



# CSAH 9 Intersection Control Evaluation Lakeville, MN

## CLIENT:

- Dakota County PublicWorks
- City of Lakeville

## REFERENCE:

Kristi Sebastian, Dakota County  
(952) 891-7178

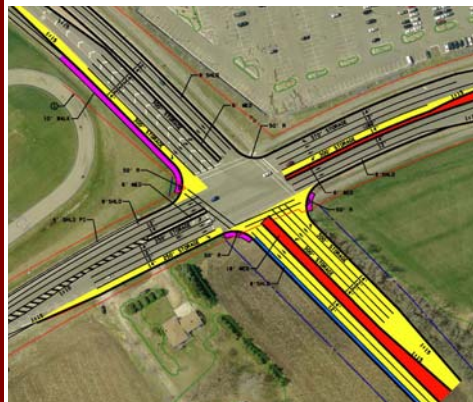
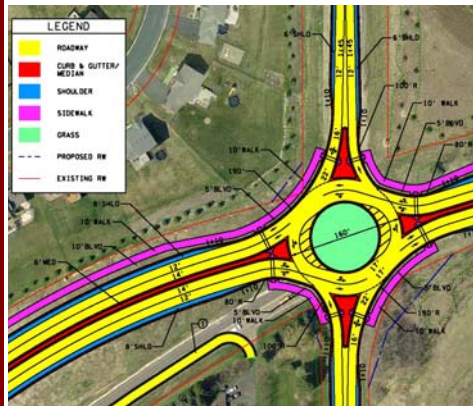
Keith Nelson, City of Lakeville  
(952) 985-4501

## SERVICES PROVIDED:

- Data Collection
- Traffic Forecasts
- Safety Analysis
- Traffic Operation Analysis
- VISSIM Simulation Modeling
- Warrant Analysis
- Preliminary Engineering (Concept Development)
- Alternatives Analysis
- Final Project Report

### Project Description:

Alliant worked with Dakota County and the City of Lakeville to evaluate two County Roadway intersections. The purpose of the intersection study was to identify the appropriate intersection design, lane geometrics and intersection traffic control device.

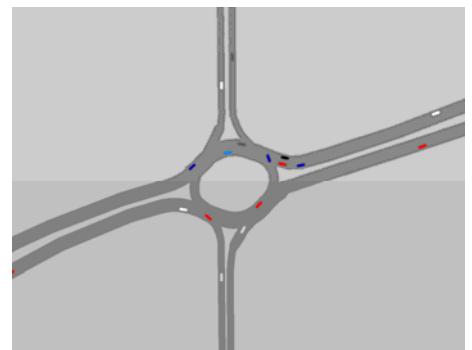


### Roles and Responsibilities:

As part of the project an intersection operation (using SimTraffic, VISSIM and RODEL) and safety analysis was completed to identify deficiencies and to support the identification of alternatives. Traffic forecasts were prepared to support a forecast and 2030 design year horizon. During the conceptual design phase, multiple alternatives including two lane roundabouts, traditional signalized intersections and multi-way stop controlled intersections were considered. A comparison matrix was prepared to help the project team assess the cost-benefit of each alternative. Key factors included construction cost estimates, right of way needs, operational performance, safety characteristics, high level environmental impacts, pedestrian/bicycle accommodations and utility/infrastructure impacts.

### End Result:

The final product included a report documenting the preferred preliminary intersection design and a prioritized schedule for a phased implementation. Design files were provided to the County to support preliminary and final engineering.



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