

MEMORANDUM

November 25, 2015

Re: Green Valley Lot 3, 4 & 5

Tier 1 Traffic Impact Study Project № 15-103

1. Introduction

The following is a Tier 1 Traffic Impact Study (TIS) for the above referenced project in Lake County, Florida. This letter has been prepared in accordance with Section 5 and Section 7 of the Lake~Sumter Metropolitan Planning Organization's (LSMPO) *Traffic Impact Study Methodology Guidelines*.

The property is approximately 7.39 acres and is located northwest of the SR 50/Broad Street and Green Valley Boulevard intersection in Lake County, Florida, as illustrated in **Figure 1**.

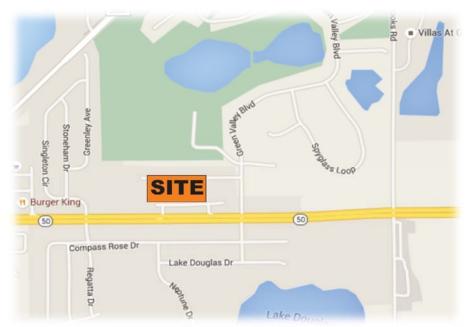


Figure 1 - Site Location Map

Green Valley Lot 3, 4 & 5 Tier 1 Traffic Analysis Project №15-103 November 25, 2015 Page 2 of 3

2. Proposed Development

The property is currently vacant and is part of the Green Valley Commons Planned Urban Development (PUD). The applicant is proposing to construct a 101,750 square foot self-storage facility. A preliminary site plan is attached for reference. Access to the site is provided via a Right-in (only) access and a Right-in/Right-out/Left-in access on SR 50/Broad Street (see **Figure A** attached).

3. Trip Generation

The traffic generation of the proposed development was calculated using the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 9th Edition.* The trip generation for the project is summarized in **Table 1** and the detailed trip generation worksheets are attached.

TABLE 1
Trip Generation Calculation Summary

ITE	Land Use	Size	Daily		PM Peak Hour				
Code			Rate	Trips	Rate	Total	Enter	Exit	
151	Mini-Warehousing	101.8 KSF	2.50	254	0.26	26	13	13	
Pass-by (8%)						2	1	1	
Net New Trip Generation						24	12	12	

Notes:

- 1. Trip Generation analysis based on ITE Trip Generation Manual, 9th Edition
- 2. Pass-by rate based on Lake County Transportation Impact Fee Schedule included in the LSMPO Traffic Impact Study Methology Guidelines

From the calculation, the proposed development is projected to generate 234 daily trips on a typical weekday, of which 24 trips will occur in the PM peak hour. This trip generation classifies this study as a Tier 1 – Traffic Impact Study per the LSMPO *Traffic Impact Study Methodology Guidelines*.

4. Distribution

It is estimated that the project traffic will distribute to the roadway network as follow:

To/from West on SR 50 - 65% (PM Peak = 8 vph EB & 8 vph WB) To/from East on SR 50 - 35% (PM Peak = 4 vph EB & 4 vph WB) Green Valley Lot 3, 4 & 5 Tier 1 Traffic Analysis Project №15-103 November 25, 2015 Page 3 of 3

