

Completed



Multi-Way Stop for the Intersection of
Birchwood and Western
City Engineering Department
May 21th, 2018

Criteria for Multi-Way Stop Installation
Based on MUTCD 2009 Edition Standards

Criterion 1: Crash Experience

This criterion is **not satisfied** because there were no crashes at this intersection in the past 12 months that could have been prevented by a Multi-Way Stop, which is less than the required 5 preventable crashes.

Criterion 2: 8-hour Vehicular Volume

This criterion is **not satisfied** because the vehicles per hour entering the intersection of Birchwood and Western coming from Birchwood is 18, which does not exceed the required minimum 300 vehicles per hour for any 8 hours of an average day. The vehicles per hour entering the intersection from Western is 7 with an average delay to vehicular traffic of 1.28 seconds, which does not exceed the required minimum 200 vehicles per hour for the same 8 hours and the minimum average delay time of 30 seconds per vehicle during the peak hour.

Criterion 3: Major Road Approach Speed

This criterion is **not satisfied** because the 85th-percentile approach speed of traffic does not exceed the required minimum of 40 mph. The mean speed is 19 miles per hour with is well below the posted speed limit of 25 mph.

Additional Notes:

There appears to be a brand new yield sign that was installed upon completion of the construction that was taking place Birchwood. The ADT was also down significantly from previous years.

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Reviewed By: *[Signature]* Date: *8/13/18*



