TRAFFIC IMPACT ANALYSIS

DELRAY TOWNHOMESDELRAY, FL

PREPARED FOR:

Ocean Ridge Rentals, LLC

Kimley » Horn

October 3, 2023 Kimley-Horn Project #140726000 CA 00000696 477 S Rosemary Avenue, Suite 215 West Palm Beach, Florida 33401 561/845-0665 TEL

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Prepared by: Kimley-Horn and Associates, Inc. West Palm Beach, Florida



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Adam Kerr, P.E.



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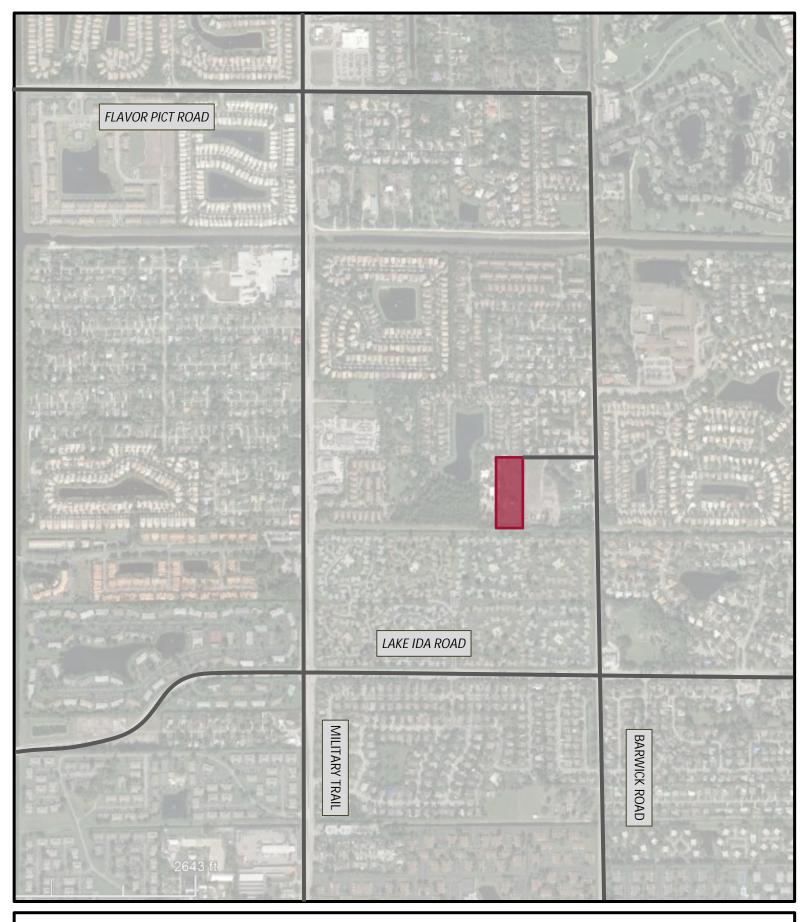


INTRODUCTION

The Delray Townhomes project site is located just west of Barwick Road, on the south side of 133rd Road South, in Delray Beach, Florida. *Figure 1* illustrates the location of the project site. The existing site consists of a one single family residential dwelling unit. The proposed plan of development includes demolition of the existing structures, and the construction of 25 multifamily dwelling units. The Parcel Control Number (PCN) for the project site is 12-42-46-12-00-000-3200.

Kimley-Horn and Associates, Inc. was retained to prepare a traffic impact analysis to evaluate the impacts resulting from buildout of above-mentioned site by 2028. This document presents the methodology used and the findings of the traffic impact analysis. The analysis was conducted in accordance with the requirements set forth by Palm Beach County, Florida.

The site plan, Parcel Control Number, and study methodology information can be found in *Appendix A*.







LEGEND

SITE LOCATION
TRAFFICWAYS EVALUATED

FIGURE 1
DELRAY TOWNHOMES
140726000
SITE LOCATION





PROJECT TRAFFIC

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

Existing and Proposed Land Uses

The existing site currently contains one single family detached residence. The proposed site will include 25 multifamily dwelling units.

Trip Generation

The trip generation potential of the development was calculated based upon the trip generation rates and equations provided Palm Beach County Trip Generation Rates. These rates are based on the rates for similar land uses within the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th Edition.* The trip generation potential for the existing and future land uses were calculated using rates and equations published for Single-Family Detached Housing (Land Use 210) and Multifamily Housing Low-Rise (Land Use 220). Internal capture was not used because it does not correlate with the respective land uses.

