Traffic Impact Study

Park Hotel



355 19th Street Miami Beach, Florida

January 9th, 2019



Engineer's Certification

I. Carlos X. Valentin, P.E. # 78422, certify that I currently hold an active Professional Engineers License in the State of Florida and am competent through education and experience to provide engineering services in the civil and traffic engineering disciplines contained in this report. In addition, the firm Richard Garcia & Associates, Inc. holds a Certificate of Authorization # 9592 in the State of Florida. I further certify that this report was prepared by me or under my responsible charge as defined in Chapter 61G15-18.001 F.A.C. and that all statements, conclusions and recommendations made herein are true and correct to the best of my knowledge and ability.

PROJECT DESCRIPTION:

Park Hotel - Traffic Impact Study

PROJECT LOCATION:

355 19th Street Miami Beach, Florida

No. 78422 1/9/2019 Florida Registration No. 78422 Date



TABLE OF CONTENTS

Engineer's Certificationii
Executive Summary2
Introduction5
Project Location / Description5
Existing Condition (2018)7
Turning Movement Counts (TMC's)7
Operational Analysis - Intersection Level of Service (LOS)
Pedestrian & Bicycle Facilities9
Project Traffic10
Trip Generation
Trip Distribution
Trip Assignment
Proposed Future Condition (2020)15
Background Traffic Growth15
Future Traffic Volumes - Weekday PM Peak15
Operational Analysis - Intersection LOS15
Transportation Demand Management Plan19
Conclusion



Traffic Impact Study

LIST OF FIGURES

Figure 1: Location Map	5
Figure 2: Site Plan	6
Figure 3: Existing Seasonally Adjusted TMC's - PM Peak	8
Figure 4: CitiBike Stations	9
Figure 5: Traffic Analysis Zone (TAZ) Map	.12
Figure 6: Site Traffic (Project Net Trips) - PM Peak Hour of Generator (Weekday)	.13
Figure 7: Valet Trips - PM Peak	.14
Figure 8: Future Condition with Project (2020) - Weekday PM Peak	.16
Figure 9: Valet Services Traffic Circulation	. 18
Figure 10: Transportation Demand Management Plan	. 19

LIST OF TABLES

Table 2: Existing Condition LOS & Delay - PM Peak	Table 1: Intersection LOS Summary - Weekday PM Peak	4
Table 3: Trip Generation - PM Peak Hour of Generator (Weekday) 11 Table 4: Directional Trip Distribution Percentages 12 Table 5: Directional Trip Assignment 13 Table 6: Future Condition LOS & Delay - Weekday PM Peak 15 Table 7: Statistical Queuing Analysis Summary - Valet Operation 17	Table 2: Existing Condition LOS & Delay - PM Peak	8
Table 4: Directional Trip Distribution Percentages 12 Table 5: Directional Trip Assignment 13 Table 6: Future Condition LOS & Delay - Weekday PM Peak 15 Table 7: Statistical Queuing Analysis Summary - Valet Operation 17	Table 3: Trip Generation - PM Peak Hour of Generator (Weekday)	11
Table 5: Directional Trip Assignment 13 Table 6: Future Condition LOS & Delay - Weekday PM Peak 15 Table 7: Statistical Queuing Analysis Summary - Valet Operation 17	Table 4: Directional Trip Distribution Percentages	12
Table 6: Future Condition LOS & Delay - Weekday PM Peak	Table 5: Directional Trip Assignment	13
Table 7: Statistical Queuing Analysis Summary - Valet Operation 17	Table 6: Future Condition LOS & Delay - Weekday PM Peak	15
Table 7. statistical Cacality realities sammary valies operation	Table 7: Statistical Queuing Analysis Summary - Valet Operation	17

APPENDICES

Appendix 1: Traffic Impact Study Methodology
Appendix 2: Trip Generation
Appendix 3: Trip Distribution / Assignment
Appendix 4: Signal Timing, Background Growth and Adjustment Factor
Appendix 5: Traffic Counts (TMC's)
Appendix 6: Level of Service (LOS)
Appendix 7: Valet Operations
Appendix 8: Site Plan & Transportation Demand Management Plan



Executive Summary

This study was prepared to determine the vehicle trips associated with the subject project and to evaluate the traffic impacts to the study area. This report follows the traffic impact study methodology discussed with and approved by the City of Miami Beach during the scoping phase.

The subject site is located on the northeast corner of 19th Street and Park Avenue at the address 355 19th Street in the City of Miami Beach, Florida. This site has 32 multifamily housing units while the proposed redevelopment consists of a hotel with 100 rooms and a 800 square feet restaurant (café style with bar) with 60 seats. Moreover, this project will provide valet services and the drop-off will be on Park Avenue in front of the site. The project build-out year is slated for 2020.



The trip generation characteristics for the subject project were obtained from <u>ITE's Trip Generation Manual, 10th Edition</u>. The trip generation analysis was performed for a typical weekday's PM peak hour of the generator since the City requested traffic data between 10:00 PM - 12:00 AM. The following land uses, as identified by the Institute of Transportation Engineers (ITE), most closely resemble the

subject project. These land uses (LU) are as follows:

Existing:	LU 220: Multifamily Housing (Low-Rise) - 32 dwelling units
Proposed:	LU 310: Hotel - 100 rooms
	LU 931: Quality Restaurant - 800 square feet (60 seats)
	OR
	LU 925: Drinking Place - 800 square feet

The trip generation calculations for the proposed project yielded 55 net trips (33 trips-in & 22 trips-out) during the weekday's PM peak. Note, these vehicle trips are likely to be reduced based on the rate and extent of transit and pedestrian/bicycle, since neither of these adjustments were utilized in the analysis as a conservative approach.

The above peak hour trips were distributed to the studied intersections. Note, since the subject project will have valet services for all patrons, the valet trips were also distributed to the studied intersections. The trip distribution was performed consistent with the trip distribution percentages of TAZ 636 and by interpolating between the 2010 and 2040 TAZ data for the projected design year of 2020.

Manual Turning Movement Counts (TMC's) and operational characteristics were gathered at the six (6) intersections identified in Table 1 as discussed with and agreed to by the City of Miami Beach during the scoping phase. These turning



movement counts were collected on Friday, November 30th, 2018 from 10:00 PM to 12:00 AM. Subsequently, the PM peak hour volumes were determined, adjusted for peak seasonal variations by utilizing the Florida Department of Transportation Seasonal Factor (SF) and utilized in the operational analysis for the existing condition. As a result, the studied intersections yielded LOS A.

Based on historical trends and published traffic data from the Florida Department of Transportation (FDOT), a regression analysis was performed to estimate a growth rate to account for any potential background traffic growth within the project's vicinity. The highest growth rate yielded a reasonable 1.75 percent and was utilized to develop the future traffic volumes within the project's vicinity in 2020. The traffic volumes for the proposed future condition with project in 2020 were developed by augmenting the existing seasonally adjusted turning movement counts with the background traffic, the project net trips and valet trips. The future traffic volumes were evaluated and the analysis yielded LOS A for all the studied intersections except for the intersection of Washington Avenue and 20th Street that will operate at LOS B. Table 1 summarizes the LOS results.

Additionally, the subject project will provide valet services for all patrons. The proposed drop-off / pick-up point will be located on Park Avenue, right in front of the subject site and will be able to accommodate two (2) vehicles. A valet operation analysis was performed for the weekday PM peak condition. This analysis revealed that there is over 94 % probability of there being less than 2 vehicles in queue with 3 valet attendants. As such, it is our opinion that the proposed drop-off / pick-up point is adequate and will not block the right-of-way.

In conclusion, the studied intersections will operate at LOS B or better in the proposed future condition with project in 2020. Therefore, no off-site improvements are required or recommended at this time and an approval should be granted.



Existing Condition (2018) PM Peak (Weekday)								
	Location	Intersection	Overall		Critical Approach TWSC			
	Location	Control	LOS	Delay (sec)	Approach	LOS	Delay (sec)	
1	Washington Avenue & 19 Street	Traffic Signal	А	6.1	-	-	-	
2	Washington Avenue & 20 Street	Traffic Signal	А	9.7	-	-	-	
3	Park Avenue & 19 Street	Two-Way Stop	А	4.2	SB	А	9.3	
4	Park Avenue & 20 Street	All-Way Stop	А	7.7	-	1	-	
5	Liberty Avenue & 19 Street	Two-Way Stop	А	3.8	SB	А	9.2	
6	Liberty Avenue & 20 Street	Two-Way Stop	Α	6.9	EB	В	10.4	
Fu	ture Condition (with Project Trips) (2020)		PM Peak (Weekday)					
		Intersection	Overall		Critical Approach TWSC			
	Location	Control	LOS	Delay (sec)	Approach	LOS	Delay (sec)	
1	Washington Avenue & 19 Street	Traffic Signal	А	6.0	-	-	-	
2	Washington Avenue & 20 Street	Traffic Signal	В	10.7	-	-	-	
3	Park Avenue & 19 Street	Two-Way Stop	А	4.2	SB	А	9.7	
4	Park Avenue & 20 Street	All-Way Stop	Α	7.8	-	-	-	
5	Liberty Avenue & 19 Street	Traffic Signal	А	4.2	SB	А	9.2	
6	Liberty Avenue & 20 Street	Two-Way Stop	Α	7.9	WB	В	11.1	

Table 1: Intersection LOS Summary - Weekday PM Peak



Introduction

The purpose of this report is to determine the vehicle trips associated with the subject project and to evaluate the traffic impacts to the studied intersections. As such, an operational analysis was performed to determine the Level of Service. Lastly, this report follows the traffic impact study methodology discussed with and approved by the City of Miami Beach during the scoping phase.

Project Location / Description

The subject site is located on the northeast corner of 19th Street and Park Avenue at the address 355 19th Street in the City of Miami Beach, Florida. This site has 32 multifamily housing units while the proposed redevelopment consists of a hotel with 100 rooms and a 800 square feet restaurant (café style with bar) with 60 seats. The project build-out year is slated for 2020.

Moreover, this project will provide valet services and the drop-off will be on Park Avenue in front of the site. The Valet Operations section of this report describes further the traffic operations. Figure 1 depicts the site's location map while Figure 2 is the site plan provided for illustrative purposes only.



Figure 1: Location Map



RICHARD GARCIA & ASSOCIATES, INC.

Figure 2: Site Plan





Existing Condition (2018)

The purpose of this section is to identify the current operational and geometric characteristics of the most impacted intersections by the subject project in order to provide a comparison to future conditions.

Turning Movement Counts (TMC's)

Manual Turning Movement Counts (TMC's) were taken at the intersections identified below as discussed with and agreed to by the City of Miami Beach during the scoping phase. These turning movement counts were collected on Friday, November 30th, 2018 from 10:00 PM to 12:00 AM. Subsequently, the PM peak hour volumes were determined, adjusted for peak seasonal variations by utilizing the Florida Department of Transportation Seasonal Factor (SF) and utilized in the operational analysis for the existing condition. Traffic counts and operational characteristics were gathered at the following intersections:

- 1. Washington Avenue & 19th Street
- 2. Washington Avenue & 20th Street
- 3. Park Avenue & 19th Street
- 4. Park Avenue & 20th Street
- 5. Liberty Avenue & 19th Street
- 6. Liberty Avenue & 20th Street

Figure 3 depicts the existing seasonally adjusted PM peak hour TMC's. Appendix 5 contains the raw data and the tables utilized to develop the seasonally adjusted turning movement counts.

Operational Analysis - Intersection Level of Service (LOS)

The seasonally adjusted turning movement counts were utilized to perform the operational analysis for the studied intersections during the Friday's PM peak hour as requested by the City. This analysis was performed consistent with the traffic operational characteristics (i.e. lane geometry, traffic control, etc.) at the time data collection took place and follows the Highway Capacity Manual (HCM) methodology.

As a result, the studied intersections identified above are operating at LOS A. Table 2 summarizes the LOS results and vehicle delay. Appendix 6 contains other outputs such as volume to capacity ratio (V/C) and 95th Percentile Queue.



Figure 3: Existing Seasonally Adjusted TMC's - PM Peak



Table 2: Existing Condition LOS & Delay - PM Peak

Existing Condition (2018)			PM Peak (Weekday)				
Looption		Intersection		Overall	Critical	Approa	ach TWSC
	Eocation	Control	LOS	Delay (sec)	Approach	LOS	Delay (sec)
1	Washington Avenue & 19 Street	Traffic Signal	А	6.1	-	-	-
2	Washington Avenue & 20 Street	Traffic Signal	Α	9.7	-	-	-
3	Park Avenue & 19 Street	Two-Way Stop	Α	4.2	SB	А	9.3
4	Park Avenue & 20 Street	All-Way Stop	Α	7.7	-	-	-
5	Liberty Avenue & 19 Street	Two-Way Stop	Α	3.8	SB	А	9.2
6	Liberty Avenue & 20 Street	Two-Way Stop	А	6.9	EB	В	10.4



Pedestrian & Bicycle Facilities

The project's surrounding area has existing sidewalks and curb ramps for pedestrian use. Furthermore, most of the nearby intersections have high emphasis crosswalks as well as pedestrian features (i.e. signs, pedestrian countdown signals, etc). Therefore, it is fair to indicate that pedestrians are properly accommodated within the study area.

In addition, this report has identified a number of bike stations near the subject project. These are called CitiBike stations which were implemented in 2011 as a city-wide public transit program. This transit program consists of bike sharing and is intended to help reducing the need for vehicles throughout the city. Figure 4 below depicts the CitiBike stations located within close proximity of the subject project. Lastly, this transit mode is expected to be utilized by visitors and employees to access the site.



Figure 4: CitiBike Stations



Project Traffic

This section of the report describes the analysis for estimating the traffic associated with the subject project. The trip generation analysis conforms with the methodology described in the <u>Institute of Transportation Engineers (ITE) Trip</u> <u>Generation Handbook, 3rd Edition</u>.

Trip Generation



The trip generation characteristics for the subject project were obtained from <u>ITE's Trip Generation Manual, 10th Edition</u>. The trip generation analysis was performed for a typical weekday's PM peak hour of the generator since the City requested traffic data between 10:00 PM - 12:00 AM. The following land uses, as identified by the Institute of Transportation Engineers (ITE), most closely resemble the

subject project. These land uses (LU) are as follows:

Existing

• LU 220: Multifamily Housing (Low-Rise) - 32 dwelling units

Proposed

- LU 310: Hotel 100 rooms
- LU 931: Quality Restaurant 800 square feet (60 seats)
 OR
- LU 925: Drinking Place 800 square feet

The trip generation calculations for the proposed project yielded 55 net trips (33 trips-in & 22 trips-out) during the weekday's PM Peak Hour of Generator. Note, these vehicle trips are likely to be reduced based on the rate and extent of transit and pedestrian/bicycle, since neither of these adjustments were utilized in the analysis as a conservative approach. Table 3 summarizes the trip generation results for the PM peak hour of generator. Appendix 2 contains the supporting documentation.



Traffic Impact Study

Table 3: Trip Generation - PM Peak Hour of Generator (Weekday)

		ITE LU	TRIP GENERATION	PM PEAK HOUR OF GENERATOR TRIPS (WEEKDAY)			
LAND USE (LU)	UNITS	CODE	RATE / EQUATION	IN	OUT	TOTAL	
Existing							
Multifamily Housing (Low-Rise)	32 D.U.	220	0.67	12	9	21	
			T=0.66(X)+1.41	14	9	23	
Proposed							
Hotel	100 Rooms	310	0.61	35	26	61	
			Ln(T)=0.93Ln(X)-0.14	37	26	63	
Quality Restaurant (Café Style)	0.800 Th.SF.	931	8.28	4	3	7	
			Not Given	-	-	-	
OR							
Quality Restaurant (Café Style)	60 Seats	931	0.29	10	7	17	
			T=0.35(X)-16.83	2	2	4	
OR							
Drinking Place	0.800 Th.SF.	925	15.53	8	4	12	
			Not Given	-	-	-	
External Trips (Proposed Gross Trips)			47	33	80		
Internal Capture Trip Adjustment 5% of Gross Trips			2	2	4		
Net External Trips (External Trips - Existing Trips - Internal Trips)			33	22	55		
* Rideshare Trip Adjustment 40% of Gross Trips			19	13	32		
Valet Trips (External Trips - Rideshare	alet Trips (External Trips - Rideshare Trips)				20	48	

Notes: Trip Generation methodology conforms with the ITE Trip Generation, 10th Edition & ITE Trip Generation Handbook, 3rd Edition. Th.SF.= Thousand Square Feet; D.U. = Dwelling Units Trips utilized in the analysis.

* Rideshare Trip Adjustment was used to develope the valet peak hour trips.

Trip Distribution

The subject project is located within the Traffic Analysis Zone (TAZ) 636 as assigned by the Metropolitan Planning Organization's (MPO) on the Miami-Dade Transportation Plan (to the Year 2040) Directional Trips Distribution Report, October 2014. As such, the trip distribution was performed consistent with the trip distribution percentages of TAZ 636 and by interpolating between the 2010 and 2040 TAZ data for the projected design year of 2020. Figure 5 depicts the TAZ map while the directional trip distribution percentages are outlined in Table 4. Appendix 3 contains the supporting documentation.



Figure 5: Traffic Analysis Zone (TAZ) Map



Table 4	Directional T	rin Distribution	Percentages
	Directional i		reiceillages

	DISTRIBUTION PERCENTAGES (%)								
DIRECTION	MIAMI-DADE LR	DESIGN YEAR							
	2010	2010 2040							
NNE	10.70	19.50	13.63						
ENE	0.00	0.00	0.00						
ESE	0.00	0.00	0.00						
SSE	4.40	8.20	5.67						
SSW	10.00	14.80	11.60						
WSW	SW 34.00 29.50		32.50						
WNW	20.80	14.80	18.80						
NNW	20.10	20.10 13.30							
TOTAL	100.00	100.00	100.00						

Trip Assignment

The net trips generated by the subject project during the weekday PM peak hour of generator have been distributed into the four quadrants: North, South, East and West. Table 5 includes the trip distribution percentages and the corresponding trip assignments. Figure 6 depicts the net trips assigned to the studied intersections. Lastly, since the subject project will have valet services for all patrons, the valet trips were also distributed to the studied intersections. Note, the Valet Operations section further describes the proposed valet services.



HPB18-0252 Traffic Impact Study

Table 5: Directional Trip Assignment

DIRECTION	DISTRIBUTION (%)	DIRECTION	DIRECTION DISTRIBUTION		PM PEAK HOUR GENERATOR TRIPS			
DIRECTION	DESIGN YEAR	DIRECTION	Diotraborion	IN	OUT	TOTAL		
NNE	13.63		21 /70/	10	7	17		
ENE	0.00	NORTH	NORTH 31.47%	10	'	17		
ESE	0.00	EVOT	0.00%	0	0	0		
SSE	5.67	LAST	0.00 %	0	0	0		
SSW	11.60	SOLITH	17 27%	6	4	10		
WSW	32.50	300111	11.2170	0	4	10		
WNW	18.80	WEST	51 20%	17	11	29		
NNW	17.83	WEST	51.50%	17		20		
TOTAL	100.00		100.00%	33	22	55		

Figure 6: Site Traffic (Project Net Trips) - PM Peak Hour of Generator (Weekday)





Figure 7: Valet Trips - PM Peak





Proposed Future Condition (2020)

This section of the report describes the traffic parameters utilized to develop the future peak hour volumes and to evaluate the future condition with the project trips in 2020 (build-out year).

Background Traffic Growth

Using available roadway traffic data from the Florida Department of Transportation (FDOT Count Stations 5170 & 8414), a regression analysis was performed using the available data for each count station. The highest growth rate yielded a reasonable 1.75 percent. This growth rate was compounded and utilized in the analysis to account for any potential background traffic and to develop the future traffic volumes within the project's vicinity in 2020. Appendix 4 contains the supporting documentation.

Future Traffic Volumes - Weekday PM Peak

The traffic volumes for the proposed future condition with project in 2020 were developed by augmenting the existing seasonally adjusted turning movement counts with the background traffic, the project net trips and valet trips. The calculations for the specific movements are contained in Appendix 5. Figures 8 and 10 depict the future weekday and weekend PM peak hour, respectively.

Operational Analysis - Intersection LOS

The future traffic volumes with project traffic were evaluated to determine the Level of Service at each intersection in 2020. As a result, the studied intersections will maintain the existing LOS A during the weekday PM peak except for the intersection of Washington Avenue and 20th Street that will operate at LOS B. Table 6 summarizes the LOS and vehicle delay per approach for each intersection. Appendix 6 includes the Synchro software sheets with other outputs such as queue lengths and volume to capacity ratios.

Fu	ture Condition (with Project Trips) (2020)		PM Peak (Weekday)				
Location		Intersection	Overall		Critical Approach TWSC		
	Location	Control	LOS	Delay (sec)	Approach	LOS	Delay (sec)
1	Washington Avenue & 19 Street	Traffic Signal	А	6.0	-	-	-
2	Washington Avenue & 20 Street	Traffic Signal	В	10.7	-	-	-
3	Park Avenue & 19 Street	Two-Way Stop	А	4.2	SB	А	9.7
4	Park Avenue & 20 Street	All-Way Stop	А	7.8	-	-	-
5	Liberty Avenue & 19 Street	Traffic Signal	А	4.2	SB	А	9.2
6	Liberty Avenue & 20 Street	Two-Way Stop	А	7.9	WB	В	11.1

Table 6: Future Condition LOS & Delay - Weekday PM Peak



HPB18-0252 Traffic Impact Study

Park Hotel

Figure 8: Future Condition with Project (2020) - Weekday PM Peak





Valet Operation

The subject project will provide valet services for all patrons. The proposed drop-off / pick-up point will be located on Park Avenue, right in front of the subject site and will be able to accommodate two (2) vehicles. As such, this section provides a statistical queue analysis that focuses on the queuing demand of valet vehicles and the number of valet attendants needed to contain all valet vehicles within the two (2) valet spaces available. Figure 9 depicts the valet services traffic circulation.

Based on our analysis, a total of 48 vehicles (28 drop-off & 20 pick-up) will require valet services during the weekday PM peak. The valet demand was estimated using the trip generation results and a conservative 40 percent rideshare. Note, daily vehicle counts at a similar hotel within Miami Beach revealed over 60 percent rideshare. Appendix 1 contains the supporting documentation.

Using the above valet demand, a Statistical Queuing Analysis was performed to determine the probability of the number of vehicles using the valet that would exceed the maximum queuing spaces. Again, the proposed drop-off/pick-up point can accommodate two (2) valet vehicles. Additionally, it was further estimated that each vehicle has a service rate of 150 seconds, since multiple vehicles can be serviced at the same time from two valet spaces.

