



CMF / CRF Details

CMF ID: 4932

Convert all-way, stop-controlled intersection to roundabout

Description:

Prior Condition: The intersection was operating under AWSC control.

Category: Intersection geometry

Study: [Evaluation of Roundabout Safety, Qin et al., 2013](#)

Star Quality Rating

| | |
|----------------------|--|
| Star Quality Rating: | <input type="text" value="✘ Star"/> [View score details] |
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Crash Modification Factor (CMF)

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|----------------------------|-------|
| Value: | 1.114 |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | 0.259 |

Crash Reduction Factor (CRF)

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|----------------------------|---|
| Value: | -11.36 (This value indicates an increase in crashes) |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | 25.9 |

Applicability

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|----------------------------|---------------|
| Crash Type: | All |
| Crash Severity: | All |
| Roadway Types: | Not specified |
| Number of Lanes: | 2,4 |
| Road Division Type: | All |
| Speed Limit: | |
| Area Type: | All |
| Traffic Volume: | |
| Time of Day: | All |

If countermeasure is intersection-based

| | |
|-----------------------------------|---|
| Intersection Type: | Roadway/roadway (not interchange related) |
| Intersection Geometry: | 3-leg,4-leg |
| Traffic Control: | Stop-controlled |
| Major Road Traffic Volume: | 4100 (total entering) to 48100 (total entering) Annual Average Daily Traffic (AADT) |
| Minor Road Traffic Volume: | |

Development Details

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|----------------------------------|--------------|
| Date Range of Data Used: | 1994 to 2010 |
| Municipality: | Statewide |
| State: | WI |
| Country: | USA |
| Type of Methodology Used: | 2 |
| Sample Size Used: | Crashes |

| | |
|---------------------------------|------------|
| Before Sample Size Used: | 50 Crashes |
| After Sample Size Used: | 70 Crashes |

| Other Details | |
|---|---|
| Included in Highway Safety Manual? | No |
| Date Added to Clearinghouse: | Aug-01-2013 |
| Comments: | - Study included three-year before and after crash data for each site.- Reported traffic volume is total entering volume. |

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