Since the existing site is currently operating, credit was taken for trips currently being generated by the site. As indicated in Table 1, the net new trip generation potential of the proposed site is 159 net external daily trips, 9 net new external AM peak hour trips (+2 inbound, +7 outbound) and 12 net new external PM peak hour trips (+7 inbound, +5 out). Based on the net new trip generation of the proposed site, the radius of the development influence for the site is the directly accessed links.

Table 1: Trip Generation

Land Use	Intensity	Daily	Daily AM Pea				PM Peak Hour			
Land Ose	intensity	Trips	Total	ln	Out	Total	In	Out		
	Existing Scenario									
Single Family Detached	1 D	U 10	1	0	1	1	1	0		
Net New Externa	l Trips	10	1	0	1	1	1	0		
Proposed Development										
Multifamily Low-Rise	25 D	U 169	10	2	8	13	8	5		
Net New Externa	Trips	169	10	2	8	13	8	5		
Proposed Net External Trips-Ex Trips	nal 159	9	2	7	12	7	5			
Radius of Developmen	t Influence:			Dir	ectly Accesse	ed Links				
<u>Land Use</u>	<u>Daily</u>	<u>/</u>	AM Peak Hour			PM Peak Hour				
Single Family Detached	10 trips/DU	0.7 tri	ps/DU (26% in, 7	4% out)	0.94 trip	s/DU (63% in, 3	7% out)	0.0%		
Multifamily Low-Rise 6.74 trips/DU			0.4 trips/DU (24% in, 76% out) 0.51 trips/DU (63% in, 37% out)				7% out)	0.0%		



Traffic Distribution

Traffic distribution is the pairing of trip ends from the subject site with other land uses in the area. These trips were assigned to the surrounding roadways based upon a review of the roadway network proposed to be in place at the time of buildout and its travel time characteristics. The distribution according to cardinal directions from the site to the surrounding links is:

NORTH - 30 percent SOUTH - 70 percent

Traffic Assignment

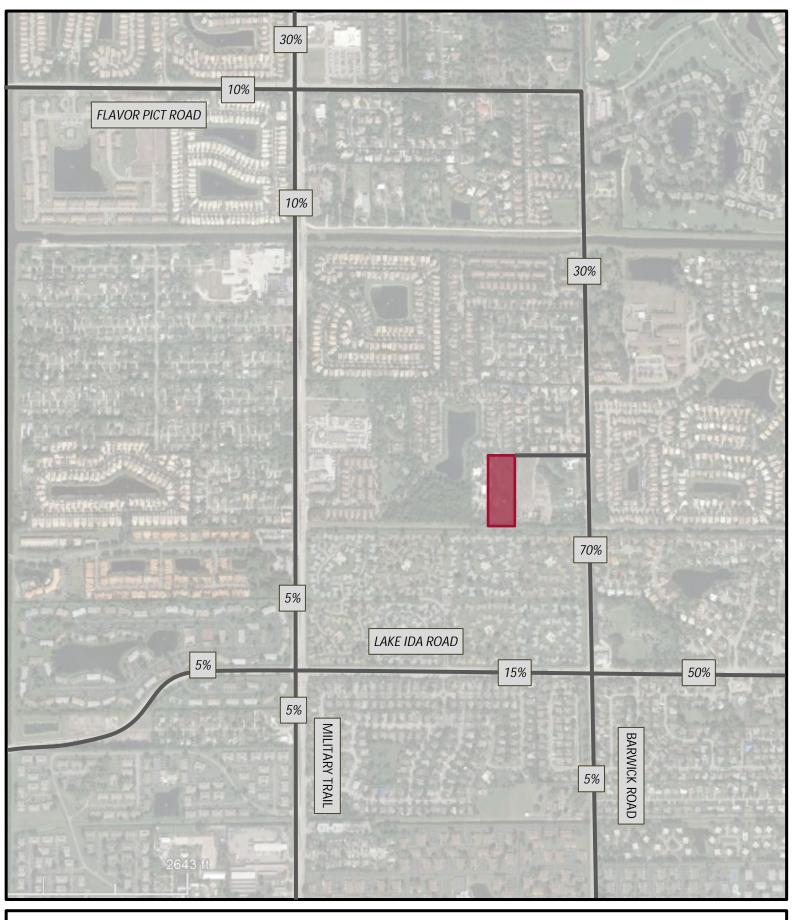
The site traffic was assigned to the surrounding roadway network based upon existing travel patterns. Figure 2 shows the project distribution of the surrounding roadways; this distribution is based on the Palm Beach County TPS database distribution for the project.

Time of Day-Distribution

As the site is near a school, an analysis of the potential traffic caused by the proposed development during the school's dismissal time was done. Table 2 shows the anticipated trips during the school's dismissal period.

