Plotter Commands for PILOT II

The plotter should react to the following Pilot graphics commands: DRAW, TURN, DRAWTO, TURNTO, GO, GOTO, PEN UP, PEN DOWN, HOME, NORTH, PEN BLACK, PEN BLUE, PEN GREEN, PEN RED.

All other standard PILOT commands are ignored by the plotter.

New Commands:

SCALE X,Y -- creates a window 2X by 2Y units, with X and Y units the same physical size and as large as possible within the confines of the plotting paper. (0,0) is at the center of the plotting paper which is the location of HOME. NORTH is towards the top. The default scale is (79,47) like the default PILOT screen window (but without a text window).

SIZE N -- 0 <= N <= 63. Determines the size (scale) of letters plotted. Default size is 1 (40 chars per row).

WRITE or CHPLOT or CHDRAW -- plots characters starting where pen is in direction equal to nearest 90% turtle direction. Characters that would fall out of the plotting area are not plotted, but turtle position moves over one character width. After printing, turtle direction is unchanged, but turtle position has moved over so that two successive plots appear as though the strings were concatenated. This command should correctly interpret variables and embedded cursor control characters. Embedded clear screen is ignored.

PLOTTER ON (OFF) -- sets default scale and size. Scrolls paper Y units to create plotting room. Moves pen to HOME facing NORTH with PEN UP and PEN BLACK.

Accessible Plotter Varibables:

1. pen X position and pen Y position in units set by scale.
2. char width and height for current pen size in units set by current scale.

Questions:

1. How do you scroll to a new page/screen? CLEAR?
2. What happens if you print a carriage return? Don't forget you may be writing vertically. Ignore it?