1685 Washington Avenue OPERATIONS PLAN

A. Number of Employees per Shift

AM Shift - Total of 15 associates

- 8 housekeepers
- 2 houseman
- 1-2 laundry attendants for offsite transfer
- 2 front desk associate
- 1 engineer

PM Shift - Total of 3 Associates

- 1 houseman/Laundry
- 2 front desk associate

Overnight Shift - Total of 3 Associates

- 1 houseman/security
- 1 front desk associate
- 1 night audit/front desk support

B. Employee Parking Plan / Transportation Demand Management (TDM) Plan

- 1. As contemplated by Policy 5.5 of the Transportation Element of the City of Miami Beach 2025 Comprehensive Plan, the owner shall provide a bicycle parking area on the property to serve guests and employees.
- 2. The owner shall offer a program to hotel employees to either obtain monthly passes from Miami-Dade Transit to allow employees to travel to and from the property without the need for automobiles, or provide an option for monthly City of Miami Beach parking garage passes (at each employee's option).

- 3. The owner shall offer hotel employees, who have been employed for at least ninety (90) days, financial assistance of up to \$100 to cover the cost of purchasing a bicycle to travel to and from work.
- 4. The owner shall appoint one employee of the hotel to serve as the Transportation Demand Management (TDM) Program Administrator, whose duties will include encouraging and facilitating employees' use of mass transit or bicycles for travel to work.
- 5. Bicycle Racks shall be provided on site for us by hotel guests and employees.
- 6. Guest shall be encouraged to use ride sharing transportation modes such as Uber or Lyft. As such, the hotel shall provide guests with an Uber Discount Code to encourage and facilitate the use of these services for first time uses.
- 7. Guests shall be provided with promo codes for Citi Bike. Citi Bike currently has two (2) stations in close proximity to the property. We will work with Citi Bike to create a future station at our block.

C. Parking Plan

- 1. Valet parking will be offered for all hotel guests.
- 2. Mechanical Parking will be used for the valet operation.
- 3. Self-parking shall be available only to customers of the accessory bank use.

D. Pool Deck / Bar / Restaurant

- 1. Food and drink shall be served throughout the day.
- 2. Alcohol shall be served at all hours when pool is open.
- 3. The pool deck bar will be open to hotel guests and their invitees.
- 4. The pool will be open from 7:00 am to 10:00 pm.
- 5. The property will include two full service restaurants.
- 6. The hours of the two restaurants are proposed from 6:00 am to 1:00 am and shall be open for breakfast, lunch and dinner.
- 7. There is no proposed entertainment at the restaurants.
- 8. Outdoor speakers will be used in the rooftop pool area, but will be limited to ambient background music.

- 9. The two restaurants will be open to the general public, not only guests of the hotel.
- 10. The Applicant has not determined the branding of the restaurants, as it still in the preliminary stages, so there is no sample menu available.
- 11. Off-Street Parking for the restaurants will be valet only.
- 12. A shuttle service shall be provided and maintained as long as the hotel use and restaurant uses exist

E. Laundry

1. No laundry will be done on site. Laundry will be outsourced to an off-site vendor.

F. Delivery Schedule

All deliveries shall occur through the designated off-street delivery area proposed within the interior of the property. Additionally, trash pickup will also occur internally within the property, as noted on the plans.

Type of Delivery	Day of Week	Time of Day	
Laundry	7 days per week	6:30 am to 8:00 am	
Waste/Trash pickup	7 days per week	Morning	
Beverage	1 day per week	7:00am to 8:00 am	
Food Products	3 days per week	7:00 am to 8:00 am	

G. Security Plan

- 1. Cameras will be provided throughout the hotel in order to assist with security.
- 2. Hotel staff or security personnel will be available at all times 24/7 to provide security and address guest concerns.
- 3. During high occupancy of the hotel, additional security may be provided.
- 4. During the evening hours when the restaurants are open, additional personnel will be provided depending on expected occupancy of each event.



Memorandum

To: Firat Akcay

City of Miami Beach

Cc: Josiel Ferrer, E.I.

City of Miami Beach

From: Adrian K. Dabkowski, P.E., PTOE 👭

AK

Date: April 26, 2018

Subject: 1685 Washington Avenue Response to Comments

We have received comments provided by the City of Miami Beach dated April 23, 2018. We offer the following responses:

1. The site proposes a left-in/right-in driveway at 17th street. However, the driveway will be located across the existing left turn lane onto Washington Avenue. The left-in movement onto the site will conflict with the existing left turn lane; therefore, please considered restricting the driveway to a right-in only.

Response: Note that the current access to the site includes both a left-in and a right-in from 17th Street. Additionally, crash data was pulled for the project driveway using Signal-Four Analytics. Only one (1) crash (rear-end) attributed to the driveway configuration occurred between 2012 to 2017. Furthermore, the expected future total left-turn volume is 18 which is less than one (1) vehicle every three (3) minutes. Finally, it is unclear how to physically restrict left-turn traffic. Therefore, we respectfully request that the driveway remain with both left-in and right-in access as it is in existing conditions.

2. The study calculated an area wide growth rate, however, this methodology seems to underestimate the growth rate for the north/south roads. Based on the FDOT growth rate summary provided in the appendix, both Collins Avenue and Washington Avenue have growth rates around 3%. Please consider using a growth rate for the north/south roads and one for the east/west roads.

Response: Note that it is not only unrealistic to apply different growth rates to intersection approaches in an urban core area when the CBD factor is applied to the network but it does not coincide with the travel demand model growth from the SERPM model that nearly matches the results of the FDOT areawide growth rates. However, in an effort to expediate the approval of this project, a 2.85 percent growth rate was applied to the north/south roadways and a 0.50 percent growth rate was applied to the east/west roadways. Note that the traffic study results and conclusions do not change. The updated traffic study is contained in Attachment A.



3. The trips from the committed developments were carried through to the intersection of Collins Avenue and 17th street and then they were assigned to/from the eastbound through and westbound through movements. However, 17th street east of Collins Avenue is a very short segment of roadway that serves the adjacent hotels. Please redistribute these trips to turn right/left onto Collins Avenue.

Response: The committed development distribution was revised to proportionality reflect the eastbound approach volumes. Note that the revision does not change the analysis results nor conclusions. The updated traffic study is contained in Attachment A.

4. Please review the calculations using the latest version of the ITE Trip Generation Manual.

Response: The traffic study and valet analysis were updated for the ITE's Trip Generation Manual, 10th Edition. The redevelopment generates an additional 13 P.M. peak hour trips. Note that the results of the analysis nor conclusions change. The updated traffic study is contained in Attachment A and the updated valet analysis is contained in Attachment B.

5. The study used a multimodal reduction of 31.7%. Please note that for the study area, the City will accept a 20% reduction.

Response: The purpose of traffic study methodology meetings and correspondence is to establish the requirements of the traffic study, including trip generation factors, prior to initiating the study. Establishment of trip generation factors is a critical component to the traffic study as this significantly impacts the trip assignment, intersection capacity analysis, and valet analysis. The City never commented on the 31.7 percent multimodal factor presented in the methodology. However, in an effort to expediate the approval of this project the multimodal factor was revised to 20.0 percent.

The redevelopment generates an additional 13 P.M. peak hour trips. Note that the results of the analysis nor conclusions change. The updated traffic study is contained in Attachment A and the updated valet analysis is contained in Attachment B.

6. The study used a 42.6% taxi/rideshare trip reduction for the valet analysis. The reduction should not be applied to the retail trips. The supportive documentation presented in the appendix indicates that the site didn't include retail.

Response: The retail generates a total of 19 trips. However, in an effort to expediate the approval of all retail trips are assumed to be valeted. Note that the intersection capacity analyses were not changed. Note that nine (9) valet attendants may be required during peak times. The updated traffic study is contained in Attachment A and the updated valet analysis is contained in Attachment B.

7. Pass-by distribution – no pass by distribution was assigned to/from Washington Avenue.



Response: The pass-by distribution was revised based on the portion of through traffic at the intersection of Washington Avenue and 17th Street. Note that the results of the analysis nor conclusions change. The updated traffic study is included in Attachment A.

8. Please review the text to indicate that three scenarios were analyzed (not four).

Response: The report was modified accordingly. The updated report is contained in Attachment A.

- 9. Synchro models
 - a. Please mark the adjacent parking when present
 - b. Please mark the area as a CDB
 - c. Please review the signal timing inputs for the intersection of Collins Avenue at 17th street and for Washington Avenue at 17th Street.

Response: Synchro files were updated to include adjacent parking lanes and the CBD area. Note that signal timings were reviewed and found to be current. Note that the results of the analysis nor conclusions change. The updated traffic study is contained in Attachment A.

10. Please confirm that delivery vans, comparable to P vehicles will be adequate for all deliveries/loading activities and that larger vehicles will not be needed.

Response: Confirmed.

Note that an updated maneuverability analysis is contained in Attachment C. We trust that these responses adequately address the comments provided. Please contact us should you have questions.

 $K: FTL_TPTO \ 043896000-1685\ Washington\ Avenue \ Correspondence \ memo \ Response\ to\ City\ Comments\ -\ Traffic\ Study\ . docx$

Attachment AUpdated Traffic Study

Traffic Impact Analysis
For Submittal to the
City of Miami Beach

1685 Washington Avenue Miami Beach, Florida



© 2018 Kimley-Horn and Associates, Inc. Updated April 2018 April 2018 043896000 Traffic Impact Analysis for Submittal to the City of Miami Beach

1685 Washington Avenue Miami Beach, Florida

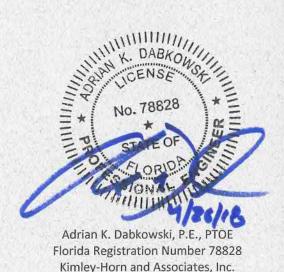
Prepared for:

Sobe Center, LLC Miami, Florida

Prepared by:

Kimley-Horn and Associates, Inc.

Kimley >>> Horn
©2018 Kimley-Horn and Associates, Inc.
April 2018
043896000



600 North Pine Island Road, Suite 450

Plantation, Florida 33324

CA # 00000696



EXECUTIVE SUMMARY

Sobe Center, LLC is proposing to redevelop the property located in the southeast quadrant at the intersection of 17th Street and Washington Avenue in Miami Beach, Florida. The existing land use includes a 6,644 square-foot drive-in bank. The proposed redevelopment consists of a 150-room hotel, 2,023 square feet of retail space, a 4,000 square-foot walk-in bank, and 295 total restaurant seats with 145 seats located on the ground floor (5,258 square feet) and 150 seats located on the rooftop level (2,156 indoor square feet and 2,244 exterior square feet). The project is expected to be completed and opened by year 2020.

A traffic impact analysis was conducted for the project. Trip generation for the existing and proposed redevelopment was calculated using equations contained in the Institute of Transportation Engineers' (ITE's) *Trip Generation Manual,* 10th Edition. The project is expected to generate 54 net new vehicle trips during the weekday P.M. peak hour.

On-site self-parking will be provided for the proposed walk-in bank. All other vehicles with the exception of taxis/shared-rides will be valeted on-site. The redevelopment will be served by one (1) on-site valet drop-off/pick-up area located just south of the project driveway along 17th Street. Please note that valet drop-off trips will be contained within the site, however, valet pick-up trips will exit the site along northbound Washington Avenue and travel eastbound along 17th Street to return vehicles to the on-site porte-cochere.

The results of the intersection capacity analysis indicate that the study intersections are expected to operate at adopted levels of service (LOS D+20% or better) during the P.M. peak hour under all analysis conditions with the exception of the southbound approach at the stop-controlled intersection of James Avenue and Lincoln Road which is expected to operate at LOS F under existing, future background, and future total conditions during the P.M. peak hour. Please note this result is common during peak periods where a high traffic volume free-flowing major street intersects with a stop-controlled minor street. Further note that the project assigns approximately 0.36 percent (0.36%) of the overall traffic volumes at this intersection



during the P.M. peak hour. As the project contributes less than 5 percent (5.0%) of traffic at this intersection, the project does not significantly or adversely impact this intersection.

Transportation Demand Management (TDM) strategies are proposed to reduce the impacts of the project traffic on the surrounding roadway network. Typical measures promote bicycling and walking, encourage car/vanpooling and offer alternatives to the typical workday hours. The applicant will commit to implementing the following strategies:

- The owner will provide the approximate 30 hotel employees with Miami-Dade Transit
 monthly transit passes to allow employees to travel to and from the property without
 the need of personal automobiles. The employees will also have the option of a monthly
 City of Miami Beach parking garage pass that will be provided by the owner.
- The owner will offer hotel employees who have been employed for at least ninety (90)
 days financial assistance of up to \$100 to cover the cost of purchasing a bicycle to travel
 to and from work.
- Bicycle racks (short-term parking) will be provided on-site. Twelve (12) bicycle racks will be provided in the garage and six (6) will be provided on-street.
- The owner will appoint one (1) hotel employee to serve as the TDM Program
 Administrator. This role will be to encourage and facilitate employees to use transit or
 bicycles for travel to work.
- Create an Employee Transportation Coordinator position to run TDM programs.
- Patron and guest rideshare will be encouraged to and from the site. The hotel will
 provide guests with an Uber promotional code to encourage and facilitate the use of
 these services for first time uses.
- Citi Bike usage will be encouraged. Hotel guests will be provided with promotional codes to receive discounts on bicycle sharing program.

Please note that three (3) Citi Bike stations with 16 bicycle docks each are located within the vicinity of the project site on the west side of Washington Avenue just north of 17th Street, on the south side of Lincoln Road just west of James Avenue, and on the south side of 17th Street just east of SR A1A/Collins Avenue.



TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
ANALYSIS PERIOD	3
EXISTING TRAFFIC	4
FUTURE BACKGROUND TRAFFIC	6
Background Area Growth	6
Committed Development	7
PROJECT TRAFFIC	9
Existing and Proposed Land Uses	9
Project Access	9
Trip Generation	9
Multimodal Reduction	10
Internal Capture	12
Pass-By Capture	12
Net New Project Trips	12
Trip Distribution and Assignment	13
FUTURE TOTAL TRAFFIC	21
INTERSECTION CAPACITY ANALYSIS	23
TRANSPORTATION DEMAND MANAGEMENT STRATEGIES	25
CONCLUSION	26



LIST OF FIGURES

		<u>Page</u>
Figure 1: Site Loc	ation Map	2
Figure 2: Existing	P.M. Peak Hour Traffic	5
Figure 3: Future	Background P.M. Peak Hour Traffic	8
Figure 4: P.M. Pe	ak Hour Net New Trip Distribution	15
Figure 5: P.M. Pe	ak Hour Pass-By Trip Distribution	16
Figure 6: Propose	ed P.M. Peak Hour Net New Valet Routing	17
Figure 7: P.M. Pe	ak Hour Net New Valet Trip Distribution	18
Figure 8: P.M. Pe	ak Hour Net New Project Trip Assignment	19
Figure 9: P.M. Pe	ak Hour Net New Valet Trip Assignment	20
Figure 10: Future	e Total P.M. Peak Hour Traffic	22
	LIST OF TABLES	Page
Table 1: Propose	d Net New Trip Generation	13
Table 2: Cardinal	Trip Distribution	14
Table 3: P.M. Pea	ak Hour Intersection Capacity Analysis	24
	LIST OF APPENDICES	
APPENDIX A:	Site Plan	
APPENDIX B:	Methodology Correspondence	
APPENDIX C:	Traffic Data	
APPENDIX D:	Growth Rate Calculations	
APPENDIX E:	Committed Developments	
APPENDIX F:	Trip Generation, Taxi Trip Data, and Transit Service Information	n
APPENDIX G:	Cardinal Trip Distribution	
APPENDIX H:	Volume Development Worksheets	
APPENDIX I:	Intersection Capacity Analysis Worksheets	

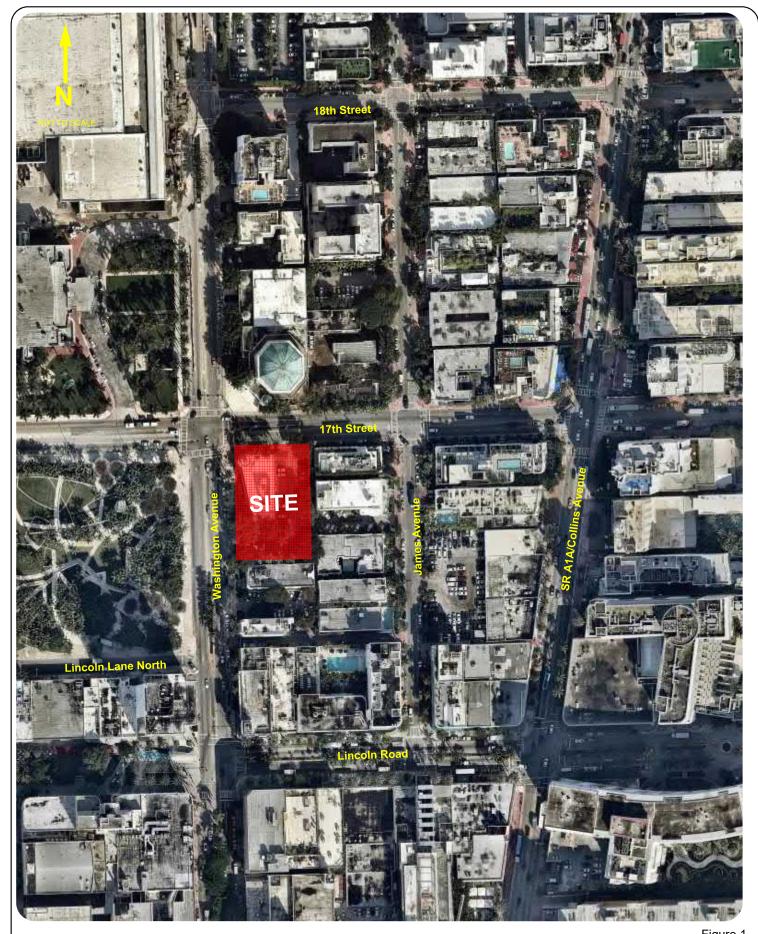


INTRODUCTION

Sobe Center, LLC is proposing to redevelop the property located in the southeast quadrant at the intersection of 17th Street and Washington Avenue in Miami Beach, Florida. The existing land use includes a 6,644 square-foot drive-in bank. The proposed redevelopment consists of a 150-room hotel, 2,023 square feet of retail space, a 4,000 square-foot walk-in bank, and 295 total restaurant seats with 145 seats located on the ground floor (5,258 square feet) and 150 seats located on the rooftop level (2,156 indoor square feet and 2,244 exterior square feet). The project is expected to be completed and opened by year 2020. A project location map is provided as Figure 1. A conceptual site plan is provided in Appendix A.

On-site self-parking will be provided for the proposed walk-in bank. All other vehicles will be valeted on-site with the exception of taxis and rideshare. The redevelopment will be served by one (1) on-site drop-off/pick-up area for valet, taxi, and rideshare located just south of the project driveway along 17th Street. Please note that valet drop-off trips will be contained within the site, however, valet pick-up trips will exit the site and travel northbound on Washington Avenue and eastbound on 17th Street to return vehicles to the on-site porte-cochere.

Kimley-Horn and Associates, Inc. has completed this traffic impact analysis for submittal to the City of Miami Beach. The purpose of the study is to assess the project's impact on the surrounding roadway network and determine if adequate capacity is available to support future traffic volumes. The study's methodology is consistent with the requirements of the City of Miami Beach. Methodology correspondence detailing the traffic study requirements is included in Appendix B. This report summarizes the data collection, project trip generation and distribution, and capacity analysis for the proposed redevelopment.







ANALYSIS PERIOD

The two (2) hour analysis period selected for this study was based on the three (3) 72-hour continuous traffic counts gathered from the *Miami Beach Light Rail Modern Streetcar Traffic Report,* February 2017. The 72-hour continuous traffic counts within the vicinity of the proposed redevelopment are located on 17th Street between Michigan Avenue and Jefferson Avenue, Convention Center Drive between 17th Street and Dade Boulevard, and Meridian Avenue between 17th Street and Dade Boulevard. The 72-hour counts were collected on Thursday, April 7, 2016, Friday, April 8, 2016, and Saturday, April 9, 2016. Based on the 72-hour continuous traffic counts, the analysis period was determined to be on Friday from 3:15 P.M. to 5:15 P.M. The 72-hour continuous counts are included in Appendix C.



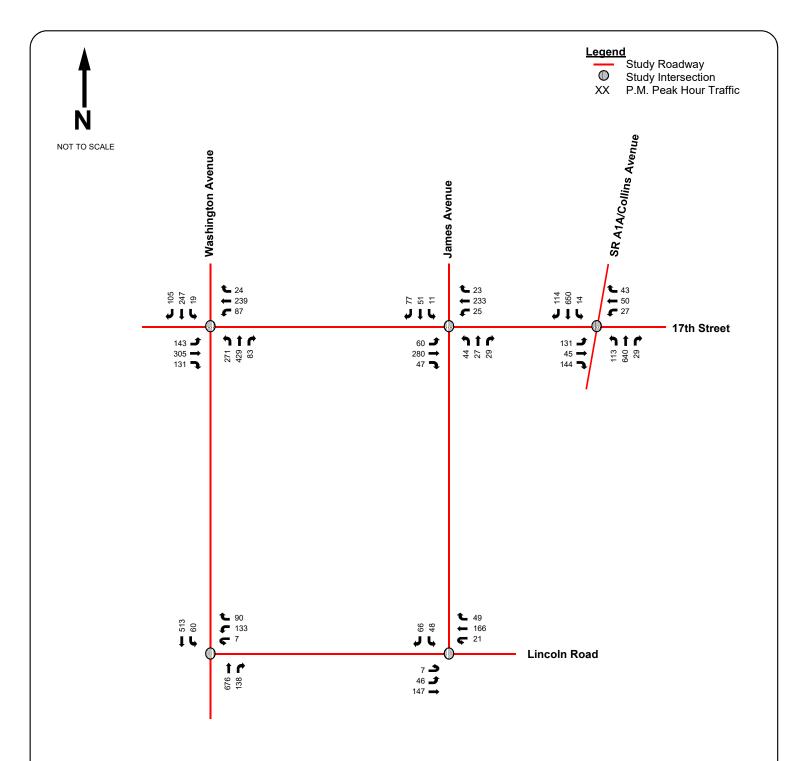
EXISTING TRAFFIC

P.M. peak period (3:15 P.M. to 5:15 P.M.) turning movement counts were collected on Friday, October 27, 2017 at the following intersections:

- 17th Street and Washington Avenue
- 17th Street and James Avenue
- 17th Street and SR A1A/Collins Avenue
- Lincoln Road and Washington Avenue
- Lincoln Road and James Avenue

The traffic volumes were collected in 15-minute intervals and the peak hour was determined for each intersection. City of Miami Beach peak season conversion factors were developed from Florida Department of Transportation (FDOT) data and were applied to the traffic counts to adjust the traffic to peak season volumes. The appropriate peak season conversion factor of 1.09 was applied to the collected turning movement counts.

Existing signal phasing and timing patterns were obtained from the Miami-Dade County Department of Transportation and Public Works – Traffic Signals and Signs Division for the signalized intersections required to be evaluated in this analysis. The turning movement counts, FDOT peak season factor category report, and signal timing data are included in Appendix C. Figure 2 presents the existing turning movement volumes at the study intersections during the P.M. peak hour.





April 2018

FUTURE BACKGROUND TRAFFIC

Future background traffic conditions are defined as expected traffic conditions on the roadway network in the year 2020 without the construction of the proposed redevelopment. Future background traffic volumes used in the analysis are the sum of the existing traffic and an additional amount of traffic generated by growth in the study area. Refer to Figure 3 for the 2020 peak hour background traffic volumes.

Background Area Growth

Future traffic growth on the transportation network was determined based upon (a) historic growth trends at nearby FDOT traffic count stations and (b) traffic volume comparisons from the year 2010 and 2040 Florida Standard Urban Transportation Model Structure (FSUTMS) - Southeast Florida Regional Planning Model (SERPM).

FDOT count stations referenced in this analysis include:

- Count Station #5170: SR A1A/Collins Avenue North of 21st Street
- Count Station #8414: Washington Avenue 200 feet north of 12th Street
- Count Station #8531: 17th Street 200 feet east of Meridian Avenue
- Count Station #8567: 16th Street 200 feet east of Meridian Avenue

The historic growth rate analysis, based on FDOT count stations examined linear, exponential, and decaying exponential growth rates for the most recent five (5) year and 10-year periods. The highest growth rate of 0.74 percent (0.74%) occurred during the most recent five (5) year period along with the highest R-squared value. Based on the forecasted volumes obtained from the 2010 and 2040 FSUTMS SERPM, an annual growth rate of 0.01 percent (0.01%) was calculated in the vicinity of the redevelopment.

However, at the City's request, different growth rates were calculated and applied for east/west roads and north/south roads using FDOT historical data. Calculations for East/West roads resulted in a negative growth rate, and therefore a conservative growth rate of 0.5



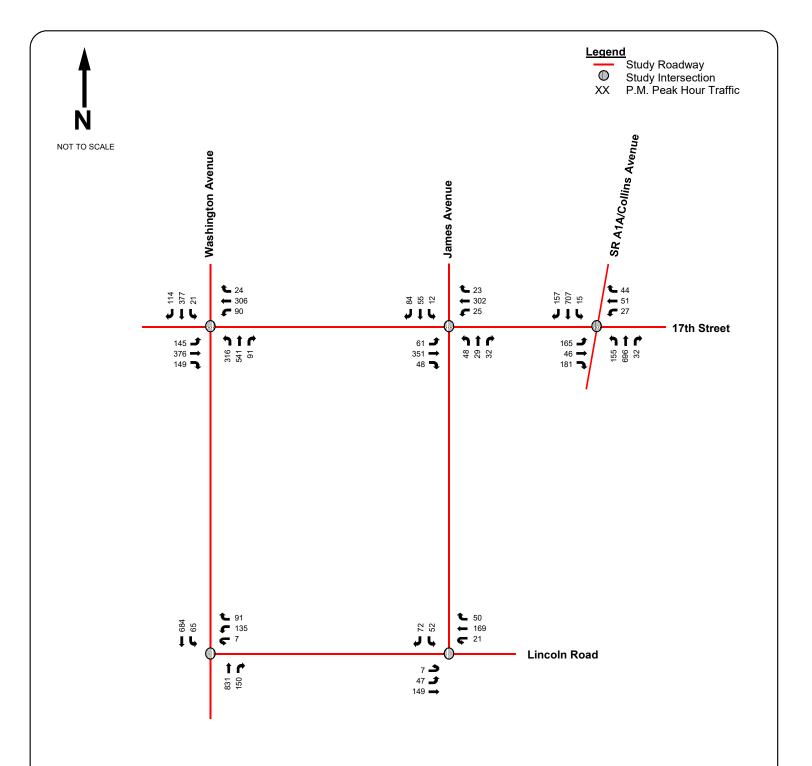
percent (0.5%) was applied. Calculations for north/south roads resulted in a growth rate of 2.85 percent (2.85%). The worksheets used to analyze the historic growth trends along with the FSUTMS transportation model outputs are included in Appendix D.

Committed Development

City of Miami Beach staff were contacted to determine the need to include approved but not yet completed in the vicinity of the project site in the analysis. The following committed developments were included as part of future background and future total conditions:

- 1600 Washington
- Miami Beach Convention Center
- Miami Beach Convention Center Hotel

Trip assignments for these developments are included in Appendix E.







PROJECT TRAFFIC

Project traffic used in this analysis is defined as the vehicle trips expected to be generated by the project and the distribution and assignment of that traffic over the study roadway network.

Existing and Proposed Land Uses

The property proposed for redevelopment is currently occupied by a 6,644 square-foot drive-in bank. The proposed redevelopment consists of 150-room hotel, 2,429 square feet of retail space, a 4,000 square-foot walk-in bank, and 295 total restaurant seats with 145 seats located on the ground floor (5,258 square feet) and 150 seats located on the rooftop level (2,156 indoor square feet and 2,244 exterior square feet). The project is expected to be completed by year 2020.

Project Access

Access to the proposed redevelopment will be provided by one (1) ingress left-in/right-in driveway along 17th Street between Washington Avenue and James Avenue and one (1) egress right-out only driveway along Washington Avenue between 17th Street and Lincoln Road. Onsite self-parking will be provided for the proposed walk-in bank. All other vehicles will be valeted on-site with the exception of taxis and rideshare. Please note that valet attendants will travel along northbound Washington Avenue and eastbound 17th Street to return vehicles to the on-site porte-cochere for valet pick-up.

Trip Generation

Trip generation calculations for the existing development and the proposed redevelopment were performed using Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 10th Edition. The trip generation for the existing development was determined using ITE Land Use Code (LUC) 912 (Drive-in Bank). The trip generation for the proposed redevelopment was determined using ITE LUC 310 (Hotel), 820 (Shopping Center), 911 (Walk-in Bank), and 931 (Quality Restaurant). Project trips were estimated for the weekday P.M. peak hour.

April 2018



Multimodal Reduction

A multimodal (public transit, bicycle, and pedestrian) factor of 31.7 percent (31.7%) was identified based on US Census *Means of Transportation to Work* data was for the census tract containing the proposed redevelopment. However, at the City's request, the multimodal factor was limited to 20.0 percent (20.0%). It is expected that residents and patrons will choose to walk or use public transit to and from the proposed redevelopment. Three (3) Citi Bike stations with 16 bicycle docks each are located within the vicinity of the project site on the west side of Washington Avenue just north of 17th Street, on the south side of Lincoln Road just west of James Avenue, and on the south side of 17th Street just east of SR A1A/Collins Avenue. Furthermore, Miami-Dade County Transit (MDT) provides bus service to and from the project area via seven (7) routes and the City of Miami Beach's Trolley provides service to and from the project area via three (3) routes:

- Route 103/Route C operates on 17th Street, Lincoln Road, Washington Avenue, and SR A1A/Collins Avenue within the vicinity of the project. This route serves Downtown (Miami) Bus Terminal, Main Library, Historical Museum of South Florida, Miami Art Museum, Government Center Metrorail station, Omni Metromover Station/Bus Terminal, City of Miami Beach via MacArthur Causeway, South Beach, Washington Avenue, Lincoln Road, Collins Avenue, 41st Street, Alton Road, and Mt. Sinai Hospital. This route operates with 30-minute headways during the P.M. peak hour and provides connecting service to 20 additional MDT bus routes, as well as the Metrorail.
- Route 112/Route L operates on Lincoln Road, Miami Beach Convention Center, Miami
 Beach Senior High School, 41st Street/Indian Creek Drive, JFK Causeway, Northside
 Metrorail station, Amtrak Terminal, and Hialeah Metrorail station. This route operates
 with 12-minute headways during the P.M. peak hour and provides connecting service to
 23 additional MDT bus routes, as well as the Metrorail.
- Route 113/Route M operates on 17th Street, Lincoln Road, Washington Avenue, and SR A1A/Collins Avenue within the vicinity of the project. This route serves NW 21st Street and NW 19th Avenue via NW 17th Avenue, NW 19th Avenue/NW 20th Street, Civic Center Metrorail station, University of Miami/Jackson Memorial hospitals and clinics, Cedars



Medical Center, VA Hospital, Omni Metromover Station/Bus Terminal, MacArthur Causeway, City of Miami Beach, South Beach, Lincoln Road, Collins Avenue/41st Street, and Mt. Sinai Hospital. This route operates with 45-minute headways during the P.M. peak hour and provides connecting service to 17 additional MDT bus routes, as well as the Metrorail.

- Route 115 operates on 17th Street, Lincoln Road, Washington Avenue, and James Avenue within the vicinity of the project. This route serves Harding Avenue/88th Street, Alton Road, Sheridan Avenue, Lincoln Road/Washington Avenue, Mt. Sinai Medical Center, and 17th Street/Washington Avenue. This route operates with 50-minute headways during the P.M. peak hour and provides connections to seven (7) additional MDT bus routes.
- Route 119/Route S operates on 17th Street, Lincoln Road, Washington Avenue, and SR A1A/Collins Avenue within the vicinity of the project. This route serves Downtown (Miami) Bus Terminal, Main Library, Historical Museum, Miami Art Museum, Government Center Metrorail station, Omni Bus Terminal, MacArthur Causeway, City of Miami Beach, South Beach, Lincoln Road, Collins Avenue, 192nd Street Causeway, City of Aventura, and Aventura Mall. This route operates with 15-minute headways during the P.M. peak hour and provides connecting service to 25 additional MDT bus routes, as well as the Metrorail.
- Route 120 Beach MAX operates on 17th Street, Lincoln Road, Washington Avenue, and SR A1A/Collins Avenue within the vicinity of the project. This route serves the Downtown Bus Terminal, Main Library, Historical Museum, Miami Art Museum, Government Center Metrorail station, Miami-Dade College Wolfson Campus, Omni Bus Terminal, MacArthur Causeway, City of Miami Beach, Collins Avenue, Town of Surfside, City of Bal Harbour, Haulover Park Marina, and Aventura Mall. This route operates with 12-minute headways during the P.M. peak hour and provides connecting service to 24 additional MDT bus routes, as well as the Metrorail.
- Route 150 Miami Beach Airport Express operates on 17th Street, Lincoln Road, Washington Avenue, and SR A1A/Collins Avenue within the vicinity of the project. This route serves Miami International Airport Metrorail Station, 41st Street, Alton Road, SR



A1A/Collins Avenue, Lincoln Road, and Washington Avenue. This route operates with 20-minute headways during the P.M. peak hour and provides connecting service to 10 additional MDT bus routes.

The Miami Beach Trolley South Beach Loop, Middle Beach Loop, and Collins Express
operate on 17th Street, Lincoln Road, Washington Avenue, SR A1A/Collins Avenue within
the vicinity of the project. These routes operate with between 10-minute to 20-minute
headways during the P.M. peak hour.

Detailed route information and headway data is provided in Appendix F.

Internal Capture

A portion of the trips generated by the redevelopment will be captured internally on the site. Internal capture rates were based upon values contained in ITE's, *Trip Generation Handbook*, 3rd Edition. The internal capture for the proposed redevelopment is expected to be 25.6 percent (25.6%) during the P.M. peak hour. Internal capture calculations are contained in Appendix F.

Pass-By Capture

Pass-by capture rates were determined based on average rates provided in ITE's *Trip Generation Handbook*, 3rd Edition. The pass-by rate used for the existing drive-in bank is 34.0 percent (34.0%) during the P.M. peak hour. The pass-by rate for the proposed restaurant is 44.0 percent (44.0%) during the P.M. peak hour.

Net New Project Trips

Net new project trips are equal to the gross project trips minus the multimodal reduction factor, internal capture, and pass-by capture. The net new project trips represent the additional vehicles on the roadway network. Table 2 summarizes the project's trip generation for the P.M. peak hour. As shown in Table 1, the redevelopment is expected to generate 54 net new vehicle trips during the P.M. peak hour. Detailed trip generation information is included in Appendix F.



Table 1: Proposed Net New Trip Generation						
P.M. Peak Hour						
			Entering	Exiting		
Future Land Use (ITE Code)	Scale	Net New External Trips	Trips	Trips		
Existing Development						
Drive-in Bank (912)	6,644 square feet	71	35	36		
Subtotal		71	35	36		
	Proposed Red	development				
Hotel (310)	150 rooms	62	31	31		
Shopping Center (820)	2,023 square feet	13	7	6		
Walk-in Bank (911)	4,000 square feet	26	14	12		
Quality Restaurant (931)	295 seats	25	18	6		
Subtotal		125	70	55		
	Net New Red	levelopment				
Net New Project Trips		54	35	19		
Total Project Trips						
Proposed Redevelopment Subtotal		151	88	63		
Walk-in Bank Self-Park Trips		26	14	12		
Retail Trips		19	10	9		
Proposed Hotels, Retail and Restaurant Vehicle Trips		106	64	42		
42.6% Taxi/Rideshare Trips ⁽¹⁾		45	27	18		
Proposed Valet Trips		80	47	33		

Note: (1) Based on data collected as part of the Cadillac Hotel redevelopment. Detailed data is provided in Appendix F.

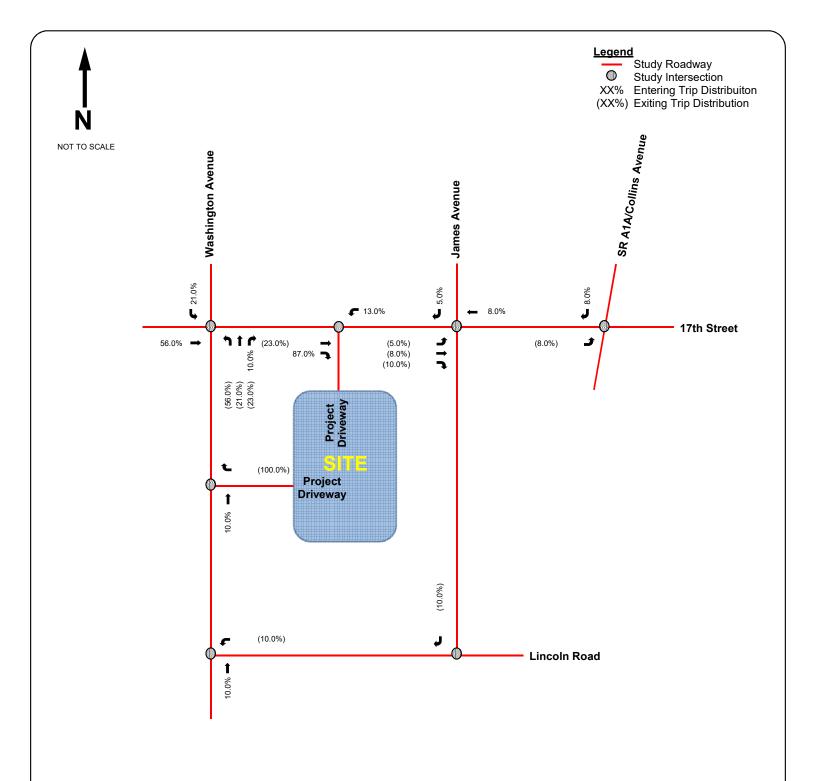
Trip Distribution and Assignment

The trip distribution was based on an interpolated cardinal trip distribution for the project site's traffic analysis zone (TAZ) obtained from the Miami-Dade Metropolitan Planning Organization's (MPO's) 2040 Long Range Transportation Plan Directional Trip Distribution Report. The project is located within TAZ 644. The cardinal distribution is shown in Table 2. Figure 4 presents the project's net new trip distribution for the P.M. peak hour and Figure 5 presents the project's net new pass-by trip distribution for the P.M. peak hour. Detailed cardinal distribution calculations are contained in Appendix G.

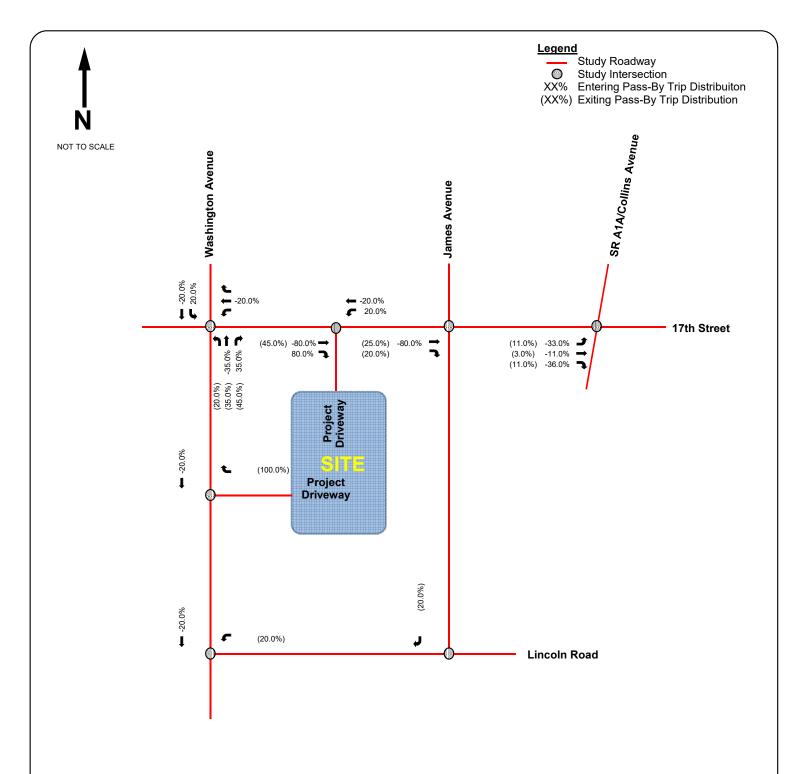


Table 2: Cardinal Trip Distribution		
Cardinal Direction	Percentage of Trips	
North-Northeast	13.0%	
East-Northeast	0.0%	
East-Southeast	0.0%	
South-Southeast	0.0%	
South-Southwest	10.0%	
West-Southwest	30.0%	
West-Northwest	26.0%	
North-Northwest	21.0%	
Total	100.0%	

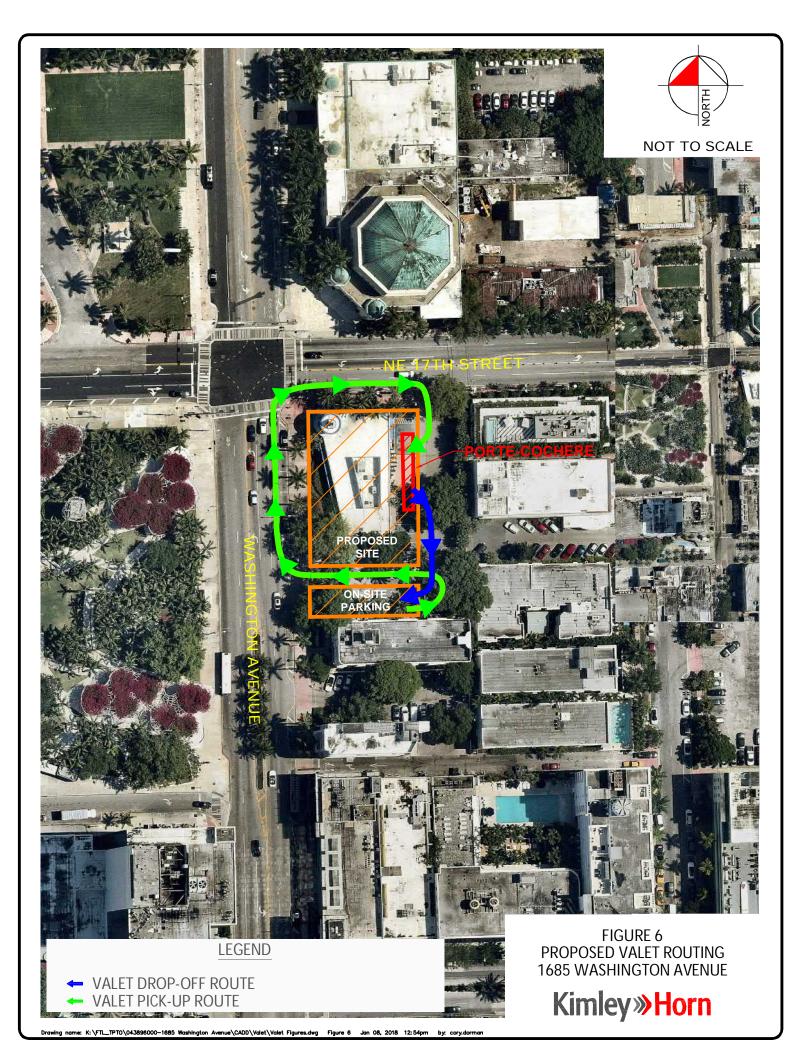
On-site self-parking will be provided for the proposed walk-in bank. All other vehicles will be valeted on-site with the exception of taxis and rideshare. The redevelopment will be served by one (1) on-site valet drop-off/pick-up area located just south of the project driveway along 17th Street. Please note that valet drop-off trips will be contained within the site, however, valet pick-up trips will exit the site onto northbound Washington Avenue and travel eastbound on 17th Street to return vehicles to the on-site porte-cochere. Figure 6 provides a graphic illustration of the proposed valet routes to/from the on-site parking garage and Figure 7 presents the project's net new valet trip distribution. Figure 8 presents the project's net new project trip assignment and Figure 9 presents the project's valet trip assignment for the P.M. peak hour.

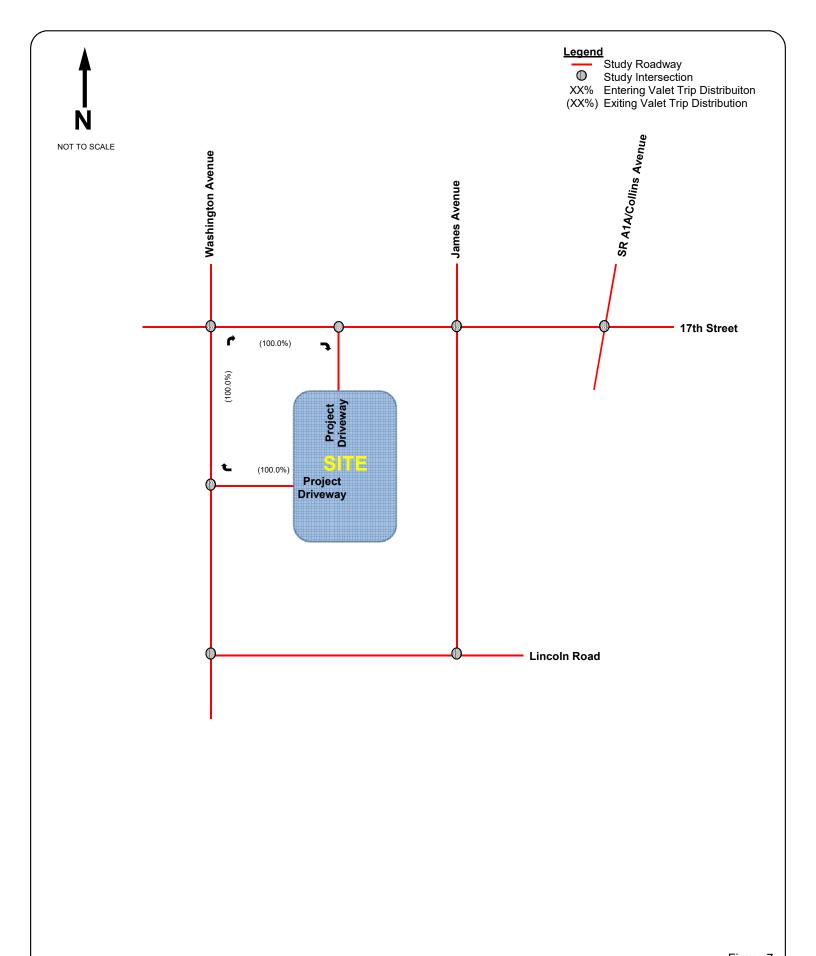




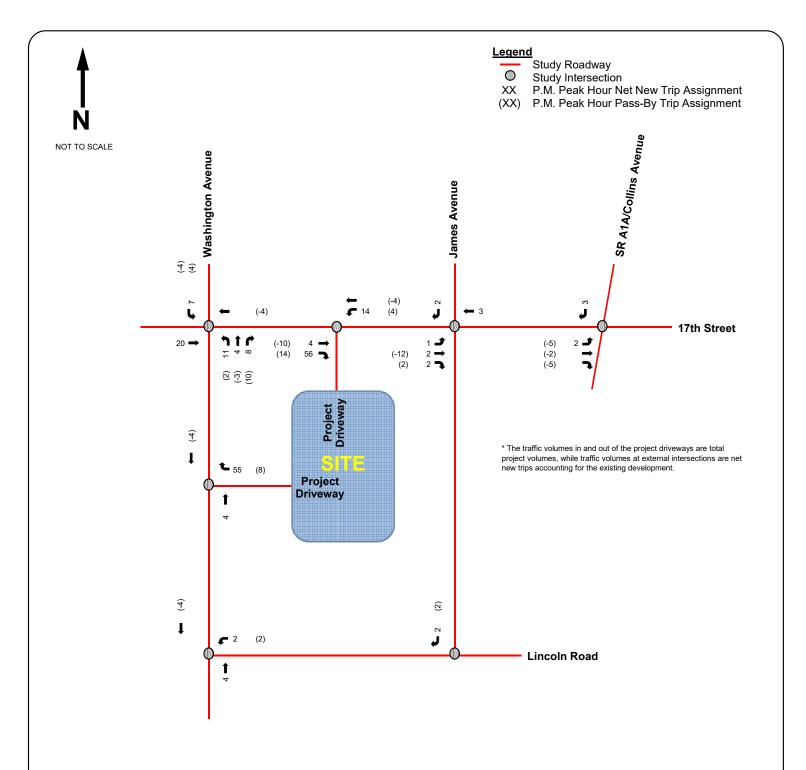




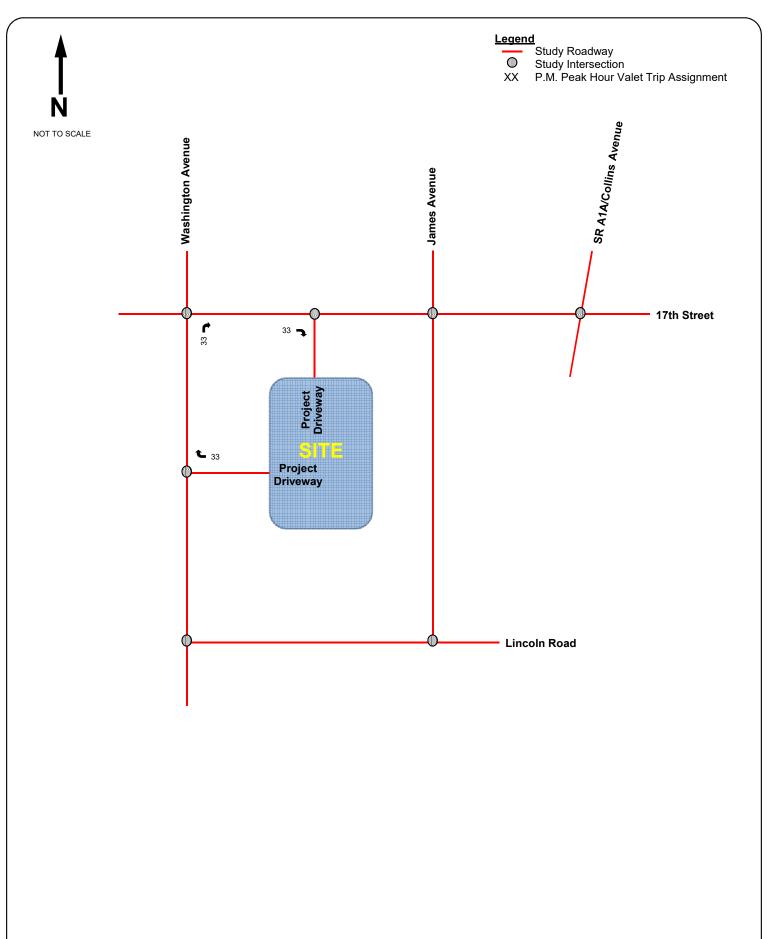










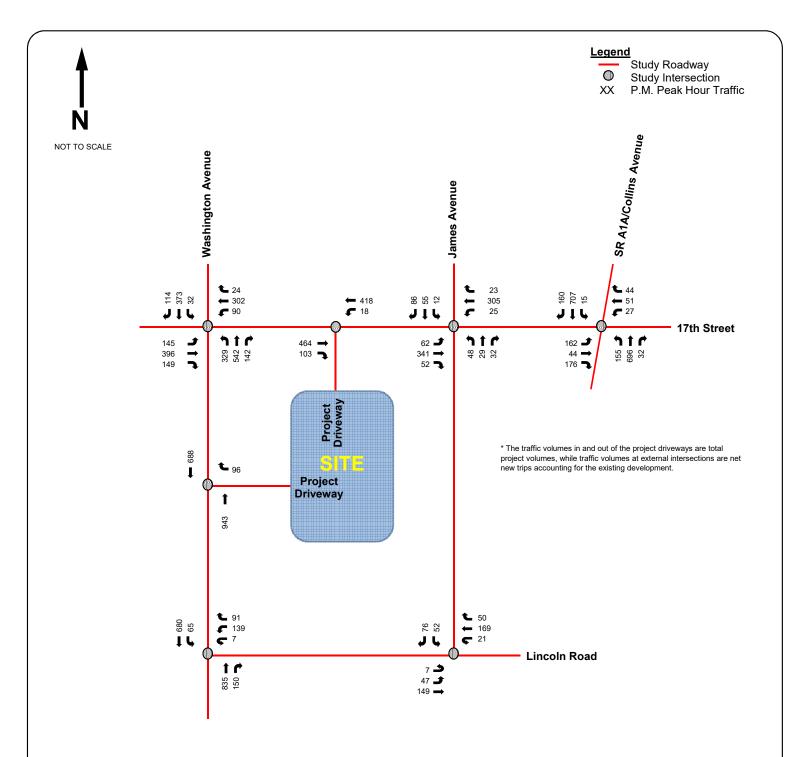






FUTURE TOTAL TRAFFIC

Future total traffic conditions are defined as the expected traffic conditions in the year 2020 after the opening of the project. Total traffic volumes considered in the analysis for this project are the sum of the background traffic volumes and expected project traffic volumes. The P.M. peak hour future traffic volumes are shown in Figure 7. Volume Development worksheets for the study intersections are included in Appendix H.







INTERSECTION CAPACITY ANALYSIS

The study area intersection operating conditions were analyzed for three (3) scenarios (existing conditions, future background conditions, and future total conditions) using Trafficware's *SYNCHRO 10.0* software, which applies methodologies outlined in the Transportation Research Board's (TRB's) *Highway Capacity Manual (HCM)*, 2000 and 2010 Editions. Synchro worksheets for the study intersections are included in Appendix I.

A summary of the intersection analyses for the P.M. peak hour is presented in Table 4. Please note that as mass transit service with headways of 20 minutes or less operates within 0.25 miles of the study area, LOS D+20% was utilized as the adopted level of service standard consistent with the City of Miami Beach's 2025 Comprehensive Plan. As Table 3 and Table 4 indicate, the study intersections are expected to operate at adopted levels of service (LOS D+20% or better) during the P.M. peak hour under all analysis conditions with the exception of the southbound approach at the stop-controlled intersection of James Avenue and Lincoln Road which is expected to operate at LOS F under existing, future background, and future total conditions during the P.M. peak hour. Please note this result is common during peak periods where a high traffic volume free-flowing major street intersects with a stop-controlled minor street. Further note that the project assigns approximately 0.36 percent (0.36%) of the overall traffic volumes at this intersection during the P.M. peak hour. As the project contributes less than 5 percent (5.0%) of traffic at this intersection, the project does not significantly or adversely impact this intersection.



	Table 3: P.M. Pea	ak Hour Intersec	tion Capacity	Analysis		
Intersection	Traffic Control	Overall		Appro	ach LOS	
intersection	Trainic Control	LOS/Delay	EB	WB	NB	SB
Existin	g Conditions (Future	Background Con	ditions) [Futu	re Total Condit	tions]	
17 th Street and Washington Avenue	Signalized	C/21.9 sec (C/29.1 sec) [C/30.8 sec]	C (C) [C]	C (C) [C]	B (D) [D]	C (C) [C]
17 th Street and James Avenue	Signalized	A/9.2 sec (A/9.6 sec) [A/9.7 sec]	A (A) [A]	A (A) [A]	C (C) [C]	C (C) [C]
17 th Street and SR A1A/Collins Avenue	Signalized	B/14.7 sec (C/21.6 sec) [C/22.2 sec]	D (F) [F]	D (D) [D]	A (A) [B]	A (A) [A]
Lincoln Road and Washington Avenue	Signalized ⁽¹⁾	C/20.1 sec (B/22.6 sec) [B/23.7 sec]	(5)	C (C) [C]	C (C) [C]	B (B) [B]
Lincoln Road and James Avenue	One-Way, Stop-Controlled	(3)	(4)	(4)	(5)	F (F) [F]
17 th Street and Project Driveway	One-Way, Stop-Controlled	(3)	(4)	(4)	(4)	(5)
Washington Avenue and Project Driveway	One-Way, Stop-Controlled	(3)	(5)	(6) (⁽⁶⁾) [B]	(4)	(4)

Notes: (1) Intersection cannot be analyzed in HCM 2010; therefore HCM 2000 was used.

⁽²⁾ Project driveway only exists under future total conditions.

 $^{^{(3)}}$ Overall intersection LOS is not defined, as intersection operates under stop-control conditions.

 $[\]ensuremath{^{\text{(4)}}}$ Approach operates under free-flow conditions. LOS is not defined.

⁽⁵⁾ Approach does not exist.

⁽⁶⁾ Approach does not exist under existing and future background conditions.



TRANSPORTATION DEMAND MANAGEMENT STRATEGIES

Transportation Demand Management (TDM) strategies are proposed to reduce the impacts of the project traffic on the surrounding roadway network. Typical measures promote bicycling and walking, encourage car/vanpooling and offer alternatives to the typical workday hours. The applicant will commit to implementing the following strategies:

- The owner will provide the approximate 30 hotel employees with Miami-Dade Transit monthly transit passes to allow employees to travel to and from the property without the need of personal automobiles. The employees will also have the option of a monthly City of Miami Beach parking garage pass that will be provided by the owner.
- The owner will offer hotel employees who have been employed for at least ninety (90)
 days financial assistance of up to \$100 to cover the cost of purchasing a bicycle to travel
 to and from work.
- Bicycle racks (short-term parking) will be provided on-site. (Twelve (12) bicycle racks will be provided in the garage and six (6) will be provided on-street.
- The owner will appoint one (1) hotel employee to serve as the TDM Program
 Administrator. This role will be to encourage and facilitate employees to use transit or
 bicycles for travel to work.
- Create an Employee Transportation Coordinator position to run TDM programs.
- Patron and guest rideshare will be encouraged to and from the site. The hotel will
 provide guests with an Uber promotional code to encourage and facilitate the use of
 these services for first time uses.
- Citi Bike usage will be encouraged. Hotel guests will be provided with promotional codes to receive discounts on bicycle sharing program.

Please note that three (3) Citi Bike stations with 16 bicycle docks each are located within the vicinity of the project site on the west side of Washington Avenue just north of 17th Street, on the south side of Lincoln Road just west of James Avenue, and on the south side of 17th Street just east of SR A1A/Collins Avenue.

CONCLUSION

Sobe Center, LLC is proposing to redevelop the property located in the southeast quadrant at the intersection of 17th Street and Washington Avenue in Miami Beach, Florida. The existing land use includes a 6,644 square-foot drive-in bank. The proposed redevelopment consists of a 150-room hotel, 2,023 square feet of retail space, a 4,000 square-foot walk-in bank, and 295 total restaurant seats with 145 seats located on the ground floor (5,258 square feet) and 150 seats located on the rooftop level (2,156 indoor square feet and 2,244 exterior square feet).

The results of the intersection capacity analysis indicate that the study intersections are expected to operate at adopted levels of service (LOS D+20% or better) during the P.M. peak hour under all analysis conditions with the exception of the southbound approach at the stop-controlled intersection of James Avenue and Lincoln Road which is expected to operate at LOS F under existing, future background, and future total conditions during the P.M. peak hour. Please note this result is common during peak periods where a high traffic volume free-flowing major street intersects with a stop-controlled minor street. Further note that the project assigns approximately 0.36 percent (0.36%) of the overall traffic volumes at this intersection during the P.M. peak hour. As the project contributes less than 5 percent (5.0%) of traffic at this intersection, the project does not significantly or adversely impact this intersection.

TDM strategies are proposed to reduce the impacts of the project traffic on the surrounding roadway network. Typical measures promote bicycling and walking, encourage car/vanpooling and offer alternatives to the typical workday hours. The applicant will commit to implementing the following strategies:

- The owner will provide the approximate 30 hotel employees with Miami-Dade Transit monthly transit passes to allow employees to travel to and from the property without the need of personal automobiles. The employees will also have the option of a monthly City of Miami Beach parking garage pass that will be provided by the owner.
- The owner will offer hotel employees who have been employed for at least ninety (90)
 days financial assistance of up to \$100 to cover the cost of purchasing a bicycle to travel
 to and from work.

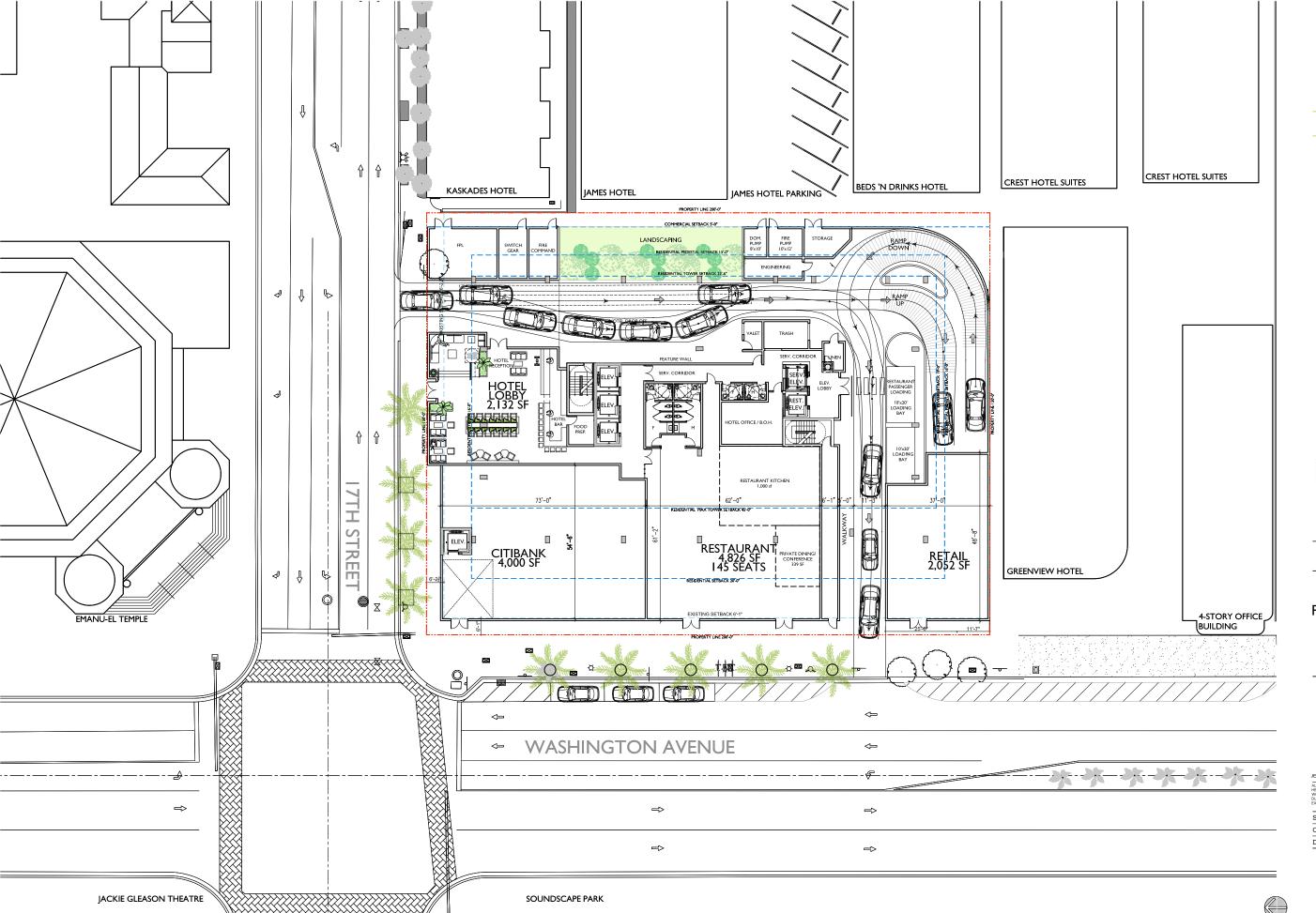


- Bicycle racks (short-term parking) will be provided on-site. Twelve (12) bicycle racks will be provided in the garage and six (6) will be provided on-street.
- The owner will appoint one (1) hotel employee to serve as the TDM Program
 Administrator. This role will be to encourage and facilitate employees to use transit or
 bicycles for travel to work.
- Create an Employee Transportation Coordinator position to run TDM programs.
- Patron and guest rideshare will be encouraged to and from the site. The hotel will
 provide guests with an Uber promotional code to encourage and facilitate the use of
 these services for first time uses.
- Citi Bike usage will be encouraged. Hotel guests will be provided with promotional codes to receive discounts on bicycle sharing program.