The valet analysis utilized a single channel model; this is generally referred to as an M/M/1 model. We find this approach will properly model valet queuing better than a more complex M/M/S model. As such, we found the Valet Operations would require 3 Valet Attendants to meet the peak demand during the weekday PM peak. The results found that there is over 94 % probability (94.1% drop-off & 97.9% pick-up) of there being less than 2 vehicles in queue with 3 valet attendants in this area. As such, it is our opinion that the proposed drop-off / pick-up point is adequate and will not block the right-of-way. Table 7 provides a summary of the above analysis while Appendix 7 provides the detailed Statistical Queuing Analysis.

Valet Services						
PM Peak	Valet	Valat Trips	Average Queue	Probability Vehicle (n) being less than		
	Operation	valet mps	Length (veh)	Maximum of 2 Vehicles Queuing		
Weekday	Drop-Off	28	0.25	94.1%		
vveeкday	Pick-Up	20	0.11	97.9%		

Table 7: Statistical Queuing Analysis Summary - Valet Operation





Figure 9: Valet Services Traffic Circulation



Transportation Demand Management Plan

The developer for the subject project recognizes the need to minimize the singleoccupant Auto-Trip Based mode of transportation. As such, every effort will be made to promote the use of various modes available to this site. Such strategies as carpooling and ridesharing will be considered in keeping with the City's effort to alleviate traffic congestion. Figure 10 depicts the proposed Transportation Demand Management Plan while Appendix 8 contains a signed copy of the TDM plan.

Figure 10: Transportation Demand Management Plan



December 21st, 2018

Transportation Demand Management Plan

Park Hotel, LLC recognizes the need to minimize the single occupant Auto-Trip-Based mode of transportation in Miami Beach. As such, we will promote the use of various alternative modes available to this site and encourage both Management and Staff towards the City's effort to alleviate traffic congestion.

With said objective in mind, we will implement the following TDM Program:

- Designate EDEL LIMA as the <u>Employee Transportation Coordinator</u>, under which
 responsibility he will provide all Staff with available information on ridesharing and
 biking alternatives to commute to/from the workplace. Additionally, he will
 coordinate the implementation of a car pooling program between employees.
- Bike Racks: the company will provide a 16 units bike rack for the use of the Managers and/or Employees that decide to use this alternative transportation.
- Employees Lockers & Bathroom facility will be provided for this same objective.
- Bicycles: The company will provide non-interest bearing loans to all Employees towards the purchase of a bicycle, with an individual cap of \$100
- Carpooling: The company will provide a 50% for those Employees that Carpool on their commute to/from the workplace (2+ employees per car).
- Communication: The Park Hotel will showcase all "ridesharing" services, such as Uber, Lyft, Car2Go in its corporate communication, including its web page, social media, brochures and Front Desk banners.
- Telecommuting: Park Hotel, LLC will allow Management to work from home one or more days a week when operations allow to do so.

The Park Hotel will employ around 15 to 20 full time & part time Employees on a 5 daily Shifts basis.



Conclusion

In conclusion, the studied intersections are operating at LOS A during the weekday's PM peak hour of generator and will continue to do so in the proposed future condition with project in 2020. Therefore, no off-site improvements are required or recommended at this time since the subject project will not have a negative impact on traffic operations within the study area.

Additionally, a valet operations analysis was performed for the weekday PM peak condition. This analysis revealed that there is over 94 % probability of there being less than 2 vehicles in queue with 3 valet attendants in the proposed valet service area along Park Avenue. As such, it is our opinion that the proposed drop-off / pick-up point is adequate and will not block the right-of-way.



Appendix 1: Traffic Impact Study Methodology



MIAMIBEACH

Transportation Department, 1688 Meridian Avenue, Suite 801r Miami Beach, Florida 33139, www.miamibeachfl.gov 305.673.7514 Page 1 of 2 LAST UPDATED: 06/26/18

Prope	erty address: 355 19th Street Board: HPB Date: 11.20	.2018
	TRANSPORTATION DEPARTMENT CHECK LIST	
	Incomplete, or submittals found to be insufficient will not be placed on a Board agenda.	
ITEM #	ITEMS TO BE SUBMITTED BY APPLICANT 15 DAYS PRIOR BOARD FIRST SUBMITTAL (VIA CSS) ** To be uploaded online (CSS) by the applicant before 1:00 pm ALL PLANS MUST BE DIMENSIONED AND LEGIBLE. INCLUDE A GRAPHIC SCALE.	Require
1	Copy of signed and dated check list issued at Transportation meeting.	
2	Contents of Traffic Study	x
а	Name of development.	x
b	All proposed uses.	x
с 3	A legible map showing the study site in relation to the surrounding network. Context Location Plan, Min 8.5"X11" Color Aerial 1/2 mile radius, identifying project and showing name of streets. (no Google images) Land Use Information	x
a	Zoning district	x
b	Existing land uses.	x
с	All proposed uses.	x
4	Site Plan, Floor plans and Site Accessibility.	
a	Survey: original signed & sealed, dated no more than six months from date of application. Survey must provide: lot area, grade per Section 114-1 of the City Code. (If no sidewalk exists, provide the elevation of the crown of the road) and spot elevations.	x
b	Site plan -(fully dimensioned with setbacks, existing and proposed, including adjacent right-of-way widths). with a brief narrative identifying the key features below on the plan/drawing:	x
С	North arrow and legend shall be placed on drawings and figures	x
d	Site Boundaries and adjacent streets (Street Names	X
e	Location of existing driveways on site and/or street intersections in close proximity to the site (include dimensions)	x
f	Existing rights-of-way of adjacent roadways, lane configurations, and width of pavement	х
g	Existing sidewalks with dimensions and/or existing multi use trails on all adjacent streets	X
h	Proposed site plan/ floor plans:	X
I	Proposed building configuration and pedestrian access including sidewalks (include dimensions)	X
J	Identify: setbacks <u>X</u> Height Drive aisle widths <u>X</u> Streets and sidewalks widths <u>X</u>	X
ĸ	Location and design of all proposed driveways Parking layout, internal circulation	Х
1	# parking spaces & dimensions Loading spaces locations & dimensions	X
m	# of bicycle parking spaces	X
n	Interior and loading area location & dimensions X	X
0	Delivery route \underline{x} Sanitation operation \underline{x} Valet drop-off & pick-up \underline{x} Valet route in and out \underline{x}	1000
p ~	Valet route to and from <u>X</u> auto-turn analysis for delivery and sanitation vehicles <u>X</u>	x
9	Preliminary on-street loading plan	x
[c	Existing and expressed medians 2 median experience	
t	Existing Conditions Drawings (Floor Plans & Elevations with dimensions). Number of seats, furniture layout if applicable	x
u	Proposed Floor Plans and Roof Plan, including mechanical equipment plan and section marks. Plans shall indicate location of all property lines and setbacks.	x
		1

Indicate N/A If Not Applicable

MIAMIBEACH

Page 2 of 2 LAST UPDATED: 06/26/18

Transportation Department, 1688 Meridian Avenue, Suite 801r Miami Beach, Florida 33139, www.miamibeachfl.gov 305.673.7514

Property address:

v	Maneuvering plan for loading within the existing/proposed conditions, delivery and garbage trucks size (length and width).	x
	Floor Plan (dimensioned)	-
w	Total floor area	X
x	Identify # seats indoors X outdoors X seating in public right of way X Total X	
y	Occupancy load indoors and outdoors per venue X Total when applicable X	
5	Influence Area	x
	Study area will be determined during the methodology meeting	
	Committed developments within study area including trip generation	
6	Data Collection	x
	Data collection of vehicles, heavy vehicles, bicycles, pedestrians, transit routes and transit ridership at stops within study area	
-	Field visit and observations shall be documented with pictures and other reports as applicable	X
	All data collected shall be presented in raw(excel) and pdf format	
7	Existing Condition Analysis [®]	x
	Roadway network characteristics within the study area.	
	Traffic volume (Graphics must be provided which show the various peak volume and turning movements)	
	Capacity and Level of Service(LOS) analysis utilizing Traffic Modelling Software(Synchro latest version)	
	The signal timing data sheets (if applicable)	
	Synchro model results	
8	Trip Generation	x
	Trip generation calculations presented in table format based on ITE Trip Generation Manual 9th Edition or another acceptable and pre-agreed method.	x
9	Trip Distribution	X
	Trip distribution analysis presented in table and figure format.	
10	Future Condition Analysis	x
	Background Growth Traffic and Future Traffic Analysis	
	Synchro model results	
11	Queue Analysis	
12	Multi-Modal Review and Analysis	
	Bicycle and Pedestrian Facilities	x
	Provide information on existing and committed bicycle facilities in the area.	x
	SUPPLEMENTAL STUDIES - to be determined during methodology meeting	
13	Valet Service Analysis	x
14	Transportation Demand Management Plan	Х
15	Other:	
	Notes: The applicant is responsible for checking above referenced sections of the Code. If not applicable write N/A	

ADDITIONAL INFORMATION AND ACKNOWLEDGEMENTS

A. Other information/documentation required for First submittal will be identified during Pre-Application meeting but may be modified based on further analysis.

Richard Garcia, P.E.

Applicant's or designee's Name

Applicant's or designee's signature

11/20/2018 Date

Initials:

Carlos X. Valentin

From:	Akcay, Firat [FiratAkcay@miamibeachfl.gov]
Sent:	Tuesday, November 20, 2018 1:00 PM
To:	'Richard Garcia'; Ferrer, Josiel
Cc:	GonzalezAJ@gtlaw.com; edellima@buslam.com; ivanbustojij@buslam.com; Carlos Valentin
Subject:	RE: Sadigo Hotel Traffic Study - Checklist
Attachments:	Transportation Check List 11-14-18.pdf

Richard,

Please see attached for the checklist. Please review and let us know if you have any question. The checklist is a guide for you to refer to in providing a complete study.

Based on the count collected in this area, the peak hours are determined to be Friday night 10 PM - 12 AM.

TMC are to be collected at the following intersections

- Washington Avenue x 19th Street
- Washington Avenue x 20th Street
- Park Avenue x 19th Street
- Park Avenue x 20th Street
- Liberty Avenue x 19th Street
- Liberty Avenue x 20th Street

Please let us know if you have any questions during any aspect of the study, We will be glad to answer any questions that will help you on a timely delivery. Thank you

MIAMIBEACH

Firat Akcay, Transportation Analyst TRANSPORTATION DEPARTMENT 1688 Meridian Avenue, Suite 801, Miami Beach, FL 33139 Tel: 305-673-7000 X 6839 / www.miamibeachfl.gov

We are committed to providing excellent public service and safety to all who live, work and play in our vibrant, tropical, historic, community.



Please do not print this e-mail unless necessary.

From: Richard Garcia [mailto:rgarcia@rgatraffic.com]
Sent: Tuesday, November 20, 2018 11:35 AM
To: Akcay, Firat; Ferrer, Josiel
Cc: GonzalezAJ@gtlaw.com; edellima@buslam.com; ivanbustoiii@buslam.com; Carlos Valentin
Subject: RE: Sadigo Hotel Traffic Study - Checklist

Gents,

It was a pleasure meeting with you last week. Just following up on the traffic study Checklist... Could you kindly forward that to us at your earliest convenience.

Remember, we have a deadline of December 10th, so we need to begin coordinating. Thanks again.

Respectfully,

Richard Garcia, P.E.



Richard Garcia & Associates Inc. 8065 NW 98th Street Hialeah Gardens, FL 33016 PH: 305-362-0677 FAX: 305-675-6474 Appendix 2: Trip Generation



TABLE: A1

HPB18-0252

TRIP GENERATION ANALYSIS PM PEAK HOUR OF GENERATOR (WEEKDAY)

Project Name: Park Hotel

		ITE LU	TRIP GENERATION	PM PEAK HOUR OF GENERATOR TRIPS (WEEKDAY)				
LAND USE (LU)	UNITS	CODE	RATE / EQUATION	%	IN	%	OUT	TOTAL
Existing								
Multifamily Housing (Low-Rise)	32 D.U.	220	0.67	59%	12	41%	9	21
			T=0.66(X)+1.41	59%	14	41%	9	23
Proposed								
Hotel	100 Rooms	310	0.61	58%	35	42%	26	61
			Ln(T)=0.93Ln(X)-0.14	58%	37	42%	26	63
Quality Restaurant (Café Style)	0.800 Th.SF.	931	8.28	61%	4	39%	3	7
			Not Given	-	-	-	-	-
OR								
Quality Restaurant (Café Style)	60 Seats	931	0.29	59%	10	41%	7	17
			T=0.35(X)-16.83	59%	2	41%	2	4
OR								
Drinking Place	0.800 Th.SF.	925	15.53	68%	8	32%	4	12
			Not Given	-	-	-	-	-
External Trips (Proposed Gross Trips,	1			59%	47	41%	33	80
Internal Capture Trip Adjustment	5% of Gross 7	Trips		50%	2	50%	2	4
Net External Trips (External Trips - E	xisting Trips - Internal	l Trips)		60%	33	40%	22	55
* Rideshare Trip Adjustment	40% of Gross T	Trips		59%	19	41%	13	32
Valet Trips (External Trips - Rideshare	Trips)			59%	28	41%	20	48

Notes: Trip Generation methodology conforms with the ITE Trip Generation, 10th Edition & ITE Trip Generation Handbook, 3rd Edition.

Th.SF.= Thousand Square Feet; D.U. = Dwelling Units

Trips utilized in the analysis.

* Rideshare Trip Adjustment was used to develope the valet peak hour trips.

Multifamily Housing (Low-Rise) (220)

Vehicle Trip Ends vs: On a:	Dwelling Units Weekday, PM Peak Hour of Generator	
Setting/Location:	General Urban/Suburban	
Number of Studies:	35	
Avg. Num. of Dwelling Units:	146	
Directional Distribution:	59% entering, 41% exiting	

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.67	0.41 - 1.25	0.14

Data Plot and Equation



35

H (;	lotel 310)
Vehicle Trip Ends vs: On a:	:: Rooms :: Weekday, PM Peak Hour of Generator
Setting/Location Number of Studies Avg. Num. of Rooms Directional Distribution	 General Urban/Suburban 29 292 58% entering, 42% exiting
Vehicle Trip Generation per Room	
Average Rate Range	of Rates Standard Deviation
0.61 0.22 -	- 0.97 0.18

Data Plot and Equation





HPB18-0252

÷

1

Quality Restaurant (931)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA On a: Weekday, PM Peak Hour of Generator 8-075

Setting/Location: General Urban/Suburban Number of Studies: 15 000 0

1000 Sq. Ft. GFA:	9
Directional Distribution:	61% entering, 39% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
8.28	2.66 - 15.90	3.89

Data Plot and Equation



ite=

Quality Restaurant (931)

Vehicle Trip Ends vs: Seats On a: Weekday, PM Peak Hour of Generator Setting/Location: General Urban/Suburban

ootenig/Location.	General Orban/Suburban
Number of Studies:	10
Avg. Num. of Seats:	272
Directional Distribution:	59% entering, 41% exiting

Vehicle Trip Generation per Seat

Range of Rates	Standard Deviation	
	and the second	
0.18 - 0.44	0.09	
	0.18 - 0.44	NameStandard Deviation0.18 - 0.440.09

Data Plot and Equation



84

Drinking Place

(925)

Vehicle Trip Ends vs:1000 Sq. Ft. GFAOn a:Weekday,
PM Peak Hour of GeneratorSetting/Location:General Urban/SuburbanNumber of Studies:81000 Sq. Ft. GFA:3Directional Distribution:68% entering, 32% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
15.53	3.74 - 30.09	8.42

Data Plot and Equation



56



Park Hotel MULTI-USE DEVELOPMENT TRIP GENERATION AND INTERNAL CAPTURE SUMMARY

Time Period PM Peak Hour

Analyst CV

Date December 19, 2018

LAND USE A Hotel LAND USE B Restaurant ITE LU Code 310 71% 26 1 7% 1 ITE LU Code 931 Size 100 Rooms Demand Balanced Demand Size 60 Seats Exit to External Enter from External 25 Total Internal External Total Internal External 9 Enter 37 36 Enter 10 9 1 Exit 26 25 1 Exit 7 1 6 Total 63 2 61 36 68% 18 1 5% 1 Total 17 2 15 6 % 100% 3% 97% Enter from External Demand Balanced Demand % 100% 12% 88% Exit to External

	Net External	Trips for Multi-Use Developm	nent	
	LAND USE A	LAND USE B	TOTAL	
Enter	36	9	45	INTERNAL CAPTURE
Exit	25	6	31	
Total	61	15	76	5%
Single-Use Trip Gen. Est.	63	17	80	

Sources: ITE Trip Generation Handbook, 3rd Edition. Input variables.
		WEE	KDAY
		AM Peak Hour	PM Peak Hour
From OFFICE	To Retail	28%	20%
	To Restaurant	63%	4%
	To Cinema/Entertainment	0%	0%
	To Residential	1%	2%
	To Hotel	0%	0%
From RETAIL	To Office	29%	2%
	To Restaurant	13%	29%
	To Cinema/Entertainment	0%	4%
	To Residential	14%	26%
	To Hotel	0%	5%
From RESTAURANT	To Office	31%	3%
	To Retail	14%	41%
	To Cinema/Entertainment	0%	8%
	To Residential	4%	18%
	To Hotel	3%	7%
From	To Office	0%	2%
CINEMA/ENTERTAINMENT	To Retail	0%	21%
	To Restaurant	0%	31%
	To Residential	0%	8%
	To Hotel	0%	2%
From RESIDENTIAL	To Office	2%	4%
	To Retail	1%	42%
	To Restaurant	20%	21%
	To Cinema/Entertainment	0%	0%
	To Hotel	0%	3%
From HOTEL	To Office	75%	0%
	To Retail	14%	16%
	To Restaurant	9%	68%
	To Cinema/Entertainment	0%	0%
	To Residential	0%	2%

Table 6.1 Unconstrained Internal Person Trip Capture Rates for Trip Origins within a Mixed-Use Development

.

. *

٦

Ŀ

÷

· .

٩

9

ļ

ļ

Source: Bochner, B., K. Hooper, B. Sperry, and R. Dunphy. NCHRP Report 684: *Enhancing Internal Trip Capture Estimation for Mixed-Use Developments*. Washington, DC: Transportation Research Board, Tables 99 and 100, 2011.

		Wee	ekday
		AM Peak Hour	PM Peak Hour
To OFFICE	From Retail	4%	31%
	From Restaurant	14%	30%
	From Cinema/Entertainment	0%	6%
	From Residential	3%	57%
	From Hotel	3%	0%
To RETAIL	From Office	32%	8%
	From Restaurant	8%	50%
	From Cinema/Entertainment	0%	4%
	From Residential	17%	10%
	From Hotel	4%	2%
To RESTAURANT	From Office	23%	2%
	From Retail	50%	29%
	From Cinema/Entertainment	0%	3%
	From Residential	20%	14%
	From Hotel	6%	5%
То	From Office	0%	1%
CINEMA/ENTERTAINMENT	From Retail	0%	26%
	From Restaurant	0%	32%
	From Residential	0%	0%
	From Hotel	0%	0%
To RESIDENTIAL	From Office	0%	4%
	From Retail	2%	46%
	From Restaurant	5%	16%
	From Cinema/Entertainment	0%	4%
	From Hotel	0%	0%
To HOTEL	From Office	0%	0%
	From Retail	0%	17%
	From Restaurant	4%	71%
	From Cinema/Entertainment	0%	1%
	From Residential	0%	12%

Table 6.2 Unconstrained Internal Person Trip Capture Rates for Trip Destinations within a Mixed-Use Development

Source: Bochner, B., K. Hooper, B. Sperry, and R. Dunphy. NCHRP Report 684: *Enhancing Internal Trip Capture Estimation for Mixed-Use Developments*. Washington, DC: Transportation Research Board, Tables 101 and 102, 2011.

Hotel Drop-Off Area Daily Vehicle Count

Redbury Hotel - 1776 Collins Avenue Miami Beach, FL

Type of		Date / Ni	umber of	Vehicles		Volet	Non	Total
Transportation	20-Nov	30-Nov	1-Dec	2-Dec	3-Dec	valet	Valet	Total
Taxi	1				4		5	5
Uber (TNC)	2	1	2	3	5		13	13
Lyft (TNC)	2		1	1			4	4
Own Car	3					3		3
Rented	4	3	5	3		15		15
Shuttle		2	4	1			7	7
Total	12	6	12	8	9	18	29	47

Valet (Own Car & Rented)	18	38%
Non Valet (Taxi, Uber, Lyft, Shuttle)	29	62%

Appendix 3: Trip Distribution / Assignment



Site Traffic (Net Trips) - PM Peak Hour





Park Hotel

TABLE: A2

Cardinal Distribution PM Peak Hour of Generator (Weekday) Traffic Analysis Zone (TAZ) 636

Project Name: Park Hotel

DIRECTION	DISTRIBUTION (%)	DIRECTION	DISTRIBUTION	PM PEAK	HOUR GENER	ATOR TRIPS
	DESIGN YEAR	DIRECTION	DISTRIBUTION	IN	OUT	TOTAL
	13.63 0.00	NORTH	31.47%	10	7	17
ESE SSE	0.00 5.67	EAST	0.00%	O	0	0
SSW WSW	11.60 32.50	SOUTH	17.27%	6	4	10
WNW NNW	18.80 17.83	WEST	51.30%	17	11	28
TOTAL	100.00		100.00%	33	22	55



TABLE: A2-1

Cardinal Distribution PM Peak Hour of Generator (Weekday) Traffic Analysis Zone (TAZ) 636

Project Name: Park Hotel

	DISTRIB	UTION PERCENTA	GES (%)	PM PEAK	HOUR OF GENERA	TOR TRIPS
DIRECTION	MIAMI-DADE LR	TP MODEL YEAR	DESIGN YEAR			
	2010	2040	2020	IN	001	TOTAL
NNE	10.70	19.50	13.63	4	3	7
ENE	0.00	0.00	0.00	0	ő	
ESE	0.00	0.00	0.00	0	Ő	0
SSE	4.40	8.20	5.67	2	1	3
SSW	10.00	14.80	11.60	4	3	7
WSW	34.00	29.50	32.50	11	7	18
WNW	20.80	14.80	18.80	6	4	10
NNW	20.10	13.30	17.83	6	4	10
TOTAL	100.00	100.00	100.00	33	22	55

Note:

Based on Miami-Dade Transportation Plan (to the Year 2040) Directional Trip Distribution Report, October 2014. Since the current data is only available for the model years 2010 and 2040, the eight (8) cardinal directions were interpolated to the design year of 2020.

