Plotting with AutoCAD 2000 Tips for Apprentice Users

This document explains how to ensure that files created with AutoCAD 2000 print correctly from Apprentice and Repro Desk. It covers these key areas:

- Installing and configuring the appropriate driver
- Mapping virtual pens
- Setting the printable area of the paper

Installing and Configuring the HPGL/2 Driver

We recommend using the Hewlett-Packard DesignJet 755CM C3198A driver with AutoCAD. Follow these steps if it is not already installed:

1. In the File menu, click **Plotter Manager**. The Plotters directory window appears:



- 2. Double-click Add a Plotter Wizard. The Introduction Page appears.
- 3. Click **Next**. The Begin page appears:



4. Click My Computer, then click Next. The Plotter Model page appears:

Begin	Select your plotter man	ufacturer and model. If your plotter isn't listed, consult your
Network Plotter System Printer Plotter Model Select Driver Import Pcp or Pc2 Ports	Optionally, if you have Disk. A Browse for HIF HIF file attached to the	an installation disk containing an HDI driver, choose Have File dialog box is displayed for you to locate and install the HDI driver.
Plotter Name	Manufaalu yara	Madala
Finish	Adobe Autodesk ePlot (DWF) Hewlett-Packard Oce Raster File Formats Xerox Engineering Systems	DesignJet 750C Plus C47088 DesignJet 750C Plus C47098 DesignJet 750C Plus C47098 DesignJet 755CM C31988 Draftmaster 1 (7595A)
	This model is supported by HI	PGL/2 - by Autodesk <u>H</u> ave Disk
		< <u>B</u> ack <u>N</u> ext > Cancel

- 5. In the Manufacturers list, click Hewlett-Packard. In the Models list, click DesignJet 755CM C3198A.
- 6. Click Next. The Driver Information message appears:

IMPORTANT : READ THIS IF YO	U ARE USING AN HP DESIGNJET
The Autodesk printer driver for HP DesignJets that you DesignJet family.	a have chosen is for use with printers emulating the
If you have an HP DesignJet printer, we recommend y system printer supplied on the AutoCAD 2000 installatio quality for this version of AutoCAD 2000 and later.	ou press Exit and install the HP DesignJet Windows on CD instead. It delivers excellent print speed and prin
Note: For AutoCAD 2000, the HPGL/2 RTL DesignJet later have been optimized for fast printing. The AutoCA \Windows System Drivers\ HP\Enu\ <your p\<br="" windows="">of the drivers will be posted on the HP web site at http:</your>	: Windows System Printer drivers, version v4.01 or D 2000 CD-ROM contains version v4.01 located in the atform> directory. When available, newer versions ://www.hp.com.

Note: Apprentice does not support the HPGL/2 RTL DesignJet Windows System Printer drivers described in this message. The drivers embed unrecognized commands into .plt files and cause Apprentice to process incorrectly.

7. Click **Continue**. The Import Pcp or Pc2 page appears:



8. Click **Next**. The Ports page appears:

Begin 🛛	C Plot to a port	Plot to File	C AutoSpool
Network Plotter System Printer Plotter Model	The following is a lis configured device. A you select.	t of all ports avail All documents wil	able for the currently be plotted to the port
Select Driver	Port	Description	Printer
Ports Plotter Name		Local Port Local Port	Acrobat PDF
		Network Port	\\BRUCEE\G
1.1.1		Network Port Network Port	VUANEVHP L
1 1	L <u>C</u> onfigure Po	rt	<u>W</u> hat is AutoSpool
	📃 🗖 Show all system	ports and disable	e I/O port validation

9. Click **Plot to File**.

10. Click **Next**. The Plotter Name page appears:



11. Accept the default name for the plotter or type a new name, then click Next. The Finish page appears:

Add Plotter - Finish	×
Begin Network Plotter System Printer Plotter Model Select Driver Import Pcp or Pc2 Ports Plotter Name ►Finish	The plotter DesignJet 755CM C3198A has been installed with its default configuration settings. To modify the default settings, choose Edit Plotter Configuration. Edit Plotter Configuration Optionally, to perform a plot calibration test on the newly configured plotter, and verify that your drawing measurements plot accurately, choose Calibrate Plotter.
	L Calibrate Plotter < Back Einish Cancel

- 12. Click **Edit Plotter Configuration**. The Plotter Configuration Editor appears with the Device and Document Settings tab active.
- 13. Click the plus sign next to Graphics to expand the list.
- 14. Click Vector Graphics. The lower half of the dialog box displays resolution and color depth settings.

