



CMF / CRF Details

CMF ID: 9792

Conversion of intersection into multi-lane roundabout

Description: Conversion of intersection into multi-lane roundabout.

Prior Condition: *No Prior Condition(s)*

Category: Intersection geometry

Study: [Crash Modification Factors Based on Crash Histories of 148 Modern Roundabouts in Five States, Zhang and Wang, 2017](#)

Star Quality Rating:	
<input type="text" value="✘ Star"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	0.8
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	20 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type:

All

Crash Severity:

All

Roadway Types:

Not specified

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type:

Not specified

Traffic Volume:

Time of Day:

Not specified

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

Not specified

Traffic Control:

Stop-controlled

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

2005 to 2013

Municipality:

State:

FL, IN, NY, PA, WA

Country:

USA

Type of Methodology Used:

3

Sample Size Used:

Other Details

Included in Highway Safety Manual?

No

Date Added to Clearinghouse:

Oct-27-2018

Comments:

Unknown intersection type to multi-lane roundabout The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggregate dataset used for CMF development.

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