

June 1, 2020

Firat Akcay
City of Miami Beach
Transportation Department
1688 Meridian Avenue, Suite 801
Miami Beach, Florida 33139

Re: 1575 Alton Road Traffic Assessment Miami Beach, Florida

Dear Mr. Akcay:

Kimley-Horn and Associates, Inc. has performed a traffic assessment for the proposed redevelopment located at 1575 Alton Road in Miami Beach, Florida. The site proposed for redevelopment is currently occupied by a 11,849 square-foot automobile service and tire shop. The proposed redevelopment includes a 102-seat restaurant, 207-seat restaurant, and 770 square-foot bakery. Note the existing automobile service and tire shop is not currently operational and will be demolished as part of the proposed redevelopment. Note that no self-parking will be provided on-site. Therefore, all vehicular traffic with the exception of taxi/rideshare vehicles will be valeted. A project location map and site plan are included in Attachment A-1. The traffic assessment is consistent with the requirements outlined by the City of Miami Beach. Note that a complete traffic study with the remaining required analyses will be prepared as part of the response to City comments. Methodology correspondence is included in Attachment B-1. The traffic assessment includes a trip generation analysis, trip distribution and assignment, multimodal evaluation, site loading operations plan, transportation demand management (TDM) strategies, valet analysis, and capacity analysis. The following sections summarize the analysis.

TRIP GENERATION

Trip generation calculations for the proposed redevelopment were performed using Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 10th Edition. The trip generation for the proposed redevelopment was determined using ITE LUC 931 (Quality Restaurant) and 939 (Bread/Donut/Bagel Shop without Drive-Through Window).

A multimodal (public transit, bicycle, and pedestrian) factor based on US Census *Means of Transportation to Work* data was reviewed for the census tracts in the vicinity of the site. The US Census data indicated that there is a 50.2 percent (50.2%) multimodal factor within the vicinity of the site. However, to provide a conservative analysis, a multimodal factor of 20.0 percent (20.0%) was applied to the trip generation calculations to account for the urban environment in which the project site is located. It is expected that a portion of employees, guests, and patrons will choose to walk, bike, or use public transit to and from the site. Miami-Dade Transit (MDT) and the City of Miami Beach provide transit service within the vicinity of the proposed redevelopment via the following routes:

 MDT Route 113/M provides transit service along Alton Road within the vicinity of the proposed redevelopment with approximately 60-minute headways during the weekday P.M. peak hour and weekend peak hour.



- MDT Route 119/S provides transit service along Alton Road within the vicinity of the proposed redevelopment with approximately 12-minute headways during the weekday P.M. peak hour and approximately 15-minute headways during the weekend peak hour.
- City of Miami Beach South Beach Loop provides transit service along Alton Road within the vicinity of the proposed redevelopment with approximately 20-minute headways during the weekday P.M. peak hour and weekend peak hour.

Pass-by capture trip rates were determined based on average rates provided in the ITE's Trip Generation Handbook, 3rd Edition. The average pass-by rate for the restaurant land use is 44.0 percent (44.0%) during the weekday P.M. peak hour.

The project is expected to generate 48 net new vehicle trips during the A.M. peak hour, 57 net new vehicle trips during the P.M. peak hour, and 112 net new vehicle trips during the weekend (Saturday) peak hour of generator. Detailed trip generation calculations and transit information are included as Attachment C-1.

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 Transportation Planning Organization's (TPO's) 2045 Long Range Transportation Plan Directional Trip Distribution Report. The trip distribution for the anticipated build-out year of 2022 was interpolated from the 2015 and 2045 data. The project is located within TAZ 642. The cardinal distribution is shown in Table 1. The detailed cardinal distribution is provided in Attachment D-1.

Table 1: Cardinal	Trip Distribution
Cardinal Direction	Percentage of Trips
North-Northeast	16.0%
East-Northeast	11.0%
East-Southeast	1.0%
South-Southeast	10.0%
South-Southwest	4.0%
West-Southwest	26.0%
West-Northwest	18.0%
North-Northwest	14.0%
Total	100.0%

MULTIMODAL EVALUATION

Existing and programmed bicycle and pedestrian amenities were evaluated along Alton Road between 15th Street and Lincoln Road, along 16th Street between West Avenue and Lenox Avenue, and at the intersection of Alton Road at 16th Street. A detailed evaluation of bicycle and pedestrian amenities is provided below:



Alton Road between 15th Street and Lincoln Road

Alton Road between 15th Street and Lincoln Road functions as a four-lane, divided roadway with onstreet parking located along the east and west sides of the roadway. Sidewalk widths vary from approximately 11 feet to 16 feet along the east side of the roadway and from approximately five (5) feet to 16 feet along the west side of the roadway. Additionally, sharrows are provided in the northbound and southbound directions.

16th Street between West Avenue and Lenox Avenue

16th Street between West Avenue and Lenox Avenue functions as a two-lane, undivided roadway with on-street parking located along the north and south sides of the roadway. Sidewalk widths vary from approximately five (5) feet to nine (9) feet along the north and south sides of the roadway. Additionally, dedicated bicycle lanes are provided in the eastbound and westbound directions. Note that the dedicated bicycle lanes along the north and south sides of 16th Street east of Alton Road are provided with green colored pavement. Further note that based on the *FY 2020 – 2024 Capital Budget and 5-Year Capital Improvement Plan,* protected bicycle lanes will be implemented along 16th Street between Washington Avenue and Bay Road as part of the *Flamingo Park Neighborhood Right-of-Way Improvement Project.*

Alton Road and 16th Street Intersection

The intersection of Alton Road and 16th Street operates under signal control and is located at the northwest corner of the proposed redevelopment. Special emphasis crosswalks and pedestrian signalization is provided at all the intersection approaches. Pedestrian signal push-button detection is provided the north and south leg crosswalks on 16th Street. Additionally, pedestrian ramps with truncated domes are provided at all corners of the intersection.

SITE LOADING OPERATIONS PLAN

Loading operations for deliveries and sanitation vehicles will be conducted within the existing one-way, northbound alley located along the east side of the proposed redevelopment. Loading vehicles will enter the alley along 15th Street and exit the alley along 16th Street. As all loading activities will occur within the alley, loading vehicles will not impact the external roadway network.

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 providing the following incentives including:

- Providing transit information within the site including route schedules and maps
- Providing secure bicycle parking (bicycle racks and lockers)

The applicant intends to make the site bicycle/pedestrian- and transit-friendly.

VALET SERVICE AND OPERATIONS ANALYSIS

The proposed redevelopment will be served by one (1) drop-off/pick-up area for valet operations. A valet operations queuing analysis was prepared for two (2) scenarios: i.) vehicle drop-off/pick-up area



located along the south/eastbound side of 16th Street just east of Alton Road and ii.) vehicle drop-off/pick-up area located along the east/northbound side of Alton Road just south of 16th Street. All vehicular traffic with the exception of taxi/rideshare vehicles will be valeted. The drop-off/pick-up areas will provide vehicle storage for approximately four (4) vehicles. It was assumed that three (3) spaces will be utilized for valet operations and one (1) space will be utilized for taxi/rideshare drop-off/pick-up. It is anticipated that all valet vehicles will be parked at the proposed 1212 Lincoln Road parking garage.

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.

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 95.0 percent (95.0%).

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.

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 either 16th Street or Alton Road. Valet operations were analyzed for the number of valet attendants and required vehicle stacking for the proposed redevelopment.

The valet analysis was prepared for the weekend (Saturday) peak hour of generator as it is the highest demand condition. The proposed redevelopment is expected to generate 112 vehicle trips during the weekend (Saturday) peak hour of generator. Please note that a 42.6 percent (42.6%) taxi/rideshare factor was applied to the trip generation estimates based on actual field observations from the Cadillac Hotel located at 3925 Collins Avenue to account for taxi/rideshare trips. Therefore, the project is expected to generate 64 valet trips during the weekend (Saturday) peak hour of generator.

16th Street Drop-off/Pick-up Area Valet Analysis

Valet drop-off vehicles will exit the valet drop-off/pick-up area, travel eastbound along 16th Street, southbound along Lenox Avenue, westbound along 15th Street, northbound along Alton Road, westbound along 16th Street and enter the 1212 Lincoln Road parking garage. To provide a conservative analysis, valet processing time to the 6th level of the parking garage was used. Note that it was assumed that the parking garage occupies levels 3 to 6. Valet pick-up vehicles will exit the



parking garage, travel eastbound along 16th Street and enter the valet drop-off/pick-up area. A graphic illustration of the proposed valet routes to and from the parking garage is provided in Attachment G-1.

Valet attendants will be stationed at the on-site valet drop-off/pick-up area. 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 in the 1212 Lincoln Road parking garage and return to the valet station. 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 valet drop-off/pick-up area for pick-up. 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 (0.5 minutes)
- Valet attendant drives vehicle from drop-off/pick-up area to parking garage (4.4 minutes)
- Valet attendant returns to valet station (2.3 minutes)
- Total service rate: 7.2 minutes

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

- Valet attendant proceeds to the parking garage to retrieve the vehicle (2.3 minutes)
- Valet attendant drives vehicle from parking garage to the drop-off/pick-up area (2.7 minutes)
- Exchange between valet attendant and driver (0.5 minutes)
- Total service rate: 5.5 minutes

The calculated average service time for vehicles valeted from the on-site drop-off/pick-up area is 7.2 minutes for valet drop-off and 5.5 minutes for valet pick-up. Processing times include the time for the exchange between the driver and valet attendants. Detailed travel time calculations are included in Attachment E-1.

Results of the highest demand condition valet operations analysis demonstrate that a maximum of ten (10) valet attendants would be required so that the vehicle drop-off/pick-up storage would not be exceeded. 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. Detailed valet analysis calculation worksheets are provided in Attachment E-1.

Alton Road Drop-off/Pick-up Area Valet Analysis

Valet drop-off vehicles will exit the valet drop-off/pick-up area, travel northbound along Alton Road, eastbound along 16th Street, southbound along Lenox Avenue, westbound along 15th Street, northbound along Alton Road, westbound along 16th Street and enter the 1212 Lincoln Road parking garage. To provide a conservative analysis, valet processing time to the 6th level of the parking garage was used. Note that it was assumed that the parking garage occupies levels 3 to 6. Valet pick-up vehicles will exit the parking garage, travel eastbound along 16th Street, southbound along Lenox Avenue, westbound along 15th Street, northbound along Alton Road, and enter the valet drop-off/pick-up area.



Valet attendants will be stationed at the on-site valet drop-off/pick-up area. 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 in the 1212 Lincoln Road parking garage and return to the valet station. 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 valet drop-off/pick-up area for pick-up. 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 (0.5 minutes)
- Valet attendant drives vehicle from drop-off/pick-up area to parking garage (5.1 minutes)
- Valet attendant returns to valet station (2.7 minutes)
- Total service rate: 8.3 minutes

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

- Valet attendant proceeds to the parking garage to retrieve the vehicle (2.7 minutes)
- Valet attendant drives vehicle from parking garage to the drop-off/pick-up area (4.3 minutes)
- Exchange between valet attendant and driver (0.5 minutes)
- Total service rate: 7.5 minutes

The calculated average service time for vehicles valeted from the on-site drop-off/pick-up area is 8.3 minutes for valet drop-off and 7.5 minutes for valet pick-up. Processing times include the time for the exchange between the driver and valet attendants. Detailed travel time calculations are included in Attachment E-1.

Results of the highest demand condition valet operations analysis demonstrate that a maximum of 12 valet attendants would be required so that the vehicle drop-off/pick-up storage would not be exceeded. 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. Detailed valet analysis calculation worksheets are provided in Attachment E-1.

INTERSECTION CAPACITY ANALYSIS

Existing Traffic

Existing turning movement count data were provided by the City of Miami Beach for the intersection of SR 907/Alton Road at 16th Street. Traffic data were collected on Thursday, January 23, 2020 and Saturday, January 25, 2020. Turning movement count data for the weekday P.M. peak period (4:45 P.M to 6:45 P.M.) and weekend (Saturday) peak period (7:30 P.M. to 9:30 P.M.) were utilized to determine existing conditions. The traffic volumes were collected in 15-minute intervals and the peak hour was determined. Turning movement counts also included pedestrian and bicycle data. Please note that the appropriate Florida Department of Transportation (FDOT) peak season factor of 1.03 was applied to the existing traffic volumes to account for peak season conditions. Existing signal phasing and timing patterns were obtained from Miami-Dade County Department of Transportation and Public



Works – Traffic Signals and Signs Division for the study intersection. The turning movement counts, FDOT peak season factor category report, and signal timing data are included in Attachment F-1.

Growth Rate Calculations

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 2015 and 2045 Florida Standard Urban Transportation Model Structure (FSUTMS) - Southeast Florida Regional Planning Model (SERPM). FDOT count stations referenced in this analysis include:

- Count Station #2542: SR 907/Alton Road 200 feet south of Venetian Causeway
- Count Station #8415: West Avenue 100 feet north of 12th Street
- Count Station #8566: 15th Street 200 feet east of Jefferson Avenue
- Count Station #8567: 16th Street 200 feet east of Meridian Avenue

The historic growth rate analysis based on FDOT count stations determined a linear growth rate of negative 3.38 percent (-3.38%) annually over the most recent five (5) years and negative 1.28 percent (-1.28%) annually over the most recent ten (10) years. The exponential growth trend yielded a growth rate of negative 3.97 percent (-3.97%) annually over the most recent five (5) years and negative 1.27 percent (-1.27%) annually over the most recent ten (10) years. The decaying exponential growth trend yielded a growth rate of negative 3.77 percent (-3.77%) annually over the most recent five (5) years and negative 1.75 percent (-1.75%) annually over the most recent ten (10) years. Based on the forecasted volumes obtained from the 2015 and 2045 FSUTMS SERPM, an annual growth rate of 0.61 percent (0.61%) was calculated in the vicinity of the redevelopment.

Therefore, to provide a conservative analysis, the highest growth rate of 0.61 percent (0.61%) was applied to existing traffic volumes to determine future background traffic volumes for the project's expected opening year of 2022. The worksheets used to analyze the historic growth trends and volume development worksheets are included in Attachment G-1.

Future Traffic Volumes

Future total traffic conditions are defined as the expected traffic conditions in the year 2022 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. Volume development worksheets and figures summarizing the existing volumes, future background volumes, trip distribution, trip assignment, and future total volumes are provided in Attachment H-1.

Analysis

The operating conditions at the intersection of SR 907/Alton Road and 16th Street were analyzed for four (4) scenarios (existing conditions, future background conditions, future total conditions with 16th street valet operations, and future total conditions with SR 907/Alton Road valet operations using Trafficware's *SYNCHRO 10* software, which applies methodologies outlined in the Transportation Research Board's (TRB's) *Highway Capacity Manual* (HCM) 6th Edition. Synchro worksheets for the study intersections are included in Attachment I-1. A summary of the intersection analysis for the weekday P.M. peak hour and weekend (Saturday) peak hour is presented in Table 2. As indicated in Table 2, the intersection of SR 907/Alton Road and 16th Street is expected to operate at LOS D under



existing conditions and at LOS E under future background and future total conditions during the weekday P.M. peak hour. Additionally, the intersection of SR 907/Alton Road and 16th Street is expected to operate at LOS D under existing conditions and at LOS F under future background and future total conditions during the weekend peak hour. Note that per the direction of the City of Miami Beach, an exclusive pedestrian phase was included as part of the signal operating plan for the intersection of SR 907/Alton Road and 16th Street under future background and future total conditions.

Table 2: Peak Hour Intersection Capacity Analysis											
Intersection	Traffic	Overall		Approac	ch LOS						
intersection	Control	LOS	EB	WB	NB	SB					
Exi	sting Conditions	(Future Bac	kground Co	onditions)							
[Future Total Conditions with 16th Street Valet] [Future Total Conditions with Alton Road Valet]											
	Weekd	ay P.M. Pea	ak Hour								
		D	D	F	С	В					
SR 907/Alton Road and	Signalized ⁽¹⁾⁽²⁾	(E)	(D)	(F)	(E)	(D)					
16 th Street	Signalizeu	[E]	[E]	[F]	[E]	[E]					
		{E}	{E}	{F}	{E}	{E}					
	Wee	kend Peak	Hour								
		D	D	F	С	В					
SR 907/Alton Road and	Signalized ⁽¹⁾⁽²⁾	(F)	(D)	(F)	(D)	(E)					
16 th Street	Signalized	[F]	[E]	[F]	[F]	[E]					
		{F}	{E}	{F}	{F}	{E}					

Notes:

CONCLUSION

The project is expected to generate 48 net new vehicle trips during the A.M. peak hour, 57 net new vehicle trips during the P.M. peak hour, and 112 net new vehicle trips during the weekend (Saturday) peak hour of generator.

Based on the multimodal evaluation, sidewalk widths vary from approximately five (5) feet to 16 feet within the vicinity of the proposed redevelopment. Additionally, dedicated bicycle lanes are provided along 16th Street and sharrows are provided along Alton Road within the vicinity of the proposed redevelopment. Furthermore, protected bicycle lanes are programmed for implementation along 16th Street within the vicinity of the proposed redevelopment.

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 providing the following incentives including:

- Providing transit information within the site including route schedules and maps
- Providing secure bicycle parking (bicycle racks and lockers)

Additionally, a valet operations analysis was conducted to determine the number of valet attendants and vehicle storage area required to accommodate the 95th percentile valet queue without extending beyond the valet service area onto 16th Street or Alton Road. Based upon the conservative assumptions applied to the highest traffic demand condition (Saturday peak hour of generator), it was estimated that a maximum of ten (10) valet attendants may be required at the 16th Street drop-off/pick-up area or a

⁽¹⁾HCM 2000 was utilized as HCM 6th Edition cannot analyze signalized intersections with an exclusive pedestrian phase (2)Signal timings optimized under future background and future total conditions to account for the exclusive pedestrian phase



maximum of 12 valet attendants may be required at the Alton Road drop-off/pick-up area 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.

Based on the intersection capacity analysis, the intersection of SR 907/Alton Road and 16th Street is expected to operate at LOS D under existing conditions and at LOS E under future background and future total conditions during the weekday P.M. peak hour. Additionally, the intersection of SR 907/Alton Road and 16th Street is expected to operate at LOS D under existing conditions and at LOS F under future background and future total conditions during the weekend peak hour. Note that per the direction of the City of Miami Beach, an exclusive pedestrian phase was included as part of the signal operating plan for the intersection of SR 907/Alton Road and 16th Street under future background and future total conditions.

If you have any questions regarding this analysis, please feel free to contact me.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

John J. McWilliams, P.E. Attachments

This document has been digitally signed and sealed by John Joseph McWilliams, P.E. on the date adjacent to the

John J McWilliams Date: 2020.06.01

Digitally signed by John J McWilliams 09:24:34 -04'00'

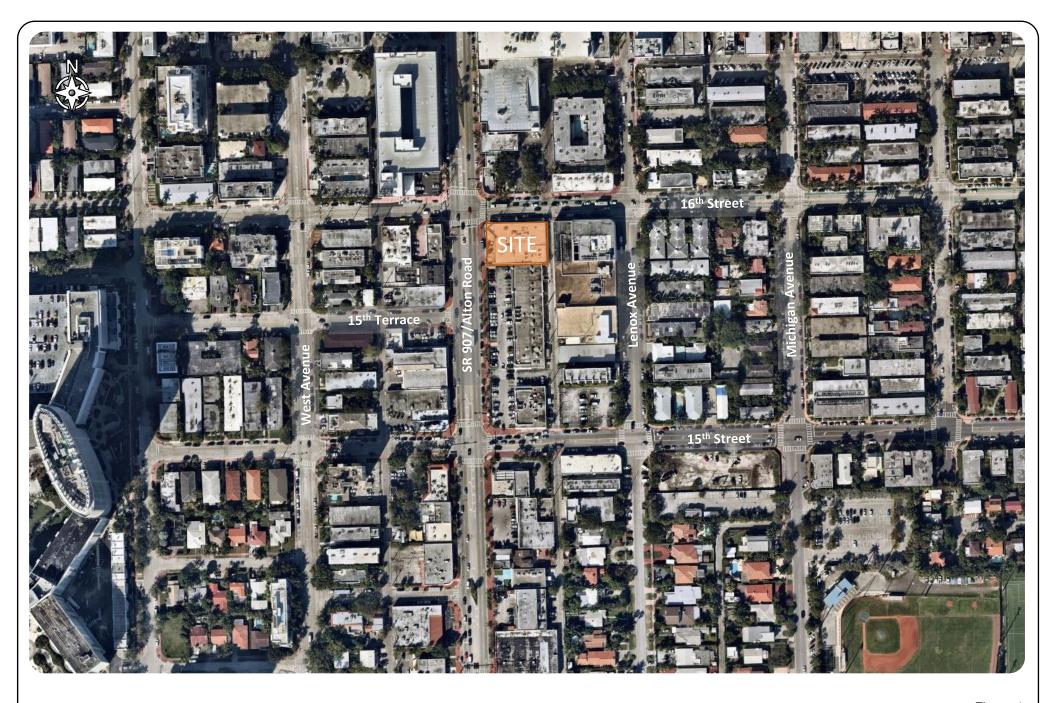
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

John J. McWilliams, P.E. Florida Registration Number 62541 Kimley-Horn and Associates, Inc. 600 North Pine Island Road, Suite 450 Plantation, Florida 33324 CA # 00000696

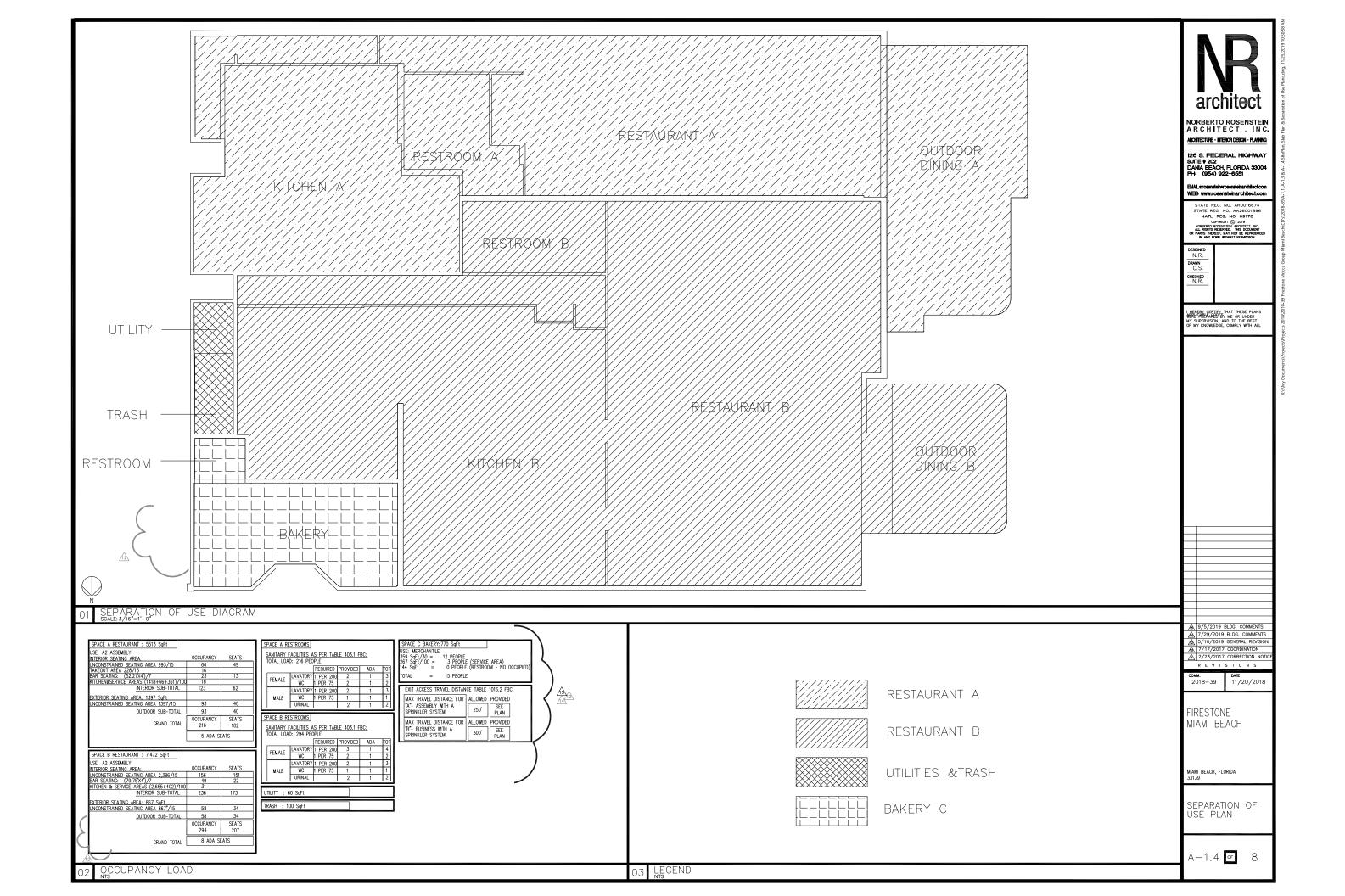
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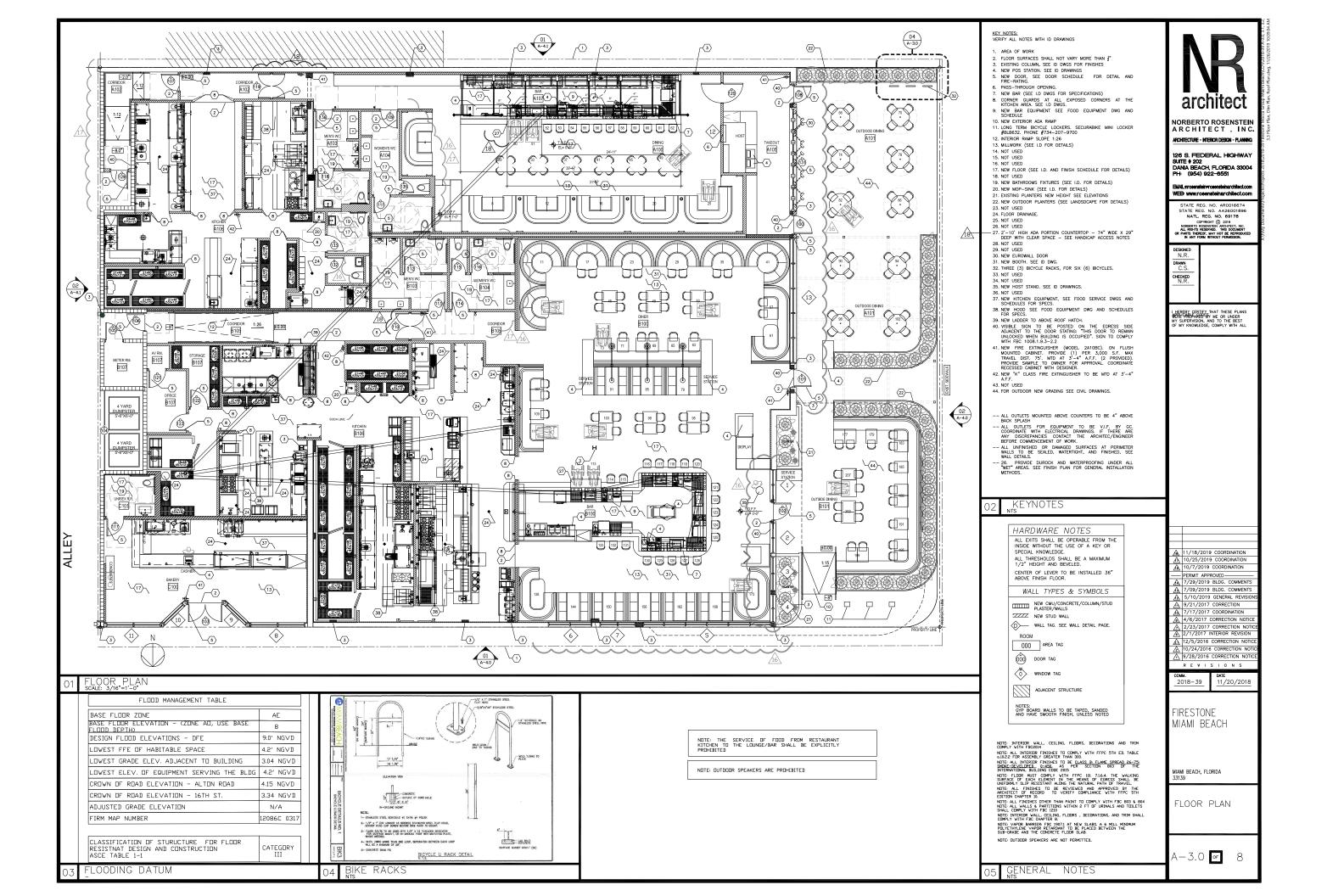
Attachment A-1

Location Map and Site Plan









Attachment B-1

Methodology Correspondence

Dorman, Cory

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

Sent: Wednesday, April 22, 2020 8:22 PM
To: McWilliams, John; Ferrer, Josiel
Cc: Mickey Marrero; Dorman, Cory

Subject: Re: 1575 Alton Road/Firestone - Traffic Assessment Methodology Submittal

Categories: External

John,

Thank you for addressing the comments. We have no further comments. I will forward you the counts as soon as I receive them.

Thank you Firat

From: McWilliams, John < John. McWilliams@kimley-horn.com>

Sent: Wednesday, April 22, 2020 6:48:29 PM

To: Akcay, Firat <FiratAkcay@miamibeachfl.gov>; Ferrer, Josiel <JOSIELFERRER@miamibeachfl.gov> Cc: Mickey Marrero <MMarrero@brzoninglaw.com>; Dorman, Cory <cory.dorman@kimley-horn.com>

Subject: RE: 1575 Alton Road/Firestone - Traffic Assessment Methodology Submittal

[THIS MESSAGE COMES FROM AN EXTERNAL EMAIL - USE CAUTION WHEN REPLYING AND OPENING LINKS OR ATTACHMENTS]

Firat/Josiel:

Good evening. Per today's call, we have updated our methodology memorandum for your records.

Thanks,

John

John J. McWilliams, P.E.

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

Direct: 954-535-5106 | Mobile: 954-873-9407 | www.kimley-horn.com

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

Sent: Tuesday, April 21, 2020 2:00 PM

To: McWilliams, John < John. McWilliams@kimley-horn.com>; Ferrer, Josiel < JOSIELFERRER@miamibeachfl.gov>

Cc: Mickey Marrero < MMarrero@brzoninglaw.com>; Dorman, Cory < cory.dorman@kimley-horn.com>

Subject: RE: 1575 Alton Road/Firestone - Traffic Assessment Methodology Submittal

John,

Although the checklist may seem extensive, these items are typically addressed in every traffic study. We provide this list as reference. We would be happy to go over it with you. We can setup a call for 1PM tomorrow? Thank you



Firat Akcay
Transportation Analyst
Transportation and Mobility Department
1688 Meridian Avenue, Suite 801, Miami Beach, FL 33139
Tel: 305-673-7000, ext 26839

Mobile: 786-261-4147

From: McWilliams, John < <u>John.McWilliams@kimley-horn.com</u>>

Sent: Tuesday, April 21, 2020 12:59 PM

To: Akcay, Firat <<u>FiratAkcay@miamibeachfl.gov</u>>; Ferrer, Josiel <<u>JOSIELFERRER@miamibeachfl.gov</u>> Cc: Mickey Marrero <<u>MMarrero@brzoninglaw.com</u>>; Dorman, Cory <<u>cory.dorman@kimley-horn.com</u>>

Subject: RE: 1575 Alton Road/Firestone - Traffic Assessment Methodology Submittal

Importance: High

[THIS MESSAGE COMES FROM AN EXTERNAL EMAIL - USE CAUTION WHEN REPLYING AND OPENING LINKS OR ATTACHMENTS]

Firat:

Good afternoon. Thank you for providing. We are surprised by the extensive requirements you have outlined given our previous call, the development's size, the current data collection situation, and our timeline. Would it be possible to have a call tomorrow afternoon to discuss the requirements and reach a consensus? Please advise.

Thanks,

John

John J. McWilliams, P.E.

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

Direct: 954-535-5106 | Mobile: 954-873-9407 | <u>www.kimley-horn.com</u>

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

Sent: Tuesday, April 21, 2020 12:10 PM

To: McWilliams, John <John.McWilliams@kimley-horn.com>; Ferrer, Josiel <JOSIELFERRER@miamibeachfl.gov>

Cc: Mickey Marrero < MMarrero@brzoninglaw.com>; Dorman, Cory < cory.dorman@kimley-horn.com>

Subject: Re: 1575 Alton Road/Firestone - Traffic Assessment Methodology Submittal

Hello John.

Please see comments below:

- 1. The existing use of the Project hasn't been active for more than 3 years which disqualifies it to be considered as an existing use.
- 2. Considering a diner/breakfast place has an increased demand during weekend brunch times, we require an analysis period of the weekends to be included in the study.
- 3. The bicycle and pedestrian modes of transportation must be analyzed while utilizing the local, county and federal LOS criteria. We have recently collected data at the immediate intersection of Alton Road and 16th Street which will be provided to you.
- 4. Valet analysis must be conducted at the parking spaces on 16th Street as well as on Alton Road in the event the 16th Street parking lane elimination will be necessary as part of the intersection improvements.

Please see attached checklist. We will try to get you the concepts of 16th Street as soon as they become available. Thank you



Firat Akcay
Transportation Analyst
Transportation and Mobility Department
1688 Meridian Avenue, Suite 801, Miami Beach, FL 33139
Tel: 305-673-7000, ext 26839

Mobile: 786-261-4147

From: McWilliams, John < <u>John.McWilliams@kimley-horn.com</u>>

Sent: Monday, April 20, 2020 11:27:57 AM

To: Akcay, Firat < Ferrer, Josiel < JOSIELFERRER@miamibeachfl.gov > Cc: Mickey Marrero MMarrero@brzoninglaw.com; Dorman, Cory cory.dorman@kimley-horn.com >

Subject: RE: 1575 Alton Road/Firestone - Traffic Assessment Methodology Submittal

[THIS MESSAGE COMES FROM AN EXTERNAL EMAIL - USE CAUTION WHEN REPLYING AND OPENING LINKS OR ATTACHMENTS]

Firat:

Good morning. I just wanted to check in and see if you got an update from your peer review consultant. Please advise.

Thanks,

John

John J. McWilliams, P.E.

