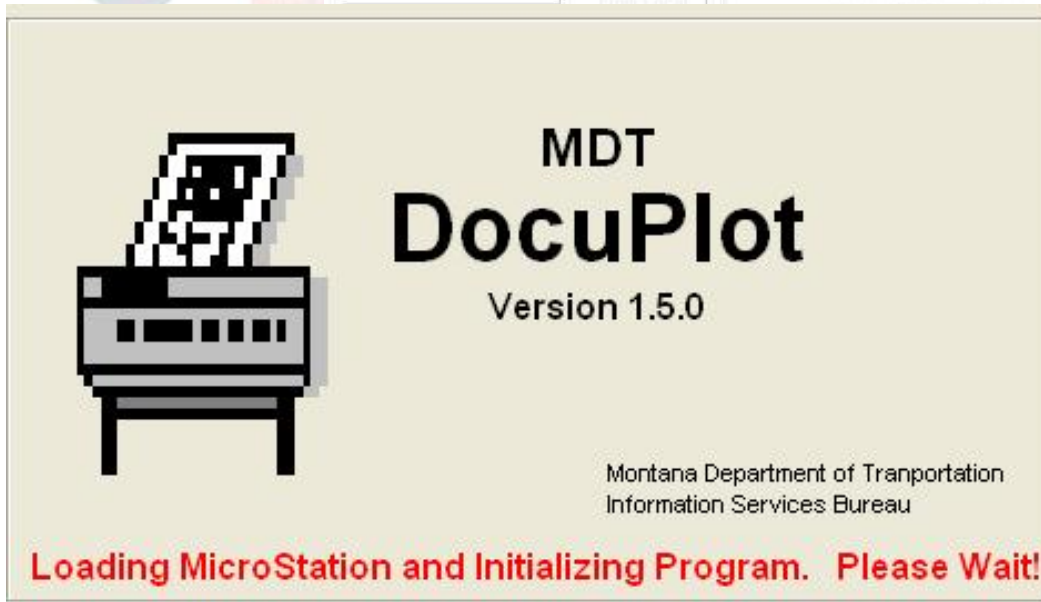
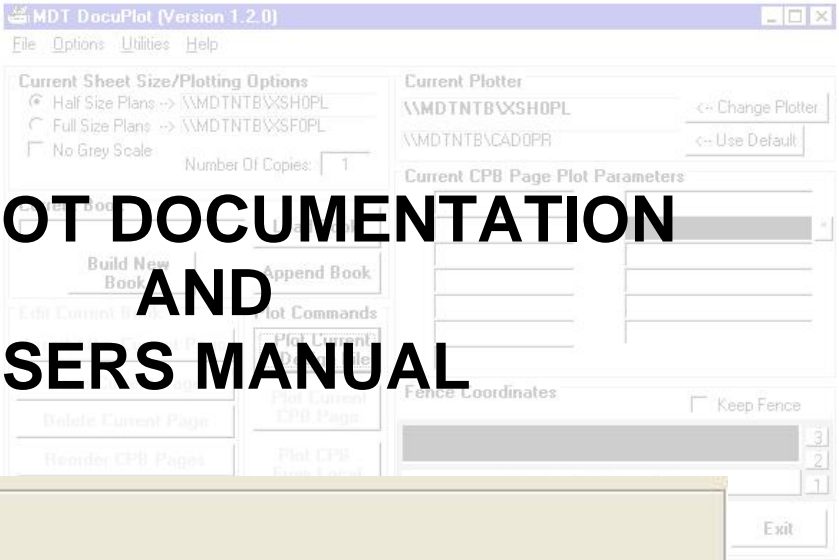




DOCUPLLOT DOCUMENTATION AND USERS MANUAL



MONTANA DEPARTMENT OF TRANSPORTATION

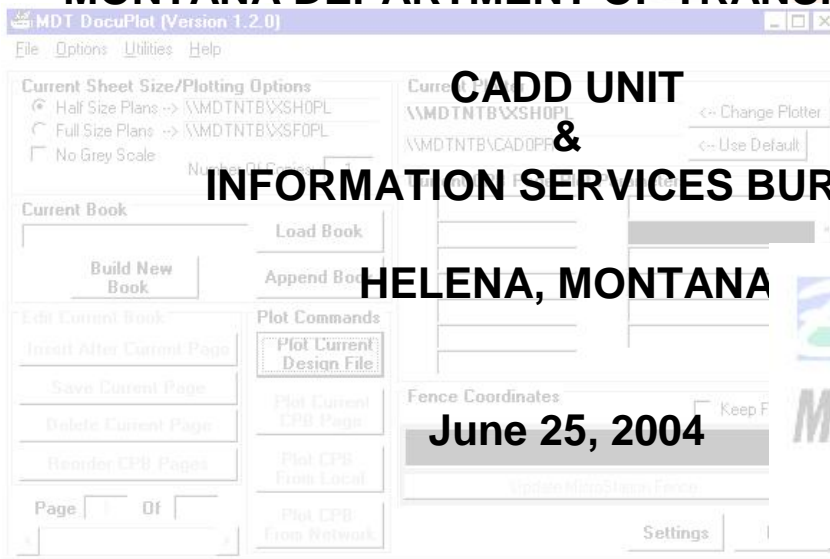


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MDT DOCUPLOT

DocuPlot is a plotting solution meeting the needs of CADD designers, the contract plans section, and the print unit. DocuPlot supports local plotting and plotting from a CADD server for designers. DocuPlot supports the creation of electronic plan books for contract plans. DocuPlot supports full electronic plan set production for the print unit.

