



July 29, 2024

Grant Webster
City of Miami Beach Transportation & Mobility Department
1700 Convention Center Drive
Miami Beach, FL 33139

**Re: Deauville - 6701 Collins Avenue (PB24-0693 & TRN24-0014)
Code Amendment Trip Generation Statement**

Dear Mr. Webster:

Kimley-Horn and Associates, Inc. has prepared a trip generation statement for the proposed Code Amendment related to the application located at 6701 Collins Avenue in Miami Beach, Florida. Based on the currently permitted floor area, the maximum site development potential would include 977 hotel rooms, including accessory uses. However, as part of the proposed Code Amendment, the maximum site development potential would include 280 hotel rooms and 140 multifamily residential units, including accessory uses. A conceptual site plan and location map are provided in Attachment A.

TRIP GENERATION

Trip generation calculations for the existing and proposed maximum development potentials were performed using Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 11th Edition. Trip generation calculations were prepared for the weekday A.M. and P.M. peak hours.

The trip generation for the existing maximum development potential was determined using ITE Land Use Code (LUC) 310 (Hotel). The trip generation for the proposed maximum development potential was determined using ITE LUC 310 (Hotel) and LUC 222 (Multifamily Housing [High-Rise]).

Multimodal Reduction

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 which the site is located. A multimodal factor of 17.4 percent (17.4%) was determined and applied to the external trip generation calculations. It is expected that a portion of residents, guests, patrons, and employees will choose to walk, bike, or use public transit to and from the site.

Transit Route Information

Two (2) Miami Beach Trolley routes and three (3) Miami-Dade County Department of Transportation Public Works (DTPW) routes currently operate in close proximity (within ½ mile) to the site during the weekday A.M. and P.M. peak hours. Detailed transit route information is included in Attachment B.

- **Miami Beach Trolley Collins Express Route** operates along Collins Avenue in the vicinity of the project site with the nearest stop located south of 67th Street. This route operates with approximately 20-minute headways in the northbound and southbound directions during the weekday A.M. and P.M. peak hours.
- **Miami Beach Trolley North Beach Route** operates along Collins Avenue in the vicinity of the project site with the nearest stop located south of 67th Street. This route operates with approximately 20-minute headways in the northbound and southbound directions during the weekday A.M. and P.M. peak hours.

- **MDT Route 79** operates along Collins Avenue in the vicinity of the project site with the nearest stop located south of 67th Street. This route operates with approximately 15-minute headways in the northbound and southbound directions during the weekday A.M and P.M. peak hours.
- **MDT Route 100** operates along Collins Avenue in the vicinity of the project site with the nearest stop located south of 67th Street. This route operates with approximately 7.5-minute headways in the northbound and southbound directions during the weekday A.M and P.M. peak hours.
- **MDT Route 279** operates along 71st Street in the vicinity of the project site with the nearest stop located east of Indian Creek Drive. This route operates with approximately 24-minute headways in the eastbound and westbound directions during the weekday A.M and P.M. peak hours.

Internal Capture

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. Internal capture rate of 1.0 percent (1.0%) for the P.M. peak hour trip generation is expected for the proposed Code Amendment.

Net New Project Trips

As shown in Table 1, the proposed Code Amendment is expected to result in a reduction of 246 net new vehicle trips during the weekday A.M. peak hour and a reduction of 379 net new vehicle trips during the weekday P.M. peak hour. Trip generation calculations are included as Attachment C.

Table 1: Proposed Net New Trip Generation				
A.M. Peak Hour (P.M. Peak Hour)				
Future Land Use (ITE Code)	Scale	Entering Trips	Exiting Trips	New External Trips
<i>Existing Code Amendment</i>				
Hotel (310)	977 rooms	222 (292)	175 (282)	397 (574)
<i>Proposed Code Amendment</i>				
Hotel (310)	280 rooms	61 (74)	49 (73)	110 (147)
Multifamily Housing (High-Rise) (222)	140 dwelling units	11 (30)	30 (18)	41 (48)
<i>Subtotal:</i>		72 (104)	79 (91)	151 (195)
Net New Project Trips		-150 (-188)	-96 (-191)	-246 (-379)

PARKING EVALUATION

As part of the forthcoming land use board application, the required and provided number of parking spaces will be provided based on the proposed development program. Note that the parking requirement associated with the reconstruction of the original Deauville Hotel will be exempt, however, the project will comply with the applicable parking requirements for all new construction.

