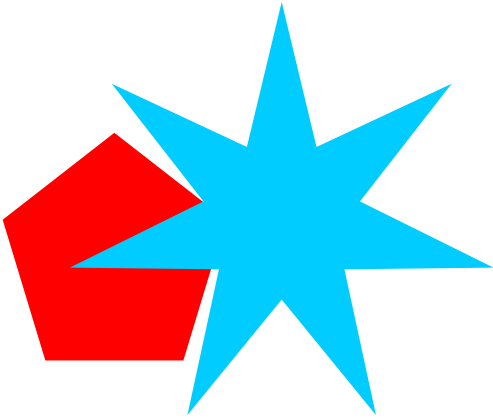The graphic!

CorelDRAW!, Contours, Summa's Opos and Winplot.

Our graphic, Let's add an outline and a contour cut line. We'll also create a .128 bleed or overprint.

Select everything and group it. Bring up Corel's contour dialog and set it for ".24 outside" black in this example establishing small over print. Our actual contour will be .128" or an 1/8 of an inch by the time we are finished.

Select the black contour, right click and "break contour apart" with just the black contour selected go back to the contour dialog and this time choose "inside" and set it .12 click "apply" (here shown in grey)
This will be our cut.

.25 Contour Added
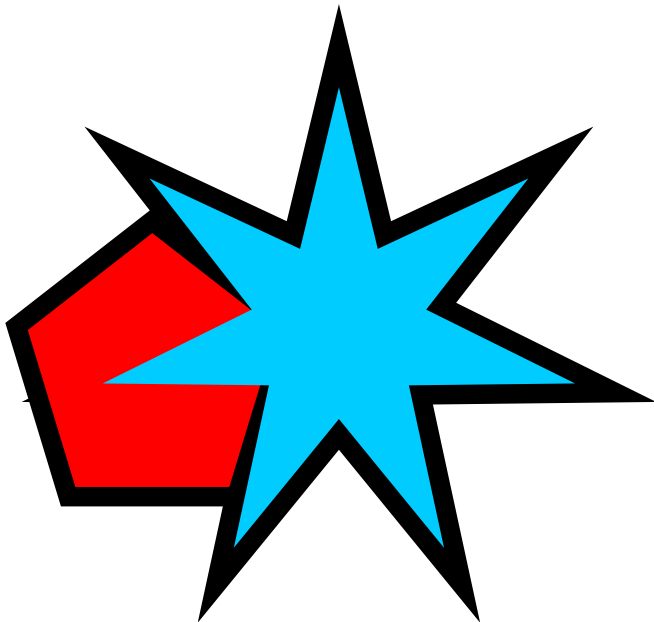
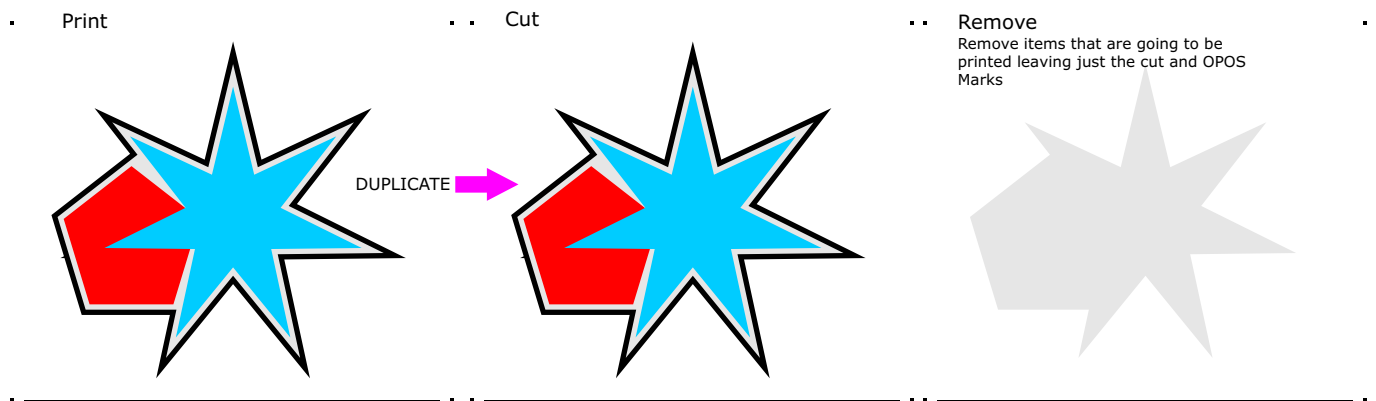.12 Contour Added to inside of the Black Contour, this will be our cut.
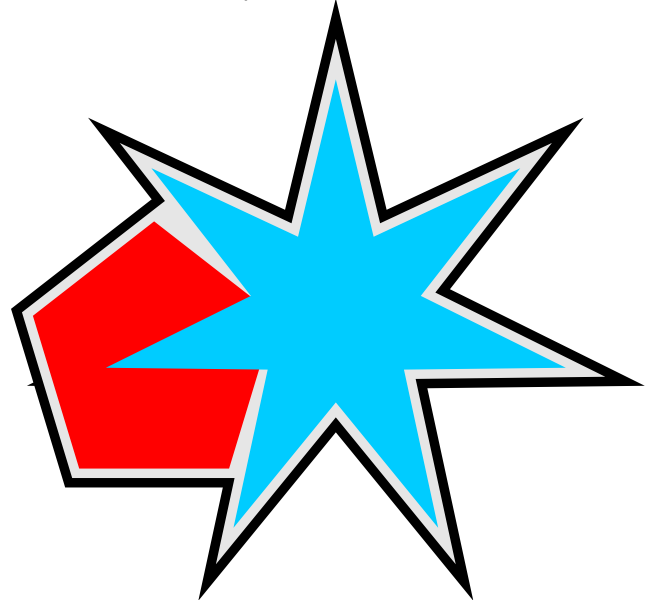
Setting OPOS Marks