1. TO OPEN DOCUPLOT

1.1. MicroStation V8

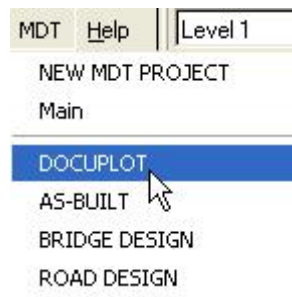
MicroStation must be running before DocuPlot will operate. MicroStation can be initialized and any file opened, or DocuPlot will open MicroStation and attach the file MDT.MAS. DocuPlot operates in conjunction with MicroStation. Do not minimize MicroStation when using DocuPlot. MicroStation must have window one open for DocuPlot to print a local file.

1.2. DocuPlot

Go to the desktop and click DocuPlot shortcut. If MicroStation is not opened when DocuPlot is initialized, then MicroStation will be opened using the DocuPlot configuration for MicroStation V8 startup settings. The file MDT.MAS will be the active design file. (See *Section 6.8, Modify and Save MicroStation Startup STD Settings, pp.55*).

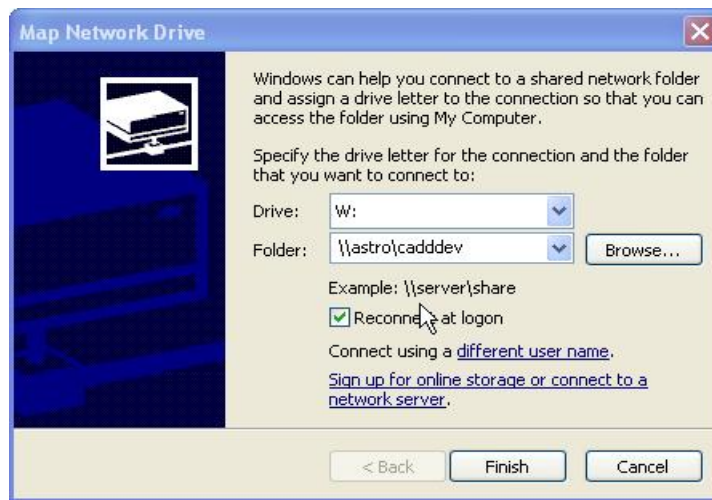
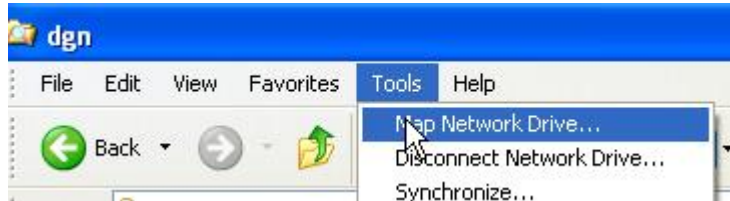


MicroStation can also be used to access DocuPlot. In MicroStation go to MDT>Docuplot.

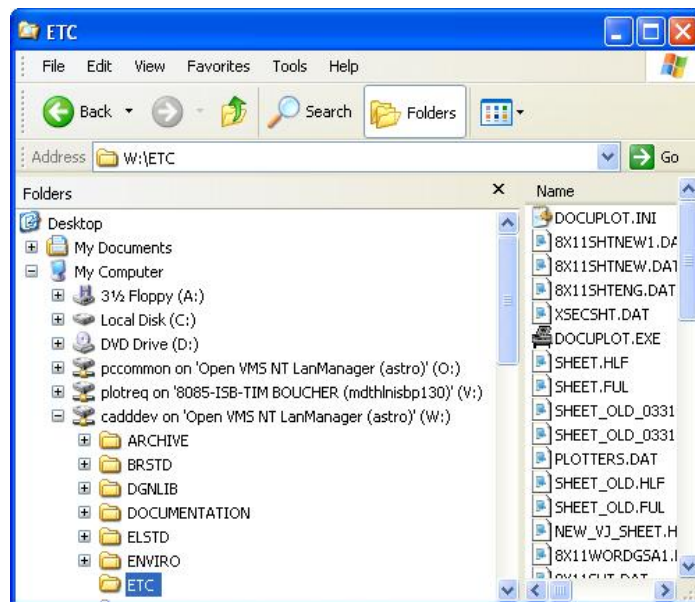


1.3. W: Drive (CADDSTD or CADDTEST)

DocuPlot will operate only when the w: drive is mapped correctly. DocuPlot originates from the w:\\astro\cadddev\etc.

