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Revised February 28, 2023

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The Corradino Group
5200 NW 33rd Ave, Suite 203
Ft. Lauderdale, FL

RE: ***Paramount Palm Beach
Traffic Impact Evaluation
Palm Beach, Florida
Kimley-Horn #241020000***

Dear Eric:

Kimley-Horn and Associates, Inc. has been retained to perform a traffic impact evaluation for the proposed redevelopment of the site located at 139 North County Road in Palm Beach, Florida (see Figure 1). The Parcel Control Number (PCN) for the project site is 50-43-43-15-09-000-0140. Included in this evaluation are analyses that were previously prepared to determine compliance with the Traffic Performance Standards (TPS) of Palm Beach County, as defined in Article 12 of the County's Unified Land Development Code (ULDC). Further analysis has been included to address the following additional evaluations requested by the Town of Palm Beach:

- Intersection operational analyses
- Driveway analyses
- A buildout date of 2027 has been assumed for the purposes of this evaluation.

The site currently contains 9,683 square feet of general retail space, 14,745 square feet of general office space, and a 2,205 square foot place of worship. The proposed plan of redevelopment includes renovating existing buildings on site and adding below-grade parking with four residential units on top on the portion of the site that currently includes surface parking. The redevelopment will result in a final program of 8,220 square feet of general retail space, 4 single family dwelling units, a 225 member private club, and a 250 seat banquet facility. The private club was assumed to generate traffic similar to that of a fine dining restaurant, and the banquet facility is only expected to generate traffic when it has been rented out for events or dinners. Both of these uses are expected to operate as private facilities and will not be open to the general public.

TRIP GENERATION DETERMINATION

A trip generation determination was prepared to determine the potential impacts of the proposed redevelopment. Trip generation rates and equations published by the Palm Beach County Traffic Division were used for the daily, AM peak hour, and PM peak hour trip generation calculations for the existing and proposed site. The proposed banquet hall does not specifically fit within the land uses provided in the Palm

Beach County Trip Generation Rates table; therefore, the trip generation rates applied to this use were determined based upon discussions with Palm Beach County Traffic Division staff.

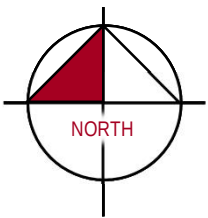
Table 1 summarizes the trip generation calculations for the proposed redevelopment. As shown in Table 1, the proposed redevelopment of the site results in 543 net new external daily trips, a decrease of 17 net new external AM peak hour trips (-16 in, -1 out), and an increase of 29 net new external PM peak hour trips (+31 in, -2 out).

Table 1: Trip Generation Calculations

Land Use	Intensity	Daily Trips	AM Peak Hour			PM Peak Hour		
			Total	In	Out	Total	In	Out
Existing Scenario >5 Years								
Strip Retail Plaza (<40k)	9.683 KSF	527	23	14	9	64	32	32
General Office (10k-250k)	14.745 KSF	160	22	19	3	21	4	17
Church/Synagogue	2.205 KSF	17	1	1	0	1	0	1
	Subtotal	704	46	34	12	86	36	50
Pass-By Capture								
Strip Retail Plaza (<40k)	63.0%	332	14	9	5	40	20	20
General Office (10k-250k)	10.0%	16	2	2	0	2	0	2
Church/Synagogue	5.0%	1	0	0	0	0	0	0
	Subtotal	349	16	11	5	42	20	22
Driveway Volumes		704	46	34	12	86	36	50
Net New External Trips		355	30	23	7	44	16	28
Proposed Scenario								
Strip Retail Plaza (<40k)	8.220 KSF	448	19	11	8	54	27	27
Single Family Detached	4 DU	40	3	1	2	4	3	1
Fine Dining Restaurant*	225 Seats	585	5	3	2	63	42	21
Banquet Hall**	250 Seats	650	0	0	0	25	17	8
	Subtotal	1,723	27	15	12	146	89	57
Pass-By Capture								
Strip Retail Plaza (<40k)	63.0%	282	12	7	5	34	17	17
Single Family Detached	0.0%	0	0	0	0	0	0	0
Fine Dining Restaurant*	44.0%	257	2	1	1	28	18	10
Banquet Hall **	44.0%	286	0	0	0	11	7	4
	Subtotal	825	14	8	6	73	42	31
Driveway Volumes		1,723	27	15	12	146	89	57
Net New External Trips		898	13	7	6	73	47	26
Proposed Net External Trips-Existing Net New External Trips		543	-17	-16	-1	29	31	-2
Radius of Development Influence:		0.5 miles						
Land Use	Daily	AM Peak Hour		PM Peak Hour		Pass By		
Strip Retail Plaza (<40k)	54.45 trips/1,000 sf	2.36 trips/1,000 sf (60% in, 40% out)		6.59 trips/1,000 sf (50% in, 50% out)		63.0%		
General Office (10k-250k)	10.84 trips/1,000 sf	1.52 trips/1,000 sf (88% in, 12% out)		1.44 trips/1,000 sf (17% in, 83% out)		10.0%		
Church/Synagogue	7.6 trips/1,000 sf	0.33 trips/1,000 sf (62% in, 38% out)		0.49 trips/1,000 sf (47% in, 53% out)		5.0%		
Single Family Detached	10 trips/DU	0.7 trips/DU (26% in, 74% out)		0.94 trips/DU (63% in, 37% out)		0.0%		
Fine Dining Restaurant *	2.6 trips/seat	0.02 trips/seat (50% in, 50% out)		.28 trips/seat (67% in, 33% out)		44.0%		
Banquet Hall **	2.6 trips/seat	0.0 trips/seat (50% in, 50% out)		.1 trips/seat (67% in, 33% out)		44.0%		

*Trip generation rates based on seats per ITE Land Use 931.

**Trip generation rates based on discussions with Palm Beach County Traffic Engineering Division.



LEGEND



Site Location



Project Traffic %

FIGURE 1

Paramount Palm Beach

KH #241020000

Site Location

Kimley»Horn

SIGNIFICANCE ANALYSIS

Based on the traffic generation for this site, it was determined that the radius of developmental influence (RDI) for this project is one half-mile. The project traffic was distributed across the links within the RDI based on the distribution illustrated in Figure 1 to determine if the addition of project traffic will significantly impact the roadway links, based on Palm Beach County TPS methodology.

Table 2 and Table 3 summarize the AM peak hour and PM peak hour significance analyses, respectively.

Table 2: Test 1 AM Peak Hour Significance Analysis

ROADWAY	FROM	TO	EXISTING NUMBER OF LANES	LOS D GENERAL SVC. VOLUME	PROJECT % ASSIGNMENT	NB/EB IN/OUT?	PROJECT TRIPS					
							AM PEAK HOUR					
							TRIPS		% IMPACT			
							NB/EB	SB/WB	NB/EB	Sig?	SB/WB	Sig?
Royal Poinciana Way	Flagler Drive	N County Road	4L	1,680	30%	i	-5	0	-0.30%	No	0.00%	No
Sunset Avenue	Bradley Place	N County Road	2L	810	5%	i	-1	0	-0.12%	No	0.00%	No
Sunrise Avenue	Bradley Place	N County Road	2L	810	5%	i	-1	0	-0.12%	No	0.00%	No
Sunrise Avenue	N County Road	N Ocean Boulevard	2L	810	10%	i	-2	0	-0.25%	No	0.00%	No
N County Road	Barlton Avenue	Royal Poinciana Way	4L	1,860	20%	i	-3	0	-0.16%	No	0.00%	No
N County Road	Royal Poinciana Way	Sunset Avenue	4L	1,860	50%	i	-8	-1	-0.43%	No	-0.05%	No
N County Road	Sunset Avenue	Sunrise Avenue	4L	1,860	30%	i	-5	0	-0.27%	No	0.00%	No
N County Road	Sunrise Avenue	Country Club Road	4L	1,860	30%	o	0	-5	0.00%	No	-0.27%	No
Cocoanut Row	Barlton Avenue	Royal Poinciana Way	2L	810	5%	i	-1	0	-0.12%	No	0.00%	No
Bradley Place	Royal Poinciana Way	Sunset Avenue	2L	810	5%	i	-1	0	-0.12%	No	0.00%	No
Bradley Place	Sunset Avenue	Sunrise Avenue	2L	810	5%	i	-1	0	-0.12%	No	0.00%	No
Bradley Place	Sunrise Avenue	Wells Road	2L	810	5%	o	0	-1	0.00%	No	-0.12%	No

Table 3: Test 1 PM Peak Hour Significance Analysis

ROADWAY	FROM	TO	EXISTING NUMBER OF LANES	LOS D GENERAL SVC. VOLUME	PROJECT % ASSIGNMENT	NB/EB IN/OUT?	PROJECT TRIPS					
							PM PEAK HOUR					
							TRIPS		% IMPACT			
							NB/EB	SB/WB	NB/EB	Sig?	SB/WB	Sig?
Royal Poinciana Way	Flagler Drive	N County Road	4L	1,680	30%	i	9	-1	0.54%	No	-0.06%	No
Sunset Avenue	Bradley Place	N County Road	2L	810	5%	i	2	0	0.25%	No	0.00%	No
Sunrise Avenue	Bradley Place	N County Road	2L	810	5%	i	2	0	0.25%	No	0.00%	No
Sunrise Avenue	N County Road	N Ocean Boulevard	2L	810	10%	i	3	0	0.37%	No	0.00%	No
N County Road	Barlton Avenue	Royal Poinciana Way	4L	1,860	20%	i	6	0	0.32%	No	0.00%	No
N County Road	Royal Poinciana Way	Sunset Avenue	4L	1,860	50%	i	16	-1	0.86%	No	-0.05%	No
N County Road	Sunset Avenue	Sunrise Avenue	4L	1,860	30%	i	9	-1	0.48%	No	-0.05%	No
N County Road	Sunrise Avenue	Country Club Road	4L	1,860	30%	o	-1	9	-0.05%	No	0.48%	No
Cocoanut Row	Barlton Avenue	Royal Poinciana Way	2L	810	5%	i	2	0	0.25%	No	0.00%	No
Bradley Place	Royal Poinciana Way	Sunset Avenue	2L	810	5%	i	2	0	0.25%	No	0.00%	No
Bradley Place	Sunset Avenue	Sunrise Avenue	2L	810	5%	i	2	0	0.25%	No	0.00%	No
Bradley Place	Sunrise Avenue	Wells Road	2L	810	5%	o	0	2	0.00%	No	0.25%	No

As shown in the tables above, none of the analyzed links are expected to be significantly impacted by the addition of project traffic. Therefore, no further link analysis is required.

INTERSECTION OPERATIONAL ANALYSIS

As requested by the Town of Palm Beach, the surrounding intersections to the site have been analyzed to determine the impacts of the proposed development on the surrounding road network. The intersection analysis includes LOS and delay analyses for the following intersections:

1. Sunrise Avenue & County Road
2. Sunset Avenue & County Road
3. Royal Poinciana Way & County Road

The three study intersections were analyzed for the following three scenarios: Existing Year (2022), Background Year (2027), and Future Total (2027).

Additionally, the site is proposed to have access on Sunrise Avenue and Sunset Avenue. Therefore, the Future Total (2027) analysis scenario also includes an evaluation of these driveways at proposed buildout of the project

Existing count data was collected on Tuesday November 29, 2022 during the AM and PM peak hours to determine a baseline for traffic operations within the vicinity of the site. The existing data collected was assumed to be collected during peak season and therefore no peak season correction factor was applied. Existing count data is included in the Appendix, for reference.

Existing traffic count data was grown of a five year period using a compounding annual growth rate of 1% to develop Background Year (2027) traffic volumes. Furthermore, project traffic data was added to the Background Year (2027) traffic volumes to develop Future Total (2027) traffic volumes. Credit was not taken for the traffic generated by the existing site in the intersection analysis to provide a conservative approach.

EXISTING YEAR (2022) ANALYSIS

Table 4 summarizes the results of the existing year *Synchro* analysis. HCM 2000 methodology was used to develop LOS and delay at each of the study intersections due to the presence of shared turn lanes. As illustrated in this table the intersections currently operate at LOS C or better during the AM and PM peak hours.

Table 4: Existing Year (2022) *Synchro* Summary

#	Intersection	Control Type	Movement	AM Peak Hour		PM Peak Hour	
				Delay (s)	LOS	Delay (s)	LOS
1	Sunrise Avenue & County Road	Signalized	EB	30.8	C	29.0	C
			WB	19.7	B	17.7	B
			NB	14.0	B	13.3	B
			SB	8.2	A	18.8	B
			Overall	14.5	B	18.1	B
2	Sunset Avenue & County Road	Signalized	EB	33.4	C	30.7	C
			WB	33.1	C	30.6	C
			NB	3.0	A	3.5	A
			SB	2.2	A	3.7	A
			Overall	5.1	A	6.7	A
3	Royal Poinciana Way & County Road	Signalized	EB	27.4	C	32.1	C
			WB	36.6	D	36.6	D
			NB	10.0	B	12.8	B
			SB	20.5	C	26.8	C
			Overall	18.8	B	24.5	C

BACKGROUND YEAR (2027) ANALYSIS

The Background Year (2027) scenario was analyzed to develop future baseline operations for the surrounding area based on existing count data, and the addition of ambient background growth. Volume development sheets are included in the Appendix, for reference.

Table 5 summarizes the results of the background year *Synchro* analysis. HCM 2000 methodology was used to develop LOS and delay at each of the study intersections due to the presence of shared turn lanes. As illustrated in this table the intersections are expected operate at LOS C or better during the AM and PM peak hours.

Table 5: Background Year (2027) *Synchro* Summary

#	Intersection	Control Type	Movement	AM Peak Hour		PM Peak Hour	
				Delay (s)	LOS	Delay (s)	LOS
1	Sunrise Avenue & County Road	Signalized	EB	30.9	C	29.2	C
			WB	19.5	B	17.7	B
			NB	15.3	B	14.9	B
			SB	8.5	A	20.5	C
			Overall	15.4	B	19.4	B
2	Sunset Avenue & County Road	Signalized	EB	31.9	C	30.4	C
			WB	31.6	C	30.4	C
			NB	4.0	A	3.6	A
			SB	2.9	A	3.8	A
			Overall	5.9	A	6.7	A
3	Royal Poinciana Way & County Road	Signalized	EB	28.2	C	33.2	C
			WB	37.6	D	38.1	D
			NB	10.2	B	13.2	B
			SB	20.5	C	27.2	C
			Overall	19.1	B	25.1	C

FUTURE YEAR (2027) ANALYSIS

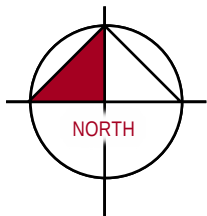
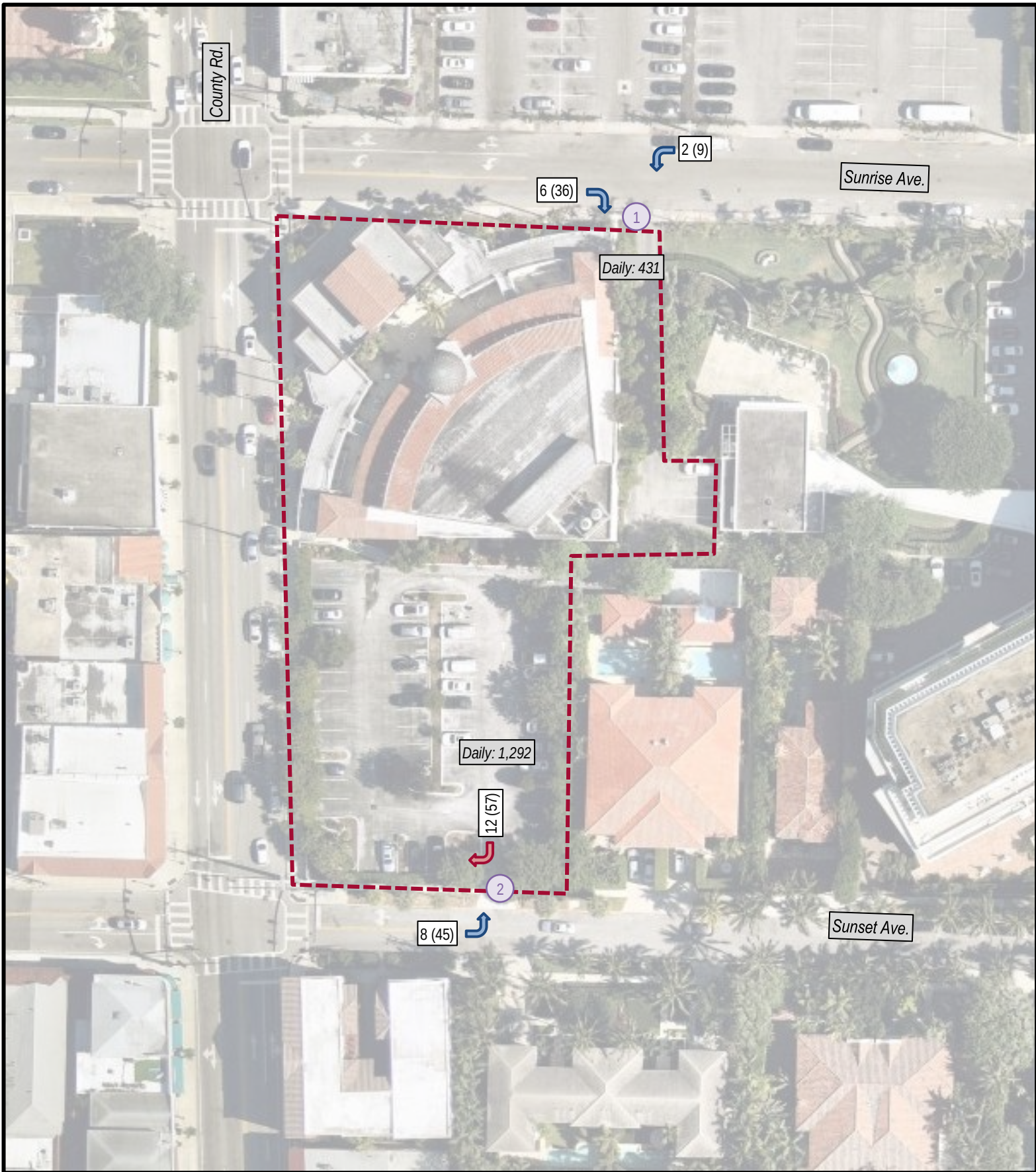
The Future Year (2027) scenario was analyzed to develop future operations for the surrounding area and project driveways based on existing count data, and the addition of ambient background growth. Volume development sheets are included in the Appendix, for reference.

Table 6 summarizes the results of the future year *Synchro* analysis. HCM 2000 methodology was used to develop LOS and delay at each of the study intersections due to the presence of shared turn lanes. As illustrated in this table the intersections are expected operate at LOS C or better during the AM and PM peak hours.

Table 6: Future Year (2027) Synchro Summary

#	Intersection	Control Type	Movement	AM Peak Hour		PM Peak Hour	
				Delay (s)	LOS	Delay (s)	LOS
1	Sunrise Avenue & County Road	Signalized	EB	31.0	C	29.3	C
			WB	19.5	B	17.6	B
			NB	15.3	B	16.1	B
			SB	8.5	A	21.0	C
			Overall	15.5	B	20.0	C
2	Sunset Avenue & County Road	Signalized	EB	31.6	C	29.6	C
			WB	31.6	C	30.6	C
			NB	4.0	A	3.8	A
			SB	2.9	A	4.0	A
			Overall	6.1	A	7.5	A
3	Royal Poinciana Way & County Road	Signalized	EB	28.3	C	33.7	C
			WB	37.7	D	38.6	D
			NB	10.2	B	13.5	B
			SB	20.5	C	27.5	C
			Overall	19.2	B	25.5	C
4	Sunrise Avenue & North Driveway	Free-Flow (Inbound Only)	EB	0.0	-	0.0	-
			WB	0.1	-	0.4	-
			NB	-	-	-	-
			SB	-	-	-	-
			Overall	-	-	-	-
5	Sunset Avenue & South Driveway	Minor Street Stop-Control	EB	0.9	-	3.3	-
			WB	0.0	-	0.0	-
			NB	-	-	-	-
			SB	8.5	A	8.9	A
			Overall	-	-	-	-

As noted, the proposed project driveways were analyzed to determine the LOS and delay at the proposed access locations. Access to the site for most users is proposed to be maintained via two driveway connections; one outbound driveway on Sunset Avenue and one right-in/left-in only driveway on Sunrise Avenue. The residential users are also proposed to have a separate inbound driveway access on Sunset Avenue; however, this will carry minimal traffic volumes and also would be ingress-only; therefore, no LOS analysis was performed for this driveway. Figure 2 illustrates the expected project traffic driveway volumes for the site driveway after full buildout. The analysis indicated that both driveways would operate acceptably and that the expected queues at the driveways would not exceed 1 vehicle during the AM or PM peak hours and therefore not impede on traffic flow on the surrounding road network.



LEGEND

-  Site Location
- XX (XX) AM (PM) Peak Hour Trips
-  /  Inbound / Outbound

FIGURE 2

Paramount Palm Beach
KH #241020000
Driveway Volumes

Kimley»Horn

INTERSECTION QUEUE ANALYSIS

A detailed analysis of the signalized intersections surrounding the site was conducted to determine whether the dedicated turn lanes had sufficient queue storage to accommodate the expected 95th percentile queues in the future year scenario. *Synchro 11* software was utilized to calculate the 95th percentile queues at each intersection. The existing storage at each dedicated turn lane was compared to the results of the AM and PM peak hour queue analyses and all of the queues were found to be contained within their respective turn lanes. Table 7 summarizes the results of this analysis.

Table 7: 95th Percentile Queue Analysis

#	Intersection	Control Type	Movement	Storage (ft)	AM Peak Hour	PM Peak Hour
					95th %ile Queue (ft)	95th %ile Queue (ft)
1	Sunrise Avenue & County Road	Signalized	SBL	170	13	22
			WBL	140	36	49
2	Sunset Avenue & County Road	Signalized	EBTL	80	41	37
3	Royal Poinciana Way & County Road	Signalized	EBL	430	187	117
			WBR	230	0	0

ALTERNATIVE MODE ACCESS

N County Road is the major centralized roadway within the Town and provides connectivity north and south for the island. Therefore, this roadway likely experiences high pedestrian volumes in comparison to other streets in Town and, as such, the primary considerations for modes of alternative modes of transportation besides vehicles is related to pedestrian access. The commercial building immediately abuts the public sidewalk and includes entryways along North County Road and Sunrise Avenue that face the sidewalks along these streets, making the entrances directly accessible to pedestrians and encouraging pedestrian activity on the public sidewalk. In addition, parallel parking spaces and portions of covered arcade are proposed to be provided between the sidewalk and the travel lanes on North County Road, providing protection and comfort for pedestrians in comparison to situations where there is no buffer between the sidewalk and travel lanes.

There are no bicycle lanes on N County Road. PalmTran service is provided with limited frequency Monday through Saturday on North County Road adjacent to the site. Therefore, bus travel may be a potential alternative mode of travel for some site employees.

VALET OPERATIONAL ANALYSIS

The redeveloped site is proposed to include valet operations for the private club, commercial patrons and for the proposed event space. Following is a review of the proposed valet routing, anticipated queuing and pick-up/drop-off operations for each component.

Private Club Valet Operations + Commercial Use Patrons

The valet stand for the private club and visitors/patrons of the commercial space on site is located in the motor court area that is one level below grade. Vehicular access and circulation is illustrated in Figure 3 and is described below. The valet will be in continuous operation during the hours in which the commercial space and club are in operation.

Patron arrival: Patron vehicles will arrive via the Sunrise Avenue driveway on the north side of the site and then proceed along the east side of the property to reach the motor court below grade. At the valet stand

on the motor court level, the patron will exit the vehicle and the valet operator will proceed down the ramp to a lower parking level to park the vehicle. (see route outlined in red in Figure 3).

Patron departure: The valet operator will retrieve the patron vehicle from the lower level parking and drive through the motor court to return the vehicle to the valet stand. The patron will then retrieve the vehicle and exit the motor court level up the ramp on the east side of the property to exit onto Sunset Avenue (see route outlined in blue in Figure 3).

Queue length calculation: The anticipated queue length at the valet stand was calculated using the following assumptions and data:

Peak hour vehicles (from trip generation calculations): PM peak hour (117 vph, inbound: 69 vph, outbound: 48 vph)

Percent valet: 100%

Assumed average vehicle dwell time for passenger loading/unloading: 60 seconds / vehicle

Number of valet attendants available: 3 attendants

Calculations are provided in the attached Table A -1. As noted in that table, the 95th percentile valet queue calculations are the following:

Inbound: 2.096 vehicles

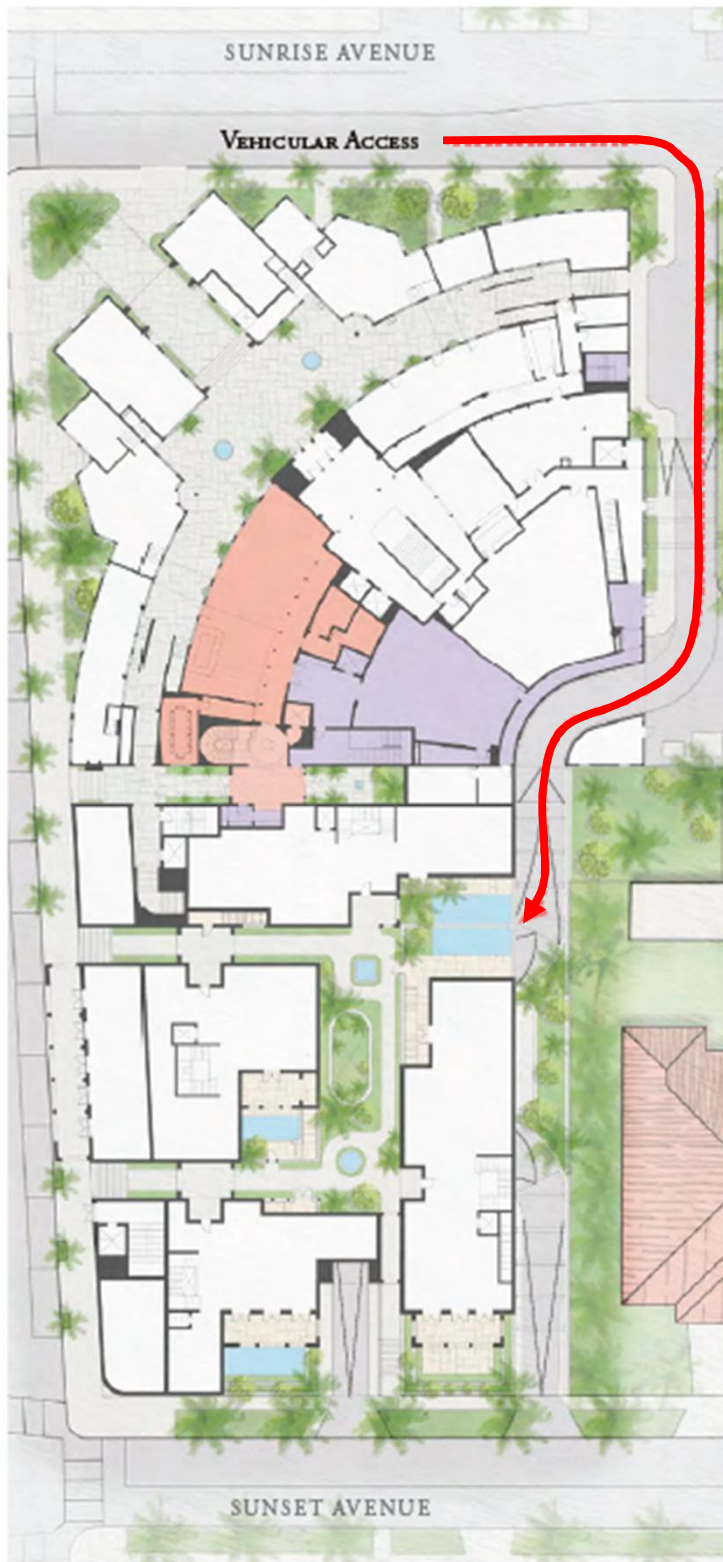
Outbound: 1.288 vehicles

Total: 3.384 vehicles

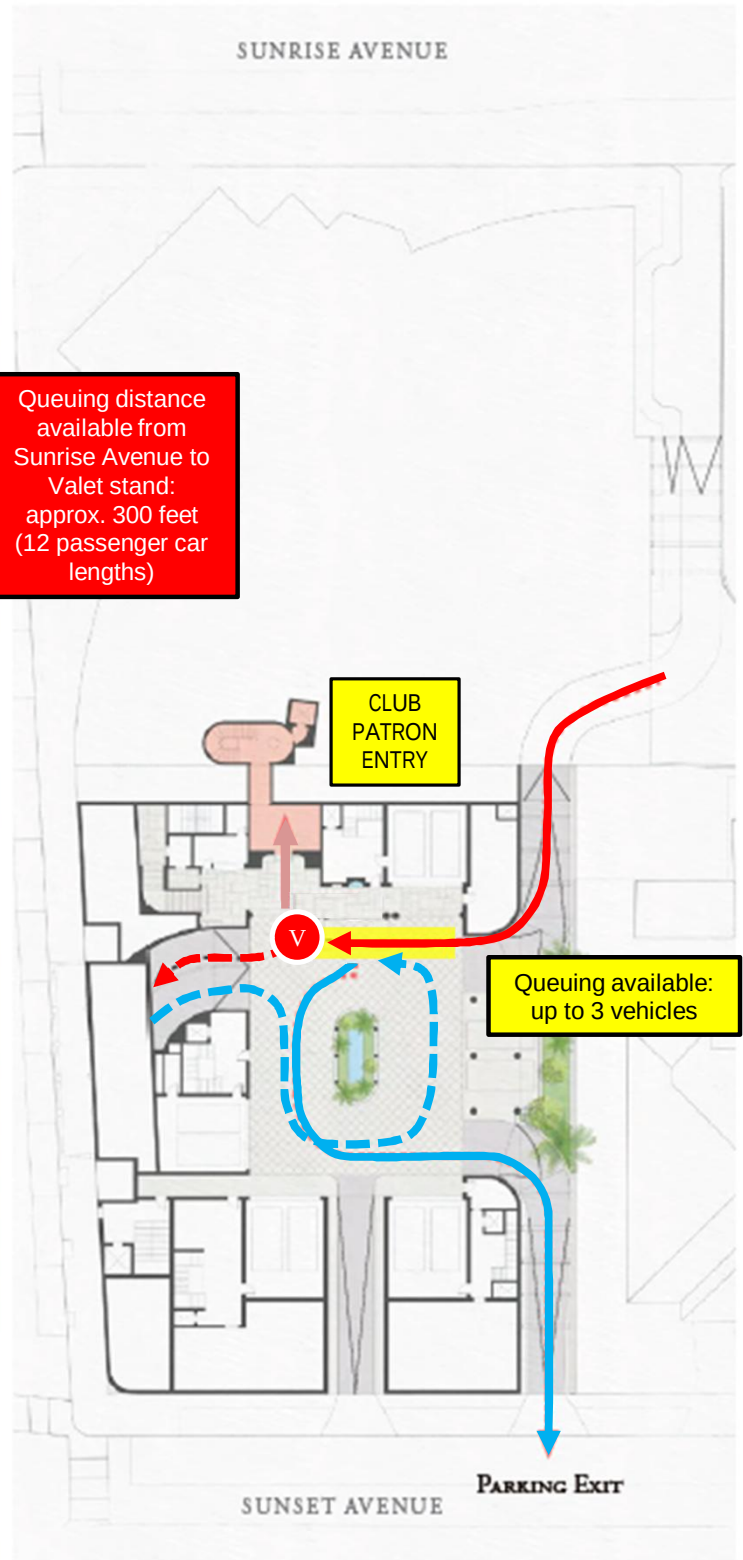
Therefore, the 95th percentile queue of vehicles staged in the club pick-up/drop-off area is anticipated to be three vehicles. The queuing area provided can accommodate 3 vehicles in within the area adjacent to the valet stand; therefore, the 95th percentile queue for the private club valet operations plus commercial use is anticipated to be contained.

As noted on Figure 3, the approximate distance from the valet stand to Sunrise Avenue is 300 feet, which is approximately 12 passenger vehicle lengths. The length of pick-up/drop-off area within the valet functional area can accommodate up to 3 vehicles.

Parking is provided in the garage levels below grade, as shown in Figure 6.



GROUND FLOOR (+12')

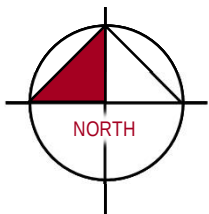


MOTOR COURT (+1')

Queuing distance available from Sunrise Avenue to Valet stand: approx. 300 feet (12 passenger car lengths)

Queuing available: up to 3 vehicles

Image source: RAMSA / Stantec



LEGEND

- Patron Inbound Route
- - - → Valet Route to Parking
- - - → Valet Route from Parking
- Patron Outbound Route

FIGURE 3

Paramount Palm Beach
KH #241020000
Private Club – Valet Operations

Event Valet Operations

The valet stand for the event space for vehicle drop-off (arrival) is proposed to be provided on the west side of the site at a valet stand is proposed to be located on North County Road. Vehicular access and circulation is illustrated in Figure 4 and is described below.

Patron arrival: Patron vehicles will arrive via the North County Road traveling in the northbound direction. Queuing will begin along the curbside in spaces marked for parallel parking. Parallel parking is proposed to be prohibited after 5 PM. Events are proposed to be restricted to have a start time of 6:30 PM or later. At the valet stand, the patron will exit the vehicle and the valet operator will proceed through the intersection with Sunrise Avenue, enter the eastern site driveway on Sunrise Avenue, then proceed to the motor court level and down the ramp to a lower parking level to park the vehicle. (see route outlined in orange in Figure 3).

Patron departure: The valet operator will retrieve the patron vehicle from the lower level parking and drive through the motor court and exit onto Sunset Avenue. The valet operator will then proceed with the vehicle to return it to patrons at a return valet stand along Sunset Avenue. The patron will then retrieve the vehicle and exit in the northbound direction by re-entering the traffic stream on North County Road (see route outlined in purple in Figure 3).

Queue length calculation: The anticipated queue length at the valet stand was calculated using the following assumptions and data:

Highest peak hour: Post-event (250 attendees; assumed vehicle occupancy: 2.5 persons/vehicle, outbound: 100 vph)

Assumed percent valet vs. self-parking: 100%

Peak hour valet volumes: Outbound: 100 vph

Assumed average vehicle dwell time for passenger loading/unloading: 75 seconds / vehicle

Number of valet attendants available: 3 attendants in the valet pick-up area during peak

Calculations are provided in the attached Table A -4. As noted in that table, the 95th percentile valet queue calculations are the following:

Outbound: 7.073 vehicles

Total: 7.073 vehicles

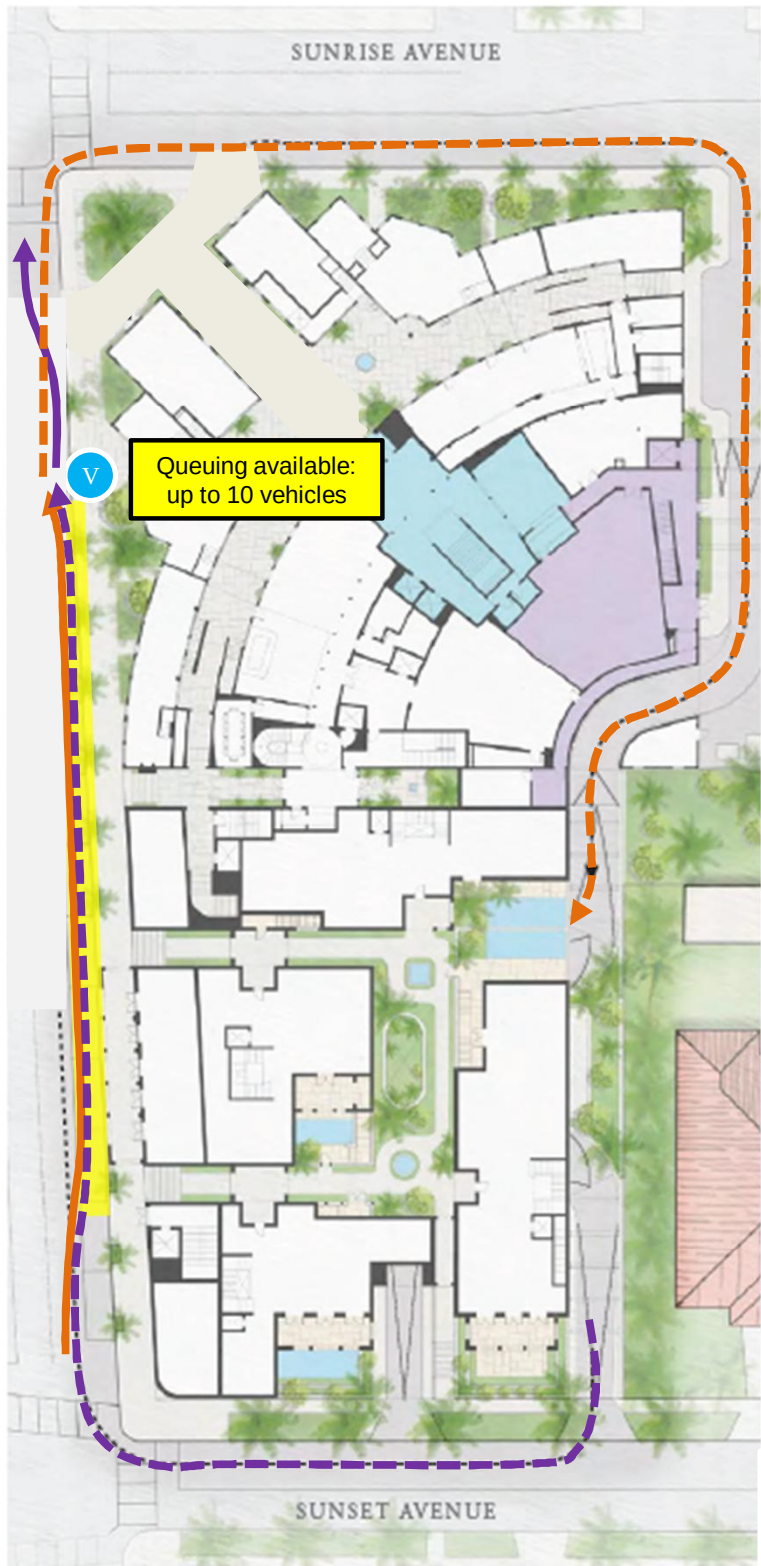
The queuing area along North County Road could accommodate up to 10 vehicles, given the 10 parallel parking spaces currently located on the east curbline of North County Road.