OPOS marks can be set manually ugh!... or you can download Summa's Macro either way what it does - it sets 4 (or more) perfect squares just past the extent of your design on all 4 corners that which the optical sensor, on your cutter, can find and align the print for cutting.   The OPOS Marks (squares) can be anywhere from 1.2mm to 3mm that's .05" and .118"

Once you have your marks set go ahead and select everything including the OPOS Marks, Control +D to duplicate....we'll use one to PRINT and one to CUT. Leave the print one alone for now, zoom in on our cut version and remove everything EXCEPT THE CONTOUR (GREY) AND THE OPOS MARKS. This is your Contour Cut and we'll use it to cut the Contour in Winplot. Select both OPOS Marks and Grey contour and make 'em black or any color for that matter. Choosing the Contour Color from the Summa Palette isn't necessary Export this as .eps or click the shortcut in Corel to send it when we are ready.

OPOS Marks set, Select graphic and marks and duplicate

Print

Cut

DUPLICATE

Remove

Remove items that are going to be printed leaving just the cut and OPOS Marks

Finished Cut

Select it all, OPOS Marks and cut line convert to a single color. This gets exported & brought into Winplot
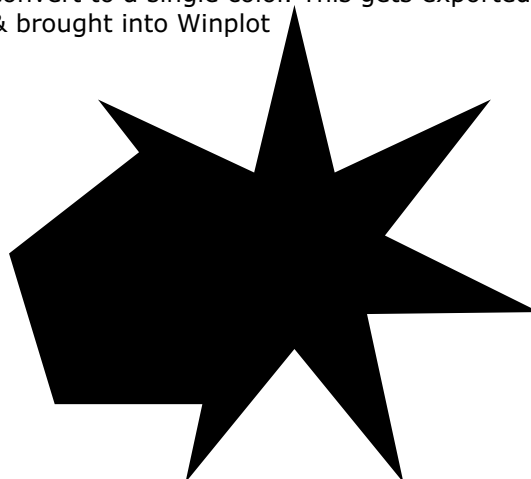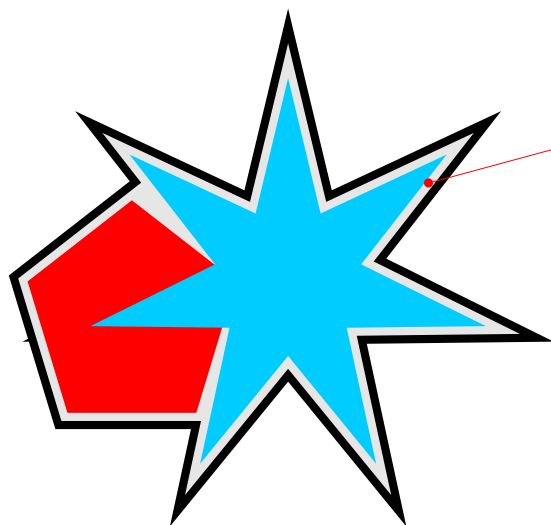
Back to the Print

