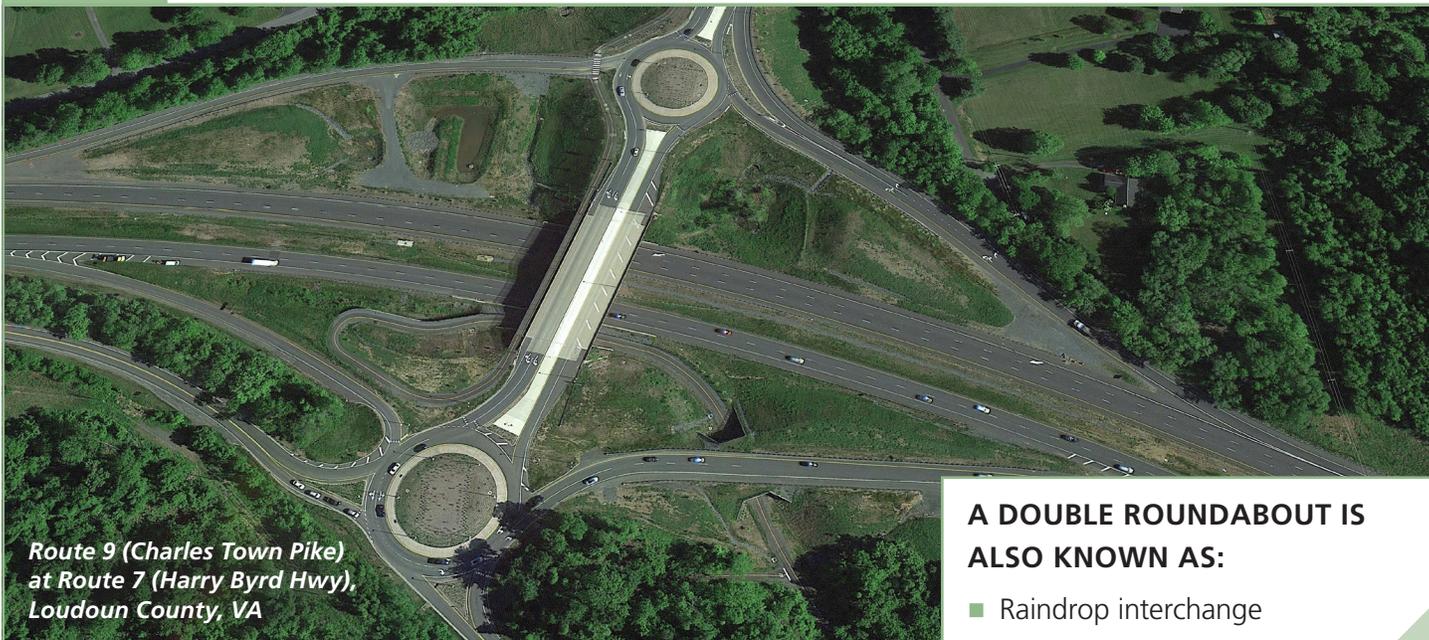




INNOVATIVE INTERCHANGES

# Double Roundabout



Route 9 (Charles Town Pike)  
at Route 7 (Harry Byrd Hwy),  
Loudoun County, VA

**A DOUBLE ROUNDABOUT IS ALSO KNOWN AS:**

- Raindrop interchange

## What is a double roundabout?

- A grade-separated interchange design where all freeway ramps begin or end at one of two roundabouts
- The roundabouts are circular, unsignalized intersections where all traffic moves in a counter clockwise direction around a central island

## When should a double roundabout be considered?

- At interchanges with heavy left turns volumes onto the freeway ramps
- At locations where there is limited room between the ramp intersections for vehicles to wait at traffic signals
- At heavily-used freeway off-ramp intersections where vehicles tend to back up on the freeway

## What are the benefits of a double roundabout?

- **Improved safety:** Reduces the number of points where vehicles can cross paths and eliminates the potential for right-angle and head-on crashes
- **Increased efficiency:** Decreases the delay for ramp traffic and eliminates signal coordination between the two ramp terminals
- **Continuous flow:** Yield-controlled design minimizes backups on the freeway, reducing the potential for high-speed rear-end crashes
- **Cost-effective:** Allows for a narrower bridge because it eliminates at least two turning lanes

## What are innovative interchanges?

Interchange designs where traffic movements are modified to improve safety, reduce delay, and increase efficiency.

