

9229 Ward Parkway, Suite 110
Kansas City, Missouri 64114
(816) 333-4477
(816) 333-6688 Fax
www.cfse.com

Other Offices:
Topeka, Kansas
Wichita, Kansas

Executive Summary

Cook, Flatt & Strobel Engineers, P.A. has analyzed the traffic studies completed by Lutjen, Inc., and TranSystems Corporation and believes the analyses put forth by these firms to be fairly accurate with a few noted omissions. The first omission being the gas station currently located at the southwest corner of Missouri Route 92 and Regency Drive. The second omission being a connection of proposed Drive A to the south at West 19th Street.

CFS has determined that without a connection of Drive A to the south at West 19th Street the intersection of MO Route 92 and Regency Drive will operate at Level of Service (LOS) C in year 2025 PM peak hour with geometric improvements made to the intersection. This is an acceptable LOS for this intersection. These geometric improvements would include an exclusive eastbound right turn lane on MO Route 92 at the MO Route 91/ Regency Drive intersection approximately 150 feet in length, an exclusive northbound right turn lane at the MO Route 92/ Regency Drive intersection approximately 150 feet in length, and an additional southbound thru lane south of the intersection at MO Route 92/ Regency Drive terminating at the proposed intersection of Drive A and Regency Drive.

The intersection at Drive A and Regency Drive would operate at an overall LOS A in the year 2025 PM peak hour, however the east and westbound left turn movements would operate at LOS F and E respectively. These are not acceptable LOS. In the year 2013, when the development is proposed to be completed the Drive A and Regency Drive intersection would operate at LOS A in the PM peak hour, however the east and westbound left turn movements would operate at LOS E and F respectively. Again, these are not acceptable LOS.

CFS has also modeled a Right In Right Out (RIRO) entrance into and out of the gas station at the north end of the lot from MO Route 92. This entrance has also been modeled as a Right In only entrance to remove some traffic from the MO Route 92/ Regency Drive intersection. The existing gas station entrances would remain and an entrance to the south at the proposed Drive A/ Regency Drive intersection would be constructed. CFS has contacted MoDOT to gauge their approval of such entrances and has learned that a RIRO entrance would not be taken into consideration by them, but a Right In only entrance would be open to discussion. Due to the response from MoDOT, CFS recommends a Right In only entrance into the gas station from MO Route 92.

The figures labeled *AM* and *PM CFS*, and *AM* and *PM CFS w/Connection* show the geometric layout that recommended by CFS. This would include a Right In only entrance from MO Route 92, a connection to the south at the Drive A/ Regency Drive intersection and one entrance to the gas station from Regency between MO Route 92 and the Drive A/ Regency Drive intersection. The single entrance between Route 92 and Regency Drive would be a full access intersection but should be monitored by the city to determine if at any time in the future it necessitates being converted to a RIRO entrance. This geometric layout will allow for traffic to obtain full access to the gas station if at any time one or both of the other proposed entrances would become unusable.

CFS believes a connection of Drive A to the south would help with traffic flow throughout the city, not only for this development and should be constructed at some point in the future. This connection would reduce travel times to and from the south to Interstate 35 as well as to and from the proposed development. CFS believes these finding to be accurate based on the assumptions of traffic flow made in the report titled *The Shoppes at Kearney Traffic Study Review and Analysis*.

Finally the City of Kearney asked CFS to research traffic calming methods for Regency Drive. After studying various types of calming measures, CFS recommends using *Lane Necking* at points located 500 feet and 1,500 feet north of West 19th Street along Regency Drive. In addition CFS recommends *Speed Humps* or *Speed Tables* at locations just to the north of West 9th Street and West 11th Street. Lastly CFS recommends *Intersection Necking* at the intersection of Regency Drive and West 19th Street. These measures will have an effect on the speed of vehicles using Regency Drive, and possibly on the volume of traffic that utilizes this road on a daily basis.

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Vice President-Treasurer

Douglas W. Flatt, P.E.
Consultant

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