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To: City of Port St. Lucie

From: Shaun G. Mackenzie, P.E.

Date: August 21, 2024

Re: Western Grove Parcel D-2

Rezoning Traffic Statement (MEP Job: 140-009)

Shaun G. MacKenzie P.E. PE Number 61751

MacKenzie Engineering and Planning, Inc. performed a rezoning traffic impact analysis for the proposed Parcel D-2 in Western Grove. The proposed parcel is located at the northeast corner of Tradition Parkway & N/S A in Port St. Lucie, FL (Parcel ID: 4305-701-0003-000-1). The applicant is allocated up 30,000 square feet (SF) of non-residential use. The property location is shown in Figure 1.

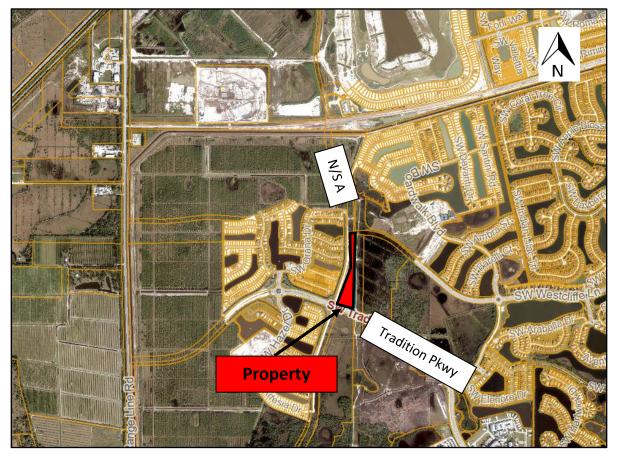


Figure 1. Property Location



Traffic Generation

In order to provide a conservative analysis, the study uses trip generation rates for Strip Retail Plaza (<40k) (ITE Land Use 822) in the Institute of Transportation Engineers' (ITE) report, *Trip Generation* (11th Edition). The trip generation can be found in Table 1 and Table 2.

The proposed rezoning will generate the following net new external trips:

• 980 daily, 43 AM peak hour (26 in/17 out), and 102 PM peak hour (51 in/51 out) trips.

The proposed rezoning will generate the following cumulative driveway trips:

• 1,634 daily, 228 AM peak hour (114 in/114 out), and 397 PM peak hour (214 in/183 out) trips.

Internal Capture

The site contains no internal capture.

Pass-by Trip Capture

The proposed pass-by trip capture rate is accordance with the Institute of Transportation Engineers' (ITE) Trip Generation Manual, 11th Edition.

Table 1. Trip Generation – Peak Hour of Adjacent Street

Land Use	Intensity	Daily	AM Peak Hour		PM Peak Hour		Hour	
		Trips	Total	In	Out	Total	In	Out
Proposed Site Traffic Strip Retail Plaza (<40k)	30.000 1000 SF	1,634	71	43	28	170	85	85
Pass-By Traffic Strip Retail Plaza (<40k)	40.0%	654	28	17	11	68	34	34
NET PROPOSED TRIPS		980	43	26	17	102	51	51

Note: Trip generation was calculated using the following data:

					AM Peak Hour		PM Peak Hour	
Land Use	ITE Code	Unit	Daily Rate	Rate	in/out	Rate	in/out	Equation
Strip Retail Plaza (<40k)	822	1000 SF	54.45	40%	60/40	2.36	50/50	Ln(T) = 0.71 Ln(X) + 2.72

ITE 11th Edition

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Table 2. Trip Generation – Peak Hour of Generator

Land Use		Intensity	,	Daily	AM Peak Hour		PM Peak Hour		Hour		
				1	Trips	Total	In	Out	Total	In	Out
Proposed Site T	Proposed Site Traffic										
Strip Retail Plaza (<40k)		30.000 100	00 SF	1,634	228	114	114	397	214	183	
Total Proposed	l Driveway `	Volumes			1,634	228	114	114	397	214	183
Note: Trip gene	eration was	calculated	d using the follow	wing d	ata:						
				F	Pass-by	A۱	/ Peak Ho	our	PI	M Peak H	our
Land Use	ITE Code	Unit	Daily Rate		Rate	in/out	Ra	ate	in/out	Equ	ıation
Strip Retail Plaza	822	1000 SF	54.45		40%	50/50	7.	60	54/46	13	3.24

ITE 11th Edition

(<40k)

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Land Use: 822 Strip Retail Plaza (<40k)

Description

A strip retail plaza is an integrated group of commercial establishments that is planned, developed, owned, and managed as a unit. Each study site in this land use has less than 40,000 square feet of gross leasable area (GLA). Because a strip retail plaza is open-air, the GLA is the same as the gross floor area of the building.

The 40,000 square feet GFA threshold between strip retail plaza and shopping plaza (Land Use 821) was selected based on an examination of the overall shopping center/plaza database. No shopping plaza with a supermarket as its anchor is smaller than 40,000 square feet GLA.

