



San Bernardino County  
Transportation Authority

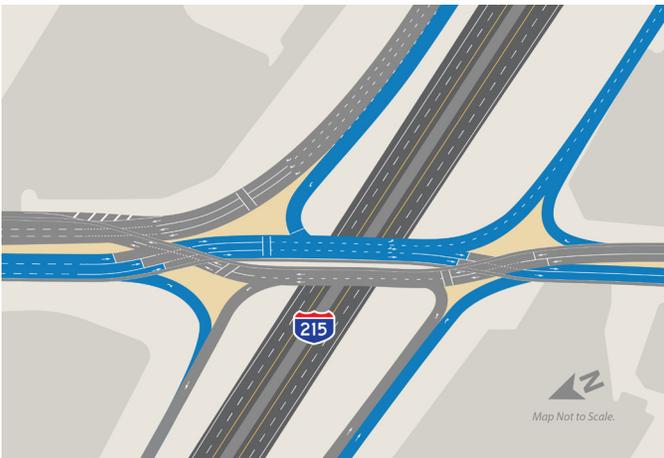
## I-215/UNIVERSITY PARKWAY DIVERGING DIAMOND INTERCHANGE San Bernardino, CA

### Frequently Asked Questions (FAQ)

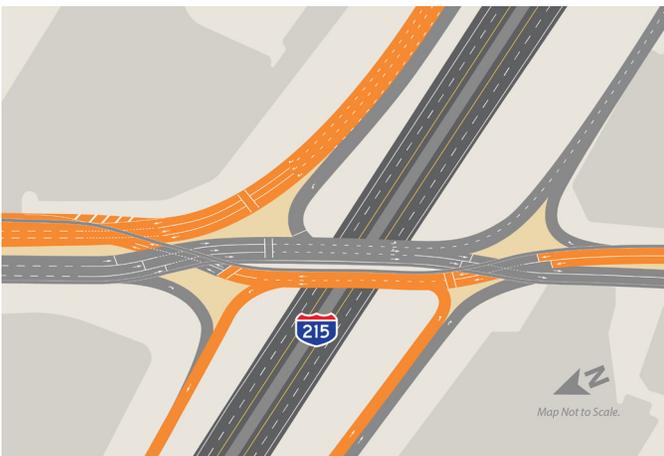
#### 1. What is a Diverging Diamond Interchange?

A Diverging Diamond Interchange (DDI) is an innovative interchange design that improves safety and traffic flow where busy local roads cross a freeway.

As drivers approach the interchange, traffic briefly shifts to the left side of the roadway at a signalized intersection. This allows vehicles to enter and exit freeway ramps without turning across oncoming traffic. After passing through the interchange, traffic returns to the right side of the road. See diagram below.



By reducing conflict points and simplifying traffic movements, a DDI helps move vehicles more efficiently while improving safety for drivers, pedestrians, and cyclists. See diagram below.



#### 2. How does the DDI compare to other interchange forms?

When comparing the DDI to other diamond interchange forms with the same number of through lanes, the DDI is less expensive to build, safer, and allows more cars to travel through the interchange.

#### 3. What are the benefits of a DDI?

Compared to traditional diamond interchanges with the same number of lanes, a DDI can:

- Improve safety by reducing conflict points
- Move more vehicles through the interchange
- Reduce delays by simplifying signal operations
- Lower construction costs by maximizing existing infrastructure

This design helps improve traffic flow using the existing roadway.

#### 4. How does the DDI affect adjacent intersections?

When the signals of the DDI are synchronized with the signals of adjacent local intersections, traffic flow improves by allowing more vehicles to travel through each green light, reducing congestion.

#### 5. What should a pedestrian or cyclist do to safely cross the interchange?

Obey the signs, signals, and markings. The crosswalks and bike lanes are clearly marked. A DDI is safer for pedestrians and cyclists since there are no vehicle left turns clearing opposing traffic.

#### 6. Are there other DDI's in the U.S.? When and where was the first one built?

The first DDI opened in the U.S. in 2009 at I-44 and SR-13 in Springfield, Missouri. Since then, DDIs have been successfully implemented across the country due to their safety and efficiency benefits. Today, there are more than 90 DDIs operating nationwide, with several DDI projects planned or underway in California.

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