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

Direct: 954-535-5106 | Mobile: 954-873-9407 | www.kimley-horn.com

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

Sent: Friday, April 17, 2020 8:45 AM

To: McWilliams, John < John. McWilliams@kimley-horn.com>; Ferrer, Josiel < JOSIELFERRER@miamibeachfl.gov>

Cc: Mickey Marrero < MMarrero@brzoninglaw.com>; Dorman, Cory < cory.dorman@kimley-horn.com>

Subject: RE: 1575 Alton Road/Firestone - Traffic Assessment Methodology Submittal

Hello John,

I had sent the methodology to our peer review as well and awaiting comments. We will follow up no later than today. Thank you



Firat Akcay
Transportation Analyst
Transportation and Mobility Department
1688 Meridian Avenue, Suite 801, Miami Beach, FL 33139
Tel: 305-673-7000, ext 26839

Mobile: 786-261-4147

From: McWilliams, John < <u>John.McWilliams@kimley-horn.com</u>>

Sent: Friday, April 17, 2020 8:24 AM

To: Akcay, Firat < FiratAkcay@miamibeachfl.gov >; Ferrer, Josiel < JOSIELFERRER@miamibeachfl.gov > Cc: Mickey Marrero < MMarrero@brzoninglaw.com >; Dorman, Cory < cory.dorman@kimley-horn.com >

Subject: RE: 1575 Alton Road/Firestone - Traffic Assessment Methodology Submittal

[THIS MESSAGE COMES FROM AN EXTERNAL EMAIL - USE CAUTION WHEN REPLYING AND OPENING LINKS OR ATTACHMENTS]

Josiel/Firat:

Good morning. My apologies for following up so quickly on this. As you know we are under a deadline to submit the assessment to you by 4/27. Therefore, we are hoping to get some feedback from you on the methodology asap to give us ample time to prepare the work. Please advise on the status of your review.

Thanks,

John

John J. McWilliams, P.E.

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

Direct: 954-535-5106 | Mobile: 954-873-9407 | www.kimley-horn.com

From: McWilliams, John

Sent: Wednesday, April 15, 2020 6:10 PM

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

 $\label{lem:composition} \begin{tabular}{ll} $\sf Cc: Mickey Marrero < $$\underline{\sf MMarrero@brzoninglaw.com}$$>$; Jonathan Weislow < $\underline{\sf jweislow@amicon.us}$$>$; Dorman, Cory < $\underline{\sf cory.dorman@kimley-horn.com}$$>$; Chris Cuomo < $\underline{\sf cuomo@groothq.com}$$>$; $\underline{\sf mo@groothq.com}$$; Tara Osborne < $\underline{\sf tosborne@amicon.us}$$>$$

Subject: 1575 Alton Road/Firestone - Traffic Assessment Methodology Submittal

Josiel/Firat:

Good afternoon. As a follow up to our call last week, attached is the traffic assessment methodology. Any expedition of your review and comment would be appreciated given our tight submittal schedule. As always, please contact me with any questions.

Thanks,

John

John J. McWilliams, P.E.

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

Direct: 954-535-5106 | Mobile: 954-873-9407 | www.kimley-horn.com



Memorandum

To: Firat Akcay

City of Miami Beach

Cc: Josiel Ferrer, P.E.

City of Miami Beach

From: John McWilliams, P.E

Date: April 22, 2020

Subject: 1575 Alton Road Redevelopment

Traffic Study Methodology

The purpose of this memorandum is to summarize the traffic study methodology for the proposed redevelopment of the property located at 1575 Alton Road in Miami Beach, Florida as discussed during the April 8, 2020 and April 22 conference calls with City of Miami Beach staff. Currently, the existing site is occupied by a 11,849 square-foot automobile service and tire shop. The proposed redevelopment includes a 102-seat restaurant, 207-seat restaurant, and 770 square-foot bakery. Note the existing automobile service and tire shop is not currently operational and will be demolished as part of the proposed redevelopment. A project location map and site plan are included in Attachment A. The following sections summarize our proposed methodology.

TRIP GENERATION

Trip generation calculations for the proposed redevelopment were performed using Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 10th Edition. The trip generation for the proposed redevelopment was determined using ITE LUC 931 (Quality Restaurant) and 939 (Bread/Donut/Bagel Shop without Drive-Through Window).

A multimodal (public transit, bicycle, and pedestrian) factor based on US Census *Means of Transportation to Work* data was reviewed for the census tracts in the vicinity of the site. The US Census data indicated that there is a 50.2 percent (50.2%) multimodal factor within the vicinity of the site. However, to provide a conservative analysis, a multimodal factor of 20.0 percent (20.0%) was applied to the trip generation calculations to account for the urban environment in which the project site is located. It is expected that a portion of employees, guests, and patrons will choose to walk, bike, or use public transit to and from the site.

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

The project is expected to generate 48 net new vehicle trips during the A.M. peak hour, 57 net new vehicle trips during the P.M. peak hour, and 112 net new vehicle trips during the weekend (Saturday) peak hour of generator. Detailed trip generation calculations are included as Attachment B.



DATA COLLECTION

Peak period turning movement counts will be provided by the City of Miami Beach at the intersection of 16th Street and Alton Road. Please note that field observations will not be conducted as traffic data will be provided by the City. The traffic counts will be adjusted to peak season conditions using the appropriate Florida Department of Transportation (FDOT) peak season category factor. All traffic counts will be collected in 15-minute intervals during the peak periods. Turning movement counts will also include pedestrians and bicyclists. Signal timing information will be obtained from Miami-Dade County Department of Transportation and Public Works – Traffic Signals and Signs Division. All traffic data collected will be provided in the Appendix of the traffic study.

TRIP DISTRIBUTION

Trip distribution will be determined based on the location of the vehicle drop-off/pick-up area location and 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 Transportation Planning Organization's (TPO's) 2045 Long Range Transportation Plan Directional Trip Distribution Report travel demand model 2015 and 2045 data. The project is located within TAZ 642. Therefore, a cardinal distribution was developed based on this TAZ. The traffic study will include graphics of the project traffic assignment and valet trips at the project's drop-off/pick-up area and off-site valet parking lot. The cardinal distribution is provided in Attachment C.

BACKGROUND GROWTH RATE

A background growth rate will be calculated based on historic growth trends at nearby FDOT traffic count stations. Additionally, growth rates based on the Florida Standard Urban Transportation Model Structure (FSUTMS) Southeast Regional Planning Model (SERPM) projected 2015 and 2045 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 study. Please note that the City did not identify any committed developments to be included as part of future conditions.

CAPACITY ANALYSIS

Intersection capacity analyses will be conducted for the weekday A.M., weekday P.M., and weekend peak hours consistent with the data provided by the City at the study intersection. Intersection capacity analyses will be performed using *Synchro 10* traffic engineering analysis software which applies the Transportation Research Board's (TRB's), *Highway Capacity Manual* (HCM), 2000, 2010, and 6th Edition methodologies. Intersection capacity analyses will be conducted for the vehicle, bicycle, and pedestrian modes under three (3) scenarios: existing, future build-out without project (future background conditions), and future build-out with project (future total conditions). A build-out year of 2022 will be used in the analysis.

The following figures will be included for the study intersections:

- Existing conditions
- Future background traffic conditions (with growth rate and committed development traffic)
- Trip distribution
- Trip assignment
- Future total traffic conditions (with project)



MULTIMODAL EVALUATION

Multimodal facilities including existing and committed bicycle and pedestrian amenities within the vicinity of the proposed redevelopment will be documented in the traffic study.

SITE LOADING OPERATIONS PLAN

A description of the delivery and sanitary truck loading operations as part of the proposed redevelopment will be documented in the traffic study.

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 study will be summarized in a report. The report will include supporting documents including trip generation calculations and text and graphics necessary to summarize the assumptions and analysis. An electronic copy of the report will be provided as part of the submittal package.

VALET ANALYSIS

A valet operations queuing analysis will be prepared for two (2) scenarios: i.) vehicle drop-off/pick-up area located along the south side of 16th Street just east of Alton Road and ii.) vehicle drop-off/pick-up area located along the east side of Alton Road just south of 16th Street. The valet operations analysis will be prepared to ensure that queues do not spill back into public right-of-way. If necessary, the vehicle drop-off/pick-up area for the valet operation will be coordinated with the City of Miami Beach Parking Department.

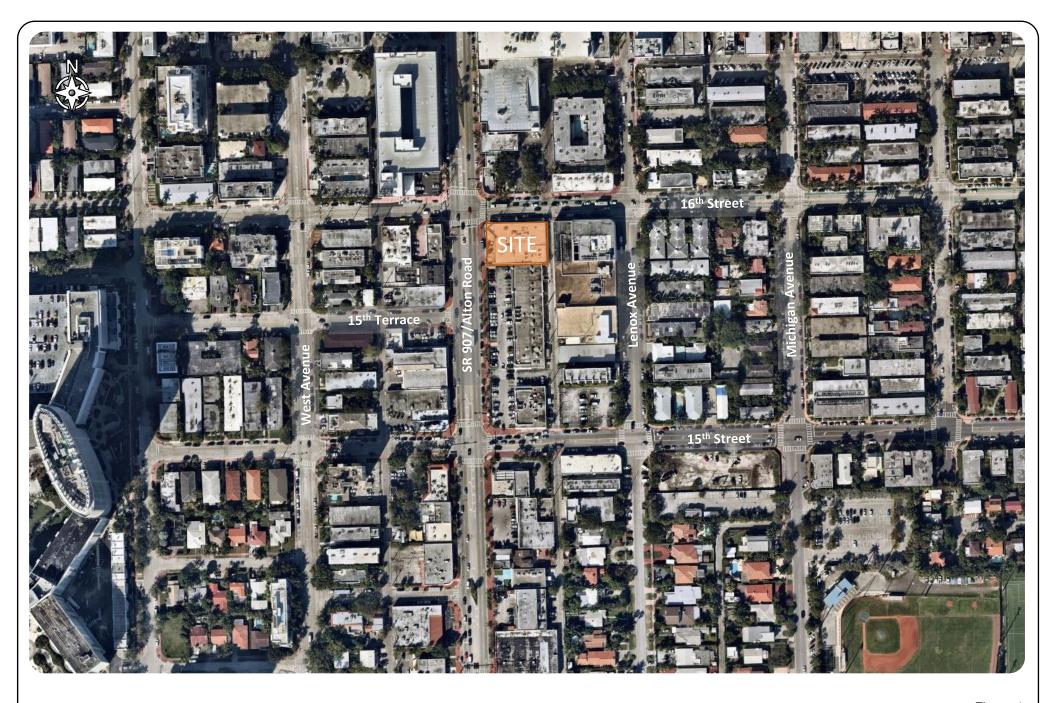
Trip generation estimates will be utilized to provide for the highest demand scenario. The highest demand scenario will be based on the trip generation estimate for the proposed redevelopment during the weekend (Saturday) peak hour of generator. Note that the project is expected to generate 112 vehicle trips during the weekend (Saturday) peak hour of generator. Please note that a 42.6 percent (42.6%) taxi/rideshare factor was be applied to the trip generation estimates based on actual field observation from the Cadillac Hotel located at 3925 Collins Avenue to account for taxi/rideshare trips. Therefore, the project is expected to generate 64 valet trips during the weekend (Saturday) peak hour of generator and will be utilized in the valet analysis. Data related to taxi/rideshare trips is provided in Attachment D.

The valet operations queuing analysis will be conducted consistent with procedures described in ITE's *Transportation and Land Development*, 1988. A traffic circulation figure will be prepared to illustrate the valet routes to and from the vehicle drop-off/pick-up area. The analysis will include the assumptions and results, including the location of the off-site valet parking lot along with the number of on-site parking spaces assigned for valet operations and the required number of valet attendants to service the facility under highest demand conditions.

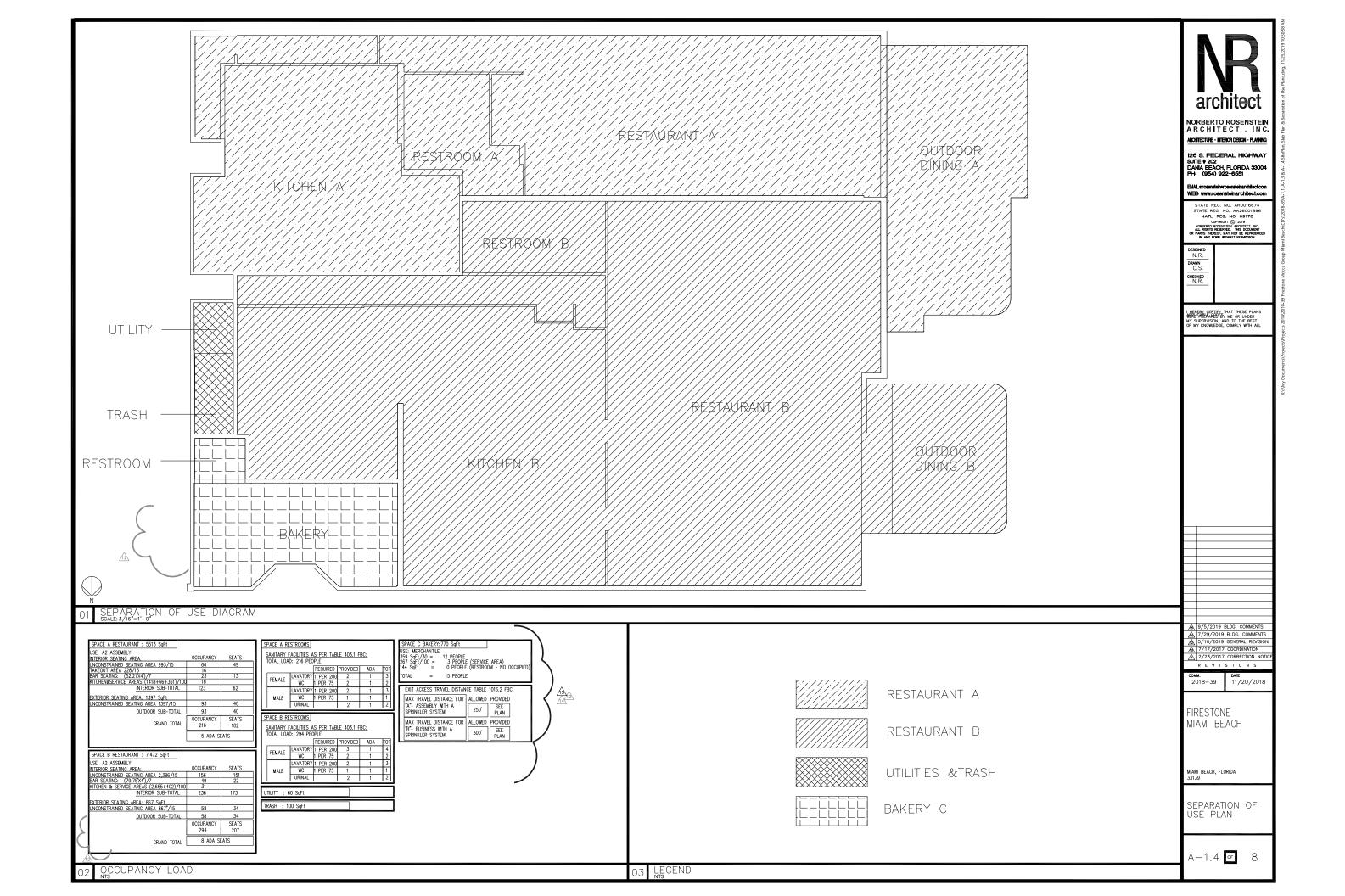
K:\FTL_TPTO\143232000-1575 Alton Road (Firestone)\correspondence\memo\1575 Alton Road Traffic Assessment Methodology_update.docx

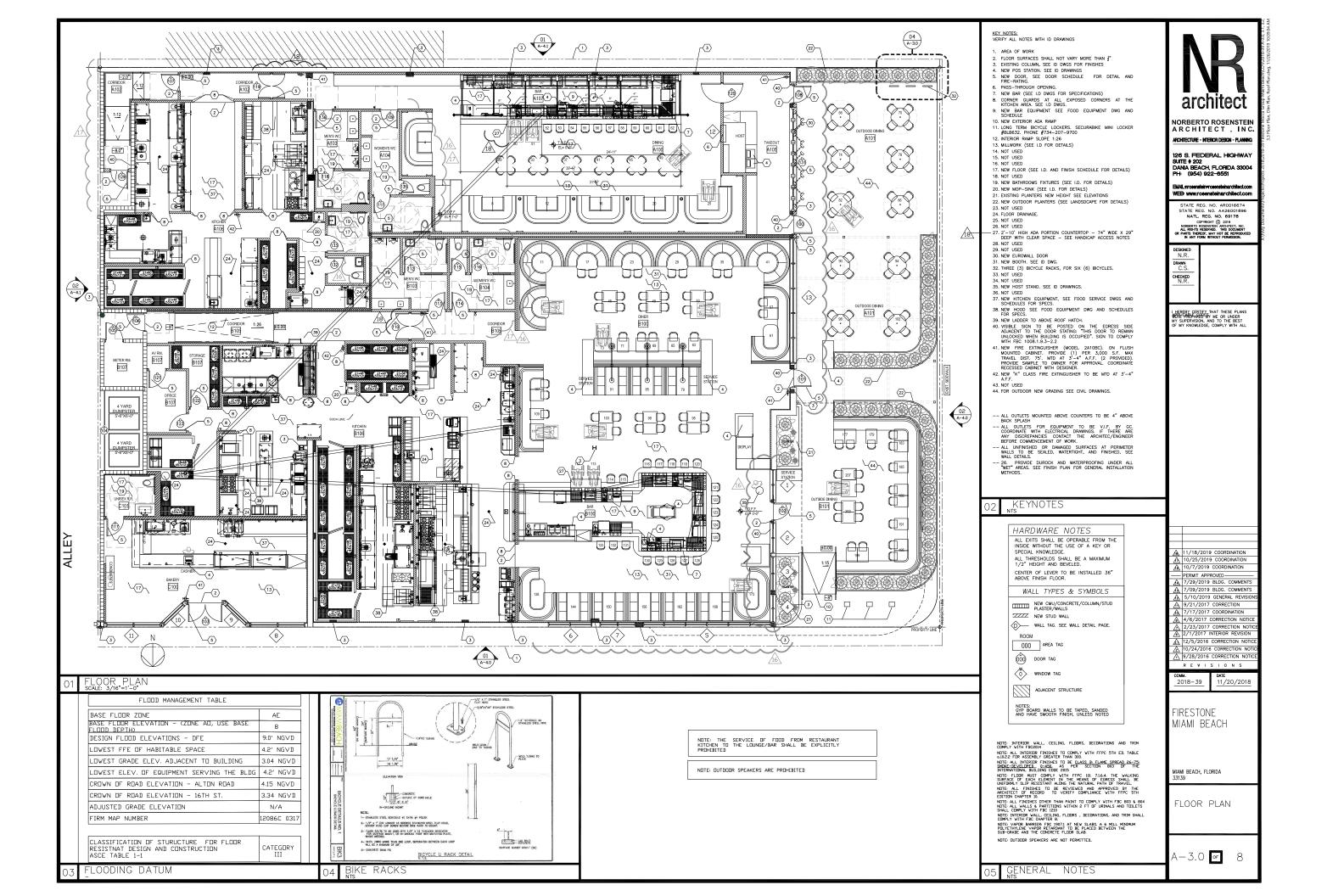
Attachment A

Project Location Map and Site Plan









Attachment B

Trip Generation Calculations

PROPOSED WEEKDAY AM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS					DIREC	GROSS VOLUMES			MULTIMODAL REDUCTION		EXTERNAL TRIPS		INTERNAL CAPTURE		NET NEW EXTERNAL TRIPS			PASS-BY CAPTURE			NET NEW TERNAL TI			
		Land Use	ITE Edition	ITE Code	Scale	ITE Units	Pe In	Out	ln	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	ln	Out	Total
	1	Quality Restaurant	10	931	309	seat	50%	50%	3	3	6	20.0%	1	3	2	5	0.0%	0	3	2	5	0.0%	0	3	2	5
	2	Bread/Donut/Bagel Shop without Drive-Through Wind	10	939	0.77	ksf	47%	53%	25	29	54	20.0%	11	20	23	43	0.0%	0	20	23	43	0.0%	0	20	23	43
	3																									
	4																									
G	5																									
I R	6					1																				
0	7							<u> </u>																		
I۲	8					1												ļ				1	<u> </u>			
	9 10					-	1	<u> </u>	<u> </u>					<u> </u>									 			
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	13																						 			
	14																									
	15																						t			
_		ITE Land Use Code		Ra	te or Equa	ation	•	Total:	28	32	60	20.0%	12	23	25	48	0.0%	0	23	25	48	0.0%	0	23	25	48
		931	,		Y=0.02(X		_			•		•		•	•		•		•		42.6%	Taxi/Rides	hare Factor	10	10	20
		939			Y=70.54(X	()																	Valet Trips	13	15	28

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GI	ENERATION	CHARA	ACTERIS	STICS					GROS VOLUM	ROSS MULTIMODAL REDUCTION		EXTERNAL TRIPS		INTERNAL CAPTURE		NET NEW EXTERNAL TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS				
	Land Use		ITE Edition	ITE Code	Scale	ITE Units	Pe	rcent Out	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
$\overline{}$	1 Quality Restaurant		10	931	309	seat	67%	33%	58	29	87	20.0%	18	46	23	69	0.0%	0	46	23	69	44.0%	30	26	13	39
	2 Bread/Donut/Bagel Shop without Dr	ive-Through Wind	10	939	0.77	ksf	50%	50%	11	11	22	20.0%	4	9	9	18	0.0%	0	9	9	18	0.0%	0	9	9	18
	3																			Ť						— ——
	4																									
G	5																									
R	6																									
0	7																									
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ш	ITE Land Use Co	ode		Ra	te or Equa	ition	<u> </u>	Total:	69	40	109	20.0%	22	55	32	87	0.0%	0	55	32	87	34.5%	30	35	22	57
	931				Y=0.28(X		-	. 51411	- 50		.00			50			2.070		50		42.6%		hare Factor	15	9	24
	939				Y=28(X)	,															.2.070		Valet Trips	20	13	33

PROPOSED SATURDAY PEAK HOUR OF GENERATOR TRIP GENERATION

	ITE TRIP GENERATION	CHAR	ACTERIS	STICS		_	TIONAL BUTION		GROS VOLUM			MODAL CTION	EXT	ERNAL	TRIPS		RNAL TURE		NET NEW TERNAL TR		_	S-BY TURE	EXT	NET NEW TERNAL TR	IPS
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	Cent	ln	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
	1 Quality Restaurant	10	931	309	seat	59%	41%	60	42	102	20.0%	20	48	34	82	0.0%	0	48	34	82	0.0%	0	48	34	82
	2 Bread/Donut/Bagel Shop without Drive-Through Wind	10	939	0.77	ksf	52%	48%	20	18	38	20.0%	8	16	14	30	0.0%	0	16	14	30	0.0%	0	16	14	30
	3																								
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1 7	2																								
	3																								
	4																								
1	5																								
	ITE Land Use Code			ite or Equa		_	Total:	80	60	140	20.0%	28	64	48	112	0.0%	0	64	48	112	0.0%	0	64	48	112
	931			Y=0.33(X)																42.6%		hare Factor	27	21	48
	939			Y=49.09(X	i)																	Valet Trips	37	27	64



Note: This is a modified view of the original table produced by the U.S. Census Bureau.

Note: This download or printed version may have missing information from the original table.

MEANS OF TRANSPORTATION TO WORK

Survey/Program:

American Community Survey

Universe:

Workers 16 years and over

Year: 2018

Estimates:

5-Year

Table ID:

B08301

Source: U.S. Census Bureau, 2018 American Community Survey 1-Year Estimates

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.

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 ACS Technical Documentation). 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.

While the 2018 American Community Survey (ACS) data generally reflect the July 2015 Office of Management and Budget (OMB) delineations 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 delineations due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, 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.

Explanation of Symbols:

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.

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, or the margin of error associated with a median was larger than the median itself.

An "-" following a median estimate means the median falls in the lowest interval of an open-ended distribution.

An "+" following a median estimate means the median falls in the upper interval of an open-ended distribution.

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.

An "*****" entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

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.

An "(X)" means that the estimate is not applicable or not available.

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

(117+328+336)/1,556 = 50.2%

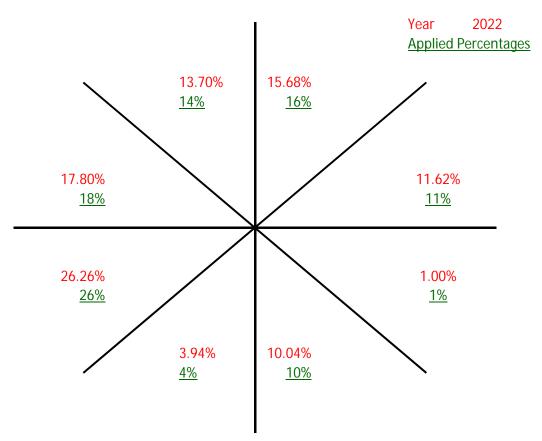
Census Tract 42.04, Miami-Dade County, Florida

	Estimate	Margin of Error
➤ Total:	1,556	+/-242
→ Car, truck, or van:	521	+/-163
Drove alone	491	+/-155
✓ Carpooled:	30	+/-37
In 2-person carpool	8	+/-13
In 3-person carpool	22	+/-35
In 4-person carpool	0	+/-13
In 5- or 6-person carpool	0	+/-13
In 7-or-more-person carpool	0	+/-13
Public transportation (excluding taxicab):	117	+/-73
Bus or trolley bus	117	+/-73
Streetcar or trolley car (carro publico in Puerto Rico)	0	+/-13
Subway or elevated	0	+/-13
Railroad	0	+/-13
Ferryboat	0	+/-13
Taxicab	80	+/-66
Motorcycle	10	+/-15
Bicycle	328	+/-169

Walked	336	+/-133
Other means	55	+/-51
Worked at home	109	+/-52

Attachment C Cardinal Trip Distribution

Cardinal Distribution for TAZ 642



Cardinal Trip Distribution

Cardinal Direction	Percentag	ge of Trips	2022	2022
Cardinal Direction	2015	2045	Interpolated	Rounded
North-Northeast	16.4%	14.60%	15.68%	16.00%
East-Northeast	12.5%	10.30%	11.62%	11.00%
East-Southeast	1.0%	1.00%	1.00%	1.00%
South-Southeast	11.2%	8.30%	10.04%	10.00%
South-Southwest	4.1%	3.70%	3.94%	4.00%
West-Southwest	23.9%	29.80%	26.26%	26.00%
West-Northwest	17.4%	18.40%	17.80%	18.00%
North-Northwest	13.5%	14.00%	13.70%	14.00%
Total	100.0%	100.1%	100.04%	100.00%

2@45LRTP

		N	/liami-Dade	2015 Base	Year Direc	tion Trip C	Distributio	n Summary	/		
TAZ of	Origin	Tring /				Cardinal D	irections				Total
County TAZ	Regional TAZ	Trips / Percent	NNE	ENE	ESE	SSE	ssw	wsw	WNW	NNW	Total Trips
625	3525	Trips	610	160	-	557	431	1,317	679	1,035	4,961
625	3525	Percent	12.7	3.3	-	11.6	9.0	27.5	14.2	21.6	
626	3526	Trips	122	-	-	-	2,090	2,277	1,198	2,942	9,399
626	3526	Percent	1.4	-	-	-	24.2	26.4	13.9	34.1	
627	3527	Trips	279	-	-	-	2,051	2,578	845	1,965	8,061
627	3527	Percent	3.6	-	-	-	26.6	33.4	11.0	25.5	
628	3528	Trips	298	-	49	79	984	902	332	679	3,579
628	3528	Percent	9.0	-	1.5	2.4	29.6	27.2	10.0	20.5	
629	3529	Trips	1,374	549	344	1,656	1,708	3,707	1,668	2,101	14,261
629	3529	Percent	10.5	4.2	2.6	12.6	13.0	28.3	12.7	16.0	
630	3530	Trips	952	-	210	347	1,696	2,375	794	1,114	8,135
630	3530	Percent	12.7	-	2.8	4.6	22.7	31.7	10.6	14.9	
631	3531	Trips	255	-	-	-	1,215	1,471	440	1,030	4,651
631	3531	Percent	5.8	-	-	-	27.6	33.4	10.0	23.4	
632	3532	Trips	309	-	-	-	1,242	1,751	750	635	4,880
632	3532	Percent	6.6	-	-	-	26.5	37.4	16.0	13.5	
633	3533	Trips	310	-	-	-	1,181	1,428	750	730	4,590
633	3533	Percent	7.0	-	-	-	26.9	32.5	17.1	16.6	
634	3534	Trips	1,502	112	240	837	1,718	1,928	976	1,727	9,998
634	3534	Percent	16.6	1.2	2.7	9.3	19.0	21.3	10.8	19.1	<u> </u>
635	3535	Trips	779	-	-	-	2,021	1,994	952	1,411	8,010
635	3535	Percent	10.9	-	-	-	28.2	27.9	13.3	19.7	
636	3536	Trips	1,041	-	-	686	1,152	2,072	911	1,071	7,384
636	3536	Percent	15.0	-	-	9.9	16.6	29.9	13.1	15.4	7,501
637	3537	Trips	323	31	87	217	126	601	303	290	1,987
637	3537	Percent	16.4	1.6	4.4	11.0	6.4	30.4	15.3	14.7	1,507
638	3538	Trips	152	35	87	86	114	218	162	126	999
638	3538	Percent	15.5	3.6	8.9	8.7	11.6	22.3	16.5	12.9	333
639	3539	Trips	825	281	277	1,089	131	1,364	796	599	5,721
639	3539	Percent	15.4	5.2	5.2	20.3	2.4	25.4	14.9	11.2	3,721
640	3540	Trips	344	247	868	104	43	685	405	274	3,053
640	3540	Percent	11.6	8.3	29.2	3.5	1.5	23.1	13.6	9.2	3,033
641	3541	Trips	1,051	1,714	291	723	309	1,572	1,188	916	8,356
641	3541	Percent	13.5	22.1	3.7	9.3	4.0	20.3	15.3	11.8	0,330
642	3542	Trips	1,849	1,404	115	1,263	457	2,697	1,962	1,518	12,299
642	3542	Percent	16.4	12.5	1.0	11.2	4.1	23.9	17.4	13.5	12,233
643	3543	Trips	1,747	551	-	965	479	2,595	1,554	1,715	10,383
643	3543	Percent	18.2	5.7	-	10.1	5.0	2,393	16.2	17.9	10,303
644	3544	Trips	2,022		-	-	2,250	4,141	2,585	2,646	15,224
644	3544	Percent	14.8	-	-	-	16.5	30.4	19.0	19.4	13,224
645	3545	Trips	1,268		-	-	907	1,498	1,720	1,351	7,018
645	3545	Percent	1,268	-	-	-	13.5	22.2	25.5	20.0	7,018
646	3545	Trips	986	-	156	520	250	1,081	1,094	1,181	5,470
646	3546		18.7	-	3.0	9.9	4.7	20.5	20.8	22.4	3,470
		Percent									1.070
647	3547 3547	Trips	350	103	5.9	165	66	354	359	408	1,979
647		Percent	18.2	5.4		8.6	3.5	18.5	18.7	21.2	4747
648	3548	Trips	1,027	434	254	401	48	903	1,001	514	4,747
648	3548	Percent	22.4	9.5	5.5	8.8	1.0	19.7	21.9	11.2	2 220
649	3549	Trips	754	192	184	230	41	612	743	427	3,320
649	3549	Percent	23.7	6.0	5.8	7.2	1.3	19.2	23.3	13.4	050
650	3550	Trips	45	80	104	0	14	155	304	133	850
650	3550	Percent	5.4	9.6	12.4	0.0	1.6	18.5	36.5	16.0	

2@45LRTP

		Mian	ni-Dade 204	5 Cost Fea:	sible Plan I	Direction T	rip Distrib	ution Sum	mary		
TAZ of	Origin	- .,				Cardinal D	irections				Total
County TAZ	Regional TAZ	Trips / Percent	NNE	ENE	ESE	SSE	SSW	WSW	WNW	NNW	Total Trips
625	3525	Trips	515	114	-	541	802	1,791	829	1,096	5,972
625	3525	Percent	9.1	2.0	-	9.5	14.1	31.5	14.6	19.3	
626	3526	Trips	66	-	-	-	2,417	3,260	1,417	2,993	11,237
626	3526	Percent	0.7	-	-	-	23.8	32.1	14.0	29.5	
627	3527	Trips	174	-	-	-	2,276	3,212	1,138	1,885	9,055
627	3527	Percent	2.0	-	-	-	26.2	37.0	13.1	21.7	
628	3528	Trips	238	-	23	101	1,053	1,266	390	660	4,028
628	3528	Percent	6.4	-	0.6	2.7	28.2	33.9	10.5	17.7	
629	3529	Trips	1,686	621	373	1,692	1,801	6,032	2,362	2,490	18,425
629	3529	Percent	9.9	3.6	2.2	9.9	10.6	35.4	13.9	14.6	
630	3530	Trips	888	-	326	303	1,717	3,876	1,515	1,553	11,277
630	3530	Percent	8.7	-	3.2	3.0	16.9	38.1	14.9	15.3	
631	3531	Trips	296	-	-	-	1,351	2,360	838	1,324	6,591
631	3531	Percent	4.8	-	-	-	21.9	38.3	13.6	21.5	
632	3532	Trips	343	-	-	-	1,500	2,647	1,390	1,098	7,499
632	3532	Percent	4.9	-	-	-	21.5	37.9	19.9	15.7	•
633	3533	Trips	368	-	-	-	1,052	1,986	859	841	5,391
633	3533	Percent	7.2	-	-	-	20.6	38.9	16.8	16.5	-,
634	3534	Trips	1,404	80	149	773	1,637	2,733	1,332	1,712	10,593
634	3534	Percent	14.3	0.8	1.5	7.9	16.7	27.8	13.6	17.4	10,333
635	3535	Trips	566	-	-		1,311	2,266	1,228	1,254	7,246
635	3535	Percent	8.5	-	-	_	19.8	34.2	18.5	18.9	7,240
636	3536	Trips	1,066	_		607	978	3,045	1,398	1,193	8,805
636	3536	Percent	12.9	-	-	7.3	11.8	36.8	16.9	14.4	0,003
637	3537		468	44	144	315	198	868	501	309	2,865
		Trips									2,003
637	3537	Percent	16.5	1.6	5.1	11.1	6.9	30.5	17.6	10.9	1 242
638	3538	Trips	127	33	78	94	79	401	285	185	1,342
638	3538	Percent	9.9	2.6	6.1	7.3	6.2	31.3	22.2	14.5	7.500
639	3539	Trips	944	303	253	1,068	176	2,395	1,085	905	7,569
639	3539	Percent	13.2	4.3	3.6	15.0	2.5	33.6	15.2	12.7	
640	3540	Trips	119	74	216	10	30	177	136	147	1,166
640	3540	Percent	13.1	8.2	23.7	1.1	3.4	19.4	14.9	16.2	
641	3541	Trips	1,145	1,056	206	569	242	2,378	1,724	1,142	9,066
641	3541	Percent	13.5	12.5	2.4	6.7	2.9	28.1	20.4	13.5	
642	3542		1,701	1,196	113	964	433	3,470	2,140	1,631	12,324
642	3542	Percent	14.6	10.3	1.0	8.3	3.7	29.8	18.4	14.0	
643	3543	Trips	1,884	580	-	1,133	631	3,768	2,190	2,157	13,183
643	3543	Percent	15.3	4.7	-	9.2	5.1	30.5	17.7	17.5	
644	3544	Trips	1,948	-	-	-	2,227	5,534	3,264	3,082	17,780
644	3544	Percent	12.1	-	-	-	13.9	34.5	20.3	19.2	
645	3545	Trips	1,314	-	-	-	844	1,661	2,170	1,703	8,075
645	3545	Percent	17.1	-	-	-	11.0	21.6	28.2	22.1	
646	3546	Trips	1,025	-	125	496	263	1,741	1,656	1,299	6,976
646	3546	Percent	15.5	-	1.9	7.5	4.0	26.4	25.1	19.7	
647	3547	Trips	296	122	96	109	79	582	661	405	2,490
647	3547	Percent	12.6	5.2	4.1	4.6	3.4	24.8	28.1	17.3	
648	3548	Trips	943	278	128	313	73	1,525	1,351	576	5,397
648	3548	Percent	18.2	5.4	2.5	6.0	1.4	29.4	26.0	11.1	
649	3549	Trips	643	120	121	216	43	873	952	508	3,661
649	3549	Percent	18.5	3.4	3.5	6.2	1.3	25.1	27.4	14.6	
650	3550	Trips	60	71	65	8	14	279	312	136	969
650	3550	Percent	6.4	7.5	6.9	0.9	1.5	29.5	33.0	14.4	

