



K Three Sources of Knowledge
1) Design Guides
– Excellent Resource ~ Not STANARDS!
 Guides are Mostly for SLR (Lack <u>Correct</u> Details on MLR)

- Within are Some Good Principles of Design

2) Computer Models

- Check Your Entry Lane Configurations (Bypass?)
- Empirical Models (Also Theoretical Gap Models)
- Mostly for MLR or Verifying SLR
- 3) Expert Heuristic Knowledge of Qualified Designer
 Skill at using Guides and Models
 - Designs Using the Principles of Rbt Design (Not Standards)
 - Uses BOTH Sides of Brain for an Optimized Design
 - Roundabouts & Traffic Engineering adabaut Conference @ BTC 2008 WWW.ROUNDABOUTS.US







*** "The Guide Says"	
♦ If a Number is Used in a Guide, is the Number	
Actual Design Deview Case Study:	
Actual Design Review Case Study:	
 Some Guides State Circulatory Roadway Width 1.0 to 1.2 Times the Maximum Entry Width 	
• 18' Entry = 20' Circulatory Roadway (Good)	
 Yet the Designer Used a 26.5' Entry Width (Inappropriate for SLR = TWO 13' lanes!) 26' Entry = 32' Circulatory Rdwy (Guide Says) 	
 - 32' = Two-Lane Rbt! - Designer Justified 26.5' Entry for Wb-67 Trucks - SLR < 18-20' and Work for WB-67 Trucks! 	
 Again, Don't Justify BAD Designs w/ Guide's Text 	
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Focus On Principles
Different Types of Roundabouts Require Different
Design Techniques
Different Design Methods Apply to Different Situations
Different Site Issues/Req'mts = Different Solutions
Designing Roundabouts Properly Are As Far as You Can Get From 'Cooker Cutter' Design OR as Specified in a Tables or Figures w/in Guides
Engineers Point to Guides Improperly or as Standards Scott Ritchie, Roundabouts & Traffic Engineering











Conclusion	n <i>s</i>
I Fully Support Guides (I Help	Write Many)
Guides Are A Conglomeration of I	nformation
Think of All Those Who Contribute	ed & Help Write
 Other States, Other Design Exp 	perts, Etc
While Each May Be Capable w/in <u>Parts</u> from RTE, Parts From Kittle WisDOT, or Specifics w/in Guides Good Rbt Design or Even a Desire	Specific Field, <u>Using</u> eson, Parts From , May Not Produce A ed Result!
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