



Application of Standard Detail Drawings

July 12, 1999

Definition

Standard detail drawings (SDDs) are completed designs of highway elements common to many highway projects. Their purpose is to simplify the design process and standardize the design of features found on many highway improvement projects.

Content

Each standard detail drawing is a two-page document. The first page is the drawing itself. The following page(s) on the back of each drawing is a set of designer's notes for the drawing. These notes provide the following information to help designers use the drawing correctly.

Designer's Notes Contents

Item	Description
References	This information directs designers to sources that provide more detailed guidance on the subject of the drawing.
Bid Items Associated With This Drawing	This is a list of bid items that are likely to be needed if the drawing is called for in a plan. Not every bid item is needed every time but designers should consider the need for these items when they prepare their estimates.
STSPs Associated With This Drawing	This is a list of the standard contract language that is likely to be needed if the drawing is called for in a plan. Again, not every STSP is needed every time but designers should consider the need for each listed STSP as they prepare their project contracts.
Other SDDs Associated With This Drawing	This is a list of other SDDs that may be needed to supplement the subject drawing.
Design Notes	This is specific guidance on when and how to use the subject drawing properly.
Contact Person	This is the person who created/modified the drawing. They are most knowledgeable about the drawing and all questions and comments about the drawing should be directed to them. They are also the only ones who can authorize alterations to an SDD to meet the special needs of a particular project.

Revised SDDs

SDDs are intended for application statewide. The process for developing or revising an SDD involves much research as well as coordination with numerous offices both inside and outside of the department. Unauthorized changes to SDDs may lead to unsound designs and violations of agreements with other agencies. Therefore, they should be used without modification.

In certain rare cases there may be a WisDOT highway improvement project whose special needs conflict with the content of an SDD. In these situations the designer shall follow the process below to obtain a copy of an SDD for project-specific revisions and use as a plan insert drawing.

Coordinate with contact person. The designer shall discuss the project with the person listed on the back of the SDD. They should explain why the SDD does not work in the given project and how they propose to revise the SDD.

Proposal review. The contact person will evaluate the designer's proposal. If the proposal is valid then the contact person will request the Manual Development Engineer in the Bureau of Highway Development (BHD) to release a copy of the SDD to the designer for revision and incorporation into a plan.

File transfer. BHD staff will make an electronic copy of the SDD and attach it to an e-mail message to the appropriate designer.

This process is intended for one-time revisions to meet the needs of specific individual projects. SDDs revised to meet the needs of one project should not be used on any other project without again conferring with the SDD contact person.

Consultants may use the same procedure to obtain electronic copies of SDDs. When they make their request they should provide the contact person with the following information:

- Desired units of measure (English or metric)
- Desired system (DOS or Unix)

Consultants are also advised that WisDOT can supply only Microstation type CADDs files. It is the consultant's responsibility to reformat these files so they can be used in another system.

Copies of SDDs

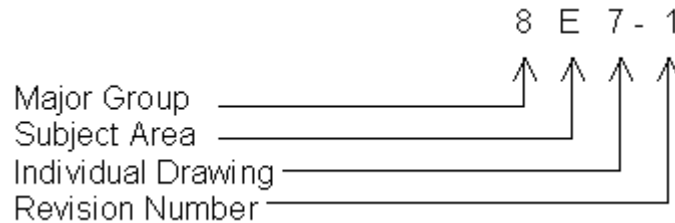
Local units of government and their consultants may obtain electronic copies of SDDs for projects that are not sponsored or administered by WisDOT. Call the Manual Development Engineer at (608) 266-8371 for more information.

Note: these requests shall be for only those SDDs needed for a specific project. Due to resource limitations the department cannot provide full sets of all electronic SDDs.

Numbering System for Standard Detail Drawings

September 30, 2008

Each Standard Detail Drawing (SDD) is assigned a number consisting of four elements as shown below:



Standard Detail Drawings are divided into major groupings such as Drainage, Geometric Design, Structures, etc. Each major group is assigned a number (Drainage is number 8), which is further divided into subject areas. Drainage, for example, has subject areas entitled "Manholes," "Inlets," "Erosion Control Devices," etc. Each of these subject areas is assigned a letter, with the first subject area assigned the letter A. "Erosion Control Devices" is the fifth subject area under Drainage and is assigned the letter E.

Individual SDDs are collected within the subject areas and are numbered consecutively beginning with the number 1. Thus the SDD entitled "Erosion Mat," which is the seventh drawing collected under the subject area "Erosion Control Devices" within the major grouping of Drainage, is numbered 8E7. A dash (-) followed by the number 1 is added to identify the original issue of an SDD (8E7-1). Revisions are numbered -2, -3, etc. When an SDD is over one page in length, a small "a," "b," "c," etc., is added after the revision number to indicate page numbers (e.g., 8E7-1a, 8E7-1b).