CONCLUSION

As the proposed Code Amendment is expected to result in a reduction of 246 net new vehicle trips during the weekday A.M. peak hour and a reduction of 379 net new vehicle trips during the weekday P.M. peak hour, further analysis is not proposed. Please note that a site plan traffic study methodology and traffic impact analysis will be prepared as part of the forthcoming land use board application.

Should you have any questions or require additional information, please do not hesitate to contact our office.

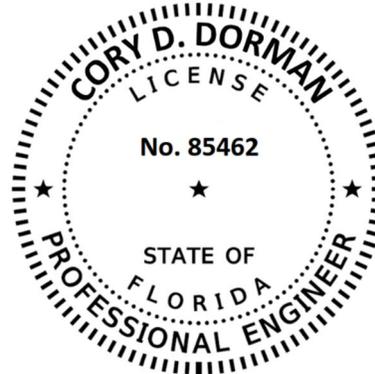
Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



Cory D. Dorman, P.E., PTOE

Attachments



This item has been digitally signed and sealed by Cory D. Dorman, P.E., PTOE on the date adjacent to the seal.

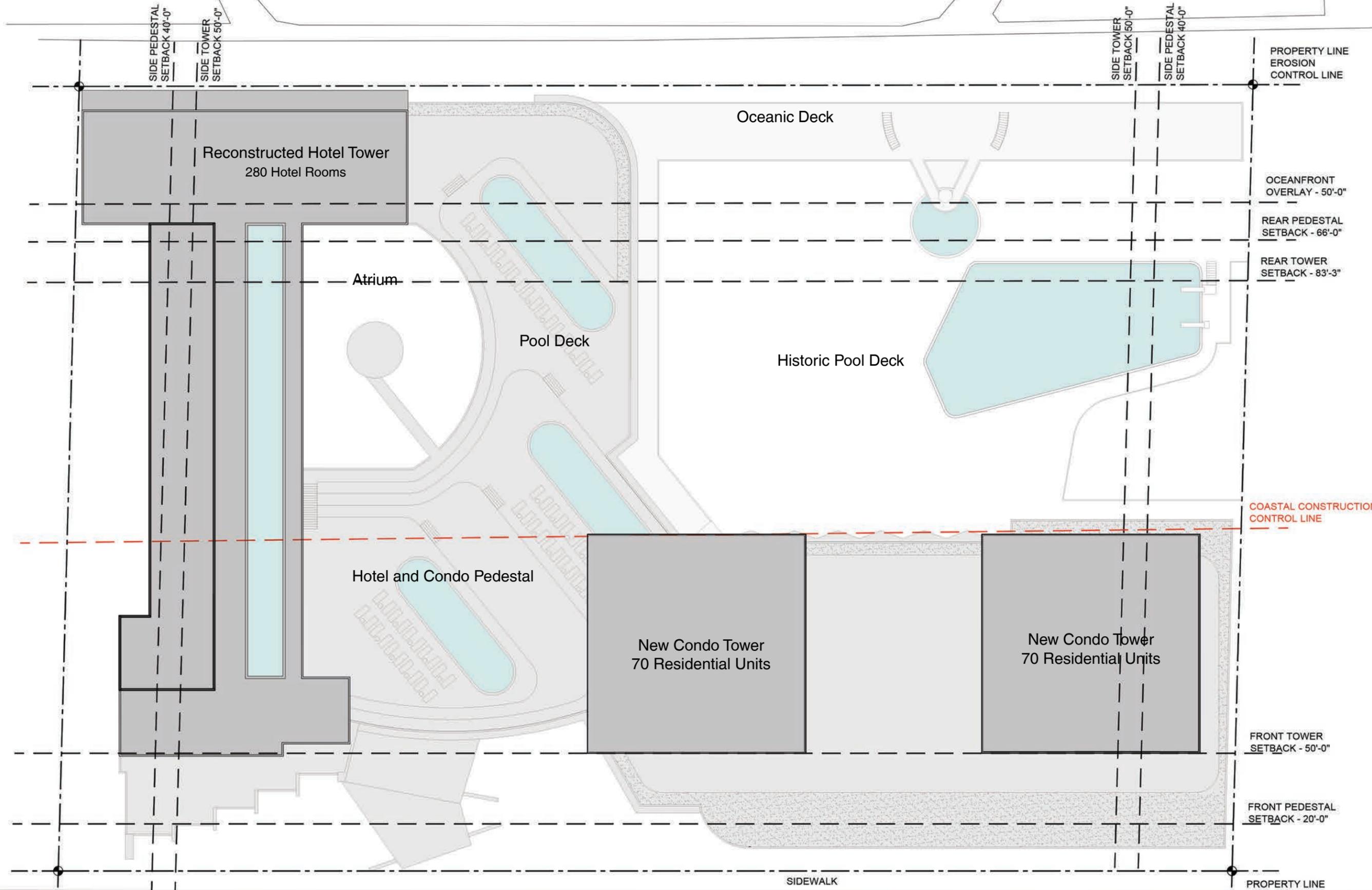
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Cory D. Dorman, P.E., PTOE
Florida Registration Number 85462
Kimley-Horn and Associates, Inc.
2 Alhambra Plaza, Suite 500
Coral Gables, FL 33134