TABLE: A2-2

PM PEAK HOUR GENERATOR	IN	OUT	TOTAL
TRIPS:	33	22	55
PERCENT:	60.00%	40.00%	(Calculated)

DIRECTION	DISTRIBUTION %	IBUTION % INGRESS EGRESS		SS	TOTAL	
		CALCULATED	USED	CALCULATED	USED	
NNE	13.63	4.499	4	2.999	3	7
ENE	0.00	0.000	0	0.000	0	0
ESE	0.00	0.000	0	0.000	0	0
SSE	5.67	1.870	2	1.247	1	3
SSW	11.60	3.828	4	2.552	3	7
WSW	32.50	10.725	11	7.150	7	18
WNW	18.80	6.204	6	4.136	4	10
NNW	17.83	5.885	6	3.923	4	10
TOTAL	100.00	33.011	33	22.007	22	55

÷.



(ZAT) **JNOS ZIZYJANA DIFFAR**



MIAMI-DADE 2040 Long Range Transportation Plan Directional Trip Distribution Report October 23, 2014













MIAMI-DADE LONG RANGE TRANSPORTATION PLAN UPDATE TO THE YEAR 2040

Miami-Dade 2010 Directional Distribution Summary											
Orig	jin TAZ			1.2.30	(Cardinal I	Direction	S			
County TAZ	Regional TAZ		NNE	ENE	ESE	SSE	SSW	wsw	WNW	NNW	Total
636	3536	PERCENT	10.7	0.0	0.0	4.4	10.0	34.0	20.8	20.1	•
637	3537	TRIPS	437	39	52	212	109	449	313	207	1,818
637	3537	PERCENT	24.0	2.2	2.9	11.7	6.0	24.7	17.2	11.4	
638	3538	TRIPS	148	25	57	108	66	231	258	107	1,000
638	3538	PERCENT	14.8	2.5	5.7	10.8	6.6	23.1	25.8	10.7	
639	3539	TRIPS	694	286	232	913	139	1,445	989	693	5,391
639	3539	PERCENT	12.9	5.3	4.3	16.9	2.6	26.8	18.4	12.9	
640	3540	TRIPS	436	242	845	100	107	663	503	303	3,199
640	3540	PERCENT	13.6	7.6	26.4	3.1	3.3	20.7	15.7	9.5	
641	3541	TRIPS	1,374	1,440	228	555	352	2,014	2,014	1,124	9,101
641	3541	PERCENT	15.1	15.8	2.5	6.1	3.9	22.1	22.1	12.4	
642	3542	TRIPS	2,054	891	109	1,000	541	3,435	3,075	2,196	13,301
642	3542	PERCENT	15.4	6.7	0.8	7.5	4.1	25.8	23.1	16.5	
643	3543	TRIPS	1,551	277	0	514	462	2,180	2,043	1,648	8,675
643	3543	PERCENT	17.9	3.2	0.0	5.9	5.3	25.1	23.6	19.0	
644	3544	TRIPS	1,376	0	0	0	1,181	3,638	3,350	2,709	12,254
644	3544	PERCENT	11.2	0.0	0.0	0.0	9.6	29.7	27.3	22.1	
645	3545	TRIPS	547	0	0	0	341	1,032	1,603	1,258	4,781
645	3545	PERCENT	11.4	0.0	0.0	0.0	7.1	21.6	33.5	26.3	
646	3546	TRIPS	862	0	61	243	184	1,226	1,566	1,133	5,275
646	3546	PERCENT	16.3	0.0	1.2	4.6	3.5	23.2	29.7	21.5	
647	3547	TRIPS	454	68	83	148	89	427	406	402	2,077
647	3547	PERCENT	21.9	3.3	4.0	7.1	4.3	20.6	19.6	19.4	
648	3548	TRIPS	1,234	415	131	265	56	788	950	546	4,385
648	3548	PERCENT	28.1	9.5	3.0	6.0	1.3	18.0	21.7	12.5	
649	3549	TRIPS	846	215	84	123	15	631	680	403	2,997
649	3549	PERCENT	28.2	7.2	2.8	4.1	0.5	21.1	22.7	13.5	
650	3550	TRIPS	124	133	83	0	20	325	229	66	980
650	3550	PERCENT	12.7	13.6	8.5	0.0	2.0	33.2	23.4	6.7	
651	3551	TRIPS	612	46	55	0	11	438	656	555	2,373
651	3551	PERCENT	25.8	1.9	2.3	0.0	0.5	18.5	27.6	23.4	
652	3552	TRIPS	743	68	63	25	87	625	873	981	3,465
652	3552	PERCENT	21.4	2.0	1.8	0.7	2.5	18.0	25.2	28.3	
653	3553	TRIPS	708	34	64	143	67	703	835	753	3,307
653	3553	PERCENT	21.4	1.0	1.9	4.3	2.0	21.3	25.3	22.8	
654	3554	TRIPS	490	0	203	74	114	628	1,068	1,058	3,635
654	3554	PERCENT	13.5	0.0	5.6	2.0	3.1	17.3	29.4	29.1	
655	3555	TRIPS	1,475	0	0	0	368	1,892	2,676	2,034	8,445
655	3555	PERCENT	17.5	0.0	0.0	0.0	4.4	22.4	31.7	24.1	
656	3556	TRIPS	372	0	0	0	96	740	997	698	2,903
656	3556	PERCENT	12.8	0.0	0.0	0.0	3.3	25.5	34.3	24.0	

MIAMI-DADE LONG RANGE TRANSPORTATION PLAN UPDATE TO THE YEAR 2040

	Miami-Dade 2040 Directional Distribution Summar							nmary			
Orig	in TAZ			13.13	(Cardinal I	Direction	s	1.1.1.1.1		See 4
County TAZ	Regional TAZ		NNE	ENE	ESE	SSE	SSW	wsw	WNW	NNW	Total
636	3536	PERCENT	19.5	0.0	0.0	8.2	14.8	29.5	14.8	13.3	\$
637	3537	TRIPS	374	82	83	225	55	396	261	151	1,627
637	3537	PERCENT	23.0	5.0	5.1	13.8	3.4	24.3	16.0	9.3	
638	3538	TRIPS	232	28	34	125	70	269	193	126	1,077
638	3538	PERCENT	21.5	2.6	3.2	11.6	6.5	25.0	17.9	11.7	
639	3539	TRIPS	735	283	169	948	113	1,300	821	476	4,845
639	3539	PERCENT	15.2	5.8	3.5	19.6	2.3	26.8	17.0	9.8	_
640	3540	TRIPS	430	255	683	151	73	932	515	373	3,412
640	3540	PERCENT	12.6	7.5	20.0	4.4	2.1	27.3	15.1	10.9	
641	3541	TRIPS	1,419	1,154	177	632	303	1,982	1,752	1.049	8,468
641	3541	PERCENT	16.8	13.6	2.1	7.5	3.6	23.4	20.7	12.4	
642	3542	TRIPS	2,179	1,098	137	956	454	3,066	2,615	1,535	12,040
642	3542	PERCENT	18.1	9.1	1.1	7.9	3.8	25.5	21.7	12.8	
643	3543	TRIPS	2,025	464	0	785	437	2,968	1,920	1,574	10,173
643	3543	PERCENT	19.9	4.6	0.0	7.7	4.3	29.2	18.9	15.5	
644	3544	TRIPS	2,373	0	0	0	1,831	4,426	3,267	2,854	14,751
644	3544	PERCENT	16.1	0.0	0.0	0.0	12.4	30.0	22.2	19.4	
645	3545	TRIPS	1,336	0	0	0	789	1,367	1,649	1,160	6,301
645	3545	PERCENT	21.2	0.0	0.0	0.0	12.5	21.7	26.2	18.4	
646	3546	TRIPS	950	0	142	324	255	1,435	1,393	1.140	5.639
646	3546	PERCENT	16.9	0.0	2.5	5.8	4.5	25.5	24.7	20.2	-,
647	3547	TRIPS	400	97	99	84	58	528	545	323	2,134
647	3547	PERCENT	18.7	4.6	4.6	3.9	2.7	24.7	25.5	15.1	
648	3548	TRIPS	1,129	496	172	440	46	1,080	1,249	650	5,262
648	3548	PERCENT	21.5	9.4	3.3	8.4	0.9	20.5	23.7	12.4	
649	3549	TRIPS	917	197	118	194	38	829	1,043	478	3,814
649	3549	PERCENT	24.0	5.2	3.1	5.1	1.0	21.7	27.4	12.5	
650	3550	TRIPS	88	112	79	9	31	340	412	150	1,221
650	3550	PERCENT	7.2	9.2	6.5	0.7	2.5	27.9	33.7	12.3	
651	3551	TRIPS	833	9	103	0	52	472	1,049	629	3,147
651	3551	PERCENT	26.5	0.3	3.3	0.0	1.7	15.0	33.3	20.0	
652	3552	TRIPS	856	91	112	82	128	551	1.157	859	3,836
652	3552	PERCENT	22.3	2.4	2.9	2.1	3.3	14.4	30.2	22.4	0,000
653	3553	TRIPS	659	74	119	117	68	718	812	627	3,194
653	3553	PERCENT	20.6	2.3	3.7	3.7	2.1	22.5	25.4	19.6	
654	3554	TRIPS	814	0	220	127	186	1,003	1,184	881	4,415
654	3554	PERCENT	18.4	0.0	5.0	2.9	4.2	22.7	26.8	20.0	
655	3555	TRIPS	2,196	0	0	0	807	1,970	3,347	2,212	10,532
655	3555	PERCENT	20.9	0.0	0.0	0.0	7.7	18.7	31.8	21.0	
656	3556	TRIPS	565	0	0	0	108	489	1,022	769	2,953
656	3556	PERCENT	19.1	0.0	0.0	0.0	3.7	16.6	34.6	26.0	0.000

Appendix 4: Signal Timing, Background Growth and Adjustment Factor





MIAMI-DADE ATMS SIGNAL DATA SHEET

Signal Asset ID:	3394
Signal Location:	Washington Ave & 19 St
Analysis Period:	AM / PM (Circle One)
Local Time of Day	Schedule: <u>8</u> Plan
Local Time of Day	Function: Setting (Blank or Number#)
Signal Settings:	~

(i.e. Blank, Plan #1 - Phase Bank 1, Max 1)

80

Cycle Length: Offset:

seconds seconds

PHASE:	Ф1	Ф2	
	\downarrow \uparrow	4	
WALK	0	5	
DON'TWALK	0	24	
MIN INITIAL	16	7	
VEH EXT	l	2.5	
GREEN	3.9	29	
YELLOW	4	4	
RED	2	2	
SPLIT	45	35	

Print Time:

TOD Schedule Report for 3394: Washington Av&19 St

Print Date:

12/3/2018												9:56 AM
<u>Asset</u>		Intersection	L	i	<u>TOD</u> Schedule	<u>Op Mode</u>	<u>Plan #</u>	<u>Cycle</u>	<u>Offset</u>	<u>TOD</u> Setting	<u>Active</u> <u>PhaseBank</u>	<u>Active</u> <u>Maximum</u>
3394	Was	hington Ava	319 St	D	OW-2	TOD	[04] HEAVY AM PEAK	100	51	N/A	1	Max 2
				<u>Splits</u>								
<u>PH 1</u>	<u>PH 2</u>	<u>PH 3</u>	<u>PH 4</u>	<u>PH 5</u>	<u>PH 6</u>	<u>PH 7</u>	<u>PH 8</u>					
-	SBT	-	WBT	-	NBT	-	-					
0	59	0	29	0	59	0	0					
			4	1								
	¥											

Active Phase Bank: Phase Bank 1

<u>Phase</u>	Walk	<u>Don't Walk</u>	<u>Min Initial</u>	<u>Veh Ext</u>	Max Limit	<u>Max 2</u>	<u>Yellow</u>	<u>Red</u>	Last In Service Date:	unknown
	Phase Bank								Last in service bute.	
	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3			Bormitted Phenen	
1 -	0 - 0 - 0	0-0-0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0	Fermitted Phases	
<u>2</u> SBT	0 - 0 - 0	0 - 0 - 0	16 - 16 - 16	1 - 1 - 1	40 - 40 - 40	0 - 40 - 40	4	2		<u>12345678</u>
3 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0	Default	-2-4-6
<u>4</u> WBT	5 - 5 - 5	24 - 24 - 24	7 - 7 - 7	2.5 - 2.5 - 2.5	10 - 10 - 10	22 - 22 - 22	4	2	External Permit 0	-2-4-6
5 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0	External Permit 1	-2-4-6
6 NBT	0 - 0 - 0	0 - 0 - 0	16 - 16 - 16	1 - 1 - 1	40 - 40 - 40	0 - 40 - 40	4	2	External Permit 2	-2-4-6
7 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0		
<u>8 - </u>	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0		

TOD Schedule Report for 3394: Washington Av&19 St

Print Date: 12/3/2018

(

HPB18-0252

Print Time:

9:56 AM

						Green 7	ime					
<u>Current</u> TOD Schedule	<u>Plan</u>	<u>Cycle</u>	1 -	2 SBT	3 -	4 WBT	5 -	6 NBT	7 -	8 -	Ring Offset	<u>Offset</u>
	10	80	0	39	0	29	0	39	0	0	0	58
0600	1	70	0	29	0	29	0	29	0	0	0	11
0715	2	90	0	49	0	29	0	49	0	0	0	49
0800	11	100	0	59	0	29	0	59	0	0	0	24
0900	4	100	0	59	0	29	0	59	0	0	0	51
1330	12	110	0	69	0	29	0	69	0	0	0	105
1530	6	90	0	49	0	29	0	49	0	0	0	32
1800 21	8	80	0	39	0	29	0	39	0	0	0	27
10-141	3	80	0	39	0	29	0	39	0	0	0	43
	5	90	0	49	0	29	0	49	0	0	0	37
	7	90	0	49	0	29	0	49	0	0	0	55
	9	80	0	39	0	29	0	39	0	0	0	49
	13	80	0	39	0	29	0	39	0	0	0	61
	14	90	0	49	0	29	0	49	0	0	0	32
	15	110	0	69	0	29	0	69	0	0	0	63
	16	150	0	109	0	29	0	109	0	0	0	78
	17	70	0	29	0	29	0	29	0	0	0	13
	18	90	0	49	0	29	0	49	0	0	0	25
	19	100	0	59	0	29	0	59	0	0	0	0
	20	110	0	69	0	29	0	69	0	0	0	0
	21	110	0	69	0	29	0	69	0	0	0	0

Local TO) Schedule		
<u>Time</u>	Plan	DOW	
0000	10	Su	S
0000	10	M T W Th F	
0530	1	Su	S
0600	1	M T W Th F	
0715	2	M T W Th F	
0800	11	M T W Th F	
0900	4	M T W Th F	
1000	4	Su	S
1330	12	M T W Th F	
1530	6	M T W Th F	
1800	8	M T W Th F	
2000	10	Su	S

Current Time of Day Function	* Settings
Time Function Settings * Day of Week Time Function Settings * Day of Week B 0000 TOD OUTPUTS SuM T W ThF S 0000 TOD OUTPUTS SuM T W ThF S 0000 TOD OUTPUTS SuM T W ThF S 0000 TOD LOCAL MULTIFU SuM T W ThF S 0000 TOD LOCAL MULTIFUNCF4 SuM T W ThF S 0000 TOD LOCAL MULTIFUNCF4 SuM T W ThF S 1 0500 TOD LOCAL MULTIFU SuM T W ThF S 0500 TOD LOCAL MULTIFUNCF4 SuM T W ThF S 2 0500 TOD LOCAL MULTIFU	Blank - FREE - Phase Bank 1, Max 1 Blank - Plan - Phase Bank 1, Max 2 1 - Phase Bank 2, Max 1 2 - Phase Bank 2, Max 2 3 - Phase Bank 3, Max 1

4 - Phase Bank 3, Max 2	
5 - EXTERNAL PERMIT	1
6 - EXTERNAL PERMIT	2

- 7 X-PED OMIT
- 8 TBA

TOD Schedule Report

for 3394: Washington Av&19 St

Print Date: 12/3/2018

Print Time: 9:56 AM

No Calendar Defined/Enabled



MIAMI-DADE ATMS SIGNAL DATA SHEET

Signal Asset ID:	2809
Signal Location:	Washington Ave & 20 St
Analysis Period:	AM / PM (Circle One)
Local Time of Day	Schedule: <u>8</u> Plan
Local Time of Day	Function: Setting (Blank or Number#)

Signal Settings: (i.e. Blank, Plan #1 – Phase Bank 1, Max 1)

Cycle Length: Offset: 80. seconds 42 seconds

PHASE:	Φ1	Φ2	
	\downarrow \uparrow	$\langle - \rangle$	
WALK	0	5	
DON'TWALK	6	22	
MIN INITIAL	15	7	
VEH EXT	1	2.5	
GREEN	41	27	
YELLOW	4	4	
RED	2	2	
SPLIT	47	33	

Print Time:

TOD Schedule Report for 2809: Washington Av&20 St

Print Date:

12/3/2018												9:57 AM
<u>Asset</u>		Intersection	<u>1</u>		<u>TOD</u> <u>Schedule</u>	<u>Op Mode</u>	<u>Plan #</u>	Cycle	<u>Offset</u>	TOD Setting	<u>Active</u> PhaseBank	<u>Active</u> <u>Maximum</u>
2809	Was	shington Ava	&20 St	D	OW-2	TOD	[04] HEAVY AM PEAK	100	31	N/A	1	Max 2
				<u>Splits</u>								
<u>PH 1</u>	<u>PH 2</u>	<u>PH 3</u>	<u>PH 4</u>	<u>PH 5</u>	<u>PH 6</u>	<u>PH 7</u>	<u>PH 8</u>					
-	SBT	-	WBT	-	NBT	-	EBT					
0	61	0	27	0	61	0	27					
			-	8								
	₩				Τ							

Active Phase Bank: Phase Bank 1

<u>Phase</u>	<u>Walk</u> Phase Bank	Don't Walk	<u>Min Initial</u>	<u>Veh Ext</u>	<u>Max Limit</u>	<u>Max 2</u>	<u>Yellow</u>	<u>Red</u>	Last In Service Date:	unknown
	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3			Dermitted Disease	
1 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0	Permitted Phases	
2 SBT	0 - 0 - 0	0 - 0 - 0	15 - 15 - 15	1 - 1 - 1	35 - 35 - 35	0 - 35 - 35	4	2		<u>12345678</u>
<u>3 -</u>	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0	Default	-2-4-6-8
4 WBT	5 - 5 - 5	22 - 22 - 22	7 - 7 - 7	2.5 - 2.5 - 2.5	8 - 12 - 12	16 - 12 - 8	4	2	External Permit 0	-2-4-6-8
5 -	0 - 0 - 0	0-0-0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0	External Permit 1	-2-4-6-8
<u>6 NBT</u>	0 - 0 - 0	0 - 0 - 0	15 - 15 - 15	1 - 1 - 1	35 - 35 - 35	0 - 35 - 35	4	2	External Permit 2	-2-4-6-8
7 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0		
8 EBT	5 - 5 - 5	22 - 22 - 22	7 - 7 - 7	2.5 -2.5 - 2.5	8 - 12 - 12	16 - 12 - 8	4	2		

TOD Schedule Report for 2809: Washington Av&20 St

Print Date: 12/3/2018

Print Time:

						Green 7	ime					
<u>Current</u> TOD Schedule	<u>Plan</u>	<u>Cycle</u>	1	2 SBT	3	4 WBT	5	6 NBT	7 -	8 EBT	Ring Offset	<u>Offset</u>
	10	80	0	41	0	27	0	41	0	27	0	75
0600	1	70	0	31	0	27	0	31	0	27	0	69
0715	2	90	0	51	0	27	0	51	0	27	0	60
0800	11	100	0	61	0	27	0	61	0	27	0	35
0900	4	100	0	61	0	27	0	61	0	27	0	31
1330	12	110	0	71	0	27	0	71	0	27	0	12
1530	6	90	0	51	0	27	0	51	0	27	0	33
1800 🕅 🛺	8	80	0	41	0	27	0	41	0	27	0	(42)
10-121-	3	80	0	41	0	27	0	41	0	27	0	28
	5	90	0	51	0	27	0	51	0	27	0	37
	7	90	0	51	0	27	0	51	0	27	0	22
	9	80	0	41	0	27	0	41	0	27	0	50
	13	80	0	41	0	27	0	41	0	27	0	66
	14	90	0	51	0	27	0	51	0	27	0	33
	15	110	0	71	0	27	0	71	0	27	0	60
	16	150	0	111	0	27	0	111	0	27	0	63
	17	70	0	31	0	27	0	31	0	27	0	15
	18	90	0	51	0	27	0	51	0	27	0	11
	19	100	0	61	0	27	0	61	0	27	0	0
	20	110	0	71	0	27	0	71	0	27	0	0
	21	110	0	71	0	27	0	71	0	27	0	0

Local TO) Schedule		
Time	Plan	DOW	
0000	10	Su	S
0000	10	M T W Th F	
0530	1	Su	S
0600	1	M T W Th F	
0715	2	M T W Th F	
0800	11	M T W Th F	
0900	4	M T W Th F	
1000	4	Su	S
1330	12	M T W Th F	
1530	6	M T W Th F	
1800	. 8	M T W Th F	
2000	10	Su	S

Curren	t Time of Day Function			Local	Fime of Day Function			* Settings
<u>Time</u>	Function	<u>Settings *</u>	Day of Week	<u>Time</u>	Function	Settings *	Day of Week	Blank - FREE - Phase Bank 1, Max 1
0000	TOD OUTPUTS	4	SuM T W ThF S	0000	TOD OUTPUTS	4	SuM T W ThF S	Blank - Plan - Phase Bank 1, Max 2
0000	TOD LOCAL MULTIFU	4	SuM T W ThF S	0000	TOD LOCAL MULTIFU	NCT4	SuM T W ThF S	1 - Phase Bank 2, Max 1
0500	TOD LOCAL MULTIFU		SuM T W ThF S	0500	TOD LOCAL MULTIFUI	NCT	SuM T W ThF S	2 - Phase Bank 2, Max 2
0530	TOD OUTPUTS	2-	SuM T W ThF S	0530	TOD OUTPUTS	2-	SuM T W ThF S	3 - Phase Bank 3, Max 1
0700	TOD OUTPUTS		SuM T W ThF S	0700	TOD OUTPUTS		SuM T W ThF S	4 - Phase Bank 3, Max 2
0900	TOD OUTPUTS	2-	SuM T W ThF S	0900	TOD OUTPUTS	2-	SuM T W ThF S	5 - EXTERNAL PERMIT 1
1500	TOD OUTPUTS		SuM T W ThF S	1500	TOD OUTPUTS		SuM T W ThF S	6 - EXTERNAL PERMIT 2
1900	TOD OUTPUTS	2-	SuM T W ThF S	1900	TOD OUTPUTS	2-	SuM T W ThF S	7 - X-PED OMIT
2200	TOD OUTPUTS	4	SuM T W ThF S	2200	TOD OUTPUTS	4	SuM T W ThF S	8 - TBA

TOD Schedule Report for 2809: Washington Av&20 St

Print Date: 12/3/2018 HPB18-0252

Print Time: 9:57 AM

No Calendar Defined/Enabled



*Axle-Adjusted

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2017 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

.