Zoom in and remove the grey contour...sometimes I like to keep it there, just in case
I want to resize the graphic at a later time... you can do that by choosing no fill and
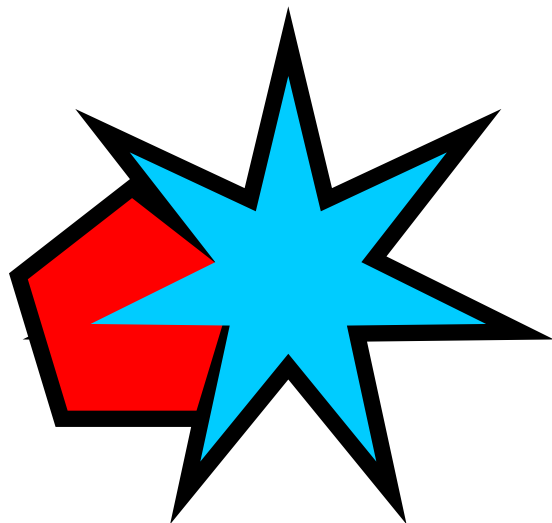no stroke. Once you've taken care of the cut the PRINT part is ready.

SELECT THE GRAPHIC AND ALL THE OPOS Marks, export to file - .tiff .eps .jpg etc.
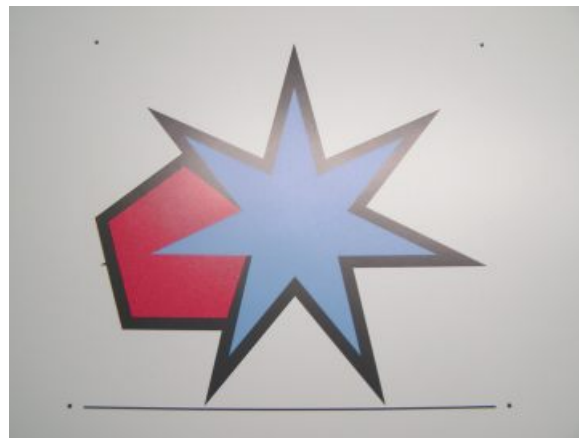
Print

Remove grey cut.

Ready to Print

Select both your graphic and the OPOS Marks
and send them off to your printer

Our printed graphic OPOS Marks & All.

Using Winplot

Get your print and load it into your OPOS Equipped plotter

Bring your cut file into Winplot, either through Summa's Macro or by dropping the .eps file into an already running Winplot