Please note that three (3) Citi Bike stations with 16 bicycle docks each are located within the vicinity of the project site on the west side of Washington Avenue just north of 17th Street, on the south side of Lincoln Road just west of James Avenue, and on the south side of 17th Street just east of SR A1A/Collins Avenue.

Appendix A

Site Plan



MCG ABCHITECT IDE 4 DI ANNIN

> 7580 NE 4th Court Studio 100 Miami, FL 33138

> > 1723

PROJECT NON

PROJECT:

1685 Washington

1685 Washington Ave Miami Beach, FL 33139



RUDY RICCIOTTI a r c h i t e c t e ARTISTIC ADVISOR

DRAWING:

PROPOSED SITE PLAN

NIFER MCCONNEY FLORIDA LIC# AR93044

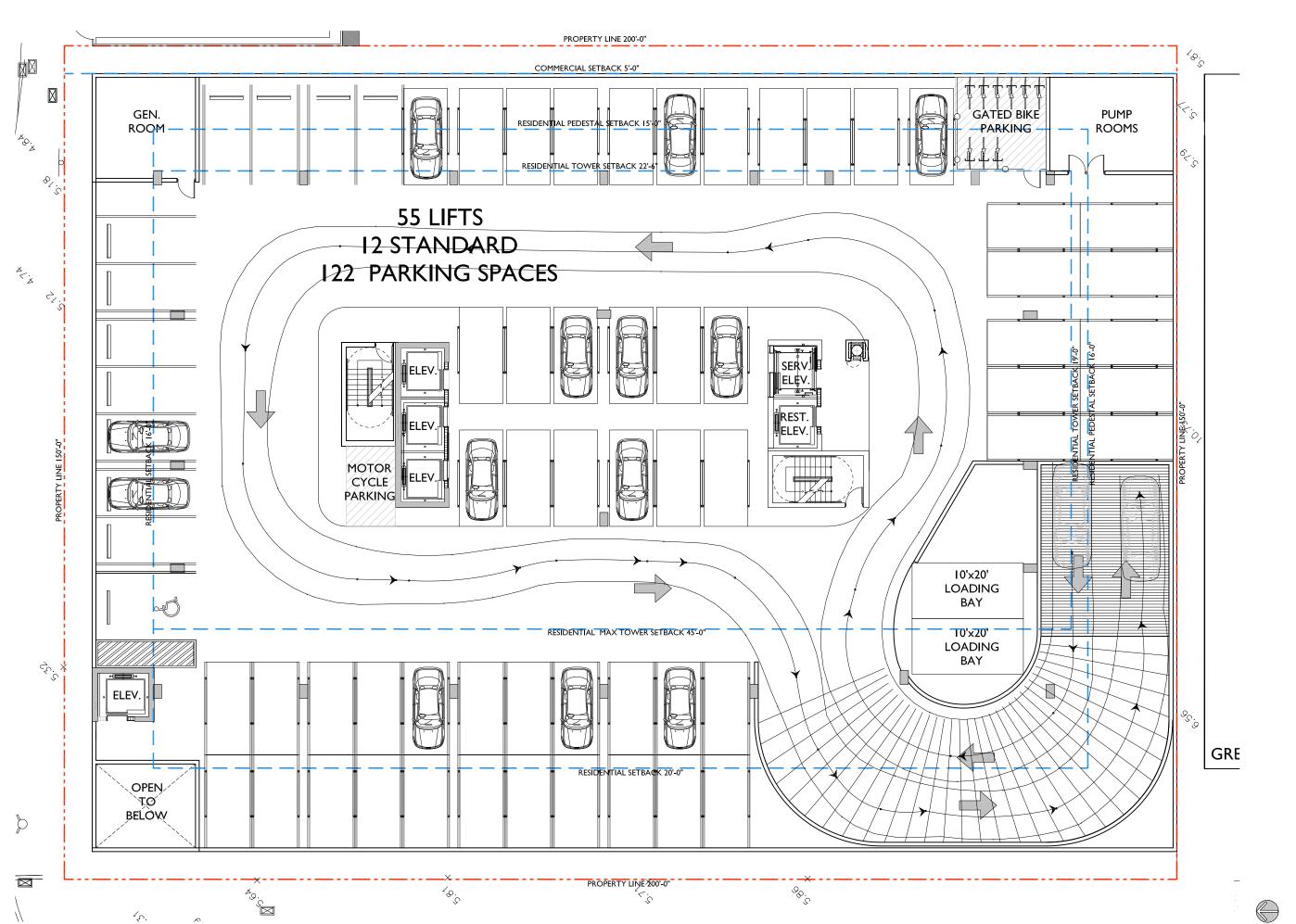
DRAWINSS AND WRITTEN MATERIAL APPEARING
IN CONSTITUTE THE ORIGINAL AND UNPUBLISHED
KK OF MAG ARCHITECTURE AND MAY NOT BE
LOATED, USED OR DISCLOSED WITHOUT THE
LESS WRITTEN CONSENT OF MAG ARCHITECTURE &
PLANNING, INC. (20 JANNIO, INC. (20 JANNIO, INC.)

 SCALE:
 N.T.S.

 CHECK:
 JMcG

 DATE:
 04/02/2018

A2.00B





7580 NE 4th Court Studio 100 Miami, FL 33138

1723

PROJECT:

1685 Washington

1685 Washington Ave Miami Beach, FL 33139



RUDY RICCIOTTI

a r c h i t e c t e

ARTISTIC ADVISOR

DRAWING:

PROPOSED 2ND LEVEL PLAN

JENNIFER McCONNEY FLORIDA LICE ARROSOM
ALL DRAWINGS AND WRITTEN MATERIAL APPEARING
MERIC CONSTITUTE THE ORIGINAL AND UNPUBLISHED
DUPLICATED. USED OR DISCLOSED WITHOUT THE
EXPRESS WRITTEN CONSENT OF MACHIETCITURE S
SCALE:

N.T.S.
CHECK: JMcG
DATE: 04/02/2018

A2.02

Appendix B

Methodology Correspondence

Dorman, Cory

From: Akcay, Firat < FiratAkcay@miamibeachfl.gov>

Sent: Friday, November 3, 2017 9:00 AM
To: Dabkowski, Adrian; Ferrer, Josiel

Cc: Dorman, Cory; Ronald Finvarb; Mickey Marrero

Subject: RE: 1685 Washington Avenue | Traffic Study Methodology

Good morning Adrian,

You can proceed with data collection.

I am waiting on the peer reviewer to confirm the reduction factors. I will update you later today.

Thank you



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: Dabkowski, Adrian [mailto:Adrian.Dabkowski@Kimley-horn.com]

Sent: Friday, November 03, 2017 6:57 AM

To: Ferrer, Josiel; Akcay, Firat

Cc: Dorman, Cory; Ronald Finvarb; Mickey Marrero

Subject: RE: 1685 Washington Avenue | Traffic Study Methodology

Good morning Josiel and Firat:

Please let us know if you have any comments on the traffic study methodology for 1685 Washington Avenue. We need to move forward with data collection in order to maintain the project schedule.

Thank you Adrian

Adrian K. Dabkowski, P.E., PTOE

Kimley-Horn | 600 North Pine Island Road, Suite 450, Plantation, FL 33324

Direct: 954-535-5144 | Main: 954-535-5100

From: Dabkowski, Adrian

Sent: Monday, October 9, 2017 10:15 AM

To: JOSIELFERRER@miamibeachfl.gov; Akcay, Firat <FiratAkcay@miamibeachfl.gov>

Cc: Dorman, Cory < com; 'Ronald Finvarb' < com; Mickey Marrero

<mmarrero@brzoninglaw.com>

Subject: 1685 Washington Avenue | Traffic Study Methodology

Good morning Josiel and Firat:

Thank you for taking the time to meet with us last week to discuss the 1685 Washington Avenue redevelopment project. Based on our discussions, our proposed methodology is attached. Please let us know if you have any comments, information on committed developments to include in the analysis, and programmed improvements that the City maybe proposing in the study area.

Thank you Adrian



Adrian K. Dabkowski, P.E., PTOE Kimley-Horn | 600 North Pine Island Road, Suite 450, Plantation, FL 33324 Direct: 954-535-5144 | Main: 954-535-5100



MEMORANDUM

To: Josiel Ferrer, E.I.

Firat Akcay

City of Miami Beach

From: Adrian K. Dabkowski, P.E., PTOE AK

Cory D. Dorman, E.I./

Date: October 10, 2017

Subject: 1685 Washington Avenue Traffic Study Methodology

The purpose of this memorandum is to summarize the traffic study methodology discussed at our October 5, 2017 meeting. The proposed redevelopment is located in the southeast quadrant at the intersection of 17th Street and Washington Avenue in Miami Beach, Florida. The existing land use includes a 6,644 square-foot drive-in bank. The proposed redevelopment consists of a 150-room hotel, 2,429 square feet of retail space, a 4,000 square-foot walk-in bank, and 295 total restaurant seats with 145 seats located on the ground floor (5,258 square feet) and 150 seats located on the rooftop level (2,156 indoor square feet and 2,244 exterior square feet). A conceptual site plan and project location map are included in Attachment A. Please note that self-parking will be provided for the proposed walk-in bank on-site and all other vehicles with the exception of taxis/shared-rides will be valeted on-site. The following sections summarize our proposed methodology.

ANALYSIS PERIOD DETERMINATION

The analysis period was based on the peak two (2) hour period determined from three (3) 72-hour continuous traffic counts gathered from the *Miami Beach Light Rail Modern Streetcar Traffic Report*, February 2017. The 72-hour continuous traffic counts within the vicinity of the proposed redevelopment are located on 17th Street between Michigan Avenue and Jefferson Avenue, Convention Center Drive between 17th Street and Dade Boulevard, and Meridian Avenue between 17th Street and Dade Boulevard. The 72-hour counts were collected on Thursday, April 7, 2016, Friday, April 8, 2016, and Saturday, April 9, 2016. Based on the 72-hour continuous traffic counts, the analysis period was determined to be on Friday from 3:15 P.M. to 5:15 P.M. The 72-hour continuous traffic counts are included in Attachment B. All traffic counts will be adjusted to peak season conditions using the appropriate Florida Department of Transportation (FDOT) peak season category factors for Miami Beach. Turning movement counts will be collected in 15-minute intervals during the Friday peak period and will include pedestrian and bicycle counts. Signal timing information will be obtained from Miami-Dade County Department of Transportation and Public Works – Signals and Signs Division. All traffic data collected will be provided in the Appendix of the traffic impact study.

STUDY AREA

Based on the proposed redevelopment plan, the following intersections in addition to the project driveways, are proposed to be analyzed:



- 1. 17th Street and Washington Avenue
- 2. 17th Street and James Avenue
- 3. 17th Street and SR A1A/Collins Avenue
- 4. Lincoln Road and Washington Avenue
- 5. Lincoln Road and James Avenue

Turning movement counts will include pedestrians and bicyclists.

TRIP GENERATION

Trip generation calculations for the proposed redevelopment were performed using Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 9th Edition. The trip generation for the existing development was determined using ITE Land Use Code (LUC) 912 (Drive-in Bank). The trip generation for the proposed redevelopment was determined using ITE LUC 310 (Hotel), 826 (Specialty Retail Center), 911 (Walk-in Bank), and 931 (Quality Restaurant). Project trips were estimated for the weekday P.M. peak hour, consistent with the analysis peak period.

A multimodal (public transit, bicycle, and pedestrian) factor based on US Census *Means of Transportation to Work* data was reviewed for the census tract in the vicinity of the redevelopment. The US Census data indicated that there is a 31.7 percent (31.7%) multimodal factor within the vicinity of the redevelopment to account for the urban environment in which the project site is located based on direction by the City of Miami Beach. It is expected that residents and patrons will choose to walk or use public transit to and from the proposed redevelopment. Transit route information will be documented in the report. Detailed trip generation calculations and US Census *Means of Transportation to Work* data are included in Attachment C.

A portion of the trips generated by the redevelopment will be captured internally on the site. Internal capture rates were based upon values contained in ITE's, *Trip Generation Handbook*, August 2014. The internal capture for the proposed redevelopment is expected to be 22.9 percent (22.9%) during the P.M. peak hour.

Pass-by capture rates were determined based on average rates provided in the ITE's *Trip Generation Handbook*, 3rd Edition. The pass-by rate used for the existing drive-in bank is 35.0 percent (35.0%) during the P.M. peak hour. The pass-by rate for the proposed restaurant is 44.0 percent (44.0%) during the P.M. peak hour.

The project is expected to generate 42 net new vehicle trips during the P.M. peak hour. Detailed trip generation calculations are included as Attachment C.

TRIP DISTRIBUTION

Trip distribution will be determined based on turning movements counts collected at the study area intersections as well as the location of parking facilities used by the proposed redevelopment. Additionally, the distribution will be based on an interpolated cardinal trip distribution for the project site's traffic analysis zones (TAZs) obtained from the Miami-Dade Metropolitan Planning Organization's 2040 Cost Feasible Plan travel demand model 2010 and 2040 data. The trip distribution for the anticipated build-out year of 2020 was interpolated from the 2010 and 2040 data. The project is located within TAZ 644. The detailed cardinal distribution is provided in Attachment D.



BACKGROUND GROWTH RATE/MAJOR COMMITTED DEVELOPMENT

A background growth rate will be calculated based on historic growth trends at nearby Florida Department of Transportation (FDOT) traffic count stations. Additionally, growth rates based on Miami-Dade Metropolitan Planning Organization's (MPO) projected 2010 and 2040 model network volumes will be examined. The higher of the two (2) growth rates will be used in the analysis. Documentation will be provided in the Appendix of the traffic impact study.

The City's review of this document will determine any committed projects to include in background conditions. The City will provide the corresponding approved traffic study for any committed projects identified.

CAPACITY ANALYSIS

Capacity analyses will be conducted for the analysis period for the study intersections. Intersection analyses will be performed using *Synchro* traffic engineering analysis software which applies the Transportation Research Board's (TRB's), *Highway Capacity Manual* (HCM), 2000 and 2010 methodologies. Capacity analyses will be conducted for three (3) scenarios: existing, build-out without project, and build-out with project. The redevelopment is expected to be built-out by 2020.

The following figures will be included for the study intersections:

- Existing conditions
- Trip distribution
- Trip assignment (will outline which driveways are used for the various land uses)
- Future background traffic conditions (with growth rate and committed development traffic)
- Future total traffic conditions (with project)

PROGRAMMED IMPROVEMENTS

The City's review of the City of Miami Beach's *Comprehensive Plan* will identify any programmed improvements along 17th Street to be included as part of the analysis.

TRANSPORTATION DEMAND MANAGEMENT STRATEGIES

Transportation Demand Management (TDM) strategies will be developed to reduce the impact of project traffic on the surrounding roadway network and promote trip reduction. Typical measures promote bicycling and walking, encourage car/vanpooling and offer alternatives to the typical workday hours.

DOCUMENTATION

The results of the traffic analysis will be summarized in a report. The report will include supporting documents including signal timings, lane geometry, and software output sheets. The report will also include text and graphics necessary to summarize the assumptions and analysis.

A CD and electronic copy of the reports will be provided as part of the submittal package. Additionally, the Synchro analysis files will be provided on the CD.



VALET ANALYSIS

A valet operations queuing analysis will be prepared for the vehicle drop-off/pick-up area to ensure that queues do not spill back into public right-of-way. The vehicle drop-off/pick-up area for the valet operation will be coordinated with the City of Miami Beach Planning Department.

Trip generation estimates will be utilized to provide for the highest demand (weekday P.M. peak hour) scenario. Additionally, a taxi/shared-ride trip percentage factor of 42.6 percent (42.6%) was applied based on actual field observation from the Cadillac Hotel located at 3925 Collins Avenue, Miami Beach to account for valet trips associated with the hotel, retail, and restaurant components of the redevelopment. The valet operations queuing analysis will be conducted consistent with procedures described in ITE's *Transportation and Land Development*, 1988. A final traffic circulation figure will be prepared to illustrate the valet routes to and from the vehicle drop-off/pick-up area. Data related to taxi trips are included in Attachment C.

A technical memorandum documenting analysis assumptions and results, including the location of the valet garage and the required number of valet attendants to service the facility under highest demand conditions will be prepared.

MANEUVERABILITY ANALYSIS

A maneuverability analysis for the loading vehicle access and parking garage will be performed utilizing Transoft Solutions' *AutoTURN* software. Deficiencies related to maneuverability, traffic flow, and vehicular conflicts will be documented in a technical memorandum.

K:\FTL_TPTO\043896000-1685 Washington Avenue\correspondence\memo\1685 Washington Avenue Traffic Study Methodology rev.docx

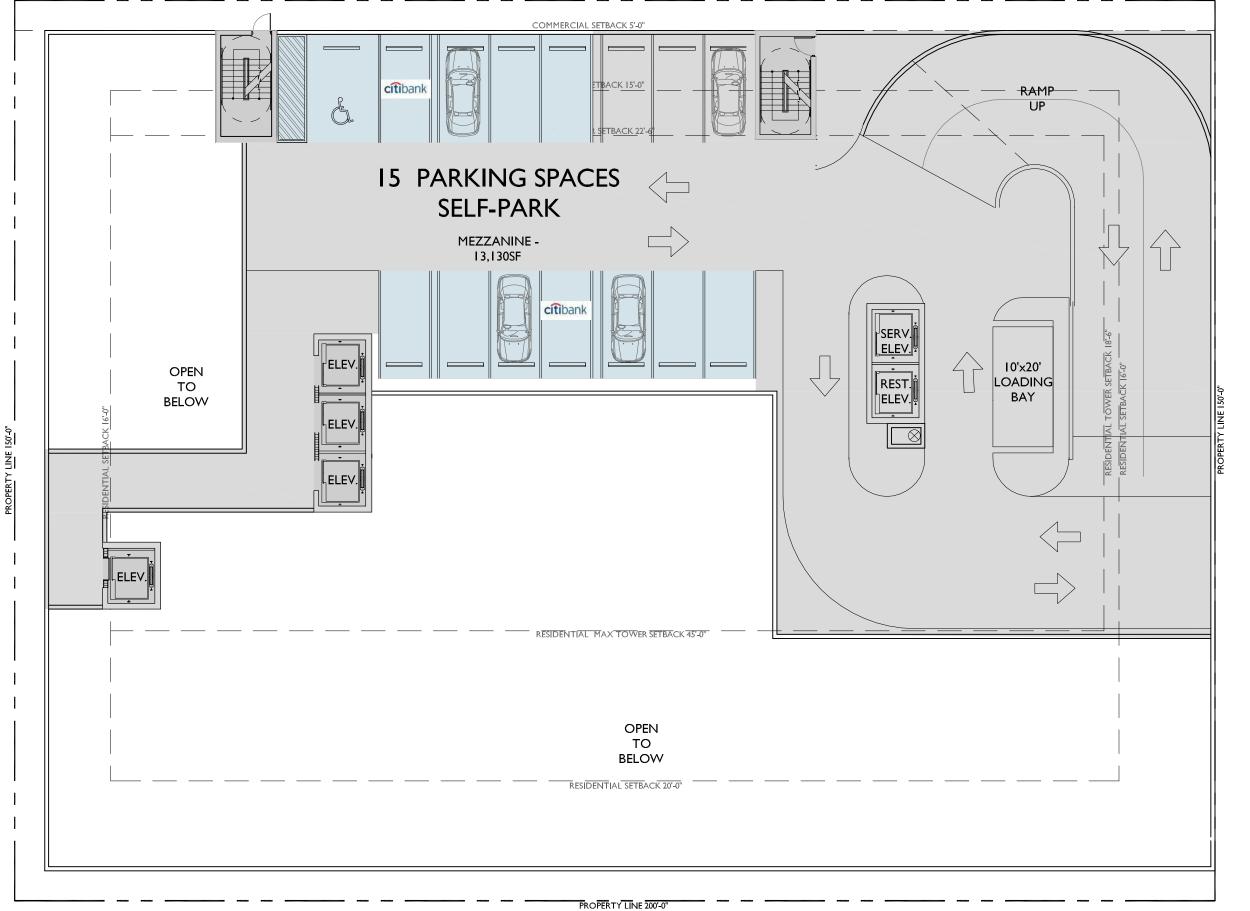
Attachment A Conceptual Site Plan and Project Location Map

Washington



FLOOR PLAN

16"=1'-0" 08/31/2017





7580 NE 4th Court Studio 100 Miami, FL 33138

1723

PROJECT NUMBER

PROJECT:

1685 Washington

1685 Washington Ave Miami Beach, FL 33139



DRAWING:

LEVEL I.5 MEZZANINE FLOOR PLAN

JENNIFER McCONNEY FLORIDA LIC#AR83044

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING
HEREN CONSTITUTE THE ORIGINAL AND UNPUBLISHED
WORK OF MAG ARCHITECTURE AND MAY NOT BE
DUPLICATED. USED OR DISCLOSED WITHOUT THE
EXPRESS WRITTEN CONSENT OF MGA RCHITECTURE &

A 1.01.1

PROPERTY LINE 200'-0"



7580 NE 4th Court Studio 100 Miami, FL 33138

1723

PROJECT NUMBER

PROJECT:

1685 Washington

1685 Washington Ave Miami Beach, FL 33139



DRAWING:

LEVEL 2 **FLOOR PLAN**

JENNIFER McCONNEY FLORIDA LIC# AR93044

/₁₆"=1'-0"

/₁₆"=1'-ØMcG DATE: 08/31/2017

A 1.02

PROPERTY LINE 200'-0"



7580 NE 4th Court Studio 100 Miami, FL 33138

1723

PROJECT NUMBER

PROJECT:

1685 Washington

1685 Washington Ave Miami Beach, FL 33139



DRAWING:

LEVELS 3-5 FLOOR PLAN

JENNIFER McCONNEY FLORIDA LIC# AR930
ALL BRAWNINGS AND WRITTEN MATERIAL APPEARS
HERBIN CONSTITUTE THE ORIGINAL AND UNBESS
WORK OF McG. ARCHITECTURE AND MAY NOT
DUPLICATED, USED OR DISCLOSED WITHOUT
EXPRESS WRITTEN CONSENT OF McG. ARCHITECTURE
PLANNING, INC., (2) 2017

SCALE:	/ ₁₆ "=1'
CHECK:	JMo
DATE:	08/31/20
SHEET	NUMBER

A 1.03

FLOOR PLAN 3RD-5TH LEVELS

%="1'-0"

PROPERTY LINE 200'-0"



7580 NE 4th Court Studio 100 Miami, FL 33138

1723

PROJECT NUMBER

PROJECT:

1685 Washington

1685 Washington Ave Miami Beach, FL 33139



DRAWING:

LEVEL6 **FLOOR PLAN**

SCALE:	⅓ ₆ "=1"
CHECK:	JM
DATE:	08/31/20
SHEET	NUMBER

1/₁₆"=1'-0"

A 1.06

RESIDENTIAL SETBACK 20'-0"

PROPERTY LINE 200'-0"



7580 NE 4th Court Studio 100 Miami, FL 33138

1723

PROJECT NUMBER

PROJECT:

1685 **Washington**

1685 Washington Ave Miami Beach, FL 33139



DRAWING:

ROOF **FLOOR PLAN**

JENNIFER McCONNEY FLORIDA LIC# AR9304 16"=1'-0"

CHECK: DATE: 08/31/2017

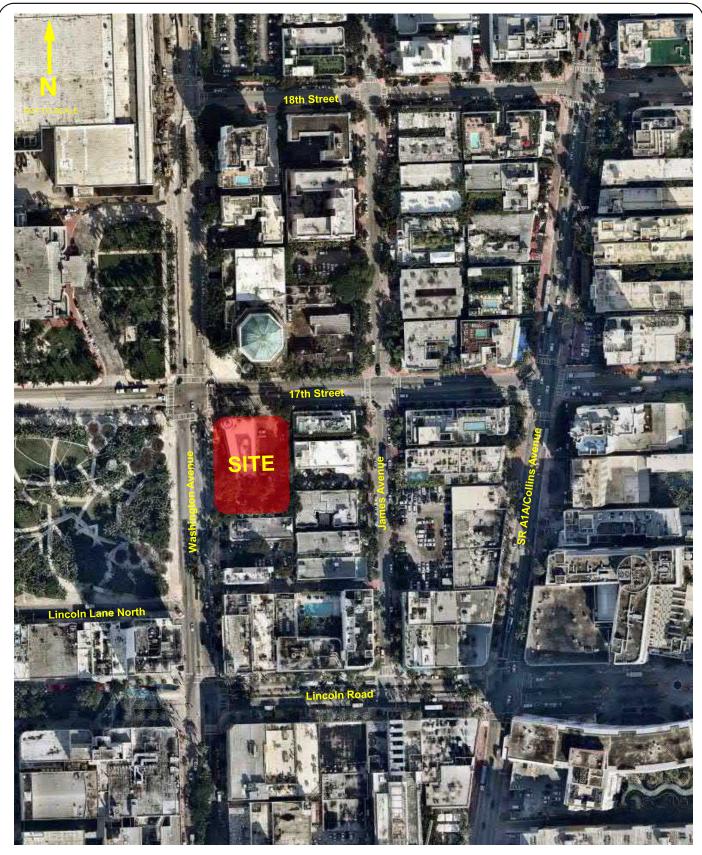




Figure 1 Location Map 1685 Washington Avenue Miami Beach, Florida

Attachment B

72-Hour Continuous Traffic Counts

72-Hour Cont	inuous Count Traffic Da	ta Summary
	Dools 2 House Doubled	Peak 2-Hour Traffic
Date	Peak 2-Hour Period	Volume
Thursday, April 7, 2016	4:00 P.M 6:00 P.M.	5,335 vehicles
Friday, April 8, 2016	3:15 P.M 5:15 P.M.	5,855 vehicles
Saturday, April 9, 2016	3:30 P.M 5:30 P.M.	4,968 vehicles

Thursday Continuous Counts

		13-310	03-002		16-31	12-002			16-311				
Thursday Time	17 St bet. Mich NB/EB	igan Ave & Jeffe SB/WB	erson Ave Total	Convention Cer NB/EB	nter Dr bet. 17 : SB/WB	St & Dade Blvd Total		Meridian Ave b	sB/WB	e Blvd Total		Grand Total	2-Hour Peak
0:00	49	45	94	25	4	29		72	14	86		209	
0:15 0:30	43 38	55 48		15 16	5	20		53 30		77 44		195 151	
0:45	40	31	71	9	1	10		20	14	34		115	
1:00 1:15	30 30	54 31		3	4	6 7		32 26		44 37		134 105	
1:30	21	32	53	8	4	12		18		29		94	
1:45 2:00	21 24	31 22		1	0	5 1		11 11		22 18		79 65	1,082 938
2:15	20	15	35	1	1	2		10	6	16		53	796
2:30 2:45	17 13	20 18		1	1	2		10 8		17 15		55 48	700 633
3:00	13	15		4	2	6		6		11		45	544
3:15 3:30	15 14	10 18		1	0	1		12 9		12 14		39 47	478 431
3:45	11	8		2	0	2		5		10		31	383
4:00 4:15	8 12	10 10		3 1	0	5 1		5 9		8 17		31 40	349 336
4:30	18	10		2	2	4		8		25		57	338
4:45 5:00	14 14	9		3	4	7		11 8		25 23		53 56	343 354
5:15	28	14		1	1	2		8		28		72	387
5:30 5:45	31 34	13 12		4	6 11			7 11		42 66		92 127	432 528
6:00	54	20		4	10			21 17		84		172 248	669
6:15 6:30	92 94	31 21		5 8	27 24	32 32		23		93 113		248 260	877 1,080
6:45	101	30		11	31	42		39		127		300	1,327
7:00 7:15	95 80	41 42		35 16	29 46		 	51 44		135 141		335 325	1,606 1,859
7:30	85	37	122	32	30	62		50	97	147		331	2,098
7:45 8:00	106 89	50 58		16 15	27 33	43 48		53 60		144 162		343 357	2,314 2,499
8:15	102	57	159	20	45	65		64	120	184		408	2,659
8:30 8:45	123 99	62 69		36 23	46 55		 	73 67		193 190		460 436	2,859 2,995
9:00	128	75	203	24	52	76		76	118	194		473	3,133
9:15 9:30	126 126	75 74		20 26	53 54	73 80		62 44		184 164		458 444	3,266 3,379
9:45	137	91		38	44	82		64		202		512	3,548
10:00 10:15	116 105	89 93		20 29	44 30	64 59		63 53		169 137		438 394	3,629 3,615
10:30	117	101		22	22			71		177		439	3,594
10:45 11:00	112 118	70 82		22 19	52 37	74 56		70 67		173 161		429 417	3,587 3,531
11:15	126	108		45	43			84	97	181		503	3,576
11:30 11:45	137 129	96 114		28 36	35 40	63 76		77 83		196 201		492 520	3,624 3,632
12:00	135	125	260	25	49	74		92	91	183		517	3,711
12:15 12:30	126 140	122 117		36 46	37 29	73 75		90 95		178 205		499 537	3,816 3,914
12:45	153	112		36				108		220		554	4,039
13:00 13:15	136 162	129 132		36 38	43 43			88 92		190 197		534 572	4,156 4,225
13:30	142	130		58	41	99		98	107	205		576	4,309
13:45 14:00	167 166	109 130		34 55				101 89	96 83	197 172		539 564	4,328 4,375
14:15	152	113		42	39			110		226		572	4,448
14:30 14:45	156 131	132 118		51 45	42 45			138 131		273 246		654 585	4,565 4,596
15:00	150	112		72				173		275		629	4,691
15:15 15:30	136 133	149 157		65 68	27 30			168 200		288 296		665 684	4,784 4,892
15:45	138	98	236	45	35	80		149	102	251		567	4,920 5,067
16:00 16:15	152 164	177 148	312	72 54	18	72		171 173	107	280		711 664	5,159
16:30 16:45	157 153	136 134		56 48				159 157		283 281		657 648	5,162 5,225
17:00	137	134 160	297	77	23	100		201	74	275		672	5,268
17:15 17:30	148 131	128 155		78 69				210 182		308 273		699 654	5,302 5,272
17:45	145	149	294	60	26	86		167	83	250		630	5,335
18:00 18:15	121 125	134 140		73 41				167 164				606 565	5,230 5,131
18:30	121	147	268	43	24	67		133	82	215		550	5,024
18:45 19:00	134 113	131 126		26 33	25 25			121 99		206 178		522 475	4,898 4,701
19:15	117	125	242	35	23	58		97	71	168		468	4,470
19:30 19:45	127 125	112 122		40 30	25 12			83 88		166 162		470 451	4,286 4,107
20:00	116	110	226	24	23	47		85	54	139		412	3,913
20:15 20:30	108 93	118 94		28 29	16 10			87 81		165 140		435 366	3,783 3,599
20:45	126	99	225	19	23	42		70	61	131		398	3,475
21:00 21:15	96 88	97 107		19 21	10 15			85 57		138 114		360 345	3,360 3,237
21:30	97	96	193	29	16	45		78	63	141		379	3,146
21:45 22:00	105 107	86 86		23 24	20 16			67 74		126 129		360 362	3,055 3,005
22:15	97	91	188	29	11	40		89	43	132		360	2,930
22:30 22:45	92 102	88 80		18 25	15 11			59 58		112 103		325 321	2,889 2,812
23:00	83	93	176	24	9	33		67	44	111		320	2,772
23:15 23:30	94 93	89 76		39 30	13 4			74 90		109 123		344 326	2,771 2,718
23:45	71	83		15				80				287	2,645
TOTAL			17,047			4,822				14,008		35,877	273,524
											MAX	711	5,335

Friday Continuous Counts

Section Property			13-310	03-002			16-311	2-002				16-31	12-003	1	
Section Sect	Friday	17 St bet. Michig			Con	nvention Cen					Meridian Ave b				
Section Sect							SB/WB				-				2-Hour Peak
1. 1. 1. 1. 1. 1. 1. 1.							8								
1.00							3								
The							2								
1.50							5								
1.50							3								
13							0	4							1,395
Dec							1								1,204
1.50							2								
10							1								
Yes Y							1	4							742
According Acco							0								646
April							2								
1							1								492
APP	4:15						0	5							452
Section Sect							_								
10							/ 								
5-90							3								485
Section 1	5:30						6	8							503
Color															608
A			,												
4-66															
The color of the	6:45	92	26	118			35	51			30	100		299	1,341
Property															1,615
The color of the															
ACC 100															2,314
\$80	8:00	116	48	164		19	36	55			67	106	173	392	2,551
855 176 176 177 177 177 177 177 178															2,737
990 158 88 278 77 35 54 12 166 157 157 166 1317 131 132 132 136 132 136 132 136 1317 1318															2,908 3,110
986 177 201 261 278 81 119 201 409 3,488 986 127 202 202 20 40 78 3 107 131 408 3,20 903 112 203 128 203 101 201 101 201 101 401 3,20 3,20 3,20 203 121 101 101 401 401 777 771 771 101 101 101 203 101 203 101 203 101 203 101 203 101 203 203 401 301															3,235
PS															
1950 128															
100 100															
100 100 100 120 35 65 80 86 95 170 170 3515															3,796
11:05															3,838
11:35 150 59 257 34 47 81 50 507 107 558 5.59 11:50 100 105 266 55 65 65 65 65 65															
13-30															
1200 138															
12:15															4,039
1245 146															
1245 188 197 291 37 50 67 111 144 225 693 4.415 1300 171 137 308 442 40 82 139 131 270 660 4.525 1315 170 135 305 42 53 395 120 129 240 640 4.575 1330 200 135 333 55 41 92 120 129 240 640 4.575 1340 135 333 55 41 92 120 129 240 640 4.575 1340 135 333 55 41 92 120 129 120 120 120 665 4.575 1340 135 136 136 136 136 146 147 147 147 147 147 147 147 1451 156 110 265 44 17 79 140 150 138 289 665 5.466 1441 150 150 138 289 666 5.466 1453 167 129 236 66 41 110 150 138 289 665 5.466 1453 150 135 136 337 44 49 9 155 156 222 770 5.338 150 153 145 238 79 46 175 177 127 239 721 5.308 1515 150 138 337 48 56 48 18 68 124 177 127 239 721 5.308 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 154 15															
11:15															4,415
13:30 203 135 338 51 41 92 1119 116 235 665 4.200 13:46 182 155 333 33 64 48 2 1 122 125 227 662 4.286 14:00 182 128 310 54 45 59 1118 111 229 663 5.000 14:15 115 110 265 441 37 77 79 1131 100 231 574 14:30 167 179 185 186 187 187 187 187 187 187 187 187 187 187															4,562
1348 182 151 333 38 44 82 112 125 207 662 433 1400 182 132 310 5 54 455 99 118 118 111 229 638 5.00 1415 155 110 225 44 137 77 1131 100 221 574 5.01 1430 167 129 226 69 41 110 150 139 229 658 5.04 1443 189 126 315 49 44 39 116 156 329 770 5.14 1430 133 126 228 77 44 130 156 315 49 44 39 116 32 22 22 20 70 5.44 1444 139 136 126 231 148 20															
14:00 13:22 12:8 310 5:4 4:5 59 11:8 11:1 22:9 6:38 5.00 14:30 16:7 12:9 26:6 4:1 37 72 13:1 100 23:1 57:4 5.010 14:30 16:7 12:9 26:6 6:9 4:1 11:0 15:0 139 289 6:65 5.16 14:45 18:9 12:6 31:5 4:0 4:4 5:9 15:5 13:6 292 700 5.243 15:00 15:3 14:5 298 79 4:6 12:5 17.7 12:1 298 72:1 5.300 15:15 16:6 13:8 307 3:8 5:5 33:1 13:8 109 293 73:1 5.366 15:30 15:4 14:1 31:5 6:3 4:3 11:6 21:2 11:0 342 73:8 5.568 15:30 15:4 14:1 31:5 6:3 4:3 11:0 12:2 11:0 342 73:8 5.568 15:30 3:4 14:1 31:5 3:3 3:5															
1430 167 129 226 68 41 110 150 139 288 665 5,146 1435 180 126 315 49 44 93 156 336 222 700 5,248 1500 1513 145 228 79 46 125 177 121 228 721 5,300 1515 146 138 307 81 50 131 184 109 231 731 5,368 1530 194 141 335 63 44 106 222 110 342 783 5,500 1545 186 133 337 55 43 98 174 129 300 738 5,500 1560 186 140 333 58 31 89 192 94 266 708 5,500 1561 187 132 319 72 23 109 165 128 233 722 270 1645 159 141 300 67 26 93 162 116 288 668 5,760 1700 170 178 322 89 41 130 128 104 302 788 5,500 1715 166 168 334 68 35 103 180 92 277 709 5,531 1730 168 147 315 59 28 87 1175 109 246 668 5,760 1800 151 154 305 556 36 37 1175 109 246 668 5,760 1815 169 170															5,004
1445 188															5,010
15:00															
15:15															
15.45														 	5,386
16:00															5,504
16:15 187 132 319 72 37 109 165 128 293 721 5.797 16:30 170 158 328 72 22 100 162 119 281 709 5.511 16:40 159 141 300 67 26 93 162 126 288 681 5.792 17:30 166 168 334 68 35 103 180 92 277 709 5.83 17:35 166 168 334 68 35 103 180 92 277 709 5.83 17:35 170 153 332 58 30 88 138 111 249 666 5.638 18:00 151 154 305 56 26 82 153 111 284 661 5.766 18:30 152 144 296 43 31															
16:30															5,650
17:00 174 178 352 88 84 11 130 198 104 302 784 5.855 17:10 17:15 166 168 334 668 35 103 1880 92 272 779 5.833 17:30 168 147 315 59 28 87 17:5 109 284 686 5.736 17:45 170 153 323 58 30 88 188 1111 249 666 5.568 18:50 151 154 305 56 26 82 153 111 244 665 151 5.601 18:15 163 166 329 50 32 82 170 103 273 684 5.564 18:45 172 130 302 59 33 88 2 170 103 273 684 5.564 18:45 172 130 302 59 36 95 127 96 223 6620 5.418 19:00 155 115 270 47 49 96 115 90 205 571 5.205 19:15 168 136 304 30 30 37 67 106 118 224 595 509 19:45 19:40 17:40 18:45 19:45	16:30	170	158	328		72	28	100			162	119	281	709	5,811
17:15															5,792
17:30															
17.45															5,736
18:15	17:45	170	153	323		58	30	88	_	_	138	111	249	660	5,658
18:30 152 144 296 43 31 74 135 119 254 624 5.479 18:45 172 130 302 59 36 95 127 96 223 620 5.418 19:00 155 115 270 47 49 96 115 90 205 571 5.205 19:15 168 136 304 30 37 67 106 118 224 595 5.091 19:30 176 119 295 44 40 84 95 90 185 564 4.969 19:45 160 132 292 49 33 82 91 97 188 552 4.871 20:00 136 85 221 30 33 63 91 91 91 182 466 4.686 20:15 125 122 247 41 28 69 98 108 206 522 4.524 20:30 154 104 258 62 41 103 90 88 178 539 4.439 20:45 127 115 242 52 27 79 85 67 152 2473 4.42 21:00 117 121 238 22 20 42 79 75 154 434 4.155 21:15 124 123 247 26 12 38 74 84 158 443 4.003 21:15 124 123 247 27 27 17 44 44 45 47 48 47 48 48 48 21:16 17 18 234 27 27 27 27 27 27 27 2															5,601
18:45															
19:00 155 115 270 47 49 96 115 90 205 571 5.205 19:15 168 136 304 30 37 67 106 118 224 5595 5.091 19:30 176 119 295 44 40 84 95 90 185 564 4,969 19:45 160 132 292 49 33 82 91 97 188 562 4.871 20:00 136 85 221 30 33 63 91 91 91 182 466 4,666 20:15 125 122 247 41 28 69 98 108 206 522 4,524 20:30 154 104 258 62 41 103 90 88 178 539 4,439 20:45 127 115 242 52 27 79 85 67 152 443 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:30 117 114 231 26 18 44 92 77 68 145 425 22:00 133 94 227 27 17 44 70 63 133 404 3,680 22:15 128 124 252 20 18 38 78 59 137 427 3,585 22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:30 149 122 271 44 18 62 130 49 179 515 3,684 23:45 119 85 204 38 19 57 121 40 161 422 3,684 23:45 119 85 204 38 19 57 121 40 161 422 3,684 23:45 119 85 204 38 19 57 121 40 161 422 3,684 23:45 119 85 204 38 19 57 121 40 161 422 3,684 24:45 24:45 25:45 26 27 27 27 27 27 27 27															5,418
19:30 176 119 295 44 40 84 95 90 185 564 4,969 19:45 160 132 292 49 33 82 91 97 188 562 4,871 20:00 136 85 221 33 33 63 991 91 11 182 466 4,686 20:15 125 122 247 41 28 69 98 108 206 522 4,524 20:30 154 104 258 62 41 103 90 88 178 539 4,439 20:45 127 115 422 552 27 79 885 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12<	19:00	155	115	270		47	49	96			115	90	205	571	5,205
19:45 160 132 292 49 33 82 91 97 188 562 4,871 20:00 136 85 221 30 33 63 91 91 182 466 4,686 20:15 1225 122 247 41 28 69 98 108 206 522 4,524 20:30 154 104 258 62 41 103 90 88 178 539 4,439 20:45 127 115 242 52 27 79 85 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:30 117 114 231 26 18 44 <td></td>															
20:00 136 85 221 30 33 63 91 91 182 466 4,686 20:15 125 122 247 41 28 69 98 108 206 522 4,524 20:30 154 104 258 40 62 41 103 90 88 178 539 4,439 20:45 127 115 242 52 27 79 85 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:15 124 123 247 26 18 <td></td>															
20:15 125 122 247 41 28 69 98 108 206 522 4,524 20:30 154 104 258 62 41 103 90 88 178 539 4,439 20:45 127 115 242 52 27 79 85 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,03 21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:45 127 109 236 23 21 44 <td></td> <td>4,686</td>															4,686
20:45 127 115 242 52 27 79 85 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:00 133 94 227 27 17 44 70 63 133 404 3,680 22:15 128 124 252 20 18 38 78 59 137 427 3,565 22:35 128 124 252 20 18 38	20:15	125	122	247		41	28	69			98	108	206	522	4,524
21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:00 133 94 227 27 17 44 70 63 133 404 3,682 22:15 128 124 252 20 18 38 78 59 137 427 3,585 22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41															4,439
21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:00 133 94 227 27 17 44 70 63 133 404 3,580 22:15 128 124 252 20 18 38 78 59 137 427 3,580 22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53															
21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:00 133 94 227 27 17 44 70 63 133 404 3,680 22:15 128 124 252 20 18 38 78 59 137 427 3,585 22:30 109 121 230 33 12 45 87 53 140 415 3,481 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72															4,003
22:00 133 94 227 27 17 44 70 63 133 404 3,680 22:15 128 124 252 20 18 38 78 59 137 427 3,585 22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72 135 64 199 515 3,687 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 <td>21:30</td> <td>117</td> <td>114</td> <td>231</td> <td></td> <td>26</td> <td>18</td> <td>44</td> <td></td> <td></td> <td>92</td> <td>73</td> <td>165</td> <td>440</td> <td>3,879</td>	21:30	117	114	231		26	18	44			92	73	165	440	3,879
22:15 128 124 252 20 18 38 78 59 137 427 3,585 22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72 135 64 199 515 3,687 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684															3,742
22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72 135 64 199 515 3,615 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684															
22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72 135 64 199 515 3,615 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684															3,461
23:15 113 131 244 51 21 72 135 64 199 515 3,615 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684	22:45	131	182	313		20	21	41			73	55	128	482	3,470
23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684															3,543
23:45 119 85 204 38 19 57 121 40 161 422 3,684															
															3,684
TOTAL 19,770 5,577 15,650 40,997 308,782				19,770				5,577							

TOTAL 19,770 5,577 15,650 40,997 308,782 MAX 784 5,855

Saturday Continuous Counts

	I	13-310	2 002			16-311	12.002			16 21:	12.002		
Saturday	17 St bet. Michi			Co	onvention Cen		St & Dade Blvd		Meridian Ave b	16-31: et. 17 St & Dad			
Time	NB/EB	SB/WB	Total		NB/EB	SB/WB	Total		NB/EB	SB/WB	Total	Grand Total	2-Hour Peak
0:00 0:15	93 87	115 92	208 179		47 39	10 11	57 50		90 70	39 41	129 111	394 340	
0:30	104	97	201		21	16	37		62	37		337	
0:45	80	84	164		17	11	28		57	39	96	288	
1:00	64	87	151		17	12	29		54	38	92	272	
1:15 1:30	82 74	81 83	163 157		13 11	6 3	19 14		50 43	40 17	90 60	272 231	
1:45	43	69	112		9	2	11		45	21	66	189	2,323
2:00	49	67			11	6	17		37	18	55	188	2,117
2:15	51	59	110 87		10	5	15		29	10		164	1,941 1,738
2:30 2:45	38 29	49 47			10 10	6	11 16		23 24	13 17	36 41	134 133	1,738
3:00	36	45			8	3	11		19	9	28	120	1,431
3:15	41	37	78		5	0	5		15	8	23	106	1,265
3:30	24	52	76 74		6	2	5		20	9	29	113	1,147
3:45 4:00	32 25	42 45			4	1	3		17 16	10 10	27 26	106 99	1,064 975
4:15	13	28	41		5	3	8		23	13	36	85	896
4:30	28	21	49		4	2	6		12	10	22	77	839
4:45	10 21	29			8	1	9		20 10	20 17	40 27	88	794 757
5:00 5:15	29	26 26	55		5	2	7		17		35	83 97	748
5:30	30	19			2	4	6		10		31	86	721
5:45	36	20			5	10	15		17	48	65	136	751
6:00	42 48	19 11	61 59		5 2	7	7		21 9	42 71	63 80	131 148	783 846
6:15 6:30	48 56	27	83		6	11	17		20	72	92	148 192	961
6:45	91	26	117		8	15	23		18	56	74	214	1,087
7:00	42	20			4	9	13		34	42	76	151	1,155
7:15 7:30	52 80	43 37	95 117		8 10	3	11 13		21 24	50 55	71 79	177 209	1,235 1,358
7:30	53	37	84		10	13	24		30	38	68	209 176	1,358
8:00	58	34	92		11	10	21		21	43	64	177	1,444
8:15	67	43			5	9	14		31	58	89	213	1,509
8:30	65 88	37 41	102 129		7	18 20	25 27		43 43	63 78	106 121	233 277	1,550 1,613
8:45 9:00	88	57	146	+	9	20 17	27		43	78	112	284	1,613
9:15	95	57			15	10	25		46	63	109	286	1,855
9:30	95	36	131		14	26	40		56	76	132	303	1,949
9:45	113	72 59	185 162		22 11	21 20	43 31		38 45	105	143 114	371 307	2,144
10:00 10:15	103 130	83	213		12	18	30		58	69 77		378	2,274 2,439
10:30	118	58	176		6	25	31		61	79	140	347	2,553
10:45	148	102	250		17	29	46		77	84	161	457	2,733
11:00	137	86			16	24	40		55	76	131	394	2,843
11:15 11:30	153 122	77 94	230 216		17 20	24 23	41 43		69 70	83 69	152 139	423 398	2,980 3,075
11:45	174	95			22	25	47		63	89	152	468	3,172
12:00	153	117	270		19	17	36		73	81	154	460	3,325
12:15 12:30	150 141	107 104	257 245		20 29	23 35	43 64		63 75	100 91	163 166	463 475	3,410 3,538
12:45	152	91			25	35	60		73	107	178	481	3,562
13:00	188	113	301		26	26	52		78	95	173	526	3,694
13:15	152	108	260		31	26	57		90	90	180	497	3,768
13:30 13:45	155 178	99 123	254 301		19 30	27 40	46 70		84 88	92 105	176 193	476 564	3,846 3,942
14:00	152	136			14	31	45		97	80	177	510	3,992
14:15	158	122	280		30	21	51		83	115	198	529	4,058
14:30	142	113	255		35	39	74		89		204	533	4,116
14:45 15:00	154 180	123 133	277 313		28 48	36 35	64 83		99 115	126 104	225 219	566 615	4,201 4,290
15:15	163	129			31	39			127	96		585	4,378
15:30	179	128	307		39	34	73		133	118	251	631	4,533
15:45	203	133			32	20			103	102	205	593	4,562
16:00 16:15	199 188	139 145			26 44	25 25	51 69		108 99	115 130	223 229	612 631	4,664 4,766
16:15	190	133			44	33	75		124	130	245	643	4,876
16:45	170	146	316		36	30	66		115	124	239	621	4,931
17:00	154	136	290		58	26	84		127	111	238	612	4,928
17:15 17:30	152 150	162 119			42 40	39 29			134 126	96 101		625 565	4,968 4,902
17:45	163	148			31	37	68		126	115	227	601	4,910
18:00	176	152	328		39	36	75		135	107	242	645	4,943
18:15	158	162			28	32	60		107	92	199	579	4,891
18:30 18:45	180 185	139 165	319 350	-	40 41	32 33	72 74		102 85	84 111	186 196	577 620	4,825 4,824
19:00	186	173	359		35	35	70		98	92	190	619	4,824
19:15	161	170	331		41	53	94		100	87	187	612	4,818
19:30	188	188			38	31	69		93	103	196	641	4,894
19:45 20:00	149 161	162 148	311 309		30 31	47 24	77 55		72 88	103 95	175 183	563 547	4,856 4,758
20:15	144	138			24	28	52		77	74		485	4,664
20:30	163	124	287		30	24	54		87	83	170	511	4,598
20:45	130	131	261		25	24	49		92	84	176	486	4,464
21:00 21:15	148 127	121 133	269 260		30 28	32 19	62 47		108 71	84 84	192 155	523 462	4,368 4,218
21:30	145	119			26	12	38		84	80	164	466	4,043
21:45	131	100	231		31	17	48		88	64	152	431	3,911
22:00	140	146			42	23	65 86		103	92		546 504	3,910
22:15 22:30	128 135	165 130	293 265		62 46	24 13	86 59		139 126	76 75	215 201	594 525	4,019 4,033
22:45	138	130			42	18	60		85			477	4,033
23:00	123	112	235		40	15	55		87	66	153	443	3,944
23:15 23:30	130 117	134	264 246		38 57	23 20	61 77		97 103	57 51	154 154	479 477	3,961 3,972
23:30	117	129 116		+	42	20	64		93			477	3,972
TOTAL			19,815				4,069				13,120	37,004	273,692

 TOTAL
 19,815
 4,069
 13,120
 37,004
 273,692

 MAX
 645
 4,968

Attachment C

Trip Generation Calculations

PM PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATIO	N CHAR	ACTERIS	STICS			TIONAL BUTION		GROS VOLUM			MODAL CTION ⁽¹⁾	EXT	ERNAL	TRIPS		RNAL TURE	EXT	TERNAL TE	RIPS		S-BY TURE		NET NEW FERNAL TR	
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	cent Out	İn	Out	Total	Percent	Trips	In	Out	Total	Percent	IC Trips	ln.	Out	Total	Percent	PB Trips	In	Out	Total
	1 Drive-In Bank	9	912	6.644	ksf	50%	50%	81	80	161	31.7%	51	55	55	110	0.0%	0	55	55	110	35.0%	39	36	35	71
	2																								
	3																								
	4																								
	5																								
	6				1											-									
I ∪ L	8																								
	9																								
	10																								
	11																								
	12																								
	13																								
	14																								
	15																								
	ITE Land Use Code	_		ite or Equa		_	Total:	81	81	162	31.7%	51	55	55	110	0.0%	0	55	55	110	47.0%	39	36	35	71
	912			Y=24.3(X))			40																	

(1) Multimodal reduction based on census tract data from the US Census Bureau's Means of Transportation to Work survey.

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATI	ON CHAR	ACTERIS	STICS		-	TIONAL BUTION		GROS VOLUM			MODAL CTION ⁽¹⁾	EXT	ERNAL	TRIPS		RNAL TURE	EX	TERNAL TE	RIPS	-	S-BY TURE	EX	NET NEW FERNAL TI	
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	Cent	ln	Out	Total	Percent	Trips	ln	Out	Total	Percent	IC Trips	ln	Out	Total	Percent	PB Trips	ln	Out	Total
	1 Hotel	9	310	150	room	51%	49%	46	44	90	31.7%	29	31	30	61	6.6%	4	29	28	57	0.0%	0	29	28	57
lf	2 Specialty Retail Center	9	826	2.429	ksf	44%	56%	12	15	27	31.7%	9	8	10	18	30.8%	5	6	7	13	0.0%	0	6	7	13
l	3 Walk-in Bank	9	911	4	ksf	44%	56%	22	27	49	31.7%	15	15	19	34	30.8%	11	10	13	23	0.0%	0	10	13	23
1 [4 Quality Restaurant	9	931	295	seat	67%	33%	52	25	77	31.7%	24	36	17	53	34.0%	18	26	9	35	44.0%	15	15	5	20
G	5																								
I -	6																								
0	7																								
1	8																								<u> </u>
P	9																								<u> </u>
1	10																								
2	11	_			ļ																				
I -	12	_			-																	ļ			
1 -	13 14	_																							1
-	15	_														1					1				1
ш	ITE Land Use Code		Ra	ite or Equa	ition	ı	Total:	132	111	243	31.7%	77	90	76	166	22.9%	38	71	57	128	11.7%	15	60	53	113
	310	_		Y=0.6(X)		-																			
	826		Y=	2.4*(X)+2																			IN	OUT	TOTAL

(1) Multimodal reduction based on census tract data from the US Census Bureau's Means of Transportation to Work survey.

