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MEMORANDUM

- To: Firat Akcay City of Miami Beach
- From: Adrian K. Dabkowski, P.E., PTOE
- Cc: Josiel Ferrer, P.E., City of Miami Beach

Date: September 13, 2019

Subject: 6985 Abbott Avenue Miami Beach, Florida Valet Analysis

Kimley-Horn and Associates, Inc. has performed a valet analysis for the proposed 6985 Abbott Avenue development located in the southeast quadrant at the intersection of SR 934/71st Street and Abbott Avenue in Miami Beach, Florida. Currently, the site proposed for redevelopment consists of two (2) office buildings, one (1) with 13,424 square feet and the other with 63,069 square feet for a total of 76,493 square feet. The proposed redevelopment consists of 110 multifamily residential units, 1,264 square feet of retail space, two (2) office buildings, one (1) with 63,069 square feet and the other with 8,375 square feet for a total of 71,444 square feet, and a 5,049 square-foot coffee shop without drive-through. A project location map and conceptual site plan are provided in Attachment A.

VALET SERVICE AND OPERATIONS

Access to the proposed development will be provided by one (1) right-in/left-in limited access driveway along Harding Avenue located just south of SR 934/71st Street and one (1) limited access left-out only driveway along SR A1A/Abbott Avenue located just south of SR 934/71st Street.

Self-parking will be provided on-site. All other vehicles will either be valet or taxi/rideshare and will conduct drop-off/pick-up operations on-site. The redevelopment will be served by one (1) valet drop-off area located on-site just west of Harding Avenue and one (1) valet pick-up area located on-site just east of SR A1A/Abbott Avenue. The valet drop-off/pick-up areas consist of one (1) lane with a vehicle storage of approximately three (3) vehicle spaces and one (1) by-pass lane. It is assumed that two (2) spaces will be used for valet operations and one (1) space will be used for taxi/rideshare.

Valet drop-off/pick-up operations are contained within the site and are not expected to impact the external roadway network. It is assumed that valet pick-up vehicles will exit the site via the SR A1A/Abbott Avenue project driveway. Figure 2 contained in Attachment A provides a graphic illustration of the proposed valet routes to and from the on-site parking garage.

TRIP GENERATION

Trip generation calculations for the proposed development were performed using Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 10th Edition. The trip generation for the proposed

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redevelopment was determined using ITE LUC 710 (Office Building), ITE LUC 222 (Multifamily Housing [High-Rise]), ITE LUC 820 (Shopping Center), and ITE LUC 936 (Coffee/Donut Shop without Drive-Through Window). Project trips were estimated for the weekday A.M. and P.M. peak hours.

A multimodal (public transit, bicycle, and pedestrian) factor based on US Census *Means of Transportation to Work* data was reviewed for the census tract in the vicinity of the development. The US Census data indicated that there is a 25.1 percent (25.1%) multimodal factor within the vicinity of the development. However, 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 based on direction by the City of Miami Beach. It is expected that residents and patrons will choose to walk or use public transit to and from the proposed development. Transit route information will be documented in the report.

Internal capture is expected between the complementary land uses within the project. Internal capture trips for the project were determined based upon methodology contained in the *ITE's Trip Generation Handbook*, 3rd Edition. The internal capture rate for the redevelopment is expected to be 8.1 percent (8.1%) during the A.M. peak hour and 17.3% percent (17.3%) during the P.M. peak hour.

Pass-by capture rates were determined based on average rates provided in the ITE's *Trip Generation Handbook,* 3rd Edition. The pass-by rate for the proposed shopping center is 34.0 percent (34.0%) during the P.M. peak hour. The pass-by rate for the proposed coffee shop without drive-through is 89.0 percent (89.0%) during the A.M. and P.M peak hours.

The redevelopment is expected to generate 54 weekday net new A.M. peak hour trips and 33 weekday net new P.M. peak hour trips. Detailed trip generation calculations and US Census *Means of Transportation to Work* data are included in Attachment B.

