The DDI can accommodate more left-turn movements both onto and off of the right side of the road to continue on Roe Avenue. Advantages of the DDI include:

- The DDI can accommodate more left-turn movements both onto and off of I-435 thereby improving the efficiency of the interchange.
- The DDI reduces the total conflict points inherent to a traditional diamond interchange and increases safety.
- The DDI shortens the overall traffic signal cycle length reducing delays and increasing safety and capacity.
- The DDI reduces the construction cost and construction time by reducing the width of the bridge needed to accommodate left turns.

The main disadvantage of a DDI is that it is still a relatively new interchange type and drivers in the area may not be familiar with it. DDI bridges are quickly catching on across the country due to their safety and cost benefits. The nation’s first DDI was completed in 2009 in Springfield, Missouri and several more have been built since then.

DDIs are being introduced to the traveling public at several locations in the Kansas City Metro Area. A DDI at I-35 and Homestead Lane in Johnson County was completed in late fall 2013. DDIs have also opened at I-435 and Front Street and at M-150 and Botts Road on the Missouri side of the Kansas City Metro Area.

For Ongoing Project Information:

- Real-Time Traffic Updates: www.kcscout.net
- Project Updates and Traffic Alert Information: www.ksdot.org/kcmetro
- Follow: @KansasCityKDOT
- Like: Kansas Department of Transportation - Northeast Kansas
- Questions or comments, contact: Kimberly Qualls KDOT Public Affairs Manager 785-296-0192 kqualls@ksdot.org
**Phase 1**  
April - November 2014

**Scheduled Work**
- Construct temporary connection from the eastbound collector-distributor road to I-435 between Nall Avenue and Roe Avenue
- Construct retaining wall extension along the westbound collector-distributor road
- Demolish existing Roe Avenue bridges
- Begin construction of Roe Avenue bridges, eastbound collector-distributor road retaining wall and shoulder replacements along I-435

**Traffic Impacts**
- Short-term closure of westbound collector-distributor road to extend retaining wall (9-day maximum closure)
- Short-term closure of I-435 during bridge demolition (night work limited to one weekend)
- Short-term closure of I-435 for new bridge girder placement (night work limited to 2 weekends)
- Eastbound collector-distributor road to use temporary connection between Nall Avenue and Roe Avenue. This temporary connection will allow eastbound travelers to go from Nall Avenue to I-435 while the retaining wall on the eastbound collector-distributor road is replaced
- Closure of Roe Avenue to through traffic (154-day maximum closure). Right turns allowed at ramps except during Phase 2

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**Phase 2**  
April - November 2014

**Scheduled Work**
- Complete construction of Roe Avenue bridges, ramps, Roe Avenue roadway approaches and sidewalks

**Traffic Impacts**
- Short-term closure of Roe Avenue from 109th Street to 107th Street (35-day maximum closure within the 154-day closure timeframe)