

MicroStation V8 Road Design Details

Design Manual
Chapter #1
General Information

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The Road Design Details are a collection of standard drawings that have been developed to aid the designer in the development of detailed design plans, and are maintained and distributed by the Methods Section of the Office of Design. Revisions to the Design Detail files are issued on six month increments, as necessary. If there are any questions concerning the Road Design Details, please contact the Methods Section, Office of Design.

The Design Detail files can be downloaded from the following web site:

<http://www.dot.state.ia.us/design/desdet.htm>

On the web site, the file links have been divided into English and Metric versions and also subdivided into topic categories. Each MicroStation file may contain from a few to possibly 25-30 models for separate tabs, typicals, standard notes, etc. Example:

- There are 12 files containing Tabulations, named e0100.dgn through e0112.dgn (english), or m0100.dgn through m0112.dgn (metric).
- There is 1 file containing Standard Notes, named e0200.dgn (english), or m0200.dgn (metric)
- There are 12 files containing Design Detail Sheets, named e0500.dgn through e0570.dgn (english), or m0500.dgn through m0570.dgn (metric)
- There are 9 files containing Typical Cross Sections, named e1000.dgn through e9000.dgn (english), or m1000.dgn through m9000.dgn (metric)

There are several models within each of the 34 english and 34 metric files listed above. Each model contains a single unique drawing for possible use in a plan set. The model names match the name of the "tab", "typical", etc., contained within the model, (example: *e0112-6A*), combined with an extension of the month and year the drawing was last revised, (example: *.0405 for April of 2005*), therefore the entire example model name would be *e0112-6A.0405*. The Design Detail drawings can easily be used as reference attachments to other files because each drawing in each model has a saved view name and has also been drawn near the XY coordinates of 0,0. Because of this, the drawings can also be easily placed as cells, if this is more convenient than a reference attachment.

All Design Detail files, (English and Metric), are maintained by the Office of Design Methods section, but the Metric files are not printed as sheets for a book. The web-site has links for both MicroStation and PDF files for all English and Metric versions of the Tabs, Typicals, Standard Notes, and other Design Details. The PDF files are available on the web-site for immediate viewing, but the MicroStation versions must be downloaded for viewing or use. Some of the PDF files may contain several design details, resembling a layout page in a book, and other PDF's may contain only one detail.