

# SAFERoad SOLUTIONS

## EFFECTIVE ROAD DESIGNS EXPLAINED

### Roundabouts



A **roundabout** is a one-way circular intersection in which traffic moves counter-clockwise around a center island.



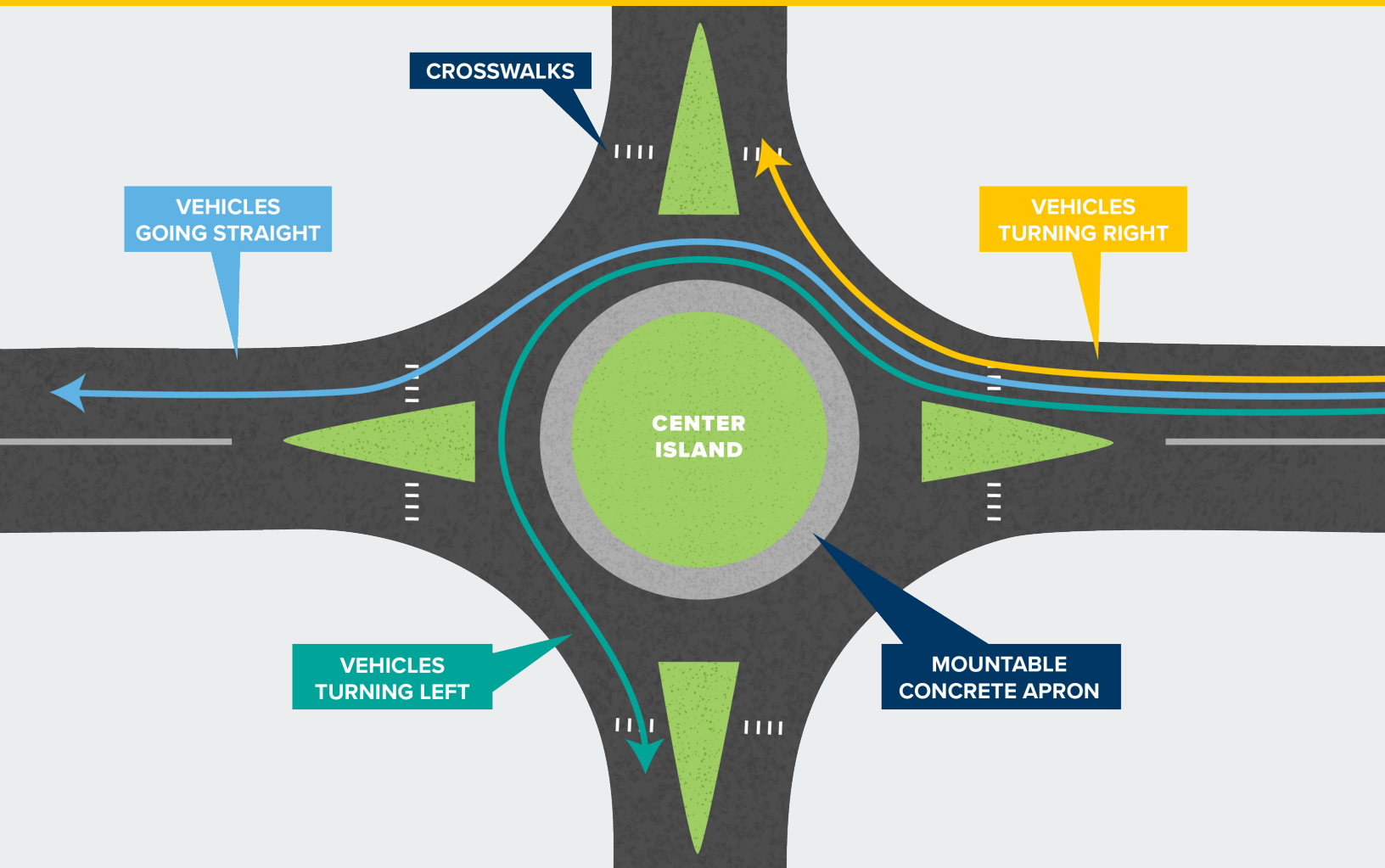
### BENEFITS

- **Enhanced safety** – roundabouts reduce fatalities, injuries, and collisions.
- **Save time** – roundabouts streamline vehicle movement allowing drivers to experience fewer stops, shorter delays, and less congestion.
- **Reduce pollution and fuel use** – motorists add fewer emissions to the environment, as they make fewer stops followed by hard accelerations and spend less time idling.
- **Save taxpayer money** – roundabouts save money since there is no traffic signal equipment to install, power and maintain.

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### WHAT TO KNOW ABOUT ROUNDABOUTS

- Roundabouts do not have traffic signals or stop signs, which allows for continuous traffic flow and increased vehicle capacity.
- Vehicles entering a roundabout slow down and yield to the vehicles already within the roundabout.
- Roundabouts can have one or more lanes, depending on space and the traffic volume within the intersection.
- They are designed to accommodate vehicles of all sizes—from small cars to tractor trailers, school buses and boats.

### WHEN TO USE A ROUNDABOUT

*A roundabout is effective for interchange locations with:*

- A high volume of cross-traffic turns
- A high volume of crashes, especially left turn crashes
- A similar volume of traffic on each leg