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Attachment A

Conceptual Site Plan and Location Map



Reconstructed Hotel Tower
280 Hotel Rooms

Oceanic Deck

Atrium

Pool Deck

Historic Pool Deck

Hotel and Condo Pedestal

New Condo Tower
70 Residential Units

New Condo Tower
70 Residential Units

CONCEPTUAL SITE PLAN



Figure 1
Location Map
Deauville
Miami Beach, Florida

Attachment B

Transit Service Data

City of Miami Beach Trolley Routes



COLLINS EXPRESS



TROLLEY CONNECTIONS

NORTH BEACH LOOP  **COLLINS EXPRESS**

COLLINS EXPRESS  **MIDDLE BEACH LOOP**

MIDDLE BEACH LOOP  **SOUTH BEACH LOOP**

COLLINS EXPRESS  **SOUTH BEACH LOOP**





NORTH BEACH LOOP

TROLLEY CONNECTION



DTPW Routes and Headways

SERVICE FREQUENCIES

FRECUENCIAS DE SERVICIO / FREKANS SÈVIS YO

	FROM DESDE / DE	TO HASTA / A	EVERY CADA / CHAK
WEEKDAY DIAS LABORABLES LASEMÈN	12:00 a.m.	4:00 a.m.	60 min (Northside-M Beach)
	4:00 a.m.	6:00 a.m.	30 min (Hialeah-M Beach)
	6:00 a.m.	10:00 p.m.	15 min (Hialeah-M Beach)
	10:00 p.m.	12:00a.m.	30 min (Hialeah-M Beach)
SATURDAY SÁBADO SAMDI	12:00 a.m.	5:00 a.m.	60 min (Northside-M Beach)
	5:00 a.m.	7:00 a.m.	30 min (Hialeah-M Beach)
	7:00 a.m.	10:00 p.m.	15 min (Hialeah-M Beach)
	10:00 p.m.	12:00 a.m.	30 min (Hialeah-M Beach)
SUNDAY DOMINGO DIMANÇH	12:00 a.m.	5:00 a.m.	60 min (Northside-M Beach)
	5:00 a.m.	8:00 a.m.	30 min (Hialeah-M Beach)
	8:00 a.m.	8:00 p.m.	20 min (Hialeah-M Beach)
	8:00 p.m.	12:00 a.m.	60 min (Hialeah-M Beach)

Frequencies are approximate and may vary depending on traffic and road conditions. Las frecuencias son aproximadas, pues dependen del tráfico y otras condiciones de las vías. Asosye yo apwaksimatif epi yo ka varye selon kondisyon siklasyon sou wout yo.

Language Assistance: Miami-Dade Transit (MDT) is committed to providing information about its transit services to passengers with limited English as part of its non-discrimination program. MDT publishes route information in Spanish and Haitian Creole and offers assistance in both languages at our Call Center at 3-1-1 or 305- 468-5900. For more information, call MDT's Office of Civil Rights & Labor Relations at 786-469-5486.

