

Modern Roundabouts, Are they right for you?

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The Problem

- ◎ Traffic Congestion



- ◎ The Solution?

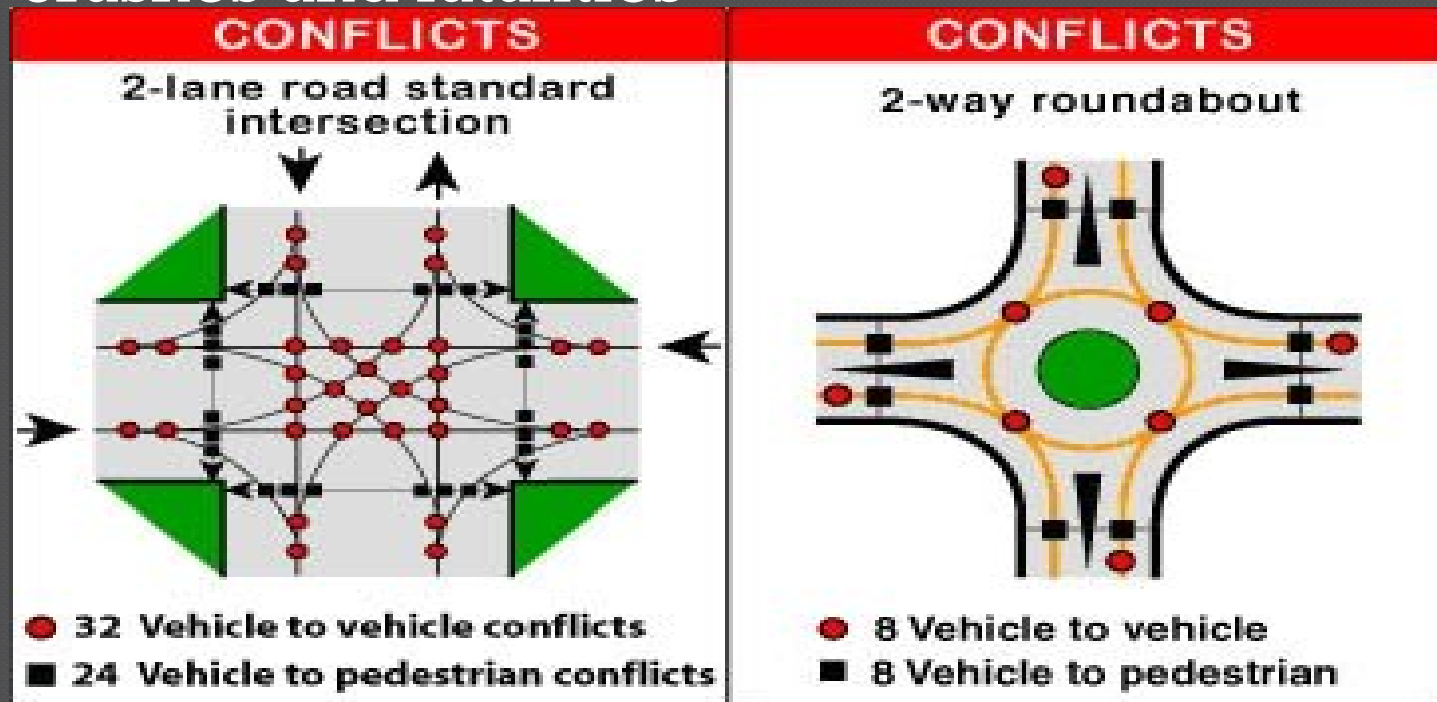
Roundabouts, Are we crazy?

- ⦿ What are they doing?
- ⦿ This will never work!
- ⦿ You are going to get someone killed!

Why consider a Roundabout?