Shopping center (>150k) (Land use 820), shopping plaza (40-150k) (Land Use 821), and factory outlet center (Land Use 823) are related uses.

Additional Data

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/tripand-parking-generation/).

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Alberta (CAN), California, Delaware, Florida, New Jersey, Ontario (CAN), South Dakota, Vermont, Washington, and Wisconsin.

Source Numbers

304, 358, 423, 428, 437, 507, 715, 728, 936, 960, 961, 974, 1009



Vehicle Trip Ends vs: 1000 Sq. Ft. GLA On a: Weekday

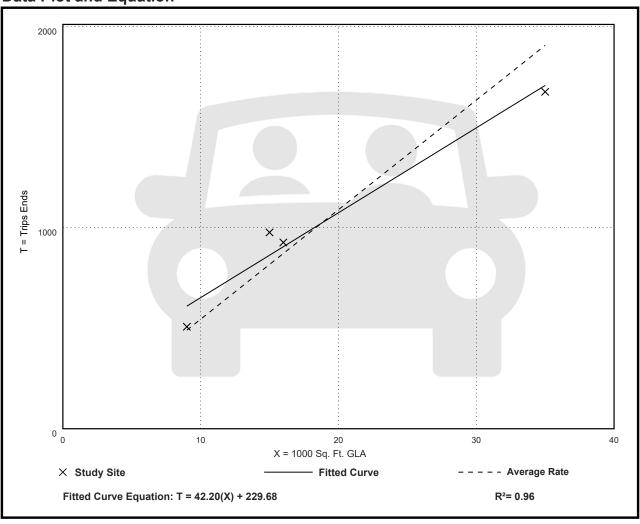
Setting/Location: General Urban/Suburban

Number of Studies: 4 Avg. 1000 Sq. Ft. GLA: 19

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
54.45	47.86 - 65.07	7.81





Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

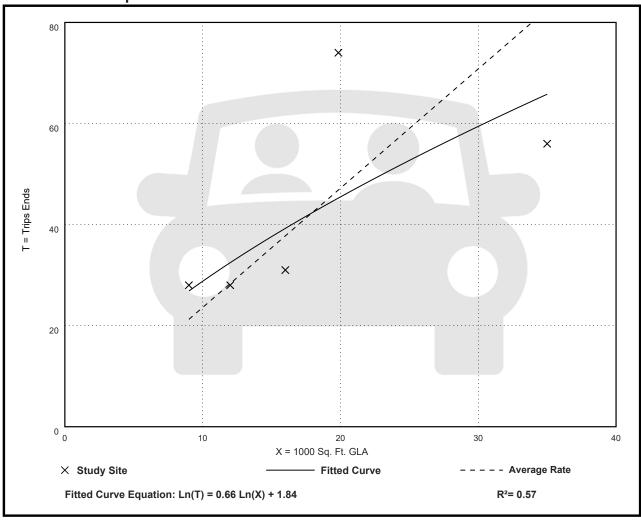
Setting/Location: General Urban/Suburban

Number of Studies: 5 Avg. 1000 Sq. Ft. GLA: 18

Directional Distribution: 60% entering, 40% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
2.36	1.60 - 3.73	0.94





Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

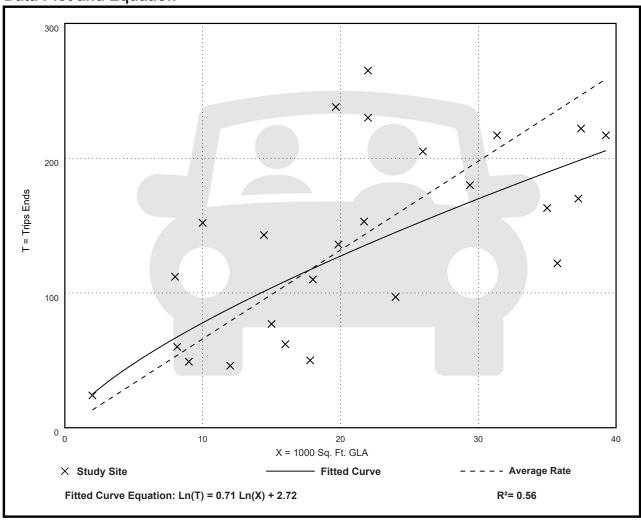
Setting/Location: General Urban/Suburban

