



CMF / CRF Details

CMF ID: 9447

Convert to roundabout interchanges

Description: Convert to interchange roundabouts with either a single roundabout or a pair.

Prior Condition: Interchanges without roundabout ramp terminals

Category: Interchange design

Study: [Safety Performance Analysis of Roundabout Interchanges in Missouri, Claros et al., 2018](#)

| | |
|----------------------|--------------------------------------|
| Star Quality Rating: | |
| 8 Stars | [View score details] |

| Crash Modification Factor (CMF) | |
|---------------------------------|-------|
| Value: | 0.769 |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | |

| Crash Reduction Factor (CRF) | |
|------------------------------|--|
| Value: | 23.1 (This value indicates a decrease in crashes) |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | |

Applicability

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|----------------------------|--------------------------|
| Crash Type: | All |
| Crash Severity: | 0 (property damage only) |
| Roadway Types: | All |
| Number of Lanes: | 1 |
| Road Division Type: | |
| Speed Limit: | 25-45 |
| Area Type: | All |
| Traffic Volume: | |
| Time of Day: | All |

If countermeasure is intersection-based

| | |
|-----------------------------------|---|
| Intersection Type: | Roadway/roadway (interchange ramp terminal) |
| Intersection Geometry: | No values chosen. |
| Traffic Control: | Roundabout |
| Major Road Traffic Volume: | 2060 to 16715 Annual Average Daily Traffic (AADT) |
| Minor Road Traffic Volume: | 647 to 5630 Annual Average Daily Traffic (AADT) |

Development Details

| | |
|---------------------------------|--------------|
| Date Range of Data Used: | 2003 to 2016 |
| Municipality: | |
| State: | MO |
| Country: | |

| | |
|----------------------------------|---|
| Type of Methodology Used: | 2 |
| Sample Size Used: | |

| Other Details | |
|---|--|
| Included in Highway Safety Manual? | No |
| Date Added to Clearinghouse: | Oct-27-2018 |
| Comments: | This CMF is for PDO crashes at single-lane roundabout ramp terminals. Number of lanes and speed limits entered here are for ramps. |

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