SITE: 8414 - WASHINGTON AVE, 200 FT N OF 12 ST (2011 OFF SYSTEM CYCLE)

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2017 2016 2015 2014 2013 2012	20200 C 20800 C 20300 C 21000 C 18700 F 18700 C	N 9200 N 9800 N 9800 N 10000 N 9200 N 9200	S 11000 S 11000 S 10500 S 11000 S 11000 S 9500 S 9500	9.00 9.00 9.00 9.00 9.00 9.00 9.00	59.30 56.10 57.40 59.30 58.90 59.70	2.40 1.90 17.50 13.90 16.20 16.00

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN *K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES



*Axle-Adjusted

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2017 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 5170 - SR A1A/COLLINS AV, N OF 21 ST (MIAMI BEACH)

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2017	26500 C	N 13000	S 13500	9 00	55 00	
2016	26000 C	N 13500	s 12500	9.00	54 50	20.00
2015	26500 C	N 12500	S 14000	9.00	54.50	20.20
2014	27000 C	N 12500	S 14500	9.00	54.70	4.20
2013	22500 C	N 10500	S 12000	9.00	52 40	4.10
2012	25000 C	N 12000	S 13000	9.00	55 70	9.00
2011	26500 C	N 13500	S 13000	9.00	55.70	4.30
2010	25000 C	N 12500	S 12500	9.00	54 00	2.00
2009	26500 C	N 13000	\$ 13500	0.90	52 24	2.00
2008	27000 C	N 13500	\$ 13500	9.99	55 75	2.70
2007	25500 C	N 12500	S 13000	9.09	50.75	4.00
2006	25500 C	N 12500	S 13000	7 97	54.54	2.10
2005	25500 C	N 13000	S 12500	8 80	52 00	11 60
2004	30500 C	N 15000	S 15500	0.00	53.00	11.60
2003	23500 C	N 11500	S 12000	9.00	53.30	11.60
2002	31500 C	N 16000	e 15500	0.00	53.40	6.90
	01000 0	1 10000	3 1 3 3 0 0	9.00	52.30	4.00

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN *K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

2017 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 8700 MIAMI-DADE NORTH

WEEK	DATES		MOCF: 0.96
=====			
1	01/01/2017 - 01/07/2017	1.07	1.11
2	01/08/2017 - 01/14/2017	1.04	1.08
3	01/15/2017 - 01/21/2017	1.01	1.05
4	01/22/2017 - 01/28/2017	1.00	1.04
5	01/29/2017 - 02/04/2017	0.99	1.03
6	02/05/2017 - 02/11/2017	0.98	1.02
1	02/12/2017 - 02/18/2017	0.97	1.01
* 8	02/19/2017 - 02/25/2017	0.97	1.01
* 9	02/26/2017 - 03/04/2017	0.96	1.00
*10	03/05/2017 - 03/11/2017	0.95	0.99
*10	03/12/2017 - 03/18/2017	0.95	0.99
^⊥∠ +1.7	03/19/2017 = 03/25/2017	0.95	0.99
+14	03/25/2017 = 04/01/2017	0.96	1.00
*15	04/02/2017 = 04/08/2017	0.96	1.00
*16	04/15/2017 = 04/15/2017	0.97	1.01
*17	04/10/2017 = 04/22/2017	0.97	1.01
*18	04/20/2017 = 04/29/2017	0.97	1.01
*10	04/30/2017 = 05/06/2017	0.97	1.01
*20	05/14/2017 = 05/13/2017	0.97	1.01
21	05/21/2017 = 05/20/2017	0.97	1.01
22	05/28/2017 = 06/03/2017	0.98	1.02
23	05/20/2017 = 06/10/2017	0.90	1.02
24	06/11/2017 - 06/17/2017	0.99	1.03
25	06/18/2017 - 06/24/2017	1 00	1.03
26	06/25/2017 = 07/01/2017	1 00	1.04
27	07/02/2017 - 07/08/2017	1 01	1.04
28	07/09/2017 - 07/15/2017	1 01	1.05
29	07/16/2017 - 07/22/2017	1 01	1.05
30	07/23/2017 - 07/29/2017	1.01	1 05
31	07/30/2017 - 08/05/2017	1.00	1.04
32	08/06/2017 - 08/12/2017	1.00	1.04
33	08/13/2017 - 08/19/2017	1.00	1.04
34	08/20/2017 - 08/26/2017	1.04	1.08
35	08/27/2017 - 09/02/2017	1.07	1.11
36	09/03/2017 - 09/09/2017	1.11	1.16
37	09/10/2017 - 09/16/2017	1.14	1.19
38	09/17/2017 - 09/23/2017	1.12	1.17
39	09/24/2017 - 09/30/2017	1.10	1.15
40	10/01/2017 - 10/07/2017	1.08	1.13
41	10/08/2017 - 10/14/2017	1.06	1.10
42	10/15/2017 - 10/21/2017	1.04	1.08
43	10/22/2017 - 10/28/2017	1.05	1.09
44	10/29/2017 - 11/04/2017	1.06	1.10
45	11/05/2017 - 11/11/2017	1.07	1.11
46	11/12/2017 - 11/18/2017	1.07	1.11
47	11/19/2017 - 11/25/2017	1.07	1.11
48	11/26/2017 - 12/02/2017	1.07	1.11
49	12/03/2017 - 12/09/2017	1.07	1.11
50	12/10/2017 - 12/16/2017	1.07	1.11
51	12/17/2017 - 12/23/2017	1.05	1.09
52	12/24/2017 - 12/30/2017	1.03	1.07
53	12/31/2017 - 12/31/2017	1.01	1.05

* PEAK SEASON

02-MAR-2018 15:35:06

830UPD

6_8700_PKSEASON.TXT

Appendix 5: Traffic Counts (TMC's)



TABLE: A3

INTERSECTION APPROACH VOLUMES - PM PEAK (WEEKDAY)

Project Name: Park Hotel

	· · · · · · · · · · · · · · · · · · ·		1				-						
o di	1	2	3	4	5	6	7	8	9	10	11	12	13
INTERSECTION NO	INTERSECTION NAME	APPROACH	MOVEMENT	PM PEAK HOUR OF GENERATOR (WEEKDAY) COUNT	DATE OF COUNT	PHF	SF	PM PEAK HOUR OF GENERATOR SEASONALLY ADJUSTED (EXISTING) (2018)	BACKGROUND GROWTH @ 1.75% FOR PROJECT BUILD-OUT OF 2020 (2 YEARS GROWTH)	PROPOSED FUTURE TRAFFIC W/O PROJECT (2020)	SITE TRAFFIC (PROJECT NET TRIPS) (VPH)	VALET OPERATION TRIPS	PROPOSED FUTURE TRAFFIC W/ PROJECT (VPH) (2020)
			SBR	0			1.07	0	0	0	0	0	0
		SOUTHBOUND	SBT	148			1.07	158	6	164	10	Ŏ	174
			SBL	23			1.07	25	1	25	12	0	37
			TOTAL	171	18			183	6	189	22	0	211
			WBR	26	20		1.07	28	1	29	0	0	29
		WESTROUND	WBT	0	ģ		1.07	0	0	0	0	0	0
		TEOTBOOND	WBL	47	5		1.07	50	2	52	0	0	52
1	Washington Avenue		TOTAL	73	đ	946		78	3	81	0	0	81
	& 19 Street		NBR	17	ver	0.0	1.07	18	1	19	15	0	34
		NORTHBOUND	NBT	436	Ŷ		1.07	467	16	483	0	0	483
			NBL	0	, Y		1.07	0	0	0	0	0	0
			TOTAL	453	ida			485	17	502	15	0	517
			EBR	0	ц		1.07	0	0	0	0	0	0
		EASTBOUND	EBT	0			1.07	0	0	0	0	0	0
			EBL	0			1.07	0	0	0	0	0	0
			TOTAL	U				U	.0	0	0	0	0
		TOTAL		697				746	26	772	37	0	809
			SBR	0			1.07	0	0	0	0	0	0
		SOUTHBOUND	SBT	138			1.07	148	5	153	12	0	165
			SBL	35	~		1.07	37	1	39	0	0	39
			TOTAL	173	3			185	7	192	12	0	204
			WBR	14	N		1.07	15	1	16	8	0	24
		WESTBOUND	VVB1	0	8		1.07	0	0	0	0	0	0
	Washington August			24	ğ		1.07	26	1	2/	10	0	37
2	vvasningion Avenue			30	Ĕ	96	4.07	41	1	42	18	<u> </u>	60
	a zu Street			28	Š	o.	1.07		47	31	0		31
		NORTHBOUND		4430	ž		1.07	4/4		491	0	<u> </u>	491
				471	Š.		1.07	504	10	522	0	0	0
			ERD		Ē		1.07	504		<u> </u>	0		
			FBT	0	ш		1.07	0	0	0	0		<u> </u>
		EASTBOUND	FBI				1.07	0	0	0	0	<u> </u>	0
			TOTAL	l õ			1.01	0	0	0	0	0	0
		τοται		682				720	26	755	20		796
		IUIAL		002				/30	20	/ 30	30		/00

TABLE: A3

INTERSECTION APPROACH VOLUMES - PM PEAK (WEEKDAY)

Project Name: Park Hotel

÷	1	2	3	4	5	6	7	8	9	10	11	12	13
INTERSECTION NC	INTERSECTION NAME	APPROACH	MOVEMENT	PM PEAK HOUR OF GENERATOR (WEEKDAY) COUNT	DATE OF COUNT	PHF	SF	PM PEAK HOUR OF GENERATOR SEASONALLY ADJUSTED (EXISTING) (2018)	BACKGROUND GROWTH @ 1.75% FOR PROJECT BUILD-OUT OF 2020 (2 YEARS GROWTH)	PROPOSED FUTURE TRAFFIC W/O PROJECT (2020)	SITE TRAFFIC (PROJECT NET TRIPS) (VPH)	VALET OPERATION TRIPS	PROPOSED FUTURE TRAFFIC W/ PROJECT (VPH) (2020)
			SBR	35			1.07	37	1	39	0	0	39
		SOUTHBOUND	SBT	0			1.07	0	0	0	0	0	0
			SBL	37			1.07	40	1	41	0	0	41
			TOTAL	72	18			77	3	80	0	0	80
			WBR	16	20		1.07	17	1	18	6	20	44
		WESTROUND	WBT	36	ő.		1.07	39	1	40	0	0	40
		11201000110	WBL	0	Ъ.	-	1.07	0	0	0	0	0	0
3	Park Avenue &		TOTAL	52	ф.	880		56	2	58	6	20	84
Ť	19 Street		NBR	0	vei	0.0	1.07	0	0	0	0	0	0
		NORTHBOUND	NBT	0	Ŷ		1.07	0	0	0	0	0	0
			NBL	0	۲,		1.07	0	0	0	0	0	0
			TOTAL	0	ride		1.07	0	0	0	0	0	0
			EBR	0	Ē		1.07	0	0	0	0	0	0
		EASTBOUND	EBI	43			1.07	46	2	48	07	0	48
			EBL	8			1.07	9	2	9	27	0	30
				51							21		0.17
		TOTAL	000	175			4.07	18/		194	33	20	247
			SBR	4			1.07	4	0	4	U	0	4
		SOUTHBOUND	SBI	51			1.07	55		00	0	0	20
			TOTAL	24	80		1.07	20		21	0	0	21
		·		19	010		1.07	17	J 1	18	0	0	18
			WBT	38	0, 2		1.07	41	1	42	0	0	42
		WESTBOUND	WBI	4	. 30		1.07	4		4	0	0	4
	Park Avenue &		TOTAL	58	pei	5		62	2	64	0	ů	64
4	20 Street		NBR	2	em	.80	1.07	2	0	2	4	28	34
	20 00000		NBT	18	Ň	0	1.07	19	1	20	0	0	20
		NORTHBOUND	NBI	3	z		1.07	3	0	3	18	0	21
			TOTAL	23	day			25	1	25	22	28	75
			EBR	5	ці.		1.07	5	0	6	0	0	6
		FAOTDOLINE	EBT	50	-		1.07	54	2	55	Ō	0	55
		EASTBOUND	EBL	6			1.07	6	0	7	0	0	7
			TOTAL	61				65	2	68	0	0	68
		TOTAL		221				236	8	245	22	28	295

TABLE: A3

INTERSECTION APPROACH VOLUMES - PM PEAK (WEEKDAY)

Project Name: Park Hotel

Ċ	1	2	3	4	5	6	7	8	9	10	11	12	13
INTERSECTION NO	INTERSECTION NAME	APPROACH	MOVEMENT	PM PEAK HOUR OF GENERATOR (WEEKDAY) COUNT	DATE OF COUNT	PHF	SF	PM PEAK HOUR OF GENERATOR SEASONALLY ADJUSTED (EXISTING) (2018)	BACKGROUND GROWTH @ 1.75% FOR PROJECT BUILD-OUT OF 2020 (2 YEARS GROWTH)	PROPOSED FUTURE TRAFFIC W/O PROJECT (2020)	SITE TRAFFIC (PROJECT NET TRIPS) (VPH)	VALET OPERATION TRIPS	PROPOSED FUTURE TRAFFIC W/ PROJECT (VPH) (2020)
			SBR	32			1.07	34	1	35	0	20	55
		SOUTHBOUND	SBT	0			1.07	0	0	0	0	0	0
			SBL	17			1.07	18	1	19	0	0	19
			TOTAL	49	18			52	2	54	0	20	74
			WBR	28	20		1.07	30	1	31	0	0	31
		WESTBOUND	WBT	29	ő,		1.07	31	1	32	6	0	38
		WEOTBOOND	WBL	0	5		1.07	0	0	0	0	0	0
5	Liberty Avenue &		TOTAL	57	qu	20		61	2	63	6	0	69
Ũ	19 Street		NBR	0	ver	0.0	1.07	0	0	0	0	0	0
		NORTHBOUND	NBT	0	ÔZ		1.07	0	0	0	0	0	0
			NBL	0	۲. I		1.07	0	0	0	0	0	0
			TOTAL	0	ida			0	0	0	0	0	0
			EBR	0	ц		1.07	0	0	0	0	0	0
		EASTBOUND	EBT	37			1.07	40	1	41	0	0	41
			EBL	27			1.07	29	1	30	0	0	30
			TOTAL	64				68	2	71	0	0	71
		TOTAL		170				182	6	188	6	20	214
			SBR	5			1.07	5	0	6	0	0	6
		SOUTHBOUND	SBT	18			1.07	19	1	20	0	0	20
			SBL	16			1.07	17	1	18	0	0	18
			TOTAL	39	18			42	1	43	0	0	43
		•	WBR	11	8		1.07	12	0	12	0	0	12
		WESTBOUND	WBT	39	ĝ		1.07	42	1	43	0	0	43
			WBL	6	-i-		1.07	6	0	7	0	20	27
6	Liberty Avenue &		TOTAL	56	e l	356		60	2	62	0	20	82
-	20 Street		NBR	16	Vel V	0.8	1.07	17	1	18	0	0	18
		NORTHBOUND	NBT	24	2		1.07	26	1	27	0	0	27
			NBL	2	<u>></u>		1.07	2	0	2	0	0	2
	Ļ		TOTAL	42	ida			45	2	47	0	0	47
			EBR	11	ան		1.07	12	0	12	0	0	12
		EASTBOUND	EBT	50			1.07	54	2	55	4	28	87
			EBL	7			1.07	7	0	8	0	0	8
			TOTAL	68				73	3	75	4	28	107
		TOTAL		205				219	8	227	4	48	279

Notes:

1 Intersection Name

2 Intersection Approach

3 Intersection Approach Movement

4 TMC data provided by RGA, Inc.

5 Date of Count

6 Peak Hour Factor

7 Seasonal Factor

8 Seasonally Adjusted TMC = Count * SF (Existing Condition).

9 A 1.75 percent background growth was utilized with a project build-out of 2020.

10 Proposed Traffic w/o Project = Seasonally Adjusted TMC + Backgound

11 Project Net Trips

12 Valet Operation Trips

13 Total Traffic = Net Traffic w/o Project + Site Traffic (Proposed Condition with Project)



Richard Garcia & Associates, Inc.

8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 19 St_Washington Ave_PM Site Code : 00000000 Start Date : 11/30/2018 Page No : 1

								Gro	oups P	rinted-	Cars	Truck	S		_						
		WASH Sc	lINGT	ON AV	Έ		W	19 ST estbo	und			WASH No	INGT	ON AV und	Έ		Ea	19 S	T und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
10:00 PM	0	51	8	2	61	8	0	9	0	17	5	89	0	1	95	0	0	0	0	0	173
10:15 PM	0	43	3	0	46	2	0	11	0	13	4	81	0	0	85	0	0	0	4	4	148
10:30 PM	0	44	8	0	52	6	0	10	0	16	13	83	0	0	96	0	0	0	1	1	165
10:45 PM	0	43	9	0	52	5	0	9	0	14	5	95	0	0	100	0	D	0	0	0	166
Total	0	181	28	2	211	21	0	39	0	60	27	348	0	1	376	0	0	0	5	5	652
11:00 PM	0	45	5	0	50	10	0	11	1	22	5	106	0	2	113	0	0	0	1	1	186
11: 15 PM	0	34	5	2	41	8	0	12	0	20	3	108	0	0	111	0	0	0	0	0	172
11:30 PM	0	26	4	0	30	3	0	15	1	19	4	127	0	0	131	0	0	0	0	0	180
11:45 PM	0	28	2	0	30	4	0	10	0	14	7	98	0	3	108	0	0	0	0	0	152
Total	0	133	16	2	151	25	0	48	2	75	19	439	0	5	463	0	0	0	1	1	690
Grand Total	0	314	44	4	362	46	0	87	2	135	46	787	0	6	839	0	0	O	6	6	1342
Apprch %	0	86.7	12.2	1.1		34.1	0	64.4	1.5		5.5	93.8	0	0.7		0	0	0	100		1.000
Total %	0	23.4	3.3	0.3	27	3.4	0	6.5	0.1	10.1	3.4	58.6	0	0.4	62.5	0	0	0	0.4	0.4	
Cars	0	300	44	4	348	46	0	87	2	135	46	773	0	6	825	0	0	0	6	6	1314
% Cars	0	95.5	100	100	96.1	100	0	100	100	100	100	98.2	0	100	98.3	0	0	D	100	100	97.9
Trucks	0	14	0	0	14	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	28
% Trucks	0	4.5	0	D	3.9	0	0	0	0	0	0	1.8	0	0	1.7	0	σ	D	0	0	2.1







8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 19 St_Washington Ave_PM Site Code : 00000000 Start Date : 11/30/2018 Page No : 2

		WASH So	UNGTO	DN AV	Έ		w	19 ST estbo	r und			WASH No	INGT	ON AV	Έ		E	19 ST astbou	und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	Ann Total	Int. Total
Peak Hour A	nalysis	From	10:00 I	PM to	11:45 PM	A - Pea	k 1 of	1									and the second second				
Peak Hour fo	r Entire	e Inters	ection	Begins	s at 10:4	5 PM															
10:45 PM	0	43	9	Õ	52	5	0	9	0	14	5	95	0	0	100	0	σ	D	0	0	166
11:00 PM	0	45	5	D	50	10	0	11	1	22	5	106	ō	2	113	Ő	õ	ñ	1	1	186
11:15 PM	0	34	5	2	41	8	0	12	0	20	3	108	õ	ō	111	ŏ	õ	õ	ò	o	172
11:30 PM	0	26	4	0	30	3	0	15	1	19	4	127	õ	ŏ	131	0	0	Ď	ŏ	õ	180
Total Volume	0	148	23	2	173	26	0	47	2	75	17	436	D	2	455	0	Ő	Ő	1	1	704
% App. Total	0	85.5	13.3	1.2		34.7	0	62.7	2.7		3.7	95.8	õ	0.4		0	0	0	100		
PHF	.000	.822	.639	.250	.832	.650	.000	.783	.500	.852	.850	858	000	250	868	000	000	000	250	250	946



RGA

Richard Garcia & Associates, Inc.