Number of Studies: 25 Avg. 1000 Sq. Ft. GLA: 21

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
6.59	2.81 - 15.20	2.94





Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

AM Peak Hour of Generator

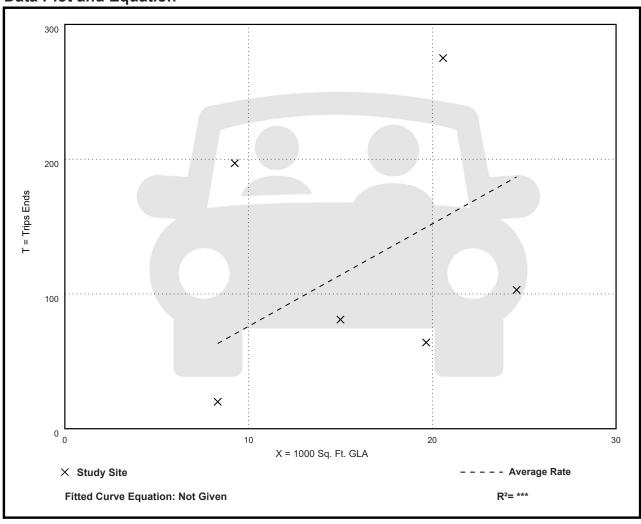
Setting/Location: General Urban/Suburban

Number of Studies: 6 Avg. 1000 Sq. Ft. GLA: 16

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate	Range of Rates	Standard Deviation
7.60	2.40 - 21.30	6.45





Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

PM Peak Hour of Generator

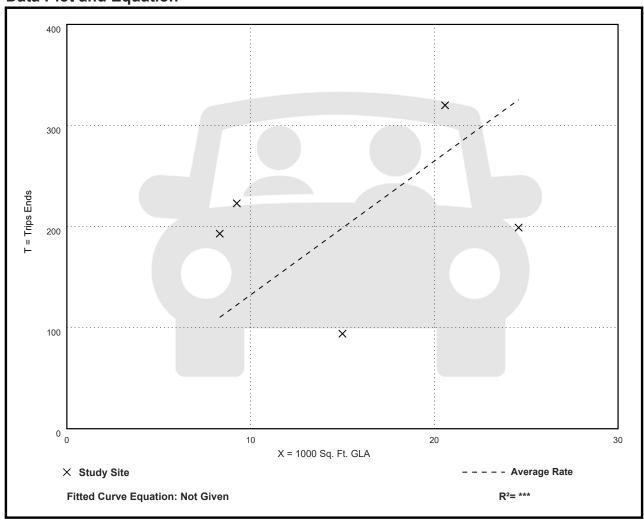
Setting/Location: General Urban/Suburban

Number of Studies: 5 Avg. 1000 Sq. Ft. GLA: 16

Directional Distribution: 54% entering, 46% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

	Average Rate	Range of Rates	Standard Deviation
Ī	13.24	6.27 - 24.11	7.40





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Property Identification

Site Address: TBD

Sec/Town/Range: 07/37S/39E Parcel ID: 4305-701-0003-000-1 Jurisdiction: Port Saint Lucie Use Type: 0000 Account #: 198521 Map ID: 43/07N Zoning:

Ownership

B-D2 Holdings LLC c/o BFC Financial 201 East Las Olas Blvd Ste 1900 Fort Lauderdale, FL 33301

Legal Description

TRADITION 4 (PB 113-3) PARCEL 4C (4.892 AC - 213,096 SF)

Current Values

Just/Market Value:\$232,400Assessed Value:\$232,400Exemptions:\$0Taxable Value:\$232,400

Property taxes are subject to change upon change of ownership.

- Past taxes are not a reliable projection of future taxes.
- The sale of a property will prompt the removal of all exemptions, assessment caps, and special classifications.

Taxes for this parcel: SLC Tax Collector's Office Download TRIM for this parcel: Download PDF 2



Total Areas

Finished/Under Air (SF): 0
Gross Sketched Area (SF): 0
Land Size (acres): 4.89
Land Size (SF): 213,096

Building Design Wind Speed

Occupancy Category	I	II	Ш
Speed	140	150	160

Sources/links:

Sale History

Date Book/Page Sale Deed Grantor Price Code

Special Features and Yard Items

Type Qty Units Year Blt

Current Year Values

Current Values Breakdown

Current Year Exemption Value Breakdown

Building: \$0 Land: \$232,400 Just/Market: \$232,400 Ag Credit: \$0 Save Our Homes or \$0 10% Cap:

Assessed: \$232,400 Exemption(s): \$0 Taxable: \$232,400

Current Year Special Assessment Breakdown

Start Year	AssessCode	Units	Description	Amount
2023	0091	0	Tradition Bond	\$0.00
Start Year	AssessCode	Units	Description Tradition Operating/Maintenance	Amount
2023	0090	1386.88		\$1,386.88
Start Year	AssessCode	Units	Description Port St. Lucie Stormwater in Tradition	Amount
2023	0065	14.06		\$2,572.98

This does not necessarily represent the total Special Assessments that could be charged against this property. The total amount charged for special assessments is reflected on the most current tax statement and information is available with the SLC Tax Collector's Office 2.

Historical Values

Year	Just/Market	Assessed	Exemptions	Taxable
2024	\$232,400	\$232,400	\$0	\$232,400
2023	\$458,600	\$458,600	\$0	\$458,600

Permits

Number Issue Date Description Amount Fee

Notice: This does not necessarily represent all the permits for this property. Click the following link to check for additional permit data in Port Saint Lucie

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