Attachment D Taxi/Rideshare Data

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

			Но	itel Valet Are	a Observatio	ns		
	Hotel Pick- up Maximum	Hotel Pick-	Hotel Pick- Up Peak Hour	Hotel Drop- off Maximum	Hotel Drop-	Hotel Drop- Off Peak Hour	Total Hotel	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	t Valet Area O	bservations		
	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	

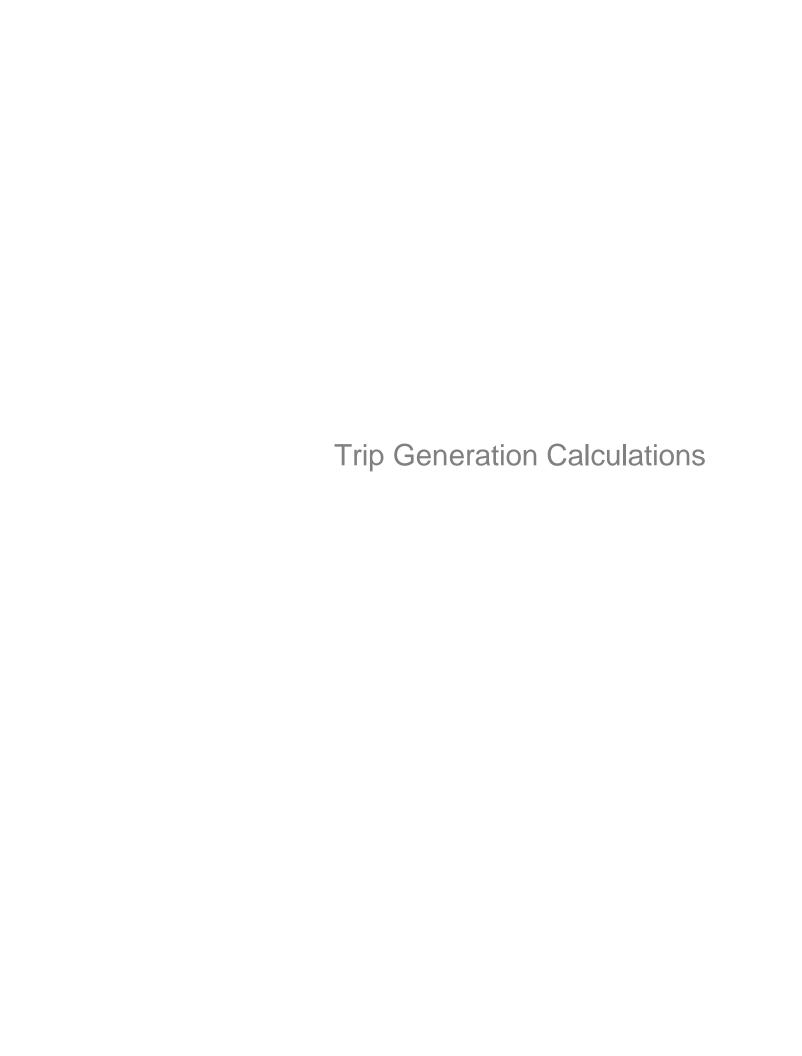
(
				Taxi vs Va	let Trips				
						Total Taxi	Total Site	Total Site	
	Valet Pick-	Valet Drop-	Total Valet	Taxi Pick-up	Taxi Drop-	Pick-up	Pick-up	Drop-off	Total Site
Time	up Trips	off Trips	Trips	Trips	off Trips	Trips	Trips	Trips	Trips
18:00	1	11	12	16	7	23	17	18	35
18:15	5	6	11	12	4	16	17	10	27
18:30	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 C-1

Trip Generation and Transit Information



PROPOSED WEEKDAY AM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATION	I CHAR	ACTERIS	STICS		DIREC* DISTRI			GROS VOLUM		MULTI REDU	MODAL CTION	EXT	ERNAL	TRIPS		RNAL TURE		NET NEW ERNAL TE			S-BY TURE		NET NEW ERNAL TR	
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	cent Out	İn	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	in	Out	Total	Percent	PB Trips	In	Out	Total
		10	931	309		50%	50%	2	3	FOLAI	20.0%	111ps	3	2	F	0.0%	0	2	Out	F	0.0%	()	2	Out	F
 	Quality Restaurant		939	0.77	seat ksf	47%	53%	25	29	54	20.0%	11	20	23	43	0.0%	0	20	23	43	0.0%	0	20	23	43
	Bread/Donut/Bagel Shop without Drive-Through Wind	10	939	0.77	KSI	47%	53%	25	29	54	20.0%	- 11	20	23	43	0.0%	U	20	23	43	0.0%	U	20	23	43
	-																								
1,4																									
G 5																									
R																									
0 _																									
U																									
P 9																									
1																									
1 1																									
1																									
1	3																								
1																									
1	5																								
	ITE Land Use Code Rate or Equation		ition	·	Total:	28	32	60	20.0%	12	23	25	48	0.0%	0	23	25	48	0.0%	0	23	25	48		
	931 Y=0.02(X))	•														42.6%	Taxi/Ridesl	nare Factor	10	10	20	
	939			Y=70.54(X	()																	Valet Trips	13	15	28

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIF	GENERATION	I CHAR	ACTERI	STICS			TIONAL BUTION		GROS VOLUM			MODAL CTION	EXT	ERNAL	TRIPS		RNAL TURE	EXT	NET NEW FERNAL TE			S-BY TURE		NET NEW FERNAL TF	
	Land Us	•	ITE Edition	ITE Code	Scale	ITE Units	Pe In	rcent Out	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	ln.	Out	Total
\mathbf{r}	1 Quality Restaurant	•	10	931	309	seat	67%	33%	58	29	87	20.0%	18	46	23	69	0.0%	0	46	23	69	44.0%	30	26	13	39
-	2 Bread/Donut/Bagel Shop without	ut Drive-Through Wind		939	0.77	ksf	50%	50%	11	11	22	20.0%	4	9	9	18	0.0%	0	9	9	18	0.0%	0	9	9	18
	3																0.070					0.070				- 10
	4																									
G	5																									
R	6																									
0	7																									
10	8																									
P	9					1																				
	10			_				<u> </u>		_																
1 - L	12		-			1		ļ	-														l .			
	13					1		1														-				\leftarrow
	14					1																	1			
	15					1																	1			
		ITE Land Use Code Rate or Equation						Total:	69	40	109	20.0%	22	55	32	87	0.0%	0	55	32	87	34.5%	30	35	22	57
	931		-		Y=0.28(X		-					•		•	•		•		•	•	42.6%	Taxi/Ridesl	hare Factor	15	9	24
	939				Y=28(X)																		Valet Trips	20	13	33

PROPOSED SATURDAY PEAK HOUR OF GENERATOR TRIP GENERATION

	ITE TRIP GENERATION	I CHAR	ACTERIS	STICS		_	TIONAL BUTION		GROS VOLUM			MODAL CTION	EXT	ERNAL	TRIPS		RNAL TURE		NET NEW FERNAL TF		_	SS-BY TURE	EXT	NET NEW TERNAL TR	≀IPS
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per In	Cent	ln	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
	1 Quality Restaurant	10	931	309	seat	59%	41%	60	42	102	20.0%	20	48	34	82	0.0%	0	48	34	82	0.0%	0	48	34	82
	2 Bread/Donut/Bagel Shop without Drive-Through Wind	10	939	0.77	ksf	52%	48%	20	18	38	20.0%	8	16	14	30	0.0%	0	16	14	30	0.0%	0	16	14	30
	3																								1
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1 -	0																							\vdash	
2 1																								\vdash	$\overline{}$
1 7	2																								
	3																								
	4																								
1	5																								
	ITE Land Use Code						Total:	80	60	140	20.0%	28	64	48	112	0.0%	0	64	48	112	0.0%	0	64	48	112
	931																			42.6%		hare Factor	27	21	48
	939			Y=49.09(X	i)																	Valet Trips	37	27	64



Note: This is a modified view of the original table produced by the U.S. Census Bureau.

Note: This download or printed version may have missing information from the original table.

MEANS OF TRANSPORTATION TO WORK

Survey/Program:

American Community Survey

Universe:

Workers 16 years and over

Year: 2018

Estimates:

5-Year

Table ID:

B08301

Source: U.S. Census Bureau, 2018 American Community Survey 1-Year Estimates

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.

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 ACS Technical Documentation). 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.

While the 2018 American Community Survey (ACS) data generally reflect the July 2015 Office of Management and Budget (OMB) delineations 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 delineations due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, 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.

Explanation of Symbols:

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.

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, or the margin of error associated with a median was larger than the median itself.

An "-" following a median estimate means the median falls in the lowest interval of an open-ended distribution.

An "+" following a median estimate means the median falls in the upper interval of an open-ended distribution.

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.

An "*****" entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

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.

An "(X)" means that the estimate is not applicable or not available.

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

(117+328+336)/1,556 = 50.2%

Census Tract 42.04, Miami-Dade County, Florida

	Estimate	Margin of Error
✓ Total:	1,556	+/-242
✓ Car, truck, or van:	521	+/-163
Drove alone	491	+/-155
✓ Carpooled:	30	+/-37
In 2-person carpool	8	+/-13
In 3-person carpool	22	+/-35
In 4-person carpool	0	+/-13
In 5- or 6-person carpool	0	+/-13
In 7-or-more-person carpool	0	+/-13
Public transportation (excluding taxicab):	117	+/-73
Bus or trolley bus	117	+/-73
Streetcar or trolley car (carro publico in Puerto Rico)	0	+/-13
Subway or elevated	0	+/-13
Railroad	0	+/-13
Ferryboat	0	+/-13
Taxicab	80	+/-66
Motorcycle	10	+/-15
Bicycle	328	+/-169

Walked	336	+/-133
Other means	55	+/-51
Worked at home	109	+/-52

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

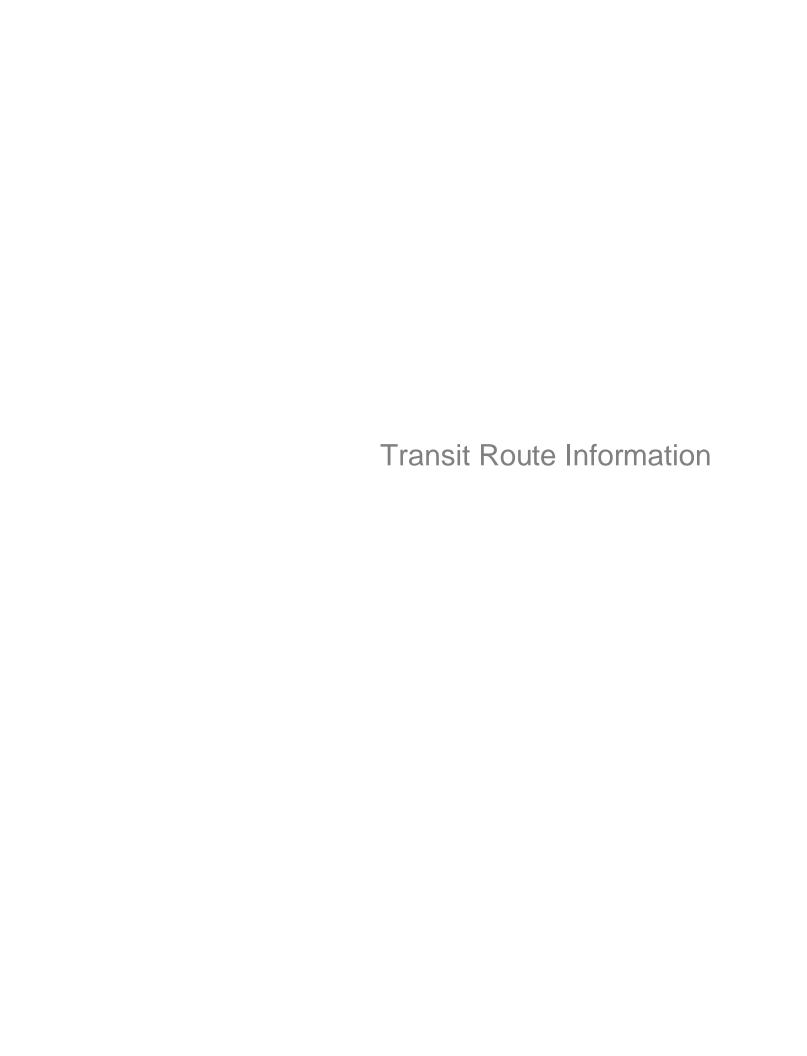
			Но	itel Valet Are	a Observatio	ns		
	Hotel Pick- up Maximum	Hotel Pick-	Hotel Pick- Up Peak Hour	Hotel Drop- off Maximum	Hotel Drop-	Hotel Drop- Off Peak Hour	Total Hotel	Total Hotel Peak Hour
Time	Queue	Up Volume	Volume	Queue	off Volume	Volume	Volume	Volume
18:00	0	0		3	18		18	
18:15	2	4		2	3		7	
18:30	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	t Valet Area O	bservations		
	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	

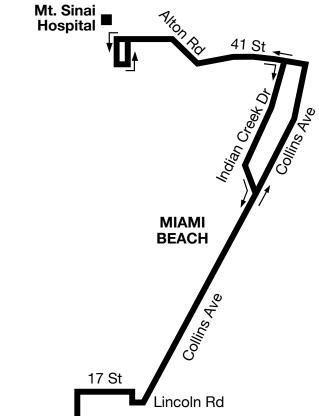
(
				Taxi vs Va	let Trips				
						Total Taxi	Total Site	Total Site	
	Valet Pick-	Valet Drop-	Total Valet	Taxi Pick-up	Taxi Drop-	Pick-up	Pick-up	Drop-off	Total Site
Time	up Trips	off Trips	Trips	Trips	off Trips	Trips	Trips	Trips	Trips
18:00	1	11	12	16	7	23	17	18	35
18:15	5	6	11	12	4	16	17	10	27
18:30	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

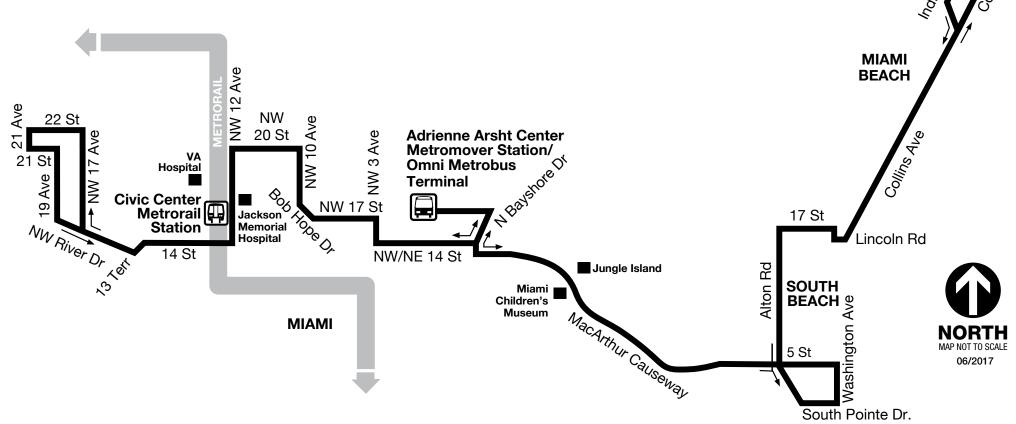
Taxi Trips Observed

42.6%









www.miamidade.gov/transit DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS













Menu

Employees

Calendar

Translate -

Miami-Dade County continues to monitor coronavirus (COVID-19). Get the latest updates.

MIAMIDADE

Login



We are asking customers to use public transit and STS services for essential trips only. Fares have been suspended for riders who depend on public transportation for essential trips. Transit services and trip frequencies have been adjusted. Some Metrobus express routes have been suspended. Customer Service and STS offices are closed until further notice. Please use our online services and mobile applications to stay connected.

Metrobus Routes Schedule





113 (Eastbound) WEEKDAY

NW 21 AV & 22 ST	NW 12 AV & 15 ST	OMNI TERMINAL / ARSHT METROMOVER	ALTON RD & 2 ST	5 ST & LENOX AV	17 ST & LENOX AV	LINCOLN RD & JAMES AV	INDIAN CREEK DR & 43 ST	41 ST & MERIDIAN AV	41 ST & ALTON RD	MT HC
05:42AM	05:48AM	05:58AM	06:08AM	06:13AM	06:21AM	06:26AM	06:35AM	06:42AM	06:43AM	06:
06:55AM	07:03AM	07:16AM	07:27AM	07:33AM	07:43AM	07:49AM	07:59AM	08:06AM	08:08AM	08:
07:45AM	07:53AM	08:06AM	08:17AM	08:23AM	08:33AM	08:39AM	08:51AM	08:58AM	09:00AM	09:
08:30AM	08:38AM	08:51AM	09:02AM	09:08AM	09:18AM	09:25AM	09:37AM	09:44AM	09:46AM	09:
09:55AM	10:03AM	10:17AM	10:28AM	10:34AM	10:44AM	10:51AM	11:03AM	11:10AM	11:12AM	11:
10:55AM	11:03AM	11:17AM	11:28AM	11:34AM	11:44AM	11:51AM	12:03PM	12:10PM	12:12PM	12:

11:55AM	12:03PM	12:17PM	12:28PM	12:34PM	12:44PM	12:51PM	01:03PM	01:10PM	01:12PM	01:
12:55PM	01:03PM	01:17PM	01:28PM	01:34PM	01:44PM	01:51PM	02:03PM	02:10PM	02:12PM	02:
01:55PM	02:03PM	02:17PM	02:28PM	02:34PM	02:44PM	02:51PM	03:03PM	03:10PM	03:12PM	03:
02:55PM	03:03PM	03:17PM	03:28PM	03:34PM	03:44PM	03:51PM	04:03PM	04:11PM	04:13PM	04:
03:40PM	03:48PM	04:02PM	04:14PM	04:20PM	04:30PM	04:37PM	04:49PM	04:57PM	04:59PM	05:
04:30PM	04:38PM	04:52PM	05:04PM	05:10PM	05:20PM	05:27PM	05:39PM	05:47PM	05:49PM	05:
05:15PM	05:23PM	05:37PM	05:49PM	05:55PM	06:05PM	06:12PM	06:24PM	06:32PM	06:34PM	06:
06:00PM	06:08PM	06:22PM	06:34PM	06:40PM	06:50PM	06:57PM	07:09PM	07:16PM	07:17PM	07:
06:45PM	06:53PM	07:07PM	07:18PM	07:24PM	07:32PM	07:38PM	07:49PM	07:56PM	07:57PM	07:
07:35PM	07:42PM	07:55PM	08:06PM	08:12PM	08:20PM	08:26PM	08:37PM	08:44PM	08:45PM	08:
08:35PM	08:42PM	08:55PM	09:06PM	09:12PM	09:20PM	09:26PM	09:37PM	09:44PM	09:45PM	09:
09:35PM	09:42PM	09:55PM	10:06PM	10:11PM	10:19PM	10:24PM	10:33PM	10:39PM	10:40PM	10:

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Metrobus Routes Schedule





113 (Westbound) WEEKDAY

ALTON RD & 39 ST	MT SINAI HOSPITAL	41 ST & ALTON RD	41 ST & MERIDIAN AV	INDIAN CREEK DR & 40 ST	LINCOLN RD & WASHINGTON AV	ALTON RD & LINCOLN RD	ALTON RD & 2 ST	5 ST & LENOX AV	OMNI TERMINAL / ARSHT METROMOV
-	05:43AM	05:45AM	05:46AM	05:50AM	05:56AM	06:01AM	06:08AM	06:13AM	06:21AM
-	06:26AM	06:28AM	06:30AM	06:34AM	06:42AM	06:47AM	06:54AM	06:59AM	07:07AM
07:02AM	07:05AM	07:07AM	07:09AM	07:14AM	07:24AM	07:29AM	07:38AM	07:44AM	07:52AM
08:25AM	08:28AM	08:30AM	08:32AM	08:38AM	08:49AM	08:54AM	09:05AM	09:11AM	09:21AM
09:17AM	09:20AM	09:23AM	09:25AM	09:31AM	09:43AM	09:49AM	10:00AM	10:06AM	10:16AM
10:13AM	10:16AM	10:19AM	10:21AM	10:27AM	10:39AM	10:45AM	10:56AM	11:02AM	11:12AM

-	11:16AM	11:19AM	11:21AM	11:27AM	11:39AM	11:45AM	11:56AM	12:02PM	12:12PM
-	12:16PM	12:19PM	12:21PM	12:27PM	12:39PM	12:45PM	12:56PM	01:02PM	01:12PM
-	01:16PM	01:19PM	01:21PM	01:27PM	01:39PM	01:45PM	01:56PM	02:02PM	02:12PM
-	02:06PM	02:09PM	02:11PM	02:17PM	02:29PM	02:35PM	02:46PM	02:52PM	03:02PM
-	02:56PM	02:59PM	03:01PM	03:07PM	03:19PM	03:25PM	03:36PM	03:42PM	03:52PM
-	03:46PM	03:49PM	03:51PM	03:57PM	04:09PM	04:15PM	04:26PM	04:32PM	04:42PM
04:29PM	04:32PM	04:34PM	04:36PM	04:42PM	04:54PM	05:00PM	05:11PM	05:17PM	05:27PM
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08:12PM	08:15PM	08:17PM	08:19PM	08:25PM	08:36PM	08:41PM	08:50PM	08:56PM	09:04PM
08:57PM	09:00PM	09:02PM	09:04PM	09:10PM	09:21PM	09:26PM	09:35PM	09:41PM	09:49PM

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Metrobus Routes Schedule





113 (Westbound) SATURDAY

ALTON RD & 39 ST	MT SINAI HOSPITAL	41 ST & ALTON RD	41 ST & MERIDIAN AV	INDIAN CREEK DR & 40 ST	LINCOLN RD & WASHINGTON AV	ALTON RD & LINCOLN RD	ALTON RD & 2 ST	5 ST & LENOX AV	OMNI TERMINAL / ARSHT METROMOV
-	06:10AM	06:12AM	06:13AM	06:17AM	06:24AM	06:29AM	06:36AM	06:41AM	06:48AM
07:07AM	07:10AM	07:12AM	07:14AM	07:19AM	07:28AM	07:33AM	07:41AM	07:47AM	07:55AM
-	08:00AM	08:02AM	08:04AM	08:09AM	08:19AM	08:24AM	08:33AM	08:39AM	08:47AM
08:57AM	09:00AM	09:03AM	09:05AM	09:11AM	09:22AM	09:28AM	09:38AM	09:44AM	09:54AM
09:57AM	10:00AM	10:03AM	10:05AM	10:11AM	10:22AM	10:28AM	10:38AM	10:44AM	10:54AM
10:57AM	11:00AM	11:03AM	11:05AM	11:11AM	11:22AM	11:28AM	11:38AM	11:44AM	11:54AM

11:57AM	12:00PM	12:03PM	12:05PM	12:11PM	12:22PM	12:28PM	12:38PM	12:44PM	12:54PM
12:57PM	01:00PM	01:03PM	01:05PM	01:11PM	01:22PM	01:28PM	01:38PM	01:44PM	01:54PM
01:57PM	02:00PM	02:03PM	02:05PM	02:11PM	02:22PM	02:28PM	02:38PM	02:44PM	02:54PM
-	03:00PM	03:03PM	03:05PM	03:11PM	03:22PM	03:28PM	03:38PM	03:44PM	03:54PM
03:57PM	04:00PM	04:02PM	04:04PM	04:10PM	04:21PM	04:27PM	04:37PM	04:43PM	04:53PM
04:57PM	05:00PM	05:02PM	05:04PM	05:10PM	05:21PM	05:27PM	05:37PM	05:43PM	05:53PM
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07:57PM	08:00PM	08:02PM	08:04PM	08:10PM	08:20PM	08:25PM	08:34PM	08:40PM	08:48PM
08:57PM	09:00PM	09:02PM	09:04PM	09:10PM	09:20PM	09:25PM	09:34PM	09:40PM	09:48PM

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Metrobus Routes Schedule





113 (Eastbound) SATURDAY

NW 21 AV & 22 ST	NW 12 AV & 15 ST	OMNI TERMINAL / ARSHT METROMOVER	ALTON RD & 2 ST	5 ST & LENOX AV	17 ST & LENOX AV	LINCOLN RD & JAMES AV	INDIAN CREEK DR & 43 ST	41 ST & MERIDIAN AV	41 ST & ALTON RD	MT HC
05:53AM	05:59AM	06:09AM	06:19AM	06:24AM	06:32AM	06:37AM	06:45AM	06:51AM	06:52AM	06:
07:25AM	07:32AM	07:43AM	07:53AM	07:59AM	08:08AM	08:14AM	08:24AM	08:31AM	08:33AM	08:
08:25AM	08:32AM	08:43AM	08:53AM	08:59AM	09:08AM	09:15AM	09:27AM	09:35AM	09:37AM	09:
09:25AM	09:33AM	09:45AM	09:57AM	10:03AM	10:12AM	10:19AM	10:31AM	10:39AM	10:41AM	10:
10:25AM	10:33AM	10:45AM	10:57AM	11:03AM	11:12AM	11:19AM	11:31AM	11:39AM	11:41AM	11:
11:25AM	11:33AM	11:45AM	11:57AM	12:03PM	12:12PM	12:19PM	12:31PM	12:39PM	12:41PM	12:

12:25PM	12:33PM	12:45PM	12:57PM	01:03PM	01:12PM	01:19PM	01:31PM	01:39PM	01:41PM	01:
01:25PM	01:33PM	01:45PM	01:57PM	02:03PM	02:12PM	02:19PM	02:31PM	02:39PM	02:41PM	02:
02:25PM	02:33PM	02:45PM	02:57PM	03:03PM	03:12PM	03:19PM	03:31PM	03:39PM	03:41PM	03:
03:25PM	03:33PM	03:45PM	03:57PM	04:03PM	04:12PM	04:19PM	04:30PM	04:37PM	04:39PM	04:
04:25PM	04:33PM	04:45PM	04:57PM	05:03PM	05:12PM	05:19PM	05:30PM	05:37PM	05:39PM	05:
05:25PM	05:33PM	05:45PM	05:57PM	06:03PM	06:12PM	06:19PM	06:30PM	06:37PM	06:39PM	06:
06:25PM	06:33PM	06:45PM	06:57PM	07:03PM	07:11PM	07:17PM	07:27PM	07:34PM	07:35PM	07:
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09:15PM	09:22PM	09:33PM	09:43PM	09:49PM	09:57PM	10:03PM	10:11PM	10:17PM	10:18PM	10:
10:15PM	10:21PM	10:31PM	10:41PM	10:46PM	10:53PM	10:58PM	11:06PM	11:12PM	11:13PM	11:

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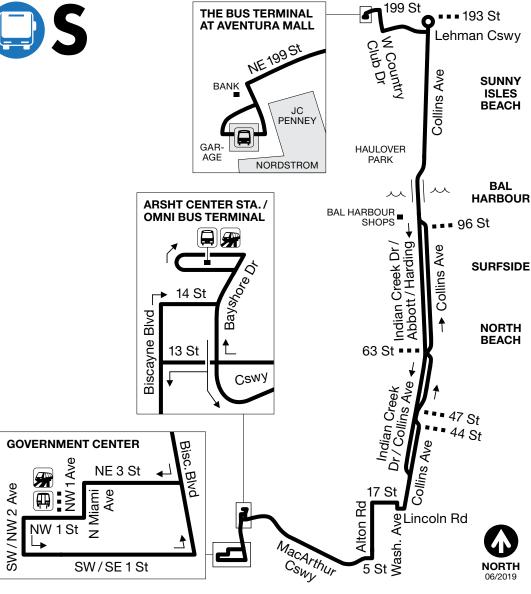
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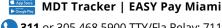


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Metrobus Routes Schedule





119 (Northbound) WEEKDAY

STEPHEN P CLARK CENTER	OMNI TERMINAL / ARSHT METROMOVER	ALTON RD & 6 ST	17 ST & LENOX AV	LINCOLN RD & JAMES AV	COLLINS AV & 43 ST	COLLINS AV & 69 ST	COLLINS AV & 96 ST	COLLINS AV AT 16900 BLK	COLLINS AV & 193 ST
05:00AM	05:09AM	05:16AM	05:22AM	05:27AM	05:33AM	05:41AM	05:49AM	05:55AM	06:03AM
05:24AM	05:33AM	05:40AM	05:46AM	05:51AM	05:57AM	06:08AM	06:18AM	06:26AM	06:34AM
05:36AM	05:45AM	05:52AM	05:58AM	06:04AM	06:12AM	06:23AM	06:33AM	06:41AM	06:49AM
05:48AM	05:57AM	06:05AM	06:12AM	06:18AM	06:26AM	06:37AM	06:47AM	06:55AM	07:05AM
06:00AM	06:12AM	06:20AM	06:27AM	06:33AM	06:41AM	06:52AM	07:03AM	07:12AM	07:22AM
06:15AM	06:27AM	06:35AM	06:42AM	06:48AM	06:56AM	07:09AM	07:20AM	07:29AM	07:39AM

06:30AM	06:42AM	06:50AM	06:57AM	07:03AM	07:11AM	07:24AM	07:35AM	07:44AM	07:54AM
06:45AM	06:57AM	07:07AM	07:15AM	07:21AM	07:29AM	07:42AM	07:53AM	08:03AM	08:13AM
06:59AM	07:12AM	07:22AM	07:30AM	07:36AM	07:44AM	07:57AM	08:08AM	08:18AM	08:28AM
07:15AM	07:28AM	07:38AM	07:46AM	07:52AM	08:01AM	08:14AM	08:25AM	08:35AM	08:45AM
07:30AM	07:43AM	07:53AM	08:01AM	08:08AM	08:17AM	08:30AM	08:41AM	08:51AM	09:01AM
07:45AM	07:58AM	08:09AM	08:17AM	08:24AM	08:33AM	08:46AM	08:57AM	09:07AM	09:17AM
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09:15AM	09:31AM	09:43AM	09:52AM	10:00AM	10:11AM	10:25AM	10:36AM	10:45AM	10:55AM
09:30AM	09:46AM	09:58AM	10:07AM	10:15AM	10:26AM	10:40AM	10:51AM	11:00AM	11:10AM
09:45AM	10:01AM	10:13AM	10:22AM	10:30AM	10:41AM	10:55AM	11:06AM	11:15AM	11:25AM
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03:30PM	03:46PM	03:59PM	04:09PM	04:18PM	04:29PM	04:44PM	04:55PM	05:05PM	05:14PM
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04:42PM	04:59PM	05:11PM	05:21PM	05:30PM	05:41PM	05:56PM	06:07PM	06:17PM	06:26PM
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05:42PM	05:59PM	06:11PM	06:21PM	06:30PM	06:41PM	06:56PM	07:07PM	07:15PM	07:23PM
05:54PM	06:11PM	06:23PM	06:33PM	06:42PM	06:53PM	07:08PM	07:17PM	07:25PM	07:33PM
06:06PM	06:23PM	06:35PM	06:45PM	06:54PM	07:05PM	07:17PM	07:26PM	07:34PM	07:42PM
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11:40PM	11:53PM	12:00AM	12:06AM	12:13AM	12:21AM	12:30AM	12:38AM	12:44AM	12:50AM

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Alice N. Bravo, P.E., Director

Overtown Transit Village North

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AWARDS OVERALL WINNER 2019

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Translate -

Miami-Dade County continues to monitor coronavirus (COVID-19). Get the latest updates.

MIAMIDADE

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We are asking customers to use public transit and STS services for essential trips only. Fares have been suspended for riders who depend on public transportation for essential trips. Transit services and trip frequencies have been adjusted. Some Metrobus express routes have been suspended. Customer Service and STS offices are closed until further notice. Please use our online services and mobile applications to stay connected.

