

To: Kori Benton, Senior Planner  
Planning Department  
City of Fort Pierce

From: Nicholas J. Mora, P.E.  
Kimley-Horn and Associates, Inc.

Date: **DRAFT** – May 29, 2015

Re: **ROCLA Crosstie Facility  
Review of Traffic Impact Study**

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Kimley-Horn has performed a review of the traffic impact study (dated April 2015) prepared by Culpepper & Terpening, Inc. for the above-mentioned project in accordance with Section 22-217 and Section 22-218 of the City's Land Development Code. The project's development program includes a 16,850 square foot railroad crosstie manufacturing building as well as a separate 2,625 square foot office building. Please find below our review comments pertaining to the impacts to transportation facilities:

1. According to the TPO's Traffic Counts and LOS Report, the ADT volume for US1 north of Georgia Avenue is 24,720 and the ADT volume for US1 south of Georgia Avenue is 27,870. It appears Table 3 has these volumes reversed. Please correct. This comment also applies to other tables showing US1 ADT.
2. Does the applicant manage other similar facilities that can confirm the trip generation rates and estimates shown on page 9?
3. The ADT calculation on page 9 is incorrect. This equation results in 124 trips per day. Please correct and incorporate throughout the report's calculations.
4. The report assumes that no traffic activity associated with the site is expected to occur during the typical PM peak hour timeframe (between 4pm and 6pm). Please confirm this is accurate.
5. When will truck deliveries typically be made to the facility? Are they required to occur outside of typical morning (7am to 9am) and afternoon (4pm to 6pm) peak traffic periods?
6. Since no committed traffic is included within the calculations, a 0.50% growth rate seems too low. We recommend utilizing at least a 2% annual growth rate.
7. Please explain how the 7,909 value was calculated in Table 6.
8. Please confirm how all of the ADT % Impact calculations were computed in Table 7. Based on the values in the table, the % impact on South 3<sup>rd</sup> Street should be 0.84% (calculated as  $112 \div 13,320$ ).

9. The intersection of US1 & Georgia Avenue is a 5-leg intersection; however, it was modeled in the HCS analysis as a 4-leg intersection as the eastbound leg of Georgia Avenue and the northeastbound leg of Sunrise Boulevard were combined. This method is acceptable because of the nominal volumes along the eastbound leg of Georgia Avenue; however please confirm whether existing signal timing information were obtained from the maintaining agency and incorporated into the HCS analysis.

Thank you for the opportunity to assist the City of Fort Pierce in reviewing this project. Please contact us if you have any questions or need additional information.

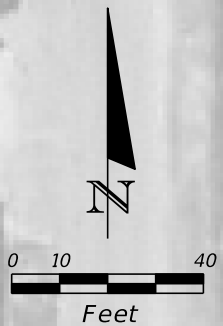


GEORGIA AVENUE

US HIGHWAY 1

SUNRISE BLVD

S 3RD STREET



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**Kimley»Horn**  
NICHOLAS J. MORA, P.E.  
 P.E. LICENSE NUMBER 70697  
 1823 SE FORT KING STREET, SUITE 200  
 OCALA, FL 34471  
 (352) 438-3000  
 CERTIFICATE OF AUTHORIZATION: 00000696

*CITY OF  
 FORT PIERCE  
 US HIGHWAY 1 AND  
 GEORGIA AVE INTERSECTION STUDY*

*WB-67 TURNING EXHIBIT  
 LEFT FROM GEORGIA AVE*

SHEET NO.  
 A



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**WB-67 TURNING EXHIBIT  
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 (DESIGN)**

SHEET NO.  
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GEORGIA AVENUE

SUNRISE BLVD

US HIGHWAY 1

S 3RD STREET

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US HIGHWAY 1

S 3RD STREET

SUNRISE BLVD

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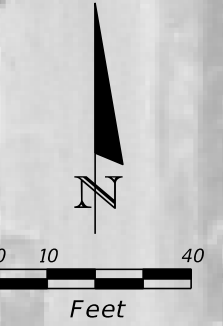


GEORGIA AVENUE

SUNRISE BLVD

US HIGHWAY 1

S 3RD STREET



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