

Supplement to  
September 18, 2018 Traffic Impact Analysis for Former Radio Station Property  
(Z-18-0006, Ironbound Crossing)

December 13, 2018

In response to County Staff comment #12 in a letter dated December 5, 2018, the Applicant offers the following supplemental information, as requested:

**Comment:** Please include information about the characteristics of the Monticello/Ironbound signal

**Response:** The Monticello/Ironbound signal is part of a coordinated system on Monticello Avenue from Ironbound Road/City of Williamsburg on the east to News Road on the west. This nine-signal coordination system on Monticello Avenue is operated by InSync adaptive traffic control system (ATCS) software. ATCS systems do not have any fixed cycle lengths or coordination like conventional coordinated systems (CCS). CCS has fixed cycle length and mainline coordination controls (typically different plans for different times of day) and can be directly replicated in analysis software by using the established signal timing plans.

With ATCS, the only way to be certain of how a coordinated system is actually performing (i.e., setting cycle length and coordination) is to get InSync reports after the fact. Then analysis software can be programmed (at least theoretically) with the actual record of cycle length and coordination for that report period. Actual experience has shown that ATCS cycle lengths, which greatly affect traffic LOS, can vary widely and produce wildly different results for different weeks, if not different days of one week. ATCS is a relatively new innovation in Hampton Roads; examples of a traffic study based on actual ATCS reports are not known to exist.

**Comment:** Why was a level of service analysis not conducted?

**Response:** A LOS analysis was not conducted because:

- LOS analysis for Monticello/Ironbound was not included in the Jan. 2, 2017 workscope reviewed with VDOT and JCC.
- This site generates less than 100 vehicles per hour, which is below the zoning threshold to require a TIA.
- Queuing analysis on northbound Ironbound at the Monticello signal was included in the study to address the adequacy of that signal to accommodate site traffic.