Project #12413 – Evaluation of Diverging Diamond Interchange (DDI) for Alabama, Phase I

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The goal of this research is to develop guidance for ALDOT to establish the locations where a DDI would be beneficial. The University of Alabama (UA) will assist the University of Alabama – Huntsville (UAH) to perform the proposed research. The objective of this project is to assist on tasks associated with DDI project funded by ALDOT. This will require the subcontractor to run simulations and evaluate alternatives.

The Diverging Diamond Interchange (DDI), or Double Crossover Diamond (DCD), is a form of interchange design upon which the intersections of the cross-over road and the entrance/exit ramps are constructed to remove all left turns. The benefits of the interchange design stem from the removal of left-turns at the entrance/exit ramp signals, thus reducing the number of phases required improving traffic flow and reducing the number of conflict points improving safety.

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