8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 20 St_Washington Ave_PM Site Code : 00000000 Start Date : 11/30/2018 Page No : 1

								Gro	oups F	rinted-	Cars	Truck	s								
		WASH Sc	lINGT	ON AV	Έ		w	20 ST estbo	r und			WASH No	lINGT	ON AV und	Έ		Ea	20 ST astbou	Ind		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
10:00 PM	0	49	10	0	59	7	0	5	0	12	6	91	0	2	99	0	0	0	0	0	170
10:15 PM	0	40	6	0	46	3	0	5	0	8	8	75	0	1	84	0	0	0	0	0	138
10:30 PM	0	47	5	1	53	4	0	8	0	12	8	81	0	0	89	0	0	0	0	0	154
10:45 PM	0	42	10	0	52	2	0	4	0	6	6	93	0	0	99	0	0	0	0	0	157
Total	0	178	31	1	210	16	0	22	0	38	28	340	0	3	371	0	0	0	0	0	619
11:00 PM	0	44	6	0	50	3	0	4	0	7	7	109	0	1	117	0	0	0	0	0	174
11:15 PM	0	29	11	0	40	4	0	7	0	11	7	120	0	0	127	0	0	0	0	0	178
11:30 PM	0	23	8	1	32	5	0	9	0	14	8	121	0	2	131	0	0	0	0	0	177
11:45 PM	0	25	5	0	30	6	0	4	0	10	10	92	0	2	104	0	0	0	0	0	144
Total	0	121	30	1	152	18	0	24	0	42	32	442	0	5	479	0	0	0	0	D	673
Grand Total	0	299	61	2	362	34	0	46	0	80	60	782	0	8	850	0	٥	0	0	D	1292
Apprch %	0	82.6	16.9	0.6		42.5	0	57.5	0		7.1	92	0	0.9		0	0	0	0		
Total %	0	23.1	4.7	0.2	28	2.6	0	3.6	0	6.2	4.6	60.5	0	0.6	65.8	0	0	0	0	0	
Cars	0	285	53	2	340	33	0	46	0	79	58	770	0	8	836	0	0	0	0	0	1255
% Cars	0	95.3	86.9	100	93.9	97.1	0	100	0	98.8	96.7	98.5	0	100	98.4	0	0	0	0	0	97.1
Trucks	0	14	8	0	22	1	0	0	0	1	2	12	0	0	14	0	0	0	0	0	37
% Trucks	0	4.7	13.1	0	6.1	2.9	0	0	0	1.2	3.3	1.5	0	0	1.6	0	0	0	0	0	2.9







8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 20 St_Washington Ave_PM Site Code : 0000000 Start Date : 11/30/2018 Page No : 2

		WASH So	uthbo	ON AV	Έ		w	20 ST estbo	r und			WASH No	INGT	ON AV und	Æ		Ea	20 ST astbou	und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Totai	Int. Total
Peak Hour A	nalysis	From	10:00	PM to 1	11:45 PM	I - Pea	k 1 of	1													
Peak Hour fo	r Entire	e Inters	ection	Begins	s at 10:4	5 PM															
10:45 PM	0	42	10	Õ	52	2	0	4	0	6	6	93	0	0	99	0	0	0	0	0	157
11:00 PM	0	44	6	0	50	3	0	4	0	7	7	109	0	1	117	0	0	0	0	0	174
11:15 PM	0	29	11	0	40	4	0	7	0	11	7	120	0	0	127	0	0	0	0	0	178
11:30 PM	0	23	8	1	32	5	0	9	0	14	8	121	0	2	131	0	0	0	0	0	177
Total Volume	0	138	35	1	174	14	0	24	0	38	28	443	0	3	474	0	0	0	0	0	686
% App. Total	0	79.3	20.1	0.6		36.8	0	63.2	0		5.9	93.5	0	0.6		0	0	0	0		
PHF	.000	.784	.795	.250	.837	.700	.000	.667	.000	.679	.875	.915	.000	.375	.905	.000	.000	.000	.000	.000	.963







8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 19 St_Park Ave_PM Site Code : 00000000 Start Date : 11/30/2018 Page No : 1

								Gro	oups P	rinted-	Cars -	Truck	S				9				
		P Sc	ARK A	VE			W	19 ST estboi	und			P/ No	ARK A	VE und			E	19 ST astbol	r Ind		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
10:00 PM	7	0	6	0	13	4	10	0	2	16	0	0	0	0	0	0	11	2	0	13	42
10:15 PM	5	0	7	0	12	2	8	0	0	10	0	0	0	0	0	0	6	1	0	7	29
10:30 PM	9	0	6	2	17	3	7	0	0	10	0	0	0	0	0	0	18	3	0	21	48
10:45 PM	9	0	11	1	21	2	5	0	0	7	0	0	0	0	0	0	13	1	õ	14	42
Total	30	0	30	3	63	11	30	0	2	43	0	0	0	0	0	0	48	7	0	55	161
11:00 PM	8	0	11	0	19	9	13	0	0	22	0	0	0	1	1	0	6	2	2	10	52
11:15 PM	9	0	9	0	18	2	11	0	0	13	0	0	0	2	2	0	6	2	0	8	41
11:30 PM	7	0	3	0	10	3	11	0	2	16	0	0	D	1	1	0	7	1	Ō	8	35
11:45 PM	7	0	4	2	13	2	7	0	0	9	0	0	0	0	0	0	6	3	õ	9	31
Total	31	0	27	2	60	16	42	0	2	60	0	0	0	4	4	0	25	8	2	35	159
Grand Total	61	0	57	5	123	27	72	0	4	103	0	0	0	4	4	0	73	15	2	90	320
Apprch %	49.6	0	46.3	4.1		26.2	69.9	0	3.9		0	0	0	100		0	81.1	16.7	2.2		1000
Total %	19.1	0	17.8	1.6	38.4	8.4	22.5	0	1.2	32.2	0	0	0	1.2	1.2	0	22.8	4.7	0.6	28.1	
Cars	61	0	56	5	122	26	72	0	4	102	0	0	0	4	4	0	73	15	2	90	318
% Cars	100	0	98.2	100	99.2	96.3	100	0	100	99	D	0	0	100	100	0	100	100	100	100	99.4
Trucks	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
% Trucks	0	0	1.8	0	0.8	3.7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.6







8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 19 St_Park Ave_PM Site Code : 0000000 Start Date : 11/30/2018 Page No : 2

Start Time	PARK AVE Southbound					19 ST Westbound					PARK AVE Northbound					19 ST Eastbound					
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	Aco, Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	Ann Total	Int. Total
Peak Hour A	nalysis	From	10:00	PM to 1	1:45 PM	1 - Pea	k 1 of	1							- ppr - taken					1.041	Inter Poten
Peak Hour fo	r Entire	e Inters	ection	Begins	at 10:3	0 PM															
10:30 PM	9	0	6	2	17	3	7	0	0	10	0	0	0	0	0	0	18	3	0	21	48
10:45 PM	9	0	11	1	21	2	5	o	0	7	0	Ō	Ō	Ō	0	ŏ	13	1	ŏ	14	42
11:00 PM	8	0	11	0	19	9	13	Ō	Ō	22	Ő	Ō	õ	1	1	ŏ	6	2	ž	10	52
11:15 PM	9	0	9	0	18	2	11	0	0	13	Ő	õ	õ	2	2	ŏ	6	2	ō	8	41
Total Volume	35	0	37	3	75	16	36	0	0	52	0	0	0	3	3	0	43	8	2	53	183
% App. Total	46.7	D	49.3	4		30.8	69.2	D	0	8,29,05	0	0	0	100		õ	81.1	15.1	3.8		
PHF	.972	.000	.841	.375	.893	.444	.692	.000	.000	.591	.000	.000	.000	.375	.375	.000	597	667	250	631	880


RGA

Richard Garcia & Associates, Inc.

8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 20 St_Park Ave_PM Site Code : 00000000 Start Date : 11/30/2018 Page No : 1

								C -			0	Turnel					-9				
		P	ARK A	VE			W	20 ST estbo	oups P F und	rinted-	Cars -	P. No	ARK A orthbo	VE und			E	20 S astbo	Tund]
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App Total	Int. Total
10:00 PM	0	11	5	0	16	4	12	0	4	20	1	2	3	0	6	4	11	1	1	17	59
10:15 PM	1	9	6	3	19	2	7	0	0	9	0	3	0	1	4	2	9	3	0	14	46
10:30 PM	1	9	5	4	19	3	11	0	2	16	3	5	0	1	9	0	11	1	0	12	56
10:45 PM	1	18	4	0	23	2	5	0	D	7	0	2	0	0	2	3	11	2	0	16	48
Total	3	47	20	7	77	11	35	0	6	52	4	12	3	2	21	9	42	7	1	59	209
11:00 PM	2	16	4	2	24	5	5	1	0	11	0	9	1	0	10	1	11	1	1	14	59
11: 1 5 PM	1	18	6	1	26	5	10	2	D	17	1	З	0	. 0	4	0	15	3	3	21	68
11:30 PM	1	7	7	2	17	5	13	1	2	21	0	3	2	4	9	2	14	0	3	19	66
11:45 PM	0	10	7	4	21	1	10	0	0	11	1	3	0	0	4	2	10	2	1	15	51
Total	4	51	24	9	88	16	38	4	2	60	2	18	3	4	27	5	50	6	8	69	244
Grand Total	7	98	44	16	165	27	73	4	8	112	6	30	6	6	48	14	92	13	9	128	453
Apprch %	4.2	59.4	26.7	9.7		24.1	65.2	3.6	7.1		12.5	62.5	12.5	12.5		10.9	71.9	10.2	7		
Total %	1.5	21.6	9.7	3.5	36.4	6	16.1	0.9	1.8	24.7	1.3	6.6	1.3	1.3	10.6	3.1	20.3	2.9	2	28.3	
Cars	7	97	44	16	164	27	72	4	8	111	6	30	6	6	48	14	82	13	9	118	441
% Cars	100	99	100	100	99.4	100	98.6	100	100	99.1	100	100	100	100	100	100	89.1	100	100	92.2	97.4
Trucks	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	10	0	0	10	12
% Trucks	0	1	0	0	0.6	0	1.4	0	0	0.9	0	0	0	0	0	0	10.9	0	0	7.8	2.6





RGA

Richard Garcia & Associates, Inc.

8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

File Name	: 20 St_Park Ave_PM
Site Code	: 00000000
Start Date	: 11/30/2018
Page No	: 2

		P	ARK A	VE.				20 ST	Г			P	ARK A	VE			1 million	20 ST	Г		
		50	uthbo	und			W	estbo	und			No	orthbo	und			Ea	astbou	und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	Ann Total	Int Total
Peak Hour Ar	nalysis	From	10:00	PM to 1	11:45 PM	A - Pea	k 1 of	1							410000					The Part of State	
Peak Hour fo	r Entire	e Inters	ection	Begins	s at 11:0	0 PM															
11:00 PM	2	16	4	2	24	5	5	1	0	11	0	9	1	0	10	1	11	1	1	14	59
11:15 PM	1	18	6	1	26	5	10	2	0	17	1	3	0	0	4	Ó	15	3	3	21	68
11:30 PM	1	7	7	2	17	5	13	1	2	21	0	3	2	4	9	2	14	ō	3	19	66
11:45 PM	0	10	7	4	21	1	10	0	0	11	1	3	0	0	4	2	10	2	1	15	51
Total Volume	4	51	24	9	88	16	38	4	2	60	2	18	3	4	27	5	50	6	8	69	244
% App. Total	4.5	58	27.3	10.2		26.7	63.3	6.7	3.3		7.4	66.7	11.1	14.8		7.2	72.5	8.7	11.6		
PHF	.500	.708	.857	.563	.846	.800	.731	.500	.250	.714	.500	.500	.375	.250	.675	.625	.833	.500	667	.821	897





Richard Garcia & Associates, Inc. 8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

File Name : 19 St_Liberty Ave_PM Site Code : 00000000 Start Date : 11/30/2018 Page No : 1

