

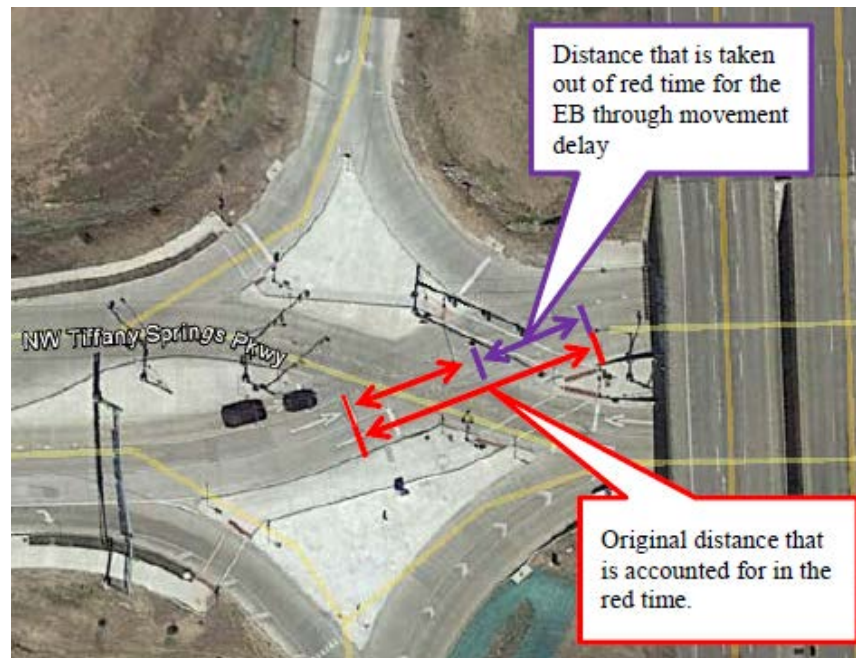


Projects First-Round Winner
Innovations Challenge

April 2017

Prepared by Transportation Planning
Missouri Department of Transportation

DDI Signal Timing



Description

Diverging Diamond Interchange Signal Timing improves the timing of a diverging diamond interchange by offsetting the red times for signals by modifying the controller statements. This modification to the controller allows the westbound traffic to start its progression sooner than the vehicles on the off ramp making the southbound left into the eastbound lanes. By decreasing the red time for the westbound movement, motorists are able to start sooner. Then conversely as the signal goes to red, the time to change is staggered. The photo demonstrates in a traffic model.

Benefit

Improving the signal timing will reduce travel delays for our customers. When you reduce delays, it saves motorists money and improves their perceptions of MoDOT. DDI Signal Timing also improves mobility and safety. The increased green time for through movements will allow more vehicles to get through the intersection quicker, allowing less time for distracted driving.

Materials and Labor

10 minutes staff time with no material costs.

For More Information Contact:

Adam Wood at Adam.Wood@modot.mo.gov or (816) 803-4522.

Additional photos or videos can be seen by accessing the Innovations Challenge SharePoint page at: <http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>.