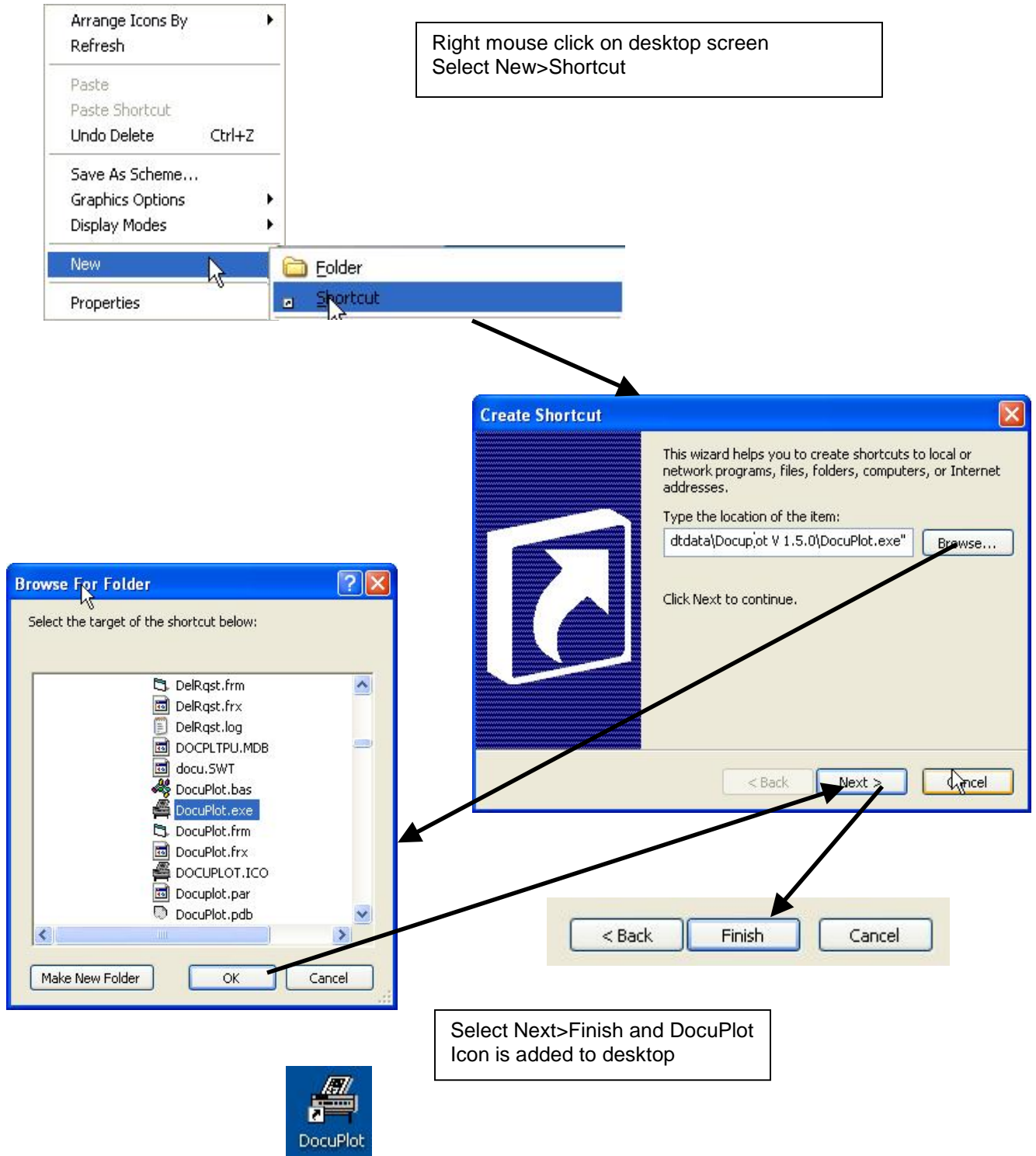


W Drive *must* be attached to cadddev



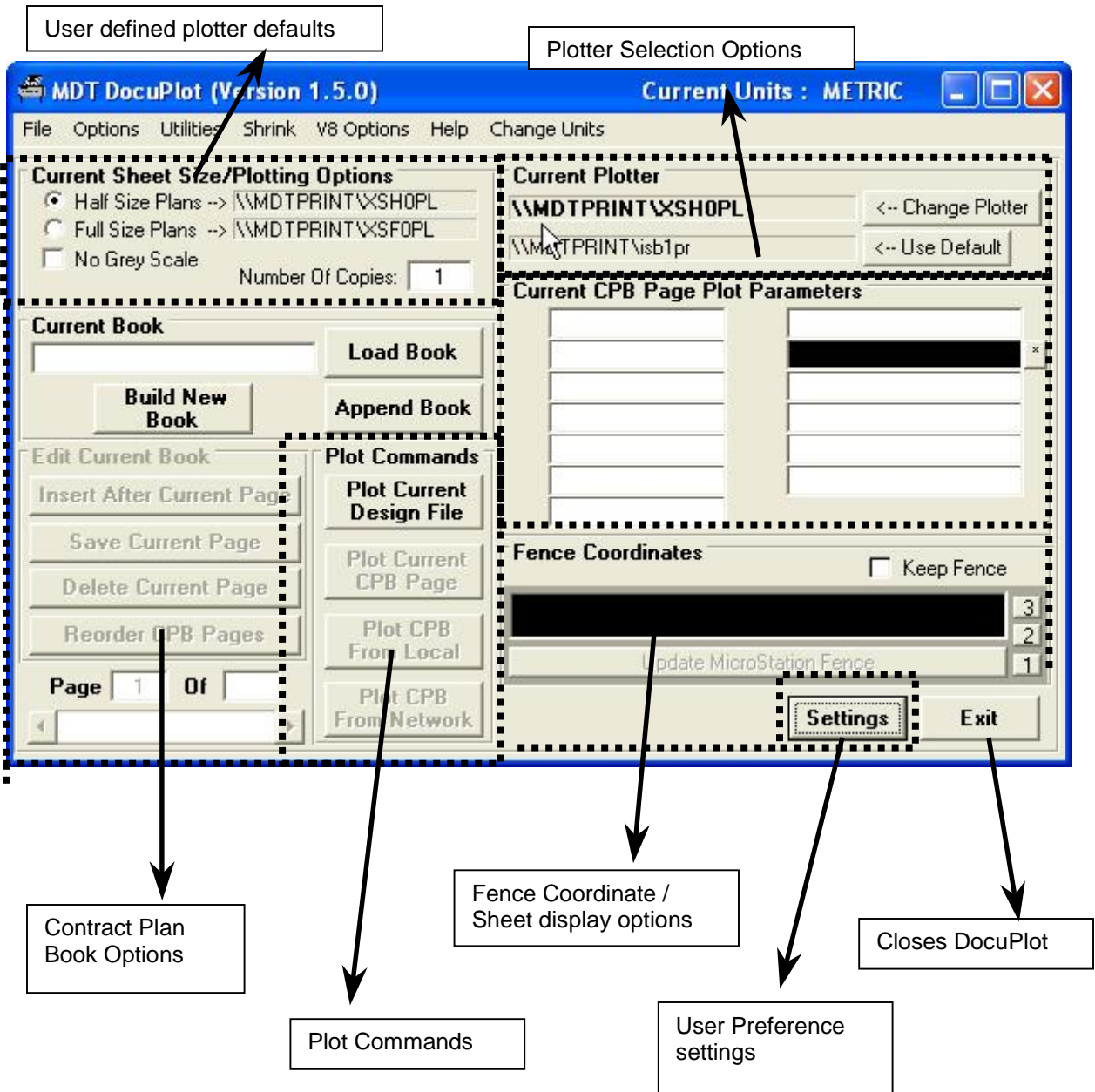
1.4 Adding DocuPlot Icon to Desktop

A DocuPlot icon can be added to the desktop using the standard Windows XP process.



1.5 DocuPlot Screen

The DocuPlot screen has specific sections in the main dialog that relate to its major functions.