This functional queuing area for the proposed valet stand is noted on Figure 4. Because the proposed queuing area is along the curb on North County Road, there is no separate measure of vehicle queuing length from the public right-of-way to the valet stand. Therefore, the 95th percentile queue of vehicles staged in the valet pick-up area is anticipated to be accommodated within the curb area provided.

To address the impact of operations of the valet stand in conjunction with the intersection operation for North County Road & Sunrise Avenue, queuing observations were conducted on Friday March 31, 2023 and on Saturday, April 1, 2023 from 5:00 PM – 9:00 PM. During these observation periods, the maximum back-of-queue for northbound traffic on North County Road was recorded during each signal cycle. This was used to then determine where valet stand operations would occur in relation to the queue of vehicles for the intersection.

Based upon the observations conducted, the 95th percentile back of the northbound queue was 4 vehicles on Friday and 5 vehicles on Saturday. Using an assumption of 22 feet per vehicle, the 95th percentile intersection queue extends 88 feet from the stop bar on a Friday and 110 feet on a Saturday. Moreover, the 50th percentile queue was only 1 vehicle, which equates to a queue of 22 feet for the average intersection cycle on both Friday and Saturday. The second parallel parking space on North County Road is approximately 105 feet south of the stop bar of the intersection. Therefore, in general, locating the valet stand at this parking space will avoid interference with intersection queues for 95th percentile conditions. Figure 5 illustrates the 50th and 95th percentile queues in relation to the site and proposed valet stand. Further detail on the intersection queue observations is attached.

Parking is provided in the garage levels below grade, as shown in Figure 6.

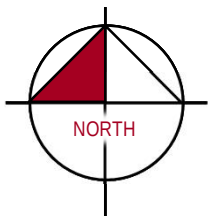


GROUND FLOOR (+12')



MOTOR COURT (+1')

Image source: RAMSA / Stantec



LEGEND

- Patron Inbound Route
- - - → Valet Route to Parking
- - - → Valet Route from Parking
- Patron Outbound Route

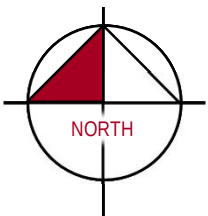
FIGURE 4

Paramount Palm Beach
KH #241020000
Event Space – Valet Operations

Kimley»Horn



LEGEND



- 50th Percentile - Friday
- 95th Percentile – Friday
- 50th Percentile - Saturday
- 95th Percentile - Saturday

FIGURE 5

Paramount - Palm Beach, FL

KH #241020000

50th & 95th Percentile Queuing

Kimley»Horn

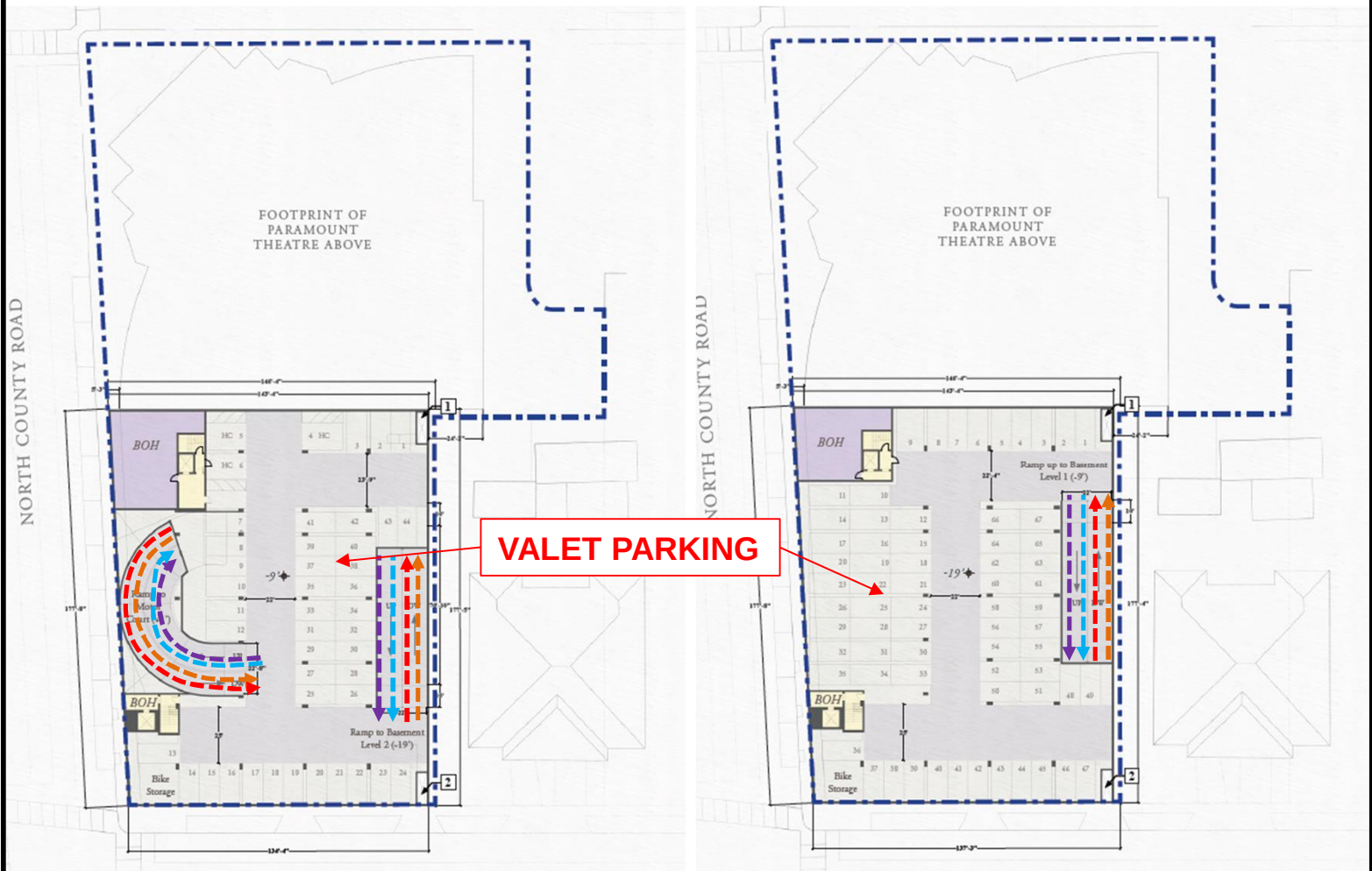
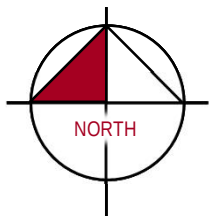


Image source: RAMSA / Stantec



LEGEND

- ▲— Valet Route to Parking
- ▲— Valet Route to Parking
- ▼— Valet Route from Parking
- ▼— Valet Route from Parking

FIGURE 6

Paramount Palm Beach
KH #241020000
Valet Parking

Kimley»Horn

CONCLUSION

Kimley-Horn and Associates, Inc. has prepared a traffic study to evaluate the potential impact of redevelopment for the project site located at 139 North County Road in Palm Beach, Florida. The site currently contains 9,683 square feet of general retail space, 14,745 square feet of general office space, and a 2,205 square foot place of worship. The proposed plan of redevelopment includes renovating the existing uses on site and will result in a final development program of 8,220 square feet of general retail space, 4 single family dwelling units, a 225-member private club, and a 250 seat banquet facility.

As shown in the analysis, the site meets the TPS requirements defined in Article 12 of the Palm Beach County Unified Land Development Code, and the intersections meet the Town's LOS standards.

In addition, a valet operations evaluation was conducted for both the club space and the event space. The queuing area provided is anticipated to accommodate the demand both for the club and also before and after events.

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

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

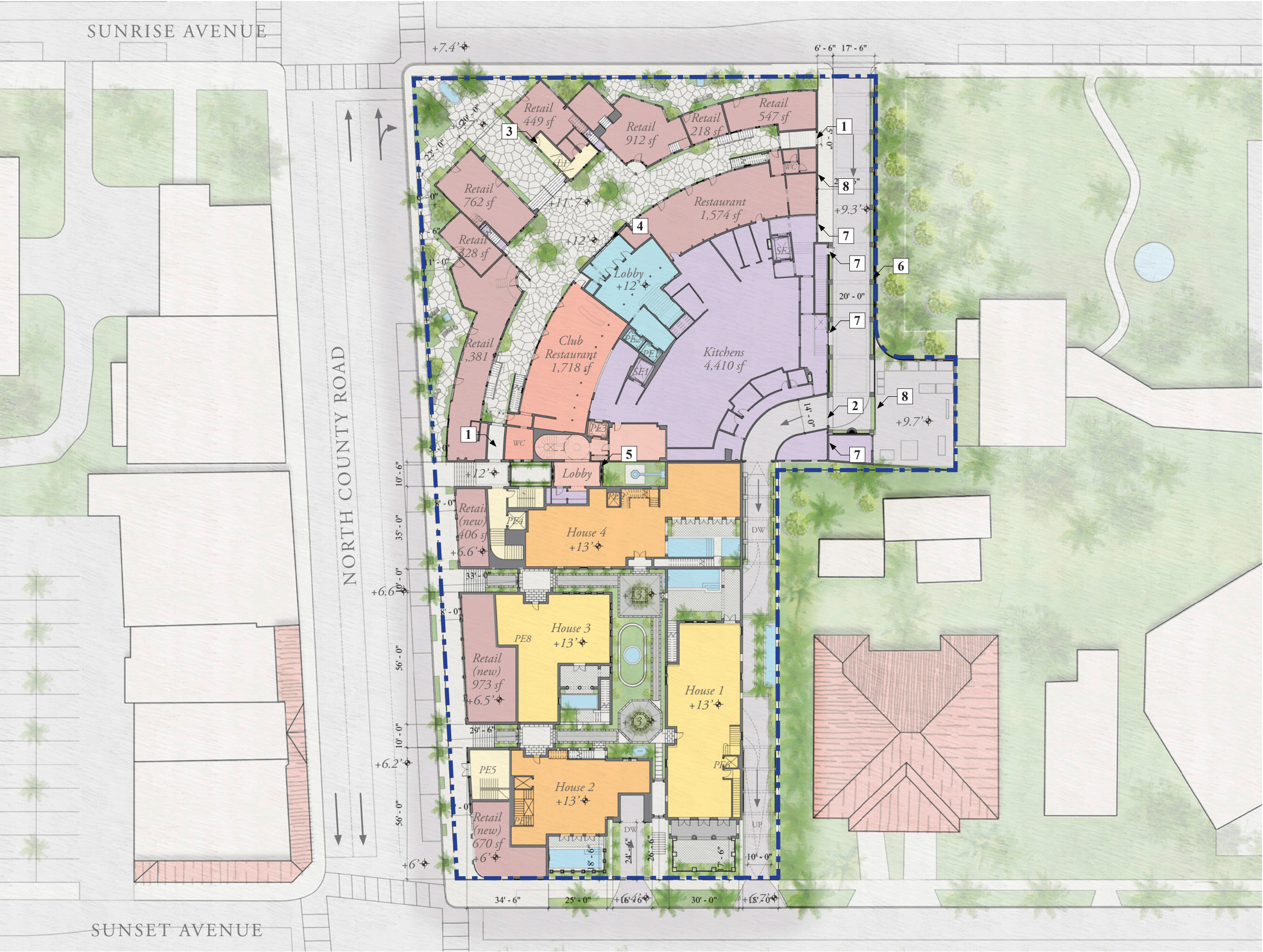
Adam B. Kerr, P.E.
Transportation Engineer

Florida Registration
Number 64773
Registry No. 35106

Attachments

k:\wpb_tptol\2410\241020000 - paramount palm beach\tps\2023-06-28 paramount palm beach traffic.docx

APPENDIX



LEGEND

- RETAIL
- CIRCULATION
- CLUB
- CLUB CIRCULATION
- EVENT SPACE
- SERVICE/BOH
- HOUSES

NOTES

GROUND FLOOR SF TOTALS:

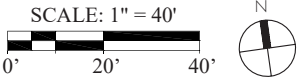
Existing Retail: 4,597 sf
New Retail: 3,623 sf
Club: 2,597 sf
Event Space: 1,422 sf
BOH: 6,607 sf

House 1: 2,415 sf
House 2: 1,673 sf
House 3: 1,704 sf
House 4: 2,359 sf

TOTAL: 26,997 SF

KEY CHANGES TO THEATRE:

1. Widen portals
2. Access to parking
3. ADA access to patio
4. Reintroduce historic front doors (*sheet D-10*)
5. Club lobby connection and garden (*sheet D-14*)
6. Pergola
7. New service/egress doors
8. New service gate (*sheet C-8*)



PROPOSED PLAN: GROUND FLOOR

RAMSA
ROBERT A.M. STERN ARCHITECTS

One Park Avenue, New York, NY 10016
T. (212) 967-5100

Stantec

One Biscayne Tower 1670
2 South Biscayne Boulevard Miami, FL 33131
T. (305) 482-8700
Stantec Architecture Inc. - AA26000733
Andrew W. Burnett Lic. # A698495

DRAFT

Paramount Theater
139 N COUNTY RD
PALM BEACH, FL 33480

06/30/23
SUBMISSION

C-4

Property Detail

Parcel Control Number: 50-43-43-15-09-000-0140 Location Address: 139 N COUNTY RD
 Owners: WEG PARAMOUNT LLC
 Mailing Address: 1801 CENTREPARK DR E STE 125, WEST PALM BEACH FL 33401 7428
 Last Sale: MAR-2021 Book/Page#: 32305 / 677 Price: \$14,000,000
 Property Use Code: 1200 - STORE/OFFICE/RESIDENTIAL Zoning: C-TS - COMMERCIAL TOWN SERVING (50-PALM BEACH)
 Legal Description: SUNRISE AVE ADD LTS 14 & 15 & LT 16
 (LESS NLY 107.78 FT OF ELY 83.84 FT &
 SLY 58.49 FT OF ELY 50.62 FT) FLORAL
 PARK PB2P6 LTS 164 TO 172 INC (LESS
 W 15 FT PALM BCH AVE R/W) Total SF: 35992 Acres 1.3324

2022 Values (Preliminary)

Improvement Value \$5,924,214
 Land Value \$6,649,946
 Total Market Value \$12,574,160
 Assessed Value \$12,574,160
 Exemption Amount \$0
 Taxable Value \$12,574,160

All values are as of January 1st each year.

2022 Taxes (Preliminary)

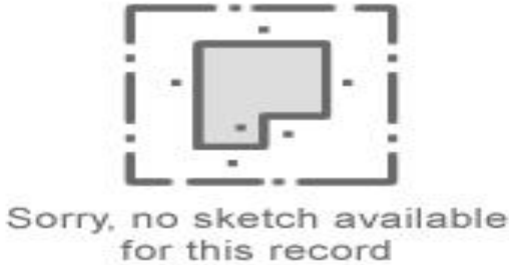
Ad Valorem \$197,395
 Non Ad Valorem \$16,558
 Total Tax \$213,953

2023 Qualified Exemptions

No Details Found

Applicants

No Details Found

Building Footprint (Building 1)**Subarea and Square Footage (Building 1)**

Description	Area	Sq. Footage
RESTAURANT	1216	
MULTIPLE TENANT RETAIL SAL	4078	
MULTIPLE TENANT RETAIL SAL	13752	
MULTIPLE TENANT RETAIL SAL	13244	
MULTIPLE TENANT RETAIL SAL	2432	
MULTIPLE TENANT RETAIL SAL	1270	
Total Square Footage :		35992

Extra Features

Description	Year Built	Unit
Paving- Asphalt	1985	18516
Patio	1985	6500

Unit may represent the perimeter, square footage, linear footage, total number or other measurement.

Structural Details (Building 1)

Description	
1. Year Built	1926
2. RETAIL MULTI OCCUP	35992

MAP

Palm Beach County Trip Generation Rates

(Must be used with traffic studies submitted to the County on or after 9/1/2022. However, immediate use is highly recommended)

Gr	Landuse	ITE Code	Unit	Daily Rate/Equation	Pass-By %	AM Peak Hour		PM Peak Hour	
						In/Out	Rate/Equation	In/Out	Rate/Equation
Industrial	General Light Industrial	110	1000 S.F.	4.87	10%	88/12	0.74	14/86	0.65
	Manufacturing	140	1000 S.F.	4.75	10%	76/24	0.68	31/69	0.74
	Warehouse	150	1000 S.F.	1.71	10%	77/23	0.17	28/72	0.18
	Mini-Warehouse/SS	151	1000 S.F.	1.45	10%	59/41	0.09	47/53	0.15
	HCF Center Warehouse - Non Sort	155	1000 S.F.	1.81	10%	81/19	0.15	39/61	0.16
Residential	Single Family Detached	210	Dwelling Unit	10	0%	26/74	0.7	63/37	0.94
	Multifamily Low-Rise Housing upto 3 story (Apartment/Condo/TH)	220	Dwelling Unit	6.74	0%	24/76	0.4	63/37	0.51
	Multifamily Mid-Rise Housing 4-10 story (Apartment/Condo/TH)	221	Dwelling Unit	4.54	0%	23/77	0.37	61/39	0.39
	55+ SF Detached	251	Dwelling Unit	4.31	0%	33/67	0.24	61/39	0.30
	55+ SF Attached	252	Dwelling Unit	3.24	0%	34/66	0.2	56/44	0.25
	Congregate Care Facility	253	Dwelling Unit	2.21	0%	58/42	0.08	49/51	0.18
	Assisted Living Facility	254	Beds	2.6	0%	60/40	0.18	39/61	0.24
	Hotel	310	Rooms	7.99	10%	56/44	0.46	51/49	0.59
Ldg	Golf Course	430	Holes	30.38	5%	79/21	1.76	53/47	2.91
	Health/Fitness Club	492	1000 S.F.	32.93	5%	51/49	1.31	57/43	3.45
Institutional	Elementary School	520	Students	2.27	0%	54/46	0.74	46/54	0.16
	Middle/Junior School	522	Students	2.1	0%	54/46	0.67	48/52	0.15
	High School	525	Students	1.94	0%	68/32	0.52	48/52	0.14
	Private School (K-8)	530	Students	3.17 ^a	0%	56/44	1.01	46/54	0.26
	Private School (K-12)	532	Students	2.48	0%	63/37	0.79	43/57	0.17
	Church/Synagogue ^b	560	1000 S.F.	7.6	5%	62/38	0.32	44/56	0.49
	Day Care	565	Students	4.09	50%	53/47	0.78	47/53	0.79
	Library	590	1000 S.F.	72.05	10%	71/29	1	48/52	8.16
Med	Hospital	610	1000 S.F.	10.77	10%	67/33	0.82	35/65	0.86
	Nursing Home	620	Beds	3.06	10%	72/28	0.14	33/67	0.14
Office	General Office (10k-250k SF GFA) ⁿ	710	1000 S.F.	10.84	10%	88/12	1.52	17/83	1.44
	General Office (>250k SF GFA) ⁿ	710	1000 S.F.	$\text{Ln}(T) = 0.87 \text{Ln}(X) + 3.05$	10%	88/12	$\text{Ln}(T) = 0.86 \text{Ln}(X) + 1.16$	17/83	1.44
	Small Office Building (<=10k SF GFA)	712	1000 S.F.	14.39	10%	82/18	1.67	34/66	2.16
	Medical Office (Stand-Alone)	720	1000 S.F.	$T=42.97(X)-108.01$	10%	79/21	3.10	30/70	3.93
	Medical Office (Near Hospital)	720	1000 S.F.	31.86	10%	81/19	2.68	25/75	2.84
	Government Office	730	1000 S.F.	22.59	10%	75/25	3.34	25/75	1.71

Palm Beach County Trip Generation Rates

(Must be used with traffic studies submitted to the County on or after 9/1/2022. However, immediate use is highly recommended)

Gr	Landuse	ITE Code	Unit	Daily Rate/Equation	Pass-By %	AM Peak Hour		PM Peak Hour	
						In/Out	Rate/Equation	In/Out	Rate/Equation
Retail	Nursery (Garden Center)	817	Acre	108.1	0%	50/50	2.82	50/50	8.06
	Nursery (Wholesale)	818	Acre	19.50	0%	50/50	0.23	50/50	0.36
	Landscape Services	PBC	Acre ^e	121.70	0%	40/60	34.4	58/42	15.1
	Shop Center (>150ksf)	820	1000 S.F.	37.01	24%	62/38	0.84	48/52	3.4
	Shop Plaza (40-150ksf) w/Sup Market	821	1000 S.F.	94.49	39%	62/38	3.53	48/52	9.03
	Shop Plaza (40-150ksf) w/out Sup Market	821	1000 S.F.	67.52	39%	62/38	1.73	49/51	5.19
	Strip Retail Plaza (<40ksf)	822	1000 S.F.	54.45	63%	60/40	2.36	50/50	6.59
	Automobile Sales (New)	840	1000 S.F.	27.84	15%	73/27	1.86	40/60	2.42
	Automobile Parts Sales	843	1000 S.F.	54.57	28%	55/45	2.51	48/52	4.9
	Tire Store	848	1000 S.F.	27.69	28%	64/36	2.61	43/57	3.75
Services	Supermarket	850	1000 S.F.	93.84	36%	59/41	2.86	50/50	8.95
	Pharmacy + DT	881	1000 S.F.	108.40	50%	52/48	3.74	50/50	10.25
	Drive-In Bank	912	1000 S.F.	100.35	47%	58/42	9.95	50/50	21.01
	Fine Dining Restaurant	931	1000 S.F.	83.84	44%	50/50	0.73	67/33	7.8
	High Turnover Sit-Down Rest.	932	1000 S.F.	107.2	43%	55/45	9.57	61/39	9.05
	Fast Food Restaurant w/o DT	933	1000 S.F.	450.49	45%	58/42	43.18	50/50	33.21
	Fast Food Restaurant + DT	934	1000 S.F.	467.48	49%	51/49	44.61	52/48	33.03
	Coffee/Donut Shop w/o DT	936	1000 S.F.	441.88 ^d	45%	51/49	93.08	50/50	32.29
	Coffee/Donut Shop + DT	937	1000 S.F.	533.57	49%	51/49	85.88	50/50	38.99
	Coffee/Donut Shop + DT w/No Seat	938	DT Lanes	179	49%	50/50	39.81	50/50	15.08
	Gas Station w/Convenience Store ^e	FDOT	FP, 1000 S.F.	14.3*PM Trips	61%	50/50	Note f	50/50	12.3*FP+15.5*(X)
	Carwash (Automated) ^g	PBC	Lane	166.00	0%	50/50	11.97	50/50	13.65

a) Based on Daily to AM peak ratio for LUC 532 (Private School (K-12))

b) Weekend peak hour rate = 10.36 per 1,000 s.f. with a 48/52 directional split

c) Landscape Services acreage consists of overnight vehicle and equipment storage as well as areas (covered or uncovered) for chemicals, fertilizers, landscape materials (excluding plants) and other items needed for day-to-day operations. Not included are drive aisles, customer/employee parking, structures shared by nursery and landscape services, facilities that solely serve the onsite landscape activities or any nursery growing areas.

d) Based on Daily to PM ratio for ITE Code 937 (Coffee Donut Shop + DT)

e) FP=Fueling Position. Use both FP and Convenience Store size in estimating trips using the provided equation. Note that no internalization between the gas pumps and convenience store, as per ULDC Article 12, should be applied to estimate the net trips.

f) Use PM rates

g) Daily rate taken from PBC trip gen. study. Peak hour rates derived by applying peak to daily ratios for gas station to daily carwash rate from older ITE TGM. New PBC rate study underway.

h) Based on PBC analysis of ITE TGM data plots

Modification History

3/2/2020: Added Landscape Services, modification history, edited formatting

7/25/2022: Updated with ITE TGM Manual 11th ed information

Footnotes

Land Use: 931

Fine Dining Restaurant

Description

A fine dining restaurant is a full-service eating establishment with a typical duration of stay of at least 1 hour. A fine dining restaurant generally does not serve breakfast; some do not serve lunch; all serve dinner. This type of restaurant often requests and sometimes requires a reservation and is generally not part of a chain. A patron commonly waits to be seated, is served by wait staff, orders from a menu and pays after the meal. Some of the study sites have lounge or bar facilities (serving alcoholic beverages), but meal service is the primary draw to the restaurant. Fast casual restaurant (Land Use 930) and high-turnover (sit-down) restaurant (Land Use 932) are related uses.

Additional Data

If the fine dining restaurant has outdoor seating, its area is not included in the overall gross floor area. For a restaurant that has significant outdoor seating, the number of seats may be more reliable than GFA as an independent variable on which to establish a trip generation rate.

The sites were surveyed in the 1980s, the 1990s, and the 2010s in Alberta (CAN), California, Colorado, Florida, Indiana, Kentucky, New Jersey, and Utah.

Source Numbers

126, 260, 291, 301, 338, 339, 368, 437, 440, 976, 1053

Fine Dining Restaurant (931)

Vehicle Trip Ends vs: Seats
On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 6

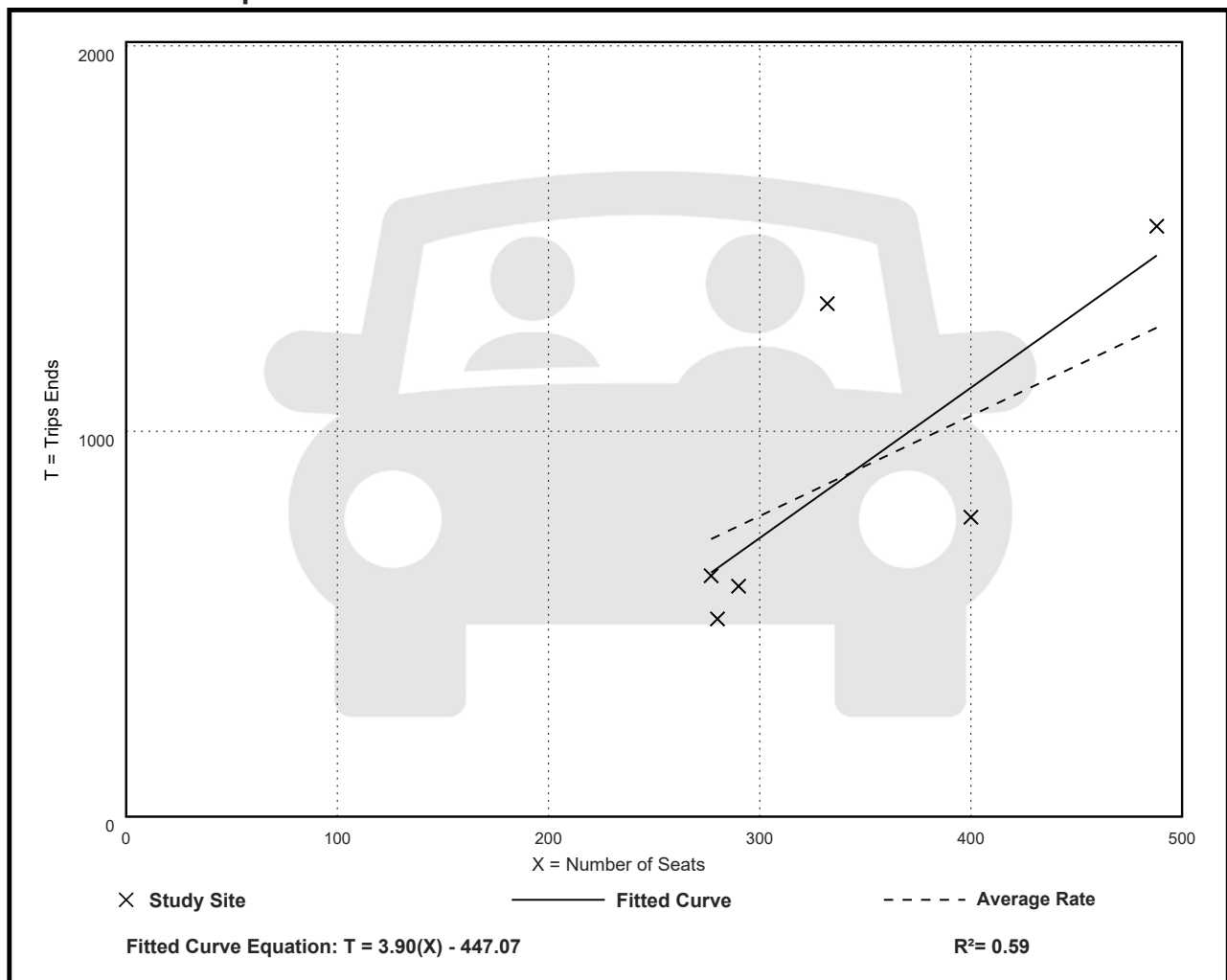
Avg. Num. of Seats: 345

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Seat

Average Rate	Range of Rates	Standard Deviation
2.60	1.83 - 4.01	0.85

Data Plot and Equation



Fine Dining Restaurant (931)

Vehicle Trip Ends vs: Seats

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 5

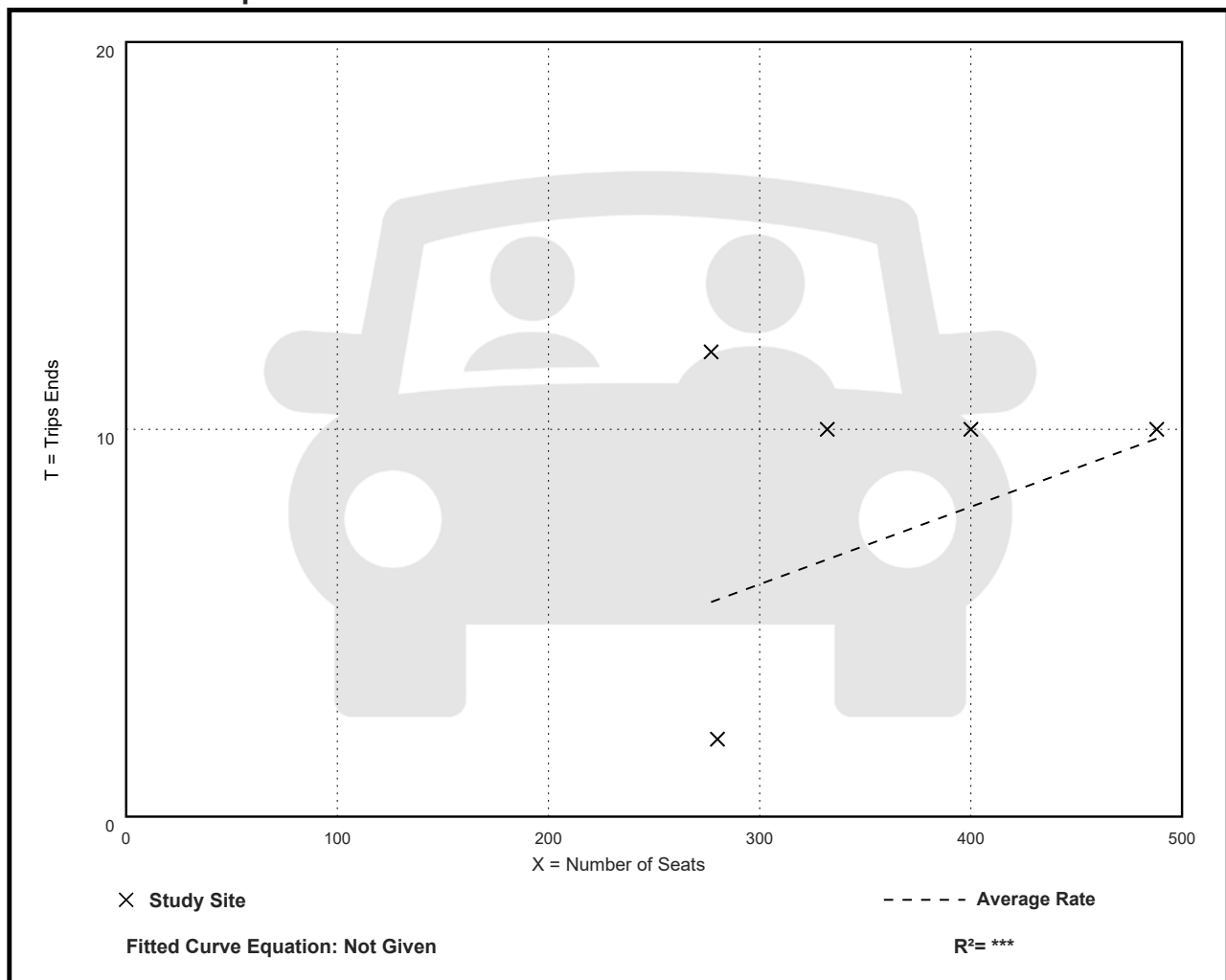
Avg. Num. of Seats: 355

Directional Distribution: Not Available

Vehicle Trip Generation per Seat

Average Rate	Range of Rates	Standard Deviation
0.02	0.01 - 0.04	0.01

Data Plot and Equation



Fine Dining Restaurant (931)

Vehicle Trip Ends vs: Seats

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 11

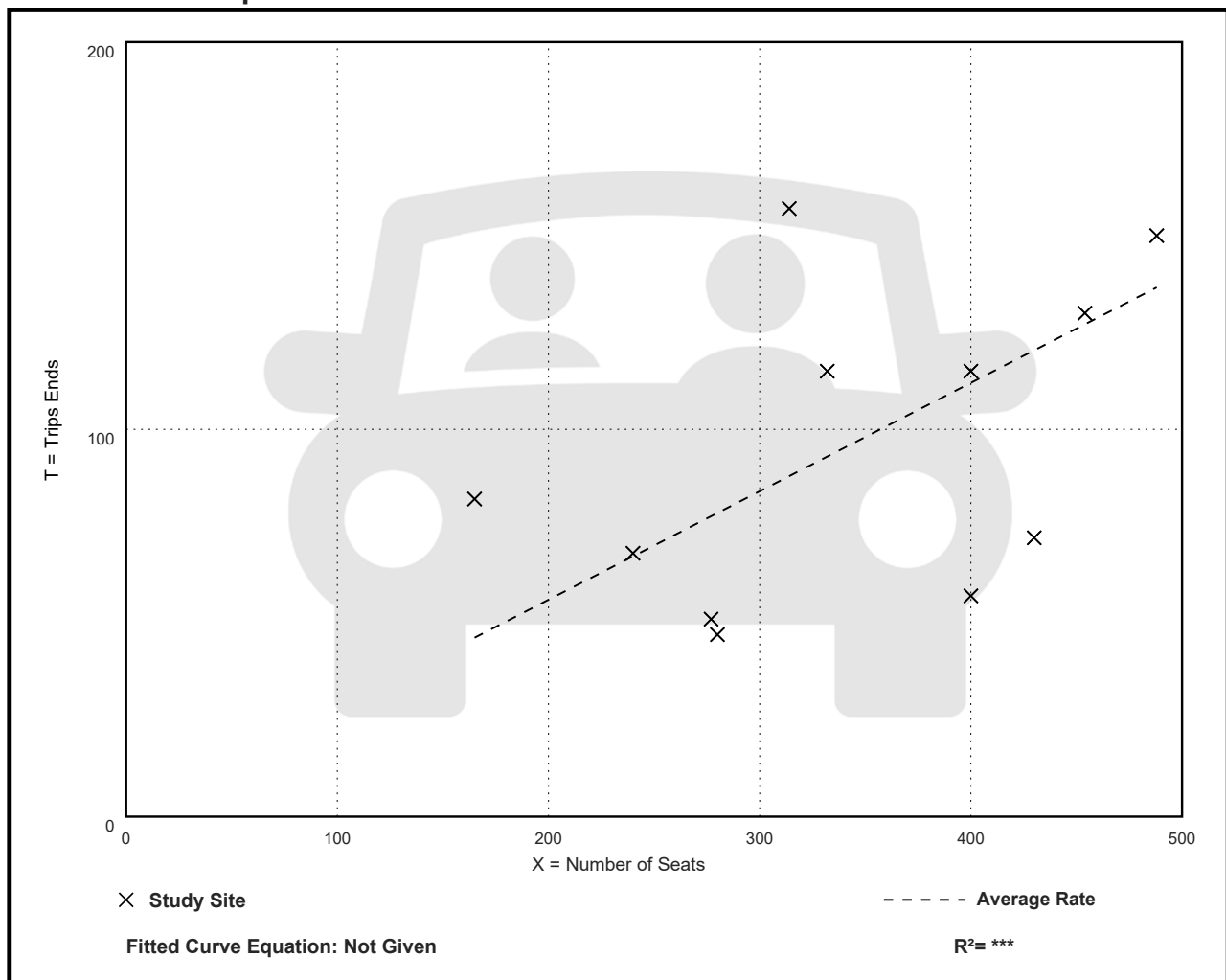
Avg. Num. of Seats: 344

Directional Distribution: 67% entering, 33% exiting

Vehicle Trip Generation per Seat

Average Rate	Range of Rates	Standard Deviation
0.28	0.14 - 0.50	0.11

Data Plot and Equation



Traffic Survey Specialists, Inc.

