A diverging diamond interchange (DDI) is unique from a standard diamond interchange in that traffic on the minor road (SR 322) crosses to the left side of the road at signalized intersections prior to the major road (SR 222). This allows for direct left turns from the SR 222 ramps. Traffic on the minor road (SR 322) crosses back to the right side of the road at the far side signalized intersection.

The DDI configuration has several safety and operational advantages over a standard diamond interchange. Due to the crossover path along the minor road, there are fewer crossing (and total) conflict points than a standard diamond interchange which reduces the crash rate and potential for high severity crashes. The configuration of the DDI only requires 2 phases per signal cycle versus 3 phases in a standard diamond interchange. This allows the DDI to provide more green time to traffic which leads to an increase in overall capacity and can mitigate the potential for congestion.