



Split Intersection



US 1 in Old Town Alexandria, VA

What is a split intersection?

- An intersection that divides traffic on the major street into two one-way streets that meet the side street at separate signalized intersections
- Similar to a traditional diamond interchange without grade-separated roadways

When should a split intersection be considered?

- At congested suburban intersections with heavy left-turn traffic volumes
- In urban areas where two-way streets can be converted to one-way streets
- Intersections that may require grade-separation in the future

What are the benefits of a split intersection?

- **Improved safety:** Reduces and spreads out the number of points where vehicles, pedestrians, and bicyclists may cross paths
- **Increased efficiency:** Separating traffic flow on the major street allows the intersection to handle a greater volume of traffic and operate with less delay
- **Better synchronization:** Corridor travel times are improved on both the major and side streets through synchronization of the two signalized intersections
- **Shorter wait times:** Fewer traffic signal phases means less time stopping at the intersections

What are innovative intersections?

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

Visit www.virginiadot.org/innovativeintersections to learn more.





Navigating a Split Intersection



Pedestrians use marked crosswalks to safely cross the intersection



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



To make a left turn from the side street, go straight through the first intersection, then turn left at the second intersection



To continue straight on the side street, navigate the intersection like at a conventional intersection



From the major street, navigate the intersection like at a conventional intersection



To turn right from the side street, turn right at the first intersection

NOT TO SCALE

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