5. Deminimis Impact

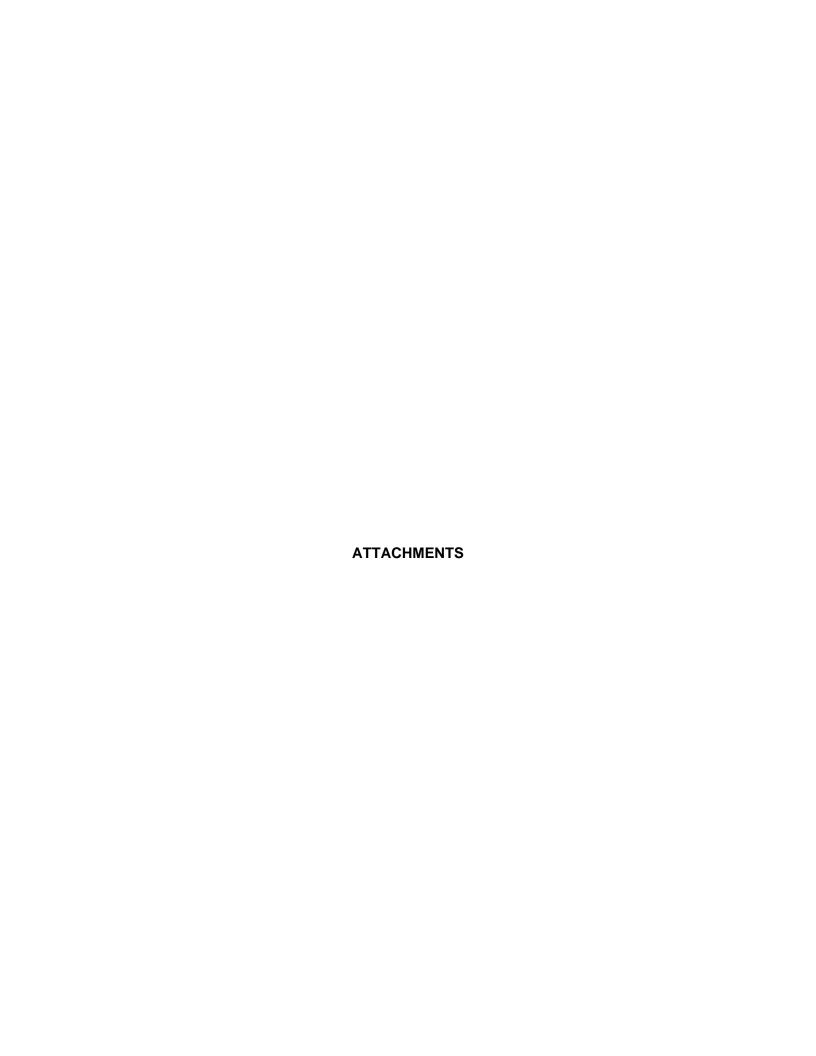
The proposed development of a 101,750 square foot self-storage facility will not have a significant impact on the surrounding transportation network during peak hour operations. Left and right turn deceleration lanes at the primary access points on SR 50 are existing to facilitate safe and adequate access to the site.

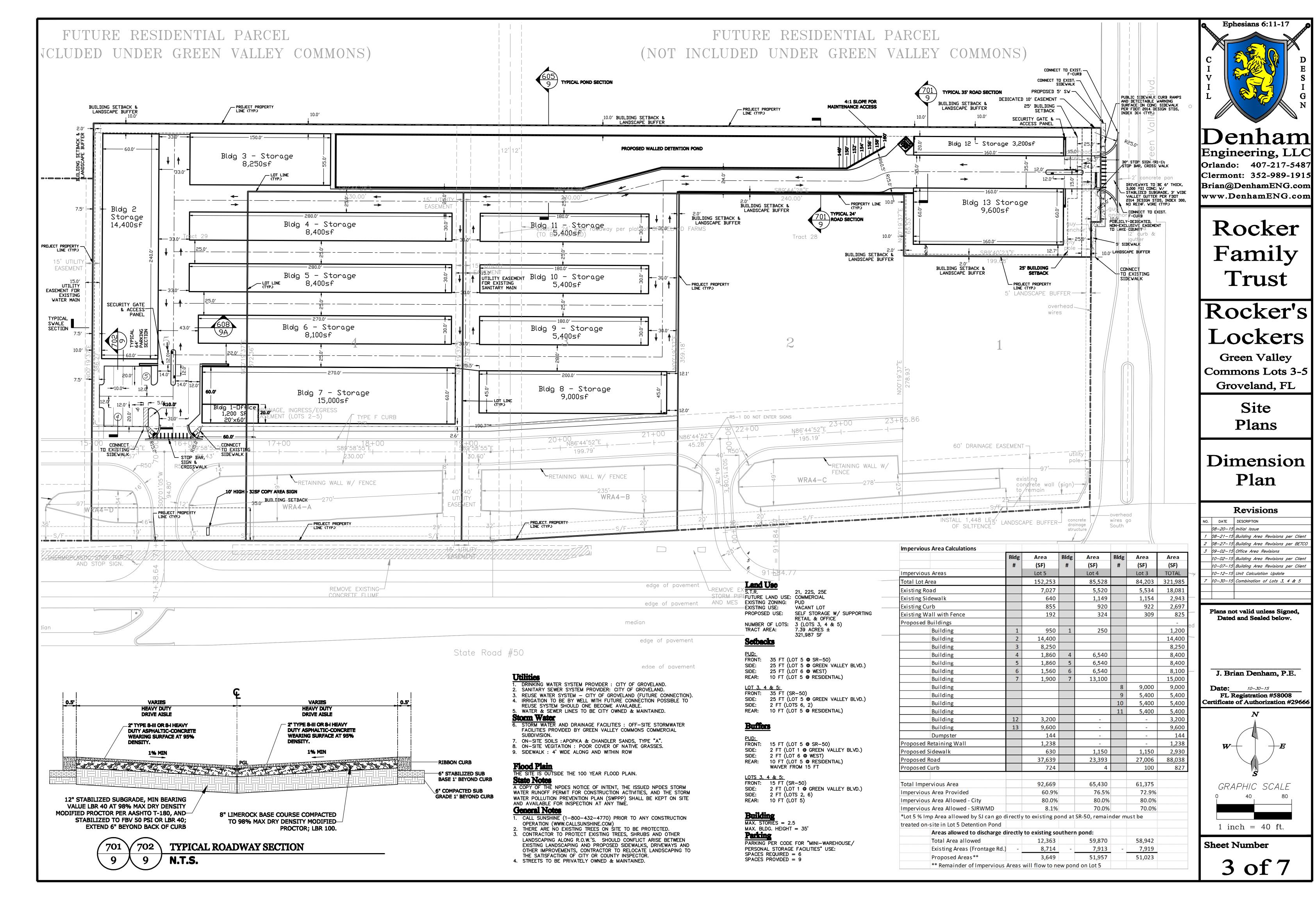
Therefore, the project should be exempt from the requirements of Concurrency Management Section.