Metrobus Routes Schedule





119 (Southbound) WEEKDAY

BUS TERMINAL AT AVENTURA MALL	COLLINS AV & 193 ST	COLLINS AV & 163 ST	BAL HARBOUR SHOPS	ABBOTT AV & 69 ST	INDIAN CREEK DR & 40 ST	LINCOLN RD & WASHINGTON AV	ALTON RD & LINCOLN RD	ALTON RD & 6 ST	OMNI TERMINA ARSHT METROM
04:16AM	04:23AM	04:29AM	04:35AM	04:44AM	04:52AM	04:58AM	05:03AM	05:08AM	05:14AM
04:53AM	05:00AM	05:06AM	05:12AM	05:21AM	05:29AM	05:35AM	05:40AM	05:45AM	05:51AM
05:13AM	05:20AM	05:26AM	05:32AM	05:41AM	05:49AM	05:55AM	06:01AM	06:07AM	06:15AM
05:28AM	05:35AM	05:41AM	05:47AM	05:56AM	06:07AM	06:15AM	06:21AM	06:27AM	06:35AM
05:46AM	05:53AM	05:59AM	06:06AM	06:16AM	06:27AM	06:35AM	06:41AM	06:47AM	06:55AM
05:59AM	06:08AM	06:16AM	06:23AM	06:33AM	06:44AM	06:52AM	06:58AM	07:04AM	07:12AM

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06:42AM	06:51AM	06:59AM	07:07AM	07:19AM	07:31AM	07:40AM	07:47AM	07:53AM	08:01AM
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Miami-Dade County continues to monitor coronavirus (COVID-19). Get the latest updates.

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Metrobus Routes Schedule





119 (Northbound) SATURDAY

STEPHEN P CLARK CENTER	OMNI TERMINAL / ARSHT METROMOVER	ALTON RD & 6 ST	17 ST & LENOX AV	LINCOLN RD & JAMES AV	COLLINS AV & 43 ST	COLLINS AV & 69 ST	COLLINS AV & 96 ST	COLLINS AV AT 16900 BLK	COLLINS AV & 193 ST
05:00AM	05:09AM	05:17AM	05:22AM	05:26AM	05:33AM	05:42AM	05:47AM	05:54AM	06:02AM
05:18AM	05:27AM	05:35AM	05:40AM	05:44AM	05:51AM	06:02AM	06:09AM	06:17AM	06:25AM
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06:49PM	07:03PM	07:13PM	07:23PM	07:29PM	07:40PM	07:52PM	08:01PM	08:09PM	08:18PM
07:04PM	07:17PM	07:27PM	07:37PM	07:43PM	07:54PM	08:06PM	08:15PM	08:23PM	08:32PM
07:19PM	07:32PM	07:42PM	07:52PM	07:58PM	08:09PM	08:21PM	08:30PM	08:38PM	08:47PM
07:34PM	07:47PM	07:57PM	08:07PM	08:13PM	08:24PM	08:36PM	08:45PM	08:53PM	09:02PM
07:49PM	08:02PM	08:12PM	08:22PM	08:28PM	08:39PM	08:51PM	09:00PM	09:08PM	09:17PM
08:05PM	08:18PM	08:28PM	08:38PM	08:44PM	08:55PM	09:07PM	09:16PM	09:24PM	09:33PM
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09:45PM	09:58PM	10:08PM	10:16PM	10:20PM	10:29PM	10:40PM	10:47PM	10:54PM	11:01PM
10:05PM	10:15PM	10:25PM	10:33PM	10:37PM	10:46PM	10:57PM	11:04PM	11:11PM	11:18PM
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10:45PM	10:55PM	11:05PM	11:13PM	11:17PM	11:26PM	11:37PM	11:44PM	11:51PM	11:58PM
11:10PM	11:20PM	11:30PM	11:38PM	11:42PM	11:51PM	12:02AM	12:07AM	12:14AM	12:21AM
11:40PM	11:50PM	12:00AM	12:06AM	12:10AM	12:17AM	12:26AM	12:31AM	12:38AM	12:45AM

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Miami-Dade County continues to monitor coronavirus (COVID-19). Get the latest updates.

MIAMIDADE

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We are asking customers to use public transit and STS services for essential trips only. Fares have been suspended for riders who depend on public transportation for essential trips. Transit services and trip frequencies have been adjusted. Some Metrobus express routes have been suspended. Customer Service and STS offices are closed until further notice. Please use our online services and mobile applications to stay connected.

Metrobus Routes Schedule





119 (Southbound) SATURDAY

BUS TERMINAL AT AVENTURA MALL	COLLINS AV & 193 ST	COLLINS AV & 163 ST	BAL HARBOUR SHOPS	ABBOTT AV & 69 ST	INDIAN CREEK DR & 40 ST	LINCOLN RD & WASHINGTON AV	ALTON RD & LINCOLN RD	ALTON RD & 6 ST	OMNI TERMINA ARSHT METROM
04:20AM	04:27AM	04:34AM	04:42AM	04:50AM	04:59AM	05:05AM	05:08AM	05:13AM	05:20AM
04:49AM	04:56AM	05:03AM	05:11AM	05:19AM	05:28AM	05:34AM	05:37AM	05:42AM	05:49AM
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05:41AM	05:48AM	05:55AM	06:03AM	06:12AM	06:22AM	06:30AM	06:34AM	06:40AM	06:47AM
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11:45PM 11:52PM 11:59PM 12:07AM 12:15AM 12:24AM 12:31AM 12:34AM 12:39AM 12:46AM

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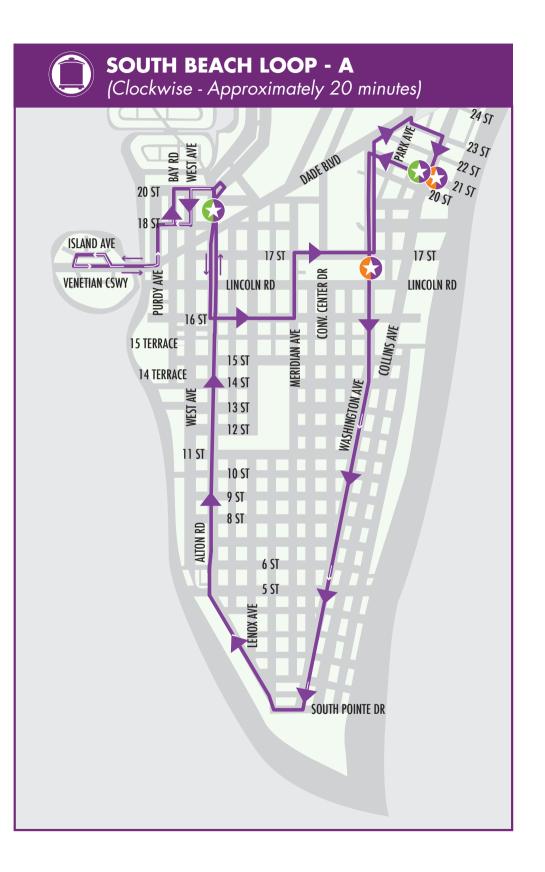
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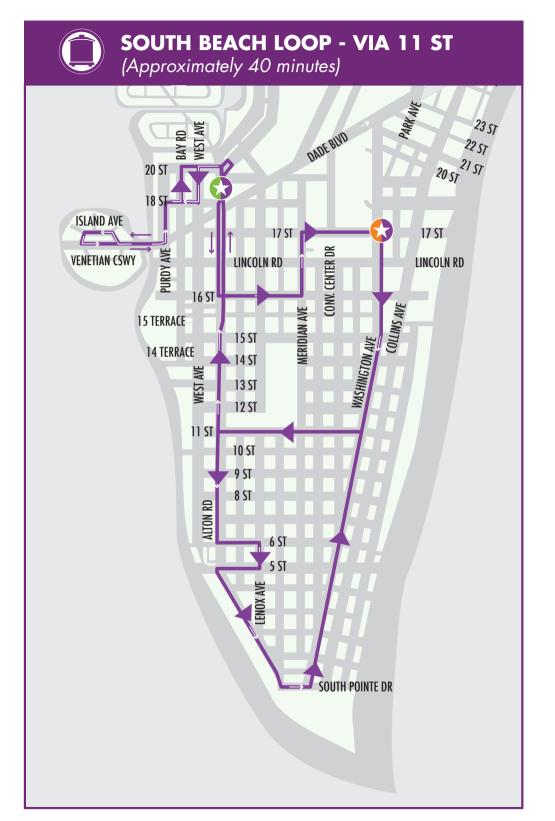
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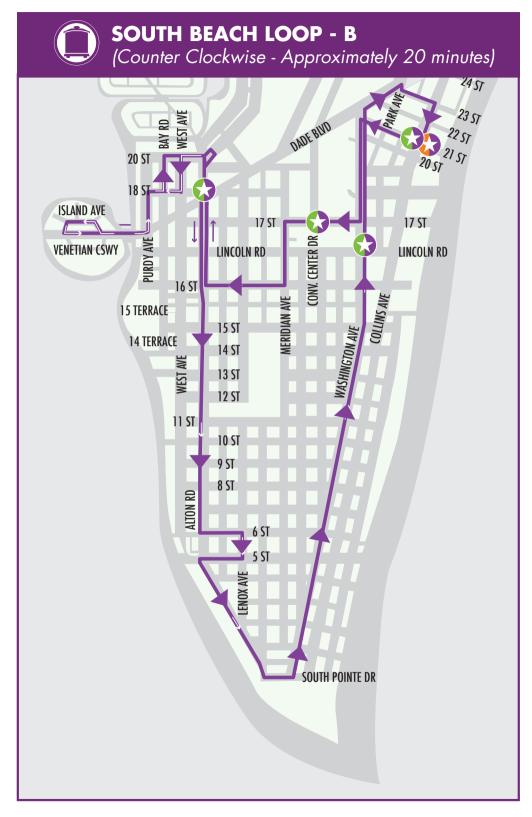
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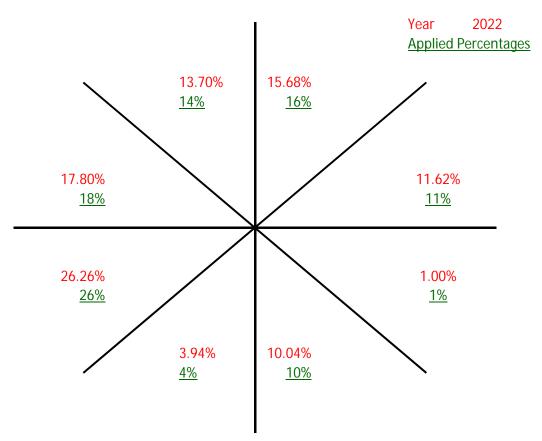




Attachment D-1

Cardinal Distribution

Cardinal Distribution for TAZ 642



Cardinal Trip Distribution

Cardinal Direction	Percentag	ge of Trips	2022	2022
Cardinal Direction	2015	2045	Interpolated	Rounded
North-Northeast	16.4%	14.60%	15.68%	16.00%
East-Northeast	12.5%	10.30%	11.62%	11.00%
East-Southeast	1.0%	1.00%	1.00%	1.00%
South-Southeast	11.2%	8.30%	10.04%	10.00%
South-Southwest	4.1%	3.70%	3.94%	4.00%
West-Southwest	23.9%	29.80%	26.26%	26.00%
West-Northwest	17.4%	18.40%	17.80%	18.00%
North-Northwest	13.5%	14.00%	13.70%	14.00%
Total	100.0%	100.1%	100.04%	100.00%

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		N	/liami-Dade	2015 Base	Year Direc	tion Trip C	Distributio	n Summary	/		
TAZ of	Origin	Tring /				Cardinal D	irections				Total
County TAZ	Regional TAZ	Trips / Percent	NNE	ENE	ESE	SSE	ssw	wsw	WNW	NNW	Total Trips
625	3525	Trips	610	160	-	557	431	1,317	679	1,035	4,961
625	3525	Percent	12.7	3.3	-	11.6	9.0	27.5	14.2	21.6	
626	3526	Trips	122	-	-	-	2,090	2,277	1,198	2,942	9,399
626	3526	Percent	1.4	-	-	-	24.2	26.4	13.9	34.1	
627	3527	Trips	279	-	-	-	2,051	2,578	845	1,965	8,061
627	3527	Percent	3.6	-	-	-	26.6	33.4	11.0	25.5	
628	3528	Trips	298	-	49	79	984	902	332	679	3,579
628	3528	Percent	9.0	-	1.5	2.4	29.6	27.2	10.0	20.5	
629	3529	Trips	1,374	549	344	1,656	1,708	3,707	1,668	2,101	14,261
629	3529	Percent	10.5	4.2	2.6	12.6	13.0	28.3	12.7	16.0	
630	3530	Trips	952	-	210	347	1,696	2,375	794	1,114	8,135
630	3530	Percent	12.7	-	2.8	4.6	22.7	31.7	10.6	14.9	
631	3531	Trips	255	-	-	-	1,215	1,471	440	1,030	4,651
631	3531	Percent	5.8	-	-	-	27.6	33.4	10.0	23.4	
632	3532	Trips	309	-	-	-	1,242	1,751	750	635	4,880
632	3532	Percent	6.6	-	-	-	26.5	37.4	16.0	13.5	
633	3533	Trips	310	-	-	-	1,181	1,428	750	730	4,590
633	3533	Percent	7.0	-	-	-	26.9	32.5	17.1	16.6	
634	3534	Trips	1,502	112	240	837	1,718	1,928	976	1,727	9,998
634	3534	Percent	16.6	1.2	2.7	9.3	19.0	21.3	10.8	19.1	
635	3535	Trips	779	-	-	-	2,021	1,994	952	1,411	8,010
635	3535	Percent	10.9	-	-	-	28.2	27.9	13.3	19.7	
636	3536	Trips	1,041	-	-	686	1,152	2,072	911	1,071	7,384
636	3536	Percent	15.0	-	-	9.9	16.6	29.9	13.1	15.4	
637	3537	Trips	323	31	87	217	126	601	303	290	1,987
637	3537	Percent	16.4	1.6	4.4	11.0	6.4	30.4	15.3	14.7	
638	3538	Trips	152	35	87	86	114	218	162	126	999
638	3538	Percent	15.5	3.6	8.9	8.7	11.6	22.3	16.5	12.9	
639	3539	Trips	825	281	277	1,089	131	1,364	796	599	5,721
639	3539	Percent	15.4	5.2	5.2	20.3	2.4	25.4	14.9	11.2	
640	3540	Trips	344	247	868	104	43	685	405	274	3,053
640	3540	Percent	11.6	8.3	29.2	3.5	1.5	23.1	13.6	9.2	
641	3541	Trips	1,051	1,714	291	723	309	1,572	1,188	916	8,356
641	3541	Percent	13.5	22.1	3.7	9.3	4.0	20.3	15.3	11.8	
642	3542	Trips	1,849	1,404	115	1,263	457	2,697	1,962	1,518	12,299
642	3542	Percent	16.4	12.5	1.0	11.2	4.1	23.9	17.4	13.5	
643	3543	Trips	1,747	551	-	965	479	2,595	1,554	1,715	10,383
643	3543	Percent	18.2	5.7	-	10.1	5.0	27.0	16.2	17.9	
644	3544	Trips	2,022	-	-	-	2,250	4,141	2,585	2,646	15,224
644	3544	Percent	14.8	-	-	-	16.5	30.4	19.0	19.4	
645	3545	Trips	1,268	-	-	-	907	1,498	1,720	1,351	7,018
645	3545	Percent	18.8	-	-	-	13.5	22.2	25.5	20.0	
646	3546	Trips	986	-	156	520	250	1,081	1,094	1,181	5,470
646	3546	Percent	18.7	-	3.0	9.9	4.7	20.5	20.8	22.4	
647	3547	Trips	350	103	114	165	66	354	359	408	1,979
647	3547	Percent	18.2	5.4	5.9	8.6	3.5	18.5	18.7	21.2	,
648	3548	Trips	1,027	434	254	401	48	903	1,001	514	4,747
648	3548	Percent	22.4	9.5	5.5	8.8	1.0	19.7	21.9	11.2	7
649	3549	Trips	754	192	184	230	41	612	743	427	3,320
649	3549	Percent	23.7	6.0	5.8	7.2	1.3	19.2	23.3	13.4	-,0
650	3550	Trips	45	80	104	0	14	155	304	133	850
650	3550	Percent	5.4	9.6	12.4	0.0	1.6	18.5	36.5	16.0	
050	3330	reiteilt	5.4	9.0	12.4	0.0	1.0	10.3	30.3	10.0	

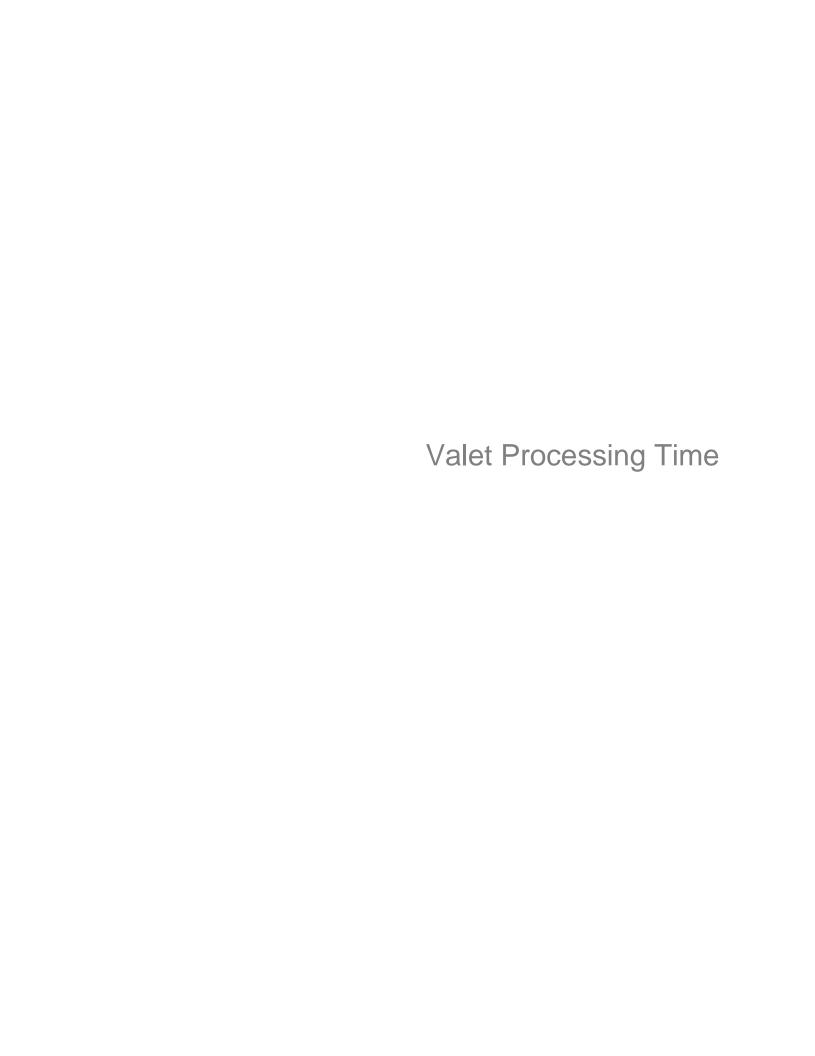
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		Mian	ni-Dade 204	5 Cost Fea	sible Plan I	Direction T	rip Distrib	ution Sum	mary		
TAZ of	Origin	- .,				Cardinal D	irections				Takal
County TAZ	Regional TAZ	Trips / Percent	NNE	ENE	ESE	SSE	SSW	WSW	WNW	NNW	Total Trips
625	3525	Trips	515	114	-	541	802	1,791	829	1,096	5,972
625	3525	Percent	9.1	2.0	-	9.5	14.1	31.5	14.6	19.3	
626	3526	Trips	66	-	-	-	2,417	3,260	1,417	2,993	11,237
626	3526	Percent	0.7	-	-	-	23.8	32.1	14.0	29.5	
627	3527	Trips	174	-	-	-	2,276	3,212	1,138	1,885	9,055
627	3527	Percent	2.0	-	-	-	26.2	37.0	13.1	21.7	
628	3528	Trips	238	-	23	101	1,053	1,266	390	660	4,028
628	3528	Percent	6.4	-	0.6	2.7	28.2	33.9	10.5	17.7	
629	3529	Trips	1,686	621	373	1,692	1,801	6,032	2,362	2,490	18,425
629	3529	Percent	9.9	3.6	2.2	9.9	10.6	35.4	13.9	14.6	
630	3530	Trips	888	-	326	303	1,717	3,876	1,515	1,553	11,277
630	3530	Percent	8.7	-	3.2	3.0	16.9	38.1	14.9	15.3	
631	3531	Trips	296	-	-	-	1,351	2,360	838	1,324	6,591
631	3531	Percent	4.8	-	-	-	21.9	38.3	13.6	21.5	
632	3532	Trips	343	-	-	-	1,500	2,647	1,390	1,098	7,499
632	3532	Percent	4.9	-	-	-	21.5	37.9	19.9	15.7	
633	3533	Trips	368	-	-	-	1,052	1,986	859	841	5,391
633	3533	Percent	7.2	-	-	-	20.6	38.9	16.8	16.5	
634	3534	Trips	1,404	80	149	773	1,637	2,733	1,332	1,712	10,593
634	3534	Percent	14.3	0.8	1.5	7.9	16.7	27.8	13.6	17.4	
635	3535	Trips	566	-	-	-	1,311	2,266	1,228	1,254	7,246
635	3535	Percent	8.5	-	-	-	19.8	34.2	18.5	18.9	
636	3536	Trips	1,066	-	-	607	978	3,045	1,398	1,193	8,805
636	3536	Percent	12.9	-	-	7.3	11.8	36.8	16.9	14.4	<u> </u>
637	3537	Trips	468	44	144	315	198	868	501	309	2,865
637	3537	Percent	16.5	1.6	5.1	11.1	6.9	30.5	17.6	10.9	<u> </u>
638	3538	Trips	127	33	78	94	79	401	285	185	1,342
638	3538	Percent	9.9	2.6	6.1	7.3	6.2	31.3	22.2	14.5	<u> </u>
639	3539	Trips	944	303	253	1,068	176	2,395	1,085	905	7,569
639	3539	Percent	13.2	4.3	3.6	15.0	2.5	33.6	15.2	12.7	,
640	3540	Trips	119	74	216	10	30	177	136	147	1,166
640	3540	Percent	13.1	8.2	23.7	1.1	3.4	19.4	14.9	16.2	_,,
641	3541	Trips	1,145	1,056	206	569	242	2,378	1,724	1,142	9,066
641	3541	Percent	13.5	12.5	2.4	6.7	2.9	28.1	20.4	13.5	3,000
642	3542		1,701	1,196	113	964	433	3,470	2,140	1,631	12,324
642	3542	Percent	14.6	10.3	1.0	8.3	3.7	29.8	18.4	14.0	,
643	3543	Trips	1,884	580	-	1,133	631	3,768	2,190	2,157	13,183
643	3543	Percent	15.3	4.7	-	9.2	5.1	30.5	17.7	17.5	_5,_55
644	3544	Trips	1,948	-	-	-	2,227	5,534	3,264	3,082	17,780
644	3544	Percent	12.1	-	-	-	13.9	34.5	20.3	19.2	17,700
645	3545	Trips	1,314	-	-	-	844	1,661	2,170	1,703	8,075
645	3545	Percent	17.1	-	-	-	11.0	21.6	28.2	22.1	0,073
646	3546	Trips	1,025	_	125	496	263	1,741	1,656	1,299	6,976
646	3546	Percent	15.5	-	1.9	7.5	4.0	26.4	25.1	19.7	0,570
647	3547	Trips	296	122	96	109	79	582	661	405	2,490
647	3547	Percent	12.6	5.2	4.1	4.6	3.4	24.8	28.1	17.3	2,430
648	3548	Trips	943	278	128	313	73	1,525	1,351	576	5,397
648	3548	Percent	18.2	5.4	2.5	6.0	1.4	29.4	26.0	11.1	3,331
649	3549	Trips	643	120	121	216	43	873	952	508	3,661
649	3549	Percent	18.5	3.4	3.5	6.2	1.3	25.1	27.4	14.6	3,001
650	3549	Trips	60	71	65	8	1.3	25.1	312	136	969
		-									303
650	3550	Percent	6.4	7.5	6.9	0.9	1.5	29.5	33.0	14.4	

Attachment E-1

Valet Analysis

16th Street Valet



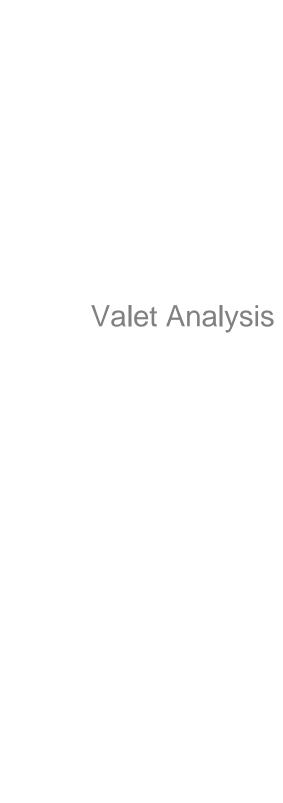
Valet Drop-off/Pick-Up Calculated Travel Time

Parking Garage Calculated Travel Time

	VALET DROP-OFF						
VEH	VEHICLE TRAVEL TIME			ATTENDANT TRAVEL TIME			
Travel Times (Assum	Travel Times (Assume 15 mph speed)		Travel Times (Assume	5 ft/s speed)			
To Vale	To Valet Garage (In vehicle)		Return from Valet Garage (Walk/Run) to Valet Area				
Distance	Travel 1	ime	Distance	Travel Time			
0.85 mile	es	3.4 minutes	0.129 miles	2.3 minutes			
Controlled Delay	1.5 Minutes						
Total Time	7.2 Minutes						

Parking Garage Calculated Travel Time

	VALET PICK-UP						
VALET ATT	VALET ATTENDANT TRAVEL TIME			VEHICLE TRAVEL TIME			
Travel Times (Assume	e 5 ft/s spe	ed)	Travel Times (Assume	15 mph speed)			
To Valet Garag	e (Walk/Run)		Return from Va	llet Garage (In Vehicle) to Valet Area			
Distance	Travel 1	Time	Distance	Travel Time			
0.129 miles	;	2.3 minutes	0.54 miles	2.2 minutes			
Controlled Delay	1.0 Minutes						
Total Time	5.5 Minutes						



Weekend Peak Hour Parking Garage Valet Drop-Off/Pick-Up Analysis

Arrival Rate

IN	OUT	
37	27	veh/hr

Number of Valet Attendants (N) = 10

Level of Confidence = 0.95

Storage Provided On-Site = 3 vehicles

Service Rate

IN	OUT	
7.20	5.50	mins/veh

Total Entering and Exiting Vehicles(q) = 64

Service Capacity per N (60 mins/Service Rate) (Q) = 9.26 veh/hr/pos

Average Service Rate (t) = 6.48 mins/veh

rho(t/Q) = 0.692

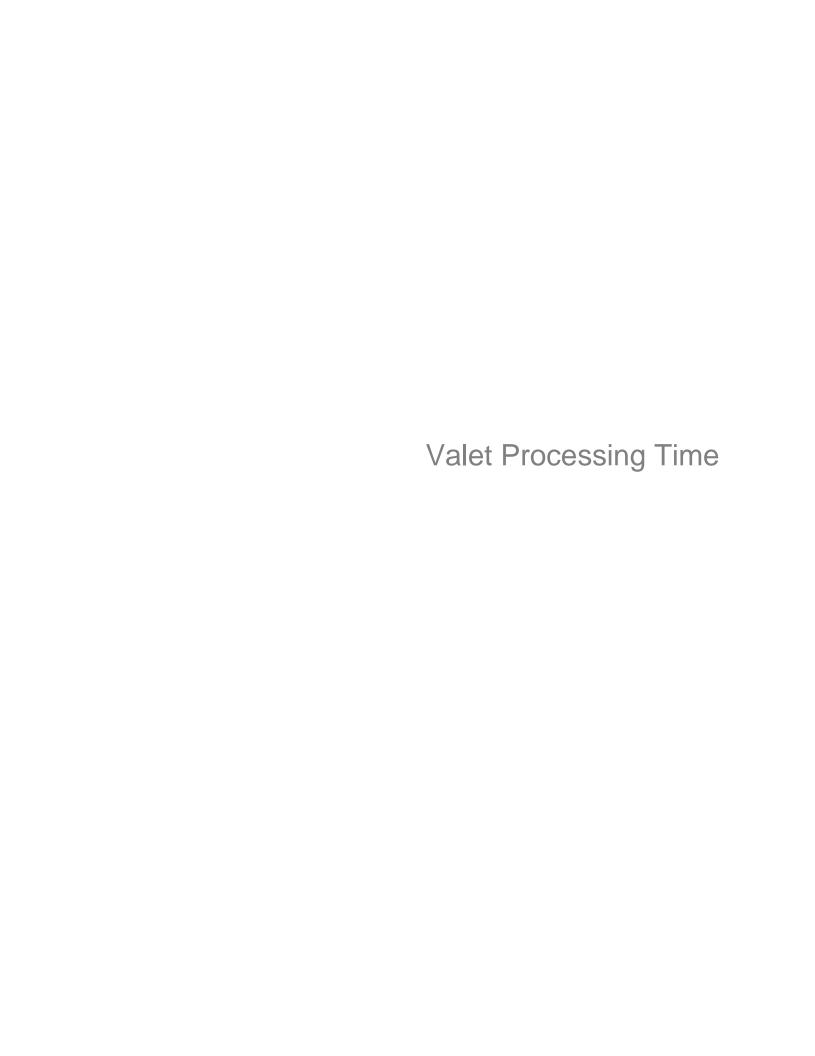
veh/hr

Expected (avg.) number of vehicles in the system E(m)=0.47Expected (avg.) number of vehicles waiting in queue E(n)=7.38Mean time in the queue E(w)=0.44 mins Mean time in system E(t)=6.92 mins

Proportion of customers who wait (P) (E(w) > 0) = 20.90%Probability of a queue exceeding a length (M) P(x > M) = 5.00%

Queue length which is exceeded 5.00% of the times is equal to 2.9 vehicles





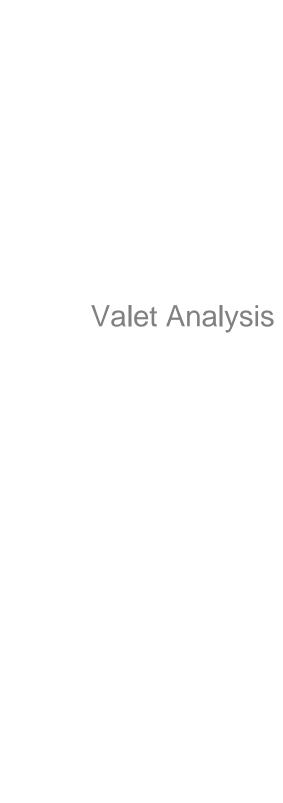
Valet Drop-off/Pick-Up Calculated Travel Time

Parking Garage Calculated Travel Time

	VALET DROP-OFF						
VEH	VEHICLE TRAVEL TIME			ATTENDANT TRAVEL TIME			
Travel Times (Assum	Travel Times (Assume 15 mph speed)		Travel Times (Assume	5 ft/s speed)			
To Vale	To Valet Garage (In vehicle)		Return from Valet Garage (Walk/Run) to Valet Area				
Distance	Travel 1	īme	Distance	Travel Time			
0.90 mile	es	3.6 minutes	0.152 miles	2.7 minutes			
Controlled Delay	2.0 Minutes						
Total Time	8.3 Minutes				ļ		

Parking Garage Calculated Travel Time

	VALET PICK-UP						
VALET AT	VALET ATTENDANT TRAVEL TIME			VEHICLE TRAVEL TIME			
Travel Times (Assum	ne 5 ft/s spe	ed)	Travel Times (Assume	15 mph speed)			
To Valet Gara	ge (Walk/Run)		Return from Val	let Garage (In Vehicle) to Valet Area			
Distance	Travel	Гime	Distance	Travel Time			
0.152 mile	es	2.7 minutes	0.83 miles	3.3 minutes			
Controlled Delay	1.5 Minutes						
Total Time	7.5 Minutes						



Weekend Peak Hour Parking Garage Valet Drop-Off/Pick-Up Analysis

Arrival Rate

IN	OUT	
37	27	veh/hr

Number of Valet Attendants (N) = 12

Level of Confidence = 0.95

Storage Provided On-Site =

3 vehicles

Service Rate

IN	OUT
8.30	7.50

mins/veh

Total Entering and Exiting Vehicles(q) = 64 veh/hr Service Capacity per N (60 mins/Service Rate) (Q) = 7.54 veh/hr/pos

