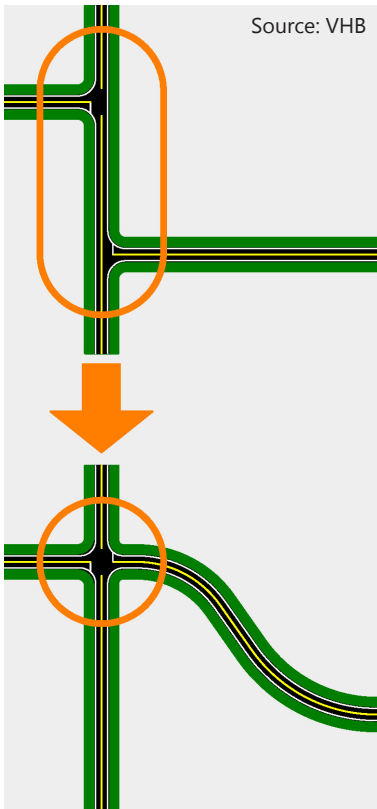




Convert Two Offset T-Intersections to a Single Four-Legged Intersection

Realignment of one or both minor road approaches such that both approaches intersect the major road at a single point.



Two T-intersections can be converted to a single four-legged intersection by realigning at least one leg, as illustrated above.

Targeted Crash Types

- Opposing left turn
- Rear-end (major road)
- Head-on (among opposing left turns)

Problems Addressed

- Poor operational performance
- Excessive intersection conflicts

Conditions Addressed

- High minor road through volume.
- Crash history or observed conflicts due to insufficient spacing between two adjacent T-intersections.
- Prevalence of rear-end crashes on major road, specifically ones involving “through” movements from the offset minor roads.

Considerations

- Additional right-of-way may be needed for each realigned approach.
- If the minor road through volumes are low, the intersection may be safer if left as two T-intersections.
- Certain combinations of factors may make offset T-intersections preferred over a single four-legged intersection.
- Implement appropriate traffic control devices for the new configuration.

Select Examples

[Bear Meadows Rd. & US 322, Boalsburg, PA](#)

[Ohio 124 & Pea Ridge Rd., Hillsboro, OH](#)

Other Resources

[NCHRP 500 Volume 5: A Guide for Addressing Unsignalized Intersections](#)

[Access Management Manual, Transportation Research Board](#)

