

Completed



Multi-Way Stop for the Intersection of  
Gilbert and E State Street  
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 0 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 Gilbert and E State Street coming from State Street is 360, 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 Gilbert Street is 66, 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 85<sup>th</sup>-percentile approach speed of traffic does not exceed the required minimum of 40 mph. The mean speed for traffic on E State Street is 27.1mph.

**Additional Notes:**

Based on MUTCD 2009 standards none of the criteria's are satisfied for Multi-way stop Installation.

Prepared By: Matthew Sexton, Engineering Aide *M.S.* Date: 05/31/2018

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



Location	Gilbert & E State St.
Day, Date	Wednesday, 5/23/2018
Conditions	Sunny 101°F
Time	10:06-11:00
Gap Length	7.5
Observer	Matthew Sexton

G = W/4 + 3

About 12' per lane  
8' for parking

**STOP WARRANT FIELD OBSERVATIONS**

PEDESTRIANS				SCHOOL CHILDREN				HANDICAP			
GAPS								LINE OF CARS WAITING LONGER THAN 5 CARS			
460, 512, 317, 404, 778, 563, 486											
7 gaps out of a possible 7											
STOP TIME DELAY											
2											
1											
2											
2											
1											
1											
1											

need speed data to finish Report.