# Install Two-Way Left-Turn Lane (TWLTL) on Four Lane Road



A TWLTL is a center lane on a four-lane undivided road that allows left turns from both directions, improving safety by separating turning vehicles from through traffic.

### Implementation Strategy

#### How and Where to Apply

- TWLTLs are intended to reduce midblock conflicts by providing a dedicated lane for left-turning vehicles on four-lane undivided roads.
- They can be considered where leftturn volumes are high, especially on corridors with frequent driveways or minor street intersections.
- FHWA guidance recommends TWLTLs in locations where a center turn lane would improve safety and reduce crash frequency.

Use in a Safe System Approach STOP AHEAD pavement markings are a good candidate treatment for implementing the SSA principle of redundancy. They complement other treatments designed to increase the conspicuity of STOP signs and support the separation of different road users in time.

#### **Key Stakeholders**

State and local transportation agencies

Traffic engineers and roadway designers

#### **Proactive Implementation**

TWLTLs can be applied proactively by identifying corridors with midblock turning conflicts, crash clusters, and high driveway density. They are commonly implemented during corridor restriping or resurfacing projects where widening is not feasible but safety and multimodal improvements are needed.

#### Countermeasure Overview

Objective: Keep vehicles from encroaching into opposite lane Strategy: Provide center two-way left-turn lanes for four- and twolane roads

#### **Selected Related Countermeasures**

CM1

Access management

CM2

Raised medians and turn bays

СМЗ

Road diets with multimodal features

**Cost:** \$ (Moderate to High)

Service Life: 20 years

**Benefit-Cost Ratio:** 

# Targeted Solution



Lack of separation between opposing traffic



- Head-on
- Rear-end
- /PE Sideswipe



Not specified



Urban

## Safety Linkage



Head-on



Safer Infrastructure



Safe Roads



Tier 4



Reduces total crashes<sup>1</sup>

<sup>1</sup> CMF ID: 10375



#### Resources

- FHWA Proven Safety Countermeasures
- FHWA Highway Safety Programs