85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

ROYAL POINCIANA WAY & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : royal poinciana & county
Site Code : 220182
Start Date : 11/29/2022
Page No : 1

Groups Printed- LIGHT VEHICLES - HEAVY VEHICLES

	N COUNTY ROAD From North				MAIN STREET From East				N COUNTY ROAD From South				ROYAL POINCIANA WAY From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
06:00 AM	0	0	4	6	0	1	3	1	0	5	7	12	0	8	6	6	59
06:15 AM	0	0	8	8	0	2	10	0	0	3	8	18	0	11	9	3	80
06:30 AM	0	1	7	8	0	0	3	0	0	6	31	17	0	11	10	17	111
06:45 AM	0	1	6	8	0	1	7	2	0	13	44	21	1	17	16	17	154
Total	0	2	25	30	0	4	23	3	0	27	90	68	1	47	41	43	404
07:00 AM	0	0	24	20	0	2	5	2	0	20	41	27	0	19	10	12	182
07:15 AM	0	0	36	11	0	1	4	0	0	14	59	17	1	25	7	23	198
07:30 AM	0	0	40	27	0	3	4	3	0	13	64	24	3	48	20	31	280
07:45 AM	0	0	51	28	0	1	6	1	0	19	134	21	4	68	10	39	382
Total	0	0	151	86	0	7	19	6	0	66	298	89	8	160	47	105	1042
08:00 AM	0	0	39	28	0	3	6	3	0	23	129	16	2	79	16	57	401
08:15 AM	0	0	44	25	0	1	12	2	0	20	123	12	3	51	10	55	358
08:30 AM	0	0	52	28	0	0	12	2	0	39	131	5	4	78	13	38	402
08:45 AM	0	0	52	39	0	0	6	2	0	16	141	11	2	60	13	21	363
Total	0	0	187	120	0	4	36	9	0	98	524	44	11	268	52	171	1524
09:00 AM	0	0	48	46	0	2	10	1	0	20	112	10	4	115	14	42	424
09:15 AM	0	0	63	50	0	6	7	2	0	19	113	10	2	49	10	27	358
09:30 AM	0	0	60	40	0	3	9	4	0	24	111	11	6	69	16	36	389
09:45 AM	0	0	80	57	0	0	10	4	0	29	107	10	5	47	15	35	399
Total	0	0	251	193	0	11	36	11	0	92	443	41	17	280	55	140	1570
10:00 AM	0	0	46	53	0	2	10	10	0	26	97	9	4	64	14	30	365
10:15 AM	0	0	77	51	0	1	6	4	0	20	102	9	7	36	21	28	362
10:30 AM	0	0	67	53	0	2	6	2	0	30	62	7	5	42	13	32	321
10:45 AM	0	0	75	55	0	4	8	2	0	26	119	9	6	38	12	27	381
Total	0	0	265	212	0	9	30	18	0	102	380	34	22	180	60	117	1429
11:00 AM	0	0	82	56	0	4	9	2	0	25	93	5	6	38	12	32	364
11:15 AM	0	1	74	43	0	5	7	7	0	24	105	14	3	48	14	38	383
11:30 AM	0	0	89	63	0	4	11	3	0	38	119	9	2	36	10	48	432
11:45 AM	0	0	102	68	0	5	9	1	0	42	124	7	4	43	15	44	464
Total	0	1	347	230	0	18	36	13	0	129	441	35	15	165	51	162	1643
12:00 PM	0	0	82	67	0	5	17	3	0	27	106	8	2	38	7	40	402
12:15 PM	0	0	90	72	0	4	10	3	0	33	102	9	1	44	11	35	414
12:30 PM	0	0	85	63	0	4	14	5	0	28	78	8	4	32	19	45	385
12:45 PM	0	0	93	64	0	2	10	2	0	35	103	6	5	43	11	29	403
Total	0	0	350	266	0	15	51	13	0	123	389	31	12	157	48	149	1604
01:00 PM	0	0	101	75	0	4	9	4	0	38	107	4	3	42	15	34	436
01:15 PM	0	1	97	67	0	2	11	3	0	31	109	2	7	39	7	41	417
01:30 PM	0	1	77	63	0	9	12	2	0	38	78	4	3	36	11	33	367
01:45 PM	0	0	91	66	0	2	12	6	0	39	107	13	5	47	16	31	435
Total	0	2	366	271	0	17	44	15	0	146	401	23	18	164	49	139	1655
02:00 PM	0	0	101	62	0	5	14	1	0	43	92	7	2	42	15	33	417
02:15 PM	0	0	88	71	0	4	20	2	0	46	94	13	2	34	14	41	429
02:30 PM	0	1	105	78	0	6	13	6	0	37	67	11	3	42	15	46	430
02:45 PM	0	0	114	82	0	10	11	4	0	31	86	12	5	23	13	32	423
Total	0	1	408	293	0	25	58	13	0	157	339	43	12	141	57	152	1699

Traffic Survey Specialists, Inc.

85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

ROYAL POINCIANA WAY & N COUNTY ROAD
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	N COUNTY ROAD From North				MAIN STREET From East				N COUNTY ROAD From South				ROYAL POINCIANA WAY From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
03:00 PM	0	1	112	89	0	12	29	6	0	37	65	9	2	43	14	39	458
03:15 PM	0	0	86	76	0	10	22	3	0	34	101	8	5	40	5	32	422
03:30 PM	0	0	123	96	0	8	34	1	0	51	66	11	2	44	9	35	480
03:45 PM	0	0	119	91	0	7	15	3	0	37	82	8	6	27	9	25	429
Total	0	1	440	352	0	37	100	13	0	159	314	36	15	154	37	131	1789
04:00 PM	0	0	117	119	0	7	17	8	0	56	82	8	4	26	14	29	487
04:15 PM	0	0	118	76	0	15	13	5	0	42	85	4	1	21	3	33	416
04:30 PM	0	0	121	111	0	14	31	3	0	44	49	4	3	39	17	39	475
04:45 PM	0	0	88	71	0	9	15	5	0	38	90	11	5	26	10	40	408
Total	0	0	444	377	0	45	76	21	0	180	306	27	13	112	44	141	1786
05:00 PM	0	0	72	86	0	26	30	6	0	39	77	14	2	28	10	38	428
05:15 PM	0	0	70	43	0	8	16	2	0	37	59	4	5	25	8	40	317
05:30 PM	0	0	65	45	0	6	14	3	0	34	50	4	3	29	9	38	300
05:45 PM	0	0	68	48	0	3	11	2	0	43	39	3	2	25	12	52	308
Total	0	0	275	222	0	43	71	13	0	153	225	25	12	107	39	168	1353
06:00 PM	0	0	67	37	0	8	17	2	0	29	47	4	3	28	11	48	301
06:15 PM	0	0	45	30	0	5	8	2	0	25	40	3	2	25	8	33	226
06:30 PM	0	0	39	29	0	9	13	2	0	36	57	3	4	17	5	12	226
06:45 PM	0	0	45	28	0	3	16	1	0	41	46	3	1	13	2	11	210
Total	0	0	196	124	0	25	54	7	0	131	190	13	10	83	26	104	963
Grand Total	0	7	3705	2776	0	260	634	155	0	1563	4340	509	166	2018	606	1722	18461
Apprch %	0	0.1	57.1	42.8	0	24.8	60.4	14.8	0	24.4	67.7	7.9	3.7	44.7	13.4	38.2	
Total %	0	0	20.1	15	0	1.4	3.4	0.8	0	8.5	23.5	2.8	0.9	10.9	3.3	9.3	
LIGHT VEHICLES	0	6	3524	2617	0	249	563	144	0	1527	4107	484	164	1924	547	1682	17538
% LIGHT VEHICLES	0	85.7	95.1	94.3	0	95.8	88.8	92.9	0	97.7	94.6	95.1	98.8	95.3	90.3	97.7	95
HEAVY VEHICLES	0	1	181	159	0	11	71	11	0	36	233	25	2	94	59	40	923
% HEAVY VEHICLES	0	14.3	4.9	5.7	0	4.2	11.2	7.1	0	2.3	5.4	4.9	1.2	4.7	9.7	2.3	5

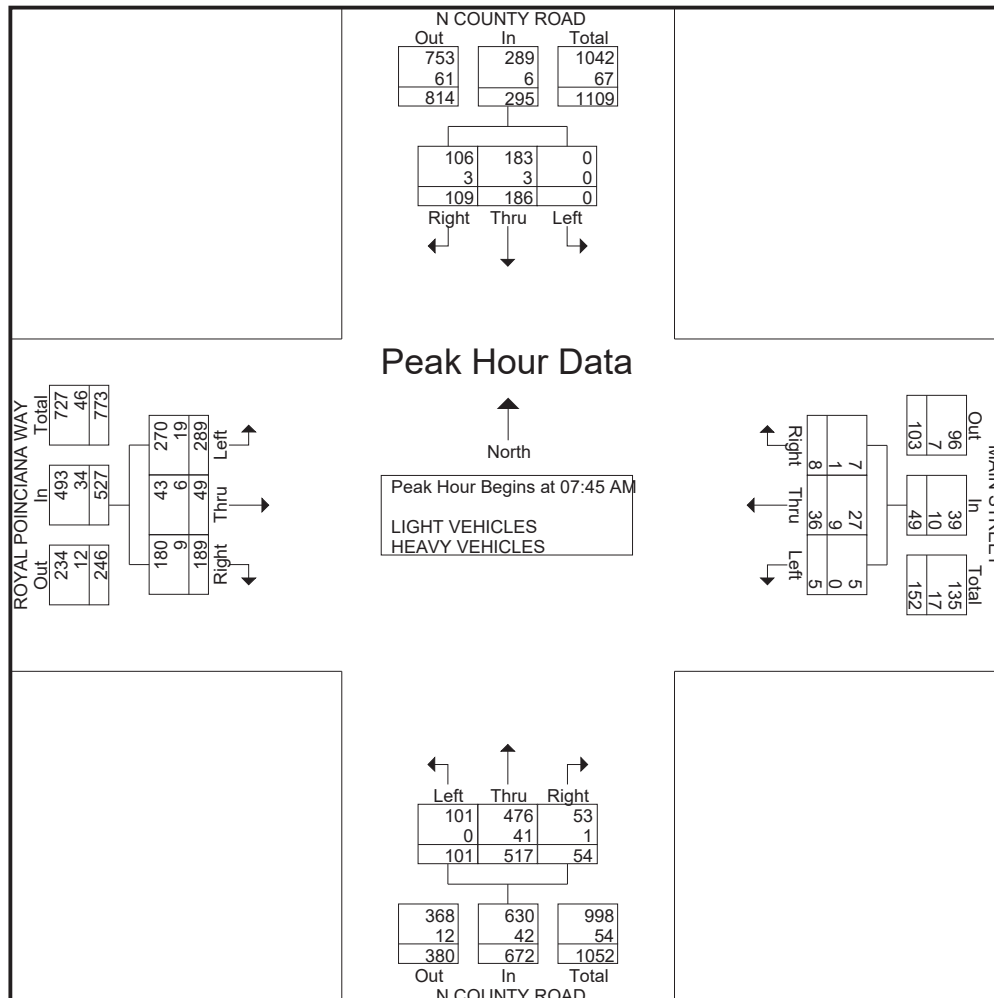
Traffic Survey Specialists, Inc.

85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

ROYAL POINCIANA WAY & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : royal poinciana & county
Site Code : 220182
Start Date : 11/29/2022
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	N COUNTY ROAD From North					MAIN STREET From East					N COUNTY ROAD From South					ROYAL POINCIANA WAY From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:45 AM																					
07:45 AM	0	0	51	28	79	0	1	6	1	8	0	19	134	21	174	4	68	10	39	121	382
08:00 AM	0	0	39	28	67	0	3	6	3	12	0	23	129	16	168	2	79	16	57	154	401
08:15 AM	0	0	44	25	69	0	1	12	2	15	0	20	123	12	155	3	51	10	55	119	358
08:30 AM	0	0	52	28	80	0	0	12	2	14	0	39	131	5	175	4	78	13	38	133	402
Total Volume	0	0	186	109	295	0	5	36	8	49	0	101	517	54	672	13	276	49	189	527	1543
% App. Total	0	0	63.1	36.9		0	10.2	73.5	16.3		0	15	76.9	8		2.5	52.4	9.3	35.9		
PHF	.000	.000	.894	.973	.922	.000	.417	.750	.667	.817	.000	.647	.965	.643	.960	.813	.873	.766	.829	.856	.960
LIGHT VEHICLES																					
% LIGHT VEHICLES	0	0	98.4	97.2	98.0	0	100	75.0	87.5	79.6	0	100	92.1	98.1	93.8	100	93.1	87.8	95.2	93.5	94.0
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	1.6	2.8	2.0	0	0	25.0	12.5	20.4	0	0	7.9	1.9	6.3	0	6.9	12.2	4.8	6.5	6.0



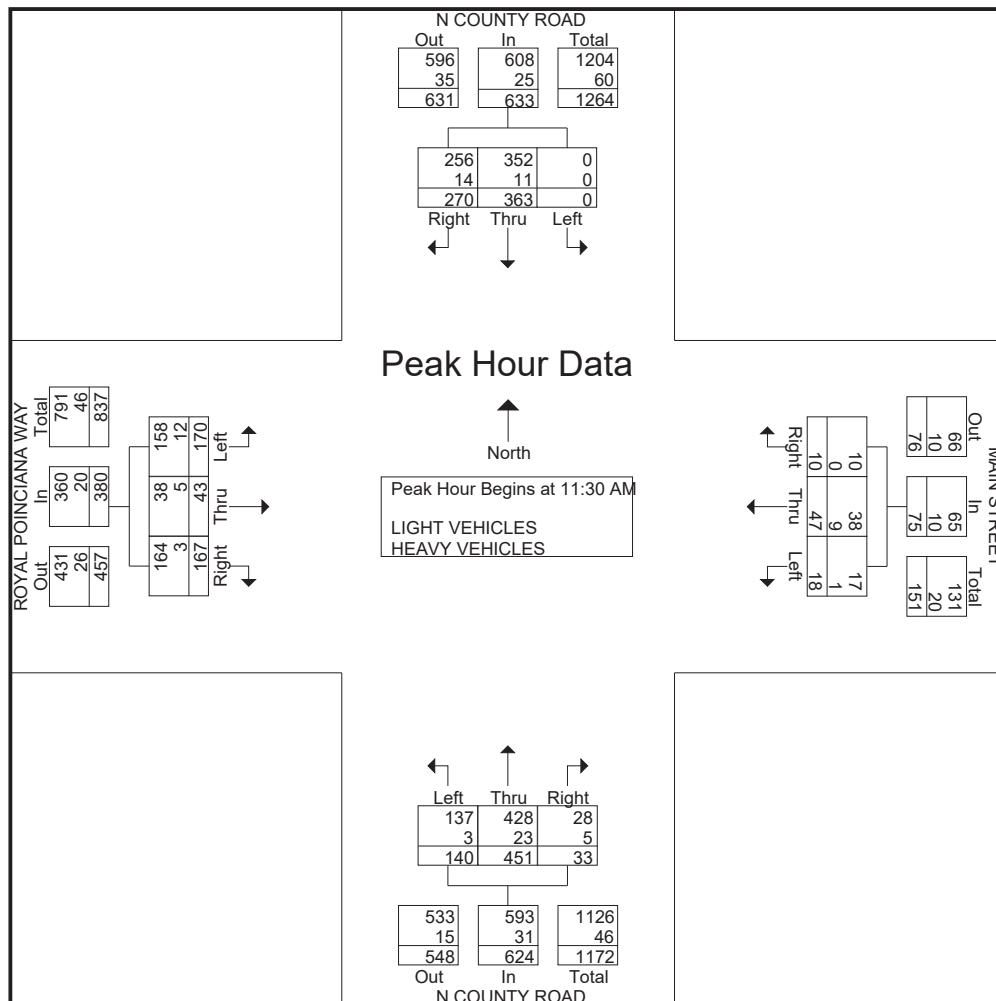
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ROYAL POINCIANA WAY & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : royal poinciana & county
Site Code : 220182
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	N COUNTY ROAD From North					MAIN STREET From East					N COUNTY ROAD From South					ROYAL POINCIANA WAY From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 11:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:30 AM																					
11:30 AM	0	0	89	63	152	0	4	11	3	18	0	38	119	9	166	2	36	10	48	96	432
11:45 AM	0	0	102	68	170	0	5	9	1	15	0	42	124	7	173	4	43	15	44	106	464
12:00 PM	0	0	82	67	149	0	5	17	3	25	0	27	106	8	141	2	38	7	40	87	402
12:15 PM	0	0	90	72	162	0	4	10	3	17	0	33	102	9	144	1	44	11	35	91	414
Total Volume	0	0	363	270	633	0	18	47	10	75	0	140	451	33	624	9	161	43	167	380	1712
% App. Total	0	0	57.3	42.7		0	24	62.7	13.3		0	22.4	72.3	5.3		2.4	42.4	11.3	43.9		
PHF	.000	.000	.890	.938	.931	.000	.900	.691	.833	.750	.000	.833	.909	.917	.902	.563	.915	.717	.870	.896	.922
LIGHT VEHICLES																					
% LIGHT VEHICLES	0	0	97.0	94.8	96.1	0	94.4	80.9	100	86.7	0	97.9	94.9	84.8	95.0	100	92.5	88.4	98.2	94.7	95.0
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	3.0	5.2	3.9	0	5.6	19.1	0	13.3	0	2.1	5.1	15.2	5.0	0	7.5	11.6	1.8	5.3	5.0



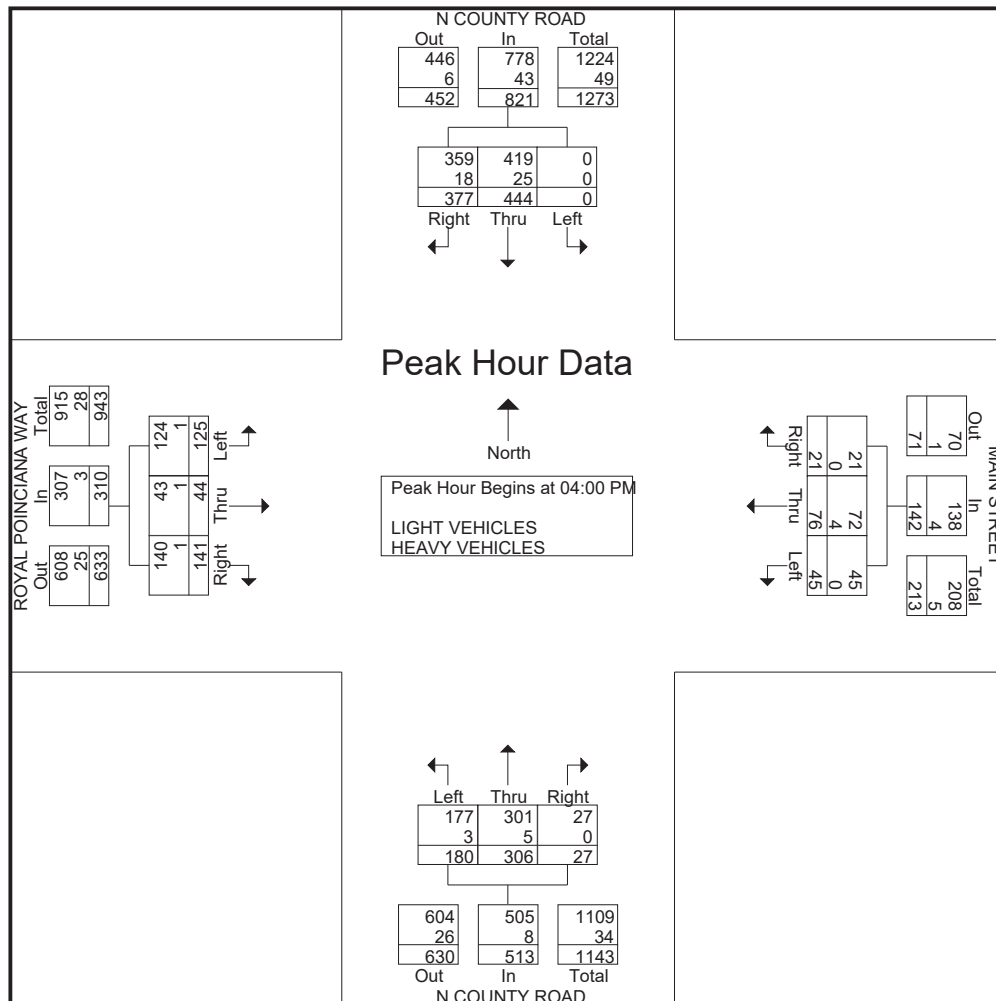
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ROYAL POINCIANA WAY & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : royal poinciana & county
Site Code : 220182
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	N COUNTY ROAD From North					MAIN STREET From East					N COUNTY ROAD From South					ROYAL POINCIANA WAY From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:00 PM																					
04:00 PM	0	0	117	119	236	0	7	17	8	32	0	56	82	8	146	4	26	14	29	73	487
04:15 PM	0	0	118	76	194	0	15	13	5	33	0	42	85	4	131	1	21	3	33	58	416
04:30 PM	0	0	121	111	232	0	14	31	3	48	0	44	49	4	97	3	39	17	39	98	475
04:45 PM	0	0	88	71	159	0	9	15	5	29	0	38	90	11	139	5	26	10	40	81	408
Total Volume	0	0	444	377	821	0	45	76	21	142	0	180	306	27	513	13	112	44	141	310	1786
% App. Total	0	0	54.1	45.9		0	31.7	53.5	14.8		0	35.1	59.6	5.3		4.2	36.1	14.2	45.5		
PHF	.000	.000	.917	.792	.870	.000	.750	.613	.656	.740	.000	.804	.850	.614	.878	.650	.718	.647	.881	.791	.917
LIGHT VEHICLES																					
% LIGHT VEHICLES	0	0	94.4	95.2	94.8	0	100	94.7	100	97.2	0	98.3	98.4	100	98.4	100	99.1	97.7	99.3	99.0	96.8
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	5.6	4.8	5.2	0	0	5.3	0	2.8	0	1.7	1.6	0	1.6	0	0.9	2.3	0.7	1.0	3.2



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ROYAL POINCIANA WAY & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : royal poinciana & county
Site Code : 220182
Start Date : 11/29/2022
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Groups Printed- BICYCLES ON THE ROAD

	N COUNTY ROAD From North				MAIN STREET From East				N COUNTY ROAD From South				ROYAL POINCIANA WAY From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
06:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2
06:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 AM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	4
06:45 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	4
Total	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	5	10
07:00 AM	0	0	1	0	0	0	0	0	0	0	5	0	0	0	0	0	6
07:15 AM	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	3
07:30 AM	0	0	1	0	0	0	0	0	0	0	25	0	0	0	0	0	26
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	4	0	0	0	0	0	0	0	31	0	0	0	0	0	35
08:00 AM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	3
08:15 AM	0	0	1	1	0	0	0	0	0	0	5	0	0	0	1	4	12
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	1	3	0	0	0	0	0	0	2	0	0	0	1	1	8
Total	0	0	3	4	0	0	0	0	0	0	8	0	0	0	2	6	23
09:00 AM	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	5
09:15 AM	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	5
09:30 AM	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	4
09:45 AM	0	0	2	0	0	0	0	0	0	2	1	0	0	0	0	0	5
Total	0	0	11	0	0	0	0	0	0	2	6	0	0	0	0	0	19
10:00 AM	0	0	5	0	0	0	0	0	0	0	3	0	0	0	0	0	8
10:15 AM	0	0	2	2	0	0	0	0	0	0	2	0	0	0	0	0	6
10:30 AM	0	0	2	1	0	0	0	0	0	0	8	0	0	0	0	0	11
10:45 AM	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Total	0	0	9	3	0	0	0	0	0	0	17	0	0	0	0	0	29
11:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	3
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	3
11:45 AM	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	3
Total	0	0	2	0	0	0	1	0	0	0	1	0	0	1	0	4	9
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	3
12:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	0	0	0	0	0	0	2	0	0	2	2	0	1	0	0	7
Total	0	0	0	1	0	0	1	2	0	0	3	2	0	1	0	1	11
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
01:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
01:30 PM	0	0	0	0	0	0	0	1	0	0	4	0	0	0	0	0	5
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	1	0	0	4	0	0	0	0	1	7
02:00 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
02:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	4

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ROYAL POINCIANA WAY & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : royal poinciana & county
Site Code : 220182
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Groups Printed- BICYCLES ON THE ROAD

	N COUNTY ROAD From North				MAIN STREET From East				N COUNTY ROAD From South				ROYAL POINCIANA WAY From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	1	5
03:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
03:45 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
Total	0	0	5	1	0	0	0	0	0	0	1	0	0	0	0	1	8
04:00 PM	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	3
04:15 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
04:30 PM	0	0	5	0	0	0	0	0	0	0	2	0	0	0	0	1	8
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	6	0	0	0	0	0	0	1	6	0	0	0	0	1	14
05:00 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	3
05:15 PM	0	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	6
05:30 PM	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	3
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	6	0	0	0	0	0	0	0	5	0	0	0	0	1	12
06:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	3
Grand Total	0	0	52	9	0	0	3	3	0	3	88	2	0	2	2	20	184
Apprch %	0	0	85.2	14.8	0	0	50	50	0	3.2	94.6	2.2	0	8.3	8.3	83.3	
Total %	0	0	28.3	4.9	0	0	1.6	1.6	0	1.6	47.8	1.1	0	1.1	1.1	10.9	

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Groups Printed- PEDESTRIANS & BIKES

	N COUNTY ROAD From North				MAIN STREET From East				N COUNTY ROAD From South				ROYAL POINCIANA WAY From West				
Start Time	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Int. Total
06:00 AM	0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	6
06:15 AM	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	4
06:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
06:45 AM	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	5
Total	2	0	0	0	7	0	0	0	2	0	0	0	5	0	0	0	16
07:00 AM	3	0	0	0	8	0	0	0	2	0	0	0	2	0	0	0	15
07:15 AM	2	0	0	0	5	0	0	0	0	0	0	0	6	0	1	0	14
07:30 AM	1	0	1	0	3	0	0	0	1	0	0	0	3	0	1	0	10
07:45 AM	0	0	0	0	2	0	0	0	0	0	0	0	7	0	3	0	12
Total	6	0	1	0	18	0	0	0	3	0	0	0	18	0	5	0	51
08:00 AM	0	0	0	0	1	0	2	0	1	0	2	0	1	0	1	0	8
08:15 AM	0	0	0	0	6	0	0	0	1	0	0	0	1	0	1	0	9
08:30 AM	2	0	0	0	2	0	1	0	3	0	0	0	1	0	1	0	10
08:45 AM	5	0	0	0	4	0	0	0	5	0	0	0	0	0	0	0	14
Total	7	0	0	0	13	0	3	0	10	0	2	0	3	0	3	0	41
09:00 AM	0	0	0	0	7	0	0	0	11	0	0	0	4	0	0	0	22
09:15 AM	1	0	0	0	0	0	0	0	5	0	0	0	1	0	0	0	7
09:30 AM	4	0	0	0	2	0	0	0	4	0	0	0	4	0	0	0	14
09:45 AM	4	0	0	0	6	0	2	0	7	0	2	0	3	0	0	0	24
Total	9	0	0	0	15	0	2	0	27	0	2	0	12	0	0	0	67
10:00 AM	2	0	0	0	4	0	0	0	4	0	0	0	4	0	2	0	16
10:15 AM	5	0	0	0	0	0	0	0	1	0	0	0	5	0	1	0	12
10:30 AM	1	0	0	0	2	0	1	0	1	0	0	0	0	0	0	0	5
10:45 AM	1	0	0	0	1	0	0	0	3	0	0	0	4	0	0	0	9
Total	9	0	0	0	7	0	1	0	9	0	0	0	13	0	3	0	42
11:00 AM	3	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	6
11:15 AM	3	0	2	0	1	0	0	0	0	0	0	0	0	0	1	0	7
11:30 AM	5	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	9
11:45 AM	3	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	8
Total	14	0	2	0	6	0	0	0	6	0	0	0	1	0	1	0	30
12:00 PM	0	0	0	0	2	0	0	0	3	0	0	0	3	0	0	0	8
12:15 PM	0	0	0	0	1	0	1	0	3	0	2	0	1	0	1	0	9
12:30 PM	8	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0	13
12:45 PM	3	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	7
Total	11	0	0	0	5	0	1	0	9	0	2	0	8	0	1	0	37
01:00 PM	1	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	5
01:15 PM	1	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	4
01:30 PM	2	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	5
01:45 PM	1	0	0	0	1	0	0	0	0	0	0	0	4	0	5	0	11
Total	5	0	0	0	3	0	1	0	0	0	0	0	10	0	6	0	25
02:00 PM	4	0	1	0	1	0	0	0	0	0	0	0	1	0	2	0	9
02:15 PM	0	0	0	0	1	0	1	0	1	0	0	0	2	0	0	0	5
02:30 PM	5	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	9
02:45 PM	5	0	0	0	3	0	2	0	1	0	3	0	1	0	1	0	16
Total	14	0	1	0	6	0	3	0	3	0	3	0	6	0	3	0	39

Traffic Survey Specialists, Inc.

85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

ROYAL POINCIANA WAY & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : royal poinciana & county
Site Code : 220182
Start Date : 11/29/2022
Page No : 2

Groups Printed- PEDESTRIANS & BIKES

	N COUNTY ROAD From North				MAIN STREET From East				N COUNTY ROAD From South				ROYAL POINCIANA WAY From West				
Start Time	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Int. Total
03:00 PM	2	0	0	0	2	0	0	0	3	0	0	0	2	0	0	0	9
03:15 PM	1	0	0	0	3	0	0	0	1	0	1	0	1	0	1	0	8
03:30 PM	1	0	0	0	4	0	0	0	1	0	0	0	0	0	4	0	10
03:45 PM	2	0	0	0	3	0	4	0	0	0	0	0	1	0	0	0	10
Total	6	0	0	0	12	0	4	0	5	0	1	0	4	0	5	0	37
04:00 PM	7	0	0	0	3	0	0	0	2	0	0	0	1	0	0	0	13
04:15 PM	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	5
04:30 PM	5	0	0	0	4	0	1	0	4	0	0	0	3	0	0	0	17
04:45 PM	3	0	2	0	9	0	0	0	5	0	0	0	2	0	0	0	21
Total	15	0	2	0	18	0	1	0	12	0	0	0	8	0	0	0	56
05:00 PM	2	0	0	0	11	0	1	0	5	0	0	0	3	0	1	0	23
05:15 PM	3	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	7
05:30 PM	1	0	0	0	3	0	0	0	4	0	0	0	2	0	0	0	10
05:45 PM	1	0	0	0	1	0	0	0	3	0	0	0	4	0	1	0	10
Total	7	0	0	0	17	0	1	0	14	0	0	0	9	0	2	0	50
06:00 PM	0	0	0	0	1	0	0	0	1	0	0	0	3	0	1	0	6
06:15 PM	2	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	6
06:30 PM	2	0	0	0	7	0	0	0	0	0	0	0	2	0	0	0	11
06:45 PM	1	0	0	0	5	0	0	0	0	0	0	0	3	0	1	0	10
Total	5	0	0	0	14	0	0	0	2	0	0	0	10	0	2	0	33
Grand Total	110	0	6	0	141	0	17	0	102	0	10	0	107	0	31	0	524
Apprch %	94.8	0	5.2	0	89.2	0	10.8	0	91.1	0	8.9	0	77.5	0	22.5	0	
Total %	21	0	1.1	0	26.9	0	3.2	0	19.5	0	1.9	0	20.4	0	5.9	0	

Traffic Survey Specialists, Inc.

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SUNRISE AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunrise & n county
Site Code : 220182
Start Date : 11/29/2022
Page No : 1

Groups Printed- LIGHT VEHICLES - HEAVY VEHICLES

	N COUNTY ROAD From North				SUNRISE AVENUE From East				N COUNTY ROAD From South				SUNRISE AVENUE From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
06:00 AM	0	0	7	1	0	0	1	0	0	0	10	4	0	1	1	3	28
06:15 AM	0	0	12	0	0	2	1	0	0	0	14	1	0	0	0	0	30
06:30 AM	0	0	10	1	0	4	1	0	0	0	26	12	0	1	0	0	55
06:45 AM	0	0	15	1	0	0	2	0	0	2	43	3	0	2	1	0	69
Total	0	0	44	3	0	6	5	0	0	2	93	20	0	4	2	3	182
07:00 AM	0	0	26	0	0	6	0	0	0	4	39	7	0	3	1	2	88
07:15 AM	0	1	33	1	0	8	1	1	0	3	56	13	0	5	2	1	125
07:30 AM	0	0	58	5	0	5	4	1	0	3	95	19	0	9	5	1	205
07:45 AM	0	0	39	2	0	14	4	4	0	4	168	13	0	6	2	3	259
Total	0	1	156	8	0	33	9	6	0	14	358	52	0	23	10	7	677
08:00 AM	0	2	38	6	0	16	5	3	0	8	163	24	0	15	4	5	289
08:15 AM	0	2	46	10	0	9	5	3	0	10	132	22	0	4	4	2	249
08:30 AM	1	1	48	5	0	14	4	1	0	10	176	17	0	13	7	9	306
08:45 AM	0	3	66	7	0	7	5	0	0	7	163	20	0	15	3	13	309
Total	1	8	198	28	0	46	19	7	0	35	634	83	0	47	18	29	1153
09:00 AM	0	1	63	7	0	18	6	3	0	7	180	30	0	5	5	4	329
09:15 AM	0	2	84	14	0	8	7	5	0	9	123	19	0	15	6	8	300
09:30 AM	0	3	66	15	0	12	15	3	0	11	135	28	0	5	3	7	303
09:45 AM	0	4	82	10	0	14	3	2	0	13	112	21	0	1	7	14	283
Total	0	10	295	46	0	52	31	13	0	40	550	98	0	26	21	33	1215
10:00 AM	0	1	69	12	0	14	13	8	0	17	112	22	0	11	6	5	290
10:15 AM	0	4	87	14	0	15	5	3	0	8	103	17	0	8	5	12	281
10:30 AM	0	0	83	9	0	15	8	3	0	10	72	20	0	7	5	12	244
10:45 AM	0	6	82	13	0	23	4	5	0	12	116	23	0	12	2	9	307
Total	0	11	321	48	0	67	30	19	0	47	403	82	0	38	18	38	1122
11:00 AM	0	2	85	16	0	28	9	3	0	9	81	24	0	4	6	7	274
11:15 AM	0	4	70	8	0	26	11	3	0	11	113	22	0	5	5	12	290
11:30 AM	0	7	103	10	0	23	10	3	0	8	103	30	0	13	10	10	330
11:45 AM	0	10	110	14	0	17	12	8	0	18	111	28	0	13	6	23	370
Total	0	23	368	48	0	94	42	17	0	46	408	104	0	35	27	52	1264
12:00 PM	0	16	88	19	0	33	16	9	1	16	89	33	0	8	10	14	352
12:15 PM	0	9	94	15	0	32	15	13	0	13	89	31	0	9	9	11	340
12:30 PM	1	6	83	18	0	35	9	10	0	5	77	19	0	8	10	23	304
12:45 PM	0	6	91	4	0	31	9	5	0	10	101	25	0	8	11	19	320
Total	1	37	356	56	0	131	49	37	1	44	356	108	0	33	40	67	1316
01:00 PM	0	6	103	8	0	28	10	7	0	18	90	27	0	4	5	16	322
01:15 PM	0	4	107	14	0	24	15	6	1	13	101	33	0	9	6	9	342
01:30 PM	0	5	80	9	0	30	8	8	0	13	79	22	0	11	5	12	282
01:45 PM	0	2	103	12	0	21	10	4	0	16	105	25	0	9	8	12	327
Total	0	17	393	43	0	103	43	25	1	60	375	107	0	33	24	49	1273
02:00 PM	0	3	102	18	0	20	8	4	0	14	88	29	0	13	7	15	321
02:15 PM	0	4	98	15	0	31	14	4	0	13	76	26	0	8	5	14	308
02:30 PM	0	5	138	16	0	27	6	4	0	9	75	24	0	9	3	15	331
02:45 PM	0	2	143	7	0	27	7	1	0	13	69	12	0	8	2	11	302
Total	0	14	481	56	0	105	35	13	0	49	308	91	0	38	17	55	1262

Traffic Survey Specialists, Inc.

