

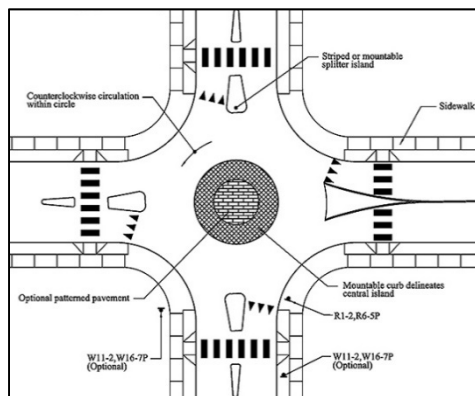
Mini Roundabout / Small Modern Roundabout

Description:

- Raised islands, placed in unsignalized intersections, around which traffic circulates
- Motorists yield to motorists already in the intersection
- Require drivers to slow to a speed that allows them to comfortably maneuver around them
- Center island of mini roundabout is fully traversable, whereas it is not for a small modern roundabout

Applications:

- Intersections of local and/or collector streets
- One lane each direction entering intersection
- Not typically used at intersections with high volume of large trucks or buses turning left
- Appropriate for both one-way and two-way streets, urban and suburban settings



(Source: Delaware DOT)



(Source: Gary Schatz)

ITE/FHWA Traffic Calming EPrimer: https://safety.fhwa.dot.gov/speedmgt/traffic_calm.cfm

Design/Installation Issues:

- Typically circular in shape, but may be an oval shape
- Small modern roundabouts usually landscaped in their center islands
- Recommend YIELD or STOP signs on all approaches
- Minimum design vehicle SU-30
- Preferable for roadway to have urban cross section (i.e., curb and gutter)
- Can be applied to road with on-street parking
- Can be applied to roads both with and without a bicycle facility. Bike lane not striped in circle.
- Key design features are the offset distance (distance between projection of street curb and center island), lane width for circling the circle, the circle diameter, and height of mountable outer ring for large vehicles such as school buses and trash trucks

Potential Impacts:

- Slight speed reduction
- Little diversion of traffic
- Bicycle and motorist will share lanes at intersections because of narrowed roadway
- Large vehicles/buses usually not able to circulate around the center island for left turns
- Landscaping needs to be designed to allow adequate sight distance
- Care must be taken to avoid routing vehicles through unmarked crosswalks on side-streets

Emergency Response Issues:

- Emergency vehicles maneuver around small modern roundabouts using the apron or mini roundabouts using the center island at slow speeds

Typical Cost (2017 dollars):

- Cost ranges between \$15,000 to \$60,000