

PURPOSE AND NEED

The purpose of the Bowers Hill Interchange Improvements Study is to address current operational deficiencies, such as inefficient access configurations, while improving safety within weaving and transition areas, at the junction of Interstate 664, Interstate 264, Interstate 64, U.S. Route 460, U.S. Route 58, U.S. Route 13, and VA Route 191. This study will also address current and future travel demand within the interchange.

The following needs have been identified for the study:

- Operational Deficiencies – current access configurations within the interchange create inefficient weave conditions and traffic operations affecting route continuity and transitions between intended routes;
- Safety – current conditions contribute to increased side-swipe crashes within the weaving area between the access and departure ramps of U.S. Route 460 and those of Interstate 264, as well as rear-end crashes along the entire study area corridor of Interstate 664 and Interstate 64; and
- Congestion and Capacity – current and predicted future travel demand exceed interchange capacity which causes congestion and negatively affects travel times.

These needs led to the development of the preliminary alternative concepts presented at this meeting and will be used to evaluate those alternatives that advance for study.

The Purpose and Need received Agency concurrence on July 11, 2018.