

Design Standards Letter

Letter Number: G-1995-07

Letter Date: 06/01/1995

Effective Date: 06/01/1995

Section/Plan No.: None

Subject: Metric Special Sheets

Body

Attached are copies of special sheets which have been converted to metric. This distribution includes 6 new drawings and revised drawing M-D-39A. Also included are four M-D-2BS sheets for your information.

A title sheet has been included. We suggest that these metric special sheets be kept with the metric standard plans in the binder that was provided earlier.

The title block was changed to match the metric standard plans. The title block includes space to allow for an engineer's seal to be added to the plans.

Hard conversion was used where possible. Anything formed or built in the field was hard converted (typically 1"=25 mm; 1'=0.3 m). Manufactured or precast items were soft converted.

The note sizes on all the drawings have been standardized. A note "ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED" has been included on all appropriate drawings.

The metric special sheets can be accessed on our CADD system under DESI, SPECSH_M.

Following is a description detailing each drawing.

M-D-39A Pavement Marking Details

Sheet 1 of 1.

The formula for "L" for 60 km/h (40 mph) was revised. It now matches the design manual.

Concrete Traffic Barrier, Modified Type C

Sheet 1 of 1

Hard converted. Metric reinforcing steel was used.

Highway Lighting - Power Supply Assembly - 240/120 Volt Service

Sheet 1 of 1

Combination of hard and soft conversions. AWG was hard converted to mm². Nominal electrical conduit sizes were assigned by National Electrical Manufacturers Association. Steel shapes are according to Draft Metric Steel Manual.

Highway Lighting - Power Supply Assembly - 480 and 240/120 Volt Service

Sheet 1 of 1

Combination of hard and soft conversions. AWG was hard converted to mm². Nominal electrical conduit sizes were assigned by National Electrical Manufacturers Association. Steel Shapes are according to Draft Metric Steel Manual.

Highway Lighting - Base Mounted Control Station - 240 Volt - 4 Circuit

Sheet 1 of 1

Combination of hard and soft conversions. AWG was hard converted to mm². Nominal electrical conduit sizes were assigned by National Electrical Manufacturers Association. Bolts were soft converted.

Highway Lighting - Base Mounted control Station - 480 Volt - 4 Circuit

Sheet 1 of 1

Combination of hard and soft conversions. AWG was hard converted to mm². Nominal electrical conduit sizes were assigned by National Electrical Manufacturers Association. Bolts were soft converted.

Pull Boxes

Sheet 1 of 1

Soft converted with dimensions rounded to nearest 5mm. AWG was hard converted to mm². Metric reinforcing steel was used. Preformed Pull Box Minimum Dimensions were soft converted

The summary of quantities sheets are not special sheets but are included here for your information. These are available on DESI, FORMAT_M.

M-D-2BS, Summary of Quantities

Sheet 1 of 3

Sign sizes were hard converted (1"=25 mm). The text of signs will remain English.

Sheet 2 of 3

Sign sizes were hard converted (1"=25mm). The text of signs will remain English.

Sheet 3 of 3

Dimensions were hard converted (1"=25 mm). A metric bid item number was used for Pavement Edge Treatment.

M-D-2BS, Summary of Quantities

This sheet combines the above three sheets. Sign Sizes and other dimensions were hard converted (1"=25 mm). The text of signs will remain English. A metric bid item number was used for Pavement Edge Treatment.

tea/dts

Attachments