	IN	OUT	TOTAL
PROPOSED VEHICLE TRIPS	60	53	113
WALK-IN BANK SELF-PARK REDUCTION	10	13	23
PROPOSED VEHICLE TRIPS	50	40	90
42.6% TAXI/SHARED-RIDE REDUCTION	21	17	38
PROPOSED VALET TRIPS	29	23	52

NET NEW TRIPS

Y=12.13(X)

Y=0.26(X)

911

931

Internal Capture Reduction Calculations

Methodology for A.M. Peak Hour and P.M. Peak Hour based on the *Trip Generation Handbook*, 3rd Edition, published by the Institute of Transportation Engineers

Methodology for Daily based on the average of the Unconstrained Rates for the A.M. Peak Hour and P.M. Peak Hour

	SUMMARY	(PROPOSED)	
	G	ROSS TRIP GENERATION	
	Land Use	P.M. Pea	ık Hour
		Enter	Exit
╘	Office		
INPUT	Retail	23	29
5	Restaurant	36	17
=	Cinema/Entertainment		
	Residential		
	Hotel	31	30
		90	76
		INTERNAL TRIPS	
	Lond U	P.M. Pea	ık Hour
_	Land Use	Enter	Exit
OUTPUT	Office	0	0
<u> </u>	Retail	7	9
	Restaurant	10	8
7	Cinema/Entertainment	0	0
O	Residential	0	0
	Hotel	2	2
		19	19
_	Total % Reduction	22.9	9%
	Office		
7	Retail	30.8	
OUTPUT	Restaurant	34.0)%
\supset	Cinema/Entertainment		
0	Residential		
	Hotel	6.6	%
		EXTERNAL TRIPS	
	land Uss	P.M. Pea	ık Hour
L	Land Use	Enter	Exit
5	Office	0	0
OUTPU	Retail	16	20
5	Restaurant	26	9
7	Cinema/Entertainment	0	0
J	Residential	0	0
	Hotel	29	28
		71	57

Hotel and Restaurant Valet Drop-off and Pick-up Traffic Data Summary Friday October 22, 2010

	Hotel Valet Area Observations														
	Hotel Pick- up		Hotel Pick- Up Peak	Hotel Drop- off		Hotel Drop- Off Peak			Total Hotel						
	Maximum	Hotel Pick-	Hour	Maximum	Hotel Drop-	Hour	Total Hotel		Peak Hour						
Time	Queue	Up Volume	Volume	Queue	off Volume	Volume	Volume		Volume						
18:00	0	0		3	18		18								
18:15	2	4		2	3		7								
18:30	2	6		3	7		13								
18:45	4	23	40	4	13	37	36		77						
19:00	3	9		1	3		12								
19:15	2	6		2	7		13								
19:30	1	2		3	14		16								
19:45	0	0		2	4		4								
20:00	1	3		2	7		10								
20:15	1	3		1	2		5								
20:30	3	11		2	7		18								
20:45	3	13		2	6		19								

Restaurant Valet Area Observations										
	Restaurnt		Restaurant	Restaurant		Restaurant				
	Pick-up	Restaurant	Pick-Up Peak	Drop-off	Restaurant	Drop-off				
	Maximum	Pick-Up	Hour	Maximum	Drop-off	Peak Hour				
Time	Queue	Volume	Volume	Queue	Volume	Volume				
18:00	5	17		0	0					
18:15	4	13		2	7	8				
18:30	3	9		0	0					
18:45	3	18		0	0					
19:00	4	15		1	1					
19:15	4	14		1	1					
19:30	5	18		1	1					
19:45	6	27		1	2					
20:00	5	18	81	1	1					
20:15	5	15		0	0					
20:30	5	15		0	1					
20:45	6	33		0	0					

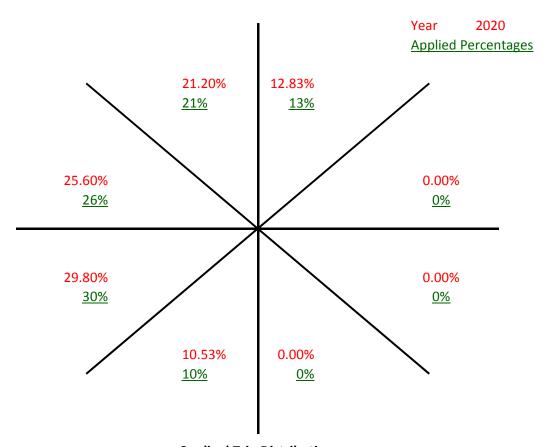
	Taxi vs Valet Trips											
						Total Taxi	Total Site	Total Site				
	Valet Pick-	Valet Drop-	Total Valet	Taxi Pick-up	Taxi Drop-	Pick-up	Pick-up	Drop-off	Total Site			
Time	up Trips	off Trips	Trips	Trips	off Trips	Trips	Trips	Trips	Trips			
18:00	1	11	12	16	7	23	17	18	35			
18:15	5	6	11	12	4	16	17	10	27			
18:30	3	3	6	12	4	16	15	7	22			
18:45	32	10	42	9	3	12	41	13	54			
19:00	17	1	18	7	3	10	24	4	28			
19:15	12	5	17	8	3	11	20	8	28			
19:30	12	12	24	8	3	11	20	15	35			
19:45	20	4	24	7	2	9	27	6	33			
20:00	10	4	14	11	4	15	21	8	29			
20:15	3	1	4	15	1	16	18	2	20			
20:30	15	4	19	11	4	15	26	8	34			
20:45	35	2	37	11	4	15	46	6	52			

Taxi Trips Observed 42.6%

Attachment D

Trip Distribution

Cardinal Distribution for TAZ 644



Cardinal Trip Distribution

Cardinal Direction	Percentag	ge of Trips	2020	2020	
Cardinal Direction	2010	2040	Interpolated	Rounded	
North-Northeast	11.2%	16.10%	12.83%	13.00%	
East-Northeast	0.0%	0.00%	0.00%	0.00%	
East-Southeast	0.0%	0.00%	0.00%	0.00%	
South-Southeast	0.0%	0.00%	0.00%	0.00%	
South-Southwest	9.6%	12.40%	10.53%	10.00%	
West-Southwest	29.7%	30.00%	29.80%	30.00%	
West-Northwest	27.3%	22.20%	25.60%	26.00%	
North-Northwest	22.1%	19.40%	21.20%	21.00%	
Total	99.9%	100.1%	99.97%	100.00%	

Directional Trip Distribution Report MIAMI-DADE LONG RANGE TRANSPORTATION PLAN UPDATE TO THE YEAR 2040



	Miami-Dade 2010 Directional Distribution Summary										
Orig	gin TAZ				(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	

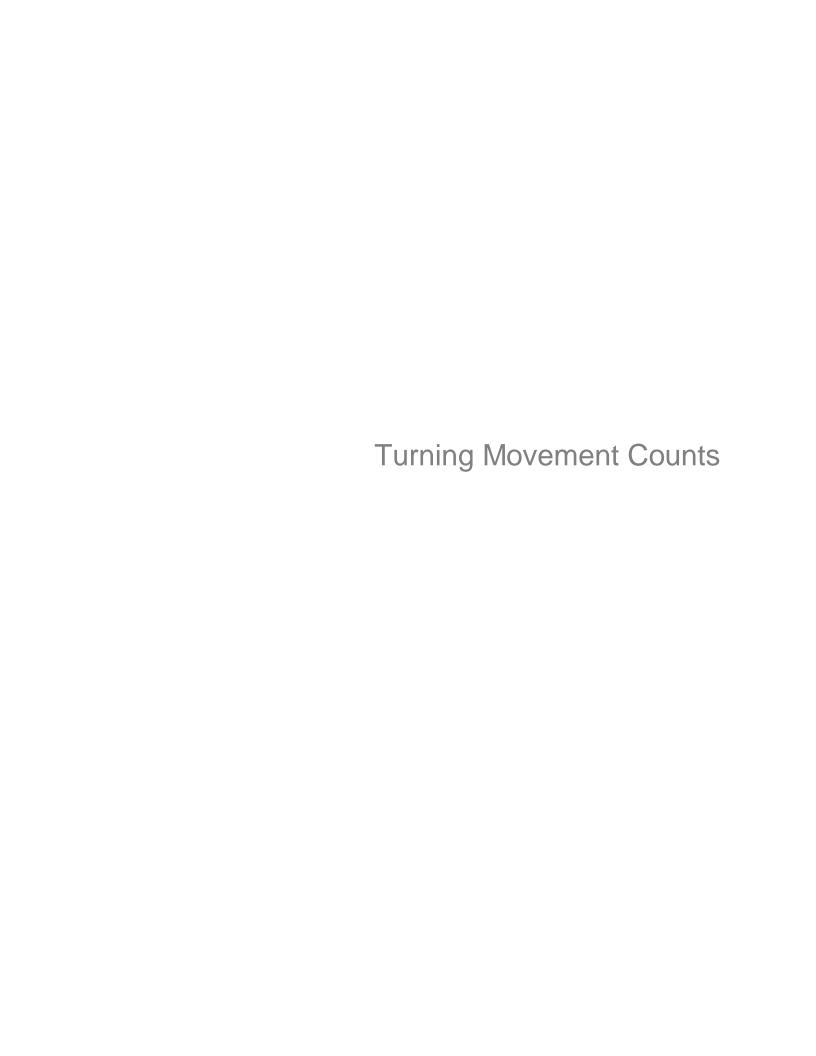


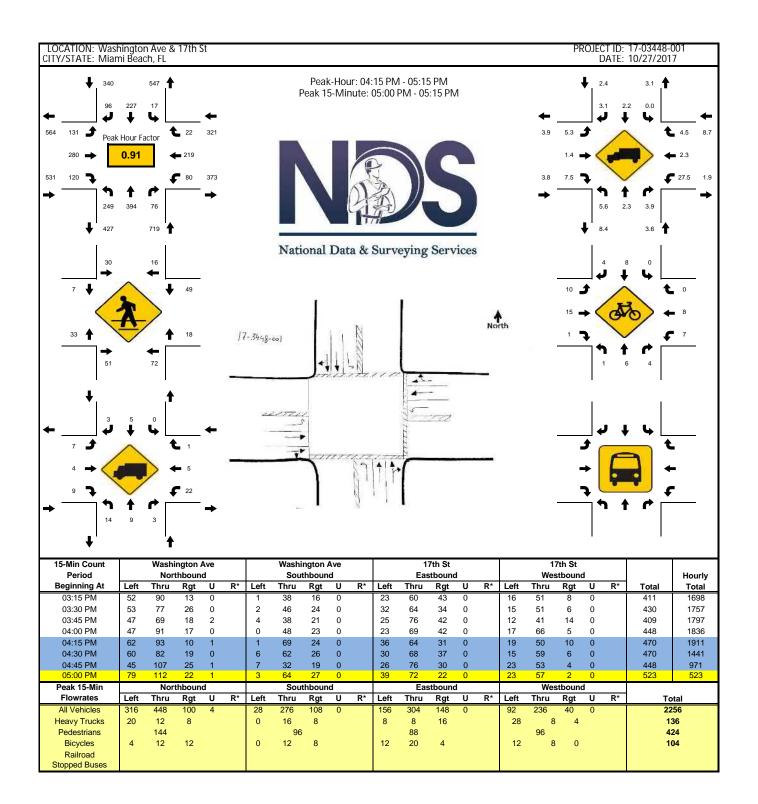


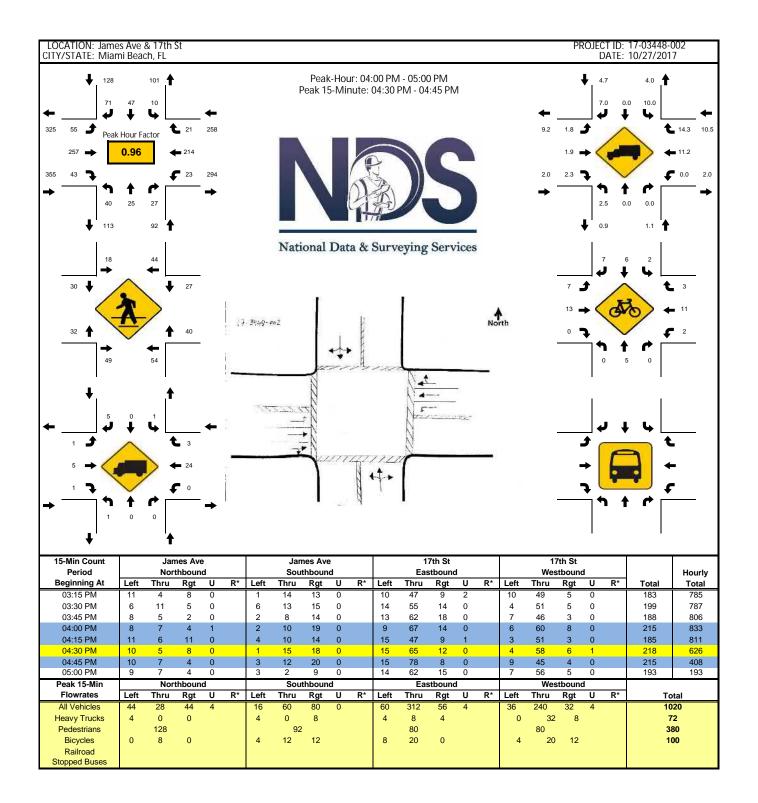
Miami-Dade 2040 Directional Distribution Summary											
Orig	in TAZ				(Cardinal I	Direction	S			
County TAZ	Regional TAZ		NNE	ENE	ESE	SSE	ssw	wsw	WNW	NNW	Total
636	3536	PERCENT	19.5	0.0	0.0	8.2	14.8	29.5	14.8	13.3	
637	3537	TRIPS	374	82	83	225	55	396	261	151	1,627
637	3537	PERCENT	23.0	5.0	5.1	13.8	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	,
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	20,002
656	3556	TRIPS	565	0.0	0.0	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	2,700

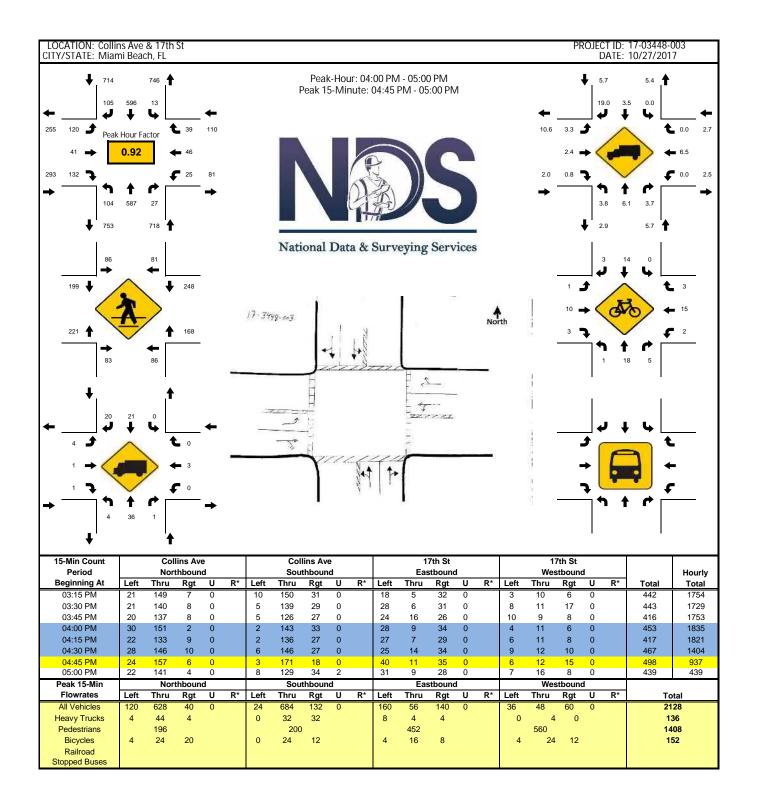
Appendix C

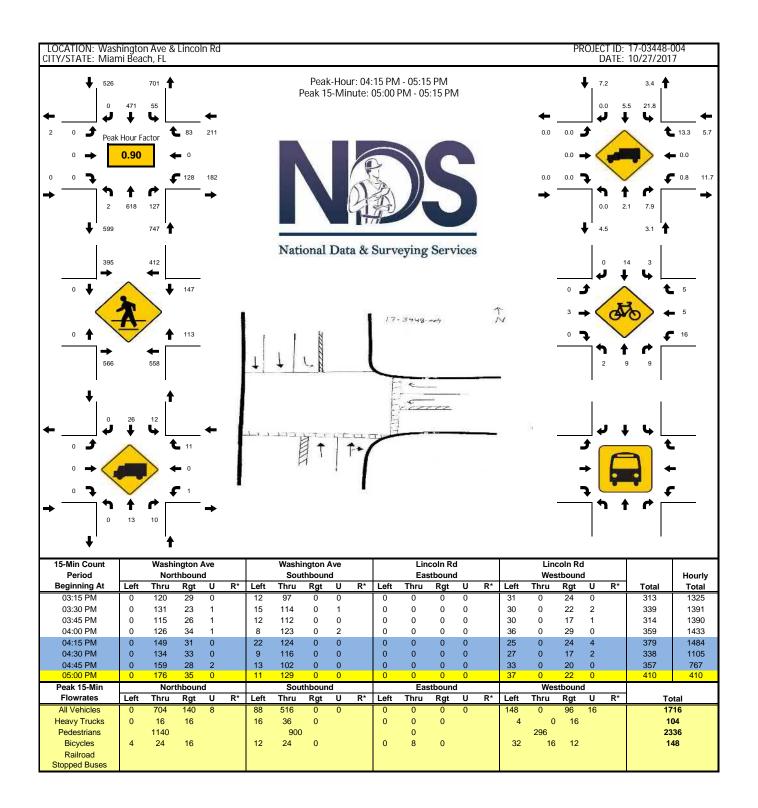
Traffic Data

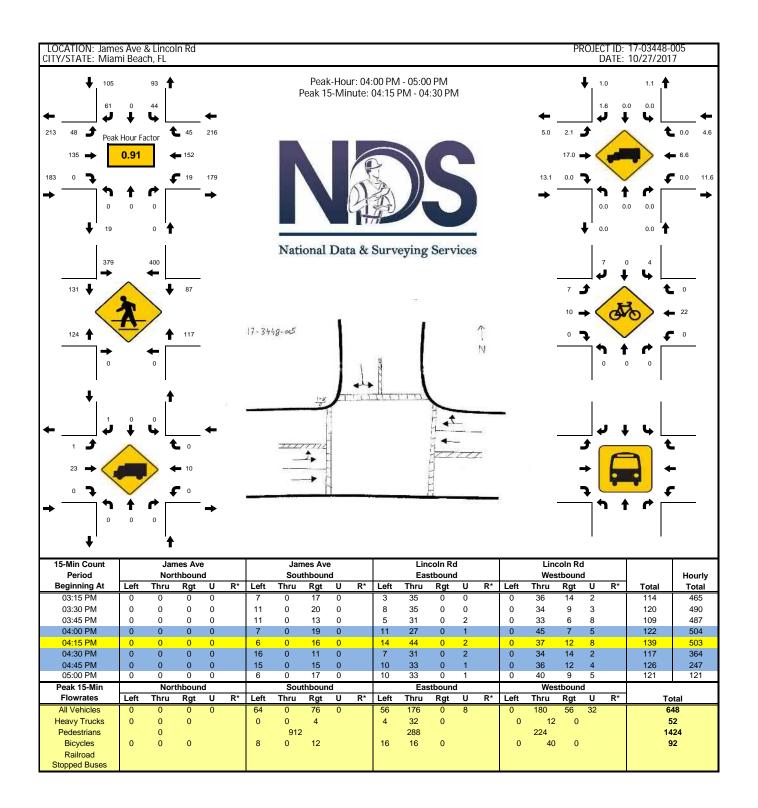


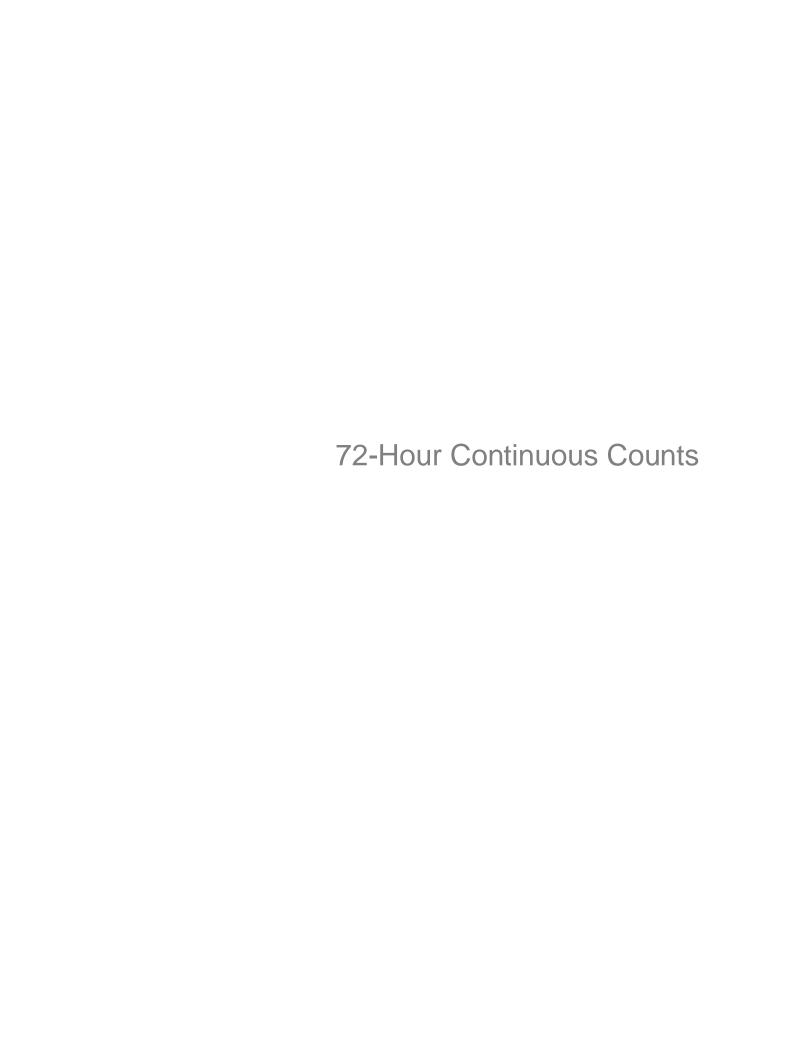












72-Hour Continuous Count Traffic Data Summary											
Peak 2-Hour Period Peak 2-Hour Traffi											
Date	Peak 2-Hour Period	Volume									
Thursday, April 7, 2016	4:00 P.M 6:00 P.M.	5,335 vehicles									
Friday, April 8, 2016	3:15 P.M 5:15 P.M.	5,855 vehicles									
Saturday, April 9, 2016	3:30 P.M 5:30 P.M.	4,968 vehicles									

Thursday Continuous Counts

		13-310	03-002	16-3112-002					16-311					
Thursday Time	17 St bet. Mich NB/EB	igan Ave & Jeffe SB/WB	erson Ave Total	Convention Cer NB/EB	nter Dr bet. 17 : SB/WB	St & Dade Blvd Total			Meridian Ave b	sB/WB	e Blvd Total		Grand Total	2-Hour Peak
0:00	49	45	94	25	4	29			72	14	86		209	
0:15 0:30	43 38	55 48		15 16	5	20			53 30		77 44		195 151	
0:45	40	31	71	9	1	10			20	14	34		115	
1:00 1:15	30 30	54 31		3	4	6 7			32 26		44 37		134 105	
1:30	21	32	53	8	4	12			18		29		94	
1:45 2:00	21 24	31 22		1	0	5 1			11 11		22 18		79 65	1,082 938
2:15	20	15	35	1	1	2			10	6	16		53	796
2:30 2:45	17 13	20 18		1	1	2			10 8		17 15		55 48	700 633
3:00	13	15		4	2	6			6		11		45	544
3:15 3:30	15 14	10 18		1	0	1			12 9		12 14		39 47	478 431
3:45	11	8		2	0	2			5		10		31	383
4:00 4:15	8 12	10 10		3 1	0	5 1			5 9		8 17		31 40	349 336
4:30	18	10		2	2	4			8		25		57	338
4:45 5:00	14 14	9		3	4	7			11 8		25 23		53 56	343 354
5:15	28	14		1	1	2			8		28		72	387
5:30 5:45	31 34	13 12		4	6 11				7 11		42 66		92 127	432 528
6:00	54	20		4	10				21 17		84		172 248	669
6:15 6:30	92 94	31 21		5 8	27 24	32 32			23		93 113		248 260	877 1,080
6:45	101	30		11	31	42			39		127		300	1,327
7:00 7:15	95 80	41 42		35 16	29 46				51 44		135 141		335 325	1,606 1,859
7:30	85	37	122	32	30	62			50	97	147		331	2,098
7:45 8:00	106 89	50 58		16 15	27 33	43 48			53 60		144 162		343 357	2,314 2,499
8:15	102	57	159	20	45	65			64	120	184		408	2,659
8:30 8:45	123 99	62 69		36 23	46 55				73 67		193 190		460 436	2,859 2,995
9:00	128	75	203	24	52	76			76	118	194		473	3,133
9:15 9:30	126 126	75 74		20 26	53 54	73 80			62 44		184 164		458 444	3,266 3,379
9:45	137	91		38	44	82			64		202		512	3,548
10:00 10:15	116 105	89 93		20 29	44 30	64 59			63 53		169 137		438 394	3,629 3,615
10:30	117	101		22	22				71		177		439	3,594
10:45 11:00	112 118	70 82		22 19	52 37	74 56			70 67		173 161		429 417	3,587 3,531
11:15	126	108		45	43				84	97	181		503	3,576
11:30 11:45	137 129	96 114		28 36	35 40	63 76			77 83		196 201		492 520	3,624 3,632
12:00	135	125	260	25	49	74			92	91	183		517	3,711
12:15 12:30	126 140	122 117		36 46	37 29	73 75			90 95		178 205		499 537	3,816 3,914
12:45	153	112		36					108		220		554	4,039
13:00 13:15	136 162	129 132		36 38	43 43				88 92		190 197		534 572	4,156 4,225
13:30	142	130		58	41	99			98	107	205		576	4,309
13:45 14:00	167 166	109 130		34 55					101 89	96 83	197 172		539 564	4,328 4,375
14:15	152	113		42	39				110		226		572	4,448
14:30 14:45	156 131	132 118		51 45	42 45				138 131		273 246		654 585	4,565 4,596
15:00	150	112		72					173		275		629	4,691
15:15 15:30	136 133	149 157		65 68	27 30				168 200		288 296		665 684	4,784 4,892
15:45	138	98	236	45	35	80			149	102	251		567	4,920 5,067
16:00 16:15	152 164	177 148	312	72 54	18	72			171 173	107	280		711 664	5,159
16:30 16:45	157 153	136 134		56 48					159 157		283 281		657 648	5,162 5,225
17:00	137	134 160	297	77	23	100			201	74	275		672	5,268
17:15 17:30	148 131	128 155		78 69					210 182		308 273		699 654	5,302 5,272
17:45	145	149	294	60	26	86			167	83	250		630	5,335
18:00 18:15	121 125	134 140		73 41					167 164				606 565	5,230 5,131
18:30	121	147	268	43	24	67			133	82	215		550	5,024
18:45 19:00	134 113	131 126		26 33	25 25				121 99		206 178		522 475	4,898 4,701
19:15	117	125	242	35	23	58			97	71	168		468	4,470
19:30 19:45	127 125	112 122		40 30	25 12				83 88		166 162		470 451	4,286 4,107
20:00	116	110	226	24	23	47			85	54	139		412	3,913
20:15 20:30	108 93	118 94		28 29	16 10				87 81		165 140		435 366	3,783 3,599
20:45	126	99	225	19	23	42			70	61	131		398	3,475
21:00 21:15	96 88	97 107		19 21	10 15				85 57		138 114		360 345	3,360 3,237
21:30	97	96	193	29	16	45			78	63	141		379	3,146
21:45 22:00	105 107	86 86		23 24	20 16				67 74		126 129		360 362	3,055 3,005
22:15	97	91	188	29	11	40			89	43	132		360	2,930
22:30 22:45	92 102	88 80		18 25	15 11				59 58		112 103		325 321	2,889 2,812
23:00	83	93	176	24	9	33			67	44	111		320	2,772
23:15 23:30	94 93	89 76		39 30	13 4				74 90		109 123		344 326	2,771 2,718
23:45	71	83		15					80				287	2,645
TOTAL			17,047			4,822					14,008		35,877	273,524
												MAX	711	5,335

Friday Continuous Counts

Section Property		13-3103-002				16-3112-002				16-3112-003						
Section Sect	Friday	17 St bet. Michig			Con	nvention Cen					Meridian Ave b					
Section Sect							SB/WB				-					2-Hour Peak
1. 1. 1. 1. 1. 1. 1. 1.							8									
1.00							3									
The							2									
1.50							5									
1.50							3									
13							0	4								1,395
Dec							1									1,204
1.50							2									
10							1									
Yes Y							1	4								742
According Acco							0									646
April							2									
1							1									492
APP	4:15						0	5								452
Section Sect							_									
10							/ /									
5-90							3									485
Section 1	5:30						6	8								503
Color																608
A			,													
4-66																
The color of the	6:45	92	26	118			35	51			30	100			299	1,341
Property																1,615
The color of the																
ACC 100																2,314
\$80	8:00	116	48	164		19	36	55			67	106	173		392	2,551
855 176 176 177 177 177 177 177 178																2,737
990 158 88 278 77 35 54 12 166 157 157 166 1317 131 132 132 136 132 136 132 136 1317 1318																2,908 3,110
986 177 201 261 278 81 119 201 409 3,000 986 127 202 202 20 40 78 3 107 131 408 3,000 903 112 203 128 203 101 201 101 201 101 401 3,000 202 203 121 101 101 401 401 777 778 181 102 101 401 777 778 341 101 101 202 202 203 103 203 103 203																3,235
PS																
1950 128																
100 100																
100 100 100 120 35 65 80 86 95 170 170 3515																3,796
11:05																3,838
11:35 150 59 257 34 47 81 50 507 107 558 5.59 11:50 100 105 266 55 65 65 65 65 65																
13-30																
1200 138																
12:15																4,039
1245 146																
1245 188 197 291 37 50 67 111 144 225 693 4.415 1300 171 137 308 442 40 82 139 131 270 660 4.525 1315 170 135 305 42 53 395 120 129 240 640 4.575 1330 200 135 333 55 41 92 120 129 240 640 4.575 13.55 1331 135 333 55 41 92 120 129 240 640 4.575 13.55 130 131 131 131 134 45 60 120 131 131 270 663 4.585 13.55 131 131 131 131 134 45 60 120 131 131 270 663 4.585 14.51 131 130 265 44 17 79 120 131 132 280 665 5.546 14.53 140 120 236 66 41 110 150 138 289 665 5.546 14.53 150 135 135 330 70 44 79 70 70 15.50 135 135 230 70 46 175 177 127 230 721 5.304 15.51 130 131 131 131 131 131 131 131 131 131 131 131 131 15.51 130 131 13																
11:15																4,415
13:30 203 135 338 51 41 92 1119 116 235 665 4.200 13:46 182 155 333 33 64 48 2 1 122 125 227 662 4.286 14:00 182 128 310 54 45 59 1118 111 229 663 5.000 14:15 115 110 265 441 37 77 79 1131 100 231 574 14:30 167 179 185 186 187 187 187 187 187 187 187 187 187 187																4,562
1348 182 151 333 38 44 82 112 125 207 662 433 1400 182 132 310 5 54 455 99 118 118 111 229 638 5.00 1415 155 110 225 44 137 77 1131 100 221 574 5.01 1430 167 129 226 69 41 110 150 139 229 658 5.04 1443 189 126 315 49 44 39 116 156 329 770 5.14 1430 133 126 228 77 44 130 156 315 49 44 39 116 32 22 22 20 70 5.44 1444 139 136 126 231 148 20																
14:00 13:22 12:8 310 5:4 4:5 59 11:8 11:1 22:9 6:38 5.00 14:30 16:7 12:9 26:6 4:1 37 72 13:1 100 23:1 57:4 5.010 14:30 16:7 12:9 26:6 6:9 4:1 11:0 15:0 139 289 6:65 5.16 14:45 18:9 12:6 31:5 4:0 4:4 5:9 15:5 13:6 292 700 5.243 15:00 15:3 14:5 298 79 4:6 12:5 17.7 12:1 298 72:1 5.306 15:15 16:6 13:8 307 3:8 5:5 3:3 13:8 109 293 73:1 5.366 15:30 15:4 14:1 31:5 6:3 4:3 11:6 21:2 11:0 342 73:3 5.368 15:30 15:4 14:1 31:5 6:3 4:3 11:6 21:2 11:0 342 73:8 5.506 15:40 3:4 14:1 31:5 5:5 4:3 15:6 3:4 11:6 21:2 11:0 342 73:8 5.506 15:40 3:4 14:1 31:5 5:2 3:7 10:0 11:2 3:0 3:0 3:8 5.506 16:00 3:4 14:1 3:5 3:2 3:7 3:0 3:0 3:0 3:0 3:0 3:0 3:0 3:0 16:00 3:4 14:1 3:5 3:2 3:0																
1430 167 129 226 68 41 110 150 139 288 665 5,146 1435 180 126 315 49 44 93 156 336 222 700 5,248 1500 1513 145 228 79 46 125 177 121 228 721 5,300 1515 146 138 307 81 50 131 184 109 231 731 5,368 1530 194 141 335 63 44 106 222 110 342 783 5,500 1545 186 133 337 55 43 98 174 129 300 738 5,500 1560 186 140 333 58 31 89 192 94 266 708 5,500 1561 187 132 319 72 23 109 165 128 233 722 270 1645 159 141 300 67 26 93 162 116 288 668 5,760 1700 170 178 322 89 41 130 128 104 302 788 5,500 1715 166 168 334 68 35 103 180 92 277 709 5,531 1730 168 147 315 59 28 87 1175 109 246 668 5,760 1800 151 154 305 556 36 37 1175 109 246 668 5,760 1815 169 170																5,004
1445 188																5,010
15:00																
15:15																
15.45																5,386
16:00																5,504
16:15 187 132 319 72 37 109 165 128 293 721 5.797 16:30 170 158 328 72 22 100 162 119 281 709 5.511 16:40 159 141 300 67 26 93 162 126 288 681 5.792 17:30 166 168 334 68 35 103 180 92 277 709 5.83 17:35 166 168 334 68 35 103 180 92 277 709 5.83 17:35 170 153 332 58 30 88 138 111 249 666 5.638 18:00 151 154 305 56 26 82 153 111 284 661 5.766 18:30 152 144 296 43 31																
16:30																5,650
17:00 174 178 352 88 84 11 130 198 104 302 784 5.855 17:10 17:15 166 168 334 668 35 103 1880 92 272 779 5.833 17:30 168 147 315 59 28 87 17:5 109 284 686 5.736 17:45 170 153 323 58 30 88 188 1111 249 666 5.568 18:50 151 154 305 56 26 82 153 111 244 665 151 5.601 18:15 163 166 329 50 32 82 170 103 273 684 5.564 18:45 172 130 302 59 33 88 2 170 103 273 684 5.564 18:45 172 130 302 59 36 95 127 96 223 6620 5.418 19:00 155 115 270 47 49 96 115 90 205 571 5.205 19:15 168 136 304 30 30 37 67 106 118 224 595 509 1185 564 4.969 19:45 118 12 24 595 5.091 19:45 110 12 222 49 33 82 19:30 176 119 295 44 40 84 19:50 19:45 19:50 132 222 49 33 62 19:30 136 59 19:91 19:91 18:2 24 595 5.091 19:45 110 12 222 49 33 82 19:10 19:10 118 224 595 5.091 19:45 116 12 222 49 49 33 82 19:10 19:10 118 224 595 5.091 19:45 116 12 222 49 49 33 82 19:10 19:10 118 224 595 5.091 19:45 116 12 222 49 49 33 82 19:10 19:10 118 224 595 5.091 19:45 116 12 222 49 49 33 82 19:10 19:1	16:30	170	158	328		72	28	100			162	119	281		709	5,811
17:15																5,792
17:30																
17.45																5,736
18:15	17:45	170	153	323		58	30	88	_	_	138	111	249		660	5,658
18:30 152 144 296 43 31 74 135 119 254 624 5.479 18:45 172 130 302 59 36 95 127 96 223 620 5.418 19:00 155 115 270 47 49 96 115 90 205 571 5.205 19:15 168 136 304 30 37 67 106 118 224 595 5.091 19:30 176 119 295 44 40 84 95 90 185 564 4.969 19:45 160 132 292 49 33 82 91 97 188 552 4.871 20:00 136 85 221 30 33 63 91 91 91 182 466 4.686 20:15 125 122 247 41 28 69 98 108 206 522 4.524 20:30 154 104 258 62 41 103 90 88 178 539 4.439 20:45 127 115 242 52 27 79 85 67 152 2473 4.42 21:00 117 121 238 22 20 42 79 75 154 434 4.155 21:15 124 123 247 26 12 38 74 84 158 443 4.003 21:15 124 123 247 27 27 17 44 44 45 47 48 47 48 48 48 21:16 17 18 234 27 27 27 27 27 27 27 2																5,601
18:45																
19:00 155 115 270 47 49 96 115 90 205 571 5.205 19:15 168 136 304 30 37 67 106 118 224 5595 5.091 19:30 176 119 295 44 40 84 95 90 185 564 4.969 19:45 160 132 292 49 33 82 91 97 188 562 4.871 20:00 136 85 221 30 33 63 91 91 91 182 466 4.666 20:15 125 122 247 41 28 69 98 108 206 522 4.524 20:30 154 104 258 62 41 103 90 88 178 539 4.439 20:45 127 115 242 52 27 79 85 67 152 473 4.292 21:10 117 121 238 22 20 42 79 75 154 434 4.155 21:15 124 123 247 26 12 38 74 84 158 443 4.003 21:30 117 114 231 26 18 44 92 77 68 145 425 22:00 133 94 227 27 17 44 70 63 133 404 3.680 22:15 128 124 252 20 18 38 78 59 137 427 3.585 22:15 128 124 252 20 18 38 78 59 137 427 3.585 22:30 109 121 230 33 12 45 87 53 140 415 3.461 22:45 131 182 313 20 21 41 73 55 128 482 3.470 23:30 149 122 271 44 18 62 130 49 179 515 3.643 23:45 119 85 204 38 19 57 121 40 161 422 3.684 23:45 119 85 204 38 19 57 121 40 161 422 3.684 23:45 119 85 204 38 19 57 121 40 161 422 3.684 23:45 119 85 204 38 19 57 421 421 421 421 422 3.684 24:45 129 120 121 120 131 131 244 131 244 131 244 131 244 131 244 131 244 131 244 131 244 131 245 131 131 244 131 244 131 245 131 131 244 131 245 131 131 244 131 245 131 131 244 131 245 131 131 244 131 245 131 131 244 131 245 131 131 244 131 245 131 131 244 131 245 131 131 244 131 245 131 131 244 131 245 131 131 244 131 245 131 131																5,418
19:30 176 119 295 44 40 84 95 90 185 564 4,969 19:45 160 132 292 49 33 82 91 97 188 562 4,871 20:00 136 85 221 33 33 63 991 91 11 182 466 4,686 20:15 125 122 247 41 28 69 98 108 206 522 4,524 20:30 154 104 258 62 41 103 90 88 178 539 4,439 20:45 127 115 422 552 27 79 885 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12<	19:00	155	115	270		47	49	96			115	90	205		571	5,205
19:45 160 132 292 49 33 82 91 97 188 562 4,871 20:00 136 85 221 30 33 63 91 91 182 466 4,686 20:15 1225 122 247 41 28 69 98 108 206 522 4,524 20:30 154 104 258 62 41 103 90 88 178 539 4,439 20:45 127 115 242 52 27 79 85 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:30 117 114 231 26 18 44 <td></td>																
20:00 136 85 221 30 33 63 91 91 182 466 4,686 20:15 125 122 247 41 28 69 98 108 206 522 4,524 20:30 154 104 258 40 62 41 103 90 88 178 539 4,439 20:45 127 115 242 52 27 79 85 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:15 124 123 247 26 18 <td></td>																
20:15 125 122 247 41 28 69 98 108 206 522 4,524 20:30 154 104 258 62 41 103 90 88 178 539 4,439 20:45 127 115 242 52 27 79 85 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,03 21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:45 127 109 236 23 21 44 <td></td> <td>4,686</td>																4,686
20:45 127 115 242 52 27 79 85 67 152 473 4,292 21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:00 133 94 227 27 17 44 70 63 133 404 3,680 22:15 128 124 252 20 18 38 78 59 137 427 3,565 22:35 128 124 252 20 18 38	20:15	125	122	247		41	28	69			98	108	206		522	4,524
21:00 117 121 238 22 20 42 79 75 154 434 4,155 21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:00 133 94 227 27 17 44 70 63 133 404 3,682 22:15 128 124 252 20 18 38 78 59 137 427 3,585 22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41																4,439
21:15 124 123 247 26 12 38 74 84 158 443 4,003 21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:00 133 94 227 27 17 44 70 63 133 404 3,580 22:15 128 124 252 20 18 38 78 59 137 427 3,580 22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53																
21:30 117 114 231 26 18 44 92 73 165 440 3,879 21:45 127 109 236 23 21 44 77 68 145 425 3,742 22:00 133 94 227 27 17 44 70 63 133 404 3,680 22:15 128 124 252 20 18 38 78 59 137 427 3,585 22:30 109 121 230 33 12 45 87 53 140 415 3,481 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72																4,003
22:00 133 94 227 27 17 44 70 63 133 404 3,680 22:15 128 124 252 20 18 38 78 59 137 427 3,585 22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72 135 64 199 515 3,687 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 <td>21:30</td> <td>117</td> <td>114</td> <td>231</td> <td></td> <td>26</td> <td>18</td> <td>44</td> <td></td> <td></td> <td>92</td> <td>73</td> <td>165</td> <td></td> <td>440</td> <td>3,879</td>	21:30	117	114	231		26	18	44			92	73	165		440	3,879
22:15 128 124 252 20 18 38 78 59 137 427 3,585 22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72 135 64 199 515 3,687 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684																3,742
22:30 109 121 230 33 12 45 87 53 140 415 3,461 22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72 135 64 199 515 3,615 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684																
22:45 131 182 313 20 21 41 73 55 128 482 3,470 23:00 127 156 283 33 20 53 109 62 171 507 3,543 23:15 113 131 244 51 21 72 135 64 199 515 3,615 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684																3,461
23:15 113 131 244 51 21 72 135 64 199 515 3,615 23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684	22:45	131	182	313		20	21	41			73	55	128		482	3,470
23:30 149 122 271 44 18 62 130 49 179 512 3,687 23:45 119 85 204 38 19 57 121 40 161 422 3,684																3,543
23:45 119 85 204 38 19 57 121 40 161 422 3,684																
																3,684
TOTAL 19,770 5,577 15,650 40,997 308,782				19,770				5,577								

TOTAL 19,770 5,577 15,650 40,997 308,782 MAX 784 5,855

Saturday Continuous Counts

	1	13-310	2 002			16-311	12.002			16 21:	12.002		
Saturday	17 St bet. Michi			Co	onvention Cen		St & Dade Blvd		Meridian Ave b	16-31: et. 17 St & Dad			
Time	NB/EB	SB/WB	Total		NB/EB	SB/WB	Total		NB/EB	SB/WB	Total	Grand Total	2-Hour Peak
0:00 0:15	93 87	115 92	208 179		47 39	10 11	57 50		90 70	39 41	129 111	394 340	
0:30	104	97	201		21	16	37		62	37		337	
0:45	80	84	164		17	11	28		57	39	96	288	
1:00	64	87	151		17	12	29		54	38	92	272	
1:15 1:30	82 74	81 83	163 157		13 11	6 3	19 14		50 43	40 17	90 60	272 231	
1:45	43	69	112		9	2	11		45	21	66	189	2,323
2:00	49	67			11	6	17		37	18	55	188	2,117
2:15	51	59	110 87		10	5	15		29	10		164	1,941 1,738
2:30 2:45	38 29	49 47			10 10	6	11 16		23 24	13 17	36 41	134 133	1,738
3:00	36	45			8	3	11		19	9	28	120	1,431
3:15	41	37	78		5	0	5		15	8	23	106	1,265
3:30	24	52	76 74		6	2	5		20	9	29	113	1,147
3:45 4:00	32 25	42 45			4	1	3		17 16	10 10	27 26	106 99	1,064 975
4:15	13	28	41		5	3	8		23	13	36	85	896
4:30	28	21	49		4	2	6		12	10	22	77	839
4:45	10 21	29			8	1	9		20 10	20 17	40 27	88	794 757
5:00 5:15	29	26 26	55		5	2	7		17		35	83 97	748
5:30	30	19			2	4	6		10		31	86	721
5:45	36	20			5	10	15		17	48	65	136	751
6:00	42 48	19 11	61 59		5 2	7	7		21 9	42 71	63 80	131 148	783 846
6:15 6:30	48 56	27	83		6	11	17		20	72	92	148 192	961
6:45	91	26	117		8	15	23		18	56	74	214	1,087
7:00	42	20			4	9	13		34	42	76	151	1,155
7:15 7:30	52 80	43 37	95 117		8 10	3	11 13		21 24	50 55	71 79	177 209	1,235 1,358
7:30	53	37	84		10	13	24		30	38	68	209 176	1,358
8:00	58	34	92		11	10	21		21	43	64	177	1,444
8:15	67	43			5	9	14		31	58	89	213	1,509
8:30	65 88	37 41	102 129		7	18 20	25 27		43 43	63 78	106 121	233 277	1,550 1,613
8:45 9:00	88	57	146	+	9	17	27		43	78	112	284	1,613
9:15	95	57			15	10	25		46	63	109	286	1,855
9:30	95	36	131		14	26	40		56	76	132	303	1,949
9:45	113	72 59	185 162		22 11	21 20	43 31		38 45	105	143 114	371 307	2,144
10:00 10:15	103 130	83	213		12	18	30		58	69 77		378	2,274 2,439
10:30	118	58	176		6	25	31		61	79	140	347	2,553
10:45	148	102	250		17	29	46		77	84	161	457	2,733
11:00	137	86			16	24	40		55	76	131	394	2,843
11:15 11:30	153 122	77 94	230 216		17 20	24	41 43		69 70	83 69	152 139	423 398	2,980 3,075
11:45	174	95			22	25	47		63	89	152	468	3,172
12:00	153	117	270		19	17	36		73	81	154	460	3,325
12:15 12:30	150 141	107 104	257 245		20 29	23 35	43 64		63 75	100 91	163 166	463 475	3,410 3,538
12:45	152	91			25	35	60		73	107	178	481	3,562
13:00	188	113	301		26	26	52		78	95	173	526	3,694
13:15	152	108	260		31	26	57		90	90	180	497	3,768
13:30 13:45	155 178	99 123	254 301		19 30	27 40	46 70		84 88	92 105	176 193	476 564	3,846 3,942
14:00	152	136			14	31	45		97	80	177	510	3,992
14:15	158	122	280		30	21	51		83	115	198	529	4,058
14:30	142	113	255		35	39	74		89		204	533	4,116
14:45 15:00	154 180	123 133	277 313		28 48	36 35	64 83		99 115	126 104	225 219	566 615	4,201 4,290
15:15	163	129			31	39			127	96		585	4,378
15:30	179	128	307		39	34	73		133	118	251	631	4,533
15:45	203	133			32	20			103	102	205	593	4,562
16:00 16:15	199 188	139 145			26 44	25 25	51 69		108 99	115 130	223 229	612 631	4,664 4,766
16:15	190	133			44	33	75		124	130	245	643	4,876
16:45	170	146	316		36	30	66		115	124	239	621	4,931
17:00	154	136	290		58	26	84		127	111	238	612	4,928
17:15 17:30	152 150	162 119			42 40	39 29			134 126	96 101		625 565	4,968 4,902
17:45	163	148			31	37	68		126	115	227	601	4,910
18:00	176	152	328		39	36	75		135	107	242	645	4,943
18:15	158	162			28	32	60		107	92	199	579	4,891
18:30 18:45	180 185	139 165	319 350	-	40 41	32 33	72 74		102 85	84 111	186 196	577 620	4,825 4,824
19:00	186	173	359		35	35	70		98	92	190	619	4,824
19:15	161	170	331		41	53	94		100	87	187	612	4,818
19:30	188	188			38	31	69		93	103	196	641	4,894
19:45 20:00	149 161	162 148	311 309		30 31	47 24	77 55		72 88	103 95	175 183	563 547	4,856 4,758
20:15	144	138			24	28	52		77	74		485	4,664
20:30	163	124	287		30	24	54		87	83	170	511	4,598
20:45	130	131	261		25	24	49		92	84	176	486	4,464
21:00 21:15	148 127	121 133	269 260		30 28	32 19	62 47		108 71	84 84	192 155	523 462	4,368 4,218
21:30	145	119			26	12	38		84	80	164	466	4,043
21:45	131	100	231		31	17	48		88	64	152	431	3,911
22:00	140	146			42	23	65 86		103	92		546	3,910
22:15 22:30	128 135	165 130	293 265		62 46	24 13	86 59		139 126	76 75	215 201	594 525	4,019 4,033
22:45	138	130			42	18	60		85			477	4,033
23:00	123	112	235		40	15	55		87	66	153	443	3,944
23:15 23:30	130 117	134	264 246		38 57	23 20	61 77		97 103	57 51	154 154	479 477	3,961 3,972
23:30	117	129 116		+	42	20	64		93			477	3,972
TOTAL			19,815				4,069				13,120	37,004	273,692

 TOTAL
 19,815
 4,069
 13,120
 37,004
 273,692

 MAX
 645
 4,968

Signal Timings

TOD Schedule Report

for 2808: Washington Av&17 St

Print Time: Print Date: 6/30/2017 2:04 AM

Asset		Intersection Schedu Washington Av&17 St DOW-6					<u> Plan #</u>		Cycle	<u>Offset</u>	TOD Setting	<u>Active</u> <u>PhaseBank</u>	Active Maximum
2808	Wa	shington Av8	k17 St	D	OW-6		N/A	1	0	0	N/A	0	Max 0
			<u> </u>	Splits_									
<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>						
NBL	SBT	EBL	WBT	-	NBT	-	EBT						
0	0	0	0	0	0	0	0						
4			\leftarrow	ı			\rightarrow						
2	* -2, ,												

Active Phase	Bank: Pl	nase Bank 1						
<u>Phase</u>	<u>Walk</u>	Don't Walk	Min Initial	Veh Ext	Max Limit	<u>Max 2</u>	<u>Yellow</u>	<u>Red</u>
	Phase Bank							
	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3		
1 NBL	0 - 0 - 0	0 - 0 - 0	5 - 5 - 5	2 - 2 - 2	5 - 5 - 5	9 - 7 - 9	3.7	2.3
2 SBT	5 - 5 - 5	5 16 - 16 - 16	5 - 5 - 5	1 - 1 - 1	15 - 15 - 15	0 - 15 - 15	4	2.3
3 EBL	0 - 0 - (0 - 0 - 0	5 - 5 - 5	2 - 2 - 2	5 - 5 - 5	8 - 5 - 8	3.7	3.4
4 WBT	5 - 5 - 9	5 18 - 18 - 18	7 - 7 - 7	2.5 -2.5 - 2.5	50 - 18 - 12	24 - 24 - 24	4	3.4
5 -	0 - 0 - (0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	2.3
6 NBT	5 - 5 - 9	5 16 - 16 - 16	5 - 5 - 5	1 - 1 - 1	15 - 15 - 15	0 - 15 - 15	4	2.3
7 -	0 - 0 - (0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
8 EBT	5 - 5 - 5	5 18 - 18 - 18	7 - 7 - 7	2.5 -2.5 - 2.5	50 - 18 - 12	24 - 24 - 24	4	3.4
L	+ -	+	-					

Permitted Phases <u>12345678</u> 1234-6-8 Default External Permit 0 -2-4-6-8 External Permit 1 -2-4-6-8 External Permit 2 -2-4-6-8

unknown

Last In Service Date:

Print Date: 6/30/2017

for 2808: Washington Av&17 St
Print Time:
2:04 AM

					<u>(</u>	Green T	<u>ime</u>					
<u>Current</u> TOD Schedule	<u>Plan</u>	<u>Cycle</u>	1 NBL	2 SBT	3 EBL	4 WBT	5 -	6 NBT	7 -	8 EBT	Ring Offset	Offset
	1	70	0	21	6	23	0	21	0	36	0	25
	2	90	6	29	6	23	0	41	0	36	0	53
	4	100	6	39	6	23	0	51	0	36	0	54
	5	90	6	29	6	23	0	41	0	36	0	69
	6	90	6	29	6	23	0	41	0	36	0	73
	7	90	6	29	6	23	0	41	0	36	0	59
	11	100	6	39	6	23	0	51	0	36	0	93
	12	110	6	49	6	23	0	61	0	36	0	36
	14	90	6	29	6	23	0	41	0	36	0	73
	15	110	6	49	6	23	0	61	0	36	0	102
	16	150	6	89	6	23	0	101	0	36	0	82
	18	90	6	29	6	23	0	41	0	36	0	29
	19	100	6	39	6	23	0	51	0	36	0	0
	20	110	6	49	6	23	0	61	0	36	0	0
	21	110	6	49	6	23	0	61	0	36	0	0

Local TOD) Schedule		
<u>Time</u>	<u>Plan</u>	DOW	
0000	Free	Su	S
0000	Free	M T W Th F	=
0100	Free	M T W Th F	=
0530	Free	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	Free	Su	S
1330	12	M T W Th F	=
1530	6	M T W Th F	:
1800	Free	M T W Th F	=
2000	Free	Su	S

Curren	t Time of Day Function		
<u>Time</u>	<u>Function</u>	Settings *	Day of Week
0000	TOD OUTPUTS		M T W ThF
0000	TOD LOCAL MULTIFU	4	SuM T W ThF S
0100	TOD OUTPUTS		M T W ThF
0500	TOD LOCAL MULTIFU		SuM T W ThF S
0550	TOD OUTPUTS	5	M T W ThF
0600	TOD OUTPUTS		M T W ThF
0720	TOD OUTPUTS		M T W ThF

<u>Time</u>	<u>Function</u>	Settings *	Day of W	<u>eek</u>
0000	TOD OUTPUTS		Su	S
0000	TOD OUTPUTS		MTW.	ThF
0000	TOD LOCAL MULTIFUN	CT4	SuM T W 7	ΓhF S
0100	TOD OUTPUTS		MTW	ThF
0500	TOD LOCAL MULTIFUN	CT	SuM T W 7	ΓhF S
0520	TOD OUTPUTS	5	Su	S
0530	TOD OUTPUTS		Su	S
0550	TOD OUTPUTS	5	MTW.	ThF
0600	TOD OUTPUTS		MTW.	ThF
0605	TOD OUTPUTS		Su	S
0720	TOD OUTPUTS		MTW	ThF

* Settings
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

No Calendar Defined/Enabled

Local Time of Day Function

1					SIGNAL OPERATING PLA						N.					☆				
	D	irection	N	B	รв		EB		WB			Ped	Head	s		∥N				
fiming Phases	Н	ead No.	1/6	6	2	3/8	8	8R	4		PZ		P4-			ts/Displa	y/Actua	tion		
1+6		Dwell	+/G	G	R	R	R	R/-P	R		DW		DW				,			
NB	C	2+6	4 /6	G	R	R	R	R/XI	R		DW	DW	DW	DW	-	16	6			
VIACHING TOOL	e		ļ				<u> </u>	ļ	ļ	 		 	 		4 _	16		10.		
WASHING TON	r	<u> </u>					<u></u>	<u> </u>	 	 		┼	 				ľ	10		
ACTUATED	t		 				 	 	<u> </u>			 	 		. 8R		וב			
	-	Dwell	G	G	G	R	R	R	R		WE	WE	DW	b in	<u> </u>			<u> </u>		
2+6		3+8	Y	Y	Ÿ	R	R	R	R	†			DW							
N/S	C I	448	Ý	Y	Ý	R	R	R	R				DW				6	1		
N/S WASHINGTON AV	e														[Pz ·¥	» K	\uparrow	196		
1440	г									<u> </u>						",				
4.4	1 0							ļ	<u> </u>						-		i [
RECALL									-	ļ	<u> </u>									
3+8	_	Dwell	R	R	R	4-1G	<u> </u>	5	R	-			DW			2 .				
EB	c	4+8	R	R		¥/G ¥/Y	<u>y</u>	<u>V</u> .	R	 		DW	DW	DW		713/8	7	İ		
	e	2+6	R	R	R	*** /	-\	Y	R	 	-		DW.					ŀ		
17 ST	r	210		1		-7/1	1				000	200	0.0	6,540		-> 8				
ACTUATED	t									1					-			-		
	°																			
1110		Dwell	R	R		G	G	G_{-}	<u>G</u>	<u> </u>	DW	DW	WF	W.F.		14 -()				
4+8	- [146	<u>R</u>	R	R	Y	. 1	- X -1	<u>Y</u> _				DW			-O,	, r	,		
E/W	C	2+6	R	R	R	<u>Y</u>	7_	71	7		DW	Wa	DW	Dω		4		֓֞֜֝֞֜֞֜֜֜֡֡֜֜֜֜֡֡		
E/W 17 ST	e a									<u> </u>					<u> </u>	η γ -> - -	_			
1 1	'						·····								0	->> & `-> &				
ACTUATED	1																			
	-															P8				
		Dwell																ı		
[<u> </u>				<u> </u>	 				•					
1	C																			
i	e																			
	7																			
!	t																			
1 1	+																			
		Owell																		
]	Т																			
	c [
[[e										 									
	a																			
	,								<u>.</u>		 									
	ľ		<u></u>								┢╾┤							Ì		
Flashing Ope	rati	on	FY	FY	FY	60	50	Ca	F12		<u> </u>				Page 1	of :	}	-		
глазтиту Оре	ıali	VII		ami-F	ade (Cour	tv Pi	ıblic	Wor	ks D	epa:	tme	ent	L'	~8~ T		<u>-</u>	-		
Drawn,		[Date		-Dade County Public Works D										····					
H. MRAN	Cil	lon	4/10	03	WASHINGTON AV										4 K to					
Checked Date						Placed in Service				Phasing No.				Asset Number						
H. HERNEN	H. HERNENDEL 4/11/3							Date By STI						6				2808		

Print Date: for 2726: James Av&17 St 6/27/2017

		<u>TOD</u>				<u>TOD</u>	Active Active
<u>Asset</u>	<u>Intersection</u>	Schedule Op Mode	<u>Plan #</u>	<u>Cycle</u>	<u>Offset</u>	Setting	PhaseBank Maximum
2726	James Av&17 St	DOW-3	N/A	0	0	N/A	0 Max 0

<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>
-	WBT	-	NBT	-	EBT	-	SBT
0	0	0	0	0	0	0	0
	←		lack		\rightarrow		1

<u>Phase</u>	<u>Walk</u>	Don't Walk	Min Initial	Veh Ext	Max Limit	<u>Max 2</u>	<u>Yellow</u>	Red
	Phase Bank							
	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3		
1 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
2 WBT	7 - 7 - 7	22 - 22 - 22	7 - 7 - 7	1 - 1 - 1	35 - 34 - 35	0 - 34 - 35	4	0
3 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
4 NBT	7 - 7 - 7	20 - 20 - 20	7 - 7 - 7	2.5 -2.5 - 2.5	12 - 28 - 12	35 - 22 - 22	4	0.3
5 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
6 EBT	7 - 7 - 7	22 - 22 - 22	7 - 7 - 7	1 - 1 - 1	35 - 34 - 35	0 - 34 - 35	4	0
7 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
8 SBT	7 - 7 - 7	20 - 20 - 20	7 - 7 - 7	2.5 -2.5 - 2.5	12 - 28 - 12	35 - 22 - 22	4	0.3

Last In Service Date: unknown

Permitted Phases	
	<u>12345678</u>
Default	-2-4-6-8
External Permit 0	-2-4-6-8
External Permit 1	-2-4-6-8
External Permit 2	-2-4-6-8

Print Time:

8:37 AM

					Green	<u>Time</u>					
<u>Current</u>		1	2	3	4	5	6	7	8		
TOD Schedule <u>Plan</u>	<u>Cycle</u>		WBT	· -	NBT	-	EBT	-	SBT	Ring Offset	<u>Offset</u>
2	90	0	54	0	28	0	54	0	28	0	86
3	80	0	44	0	28	0	44	0	28	0	65
4	90	0	54	0	28	0	54	0	28	0	78
5	90	0	54	0	28	0	54	0	28	0	47
6	90	0	54	0	28	0	54	0	28	0	46
7	90	0	54	0	28	0	54	0	28	0	26
8	80	0	44	0	28	0	44	0	28	0	65
9	80	0	44	0	28	0	44	0	28	0	65
10	80	0	44	0	28	0	44	0	28	0	65
11	90	0	54	0	28	0	54	0	28	0	86
12	90	0	54	0	28	0	54	0	28	0	67
13	80	0	44	0	28	0	44	0	28	0	53
14	90	0	54	0	28	0	54	0	28	0	46
15	110	0	74	0	28	0	74	0	28	0	83
16	150	0	114	0	28	0	114	0	28	0	123
17	70	0	34	0	28	0	34	0	28	0	43
18	90	0	54	0	28	0	54	0	28	0	57
22	70	0	34	0	28	0	34	0	28	0	43

Local TOE	Local TOD Schedule										
<u>Time</u>	<u>Plan</u>	<u>DOW</u>									
0000	22	Su	S								
0000	10	M T W Th F									
0100	Free	M T W Th F									
0530	Free	Su	S								
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									
1430	5	W									
1530	6	M T W Th F									
1800	8	M T W Th F									
2000	10	Su	S								
2130	10	M T W Th F									

Current Time of Day Function											
<u>Time</u>	<u>Function</u>	Settings *	Day of Week								
0000	TOD OUTPUTS		SuM T W ThF S								
0000	TOD LOCAL MULTIFU	4	SuM T W ThF S								
0100	TOD OUTPUTS	1	M T W ThF								
0500	TOD LOCAL MULTIFU		SuM T W ThF S								
0715	TOD OUTPUTS		M T W ThF								

Local	Time of Day Function			
<u>Time</u>	<u>Function</u>	Settings *	Day of Wee	<u>k</u>
0000	TOD OUTPUTS		SuM T W Thi	- S
0000	TOD LOCAL MULTIFUNG	CT4	SuM T W Thi	- S
0100	TOD OUTPUTS	1	M T W Th	F
0500	TOD LOCAL MULTIFUNG	CT	SuM T W Thi	-s
0530	TOD OUTPUTS	1	Su	S
 0715	TOD OUTPUTS		M T W Th	F
1000	TOD OUTPUTS		Su	S

* Settings
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

No Calendar Defined/Enabled

			SIGNA	L OPERAT	ING PLAN	_		l IN
	Direction	EB	WB	SB	NB	Ped He	ads	N
Timing Phases	Head No.	6	2	8	4 [P2 P4 P	6 P8	Movements/Display/Actuation
(2+6)	Dwell	G	G	R	R \	WF DW W	//F DW	4
	c 4+8	Y	Y	R	R	DW DW D	W DW	P2 2
E/WB	e							
17 ST	a l							
								6 P6
(RECALL)	0							
	Dwell							
	c							
	e							·
	a							
				•				
	0							
(4:0)	Diver-11				G	DW W/F D	W W/F	, P8 □
(4+8)	Dwell	R	R	G			W DW	
	c (2+6)	R	R	Y	Y	DVV DVV L	VV DVV	8 🕶
N/SB	e -					_	_	Ó * ← √ Ó
LANGO AV	а							4
JAMES AV								1
(ACTUATED)	0						+-	P4
(ACTOATED)	Dwell		-					
•	C							
	e a							
	ı 💮 💮							
	t							
	٥							
	Dwell							
	с							
	Ĩ							
	e a							
	Г							
	t o							
							_	
	Dwell			<u> </u>		 	_	4
	c							-
	e							-
	.a r					 	_	4
	<u> </u>					- 		†
	0	 			· · · ·	 		1
Flashing Op	peration	EV.	FY	FR	FR			Page 1 of 1
riashing O	Delation	Miami-	Dade Cou)epartm	ent	1. ~8~
Drawn	<u> </u>	Date	Dade Oou	inty i dibili				<u> </u>
WILLIAM RIV	ERA-PAZ	8/25/2006			JAMES	AV & 1	7 ST	•
O .		Date		aced in Servi		Phasin		Asset Number
HIRAM HEP	SOCIAL	18/25/06	Date 2/1 1/2	By	MAGESCO		3	2726

Print Date: for 2665: Collins Av&17 St

6/27/2017							8:29 AM
		<u>TOD</u>				<u>TOD</u>	Active Active
<u>Asset</u>	<u>Intersection</u>	Schedule Op Mode	<u>Plan #</u>	<u>Cycle</u>	<u>Offset</u>	<u>Setting</u>	<u>PhaseBank</u> <u>Maximum</u>

		<u>10D</u>					<u>100</u>	Acuve	<u>Active</u>
<u>Asset</u>	<u>Intersection</u>	<u>Schedule</u>	Op Mode	Plan #	<u>Cycle</u>	<u>Offset</u>	Setting	PhaseBank	<u>Maximum</u>
2665	Collins Av&17 St	DOW-3		N/A	0	0	N/A	0	Max 0
	ć	Smlita							

<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>
-	NBT	-	EBT	-	SBT	-	WBT
0	0	0	0	0	0	0	0
	lack		\rightarrow		1		←

Active Flidse ballk. Flidse ballk	Active Phase Bar	nk: Phase	Bank 1
-----------------------------------	------------------	-----------	--------

<u>Phase</u>	<u>Walk</u>	Don't Walk	Min Initial	Veh Ext	Max Limit	Max 2	<u>Yellow</u>	Red
	Phase Bank							
	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3		
1 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
2 NBT	5 - 5 - 5	20 - 20 - 20	7 - 7 - 7	1 - 1 - 1	50 - 50 - 50	0 - 0 - 0	4	3
3 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
4 EBT	10 - 10 - 10	14 - 14 - 14	7 - 7 - 7	2.5 -2.5 - 2.5	12 - 12 - 12	24 - 25 - 24	4	2.2
5 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
6 SBT	5 - 5 - 5	20 - 20 - 20	7 - 7 - 7	1 - 1 - 1	50 - 50 - 50	0 - 0 - 0	4	3
7 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
8 WBT	10 - 10 - 10	14 - 14 - 14	7 - 7 - 7	2.5 -2.5 - 2.5	12 - 12 - 12	24 - 25 - 24	4	2.2

Last In Service Date: unknown

Permitted Phases	
	<u>12345678</u>
Default	-2-4-6-8
External Permit 0	-2-4-6-8
External Permit 1	-2-4-6-8
External Permit 2	-2-4-6-8
LAternari emit 2	-2-4-0-0

Print Time:

Print Date: 6/27/2017

Print Time: 8:29 AM

						Green 7	<u>Γime</u>					
<u>Current</u>			1	2	3	4	5	6	7	8		
TOD Schedule	<u>Plan</u>	<u>Cycle</u>	-	NBT	-	EBT	-	SBT	-	WBT	Ring Offset	<u>Offset</u>
	1	100	0	54	0	33	0	54	0	33	0	94
	2	95	0	58	0	24	0	58	0	24	0	7
	3	100	0	54	0	33	0	54	0	33	0	81
	4	90	0	53	0	24	0	53	0	24	0	68
	5	110	0	73	0	24	0	73	0	24	0	101
	6	130	0	90	0	27	0	90	0	27	0	30
	7	120	0	74	0	33	0	74	0	33	0	90
	8	150	0	113	0	24	0	113	0	24	0	117
	11	90	0	53	0	24	0	53	0	24	0	17
	12	90	0	53	0	24	0	53	0	24	0	59
	13	90	0	53	0	24	0	53	0	24	0	56
	14	120	0	83	0	24	0	83	0	24	0	89
	15	120	0	83	0	24	0	83	0	24	0	111
	16	90	0	53	0	24	0	53	0	24	0	70
	17	90	0	53	0	24	0	53	0	24	0	70
	18	100	0	54	0	33	0	54	0	33	0	17
	21	90	0	53	0	24	0	53	0	24	0	17
	22	100	0	54	0	33	0	54	0	33	0	37
	23	100	0	54	0	33	0	54	0	33	0	17
	25	140	0	94	0	33	0	94	0	33	0	85

	Local TOD Sc	hedule		
	<u>Time</u>	<u>Plan</u>	<u>DOW</u>	
	0000	1	Su M T W T	h
	0000	7		F S
	0300	1		F S
	0300	22	M T W T	h
	0300	4	Su	
	0700	5	Su	
	0700	1	M T W T	hFS
	0930	2	M T W T	h
	0930	1	Su	F S
	1500	5	Su	F S
	1500	3	MTWT	h
	1800	1	M T W T	h
L	1800	6	Su	F S

Currer	Current Time of Day Function							
<u>Time</u>	<u>Function</u>	Settings *	Day of Week					
0000	TOD OUTPUTS		SuM T W ThF S					
0000	TOD LOCAL MULTIFU	4	SuM T W ThF S					
0500	TOD LOCAL MULTIFU		SuM T W ThF S					

Local Time of Day Function						
<u>Time</u>	<u>Function</u>	Settings *	Day of Week			
0000	TOD OUTPUTS		SuM T W ThF S			
0000	TOD LOCAL MULTIFUNG	CT4	SuM T W ThF S			
0500	TOD LOCAL MULTIFUNG	CT	SuM T W ThF S			

* Settings
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

 Print Date:
 for 2665: Collins Av&17 St
 Print Time:

 6/27/2017
 8:29 AM

No Calendar Defined/Enabled				

			SIGN	IAL OPERA	ATING PLA	N			☆
	Direction	- NB	SB	EB	WB		Ped He	eads	ן וו א
Timing Phases	Head No.	6	2	8	4	P6	P2	P8 P4	Movements/Display/Actuation
- 100	Dwell								
gras	С								
	e e			"					
	a								
•									
	0								
	Dwell								
	_	1							7
	C								7
	e a			i i					
<i></i>	r								7
:	t					-			
	٥					 			
(2+6)	Dwell	G	G	R	R	W/F	W/F [WD WC	/ ! 1 P6
. ()	, (>4+8)	Υ	Y	R	R			ow by	- :
N/SB	G 440				,				1
T N/SB	a e								1
Collins Av	r l			1				- 	┧┆
Ooming Av	t								1 ;
(RECALL)	0							-	+ i _{P2} :
(1/120/122)	Dwell								
								- -	1
	C		 	1			-		┪
	e					 		1	┪
	a r								1
	t							-	┪
	0		 			\vdash			╡
(4+8)	Dwell	R	R	G	G	DW	DW V	V/F W/F	
(4.0)	2+6	R	R	Y	Y	-			/ P4 4
. I AA/D	c 2+0		I N	 	T	DVV	DVV		∀
E/WB	e					\vdash		_	 □
47 044	a Talinati					┢─┼			-
17 Street						\vdash			d
(ACTUATED)					1			-	┨
(ACTUATED)	Dwell					\vdash		+	
	DWell					 			1
; · · · · · · · · · · · · · · · · · · ·	ç								-
	e e						- -	 	-
	a r				<u> </u>			-	-
	1					┞╼╼┼			-
	0		<u> </u>			\vdash		- -	4
						┝┷			D 4 .5 4
Flashing Op	eration	FY	FY	FR	FR	<u>Ļ</u>			Page 1 of 1
			i-Dade Co	unty Publ	ic Works	Depa	artme	ent	
Drawn		Date		00	LLINS A	۷۱/ ۷	. 17	STD	EET
WILLIAM RIVE		3/7/2013							Asset Number
Checked H. Herry	MODE !	Date, 4/1/13		laced in Servi		 	Phasing		Asset Number 2665
41,40140		141 <i>2</i>	Date	Ву	UND			4	2003

