



CMF / CRF Details

CMF ID: 9437

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:	1.047
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	-4.7 (This value indicates an increase in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type:	All
Crash Severity:	K (fatal),A (serious injury),B (minor injury),C (possible injury)
Roadway Types:	All
Number of Lanes:	1-2
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:	
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 fatal and injury crashes at all roundabout ramp terminals. Number of lanes and speed limits entered here are for ramps.

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