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.

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

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.

Problems Addressed
- Poor operational performance
- Excessive intersection conflicts

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