3

TOD Schedule Report

for 2807: Lincoln Rd&Washington Av

Print Date: Print Time: 6/27/2017 8:49 AM

<u>Asset</u> 2807	Intersection Schedule Op Lincoln Rd&Washington Av DOW-3				Op Mode	<u>Plan #</u> N	√A	<u>Cycle</u> 0	Offset 0	TOD Setting	Active Active PhaseBank Maximum 0 Max 0	
			9	Splits_								
<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>					
SBL	NBT	XPD	WBT	-	SBT	-	-					
0	0	0	0	0	0	0	0					
4	lack	N/A	←	ı	1							

Active Phase	Bank: Pha	se Bank 1						
<u>Phase</u>	<u>Walk</u>	Don't Walk	Min Initial	Veh Ext	Max Limit	Max 2	Yellow	Red
	Phase Bank							
	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3		
1 SBL	0 - 0 - 0	0 - 0 - 0	5 - 5 - 5	1 - 1 - 1	5 - 5 - 5	6 - 5 - 5	3	0
2 NBT	0 - 0 - 0	0 - 0 - 0	14 - 14 - 14	1 - 1 - 1	20 - 20 - 20	0 - 20 - 20	4	1
3 XPD	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
4 WBT	0 - 0 - 0	0 - 0 - 0	7 - 7 - 7	1 - 1 - 1	8 - 32 - 32	32 - 32 - 32	4	1
5 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
6 SBT	0 - 0 - 0	0 - 0 - 0	14 - 14 - 14	1 - 1 - 1	20 - 20 - 20	0 - 20 - 20	4	1
7 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
8 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0

Permitted Phases <u>12345678</u> 1234-6--Default External Permit 0 -234-6--External Permit 1 -234-6--External Permit 2 -234-6--

05/13/2010 12:31

Last In Service Date:

for 2807: Lincoln Rd&Washington Av

Print Date: 6/27/2017

Print Time: 8:49 AM

				<u>(</u>	Green T	<u>ime</u>					
<u>Current</u>		1	2	3	4	5	6	7	8		
TOD Schedule <u>Plan</u>	<u>Cycle</u>	SBL	NBT	XPD	WBT	-	SBT	-	-	Ring Offset	<u>Offset</u>
2	100	6	36	27	18	0	45	0	0	0	84
3	80	6	24	27	10	0	33	0	0	0	64
4	100	6	36	27	18	0	45	0	0	0	65
5	100	6	36	27	18	0	45	0	0	0	44
6	110	6	46	27	18	0	55	0	0	0	48
7	90	6	26	27	18	0	35	0	0	0	70
8	100	6	36	27	18	0	45	0	0	0	13
9	80	6	24	27	10	0	33	0	0	0	61
10	90	6	26	27	18	0	35	0	0	0	13
11	100	6	24	27	30	0	33	0	0	0	41
12	110	6	46	27	18	0	55	0	0	0	33
13	80	6	24	27	10	0	33	0	0	0	17
14	90	6	34	27	10	0	43	0	0	0	45
15	110	6	46	27	18	0	55	0	0	0	89
16	150	6	86	27	18	0	95	0	0	0	102
18	90	6	34	27	10	0	43	0	0	0	45
19	100	0	22	27	41	0	22	0	0	0	0
20	110	0	44	27	29	0	44	0	0	0	0
21	100	0	34	27	29	0	34	0	0	0	0

Local TO	D Schedule		
<u>Time</u>	<u>Plan</u>	<u>DOW</u>	
0000	Free	Su	S
0000	10	M T W Th	F
0100	Free	M T W Th	F
0530	Free	Su	S
0600	Free	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

Currer	nt Time of Day Function		
<u>Time</u>	<u>Function</u>	Settings *	Day of Week
0000	TOD OUTPUTS	8	SuM T W ThF S
0000	TOD LOCAL MULTIFU	4	SuM T W ThF S
0100	TOD OUTPUTS	81	M T W ThF
0200	TOD OUTPUTS	851	SuM T W ThF S
0500	TOD LOCAL MULTIFU		SuM T W ThF S
0530	TOD OUTPUTS	81	M T W ThF
0700	TOD OUTPUTS		SuM T W ThF S
0715	TOD OUTPUTS		M T W ThF
2300	TOD OUTPUTS	8	SuM T W ThF S

Local	Time of Day Function		
<u>Time</u>	<u>Function</u>	Settings *	Day of Week
0000	TOD OUTPUTS	8	SuM T W ThF S
0000	TOD LOCAL MULTIFUNC	T4	SuM T W ThF S
0100	TOD OUTPUTS	81	M T W ThF
0200	TOD OUTPUTS	851	SuM T W ThF S
0500	TOD LOCAL MULTIFUNC	T	SuM T W ThF S
0530	TOD OUTPUTS	81	M T W ThF
0530	TOD OUTPUTS	81	Su S
0700	TOD OUTPUTS		SuM T W ThF S
0715	TOD OUTPUTS		M T W ThF
1000	TOD OUTPUTS		Su S
2300	TOD OUTPUTS	8	SuM T W ThF S

* Settings
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 2807: Lincoln Rd&Washington Av

Print Time: Print Date: 6/27/2017 8:49 AM

No Calendar Defined/Enabled											

	S	IGN	IAL	(OPE	R/	ΛTΙ	NO	6	PLA	N		4	V	
			SIGN	AL	HEA	AD	N	UMI	BER				<u>.</u>		ħ.
PHASE	INT			6	P2	84	Pg	P6							
P2+6 (1+2+6)	R/W	-	GR	G	1	1		DW)							85.65
1	PED, CL			_		<u> </u>] '				1
NBND & SBND	x/€	, Y	Y R	Y	DW	DW	DW	DW	_	1	ļ	À			<u> </u>
WASHING TON AV	P 	+		_				-				6		^	-
opens	١		_	 			 		+	1				1	
RECALL '	CLEAR								1						<u></u>
				<u> </u>					_	1	 				C.C., C.C.
. fa	R/W	R	RR	R	W	W	W	W			A STATE OF THE STA		P4		
XYED	PED, CL	,	RR		PM E	Εw	WW E	P DWI						,	7
XPED RECALL	\$4	R	RR	R	MQ			ī							
Ke C. C. M. loselan.	10										196				P21
	ايو														
	CLEAR											<u></u>	78		Y
	Щ	\sqcup													
φ4 (4)	R/W		R G	R	wd	M	ЭM	DW	_ _						
	PED. CL								\perp		· •				1
WRND	2 \$1+€	K	RY	R	Dw	DW	M	DWI						<i>j</i>	
Lineal W Rd.	<u> </u>						_	<u> </u>	_ _					4<	
00-111	EAR			\square				igwdap		-					
RECALL	ಠ							\square	\perp						-
		46-	7 0		- - 					\bot					
Ø1+6 (1+6)	R/W PED. CL		RR	٣	DW	ΦW	DM	pm			 				
4 , , , ,	L	<u> </u>				1				+					•
SEND & SL	(A)+16	Ē	KK	G	DN	DW	DW	7M		+		∮ \	≥ 1		
WASHINGTON AV	º	\vdash	 							+-		ھا			I
WHSHING ING I	CLEAR		-	\vdash				\vdash		+-					
RECALL	13										,				
FLASH OPERATION		FY	FY FR	FY											71
Drawn	Date		,	·				OLI]		DAD	E COL	INTY	~~~ ^ ~ (.	211	
H. FRANCILLON	2/2/28		·) <u>L</u> ۲	RTME	A 1	OF	ın	AFFI	C AN		-	RTATI		7
Check	Date										-			28 <i>0</i>	
HIHERNAUDER	4/20/ ₉₈	$ _{\mathcal{W}}$	lAst	tin	GTO	2	A	√	દ્	Lin	ocoln	R	$d \cdot$	٠	
Division Engineer	Date														
	ı	<u> </u>		Place	ed in	Serv	lce			·		····	Phas	sing Nu	mber
	ı	Date	:/	95		By:	A	15						5	



Week	Weekly Volume	PSCF	Month	Days
1	97461	1.08	Jan	1-2
2	94621	1.11		5-9
3	92597	1.14		12-16
4	94820	1.11		19-23
5	95103	1.11		26-30
6	93310	1.13	Feb	2-6
7	97965	1.07		9-13
8	97595	1.08		16-20
9	98306	1.07		23-27
10	99061	1.06	Mar	2-6
11	103197	1.02		9-13
12	104700	1.00		16-20
13	105181	1.00		23-27
14	103378	1.02	Apr	30-3
15	98388	1.07	7.01	6-10
16	97132	1.08		13-17
17	92368	1.14		20-24
18	93079	1.13	May	27-1
19	94513	1.11	iviay	4-8
20	96765	1.09		11-15
21	90955	1.16	+	18-22
22	88187	1.19	+	25-29
23			luno	1-5
	94751	1.11	June	
24	93310	1.13	+	8-12
25	94745	1.11		15-19
26	95914	1.10	le de c	22-26
27	92680	1.13	July	29-3
28	93320	1.13		6-10
29	95119	1.11	+	13-17
30	95499	1.10		20-24
31	94958	1.11		27-3
32	97362	1.08	Aug	3-7
33	94929	1.11		10-14
34	96230	1.09		17-2
35	92110	1.14		24-28
36	91826	1.15	Sept	1-4
37	90955	1.16		7-11
38	89712	1.17		14-18
39	92517	1.14		21-25
40	90393	1.16	Oct	28-2
41	88712	1.19		5-9
42	87533	1.20		12-16
43	94636	1.11		19-23
44	96168	1.09		26-30
45	96752	1.09	Nov	2-6
46	99482	1.06		9-13
47	96147	1.09		16-20
48	90693	1.16		23-27
49	102796	1.02	Dec	30-4
50	96703	1.09		7-11
51	97695	1.08		14-18
52	92309	1.14		21-25
53	103003	1.02		28-31

Appendix D

Growth Rate Calculations



FDOT Growth Rate Summary

Station	Location		Lir	ear			Expon	ential		Decaying Exponential			
Number			R-squared	10-year	R-squared	5-year	R-squared	10-year	R-squared	5-year	R-squared	10-year	R-squared
5170	SR A1A/Collins Avenue North of 21st Street	2.48%	28.35%	-0.13%	0.55%	2.50%	27.90%	-0.13%	0.63%	2.21%	24.42%	-0.21%	1.21%
8414	Washington Avenue 200 feet north of 12th Street	3.21%	66.48%	-	-	3.06%	67.05%	-	-	3.10%	69.28%	-	-
8531	17th Street 200 feet east of Meridian Avenue	0.00%	1.67%	-	-	0.00%	1.65%	-	-	0.00%	6.78%	-	-
8567	16th Street 200 feet east of Meridian Avenue	-2.75%	90.22%	-	-	-2.87%	89.94%	-	-	-2.57%	76.11%	-	-
Total		0.74%	46.68%	-0.13%	0.55%	0.67%	46.64%	-0.13%	0.63%	0.69%	44.15%	-0.21%	1.21%

Growth Rate Summary

Station Number	Location	Historic Growth			
Station Number	Location	5-year	10-year		
North/South Streets					
5170	SR A1A/Collins Avenue North of 21st Street	2.48%	-0.13%		
8414	Washington Avenue 200 feet north of 12th Street	3.21%	-		
	Average	2.85%	-0.13%		
	East/West Streets				
8531	17th Street 200 feet east of Meridian Avenue	0.00%	-		
8567	8567 16th Street 200 feet east of Meridian Avenue		-		
	Average	-1.38%	-0.13%		

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2016 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
2016	26000 C	N 13500	S 12500	9.00	54.50	20.20
2015	26500 C	N 12500	S 14000	9.00	54.70	4.20
2014	27000 C	N 12500	S 14500	9.00	54.50	4.10
2013	22500 C	и 10500	S 12000	9.00	52.40	9.00
2012	25000 C	N 12000	S 13000	9.00	55.70	4.30
2011	26500 C	N 13500	S 13000	9.00	55.10	2.80
2010	25000 C	N 12500	S 12500	8.98	54.08	2.80
2009	26500 C	N 13000	S 13500	8.99	53.24	2.70
2008	27000 C	N 13500	S 13500	9.09	55.75	4.60
2007	25500 C	N 12500	S 13000	8.01	54.34	5.10
2006	25500 C	N 12500	S 13000	7.97	54.22	2.70
2005	25500 C	N 13000	S 12500	8.80	53.80	11.60
2004	30500 C	N 15000	S 15500	9.00	53.30	11.60
2003	23500 C	N 11500	S 12000	8.80	53.40	6.90
2002	31500 C	N 16000	S 15500	9.80	52.30	4.00
2001	29500 F	N 14500	S 15000	8.20	53.50	6.00

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

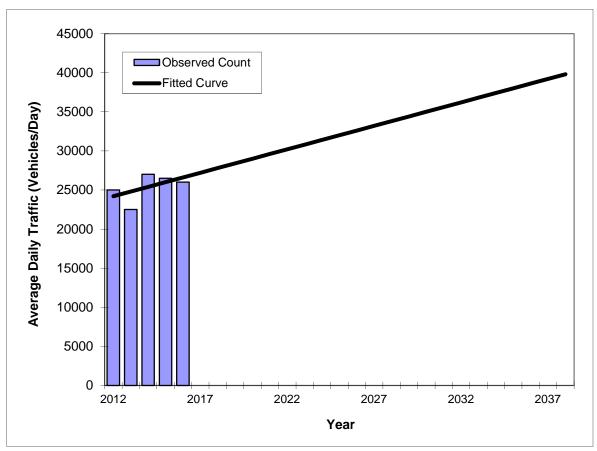
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

Traffic TrendsSR A1A/Collins Avenue -- North of 21st Street

 County:
 Miami (87)

 Station #:
 5170

 Highway:
 SR A1A/Collins Avenue



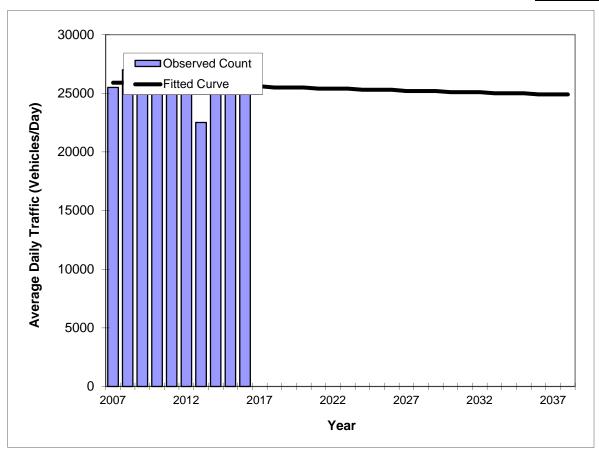
Trend R-squared: 28.35%
Trend Annual Historic Growth Rate: 2.48%
Printed: 24-Oct-17

Straight Line Growth Option

*Axle-Adjusted

Traffic TrendsSR A1A/Collins Avenue -- North of 21st Street

County: Miami (87)
Station #: 5170
Highway: SR A1A/Collins Avenue



	Traffic (ADT/AADT)		
Year	Count*	Trend**	
2007	25500	25900	
2008	27000	25900	
2009	26500	25800	
2010	25000	25800	
2011	26500	25800	
2012	25000	25700	
2013	22500	25700	
2014	27000	25700	
2015	26500	25600	
2016	26000	25600	

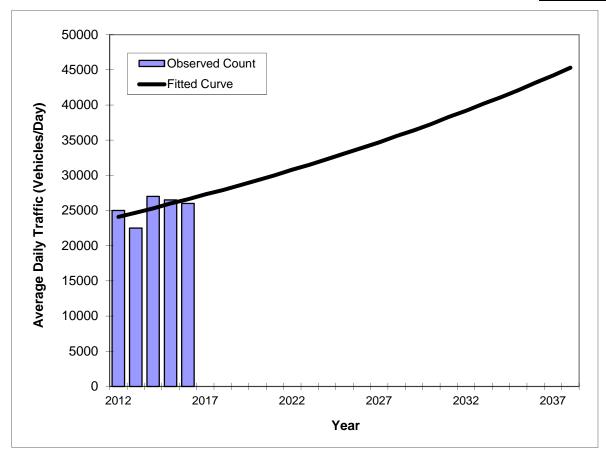
Trend R-squared: 0.55%
Trend Annual Historic Growth Rate: -0.13%
Printed: 24-Oct-17

Straight Line Growth Option

*Axle-Adjusted

Traffic TrendsSR A1A/Collins Avenue -- North of 21st Street

County: Miami (87)
Station #: 5170
Highway: SR A1A/Collins Avenue



Traffic (ADT/AADT)		
Count*	Trend**	
25000 22500 27000 26500 26000	24100 24700 25300 26000 26600	
	Count* 25000 22500 27000 26500	

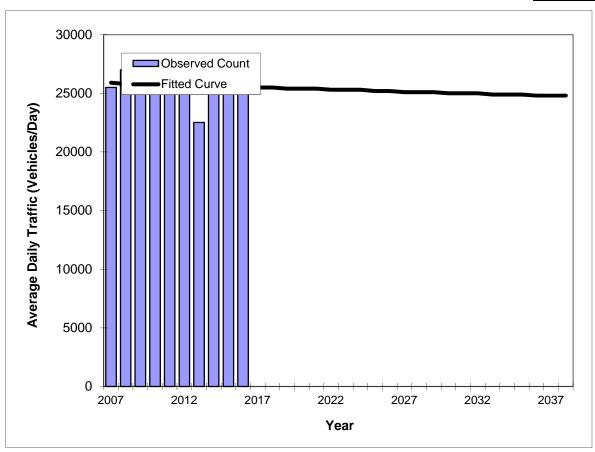
Trend R-squared: 27.90%
Compounded Annual Historic Growth Rate: 2.50%
Printed: 24-Oct-17

Exponential Growth Option

*Axle-Adjusted

Traffic TrendsSR A1A/Collins Avenue -- North of 21st Street

County: Miami (87)
Station #: 5170
Highway: SR A1A/Collins Avenue



	Traffic (AD	T/AADT)
Year	Count*	Trend**
2007	25500	25900
2008	27000	25800
2009	26500	25800
2010	25000	25800
2011	26500	25700
2012	25000	25700
2013	22500	25700
2014	27000	25600
2015	26500	25600
2016	26000	25600

Trend R-squared: 0.63%
Compounded Annual Historic Growth Rate: -0.13%
Printed: 24-Oct-17

Exponential Growth Option

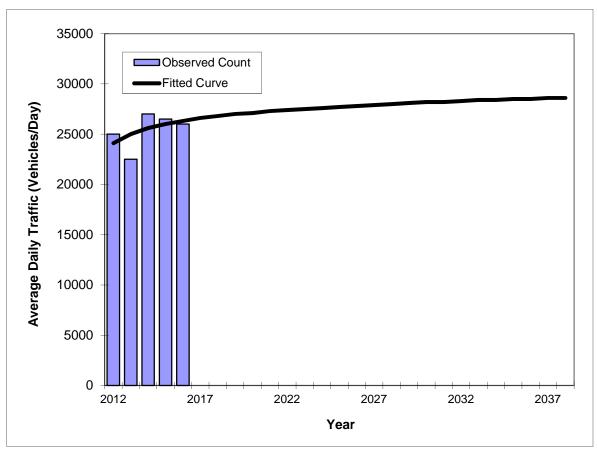
*Axle-Adjusted

Traffic TrendsSR A1A/Collins Avenue -- North of 21st Street

 County:
 Miami (87)

 Station #:
 5170

 Highway:
 SR A1A/Collins Avenue



	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2012	25000	24100			
2013	22500	25000			
2014	27000	25600			
2015	26500	26000			
2016	26000	26300			

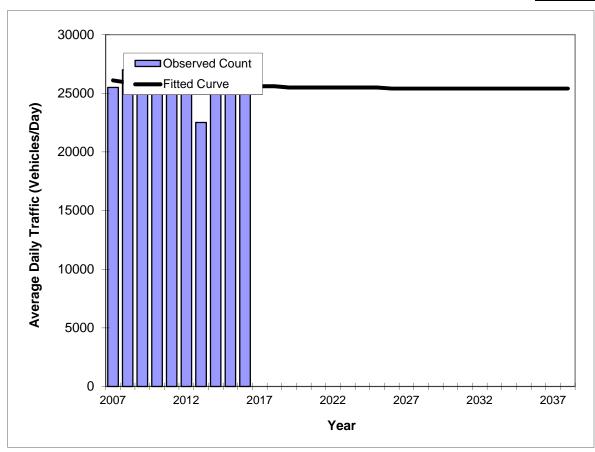
Trend R-squared: 24.42%
Compounded Annual Historic Growth Rate: 2.21%
Printed: 24-Oct-17

Decaying Exponential Growth Option

*Axle-Adjusted

Traffic TrendsSR A1A/Collins Avenue -- North of 21st Street

County: Miami (87)
Station #: 5170
Highway: SR A1A/Collins Avenue



	Traffic (AD	T/AADT)
Year	Count*	Trend**
2007	25500	26100
2008	27000	25900
2009	26500	25800
2010	25000	25800
2011	26500	25700
2012	25000	25700
2013	22500	25700
2014	27000	25600
2015	26500	25600
2016	26000	25600
ĺ		

Trend R-squared: 1.21%
Compounded Annual Historic Growth Rate: -0.21%
Printed: 24-Oct-17

Decaying Exponential Growth Option

*Axle-Adjusted

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2016 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
2016	20800 C	N 9800	S 11000	9.00	56.10	1.90
2015	20300 C	N 9800	S 10500	9.00	57.40	17.50
2014	21000 C	N 10000	S 11000	9.00	59.30	13.90
2013	18700 F	N 9200	S 9500	9.00	58.90	16.20
2012	18700 C	N 9200	s 9500	9.00	59.70	16.00

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

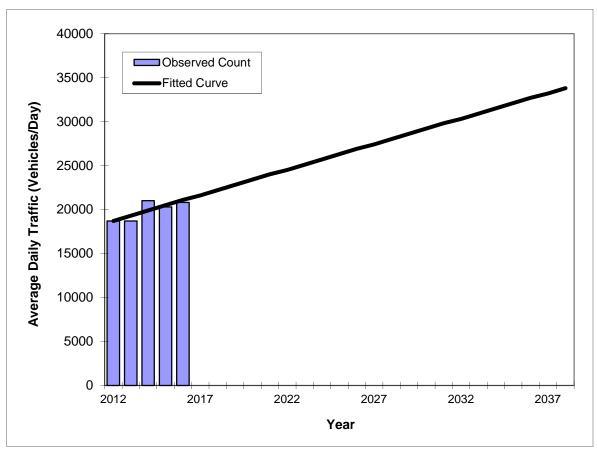
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE

V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

Traffic Trends Washington Avenue -- 200 feet north of 12th Street

County: Miami (87)
Station #: 8414
Highway: Washington Avenue

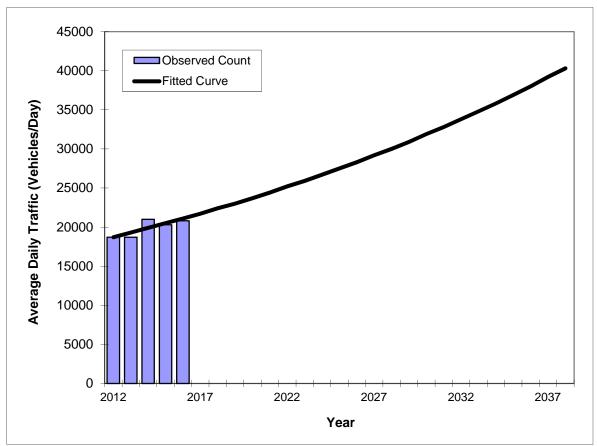


Trend R-squared: 66.48%
Trend Annual Historic Growth Rate: 3.21%
Printed: 24-Oct-17
Straight Line Growth Option

*Axle-Adjusted

Traffic Trends
Washington Avenue -- 200 feet north of 12th Street

County: Miami (87)
Station #: 8414
Highway: Washington Avenue



	Traffic (ADT/AADT)			
Year	Count*	Trend**		
2012	18700	18700		
2013	18700	19300		
2014	21000	19900		
2015	20300	20500		
2016	20800	21100		

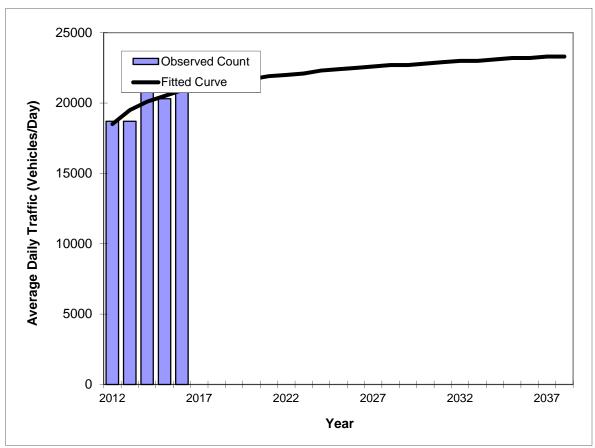
Trend R-squared: 67.05%
Compounded Annual Historic Growth Rate: 3.06%
Printed: 24-Oct-17

Exponential Growth Option

*Axle-Adjusted

Traffic Trends Washington Avenue -- 200 feet north of 12th Street

County: Miami (87)
Station #: 8414
Highway: Washington Avenue



	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2012	18700	18500			
2013	18700	19500			
2014	21000	20100			
2015	20300	20500			
2016	20800	20900			

Trend R-squared: 69.28%
Compounded Annual Historic Growth Rate: 3.10%
Printed: 24-Oct-17

Decaying Exponential Growth Option

*Axle-Adjusted

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2016 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 8531 - 17TH ST, 200' EAST OFMERIDIAN AVE (2011 OFF SYSTEM CYCLE)

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2016	18900 F	E 8400	W 10500	9.00	56.10	5.10
2015	19000 C	E 8500	W 10500	9.00	57.40	7.10
2014	18700 S	E 9600	W 9100	9.00	59.30	10.70
2013	18900 F	E 9700	W 9200	9.00	58.90	16.20
2012	19000 C	E 9800	W 9200	9.00	59.70	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

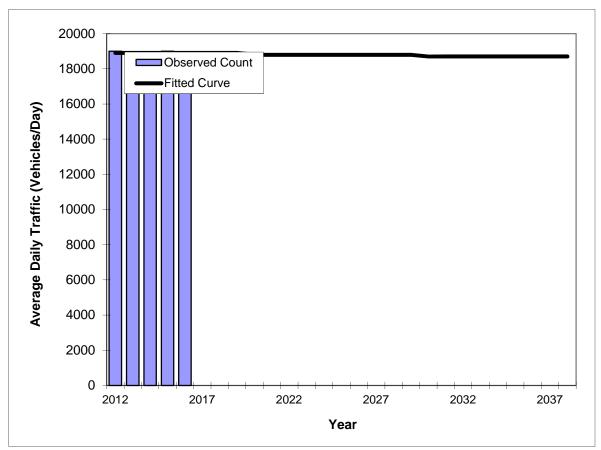
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

Traffic Trends 17th Street -- 200 feet east of Meridian Avenue

 County:
 Miami (87)

 Station #:
 8531

 Highway:
 17th Street



	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2012	19000	18900			
2013	18900	18900			
2014	18700	18900			
2015	19000	18900			
2016	18900	18900			

Trend R-squared: 1.67%
Trend Annual Historic Growth Rate: 0.00%
Printed: 24-Oct-17
Straight Line Growth Option

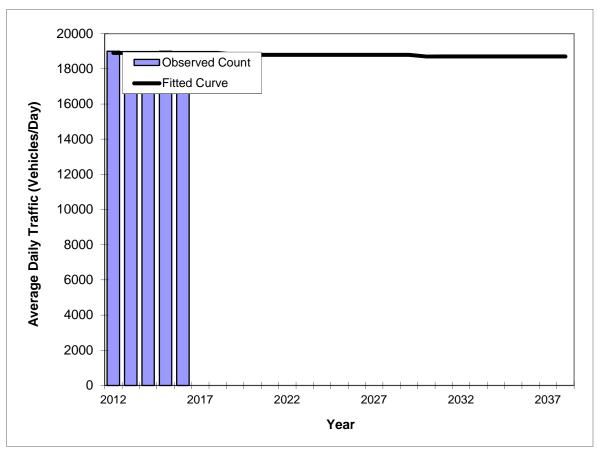
*Axle-Adjusted

Traffic Trends 17th Street -- 200 feet east of Meridian Avenue

 County:
 Miami (87)

 Station #:
 8531

 Highway:
 17th Street



	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2012	19000	18900			
2013	18900	18900			
2014	18700	18900			
2015	19000	18900			
2016	18900	18900			

Trend R-squared: 1.65%
Compounded Annual Historic Growth Rate: 0.00%
Printed: 24-Oct-17

Exponential Growth Option

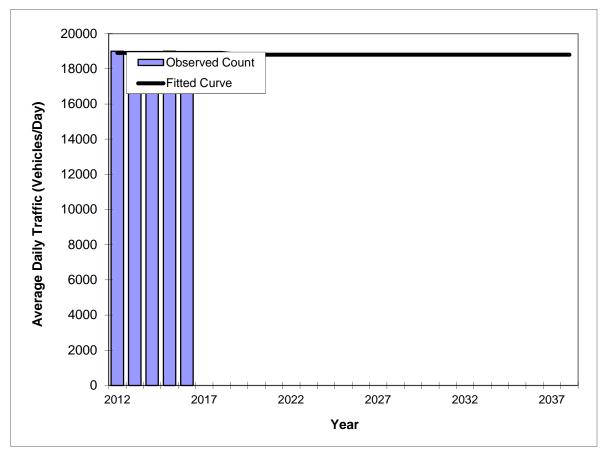
*Axle-Adjusted

Traffic Trends 17th Street -- 200 feet east of Meridian Avenue

 County:
 Miami (87)

 Station #:
 8531

 Highway:
 17th Street



	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2012	19000	18900			
2013	18900	18900			
2014	18700	18900			
2015	19000	18900			
2016	18900	18900			

Trend R-squared: 6.78%
Compounded Annual Historic Growth Rate: 0.00%
Printed: 24-Oct-17

Decaying Exponential Growth Option

*Axle-Adjusted

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2016 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 8567 - 16 ST, 200' EAST OFMERIDIAN AVE (2011 OFF SYSTEM CYCLE)

YEAR	AADT	DII	RECTION 1	DIE	RECTION 2	*K FACTOR	D FACTOR	T FACTOR
2016	8900 F	\mathbf{E}	4300	W	4600	9.00	56.10	5.10
2015	9100 C	E	4400	W	4700	9.00	57.40	7.10
2014	9700 S					9.00	59.30	10.70
2013	9800 F		0		0	9.00	58.90	16.20
2012	9900 C	E	0	W	0	9.00	59.70	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

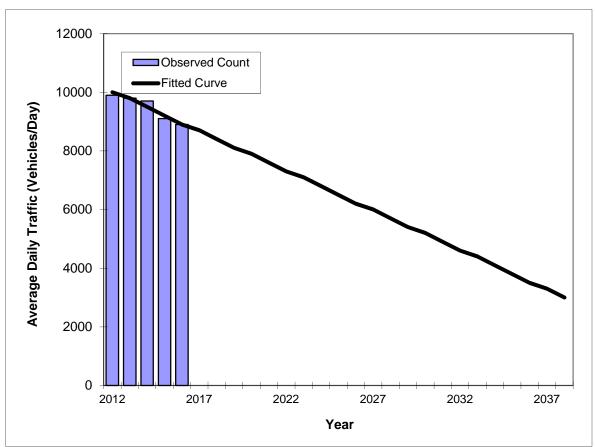
Traffic Trends

16th Street -- 200 feet east of Meridian Avenue

 County:
 Miami (87)

 Station #:
 8567

 Highway:
 16th Street



	Traffic (AD	T/AADT)
Year	Count*	Trend**
2012	9900	10000
2013	9800	9800
2014	9700	9500
2015	9100	9200
2016	8900	8900

Trend R-squared: 90.22%
Trend Annual Historic Growth Rate: -2.75%
Printed: 24-Oct-17

Straight Line Growth Option

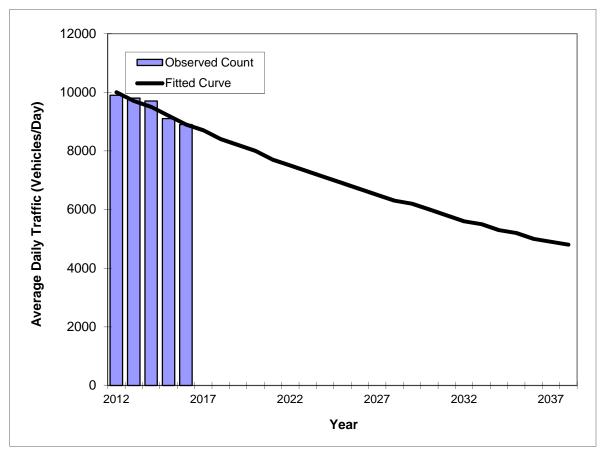
*Axle-Adjusted

Traffic Trends 16th Street -- 200 feet east of Meridian Avenue

 County:
 Miami (87)

 Station #:
 8567

 Highway:
 16th Street



Trend R-squared: 89.94%
Compounded Annual Historic Growth Rate: -2.87%
Printed: 24-Oct-17

Exponential Growth Option

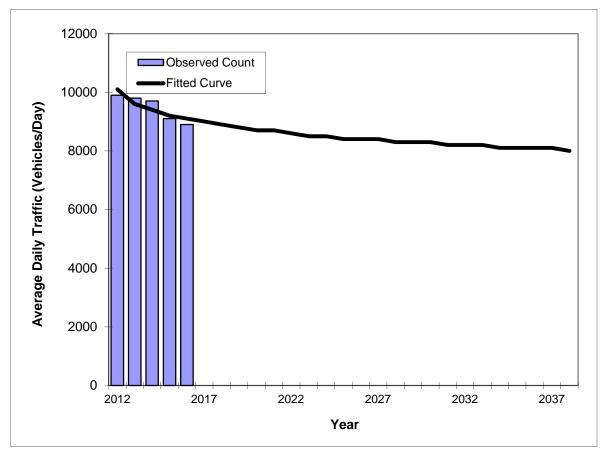
*Axle-Adjusted

Traffic Trends 16th Street -- 200 feet east of Meridian Avenue

 County:
 Miami (87)

 Station #:
 8567

 Highway:
 16th Street



	Traffic (AD	T/AADT)
Year	Count*	Trend**
2012 2013 2014 2015 2016	9900 9800 9700 9100 8900	10100 9600 9400 9200 9100

Trend R-squared: 76.11%
Compounded Annual Historic Growth Rate: -2.57%
Printed: 24-Oct-17

Decaying Exponential Growth Option

*Axle-Adjusted



SERPM Growth Rate Summary

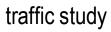
Street Name	2010	2040	Difference	Growth Rate	Annual Growth
Street Name	2010	2040	Difference	Growtii Kate	Rate
Washington Avenue	9,355	9,486	131	1.40%	0.05%
	11,227	11,303	76	0.68%	0.02%
	14,264	14,395	131	0.92%	0.03%
	7,515	7,692	177	2.36%	0.08%
SR A1A/Collins Avenue	24,546	24,373	-173	-0.70%	-0.02%
	21,631	21,529	-102	-0.47%	-0.02%
	19,234	19,296	62	0.32%	0.01%
	17,913	17,958	45	0.25%	0.01%
17th Street	12,021	12,230	209	1.74%	0.06%
	3,691	3,500	-191	-5.17%	-0.17%
Lincoln Road	8,759	8,837	78	0.89%	0.03%
15th Street	2,727	2,835	108	3.96%	0.13%
Total	152,883	153,434	551	0.36%	0.01%

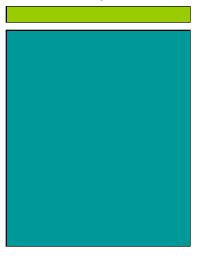


Appendix E

Committed Development Trip Information

1600 Washington Miami Beach, Florida





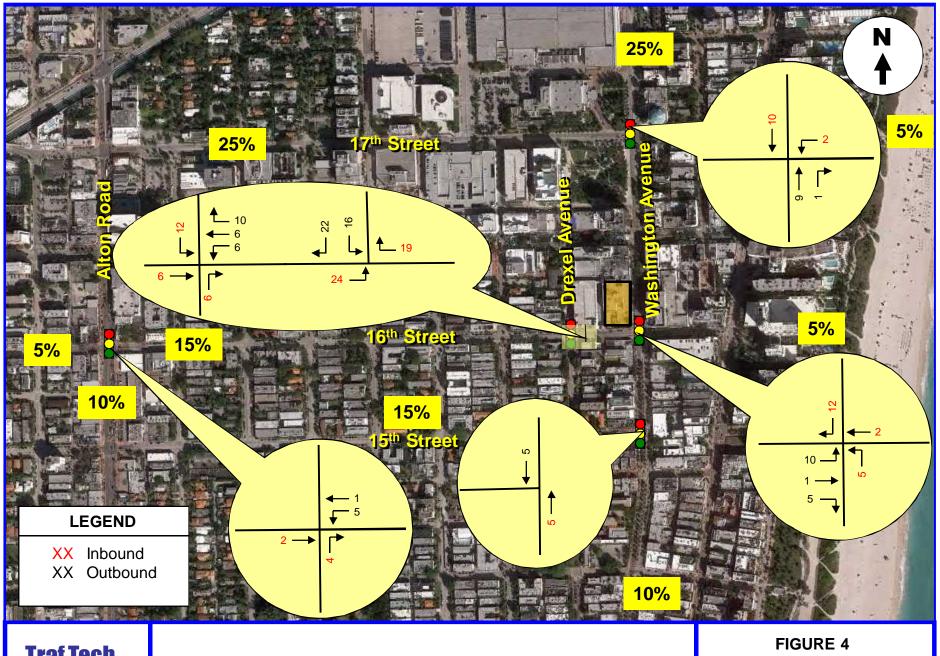




prepared for: 1600 Washington



November 2017



Traf Tech ENGINEERING, INC.

PROJECT TRAFFIC ASSIGNMENT

1600 Washington Miami Beach, Florida



TRAFFIC IMPACT STUDY FINAL REPORT

Miami Beach Convention Center Hotel
City of Miami Beach



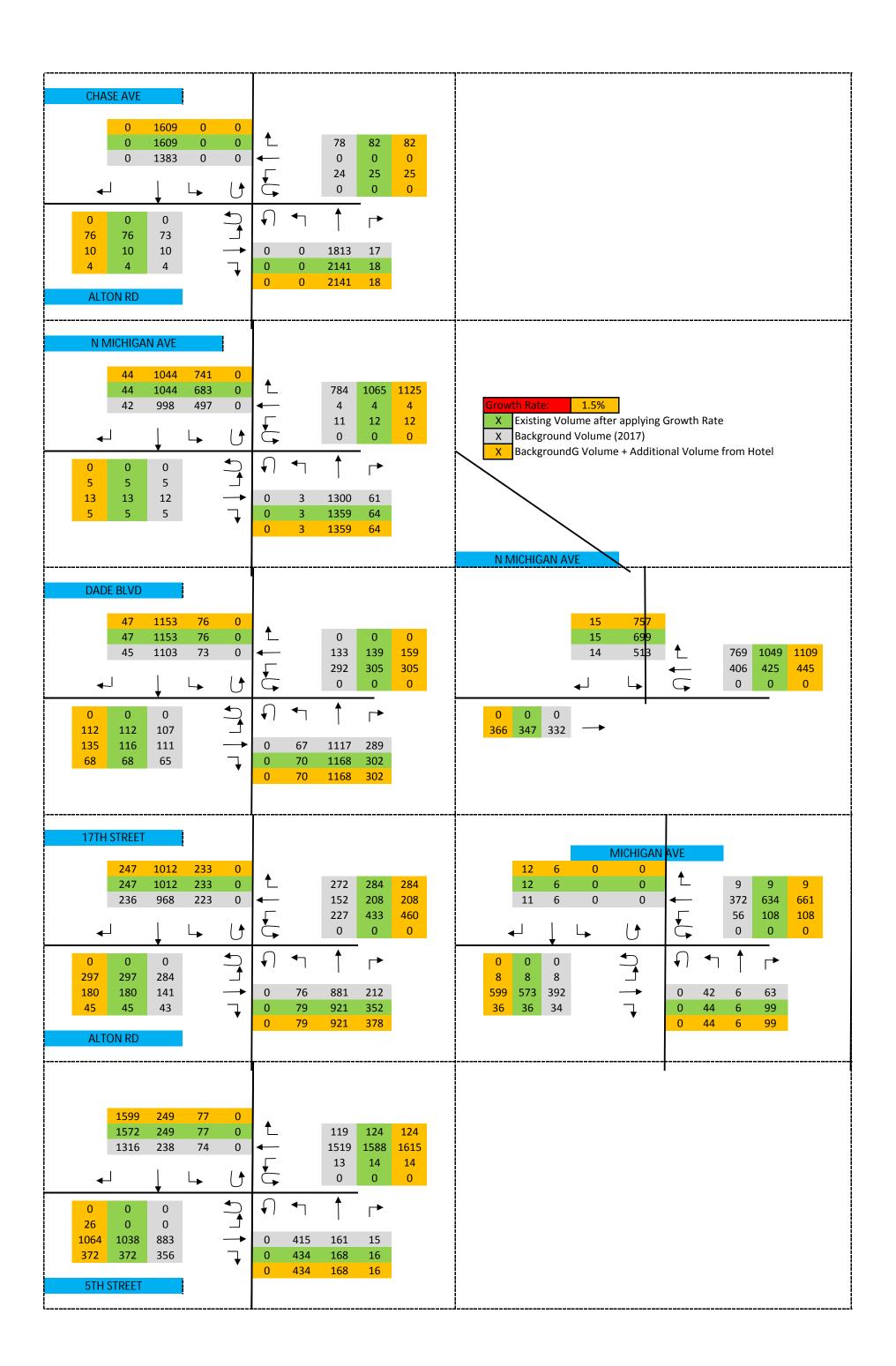
Prepared for



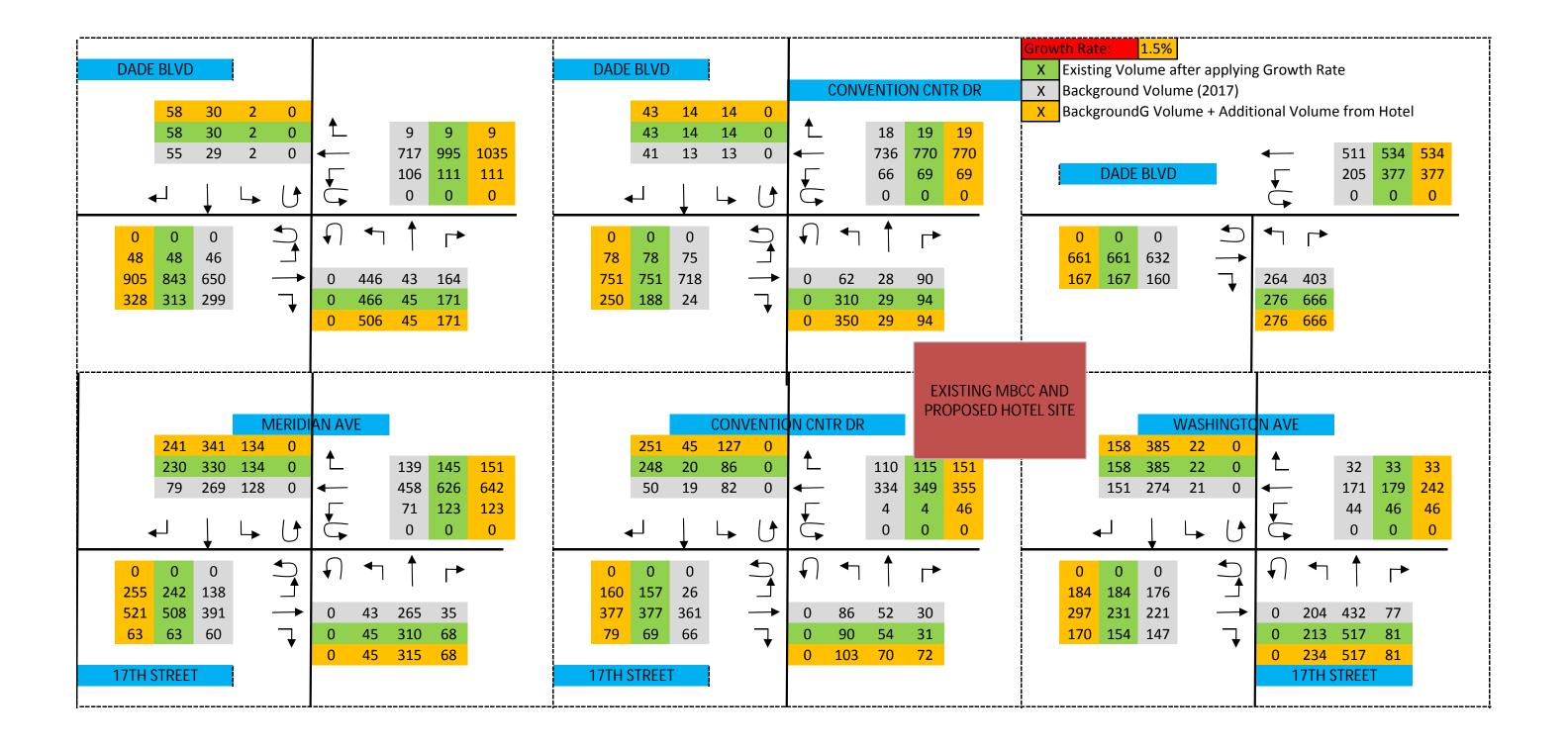
City of Miami Beach
Transportation Department



December 2014



Traffic Volumes based on Growth Rates BG+ALT5



Traffic Volumes based on Growth Rates

BG+ALT5

TRAFFIC IMPACT STUDY

MIAMI BEACH CONVENTION CENTER (CITY OF MIAMI BEACH, FL)



October 2014

PREPARED FOR

FENTRESS ARCHITECTS

Salman Rathore, P.E.

State of Florida Board of Professional Engineers Professional Engineer License No. 75281

> **The Corradino Group** 4055 N.W. 97th Avenue, Suite 200 Doral, Florida 33178

Figure – 7 Project Traffic Assignment

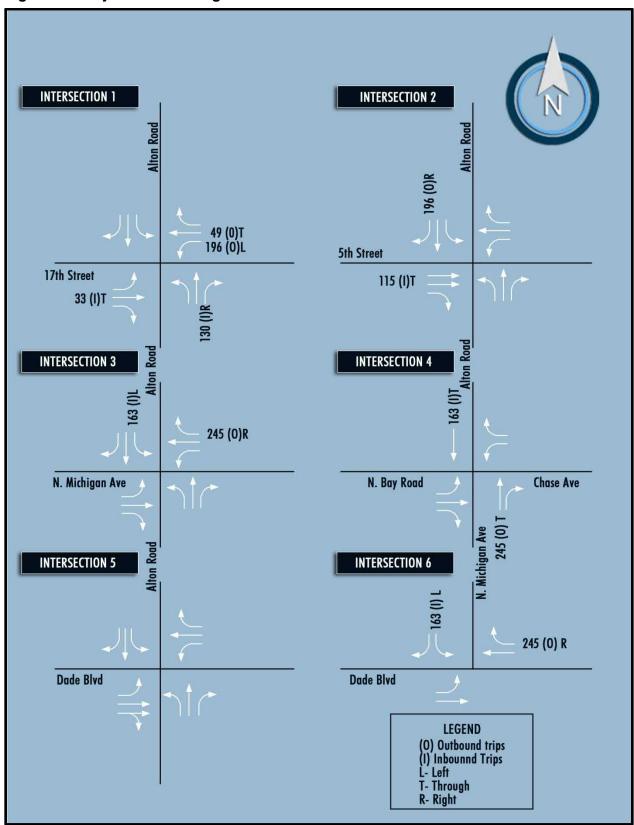
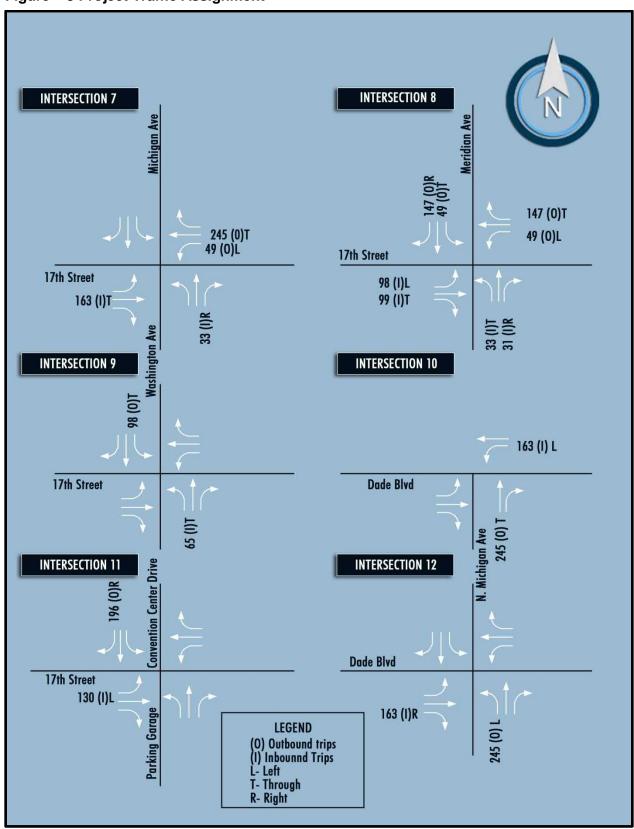


Figure – 8 Project Traffic Assignment



Appendix F

Trip Generation, Taxi Trip Data, and Transit Service Data

Trip Generation

PM PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATION	N CHAR	ACTERIS	STICS		DIREC*	TIONAL BUTION		GROS VOLUM			MODAL CTION ⁽¹⁾	BAS	SELINE .	TRIPS		RNAL TURE	DRI	VEWAY TE	RIPS		S-BY TURE		NET NEW TRIPS	
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	cent Out	ln	Out	Total	Percent	MR Trips	ln	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
_ 1	Drive-In Bank	10	912	6.644	ksf	50%	50%	68	68	136	20.0%	27	54	55	109	0.0%	0	54	55	109	35.0%	38	35	36	71
2																									1
3																									-
G 5																									
R 6																									
0 7																									
U 8 P 9								-	1																─ ─
10																									\vdash
1 1																									
12																									
13																									
15		1			1																				\vdash
	ITE Land Use Code	1	Ra	ite or Equa	ition		Total:	68	68	136	20.0%	27	54	55	109	0.0%	0	54	55	109	35.0%	38	35	36	71
	912			Y=20.45(X		•		(4)	•	•	•	•				•		-	•	•	•		•		

e: (1)Multimodal reduction based on census tract data from the US Census Bureau's Means of Transportation to Work survey.

(1) Multimodal reduction based on census tract data from the US Census Bureau's Means of Transportation to Work survey.

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

ITE TRIP GENERATION	CHARA	CTERIS	STICS		DISTRIE	TIONAL BUTION		GROS: VOLUM	-	MULTI REDUC		BAS	SELINE	TRIPS		RNAL TURE	DRI	VEWAY TE	RIPS	_	S-BY TURE		NET NEW TRIPS	
Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	cent Out	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
Hotel	10	310	150	room	51%	49%	44	42	86	20.0%	17	35	34	69	10.1%	7	31	31	62	0.0%	0	31	31	62
Shopping Center	10	820	2.429	ksf	48%	52%	17	18	35	20.0%	7	14	14	28	32.8%	9	10	9	19	34.0%	6	7	6	13
Valk-in Bank	10	911	4	ksf	51%	49%	25	24	49	20.0%	10	20	19	39	32.8%	13	14	12	26	0.0%	0	14	12	26
Quality Restaurant	10	931	295	seat	67%	33%	56	27	83	20.0%	16	45	22	67	34.3%	23	33	11	44	44.0%	20	18	6	24
						Total:	142	111	253	19.6%	50	114	89	203	25.6%	52	88	63	151	19.5%	26	70	55	125
SI	otel hopping Center alk-in Bank	Land Use Edition total 10 nopping Center 10 alk-in Bank 10 usalty Restaurant 10 ITE Land Use Code	Land Use Edition Code	Land Use Edition Code Scale	Land Use Edition Code Scale Units	Land Use Edition Code Scale Units In In In In In In In I	Land Use	Land Use Edition Code Scale Units In Out In	Land Use Edition Code Scale Units In Out In Out Land Use Edition Code Scale Units In Out In Out Total	Land Use Edition Code Scale Units In Out In Out Total Percent Out Out Total Percent Out Out Total Percent Out Out Total Percent Out Land Use Edition Code Scale Units In Out In Out Total Percent Trips	Land Use Edition Code Scale Units In Out In Out Total Percent Trips In In Out In In Out In In Out In In In In In In In I	Land Use Edition Code Scale Units In Out Total Percent Trips In Out Out Out Total Percent Trips In Out Out Out Out Total Percent Trips In Out Land Use Edition Code Scale Units In Out In Out Total Percent Trips In Out Total Out In Out Total Percent Trips In Out Total Total Percent Trips In Out Total Total Total Percent Trips In Out Total Trips In Out Total Tot	Land Use Edition Code Scale Units In Out Total Percent Trips In Out Out In Out In Out In Out In Out In Out Out In Out In Out Out Out Out Out Out Out Out	Land Use Edition Code Scale Units In Out Total Percent Trips In Out In In Out Total Percent Trips In Out In In In In In In In I	Land Use Edition Code Scale Units In Out In Out Total Percent Trips In Out Total Out Total Percent Trips In Out Total Out Total Out Out Total Out O	Land Use Edition Code Scale Units In Out Total Percent Trips In Out Total Percent Total Percen	Land Use Edition Code Scale Units In Out Total Percent Trips In Out Total Out Total Percent Trips In Out Total Out Total Trips In Out Total Out Total Trips In Out Total Out Out Total Out Out Out Total Out Out Out Out Out Out Out Out Out	Land Use Edition Code Scale Units In Out Total Percent Trips In Out In Out Total Percent Total Percent Total Percent	Land Use Edition Code Scale Units in Out Total Percent Trips in Out Total P	Land Use Edition Code Scale Units In Out In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent In Out Total Percent Trips In Out Total Percent In Out Total Percent Trips In Out In	Land Use Edition Code Scale Units In Out India Percent Trips In Out Total I			

	IN	OUT	TOTAL
PROPOSED EXTERNAL VEHICLE TRIPS	88	63	151
WALK-IN BANK SELF-PARK TRIPS	14	12	26
RETAIL TRIPS	10	9	19
PROPOSED HOTEL AND RESTAURANT VEHICLE TRIPS	64	42	106
42.6% TAXI/RIDESHARE TRIPS	27	18	45
PROPOSED VALET TRIPS (RETAIL, HOTEL, AND RESTAURANT)	47	33	80

NET NEW TRIPS

OUT TOTAL

IN

LN(Y) = 0.74*LN(X)+2.89

Y=12.13(X)

Y=0.28(X)

820

931

Internal Capture Reduction Calculations

Methodology for A.M. Peak Hour and P.M. Peak Hour based on the *Trip Generation Handbook*, 3rd Edition, published by the Institute of Transportation Engineers

Methodology for Daily based on the average of the Unconstrained Rates for the A.M. Peak Hour and P.M. Peak Hour

	SUMMARY (PROPOSED)	
	GR	OSS TRIP GENERATION	
		P.M. Pe	ak Hour
	Land Use —	Enter	Exit
—	Office		
Ď	Retail	34	33
INPUT	Restaurant	45	22
=	Cinema/Entertainment		
	Residential		
	Hotel	35	34
		114	89
		INTERNAL TRIPS	
		P.M. Pe	ak Hour
	Land Use —	Enter	Exit
OUTPUT	Office	0	0
Z	Retail	10	12
	Restaurant	12	11
\prec	Cinema/Entertainment	0	0
O	Residential	0	0
	Hotel	4	3
		26	26
	Total % Reduction	25.0	6%
OUTPUT	Office		
7	Retail	32.	
E	Restaurant	34.	3%
Ž	Cinema/Entertainment		
O	Residential		
	Hotel	10.	1%
		EXTERNAL TRIPS	
	Land Use	P.M. Pe	ak Hour
-		Enter	Exit
OUTPU	Office	0	0
4	Retail	24	21
5	Restaurant	33	11
ō	Cinema/Entertainment	0	0
•	Residential	0	0
	Hotel	31	31
		88	63



B08301

MEANS OF TRANSPORTATION TO WORK

Universe: Workers 16 years and over 2011-2015 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Tell us what you think. Provide feedback to help make American Community Survey data more useful for you.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

(105 + 183) / 909 = 31.68%

	Census Tract 42.0 County, I	
	Estimate	Margin of Error
Total:	909	+/-277
Car, truck, or van:	524	+/-194
Drove alone	509	+/-193
Carpooled:	15	+/-16
In 2-person carpool	8	+/-11
In 3-person carpool	0	+/-13
In 4-person carpool	0	+/-13
In 5- or 6-person carpool	0	+/-13
In 7-or-more-person carpool	7	+/-11
Public transportation (excluding taxicab):	105	+/-77
Bus or trolley bus	56	+/-51
Streetcar or trolley car (carro publico in Puerto Rico)	0	+/-13
Subway or elevated	49	+/-56
Railroad	0	+/-13
Ferryboat	0	+/-13
Taxicab	7	+/-11
Motorcycle	0	+/-13
Bicycle	0	+/-13
Walked	183	+/-123
Other means	25	+/-32
Worked at home	65	+/-42

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

Workers include members of the Armed Forces and civilians who were at work last week.

1 of 2 09/21/2017

While the 2011-2015 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates

Explanation of Symbols:

- 1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
- 2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
 - 3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.
 - 4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.
- 5. An '***' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
- 6. An '*****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
- 7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
 - 8. An '(X)' means that the estimate is not applicable or not available.