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Phone (561) 272-3255

SUNRISE AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunrise & n county
Site Code : 220182
Start Date : 11/29/2022
Page No : 2

Groups Printed- LIGHT VEHICLES - HEAVY VEHICLES

	N COUNTY ROAD From North				SUNRISE AVENUE From East				N COUNTY ROAD From South				SUNRISE AVENUE From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
03:00 PM	0	3	139	20	0	22	10	7	0	9	70	29	0	6	5	13	333
03:15 PM	0	1	122	9	0	21	7	3	0	16	97	16	0	4	2	12	310
03:30 PM	0	1	151	13	0	24	12	3	0	14	69	17	0	2	9	8	323
03:45 PM	0	2	150	11	0	28	10	3	0	7	68	21	0	6	10	18	334
Total	0	7	562	53	0	95	39	16	0	46	304	83	0	18	26	51	1300
04:00 PM	0	3	187	15	0	29	14	2	0	8	75	20	0	9	4	13	379
04:15 PM	1	2	143	20	0	13	16	0	0	12	56	20	0	10	7	18	318
04:30 PM	0	4	157	14	0	8	22	4	0	13	65	14	0	8	6	35	350
04:45 PM	0	2	103	11	0	20	2	4	0	16	64	23	0	9	5	9	268
Total	1	11	590	60	0	70	54	10	0	49	260	77	0	36	22	75	1315
05:00 PM	0	0	118	8	0	30	12	2	0	11	73	12	0	6	8	9	289
05:15 PM	0	1	75	5	0	16	7	3	0	7	67	9	0	5	5	7	207
05:30 PM	0	0	67	4	0	15	10	8	0	5	45	17	0	2	7	9	189
05:45 PM	0	0	79	12	0	11	7	2	0	3	51	13	0	3	1	15	197
Total	0	1	339	29	0	72	36	15	0	26	236	51	0	16	21	40	882
06:00 PM	0	0	76	6	0	15	9	0	0	11	43	15	0	3	2	7	187
06:15 PM	0	2	43	3	0	14	7	2	0	9	33	7	0	4	7	15	146
06:30 PM	0	1	43	3	0	12	6	4	0	8	50	7	0	1	4	6	145
06:45 PM	0	1	50	3	0	8	3	2	0	7	34	8	0	3	2	13	134
Total	0	4	212	15	0	49	25	8	0	35	160	37	0	11	15	41	612
Grand Total	3	144	4315	493	0	923	417	186	2	493	4445	993	0	358	261	540	13573
Apprch %	0.1	2.9	87.1	9.9	0	60.5	27.3	12.2	0	8.3	74.9	16.7	0	30.9	22.5	46.6	
Total %	0	1.1	31.8	3.6	0	6.8	3.1	1.4	0	3.6	32.7	7.3	0	2.6	1.9	4	
LIGHT VEHICLES	3	137	4048	483	0	891	397	176	2	481	4164	955	0	342	257	525	12861
% LIGHT VEHICLES	100	95.1	93.8	98	0	96.5	95.2	94.6	100	97.6	93.7	96.2	0	95.5	98.5	97.2	94.8
HEAVY VEHICLES	0	7	267	10	0	32	20	10	0	12	281	38	0	16	4	15	712
% HEAVY VEHICLES	0	4.9	6.2	2	0	3.5	4.8	5.4	0	2.4	6.3	3.8	0	4.5	1.5	2.8	5.2

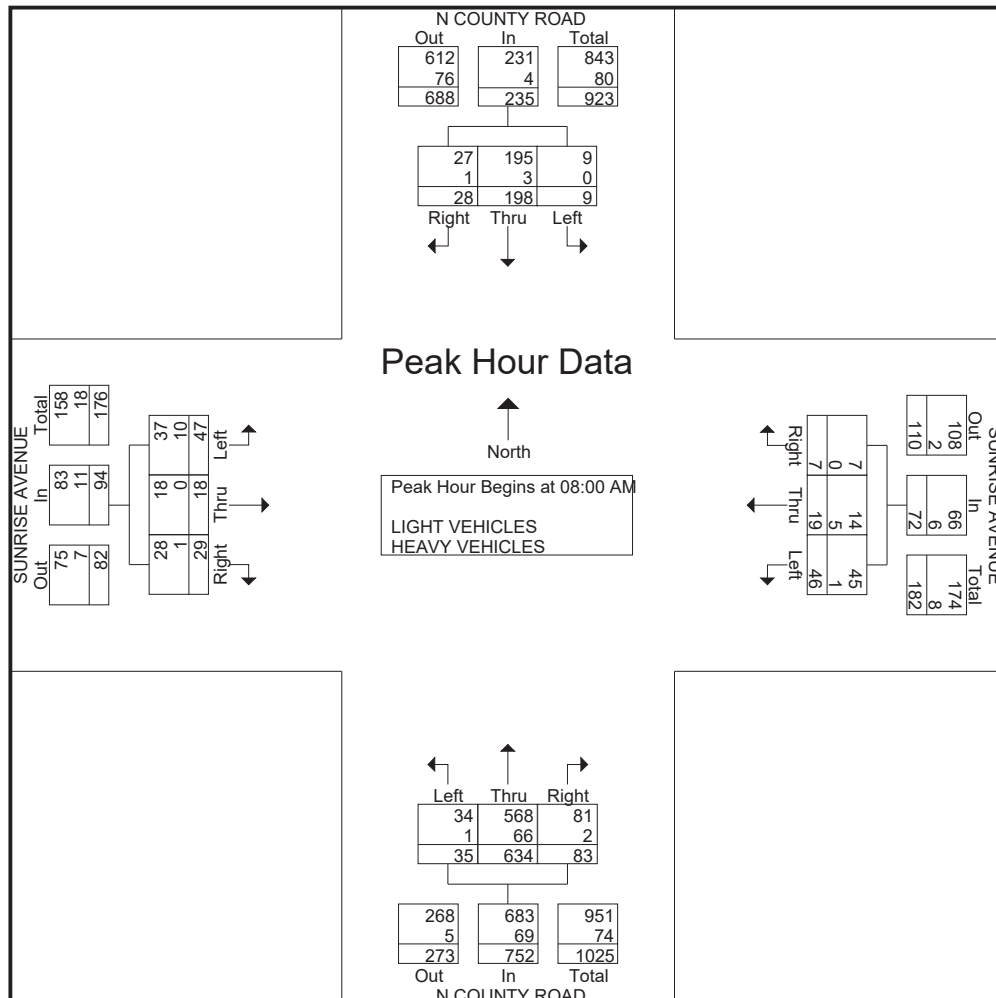
Traffic Survey Specialists, Inc.

85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

SUNRISE AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunrise & n county
Site Code : 220182
Start Date : 11/29/2022
Page No : 3

	N COUNTY ROAD From North					SUNRISE AVENUE From East					N COUNTY ROAD From South					SUNRISE AVENUE From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 08:00 AM																					
08:00 AM	0	2	38	6	46	0	16	5	3	24	0	8	163	24	195	0	15	4	5	24	289
08:15 AM	0	2	46	10	58	0	9	5	3	17	0	10	132	22	164	0	4	4	2	10	249
08:30 AM	1	1	48	5	55	0	14	4	1	19	0	10	176	17	203	0	13	7	9	29	306
08:45 AM	0	3	66	7	76	0	7	5	0	12	0	7	163	20	190	0	15	3	13	31	309
Total Volume	1	8	198	28	235	0	46	19	7	72	0	35	634	83	752	0	47	18	29	94	1153
% App. Total	0.4	3.4	84.3	11.9		0	63.9	26.4	9.7		0	4.7	84.3	11		0	50	19.1	30.9		
PHF	.250	.667	.750	.700	.773	.000	.719	.950	.583	.750	.000	.875	.901	.865	.926	.000	.783	.643	.558	.758	.933
LIGHT VEHICLES																					
% LIGHT VEHICLES	100	100	98.5	96.4	98.3	0	97.8	73.7	100	91.7	0	97.1	89.6	97.6	90.8	0	78.7	100	96.6	88.3	92.2
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	1.5	3.6	1.7	0	2.2	26.3	0	8.3	0	2.9	10.4	2.4	9.2	0	21.3	0	3.4	11.7	7.8



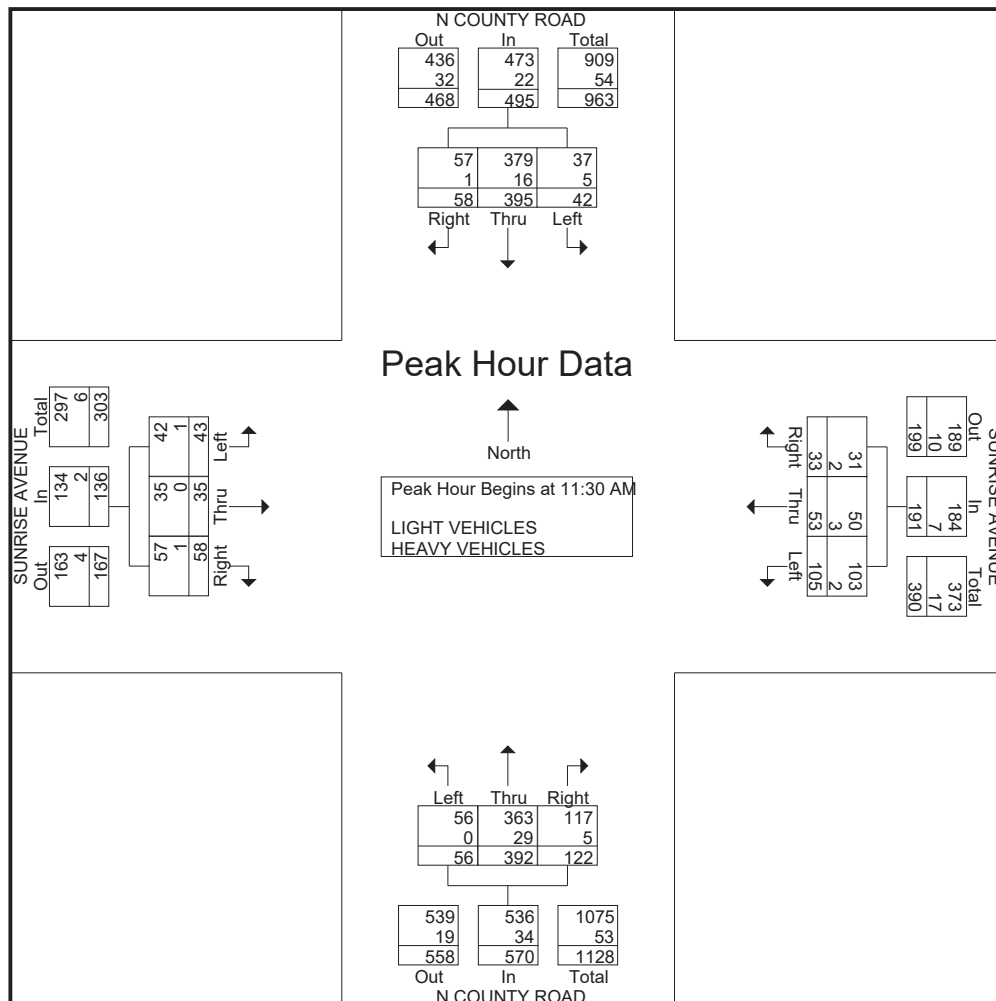
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SUNRISE AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunrise & n county
Site Code : 220182
Start Date : 11/29/2022
Page No : 4

	N COUNTY ROAD From North					SUNRISE AVENUE From East					N COUNTY ROAD From South					SUNRISE AVENUE From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 11:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:30 AM																					
11:30 AM	0	7	103	10	120	0	23	10	3	36	0	8	103	30	141	0	13	10	10	33	330
11:45 AM	0	10	110	14	134	0	17	12	8	37	0	18	111	28	157	0	13	6	23	42	370
12:00 PM	0	16	88	19	123	0	33	16	9	58	1	16	89	33	139	0	8	10	14	32	352
12:15 PM	0	9	94	15	118	0	32	15	13	60	0	13	89	31	133	0	9	9	11	29	340
Total Volume	0	42	395	58	495	0	105	53	33	191	1	55	392	122	570	0	43	35	58	136	1392
% App. Total	0	8.5	79.8	11.7		0	55	27.7	17.3		0.2	9.6	68.8	21.4		0	31.6	25.7	42.6		
PHF	.000	.656	.898	.763	.924	.000	.795	.828	.635	.796	.250	.764	.883	.924	.908	.000	.827	.875	.630	.810	.941
LIGHT VEHICLES																					
% LIGHT VEHICLES	0	88.1	95.9	98.3	95.6	0	98.1	94.3	93.9	96.3	100	100	92.6	95.9	94.0	0	97.7	100	98.3	98.5	95.3
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	11.9	4.1	1.7	4.4	0	1.9	5.7	6.1	3.7	0	0	7.4	4.1	6.0	0	2.3	0	1.7	1.5	4.7



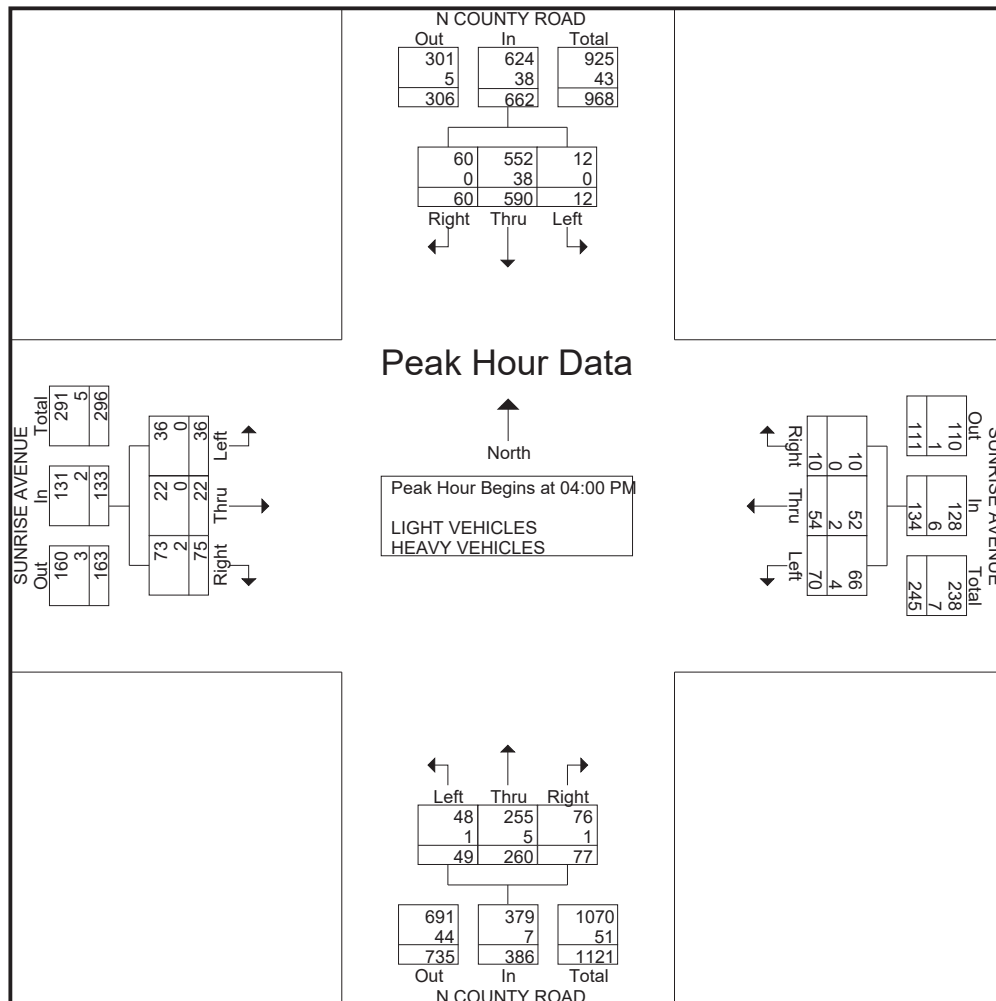
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SUNRISE AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunrise & n county
Site Code : 220182
Start Date : 11/29/2022
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	N COUNTY ROAD From North					SUNRISE AVENUE From East					N COUNTY ROAD From South					SUNRISE AVENUE From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:00 PM																					
04:00 PM	0	3	187	15	205	0	29	14	2	45	0	8	75	20	103	0	9	4	13	26	379
04:15 PM	1	2	143	20	166	0	13	16	0	29	0	12	56	20	88	0	10	7	18	35	318
04:30 PM	0	4	157	14	175	0	8	22	4	34	0	13	65	14	92	0	8	6	35	49	350
04:45 PM	0	2	103	11	116	0	20	2	4	26	0	16	64	23	103	0	9	5	9	23	268
Total Volume	1	11	590	60	662	0	70	54	10	134	0	49	260	77	386	0	36	22	75	133	1315
% App. Total	0.2	1.7	89.1	9.1		0	52.2	40.3	7.5		0	12.7	67.4	19.9		0	27.1	16.5	56.4		
PHF	.250	.688	.789	.750	.807	.000	.603	.614	.625	.744	.000	.766	.867	.837	.937	.000	.900	.786	.536	.679	.867
LIGHT VEHICLES																					
% LIGHT VEHICLES	100	100	93.6	100	94.3	0	94.3	96.3	100	95.5	0	98.0	98.1	98.7	98.2	0	100	100	97.3	98.5	96.0
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	6.4	0	5.7	0	5.7	3.7	0	4.5	0	2.0	1.9	1.3	1.8	0	0	0	2.7	1.5	4.0



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SIGNALIZED

File Name : sunrise & n county
Site Code : 220182
Start Date : 11/29/2022
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Groups Printed- BICYCLES ON THE ROAD

	N COUNTY ROAD From North				SUNRISE AVENUE From East				N COUNTY ROAD From South				SUNRISE AVENUE From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
06:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
06:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 AM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
06:45 AM	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	3
Total	0	0	2	0	0	0	0	1	0	0	3	0	0	0	0	0	6
07:00 AM	0	0	1	0	0	0	0	0	0	0	4	0	0	0	2	0	7
07:15 AM	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	0	4
07:30 AM	0	0	0	0	0	1	0	0	0	0	1	24	0	0	0	0	26
07:45 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
Total	0	0	3	0	0	1	1	1	0	0	6	24	0	0	3	0	39
08:00 AM	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	0	4
08:15 AM	0	0	0	0	0	1	0	0	0	0	4	0	0	0	0	0	5
08:30 AM	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
08:45 AM	0	0	3	0	0	2	0	0	0	0	2	0	0	0	0	0	7
Total	0	0	4	0	0	4	2	0	0	0	7	1	0	0	0	0	18
09:00 AM	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	3
09:15 AM	0	0	3	0	0	0	0	1	0	0	2	0	0	0	0	0	6
09:30 AM	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	5
09:45 AM	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	3
Total	0	0	10	0	0	0	0	1	0	0	6	0	0	0	0	0	17
10:00 AM	0	0	3	0	0	1	0	0	0	0	1	2	0	0	1	0	8
10:15 AM	0	0	3	0	0	1	0	0	0	0	1	1	0	0	1	0	7
10:30 AM	0	0	1	1	0	2	0	0	0	0	4	4	0	0	0	0	12
10:45 AM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total	0	0	7	1	0	4	2	0	0	0	6	7	0	0	2	0	29
11:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
11:15 AM	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2
11:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2
11:45 AM	0	0	1	0	0	2	0	0	0	0	2	0	0	0	0	0	5
Total	0	0	2	0	0	2	2	0	0	0	2	1	0	0	1	0	10
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	5
Total	0	0	1	0	0	0	0	0	0	0	1	4	0	0	0	0	6
01:00 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	1	0	0	0	0	0	0	3	2	0	0	0	0	6
01:45 PM	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	3
Total	0	0	0	1	0	0	2	1	0	0	4	2	0	0	0	0	10
02:00 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
02:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	4

Traffic Survey Specialists, Inc.

85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

SUNRISE AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunrise & n county
Site Code : 220182
Start Date : 11/29/2022
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Groups Printed- BICYCLES ON THE ROAD

	N COUNTY ROAD From North				SUNRISE AVENUE From East				N COUNTY ROAD From South				SUNRISE AVENUE From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
03:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
03:15 PM	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	3
03:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
03:45 PM	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
Total	0	0	4	0	0	2	0	0	0	0	1	0	0	0	0	0	7
04:00 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
04:30 PM	0	0	4	0	0	0	0	0	0	1	1	0	0	0	0	0	6
04:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
Total	0	0	5	0	0	1	0	1	0	1	5	0	0	0	0	0	13
05:00 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
05:15 PM	0	0	1	1	0	0	0	0	0	0	2	1	0	0	1	0	6
05:30 PM	0	0	1	0	0	2	1	0	0	0	0	1	0	0	0	0	5
05:45 PM	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2
Total	0	0	3	2	0	2	2	0	0	0	3	2	0	0	1	0	15
06:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:15 PM	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	3
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	2	0	0	0	0	1	0	0	2	0	0	0	0	0	5
Grand Total	0	0	45	4	0	16	11	6	0	1	48	41	0	0	7	0	179
Apprch %	0	0	91.8	8.2	0	48.5	33.3	18.2	0	1.1	53.3	45.6	0	0	100	0	
Total %	0	0	25.1	2.2	0	8.9	6.1	3.4	0	0.6	26.8	22.9	0	0	3.9	0	

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SUNRISE AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
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SIGNALIZED

File Name : sunrise & n county
Site Code : 220182
Start Date : 11/29/2022
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Groups Printed- PEDESTRIANS & BIKES

	N COUNTY ROAD From North				SUNRISE AVENUE From East				N COUNTY ROAD From South				SUNRISE AVENUE From West				
Start Time	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Int. Total
06:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06:15 AM	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2
06:30 AM	0	0	0	0	2	0	1	0	1	0	0	0	1	0	0	0	5
06:45 AM	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	3
Total	1	0	0	0	5	0	1	0	2	0	0	0	2	0	0	0	11
07:00 AM	2	0	0	0	5	0	1	0	0	0	0	0	1	0	0	0	9
07:15 AM	5	0	0	0	4	0	0	0	2	0	0	0	9	0	1	0	21
07:30 AM	2	0	0	0	1	0	0	0	1	0	0	0	4	0	0	0	8
07:45 AM	5	0	3	0	2	0	0	0	3	0	0	0	3	0	4	0	20
Total	14	0	3	0	12	0	1	0	6	0	0	0	17	0	5	0	58
08:00 AM	6	0	0	0	3	0	0	0	1	0	0	0	3	0	0	0	13
08:15 AM	7	0	0	0	3	0	0	0	3	0	0	0	6	0	1	0	20
08:30 AM	8	0	0	0	5	0	0	0	1	0	0	0	4	0	0	0	18
08:45 AM	20	0	0	0	5	0	0	0	6	0	1	0	4	0	0	0	36
Total	41	0	0	0	16	0	0	0	11	0	1	0	17	0	1	0	87
09:00 AM	1	0	0	0	9	0	0	0	1	0	0	0	1	0	0	0	12
09:15 AM	2	0	0	0	7	0	0	0	6	0	1	0	0	0	0	0	16
09:30 AM	1	0	0	0	8	0	0	0	5	0	0	0	5	0	0	0	19
09:45 AM	5	0	0	0	3	0	1	0	8	0	1	0	10	0	0	0	28
Total	9	0	0	0	27	0	1	0	20	0	2	0	16	0	0	0	75
10:00 AM	5	0	0	0	3	0	0	0	3	0	1	0	3	0	0	0	15
10:15 AM	0	0	0	0	4	0	0	0	2	0	0	0	4	0	0	0	10
10:30 AM	0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0	5
10:45 AM	2	0	0	0	6	0	1	0	2	0	0	0	11	0	0	0	22
Total	7	0	0	0	15	0	1	0	9	0	1	0	19	0	0	0	52
11:00 AM	1	0	0	0	3	0	0	0	6	0	0	0	3	0	0	0	13
11:15 AM	2	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	5
11:30 AM	2	0	0	0	6	0	0	0	3	0	0	0	0	0	0	0	11
11:45 AM	6	0	0	0	7	0	1	0	3	0	0	0	2	0	0	0	19
Total	11	0	0	0	17	0	1	0	13	0	0	0	5	0	1	0	48
12:00 PM	4	0	0	0	7	0	0	0	7	0	0	0	2	0	0	0	20
12:15 PM	3	0	0	0	6	0	0	0	3	0	0	0	6	0	1	0	19
12:30 PM	6	0	0	0	5	0	1	0	4	0	0	0	0	0	0	0	16
12:45 PM	2	0	0	0	4	0	0	0	7	0	0	0	1	0	0	0	14
Total	15	0	0	0	22	0	1	0	21	0	0	0	9	0	1	0	69
01:00 PM	6	0	0	0	3	0	0	0	4	0	0	0	3	0	0	0	16
01:15 PM	6	0	0	0	15	0	0	0	5	0	0	0	6	0	0	0	32
01:30 PM	7	0	0	0	9	0	0	0	4	0	0	0	2	0	0	0	22
01:45 PM	3	0	0	0	3	0	3	0	2	0	2	0	4	0	0	0	17
Total	22	0	0	0	30	0	3	0	15	0	2	0	15	0	0	0	87
02:00 PM	2	0	0	0	5	0	2	0	2	0	0	0	1	0	0	0	12
02:15 PM	3	0	0	0	2	0	0	0	2	0	1	0	1	0	0	0	9
02:30 PM	4	0	0	0	3	0	0	0	4	0	0	0	0	0	0	0	11
02:45 PM	9	0	0	0	7	0	0	0	3	0	0	0	2	0	0	0	21
Total	18	0	0	0	17	0	2	0	11	0	1	0	4	0	0	0	53

Traffic Survey Specialists, Inc.

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SUNRISE AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunrise & n county
Site Code : 220182
Start Date : 11/29/2022
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Groups Printed- PEDESTRIANS & BIKES

	N COUNTY ROAD From North				SUNRISE AVENUE From East				N COUNTY ROAD From South				SUNRISE AVENUE From West				
Start Time	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Int. Total
03:00 PM	4	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	8
03:15 PM	2	0	2	0	0	0	1	0	0	0	1	0	1	0	0	0	7
03:30 PM	0	0	0	0	1	0	0	0	4	0	0	0	1	0	0	0	6
03:45 PM	3	0	0	0	0	0	3	0	1	0	1	0	4	0	0	0	12
Total	9	0	2	0	2	0	4	0	8	0	2	0	6	0	0	0	33
04:00 PM	0	0	1	0	2	0	0	0	4	0	0	0	2	0	0	0	9
04:15 PM	0	0	1	0	2	0	0	0	6	0	0	0	1	0	0	0	10
04:30 PM	6	0	1	0	8	0	0	0	3	0	0	0	3	0	0	0	21
04:45 PM	5	0	0	0	3	0	0	0	3	0	0	0	4	0	0	0	15
Total	11	0	3	0	15	0	0	0	16	0	0	0	10	0	0	0	55
05:00 PM	11	0	0	0	12	0	1	0	6	0	1	0	3	0	0	0	34
05:15 PM	1	0	0	0	6	0	0	0	3	0	0	0	2	0	1	0	13
05:30 PM	2	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	6
05:45 PM	8	0	0	0	4	0	0	0	3	0	0	0	6	0	1	0	22
Total	22	0	0	0	24	0	1	0	12	0	1	0	13	0	2	0	75
06:00 PM	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	4
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	0	6
06:30 PM	0	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0	4
06:45 PM	0	0	0	0	7	0	0	0	2	0	0	0	0	0	2	0	11
Total	1	0	0	0	9	0	0	0	5	0	0	0	7	0	3	0	25
Grand Total	181	0	8	0	211	0	16	0	149	0	10	0	140	0	13	0	728
Apprch %	95.8	0	4.2	0	93	0	7	0	93.7	0	6.3	0	91.5	0	8.5	0	
Total %	24.9	0	1.1	0	29	0	2.2	0	20.5	0	1.4	0	19.2	0	1.8	0	

Traffic Survey Specialists, Inc.

85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
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SUNSET AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunset & n county
Site Code : 220182
Start Date : 11/29/2022
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Groups Printed- LIGHT VEHICLES - HEAVY VEHICLES

	N COUNTY ROAD From North				SUNSET AVENUE From East				N COUNTY ROAD From South				SUNSET AVENUE From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
06:00 AM	0	0	10	0	0	0	0	1	0	1	14	1	0	0	0	1	28
06:15 AM	0	1	13	0	0	1	0	0	0	1	14	4	0	0	0	1	35
06:30 AM	0	0	14	0	0	0	0	0	0	1	38	3	0	0	0	2	58
06:45 AM	0	0	14	1	0	0	1	0	0	7	48	4	0	0	0	1	76
Total	0	1	51	1	0	1	1	1	0	10	114	12	0	0	0	5	197
07:00 AM	0	1	34	0	0	0	0	0	0	7	49	3	0	1	0	9	104
07:15 AM	0	0	40	2	0	2	1	0	0	5	77	3	0	0	0	5	135
07:30 AM	0	0	60	0	0	3	1	0	0	6	104	3	0	3	1	8	189
07:45 AM	0	1	57	3	0	9	1	0	0	16	184	4	0	4	0	10	289
Total	0	2	191	5	0	14	3	0	0	34	414	13	0	8	1	32	717
08:00 AM	0	2	52	5	0	4	2	2	0	22	184	6	0	9	2	11	301
08:15 AM	0	0	55	0	0	4	1	0	0	12	158	4	0	6	2	8	250
08:30 AM	0	0	69	3	0	0	1	0	0	11	196	5	0	7	0	10	302
08:45 AM	0	0	82	6	0	0	1	2	0	7	183	10	0	6	1	13	311
Total	0	2	258	14	0	8	5	4	0	52	721	25	0	28	5	42	1164
09:00 AM	0	1	80	4	0	1	0	0	0	15	207	8	0	9	3	13	341
09:15 AM	0	1	96	3	0	3	0	2	0	9	146	7	0	2	0	9	278
09:30 AM	0	0	82	1	0	2	2	2	0	8	169	8	0	4	1	22	301
09:45 AM	0	1	107	6	0	3	1	2	0	16	138	4	0	4	2	22	306
Total	0	3	365	14	0	9	3	6	0	48	660	27	0	19	6	66	1226
10:00 AM	0	1	82	3	0	1	3	0	0	15	151	4	0	2	0	13	275
10:15 AM	1	1	110	6	0	3	0	5	0	13	120	7	0	2	0	23	291
10:30 AM	1	0	105	2	0	2	3	2	0	12	94	3	0	5	0	12	241
10:45 AM	0	1	108	5	0	3	1	1	0	11	141	6	0	9	1	15	302
Total	2	3	405	16	0	9	7	8	0	51	506	20	0	18	1	63	1109
11:00 AM	0	1	113	7	0	4	1	1	0	16	107	6	0	6	0	20	282
11:15 AM	0	0	107	7	0	2	3	1	0	13	141	7	0	6	2	13	302
11:30 AM	0	2	122	5	0	3	2	1	0	12	135	5	0	6	0	27	320
11:45 AM	0	1	135	14	0	2	1	1	0	19	147	7	0	7	4	29	367
Total	0	4	477	33	0	11	7	4	0	60	530	25	0	25	6	89	1271
12:00 PM	0	1	126	5	0	2	1	0	0	15	129	2	0	11	0	20	312
12:15 PM	0	1	135	5	0	3	0	1	0	21	121	7	0	10	2	21	327
12:30 PM	0	2	129	11	0	3	4	1	0	13	96	6	0	5	0	20	290
12:45 PM	0	2	132	6	0	3	0	1	0	18	126	4	0	5	2	22	321
Total	0	6	522	27	0	11	5	3	0	67	472	19	0	31	4	83	1250
01:00 PM	0	3	139	5	0	4	0	0	0	15	129	6	0	6	1	24	332
01:15 PM	0	2	137	4	0	2	2	2	0	11	141	3	0	9	1	24	338
01:30 PM	0	1	118	5	0	3	1	0	0	11	102	3	0	6	0	22	272
01:45 PM	0	3	124	5	0	6	1	3	0	13	145	2	0	3	3	26	334
Total	0	9	518	19	0	15	4	5	0	50	517	14	0	24	5	96	1276
02:00 PM	0	2	136	3	0	3	0	6	0	11	120	5	0	4	2	24	316
02:15 PM	0	1	133	4	0	3	0	0	0	14	111	5	0	5	0	20	296
02:30 PM	0	3	172	6	0	3	0	0	0	15	99	2	0	6	0	19	325
02:45 PM	0	0	172	4	0	2	1	0	0	12	97	2	0	3	1	17	311
Total	0	6	613	17	0	11	1	6	0	52	427	14	0	18	3	80	1248

Traffic Survey Specialists, Inc.

85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

SUNSET AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunset & n county
Site Code : 220182
Start Date : 11/29/2022
Page No : 2

Groups Printed- LIGHT VEHICLES - HEAVY VEHICLES

	N COUNTY ROAD From North				SUNSET AVENUE From East				N COUNTY ROAD From South				SUNSET AVENUE From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
03:00 PM	0	0	179	4	0	5	0	5	0	18	90	6	0	9	2	14	332
03:15 PM	0	2	140	5	0	6	2	1	0	15	122	7	0	6	2	25	333
03:30 PM	0	4	186	3	0	3	5	0	0	7	97	7	0	4	1	20	337
03:45 PM	0	0	193	3	0	6	1	1	0	13	93	3	0	2	4	13	332
Total	0	6	698	15	0	20	8	7	0	53	402	23	0	21	9	72	1334
04:00 PM	0	1	214	6	0	1	5	0	0	18	99	3	0	4	1	20	372
04:15 PM	0	1	169	7	0	2	6	1	0	24	84	3	0	6	0	27	330
04:30 PM	0	0	201	3	0	1	1	2	0	12	79	1	0	8	2	29	339
04:45 PM	0	0	132	6	0	1	0	3	0	24	97	1	0	4	1	25	294
Total	0	2	716	22	0	5	12	6	0	78	359	8	0	22	4	101	1335
05:00 PM	0	1	140	8	0	2	3	2	0	20	89	2	0	3	0	14	284
05:15 PM	0	2	99	6	0	2	0	3	0	7	74	6	0	6	0	14	219
05:30 PM	0	2	86	4	0	4	1	1	0	14	63	2	0	7	1	15	200
05:45 PM	0	2	97	4	0	6	1	2	0	5	58	5	0	5	0	13	198
Total	0	7	422	22	0	14	5	8	0	46	284	15	0	21	1	56	901
06:00 PM	0	1	94	5	0	1	0	1	0	15	64	1	0	3	0	11	196
06:15 PM	0	0	60	11	0	2	0	0	0	12	49	3	0	2	0	12	151
06:30 PM	0	0	57	4	0	1	0	0	0	13	61	2	0	6	0	9	153
06:45 PM	0	0	66	4	0	0	0	0	0	15	44	0	0	1	0	6	136
Total	0	1	277	24	0	4	0	1	0	55	218	6	0	12	0	38	636
Grand Total	2	52	5513	229	0	132	61	59	0	656	5624	221	0	247	45	823	13664
Apprch %	0	0.9	95.1	4	0	52.4	24.2	23.4	0	10.1	86.5	3.4	0	22.2	4	73.8	
Total %	0	0.4	40.3	1.7	0	1	0.4	0.4	0	4.8	41.2	1.6	0	1.8	0.3	6	
LIGHT VEHICLES	2	51	5205	224	0	130	56	57	0	637	5312	214	0	234	43	792	12957
% LIGHT VEHICLES	100	98.1	94.4	97.8	0	98.5	91.8	96.6	0	97.1	94.5	96.8	0	94.7	95.6	96.2	94.8
HEAVY VEHICLES	0	1	308	5	0	2	5	2	0	19	312	7	0	13	2	31	707
% HEAVY VEHICLES	0	1.9	5.6	2.2	0	1.5	8.2	3.4	0	2.9	5.5	3.2	0	5.3	4.4	3.8	5.2

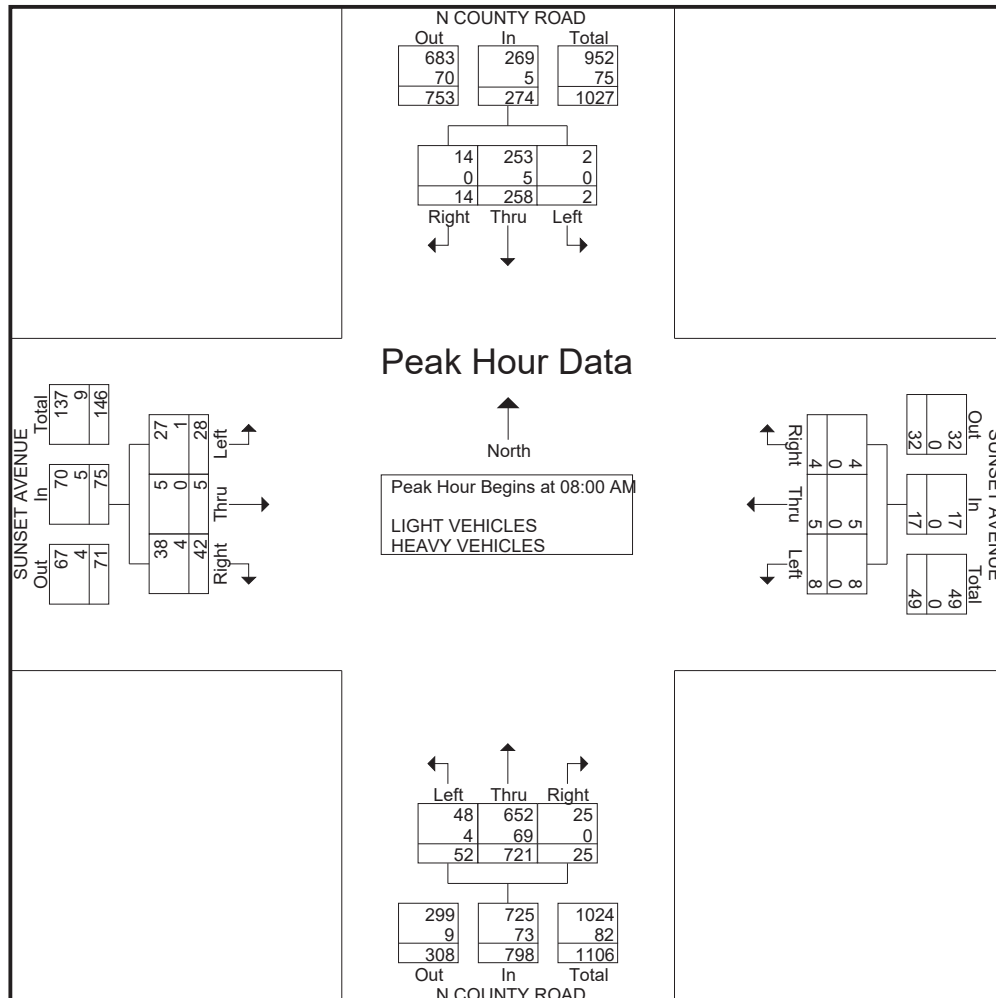
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SUNSET AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunset & n county
Site Code : 220182
Start Date : 11/29/2022
Page No : 3

