



Install a Traffic Control Signal

Any highway traffic signal by which traffic is alternately directed to stop and permitted to proceed. A signal may be considered when one or more of the nine warrants specified in the MUTCD are satisfied.



Source: VHB

A traffic signal controls the vehicular movements at this T-intersection.



Source: VHB

Traffic signals can be warranted by higher traffic volumes and proximity to a school crossing.



Source: VHB

This traffic signal offers a protected phase for left turns from the major road.

Targeted Crash Types

- Right-angle
- Pedestrian
- Opposing left turn

Problems Addressed

- Inappropriate intersection traffic control
- Excessive intersection conflicts
- Poor operational performance
- Vehicle conflicts with non-motorists

Conditions Addressed

- Crash history or observed conflicts between turning vehicles and opposing through vehicles.
- Where one or more of the nine MUTCD warrants for a traffic signal are met ([Section 4C.02](#)).

Considerations

- Conduct a traffic control needs study and check warrants in the MUTCD ([Section 4C.01](#)).
- Design for all types of users at the intersection.
- Inform business and property owners near the intersection early in the process and ensure proper design of access points to the properties.
- May need to widen the intersection to provide left-turn lanes for signalization.
- Consider a roundabout as an alternative to installing a traffic signal.

Industry Standard

MUTCD
[Section 4C.01: Studies and Factors for Justifying Traffic Control Signals](#)

Other Resources

[Signalized Intersections: Informational Guide, FHWA](#)
[Traffic Signals, PEDSAFE](#)

Select Examples

[Babylon Rd. & Limekiln Pk., Maple Glen, PA](#)
[Covered Bridge Rd. & Buffalo Rd., Clayton, NC](#)
[21st St. & Graham Ave., Windber, PA](#)