Taxi Trip Data

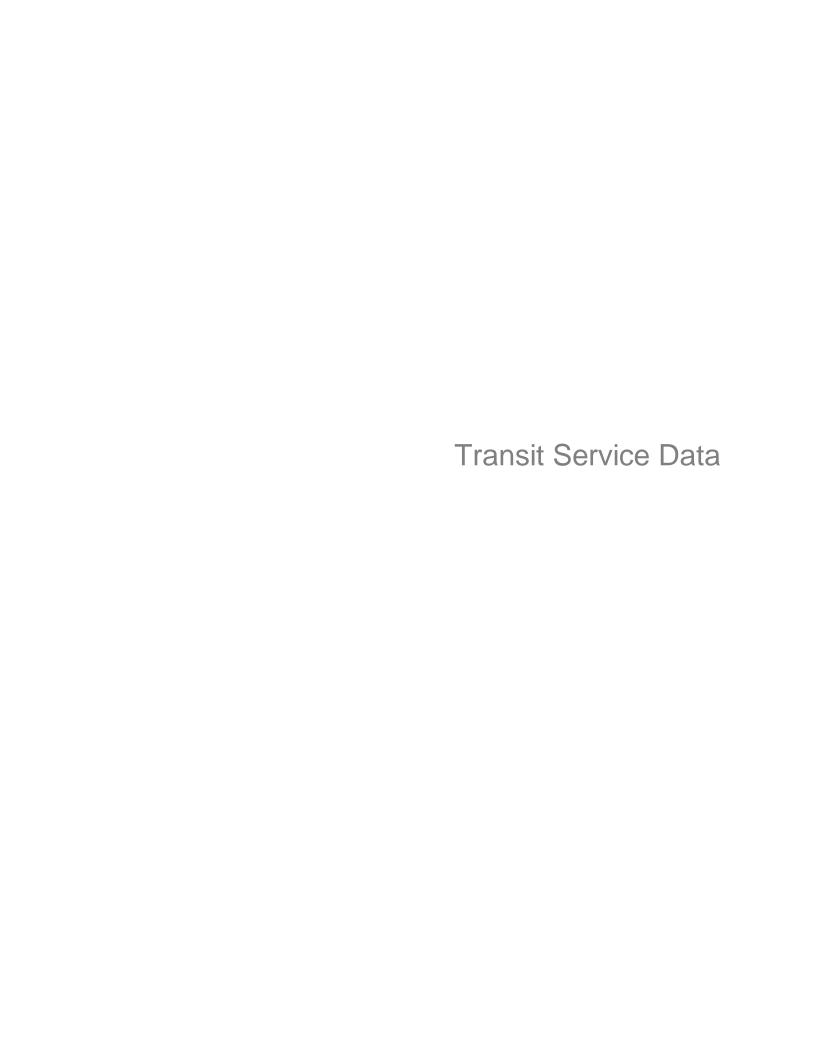
Hotel and Restaurant Valet Drop-off and Pick-up Traffic Data Summary Friday October 22, 2010

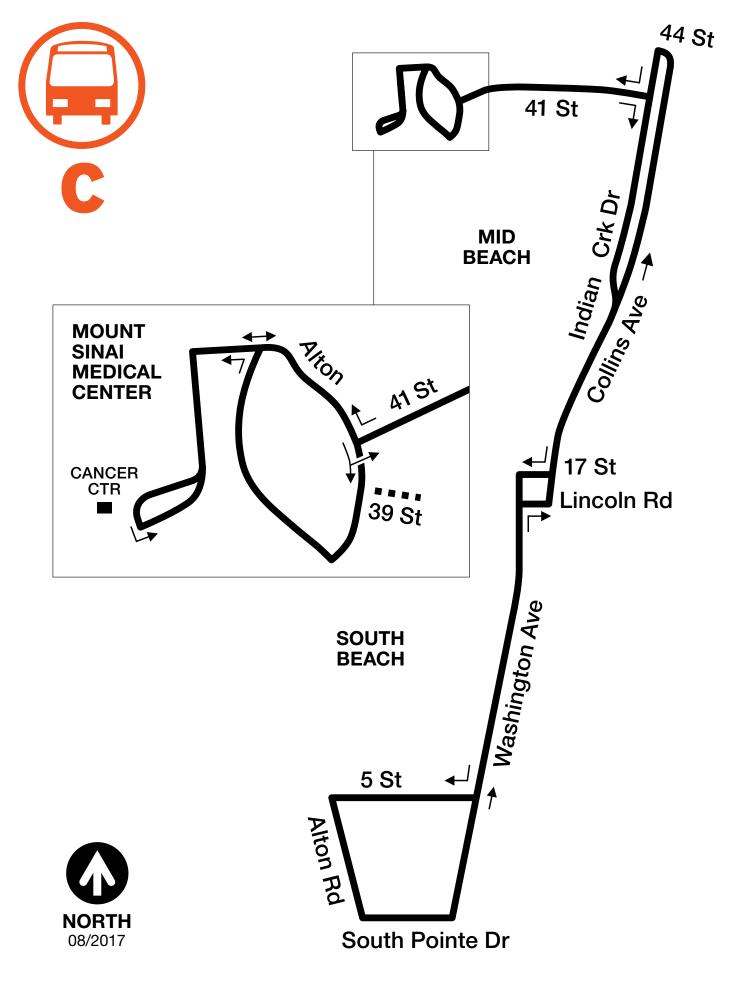
	Hotel Valet Area Observations													
	Hotel Pick- up		Hotel Pick- Up Peak	Hotel Drop- off		Hotel Drop- Off Peak			Total Hotel					
	Maximum	Hotel Pick-	Hour	Maximum	Hotel Drop-	Hour	Total Hotel		Peak Hour					
Time	Queue	Up Volume	Volume	Queue	off Volume	Volume	Volume		Volume					
18:00	0	0		3	18		18							
18:15	2	4		2	3		7							
18:30	2	6		3	7		13							
18:45	4	23	40	4	13	37	36		77					
19:00	3	9		1	3		12							
19:15	2	6		2	7		13							
19:30	1	2		3	14		16							
19:45	0	0		2	4		4							
20:00	1	3		2	7		10							
20:15	1	3		1	2		5							
20:30	3	11		2	7		18							
20:45	3	13		2	6		19							

		Restauran	nt Valet Area O	bservations								
	Restaurnt Restaurant Res											
	Pick-up	Restaurant	Pick-Up Peak	Drop-off	Restaurant	Drop-off						
	Maximum	Pick-Up	Hour	Maximum	Drop-off	Peak Hour						
Time	Queue	Volume	Volume	Queue	Volume	Volume						
18:00	5	17		0	0							
18:15	4	13		2	7	8						
18:30	3	9		0	0							
18:45	3	18		0	0							
19:00	4	15		1	1							
19:15	4	14		1	1							
19:30	5	18		1	1							
19:45	6	27		1	2							
20:00	5	18	81	1	1							
20:15	5	15		0	0							
20:30	5	15		0	1							
20:45	6	33		0	0							

				Taxi vs Va	alet Trips				
						Total Taxi	Total Site	Total Site	
	Valet Pick-	Valet Drop-	Total Valet	Taxi Pick-up	Taxi Drop-	Pick-up	Pick-up	Drop-off	Total Site
Time	up Trips	off Trips	Trips	Trips	off Trips	Trips	Trips	Trips	Trips
18:00	1	11	12	16	7	23	17	18	35
18:15	5	6	11	12	4	16	17	10	27
18:30	3	3	6	12	4	16	15	7	22
18:45	32	10	42	9	3	12	41	13	54
19:00	17	1	18	7	3	10	24	4	28
19:15	12	5	17	8	3	11	20	8	28
19:30	12	12	24	8	3	11	20	15	35
19:45	20	4	24	7	2	9	27	6	33
20:00	10	4	14	11	4	15	21	8	29
20:15	3	1	4	15	1	16	18	2	20
20:30	15	4	19	11	4	15	26	8	34
20:45	35	2	37	11	4	15	46	6	52

Taxi Trips Observed 42.6%















Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamia







103 (Northbound) WEEKDAY

ALTON RD & 2 ST MIAMI BEACH	Lincoln Rd & James Ave	INDIAN CREEK DR & 43 ST	MT SINAI HOSPITAL	ALTON RD & 39 ST MIAMI BEACH
06:11AM	06:28AM	06:38AM	06:48AM	06:51AM
06:41AM	06:58AM	07:09AM	07:20AM	07:23AM
07:11AM	07:29AM	07:40AM	07:51AM	07:54AM
07:41AM	07:59AM	08:11AM	08:22AM	08:25AM
08:11AM	08:29AM	08:41AM	08:52AM	08:55AM
08:41AM	08:59AM	09:13AM	09:25AM	09:28AM
09:11AM	09:31AM	09:45AM	09:57AM	10:00AM
09:41AM	10:01AM	10:15AM	10:27AM	10:30AM
10:11AM	10:31AM	10:45AM	10:57AM	11:00AM
10:41AM	11:01AM	11:15AM	11:27AM	11:30AM
11:11AM	11:31AM	11:45AM	11:57AM	12:00PM
11:41AM	12:01PM	12:15PM	12:27PM	12:30PM
12:11PM	12:31PM	12:45PM	12:57PM	01:00PM
12:41PM	01:01PM	01:15PM	01:27PM	01:30PM
01:11PM	01:31PM	01:45PM	01:57PM	02:00PM
01:41PM	02:01PM	02:15PM	02:27PM	02:30PM
02:11PM	02:31PM	02:45PM	02:57PM	03:00PM
02:41PM	03:01PM	03:15PM	03:27PM	03:30PM
03:11PM	03:31PM	03:45PM	03:57PM	04:00PM
03:41PM	04:01PM	04:15PM	04:28PM	04:31PM

09:39PM

10:25PM

09:50PM

10:34PM

Back to previous page (javascript: history.go(-1))

09:29PM

10:14PM

09:11PM

09:56PM

Page Last Edited: Mon Jan 30, 2017 2:39:07 PM



09:53PM

Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic







103 (Southbound) WEEKDAY

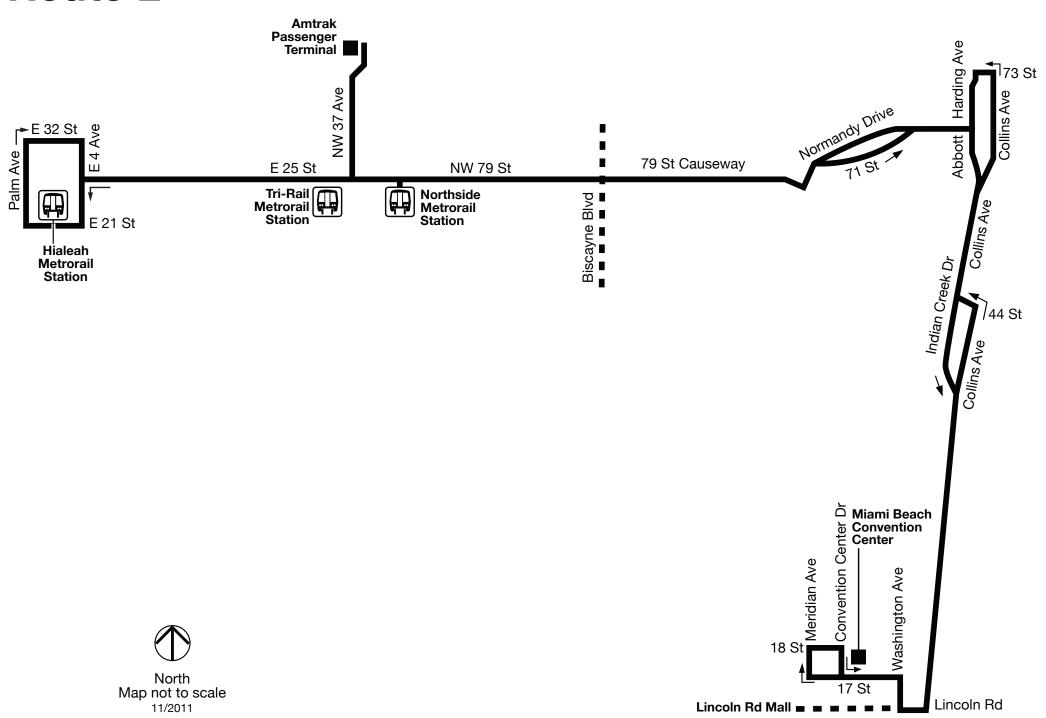
ALTON RD & 39 ST MIAMI BEACH	MT SINAI HOSPITAL	INDIAN CREEK DR & 40 ST	WASHINGTON AVE & LINCOLN RD	ALTON RD & 2 ST MIAMI BEACH
-	06:12AM	06:20AM	06:28AM	06:40AM
-	06:41AM	06:49AM	06:57AM	07:10AM
07:05AM	07:08AM	07:18AM	07:27AM	07:40AM
07:34AM	07:37AM	07:47AM	07:56AM	08:10AM
-	08:05AM	08:16AM	08:26AM	08:40AM
08:29AM	08:32AM	08:43AM	08:53AM	09:10AM
08:57AM	09:00AM	09:12AM	09:23AM	09:40AM
09:27AM	09:30AM	09:42AM	09:53AM	10:10AM
09:57AM	10:00AM	10:12AM	10:23AM	10:40AM
10:27AM	10:30AM	10:42AM	10:53AM	11:10AM
10:57AM	11:00AM	11:12AM	11:23AM	11:40AM
11:27AM	11:30AM	11:42AM	11:53AM	12:10PM
11:57AM	12:00PM	12:12PM	12:23PM	12:40PM
12:27PM	12:30PM	12:42PM	12:53PM	01:10PM
12:57PM	01:00PM	01:12PM	01:23PM	01:40PM
01:27PM	01:30PM	01:42PM	01:53PM	02:10PM
01:57PM	02:00PM	02:12PM	02:23PM	02:40PM
02:27PM	02:30PM	02:42PM	02:53PM	03:10PM
02:57PM	03:00PM	03:12PM	03:23PM	03:40PM
03:27PM	03:30PM	03:42PM	03:53PM	04:10PM

10/24/2017			Routes Schedule - Miami-Dade County					
	03:56PM	03:59PM	04:11PM	04:23PM	04:40PM			
	04:25PM	04:29PM	04:41PM	04:53PM	05:10PM			
	04:55PM	04:59PM	05:11PM	05:23PM	05:40PM			
	05:25PM	05:29PM	05:41PM	05:53PM	06:10PM			
	05:55PM	05:59PM	06:11PM	06:23PM	06:40PM			
	06:25PM	06:29PM	06:41PM	06:53PM	07:10PM			
	07:03PM	07:06PM	07:16PM	07:26PM	07:40PM			
	07:48PM	07:51PM	08:01PM	08:11PM	08:25PM			
	08:33PM	08:36PM	08:46PM	08:56PM	09:10PM			
	09:18PM	09:21PM	09:31PM	09:41PM	09:55PM			
	10:06PM	10:09PM	10:18PM	10:27PM	10:40PM			

Back to previous page (javascript: history.go(-1))



Route L



Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic







112 (Eastbound) WEEKDAY

HIALEAH METRORAIL STATION	NW 37 AVE AMTRAK STATION	NORTHSIDE METRORAIL STATION	NW 79 ST & NW 7 AV	NE 79 ST & BISCAYNE BLVD	ABBOTT AVE & 69 ST MIAMI BEACH	INDIAN CREEK DR & 40 ST	LINCOLN RD & WASHINGTON AVE	17 ST & CONVENTION CENTER DR
04:49AM	-	04:59AM	05:09AM	05:16AM	05:28AM	05:37AM	05:44AM	05:47AM
05:10AM	-	05:20AM	05:30AM	05:37AM	05:49AM	06:00AM	06:09AM	06:12AM
05:31AM	-	05:41AM	05:51AM	05:58AM	06:13AM	06:24AM	06:33AM	06:36AM
05:39AM	-	05:49AM	06:01AM	06:10AM	06:25AM	06:36AM	06:45 AM	06:48AM
05:47AM	-	06:01AM	06:13AM	06:22AM	06:37AM	06:48AM	06:57AM	07:00AM
05:57AM	-	06:11AM	06:23AM	06:32AM	06:47AM	07:00AM	07:09AM	07:12AM
06:09AM	-	06:23AM	06:35AM	06:44AM	06:59AM	07:12AM	07:21AM	07:24AM
06:19AM	-	06:33AM	06:45AM	06:54AM	07:11AM	07:24AM	07:33AM	07:36AM
06:29AM	-	06:43AM	06:55AM	07:06AM	07:23AM	07:36AM	07:45AM	07:48AM
06:38AM	-	06:52AM	07:07AM	07:18AM	07:35AM	07:48AM	07:57AM	08:00AM
06:47AM	-	07:04AM	07:19AM	07:30AM	07:47AM	08:00AM	08:09AM	08:12AM
06:59AM	-	07:16AM	07:31AM	07:42AM	07:59AM	08:12AM	08:21AM	08:24AM
07:08AM	-	07:25AM	07:40AM	07:51AM	08:11AM	08:24AM	08:33AM	08:36AM
-	07:29AM	07:36AM	07:51AM	08:03AM	08:23AM	08:36AM	08:45AM	08:48AM
07:30AM	-	07:47AM	08:03AM	08:15AM	08:35AM	08:48AM	08:57AM	09:00AM
-	07:52AM	07:59AM	08:15AM	08:27AM	08:47AM	09:00AM	09:09AM	09:12AM
07:54AM	-	08:11AM	08:27AM	08:39AM	08:59AM	09:12AM	09:21AM	09:24AM
-	08:17AM	08:23AM	08:39AM	08:51AM	09:11AM	09:24AM	09:33AM	09:36AM
08:20AM	-	08:37AM	08:53AM	09:05AM	09:23AM	09:36AM	09:45AM	09:48AM

17 10720 1	10				oatos concadio	Miami Baac Soai	ity		
	-	08:44AM	08:50AM	09:06AM	09:17AM	09:35AM	09:48AM	09:57AM	10:00AM
08:	46AM	-	09:04AM	09:20AM	09:31AM	09:49AM	10:02AM	10:11AM	10:14AM
	-	09:13AM	09:19AM	09:35AM	09:46AM	10:04AM	10:17AM	10:26AM	10:29AM
09:	16AM	-	09:34AM	09:50AM	10:01AM	10:19AM	10:32AM	10:41AM	10:44AM
	-	09:43AM	09:49AM	10:05AM	10:16AM	10:34AM	10:47AM	10:56AM	10:59AM
09:	46AM	-	10:04AM	10:20AM	10:31AM	10:49AM	11:02AM	11:11AM	11:14AM
	-	10:13AM	10:19AM	10:35AM	10:46AM	11:04AM	11:17AM	11:26AM	11:29AM
10:	16AM	-	10:34AM	10:50AM	11:01AM	11:19AM	11:32AM	11:41AM	11:44AM
	-	10:43AM	10:49AM	11:05AM	11:16AM	11:34AM	11:47AM	11:56AM	11:59AM
10:	46AM	-	11:04AM	11:20AM	11:31AM	11:49AM	12:02PM	12:11PM	12:14PM
	-	11:13AM	11:19AM	11:35AM	11:46AM	12:04PM	12:17PM	12:26PM	12:29PM
11:	16AM	-	11:34AM	11:50AM	12:01PM	12:19PM	12:32PM	12:41PM	12:44PM
	-	11:43AM	11:49AM	12:05PM	12:16PM	12:34PM	12:47PM	12:56PM	12:59PM
11:4	46AM	-	12:04PM	12:20PM	12:31PM	12:49PM	01:02PM	01:11PM	01:14PM
	-	12:13PM	12:19PM	12:35PM	12:46PM	01:04PM	01:17PM	01:26PM	01:29PM
12:	16PM	-	12:34PM	12:50PM	01:01PM	01:19PM	01:32PM	01:41PM	01:44PM
	-	12:43PM	12:49PM	01:05PM	01:16PM	01:34PM	01:47PM	01:56PM	01:59PM
12:	46PM	-	01:04PM	01:20PM	01:31PM	01:49PM	02:02PM	02:11PM	02:14PM
	-	01:14PM	01:20PM	01:36PM	01:47PM	02:05PM	02:18PM	02:27PM	02:30PM
01:	17PM	-	01:35PM	01:51PM	02:02PM	02:20PM	02:33PM	02:42PM	02:45PM
01:	45PM	-	02:03PM	02:19PM	02:30PM	02:48PM	03:01PM	03:09PM	03:12PM
	-	01:45PM	01:51PM	02:07PM	02:18PM	02:36PM	02:49PM	02:58PM	03:01PM
	-	-	02:14PM	02:30PM	02:41PM	02:59PM	03:12PM	03:20PM	03:23PM
	-	02:19PM	02:25PM	02:41PM	02:52PM	03:10PM	03:23PM	03:31PM	03:34PM
02:	19PM	-	02:37PM	02:53PM	03:05PM	03:22PM	03:35PM	03:43PM	03:46PM
02:	43PM	-	03:02PM	03:19PM	03:31PM	03:48PM	04:01PM	04:09PM	04:12PM
	-	02:43PM	02:49PM	03:06PM	03:18PM	03:35PM	03:48PM	03:56PM	03:59PM
03:	07PM	-	03:26PM	03:43PM	03:55PM	04:12PM	04:25PM	04:33PM	04:36PM
	-	03:08PM	03:14PM	03:31PM	03:43PM	04:00PM	04:13PM	04:21PM	04:24PM
03:	31PM	-	03:50PM	04:07PM	04:19PM	04:36PM	04:49PM	04:57PM	05:00PM
	-	03:33PM	03:39PM	03:56PM	04:08PM	04:25PM	04:38PM	04:46PM	04:49PM
03:	55PM	-	04:14PM	04:31PM	04:43PM	05:00PM	05:13PM	05:21PM	05:24PM
	-	03:56PM	04:02PM	04:19PM	04:31PM	04:48PM	05:01PM	05:09PM	05:12PM
04:	19PM	-	04:38PM	04:55PM	05:07PM	05:24PM	05:37PM	05:45PM	05:48PM
	-	04:20PM	04:26PM	04:43PM	04:55PM	05:12PM	05:25PM	05:33PM	05:36PM
04:	43PM	-	05:02PM	05:19PM	05:31PM	05:48PM	06:01PM	06:09PM	06:12PM
	-	04:44PM	04:50PM	05:07PM	05:19PM	05:36PM	05:49PM	05:57PM	06:00PM

1/16/2018				Routes Sched	ule - Miami-Dade (County		
05:07F	'M -	05:26PM	05:43PM	05:55PM	06:12PM	06:25PM	06:33PM	06:36PM
-	05:08PM	05:14PM	05:31PM	05:43PM	06:00PM	06:13PM	06:21PM	06:24PM
05:32F	°M -	05:51PM	06:08PM	06:20PM	06:37PM	06:50PM	06:58PM	07:01PM
-	05:33PM	05:39PM	05:56PM	06:08PM	06:25PM	06:38PM	06:46PM	06:49PM
-	05:56PM	06:02PM	06:19PM	06:31PM	06:48PM	-	-	-
05:57P	'M -	06:16PM	06:33PM	06:45PM	07:02PM	07:13PM	07:22PM	07:25PM
-	06:25PM	06:31PM	06:48PM	07:00PM	07:15PM	07:26PM	07:35PM	07:38PM
06:30F	'M -	06:49PM	07:06PM	07:16PM	07:31PM	07:42PM	07:51PM	07:54PM
-	06:56PM	07:02PM	07:17PM	07:27PM	07:42PM	-	-	-
07:02F	°M -	07:17PM	07:32PM	07:42PM	07:57PM	08:08PM	08:17PM	08:20PM
-	07:30PM	07:35PM	07:50PM	08:00PM	08:14PM	-	-	-
07:41F	PM -	07:56PM	08:11PM	08:20PM	08:34PM	08:44PM	08:53PM	08:56PM
08:08F	PM 08:21PM	08:25PM	08:38PM	08:47PM	09:01PM	09:11PM	09:20PM	09:23PM
08:45P	'M -	08:58PM	09:11PM	09:20PM	09:34PM	09:44PM	09:53PM	09:56PM
09:23F	PM 09:36PM	09:40PM	09:53PM	10:02PM	10:16PM	10:26PM	10:35PM	10:38PM
09:45P	PM -	09:58PM	10:11PM	10:20PM	10:34PM	10:44PM	10:53PM	10:56PM
10:25F	PM -	10:38PM	10:51PM	11:00PM	11:14PM	11:24PM	11:33PM	11:36PM
11:05P	'M -	11:18PM	11:31PM	11:40PM	11:54PM	12:04AM	12:10AM	12:13AM
11:51P	'M -	12:04AM	12:14AM	12:20AM	12:31AM	-	-	-
-	-	12:40AM	12:50AM	12:56AM	01:07AM	01:15AM	01:21AM	01:24AM
-	-	01:40AM	01:50AM	01:56AM	02:07AM	02:15AM	02:21AM	02:24AM
-	-	02:40AM	02:50AM	02:56AM	03:07AM	03:15AM	03:21AM	03:24AM
-	-	03:40AM	03:50AM	03:56AM	04:07AM	04:15AM	04:21AM	04:24AM

04:40AM Back to previous page (javascript: history.go(-1))

04:44AM

04:54AM

05:00AM

05:11AM

05:19AM

05:25AM

05:28AM



Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic







112 (Westbound) WEEKDAY

17 ST & PENNSYLVANIA AV	Lincoln Rd & James Ave	COLLINS AVE & 41 ST	HARDING AVE & 72 ST	NE 79 ST & BISCAYNE BLVD	NW 79 ST & 7 AVE	NW 79 ST & 32 AVE	NW 37 AVE AMTRAK STATION	HIALEAH METRORAIL STATION
04:38AM	04:40AM	04:48AM	04:58AM	05:10AM	05:17AM	05:27AM	-	05:35AM
05:20AM	05:22AM	05:30AM	05:40AM	05:52AM	06:03AM	06:15AM	06:21AM	06:31AM
-	-	-	05:27AM	05:39AM	05:46AM	05:56AM	-	06:06AM
06:05AM	06:07AM	06:15AM	06:28AM	06:42AM	06:53AM	07:06AM	07:12AM	-
-	-	-	06:11AM	06:25AM	06:36AM	06:48AM	-	06:58AM
06:22AM	06:24AM	06:32AM	06:45AM	06:59AM	07:10AM	07:23AM	07:29AM	-
06:34AM	06:36AM	06:44AM	06:57AM	07:12AM	07:23AM	07:36AM	-	07:49AM
-	-	-	06:43AM	06:57AM	07:08AM	07:21AM	-	07:34AM
06:46AM	06:48AM	06:56AM	07:10AM	07:25AM	07:36AM	07:49AM	07:55AM	-
06:58AM	07:00AM	07:08AM	07:22AM	07:37AM	07:48AM	08:02AM	-	08:15AM
07:10AM	07:12AM	07:20AM	07:34AM	07:49AM	08:00AM	08:14AM	08:20AM	-
07:22AM	07:24AM	07:32AM	07:46AM	08:04AM	08:15AM	08:29AM	-	08:42AM
07:34AM	07:36AM	07:44AM	07:58AM	08:16AM	08:27AM	08:41AM	08:47AM	-
07:46AM	07:48AM	07:56AM	08:10AM	08:28AM	08:39AM	08:53AM	-	09:06AM
07:58AM	08:00AM	08:09AM	08:23AM	08:41AM	08:52AM	09:07AM	09:14AM	-
08:10AM	08:12AM	08:21AM	08:35AM	08:53AM	09:06AM	09:21AM	-	09:34AM
08:22AM	08:24AM	08:33AM	08:47AM	09:05AM	09:18AM	09:33AM	09:40AM	-
08:34AM	08:36AM	08:45AM	08:59AM	09:17AM	09:30AM	09:45AM	-	09:58AM
08:46AM	08:48AM	08:57AM	09:12AM	09:29AM	09:42AM	09:57AM	10:04AM	-

						,		
08:58AM	09:00AM	09:10AM	09:25AM	09:42AM	09:55AM	10:10AM	-	10:23AM
09:10AM	09:12AM	09:22AM	09:37AM	09:54AM	10:07AM	10:22AM	10:29AM	-
09:22AM	09:24AM	09:34AM	09:49AM	10:06AM	10:19AM	10:34AM	-	10:47AM
09:34AM	09:36AM	09:46AM	10:01AM	10:18AM	10:31AM	10:46AM	10:53AM	-
09:46AM	09:48AM	09:58AM	10:13AM	10:30AM	10:43AM	10:58AM	-	11:11AM
09:58AM	10:00AM	10:10AM	10:25AM	10:42AM	10:55AM	11:10AM	11:17AM	-
10:13AM	10:15AM	10:25AM	10:40AM	10:57AM	11:10AM	11:25AM	-	11:38AM
10:28AM	10:30AM	10:40AM	10:55AM	11:12AM	11:25AM	11:40AM	11:47AM	-
10:43AM	10:45AM	10:55AM	11:10AM	11:27AM	11:40AM	11:55AM	-	12:08PM
10:58AM	11:00AM	11:10AM	11:25AM	11:42AM	11:55AM	12:10PM	12:17PM	-
11:13AM	11:15AM	11:25AM	11:40AM	11:57AM	12:10PM	12:25PM	-	12:38PM
11:28AM	11:30AM	11:40AM	11:55AM	12:12PM	12:25PM	12:40PM	12:47PM	-
11:43AM	11:45AM	11:55AM	12:10PM	12:27PM	12:40PM	12:55PM	-	01:08PM
11:58AM	12:00PM	12:10PM	12:25PM	12:42PM	12:55PM	01:10PM	01:17PM	-
12:13PM	12:15PM	12:25PM	12:40PM	12:57PM	01:10PM	01:25PM	-	01:38PM
12:28PM	12:30PM	12:40PM	12:55PM	01:12PM	01:25PM	01:40PM	01:47PM	-
12:43PM	12:45PM	12:55PM	01:10PM	01:27PM	01:40PM	01:55PM	-	02:08PM
12:58PM	01:00PM	01:10PM	01:25PM	01:42PM	01:55PM	02:10PM	02:17PM	-
01:13PM	01:15PM	01:25PM	01:40PM	01:57PM	02:10PM	02:25PM	-	02:38PM
01:28PM	01:30PM	01:40PM	01:55PM	02:12PM	02:25PM	02:40PM	02:47PM	-
01:43PM	01:45PM	01:55PM	02:10PM	02:27PM	02:40PM	02:55PM	-	03:08PM
01:58PM	02:00PM	02:10PM	02:25PM	02:42PM	02:55PM	03:12PM	03:18PM	-
02:13PM	02:15PM	02:25PM	02:40PM	02:57PM	03:10PM	03:27PM	-	03:39PM
02:28PM	02:30PM	02:40PM	02:55PM	03:15PM	03:28PM	03:45PM	03:51PM	-
02:43PM	02:45PM	02:55PM	03:12PM	03:32PM	03:45PM	04:02PM	-	04:14PM
02:58PM	03:00PM	03:11PM	03:28PM	03:48PM	04:01PM	04:18PM	04:24PM	-
03:11PM	03:13PM	03:24PM	03:41PM	04:01PM	04:14PM	04:31PM	-	04:43PM
03:22PM	03:24PM	03:35PM	03:52PM	04:12PM	04:25PM	04:42PM	04:48PM	-
03:34PM	03:36PM	03:47PM	04:04PM	04:24PM	04:37PM	04:54PM	-	05:06PM
03:46PM	03:48PM	03:59PM	04:16PM	04:36PM	04:49PM	05:06PM	05:12PM	-
03:58PM	04:00PM	04:11PM	04:28PM	04:48PM	05:01PM	05:18PM	-	05:30PM
04:10PM	04:12PM	04:23PM	04:40PM	05:00PM	05:13PM	05:30PM	05:36PM	-
04:22PM	04:24PM	04:35PM	04:52PM	05:12PM	05:25PM	05:42PM	-	05:54PM
04:34PM	04:36PM	04:47PM	05:04PM	05:24PM	05:37PM	05:54PM	06:00PM	-
04:46PM	04:48PM	04:59PM	05:16PM	05:36PM	05:49PM	06:06PM	-	06:18PM
04:58PM	05:00PM	05:11PM	05:28PM	05:48PM	06:01PM	06:18PM	-	06:30PM
05:10PM	05:12PM	05:23PM	05:40PM	06:00PM	06:13PM	06:30PM	06:36PM	-

02:14AM

03:14AM

04:14AM

02:21AM

03:21AM

04:21AM

02:31AM

03:31AM

04:31AM

04:35AM

Back to previous page (javascript: history.go(-1))

01:42AM

02:42AM

03:42AM

01:50AM

02:50AM

03:50AM

02:02AM

03:02AM

04:02AM

Page Last Edited: Mon Jan 30, 2017 2:39:07 PM

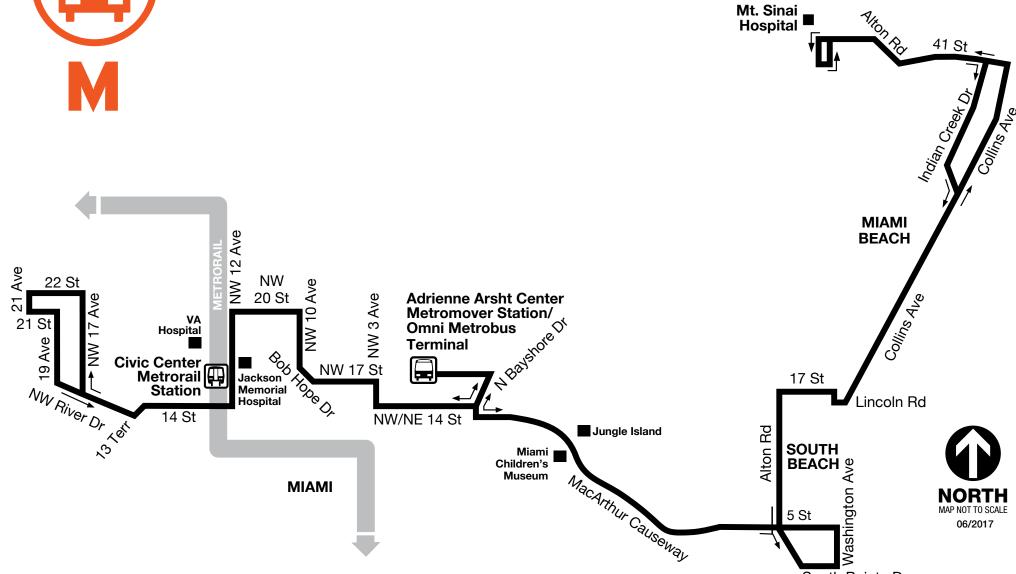


01:40AM

02:40AM

03:40AM



















South Pointe Dr.

Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic

)





113 (Westbound) WEEKDAY

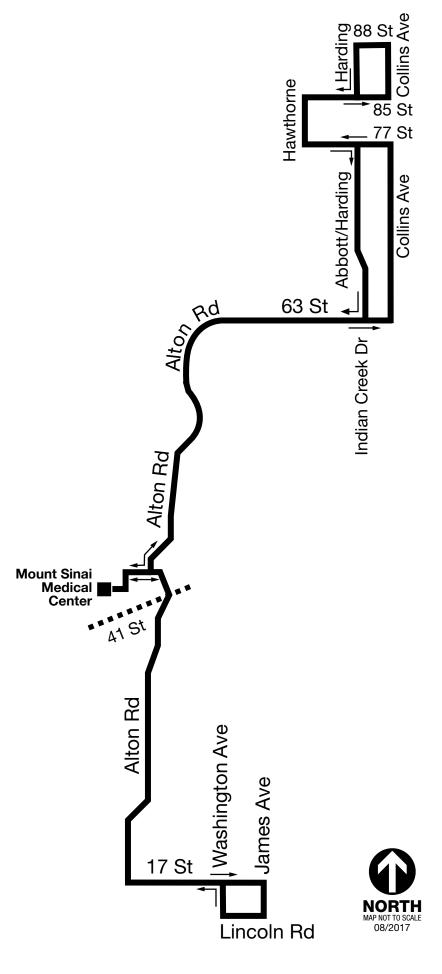
	6:34AM 7:20AM 3:05AM
06:26AM 06:28AM 06:20AM 06:24AM 06:42AM 06:47AM 06:54AM 06:50AM 07:07AM 07	
- 00.20AW 00.20AW 00.30AW 00.34AW 00.42AW 00.47AW 00.34AW 00.34AW 07.07AW 07	3:05AM
07:02AM 07:05AM 07:07AM 07:09AM 07:14AM 07:24AM 07:29AM 07:38AM 07:44AM 07:52AM 08	
07:43AM 07:46AM 07:48AM 07:50AM 07:55AM 08:06AM 08:11AM 08:21AM 08:27AM 08:37AM 08	3:50AM
08:25AM 08:28AM 08:30AM 08:32AM 08:38AM 08:49AM 08:54AM 09:05AM 09:11AM 09:21AM 09	9:35AM
09:17AM 09:20AM 09:23AM 09:25AM 09:31AM 09:43AM 09:49AM 10:00AM 10:06AM 10:16AM 10	0:30AM
10:13AM 10:16AM 10:19AM 10:21AM 10:27AM 10:39AM 10:45AM 10:56AM 11:02AM 11:12AM 11	1:26AM
- 11:16AM 11:19AM 11:21AM 11:27AM 11:39AM 11:45AM 11:56AM 12:02PM 12:12PM 12	2:26PM
- 12:16PM 12:19PM 12:21PM 12:27PM 12:39PM 12:45PM 12:56PM 01:02PM 01:12PM 01	1:26PM
- 01:16PM 01:19PM 01:21PM 01:27PM 01:39PM 01:45PM 01:56PM 02:02PM 02:12PM 02	2:26PM
- 02:06PM 02:09PM 02:11PM 02:17PM 02:29PM 02:35PM 02:46PM 02:52PM 03:02PM 03	3:16PM
- 02:56PM 02:59PM 03:01PM 03:07PM 03:19PM 03:25PM 03:36PM 03:42PM 03:52PM 04	4:06PM
- 03:46PM 03:49PM 03:51PM 03:57PM 04:09PM 04:15PM 04:26PM 04:32PM 04:42PM 04	4:56PM
04:29PM 04:32PM 04:34PM 04:36PM 04:42PM 04:54PM 05:00PM 05:11PM 05:17PM 05:27PM 05	5:41PM
05:14PM 05:17PM 05:19PM 05:21PM 05:27PM 05:39PM 05:45PM 05:56PM 06:02PM 06:12PM 06	6:26PM
06:06PM 06:09PM 06:11PM 06:13PM 06:19PM 06:31PM 06:37PM 06:48PM 06:54PM 07:04PM 07	7:16PM
07:12PM 07:15PM 07:17PM 07:19PM 07:25PM 07:36PM 07:41PM 07:50PM 07:56PM 08:04PM 08	3:16PM
08:12PM 08:15PM 08:17PM 08:19PM 08:25PM 08:36PM 08:41PM 08:50PM 08:56PM 09:04PM 09	9:16PM

08:57PM 09:00PM 09:02PM 09:04PM 09:10PM 09:21PM 09:26PM 09:35PM 09:41PM 09:49PM 10:01PM

Back to previous page (javascript: history.go(-1))













Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic







115 (Northbound) WEEKDAY

LINCOLN RD & WASHINGTON AVE	MT SINAI HOSPITAL	COLLINS AVE & 69 ST	COLLINS AVE & 87 ST
07:16AM	07:31AM	07:45AM	08:01AM
08:06AM	08:21AM	08:35AM	08:51AM
08:56AM	09:11AM	09:25AM	09:41AM
09:46AM	10:00AM	10:14AM	10:30AM
10:36AM	10:50AM	11:04AM	11:20AM
11:26AM	11:40AM	11:54AM	12:10PM
12:16PM	12:30PM	12:44PM	01:00PM
01:06PM	01:20PM	01:34PM	01:50PM
01:56PM	02:10PM	02:24PM	02:40PM
02:46PM	03:00PM	03:14PM	03:30PM
03:36PM	03:50PM	04:04PM	04:19PM
04:26PM	04:40PM	04:54PM	05:09PM
05:16PM	05:30PM	05:44PM	05:59PM
06:06PM	06:20PM	06:34PM	06:49PM
06:56PM	07:10PM	07:22PM	07:37PM
07:46PM	07:57PM	08:09PM	08:24PM
08:36PM	08:47PM	08:59PM	09:14PM

Back to previous page (javascript: history.go(-1))

Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic





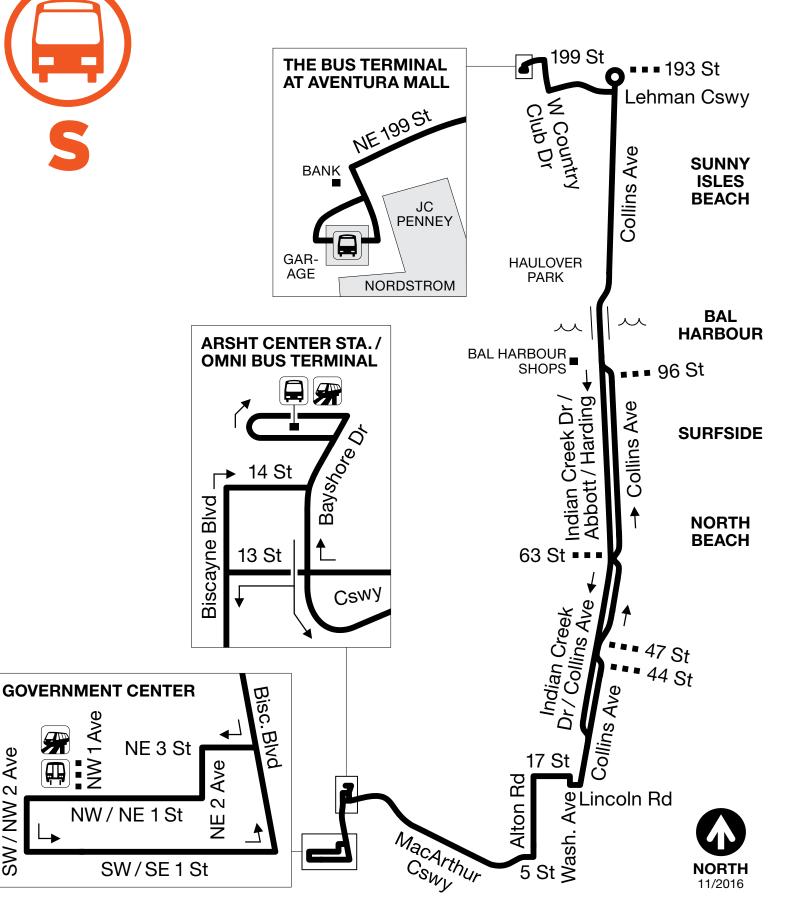


115 (Southbound) WEEKDAY

COLLINS AVE & 87 ST	ABBOTT AVE & 69 ST MIAMI BEACH	MT SINAI HOSPITAL	LINCOLN RD & WASHINGTON AVE
06:30AM	06:42AM	06:53AM	07:10AM
07:20AM	07:34AM	07:47AM	08:04AM
08:10AM	08:24AM	08:37AM	08:54AM
09:00AM	09:12AM	09:25AM	09:44AM
09:50AM	10:02AM	10:15AM	10:34AM
10:40AM	10:52AM	11:05AM	11:24AM
11:30AM	11:42AM	11:55AM	12:14PM
12:20PM	12:32PM	12:45PM	01:04PM
01:10PM	01:22PM	01:35PM	01:54PM
02:00PM	02:12PM	02:25PM	02:44PM
02:50PM	03:02PM	03:15PM	03:34PM
03:40PM	03:52PM	04:05PM	04:24PM
04:30PM	04:42PM	04:55PM	05:14PM
05:20PM	05:32PM	05:45PM	06:04PM
06:10PM	06:22PM	06:35PM	06:54PM
07:00PM	07:12PM	07:22PM	07:37PM
07:50PM	08:02PM	08:12PM	08:27PM
08:40PM	08:52PM	09:02PM	09:17PM

Back to previous page (javascript: history.go(-1))









SW / NW 2 Ave











Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic







119 (Northbound) WEEKDAY

Stephen P Clark Center	OMNI TERMINAL / ARSHT METROMOVER	ALTON RD & 6 ST MIAMI BEACH	17 ST & LENOX AV	Lincoln Rd & James Ave	COLLINS AV & 43 ST	COLLINS AVE & 69 ST	COLLINS AVE & 96 ST MIAMI BEACH	Collins Ave at 16900 blk	COLLINS AVE & 193 ST	Bus Terminal at Aventura Mall
05:00AM	05:09AM	05:16AM	05:22AM	05:27AM	05:33AM	05:41AM	05:49AM	05:55AM	06:03AM	06:10AM
05:24AM	05:33AM	05:40AM	05:46AM	05:51AM	05:57AM	06:08AM	06:18AM	06:26AM	06:34AM	06:41AM
05:36AM	05:45AM	05:52AM	05:58AM	06:04AM	06:12AM	06:23AM	06:33AM	06:41AM	06:49AM	06:56AM
05:48AM	05:57AM	06:05AM	06:12AM	06:18AM	06:26AM	06:37AM	06:47AM	06:55AM	07:05AM	07:13AM
06:00AM	06:12AM	06:20AM	06:27AM	06:33AM	06:41AM	06:52AM	07:03AM	07:12AM	07:22AM	07:30AM
06:15AM	06:27AM	06:35AM	06:42AM	06:48AM	06:56AM	07:09AM	07:20AM	07:29AM	07:39AM	07:47AM
06:30AM	06:42AM	06:50AM	06:57AM	07:03AM	07:11AM	07:24AM	07:35AM	07:44AM	07:54AM	08:02AM
06:45AM	06:57AM	07:07AM	07:15AM	07:21AM	07:29AM	07:42AM	07:53AM	08:03AM	08:13AM	08:21AM
06:59AM	07:12AM	07:22AM	07:30AM	07:36AM	07:44AM	07:57AM	08:08AM	08:18AM	08:28AM	08:36AM
07:15AM	07:28AM	07:38AM	07:46AM	07:52AM	08:01AM	08:14AM	08:25AM	08:35AM	08:45AM	08:53AM
07:30AM	07:43AM	07:53AM	08:01AM	08:08AM	08:17AM	08:30AM	08:41AM	08:51AM	09:01AM	09:10AM
07:45AM	07:58AM	08:09AM	08:17AM	08:24AM	08:33AM	08:46AM	08:57AM	09:07AM	09:17AM	09:26AM
08:00AM	08:14AM	08:25AM	08:33AM	08:40AM	08:49AM	09:03AM	09:14AM	09:23AM	09:33AM	09:42AM
08:15AM	08:29AM	08:40AM	08:48AM	08:55AM	09:06AM	09:20AM	09:31AM	09:40AM	09:50AM	09:59AM
08:30AM	08:44AM	08:55AM	09:04AM	09:12AM	09:23AM	09:37AM	09:48AM	09:57AM	10:07AM	10:16AM
08:45AM	08:59AM	09:11AM	09:20AM	09:28AM	09:39AM	09:53AM	10:04AM	10:13AM	10:23AM	10:32AM
09:00AM	09:16AM	09:28AM	09:37AM	09:45AM	09:56AM	10:10AM	10:21AM	10:30AM	10:40AM	10:49AM
09:15AM	09:31AM	09:43AM	09:52AM	10:00AM	10:11AM	10:25AM	10:36AM	10:45AM	10:55AM	11:04AM

10/24/2017				Routes	Schedule - M	liami-Dade C	ounty			
09:30AM	09:46AM	09:58AM	10:07AM	10:15AM	10:26AM	10:40AM	10:51AM	11:00AM	11:10AM	11:19AM
09:45AM	10:01AM	10:13AM	10:22AM	10:30AM	10:41AM	10:55AM	11:06AM	11:15AM	11:25AM	11:34AM
10:00AM	10:16AM	10:28AM	10:37AM	10:45AM	10:56AM	11:10AM	11:21AM	11:30AM	11:40AM	11:49AM
10:15AM	10:31AM	10:43AM	10:52AM	11:00AM	11:11AM	11:25AM	11:36AM	11:45AM	11:55AM	12:04PM
10:30AM	10:46AM	10:58AM	11:07AM	11:15AM	11:26AM	11:40AM	11:51AM	12:00PM	12:10PM	12:19PM
10:45AM	11:01AM	11:13AM	11:22AM	11:30AM	11:41AM	11:55AM	12:06PM	12:15PM	12:25PM	12:34PM
11:00AM	11:16AM	11:28AM	11:37AM	11:45AM	11:56AM	12:10PM	12:21PM	12:30PM	12:40PM	12:49PM
11:15AM	11:31AM	11:43AM	11:52AM	12:00PM	12:11PM	12:25PM	12:36PM	12:45PM	12:55PM	01:04PM
11:30AM	11:46AM	11:58AM	12:07PM	12:15PM	12:26PM	12:40PM	12:51PM	01:00PM	01:10PM	01:19PM
11:45AM	12:01PM	12:13PM	12:22PM	12:30PM	12:41PM	12:55PM	01:06PM	01:15PM	01:25PM	01:34PM
12:00PM	12:16PM	12:28PM	12:37PM	12:45PM	12:56PM	01:10PM	01:21PM	01:30PM	01:40PM	01:49PM
12:15PM	12:31PM	12:43PM	12:52PM	01:00PM	01:11PM	01:25PM	01:36PM	01:45PM	01:55PM	02:04PM
12:30PM	12:46PM	12:58PM	01:07PM	01:15PM	01:26PM	01:40PM	01:51PM	02:01PM	02:11PM	02:20PM
12:45PM	01:01PM	01:13PM	01:22PM	01:30PM	01:41PM	01:55PM	02:07PM	02:17PM	02:27PM	02:36PM
01:00PM	01:16PM	01:28PM	01:37PM	01:45PM	01:56PM	02:11PM	02:23PM	02:33PM	02:43PM	02:52PM
01:15PM	01:31PM	01:43PM	01:52PM	02:01PM	02:13PM	02:28PM	02:40PM	02:50PM	03:00PM	03:09PM
01:30PM	01:46PM	01:58PM	02:08PM	02:17PM	02:29PM	02:44PM	02:56PM	03:06PM	03:16PM	03:25PM
01:45PM	02:01PM	02:14PM	02:24PM	02:33PM	02:45PM	03:00PM	03:12PM	03:22PM	03:32PM	03:41PM
02:00PM	02:16PM	02:29PM	02:39PM	02:48PM	03:00PM	03:15PM	03:27PM	03:37PM	03:47PM	03:56PM
02:15PM	02:31PM	02:44PM	02:54PM	03:03PM	03:15PM	03:30PM	03:42PM	03:52PM	04:02PM	04:11PM
02:30PM	02:46PM	02:59PM	03:09PM	03:18PM	03:30PM	03:45PM	03:57PM	04:07PM	04:16PM	04:25PM
02:45PM	03:01PM	03:14PM	03:24PM	03:33PM	03:45PM	04:00PM	04:11PM	04:21PM	04:30PM	04:39PM
03:00PM	03:16PM	03:29PM	03:39PM	03:48PM	04:00PM	04:15PM	04:26PM	04:36PM	04:45PM	04:54PM
03:15PM	03:31PM	03:44PM	03:54PM	04:03PM	04:14PM	04:29PM	04:40PM	04:50PM	04:59PM	05:08PM
03:30PM	03:46PM	03:59PM	04:09PM	04:18PM	04:29PM	04:44PM	04:55PM	05:05PM	05:14PM	05:23PM
03:42PM	03:58PM	04:11PM	04:21PM	04:30PM	04:41PM	04:56PM	05:07PM	05:17PM	05:26PM	05:35PM
03:54PM	04:11PM	04:23PM	04:33PM	04:42PM	04:53PM	05:08PM	05:19PM	05:29PM	05:38PM	05:47PM
04:06PM	04:23PM	04:35PM	04:45PM	04:54PM	05:05PM	05:20PM	05:31PM	05:41PM	05:50PM	05:59PM
04:18PM	04:35PM	04:47PM	04:57PM	05:06PM	05:17PM	05:32PM	05:43PM	05:53PM	06:02PM	06:11PM
04:30PM	04:47PM	04:59PM	05:09PM	05:18PM	05:29PM	05:44PM	05:55PM	06:05PM	06:14PM	06:23PM
04:42PM	04:59PM	05:11PM	05:21PM	05:30PM	05:41PM	05:56PM	06:07PM	06:17PM	06:26PM	06:35PM
04:54PM	05:11PM	05:23PM	05:33PM	05:42PM	05:53PM	06:08PM	06:19PM	06:29PM	06:38PM	06:47PM
05:06PM	05:23PM	05:35PM	05:45PM	05:54PM	06:05PM	06:20PM	06:31PM	06:41PM	06:50PM	06:59PM
05:18PM	05:35PM	05:47PM	05:57PM	06:06PM	06:17PM	06:32PM	06:43PM	06:53PM	07:02PM	07:10PM
05:30PM	05:47PM	05:59PM	06:09PM	06:18PM	06:29PM	06:44PM	06:55PM	07:05PM	07:13PM	07:21PM
05:42PM	05:59PM	06:11PM	06:21PM	06:30PM	06:41PM	06:56PM	07:07PM	07:15PM	07:23PM	07:31PM
05:54PM	06:11PM	06:23PM	06:33PM	06:42PM	06:53PM	07:08PM	07:17PM	07:25PM	07:33PM	07:41PM

10/24/2017				Routes	Schedule - M	liami-Dade Co	ounty			
06:06PM	06:23PM	06:35PM	06:45PM	06:54PM	07:05PM	07:17PM	07:26PM	07:34PM	07:42PM	07:50PM
06:18PM	06:35PM	06:47PM	06:57PM	07:06PM	07:16PM	07:28PM	07:37PM	07:45PM	07:53PM	08:01PM
06:30PM	06:47PM	06:59PM	07:09PM	07:17PM	07:27PM	07:39PM	07:48PM	07:56PM	08:04PM	08:12PM
06:44PM	07:01PM	07:10PM	07:18PM	07:26PM	07:36PM	07:48PM	07:57PM	08:05PM	08:13PM	08:21PM
07:00PM	07:14PM	07:23PM	07:31PM	07:39PM	07:49PM	08:01PM	08:10PM	08:18PM	08:26PM	08:34PM
07:16PM	07:30PM	07:39PM	07:47PM	07:55PM	08:05PM	08:17PM	08:26PM	08:34PM	08:42PM	08:50PM
07:30PM	07:44PM	07:53PM	08:01PM	08:09PM	08:19PM	08:31PM	08:40PM	08:48PM	08:56PM	09:04PM
07:48PM	08:02PM	08:11PM	08:19PM	08:27PM	08:37PM	08:49PM	08:58PM	09:06PM	09:14PM	09:22PM
08:10PM	08:24PM	08:33PM	08:41PM	08:49PM	08:59PM	09:11PM	09:20PM	09:28PM	09:36PM	09:44PM
08:35PM	08:49PM	08:58PM	09:06PM	09:14PM	09:24PM	09:36PM	09:45PM	09:53PM	10:01PM	10:08PM
09:00PM	09:14PM	09:23PM	09:31PM	09:39PM	09:49PM	10:01PM	10:10PM	10:17PM	10:24PM	10:31PM
09:25PM	09:39PM	09:48PM	09:56PM	10:04PM	10:14PM	10:26PM	10:35PM	10:42PM	10:49PM	10:56PM
09:50PM	10:04PM	10:11PM	10:18PM	10:26PM	10:36PM	10:48PM	10:57PM	11:04PM	11:11PM	11:18PM
10:15PM	10:28PM	10:35PM	10:42PM	10:50PM	11:00PM	11:12PM	11:21PM	11:28PM	11:35PM	11:42PM
10:40PM	10:53PM	11:00PM	11:07PM	11:15PM	11:25PM	11:37PM	11:46PM	11:53PM	12:00AM	12:06AM
11:10PM	11:23PM	11:30PM	11:37PM	11:45PM	11:55PM	12:07AM	12:15AM	12:21AM	12:27AM	12:33AM
11:40PM	11:53PM	12:00AM	12:06AM	12:13AM	12:21AM	12:30AM	12:38AM	12:44AM	12:50AM	12:55AM
12:10AM	12:21AM	12:28AM	12:34AM	12:41AM	12:49AM	12:58AM	01:06AM	01:12AM	01:18AM	01:24AM
12:40AM	12:51AM	12:58AM	01:04AM	01:11AM	01:19AM	01:28AM	01:36AM	01:42AM	01:48AM	01:54AM
01:10AM	01:21AM	01:28AM	01:34AM	01:41AM	01:49AM	01:58AM	02:06AM	02:12AM	02:18AM	02:24AM
02:10AM	02:21AM	02:28AM	02:34AM	02:41AM	02:49AM	02:58AM	03:06AM	03:12AM	03:18AM	03:24AM
03:10AM	03:21AM	03:28AM	03:34AM	03:41AM	03:49AM	03:58AM	04:06AM	04:12AM	04:18AM	04:24AM

04:34AM 04:41AM 04:49AM 04:58AM

05:06AM

05:12AM 05:18AM 05:24AM

Back to previous page (javascript: history.go(-1))

04:28AM

04:21AM

Page Last Edited: Mon Jan 30, 2017 2:39:07 PM



04:10AM

Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic

)





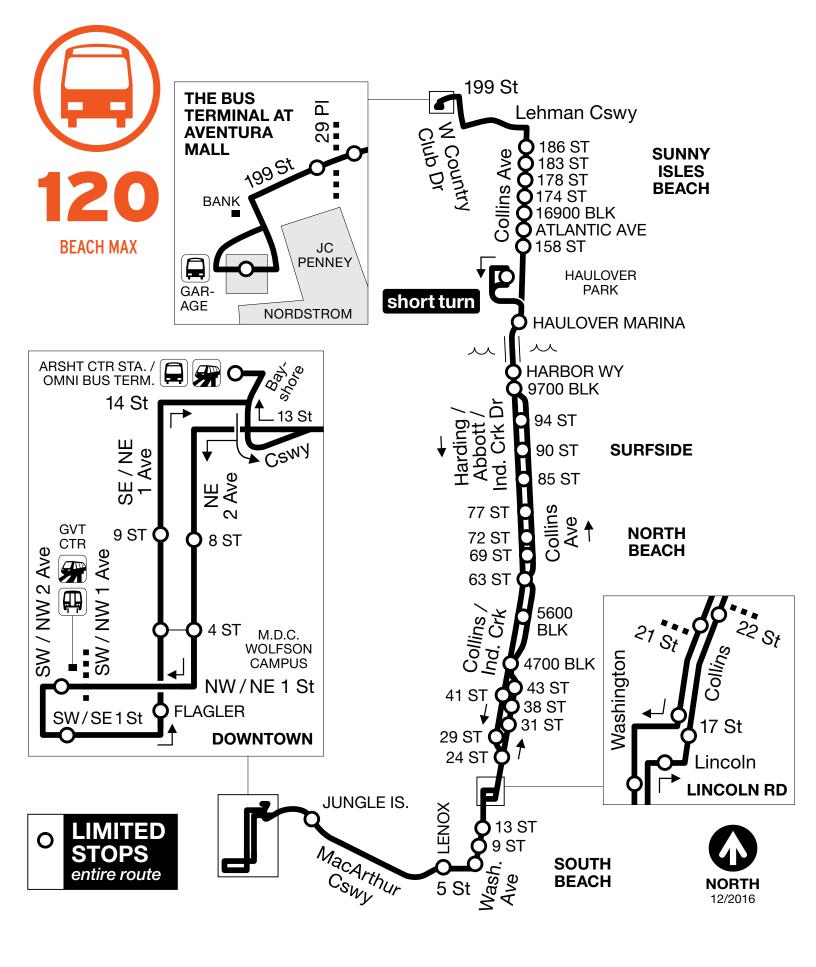
119 (Southbound) WEEKDAY

Bus Terminal at Aventura Mall	COLLINS AVE & 193 ST	COLLINS AVE & 163 ST	BAL HARBOUR SHOPS	ABBOTT AVE & 69 ST MIAMI BEACH	INDIAN CREEK DR & 40 ST	LINCOLN RD & WASHINGTON AVE	ALTON RD & LINCOLN RD MIAMI BEACH	ALTON RD & 6 ST MIAMI BEACH	OMNI TERMINAL / ARSHT METROMOVER	Stephen P Clark Center
04:16AM	04:23AM	04:29AM	04:35AM	04:44AM	04:52AM	04:58AM	05:03AM	05:08AM	05:14AM	05:24AM
04:53AM	05:00AM	05:06AM	05:12AM	05:21AM	05:29AM	05:35AM	05:40AM	05:45AM	05:51AM	06:05AM
05:13AM	05:20AM	05:26AM	05:32AM	05:41AM	05:49AM	05:55AM	06:01AM	06:07AM	06:15AM	06:29AM
05:28AM	05:35AM	05:41AM	05:47AM	05:56AM	06:07AM	06:15AM	06:21AM	06:27AM	06:35AM	06:49AM
05:46AM	05:53AM	05:59AM	06:06AM	06:16AM	06:27AM	06:35AM	06:41AM	06:47AM	06:55AM	07:10AM
05:59AM	06:08AM	06:16AM	06:23AM	06:33AM	06:44AM	06:52AM	06:58AM	07:04AM	07:12AM	07:27AM
06:15AM	06:24AM	06:32AM	06:39AM	06:49AM	07:01AM	07:10AM	07:17AM	07:23AM	07:31AM	07:46AM
06:28AM	06:37AM	06:45AM	06:52AM	07:04AM	07:16AM	07:25AM	07:32AM	07:38AM	07:46AM	08:01AM
06:42AM	06:51AM	06:59AM	07:07AM	07:19AM	07:31AM	07:40AM	07:47AM	07:53AM	08:01AM	08:16AM
06:53AM	07:04AM	07:13AM	07:21AM	07:33AM	07:45AM	07:54AM	08:01AM	08:08AM	08:16AM	08:31AM
07:06AM	07:17AM	07:26AM	07:34AM	07:46AM	08:00AM	08:09AM	08:16AM	08:23AM	08:31AM	08:46AM
07:21AM	07:32AM	07:41AM	07:49AM	08:01AM	08:15AM	08:24AM	08:31AM	08:38AM	08:46AM	09:01AM
07:35AM	07:46AM	07:55AM	08:03AM	08:15AM	08:29AM	08:38AM	08:45AM	08:52AM	09:01AM	09:16AM
07:47AM	07:58AM	08:09AM	08:17AM	08:29AM	08:43AM	08:52AM	08:59AM	09:07AM	09:16AM	09:31AM
07:58AM	08:10AM	08:21AM	08:29AM	08:41AM	08:55AM	09:05AM	09:14AM	09:22AM	09:31AM	09:46AM
08:12AM	08:24AM	08:35AM	08:43AM	08:55AM	09:10AM	09:20AM	09:29AM	09:37AM	09:46AM	10:01AM
08:27AM	08:39AM	08:50AM	08:58AM	09:10AM	09:25AM	09:35AM	09:44AM	09:52AM	10:01AM	10:16AM
08:42AM	08:54AM	09:05AM	09:13AM	09:25AM	09:40AM	09:50AM	09:59AM	10:07AM	10:16AM	10:31AM

10/24/2017					Routes Sched	ule - Miami-Dade	e County			
05:10PM	05:27PM	05:38PM	05:46PM	05:58PM	06:13PM	06:23PM	06:32PM	06:40PM	06:50PM	07:06PM
05:30PM	05:47PM	05:58PM	06:06PM	06:18PM	06:33PM	06:43PM	06:52PM	07:00PM	07:07PM	07:19PM
05:45PM	06:02PM	06:13PM	06:21PM	06:33PM	06:48PM	06:58PM	07:07PM	07:13PM	07:20PM	07:32PM
06:01PM	06:18PM	06:29PM	06:37PM	06:49PM	07:04PM	07:13PM	07:20PM	07:26PM	07:33PM	07:45PM
06:16PM	06:33PM	06:44PM	06:52PM	07:04PM	07:15PM	07:24PM	07:31PM	07:37PM	07:44PM	07:56PM
06:30PM	06:47PM	06:58PM	07:06PM	07:16PM	07:27PM	07:36PM	07:43PM	07:49PM	07:56PM	08:08PM
06:45PM	07:02PM	07:11PM	07:18PM	07:28PM	07:39PM	07:48PM	07:55PM	08:01PM	08:08PM	08:20PM
07:01PM	07:16PM	07:25PM	07:32PM	07:42PM	07:53PM	08:02PM	08:09PM	08:15PM	08:22PM	08:34PM
07:15PM	07:30PM	07:39PM	07:46PM	07:56PM	08:07PM	08:16PM	08:23PM	08:29PM	08:36PM	08:48PM
07:29PM	07:44PM	07:53PM	08:00PM	08:10PM	08:21PM	08:30PM	08:37PM	08:43PM	08:50PM	09:02PM
07:44PM	07:59PM	08:08PM	08:15PM	08:25PM	08:36PM	08:45PM	08:52PM	08:58PM	09:05PM	09:17PM
07:59PM	08:14PM	08:23PM	08:30PM	08:40PM	08:51PM	09:00PM	09:07PM	09:13PM	09:20PM	09:32PM
08:14PM	08:29PM	08:38PM	08:45PM	08:55PM	09:06PM	09:15PM	09:22PM	09:28PM	09:35PM	09:47PM
08:29PM	08:44PM	08:53PM	09:00PM	09:10PM	09:21PM	09:30PM	09:37PM	09:43PM	09:50PM	10:02PM
08:44PM	08:59PM	09:08PM	09:15PM	09:25PM	09:36PM	09:45PM	09:52PM	09:58PM	10:05PM	10:15PM
08:59PM	09:14PM	09:23PM	09:30PM	09:40PM	09:51PM	10:00PM	10:07PM	10:12PM	10:19PM	10:29PM
09:15PM	09:30PM	09:39PM	09:46PM	09:56PM	10:07PM	10:15PM	10:22PM	10:27PM	10:34PM	10:44PM
09:32PM	09:47PM	09:56PM	10:03PM	10:12PM	10:22PM	10:30PM	10:37PM	10:42PM	10:49PM	10:59PM
09:54PM	10:09PM	10:17PM	10:23PM	10:32PM	10:42PM	10:50PM	10:57PM	11:02PM	11:09PM	11:19PM
10:22PM	10:34PM	10:42PM	10:48PM	10:57PM	11:07PM	11:15PM	11:22PM	11:27PM	11:34PM	11:44PM
10:47PM	10:59PM	11:07PM	11:13PM	11:22PM	11:32PM	11:40PM	11:47PM	11:52PM	11:59PM	12:09AM
11:12PM	11:24PM	11:32PM	11:38PM	11:47PM	11:57PM	12:05AM	12:11AM	12:16AM	12:22AM	12:32AM
11:42PM	11:54PM	12:02AM	12:08AM	12:16AM	12:24AM	12:30AM	12:36AM	12:41AM	12:47AM	12:57AM
12:13AM	12:23AM	12:30AM	12:36AM	12:44AM	12:52AM	12:58AM	01:04AM	01:09AM	01:15AM	01:25AM
12:43AM	12:53AM	01:00AM	01:06AM	01:14AM	01:22AM	01:28AM	01:34AM	01:39AM	01:45AM	01:55AM
01:43AM	01:53AM	02:00AM	02:06AM	02:14AM	02:22AM	02:28AM	02:34AM	02:39AM	02:45AM	02:55AM
02:43AM	02:53AM	03:00AM	03:06AM	03:14AM	03:22AM	03:28AM	03:34AM	03:39AM	03:45AM	03:55AM
03:43AM	03:53AM	04:00AM	04:06AM	04:14AM	04:22AM	04:28AM	04:34AM	04:39AM	04:45AM	04:55AM