	N COUNTY ROAD From North					SUNSET AVENUE From East					N COUNTY ROAD From South					SUNSET AVENUE From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 08:00 AM																					
08:00 AM	0	2	52	5	59	0	4	2	2	8	0	22	184	6	212	0	9	2	11	22	301
08:15 AM	0	0	55	0	55	0	4	1	0	5	0	12	158	4	174	0	6	2	8	16	250
08:30 AM	0	0	69	3	72	0	0	1	0	1	0	11	196	5	212	0	7	0	10	17	302
08:45 AM	0	0	82	6	88	0	0	1	2	3	0	7	183	10	200	0	6	1	13	20	311
Total Volume	0	2	258	14	274	0	8	5	4	17	0	52	721	25	798	0	28	5	42	75	1164
% App. Total	0	0.7	94.2	5.1		0	47.1	29.4	23.5		0	6.5	90.4	3.1		0	37.3	6.7	56		
PHF	.000	.250	.787	.583	.778	.000	.500	.625	.500	.531	.000	.591	.920	.625	.941	.000	.778	.625	.808	.852	.936
LIGHT VEHICLES																					
% LIGHT VEHICLES	0	100	98.1	100	98.2	0	100	100	100	100	0	92.3	90.4	100	90.9	0	96.4	100	90.5	93.3	92.9
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	1.9	0	1.8	0	0	0	0	0	0	7.7	9.6	0	9.1	0	3.6	0	9.5	6.7	7.1



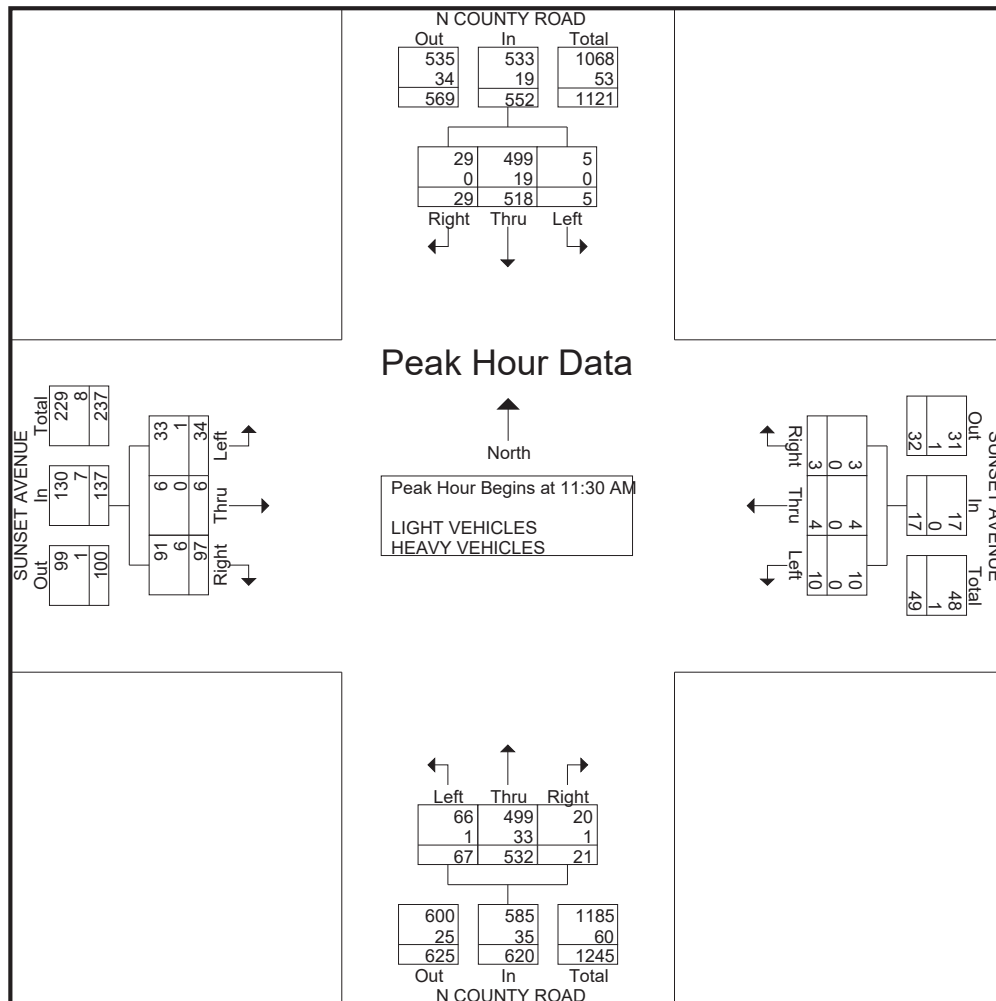
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File Name : sunset & n county
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	N COUNTY ROAD From North					SUNSET AVENUE From East					N COUNTY ROAD From South					SUNSET AVENUE From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 11:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:30 AM																					
11:30 AM	0	2	122	5	129	0	3	2	1	6	0	12	135	5	152	0	6	0	27	33	320
11:45 AM	0	1	135	14	150	0	2	1	1	4	0	19	147	7	173	0	7	4	29	40	367
12:00 PM	0	1	126	5	132	0	2	1	0	3	0	15	129	2	146	0	11	0	20	31	312
12:15 PM	0	1	135	5	141	0	3	0	1	4	0	21	121	7	149	0	10	2	21	33	327
Total Volume	0	5	518	29	552	0	10	4	3	17	0	67	532	21	620	0	34	6	97	137	1326
% App. Total	0	0.9	93.8	5.3		0	58.8	23.5	17.6		0	10.8	85.8	3.4		0	24.8	4.4	70.8		
PHF	.000	.625	.959	.518	.920	.000	.833	.500	.750	.708	.000	.798	.905	.750	.896	.000	.773	.375	.836	.856	.903
LIGHT VEHICLES																					
% LIGHT VEHICLES	0	100	96.3	100	96.6	0	100	100	100	100	0	98.5	93.8	95.2	94.4	0	97.1	100	93.8	94.9	95.4
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	3.7	0	3.4	0	0	0	0	0	0	1.5	6.2	4.8	5.6	0	2.9	0	6.2	5.1	4.6



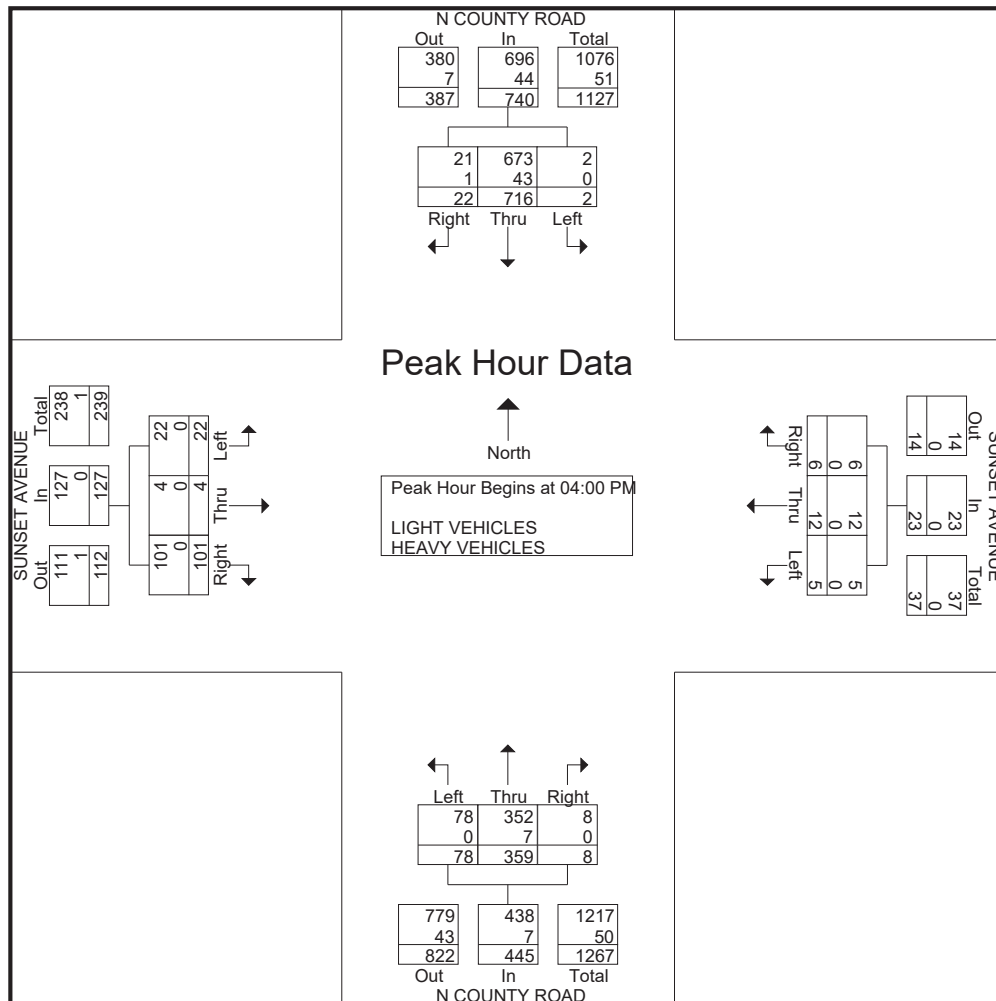
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PALM BEACH, FLORIDA
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File Name : sunset & n county
Site Code : 220182
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	N COUNTY ROAD From North					SUNSET AVENUE From East					N COUNTY ROAD From South					SUNSET AVENUE From West					
Start Time	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	UTurn	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:00 PM																					
04:00 PM	0	1	214	6	221	0	1	5	0	6	0	18	99	3	120	0	4	1	20	25	372
04:15 PM	0	1	169	7	177	0	2	6	1	9	0	24	84	3	111	0	6	0	27	33	330
04:30 PM	0	0	201	3	204	0	1	1	2	4	0	12	79	1	92	0	8	2	29	39	339
04:45 PM	0	0	132	6	138	0	1	0	3	4	0	24	97	1	122	0	4	1	25	30	294
Total Volume	0	2	716	22	740	0	5	12	6	23	0	78	359	8	445	0	22	4	101	127	1335
% App. Total	0	0.3	96.8	3		0	21.7	52.2	26.1		0	17.5	80.7	1.8		0	17.3	3.1	79.5		
PHF	.000	.500	.836	.786	.837	.000	.625	.500	.500	.639	.000	.813	.907	.667	.912	.000	.688	.500	.871	.814	.897
LIGHT VEHICLES																					
% LIGHT VEHICLES	0	100	94.0	95.5	94.1	0	100	100	100	100	0	100	98.1	100	98.4	0	100	100	100	100	96.2
HEAVY VEHICLES																					
% HEAVY VEHICLES	0	0	6.0	4.5	5.9	0	0	0	0	0	0	0	1.9	0	1.6	0	0	0	0	0	3.8



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File Name : sunset & n county
Site Code : 220182
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Page No : 1

Groups Printed- BICYCLES ON THE ROAD

	N COUNTY ROAD From North				SUNSET AVENUE From East				N COUNTY ROAD From South				SUNSET AVENUE From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
06:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
06:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 AM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
06:45 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Total	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	5
07:00 AM	0	0	1	0	0	0	0	0	0	1	4	0	0	0	0	0	6
07:15 AM	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	3
07:30 AM	0	0	1	0	0	0	0	0	0	0	25	0	0	0	0	0	26
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	4	0	0	0	0	0	0	1	30	0	0	0	0	0	35
08:00 AM	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	3
08:15 AM	0	0	1	0	0	0	0	0	0	0	5	0	0	0	0	1	7
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	3	0	0	0	0	0	0	0	2	0	0	0	2	1	8
Total	0	0	5	1	0	0	0	0	0	0	8	0	0	0	2	2	18
09:00 AM	0	0	3	0	0	0	2	0	0	0	2	0	0	0	0	0	7
09:15 AM	0	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	5
09:30 AM	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	5
09:45 AM	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	3
Total	0	0	12	0	0	0	2	0	0	0	6	0	0	0	0	0	20
10:00 AM	0	0	4	0	0	0	0	0	0	0	3	0	0	0	0	0	7
10:15 AM	0	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	6
10:30 AM	0	0	3	0	0	0	0	0	0	0	8	0	0	0	0	0	11
10:45 AM	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Total	0	0	11	0	0	0	0	0	0	4	13	0	0	0	0	0	28
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
11:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:45 AM	0	0	1	2	0	0	0	0	0	0	2	0	0	0	0	0	5
Total	0	0	2	2	0	0	0	0	0	0	2	0	0	1	0	0	7
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
12:30 PM	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	3
12:45 PM	0	0	0	0	0	0	0	0	0	0	5	0	0	0	1	0	6
Total	0	0	1	0	0	0	2	0	0	0	5	1	0	0	1	0	10
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	6
02:00 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
02:45 PM	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
Total	0	0	2	0	0	0	1	0	0	0	2	0	0	0	0	0	5

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File Name : sunset & n county
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Start Date : 11/29/2022
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Groups Printed- BICYCLES ON THE ROAD

	N COUNTY ROAD From North				SUNSET AVENUE From East				N COUNTY ROAD From South				SUNSET AVENUE From West				
Start Time	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Int. Total
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
03:30 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
03:45 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
Total	0	0	6	0	0	0	0	0	0	0	1	0	0	0	0	0	7
04:00 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
04:30 PM	0	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	6
04:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	12
05:00 PM	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
05:15 PM	0	0	1	0	0	2	0	0	0	0	3	0	0	0	0	0	6
05:30 PM	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	3
05:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	5	0	0	2	0	0	0	0	5	0	0	0	0	0	12
06:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	2	0	0	0	0	0	0	0	1	0	0	1	0	0	4
Grand Total	0	0	58	3	0	2	5	0	0	5	87	1	0	3	3	2	169
Apprch %	0	0	95.1	4.9	0	28.6	71.4	0	0	5.4	93.5	1.1	0	37.5	37.5	25	
Total %	0	0	34.3	1.8	0	1.2	3	0	0	3	51.5	0.6	0	1.8	1.8	1.2	

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Start Date : 11/29/2022
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Groups Printed- PEDESTRIANS & BIKES

	N COUNTY ROAD From North				SUNSET AVENUE From East				N COUNTY ROAD From South				SUNSET AVENUE From West				
Start Time	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Int. Total
06:00 AM	0	0	0	0	6	0	0	0	1	0	0	0	1	0	0	0	8
06:15 AM	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
06:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
06:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2
Total	0	0	0	0	9	0	0	0	1	0	0	0	3	0	0	0	13
07:00 AM	0	0	0	0	10	0	0	0	3	0	1	0	1	0	1	0	16
07:15 AM	0	0	0	0	6	0	0	0	2	0	0	0	10	0	1	0	19
07:30 AM	3	0	0	0	3	0	0	0	2	0	0	0	1	0	0	0	9
07:45 AM	1	0	0	0	2	0	0	0	1	0	0	0	6	0	4	0	14
Total	4	0	0	0	21	0	0	0	8	0	1	0	18	0	6	0	58
08:00 AM	2	0	0	0	2	0	0	0	2	0	0	0	4	0	0	0	10
08:15 AM	0	0	0	0	8	0	0	0	1	0	0	0	2	0	1	0	12
08:30 AM	2	0	0	0	3	0	2	0	1	0	0	0	3	0	0	0	11
08:45 AM	1	0	0	0	6	0	0	0	4	0	1	0	5	0	0	0	17
Total	5	0	0	0	19	0	2	0	8	0	1	0	14	0	1	0	50
09:00 AM	2	0	0	0	6	0	0	0	2	0	1	0	3	0	0	0	14
09:15 AM	2	0	0	0	5	0	0	0	5	0	0	0	2	0	0	0	14
09:30 AM	4	0	0	0	8	0	0	0	0	0	0	0	6	0	0	0	18
09:45 AM	2	0	0	0	17	0	1	0	5	0	0	0	7	0	0	0	32
Total	10	0	0	0	36	0	1	0	12	0	1	0	18	0	0	0	78
10:00 AM	6	0	0	0	4	0	2	0	4	0	2	0	4	0	0	0	22
10:15 AM	2	0	0	0	3	0	0	0	1	0	0	0	5	0	0	0	11
10:30 AM	1	0	0	0	6	0	0	0	2	0	0	0	7	0	0	0	16
10:45 AM	3	0	4	0	2	0	1	0	3	0	1	0	15	0	0	0	29
Total	12	0	4	0	15	0	3	0	10	0	3	0	31	0	0	0	78
11:00 AM	1	0	0	0	3	0	0	0	1	0	1	0	3	0	0	0	9
11:15 AM	0	0	0	0	4	0	0	0	0	0	0	0	1	0	1	0	6
11:30 AM	0	0	0	0	3	0	0	0	4	0	0	0	1	0	0	0	8
11:45 AM	2	0	0	0	3	0	0	0	6	0	0	0	4	0	0	0	15
Total	3	0	0	0	13	0	0	0	11	0	1	0	9	0	1	0	38
12:00 PM	0	0	0	0	5	0	0	0	8	0	0	0	4	0	0	0	17
12:15 PM	0	0	0	0	2	0	0	0	2	0	0	0	2	0	1	0	7
12:30 PM	3	0	0	0	2	0	1	0	3	0	0	0	3	0	0	0	12
12:45 PM	2	0	0	0	3	0	0	0	3	0	3	0	3	0	0	0	14
Total	5	0	0	0	12	0	1	0	16	0	3	0	12	0	1	0	50
01:00 PM	0	0	0	0	2	0	0	0	3	0	0	0	5	0	4	0	14
01:15 PM	1	0	0	0	7	0	0	0	9	0	0	0	5	0	0	0	22
01:30 PM	0	0	0	0	4	0	2	0	1	0	2	0	2	0	0	0	11
01:45 PM	3	0	0	0	5	0	0	0	4	0	0	0	4	0	4	0	20
Total	4	0	0	0	18	0	2	0	17	0	2	0	16	0	8	0	67
02:00 PM	1	0	0	0	6	0	2	0	2	0	2	0	0	0	0	0	13
02:15 PM	0	0	0	0	5	0	1	0	2	0	0	0	0	0	0	0	8
02:30 PM	1	0	0	0	4	0	0	0	2	0	0	0	1	0	0	0	8
02:45 PM	3	0	0	0	6	0	0	0	2	0	0	0	2	0	0	0	13
Total	5	0	0	0	21	0	3	0	8	0	2	0	3	0	0	0	42

Traffic Survey Specialists, Inc.

85 SE 4th Avenue, Unit 109, Delray Beach, Florida 33483
Phone (561) 272-3255

SUNSET AVENUE & N COUNTY ROAD
PALM BEACH, FLORIDA
VIDEO COUNT
SIGNALIZED

File Name : sunset & n county
Site Code : 220182
Start Date : 11/29/2022
Page No : 2

Groups Printed- PEDESTRIANS & BIKES

	N COUNTY ROAD From North				SUNSET AVENUE From East				N COUNTY ROAD From South				SUNSET AVENUE From West				
Start Time	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Int. Total
03:00 PM	1	0	0	0	8	0	0	0	3	0	0	0	1	0	0	0	13
03:15 PM	0	0	0	0	3	0	0	0	1	0	1	0	2	0	0	0	7
03:30 PM	0	0	0	0	4	0	1	0	1	0	0	0	3	0	0	0	9
03:45 PM	3	0	0	0	2	0	4	0	1	0	0	0	2	0	0	0	12
Total	4	0	0	0	17	0	5	0	6	0	1	0	8	0	0	0	41
04:00 PM	1	0	0	0	1	0	0	0	2	0	0	0	1	0	1	0	6
04:15 PM	3	0	0	0	1	0	0	0	6	0	0	0	1	0	0	0	11
04:30 PM	7	0	0	0	6	0	0	0	2	0	0	0	4	0	1	0	20
04:45 PM	3	0	0	0	5	0	0	0	7	0	0	0	5	0	0	0	20
Total	14	0	0	0	13	0	0	0	17	0	0	0	11	0	2	0	57
05:00 PM	13	0	0	0	12	0	1	0	2	0	0	0	1	0	1	0	30
05:15 PM	0	0	0	0	3	0	0	0	4	0	0	0	0	0	0	0	7
05:30 PM	3	0	0	0	5	0	1	0	0	0	0	0	2	0	1	0	12
05:45 PM	3	0	0	0	2	0	0	0	5	0	0	0	5	0	1	0	16
Total	19	0	0	0	22	0	2	0	11	0	0	0	8	0	3	0	65
06:00 PM	3	0	0	0	3	0	0	0	2	0	0	0	5	0	0	0	13
06:15 PM	2	0	0	0	2	0	0	0	1	0	0	0	3	0	1	0	9
06:30 PM	0	0	0	0	5	0	0	0	4	0	0	0	0	0	0	0	9
06:45 PM	2	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	5
Total	7	0	0	0	11	0	0	0	8	0	0	0	8	0	2	0	36
Grand Total	92	0	4	0	227	0	19	0	133	0	15	0	159	0	24	0	673
Apprch %	95.8	0	4.2	0	92.3	0	7.7	0	89.9	0	10.1	0	86.9	0	13.1	0	
Total %	13.7	0	0.6	0	33.7	0	2.8	0	19.8	0	2.2	0	23.6	0	3.6	0	

VOLUME DEVELOPMENT SHEET
PARAMOUNT PALM BEACH
SUNRISE AVE & COUNTY ROAD
EXISTING GEOMETRY

Growth Rate = 1.00%
Peak Season = 1
Buildout Year = 2027
Years = 5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 11/29/2022	35	634	83	9	198	28	47	18	29	46	19	7
Peak Season Volume	35	634	83	9	198	28	47	18	29	46	19	7
Traffic Volume Growth Committed Development	2	32	4	0	10	1	2	1	1	2	1	0
1.0% Traffic Volume Growth	2	32	4	0	10	1	2	1	1	2	1	0
Committed + 1.0% Growth	2	32	4	0	10	1	2	1	1	2	1	0
Max (Committed + 1.0% or Historic Growth)	2	32	4	0	10	1	2	1	1	2	1	0
Background Traffic Volumes	37	666	87	9	208	29	49	19	30	48	20	7
Project Traffic												
Inbound Traffic Assignment			20.0%	15.0%	15.0%			5.0%				
Inbound Traffic Volumes			3	2	2			1				
Outbound Traffic Assignment	5.0%	30.0%	10.0%									
Outbound Traffic Volumes	1	4	1									
Project Traffic	1	4	4	2	2	0	0	1	0	0	0	0
Total Traffic w/o RTOR	38	670	91	11	210	29	49	20	30	48	20	7
RTOR Reduction			(60)			(60)			(60)			(60)
TOTAL TRAFFIC	38	670	31	11	210	0	49	20	0	48	20	0

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 11/29/2022	49	260	77	12	590	60	36	22	75	70	54	10
Peak Season Volume	49	260	77	12	590	60	36	22	75	70	54	10
Traffic Volume Growth Committed Development	2	13	4	1	30	3	2	1	4	4	3	1
1.0% Traffic Volume Growth	2	13	4	1	30	3	2	1	4	4	3	1
Committed + 1.0% Growth	2	13	4	1	30	3	2	1	4	4	3	1
Max (Committed + 1.0% or Historic Growth)	2	13	4	1	30	3	2	1	4	4	3	1
Background Traffic Volumes	51	273	81	13	620	63	38	23	79	74	57	11
Project Traffic												
Inbound Traffic Assignment			20.0%	15.0%	15.0%			5.0%				
Inbound Traffic Volumes			18	13	13			4				
Outbound Traffic Assignment	5.0%	30.0%	10.0%									
Outbound Traffic Volumes	3	17	6									
Project Traffic	3	17	24	13	13	0	0	4	0	0	0	0
Total Traffic w/o RTOR	54	290	105	26	633	63	38	27	79	74	57	11
RTOR Reduction			(60)			(60)			(60)			(60)
TOTAL TRAFFIC	54	290	45	26	633	3	38	27	19	74	57	0

VOLUME DEVELOPMENT SHEET
PARAMOUNT PALM BEACH
SUNSET AVE & COUNTY ROAD
EXISTING GEOMETRY

Growth Rate = 1.00%
Peak Season = 1
Buildout Year = 2027
Years = 5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 11/29/2022	52	721	25	2	258	14	28	5	42	8	5	4
Peak Season Volume	52	721	25	2	258	14	28	5	42	8	5	4
Traffic Volume Growth Committed Development	3	37	1	0	13	1	1	0	2	0	0	0
1.0% Traffic Volume Growth	3	37	1	0	13	1	1	0	2	0	0	0
Committed + 1.0% Growth	3	37	1	0	13	1	1	0	2	0	0	0
Max (Committed + 1.0% or Historic Growth)	3	37	1	0	13	1	1	0	2	0	0	0
Background Traffic Volumes	55	758	26	2	271	15	29	5	44	8	5	4
Project Traffic												
Inbound Traffic Assignment		20.0%	30.0%	15.0%				5.0%				
Inbound Traffic Volumes		3	5	2				1				
Outbound Traffic Assignment										50.0%	5.0%	45.0%
Outbound Traffic Volumes										6	1	5
Project Traffic	0	3	5	2	0	0	0	1	0	6	1	5
Total Traffic w/o RTOR	55	761	31	4	271	15	29	6	44	14	6	9
RTOR Reduction			(60)			(60)			(60)			(60)
TOTAL TRAFFIC	55	761	0	4	271	0	29	6	0	14	6	0

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 11/29/2022	78	359	8	2	716	22	22	4	101	5	12	6
Peak Season Volume	78	359	8	2	716	22	22	4	101	5	12	6
Traffic Volume Growth Committed Development	4	18	0	0	37	1	1	0	5	0	1	0
1.0% Traffic Volume Growth	4	18	0	0	37	1	1	0	5	0	1	0
Committed + 1.0% Growth	4	18	0	0	37	1	1	0	5	0	1	0
Max (Committed + 1.0% or Historic Growth)	4	18	0	0	37	1	1	0	5	0	1	0
Background Traffic Volumes	82	377	8	2	753	23	23	4	106	5	13	6
Project Traffic												
Inbound Traffic Assignment		20.0%	30.0%	15.0%				5.0%				
Inbound Traffic Volumes		18	27	13				4				
Outbound Traffic Assignment										50.0%	5.0%	45.0%
Outbound Traffic Volumes										29	3	26
Project Traffic	0	18	27	13	0	0	0	4	0	29	3	26
Total Traffic w/o RTOR	82	395	35	15	753	23	23	8	106	34	16	32
RTOR Reduction			(60)			(60)			(60)			(60)
TOTAL TRAFFIC	82	395	0	15	753	0	23	8	46	34	16	0

VOLUME DEVELOPMENT SHEET
PARAMOUNT PALM BEACH
ROYAL POINCIANA WAY & COUNTY ROAD
EXISTING GEOMETRY

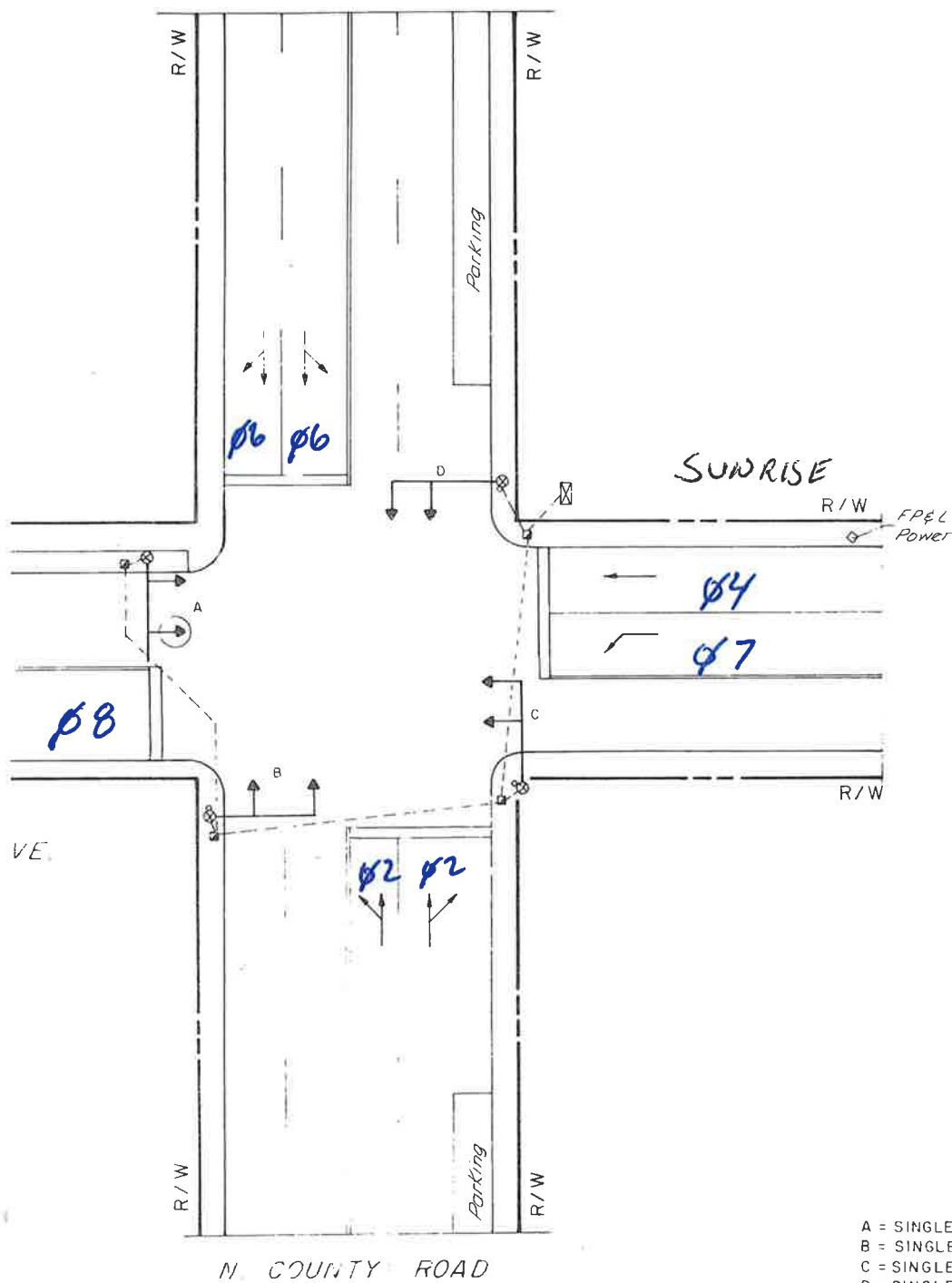
Growth Rate = 1.00%
Peak Season = 1
Buildout Year = 2027
Years = 5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 11/29/2022	101	517	54	0	186	109	289	49	189	5	36	8
Peak Season Volume	101	517	54	0	186	109	289	49	189	5	36	8
Traffic Volume Growth Committed Development	5	26	3	0	9	6	15	2	10	0	2	0
1.0% Traffic Volume Growth	5	26	3	0	9	6	15	2	10	0	2	0
Committed + 1.0% Growth	5	26	3	0	9	6	15	2	10	0	2	0
Max (Committed + 1.0% or Historic Growth)	5	26	3	0	9	6	15	2	10	0	2	0
Background Traffic Volumes	106	543	57	0	195	115	304	51	199	5	38	8
Project Traffic												
Inbound Traffic Assignment		20.0%					30.0%					
Inbound Traffic Volumes		3					5					
Outbound Traffic Assignment				20.0%	30.0%							
Outbound Traffic Volumes				2	4							
Project Traffic	0	3	0	0	2	4	5	0	0	0	0	0
Total Traffic w/o RTOR	106	546	57	0	197	119	309	51	199	5	38	8
RTOR Reduction			(60)		(60)			(60)			(60)	
TOTAL TRAFFIC	106	546	0	0	197	59	309	51	139	5	38	0

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 11/29/2022	180	306	27	0	444	377	125	44	141	45	76	21
Peak Season Volume	180	306	27	0	444	377	125	44	141	45	76	21
Traffic Volume Growth Committed Development	9	16	1	0	23	19	6	2	7	2	4	1
1.0% Traffic Volume Growth	9	16	1	0	23	19	6	2	7	2	4	1
Committed + 1.0% Growth	9	16	1	0	23	19	6	2	7	2	4	1
Max (Committed + 1.0% or Historic Growth)	9	16	1	0	23	19	6	2	7	2	4	1
Background Traffic Volumes	189	322	28	0	467	396	131	46	148	47	80	22
Project Traffic												
Inbound Traffic Assignment		20.0%					30.0%					
Inbound Traffic Volumes		18					27					
Outbound Traffic Assignment				20.0%	30.0%							
Outbound Traffic Volumes				11	17							
Project Traffic	0	18	0	0	11	17	27	0	0	0	0	0
Total Traffic w/o RTOR	189	340	28	0	478	413	158	46	148	47	80	22
RTOR Reduction			(60)		(60)			(60)			(60)	
TOTAL TRAFFIC	189	340	0	0	478	353	158	46	88	47	80	0



- A = SINGLE MAST ARM 20°
- B = SINGLE MAST ARM 20°
- C = SINGLE MAST ARM 20°
- D = SINGLE MAST ARM 20°

LEGEND

CONTROLLER CABINET

Royal Poinciana - North County & Sunrise

Controller Timing Plan (MM)2-1

Plan 1

[illegible]

W ↑

SUNSET/
COUNTY

φ 2
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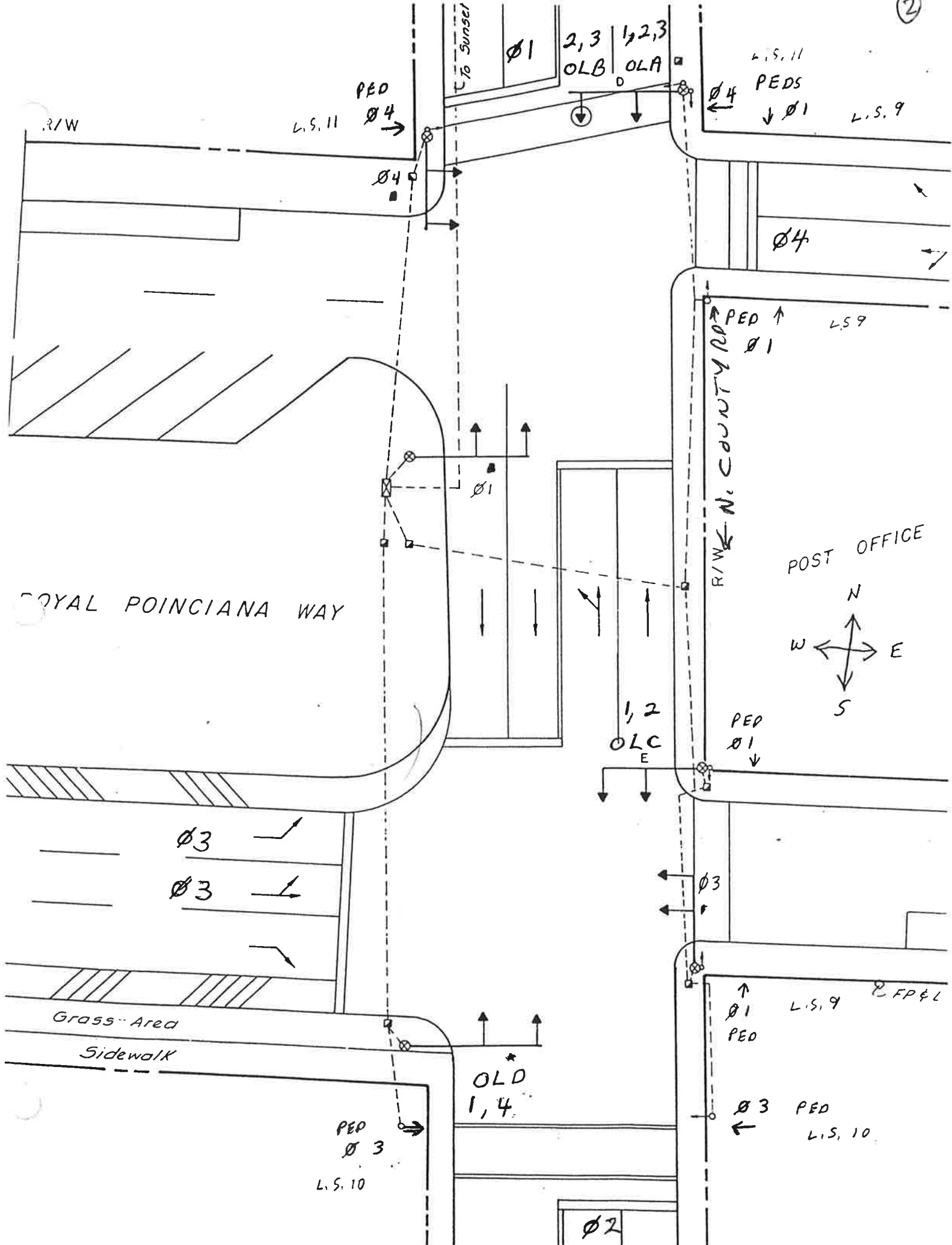
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Royal Poinciana - County & Sunset

Controller Timing Plan (MM)2-1

Plan 1

[illegible]



S.O. 1819-72-002
D-73553

PHASE	1	2	3	4	5	6	7	8	A	B	C	D
SIG#	1	TIMING	3	4	N/U	N/U	N/U	N/U	A	B	C	D
OVLP									1,2,3	2,3	1,2	1,4
GRN	1G-B		3G-B	4G-B					9G-B	10G-B	11G-B	12G-B
YEL	1Y-B		3Y-B	4Y-B					9Y-B	10Y-B	11Y-B	12Y-B
RED	1R-B		3R-B	4R-B					9R-B	10R-B	11R-B	12R-B
GRN ARROW												
YEL ARROW												
RED ARROW												
WALK	13G-B		15G-B	16G-B								
D-WALK	13R-B		15R-B	16R-B								
PED DET	PIP- 17A		PIP- 19A	PIP- 20A								

SR. A-1-A (N.CO. ROAD) AND ROYAL POINCIANA WAY
PALM BEACH, FLORIDA

Royal Poinciana - County & Poinciana

Controller Timing Plan (MM)2-1 Plan 1

[illegible]