The A.M. peak hour generates more trips than the P.M. peak hour. Therefore, the valet analysis was prepared for the A.M. peak hour. Based on data collected at Axis Brickell located at 1111 SW 12th Street in Miami, Florida, a 5.2 percent (5.2%) valet rate was applied to net new residential trips. A 10.0 percent (10.0%) valet rate was assumed for the office and coffee shop. A 50.0 percent (50%) valet rate was assumed for the retail. Therefore, the project is expected to generate 54 net new valet trips during the A.M. peak hour. Detailed trip generation calculations, rideshare data, and valet trip data are included in Attachment B.

VALET OPERATIONS ANALYSIS

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

Valet Assumptions

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

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Valet attendants will be stationed at the on-site drop-off/pick-up areas. 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 on-site parking garage and return to the drop-off area. 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 pick-up area. 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 area to on-site parking garage (1.2 minutes)
- Valet attendant returns to drop-off area (0.8 minutes)
- Total service rate: 2.5 minutes

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

- Valet attendant proceeds to the garage to retrieve the vehicle (0.5 minutes)
- Valet attendant drives vehicle from on-site parking garage to the pick-up area (1.2 minutes)
- Exchange between valet attendant and driver (0.5 minutes)
- Total service rate: 2.2 minutes

The calculated average service time is 2.5 minutes for valet drop-off operations and 2.2 minutes for valet pick-up operations. Detailed trip length calculations are included in Attachment C.

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

The analysis determined the required queue storage, M, which is exceeded P percent of the time. This analysis seeks to ensure that the queue length does not exceed the storage provided at a level of confidence of 95 percent (95%). Two (2) vehicle drop-off/pick-up spaces are provided for valet operations based on the attached site plan for the valet drop-off/pick-up area.

Valet Analysis

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

Results of the highest demand condition valet operations analysis demonstrate that three (3) valet attendants would be required at the valet drop-off area and two (2) valet attendant would be required at the valet pick-up area so that the vehicle drop-off and pick-up storage areas would not be exceeded.



VALET CONCLUSION

Based on the valet operations analysis performed, it was determined that the 95th percentile valet queues will not extend beyond the valet service area onto Harding Avenue. Based upon the conservative assumptions applied to the highest traffic demand condition, it was estimated that total of five (5) valet attendants may be required during peak periods for the valet drop-off and pick-up areas. It should be noted that projected vehicular volumes and estimated valet processing times were conservatively assumed in the analysis.

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Attachment A

Conceptual Site Plan and Project Location Map





Kimley »Horn © 2019 Figure 1 Location Map 6985 Abbott Avenue Miami Beach, Florida

Attachment B

Trip Generation and Valet Data

AM PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY AM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS				DIREC	TIONAL		GROS	S	MULTI	MODAL				INTE	RNAL		NET NEW		PAS	S-BY		NET NEW	(
	TTE TRIP GENERATION C	HARAC	TERIST	ics		DISTRI	BULION		VOLUM	ES	REDU	CTION	EXI	ERNAL	TRIPS	CAP	IURE	EXI	ERNAL IF	aps	CAP	TURE	EXI	ERNAL IF	RIPS
		ITE	ITE		ITE	Per	cent					MR					IC					PB			
	Land Use	Edition	Code	Scale	Units	In	Out	In	Out	Total	Percent	Trips	In	Out	Total	Percent	Trips	In	Out	Total	Percent	Trips	In	Out	Total
1	General Office Building	10	710	76.493	ksf	86%	14%	84	14	98	20.0%	20	67	11	78	0.0%	0	67	11	78	0.0%	0	67	11	78
2																									
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4																									
G 5																									
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0 7																									
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P 9																									
10																									
1 11																									
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· · ·	ITE Land Use Code Rate or Equation						Total:	84	14	98	20.0%	20	67	11	78	0.0%	0	67	11	78	0.0%	0	67	11	78
	710	710 Y=0.94*(X)+																							

94*(X)+:

