



synectics
SAFETY SPECIALISTS

The Signalized Intersection Guidelines are an informational guide for medium and high volume signalized intersections. This guide provides a single, comprehensive document with methods for evaluating the safety and operations of high volume signalized intersections and tools to remedy deficiencies. Each treatment includes a discussion of safety, operational performance, multi-modal issues, physical and economic factors that a practitioner should consider. For this project, Synectics was teamed with Kittelson and Associates and CH2M Hill.



Synectics was responsible for the safety portion of the guide. Four main areas of contribution were as follows:

- a discussion of the main safety problems experienced at signalized intersections;
- a discussion of vulnerable road users and their unique needs;
- a comprehensive process for diagnosing safety problems at a signalized intersection, using a numerical method; and
- safety write ups for conventional and unconventional treatments, including collision modification factors, research findings and advantages/ disadvantages.