Timings

1: County Road & Sunrise Avenue

EX AM
12/20/2022



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations		↔	↔	↔		↔	↔	↔	↔
Traffic Volume (vph)	47	18	46	19	35	634	83	9	198
Future Volume (vph)	47	18	46	19	35	634	83	9	198
Turn Type	Perm	NA	pm+pt	NA	Perm	NA	Perm	Perm	NA
Protected Phases		8	7	4		2			6
Permitted Phases	8		4		2		2	6	
Detector Phase	8	8	7	4	2	2	2	6	6
Switch Phase									
Minimum Initial (s)	10.0	10.0	7.0	10.0	20.0	20.0	20.0	20.0	20.0
Minimum Split (s)	31.0	31.0	13.0	31.0	26.0	26.0	26.0	26.0	26.0
Total Split (s)	30.0	30.0	20.0	50.0	40.0	40.0	40.0	40.0	40.0
Total Split (%)	33.3%	33.3%	22.2%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Lost Time (s)		6.0	6.0	6.0		6.0	6.0	6.0	6.0
Lead/Lag	Lag	Lag	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes						
Recall Mode	None	None	None	None	Max	Max	Max	Max	Max
Act Effect Green (s)		10.6	17.9	18.6		41.0	41.0	41.0	41.0
Actuated g/C Ratio		0.16	0.27	0.28		0.62	0.62	0.62	0.62
v/c Ratio		0.38	0.13	0.05		0.63	0.09	0.03	0.21
Control Delay		26.1	16.7	12.6		17.2	2.1	11.0	10.1
Queue Delay		0.0	0.0	0.0		0.6	0.0	0.0	0.0
Total Delay		26.1	16.7	12.6		17.8	2.1	11.0	10.1
LOS		C	B	B		B	A	B	B
Approach Delay		26.1		15.3		16.1			10.1
Approach LOS		C		B		B			B

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 66.4

Natural Cycle: 80

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.63

Intersection Signal Delay: 15.6

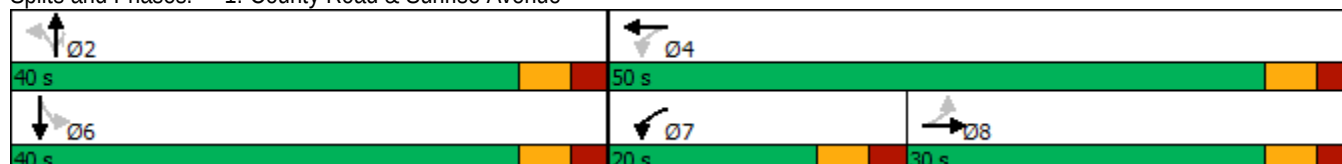
Intersection LOS: B

Intersection Capacity Utilization 79.0%

ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 1: County Road & Sunrise Avenue





Lane Group	EBT	WBL	WBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	99	48	27	704	87	9	237
v/c Ratio	0.38	0.13	0.05	0.63	0.09	0.03	0.21
Control Delay	26.1	16.7	12.6	17.2	2.1	11.0	10.1
Queue Delay	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Total Delay	26.1	16.7	12.6	17.8	2.1	11.0	10.1
Queue Length 50th (ft)	29	14	6	233	0	2	53
Queue Length 95th (ft)	73	34	21	#478	16	10	108
Internal Link Dist (ft)	482		146	316			333
Turn Bay Length (ft)						160	
Base Capacity (vph)	556	485	1201	1120	1018	297	1132
Starvation Cap Reductn	0	0	0	149	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.18	0.10	0.02	0.73	0.09	0.03	0.21

Intersection Summary

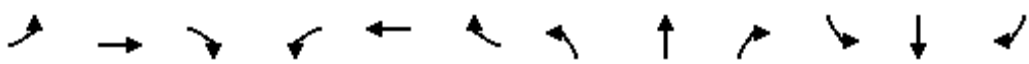
95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

1: County Road & Sunrise Avenue

EX AM

12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕		↕	↕			↕	↕	↕	↕	
Traffic Volume (vph)	47	18	29	46	19	7	35	634	83	9	198	28
Future Volume (vph)	47	18	29	46	19	7	35	634	83	9	198	28
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Lane Util. Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Frt		0.96		1.00	0.96			1.00	0.85	1.00	0.98	
Flt Protected		0.98		0.95	1.00			1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1741		1770	1790			1858	1583	1770	1829	
Flt Permitted		0.83		0.62	1.00			0.97	1.00	0.26	1.00	
Satd. Flow (perm)		1480		1149	1790			1816	1583	482	1829	
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
Adj. Flow (vph)	49	19	31	48	20	7	37	667	87	9	208	29
RTOR Reduction (vph)	0	22	0	0	5	0	0	0	38	0	4	0
Lane Group Flow (vph)	0	77	0	48	22	0	0	704	49	9	233	0
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		8		7	4			2			6	
Permitted Phases	8			4			2		2	6		
Actuated Green, G (s)		8.2		18.8	18.8			39.5	39.5	39.5	39.5	
Effective Green, g (s)		8.2		18.8	18.8			39.5	39.5	39.5	39.5	
Actuated g/C Ratio		0.12		0.27	0.27			0.56	0.56	0.56	0.56	
Clearance Time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Vehicle Extension (s)		3.0		3.0	3.0			3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		172		347	478			1020	889	270	1027	
v/s Ratio Prot				c0.01	0.01						0.13	
v/s Ratio Perm		c0.05		0.03				c0.39	0.03	0.02		
v/c Ratio		0.45		0.14	0.05			0.69	0.05	0.03	0.23	
Uniform Delay, d1		28.9		19.8	19.1			11.0	7.0	6.9	7.7	
Progression Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Incremental Delay, d2		1.8		0.2	0.0			3.8	0.1	0.2	0.5	
Delay (s)		30.8		19.9	19.1			14.8	7.1	7.1	8.2	
Level of Service		C		B	B			B	A	A	A	
Approach Delay (s)		30.8			19.7			14.0			8.2	
Approach LOS		C			B			B			A	
Intersection Summary												
HCM 2000 Control Delay			14.5			HCM 2000 Level of Service				B		
HCM 2000 Volume to Capacity ratio			0.61									
Actuated Cycle Length (s)			70.3			Sum of lost time (s)			18.0			
Intersection Capacity Utilization			79.0%			ICU Level of Service			D			
Analysis Period (min)			15									
c Critical Lane Group												

Timings 2: County Road & Sunset Avenue

EX AM
12/20/2022

									
Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	28	5	42	8	5	52	721	2	258
Future Volume (vph)	28	5	42	8	5	52	721	2	258
Turn Type	Perm	NA	Perm	Perm	NA	Perm	NA	Perm	NA
Protected Phases		8			4		6		2
Permitted Phases	8		8	4		6		2	
Detector Phase	8	8	8	4	4	6	6	2	2
Switch Phase									
Minimum Initial (s)	15.0	15.0	15.0	15.0	15.0	10.0	10.0	10.0	10.0
Minimum Split (s)	30.5	30.5	30.5	30.5	30.5	25.5	25.5	25.5	25.5
Total Split (s)	25.0	25.0	25.0	25.0	25.0	60.0	60.0	60.0	60.0
Total Split (%)	29.4%	29.4%	29.4%	29.4%	29.4%	70.6%	70.6%	70.6%	70.6%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5	4.5		4.5		4.5		4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Max	Max	Max	Max
Act Efect Green (s)		15.1	15.1		15.1		65.9		65.9
Actuated g/C Ratio		0.19	0.19		0.19		0.83		0.83
v/c Ratio		0.13	0.13		0.06		0.32		0.10
Control Delay		29.2	10.1		24.2		3.7		2.9
Queue Delay		0.0	0.0		0.0		0.3		0.0
Total Delay		29.2	10.1		24.2		4.0		2.9
LOS		C	B		C		A		A
Approach Delay		18.4			24.2		4.0		2.9
Approach LOS		B			C		A		A
Intersection Summary									
Cycle Length: 85									
Actuated Cycle Length: 79.8									
Natural Cycle: 60									
Control Type: Actuated-Uncoordinated									
Maximum v/c Ratio: 0.32									
Intersection Signal Delay: 5.0					Intersection LOS: A				
Intersection Capacity Utilization 54.3%					ICU Level of Service A				
Analysis Period (min) 15									

Splits and Phases: 2: County Road & Sunset Avenue



Queues
2: County Road & Sunset Avenue

EX AM
12/20/2022

					
Lane Group	EBT	EBR	WBT	NBT	SBT
Lane Group Flow (vph)	34	44	17	840	289
v/c Ratio	0.13	0.13	0.06	0.32	0.10
Control Delay	29.2	10.1	24.2	3.7	2.9
Queue Delay	0.0	0.0	0.0	0.3	0.0
Total Delay	29.2	10.1	24.2	4.0	2.9
Queue Length 50th (ft)	17	0	6	74	20
Queue Length 95th (ft)	39	26	22	101	31
Internal Link Dist (ft)	526		57	231	316
Turn Bay Length (ft)					
Base Capacity (vph)	358	441	408	2654	2762
Starvation Cap Reductn	0	0	0	1115	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.09	0.10	0.04	0.55	0.10
Intersection Summary					

HCM Signalized Intersection Capacity Analysis

2: County Road & Sunset Avenue

EX AM
12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	28	5	42	8	5	4	52	721	25	2	258	14
Future Volume (vph)	28	5	42	8	5	4	52	721	25	2	258	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.5	4.5		4.5			4.5			4.5	
Lane Util. Factor		1.00	1.00		1.00			0.95			0.95	
Frt		1.00	0.85		0.97			1.00			0.99	
Flt Protected		0.96	1.00		0.98			1.00			1.00	
Satd. Flow (prot)		1787	1583		1762			3511			3510	
Flt Permitted		0.75	1.00		0.87			0.91			0.95	
Satd. Flow (perm)		1389	1583		1571			3212			3345	
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
Adj. Flow (vph)	29	5	44	8	5	4	55	759	26	2	272	15
RTOR Reduction (vph)	0	0	39	0	4	0	0	2	0	0	3	0
Lane Group Flow (vph)	0	34	5	0	13	0	0	838	0	0	286	0
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		8			4			6			2	
Permitted Phases	8		8	4			6			2		
Actuated Green, G (s)		8.7	8.7		8.7			64.0			64.0	
Effective Green, g (s)		8.7	8.7		8.7			64.0			64.0	
Actuated g/C Ratio		0.11	0.11		0.11			0.78			0.78	
Clearance Time (s)		4.5	4.5		4.5			4.5			4.5	
Vehicle Extension (s)		3.0	3.0		3.0			3.0			3.0	
Lane Grp Cap (vph)		147	168		167			2516			2620	
v/s Ratio Prot												
v/s Ratio Perm		c0.02	0.00		0.01			c0.26			0.09	
v/c Ratio		0.23	0.03		0.08			0.33			0.11	
Uniform Delay, d1		33.4	32.7		32.9			2.6			2.1	
Progression Factor		1.00	1.00		1.00			1.00			1.00	
Incremental Delay, d2		0.8	0.1		0.2			0.4			0.1	
Delay (s)		34.2	32.8		33.1			3.0			2.2	
Level of Service		C	C		C			A			A	
Approach Delay (s)		33.4			33.1			3.0			2.2	
Approach LOS		C			C			A			A	
Intersection Summary												
HCM 2000 Control Delay			5.1									
HCM 2000 Level of Service											A	
HCM 2000 Volume to Capacity ratio			0.32									
Actuated Cycle Length (s)			81.7								9.0	
Intersection Capacity Utilization			54.3%								A	
ICU Level of Service												
Analysis Period (min)			15									
c Critical Lane Group												

Timings 3: Royal Poinciana Way N & County Road

EX AM
12/20/2022

								
Lane Group	EBL	EBT	EBR	WBT	WBR	NBL	NBT	SBT
Lane Configurations								
Traffic Volume (vph)	289	49	189	36	8	101	517	186
Future Volume (vph)	289	49	189	36	8	101	517	186
Turn Type	Split	NA	Prot	NA	Prot	custom	NA	NA
Protected Phases	3	3	3	4	4		1 2	1
Permitted Phases						2		
Detector Phase	3	3	3	4	4	2	1 2	1
Switch Phase								
Minimum Initial (s)	15.0	15.0	15.0	10.0	10.0	5.0		20.0
Minimum Split (s)	27.0	27.0	27.0	27.0	27.0	22.5		27.0
Total Split (s)	25.0	25.0	25.0	20.0	20.0	20.0		40.0
Total Split (%)	23.8%	23.8%	23.8%	19.0%	19.0%	19.0%		38.1%
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0		1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0			0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0			4.0
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag		Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes		Yes
Recall Mode	None	None	None	None	None	Max		None
Act Effect Green (s)	17.0	17.0	17.0	10.3	10.3		45.2	24.6
Actuated g/C Ratio	0.22	0.22	0.22	0.13	0.13		0.58	0.32
v/c Ratio	0.48	0.48	0.40	0.18	0.03		0.41	0.27
Control Delay	34.4	34.4	7.5	37.5	0.1		11.0	13.8
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0
Total Delay	34.4	34.4	7.5	37.5	0.1		11.0	13.8
LOS	C	C	A	D	A		B	B
Approach Delay		24.7		31.6			11.0	13.8
Approach LOS		C		C			B	B

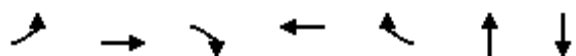
Intersection Summary

Cycle Length: 105
Actuated Cycle Length: 78
Natural Cycle: 105
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.48
Intersection Signal Delay: 16.9
Intersection Capacity Utilization 61.6%
Analysis Period (min) 15

Intersection LOS: B
ICU Level of Service B

Splits and Phases: 3: Royal Poinciana Way N & County Road





Lane Group	EBL	EBT	EBR	WBT	WBR	NBT	SBT
Lane Group Flow (vph)	176	180	199	43	8	707	311
v/c Ratio	0.48	0.48	0.40	0.18	0.03	0.41	0.27
Control Delay	34.4	34.4	7.5	37.5	0.1	11.0	13.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	34.4	34.4	7.5	37.5	0.1	11.0	13.8
Queue Length 50th (ft)	84	86	0	19	0	103	38
Queue Length 95th (ft)	170	173	56	58	0	167	75
Internal Link Dist (ft)		446		441		319	231
Turn Bay Length (ft)							
Base Capacity (vph)	466	473	582	391	408	1694	1650
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.38	0.38	0.34	0.11	0.02	0.42	0.19
Intersection Summary							

HCM Signalized Intersection Capacity Analysis

3: Royal Poinciana Way N & County Road

EX AM
12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	289	49	189	5	36	8	101	517	54	0	186	109
Future Volume (vph)	289	49	189	5	36	8	101	517	54	0	186	109
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0		4.0	4.0		4.0			4.0	
Lane Util. Factor	0.95	0.95	1.00		1.00	1.00		0.95			0.95	
Frt	1.00	1.00	0.85		1.00	0.85		0.99			0.94	
Flt Protected	0.95	0.97	1.00		0.99	1.00		0.99			1.00	
Satd. Flow (prot)	1681	1709	1583		1852	1583		3470			3343	
Flt Permitted	0.95	0.97	1.00		0.99	1.00		0.84			1.00	
Satd. Flow (perm)	1681	1709	1583		1852	1583		2934			3343	
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
Adj. Flow (vph)	304	52	199	5	38	8	106	544	57	0	196	115
RTOR Reduction (vph)	0	0	156	0	0	7	0	6	0	0	79	0
Lane Group Flow (vph)	176	180	43	0	43	1	0	701	0	0	232	0
Turn Type	Split	NA	Prot	Split	NA	Prot	custom	NA			NA	
Protected Phases	3	3	3	4	4	4		1 2			1	
Permitted Phases							2					
Actuated Green, G (s)	17.0	17.0	17.0		5.4	5.4		45.1			24.6	
Effective Green, g (s)	17.0	17.0	17.0		5.4	5.4		45.1			24.6	
Actuated g/C Ratio	0.21	0.21	0.21		0.07	0.07		0.57			0.31	
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0					4.0	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0					3.0	
Lane Grp Cap (vph)	359	365	338		125	107		1664			1034	
v/s Ratio Prot	0.10	c0.11	0.03		c0.02	0.00					0.07	
v/s Ratio Perm								c0.24				
v/c Ratio	0.49	0.49	0.13		0.34	0.01		0.42			0.22	
Uniform Delay, d1	27.4	27.5	25.2		35.4	34.5		9.8			20.4	
Progression Factor	1.00	1.00	1.00		1.00	1.00		1.00			1.00	
Incremental Delay, d2	1.1	1.1	0.2		1.7	0.0		0.2			0.1	
Delay (s)	28.5	28.5	25.4		37.0	34.6		10.0			20.5	
Level of Service	C	C	C		D	C		A			C	
Approach Delay (s)		27.4			36.6			10.0			20.5	
Approach LOS		C			D			A			C	
Intersection Summary												
HCM 2000 Control Delay			18.8				HCM 2000 Level of Service				B	
HCM 2000 Volume to Capacity ratio			0.46									
Actuated Cycle Length (s)			79.5				Sum of lost time (s)			16.0		
Intersection Capacity Utilization			61.6%				ICU Level of Service			B		
Analysis Period (min)			15									
c Critical Lane Group												

Timings

1: County Road & Sunrise Avenue

EX PM
12/20/2022



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations		↔	↔	↔		↔	↔	↔	↔
Traffic Volume (vph)	36	22	70	54	49	260	77	12	590
Future Volume (vph)	36	22	70	54	49	260	77	12	590
Turn Type	Perm	NA	pm+pt	NA	Perm	NA	Perm	Perm	NA
Protected Phases		8	7	4		2			6
Permitted Phases	8		4		2		2	6	
Detector Phase	8	8	7	4	2	2	2	6	6
Switch Phase									
Minimum Initial (s)	10.0	10.0	7.0	10.0	20.0	20.0	20.0	20.0	20.0
Minimum Split (s)	31.0	31.0	13.0	31.0	26.0	26.0	26.0	26.0	26.0
Total Split (s)	30.0	30.0	20.0	50.0	40.0	40.0	40.0	40.0	40.0
Total Split (%)	33.3%	33.3%	22.2%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Lost Time (s)		6.0	6.0	6.0		6.0	6.0	6.0	6.0
Lead/Lag	Lag	Lag	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes						
Recall Mode	None	None	None	None	Max	Max	Max	Max	Max
Act Effect Green (s)		10.7	22.6	22.6		37.1	37.1	37.1	37.1
Actuated g/C Ratio		0.15	0.32	0.32		0.52	0.52	0.52	0.52
v/c Ratio		0.49	0.19	0.12		0.49	0.09	0.03	0.72
Control Delay		21.3	16.5	13.7		16.3	1.9	11.3	21.0
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Delay		21.3	16.5	13.7		16.3	1.9	11.3	21.0
LOS		C	B	B		B	A	B	C
Approach Delay		21.3		15.2		13.4			20.8
Approach LOS		C		B		B			C

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 71.7

Natural Cycle: 80

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.72

Intersection Signal Delay: 18.1

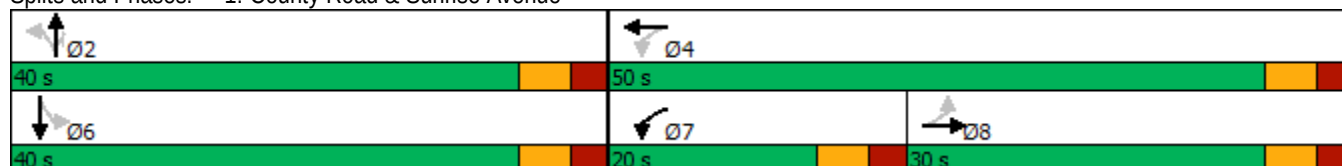
Intersection LOS: B

Intersection Capacity Utilization 79.9%

ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 1: County Road & Sunrise Avenue





Lane Group	EBT	WBL	WBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	140	74	68	326	81	13	684
v/c Ratio	0.49	0.19	0.12	0.49	0.09	0.03	0.72
Control Delay	21.3	16.5	13.7	16.3	1.9	11.3	21.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	21.3	16.5	13.7	16.3	1.9	11.3	21.0
Queue Length 50th (ft)	27	21	16	91	0	3	225
Queue Length 95th (ft)	80	47	40	192	15	13	#477
Internal Link Dist (ft)	482		146	316			333
Turn Bay Length (ft)						160	
Base Capacity (vph)	557	466	1121	669	871	514	953
Starvation Cap Reductn	0	0	0	8	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.25	0.16	0.06	0.49	0.09	0.03	0.72

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

1: County Road & Sunrise Avenue

EX PM

12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	36	22	75	70	54	10	49	260	77	12	590	60
Future Volume (vph)	36	22	75	70	54	10	49	260	77	12	590	60
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Lane Util. Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Frt		0.92		1.00	0.98			1.00	0.85	1.00	0.99	
Flt Protected		0.99		0.95	1.00			0.99	1.00	0.95	1.00	
Satd. Flow (prot)		1698		1770	1818			1848	1583	1770	1837	
Flt Permitted		0.88		0.49	1.00			0.70	1.00	0.53	1.00	
Satd. Flow (perm)		1523		920	1818			1295	1583	995	1837	
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
Adj. Flow (vph)	38	23	79	74	57	11	52	274	81	13	621	63
RTOR Reduction (vph)	0	61	0	0	7	0	0	0	40	0	3	0
Lane Group Flow (vph)	0	79	0	74	61	0	0	326	41	13	681	0
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		8		7	4			2			6	
Permitted Phases	8			4			2		2	6		
Actuated Green, G (s)		10.7		23.8	23.8			37.1	37.1	37.1	37.1	
Effective Green, g (s)		10.7		23.8	23.8			37.1	37.1	37.1	37.1	
Actuated g/C Ratio		0.15		0.33	0.33			0.51	0.51	0.51	0.51	
Clearance Time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Vehicle Extension (s)		3.0		3.0	3.0			3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		223		383	593			659	805	506	934	
v/s Ratio Prot				c0.02	0.03						c0.37	
v/s Ratio Perm		c0.05		0.04				0.25	0.03	0.01		
v/c Ratio		0.36		0.19	0.10			0.49	0.05	0.03	0.73	
Uniform Delay, d1		28.0		17.9	17.1			11.7	9.0	8.9	14.0	
Progression Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Incremental Delay, d2		1.0		0.2	0.1			2.6	0.1	0.1	5.0	
Delay (s)		29.0		18.1	17.2			14.4	9.1	9.0	18.9	
Level of Service		C		B	B			B	A	A	B	
Approach Delay (s)		29.0			17.7			13.3			18.8	
Approach LOS		C			B			B			B	
Intersection Summary												
HCM 2000 Control Delay			18.1		HCM 2000 Level of Service				B			
HCM 2000 Volume to Capacity ratio			0.59									
Actuated Cycle Length (s)			72.9		Sum of lost time (s)				18.0			
Intersection Capacity Utilization			79.9%		ICU Level of Service				D			
Analysis Period (min)			15									
c Critical Lane Group												

Timings 2: County Road & Sunset Avenue

EX PM
12/20/2022

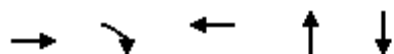
									
Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	22	4	101	5	12	78	359	2	716
Future Volume (vph)	22	4	101	5	12	78	359	2	716
Turn Type	Perm	NA	Perm	Perm	NA	Perm	NA	Perm	NA
Protected Phases		8			4		6		2
Permitted Phases	8		8	4		6		2	
Detector Phase	8	8	8	4	4	6	6	2	2
Switch Phase									
Minimum Initial (s)	15.0	15.0	15.0	15.0	15.0	10.0	10.0	10.0	10.0
Minimum Split (s)	30.5	30.5	30.5	30.5	30.5	25.5	25.5	25.5	25.5
Total Split (s)	25.0	25.0	25.0	25.0	25.0	60.0	60.0	60.0	60.0
Total Split (%)	29.4%	29.4%	29.4%	29.4%	29.4%	70.6%	70.6%	70.6%	70.6%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5	4.5		4.5		4.5		4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Max	Max	Max	Max
Act Efect Green (s)		15.1	15.1		15.1		62.4		62.4
Actuated g/C Ratio		0.19	0.19		0.19		0.77		0.77
v/c Ratio		0.10	0.28		0.07		0.23		0.30
Control Delay		28.3	8.3		22.8		4.2		4.3
Queue Delay		0.0	0.0		0.0		0.0		0.2
Total Delay		28.3	8.3		22.8		4.2		4.6
LOS		C	A		C		A		A
Approach Delay		12.4			22.8		4.2		4.6
Approach LOS		B			C		A		A
Intersection Summary									
Cycle Length: 85									
Actuated Cycle Length: 81.3									
Natural Cycle: 60									
Control Type: Actuated-Uncoordinated									
Maximum v/c Ratio: 0.30									
Intersection Signal Delay: 5.5					Intersection LOS: A				
Intersection Capacity Utilization 56.8%					ICU Level of Service B				
Analysis Period (min) 15									

Splits and Phases: 2: County Road & Sunset Avenue



Queues
2: County Road & Sunset Avenue

EX PM
12/20/2022



Lane Group	EBT	EBR	WBT	NBT	SBT
Lane Group Flow (vph)	27	106	24	468	779
v/c Ratio	0.10	0.28	0.07	0.23	0.30
Control Delay	28.3	8.3	22.8	4.2	4.3
Queue Delay	0.0	0.0	0.0	0.0	0.2
Total Delay	28.3	8.3	22.8	4.2	4.6
Queue Length 50th (ft)	11	0	7	37	65
Queue Length 95th (ft)	33	40	27	55	90
Internal Link Dist (ft)	526		57	231	316
Turn Bay Length (ft)					
Base Capacity (vph)	372	480	439	1999	2581
Starvation Cap Reductn	0	0	0	0	940
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.07	0.22	0.05	0.23	0.47
Intersection Summary					

HCM Signalized Intersection Capacity Analysis

2: County Road & Sunset Avenue

EX PM

12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	22	4	101	5	12	6	78	359	8	2	716	22
Future Volume (vph)	22	4	101	5	12	6	78	359	8	2	716	22
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.5	4.5		4.5			4.5			4.5	
Lane Util. Factor		1.00	1.00		1.00			0.95			0.95	
Frt		1.00	0.85		0.97			1.00			1.00	
Flt Protected		0.96	1.00		0.99			0.99			1.00	
Satd. Flow (prot)		1787	1583		1781			3499			3523	
Flt Permitted		0.79	1.00		0.95			0.74			0.95	
Satd. Flow (perm)		1468	1583		1717			2607			3363	
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
Adj. Flow (vph)	23	4	106	5	13	6	82	378	8	2	754	23
RTOR Reduction (vph)	0	0	91	0	5	0	0	1	0	0	2	0
Lane Group Flow (vph)	0	27	15	0	19	0	0	467	0	0	777	0
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		8			4			6			2	
Permitted Phases	8		8	4			6			2		
Actuated Green, G (s)		11.8	11.8		11.8			61.4			61.4	
Effective Green, g (s)		11.8	11.8		11.8			61.4			61.4	
Actuated g/C Ratio		0.14	0.14		0.14			0.75			0.75	
Clearance Time (s)		4.5	4.5		4.5			4.5			4.5	
Vehicle Extension (s)		3.0	3.0		3.0			3.0			3.0	
Lane Grp Cap (vph)		210	227		246			1947			2512	
v/s Ratio Prot												
v/s Ratio Perm		c0.02	0.01		0.01			0.18			c0.23	
v/c Ratio		0.13	0.07		0.08			0.24			0.31	
Uniform Delay, d1		30.7	30.4		30.5			3.2			3.4	
Progression Factor		1.00	1.00		1.00			1.00			1.00	
Incremental Delay, d2		0.3	0.1		0.1			0.3			0.3	
Delay (s)		31.0	30.6		30.6			3.5			3.7	
Level of Service		C	C		C			A			A	
Approach Delay (s)		30.7			30.6			3.5			3.7	
Approach LOS		C			C			A			A	
Intersection Summary												
HCM 2000 Control Delay			6.7									
HCM 2000 Volume to Capacity ratio			0.28									
Actuated Cycle Length (s)			82.2									
Intersection Capacity Utilization			56.8%									
Analysis Period (min)			15									
c Critical Lane Group												

Timings 3: Royal Poinciana Way N & County Road

EX PM
12/20/2022

								
Lane Group	EBL	EBT	EBR	WBT	WBR	NBL	NBT	SBT
Lane Configurations								
Traffic Volume (vph)	125	44	141	76	21	180	306	444
Future Volume (vph)	125	44	141	76	21	180	306	444
Turn Type	Split	NA	Prot	NA	Prot	custom	NA	NA
Protected Phases	3	3	3	4	4		1 2	1
Permitted Phases						2		
Detector Phase	3	3	3	4	4	2	1 2	1
Switch Phase								
Minimum Initial (s)	15.0	15.0	15.0	10.0	10.0	5.0		20.0
Minimum Split (s)	27.0	27.0	27.0	27.0	27.0	22.5		27.0
Total Split (s)	25.0	25.0	25.0	20.0	20.0	20.0		40.0
Total Split (%)	23.8%	23.8%	23.8%	19.0%	19.0%	19.0%		38.1%
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0		1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0			0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0			4.0
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag		Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes		Yes
Recall Mode	None	None	None	None	None	Max		None
Act Effect Green (s)	15.2	15.2	15.2	12.2	12.2		49.7	29.5
Actuated g/C Ratio	0.17	0.17	0.17	0.14	0.14		0.56	0.33
v/c Ratio	0.31	0.31	0.38	0.51	0.07		0.52	0.70
Control Delay	38.6	38.5	9.6	44.7	0.5		14.4	22.1
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	1.0
Total Delay	38.6	38.5	9.6	44.7	0.5		14.4	23.0
LOS	D	D	A	D	A		B	C
Approach Delay		25.4		38.2			14.4	23.0
Approach LOS		C		D			B	C

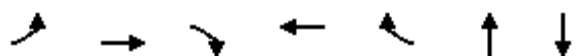
Intersection Summary

Cycle Length: 105
Actuated Cycle Length: 89.2
Natural Cycle: 105
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.70
Intersection Signal Delay: 22.2
Intersection Capacity Utilization 64.2%
Analysis Period (min) 15

Intersection LOS: C
ICU Level of Service C

Splits and Phases: 3: Royal Poinciana Way N & County Road





Lane Group	EBL	EBT	EBR	WBT	WBR	NBT	SBT
Lane Group Flow (vph)	88	90	148	127	22	539	864
v/c Ratio	0.31	0.31	0.38	0.51	0.07	0.52	0.70
Control Delay	38.6	38.5	9.6	44.7	0.5	14.4	22.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Delay	38.6	38.5	9.6	44.7	0.5	14.4	23.0
Queue Length 50th (ft)	47	48	0	69	0	89	161
Queue Length 95th (ft)	103	105	54	131	0	149	243
Internal Link Dist (ft)		446		441		319	231
Turn Bay Length (ft)							
Base Capacity (vph)	399	410	488	331	363	1029	1473
Starvation Cap Reductn	0	0	0	0	0	0	335
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.22	0.22	0.30	0.38	0.06	0.52	0.76
Intersection Summary							

HCM Signalized Intersection Capacity Analysis

3: Royal Poinciana Way N & County Road

EX PM
12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	125	44	141	45	76	21	180	306	27	0	444	377
Future Volume (vph)	125	44	141	45	76	21	180	306	27	0	444	377
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0		4.0	4.0		4.0			4.0	
Lane Util. Factor	0.95	0.95	1.00		1.00	1.00		0.95			0.95	
Frt	1.00	1.00	0.85		1.00	0.85		0.99			0.93	
Flt Protected	0.95	0.98	1.00		0.98	1.00		0.98			1.00	
Satd. Flow (prot)	1681	1727	1583		1829	1583		3451			3295	
Flt Permitted	0.95	0.98	1.00		0.98	1.00		0.52			1.00	
Satd. Flow (perm)	1681	1727	1583		1829	1583		1842			3295	
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
Adj. Flow (vph)	132	46	148	47	80	22	189	322	28	0	467	397
RTOR Reduction (vph)	0	0	123	0	0	19	0	4	0	0	149	0
Lane Group Flow (vph)	88	90	25	0	127	3	0	535	0	0	715	0
Turn Type	Split	NA	Prot	Split	NA	Prot	custom	NA			NA	
Protected Phases	3	3	3	4	4	4		1 2			1	
Permitted Phases							2					
Actuated Green, G (s)	15.2	15.2	15.2		12.2	12.2		49.6			29.5	
Effective Green, g (s)	15.2	15.2	15.2		12.2	12.2		49.6			29.5	
Actuated g/C Ratio	0.17	0.17	0.17		0.14	0.14		0.56			0.33	
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0					4.0	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0					3.0	
Lane Grp Cap (vph)	287	294	270		250	216		1026			1092	
v/s Ratio Prot	c0.05	0.05	0.02		c0.07	0.00					c0.22	
v/s Ratio Perm								c0.29				
v/c Ratio	0.31	0.31	0.09		0.51	0.01		0.52			0.65	
Uniform Delay, d1	32.3	32.3	31.1		35.6	33.2		12.3			25.4	
Progression Factor	1.00	1.00	1.00		1.00	1.00		1.00			1.00	
Incremental Delay, d2	0.6	0.6	0.2		1.6	0.0		0.5			1.4	
Delay (s)	32.9	32.9	31.2		37.2	33.2		12.8			26.8	
Level of Service	C	C	C		D	C		B			C	
Approach Delay (s)		32.1			36.6			12.8			26.8	
Approach LOS		C			D			B			C	
Intersection Summary												
HCM 2000 Control Delay			24.5				HCM 2000 Level of Service				C	
HCM 2000 Volume to Capacity ratio			0.55									
Actuated Cycle Length (s)			89.0				Sum of lost time (s)			16.0		
Intersection Capacity Utilization			64.2%				ICU Level of Service			C		
Analysis Period (min)			15									
c Critical Lane Group												

Timings

1: County Road & Sunrise Avenue

BY AM

12/20/2022



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations		↔	↔	↔		↔	↔	↔	↔
Traffic Volume (vph)	49	19	48	20	37	666	87	9	208
Future Volume (vph)	49	19	48	20	37	666	87	9	208
Turn Type	Perm	NA	pm+pt	NA	Perm	NA	Perm	Perm	NA
Protected Phases		8	7	4		2			6
Permitted Phases	8		4		2		2	6	
Detector Phase	8	8	7	4	2	2	2	6	6
Switch Phase									
Minimum Initial (s)	10.0	10.0	7.0	10.0	20.0	20.0	20.0	20.0	20.0
Minimum Split (s)	31.0	31.0	13.0	31.0	26.0	26.0	26.0	26.0	26.0
Total Split (s)	30.0	30.0	20.0	50.0	40.0	40.0	40.0	40.0	40.0
Total Split (%)	33.3%	33.3%	22.2%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Lost Time (s)		6.0	6.0	6.0		6.0	6.0	6.0	6.0
Lead/Lag	Lag	Lag	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes						
Recall Mode	None	None	None	None	Max	Max	Max	Max	Max
Act Effect Green (s)		10.8	18.1	18.8		40.7	40.7	40.7	40.7
Actuated g/C Ratio		0.16	0.27	0.28		0.61	0.61	0.61	0.61
v/c Ratio		0.40	0.13	0.05		0.67	0.09	0.03	0.22
Control Delay		26.9	16.6	12.5		18.7	2.3	11.3	10.4
Queue Delay		0.0	0.0	0.0		0.8	0.0	0.0	0.0
Total Delay		26.9	16.6	12.5		19.5	2.3	11.3	10.4
LOS		C	B	B		B	A	B	B
Approach Delay		26.9		15.2		17.6			10.4
Approach LOS		C		B		B			B

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 66.4

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.67

Intersection Signal Delay: 16.7

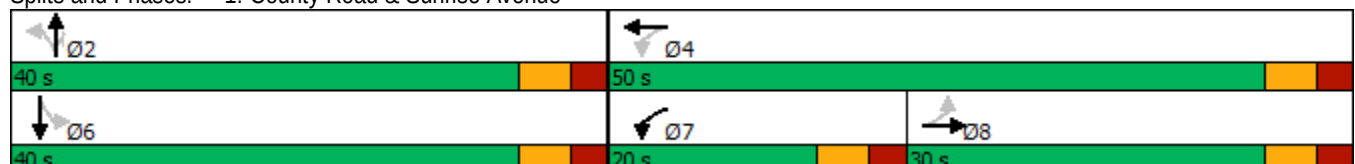
Intersection LOS: B

Intersection Capacity Utilization 81.0%

ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 1: County Road & Sunrise Avenue



Queues

1: County Road & Sunrise Avenue

BY AM

12/20/2022



Lane Group	EBT	WBL	WBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	104	51	28	740	92	9	250
v/c Ratio	0.40	0.13	0.05	0.67	0.09	0.03	0.22
Control Delay	26.9	16.6	12.5	18.7	2.3	11.3	10.4
Queue Delay	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Total Delay	26.9	16.6	12.5	19.5	2.3	11.3	10.4
Queue Length 50th (ft)	31	15	6	256	0	2	57
Queue Length 95th (ft)	77	36	21	#526	18	10	116
Internal Link Dist (ft)	482		146	316			333
Turn Bay Length (ft)						160	
Base Capacity (vph)	555	489	1204	1111	1013	263	1124
Starvation Cap Reductn	0	0	0	143	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.19	0.10	0.02	0.76	0.09	0.03	0.22

