

## Proposed Restricted Crossing U-turn (RCUT)

### *An innovative intersection design proposed to improve safety and mobility on US 77*

TxDOT is developing plans to improve US 77 from FM 2440 in Giddings to SH 21 in Lee County, Texas. Included in these plans, TxDOT is proposing a restricted crossing U-turn (RCUTs) at US 77 and CR 114.

### Why is TxDOT proposing this design?

A Restricted Crossing U-turn is an innovative intersection design to improve safety. Turning movements for drivers entering or crossing US 77 are modified to reduce conflict points. The design simplifies a driver's decision-making as each driver is only required to look at one direction of traffic at a time.

A conventional intersection on a four-lane highway has 42 conflict points, which could lead to crashes, especially from those attempting to cross the highway or turn left onto the highway. The RCUT intersection reduces the number and type of conflict points, reducing crash potential.

### How would it work?

Drivers on CR 114 would now turn right onto US 77 and use a new strategically placed U-turn to continue their movement through to the cross street or left onto US 77. Although the travel distance for through cross-street traffic increases, travel times decrease due to improved operations.

