

NCITE Geometric Design Committee

2/16/2017 Meeting Minutes

8:30 AM – 10:00 AM

Location: Stantec
2335 Highway 36 West
St. Paul, MN 55113

Committee Chair:
Kelly Besser, Stonebrooke Engineering
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Committee Co-Chair:
Tom Jantscher, HR Green
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Meeting Minutes:

- I. Introductions
- II. Presentation and Roundtable Discussion:

MnDOT Roundabout Steering Committee Design Guidelines Presentation and Roundtable: Part I

- Doug Carter is the new State Geometrics Engineer and is part of the Roundabout Steering Committee.
- There will be a Chapter 12 overhaul/new edition coming out summer 2017. Mark Lenters with GHD is the consultant to write and compile it.
- Topics covered during presentation:
 - Traffic capacity methods
 - UK Empirical - Based on observations of roundabouts near capacity.
 - HCM - Based on gap acceptance. Using this method in the past has resulted in overdesign due to underestimating gap capacity.

- 1x1s perform very well and reduce crashes. There isn't a single land roundabout in the country that has exceeded capacity yet.
 - 1x2s perform moderately well, although they increase crash rate, while reducing crash severity. They do perform better than 2x2s.
 - 2x2s perform poorly and increase crashes by quite a bit.
 - Chapter 12 will provided guidance on when to use each method.
 - Phi angles
 - Methods of measurement
 - Guidance will be provided in Chapter 12
 - Truck usage
 - Oversize vehicle uses
 - Truck apron and cut-through design
 - Curb styles
 - R curb to be used on truck apron. MnDOT will have a Standard Plate soon.
 - Minimize the amount of curb types used on a project.
 - Curb heights are up to designers, Geometrics will provide recommendations.
- A MnDOT Roundabout Design Guidelines class will be offered in early May. Doug will provide the information to Kelly to distribute to the GDC.

III. Next Meeting: Thursday, April 20th, 2017, same time and location.

- Topic will be Part II of today's discussion.

NCITE GEOMETRIC DESIGN COMMITTEE MEETING

Thursday, February 16th, 2017, 8:30 AM to 10:00 AM

Name	Representing	Phone Number	Email Address
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Thursday, February 16th, 2017, 8:30 AM to 10:00 AM

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