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

1: County Road & Sunrise Avenue

BY AM

12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	49	19	30	48	20	7	37	666	87	9	208	29
Future Volume (vph)	49	19	30	48	20	7	37	666	87	9	208	29
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Lane Util. Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Frt		0.96		1.00	0.96			1.00	0.85	1.00	0.98	
Flt Protected		0.98		0.95	1.00			1.00	1.00	0.95	1.00	
Satd. Flow (prot)		1742		1770	1793			1858	1583	1770	1828	
Flt Permitted		0.83		0.61	1.00			0.97	1.00	0.23	1.00	
Satd. Flow (perm)		1477		1142	1793			1813	1583	430	1828	
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
Adj. Flow (vph)	52	20	32	51	21	7	39	701	92	9	219	31
RTOR Reduction (vph)	0	21	0	0	5	0	0	0	41	0	4	0
Lane Group Flow (vph)	0	83	0	51	23	0	0	740	51	9	246	0
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		8		7	4			2			6	
Permitted Phases	8			4			2		2	6		
Actuated Green, G (s)		8.4		19.1	19.1			39.3	39.3	39.3	39.3	
Effective Green, g (s)		8.4		19.1	19.1			39.3	39.3	39.3	39.3	
Actuated g/C Ratio		0.12		0.27	0.27			0.56	0.56	0.56	0.56	
Clearance Time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Vehicle Extension (s)		3.0		3.0	3.0			3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		176		351	486			1012	883	240	1020	
v/s Ratio Prot				c0.01	0.01						0.13	
v/s Ratio Perm		c0.06		0.03				c0.41	0.03	0.02		
v/c Ratio		0.47		0.15	0.05			0.73	0.06	0.04	0.24	
Uniform Delay, d1		28.9		19.6	18.9			11.6	7.1	7.0	7.9	
Progression Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Incremental Delay, d2		2.0		0.2	0.0			4.7	0.1	0.3	0.6	
Delay (s)		30.9		19.8	19.0			16.3	7.2	7.3	8.5	
Level of Service		C		B	B			B	A	A	A	
Approach Delay (s)		30.9			19.5			15.3			8.5	
Approach LOS		C			B			B			A	
Intersection Summary												
HCM 2000 Control Delay			15.4			HCM 2000 Level of Service				B		
HCM 2000 Volume to Capacity ratio			0.64									
Actuated Cycle Length (s)			70.4			Sum of lost time (s)			18.0			
Intersection Capacity Utilization			81.0%			ICU Level of Service			D			
Analysis Period (min)			15									
c Critical Lane Group												

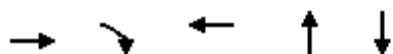
Timings 2: County Road & Sunset Avenue

BY AM
12/20/2022

									
Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	29	5	44	8	5	55	758	2	271
Future Volume (vph)	29	5	44	8	5	55	758	2	271
Turn Type	Perm	NA	Perm	Perm	NA	Perm	NA	Perm	NA
Protected Phases		8			4		6		2
Permitted Phases	8		8	4		6		2	
Detector Phase	8	8	8	4	4	6	6	2	2
Switch Phase									
Minimum Initial (s)	15.0	15.0	15.0	15.0	15.0	10.0	10.0	10.0	10.0
Minimum Split (s)	30.5	30.5	30.5	30.5	30.5	25.5	25.5	25.5	25.5
Total Split (s)	25.0	25.0	25.0	25.0	25.0	60.0	60.0	60.0	60.0
Total Split (%)	29.4%	29.4%	29.4%	29.4%	29.4%	70.6%	70.6%	70.6%	70.6%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5	4.5		4.5		4.5		4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Max	Max	Max	Max
Act Efect Green (s)		15.1	15.1		15.1		64.6		64.6
Actuated g/C Ratio		0.18	0.18		0.18		0.77		0.77
v/c Ratio		0.14	0.14		0.06		0.36		0.12
Control Delay		29.9	10.1		23.7		4.6		3.4
Queue Delay		0.0	0.0		0.0		0.5		0.0
Total Delay		29.9	10.1		23.7		5.1		3.4
LOS		C	B		C		A		A
Approach Delay		18.8			23.7		5.1		3.4
Approach LOS		B			C		A		A
Intersection Summary									
Cycle Length: 85									
Actuated Cycle Length: 83.4									
Natural Cycle: 60									
Control Type: Actuated-Uncoordinated									
Maximum v/c Ratio: 0.36									
Intersection Signal Delay: 5.8					Intersection LOS: A				
Intersection Capacity Utilization 55.5%					ICU Level of Service B				
Analysis Period (min) 15									

Splits and Phases: 2: County Road & Sunset Avenue





Lane Group	EBT	EBR	WBT	NBT	SBT
Lane Group Flow (vph)	36	46	17	883	303
v/c Ratio	0.14	0.14	0.06	0.36	0.12
Control Delay	29.9	10.1	23.7	4.6	3.4
Queue Delay	0.0	0.0	0.0	0.5	0.0
Total Delay	29.9	10.1	23.7	5.1	3.4
Queue Length 50th (ft)	17	0	6	79	21
Queue Length 95th (ft)	40	27	22	107	32
Internal Link Dist (ft)	526		57	231	316
Turn Bay Length (ft)					
Base Capacity (vph)	356	426	400	2477	2590
Starvation Cap Reductn	0	0	0	1076	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.10	0.11	0.04	0.63	0.12
Intersection Summary					

HCM Signalized Intersection Capacity Analysis

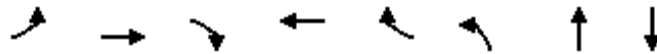
2: County Road & Sunset Avenue

BY AM
12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	29	5	44	8	5	4	55	758	26	2	271	15
Future Volume (vph)	29	5	44	8	5	4	55	758	26	2	271	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.5	4.5		4.5			4.5			4.5	
Lane Util. Factor		1.00	1.00		1.00			0.95			0.95	
Frt		1.00	0.85		0.97			1.00			0.99	
Flt Protected		0.96	1.00		0.98			1.00			1.00	
Satd. Flow (prot)		1786	1583		1762			3511			3510	
Flt Permitted		0.77	1.00		0.89			0.91			0.95	
Satd. Flow (perm)		1439	1583		1609			3200			3344	
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
Adj. Flow (vph)	31	5	46	8	5	4	58	798	27	2	285	16
RTOR Reduction (vph)	0	0	40	0	3	0	0	2	0	0	3	0
Lane Group Flow (vph)	0	36	6	0	14	0	0	881	0	0	300	0
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		8			4			6			2	
Permitted Phases	8		8	4			6			2		
Actuated Green, G (s)		11.8	11.8		11.8			63.6			63.6	
Effective Green, g (s)		11.8	11.8		11.8			63.6			63.6	
Actuated g/C Ratio		0.14	0.14		0.14			0.75			0.75	
Clearance Time (s)		4.5	4.5		4.5			4.5			4.5	
Vehicle Extension (s)		3.0	3.0		3.0			3.0			3.0	
Lane Grp Cap (vph)		201	221		224			2411			2519	
v/s Ratio Prot												
v/s Ratio Perm		c0.03	0.00		0.01			c0.28			0.09	
v/c Ratio		0.18	0.03		0.06			0.37			0.12	
Uniform Delay, d1		32.0	31.4		31.5			3.5			2.8	
Progression Factor		1.00	1.00		1.00			1.00			1.00	
Incremental Delay, d2		0.4	0.1		0.1			0.4			0.1	
Delay (s)		32.5	31.4		31.6			4.0			2.9	
Level of Service		C	C		C			A			A	
Approach Delay (s)		31.9			31.6			4.0			2.9	
Approach LOS		C			C			A			A	
Intersection Summary												
HCM 2000 Control Delay			5.9									
HCM 2000 Level of Service											A	
HCM 2000 Volume to Capacity ratio			0.34									
Actuated Cycle Length (s)			84.4								9.0	
Intersection Capacity Utilization			55.5%								B	
ICU Level of Service												
Analysis Period (min)			15									
c Critical Lane Group												

Timings 3: Royal Poinciana Way N & County Road

BY AM
12/20/2022



Lane Group	EBL	EBT	EBR	WBT	WBR	NBL	NBT	SBT
Lane Configurations								
Traffic Volume (vph)	304	51	199	38	8	106	543	195
Future Volume (vph)	304	51	199	38	8	106	543	195
Turn Type	Split	NA	Prot	NA	Prot	custom	NA	NA
Protected Phases	3	3	3	4	4		1 2	1
Permitted Phases						2		
Detector Phase	3	3	3	4	4	2	1 2	1
Switch Phase								
Minimum Initial (s)	15.0	15.0	15.0	10.0	10.0	5.0		20.0
Minimum Split (s)	27.0	27.0	27.0	27.0	27.0	22.5		27.0
Total Split (s)	25.0	25.0	25.0	20.0	20.0	20.0		40.0
Total Split (%)	23.8%	23.8%	23.8%	19.0%	19.0%	19.0%		38.1%
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0		1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0			0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0			4.0
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag		Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes		Yes
Recall Mode	None	None	None	None	None	Max		None
Act Effect Green (s)	17.3	17.3	17.3	10.4	10.4		46.4	25.7
Actuated g/C Ratio	0.22	0.22	0.22	0.13	0.13		0.58	0.32
v/c Ratio	0.51	0.51	0.41	0.19	0.03		0.44	0.28
Control Delay	35.8	35.7	7.6	38.8	0.1		11.2	13.7
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0
Total Delay	35.8	35.7	7.6	38.8	0.1		11.2	13.7
LOS	D	D	A	D	A		B	B
Approach Delay		25.7		33.0			11.2	13.7
Approach LOS		C		C			B	B

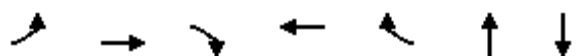
Intersection Summary

Cycle Length: 105
 Actuated Cycle Length: 79.5
 Natural Cycle: 105
 Control Type: Actuated-Uncoordinated
 Maximum v/c Ratio: 0.51
 Intersection Signal Delay: 17.3
 Intersection Capacity Utilization 63.0%
 Analysis Period (min) 15

Intersection LOS: B
 ICU Level of Service B

Splits and Phases: 3: Royal Poinciana Way N & County Road





Lane Group	EBL	EBT	EBR	WBT	WBR	NBT	SBT
Lane Group Flow (vph)	186	188	209	45	8	744	326
v/c Ratio	0.51	0.51	0.41	0.19	0.03	0.44	0.28
Control Delay	35.8	35.7	7.6	38.8	0.1	11.2	13.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	35.8	35.7	7.6	38.8	0.1	11.2	13.7
Queue Length 50th (ft)	91	92	0	21	0	112	41
Queue Length 95th (ft)	185	186	58	61	0	178	78
Internal Link Dist (ft)		446		441		319	231
Turn Bay Length (ft)							
Base Capacity (vph)	459	467	584	385	404	1705	1630
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.41	0.40	0.36	0.12	0.02	0.44	0.20
Intersection Summary							

HCM Signalized Intersection Capacity Analysis

3: Royal Poinciana Way N & County Road

BY AM

12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	304	51	199	5	38	8	106	543	57	0	195	115
Future Volume (vph)	304	51	199	5	38	8	106	543	57	0	195	115
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0		4.0	4.0		4.0			4.0	
Lane Util. Factor	0.95	0.95	1.00		1.00	1.00		0.95			0.95	
Frt	1.00	1.00	0.85		1.00	0.85		0.99			0.94	
Flt Protected	0.95	0.97	1.00		0.99	1.00		0.99			1.00	
Satd. Flow (prot)	1681	1709	1583		1852	1583		3470			3342	
Flt Permitted	0.95	0.97	1.00		0.99	1.00		0.83			1.00	
Satd. Flow (perm)	1681	1709	1583		1852	1583		2911			3342	
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
Adj. Flow (vph)	320	54	209	5	40	8	112	572	60	0	205	121
RTOR Reduction (vph)	0	0	164	0	0	7	0	6	0	0	83	0
Lane Group Flow (vph)	186	188	45	0	45	1	0	738	0	0	243	0
Turn Type	Split	NA	Prot	Split	NA	Prot	custom	NA			NA	
Protected Phases	3	3	3	4	4	4		1 2			1	
Permitted Phases							2					
Actuated Green, G (s)	17.3	17.3	17.3		5.4	5.4		46.3			25.7	
Effective Green, g (s)	17.3	17.3	17.3		5.4	5.4		46.3			25.7	
Actuated g/C Ratio	0.21	0.21	0.21		0.07	0.07		0.57			0.32	
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0					4.0	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0					3.0	
Lane Grp Cap (vph)	359	365	338		123	105		1663			1060	
v/s Ratio Prot	c0.11	0.11	0.03		c0.02	0.00					0.07	
v/s Ratio Perm								c0.25				
v/c Ratio	0.52	0.52	0.13		0.37	0.01		0.44			0.23	
Uniform Delay, d1	28.2	28.1	25.8		36.2	35.3		10.0			20.4	
Progression Factor	1.00	1.00	1.00		1.00	1.00		1.00			1.00	
Incremental Delay, d2	1.3	1.2	0.2		1.8	0.0		0.2			0.1	
Delay (s)	29.4	29.4	26.0		38.0	35.3		10.2			20.5	
Level of Service	C	C	C		D	D		B			C	
Approach Delay (s)		28.2			37.6			10.2			20.5	
Approach LOS		C			D			B			C	
Intersection Summary												
HCM 2000 Control Delay			19.1				HCM 2000 Level of Service				B	
HCM 2000 Volume to Capacity ratio			0.48									
Actuated Cycle Length (s)			81.0				Sum of lost time (s)			16.0		
Intersection Capacity Utilization			63.0%				ICU Level of Service			B		
Analysis Period (min)			15									
c Critical Lane Group												

Timings 1: County Road & Sunrise Avenue

BY PM
12/20/2022

									
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	38	23	74	57	51	273	81	13	620
Future Volume (vph)	38	23	74	57	51	273	81	13	620
Turn Type	Perm	NA	pm+pt	NA	Perm	NA	Perm	Perm	NA
Protected Phases		8	7	4		2			6
Permitted Phases	8		4		2		2	6	
Detector Phase	8	8	7	4	2	2	2	6	6
Switch Phase									
Minimum Initial (s)	10.0	10.0	7.0	10.0	20.0	20.0	20.0	20.0	20.0
Minimum Split (s)	31.0	31.0	13.0	31.0	26.0	26.0	26.0	26.0	26.0
Total Split (s)	30.0	30.0	20.0	50.0	40.0	40.0	40.0	40.0	40.0
Total Split (%)	33.3%	33.3%	22.2%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Lost Time (s)		6.0	6.0	6.0		6.0	6.0	6.0	6.0
Lead/Lag	Lag	Lag	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes						
Recall Mode	None	None	None	None	Max	Max	Max	Max	Max
Act Effect Green (s)		10.9	23.0	23.0		37.1	37.1	37.1	37.1
Actuated g/C Ratio		0.15	0.32	0.32		0.51	0.51	0.51	0.51
v/c Ratio		0.51	0.20	0.12		0.56	0.10	0.03	0.76
Control Delay		22.3	16.5	13.6		18.5	2.2	11.7	23.0
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Delay		22.3	16.5	13.6		18.5	2.2	11.7	23.0
LOS		C	B	B		B	A	B	C
Approach Delay		22.3		15.1		15.3			22.8
Approach LOS		C		B		B			C

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 72.1

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.76

Intersection Signal Delay: 19.8

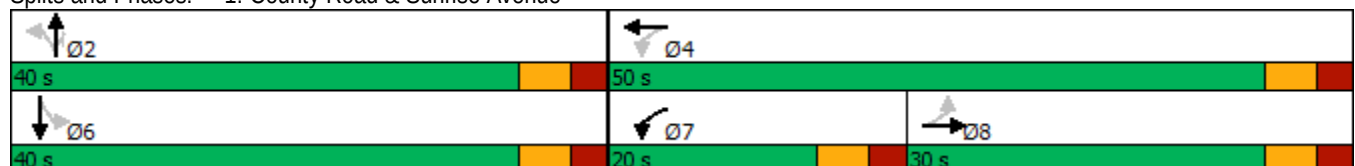
Intersection LOS: B

Intersection Capacity Utilization 82.7%

ICU Level of Service E

Analysis Period (min) 15

Splits and Phases: 1: County Road & Sunrise Avenue



1: County Road & Sunrise Avenue

12/20/2022



Lane Group	EBT	WBL	WBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	147	78	72	341	85	14	719
v/c Ratio	0.51	0.20	0.12	0.56	0.10	0.03	0.76
Control Delay	22.3	16.5	13.6	18.5	2.2	11.7	23.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	22.3	16.5	13.6	18.5	2.2	11.7	23.0
Queue Length 50th (ft)	30	23	17	100	0	3	245
Queue Length 95th (ft)	85	49	42	220	16	14	#526
Internal Link Dist (ft)	482		146	316			333
Turn Bay Length (ft)						160	
Base Capacity (vph)	554	466	1115	611	867	497	948
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.27	0.17	0.06	0.56	0.10	0.03	0.76

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

1: County Road & Sunrise Avenue

BY PM

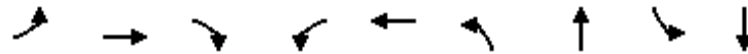
12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	38	23	79	74	57	11	51	273	81	13	620	63
Future Volume (vph)	38	23	79	74	57	11	51	273	81	13	620	63
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Lane Util. Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Frt		0.92		1.00	0.97			1.00	0.85	1.00	0.99	
Flt Protected		0.99		0.95	1.00			0.99	1.00	0.95	1.00	
Satd. Flow (prot)		1698		1770	1816			1848	1583	1770	1837	
Flt Permitted		0.88		0.48	1.00			0.64	1.00	0.52	1.00	
Satd. Flow (perm)		1520		902	1816			1188	1583	967	1837	
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
Adj. Flow (vph)	40	24	83	78	60	12	54	287	85	14	653	66
RTOR Reduction (vph)	0	60	0	0	8	0	0	0	42	0	3	0
Lane Group Flow (vph)	0	87	0	78	64	0	0	341	43	14	716	0
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		8		7	4			2			6	
Permitted Phases	8			4			2		2	6		
Actuated Green, G (s)		10.9		24.1	24.1			37.1	37.1	37.1	37.1	
Effective Green, g (s)		10.9		24.1	24.1			37.1	37.1	37.1	37.1	
Actuated g/C Ratio		0.15		0.33	0.33			0.51	0.51	0.51	0.51	
Clearance Time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Vehicle Extension (s)		3.0		3.0	3.0			3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		226		382	597			602	802	490	931	
v/s Ratio Prot				c0.02	0.04						c0.39	
v/s Ratio Perm		c0.06		0.05				0.29	0.03	0.01		
v/c Ratio		0.38		0.20	0.11			0.57	0.05	0.03	0.77	
Uniform Delay, d1		28.1		17.9	17.1			12.5	9.2	9.0	14.6	
Progression Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Incremental Delay, d2		1.1		0.3	0.1			3.8	0.1	0.1	6.1	
Delay (s)		29.2		18.1	17.1			16.3	9.3	9.1	20.7	
Level of Service		C		B	B			B	A	A	C	
Approach Delay (s)		29.2			17.7			14.9			20.5	
Approach LOS		C			B			B			C	
Intersection Summary												
HCM 2000 Control Delay			19.4			HCM 2000 Level of Service				B		
HCM 2000 Volume to Capacity ratio			0.63									
Actuated Cycle Length (s)			73.2			Sum of lost time (s)			18.0			
Intersection Capacity Utilization			82.7%			ICU Level of Service			E			
Analysis Period (min)			15									
c Critical Lane Group												

Timings

2: County Road & Sunset Avenue

BY PM
12/20/2022



Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations		↰	↱		↰		↰	↰	↰
Traffic Volume (vph)	23	4	106	5	13	82	377	2	753
Future Volume (vph)	23	4	106	5	13	82	377	2	753
Turn Type	Perm	NA	Perm	Perm	NA	Perm	NA	Perm	NA
Protected Phases		8			4		6		2
Permitted Phases	8		8	4		6		2	
Detector Phase	8	8	8	4	4	6	6	2	2
Switch Phase									
Minimum Initial (s)	15.0	15.0	15.0	15.0	15.0	10.0	10.0	10.0	10.0
Minimum Split (s)	30.5	30.5	30.5	30.5	30.5	25.5	25.5	25.5	25.5
Total Split (s)	25.0	25.0	25.0	25.0	25.0	60.0	60.0	60.0	60.0
Total Split (%)	29.4%	29.4%	29.4%	29.4%	29.4%	70.6%	70.6%	70.6%	70.6%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5	4.5		4.5		4.5		4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Max	Max	Max	Max
Act Effect Green (s)		15.1	15.1		15.1		61.9		61.9
Actuated g/C Ratio		0.19	0.19		0.19		0.77		0.77
v/c Ratio		0.10	0.29		0.08		0.25		0.32
Control Delay		28.3	8.2		23.0		4.3		4.5
Queue Delay		0.0	0.0		0.0		0.0		0.2
Total Delay		28.3	8.2		23.0		4.3		4.7
LOS		C	A		C		A		A
Approach Delay		12.2			23.0		4.3		4.7
Approach LOS		B			C		A		A

Intersection Summary

Cycle Length: 85

Actuated Cycle Length: 80.8

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.32

Intersection Signal Delay: 5.6

Intersection LOS: A

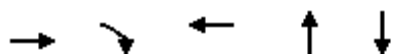
Intersection Capacity Utilization 58.4%

ICU Level of Service B

Analysis Period (min) 15

Splits and Phases: 2: County Road & Sunset Avenue





Lane Group	EBT	EBR	WBT	NBT	SBT
Lane Group Flow (vph)	28	112	25	491	819
v/c Ratio	0.10	0.29	0.08	0.25	0.32
Control Delay	28.3	8.2	23.0	4.3	4.5
Queue Delay	0.0	0.0	0.0	0.0	0.2
Total Delay	28.3	8.2	23.0	4.3	4.7
Queue Length 50th (ft)	12	0	8	39	70
Queue Length 95th (ft)	34	41	28	58	95
Internal Link Dist (ft)	526		57	231	316
Turn Bay Length (ft)					
Base Capacity (vph)	371	486	443	1967	2577
Starvation Cap Reductn	0	0	0	0	922
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.08	0.23	0.06	0.25	0.49
Intersection Summary					

HCM Signalized Intersection Capacity Analysis

2: County Road & Sunset Avenue

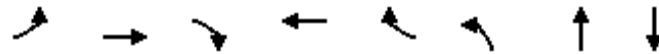
BY PM

12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	23	4	106	5	13	6	82	377	8	2	753	23
Future Volume (vph)	23	4	106	5	13	6	82	377	8	2	753	23
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.5	4.5		4.5			4.5			4.5	
Lane Util. Factor		1.00	1.00		1.00			0.95			0.95	
Frt		1.00	0.85		0.97			1.00			1.00	
Flt Protected		0.96	1.00		0.99			0.99			1.00	
Satd. Flow (prot)		1786	1583		1785			3500			3523	
Flt Permitted		0.78	1.00		0.96			0.73			0.95	
Satd. Flow (perm)		1461	1583		1722			2567			3363	
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
Adj. Flow (vph)	24	4	112	5	14	6	86	397	8	2	793	24
RTOR Reduction (vph)	0	0	96	0	5	0	0	1	0	0	2	0
Lane Group Flow (vph)	0	28	16	0	20	0	0	490	0	0	817	0
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		8			4			6			2	
Permitted Phases	8		8	4			6			2		
Actuated Green, G (s)		11.8	11.8		11.8			60.9			60.9	
Effective Green, g (s)		11.8	11.8		11.8			60.9			60.9	
Actuated g/C Ratio		0.14	0.14		0.14			0.75			0.75	
Clearance Time (s)		4.5	4.5		4.5			4.5			4.5	
Vehicle Extension (s)		3.0	3.0		3.0			3.0			3.0	
Lane Grp Cap (vph)		211	228		248			1913			2506	
v/s Ratio Prot												
v/s Ratio Perm		c0.02	0.01		0.01			0.19			c0.24	
v/c Ratio		0.13	0.07		0.08			0.26			0.33	
Uniform Delay, d1		30.5	30.2		30.3			3.3			3.5	
Progression Factor		1.00	1.00		1.00			1.00			1.00	
Incremental Delay, d2		0.3	0.1		0.1			0.3			0.3	
Delay (s)		30.8	30.3		30.4			3.6			3.8	
Level of Service		C	C		C			A			A	
Approach Delay (s)		30.4			30.4			3.6			3.8	
Approach LOS		C			C			A			A	
Intersection Summary												
HCM 2000 Control Delay		6.7										
HCM 2000 Volume to Capacity ratio		0.29										
Actuated Cycle Length (s)		81.7										
Intersection Capacity Utilization		58.4%										
Analysis Period (min)		15										
c Critical Lane Group												

Timings 3: Royal Poinciana Way N & County Road

BY PM
12/20/2022



Lane Group	EBL	EBT	EBR	WBT	WBR	NBL	NBT	SBT
Lane Configurations								
Traffic Volume (vph)	131	46	148	80	22	189	322	467
Future Volume (vph)	131	46	148	80	22	189	322	467
Turn Type	Split	NA	Prot	NA	Prot	custom	NA	NA
Protected Phases	3	3	3	4	4		1 2	1
Permitted Phases						2		
Detector Phase	3	3	3	4	4	2	1 2	1
Switch Phase								
Minimum Initial (s)	15.0	15.0	15.0	10.0	10.0	5.0		20.0
Minimum Split (s)	27.0	27.0	27.0	27.0	27.0	22.5		27.0
Total Split (s)	25.0	25.0	25.0	20.0	20.0	20.0		40.0
Total Split (%)	23.8%	23.8%	23.8%	19.0%	19.0%	19.0%		38.1%
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0		1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0			0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0			4.0
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag		Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes		Yes
Recall Mode	None	None	None	None	None	Max		None
Act Effect Green (s)	15.3	15.3	15.3	12.4	12.4		51.3	31.2
Actuated g/C Ratio	0.17	0.17	0.17	0.14	0.14		0.56	0.34
v/c Ratio	0.33	0.33	0.39	0.54	0.08		0.91dl	0.71
Control Delay	39.6	39.4	9.6	46.4	0.5		15.0	22.8
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	2.2
Total Delay	39.6	39.4	9.6	46.4	0.5		15.0	25.0
LOS	D	D	A	D	A		B	C
Approach Delay		25.9		39.6			15.0	25.0
Approach LOS		C		D			B	C

Intersection Summary

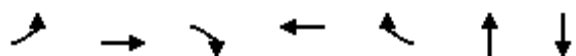
Cycle Length: 105
 Actuated Cycle Length: 91.1
 Natural Cycle: 105
 Control Type: Actuated-Uncoordinated
 Maximum v/c Ratio: 0.71
 Intersection Signal Delay: 23.4
 Intersection LOS: C
 Intersection Capacity Utilization 65.8%
 ICU Level of Service C
 Analysis Period (min) 15
 dl Defacto Left Lane. Recode with 1 though lane as a left lane.

Splits and Phases: 3: Royal Poinciana Way N & County Road



3: Royal Poinciana Way N & County Road

12/20/2022



Lane Group	EBL	EBT	EBR	WBT	WBR	NBT	SBT
Lane Group Flow (vph)	92	94	156	133	23	567	909
v/c Ratio	0.33	0.33	0.39	0.54	0.08	0.91dl	0.71
Control Delay	39.6	39.4	9.6	46.4	0.5	15.0	22.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Total Delay	39.6	39.4	9.6	46.4	0.5	15.0	25.0
Queue Length 50th (ft)	52	53	0	76	0	98	177
Queue Length 95th (ft)	106	108	55	137	0	163	265
Internal Link Dist (ft)		446		441		319	231
Turn Bay Length (ft)							
Base Capacity (vph)	390	401	487	324	357	1013	1446
Starvation Cap Reductn	0	0	0	0	0	0	381
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.24	0.23	0.32	0.41	0.06	0.56	0.85

Intersection Summary

dl Defacto Left Lane. Recode with 1 though lane as a left lane.

HCM Signalized Intersection Capacity Analysis

3: Royal Poinciana Way N & County Road

BY PM
12/20/2022

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	131	46	148	47	80	22	189	322	28	0	467	396
Future Volume (vph)	131	46	148	47	80	22	189	322	28	0	467	396
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0		4.0	4.0		4.0			4.0	
Lane Util. Factor	0.95	0.95	1.00		1.00	1.00		0.95			0.95	
Frt	1.00	1.00	0.85		1.00	0.85		0.99			0.93	
Flt Protected	0.95	0.98	1.00		0.98	1.00		0.98			1.00	
Satd. Flow (prot)	1681	1727	1583		1829	1583		3451			3296	
Flt Permitted	0.95	0.98	1.00		0.98	1.00		0.52			1.00	
Satd. Flow (perm)	1681	1727	1583		1829	1583		1815			3296	
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
Adj. Flow (vph)	138	48	156	49	84	23	199	339	29	0	492	417
RTOR Reduction (vph)	0	0	130	0	0	20	0	3	0	0	146	0
Lane Group Flow (vph)	92	94	26	0	133	3	0	564	0	0	763	0
Turn Type	Split	NA	Prot	Split	NA	Prot	custom	NA			NA	
Protected Phases	3	3	3	4	4	4		1 2			1	
Permitted Phases							2					
Actuated Green, G (s)	15.3	15.3	15.3		12.4	12.4		51.3			31.2	
Effective Green, g (s)	15.3	15.3	15.3		12.4	12.4		51.3			31.2	
Actuated g/C Ratio	0.17	0.17	0.17		0.14	0.14		0.56			0.34	
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0					4.0	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0					3.0	
Lane Grp Cap (vph)	282	290	266		249	215		1023			1130	
v/s Ratio Prot	c0.05	0.05	0.02		c0.07	0.00					c0.23	
v/s Ratio Perm								c0.31				
v/c Ratio	0.33	0.32	0.10		0.53	0.01		0.91dl			0.68	
Uniform Delay, d1	33.3	33.3	32.0		36.6	34.0		12.6			25.6	
Progression Factor	1.00	1.00	1.00		1.00	1.00		1.00			1.00	
Incremental Delay, d2	0.7	0.7	0.2		2.2	0.0		0.6			1.6	
Delay (s)	34.0	34.0	32.2		38.8	34.0		13.2			27.2	
Level of Service	C	C	C		D	C		B			C	
Approach Delay (s)		33.2			38.1			13.2			27.2	
Approach LOS		C			D			B			C	
Intersection Summary												
HCM 2000 Control Delay			25.1				HCM 2000 Level of Service				C	
HCM 2000 Volume to Capacity ratio			0.57									
Actuated Cycle Length (s)			91.0				Sum of lost time (s)			16.0		
Intersection Capacity Utilization			65.8%				ICU Level of Service			C		
Analysis Period (min)			15									
dl Defacto Left Lane. Recode with 1 though lane as a left lane.												
c Critical Lane Group												

Timings

1: County Road & Sunrise Avenue

FY AM
06/28/2023



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations		↔	↔	↔		↔	↔	↔	↔
Traffic Volume (vph)	394	1354	289	1012	156	736	294	104	1174
Future Volume (vph)	394	1354	289	1012	156	736	294	104	1174
Turn Type	Perm	NA	pm+pt	NA	Perm	NA	Perm	Perm	NA
Protected Phases		8	7	4		2			6
Permitted Phases	8		4		2		2	6	
Detector Phase	8	8	7	4	2	2	2	6	6
Switch Phase									
Minimum Initial (s)	10.0	10.0	7.0	10.0	20.0	20.0	20.0	20.0	20.0
Minimum Split (s)	31.0	31.0	13.0	31.0	26.0	26.0	26.0	26.0	26.0
Total Split (s)	30.0	30.0	20.0	50.0	40.0	40.0	40.0	40.0	40.0
Total Split (%)	33.3%	33.3%	22.2%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Lost Time (s)		6.0	6.0	6.0		6.0	6.0	6.0	6.0
Lead/Lag	Lag	Lag	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes						
Recall Mode	None	None	None	None	Max	Max	Max	Max	Max
Act Effect Green (s)		24.8	44.0	44.0		34.0	34.0	34.0	34.0
Actuated g/C Ratio		0.28	0.49	0.49		0.38	0.38	0.38	0.38
v/c Ratio		39.41	0.78	1.23		19.56	0.42	1.31	2.38
Control Delay		17188.3	30.7	137.4		8395.4	7.4	233.5	646.0
Queue Delay		0.0	0.0	0.0		0.0	0.2	0.0	0.0
Total Delay		17188.3	30.7	137.4		8395.4	7.7	233.5	646.0
LOS		F	C	F		F	A	F	F
Approach Delay		17188.3		114.6		6318.7			620.4
Approach LOS		F		F		F			F

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 90

Natural Cycle: 70

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 39.41

Intersection Signal Delay: 6982.2

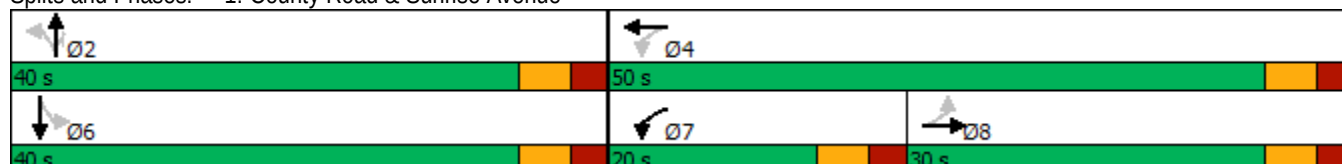
Intersection LOS: F

Intersection Capacity Utilization 318.6%

ICU Level of Service H

Analysis Period (min) 15

Splits and Phases: 1: County Road & Sunrise Avenue



Queues

1: County Road & Sunrise Avenue

FY AM

06/28/2023



Lane Group	EBT	WBL	WBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	2128	304	1114	939	309	109	1644
v/c Ratio	39.41	0.78	1.23	19.56	0.42	1.31	2.38
Control Delay	17188.3	30.7	137.4	8395.4	7.4	233.5	646.0
Queue Delay	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Total Delay	17188.3	30.7	137.4	8395.4	7.7	233.5	646.0
Queue Length 50th (ft)	~2540	102	~794	~1091	28	~81	~1570
Queue Length 95th (ft)	#2807	#206	#1040	#1327	88	#185	#1833
Internal Link Dist (ft)	482		146	316			333
Turn Bay Length (ft)						160	
Base Capacity (vph)	54	400	906	48	743	83	690
Starvation Cap Reductn	0	0	0	0	91	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	39.41	0.76	1.23	19.56	0.47	1.31	2.38

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

1: County Road & Sunrise Avenue

FY AM

06/28/2023

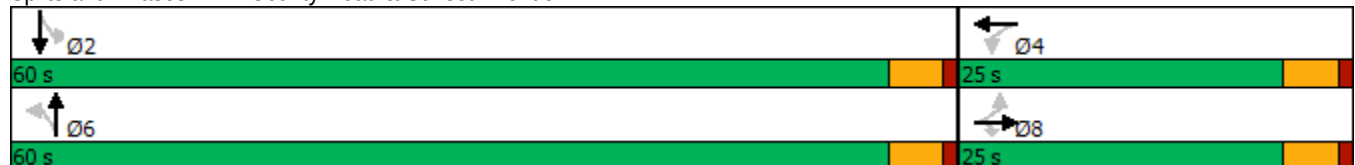
												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	394	1354	274	289	1012	47	156	736	294	104	1174	388
Future Volume (vph)	394	1354	274	289	1012	47	156	736	294	104	1174	388
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Lane Util. Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Frt		0.98		1.00	0.99			1.00	0.85	1.00	0.96	
Flt Protected		0.99		0.95	1.00			0.99	1.00	0.95	1.00	
Satd. Flow (prot)		1811		1770	1850			1847	1583	1770	1793	
Flt Permitted		0.10		0.20	1.00			0.07	1.00	0.12	1.00	
Satd. Flow (perm)		176		377	1850			129	1583	219	1793	
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
Adj. Flow (vph)	415	1425	288	304	1065	49	164	775	309	109	1236	408
RTOR Reduction (vph)	0	7	0	0	2	0	0	0	145	0	13	0
Lane Group Flow (vph)	0	2121	0	304	1112	0	0	939	164	109	1631	0
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		8		7	4			2			6	
Permitted Phases	8			4			2		2	6		
Actuated Green, G (s)		24.8		44.0	44.0			34.0	34.0	34.0	34.0	
Effective Green, g (s)		24.8		44.0	44.0			34.0	34.0	34.0	34.0	
Actuated g/C Ratio		0.28		0.49	0.49			0.38	0.38	0.38	0.38	
Clearance Time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Vehicle Extension (s)		3.0		3.0	3.0			3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		48		388	904			48	598	82	677	
v/s Ratio Prot				0.11	c0.60							0.91
v/s Ratio Perm		c12.04		0.27				c7.30	0.10	0.50		
v/c Ratio		44.20		0.78	1.23			19.56	0.27	1.33	2.41	
Uniform Delay, d1		32.6		18.7	23.0			28.0	19.4	28.0	28.0	
Progression Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Incremental Delay, d2		19477.2		9.9	113.2			8392.5	1.1	210.5	638.6	
Delay (s)		19509.8		28.6	136.2			8420.5	20.6	238.5	666.6	
Level of Service		F		C	F			F	C	F	F	
Approach Delay (s)		19509.8			113.2			6340.7			640.0	
Approach LOS		F			F			F			F	
Intersection Summary												
HCM 2000 Control Delay			7745.9			HCM 2000 Level of Service				F		
HCM 2000 Volume to Capacity ratio			24.45									
Actuated Cycle Length (s)			90.0			Sum of lost time (s)			18.0			
Intersection Capacity Utilization			318.6%			ICU Level of Service			H			
Analysis Period (min)			15									
c Critical Lane Group												

Timings 2: County Road & Sunset Avenue

FY AM
06/28/2023

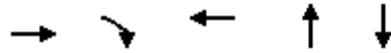
									
Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	398	629	717	12	238	221	344	142	804
Future Volume (vph)	398	629	717	12	238	221	344	142	804
Turn Type	Perm	NA	Perm	Perm	NA	Perm	NA	Perm	NA
Protected Phases		8			4		6		2
Permitted Phases	8		8	4		6		2	
Detector Phase	8	8	8	4	4	6	6	2	2
Switch Phase									
Minimum Initial (s)	15.0	15.0	15.0	15.0	15.0	10.0	10.0	10.0	10.0
Minimum Split (s)	30.5	30.5	30.5	30.5	30.5	25.5	25.5	25.5	25.5
Total Split (s)	25.0	25.0	25.0	25.0	25.0	60.0	60.0	60.0	60.0
Total Split (%)	29.4%	29.4%	29.4%	29.4%	29.4%	70.6%	70.6%	70.6%	70.6%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5	4.5		4.5		4.5		4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Max	Max	Max	Max
Act Efect Green (s)		20.5	20.5		20.5		55.5		55.5
Actuated g/C Ratio		0.24	0.24		0.24		0.65		0.65
v/c Ratio		4.80	1.42		1.56		1.01dl		0.68
Control Delay		1733.3	220.8		302.7		9.7		11.3
Queue Delay		0.0	0.0		0.0		0.7		1.7
Total Delay		1733.3	220.8		302.7		10.3		13.0
LOS		F	F		F		B		B
Approach Delay		1111.3			302.7		10.3		13.0
Approach LOS		F			F		B		B
Intersection Summary									
Cycle Length: 85									
Actuated Cycle Length: 85									
Natural Cycle: 80									
Control Type: Actuated-Uncoordinated									
Maximum v/c Ratio: 4.80									
Intersection Signal Delay: 545.3					Intersection LOS: F				
Intersection Capacity Utilization 135.2%					ICU Level of Service H				
Analysis Period (min) 15									
dl Defacto Left Lane. Recode with 1 though lane as a left lane.									