Back to previous page (javascript: history.go(-1))

















Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic







120 (Northbound) WEEKDAY

Stephen P Clark Center	OMNI TERMINAL / ARSHT METROMOVER	Lincoln Rd & James Ave	COLLINS AV & 43 ST	COLLINS AVE & 69 ST	COLLINS AV & # 9701	Haulover Club Parking Lot	Collins Ave at 16900 blk	Bus Terminal at Aventura Mall
05:00AM	05:10AM	05:26AM	05:33AM	05:40AM	05:47AM	-	05:53AM	05:59AM
05:45AM	05:55 AM	06:12AM	06:20AM	06:28AM	06:36AM	-	06:42AM	06:50AM
06:15AM	06:26AM	06:43AM	06:51AM	06:59AM	07:08AM	07:13AM	-	-
06:45AM	06:56AM	07:14AM	07:22AM	07:31AM	07:40AM	-	07:47AM	07:59AM
07:00AM	07:15AM	07:33AM	07:41AM	07:50AM	07:59AM	08:04AM	-	-
07:13AM	07:28AM	07:46AM	07:54AM	08:04AM	08:13AM	-	08:21AM	08:33AM
07:24AM	07:39AM	07:57AM	08:06AM	08:16AM	08:25AM	-	08:33AM	08:45AM
07:35AM	07:50AM	08:10AM	08:19AM	08:29AM	08:38AM	-	08:46AM	08:58AM
07:45AM	08:03AM	08:23AM	08:32AM	08:42AM	08:52AM	08:57AM	-	-
MA00:80	08:18AM	08:38AM	08:47AM	08:57AM	09:07AM	-	09:15AM	09:27AM
08:15AM	08:33AM	08:53AM	09:03AM	09:13AM	09:23AM	09:28AM	-	-
08:30AM	08:48AM	09:10AM	09:20AM	09:30AM	09:40AM	-	09:48AM	10:00AM
08:45AM	09:03AM	09:25AM	09:35AM	09:45AM	09:55AM	10:00AM	-	-
09:00AM	09:18AM	09:40AM	09:50AM	10:00AM	10:10AM	-	10:18AM	10:30AM
09:15AM	09:33AM	09:55AM	10:05AM	10:15AM	10:25AM	10:30AM	-	-
09:30AM	09:48AM	10:10AM	10:20AM	10:30AM	10:40AM	-	10:48AM	11:00AM
09:45AM	10:03AM	10:25AM	10:35AM	10:45AM	10:55AM	11:00AM	-	-
10:00AM	10:18AM	10:40AM	10:50AM	11:00AM	11:10AM	-	11:18AM	11:30AM
10:12AM	10:30AM	10:52AM	11:02AM	11:12AM	11:22AM	11:27AM	-	-

10/24/2017			Routes	s Schedule - M	iami-Dade Cou	nty		
10:25AM	10:43AM	11:05AM	11:15AM	11:25AM	11:35AM	-	11:43AM	11:55AM
10:37AM	10:55AM	11:17AM	11:27AM	11:37AM	11:47AM	11:52AM	-	-
10:48AM	11:06AM	11:28AM	11:38AM	11:48AM	11:58AM	-	12:06PM	12:18PM
11:00AM	11:18AM	11:40AM	11:50AM	12:00PM	12:10PM	12:15PM	-	-
11:12AM	11:30AM	11:52AM	12:02PM	12:12PM	12:22PM	-	12:30PM	12:42PM
11:24AM	11:42AM	12:04PM	12:14PM	12:24PM	12:34PM	12:39PM	-	-
11:35AM	11:53AM	12:15PM	12:25PM	12:35PM	12:45PM	-	12:53PM	01:05PM
11:48AM	12:06PM	12:28PM	12:38PM	12:48PM	12:58PM	01:03PM	-	-
12:00PM	12:18PM	12:40PM	12:50PM	01:00PM	01:10PM	-	01:18PM	01:30PM
12:12PM	12:30PM	12:52PM	01:02PM	01:12PM	01:22PM	01:27PM	-	-
12:24PM	12:42PM	01:04PM	01:14PM	01:24PM	01:34PM	-	01:42PM	01:54PM
12:36PM	12:54PM	01:16PM	01:26PM	01:36PM	01:46PM	01:51PM	-	-
12:48PM	01:06PM	01:28PM	01:38PM	01:48PM	01:58PM	-	02:06PM	02:18PM
01:00PM	01:18PM	01:40PM	01:50PM	02:00PM	02:10PM	02:15PM	-	-
01:12PM	01:30PM	01:52PM	02:02PM	02:12PM	02:22PM	-	02:30PM	02:42PM
01:24PM	01:42PM	02:04PM	02:14PM	02:24PM	02:34PM	02:39PM	-	-
01:36PM	01:54PM	02:16PM	02:26PM	02:36PM	02:46PM	-	02:54PM	03:07PM
01:48PM	02:06PM	02:28PM	02:38PM	02:48PM	02:58PM	03:03PM	-	-
02:00PM	02:18PM	02:40PM	02:50PM	03:01PM	03:11PM	-	03:19PM	03:32PM
02:12PM	02:30PM	02:52PM	03:02PM	03:13PM	03:23PM	03:28PM	-	-
02:24PM	02:42PM	03:04PM	03:14PM	03:25PM	03:35PM	-	03:43PM	03:56PM
02:36PM	02:54PM	03:16PM	03:26PM	03:37PM	03:47PM	03:52PM	-	-
02:48PM	03:07PM	03:29PM	03:39PM	03:50PM	04:00PM	-	04:08PM	04:21PM
03:00PM	03:19PM	03:41PM	03:51PM	04:02PM	04:12PM	04:17PM	-	-
03:12PM	03:31PM	03:53PM	04:03PM	04:14PM	04:24PM	-	04:32PM	04:45PM
03:24PM	03:43PM	04:05PM	04:15PM	04:26PM	04:36PM	04:41PM	-	-
03:36PM	03:55PM	04:17PM	04:27PM	04:38PM	04:48PM	-	04:56PM	05:09PM
03:48PM	04:07PM	04:29PM	04:39PM	04:50PM	05:00PM	05:05PM	-	-
04:00PM	04:19PM	04:41PM	04:51PM	05:02PM	05:12PM	-	05:20PM	05:33PM
04:12PM	04:31PM	04:53PM	05:03PM	05:14PM	05:24PM	05:29PM	-	-
04:24PM	04:43PM	05:05PM	05:15PM	05:26PM	05:36PM	-	05:44PM	05:57PM
04:36PM	04:55PM	05:17PM	05:27PM	05:38PM	05:48PM	05:53PM	-	-
04:48PM	05:07PM	05:29PM	05:39PM	05:50PM	06:00PM	-	06:08PM	06:21PM
05:00PM	05:19PM	05:41PM	05:51PM	06:02PM	06:12PM	06:17PM	-	-
05:15PM	05:34PM	05:56PM	06:06PM	06:17PM	06:27PM	-	06:35PM	06:48PM
05:30PM	05:49PM	06:11PM	06:21PM	06:32PM	06:42PM	06:47PM	-	-
05:46PM	06:05PM	06:27PM	06:37PM	06:48PM	06:58PM	-	07:06PM	07:17PM

10/24/2017			Routes	Schedule - Mi	iami-Dade Cou	nty		
06:02PM	06:21PM	06:43PM	06:53PM	07:04PM	07:12PM	07:17PM	-	-
06:20PM	06:39PM	07:01PM	07:11PM	07:20PM	07:28PM	-	07:35PM	07:46PM
06:40PM	06:59PM	07:21PM	07:31PM	07:40PM	07:48PM	-	07:55PM	08:06PM
07:05PM	07:18PM	07:38PM	07:48PM	07:57PM	08:05PM	-	08:12PM	08:23PM
07:35PM	07:48PM	08:08PM	08:18PM	08:27PM	08:35PM	-	08:42PM	08:53PM
08:15PM	08:28PM	08:48PM	08:58PM	09:07PM	09:15PM	-	09:22PM	09:33PM
08:55PM	09:08PM	09:28PM	09:38PM	09:47PM	09:55PM	-	10:02PM	10:12PM
09:30PM	09:43PM	10:03PM	10:12PM	10:20PM	10:28PM	10:32PM	-	-

Back to previous page (javascript: history.go(-1))



Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamia







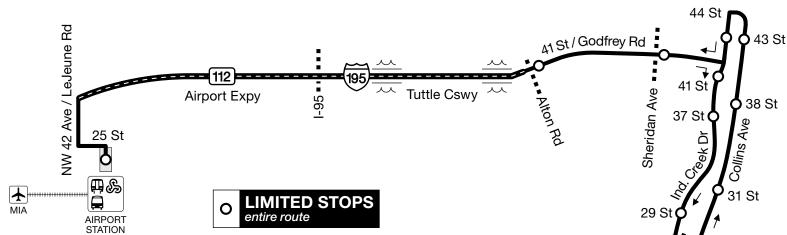
120 (Southbound) WEEKDAY

Bus Terminal at Aventura Mall	COLLINS AV & # 16830	Haulover Club Parking Lot	BAL HARBOUR SHOPS	ABBOTT AVE & 69 ST MIAMI BEACH	INDIAN CREEK DR & 40 ST	WASHINGTON AVE & LINCOLN RD	OMNI TERMINAL / ARSHT METROMOVER	Stephen P Clark Center
-	-	06:00AM	06:05AM	06:14AM	06:23AM	06:31AM	06:46AM	06:56AM
06:00AM	06:13AM	-	06:19AM	06:28AM	06:37AM	06:45AM	07:02AM	07:13AM
06:30AM	06:43AM	-	06:49AM	06:58AM	07:08AM	07:17AM	07:34AM	07:45AM
-	-	06:30AM	06:35AM	06:44AM	06:53AM	07:02AM	07:19AM	07:30AM
06:54AM	07:09AM	-	07:16AM	07:28AM	07:38AM	07:47AM	08:06AM	08:17AM
-	-	06:55AM	07:02AM	07:14AM	07:24AM	07:33AM	07:50AM	08:01AM
07:21AM	07:36AM	-	07:43AM	07:55AM	08:06AM	08:15AM	08:34AM	08:45AM
-	-	07:23AM	07:30AM	07:42AM	07:52AM	08:01AM	08:20AM	08:31AM
07:33AM	07:48AM	-	07:55AM	08:10AM	08:21AM	08:30AM	08:49AM	09:01AM
07:45AM	08:02AM	-	08:09AM	08:24AM	08:35AM	08:44AM	09:04AM	09:16AM
08:00AM	08:17AM	-	08:24AM	08:39AM	08:50AM	08:59AM	09:19AM	09:31AM
08:27AM	08:44AM	-	08:51AM	09:06AM	09:19AM	09:29AM	09:49AM	10:01AM
-	-	08:29AM	08:36AM	08:51AM	09:04AM	09:14AM	09:34AM	09:46AM
08:59AM	09:16AM	-	09:23AM	09:34AM	09:47AM	09:57AM	10: 17AM	10:29AM
-	-	09:02AM	09:09AM	09:20AM	09:33AM	09:43AM	10:03AM	10:15AM
09:31AM	09:48AM	-	09:55AM	10:06AM	10: 19AM	10:29AM	10:49AM	11:01AM
-	-	09:32AM	09:39AM	09:50AM	10:03AM	10:13AM	10:33AM	10:45AM
-	-	10:00AM	10:07AM	10:18AM	10:31AM	10:41AM	11:01AM	11:13AM
10:05AM	10:22AM	-	10:29AM	10:40AM	10:53AM	11:03AM	11:23AM	11:35AM

0,	L 1/2017				reaces Seriodale	Wilditii Baao Ge	Janey		
	-	-	10:11AM	10:18AM	10:29AM	10:42AM	10:52AM	11:12AM	11:24AM
	10:31AM	10:48AM	-	10:55AM	11:06AM	11:19AM	11:29AM	11:49AM	12:01PM
	-	-	10:35AM	10:42AM	10:53AM	11:06AM	11:16AM	11:36AM	11:48AM
	10:56AM	11:13AM	-	11:20AM	11:31AM	11:44AM	11:54AM	12:14PM	12:26PM
	-	-	11:01AM	11:08AM	11:19AM	11:32AM	11:42AM	12:02PM	12:14PM
	11:20AM	11:37AM	-	11:44AM	11:55AM	12:08PM	12:18PM	12:38PM	12:50PM
	-	-	11:25AM	11:32AM	11:43AM	11:56AM	12:06PM	12:26PM	12:38PM
	11:44AM	12:01PM	-	12:08PM	12:19PM	12:32PM	12:42PM	01:02PM	01:14PM
	-	-	11:49AM	11:56AM	12:07PM	12:20PM	12:30PM	12:50PM	01:02PM
	12:08PM	12:25PM	-	12:32PM	12:43PM	12:56PM	01:06PM	01:26PM	01:38PM
	-	-	12:13PM	12:20PM	12:31PM	12:44PM	12:54PM	01:14PM	01:26PM
	12:32PM	12:49PM	-	12:56PM	01:07PM	01:20PM	01:30PM	01:50PM	02:02PM
	-	-	12:37PM	12:44PM	12:55PM	01:08PM	01:18PM	01:38PM	01:50PM
	12:56PM	01:13PM	-	01:20PM	01:31PM	01:44PM	01:54PM	02:14PM	02:26PM
	-	-	01:01PM	01:08PM	01:19PM	01:32PM	01:42PM	02:02PM	02:14PM
	01:20PM	01:37PM	-	01:44PM	01:55PM	02:08PM	02:18PM	02:38PM	02:50PM
	-	-	01:25PM	01:32PM	01:43PM	01:56PM	02:06PM	02:26PM	02:38PM
	01:44PM	02:01PM	-	02:08PM	02:19PM	02:32PM	02:42PM	03:02PM	03:14PM
	-	-	01:49PM	01:56PM	02:07PM	02:20PM	02:30PM	02:50PM	03:02PM
	02:08PM	02:25PM	-	02:32PM	02:43PM	02:56PM	03:06PM	03:26PM	03:38PM
	-	-	02:13PM	02:20PM	02:31PM	02:44PM	02:54PM	03:14PM	03:26PM
	02:31PM	02:48PM	-	02:55PM	03:06PM	03:19PM	03:29PM	03:49PM	04:02PM
	-	-	02:37PM	02:44PM	02:55PM	03:08PM	03:18PM	03:38PM	03:50PM
	02:51PM	03:08PM	-	03:15PM	03:26PM	03:39PM	03:49PM	04:13PM	04:26PM
	-	-	02:56PM	03:03PM	03:14PM	03:27PM	03:37PM	04:01PM	04:14PM
	03:15PM	03:32PM	-	03:39PM	03:50PM	04:03PM	04:13PM	04:37PM	04:50PM
	-	-	03:20PM	03:27PM	03:38PM	03:51PM	04:01PM	04:25PM	04:38PM
	03:38PM	03:55PM	-	04:03PM	04:14PM	04:27PM	04:37PM	05:01PM	05:14PM
	-	-	03:44PM	03:51PM	04:02PM	04:15PM	04:25PM	04:49PM	05:02PM
	03:58PM	04:17PM	-	04:25PM	04:36PM	04:49PM	04:59PM	05:23PM	05:36PM
	-	-	04:07PM	04:14PM	04:25PM	04:38PM	04:48PM	05:12PM	05:25PM
	04:24PM	04:43PM	-	04:51PM	05:02PM	05:15PM	05:25PM	05:49PM	06:02PM
	-	-	04:31PM	04:38PM	04:49PM	05:02PM	05:12PM	05:36PM	05:49PM
	-	-	04:59PM	05:06PM	05:17PM	05:30PM	05:40PM	06:04PM	06:15PM
	04:59PM	05:18PM	-	05:26PM	05:37PM	05:50PM	06:00PM	06:19PM	06:30PM
	05:33PM	05:52PM	-	06:00PM	06:10PM	06:20PM	06:30PM	06:49PM	07:00PM
	-	-	05:34PM	05:41PM	05:52PM	06:05PM	06:15PM	06:34PM	06:45PM

Back to previous page (javascript: history.go(-1))





EVERY/CADA/CHAK

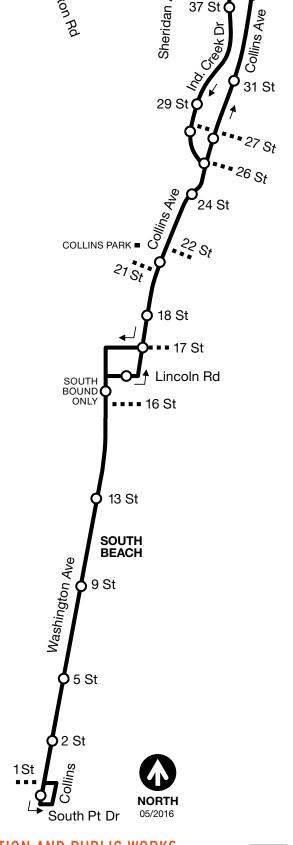


EASTBOUND RUMBO ESTE/DIREKSYON IS MIA METRORAIL STATION 6:00 a.m. 11:40 p.m. 41 ST & ALTON RD 6:14 a.m. 11:52 p.m. 41 ST & INDIAN CREEK 6:20 a.m. 12:06 a.m. SOUTH POINTE DR & WASHINGTON AVE WESTBOUND RUMBO OESTE/DIREKSYON WES SOUTH POINTE DR & WASHINGTON AVE FROM DESDE • DE WASHINGTON AVE 5:10 a.m. 10:55 p.m. 41 ST & INDIAN CREEK 5:20 a.m. 11:14 p.m. 41 ST & ALTON RD 5:33 a.m. 11:18 p.m. MIA METRORAIL STATION 5:45 a.m. 11:30 p.m.	LOS SIETE DIAS SET JOU YON SEMEN	20) _m
STATION 6:00 a.m. 11:40 p.m. 41 ST & ALTON RD 6:14 a.m. 11:52 p.m. 41 ST & INDIAN CREEK 6:20 a.m. 11:57 p.m. LINCOLN RD & 6:29 a.m. 12:06 a.m. SOUTH POINTE DR & WASHINGTON AVE 6:39 a.m. 12:16 a.m. WESTBOUND FROM UNTIL* HASTA * A SOUTH POINTE DR & WASHINGTON AVE 5:10 a.m. 10:55 p.m. LINCOLN RD & WASHINGTON AVE 5:20 a.m. 11:05 p.m. 41 ST & INDIAN CREEK 5:29 a.m. 11:14 p.m. MIA METRORAIL 5:45 a.m. 11:30 p.m.			
41 ST & INDIAN CREEK 6:20 a.m. 11:57 p.m. LINCOLN RD & 6:29 a.m. 12:06 a.m. SOUTH POINTE DR & 6:39 a.m. 12:16 a.m. WESTBOUND FROM DESDE • DE HASTA • A SOUTH POINTE DR & WASHINGTON AVE 5:10 a.m. 10:55 p.m. LINCOLN RD & WASHINGTON AVE 5:20 a.m. 11:05 p.m. 41 ST & INDIAN CREEK 5:29 a.m. 11:14 p.m. MIA METRORAIL 5:45 a.m. 11:30 p.m.		6:00 a.m.	11:40 p.m.
LINCOLN RD & 6:29 a.m. 12:06 a.m. SOUTH POINTE DR & WASHINGTON AVE WESTBOUND FROM DESDE DE HASTA A SOUTH POINTE DR & WASHINGTON AVE SOUTH POINTE DR & WASHINGTON AVE LINCOLN RD & WASHINGTON AVE LINCOLN RD & 5:20 a.m. 11:05 p.m. 41 ST & ALTON RD 5:33 a.m. 11:18 p.m.	41 ST & ALTON RD	6:14 a.m.	11:52 p.m.
WASHINGTON AVE SOUTH POINTE DR & WASHINGTON AVE WESTBOUND FROM DESDE • DE SOUTH POINTE DR & WASHINGTON AVE SOUTH POINTE DR & WASHINGTON AVE LINCOLN RD & WASHINGTON AVE LINCOLN RD & WASHINGTON AVE 41 ST & INDIAN CREEK 5:29 a.m. 11:14 p.m. MIA METRORAIL 5:45 a.m. 11:30 p.m.	41 ST & INDIAN CREEK	6:20 a.m.	11:57 p.m.
WESTBOUND RUMBO OESTE/DIREKSYON WES SOUTH POINTE DR & WASHINGTON AVE LINCOLN RD & WASHINGTON AVE 41 ST & INDIAN CREEK MIA METRORAIL 5:45 a.m. 12:16 a.m. 10:55 p.m. 10:55 p.m. 11:05 p.m. 11:14 p.m.		6:29 a.m.	12:06 a.m.
SOUTH POINTE DR & WASHINGTON AVE LINCOLN RD & WASHINGTON AVE LINCOLN RD & 5:20 a.m. 11:05 p.m. 41 ST & INDIAN CREEK 5:29 a.m. 11:14 p.m. MIA METRORAIL 5:45 a.m. 11:30 p.m.	***************************************	6:39 a.m.	12:16 a.m.
### WASHINGTON AVE 5:10 a.m. 10:55 p.m. LINCOLN RD & 5:20 a.m. 11:05 p.m. 41 ST & INDIAN CREEK 5:29 a.m. 11:14 p.m. 41 ST & ALTON RD 5:33 a.m. 11:18 p.m. MIA METRORAIL 5:45 a.m. 11:30 p.m.			~
### ST & INDIAN CREEK 5:20 a.m. 11:05 p.m. 41 ST & INDIAN CREEK 5:29 a.m. 11:14 p.m. 41 ST & ALTON RD 5:33 a.m. 11:18 p.m. MIA METRORAIL 5:45 a.m. 11:30 p.m.	***************************************	5:10 a.m.	10:55 p.m.
41 ST & ALTON RD 5:33 a.m. 11:18 p.m. MIA METRORAIL 5:45 a.m. 11:30 p.m.		5:20 a.m.	11:05 p.m.
MIA METRORAIL 5:45 a.m. 11:30 p.m.	41 ST & INDIAN CREEK	5:29 a.m.	11:14 p.m.
5·45 a m 11·30 n m	41 ST & ALTON RD	5:33 a.m.	11:18 p.m.
		5:45 a.m.	11:30 p.m.

SEVEN DAYS A WEEK

*LAST FOUR TRIPS 30 MINUTES APART/ULTIMOS CUATRO VIAJES 30 MINUTOS APARTE/DENYE KAT SOTI 30 MINIT APA

 $Frequencies \, are \, approximate \, and \, may \, vary \, depending \, on \, traffic \, and \, road \, conditions/$ Frecuencias son aproximadas, pues dependen del trafico y otras condiciones de las vias/Asosye yo apwoksimatif epi yo ka varye selon kondisyon sikilasyon sou wout yo





















Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic







150 (Eastbound) WEEKDAY

Airport Station	41 ST & ALTON RD MIAMI BEACH	INDIAN CREEK DR & 40 ST	WASHINGTON AVE & LINCOLN RD	WASHINGTON AVE & SOUTH POINTE DR
06:00AM	06:15AM	06:21AM	06:31AM	06:41AM
06:20AM	06:35AM	06:41AM	06:51AM	07:01AM
06:40AM	06:55AM	07:01AM	07:11AM	07:21AM
07:00AM	07:15AM	07:21AM	07:31AM	07:41AM
07:20AM	07:35AM	07:41AM	07:51AM	08:01AM
07:40AM	07:55AM	08:01AM	08:11AM	08:21AM
08:00AM	08:15AM	08:21AM	08:31AM	08:41AM
08:20AM	08:35AM	08:41AM	08:51AM	09:02AM
08:40AM	08:55AM	09:01AM	09:12AM	09:23AM
09:00AM	09:14AM	09:20AM	09:31AM	09:42AM
09:20AM	09:34AM	09:40AM	09:51AM	10:02AM
09:40AM	09:54AM	10:00AM	10:11AM	10:22AM
10:00AM	10:14AM	10:20AM	10:31AM	10:42AM
10:20AM	10:34AM	10:40AM	10:51AM	11:02AM
10:40AM	10:54AM	11:00AM	11:11AM	11:22AM
11:00AM	11:14AM	11:20AM	11:31AM	11:42AM
11:20AM	11:34AM	11:40AM	11:51AM	12:02PM
11:40AM	11:54AM	12:00PM	12:11PM	12:22PM
12:00PM	12:14PM	12:20PM	12:31PM	12:42PM
12:20PM	12:34PM	12:40PM	12:51PM	01:02PM

10/24/2017		Routes Scheo	lule - Miami-Dade County	
12:40PM	12:54PM	01:00PM	01:11PM	01:22PM
01:00PM	01:14PM	01:20PM	01:31PM	01:42PM
01:20PM	01:34PM	01:40PM	01:51PM	02:02PM
01:40PM	01:54PM	02:00PM	02:11PM	02:22PM
02:00PM	02:14PM	02:20PM	02:31PM	02:42PM
02:16PM	02:30PM	02:36PM	02:47PM	02:58PM
02:36PM	02:50PM	02:56PM	03:07PM	03:20PM
02:53PM	03:09PM	03:16PM	03:27PM	03:40PM
03:13PM	03:29PM	03:36PM	03:47PM	04:00PM
03:33PM	03:49PM	03:56PM	04:07PM	04:20PM
03:53PM	04:09PM	04:16PM	04:27PM	04:40PM
04:13PM	04:29PM	04:36PM	04:47PM	05:00PM
04:33PM	04:49PM	04:56PM	05:07PM	05:20PM
04:53PM	05:09PM	05:16PM	05:27PM	05:40PM
05:13PM	05:29PM	05:36PM	05:47PM	06:00PM
05:33PM	05:49PM	05:56PM	06:07PM	06:20PM
05:53PM	06:09PM	06:16PM	06:27PM	06:40PM
06:13PM	06:29PM	06:36PM	06:47PM	07:00PM
06:37PM	06:53PM	07:00PM	07:09PM	07:20PM
07:00PM	07:14PM	07:20PM	07:29PM	07:40PM
07:20PM	07:34PM	07:40PM	07:49PM	08:00PM
07:40PM	07:54PM	08:00PM	08:09PM	08:20PM
08:00PM	08:14PM	08:20PM	08:29PM	08:40PM
08:20PM	08:34PM	08:40PM	08:49PM	09:00PM
08:40PM	08:54PM	09:00PM	09:09PM	09:20PM
09:00PM	09:14PM	09:20PM	09:29PM	09:40PM
09:30PM	09:44PM	09:50PM	09:59PM	10:10PM
10:00PM	10:13PM	10:18PM	10:27PM	10:37PM
10:30PM	10:43PM	10:48PM	10:57PM	11:07PM
11:10PM	11:23PM	11:28PM	11:37PM	11:47PM
11:40PM	11:53PM	11:58PM	12:07AM	12:17AM

Back to previous page (javascript: history.go(-1))



Miami-Dade County Transportation and Public Works

Routes Schedule



(https://facebook.com/GoMiamiDade/



(https://twitter.com/gomiamidade)



(https://www.instagram.com/gomiamic







150 (Westbound) WEEKDAY

	,	,		
WASHINGTON AVE & SOUTH POINTE DR	Lincoln Rd & James Ave	INDIAN CREEK DR & 43 ST	41 ST & ALTON RD MIAMI BEACH	Airport Station
05:10AM	05:20AM	05:29AM	05:33AM	05:45AM
05:30AM	05:40AM	05:49AM	05:53AM	06:07AM
05:50AM	06:01AM	06:11AM	06:16AM	06:30AM
06:10AM	06:21AM	06:31AM	06:36AM	06:50AM
06:30AM	06:41AM	06:51AM	06:56AM	07:10AM
06:50AM	07:01AM	07:11AM	07:16AM	07:30AM
07:10AM	07:21AM	07:31AM	07:36AM	07:50AM
07:30AM	07:41AM	07:51AM	07:56AM	08:10AM
07:50AM	08:01AM	08:11AM	08:16AM	08:30AM
08:10AM	08:21AM	08:31AM	08:36AM	08:50AM
08:30AM	08:41AM	08:51AM	08:56AM	09:11AM
08:50AM	09:02AM	09:15AM	09:20AM	09:35AM
09:10AM	09:22AM	09:35AM	09:40AM	09:55AM
09:30AM	09:42AM	09:55AM	10:00AM	10:15AM
09:50AM	10:02AM	10:15AM	10:20AM	10:35AM
10:10AM	10:22AM	10:35AM	10:40AM	10:55AM
10:30AM	10:42AM	10:55AM	11:00AM	11:15AM
10:50AM	11:02AM	11:15AM	11:20AM	11:35AM
11:10AM	11:22AM	11:35AM	11:40AM	11:55AM
11:30AM	11:42AM	11:55AM	12:00PM	12:15PM

			,	
11:50AM	12:02PM	12:15PM	12:20PM	12:35PM
12:10PM	12:22PM	12:35PM	12:40PM	12:55PM
12:30PM	12:42PM	12:55PM	01:00PM	01:15PM
12:50PM	01:02PM	01:15PM	01:20PM	01:35PM
01:10PM	01:22PM	01:35PM	01:40PM	01:55PM
01:30PM	01:42PM	01:55PM	02:00PM	02:15PM
01:50PM	02:02PM	02:15PM	02:20PM	02:35PM
02:10PM	02:22PM	02:35PM	02:40PM	02:55PM
02:30PM	02:42PM	02:55PM	03:01PM	03:20PM
02:50PM	03:04PM	03:17PM	03:23PM	03:42PM
03:10PM	03:24PM	03:37PM	03:43PM	04:02PM
03:30PM	03:44PM	03:57PM	04:03PM	04:22PM
03:50PM	04:04PM	04:17PM	04:23PM	04:42PM
04:10PM	04:24PM	04:37PM	04:43PM	05:02PM
04:30PM	04:44PM	04:57PM	05:03PM	05:22PM
04:50PM	05:04PM	05:17PM	05:23PM	05:42PM
05:10PM	05:24PM	05:37PM	05:43PM	06:02PM
05:30PM	05:44PM	05:57PM	06:03PM	06:22PM
05:50PM	06:04PM	06:17PM	06:23PM	06:42PM
06:10PM	06:24PM	06:37PM	06:43PM	07:02PM
06:30PM	06:44PM	06:57PM	07:03PM	07:17PM
06:50PM	07:04PM	07:14PM	07:19PM	07:33PM
07:10PM	07:22PM	07:32PM	07:37PM	07:51PM
07:30PM	07:42PM	07:52PM	07:57PM	08:11PM
07:50PM	08:02PM	08:12PM	08:17PM	08:31PM
08:10PM	08:22PM	08:32PM	08:37PM	08:51PM
08:30PM	08:42PM	08:52PM	08:57PM	09:11PM
08:50PM	09:02PM	09:12PM	09:17PM	09:31PM
09:20PM	09:32PM	09:42PM	09:47PM	10:01PM
09:50PM	10:02PM	10:11PM	10:15PM	10:27PM
10:20PM	10:30PM	10:39PM	10:43PM	10:55PM
10:55PM	11:05PM	11:14PM	11:18PM	11:30PM

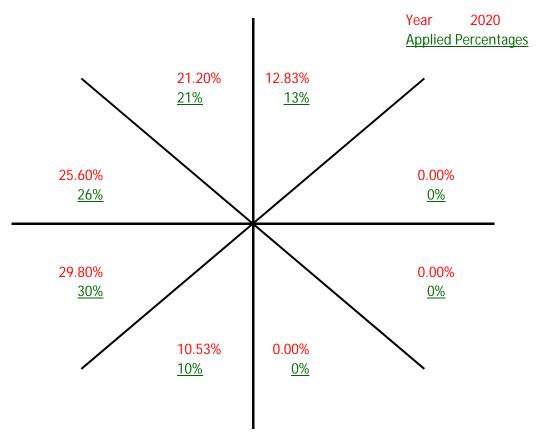
Back to previous page (javascript: history.go(-1))

Page Last Edited: Mon Jan 30, 2017 2:39:07 PM

Appendix G

Cardinal Trip Distribution

Cardinal Distribution for TAZ 644



Cardinal Trip Distribution

Cardinal Direction	Percentaç	ge of Trips	2020	2020
Calullal Direction	2010	2040	Interpolated	Rounded
North-Northeast	11.2%	16.10%	12.83%	13.00%
East-Northeast	0.0%	0.00%	0.00%	0.00%
East-Southeast	0.0%	0.00%	0.00%	0.00%
South-Southeast	0.0%	0.00%	0.00%	0.00%
South-Southwest	9.6%	12.40%	10.53%	10.00%
West-Southwest	29.7%	30.00%	29.80%	30.00%
West-Northwest	27.3%	22.20%	25.60%	26.00%
North-Northwest	22.1%	19.40%	21.20%	21.00%
Total	99.9%	100.1%	99.97%	100.00%





	٨	Miami-D	ade 20)10 Dir	ection	al Disti	ibutio	n Sumi	mary		
Orig	in TAZ				(Cardinal [Directions	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	

Directional Trip Distribution Report MIAMI-DADE LONG RANGE TRANSPORTATION PLAN UPDATE TO THE YEAR 2040



			٨	∕liami-	Dade :	2040 D	irectio	nal Di	stributi	on Sun	nmary
Orig	in TAZ				(Cardinal I	Direction	S			
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	
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	

Appendix H

Volume Development Worksheets

17th Street and Washington Avenue October 27, 2017 0.91

"PM EXISTIN	IG TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
PM Raw Turni	ng Movements		131	280	120		80	219	22		249	394	76		17	227	96
Peak Season Co	orrection Factor	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
PM EXISTING	CONDITIONS		143	305	131		87	239	24		271	429	83		19	247	105
	OUND TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
	shington						2					9	1			10	
	ention Center Hotel			66	16			63			21						
Miami Beach Co	nvention Center											65				98	
									-		-				-	-	
TOTAL "VEST	TED" TRAFFIC			66	16		2	63	 		21	74	1		 	108	
. STAL VEOL			1	- 50	.0					1							
	Buildout	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	owth Rate	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%
PM BACKGROUND	TRAFFIC GROWTH		2	5	2		1	4	0		24	38	7		2	22	9
BH HON BBO						1				1				1			
PM NON-PRO	JECT TRAFFIC		145	376	149		90	306	24		316	541	91		21	377	114
"AM DDO IECT	DICTRIBUTION																
	DISTRIBUTION"	EBU	EBL	FDT		WDII	WDI	WDT	WDD	NDU	NDI	NBT	NDD	CDII	SBL	CDT	CDD
LAND USE Pass-By	TYPE Entering	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBI	NBR	SBU	SBL	SBT	SBR
Distribution	Exiting																
Net New	Entering																
Distribution	Exiting												100.0%				
Diotribution	Latting								l	l	l	l	100.070		l	l	l
"PM PROJECT	DISTRIBUTION"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering							-20.0%			20.0%	-35.0%	35.0%		20.0%	-20.0%	
Distribution	Exiting										20.0%	35.0%	45.0%				
Net New	Entering			56.0%									10.0%		21.0%		
Distribution	Exiting										56.0%	21.0%	23.0%				
Valet	Entering																
Distribution	Exiting												100.0%				
11444 DD 0 15	OT TD 4 FF10#																
	CT TRAFFIC"	EBII	EDI	FDT		WDII	WDI	WDT	WDD	NDU	NDI	NDT	NDD	CDII	CDI	CDT	CDD
LAND USE Project	TYPE Pass - By	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Trips	Net New									-		-	24				
	DJECT TRAFFIC								-		-		24		-	-	
AM TOTAL THE	50201 11041110								<u> </u>		<u> </u>				<u> </u>	<u> </u>	L
AM TOTA	L TRAFFIC												24				
"DM DDO IE	CT TRAFFIC"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project	Pass - By	1			201	7723	*****	-4	115.	1400	2	-3	10	353	<u> </u>	-4	
Trips	Net New			20				-			11	4	8		7	- -	
	Trips			0					1	1			24			1	
	DJECT TRAFFIC			20				-4			13	1	42		11	-4	
PM TOTAL	L TRAFFIC		145	396	149		90	302	24		329	542	133		32	373	114
·																	

INTERSECTION: COUNT DATE: PM PEAK HOUR FACTOR:

17th Street and James Avenue October 27, 2017 0.96

"PM EXISTIN	IG TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
PM Raw Turni	ng Movements		55	257	43		23	214	21		40	25	27		10	47	71
Peak Season C	orrection Factor	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
DM EYISTING	CONDITIONS		60	280	47		25	233	23	1	44	27	29	1	11	51	77
FINI EXISTING	CONDITIONS		60	200	41		25	233	23		44	21	29	l .	11	51	11
"PM BACKGRO	OUND TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
1600 Wa	shington			1				2									
	ention Center Hotel			66				63									
Miami Beach Co	nvention Center																
TOTAL "VEST	TED" TRAFFIC			67				65									
1011/12 120			l	٠.	l	1	l	- 00		I		1	I	l .		I	11
	Buildout	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	owth Rate	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%
PM BACKGROUND	TRAFFIC GROWTH		1	4	1		0	4	0		4	2	3		1	4	7
PM NON-PRO	JECT TRAFFIC		61	351	48		25	302	23	1	48	29	32	l	12	55	84
T III NON T ITO	0201 110-1110			001		1		002		I			- 02	l		- 00	0.7
"AM PROJECT	DISTRIBUTION"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering																
Distribution	Exiting																
Net New	Entering																
Distribution	Exiting																
	DISTRIBUTION" TYPE	EBU	ED!	EBT	FBB	WBU	WBL	WBT	WBR	NDU	NBL	NDT	NDD	SBU	CDI	SBT	SBR
LAND USE Pass-By	Entering	EBU	EBL	-80.0%	EBR	WBU	WBL	WBI	WBR	NBU	NBL	NBT	NBR	980	SBL	361	SBK
Distribution	Exiting			25.0%	20.0%												
Net New	Entering			25.070	20.070			8.0%									5.0%
Distribution	Exiting		5.0%	8.0%	10.0%			0.070									0.070
Valet	Entering																
Distribution	Exiting																
		•		•	•	•	•	•	•		•	•		•	•		
	CT TRAFFIC"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project	Pass - By																
Trips	Net New DJECT TRAFFIC																
AWITOTALFIN	DOLOT TRAITIC		l .		l .		l .							l .			
AM TOTA	L TRAFFIC																
	CT TRAFFIC"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project	Pass - By			-12	2		ļ	_						ļ			
Trips	Net New		1	2	2		ļ	3		1			1	ļ		1	2
	Trips DJECT TRAFFIC		1	-10	4			3									2
FINI TOTAL PRO	JULUI IRAFFIU			-10	4	ı	l	_ 3	ı	1	ı	ı	1	l	ı	1	
PM TOTA	L TRAFFIC		62	341	52		25	305	23		48	29	32		12	55	86
				·		·		L	·		·	L			·		

17th Street and SR A1A/Collins Avenue October 27, 2017 0.92

"PM EXISTIN		EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
PM Raw Turnir			120	41	132		25	46	39		104	587	27		13	596	105
Peak Season Co	orrection Factor	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
PM EXISTING	CONDITIONS		131	45	144		27	50	43		113	640	29		14	650	114
"PM BACKGRO		EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
1600 Was					1						1						1
Miami Beach Conve Miami Beach Co			32		34						31						32
Wilaini Beach Co	invention Center																
TOTAL "VEST	ED" TRAFFIC		32		35						32						33
Years To	Ruildout	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Yearly Gro		0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%
PM BACKGROUND		0.070	2	1	2	0.070	0.576	1	1	2.370	10	56	3	2.070	1	57	10
								•		l		- 00		l		0.	
PM NON-PROJ	IECT TRAFFIC		165	46	181		27	51	44		155	696	32		15	707	157
•																	
"AM PROJECT I																	
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering																
Distribution Net New	Exiting																
Distribution	Entering Exiting																
Distribution	LAIting			l						l		l		l	l	l	
"PM PROJECT I	DISTRIBUTION"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering		-33.0%	-11.0%	-36.0%												
Distribution	Exiting		11.0%	3.0%	11.0%												
Net New	Entering																8.0%
Distribution	Exiting		8.0%														
Valet	Entering																
Distribution	Exiting																
#444 BBC :=4	OT TO A CCIO!																
"AM PROJEC		EBI	EDI	EDT	EDD	WELL	WDI	WDT	WPP	NDU	NDI	NDT	NDD	CDII	CDI	CDT	CDD
LAND USE Project	TYPE Pass - By	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Trips	Net New			-						-		-		-	-	-	
AM TOTAL PRO																	\vdash
AM TOTAL THE	JOEOT HUATTIO			l						l		l		l	l	l	
AM TOTAL	_ TRAFFIC																
<u> </u>																	
"PM PROJEC																	
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project	Pass - By		-5	-2	-5					ļ		ļ		ļ	ļ	ļ	
Trips	Net New		2							-		-			-	-	3
Valet PM TOTAL PRO			-3	-2	-5												3
PWI TOTAL PRO	JECI IKAFFIC		-3	-2	-5					l		l		l	l	l	3
PM TOTAL	TRAFFIC		162	44	176		27	51	44		155	696	32		15	707	160

INTERSECTION:

Lincoln Road and Washington Avenue

COUNT DATE:

PM TOTAL TRAFFIC

October 27, 2017

PM PEAK HOUR FACTOR: 0.9

"PM EXISTING TRAFFIC" WBL WBU WBR SBT **EBU EBL EBT EBR** WBT NBU NBL NBT NBR SBU SBL SBR PM Raw Turning Movements 6 122 83 620 127 55 471 **Peak Season Correction Factor** 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 PM EXISTING CONDITIONS 133 90 676 138 60 513 7 "PM BACKGROUND TRAFFIC" FBU **FBI EBT FBR** WBU WBL WBT WBR NBU NBI NBT SBU SBL SBT SBR NBR 1600 Washington 10 12 Miami Beach Convention Center Hotel 21 16 Miami Beach Convention Center 65 98 TOTAL "VESTED" TRAFFIC 96 126 Years To Buildout 3 3 3 3 3 3 3 3 Yearly Growth Rate 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 2.9% 2.9% 2.9% 2.9% 2.9% 2.9% 2.9% 2.9% PM BACKGROUND TRAFFIC GROWTH 59 12 45 0 5 PM NON-PROJECT TRAFFIC 135 7 91 831 150 65 "AM PROJECT DISTRIBUTION" LAND USE **TYPE** EBU **EBL** EBT **EBR** WBU WBL WBT WBR NBU NBL NBT NBR SBU SBL SBT SBR Entering Pass-By Distribution Exiting Net New Entering Distribution Exiting "PM PROJECT DISTRIBUTION" LAND USE TYPE EBU **EBL** EBT EBR WBU WBL WBT WBR NBU NBL NBT NBR SBU SBL SBT SBR Pass-By Entering -20.0% Distribution Exiting 20.0% Net New Entering 10.0% Distribution Exiting 10.0% Valet Entering Distribution Exiting "AM PROJECT TRAFFIC" WBT WBR NBU LAND USE TYPE **EBU EBL** EBT **EBR** WBU WBL NBL NBT NBR SBU SBL SBT SBR Project Pass - By **Net New** AM TOTAL PROJECT TRAFFIC AM TOTAL TRAFFIC "PM PROJECT TRAFFIC" LAND USE TYPE EBU **EBL** EBT **EBR** WBU WBL WBT WBR NBU NBL NBT NBR SBU SBL SBT SBR Project Pass - By Trips **Net New** 2 Valet Trips PM TOTAL PROJECT TRAFFIC 4

139

91

835 150

65

680

Lincoln Road and James Avenue October 27, 2017 0.91

"PM EXISTING	G TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
PM Raw Turning	g Movements	6	42	135		19	0	152	45						44		61
Peak Season Cor	rrection Factor	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
DM EVICTING	CONDITIONS											1	1	1		1	
PM EXISTING (CONDITIONS	7	46	147		21	0	166	49						48		66
"PM BACKGROU	IND TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
1600 Wasi		LDU	LDL	LDI	LDI	WBU	WDL	WDI	VVDIX	NDO	NDL	INDI	NDIX	350	JDL	1	JUIN
Miami Beach Conve																	
Miami Beach Con																	
TOTAL "VESTE	ED" TRAFFIC																
Vacua Ta I	D.::Ida.id				_		_										
Years To E Yearly Gro		3 0.5%	3 0.5%	3 0.5%	3 0.5%	3 0.5%	3 0.5%	3 0.5%	3 0.5%	3 2.9%							
PM BACKGROUND 1					0.5%					2.9%	2.9%	2.9%	2.9%	2.9%		2.9%	
PIWI BACKGROUND I	IKAFFIC GROWIN	0.0	1	2		0	0	3	1	<u> </u>	<u> </u>				4		6
PM NON-PROJE	ECT TRAFFIC	7	47	149		21	0	169	50						52		72
			1									1		1		1	
"AM PROJECT D	ISTRIBUTION"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering																
Distribution	Exiting																
Net New	Entering																
Distribution	Exiting																
"PM PROJECT D																	
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering																00.00/
Distribution Net New	Exiting																20.0%
Distribution	Entering Exiting																10.0%
Valet	Entering																10.076
Distribution	Exiting																
2.04.104.101.								l	l	l	l		1				
"AM PROJEC	T TRAFFIC"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project	Pass - By																
Trips	Net New																
AM TOTAL PRO	JECT TRAFFIC																
*******	TDAFFIC																
AM TOTAL	IKAFFIC							<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>				
"PM PROJEC"	T TDAEEIC"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project Project	Pass - By	EBU	EDL	<u> </u>	FDK	VVDU	WDL	WDI	VVDR	NDU	INDL	INDI	NOR	300	JDL	301	2 2
Trips	Net New		-	-								-	1	-	-	-	2
Valet T								-	-	-	-		1				
									<u> </u>	 	1		 				4
	JECT TRAFFIC																
FWIOTALFRO	JECT TRAFFIC										l						
PM TOTAL		7	47	149		21	0	169	50						52		76

17th Street and Project Driveway October 27, 2017 0.92

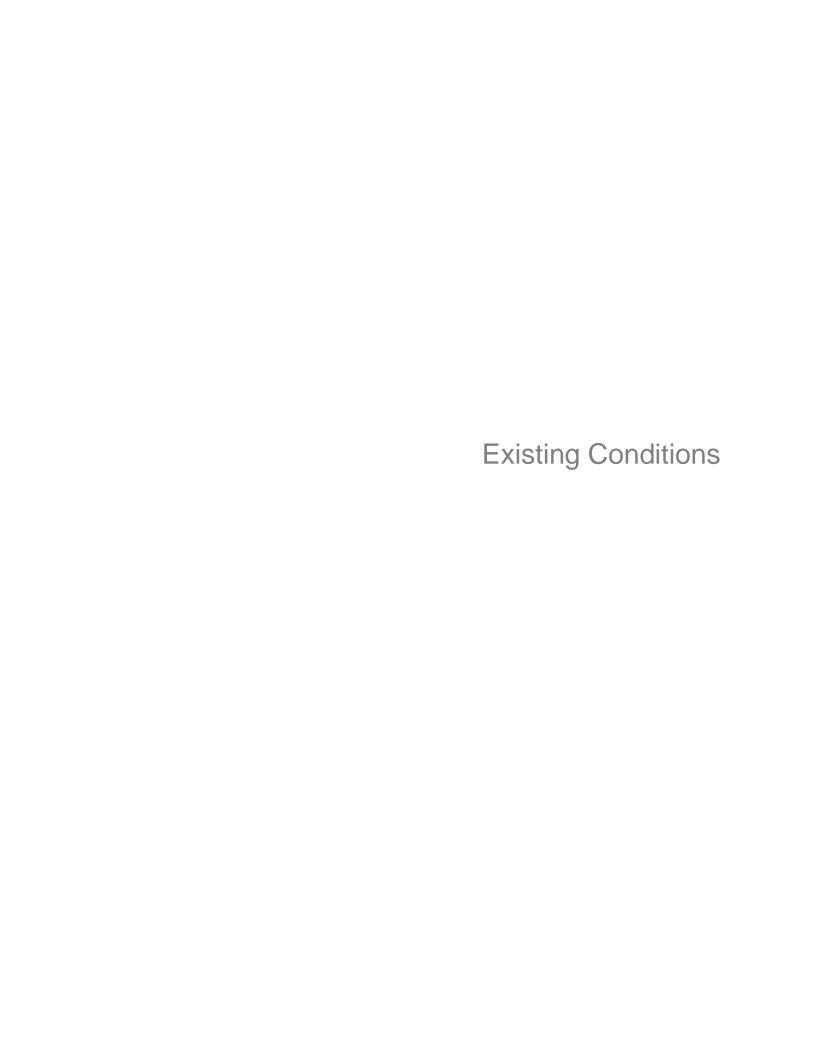
"PM EXISTIN	IG TRAFFIC"	EBU	EBL	ЕВТ	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
PM Raw Turnii				364				323				<u></u>	1		T	T .	
	orrection Factor	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
PM EXISTING	CONDITIONS			397				352									
"DM BACKGPO	UND TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
1600 Was		LDU	LDL	1	LDIN	WBO	WDL	2	VVDIX	NDO	NDL	INDI	INDIX	350	JDL	351	JOIN
Miami Beach Conv				66				63									
	nvention Center																
				ļ													
TOTAL "VEST	ED" TRAFFIC			67				65									
				<u> </u>													
	Buildout	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	owth Rate	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%
PM BACKGROUND	TRAFFIC GROWTH		l	6	l			5	l			l		l	l	l	
PM NON-PRO.	JECT TRAFFIC		1	470	1			422	1			1		1	1	1	
	201 110 1110		I		I				I			I	1	I	I	I	<u> </u>
"AM PROJECT	DISTRIBUTION"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering																
Distribution	Exiting																
Net New	Entering																
Distribution	Exiting		ļ .		100.0%			ļ.	ļ.			ļ .		ļ .	ļ.	ļ.	
"PM PROJECT	NISTRIBILITION"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering			-80.0%	80.0%		20.0%	-20.0%	1			1					
Distribution	Exiting			45.0%													
Net New	Entering				87.0%		13.0%										
Distribution	Exiting			23.0%													
Valet	Entering																
Distribution	Exiting				100.0%												
"AM DDO IE	CT TRAFFIC"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project	Pass - By	<u></u>			<u></u>			T				T		<u> </u>	T	<u> </u>	T 1
Trips	Net New	1		1	24								1				
AM TOTAL PRO	JECT TRAFFIC				24												
AM TOTAL	TDAFFIC																
AW TOTAL	L TRAFFIC		l	l	24			l	l			l		l	l	l	
"PM PROJEC	CT TRAFFIC"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project	Pass - By			-10	14		4	-4				I		1		1	
Trips	Net New			4	56		14										
Valet					24												
PM TOTAL PRO	JECT TRAFFIC			-6	94		18	-4									
DM TOTAL	TRAFFIC		1	464	94		18	418	1			1		1	1	1	
FIWI TOTAL	- INAFFIO		l	404	94		10	410	l			l	1	l	l	l	

Washington Avenue and Project Driveway October 27, 2017 0.92

"PM EXISTIN	IG TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
PM Raw Turni	ng Movements		1									711				477	
Peak Season C	orrection Factor	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
PM EXISTING	CONDITIONS											775				520	
"PM BACKGRO	UND TRAFFIC"	EBU	EBL	ЕВТ	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
	shington			1						1	1	10				12	
	ention Center Hotel											21				16	
Miami Beach Co	nvention Center											65				98	
							<u> </u>										
TOTAL "VEST	TED" TRAFFIC											96				126	
Years To	Buildout	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	owth Rate	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%
	TRAFFIC GROWTH	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	2.070	2.070	68	2.070	2.070	2.070	46	2.070
27101101100112				l						l		- 00					
PM NON-PRO-	JECT TRAFFIC											939				692	
•																	
	DISTRIBUTION"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering																
Distribution	Exiting																
Net New	Entering					igwdown	<u> </u>										
Distribution	Exiting								100.0%								
"DM DDO IECT	DISTRIBUTION"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Pass-By	Entering	LDU		<u> </u>	LDIX	1100	· · · ·	***	WER	I	I	1	INDIX	ODO	ODL	-20.0%	T DER
Distribution	Exiting		 			 			100.0%							-20.070	
Net New	Entering		 						100.070			10.0%					
Distribution	Exiting								100.0%								
Valet	Entering																
Distribution	Exiting								100.0%								
	CT TRAFFIC"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project	Pass - By	<u> </u>					<u> </u>										
Trips	Net New	—	<u> </u>	ļ			<u> </u>		24	ļ		ļ				ļ	
AM TOTAL PRO	DJECT TRAFFIC			<u> </u>					24	<u> </u>		<u> </u>				<u> </u>	
AM TOTA	L TRAFFIC						<u> </u>		24								
	CT TRAFFIC"																
LAND USE	TYPE	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Project	Pass - By						ļ		8							-4	
Trips	Net New						ļ		55			4					
	Trips	—	<u> </u>	ļ			<u> </u>		24	ļ						ļ	
PM TOTAL PRO	DJECT TRAFFIC			<u> </u>					87	<u> </u>		4				-4	
PM TOTA	L TRAFFIC			1					87	1		943				688	1
FWITTIA		at the second		1						1							i l
				l .		l				1						1	

Appendix I

Intersection Capacity Analysis Worksheets



1: Washington Avenue & 17th Street

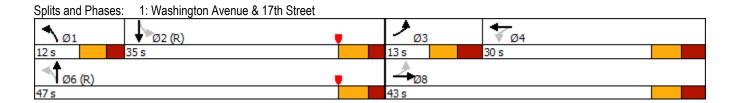
	۶	→	•	•	4	†	-	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	ሻ	∱ ∱	*	∱ ∱	7	∱ ∱	7	∱ ∱
Traffic Volume (vph)	143	305	87	239	271	429	19	247
Future Volume (vph)	143	305	87	239	271	429	19	247
Turn Type	pm+pt	NA	Perm	NA	pm+pt	NA	Perm	NA
Protected Phases	3	8		4	1	6		2
Permitted Phases	8		4		6		2	
Detector Phase	3	8	4	4	1	6	2	2
Switch Phase								
Minimum Initial (s)	5.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.1	30.4	30.0	30.0	11.0	27.3	27.3	27.3
Total Split (s)	13.0	43.0	30.0	30.0	12.0	47.0	35.0	35.0
Total Split (%)	14.4%	47.8%	33.3%	33.3%	13.3%	52.2%	38.9%	38.9%
Yellow Time (s)	3.7	4.0	4.0	4.0	3.7	4.0	4.0	4.0
All-Red Time (s)	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.1	7.4	7.4	7.4	6.0	6.3	6.3	6.3
Lead/Lag	Lead		Lag	Lag	Lead		Lag	Lag
Lead-Lag Optimize?	Yes		Yes	Yes	Yes		Yes	Yes
Recall Mode	None	None	None	None	None	C-Min	C-Min	C-Min
Intersection Summary								

Cycle Length: 90
Actuated Cycle Length: 90

Offset: 73 (81%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 85

Control Type: Actuated-Coordinated



	•	→	•	•	←	•	•	†	~	/		
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	∱ ⊅		ሻ	∱β		7	∱ ⊅		7	∱ ∱	
Traffic Volume (veh/h)	143	305	131	87	239	24	271	429	83	19	247	105
Future Volume (veh/h)	143	305	131	87	239	24	271	429	83	19	247	105
Number	3	8	18	7	4	14	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.93		0.89	0.92		0.84	0.98		0.94	0.97		0.92
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1676	1676	1710	1676	1676	1710	1676	1676	1710	1676	1676	1710
Adj Flow Rate, veh/h	157	335	144	96	263	26	298	471	91	21	271	115
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	338	825	343	267	709	69	391	1143	219	319	695	284
Arrive On Green	0.07	0.39	0.39	0.25	0.25	0.25	0.09	0.61	0.61	0.43	0.43	0.43
Sat Flow, veh/h	1597	2108	876	758	2876	279	1597	2503	479	739	2150	877
Grp Volume(v), veh/h	157	250	229	96	143	146	298	298	264	21	198	188
Grp Sat Flow(s),veh/h/ln	1597	1593	1392	758	1593	1563	1597	1593	1390	739	1593	1435
Q Serve(g_s), s	5.9	10.2	10.8	9.8	6.7	7.0	6.0	8.8	9.0	1.5	7.6	8.1
Cycle Q Clear(g_c), s	5.9	10.2	10.8	9.8	6.7	7.0	6.0	8.8	9.0	1.5	7.6	8.1
Prop In Lane	1.00		0.63	1.00		0.18	1.00		0.34	1.00		0.61
Lane Grp Cap(c), veh/h	338	623	544	267	393	385	391	727	635	319	515	464
V/C Ratio(X)	0.46	0.40	0.42	0.36	0.37	0.38	0.76	0.41	0.42	0.07	0.38	0.41
Avail Cap(c_a), veh/h	338	630	551	270	400	392	391	727	635	319	515	464
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.79	0.79	0.79	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.4	19.8	20.0	29.2	28.1	28.2	25.4	11.3	11.4	17.8	19.5	19.7
Incr Delay (d2), s/veh	0.4	0.3	0.4	0.6	0.4	0.5	6.2	1.3	1.6	0.4	2.2	2.6
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/ln	2.8	4.5	4.2	2.1	3.0	3.0	5.2	4.1	3.7	0.3	3.6	3.5
LnGrp Delay(d),s/veh	23.7	20.1	20.4	29.9	28.5	28.6	31.7	12.7	12.9	18.2	21.7	22.3
LnGrp LOS	С	С	С	С	C	С	С	В	В	В	C	<u>C</u>
Approach Vol, veh/h		636			385			860			407	
Approach Delay, s/veh		21.1			28.9			19.3			21.8	
Approach LOS		С			С			В			С	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	3	4		6		8				
Phs Duration (G+Y+Rc), s	12.0	35.4	13.0	29.6		47.4		42.6				
Change Period (Y+Rc), s	6.0	* 6.3	* 7.1	7.4		* 6.3		7.4				
Max Green Setting (Gmax), s	6.0	* 29	* 5.9	22.6		* 41		35.6				
Max Q Clear Time (g_c+I1), s	8.0	10.1	7.9	11.8		11.0		12.8				
Green Ext Time (p_c), s	0.0	0.9	0.0	1.5		1.2		2.5				
Intersection Summary												
HCM 2010 Ctrl Delay			21.9									
HCM 2010 LOS			C									
Notes												
NOTES												

	•	→	•	←	4	†	\	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	*	∱ ∱	7	∱ î≽		4		4
Traffic Volume (vph)	60	280	25	233	44	27	11	51
Future Volume (vph)	60	280	25	233	44	27	11	51
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		6		2		4		8
Permitted Phases	6		2		4		8	
Detector Phase	6	6	2	2	4	4	8	8
Switch Phase								
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Minimum Split (s)	33.0	33.0	33.0	33.0	31.3	31.3	31.3	31.3
Total Split (s)	58.0	58.0	58.0	58.0	32.0	32.0	32.0	32.0
Total Split (%)	64.4%	64.4%	64.4%	64.4%	35.6%	35.6%	35.6%	35.6%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0		0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0		4.3		4.3
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	C-Min	C-Min	C-Min	C-Min	None	None	None	None
Intersection Summary								

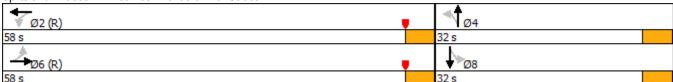
Cycle Length: 90
Actuated Cycle Length: 90

Offset: 46 (51%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow

Natural Cycle: 65

Control Type: Actuated-Coordinated

Splits and Phases: 2: James Avenue & 17th Street



	۶	→	•	√	←	•	1	†	<i>></i>	/	+	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	ħβ		7	ħβ			4			4	
Traffic Volume (veh/h)	60	280	47	25	233	23	44	27	29	11	51	77
Future Volume (veh/h)	60	280	47	25	233	23	44	27	29	11	51	77
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.95		0.89	0.95		0.90	0.95		0.85	0.90		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln	1676	1676	1710	1676	1676	1710	1710	1676	1710	1710	1676	1710
Adj Flow Rate, veh/h	62	292	49	26	243	24	46	28	30	11	53	80
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	670	1721	283	631	1761	171	177	100	89	53	142	190
Arrive On Green	0.85	0.85	0.85	0.85	0.85	0.85	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	944	2688	442	888	2751	267	446	373	332	38	530	711
Grp Volume(v), veh/h	62	170	171	26	139	128	104	0	0	144	0	0
Grp Sat Flow(s),veh/h/ln	944	1593	1537	888	1593	1425	1151	0	0	1280	0	0
Q Serve(g_s), s	1.1	1.7	1.7	0.5	1.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	2.5	1.7	1.7	2.2	1.3	1.4	6.0	0.0	0.0	8.2	0.0	0.0
Prop In Lane	1.00		0.29	1.00		0.19	0.44		0.29	0.08		0.56
Lane Grp Cap(c), veh/h	670	1020	984	631	1020	913	365	0	0	385	0	0
V/C Ratio(X)	0.09	0.17	0.17	0.04	0.14	0.14	0.28	0.00	0.00	0.37	0.00	0.00
Avail Cap(c_a), veh/h	670	1020	984	631	1020	913	410	0	0	436	0	0
HCM Platoon Ratio	1.33	1.33	1.33	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.92	0.92	0.92	0.97	0.97	0.97	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	2.7	2.5	2.5	2.7	2.5	2.5	26.3	0.0	0.0	27.2	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.3	0.4	0.1	0.3	0.3	0.3	0.0	0.0	0.4	0.0	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/ln	0.3	0.8	0.8	0.1	0.6	0.6	2.1	0.0	0.0	3.0	0.0	0.0
LnGrp Delay(d),s/veh	3.0	2.8	2.9	2.8	2.8	2.8	26.6 C	0.0	0.0	27.6	0.0	0.0
LnGrp LOS	A	A 400	A	A	A	A	<u> </u>	101		С	444	
Approach Vol, veh/h		403 2.9			293 2.8			104 26.6			144	
Approach LOS											27.6	
Approach LOS		Α			Α			С			С	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.6		28.4		61.6		28.4				
Change Period (Y+Rc), s		4.0		* 4.3		4.0		* 4.3				
Max Green Setting (Gmax), s		54.0		* 28		54.0		* 28				
Max Q Clear Time (g_c+I1), s		4.2		8.0		4.5		10.2				
Green Ext Time (p_c), s		0.6		0.4		0.8		0.6				
Intersection Summary												
HCM 2010 Ctrl Delay			9.2									
HCM 2010 LOS			Α									
Notes												

	•	→	•	←	4	†	>	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	ሻ	₽		€1₽		414		€1₽
Traffic Volume (vph)	131	45	27	50	113	640	14	650
Future Volume (vph)	131	45	27	50	113	640	14	650
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Minimum Split (s)	30.2	30.2	30.2	30.2	32.0	32.0	32.0	32.0
Total Split (s)	30.2	30.2	30.2	30.2	79.8	79.8	79.8	79.8
Total Split (%)	27.5%	27.5%	27.5%	27.5%	72.5%	72.5%	72.5%	72.5%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.2	2.2	2.2	2.2	3.0	3.0	3.0	3.0
Lost Time Adjust (s)	0.0	0.0		0.0		0.0		0.0
Total Lost Time (s)	6.2	6.2		6.2		7.0		7.0
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min	C-Min
Intersection Summary								