Miami-Dade County provides equal access and equal opportunity in employment and does not discriminate on the basis of disability in its programs or services. Auxiliary aids and services for communication are available with five days' advance notice. For material in alternate format (audiotape, Braille or computer disk), a signlanguage interpreter or other accommodations, please contact: Miami-Dade Transit, Office of Civil Rights and Labor Relations, 701 NW 1st Court, Suite 1700, Miami, FL 33136. Attention: ADA Coordinator. Telephone: 786-469-5225, Fax: 786-469-5589. E-mail: DTPW-ADA@miamidade.gov.

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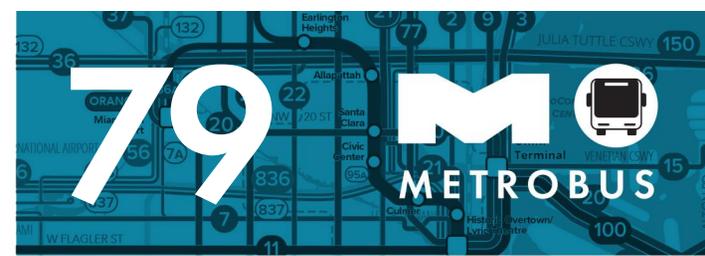
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APRIL 2024 | ABRIL 2024 | AVRIL 2024

- Local service seven days a week.
- Travels from Hialeah Metrorail Station to South Beach along NW/NE 79 St, the 79th Street Causeway and Collins Ave
- Overnight trips travel from Northside Metrorail Station



- Servicio local los siete días de la semana.
- Va desde la estación de Hialeah del Metrorail hasta South Beach, pasando por NW/NE 79 St, 79th Street Causeway y Collins Ave.
- En el horario nocturno el recorrido comienza en la estación Northside del Metrorail.

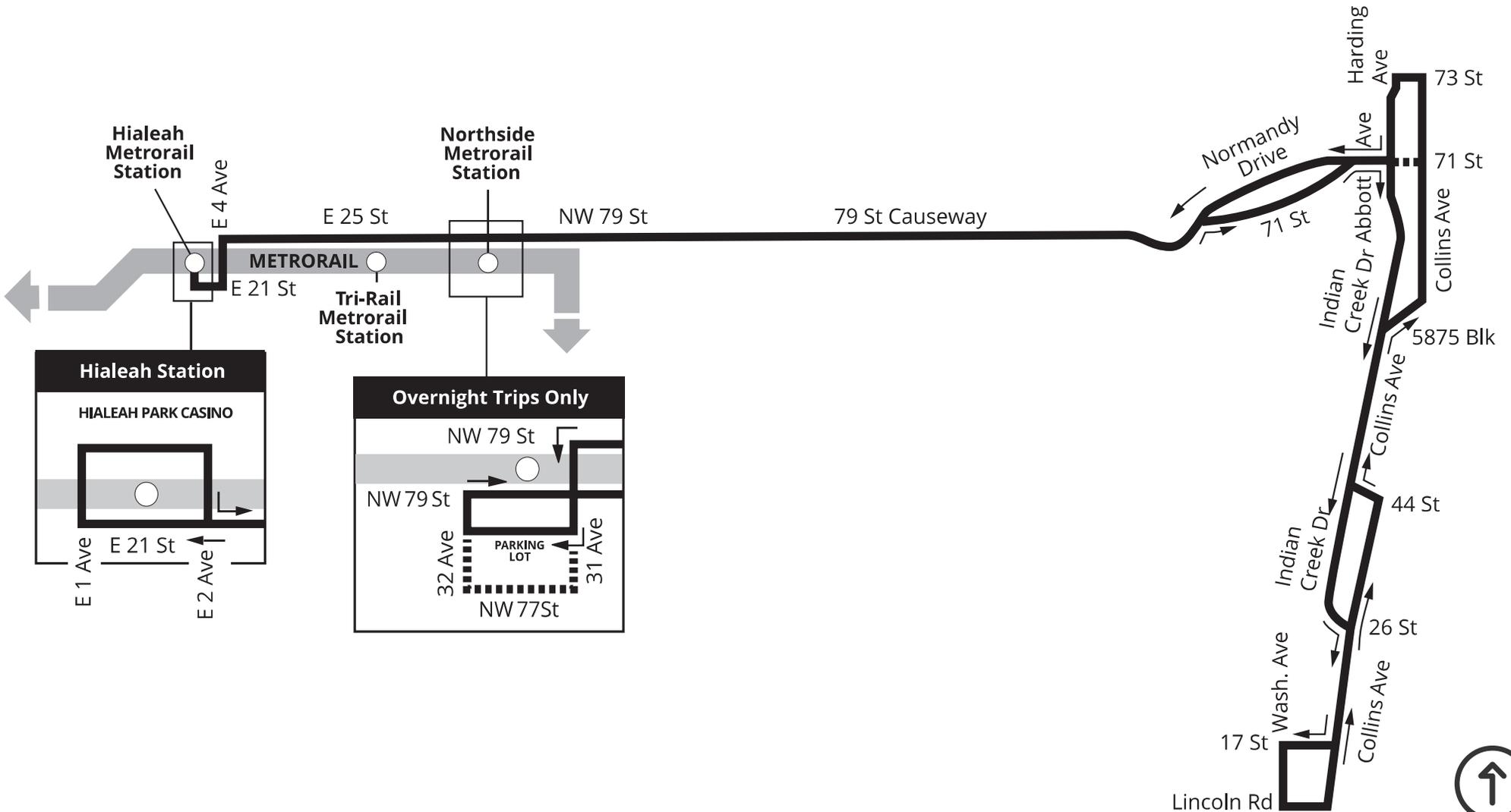
- Sèvis lokal sèt jou sou sèt.
- Vwayaje soti nan estasyon Hialeah Metrorail pou rive nan South Beach sou NW/NE 79 St, 79th Street Causeway ak Collins Ave.
- Vwayaj lannwit yo fèt soti nan estasyon Northside Metrorail.