PROPOSED WEEKDAY AM PEAK HOUR TRIP GENERATION

						DIRECTIONAL DISTRIBUTION		GROSS VOLUMES		MULTIMODAL REDUCTION		EXT	ERNAL	TRIPS	INTE CAP	RNAL TURE	EXT	NET NEW	RIPS	PAS	S-BY TURE	EXT	NET NEW ERNAL TR	RIPS	
	L and Line	ITE	ITE	Coolo	ITE	Per	cent	In	0.4	Total	Dercent	MR	la.	01	Total	Bernent	IC Trine	le.	0.4	Total	Demont	PB	le.	0.01	Total
	Land Ose	10	222	110	du	24%	76%	11	33	10101	20.0%	0		26	35	17 1%	6	0	20	20	0.0%	0	0	20	20
2	Reason Costs	10	820	1.264	kef	62%	38%	1	0	1	20.0%	0	1	20	1	0.0%	0	1	20	1	0.0%	0	1	20	1
2	Snopping Center	10	710	71 444	kef	86%	14%	81	13	0/	20.0%	10	65	10	75	21.3%	16	55	4	50	0.0%	0	55	4	50
3	General Office Building	10	036	5.049	kef	51%	1470	261	250	54	20.0%	102	200	200	100	21.3%	20	109	4	290	0.0%	246	33	- 4	42
6 5	Cottee/Donut Shop without Drive- I hrough Window	10	330	3.043	Koi	5170	4370	201	200	311	20.0%	102	209	200	409	4.370	20	190	191	309	09.0%	340	22	21	43
B 6																									
1 1																									
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15	ITE Lond Llos Onde						Tatal	054	000	050	00.0%	400	004	000	500	0.4%	10	000	045	470	70.4%	0.40	07	45	400
	ITE Land Use Code Rate or Equation						I otal:	354	296	650	20.0%	130	284	236	520	8.1%	42	263	215	478	72.4%	346	87	45	132
	222 Y=0.28*(X)+12.8																								
	820 Y=0.94(X)																								
	710 Y=0.94*(X)+26.49				6.49														Residentia	I Net New E	Exterant Trip	s	9	20	29
	936 Y=101.14(X)				<)														10% Valet	Utilization	1		5.2%	5.2%	5.2%

Residential Net New Exteranl Trips	9	20	29
10% Valet Utilization	5.2%	5.2%	5.2%
Proposed Residential Valet Trips	1	1	2
Retail Net New External Trips	1	0	1
50% Valet Utilization	50.0%	50.0%	50.0%
Proposed Retail Valet Trips	1	0	1
Office Net New External Trips	55	4	59
10% Valet Utilization	10%	10%	10%
Proposed Office Valet Trips	6	0	6
Coffee Shop Net New External Trips	198	191	389
10% Valet Utilization	10%	10%	10%
Proposed Restaurant Valet Trips	20	19	39
Total A M. Peak Hour Valet Trips	28	20	49

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PM PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATION	ITE TRIP GENERATION CHARACTERISTICS				DIREC	TIONAL BUTION	GROSS VOLUMES		MULTIMODAL REDUCTION		EXTERNAL TRIPS		TRIPS	INTE CAP	RNAL TURE	EX	NET NEW	RIPS	PAS CAP	S-BY TURE	EX	NET NEW	IPS	
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Per	Cent Out	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
1	General Office Building	10	710	76.493	ksf	16%	84%	14	74	88	20.0%	18	11	59	70	0.0%	0	11	59	70	0.0%	0	11	59	70
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12																									1
13																									
14																									L.
15																									1
	ITE Land Use Code		Ra	ite or Equa	tion		Total:	14	74	88	20.0%	18	11	59	70	0.0%	0	11	59	70	0.0%	0	11	59	70
	710 LN(Y) = 0.95 ⁴ LN(X)																								-