Note orientation here. You can rotate the graphic in Corel anyway you want but you must be sure the cut file is also rotated in Winplot. See samples on the last 2 pages.
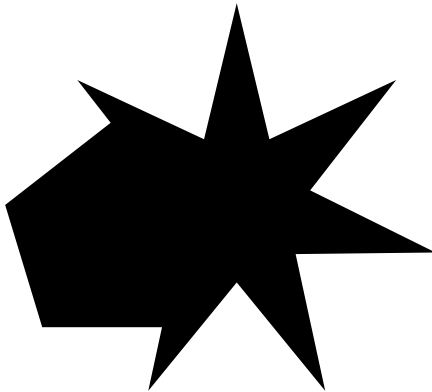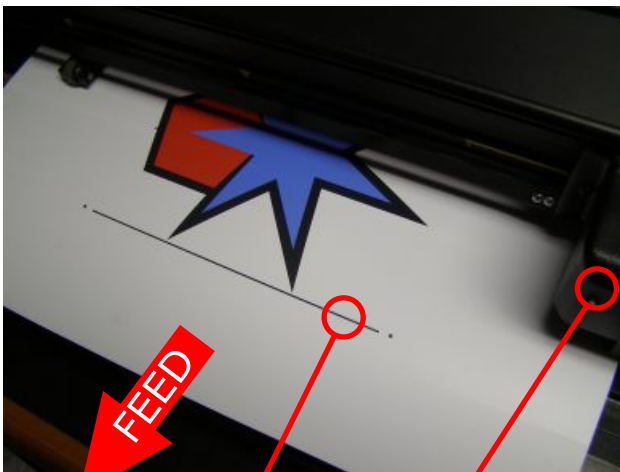
When you are ready click the OPOS button in Winplot
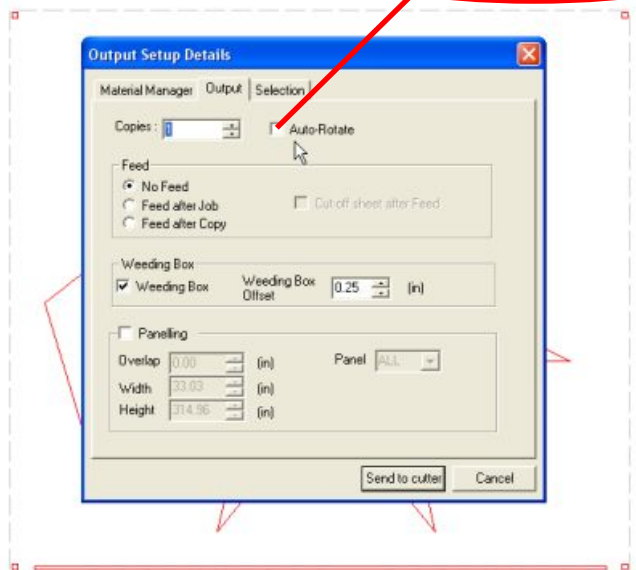
. Cut .
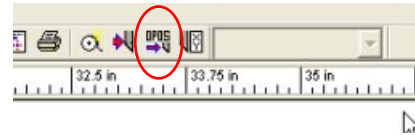
The Graphic inside Winplot
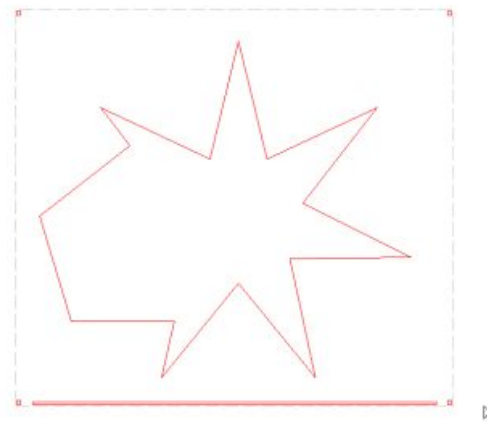
Uncheck Auto Rotate

Plotter with loaded print, note orientation.

