Technote:

Plot Rotation

Rotating a plot is an easy, two-step process using the *MFTR* program. The first step gives you the size, and the second step does the rotation and translation. A common error is to provide only a rotation angle, in effect rotating the plot off the page.

Procedure:

Step 1:
*I*f the size of the plot is unknown, the following command can be used to find the size of the metafile:

mftr –wstat check

Step 2:
*T*he rotation angle is specified by giving an origin and a counter-clockwise angle in degrees. The translation option moves the plot back onto the page and must be specified in meters. The amount of translation needed depends on the plot size. To rotate a plot by 90 degrees clockwise, and translate back onto the page, simply add the following options to *MFTR*:

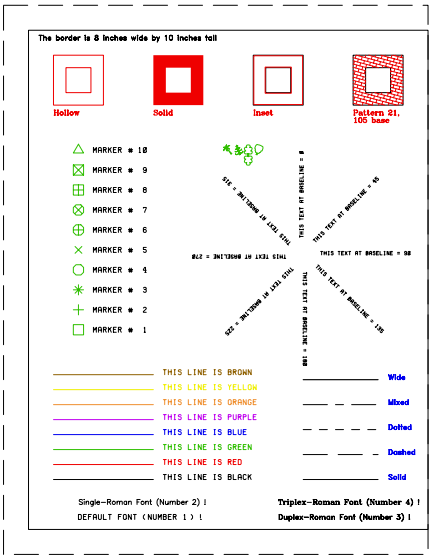
–r–90,0,0 –x–.2286,0

The translation offset is calculated by adding the margin (.0127) and right coordinate value (.2159) to get the sum for the translation. Note that both the rotation and the translation remain in effect for all subsequent metafiles.

To check the output, the –wstat option may be used. This will show you if the plot has been rotated and translated properly. The full command is:

mftr –wstat –r–90,0,0 –x–.2286,0 check

The following figure is the original metafile, plotted with no rotation nor translation, on an A-sized sheet (8.5" x 11") represented by the dashed line:



©1999 by TECHBASE International

Figure 1 below shows the original A-size sheet with the rotated plot. Note that the rotation has moved the plot off the page.

Figure 1

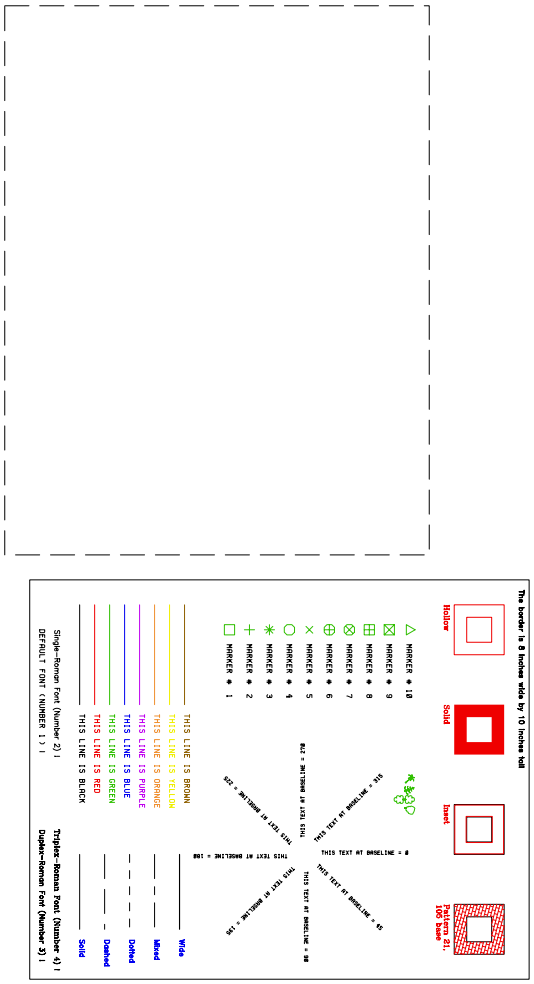


Figure 2

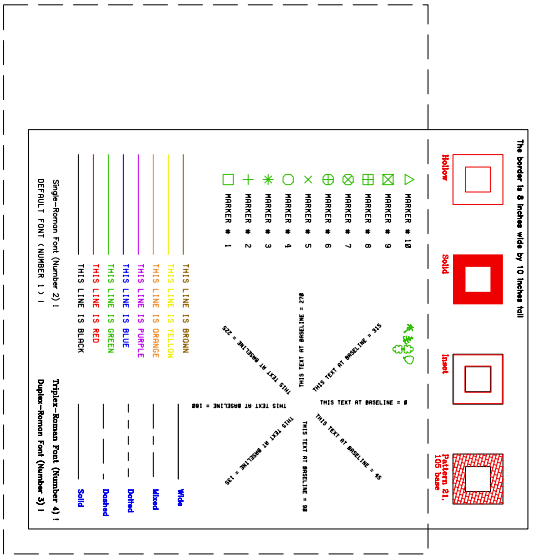


Figure 2 shows the rotation and the translation together on an A-size sheet.

For more information on *MFTR*, see **"mftr – displays graphic output files" on page 1gr-31** and the **"Technote: Metafile Translation Options" on May, 1993**

 © 1999 TECHBASE International