Cycle Length: 110

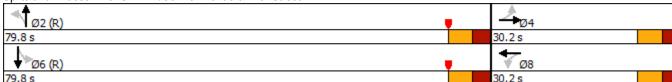
Actuated Cycle Length: 110

Offset: 101 (92%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 75

Control Type: Actuated-Coordinated

Splits and Phases: 3: SR A1A/Collins Avenue & 17th Street



	ᄼ	→	•	•	←	•	•	†	/	/		4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	₽			€î₽			सीके			सीके	
Traffic Volume (veh/h)	131	45	144	27	50	43	113	640	29	14	650	114
Future Volume (veh/h)	131	45	144	27	50	43	113	640	29	14	650	114
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.83		0.75	0.89		0.75	0.97		0.78	0.95		0.87
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.92	1.00	1.00	0.92
Adj Sat Flow, veh/h/ln	1676	1676	1710	1710	1676	1710	1710	1676	1710	1710	1676	1710
Adj Flow Rate, veh/h	142	49	157	29	54	47	123	696	32	15	707	124
Adj No. of Lanes	1	1	0	0	2	0	0	2	0	0	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	218	61	195	87	150	146	246	1325	61	48	1620	280
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22	0.88	0.88	0.88	0.88	0.88	0.88
Sat Flow, veh/h	957	279	895	161	689	668	306	2001	92	21	2448	424
Grp Volume(v), veh/h	142	0	206	49	0	81	381	0	470	480	0	366
Grp Sat Flow(s),veh/h/ln	957	0	1175	371	0	1147	1044	0	1356	1641	0	1252
Q Serve(g_s), s	16.1	0.0	18.3	2.5	0.0	6.5	2.2	0.0	8.5	0.0	0.0	6.3
Cycle Q Clear(g_c), s	22.6	0.0	18.3	20.8	0.0	6.5	8.5	0.0	8.5	6.1	0.0	6.3
Prop In Lane	1.00	•	0.76	0.59	•	0.58	0.32	•	0.07	0.03	•	0.34
Lane Grp Cap(c), veh/h	218	0	256	133	0	250	734	0	897	1120	0	828
V/C Ratio(X)	0.65	0.00	0.80	0.37	0.00	0.32	0.52	0.00	0.52	0.43	0.00	0.44
Avail Cap(c_a), veh/h	218	0	256	133	0	250	734	0	897	1120	0	828
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	45.7	0.0	40.8	42.5	0.0	36.2	2.5	0.0	2.7	2.6	0.0	2.6
Incr Delay (d2), s/veh	6.2	0.0	16.2	1.3	0.0	0.5	2.6	0.0	2.2	1.2	0.0	1.7
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/ln	4.6	0.0	7.1	1.5	0.0 0.0	2.1	2.5 5.2	0.0 0.0	3.4	3.0	0.0 0.0	2.4 4.3
LnGrp Delay(d),s/veh	51.9 D	0.0	57.0 E	43.8 D	0.0	36.7 D		0.0	4.9	3.8	0.0	
LnGrp LOS	D D	240		U D	120	<u> </u>	Α	051	A	A	046	<u>A</u>
Approach Vol, veh/h		348 54.9			130			851 5.0			846 4.0	
Approach Delay, s/veh					39.4 D							
Approach LOS		D			D			Α			Α	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		79.8		30.2		79.8		30.2				
Change Period (Y+Rc), s		7.0		* 6.2		7.0		* 6.2				
Max Green Setting (Gmax), s		72.8		* 24		72.8		* 24				
Max Q Clear Time (g_c+I1), s		10.5		24.6		8.3		22.8				
Green Ext Time (p_c), s		2.7		0.0		2.1		0.1				
Intersection Summary												
HCM 2010 Ctrl Delay			14.7									
HCM 2010 LOS			В									
Notes												
			В									

4: Washington Avenue & Lincoln Road

	•	•	†	\	ļ	
Lane Group	WBL	WBR	NBT	SBL	SBT	Ø3
Lane Configurations	Ä	7	∱ }	ሻ	^	
Traffic Volume (vph)	133	90	676	60	513	
Future Volume (vph)	133	90	676	60	513	
Turn Type	Prot	Perm	NA	pm+pt	NA	
Protected Phases	4		2	1	6	3
Permitted Phases		4		6		
Detector Phase	4	4	2	1	6	
Switch Phase						
Minimum Initial (s)	7.0	7.0	14.0	5.0	14.0	1.0
Minimum Split (s)	12.0	12.0	19.0	8.0	19.0	27.0
Total Split (s)	23.0	23.0	51.0	9.0	60.0	27.0
Total Split (%)	20.9%	20.9%	46.4%	8.2%	54.5%	25%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.0	2.0
All-Red Time (s)	1.0	1.0	1.0	0.0	1.0	0.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0	5.0	3.0	5.0	
Lead/Lag	Lag	Lag	Lag	Lead		Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes		Yes
Recall Mode	None	None	C-Min	None	C-Min	None
Intersection Summary						

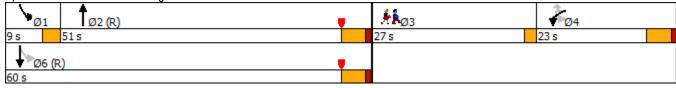
Cycle Length: 110
Actuated Cycle Length: 110

Offset: 48 (44%), Referenced to phase 2:NBT and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Splits and Phases: 4: Washington Avenue & Lincoln Road



	F	•	•	†	~	\	ļ		
Movement	WBU	WBL	WBR	NBT	NBR	SBL	SBT		
Lane Configurations		Ä	7	↑ ⊅		ሻ	^		
Traffic Volume (vph)	7	133	90	676	138	60	513		
Future Volume (vph)	7	133	90	676	138	60	513		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900		
Total Lost time (s)		5.0	5.0	5.0		3.0	5.0		
Lane Util. Factor		1.00	1.00	0.95		1.00	0.95		
Frpb, ped/bikes		1.00	0.62	0.97		1.00	1.00		
Flpb, ped/bikes		0.53	1.00	1.00		0.99	1.00		
Frt		1.00	0.85	0.97		1.00	1.00		
Flt Protected		0.95	1.00	1.00		0.95	1.00		
Satd. Flow (prot)		836	880	3014		1583	3185		
Flt Permitted		0.95	1.00	1.00		0.21	1.00		
Satd. Flow (perm)		836	880	3014		354	3185		
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90		
Adj. Flow (vph)	8	148	100	751	153	67	570		
RTOR Reduction (vph)	0	0	65	14	0	0	0		
Lane Group Flow (vph)	0	156	35	890	0	67	570		
Confl. Peds. (#/hr)	260	1124	807		260	260			
Confl. Bikes (#/hr)			5		9				
Parking (#/hr)					0				
Turn Type	Perm	Prot	Perm	NA		pm+pt	NA		
Protected Phases		4		2		1	6		
Permitted Phases	4		4			6			
Actuated Green, G (s)		38.9	38.9	53.3		61.1	61.1		
Effective Green, g (s)		38.9	38.9	53.3		61.1	61.1		
Actuated g/C Ratio		0.35	0.35	0.48		0.56	0.56		
Clearance Time (s)		5.0	5.0	5.0		3.0	5.0		
Vehicle Extension (s)		1.0	1.0	1.0		1.0	1.0		
Lane Grp Cap (vph)		295	311	1460		250	1769		
v/s Ratio Prot				c0.30		0.01	c0.18		
v/s Ratio Perm		0.19	0.04			0.14			
v/c Ratio		0.53	0.11	0.61		0.27	0.32		
Uniform Delay, d1		28.3	23.9	20.7		13.1	13.2		
Progression Factor		1.00	1.00	1.00		1.00	1.00		
Incremental Delay, d2		0.8	0.1	1.9		0.2	0.5		
Delay (s)		29.1	24.0	22.6		13.3	13.7		
Level of Service		С	С	С		В	В		
Approach Delay (s)		27.1		22.6			13.7		
Approach LOS		С		С			В		
Intersection Summary									
HCM 2000 Control Delay			20.1	Н	CM 2000	Level of S	Service	С	
HCM 2000 Volume to Capac	ity ratio		0.58				-		
Actuated Cycle Length (s)			110.0	Sı	um of los	t time (s)		15.0	
Intersection Capacity Utilizat	ion		53.1%			of Service)	A	
Analysis Period (min)			15	_					
c Critical Lane Group									

ntersection									
nt Delay, s/veh	517.3								
ovement	EBU	EBL	EBT	WBU	WBT	WBR	SBL	SBR	
ne Configurations			41₽		414		, A		
ffic Vol, veh/h	7	46	147	21	166	49	48	66	
re Vol, veh/h	7	46	147	21	166	49	48	66	
flicting Peds, #/hr	255	779	0	204	0	779	204	255	
Control	Free	Free	Free	Free	Free	Free	Stop	Stop	
Channelized	_	_	None	-	_	None	'-	None	
age Length	-	-	-	-	-	_	0	_	
in Median Storage	,# -	-	0	-	0	_	0	_	
le, %	_	_	0	-	0	_	0	_	
Hour Factor	91	91	91	91	91	91	91	91	
y Vehicles, %	2	2	2	2	2	2	2	2	
t Flow	8	51	162	23	182	54	53	73	
r/Minor	Major1		ı	Major2		N	Minor2		
flicting Flow All	236	1015	0	162	_	0	1437	1152	
Stage 1	_00		-		_	-	1034		
Stage 2	_	_	_	_	_	_	403	_	
al Hdwy	6.44	4.14	_	6.44	_	_	5	5	
al Hdwy Stg 1	0.77		_	-	_	_	5.84	-	
al Hdwy Stg 2	_	_	_	_	_	_	5.84	_	
v-up Hdwy	2.52	2.22	_	2.52	_	_	3	3	
ap-1 Maneuver	1016	679	_	1131	_	_	280	377	
Stage 1	-	-	_	-	_	_	335	-	
Stage 2	_	_	_		_	_	735	_	
on blocked, %	-	-	-	-	-	_	100	-	
Cap-1 Maneuver	162	162	-	1131	-	_	~ 11	74	
Cap-1 Maneuver	102	102	-	1101	-	_	~ 11	-	
Stage 1	-	-	-	-	-	_	~ 51	_	
Stage 2	-	-	-	-	-	-	190	_	
Jiago Z	-	-	-	-	-	-	130	_	
roach	EB			WB			SB		
M Control Delay, s	17.3			0.8		\$ 2	2463.8		
M LOS							F		
or Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBI n1			
acity (veh/h)	IL	162	LDI	VVDI	VVDIV.	22			
Lane V/C Ratio		0.312	-	-	-	5.694			
Control Delay (s)		39.1	9.4	0.1		2463.8			
Control Delay (s) Lane LOS		39.1 E		0.1 A	Ψ.4				
	١	1.2	Α	А	-	F 15.9			
95th %tile Q(veh))	1.2	-	-	-	13.9			
ume exceeds cap	oacity	\$: De	lay exc	eeds 30	00s	+: Comr	outation	Not De	efined *: All major volume in platoon
• • •	,		•			'			,



1: Washington Avenue & 17th Street

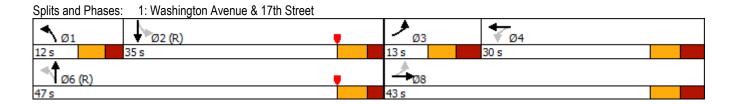
	۶	-	•	←	4	†	>	↓
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	7	∱ }	7	∱ î≽	7	∱ ∱	7	ħβ
Traffic Volume (vph)	145	376	90	306	316	541	21	377
Future Volume (vph)	145	376	90	306	316	541	21	377
Turn Type	pm+pt	NA	Perm	NA	pm+pt	NA	Perm	NA
Protected Phases	. 3	8		4	· · · 1	6		2
Permitted Phases	8		4		6		2	
Detector Phase	3	8	4	4	1	6	2	2
Switch Phase								
Minimum Initial (s)	5.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.1	30.4	30.0	30.0	11.0	27.3	27.3	27.3
Total Split (s)	13.0	43.0	30.0	30.0	12.0	47.0	35.0	35.0
Total Split (%)	14.4%	47.8%	33.3%	33.3%	13.3%	52.2%	38.9%	38.9%
Yellow Time (s)	3.7	4.0	4.0	4.0	3.7	4.0	4.0	4.0
All-Red Time (s)	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.1	7.4	7.4	7.4	6.0	6.3	6.3	6.3
Lead/Lag	Lead		Lag	Lag	Lead		Lag	Lag
Lead-Lag Optimize?	Yes		Yes	Yes	Yes		Yes	Yes
Recall Mode	None	None	None	None	None	C-Min	C-Min	C-Min
Intersection Summary								

Cycle Length: 90 Actuated Cycle Length: 90

Offset: 73 (81%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 85

Control Type: Actuated-Coordinated



	۶	→	•	•	←	4	1	†	<i>></i>	/	 	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	ተ ኈ		ሻ	ተኈ		ሻ	ተኈ		ሻ	∱ ∱	
Traffic Volume (veh/h)	145	376	149	90	306	24	316	541	91	21	377	114
Future Volume (veh/h)	145	376	149	90	306	24	316	541	91	21	377	114
Number	3	8	18	7	4	14	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.94		0.89	0.93		0.84	0.99		0.94	0.98		0.92
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1676	1676	1710	1676	1676	1710	1676	1676	1710	1676	1676	1710
Adj Flow Rate, veh/h	159	413	164	99	336	26	347	595	100	23	414	125
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	313	846	329	251	731	56	332	1169	196	292	764	227
Arrive On Green	0.07	0.39	0.39	0.25	0.25	0.25	0.09	0.61	0.61	0.43	0.43	0.43
Sat Flow, veh/h	1597	2157	840	700	2952	226	1597	2565	430	656	2370	705
Grp Volume(v), veh/h	159	303	274	99	179	183	347	369	326	23	276	263
Grp Sat Flow(s),veh/h/ln	1597	1593	1404	700	1593	1585	1597	1593	1402	656	1593	1482
Q Serve(g_s), s	5.9	12.8	13.3	11.2	8.6	8.8	6.0	11.9	12.0	1.9	11.6	11.9
Cycle Q Clear(g_c), s	5.9	12.8	13.3	11.5	8.6	8.8	6.0	11.9	12.0	1.9	11.6	11.9
Prop In Lane	1.00		0.60	1.00		0.14	1.00		0.31	1.00		0.48
Lane Grp Cap(c), veh/h	313	624	550	251	394	392	332	726	639	292	514	478
V/C Ratio(X)	0.51	0.48	0.50	0.39	0.46	0.47	1.04	0.51	0.51	0.08	0.54	0.55
Avail Cap(c_a), veh/h	313	630	556	254	400	398	332	726	639	292	514	478
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.64	0.64	0.64	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.9	20.5	20.7	29.9	28.7	28.8	30.1	12.0	12.0	18.0	20.7	20.8
Incr Delay (d2), s/veh	0.6	0.4	0.5	0.7	0.6	0.6	51.6	1.6	1.9	0.5	4.0	4.5
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/ln	2.9	5.7	5.2	2.2	3.9	3.9	10.4	5.5	4.9	0.4	5.6	5.4
LnGrp Delay(d),s/veh	24.4	21.0	21.2	30.7	29.3	29.4	81.7	13.6	13.9	18.5	24.7	25.3
LnGrp LOS	С	С	C	С	С	С	F	В	В	В	С	С
Approach Vol, veh/h		736			461			1042			562	
Approach Delay, s/veh		21.8			29.7			36.3			24.7	
Approach LOS		C			C			D			C	
Timer	1	2	3	4	5	6	7	8			J	
Assigned Phs	<u>'</u> 1	2	3	4		6		8				
Phs Duration (G+Y+Rc), s	12.0	35.3	13.0	29.7		47.3		42.7				
Change Period (Y+Rc), s	6.0	* 6.3	* 7.1	7.4		* 6.3		7.4				
Max Green Setting (Gmax), s	6.0	* 29	* 5.9	22.6		* 41		35.6				
Max Q Clear Time (g_c+l1), s	8.0	13.9	7.9	13.5		14.0		15.3				
Green Ext Time (p_c), s	0.0	1.2	0.0	1.7		1.6		3.0				
Intersection Summary												
HCM 2010 Ctrl Delay			29.1									
HCM 2010 CM Delay			C C									
Notes												

	۶	→	•	←	4	†	>	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	*	∱ î≽	7	ħβ		4		4
Traffic Volume (vph)	61	351	25	302	48	29	12	55
Future Volume (vph)	61	351	25	302	48	29	12	55
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		6		2		4		8
Permitted Phases	6		2		4		8	
Detector Phase	6	6	2	2	4	4	8	8
Switch Phase								
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Minimum Split (s)	33.0	33.0	33.0	33.0	31.3	31.3	31.3	31.3
Total Split (s)	58.0	58.0	58.0	58.0	32.0	32.0	32.0	32.0
Total Split (%)	64.4%	64.4%	64.4%	64.4%	35.6%	35.6%	35.6%	35.6%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0		0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0		4.3		4.3
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	C-Min	C-Min	C-Min	C-Min	None	None	None	None
Intersection Summary								

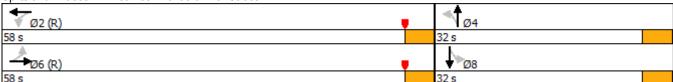
Cycle Length: 90
Actuated Cycle Length: 90

Offset: 46 (51%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow

Natural Cycle: 65

Control Type: Actuated-Coordinated

Splits and Phases: 2: James Avenue & 17th Street



	۶	→	•	•	←	4	1	†	/	/	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	∱ β		ሻ	ተኈ			4			4	
Traffic Volume (veh/h)	61	351	48	25	302	23	48	29	32	12	55	84
Future Volume (veh/h)	61	351	48	25	302	23	48	29	32	12	55	84
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.95		0.89	0.96		0.90	0.95		0.85	0.90		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln	1676	1676	1710	1676	1676	1710	1710	1676	1710	1710	1676	1710
Adj Flow Rate, veh/h	64	366	50	26	315	24	50	30	33	12	57	88
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	625	1773	239	586	1802	136	175	97	89	54	141	193
Arrive On Green	0.80	0.80	0.80	0.80	0.80	0.80	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	890	2777	374	834	2822	213	436	362	329	40	522	716
Grp Volume(v), veh/h	64	208	208	26	176	163	113	0	0	157	0	0
Grp Sat Flow(s),veh/h/ln	890	1593	1558	834	1593	1442	1127	0	0	1278	0	0
Q Serve(g_s), s	1.7	2.8	2.9	0.7	2.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	4.1	2.8	2.9	3.6	2.3	2.4	6.9	0.0	0.0	9.1	0.0	0.0
Prop In Lane	1.00		0.24	1.00		0.15	0.44		0.29	0.08		0.56
Lane Grp Cap(c), veh/h	625	1017	995	586	1017	921	361	0	0	387	0	0
V/C Ratio(X)	0.10	0.20	0.21	0.04	0.17	0.18	0.31	0.00	0.00	0.41	0.00	0.00
Avail Cap(c_a), veh/h	625	1017	995	586	1017	921	404	0	0	435	0	0
HCM Platoon Ratio	1.25	1.25	1.25	1.25	1.25	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.86	0.86	0.86	0.98	0.98	0.98	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	4.0	3.6	3.6	4.0	3.5	3.5	26.4	0.0	0.0	27.3	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.4	0.4	0.1	0.4	0.4	0.4	0.0	0.0	0.5	0.0	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/ln	0.4	1.3	1.3	0.2	1.1	1.0	2.3	0.0	0.0	3.3	0.0	0.0
LnGrp Delay(d),s/veh	4.3	4.0	4.0	4.2	3.9	3.9	26.8	0.0	0.0	27.9	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	С			С		
Approach Vol, veh/h		480			365			113			157	
Approach Delay, s/veh		4.0			3.9			26.8			27.9	
Approach LOS		Α			Α			С			С	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.5		28.5		61.5		28.5				
Change Period (Y+Rc), s		4.0		* 4.3		4.0		* 4.3				
Max Green Setting (Gmax), s		54.0		* 28		54.0		* 28				
Max Q Clear Time (g_c+l1), s		5.6		8.9		6.1		11.1				
Green Ext Time (p_c), s		0.8		0.5		1.0		0.7				
Intersection Summary												
HCM 2010 Ctrl Delay			9.6									
HCM 2010 LOS			Α									
Notes												

	•	→	•	←	4	†	>	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	7	₽		€1 }		€1 }		414
Traffic Volume (vph)	165	46	27	51	155	696	15	707
Future Volume (vph)	165	46	27	51	155	696	15	707
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Minimum Split (s)	30.2	30.2	30.2	30.2	32.0	32.0	32.0	32.0
Total Split (s)	30.2	30.2	30.2	30.2	79.8	79.8	79.8	79.8
Total Split (%)	27.5%	27.5%	27.5%	27.5%	72.5%	72.5%	72.5%	72.5%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.2	2.2	2.2	2.2	3.0	3.0	3.0	3.0
Lost Time Adjust (s)	0.0	0.0		0.0		0.0		0.0
Total Lost Time (s)	6.2	6.2		6.2		7.0		7.0
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min	C-Min
Intersection Summary								

Cycle Length: 110

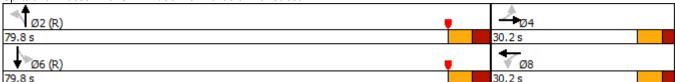
Actuated Cycle Length: 110

Offset: 101 (92%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Splits and Phases: 3: SR A1A/Collins Avenue & 17th Street



	ၨ	→	*	•	←	*	1	†	/	-	↓	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	4î			4Te			414			र्सी	
Traffic Volume (veh/h)	165	46	181	27	51	44	155	696	32	15	707	157
Future Volume (veh/h)	165	46	181	27	51	44	155	696	32	15	707	157
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.83		0.75	0.92		0.75	0.98		0.78	0.97		0.87
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.92	1.00	1.00	0.92
Adj Sat Flow, veh/h/ln	1676	1676	1710	1710	1676	1710	1710	1676	1710	1710	1676	1710
Adj Flow Rate, veh/h	179	50	197	29	55	48	168	757	35	16	768	171
Adj No. of Lanes	1	1	0	0	2	0	0	2	0	0	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	212	51	202	61	136	135	267	1164	55	47	1540	339
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22	0.88	0.88	0.88	0.88	0.88	0.88
Sat Flow, veh/h	960	235	924	22	623	617	333	1758	83	20	2327	512
Grp Volume(v), veh/h	179	0	247	41	0	91	385	0	575	548	0	407
Grp Sat Flow(s), veh/h/ln	960	0	1159	87	0	1176	813	0	1361	1640	0	1220
,	16.7	0.0	23.3	0.7	0.0	7.3	15.8	0.0	12.7		0.0	7.9
Q Serve(g_s), s										0.0		7.9 7.9
Cycle Q Clear(g_c), s	24.0	0.0	23.3	24.0	0.0	7.3	23.7	0.0	12.7	7.6	0.0	
Prop In Lane	1.00	0	0.80	0.71	0	0.52	0.44	0	0.06	0.03	0	0.42
Lane Grp Cap(c), veh/h	212	0	253	75 0.54	0	257	585	0	901	1119	0	807
V/C Ratio(X)	0.85	0.00	0.98	0.54	0.00	0.36	0.66	0.00	0.64	0.49	0.00	0.50
Avail Cap(c_a), veh/h	212	0	253	75	0	257	585	0	901	1119	0	807
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33
Upstream Filter(I)	0.99	0.00	0.99	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	48.2	0.0	42.7	47.9	0.0	36.5	4.0	0.0	3.0	2.7	0.0	2.7
Incr Delay (d2), s/veh	25.2	0.0	49.7	6.2	0.0	0.6	5.7	0.0	3.5	1.5	0.0	2.2
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/ln	6.9	0.0	11.0	1.4	0.0	2.4	5.4	0.0	5.3	3.9	0.0	3.0
LnGrp Delay(d),s/veh	73.4	0.0	92.4	54.1	0.0	37.1	9.7	0.0	6.4	4.2	0.0	4.9
LnGrp LOS	E		F	D		D	Α		A	Α		A
Approach Vol, veh/h		426			132			960			955	
Approach Delay, s/veh		84.4			42.3			7.7			4.5	
Approach LOS		F			D			Α			Α	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		79.8		30.2		79.8		30.2				
Change Period (Y+Rc), s		7.0		* 6.2		7.0		* 6.2				
Max Green Setting (Gmax), s		72.8		* 24		72.8		* 24				
Max Q Clear Time (g_c+l1), s		25.7		26.0		9.9		26.0				
Green Ext Time (p_c), s		3.6		0.0		2.6		0.0				
Intersection Summary												
HCM 2010 Ctrl Delay			21.6									
HCM 2010 LOS			C									
Notes												

	<	•	†	-	↓	
Lane Group	WBL	WBR	NBT	SBL	SBT	Ø3
Lane Configurations	Ä	7	∱ }	7	^	
Traffic Volume (vph)	135	91	831	65	684	
Future Volume (vph)	135	91	831	65	684	
Turn Type	Prot	Perm	NA	pm+pt	NA	
Protected Phases	4		2	1	6	3
Permitted Phases		4		6		
Detector Phase	4	4	2	1	6	
Switch Phase						
Minimum Initial (s)	7.0	7.0	14.0	5.0	14.0	1.0
Minimum Split (s)	12.0	12.0	19.0	8.0	19.0	27.0
Total Split (s)	23.0	23.0	51.0	9.0	60.0	27.0
Total Split (%)	20.9%	20.9%	46.4%	8.2%	54.5%	25%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.0	2.0
All-Red Time (s)	1.0	1.0	1.0	0.0	1.0	0.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0	5.0	3.0	5.0	
Lead/Lag	Lag	Lag	Lag	Lead		Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes		Yes
Recall Mode	None	None	C-Min	None	C-Min	None
Intersection Summary						

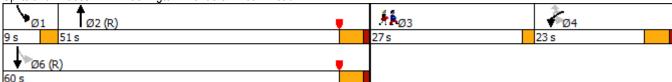
Cycle Length: 110
Actuated Cycle Length: 110

Offset: 48 (44%), Referenced to phase 2:NBT and 6:SBTL, Start of Yellow

Natural Cycle: 100

Control Type: Actuated-Coordinated

Splits and Phases: 4: Washington Avenue & Lincoln Road



	F	•	•	†	~	\	ļ	
Movement	WBU	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations		ă	7	↑ ↑		ሻ	^	
Traffic Volume (vph)	7	135	91	831	150	65	684	
Future Volume (vph)	7	135	91	831	150	65	684	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	
Total Lost time (s)		5.0	5.0	5.0		3.0	5.0	
Lane Util. Factor		1.00	1.00	0.95		1.00	0.95	
Frpb, ped/bikes		1.00	0.62	0.97		1.00	1.00	
Flpb, ped/bikes		0.53	1.00	1.00		1.00	1.00	
Frt		1.00	0.85	0.98		1.00	1.00	
Flt Protected		0.95	1.00	1.00		0.95	1.00	
Satd. Flow (prot)		844	884	3028		1589	3185	
Flt Permitted		0.95	1.00	1.00		0.14	1.00	
Satd. Flow (perm)		844	884	3028		241	3185	
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
Adj. Flow (vph)	8	150	101	923	167	72	760	
RTOR Reduction (vph)	0	0	65	12	0	0	0	
Lane Group Flow (vph)	0	158	36	1078	0	72	760	
Confl. Peds. (#/hr)	260	1124	807	.0.0	260	260	. 00	
Confl. Bikes (#/hr)	200		5		9	200		
Parking (#/hr)			ŭ		0			
Turn Type	Perm	Prot	Perm	NA		pm+pt	NA	
Protected Phases	1 01111	4	1 01111	2		1	6	
Permitted Phases	4	7	4	_		6	O	
Actuated Green, G (s)	•	39.7	39.7	52.4		60.3	60.3	
Effective Green, g (s)		39.7	39.7	52.4		60.3	60.3	
Actuated g/C Ratio		0.36	0.36	0.48		0.55	0.55	
Clearance Time (s)		5.0	5.0	5.0		3.0	5.0	
Vehicle Extension (s)		1.0	1.0	1.0		1.0	1.0	
Lane Grp Cap (vph)		304	319	1442		192	1745	
v/s Ratio Prot		JU4	010	c0.36		0.02	c0.24	
v/s Ratio Perm		0.19	0.04	60.00		0.19	00.ZT	
v/c Ratio		0.52	0.11	0.75		0.13	0.44	
Uniform Delay, d1		27.7	23.4	23.4		15.1	14.7	
Progression Factor		1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2		0.6	0.1	3.6		0.4	0.8	
Delay (s)		28.3	23.6	27.0		15.6	15.5	
Level of Service		20.5 C	23.0 C	27.0 C		13.0 B	13.3 B	
Approach Delay (s)		26.5	O	27.0		D	15.5	
Approach LOS		20.5 C		27.0 C			13.3 B	
Intersection Summary		-		-			_	
HCM 2000 Control Delay			22.6	H	CM 2000	Level of	Service	С
HCM 2000 Volume to Capaci	tv ratio		0.65	110	2111 2000	_0,0101	231 1100	•
Actuated Cycle Length (s)	.,		110.0	Sı	ım of los	t time (s)		15.0
Intersection Capacity Utilization	on		58.2%			of Service		В
Analysis Period (min)			15	.0	5 25101	J. 551 1100		2
c Critical Lane Group								

Intersection									
Int Delay, s/veh	7420.1								
Movement	EBU	EBL	EBT	WBU	WBT	WBR	SBL	SBR	
Lane Configurations			41₽		4î.		- 14		
Traffic Vol, veh/h	7	47	149	21	169	50	52	72	
Future Vol, veh/h	7	47	149	21	169	50	52	72	
Conflicting Peds, #/hr	255	779	0	204	0	779	204	255	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	- 1	None	-	-	None	-	None	
Storage Length	_	_	-	_	_	-	0	-	
Veh in Median Storag	e.# -	_	0	_	0	_	0	_	
Grade, %	-	_	0	_	0	_	0	_	
Peak Hour Factor	91	91	91	91	91	91	91	91	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	
Mvmt Flow	8	52	164	23	186	55	57	79	
MINITE FIOW	0	52	104	23	100	55	31	19	
NA = i = =/NA:== = =	M-:4			M=:==0			t:•0		
Major/Minor	Major1	4000		Major2			Minor2	44	
Conflicting Flow All	241	1020	0	164	-	0	1445	1155	
Stage 1	-	-	-	-	-	-	1039	-	
Stage 2	<u>-</u>		-	<u>-</u>	-	-	406	-	
Critical Hdwy	6.44	4.14	-	6.44	-	-	5	5	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.84	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.84	-	
Follow-up Hdwy	2.52	2.22	-	2.52	-	-	3	3	
Pot Cap-1 Maneuver	1009	676	-	1128	-	-	277	376	
Stage 1	-	-	-	-	-	-	332	-	
Stage 2	-	-	-	-	-	-	732	-	
Platoon blocked, %			-		-	-			
Mov Cap-1 Maneuver	70	70	-	1128	-	-	~ 1	~ 73	
Mov Cap-2 Maneuver	_	-	-	-	-	-	~ 1	-	
Stage 1	_	-	-	-	-	_	~ 6	-	
Stage 2	-	-	-	-	-	-	189	-	
Approach	EB			WB			SB		
HCM Control Delay, s	113.2			0.8		\$ 33	3742.3		
HCM LOS						, ,	F		
Minor Lane/Major Mvr	mt	EBL	EBT	WBT	WBR	SBLn1			
Capacity (veh/h)		70				2			
HCM Lane V/C Ratio		0.738		-		38.132			
HCM Control Delay (s	.\	165.8	94.1	0.1		3742.3			
HCM Lane LOS	')	100.0 F	94.1 F	0.1 A	φЭ	5/42.5 F			
	٠١	3.4	Г	А	-	г 19.4			
HCM 95th %tile Q(veh	1)	3.4	-	-	-	19.4			
Notes									
~: Volume exceeds ca	apacity	\$: De	lay exc	eeds 30	00s	+: Comp	outation	Not De	fined *: All major volume in platoon



1: Washington Avenue & 17th Street

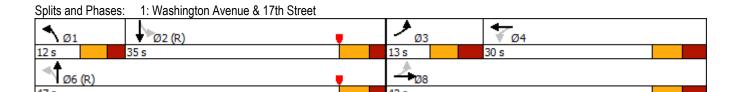
	٠	-	•	←	4	†	>	↓
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	7	∱ }	7	∱ ∱	7	∱ ∱	7	ħβ
Traffic Volume (vph)	145	396	90	302	329	542	32	373
Future Volume (vph)	145	396	90	302	329	542	32	373
Turn Type	pm+pt	NA	Perm	NA	pm+pt	NA	Perm	NA
Protected Phases	3	8		4	· · · 1	6		2
Permitted Phases	8		4		6		2	
Detector Phase	3	8	4	4	1	6	2	2
Switch Phase								
Minimum Initial (s)	5.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.1	30.4	30.0	30.0	11.0	27.3	27.3	27.3
Total Split (s)	13.0	43.0	30.0	30.0	12.0	47.0	35.0	35.0
Total Split (%)	14.4%	47.8%	33.3%	33.3%	13.3%	52.2%	38.9%	38.9%
Yellow Time (s)	3.7	4.0	4.0	4.0	3.7	4.0	4.0	4.0
All-Red Time (s)	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.1	7.4	7.4	7.4	6.0	6.3	6.3	6.3
Lead/Lag	Lead		Lag	Lag	Lead		Lag	Lag
Lead-Lag Optimize?	Yes		Yes	Yes	Yes		Yes	Yes
Recall Mode	None	None	None	None	None	C-Min	C-Min	C-Min
Intersection Summary								

Cycle Length: 90
Actuated Cycle Length: 90

Offset: 73 (81%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 85

Control Type: Actuated-Coordinated



	≯	→	•	•	←	•	•	†	~	/		4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		∱ ⊅		ሻ	∱ ⊅		ሻ	ተኈ		ሻ	ħβ	
Traffic Volume (veh/h)	145	396	149	90	302	24	329	542	142	32	373	114
Future Volume (veh/h)	145	396	149	90	302	24	329	542	142	32	373	114
Number	3	8	18	7	4	14	1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.94		0.89	0.94		0.84	0.99		0.94	0.98		0.92
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1676	1676	1710	1676	1676	1710	1676	1676	1710	1676	1676	1710
Adj Flow Rate, veh/h	159	435	164	99	332	26	362	596	156	35	410	125
Adj No. of Lanes	1	2	0	1	2	0	1	2	0	1	2	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	315	860	319	244	731	57	333	1066	278	269	762	228
Arrive On Green	0.07	0.39	0.39	0.25	0.25	0.25	0.09	0.61	0.61	0.43	0.43	0.43
Sat Flow, veh/h	1597	2193	813	688	2948	228	1597	2339	610	624	2364	709
Grp Volume(v), veh/h	159	314	285	99	177	181	362	405	347	35	274	261
Grp Sat Flow(s),veh/h/ln	1597	1593	1413	688	1593	1584	1597	1593	1357	624	1593	1481
Q Serve(g_s), s	5.9	13.4	13.8	11.5	8.5	8.7	6.0	13.6	13.7	3.3	11.5	11.8
Cycle Q Clear(g_c), s	5.9	13.4	13.8	12.3	8.5	8.7	6.0	13.6	13.7	5.0	11.5	11.8
Prop In Lane	1.00		0.58	1.00		0.14	1.00		0.45	1.00		0.48
Lane Grp Cap(c), veh/h	315	625	554	244	395	393	333	725	618	269	513	477
V/C Ratio(X)	0.50	0.50	0.51	0.41	0.45	0.46	1.09	0.56	0.56	0.13	0.53	0.55
Avail Cap(c_a), veh/h	315	630	559	246	400	398	333	725	618	269	513	477
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.33	1.33	1.33	1.33	1.33
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.61	0.61	0.61	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.8	20.7	20.8	30.5	28.6	28.7	30.1	12.3	12.4	19.4	20.7	20.8
Incr Delay (d2), s/veh	0.5	0.5	0.6	0.8	0.6	0.6	63.9	1.9	2.2	1.0	3.9	4.5
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/ln	2.9	5.9	5.5	2.2	3.8	3.9	5.9	6.3	5.5	0.6	5.6	5.4
LnGrp Delay(d),s/veh	24.3	21.2	21.4	31.3	29.2	29.4	94.0	14.2	14.6	20.4	24.7	25.3
LnGrp LOS	С	C	С	С	C	С	F	B	В	С	C	<u>C</u>
Approach Vol, veh/h		758			457			1114			570	
Approach Delay, s/veh		21.9			29.7			40.3			24.7	
Approach LOS		С			С			D			С	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	3	4		6		8				
Phs Duration (G+Y+Rc), s	12.0	35.3	13.0	29.7		47.3		42.7				
Change Period (Y+Rc), s	6.0	* 6.3	* 7.1	7.4		* 6.3		7.4				
Max Green Setting (Gmax), s	6.0	* 29	* 5.9	22.6		* 41		35.6				
Max Q Clear Time (g_c+l1), s	8.0	13.8	7.9	14.3		15.7		15.8				
Green Ext Time (p_c), s	0.0	1.3	0.0	1.6		1.8		3.1				
Intersection Summary												
HCM 2010 Ctrl Delay			30.8									
HCM 2010 LOS			С									
			•									

	•	→	•	←	4	†	\	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	7	∱ ∱	7	∱ î≽		4		4
Traffic Volume (vph)	62	341	25	305	48	29	12	55
Future Volume (vph)	62	341	25	305	48	29	12	55
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		6		2		4		8
Permitted Phases	6		2		4		8	
Detector Phase	6	6	2	2	4	4	8	8
Switch Phase								
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Minimum Split (s)	33.0	33.0	33.0	33.0	31.3	31.3	31.3	31.3
Total Split (s)	58.0	58.0	58.0	58.0	32.0	32.0	32.0	32.0
Total Split (%)	64.4%	64.4%	64.4%	64.4%	35.6%	35.6%	35.6%	35.6%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0		0.0		0.0
Total Lost Time (s)	4.0	4.0	4.0	4.0		4.3		4.3
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	C-Min	C-Min	C-Min	C-Min	None	None	None	None
Intersection Summary								

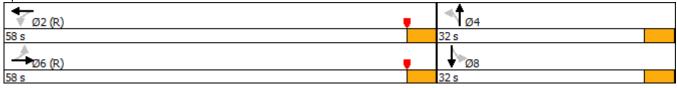
Cycle Length: 90
Actuated Cycle Length: 90

Offset: 46 (51%), Referenced to phase 2:WBTL and 6:EBTL, Start of Yellow

Natural Cycle: 65

Control Type: Actuated-Coordinated

Splits and Phases: 2: James Avenue & 17th Street



	۶	→	*	•	←	4	1	†	/	/		1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	∱ ⊅		ሻ	ተኈ			4			4	
Traffic Volume (veh/h)	62	341	52	25	305	23	48	29	32	12	55	86
Future Volume (veh/h)	62	341	52	25	305	23	48	29	32	12	55	86
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.95		0.89	0.96		0.90	0.95		0.85	0.90		0.91
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	0.90	1.00	1.00	0.90
Adj Sat Flow, veh/h/ln	1676	1676	1710	1676	1676	1710	1710	1676	1710	1710	1676	1710
Adj Flow Rate, veh/h	65	355	54	26	318	24	50	30	33	12	57	90
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	623	1743	261	589	1803	135	175	97	88	54	139	195
Arrive On Green	0.80	0.80	0.80	0.80	0.80	0.80	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	888	2731	409	839	2824	211	434	360	328	39	515	723
Grp Volume(v), veh/h	65	205	204	26	178	164	113	0	0	159	0	0
Grp Sat Flow(s),veh/h/ln	888	1593	1547	839	1593	1443	1123	0	0	1276	0	0
Q Serve(g_s), s	1.7	2.8	2.9	0.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	4.1	2.8	2.9	3.6	2.4	2.4	6.9	0.0	0.0	9.2	0.0	0.0
Prop In Lane	1.00		0.26	1.00		0.15	0.44		0.29	0.08		0.57
Lane Grp Cap(c), veh/h	623	1017	988	589	1017	921	360	0	0	387	0	0
V/C Ratio(X)	0.10	0.20	0.21	0.04	0.17	0.18	0.31	0.00	0.00	0.41	0.00	0.00
Avail Cap(c_a), veh/h	623	1017	988	589	1017	921	402	0	0	435	0	0
HCM Platoon Ratio	1.25	1.25	1.25	1.25	1.25	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.85	0.85	0.85	0.98	0.98	0.98	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	4.0	3.6	3.6	4.0	3.5	3.5	26.4	0.0	0.0	27.4	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.4	0.4	0.1	0.4	0.4	0.4	0.0	0.0	0.5	0.0	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/ln	0.5	1.3	1.3	0.2	1.1	1.0	2.3	0.0	0.0	3.3	0.0	0.0
LnGrp Delay(d),s/veh	4.3	4.0	4.0	4.2	3.9	3.9	26.8	0.0	0.0	27.9	0.0	0.0
LnGrp LOS	Α	A	A	A	A	A	С			С		
Approach Vol, veh/h		474			368			113			159	
Approach Delay, s/veh		4.0			3.9			26.8			27.9	
Approach LOS		Α			Α			С			С	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.4		28.6		61.4		28.6				
Change Period (Y+Rc), s		4.0		* 4.3		4.0		* 4.3				
Max Green Setting (Gmax), s		54.0		* 28		54.0		* 28				
Max Q Clear Time (g_c+I1), s		5.6		8.9		6.1		11.2				
Green Ext Time (p_c), s		0.8		0.5		1.0		0.7				
Intersection Summary												
HCM 2010 Ctrl Delay			9.7									
HCM 2010 LOS			Α									
Notes												

	•	→	•	•	4	†	\	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations	"	₽		€1₽		413-		€ 1Ъ
Traffic Volume (vph)	162	44	27	51	155	696	15	707
Future Volume (vph)	162	44	27	51	155	696	15	707
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2 2	2	6	6
Switch Phase								
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Minimum Split (s)	30.2	30.2	30.2	30.2	32.0	32.0	32.0	32.0
Total Split (s)	30.2	30.2	30.2	30.2	79.8	79.8	79.8	79.8
Total Split (%)	27.5%	27.5%	27.5%	27.5%	72.5%	72.5%	72.5%	72.5%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.2	2.2	2.2	2.2	3.0	3.0	3.0	3.0
Lost Time Adjust (s)	0.0	0.0		0.0		0.0		0.0
Total Lost Time (s)	6.2	6.2		6.2		7.0		7.0
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min	C-Min
Intersection Summary								

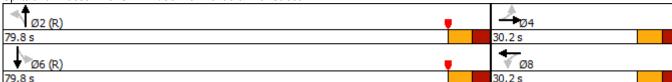
Cycle Length: 110
Actuated Cycle Length: 110

Offset: 101 (92%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Splits and Phases: 3: SR A1A/Collins Avenue & 17th Street



	۶	→	*	•	←	1	1	†	/	/		1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	₽			€î₽			4Te			र्सी के	
Traffic Volume (veh/h)	162	44	176	27	51	44	155	696	32	15	707	160
Future Volume (veh/h)	162	44	176	27	51	44	155	696	32	15	707	160
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.83		0.75	0.91		0.75	0.98		0.78	0.98		0.87
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.92	1.00	1.00	0.92
Adj Sat Flow, veh/h/ln	1676	1676	1710	1710	1676	1710	1710	1676	1710	1710	1676	1710
Adj Flow Rate, veh/h	176	48	191	29	55	48	168	757	35	16	768	174
Adj No. of Lanes	1	1	0	0	2	0	0	2	0	0	2	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	212	51	202	66	138	137	257	1151	55	47	1534	344
Arrive On Green	0.17	0.17	0.17	0.22	0.22	0.22	0.83	0.83	0.83	0.83	0.83	0.83
Sat Flow, veh/h	959	233	925	48	630	626	317	1739	83	20	2318	519
Grp Volume(v), veh/h	176	0	239	42	0	90	385	0	575	550	0	408
Grp Sat Flow(s),veh/h/ln	959	0	1158	134	0	1171	778	0	1361	1640	0	1217
Q Serve(g_s), s	16.9	0.0	22.4	1.6	0.0	7.1	23.7	0.0	17.0	0.0	0.0	11.0
Cycle Q Clear(g_c), s	24.0	0.0	22.4	24.0	0.0	7.1	34.7	0.0	17.0	10.6	0.0	11.0
Prop In Lane	1.00		0.80	0.69		0.53	0.44		0.06	0.03		0.43
Lane Grp Cap(c), veh/h	212	0	253	84	0	255	562	0	900	1119	0	806
V/C Ratio(X)	0.83	0.00	0.95	0.50	0.00	0.35	0.69	0.00	0.64	0.49	0.00	0.51
Avail Cap(c_a), veh/h	212	0	253	84	0	255	562	0	900	1119	0	806
HCM Platoon Ratio	0.80	0.80	0.80	1.00	1.00	1.00	1.25	1.25	1.25	1.25	1.25	1.25
Upstream Filter(I)	0.99	0.00	0.99	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	50.4	0.0	44.8	47.0	0.0	36.4	7.4	0.0	4.7	4.1	0.0	4.2
Incr Delay (d2), s/veh	22.4	0.0	41.5	3.4	0.0	0.6	6.7	0.0	3.5	1.5	0.0	2.3
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/ln	6.7	0.0	10.1	1.4	0.0	2.4	7.5	0.0	7.0	5.2	0.0	4.0
LnGrp Delay(d),s/veh	72.8	0.0	86.3	50.4	0.0	37.0	14.1	0.0	8.1	5.7	0.0	6.4
LnGrp LOS	E		F	D		D	В		Α	Α		A
Approach Vol, veh/h		415			132			960			958	
Approach Delay, s/veh		80.5			41.3			10.5			6.0	
Approach LOS		F			D			В			Α	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		79.8		30.2		79.8		30.2				
Change Period (Y+Rc), s		7.0		* 6.2		7.0		* 6.2				
Max Green Setting (Gmax), s		72.8		* 24		72.8		* 24				
Max Q Clear Time (g_c+I1), s		36.7		26.0		13.0		26.0				
Green Ext Time (p_c), s		3.6		0.0		2.6		0.0				
Intersection Summary												
HCM 2010 Ctrl Delay												
HOW ZUTU CITI DEIAV			22.2									
HCM 2010 Ctil Delay			22.2 C									

4: Washington Avenue & Lincoln Road

	•	•	†	>	ļ	
Lane Group	WBL	WBR	NBT	SBL	SBT	Ø3
Lane Configurations	Ä	7	ħβ	7	^	
Traffic Volume (vph)	139	91	835	65	680	
Future Volume (vph)	139	91	835	65	680	
Turn Type	Prot	Perm	NA	pm+pt	NA	
Protected Phases	4		2	1	6	3
Permitted Phases		4		6		
Detector Phase	4	4	2	1	6	
Switch Phase						
Minimum Initial (s)	7.0	7.0	14.0	5.0	14.0	1.0
Minimum Split (s)	12.0	12.0	19.0	8.0	19.0	27.0
Total Split (s)	23.0	23.0	51.0	9.0	60.0	27.0
Total Split (%)	20.9%	20.9%	46.4%	8.2%	54.5%	25%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.0	2.0
All-Red Time (s)	1.0	1.0	1.0	0.0	1.0	0.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0	5.0	3.0	5.0	
Lead/Lag	Lag	Lag	Lag	Lead		Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes		Yes
Recall Mode	None	None	C-Min	None	C-Min	None
Intersection Summary						

Intersection Summary
Cycle Length: 110

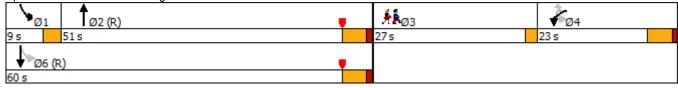
Actuated Cycle Length: 110

Offset: 48 (44%), Referenced to phase 2:NBT and 6:SBTL, Start of Yellow

Natural Cycle: 100

Control Type: Actuated-Coordinated

Splits and Phases: 4: Washington Avenue & Lincoln Road



	F	•	•	†	~	\	ļ	
Movement	WBU	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations		ă	7	↑ ⊅		ሻ	^	
Traffic Volume (vph)	7	139	91	835	150	65	680	
Future Volume (vph)	7	139	91	835	150	65	680	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	
Total Lost time (s)		5.0	5.0	5.0		3.0	5.0	
Lane Util. Factor		1.00	1.00	0.95		1.00	0.95	
Frpb, ped/bikes		1.00	0.62	0.97		1.00	1.00	
Flpb, ped/bikes		0.54	1.00	1.00		1.00	1.00	
Frt		1.00	0.85	0.98		1.00	1.00	
Flt Protected		0.95	1.00	1.00		0.95	1.00	
Satd. Flow (prot)		856	890	3027		1589	3185	
Flt Permitted		0.95	1.00	1.00		0.14	1.00	
Satd. Flow (perm)		856	890	3027		228	3185	
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
Adj. Flow (vph)	8	154	101	928	167	72	756	
RTOR Reduction (vph)	0	0	63	12	0	0	0	
Lane Group Flow (vph)	0	162	38	1083	0	72	756	
Confl. Peds. (#/hr)	260	1124	807	.000	260	260		
Confl. Bikes (#/hr)	200		5		9	200		
Parking (#/hr)			ŭ		0			
Turn Type	Perm	Prot	Perm	NA		pm+pt	NA	
Protected Phases	1 01111	4	1 01111	2		1	6	
Permitted Phases	4	7	4	_		6	O	
Actuated Green, G (s)	•	41.1	41.1	51.0		58.9	58.9	
Effective Green, g (s)		41.1	41.1	51.0		58.9	58.9	
Actuated g/C Ratio		0.37	0.37	0.46		0.54	0.54	
Clearance Time (s)		5.0	5.0	5.0		3.0	5.0	
Vehicle Extension (s)		1.0	1.0	1.0		1.0	1.0	
Lane Grp Cap (vph)		319	332	1403		182	1705	
v/s Ratio Prot		010	002	c0.36		0.02	c0.24	
v/s Ratio Perm		0.19	0.04	60.00		0.19	00.ZT	
v/c Ratio		0.13	0.11	0.77		0.40	0.44	
Uniform Delay, d1		26.6	22.5	24.6		16.1	15.6	
Progression Factor		1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2		0.5	0.1	4.2		0.5	0.8	
Delay (s)		27.2	22.5	28.8		16.6	16.4	
Level of Service		C C	22.3 C	20.0 C		10.0	В	
Approach Delay (s)		25.4	J	28.8		D	16.4	
Approach LOS		23.4 C		20.0 C			В	
Intersection Summary								
HCM 2000 Control Delay			23.7	Н	CM 2000	Level of	Service	С
HCM 2000 Volume to Capaci	tv ratio		0.66		000		2	-
Actuated Cycle Length (s)	-,		110.0	Sı	ım of los	t time (s)		15.0
Intersection Capacity Utilization	on		58.3%			of Service		В
Analysis Period (min)			15	.0	2 20.01	55. 1100		-
c Critical Lane Group								

•									
Intersection									
Int Delay, s/veh	384.3								
Movement	EBU	EBL	EBT	WBU	WBT	WBR	SBL	SBR	
Lane Configurations			4₽		र्सी के		¥		
Traffic Vol, veh/h	7	47	149	21	169	50	52	76	
Future Vol, veh/h	7	47	149	21	169	50	52	76	
Conflicting Peds, #/hr	255	779	0	204	0	779	204	255	
Sign Control	Free	Free	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	91	91	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	
Mymt Flow	8	52	164	23	186	55	57	84	
IVIVIIIL FIUW	0	52	104	23	100	55	37	04	
	Major1			Major2		ľ	Minor2		
Conflicting Flow All	241	1020	0	164	-	0	1445	1155	
Stage 1	-	-	-	-	-	-	1039	-	
Stage 2	-	-	-	-	-	-	406	-	
Critical Hdwy	6.44	4.14	-	6.44	-	-	5	5	
Critical Hdwy Stg 1	-	-	-	-	-	-	5.84	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	5.84	-	
Follow-up Hdwy	2.52	2.22	-	2.52	-	-	3	3	
Pot Cap-1 Maneuver	1009	676	-	1128	-	-	277	376	
Stage 1	-	-	-	-	-	-	332	-	
Stage 2	_	_	_	_	_	-	732	_	
Platoon blocked, %			_		_	_			
Mov Cap-1 Maneuver	~ -17	~ -17	_	1128	_	_	~ 18	~ 73	
Mov Cap-2 Maneuver	-		_		_	_	~ 18	-	
Stage 1	_	_	_	_	_	_	84	_	
Stage 2	-	-	-	-	-	-	189	-	
Olaye Z	-	-	-	-	-	-	103	-	
Annroach	EB			WB			SB		
Approach	LD			0.8		(
HCM LOS				U.ŏ		,	1713		
HCM LOS							F		
NAT: /NA	.1	EDI		MOT	WEE	0DL 4			
Minor Lane/Major Mvm	IT	EBL	EBT	WBT	WBR				
Capacity (veh/h)		+	-	-	-	33			
HCM Lane V/C Ratio		-	-	-		4.262			
HCM Control Delay (s)		-	-	0.1	- ;	\$ 1713			
HCM Lane LOS		-	-	Α	-	F			
HCM 95th %tile Q(veh))	-	-	-	-	16.6			
Notes									
	naoity	¢. D.	lay aya	20d2 3()/\c	r. Com	utotion	Not Def	and *: All major volume in platean
~: Volume exceeds cap	pacity	∌; D€	ay exc	eeds 30	JUS .	+. Comp	วนเสแปโ	Not Defi	ned *: All major volume in platoon

-						
Intersection						
Int Delay, s/veh	0.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		7	^			^
Traffic Vol, veh/h	0	81	890	0	0	658
Future Vol, veh/h	0	81	890	0	0	658
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	- -	None	-	None	-	None
Storage Length	_	0	_	-	_	-
Veh in Median Storage		-	0	-	_	0
Grade, %	, π 0	-	0	-	-	0
Peak Hour Factor	92	92	92	- 92	92	92
			92			
Heavy Vehicles, %	2	2		2	2	2
Mvmt Flow	0	88	967	0	0	715
Major/Minor N	/linor1	N	Major1	N	Major2	
Conflicting Flow All	-	484	0		-	-
Stage 1	_	_	-	_	_	_
Stage 2	_	_	-	_	-	_
Critical Hdwy	_	5	_	_	_	_
Critical Hdwy Stg 1	_	-	_	_	_	_
Critical Hdwy Stg 2	_	_	_	_	_	_
Follow-up Hdwy	_	3	_	_	_	_
Pot Cap-1 Maneuver	0	745	-	0	0	-
•		745	-			-
Stage 1	0	-	-	0	0	-
Stage 2	0	-	-	0	0	-
Platoon blocked, %			-			-
Mov Cap-1 Maneuver	-	745	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
-						
Approach	WB		NB		SB	
HCM Control Delay, s	10.5		0		0	
HCM LOS	В					
	_					
Minor Lane/Major Mvm	t	NBTV	VBLn1	SBT		
Capacity (veh/h)	-		745			
HCM Lane V/C Ratio			0.118	_		
HCM Control Delay (s)		-	10.5	-		
HCM Lane LOS		-	10.5 B	-		
		-	0.4	-		
HCM 95th %tile Q(veh)	1	-	0.4	-		

Attachment BUpdated Valet Analysis



MEMORANDUM

To: Firat Akcay, City of Miami Beach

Josiel Ferrer, E.I., City of Miami Beach

From: Adrian K. Dabkowski, P.E., PTOE

Cory D. Dorman, E.I./

Date: April 26, 2018

Subject: 1685 Washington Avenue Valet Operations Analysis

Kimley-Horn and Associates, Inc. has prepared a valet operations analysis for the proposed redevelopment located at 1685 Washington Avenue in Miami Beach, Florida. Currently, the site is occupied by a 6,644 square-foot drive-in bank. The proposed redevelopment will consist of a 150-room hotel, 2,023 square feet of specialty retail space, a 4,000 square-foot walk-in bank, and 295 total restaurant seats with 145 seats located on the ground floor (5,258 square feet) and 150 seats located on the rooftop level (2,156 indoor square feet and 2,244 exterior square feet). The parking garage includes 110 mechanical-lift parking spaces and 12 conventional parking spaces. Please note that on-site self-parking will be provided for the proposed walk-in bank and all other vehicles will be valeted to the on-site parking garage with the exception of taxis/rideshare. A conceptual site plan and project location map are included in Attachment A.

VALET SERVICE AND OPERATIONS

The redevelopment will be served by one (1) porte-cochere for valet drop-off and pick-up. The porte-cochere is located on-site just south of 17th Street project driveway. The porte-cochere consists of one (1) storage lane with approximately four (4) vehicles of storage and one (1) bypass lane. It is assumed that three (3) spaces will be used for valet operations and one (1) space will be used for taxi/rideshare.

Access to the proposed redevelopment will be provided by one (1) ingress left-in/right-in driveway along 17th Street between Washington Avenue and James Avenue and one (1) egress right-out only driveway along Washington Avenue between 17th Street and Lincoln Road. On-site self-parking will be provided for the proposed walk-in bank. All other vehicles will be valeted on-site with the exception of taxis and rideshare. The parking garage includes 110 mechanical-lift parking spaces and 12 conventional parking spaces. All mechanical-lift parking spaces are assumed to be used for valet and all conventional parking spaces are assumed to be used for self-parking.

The valet drop-off route is contained within the site and is not expected to impact the external roadway network. It is assumed that valet pick-up vehicles will exit the site via the Washington Avenue project driveway, travel northbound along Washington Avenue, travel eastbound along 17th Street, and utilize the 17th Street project driveway to access the on-site porte-cochere. Figure 2 contained in Attachment A provides a graphic illustration of the proposed valet routes to and from the on-site parking garage.



TRIP GENERATION

Trip generation for the proposed redevelopment was calculated using rates contained in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 10th Edition. Trip generation rates were examined for the weekday P.M. peak hour. Please note that a 42.6 percent (42.6%) taxi/rideshare trip factor was applied to the hotel and restaurant components of the redevelopment to account for guests and patrons arriving via taxi/rideshare to the site and to determine the number of valet trips. The proposed redevelopment is expected to generate 80 valet trips of which 47 enter the site and 33 exit the site during the P.M. peak hour. Detailed trip generation calculations are included in Attachment B.

VALET OPERATIONS ANALYSIS

The valet queuing operations analysis was performed based on the methodology outlined in ITE's *Transportation and Land Development,* 1988. The analysis was performed to determine if valet operations could accommodate vehicular queues without blocking travel lanes on 17th Street. Valet operations were analyzed for the number of valet attendants and required vehicle stacking for the redevelopment proposed traffic.

Valet Assumptions

The queuing analysis used the multiple-channel waiting line model with Poisson arrivals and exponential service times. The queuing analysis is based on the coefficient of utilization, ρ , which is the ratio of the average vehicle arrival rate over the average service rate multiplied by the number of channels.

Valet attendants will be stationed at the on-site porte-cochere. Valet drop-off trip service time was calculated based on the time it would take a valet parking attendant to obtain and park a drop-off vehicle within the on-site parking garage. Valet pick-up trip service time was calculated based on the time it would take a valet parking attendant to bring a parked vehicle back to a patron at the on-site porte-cochere for pick-up. Note that the average mechanical-lift processing time was based on the Klaus Model G61 vehicle lift. The average mechanical-lift processing time was based on the average processing times of parking and retrieving vehicles from all the various positions within the tandem mechanical-lift system. The detailed mechanical-lift processing time analysis is contained in Attachment C. The following summarizes the total valet drop-off and pick-up service times.

The service time for valet drop-off operation corresponds to the following:

- Exchange between valet attendant and driver including unloading luggage (1.0 minute)
- Valet attendant drives vehicle from porte-cochere to on-site parking garage (0.6 minutes)
- Valet attendant parks vehicle using mechanical-lift (1.7 minutes)
- Valet attendant returns to valet station (0.4 minutes)
- Total service rate: 3.7 minutes

The service time for valet pick-off operation corresponds to the following:

- Valet attendant proceeds to the garage to retrieve the vehicle (0.4 minutes)
- Valet attendant retrieves moves vehicle from mechanical-lift (1.6 minutes)



- Valet attendant drives vehicle from on-site parking garage to the porte-cochere (1.2 minutes)
- Exchange between valet attendant and driver and loading baggage (1.0 minute)
- Total service rate: 4.2 minutes

The calculated average service time for vehicles valeted from the on-site porte-cochere 3.7 minutes for valet drop-off and 4.2 minutes for valet pick-up. However, to provide a conservative analysis, a service time of 4.0 minutes for valet drop-off and 5.0 minutes for valet pick-up was used. Processing times include the time for the exchange between the driver and valet attendants and time to unload and load baggage is assumed for all vehicles valeted. Note that this results in a conservative analysis. Detailed trip length calculations are included in Attachment C.

If the coefficient of utilization (average service rate/valet attendant service capacity) is greater than one (> 1), the calculation methodology does not yield a finite queue length. This result indicates overcapacity conditions for the valet area. The valet attendant service capacity is the number of total trips a valet attendant can make in a one-hour period multiplied by the number of valet attendants.

The analysis determined the required queue storage, M, which is exceeded P percent of the time. This analysis seeks to ensure that the queue length does not exceed the storage provided at a level of confidence of 95 percent (95%). Three (3) vehicle drop-off/pick-up spaces are provided for valet operations based on the attached site plan for the porte-cochere valet drop-off/pick-up located.

Valet Analysis

An iterative approach was used to determine the number of valet attendants required to accommodate the proposed redevelopment demand during the analysis hour and ensure that the 95th percentile valet queue does not extend beyond the designated valet service area. Detailed valet analysis worksheets are provided in Attachment D.

Results of the highest demand condition valet operations analysis demonstrate that nine (9) valet attendants would be required so that the vehicle drop-off/pick-up storage would not be exceeded.

VALET CONCLUSION

Based on the valet operations analysis performed, it was determined that the 95th percentile valet queues will not extend beyond the valet service area onto 17th Street. Based upon the conservative assumptions applied to the highest traffic demand condition, it was estimated that nine (9) valet attendants may be required during peak periods. It should be noted that projected vehicular volumes and estimated valet processing times were conservatively assumed in the analysis. If it is determined that valet processing times can be performed more efficiently and/or actual traffic volumes are lower than projected, a reduced number of valet attendants may be adequate to serve the site.