Table 2: Time-of-day Vehicular Trips

Time of Day Distribution (1pm-3pm)										
Land Use	Time of Day	Distribution	Daily Trips	Vehicle Trips						
Multifamily Low-Rise	1:00pm-2:00pm 4.20		140	7						
	2:00pm-3:00pm	5.20%	169	9						







LEGEND

SITE LOCATION
TRAFFICWAYS EVALUATED

FIGURE 2
DELRAY TOWNHOMES
140726000
TRIP DISTRIBUTION





TEST 1 SIGNIFICANCE ANALYSIS

A peak-hour peak-directional (PHPD) analysis was undertaken on all of the links included in the Palm Beach County Thoroughfare Map within the directly accessed to determine significantly impacted links. Net new external project traffic was assigned to all the thoroughfare roadway links within the radius of development influence. Per Palm Beach County standards, any links on which the project traffic impact is greater than 1% of the level of service (LOS) D generalized service volume are significantly impacted.

As shown in Table 3 and Table 4 the project traffic does not significantly impact the surrounding links. Therefore, no further analysis is required.



Table 3: Test 1 Part 1 AM Significance Analysis

		COMMITTED	LOS D	PROJECT TRIPS								
			NUMBER	GEN. SVC.	EN. SVC. PROJECT % NB/EB			AM PEAK HOUR				
	OF	ASSIGNMENT		IN/OUT?	TRIPS		% IMPACT					
ROADWAY	FROM TO LANES VOLUME	ASSIGNIVILIVI	1147 001:	NB/EB	SB/WB	NB/EB	Sig?	SB/WB	Sig?			
								_				
Barwick Road	Lake Ida Road	133rd Road South	2L	810	70%	i	1	5	0.12%	No	0.62%	No
Barwick Road	133rd Road South	Coconut Lane	2L	810	30%	0	2	1	0.25%	No	0.12%	No

Table 4: Test 1 Part 1 PM Significance Analysis

		COMMITTED	LOS D	PROJECT TRIPS									
			NUMBER	JMBER GEN. SVC. PROJECT % NB/E		IECT % NB/EB PM PEAK HOUR							
		\cap F	IN/OUT?	TR	IPS	% IMPACT							
ROADWAY	FROM	TO	LANES	VOLUME	ASSIGNIVIENT	1147 001:	NB/EB	SB/WB	NB/EB	Sig?	SB/WB	Sig?	
Barwick Road	Lake Ida Road	133rd Road South	2L	810	70%	i	5	4	0.62%	No	0.49%	No	
Barwick Road	133rd Road South	Coconut Lane	2L	810	30%	0	2	2	0.25%	No	0.25%	No	



DRIVEWAY ANALYSIS

Access to the site is proposed via one full-access driveway on 133rd Road South. *Figure 3* illustrates the future total driveway volumes for the site.

Palm Beach County Thresholds

Section 300 of the Palm Beach County "Design Standards Manual" provides the vehicle thresholds for exclusive turn lanes at site driveways. According to the standards noted in this document, the volume thresholds for providing exclusive turn lanes are as follows:

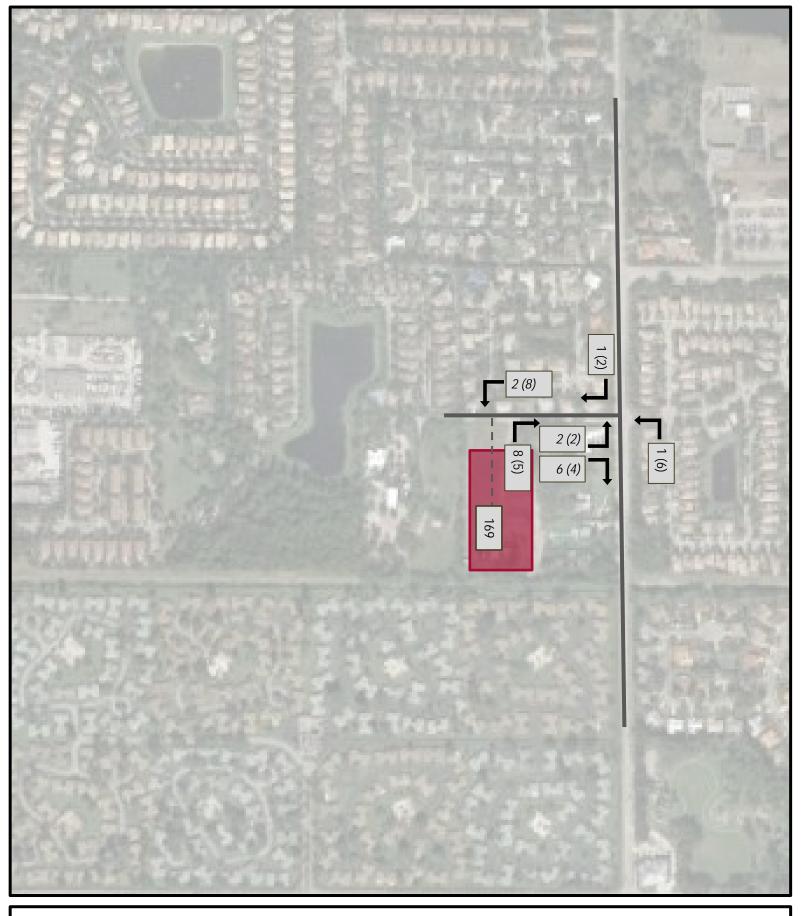
- Right-turn Lane 75 peak hour right turns, with driveway volumes that exceed 1,000 trips per day, and average daily traffic volumes that exceed 10,000 vehicles per day.
- Left-turn Lane 30 peak hour left turns.

