



N. Grandview/Delhi St./Grace St. roundabout open to traffic, nearing completion

BENEFITS

Roundabouts are becoming more common in Iowa due to their many benefits.

Efficient

Roundabouts reduce delay by allowing motorists to yield rather than stop at a red light or stop sign. They can also handle higher traffic volumes, which helps vehicles get through quicker.

Economical

Reducing driver delay saves time and fuel. Eliminating a signal also saves approximately \$3,000 to \$5,000 per year in maintenance and energy costs for the signals.

Green

Roundabouts reduce fuel consumption and vehicle pollution because vehicles are not idling at a red light or a stop sign.

The center island of a roundabout provides an opportunity to beautify the location with landscaping. Flowers, trees, or even simple green space can be placed in the center of a roundabout, making the intersection aesthetically pleasing.

Why a roundabout?

As more traffic uses the existing Grandview/Delhi/Grace intersection, the delay at the existing stop signs was expected to increase, causing increased driver frustration and potentially more crashes. The goal of this intersection improvement project is to provide a safer and more efficient intersection.

Additionally, the intersection's existing pavement was in need of replacement. This project also provides improved pavement throughout the intersection.

Why not traffic signals/lights?

It is very difficult to provide acceptable traffic operations with traffic signals at five-legged intersections similar to this. Additionally, due to the complexity of the intersection, traffic signals would not be expected to increase the safety of the intersection.

Safety

Roundabouts are safer than other intersections because severe head-on and left-turn crashes do not occur. Other safety benefits include slower speeds and the fact that drivers only look in one direction to see oncoming traffic.

Roundabouts have been proven to reduce overall accident rates by approximately 30-40%. Personal injury and fatal collisions have been reduced by over 75-90%. In addition, studies have shown that fewer accidents involving pedestrian and bicyclist occur at roundabouts as compared to signalized intersections.

Pedestrians are safer at roundabouts because a roundabout crosswalk is split into two shorter crossings of low-speed, one-way traffic. At traffic lights, pedestrians can spend more than twice as much time in the road and they need to look in four different directions: for traffic turning right or left on green, or right on red, or running the red light. With roundabouts, traffic is slower and crosswalks are shorter. Roundabouts have about one fourth as many pedestrian injuries as a typical "crossroad" type intersection.

For instructional videos and more, visit
www.cityofdubuque.org/roundabouts

All about ROUNDABOUTS

a guide for Dubuque residents



Details regarding Dubuque's first modern roundabout at the intersection of N. Grandview Avenue, Delhi Street, and Grace Street.

THE CITY OF
DUBUQUE
Masterpiece on the Mississippi

Phone: 563.589.4270

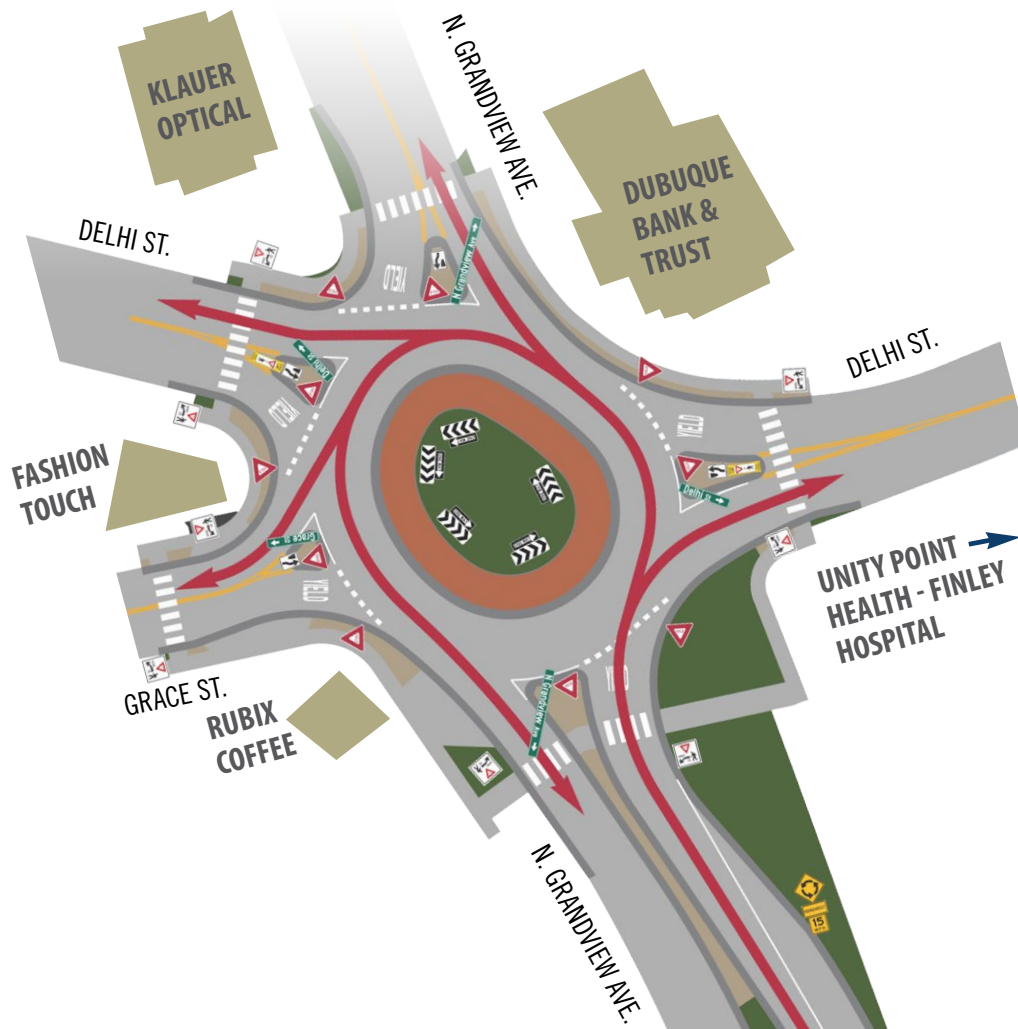
Email: engineer@cityofdubuque.org
www.cityofdubuque.org/roundabouts