2. VIEWING LOCAL FILES

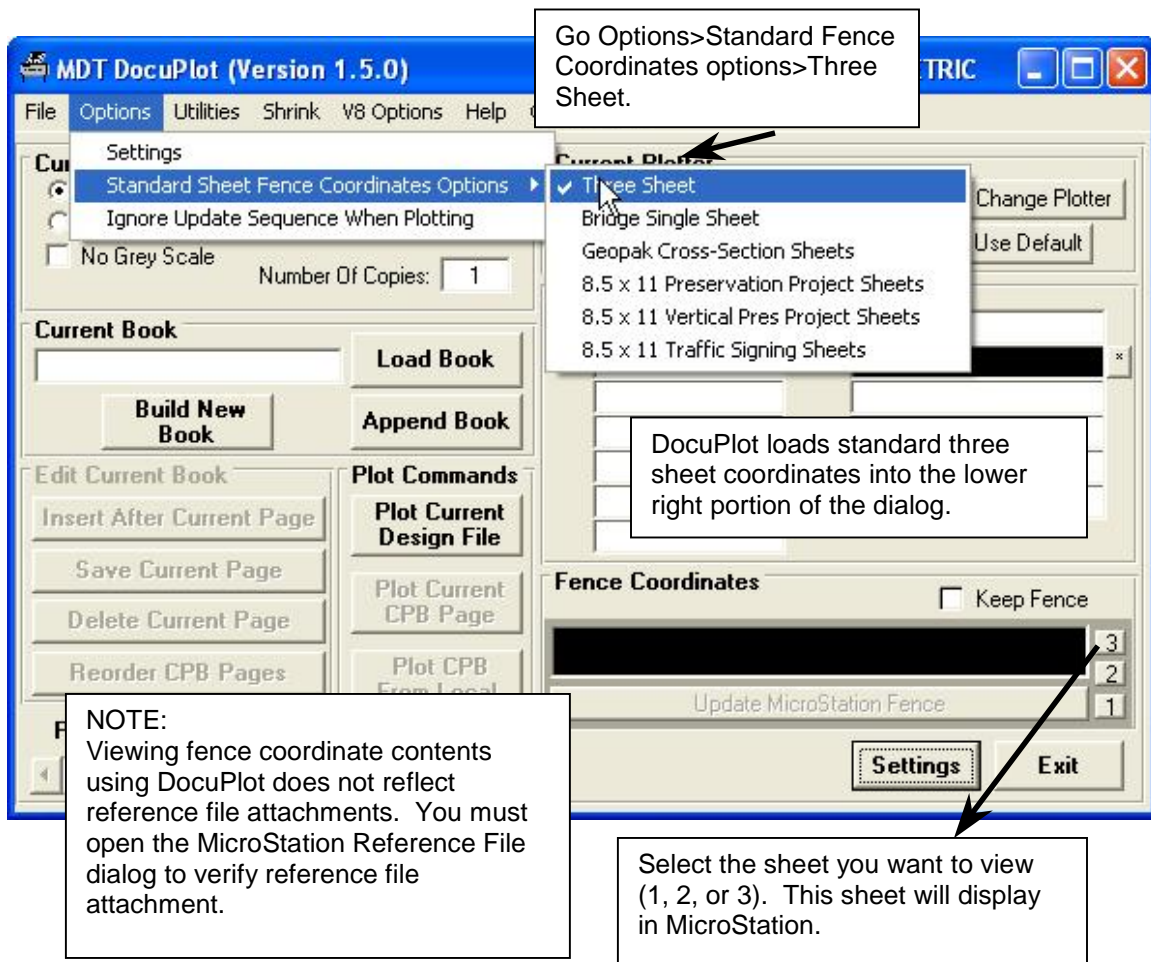
Standard MDT file formats can be navigated using DocuPlot. The navigation tool supports the following file formats; Three sheet, Bridge single sheet, Geopak Cross-Section sheets, 8.5 x 11 preservation project sheets, 8.5 x 11 vertical pres project sheets, 8.5 x 11 Traffic Signing Sheets. It is also possible to change the units from Metric to English and vice-versa. To navigate through a file using DocuPlot, the design file must be active in MicroStation.

2.1. Viewing Standard Three Sheet plans using DocuPlot

Open a MicroStation design file that has a same standard format as the Current Units.

Page through the three sheets plans using the fence coordinates display option. Select the option to set the coordinates to three sheet. This command places a window area on the half size or full size plotting coordinates and displays the contents in a MicroStation station window.

Hint: You may need to use the MicroStation “fit all” or “fit view” command before using DocuPlot to view plan sheet contents.