🖗 Plotter Config	uration Editor - DesignJ	et 755CM C3198A	? ×
General Ports	Device and Document Se	ittings	
Image: Second state of the second	755CM C3198A urce and Size <src: roll-fed<br="">dia Type <dpaque bond=""> dia Destination <default out<br="">28 ctor Graphics <clrs: 255="" virtu<br="">ster Graphics <clr 50="" res:=""> Properties ation Strings ferhed Paner Sizes & Calibrat</clr></clrs:></default></dpaque></src:>	Source> <width: 36="" inch<br="">put> val Pens><res: 300x300="" e<br="">(Raster: 6><0LE: 6></res:></width:>	Andl> PPI>-
Besolution and	d Color Depths	1	
	Color Depth	<u>R</u> es: 300x300 DPI	-0
	 Color C Monochrome 	Dithering: Hardware Pattern-0), – 1
Įmport	Save As	Defa	ults
	OK	Cancel	Help

In the Color Depth section, select 255 Virtual Pens from the list for both Color and Monochrome.
 Click OK.

Mapping Virtual Pens

If you have configured Apprentice to use the pen information embedded in the plot file and you don't need to change an AutoCAD-generated file in Apprentice, you can skip this section.

If you need to change line weights, colors or screening patterns after importing files into Apprentice, use the plot style named Default R14 Pen Assignments. It has the virtual pens mapped correctly. It should be available if you upgrade AutoCAD 14 with AutoCAD 2000 or if the plotter configuration files were migrated to the new format. Check for Default R14 Pen Assignments by opening your installation folder, usually Acad2000, then the Plot Styles subfolder.

If it is not available, you can obtain it two ways:

- Download it through your Internet browser.
- 1. Go to <u>www.apprentice.com/support</u>.
- 2. Click Stuff.
- 3. In the free software section, click **Default R-14 pen assignments** and follow the instructions for downloading.

- Create one with AutoCAD Plot Style Manager.
- 1. In the File menu, click **Plot Style Manager.** The Plot Styles directory window appears.
- 2. Double-click Add-a-Plot Style Table Wizard. An intro page appears.
- 3. Click Next. The Begin page appears:



4. Click Start from Scratch, then click Next. The Pick Plot Style page appears:



5. Click Color Dependent Plot Style Table, then click Next. The File Name page appears: Add Plot Style Table - File name

Enter a file nam identify this as a appended.	e for the new plo plot style table fi	t style table you a le, a CTB extensi	re creating. To on will be
<u>File name :</u>			
mymappedpen	8		
	< Back	Nevts	Cancel
	< <u>B</u> ack	<u>N</u> ext >	Canc
	Enter a file nam identify this as a appended. Eile name : [mymappedpen]	Enter a file name for the new plo identify this as a plot style table fi appended. Eile name : mymappedpens < <u>Back</u>	Enter a file name for the new plot style table you a identify this as a plot style table file, a CTB extensi appended. Elle name : mymappedpens mymappedpens

6. Type a name for the table and click **Next**. The Finish page appears:

Add Plot Style Table	Finish E
Begin Table⊺ype Browse File File name ▶ Finish	A plot style table named gm. ctb has been created using the style properties taken from an existing plot style table. To modify the new plot style table gm. ctb, choose Plot Style Table Editor.
	Use this plot style table for new and pre-AutoCAD 2000
	< <u>B</u> ack <u>Finish</u> Cancel

7. Click **Plot Style Table Editor.** The Plot Style Table Editor appears:

Plot styles:		Properties			11.00
Color 1		<u>C</u> olor:	Use of	oject color	-
Color 2			<u>D</u> ither:	On	-
Color 4		<u>G</u> r	ayscale:	0#	-
Color 5 Color 6		Pen	number:	Automatic	1.4
Color 7		Virt	– ual pen:	Automatic	
Color 9		Screening:	100	Automatic	
Color 10		Linetupe			
Color 12		Line <u>t</u> ype.] 	Use object lin	ety 💌
Color 13		A	dapti <u>v</u> e:	On	•
Color 15	_	Line <u>w</u> eight:	Use	object linewei	ghl 💌
Desc <u>r</u> iption:		Line <u>e</u> nd style:	— Use	object end sty	le 🔻
	<u> </u>	Line join style:	🕻 Use	object join sty	le 🔻
		<u>F</u> ill style:	Use	object fill style	•
Add Style) elete Style	Edit Linewe	ights	Save A	4s
			-		