MORE INFORMATION
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79



NORTH
11/2023

SERVICE FREQUENCIES

FRECUENCIAS DE SERVICIO / FREKANS SÈVIS YO

	FROM DESDE / DE	TO HASTA / A	EVERY CADA / CHAK
WEEKDAY DIAS LABORABLES LASEMÈN	12:00 a.m.	4:00 a.m.	60 min (Aventura-Downtown)
	4:00 a.m.	6:00 a.m.	20 min (Haulover-Downtown) 40 min (Aventura-Haulover)
	6:00 a.m.	10:00 p.m.	7.5 min (Haulover-Downtown) 10 min (Aventura-Haulover)
	10:00 p.m.	12:00 a.m.	15 min (Aventura-Downtown)
SATURDAY SÁBADO SAMDI	12:00 a.m.	5:00 a.m.	60 min (Aventura-Downtown)
	5:00 a.m.	7:00 a.m.	15 min (Haulover-Downtown) 30 min (Aventura-Haulover)
	7:00 a.m.	10:00 p.m.	7.5 min (Haulover-Downtown) 15 min (Aventura-Haulover)
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	5:00 a.m.	6:00 a.m.	30 min (Haulover-Downtown) 60 min (Aventura-Haulover)
	6:00 a.m.	8:00 a.m.	15 min (Haulover-Downtown) 30 min (Aventura-Haulover)
	8:00 a.m.	8:00 p.m.	10 min (Haulover-Downtown) 30 min (Aventura-Haulover)
	8:00 p.m.	12:00 a.m.	30 min (Haulover-Downtown) 60 min (Aventura-Haulover)

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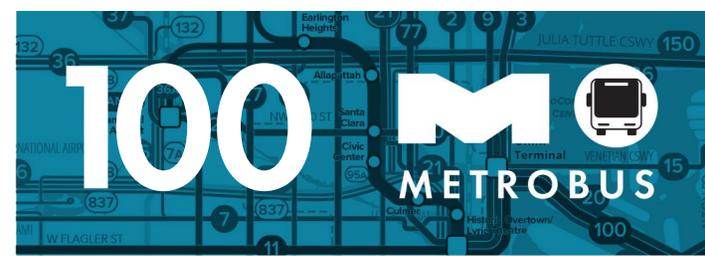
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APRIL 2024 | ABRIL 2024 | AVRIL 2024

- Local service seven days a week.
- Travels from the Bus Terminal at Aventura Mall to Downtown Miami through Miami Beach.
- Stops include the Adrienne Arsht Center Metromover station / Omni Metrobus terminal, and Government Center Metrorail / Metromover station.