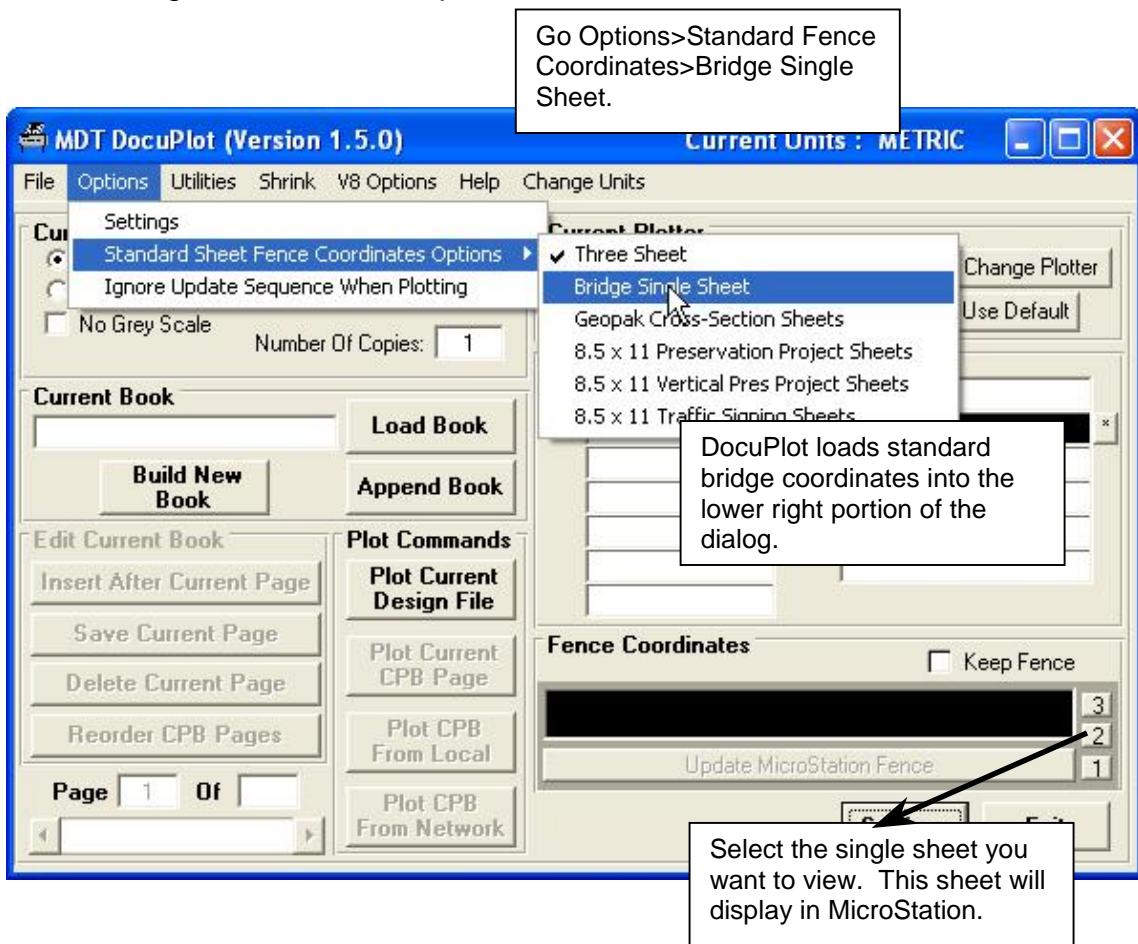


2.2. Viewing Standard Bridge Single Sheets using DocuPlot

Open a MicroStation design file that has a standard single bridge sheet format.

View the contents of the single sheet using the fence coordinates display option. Select the option to set the coordinates to Bridge Single sheet. This command places a window area on the half size or full size plotting coordinates and displays the contents in a MicroStation window.

Hint: You may need to use the MicroStation “fit all” or “fit view” command before using DocuPlot to view plan sheet contents.



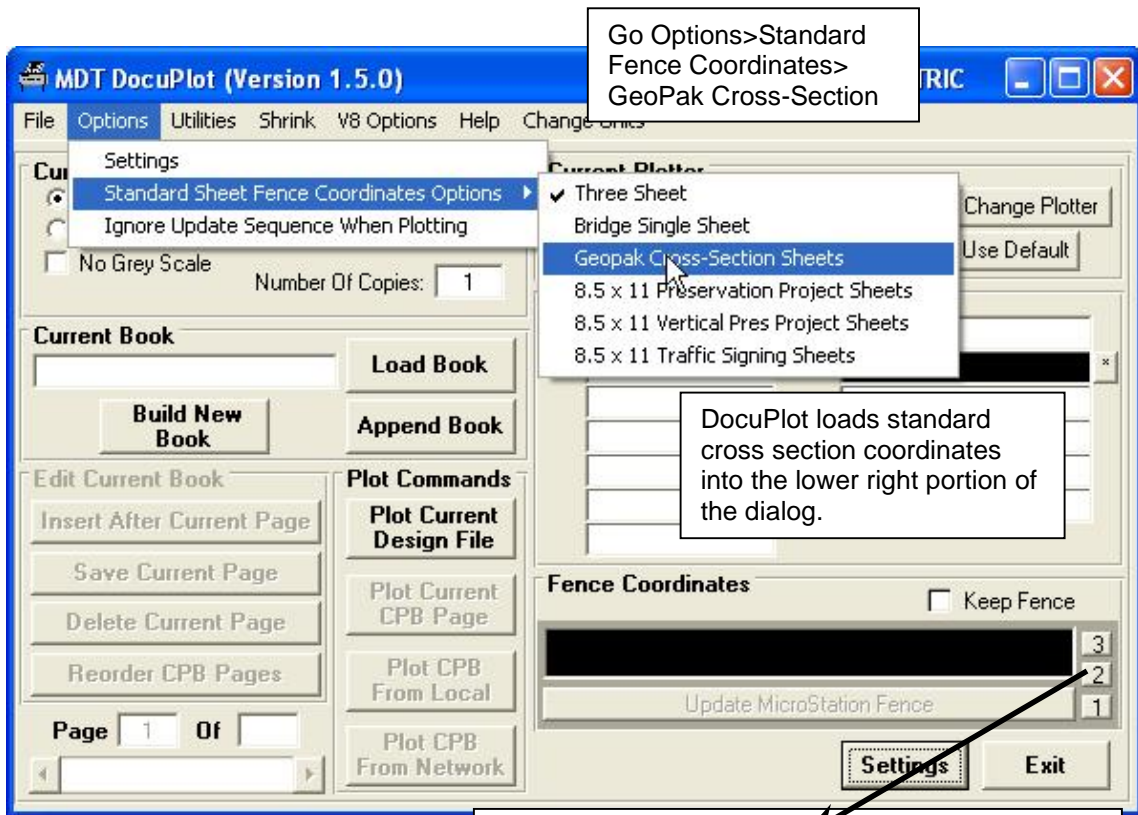
NOTE:
Viewing fence coordinate contents using DocuPlot does not reflect reference file attachments. You must open the MicroStation Reference File dialog to verify reference file attachment.

2.3. Viewing Standard GeoPak XS Sheets using DocuPlot

Open a MicroStation design file that has a standard GeoPak Cross Section sheet format.

View the contents of the metric Cross Section sheets using the fence coordinates display option. Select the option to set the coordinates to GeoPak Cross-Section sheets. This command places a window area on the half size or full size plotting coordinates and displays the contents in a MicroStation window.