Regards

Mohammed Abdallah, PE, PTOE

mna@trafficmobility.com





Print Preview Page 1 of 2

Mini-Warehouse (151)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Floor Area

On a: Weekday

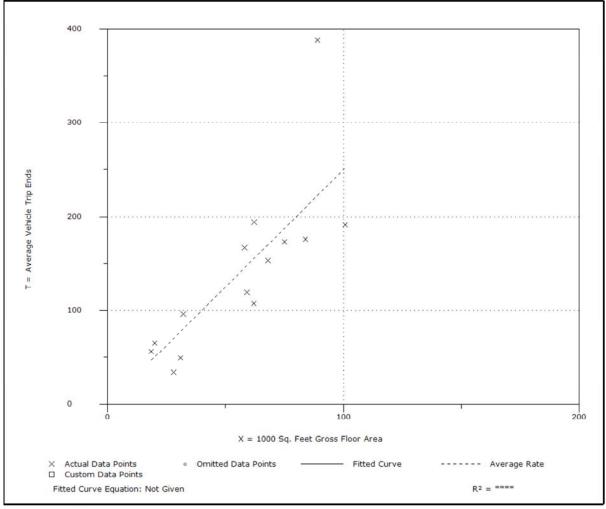
Number of Studies: 14 Average 1000 Sq. Feet GFA: Directional Distribution: 56

50% entering, 50% exiting

Trin Generation per 1000 Sq. Feet Gross Floor Area

Trip Generation per 1000 Sq. reet Gross Floor Area								
Average Rate	Range of Rates	Standard Deviation						
2.50	1.21 - 4.36	1.78						

Data Plot and Equation



Trip Generation, 9th Edition

Print Preview Page 1 of 2

Mini-Warehouse (151)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Floor Area

On a: Weekday

Peak Hour of Adjacent Street Traffic One Hour Between 4 and 6 p.m.