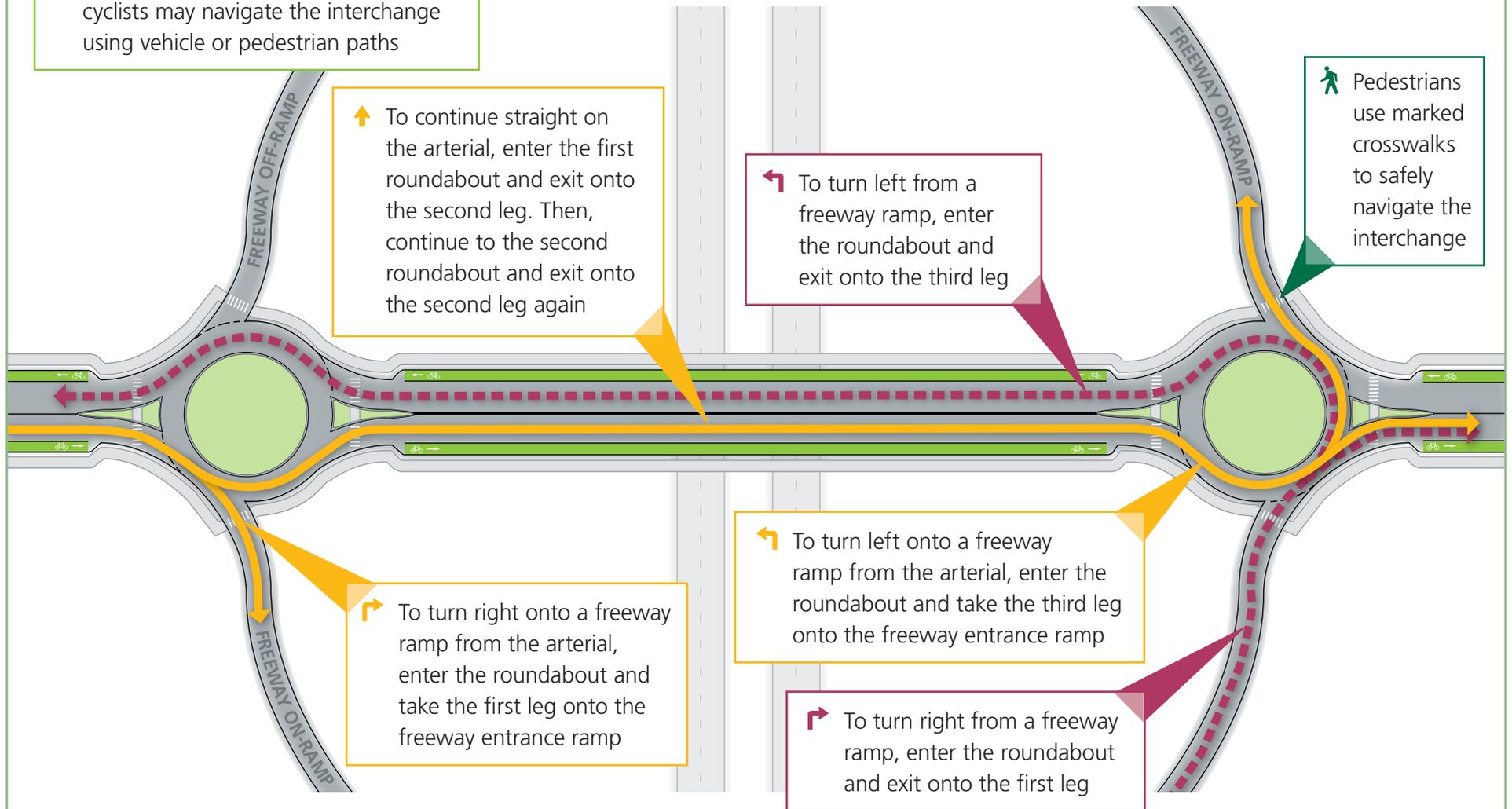
Visit [www.virginia.gov/innovativeintersections](http://www.virginia.gov/innovativeintersections) to learn more.





# Navigating a Double Roundabout

 Depending on their level of comfort, cyclists may navigate the interchange using vehicle or pedestrian paths



NOT TO SCALE

**Note: For simplicity, only two directions of traffic are shown. Opposing traffic follows similar routes.**