



WisDOT is considering the use of a **diverging diamond interchange (DDI)** at highway interchanges across the state including along I-41. This innovative interchange, sometimes called a “double crossover diamond,” is designed to gradually direct cars to veer left or right.

These interchanges have been shown to increase capacity and safety, decrease congestion and minimize the cost of new infrastructure. *Examples of DDIs in Wisconsin can be located at WIS 441/Oneida Street (US 10) in Appleton and I-39/Avalon Road in Janesville.*

#### Advantages of this type of interchange

**Safety** - Reduces the number of ways vehicles can collide by almost half (14 compared to 26 for a conventional diamond interchange).

**Greater capacity and efficiency** - Accommodates more traffic than conventional designs. Drivers make free-flow right and left turns on to the major freeway.

**Easy navigation** - Guides drivers with overhead signs, pavement marking, and traffic signals. Meets the needs of all road users - Accommodates large trucks, pedestrians and bicyclists.

**Cost** - Comparable to a diamond interchange.

#### Disadvantages of this type of interchange

**Learning curve** - Since this is a newer type of interchange, there is a learning curve for motorists.

#### Navigating a DDI

- Drivers follow the signs, signals and pavement markings to cross through the intersection at the first set of traffic lights. Traffic appears as if on a one-way street.
- All left turns onto the freeway are free flow, meaning vehicles do not have to stop to access the ramp.
- Vehicles going straight simply proceed through a second set of traffic lights.
- Pedestrians travel on designated walkways and cross only at the crosswalks.
- Bicyclists may choose to use the bike lane or pedestrian walkways and crosswalks.

## Diverging Diamond Interchange (DDI)

I-41 | Outagamie & Brown Counties, Wisconsin

2020-05-13