Average Service Rate (t) = 7.96 mins/veh

rho(t/Q) = 0.708

Expected (avg.) number of vehicles in the system E(m) = 0.47Expected (avg.) number of vehicles waiting in queue E(n) = 8.97Mean time in the queue E(w) = 0.44

ean time in the queue E(w)= 0.44 mins

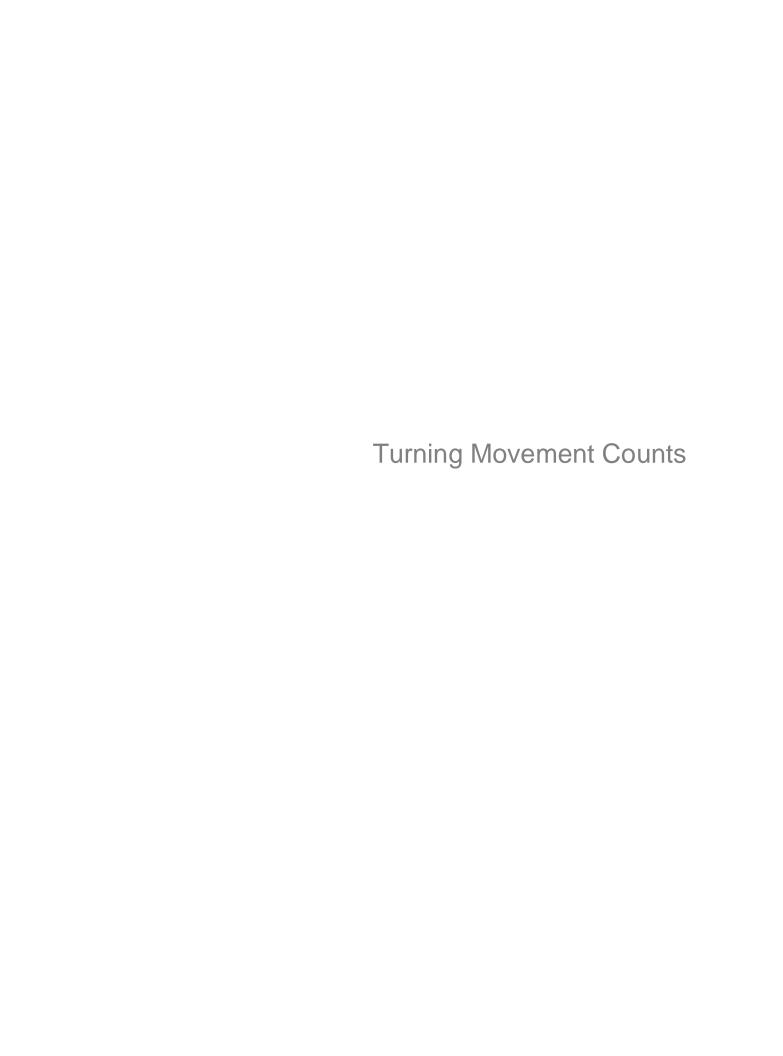
Mean time in system E(t)= 8.41 mins

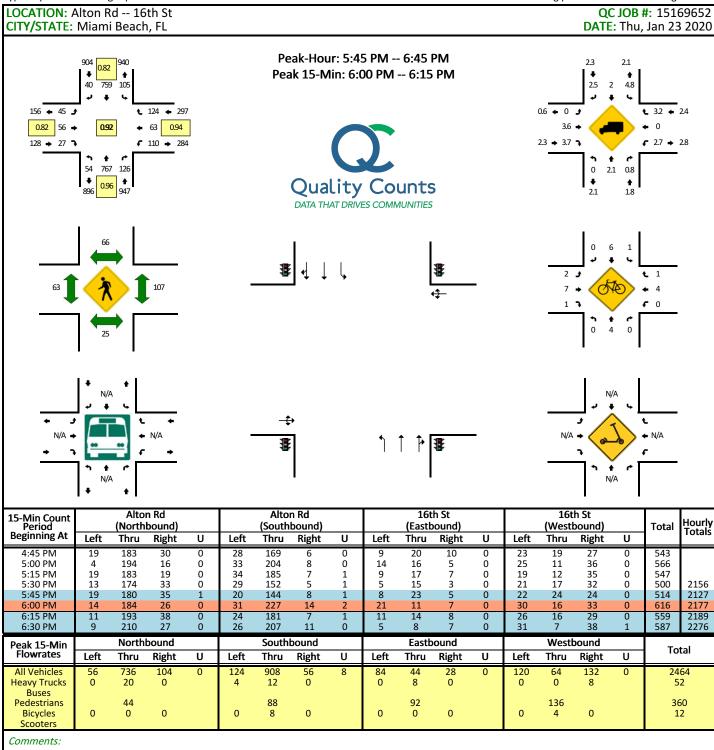
Proportion of customers who wait (P) (E(w) > 0) = 19.54%Probability of a queue exceeding a length (M) P(x > M) = 5.00%

Queue length which is exceeded 5.00% of the times is equal to 2.9 vehicles

Attachment F-1

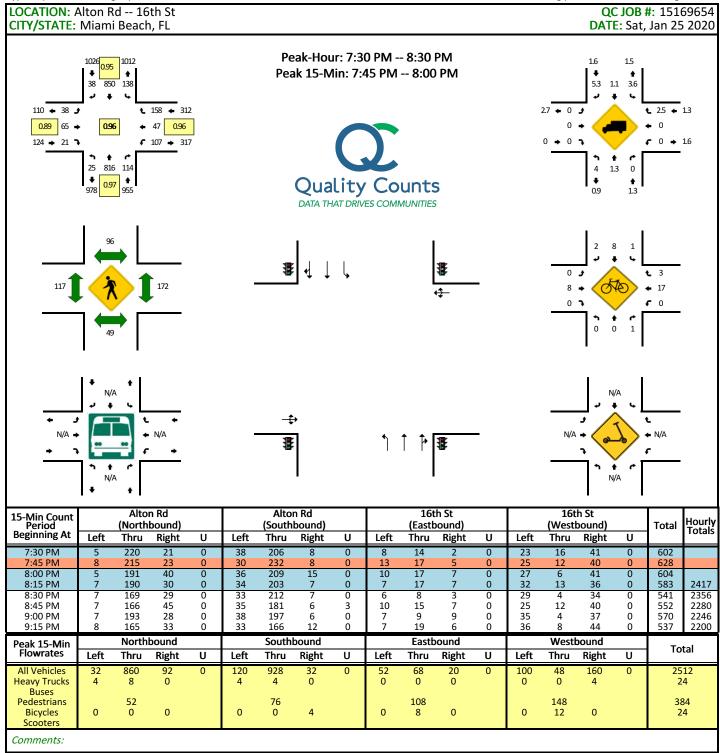
Traffic Data





Report generated on 3/30/2020 1:25 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212



Report generated on 3/30/2020 1:25 PM

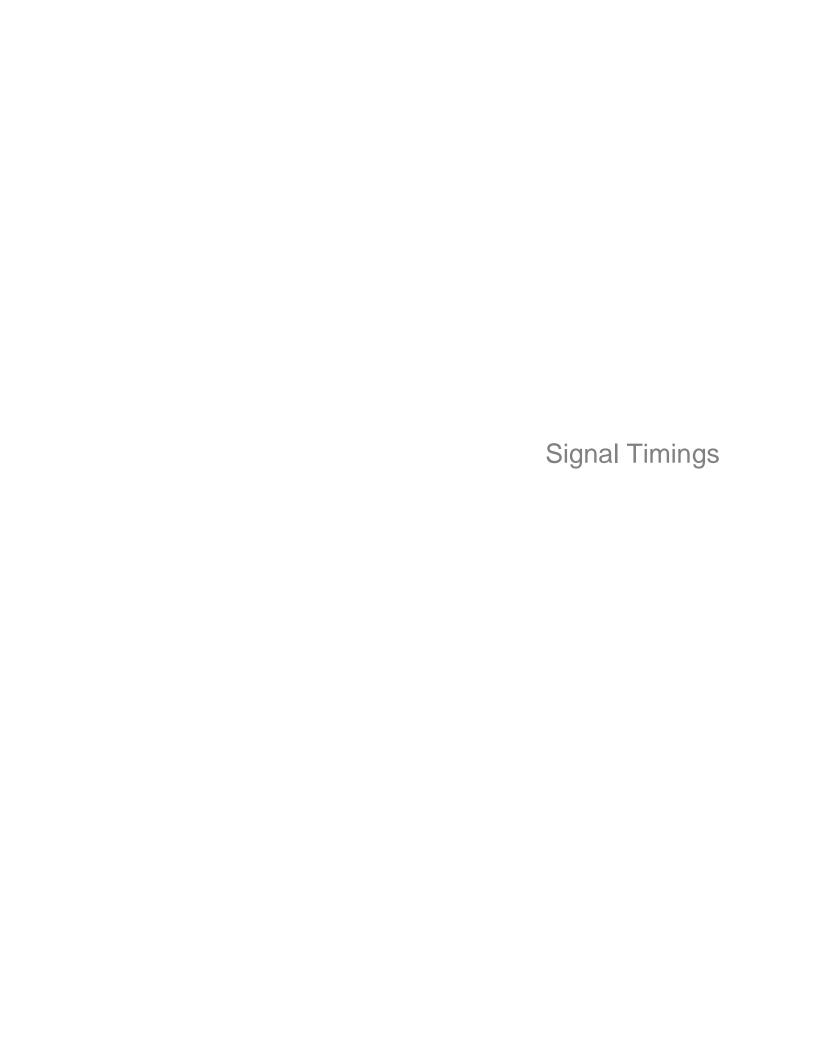
SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

FDOT Peak Season Category Factor Report

2019 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 8700 MIAMI-DADE NORTH

WEEK	DATES	SF	MOCF: 0.97 PSCF
1 2 3 4 * 5 * 6 * 7 * 8 * 9 * 10	01/01/2019 - 01/05/2019 01/06/2019 - 01/12/2019 01/13/2019 - 01/19/2019 01/20/2019 - 01/26/2019 01/27/2019 - 02/02/2019 02/03/2019 - 02/09/2019 02/10/2019 - 02/16/2019 02/17/2019 - 02/16/2019 02/17/2019 - 02/23/2019 02/24/2019 - 03/02/2019 03/03/2019 - 03/09/2019	1.03 1.02 1.01 1.00 0.98 0.97 0.96 0.96 0.96	1.06 1.05 1.04 1.03 1.01 1.00 0.99 0.99 0.99
*11 *12 *13 *14 *15 *16 *17 18 19 20 21 22	03/10/2019 - 03/16/2019 03/17/2019 - 03/23/2019 03/24/2019 - 03/30/2019 03/31/2019 - 04/06/2019 04/07/2019 - 04/13/2019 04/14/2019 - 04/20/2019 04/21/2019 - 04/27/2019 04/28/2019 - 05/04/2019 05/05/2019 - 05/11/2019 05/12/2019 - 05/18/2019 05/19/2019 - 05/25/2019 05/23/2019 - 06/01/2019	0.97 0.97 0.97 0.97 0.98 0.98 0.98 0.99 0.99 1.00 1.00	1.00 1.00 1.00 1.01 1.01 1.01 1.02 1.02 1.03 1.03 1.03
23 24 25 26 27 28 29 30 31 32 33 34 35	06/02/2019 - 06/08/2019 06/09/2019 - 06/15/2019 06/16/2019 - 06/22/2019 06/23/2019 - 06/29/2019 06/30/2019 - 07/06/2019 07/07/2019 - 07/13/2019 07/14/2019 - 07/20/2019 07/21/2019 - 07/27/2019 07/28/2019 - 08/03/2019 08/04/2019 - 08/10/2019 08/11/2019 - 08/17/2019 08/18/2019 - 08/24/2019 08/25/2019 - 08/31/2019 09/01/2019 - 09/07/2019	1.01 1.02 1.02 1.02 1.02 1.03 1.03 1.03 1.02 1.02 1.02 1.02	1.04 1.05 1.05 1.05 1.05 1.06 1.06 1.05 1.05 1.05 1.05
37 38 39 40 41 42 43 44 45 46 47 48 50 51 52 53	09/08/2019 - 09/14/2019 09/15/2019 - 09/21/2019 09/22/2019 - 09/28/2019 09/29/2019 - 10/05/2019 10/06/2019 - 10/12/2019 10/13/2019 - 10/19/2019 10/20/2019 - 10/26/2019 10/27/2019 - 11/02/2019 11/03/2019 - 11/09/2019 11/10/2019 - 11/16/2019 11/17/2019 - 11/30/2019 11/24/2019 - 11/30/2019 12/01/2019 - 12/07/2019 12/08/2019 - 12/14/2019 12/15/2019 - 12/21/2019 12/22/2019 - 12/28/2019 12/29/2019 - 12/31/2019	1.03 1.03 1.02 1.01 1.00 0.99 1.00 1.00 1.01 1.01 1.02 1.02 1.02 1.03 1.03 1.03	1.06 1.06 1.05 1.04 1.03 1.02 1.03 1.03 1.04 1.04 1.05 1.05 1.05 1.05 1.06 1.06 1.06

^{*} PEAK SEASON



Print Time: 4:48 PM

<u> </u>									7.70 I W
		TOD .		"		0.00	<u>TOD</u>	Active_	<u>Active</u>
<u>Asset</u>	<u>Intersection</u>	<u>Schedule</u> <u>O</u> j	p Mode	<u>Plan #</u>	<u>Cycle</u>	<u>Offset</u>	<u>Setting</u>	PhaseBank	<u>Maximum</u>
2645	Alton Rd&16 St	DOW-3		[10] PRE-PM PEAK	150	130	N/A	1	Max 2

<u>Splits</u>

<u>PH 1</u>	<u>PH 2</u>	<u>PH 3</u>	<u>PH 4</u>	<u>PH 5</u>	<u>PH 6</u>	<u>PH 7</u>	<u>PH 8</u>
NBL	SBT	-	WBT	SBL	NBT	-	EBT
12	84	0	36	12	84	0	36









Active Phase	e 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	15 - 8 - 8	4	2
2 SBT	7 - 7 - 7	7 14 - 14 - 14	5 - 5 - 5	1 - 1 - 1	40 - 40 - 40	0 - 0 - 0	4	2
3 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
4 WBT	7 - 7 - 7	7 24 - 24 - 24	7 - 7 - 7	2.5 - 2.5 - 2.5	12 - 12 - 12	36 - 29 - 29	4	2.1
5 SBL	0 - 0 - 0	0 - 0 - 0	5 - 5 - 5	2 - 2 - 2	5 - 5 - 5	15 - 8 - 8	4	2
6 NBT	7 - 7 - 7	7 14 - 14 - 14	5 - 5 - 5	1 - 1 - 1	40 - 40 - 40	0 - 0 - 0	4	2
7 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
8 EBT	7 - 7 -	7 24 - 24 - 24	7 - 7 - 7	2.5 - 2.5 - 2.5	12 - 12 - 12	36 - 29 - 29	4	2.1

Last In Service Date: unknown

Permitted Phases	
	<u>12345678</u>
Default	12-456-8
External Permit 0	12-456-8
External Permit 1	-2-4-6-8
External Permit 2	-2-4-6-8

	<u>Green Time</u>												
<u>Current</u> TOD Schedule	<u>Plan</u>	<u>Cycle</u>	1 NBL	2 SBT	3	4 WBT	5 SBL	6 NBT	7 -	8 EBT	Ring Offset	<u>Offset</u>	
	1	100	7	44	0	31	7	44	0	31	0	0	
	3	120	7	64	0	31	7	64	0	31	0	100	
	5	150	13	84	0	35	13	84	0	35	0	70	
	10	150	12	84	0	36	12	84	0	36	0	130	
	13	130	12	69	0	31	12	69	0	31	0	38	
	19	120	10	61	0	31	10	61	0	31	0	30	
	20	140	12	74	0	36	12	74	0	36	0	98	
	21	140	9	80	0	33	9	80	0	33	0	70	
	22	120	13	58	0	31	13	58	0	31	0	15	
	25	140	6	80	0	36	6	80	0	36	0	56	
	26	200	6	140	0	36	6	140	0	36	0	164	
	27	180	6	120	0	36	6	120	0	36	0	84	

Local TO	D Schedule		
<u>Time</u>	<u>Plan</u>	<u>DOW</u>	
0000	1	Su M T W Th F	S
0600	3	Su M T W Th F	S
0800	5	M T W Th F	
0800	19	Su	S
1000	20	Su	S
1300	10	M T W Th F	
1900	13	Su M T W Th F	S
2000	22	Su	S

Curren	t 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	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 MULTIFUN	SuM T W ThF S								
0500	TOD LOCAL MULTIFUN	VCT	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

No Calendar Defined/Enabled

SIGNAL OPERATING PLAN																	
	D	irection	N	В	S	SB EB WB						Ped F	leads			N	
Timing Phases	Н	ead No.	1/6	6	5/2	2		8		4	P2	P6	P4	P8	Movements	/Display/Actuati	on
(1+5)		Dwell	<g r<="" td=""><td>R</td><td><g r<="" td=""><td>R</td><td></td><td>R</td><td></td><td>R</td><td>DW</td><td>DW</td><td>DW</td><td>DW</td><td>1 9</td><td></td><td></td></g></td></g>	R	<g r<="" td=""><td>R</td><td></td><td>R</td><td></td><td>R</td><td>DW</td><td>DW</td><td>DW</td><td>DW</td><td>1 9</td><td></td><td></td></g>	R		R		R	DW	DW	DW	DW	1 9		
	С	(1+6)	<g r<="" td=""><td>R</td><td><y r<="" td=""><td>R</td><td></td><td>R</td><td></td><td>R</td><td>DW</td><td>DW</td><td>DW</td><td>DW</td><td></td><td>2/5</td><td></td></y></td></g>	R	<y r<="" td=""><td>R</td><td></td><td>R</td><td></td><td>R</td><td>DW</td><td>DW</td><td>DW</td><td>DW</td><td></td><td>2/5</td><td></td></y>	R		R		R	DW	DW	DW	DW		2/5	
N/SBLT	e	(2+5)	<y r<="" td=""><td>R</td><td><g r<="" td=""><td>R</td><td></td><td>R</td><td></td><td>R</td><td>DW</td><td>DW</td><td>DW</td><td>DW</td><td></td><td>•</td><td></td></g></td></y>	R	<g r<="" td=""><td>R</td><td></td><td>R</td><td></td><td>R</td><td>DW</td><td>DW</td><td>DW</td><td>DW</td><td></td><td>•</td><td></td></g>	R		R		R	DW	DW	DW	DW		•	
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Attachment G-1

Growth Rate Calculations

FDOT Growth Rate Summary

Station Number	Station Number Location		Historic Growth- Linear			Historic Growth- Exponential			Historic Growth- Decaying Exponential				
			R-squared	10-year	R-squared	5-year	R-squared	10-year	R-squared	5-year	R-squared	10-year	R-squared
2542	SR 907/Alton Road 200 feet south of Venetian Causeway	-1.93%	7.56%	-1.28%	12.81%	-1.65%	5.10%	-1.27%	11.70%	-3.28%	21.15%	-1.75%	20.63%
8415	West Avenue 100 feet north of 12th Street	-1.27%	75.00%	-	-	-1.29%	75.00%	-	-	-1.07%	60.25%	-	-
8566	15th Street 200 feet east of Jefferson Avenue	-1.30%	9.78%	-	-	-1.32%	10.00%	-	-	-1.64%	15.90%	-	-
8567 16th Street 200 feet east of Meridian Avenue		-9.02%	76.98%	-	-	-11.62%	72.71%	-	-	-9.07%	58.12%	-	-
Total			42.33%	-1.28%	12.81%	-3.97%	40.70%	-1.27%	11.70%	-3.77%	38.86%	-1.75%	20.63%

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2019 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 2542 - SR 907/ALTON RD, 200' S OF VENETIAN CSWY

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2019	35000 F	N 17500	S 17500	9.00	54.60	3.50
2018	35000 C	N 17500	S 17500	9.00	54.30	3.50
2017	33000 C	N 16500	S 16500	9.00	55.00	2.80
2016	30000 C	N 15000	S 15000	9.00	54.50	5.90
2015	41000 C	N 21000	S 20000	9.00	54.70	1.60
2014	30500 F	N 14000	S 16500	9.00	54.50	7.60
2013	30500 C	N 14000	S 16500	9.00	52.40	7.60
2012	37000 C	N 19000	S 18000	9.00	55.70	7.50
2011	39500 C	N 19000	S 20500	9.00	55.10	1.50
2010	39000 C	N 20000	S 19000	8.98	54.08	1.50
2009	38500 C	N 19000	S 19500	8.99	53.24	6.20
2008	37500 C	N 17500	S 20000	9.09	55.75	4.80
2007	39500 C	N 18500	S 21000	8.01	54.34	5.20
2006	36500 C	N 17500	S 19000	7.97	54.22	1.60
2005	34000 C	N 17000	S 17000	8.80	53.80	9.30
2004	39000 C	N 18500	S 20500	9.00	53.30	9.30

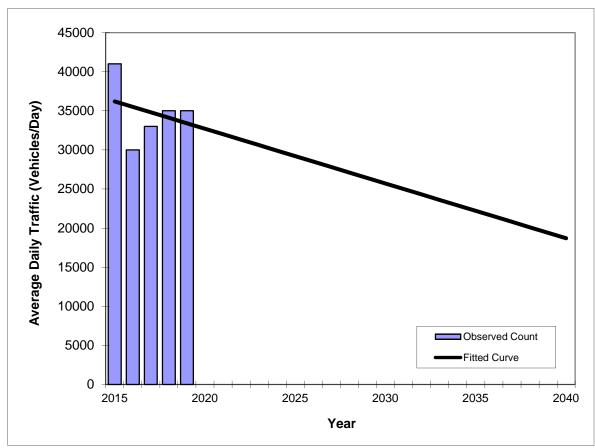
AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

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 907/Alton Road -- 200 feet south of Venetian Causeway

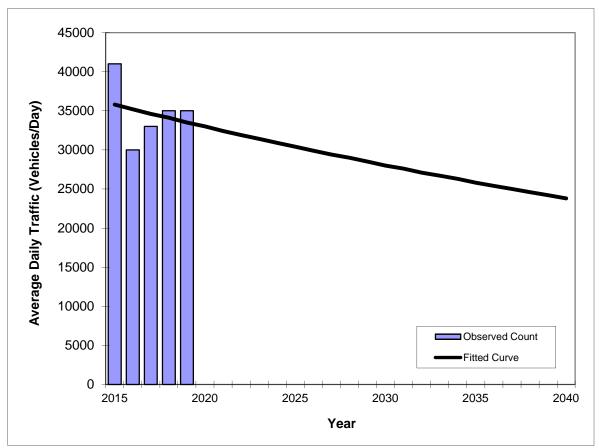


	Traffic (ADT/AADT)					
Year	Count*	Trend**				
2015	41000	36200				
2016	30000	35500				
2017	33000	34800				
2018	35000	34100				
2019	35000	33400				

Trend R-squared: 7.56%
Trend Annual Historic Growth Rate: -1.93%
Printed: 28-May-20
Straight Line Growth Option

*Axle-Adjusted

Traffic TrendsSR 907/Alton Road -- 200 feet south of Venetian Causeway

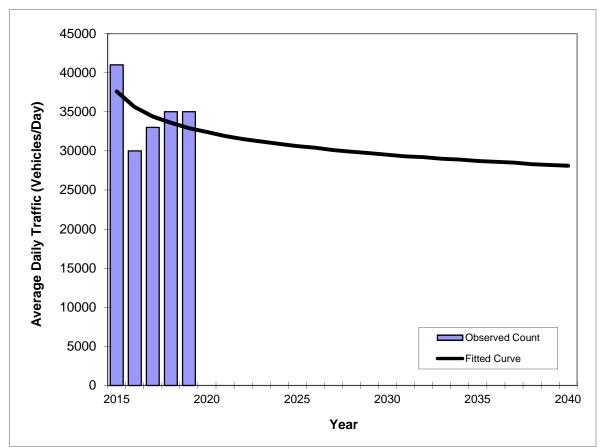


	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2015	41000	35800			
2016	30000	35200			
2017	33000	34600			
2018	35000	34100			
2019	35000	33500			

Trend R-squared: 5.10%
Compounded Annual Historic Growth Rate: -1.65%
Printed: 28-May-20
Exponential Growth Option

*Axle-Adjusted

Traffic TrendsSR 907/Alton Road -- 200 feet south of Venetian Causeway



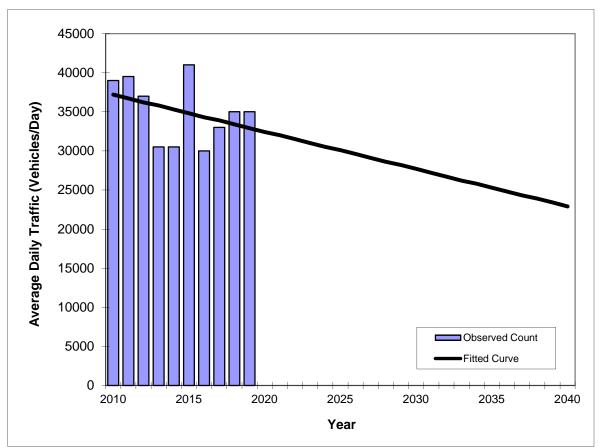
	Traffic (ADT/AADT)					
Year	Count*	Trend**				
2015	41000	37600				
2016	30000	35600				
2017	33000	34400				
2018	35000	33600				
2019	35000	32900				

Trend R-squared: 21.15%
Compounded Annual Historic Growth Rate: -3.28%
Printed: 28-May-20

Decaying Exponential Growth Option

*Axle-Adjusted

Traffic Trends
SR 907/Alton Road -- 200 feet south of Venetian Causeway



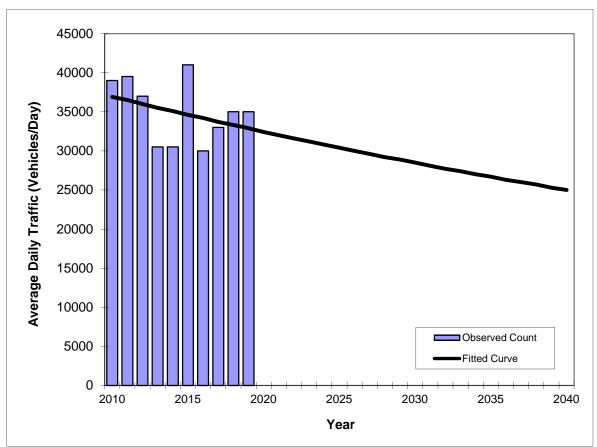
	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2010	39000	37200			
2011	39500	36700			
2012	37000	36200			
2013	30500	35800			
2014	30500	35300			
2015	41000	34800			
2016	30000	34300			
2017	33000	33900			
2018	35000	33400			
2019	35000	32900			
ı					

Trend R-squared: 12.81%
Trend Annual Historic Growth Rate: -1.28%
Printed: 28-May-20

Straight Line Growth Option

*Axle-Adjusted

Traffic Trends
SR 907/Alton Road -- 200 feet south of Venetian Causeway



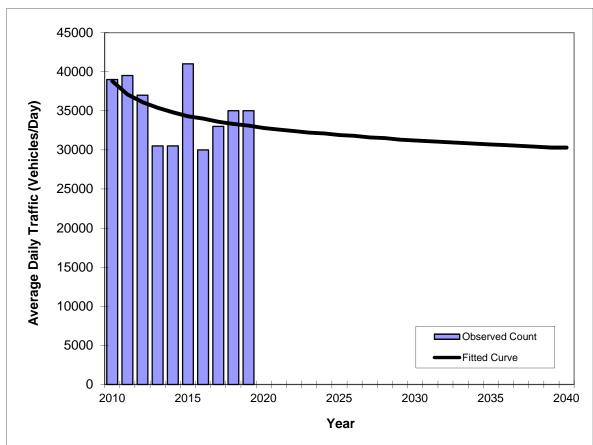
	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2010	39000	36900			
2011	39500	36500			
2012	37000	36000			
2013	30500	35500			
2014	30500	35100			
2015	41000	34600			
2016	30000	34200			
2017	33000	33700			
2018	35000	33300			
2019	35000	32900			

Trend R-squared: 11.70%
Compounded Annual Historic Growth Rate: -1.27%
Printed: 28-May-20

Exponential Growth Option

*Axle-Adjusted

Traffic Trends
SR 907/Alton Road -- 200 feet south of Venetian Causeway



	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2010	39000	38800			
2011	39500	37100			
2012	37000	36100			
2013	30500	35400			
2014	30500	34800			
2015	41000	34300			
2016	30000	34000			
2017	33000	33600			
2018	35000	33300			
2019	35000	33100			

Trend R-squared: 20.63%
Compounded Annual Historic Growth Rate: -1.75%
Printed: 28-May-20

Decaying Exponential Growth Option

*Axle-Adjusted

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2019 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 8415 - WEST AVE, 100 FT N OF 12TH ST MIAMI BEACH(2011 OFFSYS)

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2019	22500 F	N 11500	S 11000	9.00	56.00	4.00
2018	22500 C	N 11500	S 11000	9.00	54.30	3.00
2017	23500 T	N 10500	S 13000	9.00	59.30	2.50
2016	23500 S	N 10500	S 13000	9.00	56.10	5.10
2015	23500 F	N 10500	S 13000	9.00	57.40	7.10
2014	23500 C	N 10500	S 13000	9.00	59.30	10.70
2013	15000 F	0	0	9.00	58.90	16.20
2012	15000 C	N 0	s 0	9.00	59.70	16.00

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

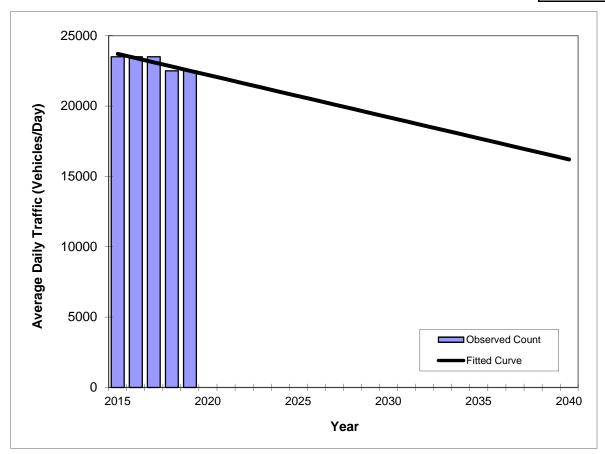
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE

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 West Avenue -- 100 feet north of 12th Street

County: Miami (87)
Station #: 8415
Highway: West Avenue



	Traffic (ADT/AADT)				
Year	Count*	Trend**			
2015	23500	23700			
2016	23500	23400			
2017	23500	23100			
2018	22500	22800			
2019	22500	22500			

Trend R-squared: 75.00%
Trend Annual Historic Growth Rate: -1.27%
Printed: 28-May-20
Straight Line Growth Option

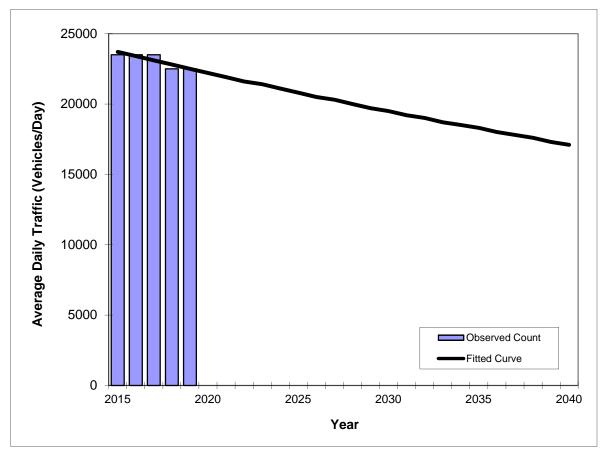
*Axle-Adjusted

Traffic Trends West Avenue -- 100 feet north of 12th Street

 County:
 Miami (87)

 Station #:
 8415

 Highway:
 West Avenue



	Traffic (ADT/AADT)					
Year	Count*	Trend**				
2015	23500	23700				
2016	23500	23400				
2017	23500	23100				
2018	22500	22800				
2019	22500	22500				
ĺ						

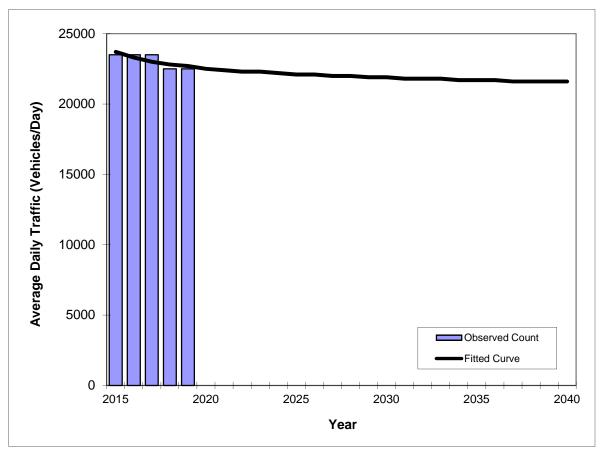
Trend R-squared: 75.00%
Compounded Annual Historic Growth Rate: -1.29%
Printed: 28-May-20

Exponential Growth Option

*Axle-Adjusted

Traffic Trends West Avenue -- 100 feet north of 12th Street

County: Miami (87)
Station #: 8415
Highway: West Avenue



	Traffic (ADT/AADT)					
Year	Count*	Trend**				
2015	23500	23700				
2016	23500	23300				
2017	23500	23000				
2018	22500	22800				
2019	22500	22700				

Trend R-squared: 60.25%
Compounded Annual Historic Growth Rate: -1.07%
Printed: 28-May-20

Decaying Exponential Growth Option

*Axle-Adjusted

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2019 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 8566 - 15 ST, 200' EAST OFJEFFERSON AVE (2011 OFF SYSTEM CYCLE)

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2019	7800 C	E 3900	W 3900	9.00	56.00	4.00
2018	6700 T	E 4000	W 2700	9.00	54.30	3.00
2017	7500 S	E 4500	W 3000	9.00	59.30	2.50
2016	7600 F	E 4600	W 3000	9.00	56.10	5.10
2015	7800 C	E 4700	W 3100	9.00	57.40	7.10
2014	9100 S			9.00	59.30	10.70
2013	9200 F	0	0	9.00	58.90	16.20
2012	9200 C	E 0	W O	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

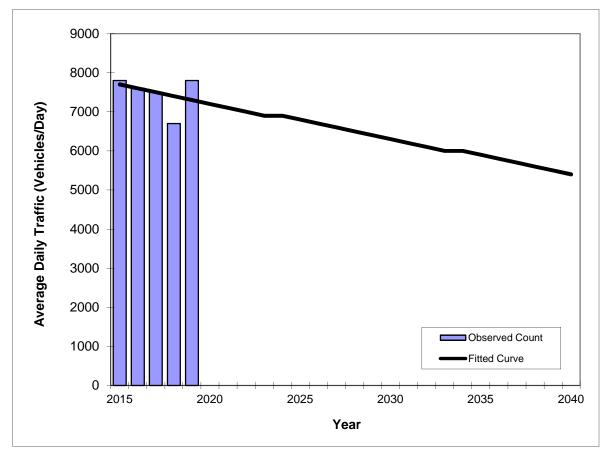
Traffic Trends

15th Street -- 200 feet east of Jefferson Avenue

 County:
 Miami (87)

 Station #:
 8566

 Highway:
 15th Street



	Traffic (ADT/AADT)			
Year	Count*	Trend**		
2015	7800	7700		
2016	7600	7600		
2017	7500	7500		
2018 2019	6700	7400		
2019	7800	7300		

Trend R-squared: 9.78%
Trend Annual Historic Growth Rate: -1.30%
Printed: 28-May-20
Straight Line Growth Option