- 8. Click the first item in the Plot styles list to select it. On the rightSet Pen number to 1
- Set Virtual pen number to match the selected item's color number
- Set Adaptive to Off
- Set Lineweight to 0.2540 mm
- 9. Repeat for each pen in the Plot styles list:

<u>P</u> lot styles:		Properties			
Color 1	_	<u>C</u> olor:	Use o	bject color	-
Color 2 Color 3			<u>D</u> ither:	On	-
Color 4		<u>G</u> ra	ayscale:	Off	Ţ
Color 5		Peng	number:	1	
Color 7		Virt	ual pen:	2	
Color 9		Screening:	100]-	
Color 10 Color 11		Linetupe:	100	I les abient 6	
Color 12		ریمانی ا	dantive:	Use object ii	nety 💌
Color 14	-	Linowoidht I	uapa <u>v</u> e.	Inu	
Color 15	الشر		0.2	540 mm	_
Description:		Line end style:	— Use	e object end si	tyle 💌
		Line join style:	🕻 Use	e object join st	yle 💌
	*	<u>F</u> ill style:	🗌 Use	e object fill styl	e 💌
Add Style	Delete Style	Edit Linewe	iahts	Save	As

10. When you are finished, click **Save and Close**.

> Setting the printable area of the paper

- 1. In the File menu, click **Plotter Manager**. The Plotters directory window appears.
- 2. Double click the plotter you are using. The Plotter Configuration Editor dialog box appears. Go to Step 4.

OR

- 1. In the toolbar, click **Plot**. The Plot dialog box appears.
- 2. In the Plotter configuration section, choose your plotter from the list, then click **Properties**.
- 3. The Plotter Configuration Editor dialog box appears.
- 4. Click the plus sign (+) next to User-defined Paper Sizes and Calibration to expand the list, then click **Modify Standard Paper Sizes (Printable Area).** The list of available paper sizes, along with their margins and available printing area, displays in the lower half of the dialog box.

5. In the list, click a paper size to select it, then click **Modify**. The Custom Paper Size wizard Printable Area page appears:

Media Bounds	The Preview tile indicates the printable area based on the currently selected paper size. To modify the non-printable area, adjust Top, Bottom, Left and Right edges of the page.
Printable Area Paper Size Name File name Finish	NOTE: Most drivers calculate printable area from a specific measurement away from the edge of the paper. Some drivers, such as Postscript drivers, measure printable area from the actual edge of the paper. Verify that your plotter is capable of plotting from the actual dimensions you specify. Lop: Iop: 0 # Bgttom: 0 # Left: 0 # Bight: 0 #

6. To print to the edge of the paper, set all margins to **0**.

Begin Media Bounds	The Preview tile indicates the printable area based on the currently selected paper size. To modify the non-printable area, adjust Top. Bottom, last and Right addas of the page.
Printable Area Paper Size Name File name Finish	NOTE: Most drivers calculate printable area from a specific measurement away from the edge of the paper. Some drivers, such as Postscript drivers, measure printable area from the actual edge of the paper. Verify that your plotter is capable of plotting from the actual dimensions you specify.
	Iop : 0
	Left: 0 == Bight: 0 ==

7. Click **Next**. The File Name page appears:



8. Accept the default name or type a new one. Click **Next**. The Finish page appears:

Custom Paper Size - Finish	×
Begin Media Bounds Printable Area Paper Size Name File name Finish	You have modified a standard paper size named ARCH C (24.00 x 18.00 Inches). The printable area of this paper size has been modified to the new dimensions you specified.
	Print test page < Back

- 9. Because you are printing to file, not paper, the source and roll do not matter. Click **Finish**. The PMP file is generated.
- 10. Repeat for each paper size you wish to modify.