As shown in Figure 3, none of the inbound movements exceed these turn lane thresholds.

The Palm Beach County Code provides for classification of driveways as minor, intermediate, or major and the determination of ingress turn lane requirements. The following criteria are used to classify driveways located within Palm Beach County:

- 1. Minor Provides service for a maximum daily volume of 500 vehicles.
- 2. Intermediate Provides service for a maximum daily volume from 500 to 2,000 vehicles.
- 3. Major Provides service for a daily volume over 2,000 vehicles.

Based on the Palm Beach County thresholds, the site driveway is classified as minor.







(XX)

LEGEND

SITE LOCATION
AM VOLUMES
PM VOLUMES
DAILY VOLUMES

FIGURE 3
DELRAY TOWNHOMES
140726000
DRIVEWAY VOLUMES





CONCLUSION

It is proposed to redevelop the site located just west of Barwick Road, on the south side of 133rd Road South, in Delray Beach, Florida. The existing site consists of a one single family residential dwelling unit. The proposed plan of development includes demolition of the existing structures, and the construction of 25 multifamily dwelling units. As shown in the foregoing analysis, the site meets the requirements of the Palm Beach County TPSO, without significantly impacting any of the surrounding links.



APPENDIX A: PROJECT INFORMATION

Parcel Control Number: 12-42-46-12-00-000-3200 Location Address: 4652 133RD RD S

Owners: OCEAN RIDGE RENTALS LLC

Mailing Address: 1535 N OCEAN BLVD, DELRAY BEACH FL 33483 7322

Last Sale: MAR-2020 Book/Page#: 31308 / 1097 Price: \$1,470,000

Property Use Code: 0100 - SINGLE FAMILY Zoning: RM-8 - RM-8-MULTIPLE FAMILY (MEDIUM) (12-DELRAY

BEACH)

2023 Taxes (Preliminary)

 Legal Description:
 12-46-42 E 221.59 FT OF SW 1/40F SE 1/4 OF NW 1/4 (LESS S 40 FT CANAL R/W)
 Total SF:
 2267
 Acres
 3.18

2023 Values (Preliminary)

 Improvement Value
 \$39,486
 Ad Valorem
 \$27,390

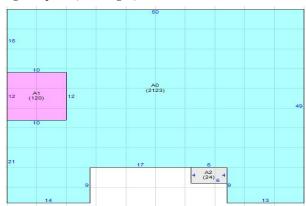
 Land Value
 \$1,499,497
 Non Ad Valorem
 \$537

 Total Market Value
 \$1,538,983
 Total Tax
 \$27,927

Assessed Value \$1,400,768 **2023 Qualified Exemptions**

Exemption Amount \$0 No Details Found
Taxable Value \$1,400,768 Applicants
All values are as of January 1st each year. No Details Found

Building Footprint (Building 1)



Subarea and Square Footage (Building 1)

Description Area Sq. Footage
FST Finished Storage 120
FOP Finished Open Porch
BAS Base Area 2123
Total Square Footage: 2267

Total Area Under Air: 2123

Extra Features

Description Year Built Unit

No Extra Feature Available

Structural Details (Building 1)

Description

1. Exterior Wall 1 MSY: CB STUCCO

Year Built
 Air Condition Desc.
 HTG & AC

4. Heat Type FORCED AIR DUCT

5. Heat Fuel ELECTRIC

 6. Bed Rooms
 0

 7. Full Baths
 2

 8. Half Baths
 0

 9. Exterior Wall 2
 NONE

 10. Roof Structure
 FLAT

11. Roof Cover BUILT-UP TAR/GRAVEL

12. Interior Wall 1 PLYWOOD PNL.

13. Interior Wall 2 N/A

14. Floor Type 1 CARPETING

15. Floor Type 2 N/A16. Stories 1