*Axle-Adjusted

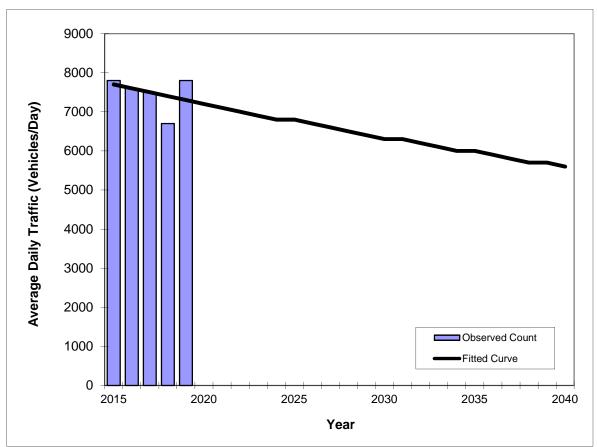
Traffic Trends

15th Street -- 200 feet east of Jefferson Avenue

 County:
 Miami (87)

 Station #:
 8566

 Highway:
 15th Street



Trend R-squared: 10.00%
Compounded Annual Historic Growth Rate: -1.32%
Printed: 28-May-20
Exponential Growth Option

*Axle-Adjusted

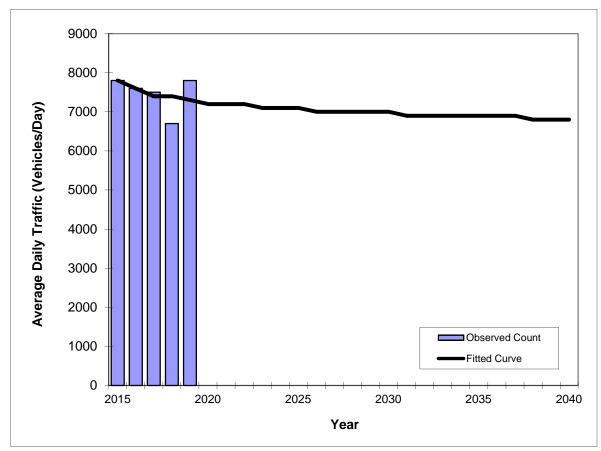
Traffic Trends

15th Street -- 200 feet east of Jefferson Avenue

 County:
 Miami (87)

 Station #:
 8566

 Highway:
 15th Street



	Traffic (ADT/AADT)			
Year	Count*	Trend**		
2015	7800	7800		
2016	7600	7600		
2017	7500	7400		
2018	6700	7400		
2019	7800	7300		
l				

Trend R-squared: 15.90%
Compounded Annual Historic Growth Rate: -1.64%
Printed: 28-May-20

Decaying Exponential Growth Option

*Axle-Adjusted

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2019 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

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

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2019	5300 C	E 2600	W 2700	9.00	56.00	4.00
2018	7800 T	E 3800	W 4000	9.00	54.30	3.00
2017	8700 S	E 4200	W 4500	9.00	59.30	2.50
2016	8900 F	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	M O	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

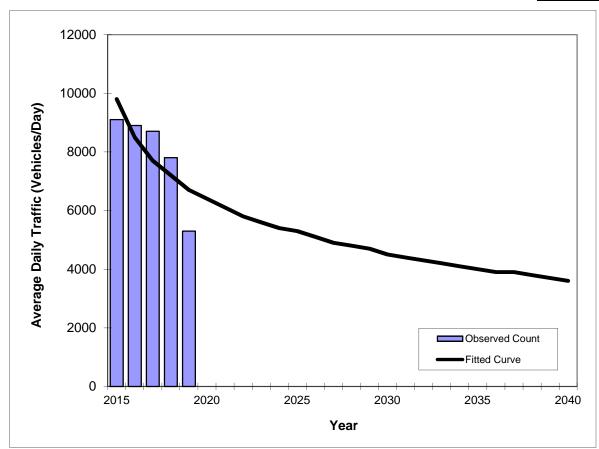
Traffic Trends

16th Street -- 200 feet east of Meridian Avenue

 County:
 Miami (87)

 Station #:
 8567

 Highway:
 16th Street



	Traffic (ADT/AADT)			
Year	Count*	Trend**		
2015	9100	9800		
2016	8900	8500		
2017	8700	7700		
2018	7800	7200		
2019	5300	6700		

Trend R-squared: 58.12%
Compounded Annual Historic Growth Rate: -9.07%
Printed: 28-May-20

Decaying Exponential Growth Option

*Axle-Adjusted

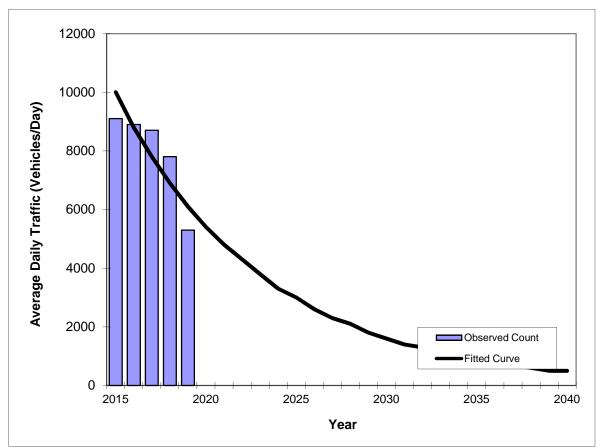
Traffic Trends

16th Street -- 200 feet east of Meridian Avenue

 County:
 Miami (87)

 Station #:
 8567

 Highway:
 16th Street



Trend R-squared: 72.71%
Compounded Annual Historic Growth Rate: -11.62%
Printed: 28-May-20

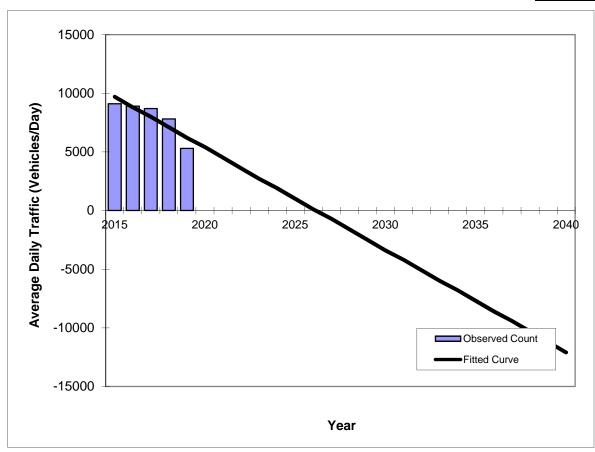
Exponential Growth Option

*Axle-Adjusted

Traffic Trends

16th Street -- 200 feet east of Meridian Avenue

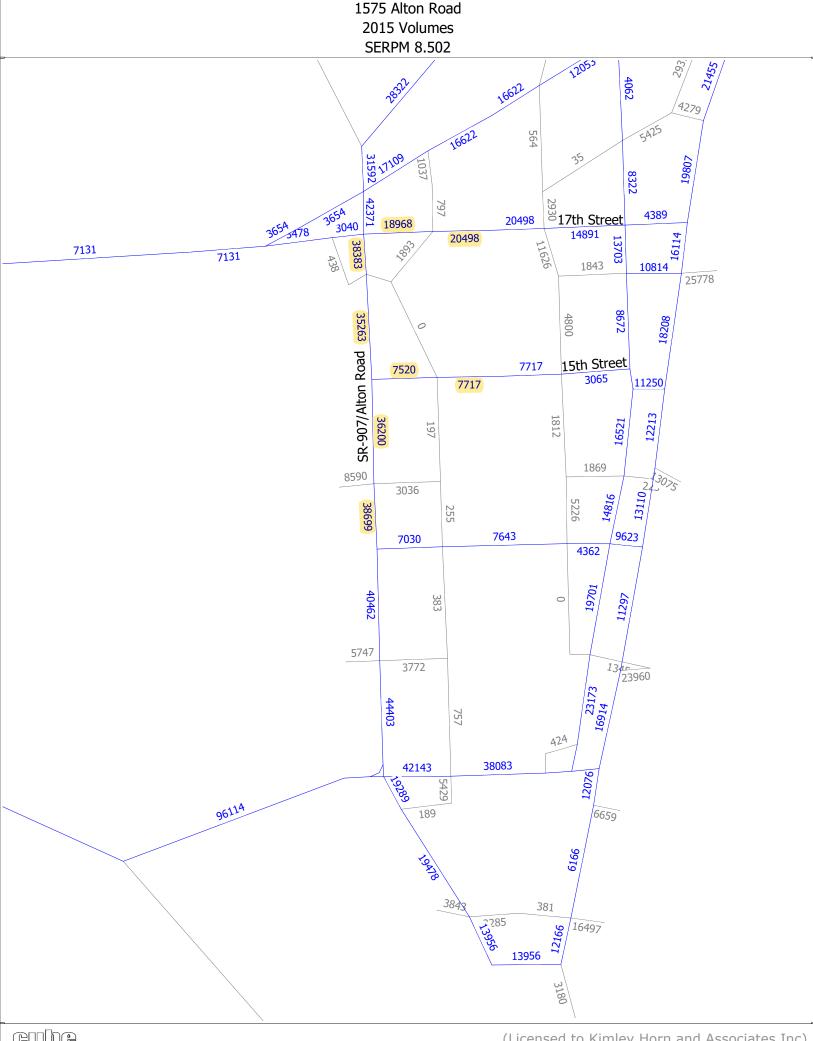
County: Miami (87)
Station #: 8567
Highway: 16th Street



Trend R-squared: 76.98%
Trend Annual Historic Growth Rate: -9.02%
Printed: 28-May-20
Straight Line Growth Option

*Axle-Adjusted

SERPM Growth Rate Summary						
Street Name	2015	2045	Difference	Growth Rate	Annual Growth Rate	
SR-907/Alton Road	38,383	43,976	5,593	14.57%	0.49%	
	35,263	39,515	4,252	12.06%	0.40%	
	36,200	42,232	6,032	16.66%	0.56%	
	38,699	42,948	4,249	10.98%	0.37%	
17th Street	18,968	24,328	5,360	28.26%	0.94%	
	20,498	25,763	5,265	25.69%	0.86%	
15th Street	7,520	10,490	2,970	39.49%	1.32%	
	7,717	10,928	3,211	41.61%	1.39%	
Total	203,248	240,180	36,932	18.17%	0.61%	





Attachment H-1 Volume Development Worksheets and Figures



TRAFFIC VOLUMES AT STUDY INTERSECTIONS

INTERSECTION: COUNT DATE: PM PEAK HOUR FACTOR: WEEKEND PEAK HOUR FACTOR:

SR 907/Alton Road and 16th Street January 23, 2020 0.92 0.95

IIDM EVICTIN	IO TRAFFICII	EDII	EDI	FDT	EDD	WDII	MOI	WDT	WDD	MDII	NDI	NDT	NDD	CDII	CDI	CDT	CDD
	NG TRAFFIC" ing Movements	EBU	EBL 45	EBT 56	EBR 27	WBU	WBL 110	WBT 63	WBR 124	NBU	NBL 54	767	NBR 126	SBU	SBL 105	SBT 759	SBR 40
	orrection Factor	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030
PM EXISTING	CONDITIONS		46	58	28		113	65	128		56	790	130		108	782	41
"WEEKEND EXI	STING TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
	rning Movements		38	65	21	1110	107	47	158	1100	25	816	114	050	138	850	38
Peak Season Co	orrection Factor	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030
WEEKEND EXIST	ING CONDITIONS		39	67	22		110	48	163		26	840	117		142	876	39
"PM BACKGRO	OUND TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
TOTAL "VEST	TED" TRAFFIC		0	0	0		0	0	0		0	0	0		0	0	0
	Buildout	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	owth Rate TRAFFIC GROWTH	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%	0.61%
						1				l				l			
PM NON-PRO	JECT TRAFFIC		47	59	28		114	66	130		57	800	132		109	792	42
"WEEKEND BACK	GROUND TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
TOTAL "VEST	TED" TRAFFIC		0	0	0		0	0	0		0	0	0		0	0	0
	Buildout	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Yearly Gr	owth Rate	2 0.61%	0.61%	0.61%	0.61%	2 0.61%	0.61%	0.61%	0.61%	2 0.61%	0.61%	0.61%	0.61%	2 0.61%	0.61%	0.61%	0.61%
Yearly Gr WEEKEND BACKGROU	owth Rate JND TRAFFIC GROWTH		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%
Yearly Gr WEEKEND BACKGROU	owth Rate		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT	owth Rate UND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION"	0.61%	0.61%	0.61% 1 68	0.61%	0.61%	0.61% 1 111	0.61% 1 49	0.61% 2 165	0.61%	0.61% 0 26	0.61% 10 850	0.61% 1 118	0.61%	0.61% 2 144	0.61% 11 887	0.61%
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE	owth Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%		0.61%	0.61% 11 887 SBT	0.61%
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting	0.61%	0.61%	0.61% 1 68	0.61%	0.61%	0.61% 1 111	0.61% 1 49	0.61% 2 165	0.61%	0.61% 0 26 NBL	0.61% 10 850 NBT	0.61% 1 118 NBR	0.61%	0.61% 2 144 SBL	0.61% 11 887	0.61%
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet	owth Rate JND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering	0.61%	0.61%	0.61% 1 68 EBT	0.61%	0.61%	0.61% 1 111	0.61% 1 49	0.61% 2 165	0.61%	0.61% 0 26	0.61% 10 850 NBT	0.61% 1 118 NBR	0.61%	0.61% 2 144 SBL	0.61% 11 887 SBT	0.61% 0
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Extering Exiting Entering	0.61%	0.61%	0.61% 1 68	0.61%	0.61%	0.61% 1 111	0.61% 1 49	0.61% 2 165	0.61%	0.61% 0 26 NBL	0.61% 10 850 NBT	0.61% 1 118 NBR	0.61%	0.61% 2 144 SBL	0.61% 11 887 SBT	0.61%
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution	owth Rate JND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting	0.61%	0.61%	0.61% 1 68 EBT	0.61%	0.61%	0.61% 1 111	0.61% 1 49	0.61% 2 165	0.61%	0.61% 0 26 NBL	0.61% 10 850 NBT	0.61% 1 118 NBR 50.0%	0.61%	0.61% 2 144 SBL 50.0%	0.61% 11 887 SBT	0.61%
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Exiting Exiting Exiting Exiting Exiting Exiting Exiting Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0%	0.61% 0 22 EBR	0.61%	0.61% 1 111 WBL	0.61% 1 49 WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0%	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0%	SBU	0.61% 2 144 SBL 50.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE	owth Rate JND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Exiting Exiting Exiting	0.61%	0.61%	0.61% 1 68 EBT	0.61%	0.61%	0.61% 1 111	0.61% 1 49	0.61% 2 165	0.61%	0.61% 0 26 NBL	0.61% 10 850 NBT	0.61% 1 118 NBR 50.0%	0.61%	0.61% 2 144 SBL 50.0%	0.61% 11 887 SBT	0.61%
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Exiting Exiting Exiting Exiting Exiting Exiting Exiting Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0%	0.61% 0 22 EBR	0.61%	0.61% 1 111 WBL	0.61% 1 49 WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0%	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0%	SBU	0.61% 2 144 SBL 50.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Entering Exiting Entering Exiting CT DISTRIBUTION" TYPE Entering Exiting Entering Exiting Entering	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0%	0.61% 0 22 EBR	0.61%	0.61% 1 111 WBL	0.61% 1 49 WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0%	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0%	SBU	0.61% 2 144 SBL 50.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Exiting Entering Exiting Extering Exiting Exiting Exiting Exiting Exiting Exiting Exiting Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0%	0.61% 0 22 EBR	0.61%	0.61% 1 111 WBL	0.61% 1 49 WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0%	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0%	SBU	0.61% 2 144 SBL 50.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Exiting Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0%	0.61% 0 22 EBR	0.61%	0.61% 1 111 WBL	0.61% 1 49 WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0%	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0%	SBU	0.61% 2 144 SBL 50.0% 54.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Valet Distribution	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Exiting Entering Exiting Extering Exiting Exiting Exiting Exiting Exiting Exiting Exiting Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0%	0.61% 0 22 EBR	0.61%	0.61% 1 111 WBL	0.61% 1 49 WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0%	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0%	SBU	0.61% 2 144 SBL 50.0% 54.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Net New Distribution PM PROJECT LAND USE	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Entering Exiting Extering Exiting Extering Exiting Extering Exiting Extering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0%	0.61% 0 22 EBR	0.61%	0.61% 1 111 WBL	0.61% 1 49 WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0%	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0%	SBU	0.61% 2 144 SBL 50.0% 54.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Valet Distribution Valet Distribution Net New Distribution PM PROJECT LAND USE PM TRAFFIC	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Exiting Entering Exiting Extiting Exiting Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0% EBT	0.61% 0 22 EBR	WBU	0.61% 1 111 WBL	0.61% 1 49 WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% NBL 100.0%	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0% 41.0%	SBU	0.61% 2 144 SBL 50.0% 54.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Yellet Distribution Net New Distribution PM PROJE LAND USE PM TRAFFIC Project	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Extering Exiting Entering Exiting Extering Exiting Extering Exiting Extering Exiting Exiti	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0% EBT	0.61% 0 22 EBR	WBU	0.61% 1 111 WBL	0.61% 1 49 WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0% NBL	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0% 41.0% NBR	SBU	0.61% 2 144 SBL 50.0% SBL 54.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Net New Distribution PM PROJECT LAND USE PM TRAFFIC Project Trips	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Exiti	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0% EBT 100.0% 5.0%	0.61% 0 22 EBR	WBU	0.61% 1 1111 WBL	0.61% 1 49 WBT WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0% NBL	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0% NBR 41.0% NBR	SBU	0.61% 2 144 SBL 50.0% SBL 54.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEFKEND PROJE LAND USE Pass-By Distribution Valet Distribution Yalet Distribution PM PROJE LAND USE PM TRAFFIC Project Trips PM TOTAL PRO	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Exiting Entering Exiting Exi	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0% EBT 100.0% 5.0%	0.61% 0 22 EBR	WBU	0.61% 1 1111 WBL	0.61% 1 49 WBT WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0% NBL 100.0% NBL 32 1 33	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0% 41.0% NBR 10 114 24	SBU	0.61% 2 144 SBL 50.0% SBL 54.0% SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEFKEND PROJE LAND USE Pass-By Distribution Valet Distribution Yalet Distribution PM PROJE LAND USE PM TRAFFIC Project Trips PM TOTAL PRO	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Exiti	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0% EBT 100.0% 5.0%	0.61% 0 22 EBR	WBU	0.61% 1 1111 WBL	0.61% 1 49 WBT WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0% NBL	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0% NBR 41.0% NBR	SBU	0.61% 2 144 SBL 50.0% SBL 54.0%	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Fullet Postribution Net New Distribution PM PROJE LAND USE PM TRAFFIC Project Trips PM TOTAL PRO PM TOTAL "WEEKEND PROJE PM TOTAL "WEEKEND PROJE PM TOTAL	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Exiting Entering Exiting Exit	EBU	EBL EBL 0 0 47	0.61% 1 68 EBT 100.0% 5.0% EBT 1100.0% 5.0%	0.61% 0 22 EBR EBR	WBU WBU	0.61% 1 1111 WBL WBL	WBT WBT 0 666	0.61% 2 165 WBR WBR	NBU NBU	0.61% 0 26 NBL 100.0% 5.0% NBL 100.0% NBL 100.0%	0.61% 10 850 NBT -50.0% NBT -10 -10	0.61% 1 118 NBR 50.0% 41.0% NBR 10 14.0%	SBU SBU	0.61% 2 144 SBL 50.0% SBL 54.0% SBL	0.61% 11 887 SBT -50.0% SBT -10	0.61% 0 39 SBR SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "PM PROJEC LAND USE PM TOTAL PRO PM TOTAL "WEEKEND PROLECTION PM TOTAL "WEEKEND PROLECTION PM TOTAL "WEEKEND PROLECTION owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Exiting Entering Exiting Exiting CT DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Exiting Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% 5.0% EBT 100.0% 5.0%	0.61% 0 22 EBR	WBU	0.61% 1 1111 WBL	0.61% 1 49 WBT WBT	0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0% NBL 100.0% NBL 32 1 33	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0% 41.0% NBR 10 114 24	SBU	0.61% 2 144 SBL 50.0% SBL 54.0% SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR	
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Net New Distribution "PM PROJEC LAND USE PM TRAFFIC Project Trips PM TOTAL PRO PM TOTAL "WEEKEND PRO LAND USE PM TOTAL "WEEKEND PRO LAND USE PM TOTAL "WEEKEND PRO LAND USE	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Exiting Entering Exiting Exit	EBU	EBL EBL 0 0 47	0.61% 1 68 EBT 100.0% 5.0% EBT 1100.0% 5.0%	0.61% 0 22 EBR EBR	WBU WBU	0.61% 1 1111 WBL WBL	WBT WBT 0 666	0.61% 2 165 WBR WBR	NBU NBU	0.61% 0 26 NBL 100.0% 5.0% NBL 100.0% NBL 100.0%	0.61% 10 850 NBT -50.0% NBT -10 -10	0.61% 1 118 NBR 50.0% 41.0% NBR 10 14.0%	SBU SBU	0.61% 2 144 SBL 50.0% SBL 54.0% SBL	0.61% 11 887 SBT -50.0% SBT -10	0.61% 0 39 SBR SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Net New Distribution PM PROJE LAND USE PM TRAFFIC Project Trips PM TOTAL "WEEKEND PRO LAND USE PM TOTAL PM TOTAL "WEEKEND PRO LAND USE PM TOTAL "WEEKEND PRO LAND USE PM TOTAL "WEEKEND PRO LAND USE VEEKEND PRO LAND USE VEEKEND TRAFFIC	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Entering Exiting Entering Exiting CT DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting CT TRAFFIC" TYPE DIVERSIONS Pass - By Valet LTRAFFIC DJECT TRAFFIC TYPE FIC DIVERSIONS Pass - By Valet DJECT TRAFFIC" TYPE FIC DIVERSIONS Pass - By Valet Valet	EBU	EBL EBL 0 0 47	0.61% 1 68 EBT 100.0% 5.0% EBT 100.0% 5.0% 5.0% EBT 20 79	0.61% 0 22 EBR EBR	WBU WBU	0.61% 1 1111 WBL WBL	WBT WBT 0 666	0.61% 2 165 WBR WBR	NBU NBU	0.61% 0 26 NBL 100.0% NBL 100.0% NBL 32 1 33 90 NBL	0.61% 10 850 NBT -50.0% NBT -10 -10	0.61% 1 118 NBR 50.0% 41.0% NBR 10 14 24 156 NBR	SBU SBU	0.61% 2 144 SBL 50.0% SBL 10 19 29 138 SBL	0.61% 11 887 SBT -50.0% SBT -10	0.61% 0 39 SBR SBR
Yearly Gr WEEKEND BACKGROU WEEKEND NON-P "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE PASS-BY Distribution Valet Distribution Full Project Trips PM TOTAL PRO WEEKEND PROJE LAND USE PM TOTAL PRO PM TOTAL "WEEKEND PROJE LAND USE WEEKEND TRAF	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting CT DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Exiting Entering Exiting Exit	EBU	EBL	0.61% 1 68 EBT 100.0% 5.0% 100.0% 5.0% EBT 20 79 EBT 27 3	0.61% 0 22 EBR EBR 28 EBR	WBU WBU	0.61% 1 1111 WBL WBL 0 1144 WBL	WBT WBT 0 666	0.61% 2 165 WBR WBR 130 UBR	NBU NBU	0.61% 0 100.0% NBL 100.0% S.0% NBL 32 1 33 90 NBL	0.61% 10 850 NBT -10 -10 790	0.61% 1 118 NBR 50.0% 41.0% NBR 10 14.0% NBR 10 14.0% NBR 24 24 26	SBU SBU	0.61% 2 144 145 50.0% 54.0% 54.0% 54.0% 10 19 29 138 SBL	0.61% 11 887 SBT -50.0% SBT -10 -10 782	0.61% 0 39 SBR SBR
Yearly Gr WEEKEND BACKGROU WEEKEND BACKGROU "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Valet LAND USE Pass-By Distribution Valet Distribution PM PROJE LAND USE PM TRAFFIC Project Trips PM TOTAL "WEEKEND PRO LAND USE PM TOTAL PROJECT Trips PM TOTAL "WEEKEND PRO LAND USE PM TOTAL "WEEKEND PRO LAND USE VEEKEND PRO LAND USE VEEKEND TRAFFIC Project Trips WEEKEND TRAFFIC Project Trips	owth Rate IND TRAFFIC GROWTH ROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Entering Exiting Entering Exiting CT DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting CT TRAFFIC" TYPE DIVERSIONS Pass - By Valet LTRAFFIC DJECT TRAFFIC TYPE FIC DIVERSIONS Pass - By Valet DJECT TRAFFIC" TYPE FIC DIVERSIONS Pass - By Valet Valet	EBU	EBL EBL 0 0 47	0.61% 1 68 EBT 100.0% 5.0% EBT 100.0% 5.0% 5.0% EBT 20 79	0.61% 0 22 EBR EBR	WBU WBU	0.61% 1 1111 WBL WBL	WBT WBT 0 666	0.61% 2 165 WBR WBR	NBU NBU	0.61% 0 26 NBL 100.0% NBL 100.0% NBL 32 1 33 90 NBL	0.61% 10 850 NBT -50.0% NBT -10 -10	0.61% 1 118 NBR 50.0% 41.0% NBR 10 14 24 156 NBR	SBU SBU	0.61% 2 144 SBL 50.0% SBL 10 19 29 138 SBL	0.61% 11 887 SBT -50.0% SBT -10	0.61% 0 39 SBR SBR

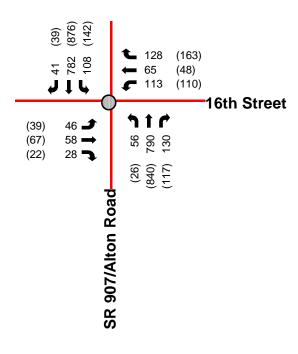


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Study Roadway
Study Intersection

XX P.M. Peak Hour Traffic

(XX) Weekend Peak Hour Traffic



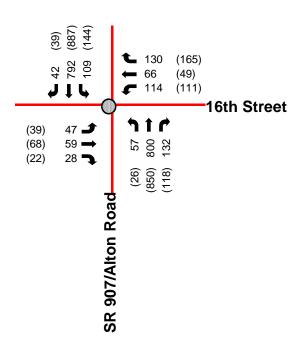




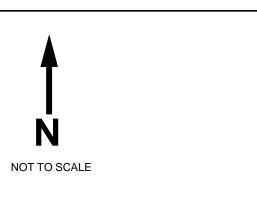
Study Roadway
Study Intersection

XX P.M. Peak Hour Traffic

(XX) Weekend Peak Hour Traffic

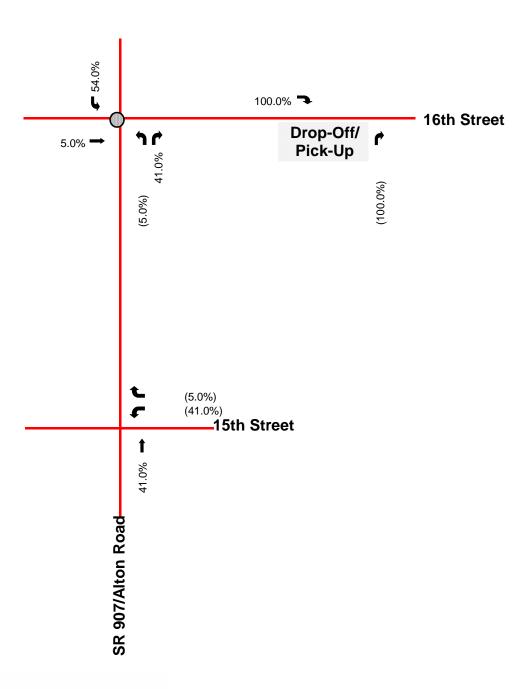






Study Roadway
Study Intersection
XX% Entering Trip Distribution

(XX%) Exiting Trip Distribution



Kimley» Horn

Peak Hour Project Trip Distribution 1575 Alton Road Miami Beach, Florida



Kimley » Horn

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Legend

Study Roadway
Study Intersection

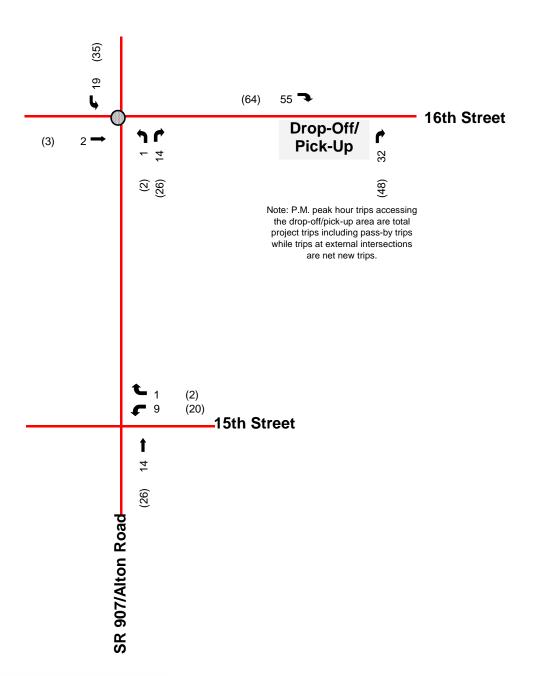
XX P.M. Peak Hour Trip Assignment

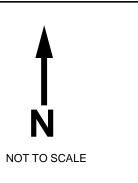
(XX) Weekend Peak Hour Trip Assignment

Peak Hour Project Trip Assignment

1575 Alton Road

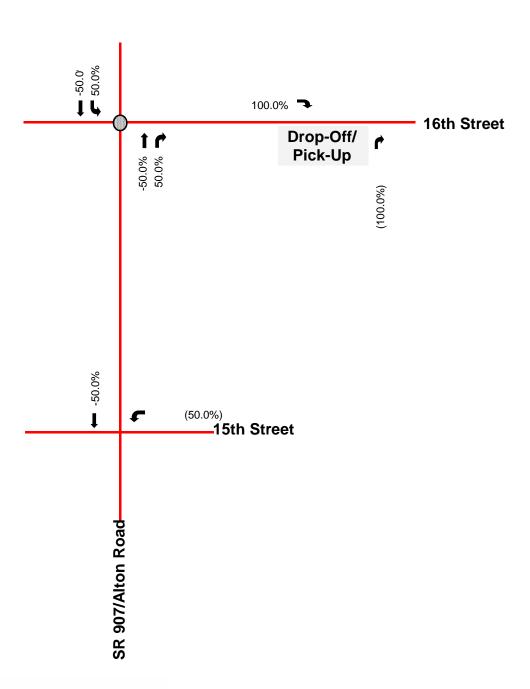
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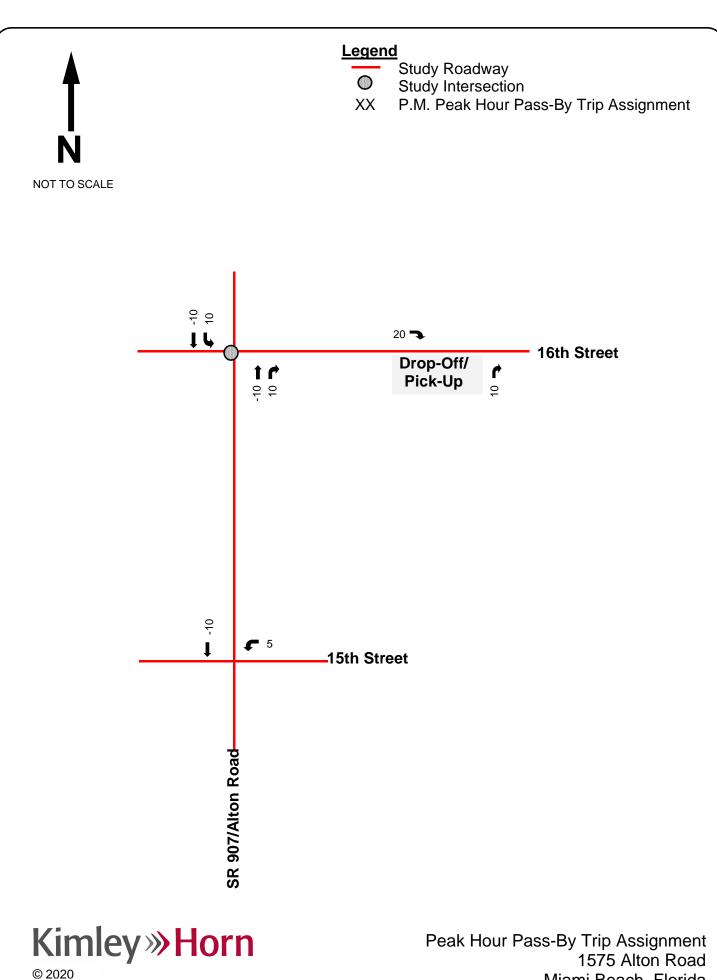
Study Roadway
Study Intersection