- Servicio local los siete días de la semana.
- Va desde la terminal de autobuses en Aventura Mall hasta el downtown de Miami, pasando por Miami Beach.
- Con paradas en la estación Adrienne Arsht Center del Metromover/terminal Omni del Metrobús y la estación Government Center del Metrorail y el Metromover.



- Sèvis lokal sèt jou pou sèt.
- Vwayaje soti nan Tèminal Otobis la nan Aventura Mall pou rive nan Downtown Miami travè Miami Beach.
- Arè yo gen ladan estasyon Adrienne Arsht Center Metromover / Omni Metrobus tèminal, ak estasyon Metrorail / Metromover Government Center.



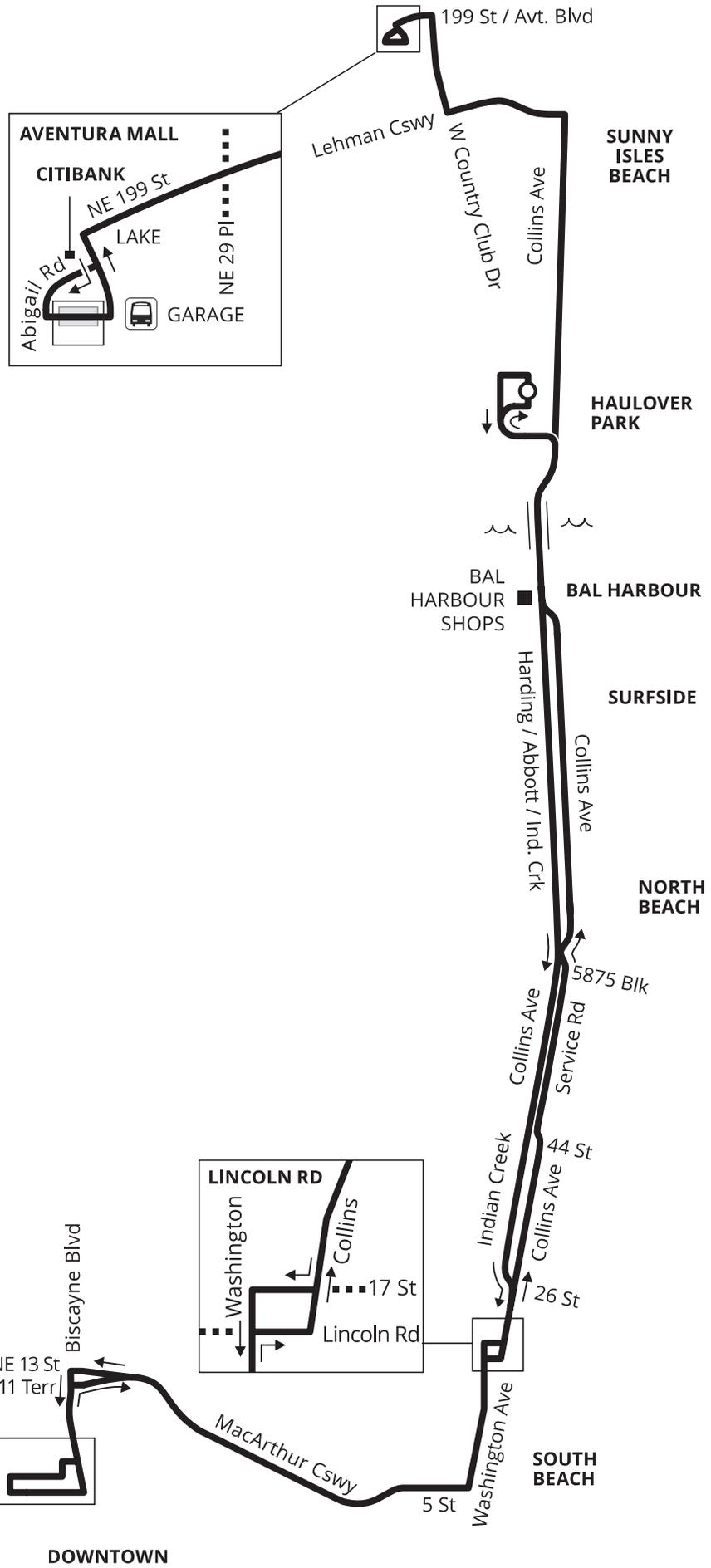
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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS