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

						DIREC	GROSS VOLUMES		MULTIMODAL REDUCTION		EXTERNAL TRIPS		INTE CAP	RNAL TURE	EX	NET NEW	RIPS	PAS CAP	S-BY TURE	EX	NET NEW	IPS			
	Land Use	ITE	ITE Code	Scale	ITE	Per	Cent	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
1	Multifamily Housing (High-Rise)	10	222	110	du	61%	39%	28	18	46	20.0%	9	23	14	37	32.4%	12	16	9	25	0.0%	0	16	9	25
2	Shopping Center	10	820	1.264	ksf	48%	52%	10	11	21	20.0%	4	8	9	17	64.7%	11	2	4	6	34.0%	2	1	3	4
3	General Office Building	10	710	71.444	ksf	16%	84%	13	70	83	20.0%	17	10	56	66	9.1%	6	7	53	60	0.0%	0	7	53	60
4	Coffee/Donut Shop without Drive-Through Window	10	936	5.049	ksf	50%	50%	92	91	183	20.0%	37	73	73	146	11.6%	17	66	63	129	89.0%	115	7	7	14
G 5																									
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	ITE Land Use Code	ITE Land Use Code Rate or Equation Total: 143 190 333 20.0% 67 114 152								152	266	17.3%	46	91	129	220	53.2%	117	31	72	103				
	222	222 Y=0.34*(X)+8.56																							
	820 LN(Y) = 0.74*LN(X)+2.89																								
	710 LN(Y) = 0.95*LN(X)+0.36																		Residentia	I Net New E	xteranl Trips	S	16	9	25
	936	936 Y=36.31(X)																	10% Valet	Utilization			10.0%	10.0%	10.0%

Y=0.34*(X)+8.56
LN(Y) = 0.74*LN(X)+2.89
LN(Y) = 0.95*LN(X)+0.36
Y=36.31(X)

Residential Net New Exteranl Trips	16	9	25
10% Valet Utilization	10.0%	10.0%	10.0%
Proposed Residential Valet Trips	2	1	3
Retail Net New External Trips	2	4	6
50% Valet Utilization	50.0%	50.0%	50.0%
Proposed Retail Valet Trips	1	2	3
Office Net New External Trips	7	52	60
10% Valet Utilization	10%	10%	10%
Proposed Office Valet Trips	1	5	6
Coffee Shop Net New External Trips	66	63	129
10% Valet Utilization	10%	10%	10%
Proposed Restaurant Valet Trips	7	6	13
Total P.M. Peak Hour Valet Trips	11	14	25

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Internal Capture Reduction Calculations

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

Methodology for Daily

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

SUMMARY (EXISTING)

		(GROSS TRIP GENERATION						
	Land Lies	A.M. Pea	ak Hour	P.M. Pea	ak Hour				
	Land Use	Enter	Exit	Enter	Exit				
H	Office	67	11	11	59				
Ď	Retail	0	0	0	0				
Ę	Restaurant	0	0	0	0				
2	Cinema/Entertainment	0	0	0	0				
	Residential	0	0	0	0				
	Hotel	0	0	0	0				
		67	11	11	59				
			INTERNAL TRIPS						
	Landling	A.M. Pea	ak Hour	P.M. Pea	ak Hour				
L	Land Use	Enter	Exit	Enter	Exit				
5	Office	0	0	0	0				
Ы	Retail	0	0	0	0				
F	Restaurant	0	0	0	0				
2	Cinema/Entertainment	0	0	0	0				
U	Residential	0	0	0	0				
	Hotel	0	0	0	0				
		0	0	0	0				
	Total % Reduction	0.0	%	0.0	%				
F	Office	0.0	%	0.0	%				
N	Retail								
Ë	Restaurant								
\supset	Cinema/Entertainment								
0	Residential								
	Hotel								
EXTERNAL TRIPS									
	Land Use	A.M. Pea	ak Hour	P.M. Pea	ak Hour				
H		Enter	Exit	Enter	Exit				
\Box	Office	67	11	11	59				
4	Retail	0	0	0	0				
5	Restaurant	0	0	0	0				
ō	Cinema/Entertainment	0	0	0	0				
•	Residential	0	0	0	0				
	Hotel	0	0	0	0				
		67	11	11	59				

Internal Capture Reduction Calculations

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

Methodology for Daily

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

SUMMARY (PROPOSED)

