

Cumberland Avenue and Kent Avenue Roundabout

Approximate Opening Date: Early to Mid August



How to Drive the Cumberland Avenue and Kent Avenue Roundabout

- As you approach the roundabout, slow your vehicle to the posted advisory speed, which is 15 mph.
- Yield to any pedestrians in the crosswalk.
- Look to your left. If there are circulating vehicles, yield to them. They have the right-of-way. If there are no vehicles, do not stop.
- Once inside the roundabout, circulate counterclockwise around the central island to the desired exit.
- After passing the exit prior to your desired exit, turn on your right-turn signal to indicate to other drivers your intentions to exit.
- After exiting at your desired exit, watch for and yield to pedestrians in the crosswalk.

Other West Lafayette Locations Where Roundabouts Are Planned or Currently Being Designed

Cumberland Ave. & Yeager Rd.
Cumberland Ave. & Manchester Dr.
Yeager Rd. & Kalberer Rd.
Yeager Rd. & Northwestern Ave.
Harrison St. & Martin C. Jischke Dr.

Cumberland Avenue Reconstruction Webpage

For more project information regarding the ongoing Cumberland Avenue Reconstruction project, visit the project webpage at:

<http://cumberlandreconstruction.schneidercorp.com>

Other Helpful Links

West Lafayette Roundabout Webpage

<http://tiny.cc/WLRoundabouts>

Federal Highway Administration:

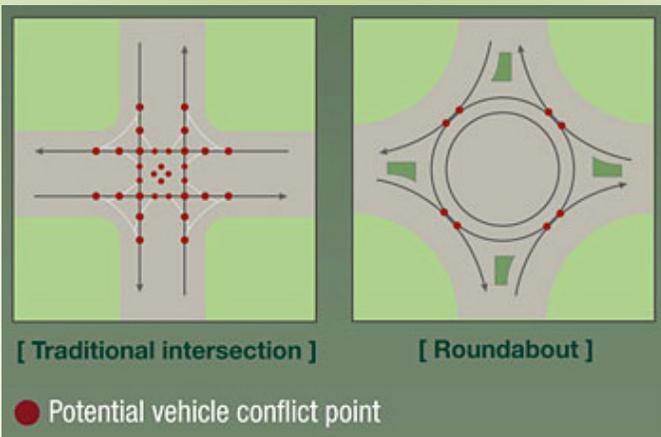
<http://safety.fhwa.dot.gov/intersection/roundabouts/>

Insurance Institute for Highway Safety:

<http://www.iihs.org/research/topics/roundabouts.html>

Roundabout Safety Benefits

- Reduction of traffic speeds (15 to 25 mph)
- Drastic reductions in crash rates when compared to a traditional intersection:
 - Up to 90% reduction in fatalities
 - 76% reduction in crashes resulting in injury
 - 30 – 40% reduction in crashes involving pedestrians
- Reduction in conflict points (point at which two opposing vehicle paths cross, and thus a potential for a collision exists)



Other Benefits of Roundabouts

- **Efficiency:** Because traffic flow is smooth at a roundabout, the total number of vehicles that must stop is reduced drastically.
- **Environmentally Friendly:** Less stopped vehicles translates to a reduction in air pollution, noise pollution, and fuel consumption.
- **Less Reliant on Electricity:** When the electricity is interrupted, roundabouts still work without the intervention of the police.
- **Aesthetics:** The central island of a roundabout provides an opportunity for simple landscaping that will enhance the West Lafayette community.

Signs Specific to Single Lane Roundabouts



Roundabout Ahead: This sign is posted in advance of the roundabout to alert drivers that they are approaching a roundabout.

Underneath the roundabout ahead sign, as shown here, two optional signs may be used. One is the cross-street sign, which tells the motorist the name of the intersecting street in advance of the intersection. The other is an advisory speed.



Chevron (black arrows on yellow background) and One-Way sign assembly: These signs are used together, as shown here. They are placed in the central island at a location where entering drivers can see them. They serve to reinforce to drivers that they must drive counterclockwise around the central island of the roundabout.

"Shark Tooth" Pavement Markings

The yield line is composed of small, triangular pavement markings to represent the shape of a yield sign. This is the point at which entering vehicles must yield to circulating traffic.