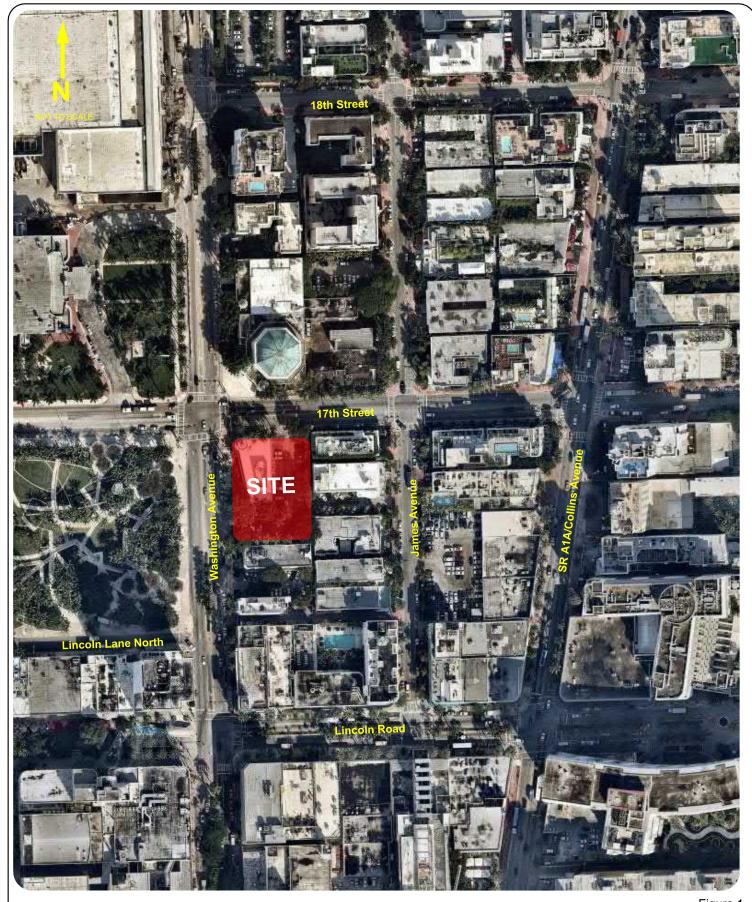
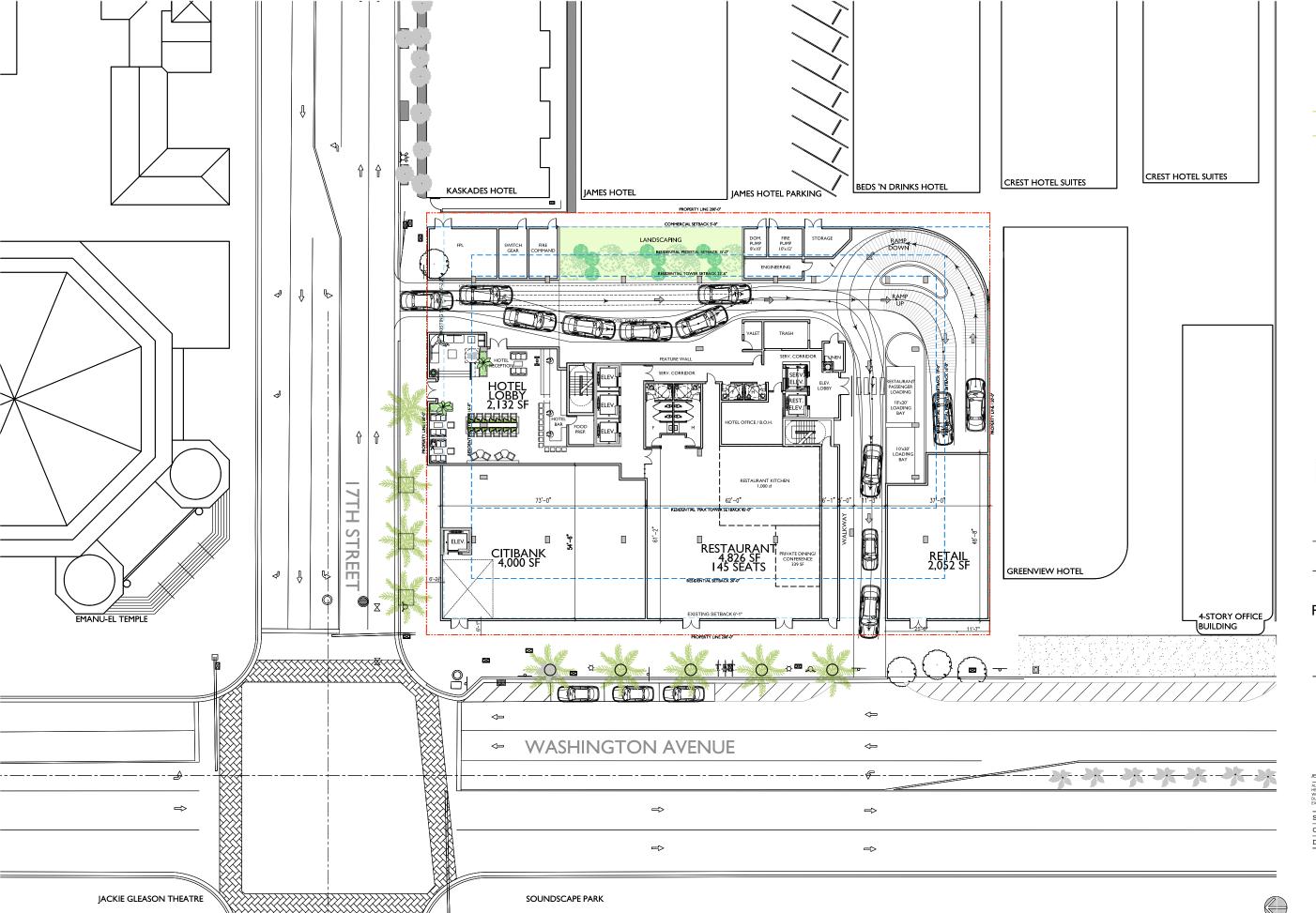




Figure 1 Location Map 1685 Washington Avenue Miami Beach, Florida



MCE ADCHITECTURE + DI ANNU

> 7580 NE 4th Court Studio 100 Miami, FL 33138

> > 1723

PROJECT:

1685 Washington

1685 Washington Ave Miami Beach, FL 33139



RUDY RICCIOTTI a r c h i t e c t e ARTISTIC ADVISOR

DRAWING:

PROPOSED SITE PLAN

NIFER MCCONNEY FLORIDA LIC# AR93044

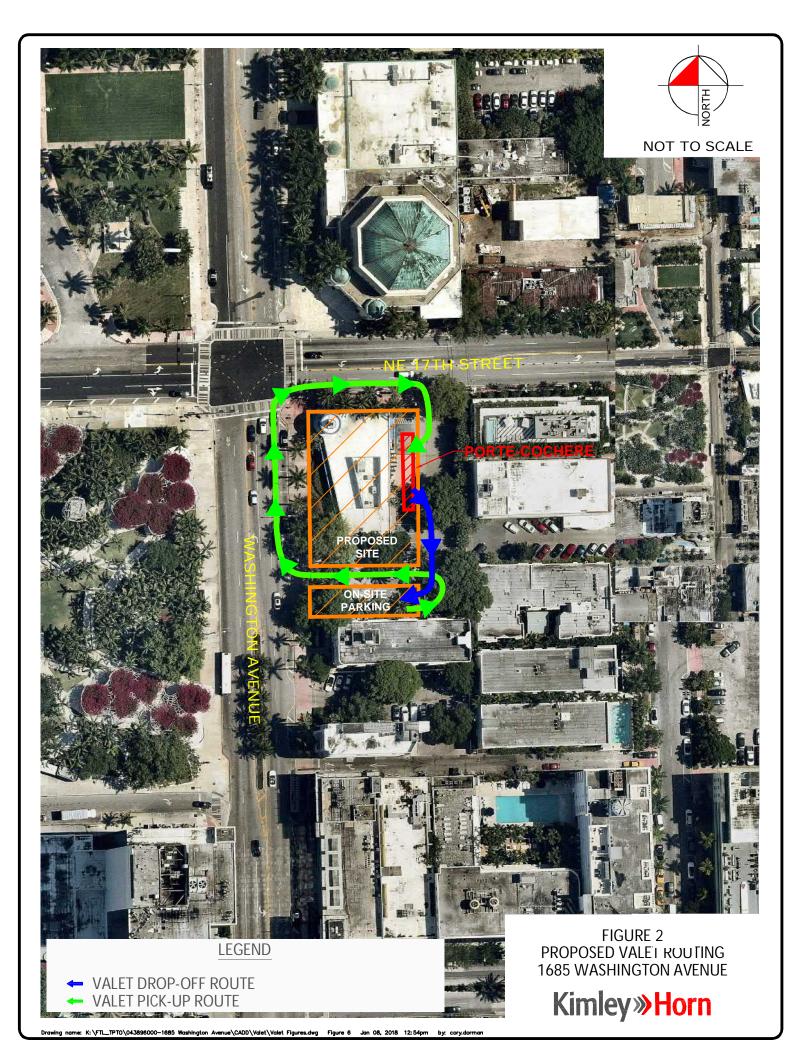
DRAWNISS AND WRITTEN MATERIAL APPEARING
IN CONSTITUTE THE ORIGINAL AND UNPUBLISHED
IX OF MGS ARCHITECTURE AND MAY NOT BE
LOATED, USED OR DISCLOSED WITHOUT THE
RESS WRITTEN COMSENT OF MGS ARCHITECTURE &
PLANNING, IXC. (20 JANNING, IXC.) (

 SCALE:
 N.T.S.

 CHECK:
 JMcG

 DATE:
 04/02/2018

A2.00B



Attachment B

Trip Generation

PM PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATION	DIRECTION ATION CHARACTERISTICS DISTRIBUTION IN THE NEW TITE Percent						GROS VOLUM			MODAL CTION ⁽¹⁾	BAS	SELINE .	TRIPS		RNAL TURE	DRI	VEWAY TE	RIPS		S-BY TURE		NET NEW TRIPS		
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	cent Out	ln	Out	Total	Percent	MR Trips	ln	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
_ 1	Drive-In Bank	10	912	6.644	ksf	50%	50%	68	68	136	20.0%	27	54	55	109	0.0%	0	54	55	109	35.0%	38	35	36	71
2																									1
3																									-
G 5																									
R 6																									
0 7																									
U 8 P 9								-	1																
10																									\vdash
1 1																									
12																									
13																									
15		1			1																				\vdash
	ITE Land Use Code	1	Ra	ite or Equa	ition		Total:	68	68	136	20.0%	27	54	55	109	0.0%	0	54	55	109	35.0%	38	35	36	71
	912			Y=20.45(X		•		(4)	•	•	•	•				•		-	•	•	•		•		

e: (1)Multimodal reduction based on census tract data from the US Census Bureau's Means of Transportation to Work survey.

(1) Multimodal reduction based on census tract data from the US Census Bureau's Means of Transportation to Work survey.

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

ITE TRIP GENERATION	CHARA	CTERIS	STICS		DIRECTIONAL GROSS DISTRIBUTION VOLUMES			-	MULTI REDUC		BAS	SELINE	TRIPS		RNAL TURE	DRI	VEWAY TE	RIPS	_	S-BY TURE		NET NEW TRIPS		
Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	cent Out	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
Hotel	10	310	150	room	51%	49%	44	42	86	20.0%	17	35	34	69	10.1%	7	31	31	62	0.0%	0	31	31	62
Shopping Center	10	820	2.429	ksf	48%	52%	17	18	35	20.0%	7	14	14	28	32.8%	9	10	9	19	34.0%	6	7	6	13
Valk-in Bank	10	911	4	ksf	51%	49%	25	24	49	20.0%	10	20	19	39	32.8%	13	14	12	26	0.0%	0	14	12	26
Quality Restaurant	10	931	295	seat	67%	33%	56	27	83	20.0%	16	45	22	67	34.3%	23	33	11	44	44.0%	20	18	6	24
						Total:	142	111	253	19.6%	50	114	89	203	25.6%	52	88	63	151	19.5%	26	70	55	125
SI	otel hopping Center alk-in Bank	Land Use Edition total 10 nopping Center 10 alk-in Bank 10 usalty Restaurant 10 ITE Land Use Code	Land Use Edition Code	Land Use Edition Code Scale	Land Use Edition Code Scale Units	Land Use Edition Code Scale Units In In In In In In In I	Land Use	Land Use Edition Code Scale Units In Out In	Land Use Edition Code Scale Units In Out In Out Land Use Edition Code Scale Units In Out In Out Total	Land Use Edition Code Scale Units In Out In Out Total Percent Out Out Total Percent Out Out Total Percent Out Out Total Percent Out Land Use Edition Code Scale Units In Out In Out Total Percent Trips	Land Use Edition Code Scale Units In Out In Out Total Percent Trips In In Out In In Out In In Out In In In In In In In I	Land Use Edition Code Scale Units In Out Total Percent Trips In Out Out Out Total Percent Trips In Out Out Out Out Total Percent Trips In Out Land Use Edition Code Scale Units In Out In Out Total Percent Trips In Out Total Out In Out Total Percent Trips In Out Total Total Percent Trips In Out Total T	Land Use Edition Code Scale Units In Out Total Percent Trips In Out Out In Out In Out In Out In Out In Out Out In Out In Out Out Out Out Out Out Out Out	Land Use Edition Code Scale Units In Out Total Percent Trips In Out In In Out Total Percent Trips In Out In In Out In In In In In In In I	Land Use Edition Code Scale Units In Out In Out Total Percent Trips In Out Total Out Total Percent Trips In Out Total Out Total Out Out Total Out O	Land Use Edition Code Scale Units In Out Total Percent Trips In Out Total Percent Total Percen	Land Use Edition Code Scale Units In Out Total Percent Trips In Out Total Out Total Percent Trips In Out Total Out Total Trips In Out Total Out Total Trips In Out Total Out Out Total Out Out Out Total Out Out Out Out Out Out Out Out Out	Land Use Edition Code Scale Units In Out Total Percent Trips In Out In Out Total Percent Total Percent Total Percent	Land Use Edition Code Scale Units in Out Total Percent Trips in Out Total P	Land Use Edition Code Scale Units In Out In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent Trips In Out Total Percent In Out Total Percent Trips In Out Total Percent In Out Total Percent Trips In Out In	Land Use Edition Code Scale Units In Out India Percent Trips In Out Total I			

	IN	OUT	TOTAL
PROPOSED EXTERNAL VEHICLE TRIPS	88	63	151
WALK-IN BANK SELF-PARK TRIPS	14	12	26
RETAIL TRIPS	10	9	19
PROPOSED HOTEL AND RESTAURANT VEHICLE TRIPS	64	42	106
42.6% TAXI/RIDESHARE TRIPS	27	18	45
PROPOSED VALET TRIPS (RETAIL, HOTEL, AND RESTAURANT)	47	33	80

NET NEW TRIPS

OUT TOTAL

IN

LN(Y) = 0.74*LN(X)+2.89

Y=12.13(X)

Y=0.28(X)

820

931

Internal Capture Reduction Calculations

Methodology for A.M. Peak Hour and P.M. Peak Hour based on the *Trip Generation Handbook*, 3rd Edition, published by the Institute of Transportation Engineers

Methodology for Daily based on the average of the Unconstrained Rates for the A.M. Peak Hour and P.M. Peak Hour

	SUMMARY (I	PROPOSED)				
	GR	OSS TRIP GENERATION				
	Landline	P.M. Peak Hour				
	Land Use	Enter	Exit			
INPUT	Office					
Ď	Retail	34	33			
<u> </u>	Restaurant	45	22			
=	Cinema/Entertainment					
	Residential					
	Hotel	35	34			
		114	89			
		INTERNAL TRIPS				
	Landille	P.M. Pe	ak Hour			
_	Land Use	Enter	Exit			
OUTPUT	Office	0	0			
<u> </u>	Retail	10	12			
	Restaurant	12	11			
7	Cinema/Entertainment	0	0			
0	Residential	0	0			
	Hotel	4	3			
		26	26			
	Total % Reduction	25.0	6%			
	Office					
7	Retail	32.8%				
OUTPUT	Restaurant	34.3%				
\supset	Cinema/Entertainment					
0	Residential					
	Hotel	10.	1%			
		EXTERNAL TRIPS				
	Land Use	P.M. Pe	ak Hour			
-		Enter	Exit			
)	Office	0	0			
4	Retail	24	21			
5	Restaurant	33	11			
OUTPU	Cinema/Entertainment	0	0			
	Residential	0	0			
	Hotel	31	31			
		88	63			



B08301

MEANS OF TRANSPORTATION TO WORK

Universe: Workers 16 years and over 2011-2015 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Tell us what you think. Provide feedback to help make American Community Survey data more useful for you.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

(105 + 183) / 909 = 31.68%

	Census Tract 42.06, Miami-Dade County, Florida				
	Estimate	Margin of Error			
Total:	909	+/-277			
Car, truck, or van:	524	+/-194			
Drove alone	509	+/-193			
Carpooled:	15	+/-16			
In 2-person carpool	8	+/-11			
In 3-person carpool	0	+/-13			
In 4-person carpool	0	+/-13			
In 5- or 6-person carpool	0	+/-13			
In 7-or-more-person carpool	7	+/-11			
Public transportation (excluding taxicab):	105	+/-77			
Bus or trolley bus	56	+/-51			
Streetcar or trolley car (carro publico in Puerto Rico)	0	+/-13			
Subway or elevated	49	+/-56			
Railroad	0	+/-13			
Ferryboat	0	+/-13			
Taxicab	7	+/-11			
Motorcycle	0	+/-13			
Bicycle	0	+/-13			
Walked	183	+/-123			
Other means	25	+/-32			
Worked at home	65	+/-42			

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

Workers include members of the Armed Forces and civilians who were at work last week.

1 of 2 09/21/2017

Attachment C

Valet Processing Time

Vehicle Processing Scenarios

		Tandem	Non-Tandem	
Mechanical Lift	Lift			
Layout	Ground Level	B	€ A o	Drive Aisle

1.	non-tandem) - Drop-Off Attendant drives onto lift	10
	Accordant drives onto int	10 sec
Vehicle A (ı	non-tandem) - Pick-Up	
1.		10
		10 sec
Vehicle B (r	non-tandem): No Vehicle A - Drop-Off	
1.	Attendant maneuvers in front of lift	10
2.	Attendant exits vehicle to lower lift	5
3.	Attendant lowers lift	30
4.	Attendant re-enters vehicle and drives onto lift	15
5.	Attendant exits vehicle	5
6.	Attendant raises lift	30
		95 sec
Vehicle B (r	non-tandem): No Vehicle A - Pick-Up	
1.	Attendant lowers lift	30
2.	Attendant enters vehicle and drives off of lift	15
3.	Attendant exits vehicle to raise lift	5
4.	Attendant raises lift	30
5.	Attendant re-enters vehicle	5
		85 sec
Vehicle B (r	non-tandem): Vehicle A Parked - Drop-Off	
1.	Attendant exits Vehicle B	5
2.	Attendant enters Vehicle A	5
3.	Attendant moves Vehicle A to drive aisle	10
4.	Attendant exits Vehicle A	5
5.	Attendant lowers lift	30
6.	Attendant re-enters Vehicle B and drives onto lift	15
7.	Attendant exits Vehicle B	5
8.	Attendant raises lift	30
9.	Attendant re-enters Vehicle A and drives into parking space	15
10.	Attendant exits Vehicle A	5
		125 sec
Vehicle B (r	non-tandem): Vehicle A Parked - Pick-Up	
1.	Attendant moves Vehicle A underneath lift to drive aisle	10
2.	Attendant exits Vehicle A	5
3.	Attendant lowers lift	30
4.	Attendant enters Vehicle B and drives off of lift	15
5.	Attendant exits Vehicle B to raise lift	5
6.	Attendant raises lift	30
7.	Attendant re-enters Vehicle A and drives into parking space	15
8.	Attendant exits Vehicle A	5
9.	Attendant re-enters Vehicle B	5

120 sec

Vehicle Processing Scenarios

е в/с	(Tandem): Vehicle A and B Parked - Drop-Off	
1.	Attendant exits Vehicle C	5
2.	Attendant enters Vehicle A	5
3.	Attendant moves Vehicle A to drive aisle	10
4.	Attendant exits Vehicle A	5
5.	Attendant enters Vehicle B and moves to drive aisle	15
6.	Attendant exits Vehicle B	5
7.	Attendant lowers lift	30
8.	Attendant re-enters Vehicle C and drives into lift	15
9.	Attendant exits Vehicle C	5
10.	Attendant raises lift	30
11.	Attendant re-enters Vehicle B and drives into parking space	15
12.	Attendant exits Vehicle B	5
13.	Attendant re-enters Vehicle A and drives into parking space	15
14.	Attendant exits Vehicle A	5
	(Tandem): Vehicle A and B Parked - Pick-Up Attendant moves Vehicle A underneath lift to drive aisle	10
2.		5
3.	Attendant moves Vehicle B underneath lift to drive aisle	10
	Attendant exits Vehicle B	_
4.	Attenuant exits venicle b	5
	Attendant lowers lift	5 30
	Attendant lowers lift	•
5.	Attendant lowers lift Attendant enters Vehicle C and drives of off lift to drive aisle	30
5. 6. 7.	Attendant lowers lift Attendant enters Vehicle C and drives of off lift to drive aisle	30 15
5. 6. 7. 8.	Attendant lowers lift Attendant enters Vehicle C and drives of off lift to drive aisle Attendant exits Vehicle C to raise lift Attendant raises lift	30 15 5
5. 6. 7. 8. 9.	Attendant lowers lift Attendant enters Vehicle C and drives of off lift to drive aisle Attendant exits Vehicle C to raise lift	30 15 5 30
5. 6. 7. 8. 9.	Attendant lowers lift Attendant enters Vehicle C and drives of off lift to drive aisle Attendant exits Vehicle C to raise lift Attendant raises lift Attendant re-enters Vehicle B and drives into parking space	30 15 5 30 15
5. 6. 7. 8. 9. 10.	Attendant lowers lift Attendant enters Vehicle C and drives of off lift to drive aisle Attendant exits Vehicle C to raise lift Attendant raises lift Attendant re-enters Vehicle B and drives into parking space Attendant exits Vehicle B	30 15 5 30 15 5
5. 6. 7. 8. 9. 10. 11.	Attendant lowers lift Attendant enters Vehicle C and drives of off lift to drive aisle Attendant exits Vehicle C to raise lift Attendant raises lift Attendant re-enters Vehicle B and drives into parking space Attendant exits Vehicle B Attendant re-enters Vehicle A and drives into parking space	30 15 5 30 15 5



Klaus Model G61 Vehicle lift Processing time:

- 7.5 HP Power Pack
- 12 Liters per Minute Valves
- Raising Lift Platform < 30 seconds (With Vehicle)
- Lowering Lift Platform < 30 seconds (With Vehicle)

When operating Klaus Model G61 Vehicle Lifts with 7.5 HP Power Pack and 12 Liters per Minute Valves, valet can expect the time required to raise platform (With Vehicle) to be no longer than 30 seconds and the time required to lower platform (With Vehicle) no longer than 30 seconds.

Bruce B. Roden Jr.

KLAUS Parking Systems Atlantic, Inc.

Brus B. Reder J

Vice President

1685 Washington Avenue On-Site Parking Calculated Average Travel Time								
VALET DROP-OFF								
VEHICLE TRAVEL TIME	VALET ATTENDANT TRAVEL TIME							
Travel Times (Assume	10 mph speed)	Travel Times (Assume	5 ft/s speed)					
To Valet Garage (In vehic	Return from Valet Garage (Walk/Run) to Valet Area							
Distance	Travel Time	Distance	Travel Time					
0.09 mile	es 0.6 minutes	0.02 mile	es 0.4 minutes					
Controlled Delay* 1	.0 Minutes							
Average Mechanical-Lift Processing Time 1								
Total Time 3	.7 Minutes							

1685 Washington Avenue On-Site Parking Calculated Average Travel Time								
	VA	ALET PICK-UP						
VALET ATTENDANT TRAV	VALET ATTEN	IDANT TRAVEL TIME						
Travel Times (Assume	5 ft/s sp	peed)	Travel Times (Assume	10 mph speed)				
To Valet Garage (Walk/Run	Return from Valet Garage (In Vehicle) to Valet Are							
Distance	Trave	l Time	Distance	Travel Time				
0.02 n	niles	0.4 minutes	0.19 mil	es 1.2 minutes				
Controlled Delay*	1.0 Minutes							
Average Mechanical Lift Processing Time	1.6 Minutes							
Total Time	4.2 Minutes							
Total Time	4.2 Williates							

Attachment D

Valet Analysis

1685 Washington Avenue

Highest Demand Condition P.M. Peak Hour

			Hi	ghest Demand	Condition P.M	/I. Peak Hou	r			
Arrival Rate	IN	OUT								
	47	33	veh/hr		Numbe	r of Valet At	tendants (N) :	=	9	
			<u> </u>			Level of	Confidence :	=	0.95	
			<u></u>		S	torage Provi	ided On-Site	=	4	vehicles
Service Rate	IN	OUT			Total Entering	and Exiting	Vehicles(q)	=	80	veh/hr
	4.00	5.00	mins/veh	Service Cap	acity per N (60		,		3.60	veh/hr/pos
	'.			·			vice Rate (t) :		4.41	mins/veh
							rho (t/Q) :	= 0	.654	
			N			N-1				
			1			0	P(n=0):	=	1.000	
			2			1	P(n=1)=		5.883	
			3			2	P(n=2):	= -	17.307	
			4			3	P(n=3):	= 3	33.941	
			5			4	P(n=4):	= 2	19.921	
			6			5	P(n=5):	=	8.740	
			7			6	P(n=6):	= 5	57.598	
			8			7	P(n=7):	= 2	18.410	
							P(0) :	= 0	.27%	
Service 7	Γime =	4.41	mins/veh							
		Expected	d (avg.) numbe	er of vehicles in	n the system	E(m)=	0.34			
	E	Expected (a	avg.) number o	f vehicles wait	ing in queue	E(n)=	6.22			
				Mean time	in the queue	E(w)=	0.25	mins		
				Mean tin	ne in system	E(t)=	4.67	mins		
			Proportion of	of customers w	vho wait (P) (E	E(w) > 0) =	17.89%			
		Prob	pability of a que		` ' '	` ' '	5.00%			
(Queue	length whic	ch is exceeded	5.00%	of the times is	equal to	1.8	vehicle	S	

Attachment C Updated Maneuverability Analysis



MEMORANDUM

To: Josiel Ferrer, E.I., City of Miami Beach

Firat Akcay, City of Miami Beach

From: Adrian K. Dabkowski, P.E., PTOE 💋

EAK

Date: April 26, 2018

Subject: 1685 Washington Avenue Redevelopment

Miami Beach, Florida Maneuverability Analysis

Kimley-Horn and Associates, Inc. has prepared a maneuverability analysis for the 1685 Washington Avenue redevelopment. The areas included in the analysis include the on-site porte-cochere, parking garage, and loading areas. The analysis was performed using Transoft Solutions Inc.'s *AutoTurn 10.2* software which applies vehicle turning templates consistent with American Association of State Highway and Transportation Officials' (AASHTO), *A Policy on Geometric Design of Highways and Streets*, 2011. The analysis was prepared using passenger car (P) design vehicle for the porte-cochere and parking garage areas. Delivery vans comparable to P design vehicles will be used for deliveries and loading activities. The following summarizes the results of this analysis.

Porte-cochere

Access to the site's porte-cochere is provided by a left-in/right-in driveway from 17th Street along the north side of the property and a right-out only driveway along the west side of the property onto Washington Avenue. A P design vehicle will be able to maneuver into and through the porte-cochere area without conflicting with by-passing traffic, refer to Figure 1 Attachment A.

Parking Garage and Loading Area Access

Access to the parking garage will be provided via an entry and exit ramp along the south side of the property. A P design vehicle will be able to maneuver into and through the parking garage without conflicting with oncoming traffic, refer to Figure 2 in Attachment A. Delivery vans, comparable to P vehicles, will be used for loading activities at the site and will be able to maneuver through the parking garage, site drive aisles, and loading areas, refer to Figures 3, 4, 5, and 6. Note that the westernmost loading bay on 2nd level will require the delivery vehicle to make a multi-point turn to exit the space.

Note that refuse receptacles will wheeled out to either 17th Street or Washington Avenue for waste and trash pick-up.

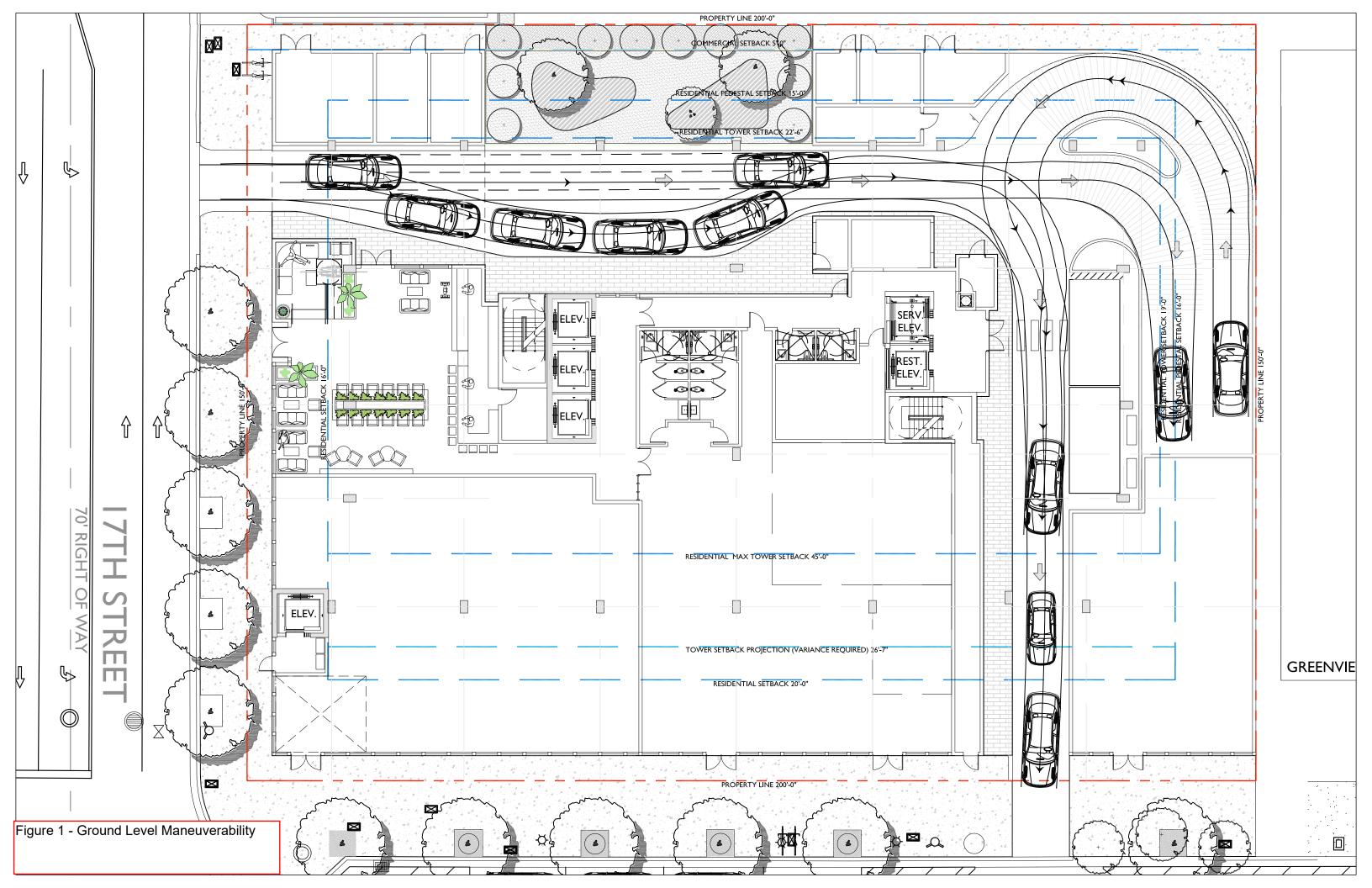
Conclusion

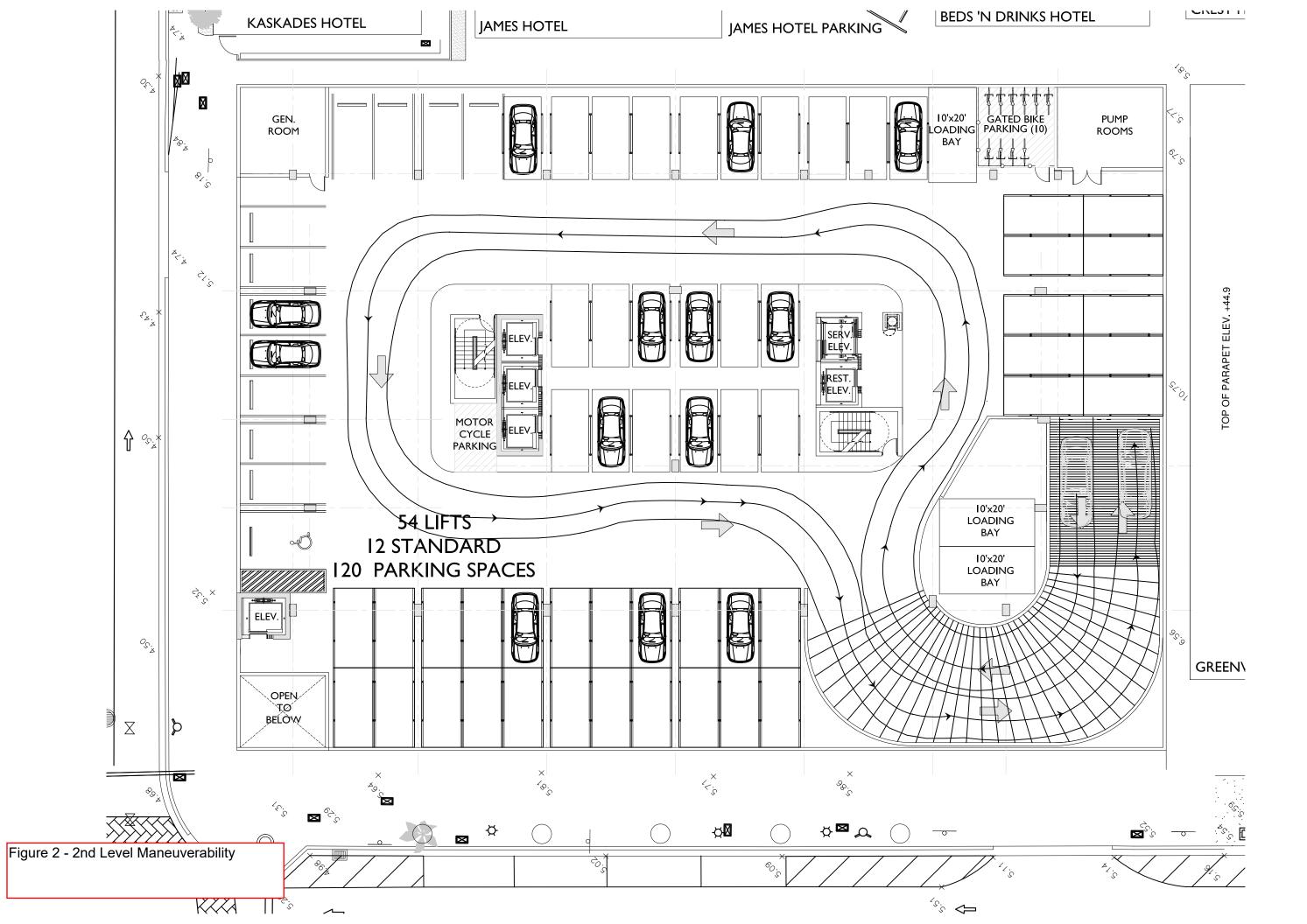
In conclusion, passenger vehicles and delivery van traffic will be able to ingress and egress from the site's porte-cochere and parking garage without conflicting with oncoming traffic.

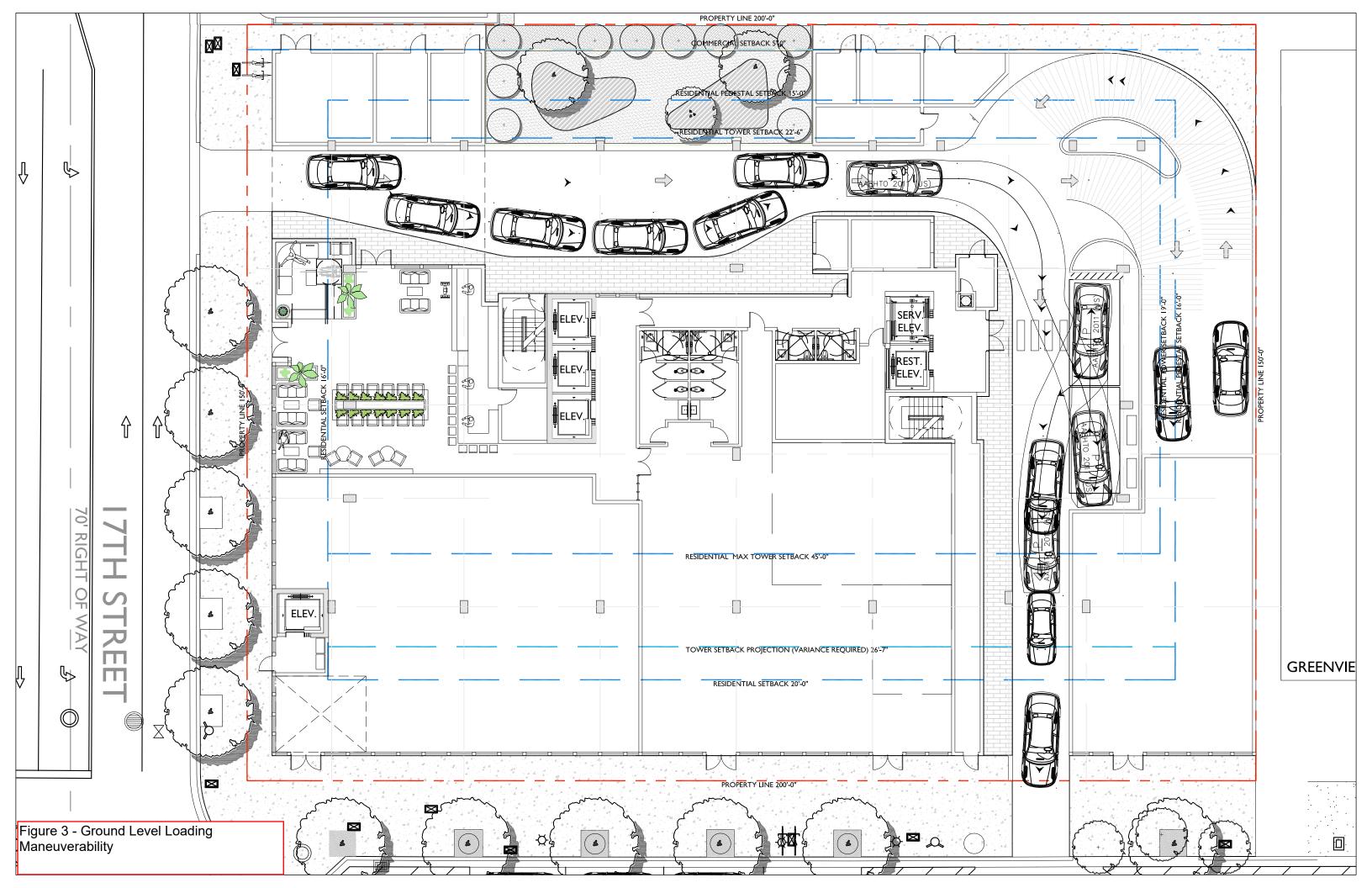
K:\FTL_TPTO\043896000-1685 Washington Avenue \Correspondence\memo\1685 Washington Avenue - Maneuverability Analysis 04 26 18.docx

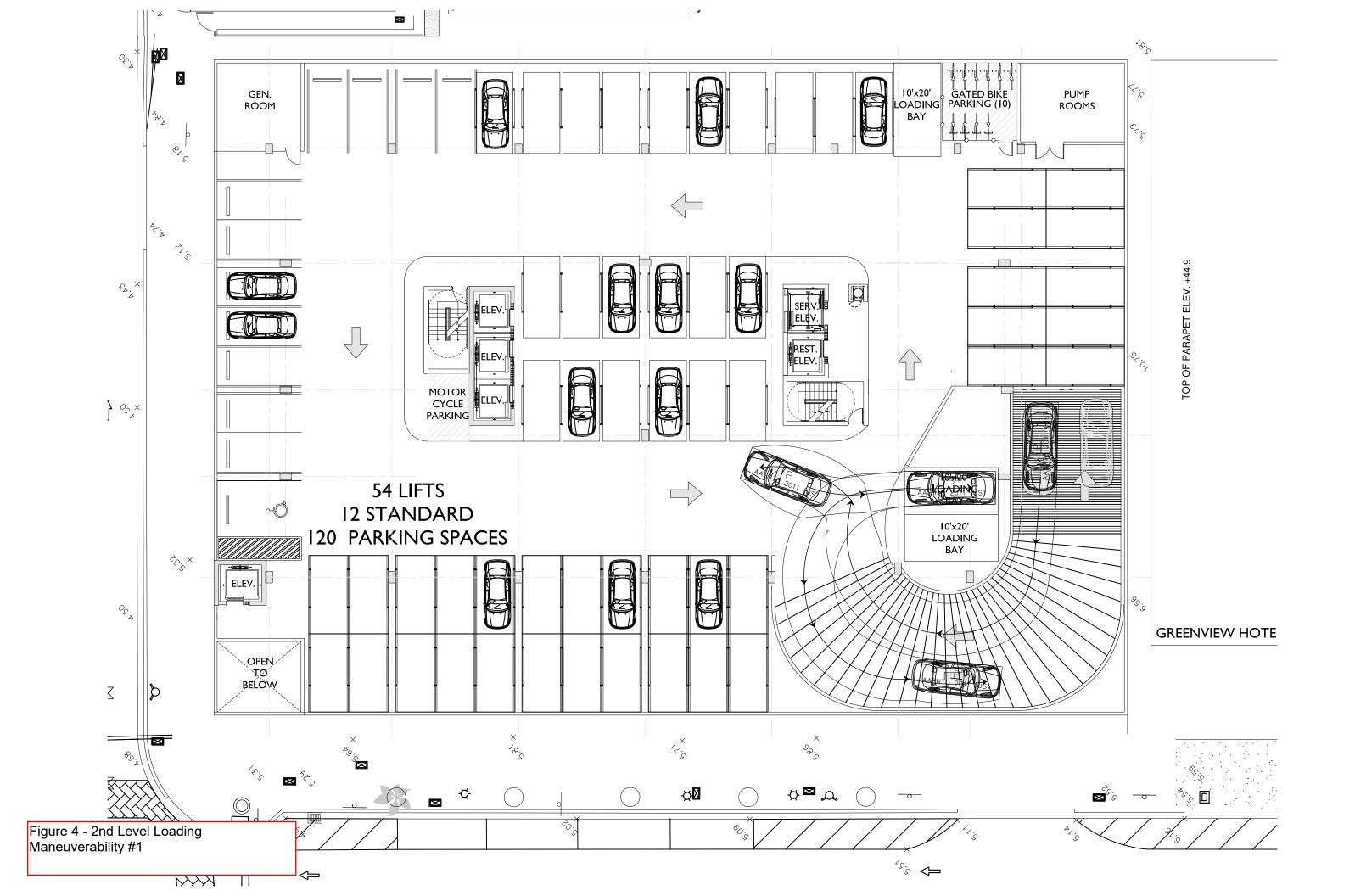
Attachment A

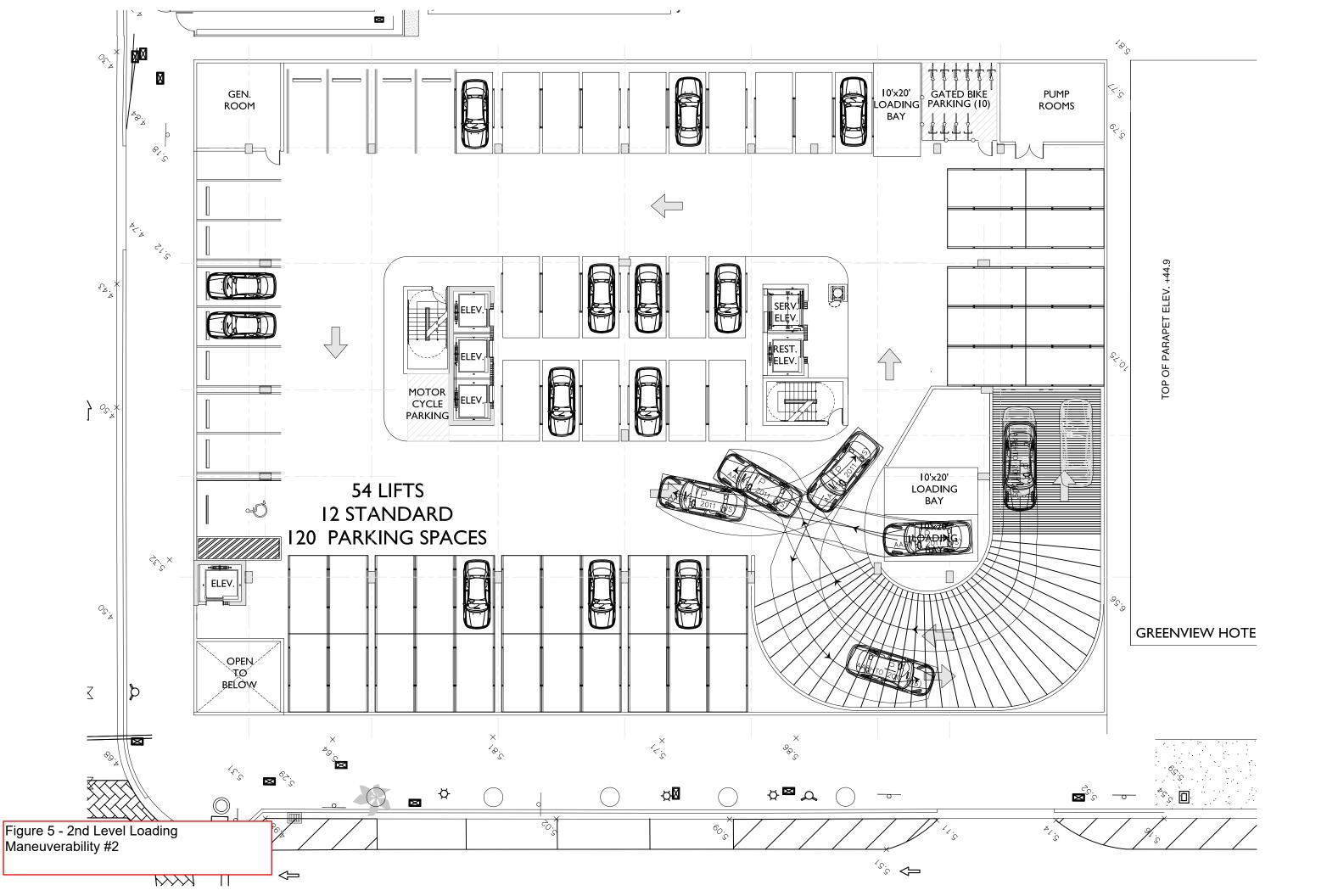
Maneuverability Plots

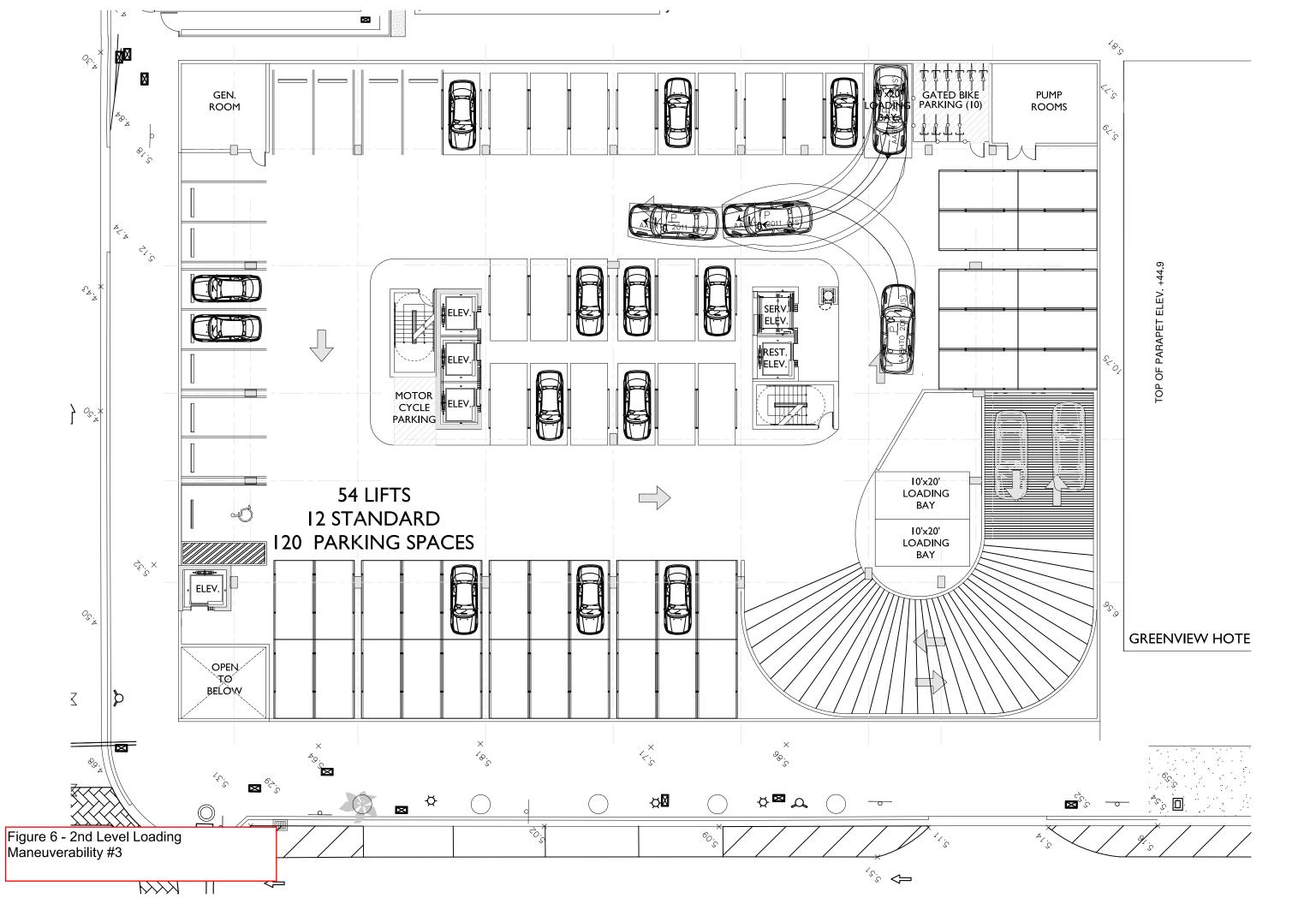












1685 Washington Avenue, Miami Beach, Florida Specimen Tree Arborist Report



Prepared for:

Christopher Cawley 780 Northeast 69th Street, Suite 1106 Miami, Florida 33138 (786) 534-5327 chris@cristophercawley.com

Submitted by:

Bartlett Tree Experts

Jeremy T. Chancey, Commercial Arborist Representative, Local Manager ASCA Registered Consulting Arborist #646 ISA Certified Arborist #FL-0762A ISA Tree Risk Qualified Certified Landscape Inspector #2007-007

Kristopher Ratliff ISA certified Arborist # FL-6512A TRAQ Qualified / BIS Specialist

TABLE OF CONTENTS

- EXECUTIVE SUMMARY
- TREE SURVEY
- TREE TABLE all TREES
- DISCUSSION
- PHOTOS

1685 Washington Avenue, Miami Beach, Florida SPECIMEN TREE REPORT

April 26, 2018

Christopher Cawley 780 Northeast 69th Street, Suite 1106 Miami, Florida 33138 (786) 534-5327

Dear Mr. Cawley,

Thank you for allowing Bartlett Tree Experts the opportunity to review the specimen trees located at 1685 Washington Avenue in Miami Beach, Florida.

We found eight shade trees on the property. This report details those eight trees found there. The tree numbers are 13, 14, 15, 20, 34, 39, 40, and 41. Four of these trees are in poor condition and the remaining four trees are in fair condition. We have provided photographs and more details of the trees herein. We utilized the tree disposition plans provided by your office and we maintained the same tree numbering.

If you have any questions, please feel free to contact me at the office number or my cell phone at (954) 612-2500. Thank you again for this opportunity.

Best regards,

Jeremy T. Chancey, Consulting Arborist ASCA Registered Consulting Arborist #646 ISA Certified Arborist #FL-0762A ISA Tree Risk Qualified Certified Landscape Inspector #2007-007

Kristopher Ratliff, Inventory Arborist ISA Certified Arborist # FL-6512A TRAQ Certified BIS Specialist

EXECUTIVE SUMMARY

Bartlett Tree Experts conducted a review of eight trees at 1685 Washington Avenue, Miami Beach, Florida. The attributes that we collected included size, condition class, and observed defects.

The trees have been numbered to match the tree survey. Four of the trees are mahogany trees (*Swietenia mahagoni*). Two trees are black olives (*Bucida buceras*), and one is a live oak (*Quercus virginiana*). There is one shrub a viburnum (Viburnum adoxaceae), number four, and the remaining tree is a laurel oak, (Quercus laurifolis), of these trees three of the mahogany # 15, 20, 39 are in poor condition as well as one of the black olives #14. All four of the other trees, one mahogany #40, one black olive #34, one live oak #13, and the viburnum #41 are in fair condition.

Understanding of Inventory Constraints

It is important for the tree owner or manager to know and understand that all trees pose some degree of risk from failure or other conditions. The information and recommendations within this report have been derived from the level of tree risk assessment identified in this report, using the information and practices outlined in the *International Society of Arboriculture's Best Management Practices for Tree Risk Assessment*, as well as the information available at the time of the inspection. However, the overall risk rating, the mitigation recommendations, or any other conclusions do not preclude the possibility of failure from undetected conditions, weather events, or other acts of man or nature. Trees can unpredictably fail even if no defects or other conditions are present. It is the responsibility of the tree owner or manager to schedule repeat or advanced assessments, determine actions, and implement follow up recommendations, monitoring and/or mitigation.

Bartlett Tree Experts can make no warranty or guarantee whatsoever regarding the safety of any tree, trees, or parts of trees, regardless of the level of tree risk assessment provided, the risk rating, or the residual risk rating after mitigation. The information in this report should not be considered as making safety, legal, architectural, engineering, landscape architectural, land surveying advice or other professional advice. This information is solely for the use of the tree owner and manager to assist in the decision making process regarding the management of their tree or trees. Tree risk assessments are simply tools which should be used in conjunction with the owner or tree manager's knowledge, other information and observations related to the specific tree or trees discussed, and sound decision making.

1685 Washington Avenue Tree Table

4/25/2018	1685 Washington Av	enue Miami Beach ,FL						
TREE #	COMMON NAME	BOTANICAL NAME	HEIGHT (ft)	WIDTH (ft)	DBH (in)	COND %	CONDITION	OBSERVATIONS
13	Live Oak	Quercus virginiana	30	22	14	65	FAIR	Lean, uneven crown, girdling roots, codominant leaders, burried root collar
14	Black Olive	Bucida buceras	40	36	24	45	POOR	Wound in stem, seam, poor structure, codominant leaders, storm damage
15	Mahogany	Swietenia mahagoni	45	46	34	40	POOR	Poor structure, severe girdling roots, multiple pruning wounds, dieback
20	Mahogany	Swietenia mahagoni	44	38	32 @ 2ft	40	POOR	Two pruning wounds south side, codominant leaders, wound in leader
34	Black Olive	Bucida buceras	45	40	21	50	FAIR	Severe girdling roots, rubbing limbs, codominant leaders, wounded roots
39	Mahogany	Swietenia mahagoni	45	16	28 @ 3ft	40	POOR	Topped, poor brach structure, supressed growth
40	Mahogany	Swietenia mahagoni	45	58	35	60	FAIR	Poor structure, severe girdling roots, over extended branches,
41	Viburnum	Viburnum odoratissimum var. awabuki	25	18	multi	50	FAIR	Suppressed growth, girdling material, overhead wires
	* I certify that all the statements of fact in this evaluation are true, complete, and correct to the best of my knowledge and belief, and that they are made in good faith.							e and belief,
	Kristopher Ratliff ISA Certified Arborist # FI-6512 A							

Discussion

Tree number 13

Live oak with a height of 30 feet and a width of 22 feet .The diameter of the tree at breast height is 14 inches. This tree is in fair condition with a 65% health rating. The tree has an uneven crown and a lean, it also has codominant leaders as well as some girdling roots and a buried root collar.

Tree number 14

Black olive, poor condition with a 45% health rating. The tree is 40 feet tall with a width of 36 feet. The diameter at breast height was 24 inches. This tree has a large wound on the stem as well as a seam on the base of the stem. Structural issues were noted including, codominant leaders. Storm damage was evident.

Mahogany, poor condition with a 40% health condition. The tree is 45 feet tall and 46 feet wide. The diameter measured at breast height was 34 inches. The tree has poor structure as well as severe girdling roots, multiple large pruning wounds, die back and suppressed growth due to the confined planting area.

Tree number 20

Mahogany, poor condition with a 40% health condition. The tree is 44 feet tall and 38 feet wide, it has a diameter of 32 inches taken at two feet above grade due to growth conditions of the codominant stems and where they originate. This tree has many defects, a buried root collar, and two large pruning wounds on the south side of the tree. There is also a large wound on the branch at about 15 feet above grade level as well as poor tree structure.

Tree number 34

Black olive, fair condition with a 50% health condition. It has a height of 45 feet and is 40 feet wide with a diameter of 21 inches measured at breast height. The defects in this tree include severe girdling roots, rubbing limbs, codominant leaders as well as some wounded roots near sidewalk area.

Tree number 39

Mahogany, poor condition with a 40% health condition. It has a height of 45 feet and is 16 feet wide. The diameter of this tree 28 inches that was measured at three feet above grade due to codominant leaders originating at approximately three and one-half feet. It has been severely topped, has very poor branch structure and the growth is suppressed due to growing conditions and lack of space.

Tree number 40

Mahogany, fair condition with a 60% health condition. It has a height of 45 feet and is 58 feet wide with a trunk diameter of 35 inches. This trees issues include but are not limited to poor structure, severe girdling roots, over extended branches, and included bark as well as a uneven crown due to overhead wires on east side that resulted in directional pruning.

Tree number 41

Viburnum, fair condition with a 50% health condition. It has a height of 25 feet as well as a width of 18 feet. The diameter of the stems are 5 inches and 4 inches taken at breast height. This tree has suppressed growth conditions, overhead wires, and girdling roots.

Photos



View looking North East



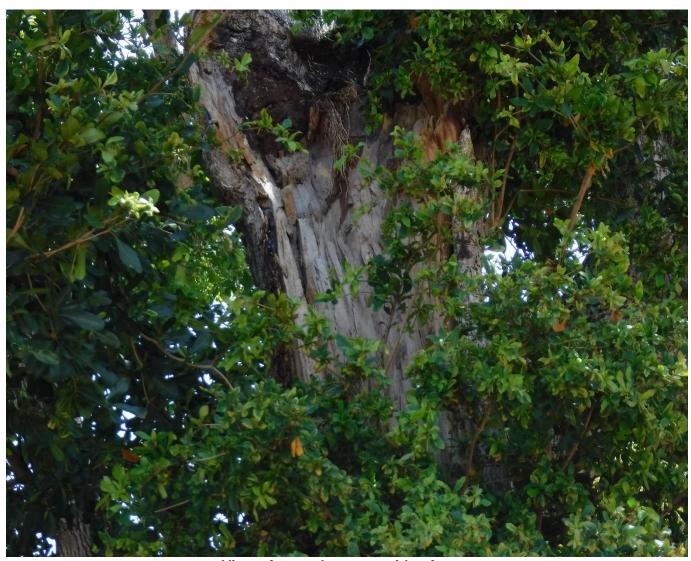
View of codominant leaders in tree 13



Girdling root on tree 13



View from west side



View of wound on west side of stem



Picture of tree # 14 poor branch structure



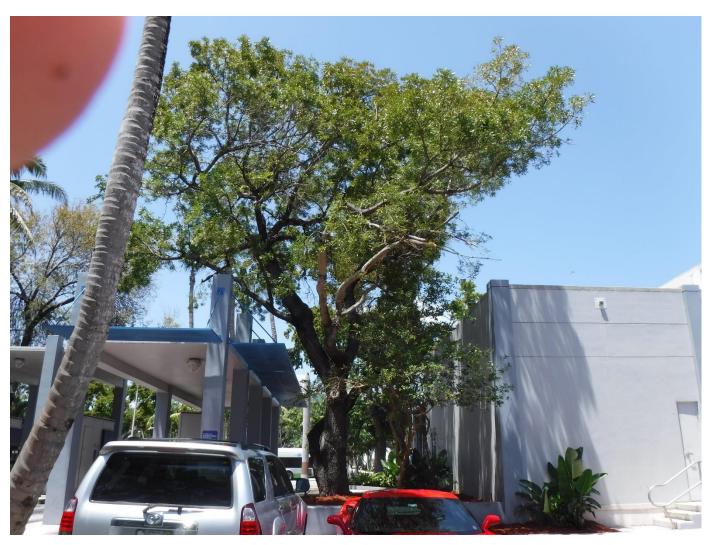
Tree 15 poor structure

Tree 15 girdling roots.





Wound in leader of tree 15 on north side



View from east side



Buried root collar of tree #20

Large pruning wounds on tree # 20



View from south

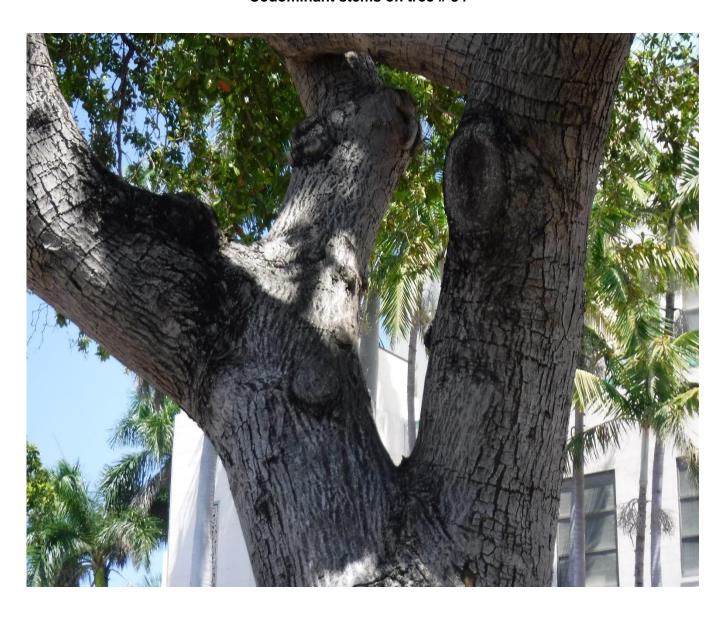
Rubbing limbs in tree #34





Girdling roots on tree # 34

Codominant stems on tree # 34





View from northwest of poor location



View of topping cuts on tree # 39

Girdling roots on tree # 39





View from north side of tree # 40 with wires along east side

Overextended branches on west side of tree # 40