100



SERVICE FREQUENCIES

FRECUENCIAS DE SERVICIO / FREKANS SÈVIS YO

	FROM DESDE / DE	TO HASTA / A	EVERY CADA / CHAK
WEEKDAY DIAS LABORABLES LASEMÈN	5:45 a.m.	8:15 a.m.	24 min
	4:00 p.m.	6:00 p.m.	24 min

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MARCH 2024 | MARZO 2024 | MAS 2024

79 STREET MAX



- Limited-stop weekday morning and afternoon service.
- Travels from Northside Metrorail station to 73 St & Collins Ave on Miami Beach along NW/NE 79 St and the 79th Street Causeway.
- Servicio con paradas limitadas en las mañanas y las tardes de los días laborables.
- Va desde la estación Northside del Metrorail hasta 73 St y Collins Ave en Miami Beach, pasando por NW/NE 79 St y 79th Street Causeway.
- Sèvis arè limite nan maten ak apre midi nan lasemèn.
- Vwayaje soti nan estasyon Northside Metrorail pou rive nan 73 St & Collins Ave sou Miami Beach sou NW/NE 79 St ak 79th Street Causeway.



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DRIVE LESS. LIVE MORE.™

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

MIA MIAMI-DADE COUNTY



279

79 STREET MAX



NORTH
11/2023



Metrorail Station



LIMITED STOPS
entire route

Attachment C

Trip Generation Calculations

AM PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY AM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		BASELINE TRIPS			MULTIMODAL REDUCTION		GROSS TRIPS			INTERNAL CAPTURE		EXTERNAL VEHICLE TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS					
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Percent		In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total			
						In	Out																					
GROUP 1	1	Hotel	11	310	977	room	56%	44%	269	212	481	17.4%	84	222	175	397	0.0%	0	222	175	397	0.0%	0	222	175	397		
	2																											
	3																											
	4																											
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		ITE Land Use Code	Rate or Equation		Total:			269	212	481	17.4%	84	222	175	397	0.0%	0	222	175	397	0.0%	0	222	175	397			
		310	Y=0.5*(X)+7.45																									

PROPOSED WEEKDAY AM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		BASELINE TRIPS			MULTIMODAL REDUCTION		GROSS TRIPS			INTERNAL CAPTURE		EXTERNAL VEHICLE TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS						
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Percent		In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total				
						In	Out																						
GROUP 2	1	Hotel	11	310	280	room	56%	44%	74	59	133	17.4%	23	61	49	110	0.0%	0	61	49	110	0.0%	0	61	49	110			
	2	Multifamily Housing (High-Rise)	11	222	140	du	26%	74%	13	37	50	17.4%	9	11	30	41	0.0%	0	11	30	41	0.0%	0	11	30	41			
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	15																												
		ITE Land Use Code	Rate or Equation		Total:			87	96	183	17.4%	32	72	79	151	0.0%	0	72	79	151	0.0%	0	72	79	151				
		310	Y=0.5*(X)+7.45																										
		222	Y=0.22*(X)+18.85																										

	IN	OUT	TOTAL
NET NEW TRIPS	-150	-96	-246

PM PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		BASELINE TRIPS			MULTIMODAL REDUCTION		GROSS TRIPS			INTERNAL CAPTURE		EXTERNAL VEHICLE TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS					
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Percent		In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total			
						In	Out																					
GROUP 1	1	Hotel	11	310	977	room	51%	49%	354	341	695	17.4%	121	292	282	574	0.0%	0	292	282	574	0.0%	0	292	282	574		
	2																											
	3																											
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	13																											
	14																											
	15																											
		ITE Land Use Code	Rate or Equation		Total:			354	341	695	17.4%	121	292	282	574	0.0%	0	292	282	574	0.0%	0	292	282	574			
		310	Y=0.74*(X)+-27.89																									

