



**Multi-Way Stop for the Intersection of
Madison St and Wayne St
City Engineering Department
May 2015**

Criteria for Multi-Way Stop Installation

Based on MUTCD 2009 Edition Standards

Criterion 1: Crash Experience

This criterion is **not satisfied** because there were only 3 accidents at this intersection in the past 12 months that could have been prevented by a Multi-Way Stop.

Criterion 2: 8-hour Vehicular Volume

This criterion is **not satisfied** because the vehicles per hour entering the intersection of Wayne St. and Madison St coming from Wayne St is 679, which does exceed the required minimum 300 vehicles per hour for any 8 hours of an average day. The vehicles per hour entering the intersection from Madison St is 71, which does not exceed the required minimum 200 vehicles per hour for the same 8 hours.

Criterion 3: Major Road Approach Speed

This criterion is **not satisfied** because the 85th-percentile approach speed of traffic on Wayne St is 34 mph, which does not exceed the required minimum of 40 mph. However, it should be noted that 60% of the traffic on Wayne St was over the posted limit, with a mean speed of 27 mph both directions, 24 mph eastbound, and 30 mph westbound.

Additional Notes

This intersection is in a Willow Hill Elementary school zone. Attached to this memo, there is a map with the no parking zones in that area. Often times, especially during school pickup/dropoff times, people will illegally park in these zones.

Prepared By: _____ Date: _____
Colby Winter, Engineering Aide

Reviewed By: _____ Date: _____

Encl:

