

# SHELBY LANE REDUCTION TRAFFIC IMPACT ANALYSIS

**CLIENT:**

City of Shelby, NC  
&  
Keck and Wood, Inc.

**JMTE SERVICES:**

- Crash Analysis
- Capacity Analysis
- Queue Analysis
- Turning Movement Counts
- Engineering Report
- Simulation Model

**LOCATION:**

Shelby, NC

**J.M. TEAGUE**  
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J.M. Teague Engineering & Planning performed a traffic impact analysis and simulation model for a lane reduction project in the City of Shelby, North Carolina. The purpose of this study was to determine the impact of the proposed lane modifications on existing traffic patterns. The project consisted of reducing the number of travel lanes and modifying the existing roadways from a “4-lane with on-street parking” cross section to a “3-lane with center turn lane and on-street parking” cross section. Queue length, level of service, and intersection delay were analyzed to determine any potential adverse traffic impacts on the roadway network from the proposed lane reduction.

