

CLAREMONT ROUNDABOUT FEASIBILITY STUDY

CLIENT:

City of
Claremont

JMTE SERVICES:

- Turn Movement Count
- Trip Generation
- Trip Distribution
- Level of Service
- Vehicle Queue
- Intersection Delay
- Intersection Capacity
- Roundabout Analysis
- Engineering Report

LOCATION:

Claremont, NC

J.M. TEAGUE
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J.M. Teague Engineering & Planning (JMTE) conducted a roundabout feasibility study at the intersection of N. Oxford Street @ Centennial Boulevard in Claremont, NC. The feasibility study incorporated long range transportation plans of extending Centennial Boulevard to the west-converting the existing “T”-intersection into a conventional 4-legged intersection. The City of Claremont tasked JMTE with determining whether a roundabout would be a suitable intersection treatment option. JMTE modeled a 4-legged roundabout utilizing SIDRA Intersection analysis software to determine LOS, delay, v/c ratio, and anticipated queue lengths.

NCDOT coordination was constant during this project to ensure a roundabout would be the appropriate intersection treatment option. JMTE also kept in constant communication with the City of Claremont City Manager throughout the entirety of the project.

