



Intersections are listed as a primary emphasis area in Arkansas' 2017 Strategic Highway Safety Plan (SHSP). Job 090445 will construct a rural roundabout at the intersection of Highways 12 and 43 in Benton County.

Why does this project exist?

- 1 fatal and 3 serious injury crashes at this intersection during the study period.
- 50 percent of the collisions were angle crashes (angle crashes have a greater potential for serious injury).
- 6 crashes (4 angle) since all-way stop was installed (April 7, 2015)

What is the purpose of this project?

- The purpose of this project is to reduce fatal and serious injury crashes at this intersection.

Why is a roundabout proposed?

- Roundabouts reduce the types of crashes where people are seriously injured or killed by 78 to 82 percent .
- Roundabouts are one of the Federal Highway Administration's proven safety countermeasures.
- Roundabouts reduce conflict points (32 conflict points in a conventional intersection, while only 8 in a roundabout).
- Current configuration of an all-way stop on a rural highway is contrary to driver expectancy of not having to stop on a rural section of highway.

Roundabouts are also Efficient

- Roundabouts calm traffic and reduce speed, yet are more efficient than a stop-controlled intersection.
- Motorist delay at a rural roundabout should be minimal, and often, yielding will not be necessary.

Previous Improvements at this Intersection

- In 2009, signing and pavement modifications were made at this intersection.
- In 2010, this intersection was found to have insufficient traffic volumes to meet warrants for all-way stop control. Sign improvements were recommended.
- In 2012, further sign and pavement marking adjustments were recommended. An all-way stop was still not warranted.
- In 2014, a study recommended converting this intersection to an all-way, stop-controlled intersection.

The Arkansas Department of Transportation (ARDOT) will conduct a public involvement meeting to discuss the proposed construction of a rural roundabout at the intersection of Hwy. 12 and Hwy. 43 in Benton County.

This will be an "open house" meeting with no formal presentations. The public is invited to visit anytime during the scheduled hours to view exhibits, ask questions, and offer comments.

Anyone needing project information or special accommodations under the Americans with Disabilities Act (ADA) is encouraged to contact: Ruby Jordan-Johnson

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Hearing or speech impaired, please contact the Arkansas Relay System at (Voice/TTY 711). Requests should be made at least four days prior to the public meeting.

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