

STH 59 West Town Center Traffic Impact Analysis Update dated July 10, 2020

Introduction & Executive Summary – “In brief”

Purpose of Report and Study Objectives

- A mixed use development is being proposed for the southeast quadrant of Les Paul Pkwy / Genesee Rd / Saylesville Rd with access being proposed on Les Paul Pkwy, across from the St. John Neumann Church.
- The Wisconsin Department of Transportation (WisDOT) recently reconstructed the intersection of Les Paul Pkwy / Genesee Rd / Saylesville Rd as part of the West Waukesha Bypass (WWB). As recommended, this study evaluates traffic operations with the WWB project’s proposed intersection geometrics, traffic control and traffic volumes.
- A Traffic Impact Analysis (TIA) was prepared and documented the expected AM, PM and Saturday peak hour operating conditions with base year 2020 and horizon year 2033 background traffic plus the additional traffic volumes expected from the buildout of the proposed site development.
- Based on the intersection capacity analysis, geometric and traffic control improvements were recommended to mitigate unacceptable delays at the study intersections which include the following:
 - Les Paul Pkwy and Genesee Rd
 - Les Paul Pkwy and River Valley Rd
 - Genesee Rd and Saylesville Rd
 - Saylesville Rd and Velma Dr

Recommended Improvements for 2020 Build Traffic to mitigate the impact of the development

- Extend River Valley Rd north to connect with Les Paul Pkwy
- Construct eastbound right-turn lane on Les Paul Pkwy with at least 350’ of storage
- Construct a westbound left-turn lane on Les Paul Pkwy with 350’ of storage
- Construct two 150’ northbound left-turn lanes and a shared through/right-turn lane on the River Valley Rd extension
- Install actuated-coordinated traffic signal control with a westbound protected left-turn phase, a northbound protected left-turn phase, and a southbound protected/permitted left-turn (flashing yellow arrow). Eastbound left-turn movements are recommended to remain permitted.

Conclusion

- The recommended improvements are expected to result in efficient traffic operations at all study intersection during the peak hours with full buildout of the proposed developments in the base year 2020 and horizon year 2033.
- The Wisconsin Department of Transportation, City of Waukesha and Waukesha County have reviewed and approved the STH 59 West Town Center Traffic Impact Analysis Update dated July 10, 2020