○ Improved Safety

- Reduced conflict points result in less injury crashes and fatalities



Why? Continued

○ Higher Capacity

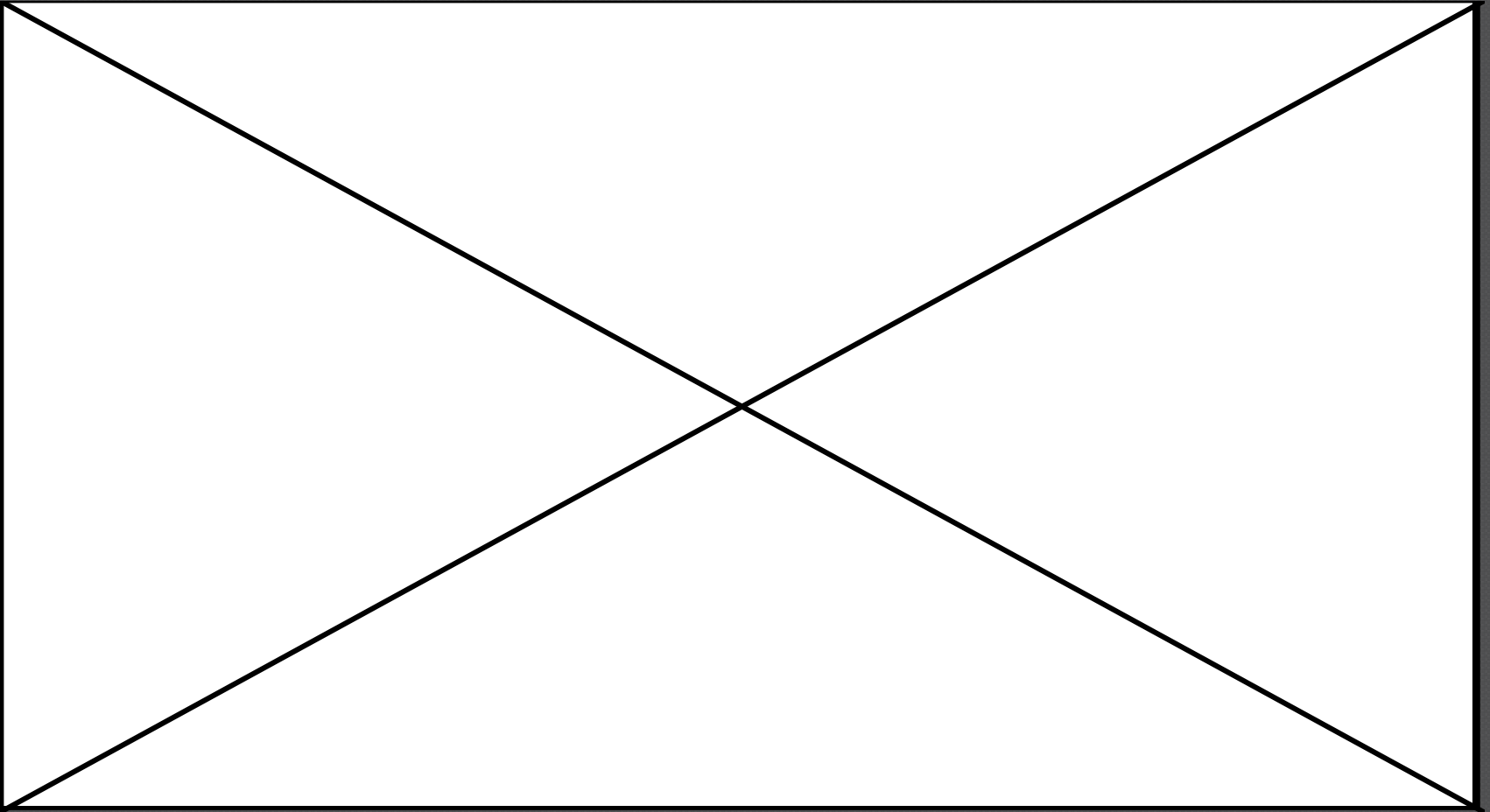
- Capacity provided for peak demands and future growth
- Excellent traffic operation and exceptional vehicle and pedestrian safety is presently being achieved by U.S. roundabouts, with traffic volumes ranging from 2,500 - 5,000 vehicles per hour

Why ? Continued

○ Cheaper

- Most of the time no signal equipment is needed
- Smaller Roundabouts require less ROW compared to traditional intersections
- Less pavement needed vs large intersections with turn lanes
- Reduced maintenance costs compared to signalized intersections

Public Misconceptions



Common Roundabout Myths

- ⦿ Modern Roundabouts are the same as traffic circles and rotaries
- ⦿ Modern roundabouts should not be used at high speed intersections
- ⦿ Construction and right-of-way costs are higher than signals
- ⦿ Roundabouts are unsafe for inexperienced and older drivers

Myths Continued

- ⦿ Roundabouts are unsafe for pedestrians
- ⦿ The public will not embrace modern roundabouts
- ⦿ Roundabouts will make congestion worse than a traffic signal
- ⦿ Roundabouts cannot accommodate large trucks or emergency response vehicles
- ⦿ Roundabouts should be used everywhere

Local Examples

● Burleigh County, ND 2015



Examples Continued

- Cass County, ND 2008



Examples Continued

- NDDOT, Killdeer, ND 2013
 - HWY 22 & HWY 200



Conclusion

- ◉ When designed correctly, modern roundabouts can be an effective tool to reduce vehicular crash rates and in most cases eliminate critical, life threatening injuries at intersections
- ◉ Roundabouts are not the magic bullet.

Questions?



THE ROUNDABOUT OF FAILURE

You have arrived