XX% Entering Pass-By Trip Distribution (XX%) Exiting Pass-By Trip Distribution

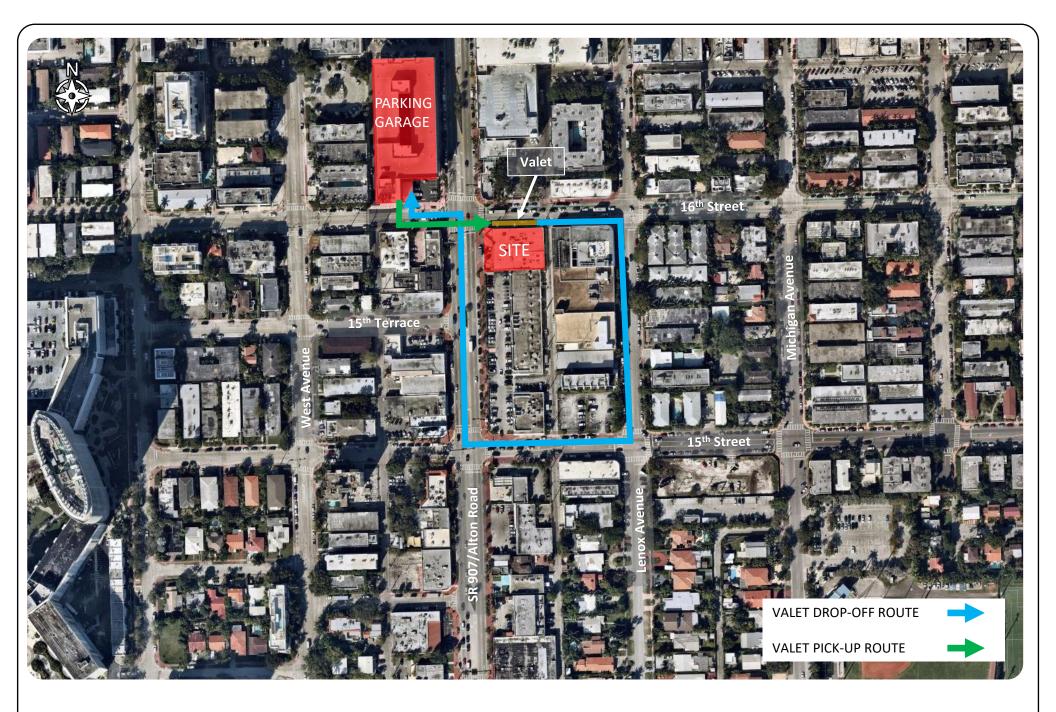


Kimley» Horn

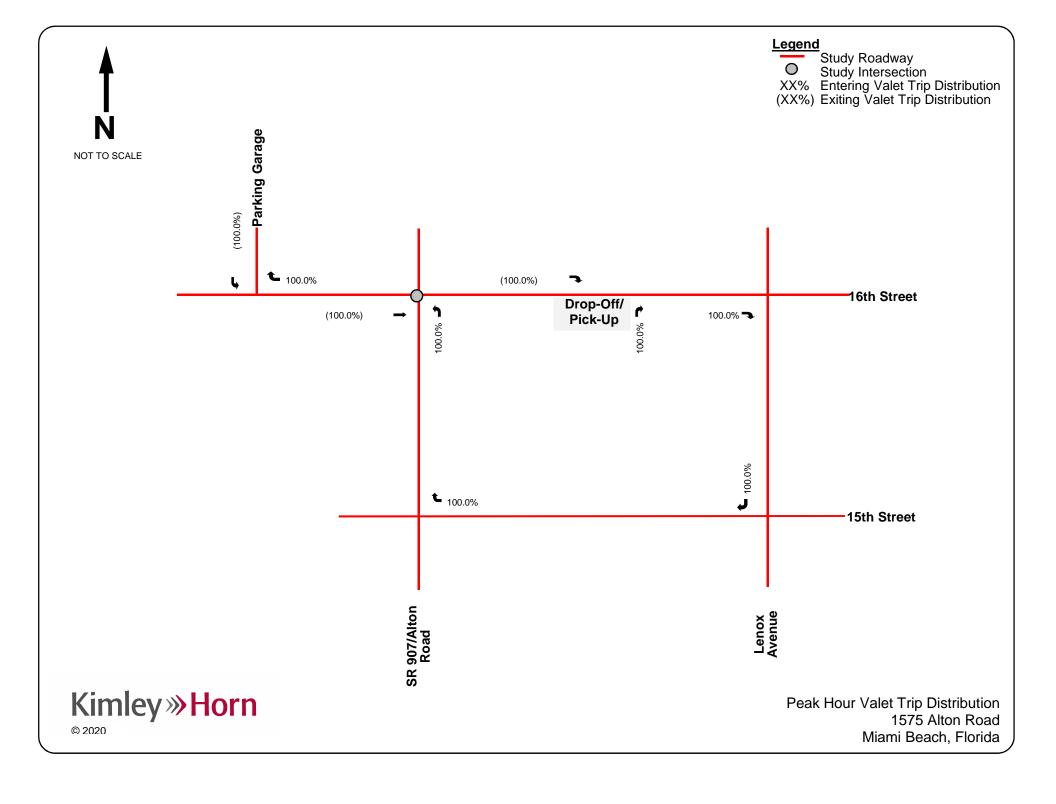
Peak Hour Pass-By Trip Distribution 1575 Alton Road Miami Beach, Florida

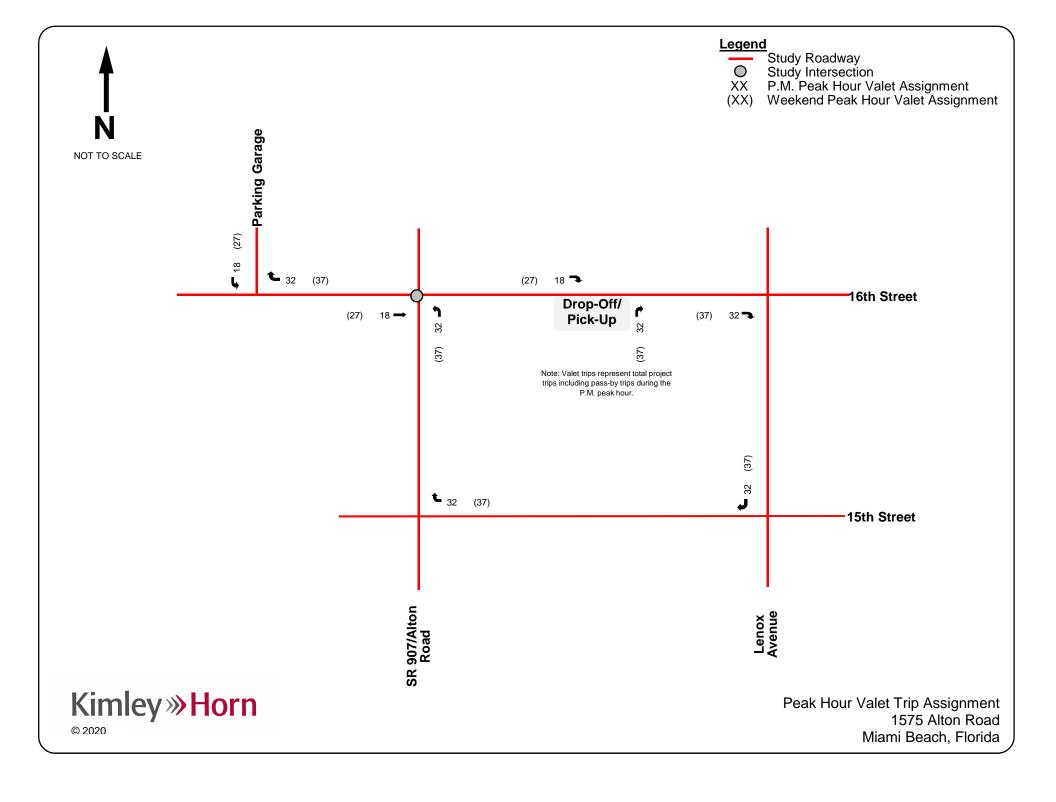


Miami Beach, Florida









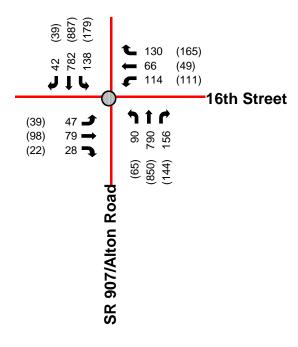


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Study Roadway
Study Intersection

XX P.M. Peak Hour Traffic

(XX) Weekend Peak Hour Traffic





Alton Road Valet Drop-off/Pick-up Area

TRAFFIC VOLUMES AT STUDY INTERSECTIONS

SR 907/Alton Road and 16th Street January 23, 2020 0.92 0.96

INTERSECTION: COUNT DATE: PM PEAK HOUR FACTOR: WEEKEND PEAK HOUR FACTOR:

	NG TRAFFIC" ing Movements	EBU	EBL 45	EBT 56	EBR 27	WBU	WBL 110	WBT 63	WBR 124	NBU	NBL 54	767	NBR 126	SBU	SBL 105	SBT 759	SBR 40
	orrection Factor	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030
PM EXISTING	CONDITIONS		46	58	28		113	65	128		56	790	130		108	782	41
"WEEVEND EVI	STING TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
	urning Movements	EBU	38	65	21	WEU	107	47	158	NDU	25	816	114	360	138	850	38
	orrection Factor	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030	1.030
WEEKEND EXIST	TING CONDITIONS		39	67	22		110	48	163		26	840	117		142	876	39
"PM BACKGRO	OUND TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
TOTAL "VES	TED" TRAFFIC		0	0	0		0	0	0		0	0	0		0	0	0
													U				U
	Buildout rowth Rate	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%	2 0.61%
	TRAFFIC GROWTH	0.01%	0.61%	0.61%	0.61%	0.01%	0.61%	0.01%	0.61%	0.01%	0.01%	10	0.61%	0.01%	0.61%	10	0.61%
	JECT TRAFFIC		47	59	28		114	66	130		57	800	132		109	792	42
"WEEKEND BACK	GROUND TRAFFIC"	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
TOTAL "VES	TED" TRAFFIC		0	0	0		0	0	0		0	0	0		0	0	0
		•	•					ļ ,	-								,
	Buildout	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Yearly Gr	owth Rate	2 0.61%	0.61%	0.61%	2 0.61%	2 0.61%	2 0.61%		2 0.61%	2 0.61%	0.61%	0.61%	0.61%	2 0.61%	0.61%	0.61%	0.61%
Yearly Gr WEEKEND BACKGROU	owth Rate UND TRAFFIC GROWTH		0.61%	0.61%	2 0.61% 0		2 0.61% 1	2 0.61% 1	2 0.61% 2		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%
Yearly Gr WEEKEND BACKGROU WEEKEND NON-F	owth Rate UND TRAFFIC GROWTH PROJECT TRAFFIC		0.61%	0.61%	2 0.61%		2 0.61%	2 0.61%	2 0.61%		0.61%	0.61%	0.61%		0.61%	0.61%	0.61%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT	owth Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION"	0.61%	0.61%	0.61% 1 68	2 0.61% 0	0.61%	2 0.61% 1	2 0.61% 1	2 0.61% 2	0.61%	0.61% 0 26	0.61% 10 850	0.61% 1 118	0.61%	0.61% 2 144	0.61% 11 887	0.61% 0 39
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By	OWITH PROPERTY OF THE PROPERTY		0.61%	0.61%	2 0.61% 0		2 0.61% 1	2 0.61% 1	2 0.61% 2		0.61%	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR		0.61%	0.61%	0.61%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution	owth Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting	0.61%	0.61%	0.61% 1 68	2 0.61% 0	0.61%	2 0.61% 1	2 0.61% 1	2 0.61% 2	0.61%	0.61% 0 26 NBL	0.61% 10 850 NBT	0.61% 1 118 NBR	0.61%	0.61% 2 144	0.61% 11 887 SBT	0.61% 0 39
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By	OWITH PROPERTY OF THE PROPERTY	0.61%	0.61%	0.61% 1 68	2 0.61% 0	0.61%	2 0.61% 1	2 0.61% 1	2 0.61% 2	0.61%	0.61% 0 26	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR	0.61%	0.61% 2 144	0.61% 11 887 SBT	0.61% 0 39
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New	owth Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Exiting Entering	0.61%	0.61%	0.61% 1 68 EBT	2 0.61% 0	0.61%	2 0.61% 1	2 0.61% 1	2 0.61% 2	0.61%	0.61% 0 26 NBL	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0% 100.0%	0.61%	0.61% 2 144	0.61% 11 887 SBT	0.61% 0 39
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Valet Distribution	POWTH RATE UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Exiting	0.61%	0.61%	0.61% 1 68 EBT	2 0.61% 0	0.61%	2 0.61% 1	2 0.61% 1	2 0.61% 2	0.61%	0.61% 0 26 NBL	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR	0.61%	0.61% 2 144	0.61% 11 887 SBT	0.61% 0 39 SBR 50.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Exiting Exiting Entering Exiting Exiting Entering Exiting Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT	2 0.61% 0 22 EBR	0.61% WBU	2 0.61% 1 111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0%	0.61% 10 850 NBT -50.0% 50.0%	0.61% 1 118 NBR 50.0% 100.0%	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE	PROVIDENCE OF THE PROVIDENCE O	0.61%	0.61%	0.61% 1 68 EBT	2 0.61% 0	0.61%	2 0.61% 1	2 0.61% 1	2 0.61% 2 165 WBR	0.61%	0.61% 0 26 NBL	0.61% 10 850 NBT -50.0%	0.61% 1 118 NBR 50.0% 100.0%	0.61%	0.61% 2 144	0.61% 11 887 SBT	0.61% 0 39 SBR 50.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution	Provide the control of the control o	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT	2 0.61% 0 22 EBR	0.61% WBU	2 0.61% 1 111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0%	0.61% 10 850 NBT -50.0% 50.0%	0.61% 1 118 NBR 50.0% 100.0%	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet	PROVIDENCE OF THE PROVIDENCE O	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT	2 0.61% 0 22 EBR	0.61% WBU	2 0.61% 1 111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0%	0.61% 10 850 NBT -50.0% 50.0%	0.61% 1 118 NBR 50.0% 100.0%	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Valet Distribution Net New Net New Net New	rowth Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Entering Exiting Entering Exiting Entering Exiting Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT	2 0.61% 0 22 EBR	0.61% WBU	2 0.61% 1 111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0%	0.61% 10 850 NBT -50.0% 50.0%	0.61% 1 118 NBR 50.0% 100.0%	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Exiting Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT	2 0.61% 0 22 EBR	0.61% WBU	2 0.61% 1 111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0%	0.61% 10 850 NBT -50.0% 50.0%	0.61% 1 118 NBR 50.0% 100.0%	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Valet Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Net New Distribution	rowth Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Entering Entering Exiting Entering Exiting Entering Exiting Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT	2 0.61% 0 22 EBR	0.61% WBU	2 0.61% 1 111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0%	0.61% 10 850 NBT -50.0% 50.0%	0.61% 1 118 NBR 50.0% 100.0%	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Valet Distribution "PM PROJE LAND USE Pass-By Distribution Net New Distribution "PM PROJE LAND USE	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT	2 0.61% 0 22 EBR	WBU	2 0.61% 1 1111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% NBL 100.0%	0.61% 10 850 NBT -50.0% 50.0%	0.61% 1 118 NBR 50.0% 100.0%	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Yelet LAND USE Pass-By Distribution Yelet Distribution Yelet Distribution Net New Distribution PM PROJE LAND USE PM TRAFFIC	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0%	2 0.61% 0 22 EBR	WBU	2 0.61% 1 1111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% NBL 100.0%	0.61% 10 850 NBT -50.0% 50.0% NBT	0.61% 1 118 NBR 50.0% 100.0% 41.0%	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0% 54.0%
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Valet LAND USE Pass-By Distribution Valet Distribution Valet Distribution PASS-By Distribution Valet Distribution PASS-By Distribution PASS-By Distribution PASS-By Distribution PASS-By Distribution PASS-By Distribution Valet Distribution PASS-By Distributio	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Exiting Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0%	2 0.61% 0 22 EBR	WBU	2 0.61% 1 1111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% 5.0% NBL	0.61% 10 850 NBT -50.0% 50.0% NBT	0.61% 1 118 NBR 50.0% 100.0% 41.0% NBR 100.0% 100.0% 32	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0% 54.0% SBR
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Net New Distribution Net New Distribution PM PROJE LAND USE PM TRAFFIC Project Trips	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting E	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% EBT	2 0.61% 0 22 EBR	WBU	2 0.61% 1 1111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% NBL 100.0%	0.61% 10 850 NBT -50.0% 54.0% NBT -54.0%	0.61% 1 118 NBR 50.0% 100.0% NBR 100.0% NBR 100.0% NBR 332 9	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0% 54.0% SBR
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Froject Trips PM TOTAL PRO	OWITH RATE UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Exiting Entering Exiting Entering Exiting Extering Exiting Entering Exiting Entering Exiting Entering Exiting Entering Exiting Exiting Entering Exiting E	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% EBT 1100.0%	2 0.61% 0 22 EBR	WBU	2 0.61% 1 1111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% NBL 100.0% NBL 100.0% 100.0%	0.61% 10 850 NBT -50.0% 54.0% NBT -54.0%	0.61% 1 118 NBR 50.0% 100.0% 41.0% NBR 100.0% 100.0% 41.0% 100.0%	SBU	0.61% 2 144 SBL SBL	0.61% 11 887 SBT -50.0% SBT -10	0.61% 0 39 SBR 50.0% 54.0% SBR
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Froject Trips PM TOTAL PRO	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting E	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% EBT	2 0.61% 0 22 EBR	WBU	2 0.61% 1 1111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% NBL 100.0%	0.61% 10 850 NBT -50.0% 54.0% NBT -54.0%	0.61% 1 118 NBR 50.0% 100.0% NBR 100.0% NBR 100.0% NBR 332 9	SBU	0.61% 2 144 SBL	0.61% 11 887 SBT -50.0%	0.61% 0 39 SBR 50.0% 54.0% SBR
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Froject Trips PM TOTAL PRO PM TOTAL "WEEKEND PROJE PM TOTAL "WEEKEND PROJE PM TOTAL "WEEKEND PROJE PM TOTAL	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting	EBU EBU	EBL EBL 0 0 47	0.61% 1 68 EBT 100.0% EBT 1100.0%	2 0.61% 0 22 EBR	WBU WBU	2 0.61% 1 1111 WBL WBL	2 0.61% 1 49 WBT WBT	2 0.61% 2 165 WBR	NBU NBU	0.61% 0 26 NBL 100.0% 5.0% NBL 100.0% NBL 100.0% 100.0%	0.61% 10 850 NBT -50.0% 54.0% NBT -51.0%	0.61% 1 118 NBR 50.0% 100.0% 41.0% NBR 100.0% 41.0% 100.0% 1100.0% 1100.0% 1100.0% 1100.0%	SBU SBU	0.61% 2 144 SBL SBL	0.61% 11 887 SBT -50.0% SBT -10 -10	0.61% 0 39 SBR 50.0% 54.0% SBR
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Net New Distribution "PM PROJE LAND USE PM TARFFIC Project Trips PM TOTAL PRO "WEEKEND PROJE LAND USE	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting	EBU	0.61% 0 39 EBL	0.61% 1 68 EBT 100.0% EBT 1100.0%	2 0.61% 0 22 EBR	WBU	2 0.61% 1 1111 WBL	2 0.61% 1 49 WBT	2 0.61% 2 165 WBR	NBU	0.61% 0 26 NBL 100.0% NBL 100.0% NBL 100.0% 100.0%	0.61% 10 850 NBT -50.0% 54.0% NBT -54.0%	0.61% 1 118 NBR 50.0% 100.0% 41.0% NBR 100.0% 100.0% 41.0% 100.0%	SBU	0.61% 2 144 SBL SBL	0.61% 11 887 SBT -50.0% SBT -10	0.61% 0 39 SBR 50.0% 54.0% SBR
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Net New Distribution Net New Distribution PM PROJE LAND USE PM TAFFIC Project Trips PM TOTAL PRO PM TOTAL "WEEKEND PROJE LAND USE PM TOTAL PM TOTAL "WEEKEND PROJE LAND USE PM TOTAL "WEEKEND PROJE LAND USE PM TOTAL "WEEKEND PROJE LAND USE	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting	EBU EBU	EBL EBL 0 0 47	0.61% 1 68 EBT 100.0% EBT 1100.0%	2 0.61% 0 22 EBR	WBU WBU	2 0.61% 1 1111 WBL WBL	2 0.61% 1 49 WBT WBT	2 0.61% 2 165 WBR	NBU NBU	0.61% 0 26 NBL 100.0% 5.0% NBL 100.0% NBL 100.0% 100.0%	0.61% 10 850 NBT -50.0% 54.0% NBT -51.0%	0.61% 1 118 NBR 50.0% 100.0% 41.0% NBR 100.0% 41.0% 100.0% 1100.0% 1100.0% 1100.0% 1100.0%	SBU SBU	0.61% 2 144 SBL SBL	0.61% 11 887 SBT -50.0% SBT -10 -10	0.61% 0 39 SBR 50.0% 54.0% SBR
Yearly Gr WEEKEND BACKGROI WEEKEND NON-F "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution Net New Distribution "PM PROJE LAND USE PM TARFFIC Project Trips PM TOTAL PRO "WEEKEND PROJE LAND USE	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Exit	EBU EBU	EBL EBL 0 0	0.61% 1 68 EBT 100.0% EBT 1100.0%	2 0.61% 0 22 EBR	WBU WBU	2 0.61% 1 1111 WBL WBL	2 0.61% 1 49 WBT WBT	2 0.61% 2 165 WBR	NBU NBU	0.61% 0 26 NBL 100.0% NBL 100.0% NBL 32 1 33 90 NBL	0.61% 10 850 NBT -50.0% 54.0% NBT -51.07 NBT -51.07 NBT -51.07 NBT	0.61% 1 118 NBR 50.0% 100.0% NBR 100.0% NBR 1100.0% NBR 1100.0% NBR 1100.0% NBR 1100.0% NBR 1100.0% NBR 1100.0%	SBU SBU	0.61% 2 144 SBL SBL	0.61% 11 887 SBT -50.0% SBT -10 -10	0.61% 0 39 SBR 50.0% 54.0% SBR 10 19 29 71
Yearly Gr WEEKEND BACKGROI WEEKEND BACKGROI "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE PASS-BY Distribution For Net New Distribution PM PROJE LAND USE PM TRAFFIC Project Trips PM TOTAL PRO "WEEKEND PROJE LAND USE PM TOTAL PROJE LAND USE WEEKEND TRAF	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Entering Exiting Exiting Entering Exiting Exiting Entering Exiting Exiting Exiting Exiting Exiting Exiting Entering Exiting Exiti	EBU EBU	EBL EBL 0 0	0.61% 1 68 EBT 100.0% EBT 1100.0% EBT 177 EBT 27	EBR EBR EBR	WBU WBU	2 0.61% 1 1111 WBL WBL	2 0.61% 49 WBT WBT WBT	2 0.61% 2 165 WBR	NBU NBU	0.61% 0 100.0% NBL 100.0% NBL 32 1 33 90 NBL	0.61% 10 850 NBT -50.0% 54.0% NBT -5 12 7 NBT	0.61% 1 118 NBR 50.0% 100.0% 41.0% NBR 100.0% 1100.0% NBR 1178 NBR NBR	SBU SBU	0.61% 2 144 SBL SBL 0 109 SBL	0.61% 11 887 SBT -50.0% SBT -10 -10 782	0.61% 0 39 SBR 50.0% 54.0% SBR 10 19 29 71
Yearly Gr WEEKEND BACKGROI WEEKEND BACKGROI "PM PROJECT LAND USE Pass-By Distribution Net New Distribution "WEEKEND PROJE LAND USE Pass-By Distribution Valet Distribution "WEEKEND PROJE LAND USE PASS-BY Distribution Net New Distribution "PM PROJE LAND USE PM TRAFFIC Project Trips PM TOTAL "WEEKEND PROJE LAND USE PM TOTAL "WEEKEND PROJE LAND USE PM TOTAL "WEEKEND TRAFFIC Project Trips WEEKEND TRAFFIC Project Trips	Provide Rate UND TRAFFIC GROWTH PROJECT TRAFFIC DISTRIBUTION" TYPE Entering Exiting Exiting Entering Exiting Exit	EBU EBU	EBL	0.61% 1 68 EBT 100.0% EBT 1100.0% EBT 18 18	2 0.61% 0 22 EBR	WBU WBU	2 0.61% 1 1111 WBL WBL	2 0.61% 1 49 WBT WBT	2 0.61% 2 165 WBR	NBU NBU	0.61% 0 26 NBL 100.0% NBL 100.0% NBL 32 1 33 90 NBL	0.61% 10 850 NBT -50.0% 54.0% NBT -51.07 NBT -51.07 NBT -51.07 NBT	0.61% 1 118 NBR 50.0% 100.0% NBR 100.0% NBR 1100.0% NBR 1100.0% NBR 1100.0% NBR 1100.0% NBR 1100.0% NBR 1100.0%	SBU SBU	0.61% 2 144 SBL SBL	0.61% 11 887 SBT -50.0% SBT -10 -10	0.61% 0 39 SBR 50.0% 54.0% SBR 10 19 29 71



Study Roadway
Study Intersection

XX% Entering Trip Distribution

(XX%) Exiting Trip Distribution





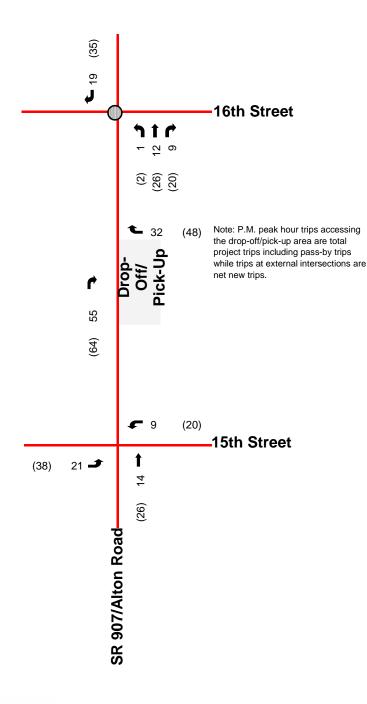
Peak Hour Project Trip Distribution - Alternative 1575 Alton Road Miami Beach, Florida



Study Roadway Study Intersection

XX

P.M. Peak Hour Trip Assignment Weekend Peak Hour Trip Assignment (XX)





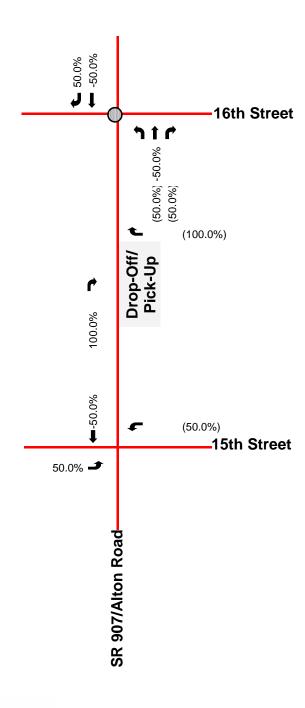
Peak Hour Project Trip Assignment - Alternative 1575 Alton Road Miami Beach, Florida



Study Roadway
Study Intersection

XX% Entering Pass-By Trip Distribution

(XX%) Exiting Pass-By Trip Distribution

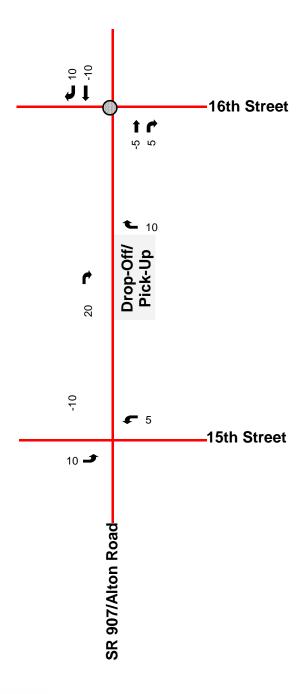




Peak Hour Pass-By Trip Distribution - Alternative 1575 Alton Road Miami Beach, Florida

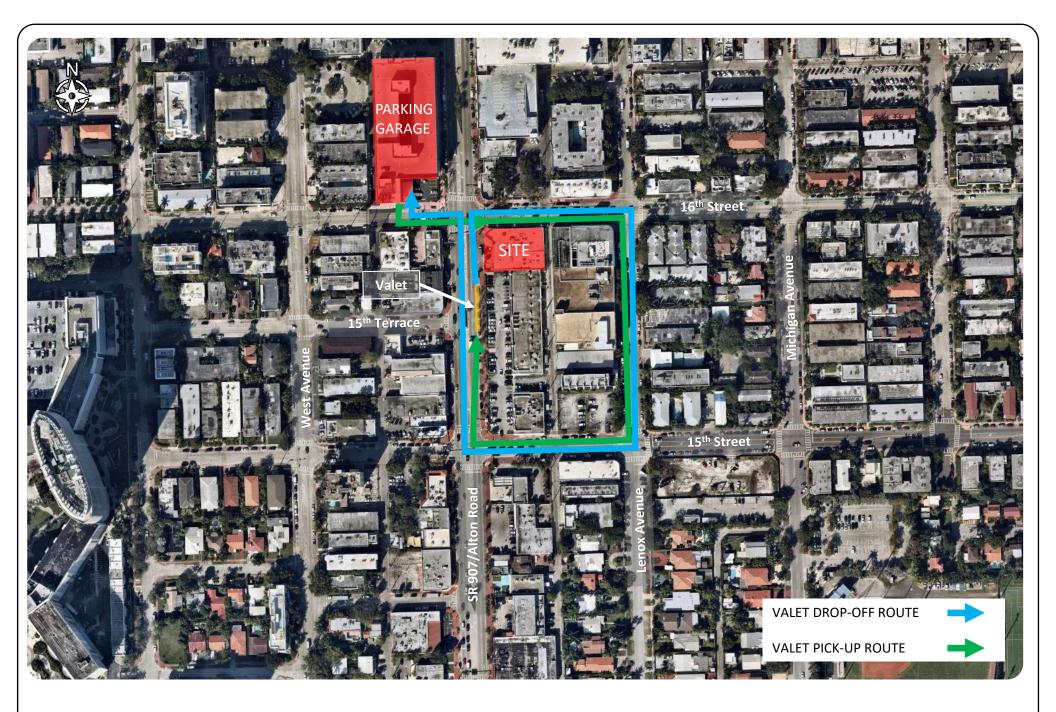


Study Roadway
Study Intersection
P.M. Peak Hour Pass-By Trip Assignment XX



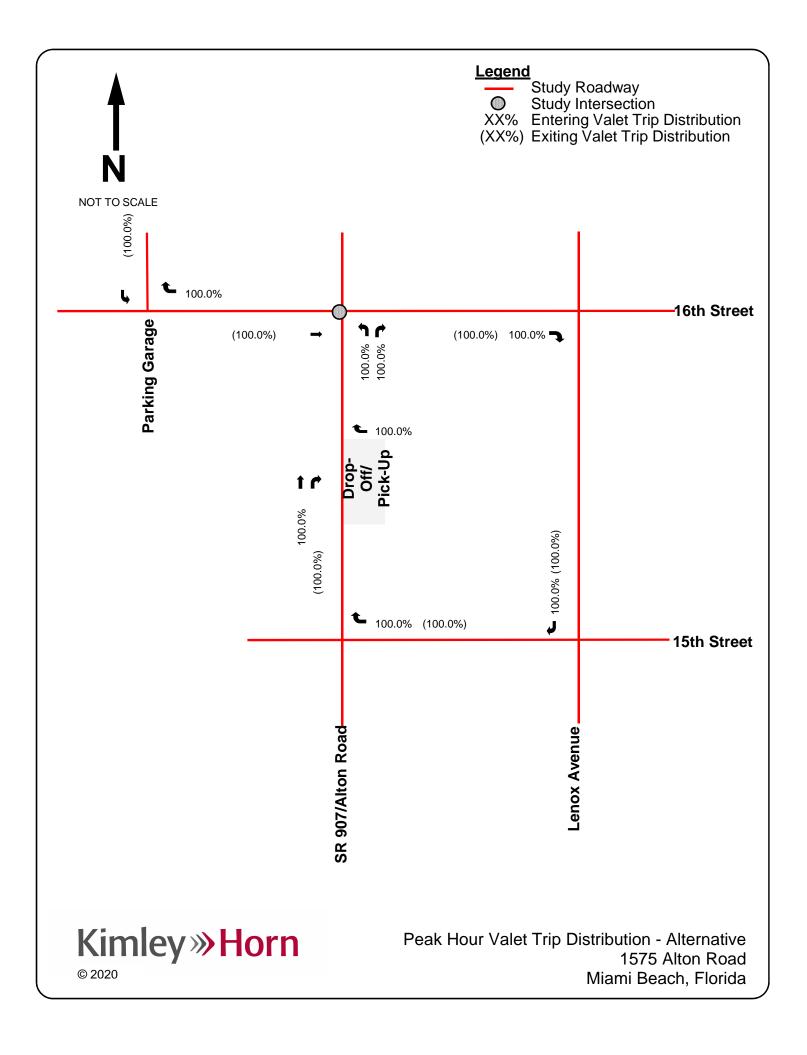


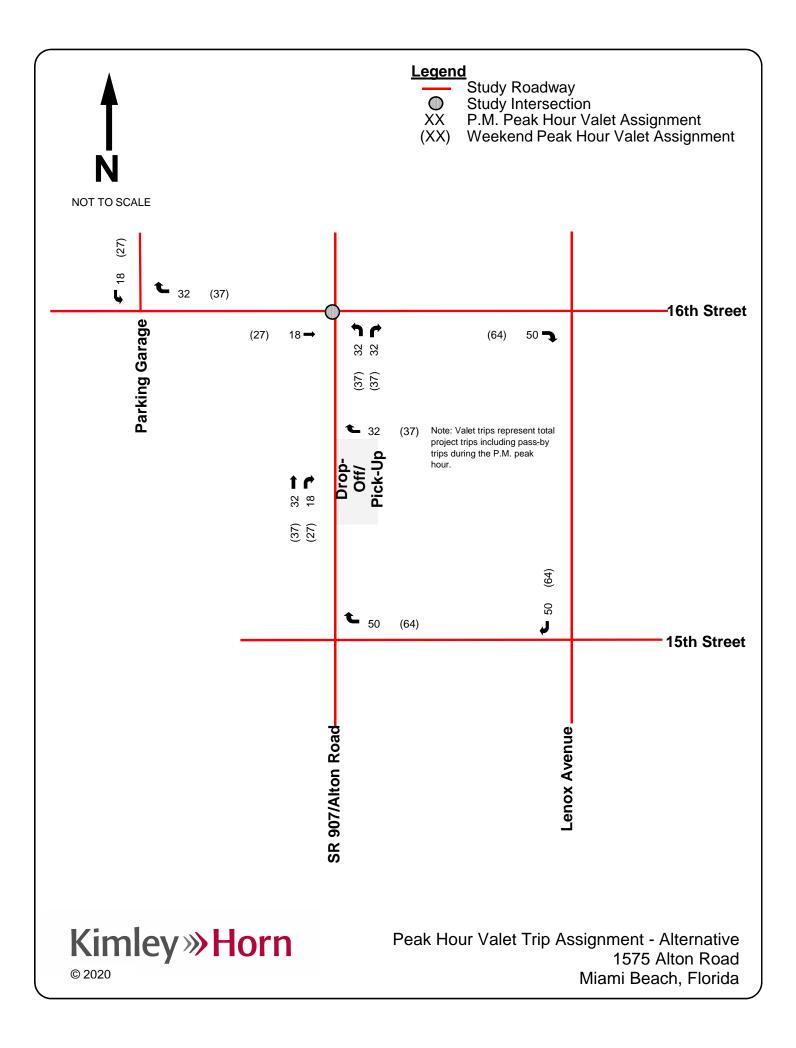
Peak Hour Pass-By Trip Assignment - Alternative 1575 Alton Road Miami Beach, Florida