FEED
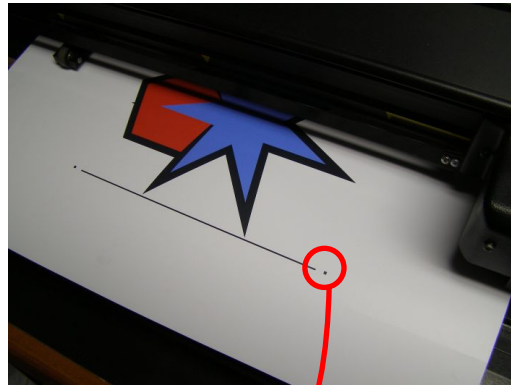
Cutter Head

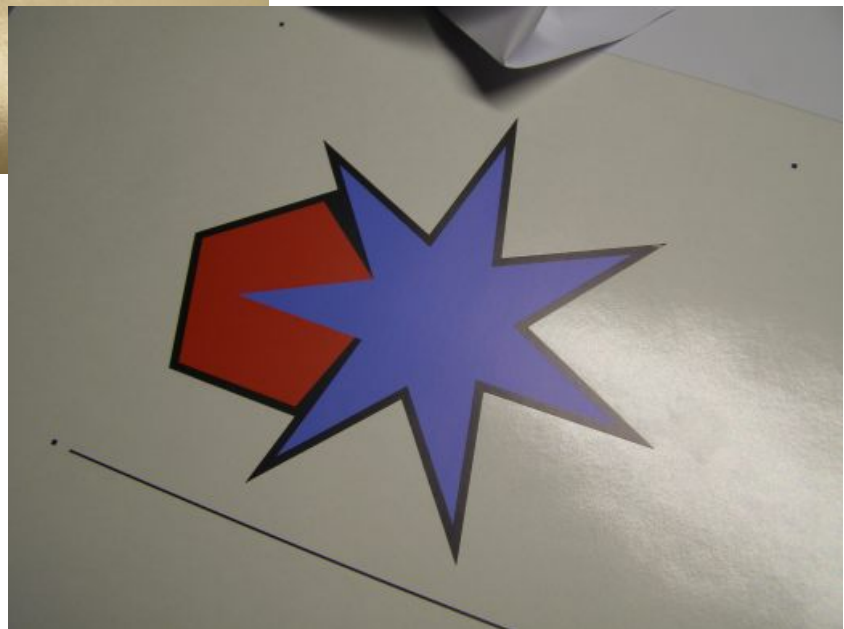The black bar helps align the print initially

Click send to cutter, the display on the cutter will read -
"SET SENSOR ABOVE FIRST MARKER" using the arrow keys on the plotters keypad set
the OPOS over the first marker - watch the video here
Get both the .cdr and .eps here

Use arrows on keypad to position
OPOS head over first mark.

DONE.

Orientations and Winplot examples
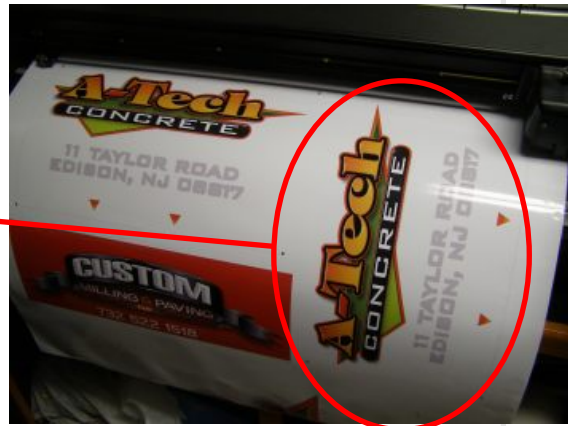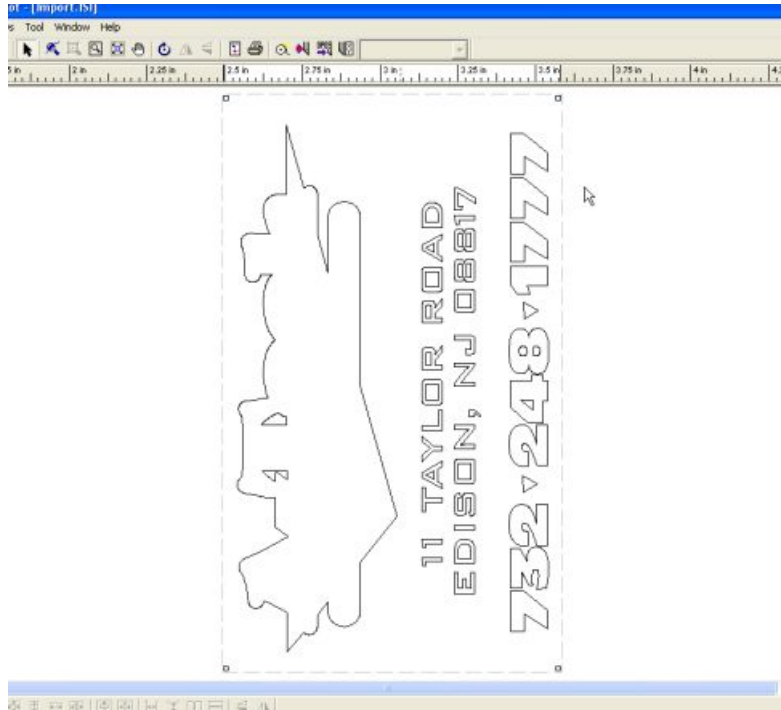
In CorelDRAW!