	1		1				1						1				-	-		٦.
Trucks	% Cars	Cars	Total %	Apprch %	Grand Total	i otai	11:45 PM	11:30 PM	11:15 PM	11:00 PM		Total	10:45 PM	10:30 PM	10:15 PM	10:00 PM	Start Time			
0	100	50	15.1	58.1	50	32	30	10	7	12		18	N	9	4	ω	Right			
0	0	0	0	0	0	c	0	0	0	0		0	0	0	0	0	Thru	So	LIBI	
0	100	33	9.9	38.4	33	1	4	. ω	ດ	4		16	ω	сл	4	4	Left	uthboi	ERTY	
0	100	ω	0.9	3.5	ω	÷	.0	0	0	-		N	N	0	0	0	Peds	und	AVE	
0	100	86	25.9		86	50	7	13	13	17		36	7	14	8	7	App. Total			
0	100	39	11.7	47	39	Ň	7	11	00	N		11	4	N	-	4	Right			
0	100	42	12.7	50.6	42	22	6	7	9	7		13	0	ω	4	6	Thru	×		
0	0	0	0	0	0	c	0	0	0	0		0	0	0	0	0	Left	estbou	19 ST	Gro
0	100	N	0.6	2.4	N	С	0	0	0	a		N	0	-	0	<u> </u>	Peds	bur		pups P
0	100	83	25		83	5/	13	18	17	9		26	4	6	G	11	App. Total			rinted-
0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	Right			Cars -
0	0	0	0	0	0	C	0	0	0	0		0	0	0	0	0	Thru	No	LIB	Truck
0	0	0	0	0	D	C	0	0	0	0		0	0	0	0	0	Left	orthbo	ERTY	S
0	100	9	2.7	100	9	5	0	N	-	N		4	0	0	4	0	Peds	und	AVE	
0	100	9	2.7		w	5	0	N		N		4	0	0	4	0	App. Total			
0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	Right			
0	100	68	26.8	57.8	89	37	G	a	13	10		52	15	10	13	14	Thru	т		
0	100	55	16.6	35.7	55	27	თ	9	4	9		28	8	сл	თ	9	Left	astboi	19 S	
0	100	10	ယ	6,5	10	9	4	0	ယ	2		د	0	-	0	0	Peds	pur	-	
0	100	154	46.4		154	73	18	14	20	21		8	23	16	19	23	App. Total			
0	100	332			332	185	38	47	51	49		147	34	36	36	41	Int. Total			
	Trucks 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% Cars 100 0 100 <td>Cars 50 0 33 36 39 42 0 2 83 0 0 9 9 0 89 55 10 154 332 % Cars 100 0 100 100 100 100 100 0 0 0 100</td> <td>Total % 15.1 0 9.9 0.9 25.9 11.7 12.7 0 0.6 25 0 0 0 2.7 0 26.8 16.6 3 46.4 Cars 50 0 33 3 86 39 42 0 2 83 0 0 9 9 0 89 55 10 154 332 % Cars 100 0 100 <t< td=""><td>Approh % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 57.8 35.7 6.5 Total % 15.1 0 9.9 0.9 25.9 11.7 12.7 0 0.6 25 0 0 0 2.7 0 26.8 16.6 3 46.4 Cars 50 0 33 3 86 39 42 0 2 83 0 0 2.7 2.7 0 26.8 16.6 3 46.4 % Cars 100</td><td>Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 9 9 0 89 55 10 154 332 Apprich % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 0 57.8 35.7 6.5 Total % 15.1 0 9.9 0.9 25.9 11.7 12.7 0 0.6 25 0 0 0 2.7 0 26.8 16.6 3 46.4 332 Cars 50 0 30 100 <td< td=""><td>Initial 32 0 17 1 50 28 29 0 57 0 1 50 1 71 1 50 28 29 0 157 0 1 1 50 27 9 73 185 Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 0 9 9 0 89 55 10 154 332 Approh 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 57.8 35.7 6.5 Total 15.1 0 3.2 3.4 3.2 0 0 0 0 2.7 2.7 0 26.8 16.6 3 46.4 Cars 50 0 100 100 100 100 100 100 100 100 100 <th< td=""><td>T1:45 PM 3 0 4 0 7 7 6 0 0 13 0 0 0 9 5 4 18 38 Total 32 0 17 1 50 28 29 0 0 57 0 0 0 0 0 0 37 27 9 73 185 Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 0 9 9 0 89 55 10 154 332 Appreh % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 105 15.4 332 Total % 15.1 0 39.4 0.5 11.7 12.7 0 0.6 25 0 0 2.7 2.7 0 26.8 16.6 3 46.4 332 Cars 50 0 100 100 100 100</td><td>11:30 PM 10 0 3 0 13 11 7 0 0 18 0 0 2 0 5 9 0 14 47 11:45 PM 3 0 4 0 7 7 6 0 0 13 0 13 10 10 10 11 7 0 0 13 0 0 0 0 0 13 13 0 0 0 0 13 13 0 0 0 13 13 14 14 13 13 13 0 0<!--</td--><td>11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 0 13 0 0 0 2 2 0 5 9 0 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 32 14 43 20 14 43 32 14 43 32 14 43 32 14 43 20 14 43 32 14 43 43 14 43 20 14 14</td><td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 11 9 11 7 0 0 11 1 11 7 0 0 11 1</td><td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 4 3 20 13 4 3 20 51 11:15 PM 3 0 13 11 7 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 0 0 17 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 0 3 8 1 17 1 17 1 18 0 0 0 0 1 14 31 14 32 185 10 15 10 15</td><td>Total 18 0 16 2 36 11 13 0 2 26 0 0 4 4 0 52 28 1 81 14 13 0 2 26 0 0 4 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 3 0 13 11 7 0 0 13 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 1 1 1 1 7 0 13 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1</td><td>10:45 PM 2 0 3 2 7 4 0 0 4 0 0 0 0 15 8 0 23 34 Total 18 0 16 2 36 11 13 0 2 26 0 0 0 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 0 17 0 0 17 0 0 13 4 3 20 13 0 0 0 13 4 3 20 14 3 20 14 47 11:45 PM 3 0 1 3 8 29 0 13 0 0 0<</td><td>10:30 PM 9 0 5 0 14 2 3 0 1 6 0 0 0 0 10 5 1 16 3 2 7 14 0 0 0 0 0 0 0 0 10 5 1 16 36 11:00 PM 12 0 4 1 17 2 7 0 2 26 0 0 0 10 52 28 1 81 147 11:15 PM 7 0 6 0 13 8 9 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 60 0 13 0 1 1 0 13 20 13 20 13 20 13 20 13 20 14 32 20 14 3</td><td>10:15 PM 4 0 4 0 4 0 1 4 0 5 0 0 4 0 13 6 0 13 6 0 13 6 0 13 6 13 6 13 6 13 6 13 6 13 6 14 33 34 10:130 PM 2 0 3 2 7 1 13 0 2 26 0 0 0 14 0 15 8 0 23 34 11:150 PM 7 0 6 0 13 18 9 0 0 17 1 0 13 4 3 20 13 4 3 20 13 4 3 20 51 11 13 4 3 20 51 14 3 20 51 14 3 20 51 14 32<!--</td--><td>10:00 PM 3 0 4 0 7 4 6 0 1 11 0 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 11 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 6 0 0 0 0 14 9 0 5 1 16 36 10:45 PM 1 1 2 3 1 1 0 0 0 1 4 0 1 1 10 0 0 1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 0 1 1 1 1 1 1 1</td><td>Start Imme Right Thru Left Peds Ausstrad Right Thru Left Peds Right Thru Left Peds Right Thru Left Peds Rig</td><td>Southbound Westbound Right Thru Left Peds Aver-real Right Thru Left Peds Aver-real</td><td>Sart Time Right Thru Left Peds Average Right Thru Left</td></td></td></th<></td></td<></td></t<></td>	Cars 50 0 33 36 39 42 0 2 83 0 0 9 9 0 89 55 10 154 332 % Cars 100 0 100 100 100 100 100 0 0 0 100	Total % 15.1 0 9.9 0.9 25.9 11.7 12.7 0 0.6 25 0 0 0 2.7 0 26.8 16.6 3 46.4 Cars 50 0 33 3 86 39 42 0 2 83 0 0 9 9 0 89 55 10 154 332 % Cars 100 0 100 <t< td=""><td>Approh % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 57.8 35.7 6.5 Total % 15.1 0 9.9 0.9 25.9 11.7 12.7 0 0.6 25 0 0 0 2.7 0 26.8 16.6 3 46.4 Cars 50 0 33 3 86 39 42 0 2 83 0 0 2.7 2.7 0 26.8 16.6 3 46.4 % Cars 100</td><td>Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 9 9 0 89 55 10 154 332 Apprich % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 0 57.8 35.7 6.5 Total % 15.1 0 9.9 0.9 25.9 11.7 12.7 0 0.6 25 0 0 0 2.7 0 26.8 16.6 3 46.4 332 Cars 50 0 30 100 <td< td=""><td>Initial 32 0 17 1 50 28 29 0 57 0 1 50 1 71 1 50 28 29 0 157 0 1 1 50 27 9 73 185 Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 0 9 9 0 89 55 10 154 332 Approh 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 57.8 35.7 6.5 Total 15.1 0 3.2 3.4 3.2 0 0 0 0 2.7 2.7 0 26.8 16.6 3 46.4 Cars 50 0 100 100 100 100 100 100 100 100 100 <th< td=""><td>T1:45 PM 3 0 4 0 7 7 6 0 0 13 0 0 0 9 5 4 18 38 Total 32 0 17 1 50 28 29 0 0 57 0 0 0 0 0 0 37 27 9 73 185 Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 0 9 9 0 89 55 10 154 332 Appreh % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 105 15.4 332 Total % 15.1 0 39.4 0.5 11.7 12.7 0 0.6 25 0 0 2.7 2.7 0 26.8 16.6 3 46.4 332 Cars 50 0 100 100 100 100</td><td>11:30 PM 10 0 3 0 13 11 7 0 0 18 0 0 2 0 5 9 0 14 47 11:45 PM 3 0 4 0 7 7 6 0 0 13 0 13 10 10 10 11 7 0 0 13 0 0 0 0 0 13 13 0 0 0 0 13 13 0 0 0 13 13 14 14 13 13 13 0 0<!--</td--><td>11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 0 13 0 0 0 2 2 0 5 9 0 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 32 14 43 20 14 43 32 14 43 32 14 43 32 14 43 20 14 43 32 14 43 43 14 43 20 14 14</td><td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 11 9 11 7 0 0 11 1 11 7 0 0 11 1</td><td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 4 3 20 13 4 3 20 51 11:15 PM 3 0 13 11 7 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 0 0 17 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 0 3 8 1 17 1 17 1 18 0 0 0 0 1 14 31 14 32 185 10 15 10 15</td><td>Total 18 0 16 2 36 11 13 0 2 26 0 0 4 4 0 52 28 1 81 14 13 0 2 26 0 0 4 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 3 0 13 11 7 0 0 13 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 1 1 1 1 7 0 13 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1</td><td>10:45 PM 2 0 3 2 7 4 0 0 4 0 0 0 0 15 8 0 23 34 Total 18 0 16 2 36 11 13 0 2 26 0 0 0 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 0 17 0 0 17 0 0 13 4 3 20 13 0 0 0 13 4 3 20 14 3 20 14 47 11:45 PM 3 0 1 3 8 29 0 13 0 0 0<</td><td>10:30 PM 9 0 5 0 14 2 3 0 1 6 0 0 0 0 10 5 1 16 3 2 7 14 0 0 0 0 0 0 0 0 10 5 1 16 36 11:00 PM 12 0 4 1 17 2 7 0 2 26 0 0 0 10 52 28 1 81 147 11:15 PM 7 0 6 0 13 8 9 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 60 0 13 0 1 1 0 13 20 13 20 13 20 13 20 13 20 14 32 20 14 3</td><td>10:15 PM 4 0 4 0 4 0 1 4 0 5 0 0 4 0 13 6 0 13 6 0 13 6 0 13 6 13 6 13 6 13 6 13 6 13 6 14 33 34 10:130 PM 2 0 3 2 7 1 13 0 2 26 0 0 0 14 0 15 8 0 23 34 11:150 PM 7 0 6 0 13 18 9 0 0 17 1 0 13 4 3 20 13 4 3 20 13 4 3 20 51 11 13 4 3 20 51 14 3 20 51 14 3 20 51 14 32<!--</td--><td>10:00 PM 3 0 4 0 7 4 6 0 1 11 0 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 11 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 6 0 0 0 0 14 9 0 5 1 16 36 10:45 PM 1 1 2 3 1 1 0 0 0 1 4 0 1 1 10 0 0 1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 0 1 1 1 1 1 1 1</td><td>Start Imme Right Thru Left Peds Ausstrad Right Thru Left Peds Right Thru Left Peds Right Thru Left Peds Rig</td><td>Southbound Westbound Right Thru Left Peds Aver-real Right Thru Left Peds Aver-real</td><td>Sart Time Right Thru Left Peds Average Right Thru Left</td></td></td></th<></td></td<></td></t<>	Approh % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 57.8 35.7 6.5 Total % 15.1 0 9.9 0.9 25.9 11.7 12.7 0 0.6 25 0 0 0 2.7 0 26.8 16.6 3 46.4 Cars 50 0 33 3 86 39 42 0 2 83 0 0 2.7 2.7 0 26.8 16.6 3 46.4 % Cars 100	Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 9 9 0 89 55 10 154 332 Apprich % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 0 57.8 35.7 6.5 Total % 15.1 0 9.9 0.9 25.9 11.7 12.7 0 0.6 25 0 0 0 2.7 0 26.8 16.6 3 46.4 332 Cars 50 0 30 100 <td< td=""><td>Initial 32 0 17 1 50 28 29 0 57 0 1 50 1 71 1 50 28 29 0 157 0 1 1 50 27 9 73 185 Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 0 9 9 0 89 55 10 154 332 Approh 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 57.8 35.7 6.5 Total 15.1 0 3.2 3.4 3.2 0 0 0 0 2.7 2.7 0 26.8 16.6 3 46.4 Cars 50 0 100 100 100 100 100 100 100 100 100 <th< td=""><td>T1:45 PM 3 0 4 0 7 7 6 0 0 13 0 0 0 9 5 4 18 38 Total 32 0 17 1 50 28 29 0 0 57 0 0 0 0 0 0 37 27 9 73 185 Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 0 9 9 0 89 55 10 154 332 Appreh % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 105 15.4 332 Total % 15.1 0 39.4 0.5 11.7 12.7 0 0.6 25 0 0 2.7 2.7 0 26.8 16.6 3 46.4 332 Cars 50 0 100 100 100 100</td><td>11:30 PM 10 0 3 0 13 11 7 0 0 18 0 0 2 0 5 9 0 14 47 11:45 PM 3 0 4 0 7 7 6 0 0 13 0 13 10 10 10 11 7 0 0 13 0 0 0 0 0 13 13 0 0 0 0 13 13 0 0 0 13 13 14 14 13 13 13 0 0<!--</td--><td>11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 0 13 0 0 0 2 2 0 5 9 0 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 32 14 43 20 14 43 32 14 43 32 14 43 32 14 43 20 14 43 32 14 43 43 14 43 20 14 14</td><td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 11 9 11 7 0 0 11 1 11 7 0 0 11 1</td><td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 4 3 20 13 4 3 20 51 11:15 PM 3 0 13 11 7 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 0 0 17 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 0 3 8 1 17 1 17 1 18 0 0 0 0 1 14 31 14 32 185 10 15 10 15</td><td>Total 18 0 16 2 36 11 13 0 2 26 0 0 4 4 0 52 28 1 81 14 13 0 2 26 0 0 4 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 3 0 13 11 7 0 0 13 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 1 1 1 1 7 0 13 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1</td><td>10:45 PM 2 0 3 2 7 4 0 0 4 0 0 0 0 15 8 0 23 34 Total 18 0 16 2 36 11 13 0 2 26 0 0 0 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 0 17 0 0 17 0 0 13 4 3 20 13 0 0 0 13 4 3 20 14 3 20 14 47 11:45 PM 3 0 1 3 8 29 0 13 0 0 0<</td><td>10:30 PM 9 0 5 0 14 2 3 0 1 6 0 0 0 0 10 5 1 16 3 2 7 14 0 0 0 0 0 0 0 0 10 5 1 16 36 11:00 PM 12 0 4 1 17 2 7 0 2 26 0 0 0 10 52 28 1 81 147 11:15 PM 7 0 6 0 13 8 9 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 60 0 13 0 1 1 0 13 20 13 20 13 20 13 20 13 20 14 32 20 14 3</td><td>10:15 PM 4 0 4 0 4 0 1 4 0 5 0 0 4 0 13 6 0 13 6 0 13 6 0 13 6 13 6 13 6 13 6 13 6 13 6 14 33 34 10:130 PM 2 0 3 2 7 1 13 0 2 26 0 0 0 14 0 15 8 0 23 34 11:150 PM 7 0 6 0 13 18 9 0 0 17 1 0 13 4 3 20 13 4 3 20 13 4 3 20 51 11 13 4 3 20 51 14 3 20 51 14 3 20 51 14 32<!--</td--><td>10:00 PM 3 0 4 0 7 4 6 0 1 11 0 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 11 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 6 0 0 0 0 14 9 0 5 1 16 36 10:45 PM 1 1 2 3 1 1 0 0 0 1 4 0 1 1 10 0 0 1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 0 1 1 1 1 1 1 1</td><td>Start Imme Right Thru Left Peds Ausstrad Right Thru Left Peds Right Thru Left Peds Right Thru Left Peds Rig</td><td>Southbound Westbound Right Thru Left Peds Aver-real Right Thru Left Peds Aver-real</td><td>Sart Time Right Thru Left Peds Average Right Thru Left</td></td></td></th<></td></td<>	Initial 32 0 17 1 50 28 29 0 57 0 1 50 1 71 1 50 28 29 0 157 0 1 1 50 27 9 73 185 Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 0 9 9 0 89 55 10 154 332 Approh 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 57.8 35.7 6.5 Total 15.1 0 3.2 3.4 3.2 0 0 0 0 2.7 2.7 0 26.8 16.6 3 46.4 Cars 50 0 100 100 100 100 100 100 100 100 100 <th< td=""><td>T1:45 PM 3 0 4 0 7 7 6 0 0 13 0 0 0 9 5 4 18 38 Total 32 0 17 1 50 28 29 0 0 57 0 0 0 0 0 0 37 27 9 73 185 Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 0 9 9 0 89 55 10 154 332 Appreh % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 105 15.4 332 Total % 15.1 0 39.4 0.5 11.7 12.7 0 0.6 25 0 0 2.7 2.7 0 26.8 16.6 3 46.4 332 Cars 50 0 100 100 100 100</td><td>11:30 PM 10 0 3 0 13 11 7 0 0 18 0 0 2 0 5 9 0 14 47 11:45 PM 3 0 4 0 7 7 6 0 0 13 0 13 10 10 10 11 7 0 0 13 0 0 0 0 0 13 13 0 0 0 0 13 13 0 0 0 13 13 14 14 13 13 13 0 0<!--</td--><td>11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 0 13 0 0 0 2 2 0 5 9 0 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 32 14 43 20 14 43 32 14 43 32 14 43 32 14 43 20 14 43 32 14 43 43 14 43 20 14 14</td><td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 11 9 11 7 0 0 11 1 11 7 0 0 11 1</td><td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 4 3 20 13 4 3 20 51 11:15 PM 3 0 13 11 7 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 0 0 17 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 0 3 8 1 17 1 17 1 18 0 0 0 0 1 14 31 14 32 185 10 15 10 15</td><td>Total 18 0 16 2 36 11 13 0 2 26 0 0 4 4 0 52 28 1 81 14 13 0 2 26 0 0 4 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 3 0 13 11 7 0 0 13 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 1 1 1 1 7 0 13 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1</td><td>10:45 PM 2 0 3 2 7 4 0 0 4 0 0 0 0 15 8 0 23 34 Total 18 0 16 2 36 11 13 0 2 26 0 0 0 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 0 17 0 0 17 0 0 13 4 3 20 13 0 0 0 13 4 3 20 14 3 20 14 47 11:45 PM 3 0 1 3 8 29 0 13 0 0 0<</td><td>10:30 PM 9 0 5 0 14 2 3 0 1 6 0 0 0 0 10 5 1 16 3 2 7 14 0 0 0 0 0 0 0 0 10 5 1 16 36 11:00 PM 12 0 4 1 17 2 7 0 2 26 0 0 0 10 52 28 1 81 147 11:15 PM 7 0 6 0 13 8 9 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 60 0 13 0 1 1 0 13 20 13 20 13 20 13 20 13 20 14 32 20 14 3</td><td>10:15 PM 4 0 4 0 4 0 1 4 0 5 0 0 4 0 13 6 0 13 6 0 13 6 0 13 6 13 6 13 6 13 6 13 6 13 6 14 33 34 10:130 PM 2 0 3 2 7 1 13 0 2 26 0 0 0 14 0 15 8 0 23 34 11:150 PM 7 0 6 0 13 18 9 0 0 17 1 0 13 4 3 20 13 4 3 20 13 4 3 20 51 11 13 4 3 20 51 14 3 20 51 14 3 20 51 14 32<!--</td--><td>10:00 PM 3 0 4 0 7 4 6 0 1 11 0 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 11 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 6 0 0 0 0 14 9 0 5 1 16 36 10:45 PM 1 1 2 3 1 1 0 0 0 1 4 0 1 1 10 0 0 1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 0 1 1 1 1 1 1 1</td><td>Start Imme Right Thru Left Peds Ausstrad Right Thru Left Peds Right Thru Left Peds Right Thru Left Peds Rig</td><td>Southbound Westbound Right Thru Left Peds Aver-real Right Thru Left Peds Aver-real</td><td>Sart Time Right Thru Left Peds Average Right Thru Left</td></td></td></th<>	T1:45 PM 3 0 4 0 7 7 6 0 0 13 0 0 0 9 5 4 18 38 Total 32 0 17 1 50 28 29 0 0 57 0 0 0 0 0 0 37 27 9 73 185 Grand Total 50 0 33 3 86 39 42 0 2 83 0 0 0 9 9 0 89 55 10 154 332 Appreh % 58.1 0 38.4 3.5 47 50.6 0 2.4 0 0 0 100 105 15.4 332 Total % 15.1 0 39.4 0.5 11.7 12.7 0 0.6 25 0 0 2.7 2.7 0 26.8 16.6 3 46.4 332 Cars 50 0 100 100 100 100	11:30 PM 10 0 3 0 13 11 7 0 0 18 0 0 2 0 5 9 0 14 47 11:45 PM 3 0 4 0 7 7 6 0 0 13 0 13 10 10 10 11 7 0 0 13 0 0 0 0 0 13 13 0 0 0 0 13 13 0 0 0 13 13 14 14 13 13 13 0 0 </td <td>11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 0 13 0 0 0 2 2 0 5 9 0 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 32 14 43 20 14 43 32 14 43 32 14 43 32 14 43 20 14 43 32 14 43 43 14 43 20 14 14</td> <td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 11 9 11 7 0 0 11 1 11 7 0 0 11 1</td> <td>11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 4 3 20 13 4 3 20 51 11:15 PM 3 0 13 11 7 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 0 0 17 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 0 3 8 1 17 1 17 1 18 0 0 0 0 1 14 31 14 32 185 10 15 10 15</td> <td>Total 18 0 16 2 36 11 13 0 2 26 0 0 4 4 0 52 28 1 81 14 13 0 2 26 0 0 4 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 3 0 13 11 7 0 0 13 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 1 1 1 1 7 0 13 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1</td> <td>10:45 PM 2 0 3 2 7 4 0 0 4 0 0 0 0 15 8 0 23 34 Total 18 0 16 2 36 11 13 0 2 26 0 0 0 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 0 17 0 0 17 0 0 13 4 3 20 13 0 0 0 13 4 3 20 14 3 20 14 47 11:45 PM 3 0 1 3 8 29 0 13 0 0 0<</td> <td>10:30 PM 9 0 5 0 14 2 3 0 1 6 0 0 0 0 10 5 1 16 3 2 7 14 0 0 0 0 0 0 0 0 10 5 1 16 36 11:00 PM 12 0 4 1 17 2 7 0 2 26 0 0 0 10 52 28 1 81 147 11:15 PM 7 0 6 0 13 8 9 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 60 0 13 0 1 1 0 13 20 13 20 13 20 13 20 13 20 14 32 20 14 3</td> <td>10:15 PM 4 0 4 0 4 0 1 4 0 5 0 0 4 0 13 6 0 13 6 0 13 6 0 13 6 13 6 13 6 13 6 13 6 13 6 14 33 34 10:130 PM 2 0 3 2 7 1 13 0 2 26 0 0 0 14 0 15 8 0 23 34 11:150 PM 7 0 6 0 13 18 9 0 0 17 1 0 13 4 3 20 13 4 3 20 13 4 3 20 51 11 13 4 3 20 51 14 3 20 51 14 3 20 51 14 32<!--</td--><td>10:00 PM 3 0 4 0 7 4 6 0 1 11 0 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 11 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 6 0 0 0 0 14 9 0 5 1 16 36 10:45 PM 1 1 2 3 1 1 0 0 0 1 4 0 1 1 10 0 0 1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 0 1 1 1 1 1 1 1</td><td>Start Imme Right Thru Left Peds Ausstrad Right Thru Left Peds Right Thru Left Peds Right Thru Left Peds Rig</td><td>Southbound Westbound Right Thru Left Peds Aver-real Right Thru Left Peds Aver-real</td><td>Sart Time Right Thru Left Peds Average Right Thru Left</td></td>	11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 17 0 0 1 1 0 13 4 3 20 51 11:30 PM 3 0 4 0 7 6 0 0 13 0 0 0 2 2 0 5 9 0 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 20 14 43 32 14 43 20 14 43 32 14 43 32 14 43 32 14 43 20 14 43 32 14 43 43 14 43 20 14 14	11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 11 9 11 7 0 0 11 1 11 7 0 0 11 1	11:00 PM 12 0 4 1 17 2 7 0 0 9 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 6 0 13 8 9 0 0 17 0 0 1 4 3 20 13 4 3 20 51 11:15 PM 3 0 13 11 7 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 0 0 17 0 0 17 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 0 3 8 1 17 1 17 1 18 0 0 0 0 1 14 31 14 32 185 10 15 10 15	Total 18 0 16 2 36 11 13 0 2 26 0 0 4 4 0 52 28 1 81 14 13 0 2 26 0 0 4 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 3 0 13 11 7 0 0 13 0 13 4 3 20 51 11:15 PM 3 0 17 1 50 1 1 1 1 7 0 13 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	10:45 PM 2 0 3 2 7 4 0 0 4 0 0 0 0 15 8 0 23 34 Total 18 0 16 2 36 11 13 0 2 26 0 0 0 4 0 52 28 1 81 147 11:00 PM 7 0 6 0 13 8 9 0 0 17 0 0 2 2 0 10 9 2 21 49 11:15 PM 7 0 0 17 0 0 17 0 0 13 4 3 20 13 0 0 0 13 4 3 20 14 3 20 14 47 11:45 PM 3 0 1 3 8 29 0 13 0 0 0<	10:30 PM 9 0 5 0 14 2 3 0 1 6 0 0 0 0 10 5 1 16 3 2 7 14 0 0 0 0 0 0 0 0 10 5 1 16 36 11:00 PM 12 0 4 1 17 2 7 0 2 26 0 0 0 10 52 28 1 81 147 11:15 PM 7 0 6 0 13 8 9 0 0 1 1 0 13 4 3 20 51 11:15 PM 3 0 17 1 60 0 13 0 1 1 0 13 20 13 20 13 20 13 20 13 20 14 32 20 14 3	10:15 PM 4 0 4 0 4 0 1 4 0 5 0 0 4 0 13 6 0 13 6 0 13 6 0 13 6 13 6 13 6 13 6 13 6 13 6 14 33 34 10:130 PM 2 0 3 2 7 1 13 0 2 26 0 0 0 14 0 15 8 0 23 34 11:150 PM 7 0 6 0 13 18 9 0 0 17 1 0 13 4 3 20 13 4 3 20 13 4 3 20 51 11 13 4 3 20 51 14 3 20 51 14 3 20 51 14 32 </td <td>10:00 PM 3 0 4 0 7 4 6 0 1 11 0 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 11 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 6 0 0 0 0 14 9 0 5 1 16 36 10:45 PM 1 1 2 3 1 1 0 0 0 1 4 0 1 1 10 0 0 1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 0 1 1 1 1 1 1 1</td> <td>Start Imme Right Thru Left Peds Ausstrad Right Thru Left Peds Right Thru Left Peds Right Thru Left Peds Rig</td> <td>Southbound Westbound Right Thru Left Peds Aver-real Right Thru Left Peds Aver-real</td> <td>Sart Time Right Thru Left Peds Average Right Thru Left</td>	10:00 PM 3 0 4 0 7 4 6 0 1 11 0 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 11 0 0 0 14 9 0 23 34 10:30 PM 2 0 3 2 7 4 0 0 1 6 0 0 0 0 14 9 0 5 1 16 36 10:45 PM 1 1 2 3 1 1 0 0 0 1 4 0 1 1 10 0 0 1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 0 1 1 1 1 1 1 1	Start Imme Right Thru Left Peds Ausstrad Right Thru Left Peds Right Thru Left Peds Right Thru Left Peds Rig	Southbound Westbound Right Thru Left Peds Aver-real Right Thru Left Peds Aver-real	Sart Time Right Thru Left Peds Average Right Thru Left







Richard Garcia & Associates, Inc. 8065 NW 98 Street

8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 19 St_Liberty Ave_PM Site Code : 00000000 Start Date : 11/30/2018 Page No : 2

		LIB	ERTY	AVE			9000	19 ST	Г			LIB	ERTY	AVE				19 S	Г		
		So	uthbo	und			W	estbo	und			No	rthbo	und			Ea	astbo	und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour A	nalysis	From '	10:00 F	PM to 1	11:45 PM	I - Pea	k 1 of	1										Contraction (in the original law)			
Peak Hour fo	r Entire	e Inters	ection	Begins	at 11:0	0 PM															
11:00 PM	12	0	4	1	17	2	7	0	0	9	0	0	D	2	2	0	10	9	2	21	49
11:15 PM	7	0	6	0	13	8	9	0	0	17	0	0	0	1	1	0	13	4	3	20	51
11:30 PM	10	0	3	0	13	11	7	0	0	18	0	0	D	2	2	Ō	5	9	õ	14	47
11:45 PM	3	0	4	0	7	7	6	0	0	13	0	0	0	ō	0	0	9	5	4	18	38
Total Volume	32	0	17	1	50	28	29	0	0	57	0	0	0	5	5	0	37	27	9	73	185
% App. Total	64	0	34	2		49.1	50.9	0	0		0	۵	0	100		0	50.7	37	12.3		
PHF	.667	.000	.708	.250	.735	.636	.806	.000	.000	.792	.000	.000	000	625	625	000	712	750	563	869	.907



Richard Garcia & Associates, Inc.

8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 20 St_Liberty Ave_PM Site Code : 00000000 Start Date : 11/30/2018 Page No : 1

								Gre	oups P	rinted-	Cars -	Truck	5								
		LIB	ERTY	AVE			w	20 ST estbo	r und	inted	Juis	LIB	ERTY	AVE und			E	20 S astbo	Tund]
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
10:00 PM	1	5	1	9	16	6	15	0	3	24	5	10	0	17	32	2	15	0	1	18	90
10:15 PM	1	5	5	9	20	1	8	2	3	14	3	5	0	24	32	2	10	3	1	16	82
10:30 PM	2	7	7	4	20	3	11	3	7	24	4	2	1	11	18	4	14	3	0	21	83
10:45 PM	1	1	3	3	8	1	5	1	3	10	4	7	1	8	20	3	11	1	0	15	53
Total	5	18	16	25	64	11	39	6	16	72	16	24	2	60	102	11	50	7	2	70	308
11:00 PM	0	5	6	6	17	2	11	4	2	19	3	8	0	5	16	6	4	5	0	15	67
11: 15 PM	2	8	4	3	17	4	14	2	0	20	2	9	1	10	22	3	17	2	1	23	82
11:30 PM	1	6	2	4	13	1	17	5	1	24	6	13	1	9	29	2	14	5	0	21	87
11:45 PM	1	3	3	2	9	2	10	3	2	17	5	7	0	7	19	2	14	2	1	19	64
Total	4	22	15	15	56	9	52	14	5	80	16	37	2	31	86	13	49	14	2	78	300
Grand Total	9	40	31	40	120	20	91	20	21	152	32	61	4	91	188	24	99	21	4	148	608
Apprch %	7.5	33.3	25.8	33.3		13.2	59.9	13.2	13.8		17	32.4	2.1	48.4		16.2	66.9	14.2	2.7		
Total %	1.5	6.6	5.1	6.6	19.7	3.3	15	3.3	3.5	25	5.3	10	0.7	15	30.9	3.9	16.3	3.5	0.7	24.3	
Cars	9	40	31	40	120	20	91	20	21	152	32	61	4	91	188	24	90	20	4	138	598
% Cars	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	90.9	95.2	100	93.2	98.4
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	0	10	10
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.1	4.8	0	6.8	1.6

Richard Garcia & Associates, Inc.

8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

> File Name : 20 St_Liberty Ave_PM Site Code : 00000000 Start Date : 11/30/2018 Page No : 2

		LIB So	ERTY uthbo	AVE			w	20 ST estbo	r und			LIB	ERTY	AVE			E	20 ST	r und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Ar	nalysis	From	10:00	PM to 1	11:45 PM	I - Pea	k 1 of	1													
Peak Hour fo	r Entire	e Inters	ection	Begins	s at 10:0	0 PM															
10:00 PM	1	5	1	9	16	6	15	0	3	24	5	10	0	17	32	2	15	0	1	18	90
10:15 PM	1	5	5	9	20	1	8	2	3	14	3	5	0	24	32	2	10	3	1	16	82
10:30 PM	2	7	7	4	20	3	11	3	7	24	4	2	1	11	18	4	14	3	0	21	83
10:45 PM	1	1	3	3	8	1	5	1	3	10	4	7	1	8	20	3	11	1	0	15	53
Total Volume	5	18	16	25	64	11	39	6	16	72	16	24	2	60	102	11	50	7	2	70	308
% App. Total	7.8	28.1	25	39.1		15.3	54.2	8.3	22.2		15.7	23.5	2	58.8		15.7	71.4	10	2.9		
PHF	.625	.643	.571	.694	.800	.458	.650	.500	.571	.750	.800	.600	.500	.625	.797	.688	.833	.583	.500	.833	.856

Appendix 6: Level of Service (LOS)

TABLE: A4

Level of Service (LOS) Summary - PM Peak Hour

Exi	isting Condition (2018)		2 CAN	PMI	Peak (Week	day)	
	Location	Intersection		Overall	Critical J	Approa	ich TWSC
	Location	Control	LOS	Delay (sec)	Approach	LOS	Delay (sec)
1	Washington Avenue & 19 Street	Traffic Signal	А	6.1		-	1
2	Washington Avenue & 20 Street	Traffic Signal	А	9.7	-		-
3	Park Avenue & 19 Street	Two-Way Stop	А	4.2	SB	А	9.3
4	Park Avenue & 20 Street	All-Way Stop	А	7.7	-	-	
5	Liberty Avenue & 19 Street	Two-Way Stop	А	3.8	SB	А	9.2
6	Liberty Avenue & 20 Street	Two-Way Stop	А	6.9	EB	В	10.4
Fut	ture Condition (with Project Trips) (2020)			PM I	Peak (Week	day)	
1	Location	Intersection		Overall	Critical /	Approa	ch TWSC
	Location	Control	LOS	Delay (sec)	Approach	LOS	Delay (sec)
1	Washington Avenue & 19 Street	Traffic Signal	А	6.0	-	-	-
2	Washington Avenue & 20 Street	Traffic Signal	В	10.7	-	-	-
3	Park Avenue & 19 Street	Two-Way Stop	А	4.2	SB	А	9.7
4	Park Avenue & 20 Street	All-Way Stop	А	7.8	-	-	-
5	Liberty Avenue & 19 Street	Traffic Signal	А	4.2	SB	А	9.2
6	Liberty Avenue & 20 Street	Two-Way Stop	А	7.9	WB	В	11.1

Project Name: Park Hotel

Notes: * Critical Approach for TWSC.