			GROSS TRIP GENERATION	I						
	Land Lise	A.M. Pe	eak Hour	P.M. Pea	ak Hour					
		Enter	Exit	Enter	Exit					
F	Office	65	10	10	56					
Ņ	Retail	1	0	8	9					
	Restaurant	209	200	73	73					
=	Cinema/Entertainment	0	0	0	0					
	Residential	9	26	23	14					
	Hotel	0	0	0	0					
		284	236	114	152					
			INTERNAL TRIPS							
	Land Lico	A.M. Pe	eak Hour	P.M. Pea	ak Hour					
L	Land Ose	Enter	Exit	Enter	Exit					
5	Office	10	6	3	3					
d	Retail	0	0	6	5					
5	Restaurant	11	9	7	10					
อ	Cinema/Entertainment	0	0	0	0					
•	Residential	0	6	7	5					
	Hotel	0	0	0	0					
		21	21	23 23						
	Total % Reduction	8.:	1%	17.3	3%					
F	Office	21	.3%	9.1%						
ິ	Retail	0.0	0%	64.7%						
Ē	Restaurant	4.	9%	11.	6%					
D	Cinema/Entertainment									
0	Residential	17	.1%	32.4	4%					
	Hotel									
EXTERNAL TRIPS										
	Land Use	A.M. Pe	ak Hour	P.M. Pea	ak Hour					
F		Enter	Exit	Enter	Exit					
D	Office	55	4	7	53					
4	Retail	1	0	2	4					
5	Restaurant	198	191	66	63					
ō	Cinema/Entertainment	0	0	0	0					
-	Residential	9	20	16	9					
	Hotel	0	0	0	0					
		263	215	91	129					

U.S. Census Bureau



B08301

MEANS OF TRANSPORTATION TO WORK

Universe: Workers 16 years and over 2013-2017 American Community Survey 5-Year Estimates

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

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.

(226+580+289+15+56+37+11+226+255)/(865+3,235+2,663)=25.1%

	Census Tract 39. County,	09, Miami-Dade Florida	Census Tract 39. County,	13, Miami-Dade Florida	Census Tract 39.14, Miami- Dade County, Florida
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate
Total:	865	+/-197	3,235	+/-387	2,663
Car, truck, or van:	484	+/-121	1,927	+/-368	1,809
Drove alone	458	+/-123	1,744	+/-290	1,599
Carpooled:	26	+/-23	183	+/-154	210
In 2-person carpool	26	+/-23	104	+/-105	192
In 3-person carpool	0	+/-13	79	+/-109	18
In 4-person carpool	0	+/-13	0	+/-13	0
In 5- or 6-person carpool	0	+/-13	0	+/-13	0
In 7-or-more-person carpool	0	+/-13	0	+/-13	0
Public transportation (excluding taxicab):	226	+/-87	580	+/-214	289
Bus or trolley bus	226	+/-87	538	+/-212	289
Streetcar or trolley car (carro publico in Puerto Rico)	0	+/-13	0	+/-13	0
Subway or elevated	0	+/-13	42	+/-64	0
Railroad	0	+/-13	0	+/-13	0
Ferryboat	0	+/-13	0	+/-13	0
Taxicab	17	+/-17	46	+/-73	36
Motorcycle	0	+/-13	139	+/-138	21
Bicycle	15	+/-22	56	+/-68	37
Walked	11	+/-18	226	+/-175	255
Other means	28	+/-29	49	+/-47	27
Worked at home	84	+/-58	212	+/-118	189

	Census Tract 39.14, Miami- Dade County, Florida
	Margin of Error
Total:	+/-426
Car, truck, or van:	+/-375
Drove alone	+/-367
Carpooled:	+/-125
In 2-person carpool	+/-122
In 3-person carpool	+/-29
In 4-person carpool	+/-13
In 5- or 6-person carpool	+/-13
In 7-or-more-person carpool	+/-13
Public transportation (excluding taxicab):	+/-227
Bus or trolley bus	+/-227
Streetcar or trolley car (carro publico in Puerto Rico)	+/-13
Subway or elevated	+/-13
Railroad	+/-13
Ferryboat	+/-13
Taxicab	+/-68
Motorcycle	+/-34
Bicycle	+/-61
Walked	+/-158
Other means	+/-32
Worked at home	+/-122

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

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

While the 2013-2017 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural 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.

