

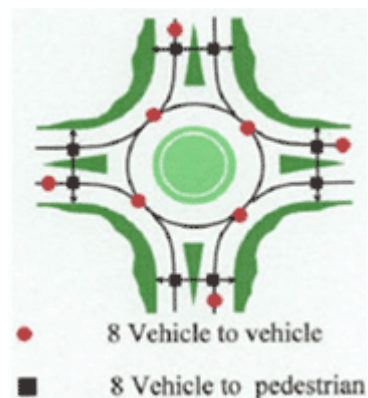
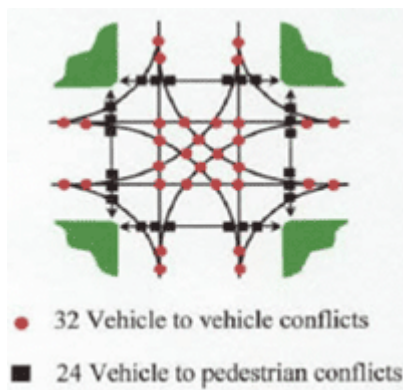
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BENEFITS OF ROUNDABOUTS IN DELAWARE

SLOWER SPEEDS AND FEWER CONFLICT POINTS = SAFER INTERSECTIONS

SAFETY

- At a four-way intersection there are 32 possible conflict points between vehicles and only 8 at roundabouts. Pedestrians face six conflicts when crossing only one leg of a four-way intersection, whereas at a roundabout they only have two. See figures below:



- 40% to 60% crash reduction when compared to traffic signals and the severity of those crashes is greatly reduced
- Crash severity for pedestrians and bicyclists is greatly reduced
- Vehicle speeds are limited to 15-20 mph through the intersection verse a signalized intersection where speeds are up to 50 mph
- Creates safer pedestrian crossings

OPERATIONS

- Roundabouts are typically placed at locations that would warrant a traffic signal
- Provides higher capacity and lower vehicle delays when compared to other intersection forms and control types when operating within their capacity
- Accommodates u-turns for cars and large trucks, allowing the City to provide safer access for points in between roundabouts
- Effectively handles heavy left turning traffic volumes
- Reduces delay on the minor roads

MAINTENANCE

- Eliminates traffic signal maintenance/repair
- Intersection is unaffected by power outages

ENVIRONMENTAL

- Increased fuel savings due to the elimination of stop-and-go movements
- Reduces air pollution by decreasing vehicle emission
- Amount of storm water runoff is reduced in result of the reduction of impervious area (pavement/concrete)