Yield ▶ The “Golden Rule” of driving roundabouts

When you enter the roundabout, you must yield to circulating traffic. Yield means the other drivers in the circle have the right of way. A motorist approaching a roundabout should wait for a safe gap in traffic before entering.

For instructional videos on driving through a roundabout (in a vehicle and on a bike) and crossing the intersection at the crosswalks, visit www.cityofdubuque.org/roundabouts.



Crossing Roundabouts as a Pedestrian

- Cross only at designated crosswalks
- Extend your arm and point to show motorists that you intend to cross
- Wait at the crosswalk for a safe gap in traffic
- Cross when traffic yields or there is a safe gap
- If there is a median island, wait there for a gap in the other direction
- Never cross to the center of a roundabout



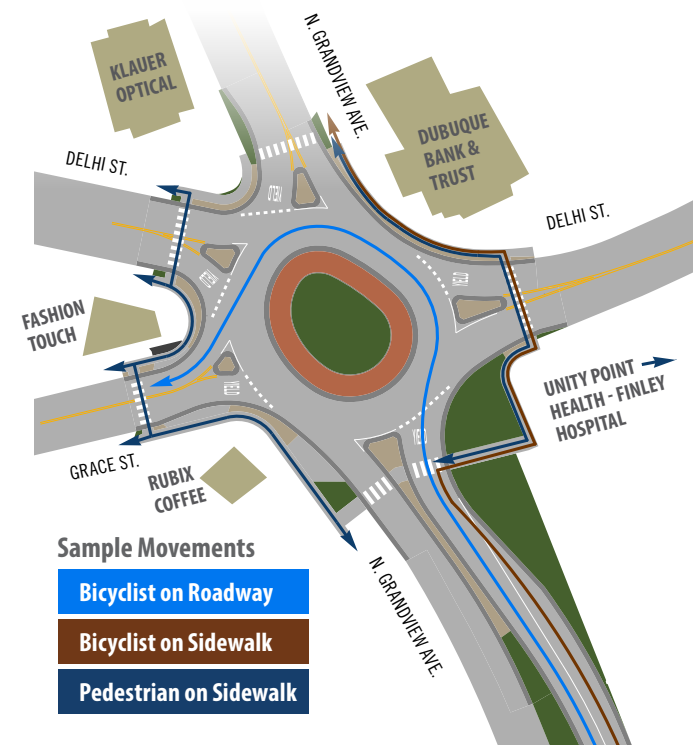
Bicycles and Roundabouts

- Bicyclists on the road can travel through roundabouts using the same general rules that apply to motorists
- Take the lane and maintain a good pace
- Bicyclists on the sidewalk should dismount at the access ramp and walk their bicycle through the crosswalk using the same rules as pedestrians



More about roundabouts

For more details on the Grandview/Delhi/Grace roundabout, including videos, FAQs, flyers, and related information, visit www.cityofdubuque.org/roundabouts or call 563.589.4270.



Sample Movements

Bicyclist on Roadway

Bicyclist on Sidewalk

Pedestrian on Sidewalk