Splits and Phases: 2: County Road & Sunset Avenue



Queues
2: County Road & Sunset Avenue

FY AM
06/28/2023



Lane Group	EBT	EBR	WBT	NBT	SBT
Lane Group Flow (vph)	1081	755	319	611	1193
v/c Ratio	4.80	1.42	1.56	1.01dl	0.68
Control Delay	1733.3	220.8	302.7	9.7	11.3
Queue Delay	0.0	0.0	0.0	0.7	1.7
Total Delay	1733.3	220.8	302.7	10.3	13.0
Queue Length 50th (ft)	~1090	~466	~242	78	175
Queue Length 95th (ft)	#1326	#684	#403	120	246
Internal Link Dist (ft)	526		57	231	316
Turn Bay Length (ft)					
Base Capacity (vph)	225	533	204	1171	1745
Starvation Cap Reductn	0	0	0	252	363
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	4.80	1.42	1.56	0.66	0.86

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
- dl Defacto Left Lane. Recode with 1 though lane as a left lane.

HCM Signalized Intersection Capacity Analysis

2: County Road & Sunset Avenue

FY AM

06/28/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	398	629	717	12	238	52	221	344	15	142	804	188
Future Volume (vph)	398	629	717	12	238	52	221	344	15	142	804	188
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.5	4.5		4.5			4.5			4.5	
Lane Util. Factor		1.00	1.00		1.00			0.95			0.95	
Frt		1.00	0.85		0.98			1.00			0.98	
Flt Protected		0.98	1.00		1.00			0.98			0.99	
Satd. Flow (prot)		1827	1583		1816			3459			3430	
Flt Permitted		0.50	1.00		0.44			0.51			0.77	
Satd. Flow (perm)		933	1583		809			1791			2643	
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
Adj. Flow (vph)	419	662	755	13	251	55	233	362	16	149	846	198
RTOR Reduction (vph)	0	0	152	0	9	0	0	2	0	0	19	0
Lane Group Flow (vph)	0	1081	603	0	310	0	0	609	0	0	1174	0
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		8			4			6			2	
Permitted Phases	8		8	4			6			2		
Actuated Green, G (s)		20.5	20.5		20.5			55.5			55.5	
Effective Green, g (s)		20.5	20.5		20.5			55.5			55.5	
Actuated g/C Ratio		0.24	0.24		0.24			0.65			0.65	
Clearance Time (s)		4.5	4.5		4.5			4.5			4.5	
Vehicle Extension (s)		3.0	3.0		3.0			3.0			3.0	
Lane Grp Cap (vph)		225	381		195			1169			1725	
v/s Ratio Prot												
v/s Ratio Perm		c1.16	0.38		0.38			0.34			c0.44	
v/c Ratio		4.80	1.58		1.59			1.01dl			0.68	
Uniform Delay, d1		32.2	32.2		32.2			7.8			9.2	
Progression Factor		1.00	1.00		1.00			1.00			1.00	
Incremental Delay, d2		1722.0	274.7		288.1			1.7			2.2	
Delay (s)		1754.3	307.0		320.3			9.4			11.4	
Level of Service		F	F		F			A			B	
Approach Delay (s)		1159.1			320.3			9.4			11.4	
Approach LOS		F			F			A			B	
Intersection Summary												
HCM 2000 Control Delay		568.2			HCM 2000 Level of Service			F				
HCM 2000 Volume to Capacity ratio		1.79										
Actuated Cycle Length (s)		85.0			Sum of lost time (s)			9.0				
Intersection Capacity Utilization		135.2%			ICU Level of Service			H				
Analysis Period (min)		15										
dl Defacto Left Lane. Recode with 1 though lane as a left lane.												
c Critical Lane Group												

Timings 3: Royal Poinciana Way N & County Road

FY AM
06/28/2023

									
Lane Group	EBL	EBT	EBR	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	242	288	11	202	160	8	226	296	526
Future Volume (vph)	242	288	11	202	160	8	226	296	526
Turn Type	Split	NA	Prot	NA	Prot	custom	NA	Perm	NA
Protected Phases	3	3	3	4	4		1 2		1
Permitted Phases						2		1	
Detector Phase	3	3	3	4	4	2	1 2	1	1
Switch Phase									
Minimum Initial (s)	15.0	15.0	15.0	10.0	10.0	5.0		20.0	20.0
Minimum Split (s)	27.0	27.0	27.0	27.0	27.0	22.5		27.0	27.0
Total Split (s)	25.0	25.0	25.0	20.0	20.0	20.0		40.0	40.0
Total Split (%)	23.8%	23.8%	23.8%	19.0%	19.0%	19.0%		38.1%	38.1%
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0		1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0				0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0				4.0
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag		Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Recall Mode	None	None	None	None	None	Max		None	None
Act Effect Green (s)	20.8	20.8	20.8	16.0	16.0		56.0		36.0
Actuated g/C Ratio	0.20	0.20	0.20	0.15	0.15		0.53		0.34
v/c Ratio	0.69	0.94	0.03	0.94	0.44		0.15		1.19
Control Delay	50.7	77.8	0.2	86.5	10.1		12.4		125.9
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0		1.0
Total Delay	50.7	77.8	0.2	86.5	10.1		12.4		126.9
LOS	D	E	A	F	B		B		F
Approach Delay		65.3		56.9			12.4		126.9
Approach LOS		E		E			B		F

Intersection Summary

Cycle Length: 105
 Actuated Cycle Length: 104.8
 Natural Cycle: 135
 Control Type: Actuated-Uncoordinated
 Maximum v/c Ratio: 1.19
 Intersection Signal Delay: 86.9
 Intersection Capacity Utilization 88.9%
 Analysis Period (min) 15

Intersection LOS: F
 ICU Level of Service E

Splits and Phases: 3: Royal Poinciana Way N & County Road

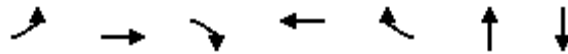


Queues

3: Royal Poinciana Way N & County Road

FY AM

06/28/2023



Lane Group	EBL	EBT	EBR	WBT	WBR	NBT	SBT
Lane Group Flow (vph)	229	329	12	265	168	253	1104
v/c Ratio	0.69	0.94	0.03	0.94	0.44	0.15	1.19
Control Delay	50.7	77.8	0.2	86.5	10.1	12.4	125.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Delay	50.7	77.8	0.2	86.5	10.1	12.4	126.9
Queue Length 50th (ft)	151	230	0	178	0	42	~465
Queue Length 95th (ft)	#243	#410	0	#336	59	63	#599
Internal Link Dist (ft)		446		441		319	231
Turn Bay Length (ft)	430				230		
Base Capacity (vph)	336	353	392	281	383	1740	931
Starvation Cap Reductn	0	0	0	0	0	0	160
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.68	0.93	0.03	0.94	0.44	0.15	1.43

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

3: Royal Poinciana Way N & County Road

FY AM

06/28/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	242	288	11	49	202	160	8	226	7	296	526	226
Future Volume (vph)	242	288	11	49	202	160	8	226	7	296	526	226
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0		4.0	4.0		4.0			4.0	
Lane Util. Factor	0.95	0.95	1.00		1.00	1.00		0.95			0.95	
Frt	1.00	1.00	0.85		1.00	0.85		1.00			0.97	
Flt Protected	0.95	1.00	1.00		0.99	1.00		1.00			0.99	
Satd. Flow (prot)	1681	1763	1583		1845	1583		3519			3377	
Flt Permitted	0.95	1.00	1.00		0.99	1.00		0.92			0.77	
Satd. Flow (perm)	1681	1763	1583		1845	1583		3252			2644	
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
Adj. Flow (vph)	255	303	12	52	213	168	8	238	7	312	554	238
RTOR Reduction (vph)	0	0	10	0	0	142	0	2	0	0	24	0
Lane Group Flow (vph)	229	329	2	0	265	26	0	251	0	0	1080	0
Turn Type	Split	NA	Prot	Split	NA	Prot	custom	NA		Perm	NA	
Protected Phases	3	3	3	4	4	4		1 2			1	
Permitted Phases							2			1		
Actuated Green, G (s)	20.8	20.8	20.8		16.0	16.0		56.0			36.0	
Effective Green, g (s)	20.8	20.8	20.8		16.0	16.0		56.0			36.0	
Actuated g/C Ratio	0.20	0.20	0.20		0.15	0.15		0.53			0.34	
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0					4.0	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0					3.0	
Lane Grp Cap (vph)	333	349	314		281	241		1737			908	
v/s Ratio Prot	0.14	c0.19	0.00		c0.14	0.02						
v/s Ratio Perm								c0.08			c0.41	
v/c Ratio	0.69	0.94	0.01		0.94	0.11		0.14			1.19	
Uniform Delay, d1	39.0	41.4	33.7		43.9	38.2		12.3			34.4	
Progression Factor	1.00	1.00	1.00		1.00	1.00		1.00			1.00	
Incremental Delay, d2	5.8	33.4	0.0		38.4	0.2		0.0			96.4	
Delay (s)	44.8	74.8	33.7		82.3	38.4		12.4			130.8	
Level of Service	D	E	C		F	D		B			F	
Approach Delay (s)		61.9			65.3			12.4			130.8	
Approach LOS		E			E			B			F	
Intersection Summary												
HCM 2000 Control Delay	89.5			HCM 2000 Level of Service			F					
HCM 2000 Volume to Capacity ratio	0.90											
Actuated Cycle Length (s)	104.8			Sum of lost time (s)			16.0					
Intersection Capacity Utilization	88.9%			ICU Level of Service			E					
Analysis Period (min)	15											
c Critical Lane Group												

HCM Unsignalized Intersection Capacity Analysis

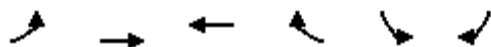
4: N Dwy. & Sunrise Avenue

FY AM
06/28/2023

	→	↘	↙	←	↖	↗
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↰			↱		
Traffic Volume (veh/h)	121	5	1	75	0	0
Future Volume (Veh/h)	121	5	1	75	0	0
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	127	5	1	79	0	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh						
Upstream signal (ft)	226					
pX, platoon unblocked						
vC, conflicting volume			132		210	130
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			132		210	130
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	100
cM capacity (veh/h)			1453		777	920
Direction, Lane #	EB 1	WB 1				
Volume Total	132	80				
Volume Left	0	1				
Volume Right	5	0				
cSH	1700	1453				
Volume to Capacity	0.08	0.00				
Queue Length 95th (ft)	0	0				
Control Delay (s)	0.0	0.1				
Lane LOS		A				
Approach Delay (s)	0.0	0.1				
Approach LOS						
Intersection Summary						
Average Delay		0.0				
Intersection Capacity Utilization		10.0%	ICU Level of Service	A		
Analysis Period (min)		15				

HCM Unsignalized Intersection Capacity Analysis 5: Sunset Avenue & S Dwy.

FY AM
06/28/2023



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	6	40	26	0	0	9
Future Volume (Veh/h)	6	40	26	0	0	9
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	6	42	27	0	0	9
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (ft)		137				
pX, platoon unblocked						
vC, conflicting volume	27				81	27
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	27				81	27
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				100	99
cM capacity (veh/h)	1587				918	1048
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	48	27	9			
Volume Left	6	0	0			
Volume Right	0	0	9			
cSH	1587	1700	1048			
Volume to Capacity	0.00	0.02	0.01			
Queue Length 95th (ft)	0	0	1			
Control Delay (s)	0.9	0.0	8.5			
Lane LOS	A		A			
Approach Delay (s)	0.9	0.0	8.5			
Approach LOS			A			
Intersection Summary						
Average Delay			1.4			
Intersection Capacity Utilization			13.3%	ICU Level of Service		A
Analysis Period (min)			15			

Timings

1: County Road & Sunrise Avenue

FY PM

06/28/2023



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations		↔	↔	↔		↔	↔	↔	↔
Traffic Volume (vph)	430	822	680	2056	244	688	168	57	1757
Future Volume (vph)	430	822	680	2056	244	688	168	57	1757
Turn Type	Perm	NA	pm+pt	NA	Perm	NA	Perm	Perm	NA
Protected Phases		8	7	4		2			6
Permitted Phases	8		4		2		2	6	
Detector Phase	8	8	7	4	2	2	2	6	6
Switch Phase									
Minimum Initial (s)	10.0	10.0	7.0	10.0	20.0	20.0	20.0	20.0	20.0
Minimum Split (s)	31.0	31.0	13.0	31.0	26.0	26.0	26.0	26.0	26.0
Total Split (s)	30.0	30.0	20.0	50.0	40.0	40.0	40.0	40.0	40.0
Total Split (%)	33.3%	33.3%	22.2%	55.6%	44.4%	44.4%	44.4%	44.4%	44.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Lost Time Adjust (s)		0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Lost Time (s)		6.0	6.0	6.0		6.0	6.0	6.0	6.0
Lead/Lag	Lag	Lag	Lead						
Lead-Lag Optimize?	Yes	Yes	Yes						
Recall Mode	None	None	None	None	Max	Max	Max	Max	Max
Act Effect Green (s)		24.0	44.0	44.0		34.0	34.0	34.0	34.0
Actuated g/C Ratio		0.27	0.49	0.49		0.38	0.38	0.38	0.38
v/c Ratio		30.00	1.61	2.49		18.87	0.26	0.72	3.37
Control Delay		13085.1	306.4	693.7		8078.9	7.5	73.1	1087.4
Queue Delay		0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Delay		13085.1	306.4	693.7		8078.9	7.5	73.1	1087.4
LOS		F	F	F		F	A	E	F
Approach Delay		13085.1		600.5		6845.2			1061.6
Approach LOS		F		F		F			F

Intersection Summary

Cycle Length: 90

Actuated Cycle Length: 90

Natural Cycle: 70

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 30.00

Intersection Signal Delay: 4181.5

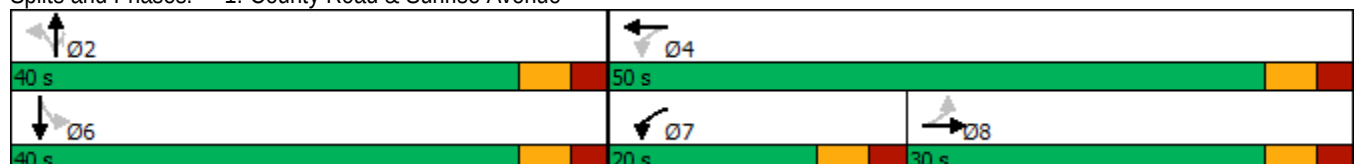
Intersection LOS: F

Intersection Capacity Utilization 390.3%

ICU Level of Service H

Analysis Period (min) 15

Splits and Phases: 1: County Road & Sunrise Avenue



Queues

1: County Road & Sunrise Avenue

FY PM

06/28/2023



Lane Group	EBT	WBL	WBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	1680	716	2262	981	177	60	2305
v/c Ratio	30.00	1.61	2.49	18.87	0.26	0.72	3.37
Control Delay	13085.1	306.4	693.7	8078.9	7.5	73.1	1087.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	13085.1	306.4	693.7	8078.9	7.5	73.1	1087.4
Queue Length 50th (ft)	~1989	~492	~2197	~1138	18	29	~2390
Queue Length 95th (ft)	#2252	#711	#2465	#1376	60	#102	#2658
Internal Link Dist (ft)	482		146	316			333
Turn Bay Length (ft)						160	
Base Capacity (vph)	56	444	907	52	677	83	683
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	30.00	1.61	2.49	18.87	0.26	0.72	3.37

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

1: County Road & Sunrise Avenue

FY PM

06/28/2023

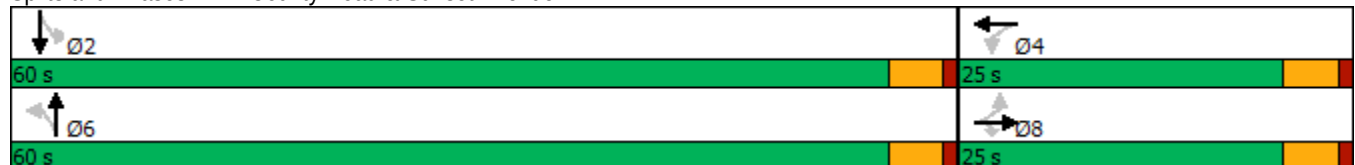
												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	430	822	344	680	2056	93	244	688	168	57	1757	433
Future Volume (vph)	430	822	344	680	2056	93	244	688	168	57	1757	433
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Lane Util. Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Frt		0.97		1.00	0.99			1.00	0.85	1.00	0.97	
Flt Protected		0.99		0.95	1.00			0.99	1.00	0.95	1.00	
Satd. Flow (prot)		1785		1770	1851			1839	1583	1770	1807	
Flt Permitted		0.11		0.27	1.00			0.07	1.00	0.12	1.00	
Satd. Flow (perm)		191		507	1851			138	1583	219	1807	
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
Adj. Flow (vph)	453	865	362	716	2164	98	257	724	177	60	1849	456
RTOR Reduction (vph)	0	5	0	0	2	0	0	0	80	0	1	0
Lane Group Flow (vph)	0	1675	0	716	2260	0	0	981	97	60	2304	0
Turn Type	Perm	NA		pm+pt	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		8		7	4			2			6	
Permitted Phases	8			4			2		2	6		
Actuated Green, G (s)		24.0		44.0	44.0			34.0	34.0	34.0	34.0	
Effective Green, g (s)		24.0		44.0	44.0			34.0	34.0	34.0	34.0	
Actuated g/C Ratio		0.27		0.49	0.49			0.38	0.38	0.38	0.38	
Clearance Time (s)		6.0		6.0	6.0			6.0	6.0	6.0	6.0	
Vehicle Extension (s)		3.0		3.0	3.0			3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)		50		444	904			52	598	82	682	
v/s Ratio Prot				0.25	c1.22						1.27	
v/s Ratio Perm		c8.75		0.54				c7.09	0.06	0.27		
v/c Ratio		33.50		1.61	2.50			18.87	0.16	0.73	3.38	
Uniform Delay, d1		33.0		21.3	23.0			28.0	18.6	24.1	28.0	
Progression Factor		1.00		1.00	1.00			1.00	1.00	1.00	1.00	
Incremental Delay, d2		14660.8		286.0	678.3			8075.8	0.6	43.9	1073.8	
Delay (s)		14693.8		307.3	701.3			8103.8	19.1	68.0	1101.8	
Level of Service		F		F	F			F	B	E	F	
Approach Delay (s)		14693.8			606.5			6868.1			1075.6	
Approach LOS		F			F			F			F	
Intersection Summary												
HCM 2000 Control Delay		4521.3				HCM 2000 Level of Service		F				
HCM 2000 Volume to Capacity ratio		20.45										
Actuated Cycle Length (s)		90.0				Sum of lost time (s)		18.0				
Intersection Capacity Utilization		390.3%				ICU Level of Service		H				
Analysis Period (min)		15										
c Critical Lane Group												

Timings 2: County Road & Sunset Avenue

FY PM
06/28/2023

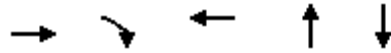
									
Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	182	214	328	29	611	518	800	75	660
Future Volume (vph)	182	214	328	29	611	518	800	75	660
Turn Type	Perm	NA	Perm	Perm	NA	Perm	NA	Perm	NA
Protected Phases		8			4		6		2
Permitted Phases	8		8	4		6		2	
Detector Phase	8	8	8	4	4	6	6	2	2
Switch Phase									
Minimum Initial (s)	15.0	15.0	15.0	15.0	15.0	10.0	10.0	10.0	10.0
Minimum Split (s)	30.5	30.5	30.5	30.5	30.5	25.5	25.5	25.5	25.5
Total Split (s)	25.0	25.0	25.0	25.0	25.0	60.0	60.0	60.0	60.0
Total Split (%)	29.4%	29.4%	29.4%	29.4%	29.4%	70.6%	70.6%	70.6%	70.6%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5	4.5		4.5		4.5		4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Max	Max	Max	Max
Act Efect Green (s)		20.5	20.5		20.5		55.5		55.5
Actuated g/C Ratio		0.24	0.24		0.24		0.65		0.65
v/c Ratio		4.21	0.59		3.30		2.15dl		0.73
Control Delay		1481.6	11.5		1060.0		112.3		12.9
Queue Delay		0.0	0.0		0.0		0.3		1.7
Total Delay		1481.6	11.5		1060.0		112.5		14.6
LOS		F	B		F		F		B
Approach Delay		816.0			1060.0		112.5		14.6
Approach LOS		F			F		F		B
Intersection Summary									
Cycle Length: 85									
Actuated Cycle Length: 85									
Natural Cycle: 80									
Control Type: Actuated-Uncoordinated									
Maximum v/c Ratio: 4.21									
Intersection Signal Delay: 402.2					Intersection LOS: F				
Intersection Capacity Utilization 145.8%					ICU Level of Service H				
Analysis Period (min) 15									
dl Defacto Left Lane. Recode with 1 though lane as a left lane.									

Splits and Phases: 2: County Road & Sunset Avenue



Queues
2: County Road & Sunset Avenue

FY PM
06/28/2023



Lane Group	EBT	EBR	WBT	NBT	SBT
Lane Group Flow (vph)	417	345	798	1399	1122
v/c Ratio	4.21	0.59	3.30	2.15dl	0.73
Control Delay	1481.6	11.5	1060.0	112.3	12.9
Queue Delay	0.0	0.0	0.0	0.3	1.7
Total Delay	1481.6	11.5	1060.0	112.5	14.6
Queue Length 50th (ft)	~374	31	~773	~483	178
Queue Length 95th (ft)	#553	111	#994	#616	257
Internal Link Dist (ft)	526		57	231	316
Turn Bay Length (ft)					
Base Capacity (vph)	99	588	242	1177	1547
Starvation Cap Reductn	0	0	0	69	251
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	4.21	0.59	3.30	1.26	0.87

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
- dl Defacto Left Lane. Recode with 1 though lane as a left lane.

HCM Signalized Intersection Capacity Analysis

2: County Road & Sunset Avenue

FY PM
06/28/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	182	214	328	29	611	118	518	800	11	75	660	331
Future Volume (vph)	182	214	328	29	611	118	518	800	11	75	660	331
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.5	4.5		4.5			4.5			4.5	
Lane Util. Factor		1.00	1.00		1.00			0.95			0.95	
Frt		1.00	0.85		0.98			1.00			0.95	
Flt Protected		0.98	1.00		1.00			0.98			1.00	
Satd. Flow (prot)		1821	1583		1820			3467			3363	
Flt Permitted		0.22	1.00		0.53			0.51			0.70	
Satd. Flow (perm)		414	1583		973			1803			2355	
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
Adj. Flow (vph)	192	225	345	31	643	124	545	842	12	79	695	348
RTOR Reduction (vph)	0	0	207	0	8	0	0	1	0	0	10	0
Lane Group Flow (vph)	0	417	138	0	790	0	0	1398	0	0	1112	0
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		8			4			6			2	
Permitted Phases	8		8	4			6			2		
Actuated Green, G (s)		20.5	20.5		20.5			55.5			55.5	
Effective Green, g (s)		20.5	20.5		20.5			55.5			55.5	
Actuated g/C Ratio		0.24	0.24		0.24			0.65			0.65	
Clearance Time (s)		4.5	4.5		4.5			4.5			4.5	
Vehicle Extension (s)		3.0	3.0		3.0			3.0			3.0	
Lane Grp Cap (vph)		99	381		234			1177			1537	
v/s Ratio Prot												
v/s Ratio Perm		c1.01	0.09		0.81			c0.78			0.47	
v/c Ratio		4.21	0.36		3.38			2.15dl			0.72	
Uniform Delay, d1		32.2	26.8		32.2			14.8			9.7	
Progression Factor		1.00	1.00		1.00			1.00			1.00	
Incremental Delay, d2		1468.9	0.6		1080.8			93.4			3.0	
Delay (s)		1501.2	27.4		1113.1			108.1			12.7	
Level of Service		F	C		F			F			B	
Approach Delay (s)		833.9			1113.1			108.1			12.7	
Approach LOS		F			F			F			B	
Intersection Summary												
HCM 2000 Control Delay			413.9				HCM 2000 Level of Service				F	
HCM 2000 Volume to Capacity ratio			1.99									
Actuated Cycle Length (s)			85.0				Sum of lost time (s)			9.0		
Intersection Capacity Utilization			145.8%				ICU Level of Service			H		
Analysis Period (min)			15									
dl Defacto Left Lane. Recode with 1 though lane as a left lane.												
c Critical Lane Group												

Timings 3: Royal Poinciana Way N & County Road

FY PM
06/28/2023

									
Lane Group	EBL	EBT	EBR	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	317	178	19	471	307	11	352	213	642
Future Volume (vph)	317	178	19	471	307	11	352	213	642
Turn Type	Split	NA	Prot	NA	Prot	custom	NA	Perm	NA
Protected Phases	3	3	3	4	4		1 2		1
Permitted Phases						2		1	
Detector Phase	3	3	3	4	4	2	1 2	1	1
Switch Phase									
Minimum Initial (s)	15.0	15.0	15.0	10.0	10.0	5.0		20.0	20.0
Minimum Split (s)	27.0	27.0	27.0	27.0	27.0	22.5		27.0	27.0
Total Split (s)	25.0	25.0	25.0	20.0	20.0	20.0		40.0	40.0
Total Split (%)	23.8%	23.8%	23.8%	19.0%	19.0%	19.0%		38.1%	38.1%
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0		3.0	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0		1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0				0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0				4.0
Lead/Lag	Lead	Lead	Lead	Lag	Lag	Lag		Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Recall Mode	None	None	None	None	None	Max		None	None
Act Effect Green (s)	19.2	19.2	19.2	16.0	16.0		56.0		36.0
Actuated g/C Ratio	0.19	0.19	0.19	0.15	0.15		0.54		0.35
v/c Ratio	0.82	0.81	0.05	1.98	0.73		0.23		1.25
Control Delay	62.1	60.5	0.3	478.1	23.1		12.8		152.0
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0		0.9
Total Delay	62.1	60.5	0.3	478.1	23.1		12.8		152.9
LOS	E	E	A	F	C		B		F
Approach Delay		59.0		313.0			12.8		152.9
Approach LOS		E		F			B		F

Intersection Summary

Cycle Length: 105
Actuated Cycle Length: 103.3
Natural Cycle: 145
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 1.98
Intersection Signal Delay: 164.9
Intersection Capacity Utilization 103.2%
Analysis Period (min) 15

Intersection LOS: F
ICU Level of Service G

Splits and Phases: 3: Royal Poinciana Way N & County Road

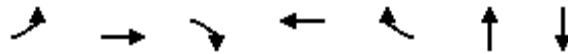


Queues

3: Royal Poinciana Way N & County Road

FY PM

06/28/2023



Lane Group	EBL	EBT	EBR	WBT	WBR	NBT	SBT
Lane Group Flow (vph)	257	264	20	567	323	399	1140
v/c Ratio	0.82	0.81	0.05	1.98	0.73	0.23	1.25
Control Delay	62.1	60.5	0.3	478.1	23.1	12.8	152.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Total Delay	62.1	60.5	0.3	478.1	23.1	12.8	152.9
Queue Length 50th (ft)	172	176	0	~598	54	70	~505
Queue Length 95th (ft)	#297	#302	0	#807	#162	98	#640
Internal Link Dist (ft)		446		441		319	231
Turn Bay Length (ft)	430				230		
Base Capacity (vph)	342	355	396	287	443	1749	912
Starvation Cap Reductn	0	0	0	0	0	0	133
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.75	0.74	0.05	1.98	0.73	0.23	1.46

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM Signalized Intersection Capacity Analysis

3: Royal Poinciana Way N & County Road

FY PM

06/28/2023

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	317	178	19	67	471	307	11	352	15	213	642	228
Future Volume (vph)	317	178	19	67	471	307	11	352	15	213	642	228
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0		4.0	4.0		4.0			4.0	
Lane Util. Factor	0.95	0.95	1.00		1.00	1.00		0.95			0.95	
Frt	1.00	1.00	0.85		1.00	0.85		0.99			0.97	
Flt Protected	0.95	0.99	1.00		0.99	1.00		1.00			0.99	
Satd. Flow (prot)	1681	1744	1583		1851	1583		3513			3394	
Flt Permitted	0.95	0.99	1.00		0.99	1.00		0.91			0.75	
Satd. Flow (perm)	1681	1744	1583		1851	1583		3218			2555	
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
Adj. Flow (vph)	334	187	20	71	496	323	12	371	16	224	676	240
RTOR Reduction (vph)	0	0	16	0	0	199	0	3	0	0	23	0
Lane Group Flow (vph)	257	264	4	0	567	124	0	396	0	0	1117	0
Turn Type	Split	NA	Prot	Split	NA	Prot	custom	NA		Perm	NA	
Protected Phases	3	3	3	4	4	4		1 2			1	
Permitted Phases							2			1		
Actuated Green, G (s)	19.2	19.2	19.2		16.0	16.0		56.0			36.0	
Effective Green, g (s)	19.2	19.2	19.2		16.0	16.0		56.0			36.0	
Actuated g/C Ratio	0.19	0.19	0.19		0.16	0.16		0.54			0.35	
Clearance Time (s)	4.0	4.0	4.0		4.0	4.0					4.0	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0					3.0	
Lane Grp Cap (vph)	312	324	294		286	245		1746			891	
v/s Ratio Prot	c0.15	0.15	0.00		c0.31	0.08						
v/s Ratio Perm								c0.12			c0.44	
v/c Ratio	0.82	0.81	0.01		1.98	0.51		0.23			1.25	
Uniform Delay, d1	40.4	40.3	34.3		43.6	40.0		12.3			33.6	
Progression Factor	1.00	1.00	1.00		1.00	1.00		1.00			1.00	
Incremental Delay, d2	16.0	14.5	0.0		454.5	1.7		0.1			123.5	
Delay (s)	56.3	54.8	34.3		498.1	41.6		12.4			157.1	
Level of Service	E	D	C		F	D		B			F	
Approach Delay (s)		54.8			332.4			12.4			157.1	
Approach LOS		D			F			B			F	
Intersection Summary												
HCM 2000 Control Delay			171.6				HCM 2000 Level of Service				F	
HCM 2000 Volume to Capacity ratio			1.11									
Actuated Cycle Length (s)			103.2				Sum of lost time (s)			16.0		
Intersection Capacity Utilization			103.2%				ICU Level of Service			G		
Analysis Period (min)			15									
c Critical Lane Group												

HCM Unsignalized Intersection Capacity Analysis

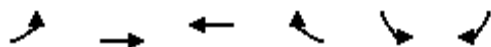
4: N Dwy. & Sunrise Avenue

FY PM
06/28/2023

						
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	154	32	8	142	0	0
Future Volume (Veh/h)	154	32	8	142	0	0
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	162	34	8	149	0	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)	226					
pX, platoon unblocked						
vC, conflicting volume			196		344	179
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			196		344	179
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			99		100	100
cM capacity (veh/h)			1377		649	864
Direction, Lane #	EB 1	WB 1				
Volume Total	196	157				
Volume Left	0	8				
Volume Right	34	0				
cSH	1700	1377				
Volume to Capacity	0.12	0.01				
Queue Length 95th (ft)	0	0				
Control Delay (s)	0.0	0.4				
Lane LOS		A				
Approach Delay (s)	0.0	0.4				
Approach LOS						
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utilization			17.3%	ICU Level of Service		A
Analysis Period (min)			15			

HCM Unsignalized Intersection Capacity Analysis 5: Sunset Avenue & S Dwy.

FY PM
06/28/2023



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	40	54	72	0	0	48
Future Volume (Veh/h)	40	54	72	0	0	48
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	42	57	76	0	0	51
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage veh)						
Upstream signal (ft)		137				
pX, platoon unblocked						
vC, conflicting volume	76				217	76
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	76				217	76
tC, single (s)	4.1				6.4	6.2
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	97				100	95
cM capacity (veh/h)	1523				750	985
Direction, Lane #	EB 1	WB 1	SB 1			
Volume Total	99	76	51			
Volume Left	42	0	0			
Volume Right	0	0	51			
cSH	1523	1700	985			
Volume to Capacity	0.03	0.04	0.05			
Queue Length 95th (ft)	2	0	4			
Control Delay (s)	3.3	0.0	8.9			
Lane LOS	A		A			
Approach Delay (s)	3.3	0.0	8.9			
Approach LOS			A			
Intersection Summary						
Average Delay			3.4			
Intersection Capacity Utilization			15.1%	ICU Level of Service		A
Analysis Period (min)			15			

TABLE A-1

Valet Queuing Analysis
Club/Commercial Valet Lane - Inbound

Assumptions:

Service Rate = 1 minute per vehicle
 Volume = (33%)*(27 + 42 PM Peak Hour Inbound Vehicles) = 23 veh/hr
 Probability of the queue occurring 95% of the time

Calculations

$$Q = \frac{60 \text{ min/hr}}{1 \text{ min/veh}} = 60 \text{ veh/hr}$$

$$\rho = \frac{23 \text{ veh/hr}}{60 \text{ veh/hr}} = 0.38$$

$$\text{Queue} = \left[\frac{\text{LN}(0.05) - \text{LN}(0.38)}{\text{LN}(0.38)} \right] = 2.096 \text{ veh}$$

Valet Queuing Analysis
Club/Commercial Valet Lane - Outbound

Assumptions:

Service Rate = 1 minute per vehicle
 Volume = (33%)*(27 + 21 PM Peak Hour Outbound Vehicles) = 16 veh/hr
 Probability of the queue occurring 95% of the time

Calculations

$$Q = \frac{60 \text{ min/hr}}{1 \text{ min/veh}} = 60 \text{ veh/hr}$$

$$\rho = \frac{16 \text{ veh/hr}}{60 \text{ veh/hr}} = 0.27$$

$$\text{Queue} = \left[\frac{\text{LN}(0.05) - \text{LN}(0.27)}{\text{LN}(0.27)} \right] = 1.288 \text{ veh}$$

TABLE A-3

Valet Queuing Analysis
Event Valet Lane - Outbound

Assumptions:

Service Rate = 75 seconds per vehicle
 Volume = 100 Peak Hour Outbound Vehicles = (3 attendants) 33 veh/hr
 Probability of the queue occurring 95% of the time

Calculations

$$Q = \frac{60 \text{ min/hr}}{1.25 \text{ min/veh}} = 48 \text{ veh/hr}$$

$$\rho = \frac{33 \text{ veh/hr}}{48 \text{ veh/hr}} = 0.69$$

$$\text{Queue} = \left[\frac{\text{LN}(0.05) - \text{LN}(0.5)}{\text{LN}(0.5)} \right] = 7.073 \text{ veh}$$

North County Road & Sunrise Avenue
Northbound Queue Observations (max vehicles)

Intersection Cycle	Friday (3/31/23)	Saturday (4/1/23)
1	1	3
2	3	1
3	0	1
4	2	2
5	4	0
6	2	7
7	2	1
8	3	1
9	1	2
10	0	1
11	1	0
12	0	0
13	1	0
14	0	2
15	2	8
16	2	2
17	2	2
18	2	7
19	0	0
20	3	0
21	11	1
22	1	3
23	2	3
24	1	3
25	1	1
26	0	0
27	2	2
28	3	1
29	5	2
30	0	5
31	0	0
32	1	2
33	4	1
34	2	2
35	4	0
36	1	1
37	2	2
38	0	1
39	1	1
40	2	1
41	3	0

North County Road & Sunrise Avenue
Northbound Queue Observations (max vehicles)

Intersection Cycle	Friday (3/31/23)	Saturday (4/1/23)
42	3	2
43	2	4
44	2	0
45	1	0
46	7	2
47	6	5
48	0	2
49	6	7
50	1	2
51	0	5
52	2	0
53	1	2
54	3	6
55	0	2
56	2	1
57	2	3
58	0	0
59	1	0
60	0	0
61	0	1
62	1	0
63	1	0
64	0	2
65	1	2
66	0	3
67	0	2
68	1	2
69	2	1
70	3	0
71	1	1
72	2	2
73	0	0
74	3	2
75	0	1
76	2	1
77	3	0
78	0	2
79	2	1
80	0	1
81	0	0
82	3	1

North County Road & Sunrise Avenue
Northbound Queue Observations (max vehicles)

Intersection Cycle	Friday (3/31/23)	Saturday (4/1/23)
83	0	1
84	1	0
85	2	0
86	4	1
87	0	0
88	1	0
89	1	3
90	0	0
91	0	1
92	2	0
93	1	2
94	1	0
95	2	1
96	0	0
97	1	2
98	0	0
99	0	0
100	0	1
101	1	2
102	0	0
103	1	0
104	0	3
105	1	0
106	1	0
107	0	1
108	0	0
109	0	0
110	0	1
111	0	0
112	1	0
113	0	0
114	0	0
115	0	0
116	0	0
117	0	1
118	0	
119	0	
120	0	
121	0	
95th Perentile	4	5.1
50th Percentile	1	1