Existing Condition - PM Peak Hour

Park Hotel

HCM Signalized Intersection Capacity Analysis 1: Washington Ave & 19 St

	*	*	1	1	1	¥		
Movement	WBL	WBR	NBT	NBR	SBL	SBT		
Lane Configurations	W		† 1 ₂			4 ۲,		
Traffic Volume (vph)	50	28	467	18	25	158		
Future Volume (vph)	50	28	467	18	25	158		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	6.0		6.0			6.0		
Lane Util. Factor	1.00		0.95			0.95		
Frob, ped/bikes	1.00		1.00			1.00		
Flpb, ped/bikes	1.00		1.00			1.00		
Frt	0.95		0.99	and the second second		1.00		
Fit Protected	0.97		1.00			0.99		
Satd. Flow (prot)	1710		3517			3515		
Fit Permitted	0.97		1.00			0.87		
Satd, Flow (perm)	1710		3517			3085		
Peak-hour factor PHE	0.95	0.95	0.95	0.95	0.05	0.95	The off state of the should be	
Adi, Flow (vph)	53	29	492	10	28	166		
RTOR Reduction (voh)	26	0	102	0	20	0		
Lane Group Flow (vph)	56	0	500	0	0	192		
Confl. Peds (#/hr)	00	2	503	2	2	192		
	Drot	2	NIA	4	Dorm	NA		
Protected Phases	PIUL		NA 2		Penn	NA C		
Permitted Phases	0		2		C	0		
Actuated Green G (s)	60	and the second	61.4		0	04.4		R
Effective Green, G (s)	6.0		61.1			01.1		
Actuated a/C Patio	0.9		01.1			01.1		
Clearance Time (c)	0.09		0.76			0.76		
Vehicle Extension (a)	0.0		0.0			6.0	And the second statements	
venicie Extension (s)	2.3		1.0			1.0		
Lane Grp Cap (vpn)	14/		2686			2356		
V/s Ratio Prot	c0.03		c0.14					And and
vis Ralio Perm	0.00		0.40			0.06		
V/C Ratio	0.38		0.19	and services		0.08	A Contraction of the second	
Dragroppion Frater	34.5		2.6			2.4		
Frogression Factor	1.00		1.00			0.95		
Delay (a)	1.2		0.2			0.1		
Delay (s)	35.7		2.8			2.3		
Level of Service	D		A			A		
Approach Delay (s)	35.7		2.8			2.3		
Approach LOS	D		A			A		
ntersection Summary								
HCM 2000 Control Delay			6.1	F	ICM 2000	Level of Service	A	
HCM 2000 Volume to Capa	city ratio		0.21					
Actuated Cycle Length (s)			80.0	S	um of lost	time (s)	12.0	
ntersection Capacity Utiliza	ation		40.7%	10	CU Level o	of Service	A	
Analysis Period (min)			15					
c Critical Lane Group								

Timings 1: Washington Ave & 19 St

	*	Ť	4	ŧ		
Lane Group	WBL	NBT	SBL	SBT		
Lane Configurations	W	≜ ₽		412		
Traffic Volume (vph)	50	467	25	158		
Future Volume (vph)	50	467	25	158		
Turn Type	Prot	NA	Perm	NA		
Protected Phases	8	2		6		
Permitted Phases			6			
Detector Phase	8	2	6	6		
Switch Phase						
Minimum Initial (s)	7.0	16.0	16.0	16.0		
Minimum Split (s)	35.0	24.0	24.0	24.0		
Total Split (s)	35.0	45.0	45.0	45.0		
Total Split (%)	43.8%	56.3%	56.3%	56.3%		
Yellow Time (s)	4.0	4.0	4.0	4.0		
All-Red Time (s)	2.0	2.0	2.0	2.0		
Lost Time Adjust (s)	0.0	0.0		0.0		
Total Lost Time (s)	6.0	6.0		6.0		
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	None	C-Min	C-Min	C-Min		
Act Effct Green (s)	8.3	63.5		63.5		
Actuated g/C Ratio	0.10	0.79		0.79		
v/c Ratio	0.40	0.18		0.08	a sugar a sugar	
Control Delay	29.2	3.0		2.7		
Queue Delay	0.0	0.0		0.0		
Total Delay	29.2	3.0		2.7		
LOS	С	A		А		
Approach Delay	29.2	3.0		2.7		
Approach LOS	С	А		А		
Intersection Summary						
Cycle Length: 80			In the second	N PROBING		
Actuated Cycle Length: 80						
Offset: 27 (34%), Reference	d to phase	2:NBT a	nd 6:SBT	L. Start o	f Yellow	
Natural Cycle: 60	P. P. Soc					
Control Type: Actuated-Coo	rdinated		BE CU			12 AV. X
Maximum v/c Ratio: 0.40						
Intersection Signal Delay: 5.	7			lr	tersection LOS: A	
Intersection Capacity Utilization	tion 40.7%			10	CU Level of Service A	
Analysis Period (min) 15						
Colite and Dhesses 4, We	ahluates A					
Splits and Phases: 1: Was	snington A	ve & 19 S	at			

Tø2 (R)	
45 s	
Ø6 (R)	₹ Ø8
45 s	35 s

Queues 1: Washington Ave & 19 St

				g
	4	Ť	ţ	
Lane Group	WBL	NBT	SBT	
Lane Group Flow (vph)	82	511	192	
v/c Ratio	0.40	0.18	0.08	
Control Delay	29.2	3.0	2.7	
Queue Delay	0.0	0.0	0.0	
Total Delay	29.2	3.0	2.7	
Queue Length 50th (ft)	25	28	10	
Queue Length 95th (ft)	64	52	19	
Internal Link Dist (ft)	41	262	492	
Turn Bay Length (ft)				
Base Capacity (vph)	638	2792	2450	
Starvation Cap Reductn	0	0	0	
Spillback Cap Reductn	0	0	0	
Storage Cap Reductn	0	0	0	
Reduced v/c Ratio	0.13	0.18	0.08	
Intersection Summary				

HCM 6th Signalized Intersection Summary 2: Washington Ave & 20 St

	٨	-	\mathbf{r}	*	4-	A.	4	Ť	1	1	Ļ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		¢\$			4			đ þ			đ þ.	
Traffic Volume (veh/h)	0	0	0	26	0	15	0	474	30	37	148	0
Future Volume (veh/h)	0	0	0	26	0	15	0	474	30	37	148	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	0.99		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No	and a second		No	1100 1001-0001-0
Adj Sat Flow, veh/h/In	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	0	0	0	27	0	16	0	494	31	39	154	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	0	135	0	127	15	40	0	2620	164	410	1804	0
Arrive On Green	0.00	0.00	0.00	0.07	0.00	0.07	0.00	0.26	0.26	0.78	0.78	0.00
Sat Flow, veh/h	0	1856	0	735	208	559	0	3462	211	446	2405	0
Grp Volume(v), veh/h	0	0	0	43	0	0	0	258	267	94	99	0
Grp Sat Flow(s),veh/h/ln	0	1856	0	1501	0	0	0	1763	1818	1162	1604	0
Q Serve(g_s), s	0.0	0.0	0.0	0.9	0.0	0.0	0.0	9.1	9.2	0.5	1.2	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	2.0	0.0	0.0	0.0	9.1	9.2	9.7	1.2	0.0
Prop In Lane	0.00		0.00	0.63		0.37	0.00		0.12	0.41		0.00
Lane Grp Cap(c), veh/h	0	135	0	182	0	0	0	1371	1413	967	1247	0
V/C Ratio(X)	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.19	0.19	0.10	0.08	0.00
Avail Cap(c_a), veh/h	0	626	0	565	0	0	0	1371	1413	967	1247	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.99	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	35.3	0.0	0.0	0.0	10.0	10.0	2.4	2.1	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.3	0.3	0.2	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	0.0	0.0	0.0	0.8	0.0	0.0	0.0	3.2	3.3	0.2	0.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	0.0	0.0	35.8	0.0	0.0	0.0	10.3	10.3	2.6	2.2	0.0
LnGrp LOS	А	А	А	D	А	А	А	В	В	А	А	А
Approach Vol, veh/h	205 3	0		131-171	43		ALC: NO	525	nite and a	1370.23	193	
Approach Delay, s/veh		0.0			35.8			10.3		and an an and a second second second	2.4	
Approach LOS					D			В	S. S. LOW		А	
Timer - Assigned Phs		2		4		6	lis Transforments	8				
Phs Duration (G+Y+Rc), s		68.2		11.8		68.2		11.8				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		41.0		27.0		41.0		27.0				
Max Q Clear Time (g_c+l1), s		11.2		0.0		11.7		4.0				
Green Ext Time (p_c), s		0.2		0.0		0.1		0.1				
Intersection Summary						- Eta E						
HCM 6th Ctrl Delay			9.7									
HCM 6th LOS			A								Contraction of the second	and the second second

Timings 2: Washington Ave & 20 St

Park Hotel Existing Condition - PM Peak Hour

	*	-	Ť	1	ŧ	
Lane Group	WBL	WBT	NBT	SBL	SBT	Ø4
Lane Configurations		4	đ þ		đþ	
Traffic Volume (vph)	26	0	474	37	148	
Future Volume (vph)	26	0	474	37	148	
Turn Type	Perm	NA	NA	Perm	NA	
Protected Phases		8	2		6	4
Permitted Phases	8			6		
Detector Phase	8	8	2	6	6	
Switch Phase						
Minimum Initial (s)	7.0	7.0	15.0	15.0	15.0	7.0
Minimum Split (s)	33.0	33.0	24.0	24.0	24.0	33.0
Total Split (s)	33.0	33.0	47.0	47.0	47.0	33.0
Total Split (%)	41.3%	41.3%	58.8%	58.8%	58.8%	41%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)		0.0	0.0		0.0	
Total Lost Time (s)		6.0	6.0		6.0	
Lead/Lag						
Lead-Lag Optimize?						
Recall Mode	None	None	C-Min	C-Min	C-Min	None
Act Effct Green (s)		7.2	68.4		68.4	
Actuated g/C Ratio		0.09	0.86		0.86	
v/c Ratio		0.26	0.18		0.08	
Control Delay		16.5	0.6		2.1	
Queue Delay		0.0	0.0		0.0	
Total Delay		16.5	0.6		2.1	
LOS	No. of Street,	В	А		A	
Approach Delay		16.5	0.6		2.1	
Approach LOS		В	A		A	
Intersection Summary						
Cycle Length: 80						
Actuated Cycle Length: 80						
Offset: 42 (53%), Reference	d to phase	2:NBTL	and 6:SB	TL. Start	of Yellow	
Natural Cycle: 60					or renoti	
Control Type: Actuated-Coo	rdinated					
Maximum v/c Ratio: 0.26				The second s		
Intersection Signal Delay: 1.	8			Ir	tersection	LOS: A
Intersection Capacity Utilizat	tion 48.4%	CONTRACTOR SAL		K	CU Level	of Service A
Analysis Period (min) 15						
· manufacture and a second			ar carts to detail to the	- ARABITATING A		

Splits and Phases: 2: Washington Ave & 20 St

<1 Ø2 (R)	4 04	
47 s	33 s	The State
Ø6 (R)	√ Ø8	
47 s	33 s	

Queues 2: Washington Ave & 20 St

	-	Ť	T
		I	¥
Lane Group	WBT	NBT	SBT
Lane Group Flow (vph)	43	525	193
v/c Ratio	0.26	0.18	0.08
Control Delay	16.5	0.6	2.1
Queue Delay	0.0	0.0	0.0
Total Delay	16.5	0.6	2.1
Queue Length 50th (ft)	1	5	10
Queue Length 95th (ft)	30	9	17
Internal Link Dist (ft)	262	492	315
Turn Bay Length (ft)			
Base Capacity (vph)	502	2971	2463
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.09	0.18	0.08
Intersection Summary			

Intersection	STORAGE ST	San Barrier		the plant	121 100	AT LOS
Int Delay, s/veh	4.2					
Movement	EBL	EBT	WBT	WBR	SBI	SBR
Lane Configurations		£	ţ,		M	
Traffic Vol. veh/h	9	46	39	17	40	37
Future Vol. veh/h	9	46	39	17	40	37
Conflicting Peds #/hr	3	.0	0	2	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	100	None	1166	None	Stop	None
Storage Length	Construction of	Hone		None	0	NOTE
Veh in Median Storage	• # -	0	0		0	
Grade %	ο, π -	0	0		0	
Peak Hour Easter	00	0	0	00	0	00
Heavy Vehicles %	00	00	00	00	00	00
Mumt Flow	10	50	2	10	15	40
	10	52	44	19	45	42
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	66	0		0	129	57
Stage 1		-	-	-	57	-
Stage 2	-		(-)	-	72	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	(<u>1</u> 4)	-	5.42	C Steel D V
Critical Hdwy Stg 2					5.42	-
Follow-up Hdwv	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1536			1	865	1009
Stage 1	-	-	-	-	966	
Stage 2		-		1100-0	951	151/131
Platoon blocked %	A REAL PROPERTY AND				001	
Mov Cap-1 Maneuver	1532				854	1006
Mov Cap-2 Maneuver	1002				854	1000
Stage 1	-				056	
Stage 7	New Sta	01,03	Martin (E)		040	
olaye z	Sectors.	-	-	-	940	-
		04/14/744		1		
Approach	EB		WB		SB	
HCM Control Delay, s	1.2	1	0		9.3	
HCM LOS					A	
Minor Long Marine Mar	-+	EDI	EDT	MOT	MAR	
Minor Lane/Major Mvn	nt	EBL	EBI	WBI	WBR	SBLN1
Capacity (veh/h)		1532	-	4 H	-	921
HCM Lane V/C Ratio		0.007	-	-	-	0.095
HCM Control Delay (s)		7.4	0	÷	-	9.3
HCM Lane LOS		A	A	-	7	A
HCM 95th %tile Q(veh)	0	-	-	-	0.3

HCM 6th AWSC 4: Park Ave & 20 St

	New Control of the Real Property in the local division of the loca	
Intersection	and the second second	
Intersection Delay, s/veh	7.7	
Intersection LOS	А	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			4			\$			4	
Traffic Vol, veh/h	6	54	5	4	41	17	3	19	2	26	55	4
Future Vol, veh/h	6	54	5	4	41	17	3	19	2	26	55	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	7	60	6	4	46	19	3	21	2	29	61	4
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB			SB		
Opposing Approach	WB			EB			SB			NB		
Opposing Lanes	1			1		Seat and	1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1	the second		1			1	1.153.30	
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1	1		1			1		
HCM Control Delay	7.7			7.5			7.5			7.9	NEW CONTRACTOR	
HCM LOS	А			А			А			А		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	12%	9%	6%	31%	
Vol Thru, %	79%	83%	66%	65%	
Vol Right, %	8%	8%	27%	5%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	24	65	62	85	
LT Vol	3	6	4	26	
Through Vol	19	54	41	55	
RT Vol	2	5	17	4	
Lane Flow Rate	27	72	69	94	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.031	0.084	0.078	0.111	
Departure Headway (Hd)	4.243	4.187	4.066	4.248	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Сар	830	844	869	834	
Service Time	2.34	2.269	2.15	2.325	
HCM Lane V/C Ratio	0.033	0.085	0.079	0.113	
HCM Control Delay	7.5	7.7	7.5	7.9	
HCM Lane LOS	A	А	А	А	
HCM 95th-tile Q	0.1	0.3	0.3	0.4	

Intersection						
Int Delay, s/veh	3.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		đ	î.		M	
Traffic Vol. veh/h	29	40	31	30	18	34
Future Vol. veh/h	29	40	31	30	18	34
Conflicting Peds #/hr	1	0	0	1	0	a a
Sign Control	Free	Free	Free	Free	Ston	Stop
RT Channelized		None		None	Ciup	None
Storage Length		-		-	0	none
Veh in Median Storage	# -	0	0		0	
Grade %	, п –	0	0		0	
Peak Hour Factor	01	01	01	01	01	01
Heavy Vehicles %	2	2	5	21	2	51
Mumt Flow	20	44	24	22	20	2
WWITCHOW	52	44	04	33	20	37
		5.010-10-0				
Major/Minor	Major1	N	Aajor2	1	Minor2	
Conflicting Flow All	68	0	-	0	160	61
Stage 1		-	-	19 <u>-</u>	52	
Stage 2		-	-	-	108	-
Critical Hdwv	4.12				6.42	6.22
Critical Hdwy Sto 1	-	-	-		5.42	
Critical Hdwy Sto 2			No. 1991		5.42	
Follow-up Hdwy	2 218	-			3 518	3 318
Pot Cap-1 Maneuver	1533	100			831	1004
Stage 1	1000	_			070	1004
Stage 2		1612	-	STREET,	016	-
Platoon blocked %		Acan-	100 CONT		910	-
May Cap 1 Manager	1520	-	-	-	040	004
May Cop 2 Manager	1552	200 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100			012	994
wov Cap-2 Maneuver	(Cating and		-	-	812	-
Stage 1	-	n Asian	-	•	949	-
Stage 2	-	-	-	-	915	-
			Sec.			
Approach	EB		WB		SB	
HCM Control Delay	31		0		92	
HCM LOS	9.1				Δ	I.X. A.L.
					~	
	and the second					
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1532		-		922
HCM Lane V/C Ratio		0.021	-	7	-	0.062
HCM Control Delay (s)		7.4	0	-	-	9.2
HCM Lane LOS		А	А	-	-	A
HCM 95th %tile Q(veh)	A States	01	-	-	-	02

Intersection										11.70				
Int Delay, s/veh	6.9													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations		\$			4	an an ann an Allan		4			4			
Traffic Vol, veh/h	7	54	12	6	42	12	2	26	17	17	19	5		
Future Vol, veh/h	7	54	12	6	42	12	2	26	17	17	19	5		
Conflicting Peds, #/hr	25	0	60	60	0	25	2	0	16	16	0	2		State 14
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		
RT Channelized	-	-	None			None	-		None	-	-	None		
Storage Length			-	-		-	-	-	-	-	-	-		
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-		
Grade, %	-	0		-	0	-	-	0	2 - 2	-	0	1420		Participation of the
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86		
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2		
Mymt Flow	8	63	14	7	49	14	2	30	20	20	22	6		

Major/Minor	Minor2			Minor1			Major1			N	lajor2	1.1.2	-	
Conflicting Flow All	168	137	87	224	130	81	30	()	0	66	0	0	
Stage 1	67	67	-	60	60	-	-	12		-	-	-	-	
Stage 2	101	70	-	164	70	-	-	3	2	-		-	40	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12			-	4.12		-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-			-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-			-		-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218		•	-	2.218	-	-	
Pot Cap-1 Maneuver	796	754	971	732	761	979	1583			-	1536	-	-	
Stage 1	943	839	*	951	845	-	-	14		-	3 4		-	-
Stage 2	905	837	-	838	837	-	-			-	-	-	-	
Platoon blocked, %								5.		140		-	-	
Mov Cap-1 Maneuver	718	731	914	619	737	941	1580			-	1513	-	-	
Mov Cap-2 Maneuver	718	731	-	619	737	-	-			-	-		-	
Stage 1	940	826	-	936	831	-	-			-	Maria-S	-	-	
Stage 2	818	824	-	710	824	-	-		•	181	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	10.4	10.3	0.3	3.1	
HCM LOS	В	В			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1\	WBLn1	SBL	SBT	SBR		
Capacity (veh/h)	1580	-	-	755	755	1513	-	1	a service services	36.31
HCM Lane V/C Ratio	0.001		-	0.112	0.092	0.013	-	-		
HCM Control Delay (s)	7.3	0	-	10.4	10.3	7.4	0	-		
HCM Lane LOS	А	А	Ŧ	В	В	A	А	-		
HCM 95th %tile Q(veh)	0	-	-	0.4	0.3	0	-	-		

Future Condition - PM Peak Hour

Park Hotel

HCM Signalized Intersection Capacity Analysis 1: Washington Ave & 19 St

	*	A.	Ť	1	1	ŧ	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	W		* \$			A 16	
Traffic Volume (vph)	52	29	483	34	37	174	
Future Volume (vph)	52	29	483	34	37	174	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	6.0		6.0			6.0	
Lane Util. Factor	1.00		0.95			0.95	
Frpb, ped/bikes	1.00		1.00			1.00	
Flpb, ped/bikes	1.00		1.00			1.00	
Frt	0.95		0.99			1.00	
Fit Protected	0.97		1.00			0.99	
Satd. Flow (prot)	1709		3499			3508	
Fit Permitted	0.97		1.00			0.83	A REAL PROPERTY AND
Satd. Flow (perm)	1709	11 programme and a	3499			2935	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	
Adj. Flow (vph)	55	31	508	36	39	183	
RTOR Reduction (vph)	28	0	3	0	0	0	
Lane Group Flow (vph)	58	0	541	0	0	222	
Confl. Peds. (#/hr)		2		2	2		
Turn Type	Prot		NA		Perm	NA	
Protected Phases	8		2		199	6	San State in S
Permitted Phases			and the second second		6		
Actuated Green, G (s)	7.0		61.0			61.0	
Effective Green, g (s)	7.0		61.0	Contract of Local And		61.0	
Actuated g/C Ratio	0.09	10.00	0.76	Section 200		0.76	
Clearance Time (s)	6.0		6.0	Contra Mandal		6.0	
venicle Extension (s)	2.5		1.0		all showing a	1.0	
Lane Grp Cap (vph)	149	the state of the	2667			2237	
v/s Ratio Prot	c0.03		c0.15				
v/s Ratio Perm						0.08	
V/c Ratio	0.39		0.20	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		0.10	
Uniform Delay, d1	34.5		2.7			2.4	
Progression Factor	1.00		1.00			0.90	Hard Carlor
Incremental Delay, d2	1.2		0.2			0.1	
Delay (S)	35.7	AL STREET	2.8			2.3	
Approach Delay (c)	D 25.7		A			A 22	
Approach LOS	55.7 D		2.0 A		Service March	Δ.3	
	ע		~	CONTRACTOR NAMES		~	
Intersection Summary							
HCM 2000 Control Delay			6.0	ŀ	HCM 2000	Level of Service	
HCM 2000 Volume to Capa	acity ratio		0.22	211 2 1 2			Har Star
Actuated Cycle Length (s)			80.0	Ş	sum of lost	time (s)	12
Intersection Capacity Utiliza	ation		48.0%	Here a	CU Level o	of Service	
Analysis Period (min)			15		a state and a		
C Offical Laffe Group							

