



# Traffic Signal Design Manual

ORIGINATOR Director, Bureau of Highway Operations		2-1-1
CHAPTER 2	Signal Investigation Study	
SECTION 1	General	
SUBJECT 1	Format	

All supporting discussion, information, and evaluation worksheets **shall** be presented in a standard format. This format will create uniformity in the presentation/review of the Signal Investigation Study for the intersection being evaluated.

The format of the signal investigation study is detailed below:

- I. The cover letter **shall** include:
  - a recommendation and brief discussion of the study,
  - any/all exceptions to the standards referenced in this manual and the *WisMUTCD*,
  - a discussion of remedial actions tried, or, if none, explanation of need for signal,
  - related agreements (i.e. railroad, maintenance),
  - formal correspondence (letters from governmental officials, elected or non-elected, brief mention of local petitions, if any),
  - the local jurisdiction's recommendation and why rural warrants were used (if used).
- II. DT1199 Traffic Control Signal Approval Request **shall** be completed by the Region and submitted with the investigation study to Central Office.
- III. Analysis or signal investigation study stating reason for recommendation, to include statements regarding:
  - a. Existing Physical Conditions and Control Devices
  - b. Traffic Conditions (see Subject 2-2-1)
  - c. Warrants met
  - d. Crash History (see Subject 2-2-2)
- IV. Appendices:
  - a. Intersection Location Map

- b. Hourly Intersection Turning Movement Traffic Volume Counts
- c. Signal Warrant Analysis Worksheets (see Subject 2-3-1)
- d. Intersection Plan Sheet
- e. 3-yr Intersection Crash History Data Extract
  - Crash Reports (optional, pages 1 & 3 of the MV4000 are typically the most relevant)
  - Collision Diagram (optional)