Source: U.S. Census Bureau, 2013-2017 American Community Survey 5-Year Estimates

Explanation of Symbols:

1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.

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

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

5. An '***' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

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.

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

Prepared by National Data & Surveying Services **Vehicle Classification**

Location: The Axis at Brickell- 1111 SW 12th Ave City: Miami

Day: Tuesday Date: 7/31/2018

			COCHERE		PARKING	GARAGE							
			DROP OF	F/PICK UP			ENTRAN	ICE/EXIT					
Time				Ride Share	(Uber/Lyft)								
	Valet	Тахі	Stic	cker	No S	ticker	Valet	Self Parking					
			Driveway	Street	Driveway	Street							
7:30 AM	2	0	0	1	0	1	2	30					
7:45 AM	0	0	1	1	0	0	0	26					
8:00 AM	2	0	1	1	0	0	2	19					
8:15 AM	2	0	0	0	2	1	2	19					
8:30 AM	1	0	1	0	2	1	1	15					
8:45 AM	1	0	1	0	0	0	1	30					
9:00 AM	1	0	1	1	0	0	1	25					
9:15 AM	3	0	0	0	0	1	3	35					
	12	0	5	4	4	4	12	199					
A M. Reak Period Total						A.M. Peak Pe	eriod Rideshare %	7.5%					
A.M. Feak Feriou Total	A.M. Peak Period Self-Park %												
						A.M. Pe	ak Period Valet %	5.2%					
4:00 PM	4	0	0	0	0	1	4	28					
4:15 PM	2	0	1	2	1	0	2	17					
4:30 PM	1	0	2	0	0	0	1	13					
4:45 PM	3	0	2	0	0	0	3	18					
5:00 PM	0	0	1	1	0	0	0	24					
5:15 PM	3	0	0	0	0	0	3	18					
5:30 PM	3	0	0	0	0	0	3	24					
5:45 PM	3	0	0	0	0	0	3	19					
	19	0	6	3	1	1	19	161					
P.M. Peak Period Total	P.M. Peak Period Rideshare												
P.M. Peak Period Total	P.M. Peak Period Self-Park												
		ak Period Valet %	10.0%										

Attachment C

Valet Processing Time

Valet Drop-off/Pick-Up Calculated Travel Time

VALET DROP-OFF								
VEHICLE TRAVEL TIME			VALET ATTENDANT TRAVEL TIME					
Travel Times (Assume 15 mph speed)		eed)	Travel Times (Assume	5 ft/s speed)				
To Valet Garage (In vehicle) Distance Travel Time			Return from Valet Garage (Walk/Run) to Valet Area Distance Travel Time					
0.31 miles		1.2 minutes	0.04 miles	0.8 minutes				
Controlled Delay Total Time	0.5 Minutes 2.5 Minutes							

Parking Garage Calculated Travel Time

Parking Garage Calculated Travel Time

VALET PICK-UP								
VALET ATTENDANT TRAVEL TIME			VEHICLE TRAVEL TIME					
Travel Times (Assur	ne <mark>5</mark> ft/s speed)		Travel Times (Assume	15 mph speed)				
To Valet Gara	To Valet Garage (Walk/Run)			Return from Valet Garage (In Vehicle) to Valet Area				
Distance	Travel	Гime	Distance	Travel Time				
0.03 miles 0.5		0.5 minutes	0.31 miles	1.2 minutes				
Controlled Delay	0.5 Minutes							
Total Time	2.2 Minutes							

K:\FTL_TPTO\142026002-6985 Abbott Avenue\Calcs\Valet\Valet Trip - Travel Time.xls

Attachment D

Valet Analysis

Valet Drop-off Operations



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Valet Pick-up Operations



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