Hint: You may need to use the MicroStation “fit all” or “fit view” command before using DocuPlot to view plan sheet contents.



Select the sheet you want to view using the Scroll bar, the up or down buttons, or key in the specific sheet to view. The selected cross section sheet will display in MicroStation.

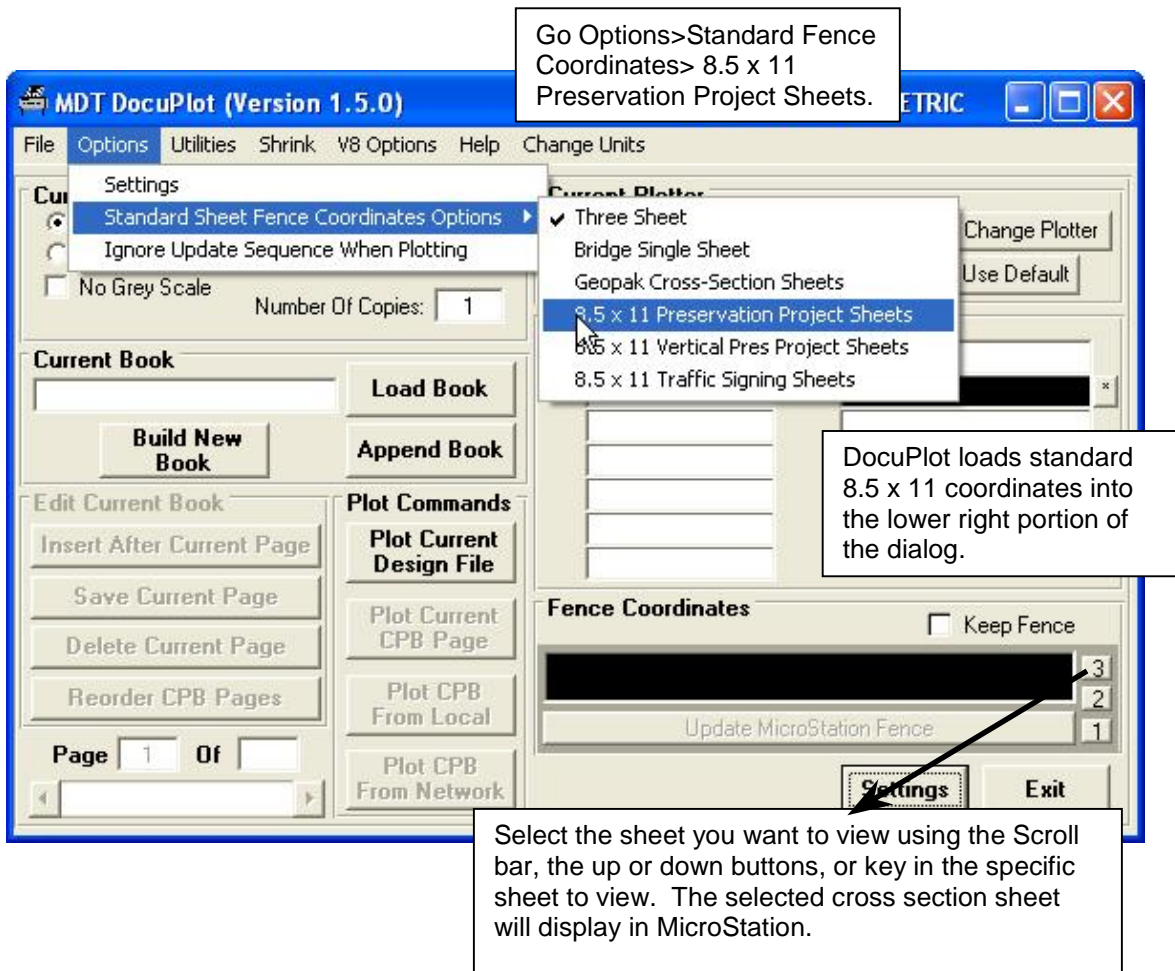
NOTE:
Viewing fence coordinate contents using DocuPlot does not reflect reference file attachments. You must open the MicroStation Reference File dialog to verify reference file attachment.

2.4. Viewing 8.5 x 11 Preservation Project Sheets using DocuPlot

Open a MicroStation design file that has a standard Pavement Preservation sheet format.

View the contents of the pavement preservation sheets using the fence coordinates display option. Select the option to set the coordinates to 8.5 x 11 Preservation Project sheets. This command places a window area on the 8.5 x 11 plotting coordinates and displays the contents in a MicroStation window.

Hint: You may need to use the MicroStation “fit all” or “fit view” command before using DocuPlot to view plan sheet contents.



NOTE:
Viewing fence coordinate contents using DocuPlot does not reflect reference file attachments. You must open the MicroStation Reference File dialog to verify reference file attachment.

2.5. Viewing 8.5 x 11 Vertical Preservation Project Sheets using DocuPlot

Open a MicroStation design file that has a standard Vertical Preservation sheet format.