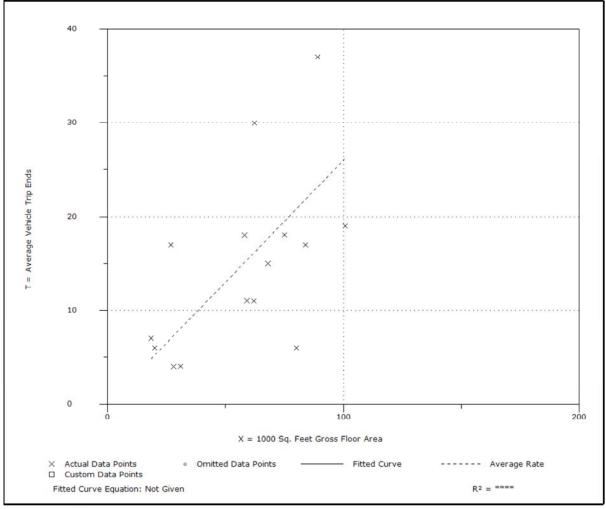
Number of Studies: 15 Average 1000 Sq. Feet GFA: 57

Directional Distribution: 50% entering, 50% exiting

Trip Generation per 1000 Sq. Feet Gross Floor Area

Trip ochiciation per 1000 oq. 1 cet 01033 11001 Area								
Average Rate	Range of Rates	Standard Deviation						
0.26	0.07 - 0.64	0.52						

Data Plot and Equation



Trip Generation, 9th Edition

Table 9-1

Lake County Transportation Impact Fee Schedule (100.0 Percent of Cost) including Sales Tax Credit as of 12-21-01

	Fee Schedule Assumptions:			<u> </u>	- · · · ·	_							
	Gasoline Tax \$ per gallon to capital: Facility life (years): Interest rate:	Unit Construction Cost: \$1,702,843 \$0.191						Local Trip Length: 0.5 Interstate Mileage %: 20.5% Across-the-Board Adjustment: 0.0%					
ITE Code	(A)	Unit (B)	Trip Rate (C)	Trip Length (D)	Total Trip Length (E)	Percent New Trips (F)	Total Impact Cost (G)	Annual Gas Tax (H)	Gas Tax Credit (I)	Across the Board Adjustment (J)	Net Impact Fee (K)	Current Fee (L)	Percent Difference (M)
- X	Madustral : The Control of the Contr			B. E. at a		disa irrati is	BENERAL SELECTION	1000 1200	a mandar sis	udercoauch-seco			
110	General Light Industrial	1,000 sf	6.97	11.14	11.64	92%	\$5,697	\$163	\$2,294	\$0	\$3,403	\$1,907	78%
120	General Heavy Industrial	1,000 sf	1.50	11.14	11.64	92%	\$1,226	\$35	\$494	\$0	\$732	\$410	79%
130	industrial Park	1,000 sf	6.96	11.14	11,64	89%	\$5,504	\$157	\$2,216	\$0	\$3,287	\$1,430	130%
140	Manufacturing	1,000 sf	3.82	11.14	11.64	92%		\$89	\$1,257	\$0	\$1,865	\$1,054	77%
150	Warehouse	1,000 sf	4.96	11.14	11,64	92%		\$116	\$1,633	\$0	\$2,422	\$1,335	81%
151	Mini-Warehouse	1,000 sf	2.50	4.37	4.87	92%		\$24	\$344	\$0	\$457	\$713	-36%
152	High Cube Warehouse (4)	1,000 sf	1.20	15.90	16.40	92%		\$39	\$557	\$0	\$843	(3)	
	Airport Hanger	1,000 sf	4.96	11.14	11.64	92%		\$116	\$1,633	· · · · · · · · · · · · · · · · · · ·	\$2,422	(3)	ar Andrews
170	Utilities Building	1,000 sf	5.44	11.14	11.64	92%		\$127	\$1,791	\$0	\$2,422	\$216	1130%

Notes:

N/A - Does not have an ITE Land Use Code
(1) Mobile Homes on a single tot of record are included in the single family home categories; the Mobile Home Park is a new category for mobile homes clustered together where the land is typically rented to the mobile home owner.

(2) Different Unit of measurement between Current Impact Fee schedule and Revised Impact Fee Schedule (3) New land use category, does not exist in Current Impact Fee Schedule

(4) Source: The Goodyear Tire & Rubber Co. Independent Impact Fee Study Supplimental Analysis, Griffey Engineeing, Inc. 2001

Source: Tindale-Oliver and Associates, Inc. 2001

C:\Documents and Settings\gwelstead\Desktop\Road Impact Fee\[table9-1.xts]Detail Fee Schedule

