



**Multi-Way Stop for the Intersection of
Barlow Rd and Boon St
City Engineering Department
June 2017**

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

Criterion 1: Crash Experience

This criterion is **not satisfied** because there were 3 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 **satisfied** because the vehicles per hour entering the intersection of Barlow Rd and Boon St coming from Barlow Rd is 634, which does exceed the required minimum 300 vehicles per hour for any 8 hours of an average day. The vehicle per hour entering the intersection from Boon St is 249, which does 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 Barlow Rd is 39 mph, which does not exceed the required minimum of 40 mph. However, it should be noted that 60% of the traffic on Barlow Rd was over the posted limit, with a mean speed of 34 mph both directions, 33 mph southbound, and 36 mph northbound.

Additional Notes:

Based on MUTCD 2009 standards if Criterion 2 is satisfied, a multi-way stop can be useful as a safety measure at the intersection, however, alternatives should be considered. Therefore, additional monitoring is advised.

Prepared By: Abhishek Deora, Engineering Aide Date: 06/19/17

Reviewed By:  Date: 12-4-17

