

PROVEN SAFETY COUNTERMEASURES



Left and Right Turn Lanes at Two-Way Stop-Controlled Intersections

SAFETY BENEFITS:

28-48%

Reduction in total crashes

right-turn lanes 14-26%

Reduction in total crashes



Source: Highway Safety Manual

Auxiliary turn lanes—
either for left turns or
right turns—provide
physical separation
between turning traffic
that is slowing or stopped
and adjacent through
traffic at approaches
to intersections. Turn
lanes can be designed to
provide for deceleration



Source: FHWA

prior to a turn, as well as for storage of vehicles that are stopped and waiting for the opportunity to complete a turn.

While turn lanes provide measurable safety and operational benefits at many types of intersections, they are particularly helpful at two-way stop-controlled intersections. Crashes occurring at these intersections are often related to turning maneuvers. Since the major route traffic is free flowing and typically travels at higher speeds, crashes that do occur are often severe. The main crash types include collisions of vehicles turning left across opposing through traffic and rear-end collisions of vehicles turning left or right with other vehicles following closely behind. Turn lanes reduce the potential for these types of crashes.

Installing left-turn lanes and/or right-turn lanes should be considered for the major road approaches for improving safety at both three- and four-leg intersections with two-way stop control on the minor road, where significant turning volumes exist, or where there is a history of turn-related crashes. Pedestrian and bicyclist safety and convenience should also be considered when adding turn lanes at an intersection.



Example of a right-turn lane.

→ For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures.

Safe Roads for a Safer Future
Investment in roadway safety saves lives

Source: FHWA

http://safety.fhwa.dot.gov