**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.

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**What is a center turn overpass?**

- An intersection that elevates all left-turn movements from the main intersection using ramps within the median
- Left-turn vehicles use an acceleration lane to merge with through traffic
- Both the elevated and at-grade intersections are controlled by a two-phase signal
- Uses the same operating principals as a conventional intersection
- All pedestrian sidewalks and crosswalks are at-grade

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**When should a center turn overpass be considered?**

- At intersections with heavy left-turn traffic volumes
- At intersections where the major and side streets have similar left-turn traffic volumes
- At intersections where the major street is six lanes or wider
- At intersections where there is limited right-of-way to expand

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**What are the benefits of a center turn overpass?**

- **Improved safety:** Reduces the number of points where vehicles cross paths and decreases the potential for angle crashes. Eliminates points where pedestrians and left-turn vehicles cross paths
- **Increased efficiency:** Separates left-turn movements from through traffic—allowing for fewer traffic signal phases, which reduces delay and increases capacity
- **Better synchronization:** Synchronization of the two signalized intersections improves corridor travel times on both the major and side streets

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**What is a center turn overpass?**

*Conceptual rendering of a center turn overpass*
Depending on their level of comfort, cyclists may navigate the intersection using vehicle or pedestrian paths.

To make a left turn, take the left-turn-only ramp to the elevated intersection, turn left at the traffic signal, then merge with through traffic.

To go straight or turn right, navigate the intersection like a conventional intersection.

Pedestrians use marked crosswalks to safely cross the intersection at grade.

Note: For simplicity, only one direction of traffic is shown. Traffic in the other directions follows similar routes.

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