Proposed Valet Routing 1575 Alton Road Miami Beach, Florida

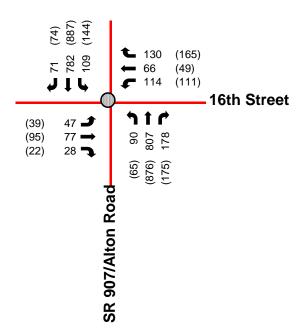






Study Roadway
Study Intersection
XX P.M. Peak Hour Traffic

(XX) Weekend Peak Hour Traffic





Attachment I-1

Synchro Worksheets



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Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations		4		4	- 1	∱ ⊅	- ነ	∱ ⊅
Traffic Volume (vph)	46	58	113	65	56	790	108	782
Future Volume (vph)	46	58	113	65	56	790	108	782
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA
Protected Phases		4		8	1	6	5	2
Permitted Phases	4		8		6		2	
Detector Phase	4	4	8	8	1	6	5	2
Switch Phase								
Minimum Initial (s)	7.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0
Minimum Split (s)	37.1	37.1	37.1	37.1	11.0	27.0	11.0	27.0
Total Split (s)	42.0	42.0	42.0	42.0	18.0	90.0	18.0	90.0
Total Split (%)	28.0%	28.0%	28.0%	28.0%	12.0%	60.0%	12.0%	60.0%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.1		6.1	6.0	6.0	6.0	6.0
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Intersection Summary								

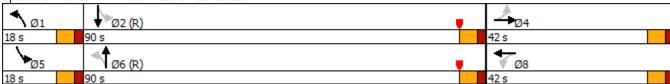
Cycle Length: 150

Actuated Cycle Length: 150

Offset: 130 (87%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 80

Control Type: Actuated-Coordinated



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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	ተ ኈ		ሻ	∱ ⊅	
Traffic Volume (vph)	46	58	28	113	65	128	56	790	130	108	782	41
Future Volume (vph)	46	58	28	113	65	128	56	790	130	108	782	41
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Lane Util. Factor		1.00			1.00		1.00	0.95		1.00	0.95	
Frpb, ped/bikes		0.99			0.95		1.00	0.94		1.00	0.99	
Flpb, ped/bikes		0.99			0.99		0.99	1.00		1.00	1.00	
Frt		0.97			0.94		1.00	0.98		1.00	0.99	
Flt Protected		0.98			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1405			1322		1575	2797		1593	2966	
Flt Permitted		0.71			0.78		0.27	1.00		0.21	1.00	
Satd. Flow (perm)		1018			1053		454	2797		360	2966	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	50	63	30	123	71	139	61	859	141	117	850	45
RTOR Reduction (vph)	0	6	0	0	17	0	0	8	0	0	2	0
Lane Group Flow (vph)	0	137	0	0	316	0	61	992	0	117	893	0
Confl. Peds. (#/hr)	66		25	25		66	63		107	107		63
Confl. Bikes (#/hr)			7			4			4			6
Parking (#/hr)	0	0	0	0	0	0		0	0		0	0
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	
Protected Phases		4			8		1	6		5	2	
Permitted Phases	4			8			6			2		
Actuated Green, G (s)		35.9			35.9		93.1	87.7		98.9	90.6	
Effective Green, g (s)		35.9			35.9		93.1	87.7		98.9	90.6	
Actuated g/C Ratio		0.24			0.24		0.62	0.58		0.66	0.60	
Clearance Time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Vehicle Extension (s)		2.5			2.5		2.0	1.0		2.0	1.0	
Lane Grp Cap (vph)		243			252		322	1635		305	1791	
v/s Ratio Prot							0.01	c0.35		c0.02	c0.30	
v/s Ratio Perm		0.13			c0.30		0.11			0.23		
v/c Ratio		0.56			1.25		0.19	0.61		0.38	0.50	
Uniform Delay, d1		50.2			57.0		11.8	20.0		11.7	16.8	
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		2.4			141.8		0.1	1.7		0.3	1.0	
Delay (s)		52.6			198.8		11.9	21.7		11.9	17.8	
Level of Service		D			F		В	С		В	В	
Approach Delay (s)		52.6			198.8			21.2			17.1	
Approach LOS		D			F			С			В	
Intersection Summary												
HCM 2000 Control Delay			44.5	Н	CM 2000	Level of	Service		D			
3	city ratio								_			
	· J ~···-			S	um of los	t time (s)			18.1			
	ation											
	-								_			
c Critical Lane Group			-									
HCM 2000 Volume to Capa Actuated Cycle Length (s) Intersection Capacity Utiliza Analysis Period (min)	,		44.5 0.77 150.0 79.5% 15	S	CM 2000 um of los CU Level	t time (s)			D 18.1 D			

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Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	Ø9
Lane Configurations		4		- 43	7	∱ }	Ţ	↑ ↑	
Traffic Volume (vph)	47	59	114	66	57	800	109	792	
Future Volume (vph)	47	59	114	66	57	800	109	792	
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA	
Protected Phases		4		8	1	6	5	2	9
Permitted Phases	4		8		6		2		
Detector Phase	4	4	8	8	1	6	5	2	
Switch Phase									
Minimum Initial (s)	7.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	37.1	37.1	37.1	37.1	11.0	27.0	11.0	27.0	34.0
Total Split (s)	42.0	42.0	42.0	42.0	11.0	61.0	13.0	63.0	34.0
Total Split (%)	28.0%	28.0%	28.0%	28.0%	7.3%	40.7%	8.7%	42.0%	23%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0
All-Red Time (s)	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.1		6.1	6.0	6.0	6.0	6.0	
Lead/Lag					Lead	Lag	Lead	Lag	
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	
Recall Mode	None	None	None	None	None	C-Max	None	C-Max	None
Intersection Summary									

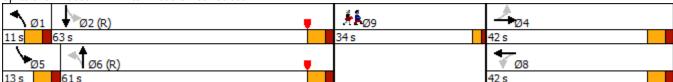
Cycle Length: 150

Actuated Cycle Length: 150

Offset: 130 (87%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 150

Control Type: Actuated-Coordinated



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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			₩		Ť	∱ ∱		ሻ	∱ ∱	
Traffic Volume (vph)	47	59	28	114	66	130	57	800	132	109	792	42
Future Volume (vph)	47	59	28	114	66	130	57	800	132	109	792	42
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Lane Util. Factor		1.00			1.00		1.00	0.95		1.00	0.95	
Frpb, ped/bikes		1.00			0.99		1.00	1.00		1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	
Frt		0.97			0.94		1.00	0.98		1.00	0.99	
Flt Protected		0.98			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1436			1389		1593	2952		1593	2999	
Flt Permitted		0.71			0.78		0.18	1.00		0.10	1.00	
Satd. Flow (perm)		1033			1105		295	2952		172	2999	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	51	64	30	124	72	141	62	870	143	118	861	46
RTOR Reduction (vph)	0	6	0	0	17	0	0	9	0	0	2	0
Lane Group Flow (vph)	0	139	0	0	320	0	62	1004	0	118	905	0
Confl. Bikes (#/hr)			7			4			4			6
Parking (#/hr)	0	0	0	0	0	0		0	0		0	0
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	
Protected Phases		4			8		1	6		5	2	
Permitted Phases	4			8			6			2		
Actuated Green, G (s)		35.9			35.9		59.0	55.0		65.0	58.0	
Effective Green, g (s)		35.9			35.9		59.0	55.0		65.0	58.0	
Actuated g/C Ratio		0.24			0.24		0.39	0.37		0.43	0.39	
Clearance Time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Vehicle Extension (s)		2.5			2.5		2.0	1.0		2.0	1.0	
Lane Grp Cap (vph)		247			264		150	1082		140	1159	
v/s Ratio Prot							0.01	c0.34		c0.04	0.30	
v/s Ratio Perm		0.13			c0.29		0.15			c0.32		
v/c Ratio		0.56			1.21		0.41	0.93		0.84	0.78	
Uniform Delay, d1		50.1			57.0		30.9	45.6		32.1	40.4	
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		2.4			124.4		0.7	14.7		33.4	5.2	
Delay (s)		52.5			181.5		31.6	60.3		65.4	45.6	
Level of Service		D			F		С	E		E	D	
Approach Delay (s)		52.5			181.5			58.7			47.9	
Approach LOS		D			F			E			D	
Intersection Summary												
HCM 2000 Control Delay			70.1	Н	CM 2000	Level of	Service		Ε			
HCM 2000 Volume to Capac	city ratio		0.78									
Actuated Cycle Length (s)			150.0		um of los				21.1			
Intersection Capacity Utilizat	tion		77.3%	IC	CU Level	of Service	е		D			
Analysis Period (min)			15									
c Critical Lane Group												

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Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	Ø9
Lane Configurations		4		4	7	∱ î≽	*	∱ ∱	
Traffic Volume (vph)	47	79	114	66	90	790	138	782	
Future Volume (vph)	47	79	114	66	90	790	138	782	
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA	
Protected Phases		4		8	1	6	5	2	9
Permitted Phases	4		8		6		2		
Detector Phase	4	4	8	8	1	6	5	2	
Switch Phase									
Minimum Initial (s)	7.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	37.1	37.1	37.1	37.1	11.0	27.0	11.0	27.0	34.0
Total Split (s)	41.0	41.0	41.0	41.0	11.0	62.0	13.0	64.0	34.0
Total Split (%)	27.3%	27.3%	27.3%	27.3%	7.3%	41.3%	8.7%	42.7%	23%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0
All-Red Time (s)	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.1		6.1	6.0	6.0	6.0	6.0	
Lead/Lag					Lead	Lag	Lead	Lag	
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	
Recall Mode	None	None	None	None	None	C-Max	None	C-Max	None
Intersection Summary									

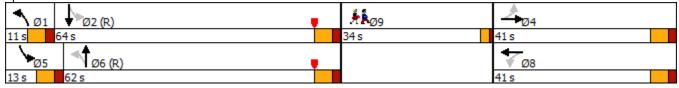
Cycle Length: 150

Actuated Cycle Length: 150

Offset: 130 (87%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 150

Control Type: Actuated-Coordinated



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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ň	ħβ		ř	ħβ	
Traffic Volume (vph)	47	79	28	114	66	130	90	790	156	138	782	42
Future Volume (vph)	47	79	28	114	66	130	90	790	156	138	782	42
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Lane Util. Factor		1.00			1.00		1.00	0.95		1.00	0.95	
Frpb, ped/bikes		1.00			0.99		1.00	1.00		1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	
Frt		0.98			0.94		1.00	0.98		1.00	0.99	
Flt Protected		0.98			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1445			1389		1593	2939		1593	2999	
Flt Permitted		0.73			0.75		0.18	1.00		0.10	1.00	
Satd. Flow (perm)		1070			1060		298	2939		173	2999	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	51	86	30	124	72	141	98	859	170	150	850	46
RTOR Reduction (vph)	0	5	0	0	18	0	0	11	0	0	2	0
Lane Group Flow (vph)	0	162	0	0	319	0	98	1018	0	150	894	0
Confl. Bikes (#/hr)			7			4			4			6
Parking (#/hr)	0	0	0	0	0	0		0	0		0	0
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	
Protected Phases		4			8		1	6		5	2	
Permitted Phases	4			8			6			2		
Actuated Green, G (s)		34.9			34.9		61.0	56.0		65.0	58.0	
Effective Green, g (s)		34.9			34.9		61.0	56.0		65.0	58.0	
Actuated g/C Ratio		0.23			0.23		0.41	0.37		0.43	0.39	
Clearance Time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Vehicle Extension (s)		2.5			2.5		2.0	1.0		2.0	1.0	
Lane Grp Cap (vph)		248			246		164	1097		141	1159	
v/s Ratio Prot							0.02	0.35		c0.05	0.30	
v/s Ratio Perm		0.15			c0.30		0.22			c0.41		
v/c Ratio		0.65			1.30		0.60	0.93		1.06	0.77	
Uniform Delay, d1		52.1			57.6		33.3	45.1		37.5	40.2	
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		5.4			160.8		3.9	14.6		93.8	5.0	
Delay (s)		57.4			218.3		37.1	59.6		131.3	45.2	
Level of Service		E			F		D	E		F	D	
Approach Delay (s)		57.4			218.3			57.7			57.5	
Approach LOS		E			F			E			E	
Intersection Summary												
HCM 2000 Control Delay			77.8	Н	CM 2000	Level of	Service		Е			
HCM 2000 Volume to Capac	city ratio		0.89									
Actuated Cycle Length (s)			150.0		um of los				21.1			
Intersection Capacity Utilizat	tion		79.7%	IC	CU Level	of Service	9		D			
Analysis Period (min)			15									
c Critical Lane Group												

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Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	Ø9
Lane Configurations		- ↔		4	7	∱ ∱	*	∱ ∱	
Traffic Volume (vph)	47	77	114	66	90	807	109	782	
Future Volume (vph)	47	77	114	66	90	807	109	782	
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA	
Protected Phases		4		8	1	6	5	2	9
Permitted Phases	4		8		6		2		
Detector Phase	4	4	8	8	1	6	5	2	
Switch Phase									
Minimum Initial (s)	7.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	37.1	37.1	37.1	37.1	11.0	27.0	11.0	27.0	34.0
Total Split (s)	41.0	41.0	41.0	41.0	11.0	64.0	11.0	64.0	34.0
Total Split (%)	27.3%	27.3%	27.3%	27.3%	7.3%	42.7%	7.3%	42.7%	23%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0
All-Red Time (s)	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.1		6.1	6.0	6.0	6.0	6.0	
Lead/Lag					Lead	Lag	Lead	Lag	
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	
Recall Mode	None	None	None	None	None	C-Max	None	C-Max	None
Intersection Summary									

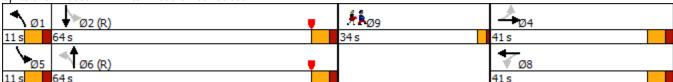
Cycle Length: 150

Actuated Cycle Length: 150

Offset: 130 (87%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 150

Control Type: Actuated-Coordinated



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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	∱ ∱		ሻ	∱ ∱	
Traffic Volume (vph)	47	77	28	114	66	130	90	807	178	109	782	71
Future Volume (vph)	47	77	28	114	66	130	90	807	178	109	782	71
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Lane Util. Factor		1.00			1.00		1.00	0.95		1.00	0.95	
Frpb, ped/bikes		1.00			0.99		1.00	1.00		1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	
Frt		0.98			0.94		1.00	0.97		1.00	0.99	
Flt Protected		0.98			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1444			1389		1593	2932		1593	2982	
Flt Permitted		0.73			0.75		0.16	1.00		0.10	1.00	
Satd. Flow (perm)		1066			1063		265	2932		171	2982	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	51	84	30	124	72	141	98	877	193	118	850	77
RTOR Reduction (vph)	0	5	0	0	18	0	0	12	0	0	4	0
Lane Group Flow (vph)	0	160	0	0	319	0	98	1058	0	118	923	0
Confl. Bikes (#/hr)		_	7			4			4			6
Parking (#/hr)	0	0	0	0	0	0		0	0		0	0
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	
Protected Phases		4			8		1	6		5	2	
Permitted Phases	4			8			6			2		
Actuated Green, G (s)		34.9			34.9		63.0	58.0		63.0	58.0	
Effective Green, g (s)		34.9			34.9		63.0	58.0		63.0	58.0	
Actuated g/C Ratio		0.23			0.23		0.42	0.39		0.42	0.39	
Clearance Time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Vehicle Extension (s)		2.5			2.5		2.0	1.0		2.0	1.0	
Lane Grp Cap (vph)		248			247		155	1133		119	1153	
v/s Ratio Prot							0.02	0.36		c0.03	0.31	
v/s Ratio Perm		0.15			c0.30		0.24			c0.38		
v/c Ratio		0.64			1.29		0.63	0.93		0.99	0.80	
Uniform Delay, d1		51.9			57.6		32.7	44.2		41.6	40.9	
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		5.0			158.6		6.0	14.9		79.5	5.9	
Delay (s)		56.9			216.1		38.8	59.1		121.1	46.7	
Level of Service		E			F		D	E		F	D	
Approach Delay (s)		56.9			216.1			57.3			55.1	
Approach LOS		Е			F			E			E	
Intersection Summary												
HCM 2000 Control Delay			76.2	Н	CM 2000	Level of	Service		Е			
HCM 2000 Volume to Capa	city ratio		0.83									
Actuated Cycle Length (s)			150.0		um of los				21.1			
Intersection Capacity Utiliza	ition		79.3%	IC	CU Level	of Service	9		D			
Analysis Period (min)			15									
c Critical Lane Group												



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Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations		4		4	ሻ	∱ î≽	ሻ	ħβ
Traffic Volume (vph)	39	67	110	48	26	840	142	876
Future Volume (vph)	39	67	110	48	26	840	142	876
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA
Protected Phases		4		8	1	6	5	2
Permitted Phases	4		8		6		2	
Detector Phase	4	4	8	8	1	6	5	2
Switch Phase								
Minimum Initial (s)	7.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0
Minimum Split (s)	37.1	37.1	37.1	37.1	11.0	27.0	11.0	27.0
Total Split (s)	37.0	37.0	37.0	37.0	18.0	75.0	18.0	75.0
Total Split (%)	28.5%	28.5%	28.5%	28.5%	13.8%	57.7%	13.8%	57.7%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		6.1		6.1	6.0	6.0	6.0	6.0
Lead/Lag					Lead	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	C-Max	None	C-Max
Intersection Summary								

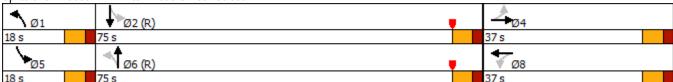
Cycle Length: 130

Actuated Cycle Length: 130

Offset: 38 (29%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated



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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		7	∱ ∱		7	∱ î≽	
Traffic Volume (vph)	39	67	22	110	48	163	26	840	117	142	876	39
Future Volume (vph)	39	67	22	110	48	163	26	840	117	142	876	39
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Lane Util. Factor		1.00			1.00		1.00	0.95		1.00	0.95	
Frpb, ped/bikes		0.99			0.93		1.00	0.94		1.00	0.98	
Flpb, ped/bikes		0.98			0.98		0.98	1.00		1.00	1.00	
Frt		0.98			0.93		1.00	0.98		1.00	0.99	
Flt Protected		0.98			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1409			1261		1565	2783		1593	2958	
Flt Permitted		0.75			0.81		0.26	1.00		0.20	1.00	
Satd. Flow (perm)		1067			1035		434	2783		337	2958	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	41	70	23	115	50	170	27	875	122	148	912	41
RTOR Reduction (vph)	0	6	0	0	28	0	0	8	0	0	2	0
Lane Group Flow (vph)	0	128	0	0	307	0	27	989	0	148	952	0
Confl. Peds. (#/hr)	96		49	49		96	117		172	172		117
Confl. Bikes (#/hr)			8			17						8
Parking (#/hr)	0	0	0	0	0	0		0	0		0	0
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	
Protected Phases		4			8		. <u>.</u> 1	6		5	2	
Permitted Phases	4			8			6			2		
Actuated Green, G (s)		30.9			30.9		75.5	72.1		86.5	77.6	
Effective Green, g (s)		30.9			30.9		75.5	72.1		86.5	77.6	
Actuated g/C Ratio		0.24			0.24		0.58	0.55		0.67	0.60	
Clearance Time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Vehicle Extension (s)		2.5			2.5		2.0	1.0		2.0	1.0	
Lane Grp Cap (vph)		253			246		281	1543		310	1765	
v/s Ratio Prot							0.00	c0.36		c0.03	c0.32	
v/s Ratio Perm		0.12			c0.30		0.05			0.28		
v/c Ratio		0.51			1.25		0.10	0.64		0.48	0.54	
Uniform Delay, d1		42.9			49.6		11.9	20.0		11.0	15.6	
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		1.2			140.4		0.1	2.1		0.4	1.2	
Delay (s)		44.1			190.0		12.0	22.1		11.5	16.8	
Level of Service		D			F		В	С		В	В	
Approach Delay (s)		44.1			190.0			21.8			16.1	
Approach LOS		D			F			С			В	
Intersection Summary												
HCM 2000 Control Delay			42.2	Н	CM 2000	Level of	Service		D			
HCM 2000 Volume to Capa	acity ratio		0.80						_			
Actuated Cycle Length (s)	<i>J</i> -		130.0	S	um of los	t time (s)			18.1			
Intersection Capacity Utiliza	ation		85.0%		CU Level				E			
Analysis Period (min)			15						_			
c Critical Lane Group			-									
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Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	Ø9
Lane Configurations		4		4	7	∱ î≽	*	∱ ∱	
Traffic Volume (vph)	39	68	111	49	26	850	144	887	
Future Volume (vph)	39	68	111	49	26	850	144	887	
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA	
Protected Phases		4		8	1	6	5	2	9
Permitted Phases	4		8		6		2		
Detector Phase	4	4	8	8	1	6	5	2	
Switch Phase									
Minimum Initial (s)	7.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	13.1	13.1	13.1	13.1	11.0	27.0	11.0	27.0	34.0
Total Split (s)	32.0	32.0	32.0	32.0	11.0	53.0	11.0	53.0	34.0
Total Split (%)	24.6%	24.6%	24.6%	24.6%	8.5%	40.8%	8.5%	40.8%	26%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0
All-Red Time (s)	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.1		6.1	6.0	6.0	6.0	6.0	
Lead/Lag					Lead	Lag	Lead	Lag	
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	
Recall Mode	None	None	None	None	None	C-Max	None	C-Max	None
Intersection Summary									

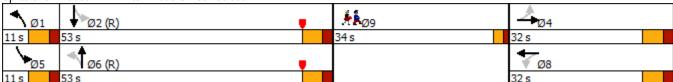
Cycle Length: 130

Actuated Cycle Length: 130

Offset: 38 (29%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 150

Control Type: Actuated-Coordinated



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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		₩			4		Ť	∱ ∱		Ť	∱ ∱	
Traffic Volume (vph)	39	68	22	111	49	165	26	850	118	144	887	39
Future Volume (vph)	39	68	22	111	49	165	26	850	118	144	887	39
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Lane Util. Factor		1.00			1.00		1.00	0.95		1.00	0.95	
Frpb, ped/bikes		1.00			0.98		1.00	1.00		1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	
Frt		0.98			0.93		1.00	0.98		1.00	0.99	
Flt Protected		0.99			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1447			1360		1593	2971		1593	3003	
Flt Permitted		0.70			0.79		0.15	1.00		0.11	1.00	
Satd. Flow (perm)		1035			1096		245	2971		178	3003	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	41	71	23	116	51	172	27	885	123	150	924	41
RTOR Reduction (vph)	0	6	0	0	29	0	0	8	0	0	2	0
Lane Group Flow (vph)	0	129	0	0	310	0	27	1000	0	150	963	0
Confl. Bikes (#/hr)			8			17						8
Parking (#/hr)	0	0	0	0	0	0		0	0		0	0
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	
Protected Phases		4			8		1	6		5	2	
Permitted Phases	4			8			6			2		
Actuated Green, G (s)		25.9			25.9		50.0	47.0		54.0	49.0	
Effective Green, g (s)		25.9			25.9		50.0	47.0		54.0	49.0	
Actuated g/C Ratio		0.20			0.20		0.38	0.36		0.42	0.38	
Clearance Time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Vehicle Extension (s)		2.5			2.5		2.0	1.0		2.0	1.0	
Lane Grp Cap (vph)		206			218		125	1074		128	1131	
v/s Ratio Prot							0.00	0.34		c0.04	0.32	
v/s Ratio Perm		0.13			c0.28		0.08			c0.44		
v/c Ratio		0.63			1.42		0.22	0.93		1.17	0.85	
Uniform Delay, d1		47.6			52.0		27.4	39.9		35.6	37.2	
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		5.1			214.9		0.3	15.2		133.1	8.1	
Delay (s)		52.7			266.9		27.7	55.1		168.6	45.3	
Level of Service		D			F		С	Ε		F	D	
Approach Delay (s)		52.7			266.9			54.4			61.9	
Approach LOS		D			F			D			Е	
Intersection Summary												
HCM 2000 Control Delay			84.9	Н	CM 2000	Level of	Service		F			
HCM 2000 Volume to Capa	city ratio		0.92									
Actuated Cycle Length (s)			130.0		um of los				21.1			
Intersection Capacity Utiliza	ition		81.8%	IC	CU Level	of Service	е		D			
Analysis Period (min)			15									
c Critical Lane Group												

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Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	Ø9
Lane Configurations		- ↔		- 4	7	∱ ∱	7	∱ ∱	
Traffic Volume (vph)	39	98	111	49	65	850	179	887	
Future Volume (vph)	39	98	111	49	65	850	179	887	
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA	
Protected Phases		4		8	1	6	5	2	9
Permitted Phases	4		8		6		2		
Detector Phase	4	4	8	8	1	6	5	2	
Switch Phase									
Minimum Initial (s)	7.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	13.1	13.1	13.1	13.1	11.0	11.0	11.0	11.0	34.0
Total Split (s)	33.0	33.0	33.0	33.0	11.0	49.0	14.0	52.0	34.0
Total Split (%)	25.4%	25.4%	25.4%	25.4%	8.5%	37.7%	10.8%	40.0%	26%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0
All-Red Time (s)	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.1		6.1	6.0	6.0	6.0	6.0	
Lead/Lag					Lead	Lag	Lead	Lag	
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	
Recall Mode	None	None	None	None	None	C-Max	None	C-Max	None
Intersection Summary									

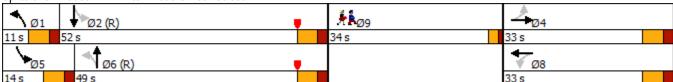
Cycle Length: 130

Actuated Cycle Length: 130

Offset: 38 (29%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 150

Control Type: Actuated-Coordinated



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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	∱ î≽		ሻ	∱ ∱	
Traffic Volume (vph)	39	98	22	111	49	165	65	850	144	179	887	39
Future Volume (vph)	39	98	22	111	49	165	65	850	144	179	887	39
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.1			6.1		6.0	6.0		6.0	6.0	
Lane Util. Factor		1.00			1.00		1.00	0.95		1.00	0.95	
Frpb, ped/bikes		1.00			0.98		1.00	1.00		1.00	1.00	
Flpb, ped/bikes		1.00			1.00		1.00	1.00		1.00	1.00	
Frt		0.98			0.93		1.00	0.98		1.00	0.99	
Flt Protected		0.99			0.98		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		1458			1361		1593	2960		1593	3003	
Flt Permitted		0.75			0.75		0.14	1.00		0.09	1.00	
Satd. Flow (perm)		1110			1034		236	2960		143	3003	
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	41	102	23	116	51	172	68	885	150	186	924	41
RTOR Reduction (vph)	0	5	0	0	29	0	0	11	0	0	3	0
Lane Group Flow (vph)	0	161	0	0	310	0	68	1024	0	186	962	0
Confl. Bikes (#/hr)	0	0	8	0	0	17		0	0		0	8
Parking (#/hr)	0	0	0	0	0	0		0	0		0	0
Turn Type	Perm	NA		Perm	NA		pm+pt	NA		pm+pt	NA	
Protected Phases		4		0	8		1	6		5	2	
Permitted Phases	4	27.0		8	27.0		6	42.0		2	47.0	
Actuated Green, G (s)		26.9			26.9		47.0	43.0		55.0	47.0	
Effective Green, g (s)		26.9 0.21			26.9 0.21		47.0	43.0 0.33		55.0 0.42	47.0 0.36	
Actuated g/C Ratio Clearance Time (s)		6.1			6.1		0.36 6.0	6.0		6.0	6.0	
Vehicle Extension (s)		2.5			2.5		2.0	1.0		2.0	1.0	
Lane Grp Cap (vph)		229			213		127	979		149	1085	
v/s Ratio Prot		229			213		0.02	0.35		c0.08	c0.32	
v/s Ratio Prot v/s Ratio Perm		0.15			c0.30		0.02	0.33		c0.45	CU.32	
v/c Ratio		0.13			1.46		0.16	1.05		1.25	0.89	
Uniform Delay, d1		47.9			51.5		30.0	43.5		31.7	39.0	
Progression Factor		1.00			1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		8.8			230.0		2.2	41.6		155.4	10.8	
Delay (s)		56.6			281.5		32.1	85.1		187.1	49.8	
Level of Service		E			F		C	F		F	D	
Approach Delay (s)		56.6			281.5		· ·	81.9		•	72.0	
Approach LOS		E			F			F			E	
Intersection Summary												
HCM 2000 Control Delay			100.7	H	CM 2000	Level of	Service	_	F	_	_	
HCM 2000 Volume to Capa	city ratio		0.98									
Actuated Cycle Length (s)	-		130.0	S	um of los	t time (s)			21.1			
Intersection Capacity Utiliza	tion		84.9%	IC	CU Level	of Service	Э		Е			
Analysis Period (min)			15									
c Critical Lane Group												

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Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	Ø9
Lane Configurations		- ↔		4	7	∱ î≽	*	∱ ∱	
Traffic Volume (vph)	39	95	111	49	65	876	144	887	
Future Volume (vph)	39	95	111	49	65	876	144	887	
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	pm+pt	NA	
Protected Phases		4		8	1	6	5	2	9
Permitted Phases	4		8		6		2		
Detector Phase	4	4	8	8	1	6	5	2	
Switch Phase									
Minimum Initial (s)	7.0	7.0	7.0	7.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	13.1	13.1	13.1	13.1	11.0	27.0	11.0	27.0	34.0
Total Split (s)	31.0	31.0	31.0	31.0	11.0	51.0	14.0	54.0	34.0
Total Split (%)	23.8%	23.8%	23.8%	23.8%	8.5%	39.2%	10.8%	41.5%	26%
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0
All-Red Time (s)	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.1		6.1	6.0	6.0	6.0	6.0	
Lead/Lag					Lead	Lag	Lead	Lag	
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	
Recall Mode	None	None	None	None	None	C-Max	None	C-Max	None
Intersection Summary									

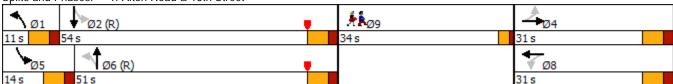
Cycle Length: 130

Actuated Cycle Length: 130

Offset: 38 (29%), Referenced to phase 2:SBTL and 6:NBTL, Start of Yellow

Natural Cycle: 150

Control Type: Actuated-Coordinated



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T SBR	SBT	SBL	NBR	NBT	NBL	WBR	WBT	WBL	EBR	EBT	EBL	Movement
•	∱ ∱	Ŋ		∱ ∱	¥		4			4		Lane Configurations
7 74	887	144	175	876	65	165	49	111	22	95	39	Traffic Volume (vph)
7 74	887	144	175	876	65	165	49	111	22	95	39	Future Volume (vph)
1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	Ideal Flow (vphpl)
	6.0	6.0		6.0	6.0		6.1			6.1		Total Lost time (s)
5	0.95	1.00		0.95	1.00		1.00			1.00		Lane Util. Factor
)	1.00	1.00		1.00	1.00		0.98			1.00		Frpb, ped/bikes
	1.00	1.00		1.00	1.00		1.00			1.00		Flpb, ped/bikes
	0.99	1.00		0.98	1.00		0.93			0.98		Frt
	1.00	0.95		1.00	0.95		0.98			0.99		Flt Protected
	2985	1593		2951	1593		1360			1457		Satd. Flow (prot)
	1.00	0.08		1.00	0.14		0.74			0.73		Flt Permitted
5	2985	137		2951	229		1026			1079		Satd. Flow (perm)
6 0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	Peak-hour factor, PHF
4 77	924	150	182	912	68	172	51	116	23	99	41	Adj. Flow (vph)
5 0	5	0	0	13	0	0	28	0	0	5	0	RTOR Reduction (vph)
6 0	996	150	0	1082	68	0	311	0	0	158	0	Lane Group Flow (vph)
8						17			8			Confl. Bikes (#/hr)
0 0	0		0	0		0	0	0	0	0	0	Parking (#/hr)
4	NA	pm+pt		NA	pm+pt		NA	Perm		NA	Perm	Turn Type
	2	5		6	. i		8			4		Protected Phases
		2			6			8			4	Permitted Phases
)	49.0	57.0		45.0	49.0		24.9			24.9		Actuated Green, G (s)
)	49.0	57.0		45.0	49.0		24.9			24.9		Effective Green, g (s)
3	0.38	0.44		0.35	0.38		0.19			0.19		Actuated g/C Ratio
J	6.0	6.0		6.0	6.0		6.1			6.1		Clearance Time (s)
)	1.0	2.0		1.0	2.0		2.5			2.5		Vehicle Extension (s)
5	1125	149		1021	128		196			206		Lane Grp Cap (vph)
3	c0.33	c0.06		c0.37	0.02							v/s Ratio Prot
		0.38			0.18		c0.30			0.15		v/s Ratio Perm
)	0.89	1.01		1.06	0.53		1.59			0.77		v/c Ratio
)	37.9	32.4		42.5	28.8		52.5			49.8		Uniform Delay, d1
)	1.00	1.00		1.00	1.00		1.00			1.00		3
3	10.3	75.5		45.4	2.1		286.2			15.0		•
2	48.2	107.9		87.9	31.0		338.8			64.9		•
)	D	F		F	С		F			Ε		Level of Service
)	56.0			84.5			338.8			64.9		Approach Delay (s)
Ξ	Ε			F			F			Ε		Approach LOS
												Intersection Summary
			F		Service	Level of	CM 2000	Н	102.3			HCM 2000 Control Delay
											city ratio	
			21.1			t time (s)	um of los	Sı			,	•
			E		9	of Service			84.7%		tion	Intersection Capacity Utiliza
									15			
												c Critical Lane Group
9 9 0 3 2 0	0.89 37.9 1.00 10.3 48.2 D 56.0	0.38 1.01 32.4 1.00 75.5 107.9	21.1	1.06 42.5 1.00 45.4 87.9 F 84.5	0.18 0.53 28.8 1.00 2.1 31.0 C	t time (s)	1.59 52.5 1.00 286.2 338.8 F 338.8 F CM 2000	Sı	0.88 130.0 84.7%	0.77 49.8 1.00 15.0 64.9 E 64.9	,	v/s Ratio Perm v/c Ratio Uniform Delay, d1 Progression Factor Incremental Delay, d2 Delay (s) Level of Service Approach Delay (s) Approach LOS Intersection Summary HCM 2000 Control Delay HCM 2000 Volume to Capa Actuated Cycle Length (s) Intersection Capacity Utiliza Analysis Period (min)