Print   Cut

Cut (rotated correctly for circled print)

Ganged Prints loaded in the machine

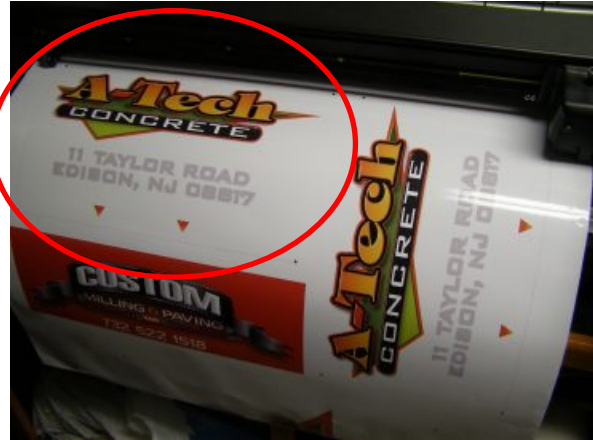In Winplot (rotated correctly for circled print)

Always Turn off Auto Rotate in Winplot when contour cutting.
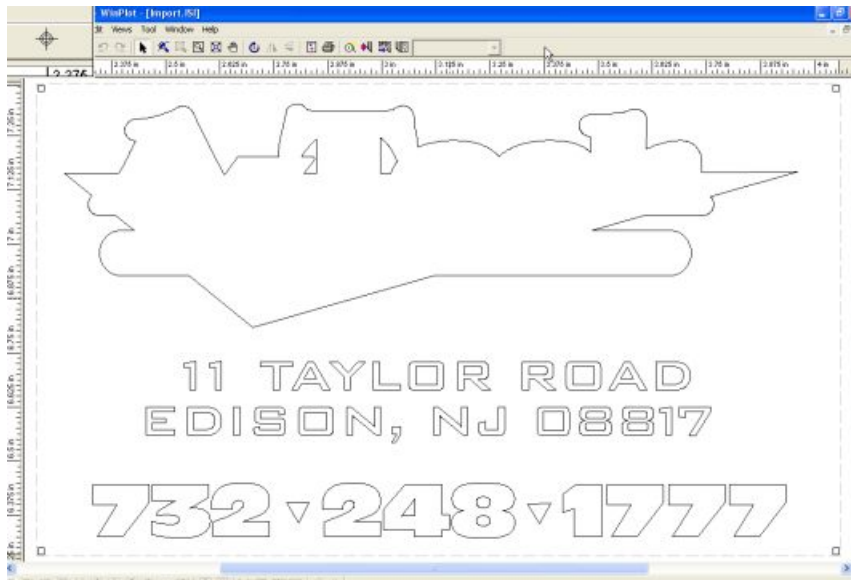
In CorelDRAW!

Cut (rotated correctly for circled print)

Ganged Prints loaded in the machine

In Winplot (rotated correctly for circled print)

Always Turn off Auto Rotate in Winplot when contour cutting.

Watch another OPOS demo here

allow 6"

cutter head
with opos

Design

Always first marker