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

	ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		BASELINE TRIPS			MULTIMODAL REDUCTION		GROSS TRIPS			INTERNAL CAPTURE		EXTERNAL VEHICLE TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS						
	Land Use	ITE Edition	ITE Code	Scale	ITE Units	Percent		In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total				
						In	Out																						
GROUP 2	1	Hotel	11	310	280	room	51%	49%	91	88	179	17.4%	31	75	73	148	0.7%	1	74	73	147	0.0%	0	74	73	147			
	2	Multifamily Housing (High-Rise)	11	222	140	du	62%	38%	37	23	60	17.4%	11	30	19	49	2.0%	1	30	18	48	0.0%	0	30	18	48			
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		ITE Land Use Code	Rate or Equation		Total:			128	111	239	17.4%	42	105	92	197	1.0%	2	104	91	195	0.0%	0	104	91	195				
		310	Y=0.74*(X)+-27.89																										
		222	Y=0.26*(X)+23.12																										

	IN	OUT	TOTAL
NET NEW TRIPS	-188	-191	-379

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					
INPUT	Land Use	A.M. Peak Hour		P.M. Peak Hour	
		Enter	Exit	Enter	Exit
	Office	0	0	0	0
	Retail	0	0	0	0
	Restaurant	0	0	0	0
	Cinema/Entertainment	0	0	0	0
	Residential	11	30	30	19
	Hotel	61	49	75	73
		72	79	105	92

INTERNAL TRIPS					
OUTPUT	Land Use	A.M. Peak Hour		P.M. Peak Hour	
		Enter	Exit	Enter	Exit
	Office	0	0	0	0
	Retail	0	0	0	0
	Restaurant	0	0	0	0
	Cinema/Entertainment	0	0	0	0
	Residential	0	0	0	1
	Hotel	0	0	1	0
		0	0	1	1

OUTPUT	<i>Total % Reduction</i>	<i>0.0%</i>	<i>1.0%</i>
		Office	
	Retail		
	Restaurant		
	Cinema/Entertainment		
	Residential	0.0%	2.0%
	Hotel	0.0%	0.7%

EXTERNAL TRIPS					
OUTPUT	Land Use	A.M. Peak Hour		P.M. Peak Hour	
		Enter	Exit	Enter	Exit
	Office	0	0	0	0
	Retail	0	0	0	0
	Restaurant	0	0	0	0
	Cinema/Entertainment	0	0	0	0
	Residential	11	30	30	18
	Hotel	61	49	74	73
		72	79	104	91



MEANS OF TRANS (249+98+79+16+203+18)/(2,436+1,991-209-411) = 17.4%

Note: This is a modified view of the original table produced by the U.S. Census Bureau. This download or printed version may have missing information from the original table.

Label	Census Tract 39.14, Miami-Dade County, Florida		Census Tract 39.21, Miami-Dade County, Florida	
	Estimate	Margin of Error	Estimate	Margin of Error
▼ Total:	2,436	±516	1,991	±310
▼ Car, truck, or van:	1,490	±383	1,407	±270
Drove alone	1,364	±366	1,211	±275
▼ Carpooled:	126	±100	196	±117
In 2-person carpool	126	±100	196	±117
In 3-person carpool	0	±14	0	±14
In 4-person carpool	0	±14	0	±14
In 5- or 6-person carpool	0	±14	0	±14
In 7-or-more-person carpool	0	±14	0	±14
▼ Public transportation (excluding taxicab):	249	±185	98	±60
Bus	249	±185	67	±66
Subway or elevated rail	0	±14	31	±46
Long-distance train or commuter rail	0	±14	0	±14
Light rail, streetcar or trolley (carro público in Puerto Rico)	0	±14	0	±14
Ferryboat	0	±14	0	±14
Taxicab	98	±121	25	±25
Motorcycle	43	±69	0	±14
Bicycle	79	±79	16	±20
Walked	203	±134	18	±20
Other means	65	±71	16	±18
Worked from home	209	±123	411	±162