



Traffic Signal Design Manual

ORIGINATOR Director, Bureau of Highway Operations		5-1-1
CHAPTER 5	Signal Plan Format	
SECTION 1	Permanent Signal Plan Format	
SUBJECT 1	General	

Preparation of signal plans involves preparing a set of detailed drawings showing location, geometric configuration, quantities, and details of work to be performed on a particular project. The objective of this section is to present standards that will meet the requirements of the Department.

Preparation of traffic signal plan sheets **shall** follow base sheets that have been developed in the FDM Chapter 15, Plan Preparation. The signal plan sheet set **shall** be in one design file. The number and type of sheets are dependent on the type of traffic signal installation. As a minimum, the signal plan set **shall** include:

1. Plan Sheet(s)
2. Sequence of Operations Sheet
3. Cable routing sheet

And if applicable:

1. Temporary signal plan
2. Temporary Sequence of Operations Sheet
3. Miscellaneous quantities for electrical items
4. Engineering estimate for electrical items
5. Special provisions pertaining to electrical items
6. Signal Removal plans
7. Details of non-standard items
8. List of SDDs, general construction notes, and construction details pertaining to electrical items

To obtain a signal number (e.g., S-1004), the Regional Traffic Unit **shall** contact the Bureau of Highway Operations. In rare cases, a T-number *may* be assigned instead of an S-number due to the temporary nature of the signal.

The Sequence of Operations Sheet comes in two variations: 1) a typical 8-phase operation; and 2) a 24-interval pretimed operation.

Consultants' logos **shall not** be included on the signal plans. These two sheets, along with the plan sheet and cell libraries, are available from the Department for CADD usage.

Consultant prepared plans **shall** be signed and sealed by a Professional Engineer registered in Wisconsin and submitted to the Regional Traffic Engineer for approval. Electronic MicroStation files **shall** be submitted in accordance with the *FDM*.

An original, 11"X17" signal plan signed by the Regional Traffic Engineer Professional Engineer (refer to Wis. State Statute 443) or delegate, needs to be submitted by the Regions to Central Office, Bureau of Highway Operations for all new signal plans and for signal plan revisions.

All signal plan sets, including those in a PS&E submittal or permit application, must be submitted to the Regional Traffic Unit for approval. If the signal plan is part of a PS&E, the signal plan must be submitted to the Region (timeframe) prior to the draft PS&E date. Upon approval by the Regional Traffic Engineer, it is the responsibility of the Region to submit the signal plan to Central Office Traffic for approval. If a signal plan is to be included in a permit application, the permit coordinator will submit the signal plan to the Regional Traffic Engineer for approval. Upon approval by the Region, it is the responsibility of the Region to submit the signal plan to Central Office Traffic for approval.