



1 EXECUTIVE SUMMARY

This report provides a summary of a traffic impact study that was performed for a proposed residential development to be located along William Blount Drive (S.R. 335) in Blount County, TN. The project site is located southeast of the signalized intersection of William Blount Drive (S.R. 335) at Morganton Road. The conceptual plan for this project, Morganton Townhomes, proposes a total of 62 Townhomes.

The conceptual plan shows one site access onto William Blount Drive (S.R. 335), approximately 590 feet south of Morganton Road and 540 feet north of Enterprise Way.

The purpose of this study was the evaluation of the traffic operational and safety impacts of the proposed residential development upon roadways in the vicinity of the site. Of particular interest in this study is the proposed development access mentioned above as well as the signalized intersection of William Blount Drive (S.R. 335) at Morganton Road, and the unsignalized intersection of Morganton Road at Honeysuckle Road/Dotson Memorial Road. Appropriate intersection evaluations were conducted at these locations in order to determine the anticipated impacts and to establish recommended measures to mitigate these impacts. These evaluations included trip generation, trip distribution, capacity analyses, turn lane warrant analyses and sight distance assessments.

The primary conclusion of this study is that traffic generated from the proposed residential development will have minor impacts on delay at the intersections of Morganton Road at Honeysuckle Road/Dotson Memorial Road and Morganton Road at William Blount Drive (S.R. 335). The results indicate that acceptable level-of-service "D" or better operation can be anticipated at all study intersections under evaluated conditions, including combined conditions, with one exception. This is the northbound approach at Morganton Road at William Blount Drive (S.R. 335), where the AM peak is anticipated to exhibit level-of-service "F" operation under 2031 background and combined conditions. As development in the area continues consideration should be given to re-evaluating the signal timing plan at the intersection of Morganton Road at William Blount Drive (S.R. 335) and increasing the allocated green time for the northbound approach.

The following list is a summary of the improvements that are recommended to be implemented with the construction of this project:

1. Install STOP sign at unsignalized Proposed Site Access
2. Maintain vegetation within the right-of-way in order to continue to provide adequate intersection sight distance at the proposed Site Access onto William Blount Drive (S.R. 335).