Timings <u>1: Washington Ave & 19 St</u>

Park Hotel Future Condition - PM Peak Hour

	*	Ť	1	ŧ
Lane Group	WBL	NBT	SBL	SBT
Lane Configurations	W	≜ î≽		41
Traffic Volume (vph)	52	483	37	174
Future Volume (vph)	52	483	37	174
Turn Type	Prot	NA	Perm	NA
Protected Phases	8	2		6
Permitted Phases			6	
Detector Phase	8	2	6	6
Switch Phase				
Minimum Initial (s)	7.0	16.0	16.0	16.0
Minimum Split (s)	35.0	24.0	24.0	24.0
Total Split (s)	35.0	45.0	45.0	45.0
Total Split (%)	43.8%	56.3%	56.3%	56.3%
Yellow Time (s)	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0		0.0
Total Lost Time (s)	6.0	6.0		6.0
Lead/Lag				
Lead-Lag Optimize?				
Recall Mode	None	C-Min	C-Min	C-Min
Act Effct Green (s)	8.4	63.4		63.4
Actuated g/C Ratio	0.10	0.79		0.79
v/c Ratio	0.42	0.20		0.10
Control Delay	29.0	3.0		2.7
Queue Delay	0.0	0.0		0.0
Total Delay	29.0	3.0		2.7
LOS	С	А	1125-11	А
Approach Delay	29.0	3.0		2.7
Approach LOS	С	А		А
Intersection Summary				
Cycle Length: 80	in the second			
Actuated Cycle Length: 80				
Offset: 27 (34%), Reference	d to phase	2:NBT a	nd 6:SBT	L, Start o
Natural Cycle: 60				
Control Type: Actuated-Cool	rdinated			
Maximum v/c Ratio: 0.42				
Intersection Signal Delay: 5.	6		Ten State	1
Intersection Capacity Utilizat	tion 48.0%			1
Analysis Period (min) 15				
an and the second second second				

Splits and Phases: 1: Washington Ave & 19 St

Queues 1: Washington Ave & 19 St

And the second sec		Contract of the second		
	*	Ť	ţ	
Lane Group	WBL	NBT	SBT	
Lane Group Flow (vph)	86	544	222	
v/c Ratio	0.42	0.20	0.10	
Control Delay	29.0	3.0	2.7	
Queue Delay	0.0	0.0	0.0	
Total Delay	29.0	3.0	2.7	
Queue Length 50th (ft)	26	31	11	
Queue Length 95th (ft)	65	56	21	
Internal Link Dist (ft)	41	262	492	
Turn Bay Length (ft)				
Base Capacity (vph)	638	2776	2326	
Starvation Cap Reductn	0	0	0	
Spillback Cap Reductn	0	0	0	
Storage Cap Reductn	0	0	0	
Reduced w/e Detie	0.13	0.20	0.10	

HCM 6th Signalized Intersection Summary 2: Washington Ave & 20 St

	٠	-	7	1	-	Ł	1	Ť	1	1	¥	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			4			đþ			લી કે	
Traffic Volume (veh/h)	0	0	0	37	0	24	0	491	31	39	165	0
Future Volume (veh/h)	0	0	0	37	0	24	0	491	31	39	165	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	0.99		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	0	0	0	39	0	25	0	511	32	41	172	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	0	156	0	135	14	49	0	2581	161	388	1794	0
Arrive On Green	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.25	0.25	0.77	0.77	0.00
Sat Flow, veh/h	0	1856	0	744	167	584	0	3463	211	424	2428	0
Grp Volume(v), veh/h	0	0	0	64	0	0	0	267	276	104	109	0
Grp Sat Flow(s),veh/h/ln	0	1856	0	1495	0	0	0	1763	1818	1163	1604	0
Q Serve(g_s), s	0.0	0.0	0.0	2.1	0.0	0.0	0.0	9.5	9.6	0.6	1.4	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	3.2	0.0	0.0	0.0	9.5	9.6	10.1	1.4	0.0
Prop In Lane	0.00		0.00	0.61		0.39	0.00		0.12	0.40		0.00
Lane Grp Cap(c), veh/h	0	156	0	198	0	0	0	1350	1392	954	1228	0
V/C Ratio(X)	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.20	0.20	0.11	0.09	0.00
Avail Cap(c_a), veh/h	0	626	0	566	0	0	0	1350	1392	954	1228	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.99	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	34.9	0.0	0.0	0.0	10.6	10.6	2.6	2.4	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.3	0.3	0.2	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	0.0	0.0	0.0	1.2	0.0	0.0	0.0	3.6	3.7	0.3	0.3	0.0
Unsig. Movement Delay, s/veh			1000	Alter States					GANA OTHER PAR		ninin se	
LnGrp Delay(d),s/veh	0.0	0.0	0.0	35.6	0.0	0.0	0.0	10.9	10.9	2.8	2.5	0.0
LnGrp LOS	A	A	A	D	Α	A	A	В	В	A	A	<u> </u>
Approach Vol, veh/h	1 Standard	0	a di data		64			543			213	
Approach Delay, s/veh		0.0			35.6			10.9			2.7	
Approach LOS			Partie and		D	Street R		В			А	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		67.3		12.7		67.3		12.7				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		41.0		27.0		41.0		27.0				
Max Q Clear Time (g_c+l1), s		11.6		0.0		12.1		5.2				
Green Ext Time (p_c), s	1	0.3		0.0		0.1		0.1				
Intersection Summary	6											
HCM 6th Ctrl Delay			10.7									
HCM 6th LOS			В									

Timings 2: Washington Ave & 20 St

Park Hotel Future Condition - PM Peak Hour

	¥	-	Ť	1	ŧ	
Lane Group	WBL	WBT	NBT	SBL	SBT	Ø4
Lane Configurations		4.	a th		d'b	
Traffic Volume (vph)	37	0	491	39	165	1249 1990
Future Volume (vph)	37	0	491	39	165	Correction of the State
Turn Type	Perm	NA	NA	Perm	NA	
Protected Phases		8	2		6	4
Permitted Phases	8			6		
Detector Phase	8	8	2	6	6	
Switch Phase						
Minimum Initial (s)	7.0	7.0	15.0	15.0	15.0	7.0
Minimum Split (s)	33.0	33.0	24.0	24.0	24.0	33.0
Total Split (s)	33.0	33.0	47.0	47.0	47.0	33.0
Total Split (%)	41.3%	41.3%	58.8%	58.8%	58.8%	41%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)		0.0	0.0	1000 A 4500 A 100	0.0	
Total Lost Time (s)		6.0	6.0		6.0	
Lead/Lag			27.117		7.0 T	
Lead-Lag Optimize?						
Recall Mode	None	None	C-Min	C-Min	C-Min	None
Act Effct Green (s)		7.7	64.1		64.1	No. of Contraction
Actuated g/C Ratio		0.10	0.80		0.80	
v/c Ratio		0.37	0.20		0.09	
Control Delay		23.0	0.8		2.7	
Queue Delay		0.0	0.0		0.0	
Total Delay		23.0	0.8		2.7	and the same full start in the
LOS		С	А		A	No. A Cores
Approach Delay		23.0	0.8		2.7	
Approach LOS		С	А		A	
Intersection Summary				A A NA		
Cycle Length: 80	and the second		Care Service	Section Section	STATISTICS.	
Actuated Cycle Length: 80					and a set of the bollow	
Offset: 42 (53%), Referenced	to phase	2:NBTI	and 6:SB	TL. Start	of Yellow	
Natural Cycle: 60	- in prices			, a, ount	0.10101	and the second second
Control Type: Actuated-Coor	dinated					Construction of the operation of
Maximum v/c Ratio: 0.37	an iono o				The State of the	and an an an and
Intersection Signal Delay: 3 (1		Supplements	Ir	tersection	1 OS A
Intersection Canacity Utilizati	ion 49 5%		-	10		of Service A
Analysis Period (min) 15				NO 25 S		
and poor oned (min) to		2 8000		Contraction of the second		

Splits and Phases: 2: Washington Ave & 20 St

≪¶ø2 (R)	
47 s	33 8
Ø6 (R)	₩ Ø8
47 s	SS & Construction (Martine Construction of the Article Construction)

Queues 2: Washington Ave & 20 St

	+	Ť	ŧ
Lane Group	WBT	NBT	SBT
Lane Group Flow (vph)	64	543	213
v/c Ratio	0.37	0.20	0.09
Control Delay	23.0	0.8	2.7
Queue Delay	0.0	0.0	0.0
Total Delay	23.0	0.8	2.7
Queue Length 50th (ft)	11	6	11
Queue Length 95th (ft)	46	10	22
Internal Link Dist (ft)	262	492	315
Turn Bay Length (ft)			
Base Capacity (vph)	503	2783	2298
Starvation Cap Reductn	0	0	0
Spillback Cap Reductn	0	0	0
Storage Cap Reductn	0	0	0
Reduced v/c Ratio	0.13	0.20	0.09
Intersection Summary			

Intersection				- Same and		
Int Delay, s/veh	4.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		Â	î.		W	
Traffic Vol. veh/h	36	48	40	44	41	39
Future Vol. veh/h	36	48	40	44	41	39
Conflicting Peds #/hr	3	0	0	3	0	0
Sign Control	Free	Free	Free	Free	Ston	Ston
RT Channelized	-	None	1100	None	otop	None
Storage Length	_	-	-	-	0	None
Veh in Median Storage	. # _	0	0	78800	0	Sale filling
Grade %	,π -	0	0		0	-
Dook Hour Fantor	00	0	00		00	-
Peak nour Factor	00	00	00	00	00	00
neavy venicles, %	2	2	2	2	2	2
WWITE FIOW	41	55	45	50	4/	44
Major/Minor	Major1		Major2		Minor?	Contra-
Conflicting Flow All	98	0		n	210	73
Stare 1	30	U	STR. SS	U	72	15
Stage 2					127	
Critical Hdury	1 10			-	6.40	6.00
Critical Howy	4.12			-	0.42	0.22
Onlical Howy Stg 1	-	HT CALL AND	•	-	5.42	-
Chucal Howy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	•	-	3.518	3.318
Pot Cap-1 Maneuver	1495	1	-	-	778	989
Stage 1	-	-	(*).	-	950	-
Stage 2	-	-	•	-	890	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1491	-	-	-	752	986
Mov Cap-2 Maneuver	-	-		-	752	-
Stage 1	-	-	-	-	921	-
Stage 2	-	-	-	-	887	-
			AND NO.	Service Se	507	
Approach	EB		WB		SB	
HCM Control Delay, s	3.2		0		9.7	1
HCM LOS					Α	
		- 200				
Maralandal	.1	EDI	COT	MOT	Mar	0.01
Minor Lane/Major Mvm	u	EBL	FRI	WBI	WBR	SBLn1
Capacity (veh/h)		1491	-	-		850
HCM Lane V/C Ratio	the second second second	0.027	-	-	-	0.107
HCM Control Delay (s)		7.5	0	-	÷.	9.7
HCM Lane LOS		A	А			A
HCM 95th %tile Q(veh))	0.1	-	-	-	0.4

The second se		
Intersection		
Intersection Delay, s/veh	7.8	
Intersection LOS	А	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			\$			\$			\$	
Traffic Vol, veh/h	7	55	6	4	42	18	21	20	34	27	56	4
Future Vol, veh/h	7	55	6	4	42	18	21	20	34	27	56	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	3	3	3	3	3	3	3	3	3	3	3	3
Mvmt Flow	8	61	7	4	47	20	23	22	38	30	62	4
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB		Life Share	WB			NB	ene talle		SB		
Opposing Approach	WB			EB		_	SB			NB		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SB			NB			EB			WB		
Conflicting Lanes Left	1			1		and a state	1			1		
Conflicting Approach Right	NB			SB			WB			EB		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	7.9			7.7			7.6			8		
HCM LOS	А			А			А			А		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	28%	10%	6%	31%	
Vol Thru, %	27%	81%	66%	64%	
Vol Right, %	45%	9%	28%	5%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	75	68	64	87	
LT Vol	21	7	4	27	
Through Vol	20	55	42	56	
RT Vol	34	6	18	4	
Lane Flow Rate	83	76	71	97	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.097	0.092	0.085	0.119	
Departure Headway (Hd)	4.172	4.399	4.282	4.416	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Сар	862	817	839	817	
Service Time	2.185	2.414	2.296	2.416	
HCM Lane V/C Ratio	0.096	0.093	0.085	0.119	
HCM Control Delay	7.6	7.9	7.7	8	
HCM Lane LOS	А	А	А	А	
HCM 95th-tile Q	0.3	0.3	0.3	0.4	

Intersection						
Int Delay, s/veh	4.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		é	ĥ		Y	
Traffic Vol, veh/h	30	41	38	31	19	55
Future Vol, veh/h	30	41	38	31	19	55
Conflicting Peds, #/hr	1	0	0	1	0	9
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None		None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	33	45	42	34	21	60
Major/Minor	Major1	N	Major2		Minor2	
Conflicting Flow All	77	0	-	0	171	69
Stage 1	-	-	-	-	60	-
Stage 2	-	-	-	-	111	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	5 4 7	-	-	~	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1522	-	-	-	819	994
Stage 1	-	-	-	-	963	-

Cilical Huwy Sty Z		14.54	-		0.42		
Follow-up Hdwy	2.218	-	•	-	3.518	3.318	
Pot Cap-1 Maneuver	1522	-	-	-	819	994	
Stage 1	-	-		-	963	-	
Stage 2	-	S3		-	914	-	
Platoon blocked, %		9 -	-	-			
Mov Cap-1 Maneuver	1521	-		-	799	985	
Mov Cap-2 Maneuver	-	4	4	-	799	-	
Stage 1	-	-	-	-	941	-	
Stage 2		-	•	-	913		
THE REAL PLANE.					Sar .		
Approach	EB		WB		SB		
HCM Control Delay, s	3.1	1	0		9.2		

HCM LOS				А		
		In the second				
Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SI	BLn1	
Capacity (veh/h)	1521			-	929	
HCM Lane V/C Ratio	0.022	÷.	-	- (0.088	
HCM Control Delay (s)	7.4	0		- 10 M	9.2	
HCM Lane LOS	А	А	-	-	A	
HCM 95th %tile Q(veh)	0.1	-	- 11	-	0.3	

Intersection													The second second	7.
Int Delay, s/veh	7.9													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations		4			\$			4			4			
Traffic Vol, veh/h	8	87	12	27	43	12	2	27	18	18	20	6		
Future Vol, veh/h	8	87	12	27	43	12	2	27	18	18	20	6		
Conflicting Peds, #/hr	25	0	60	60	0	25	2	0	16	16	0	2		
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free		-
RT Channelized	-		None	- 18	-	None	-	-	None	-	-	None		
Storage Length	-	-	-	-	-			-	-		(1 .	-		
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-		
Grade, %	-	0	-	-	0	-	-	0		-	0	-		
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86		
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2		
Mvmt Flow	9	101	14	31	50	14	2	31	21	21	23	7		
								and the second						

Major/Minor	Minor2	-1		Minor1			Major1		27/2- 	Major2			
Conflicting Flow All	174	143	89	248	136	83	32	0	0	68	0	0	
Stage 1	71	71	-	62	62	-	-	-	-	-	-	-	and the second second second
Stage 2	103	72	-	186	74	-	-	-	-	-	-		
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	12	-	121	-	120	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218		-	
Pot Cap-1 Maneuver	789	748	969	706	755	976	1580	-	-	1533	-	-	
Stage 1	939	836	-	949	843	-	-	-	-	-	-	-	
Stage 2	903	835	-	816	833	-	-		-	-		-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	709	724	912	570	731	938	1577	-		1510		-	
Mov Cap-2 Maneuver	709	724	-	570	731	-	-	-	-	-	-	-	
Stage 1	936	823	-	934	830	-	-	-	-	-	-	-	
Stage 2	815	822	-	655	820	-	-	-	-	· • ·	7 .	-	
Approach	FB			WB			NR			SB			

Approach	ED	WB	INB	SB	
HCM Control Delay, s	10.8	11.1	0.3	3	
HCM LOS	В	В	,		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1577	-	-	740	689	1510	-	-
HCM Lane V/C Ratio	0.001	12	-	0.168	0.138	0.014	-	-
HCM Control Delay (s)	7.3	0		10.8	11.1	7.4	0	-
HCM Lane LOS	А	А		В	В	А	А	-
HCM 95th %tile Q(veh)	0	-	-	0.6	0.5	0	-	-

Appendix 7: Valet Operations

Table: A5

Park Hotel

Valet Queuing

Statistical Queuing Analysis - Summary

Sec.			(M/M/1 Model)						
Valet Services									
PM Peak	Valet Operation	Valet ⊤rips	Average Queue Length (veh)	Probability Vehicle (n) being less than Maximum of 2 Vehicles Queuing					
Wookday	Drop-Off	28	0.25	94.1%					
Weekuay	Pick-Up	20	0.11	97.9%					

Estimated Service Rate	
Drag Off Vahiala (Darking	Time (s)
Drop-Off Venicle / Parking	PM Peak
Drop-Off Veh. / Get Ticket	40
Travel N Park Ave	5
Delay NBR 20 St	7.6
Travel E on 20 St	5
EBT delay at Liberty Ave	10.8
EBL at Parking Garage Driveway	5
Delay To Park Vehicle	15
Back to Service Station	60
Total	148.4
Rick-Up Vehicle / Retrieval	Time (s)
Pick-op venicie / Retrieval	PM Peak
Attendant: Service Station to Parking	60
Drive-out parking slot & site	15
Delay WBL Liberty Ave	11.1
Travel S on Liberty Ave	5
Delay SBR on 19 St	9.2
Travel W on 19 St	5
Delay WBR Park Ave	0.0
Pick-up processing	40.0
Total	145.3

Park Hotel

Valet Queuing Analysis - Drop-Off Area (WEEKDAY)

PM Peak (Drop-O	ff Vehicle) - Statis	tical Que	euing Analy	SIS (M/M/1 Model)
N= 1 (number of lanes)	Eqn:	3.00		
Arrival Rate: λ	λ	0.47 ve	ehicles/minute	28 veh/hour
Service Rate: µ	μ	1.20 ve	ehicles/minute	150 seconds/veh
Utilization Factor: $\rho = \lambda/\mu$	ρ=λ/μ	0.39		
Average Queue length: Qbar	E(m)=λ^2/μ(μ-λ)	0.25		
Average Time in Queue: Wbar	E(w)=λ/μ(μ-λ)	0.53		
Average Time in System: Tbar	ρ+E(w)	0.92		
Probability of Veh in System: Po=	Po=P(n)=p^n(1-p)	0.61		
Average # in System: L=	E(n)=λ/(μ-λ)	0.64		
Average # in Queu: Lq=	E(m)=λ^2/μ(μ-λ)	0.25		
Expected Wait Time in System: W=	$F(y)=1/(y-\lambda)$	1 36		
Expected Wait Time in Queue: Wq=	Ε(w)=λ/μ(μ-λ)	0.53		
Probability of Vehicle (n) in system:	n	exactly n	less than n	greater than n
	0	61.1%	61.1%	38.9%
	1	23.8%	84.9%	15.1%
Maximum of 2 Vehicles Queuing	2	9.2%	94.1%	5.9%

Park Hotel

Valet Queuing Analysis - Drop-Off Area (WEEKDAY)

PM Peak (Pick-Up Vehicle) - Statistical Queuing Analysis (M/M/1 Model)

N= 1 (number of lanes)	Eqn:	3.00		
Arrival Rate: λ	λ	0.33 ve	ehicles/minute	20 veh/hour
Service Rate: µ	μ	1.20 ve	ehicles/minute	150 seconds/veh
Utilization Factor: $\rho = \lambda/\mu$	ρ=λ/μ	0.28		
Average Queue length: Qbar	E(m)=λ^2/μ(μ-λ)	0.11		
Average Time in Queue: Wbar	E(w)=λ/μ(μ-λ)	0.32		
Average Time in System: Tbar	p+E(w)	0.60		
Probability of Veh in System: Po=	Po=P(n)=ρ^n(1-ρ)	0.72		
Average # in System: L=	E(n)=λ/(μ-λ)	0.38		
Average # in Queu: Lq=	E(m)=λ^2/μ(μ-λ)	0.11		
Expected Wait Time in System: W=	E(v)=1/(μ-λ)	1.15		
Expected Wait Time in Queue: Wq=	E(w)=λ/μ(μ-λ)	0.32		
Probability of Vehicle (n) in system:	n	exactly n	less than n	greater than n
	0	72.2%	72.2%	27.8%
	1	20.1%	92.3%	7.7%
Maximum of 2 Vehicles Queuing	2	5.6%	97.9%	2.1%

Appendix 8: Site Plan & Transportation Demand Management Plan



HPB18-0252

HPB18-0252



December 21st, 2018

Transportation Demand Management Plan

Park Hotel, LLC recognizes the need to minimize the single occupant Auto-Trip-Based mode of transportation in Miami Beach. As such, we will promote the use of various alternative modes available to this site and encourage both Management and Staff towards the City's effort to alleviate traffic congestion.

With said objective in mind, we will implement the following TDM Program:

- Designate EDEL LIMA as the <u>Employee Transportation Coordinator</u>, under which
 responsibility he will provide all Staff with available information on ridesharing and
 biking alternatives to commute to/from the workplace. Additionally, he will
 coordinate the implementation of a car pooling program between employees.
- Bike Racks: the company will provide a 16 units bike rack for the use of the Managers and/or Employees that decide to use this alternative transportation.
- Employees Lockers & Bathroom facility will be provided for this same objective.
- Bicycles: The company will provide non-interest bearing loans to all Employees towards the purchase of a bicycle, with an individual cap of \$100
- Carpooling: The company will provide a 50% for those Employees that Carpool on their commute to/from the workplace (2+ employees per car).
- Communication: The Park Hotel will showcase all "ridesharing" services, such as Uber, Lyft, Car2Go in its corporate communication, including its web page, social media, brochures and Front Desk banners.
- Telecommuting: Park Hotel, LLC will allow Management to work from home one or more days a week when operations allow to do so.

The Park Hotel will employ around 15 to 20 full time & part time Employees on a 5 daily Shifts basis.

Signature

3)21

EDEL LIMA BLUE ROAD LLC OWNER REPRESENTATIVE EDELLIMA@BUSLAM.COM 786-925-3988