

2016 Innovative Safety Program

Information on increasing traffic signal operations or visibility

- **General information**
 - Federal Highway Administration's [Traffic Signal Timing & Operations Strategies](#) Web page
 - WSDOT [Traffic Signals and Signal Coordination \(Timing\)](#) Web page
 - [2009 Manual on Uniform Traffic Control Devices \(with revisions 1 and 2 incorporated\)](#)
 - [Washington State Modifications to the 2009 MUTCD \(WAC 468-95\)](#)
 - [Guidelines for Determining Traffic Signal Change and Clearance Intervals](#) (a proposed recommended practice), Institute of Transportation Engineers, 2015

- Convert permitted phasing to protected or protected/permitted
- Convert permitted phasing to flashing yellow arrow
 - [The Flashing Yellow Arrow Sequence](#) diagram by Washington State Department of Transportation
- Update signal timing/coordination along the corridor
 - Adaptive signal control technology (ASCT) section on [WSDOT Local Programs' website](#)
- Install countdown pedestrian signals
 - [Chapter 4E](#) of the *2009 Manual on Uniform Traffic Control Devices (with revisions 1 and 2 incorporated)*
- Add leading pedestrian intervals
 - *Urban Street Design Guide*, [Leading Pedestrian Interval section](#), National Association of City Transportation Officials, 2013
- Add backplates (retroreflective) to signal heads
- Add retroreflective tape to existing backplates
 - Federal Highway Administration's [Proven Safety Countermeasures for Backplates with Retroreflective Borders](#)
- Upgrade from 8 inch to 12 inch signal lenses