View the contents of the pavement preservation sheets using the fence coordinates display option. Select the option to set the coordinates to 8.5 x 11 Preservation Project sheets. This command places a window area on the 8.5 x 11 plotting coordinates and displays the contents in a MicroStation window.

Hint: You may need to use the MicroStation “fit all” or “fit view” command before using DocuPlot to view plan sheet contents.

Go Options>Standard Fence Coordinates> 8.5 x 11 Vertical Pres Project Sheets.

DocuPlot loads standard 8.5 x 11 coordinates into the lower right portion of the dialog.

Select the sheet you want to view using the Scroll bar, the up or down buttons, or key in the specific sheet to view. The selected cross section sheet will display in MicroStation.

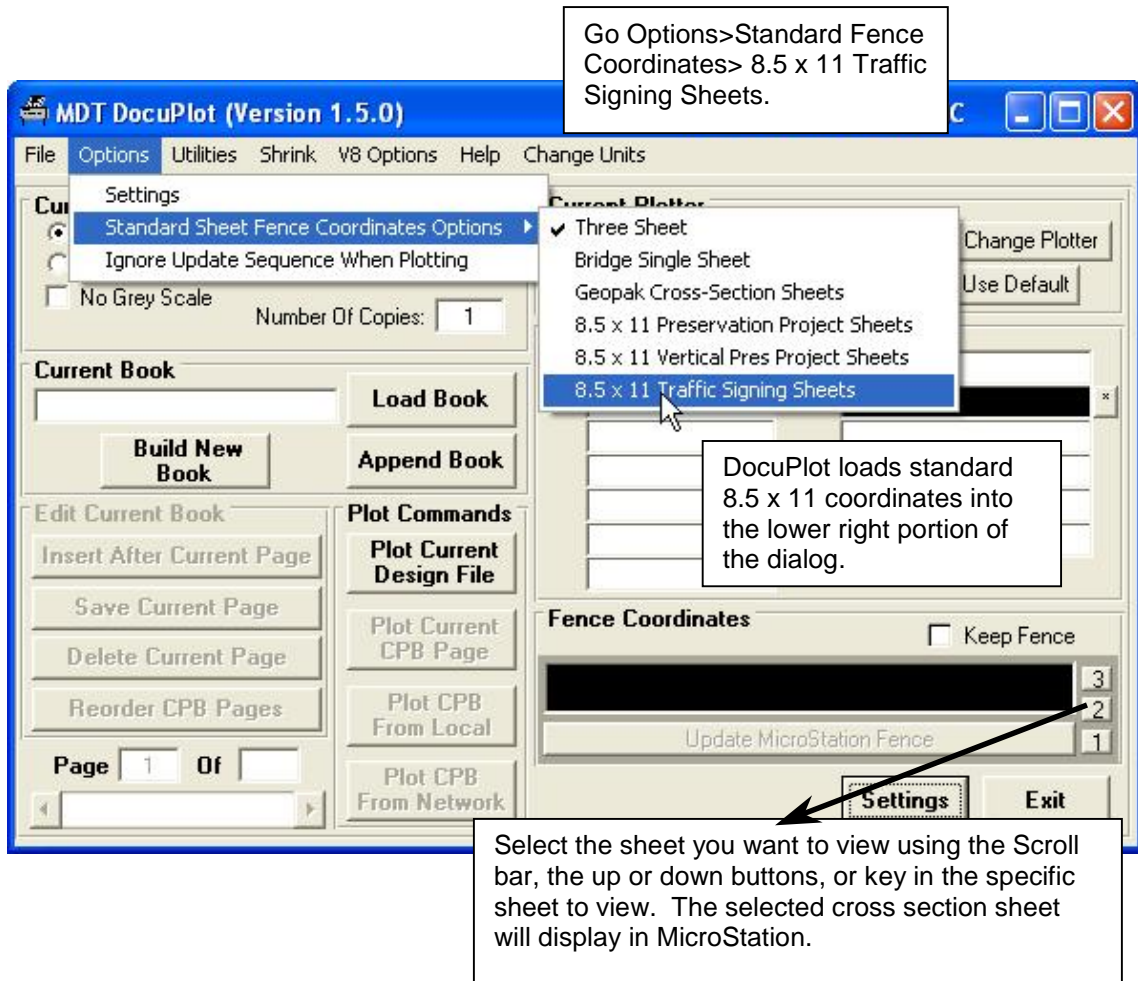
NOTE:
Viewing fence coordinate contents using DocuPlot does not reflect reference file attachments. You must open the MicroStation Reference File dialog to verify reference file attachment.

2.6. Viewing 8.5 x 11 Traffic Signing Sheets using DocuPlot

Open a MicroStation design file that has a standard traffic sign design sheet format.

View the contents of the traffic sign design sheets using the fence coordinates display option. Select the option to set the coordinates to 8.5 x 11 traffic sign design sheets. This command places a window area on the 8.5 x 11 plotting coordinates and displays the contents in a MicroStation window.

Hint: You may need to use the MicroStation “fit all” or “fit view” command before using DocuPlot to view plan sheet contents.



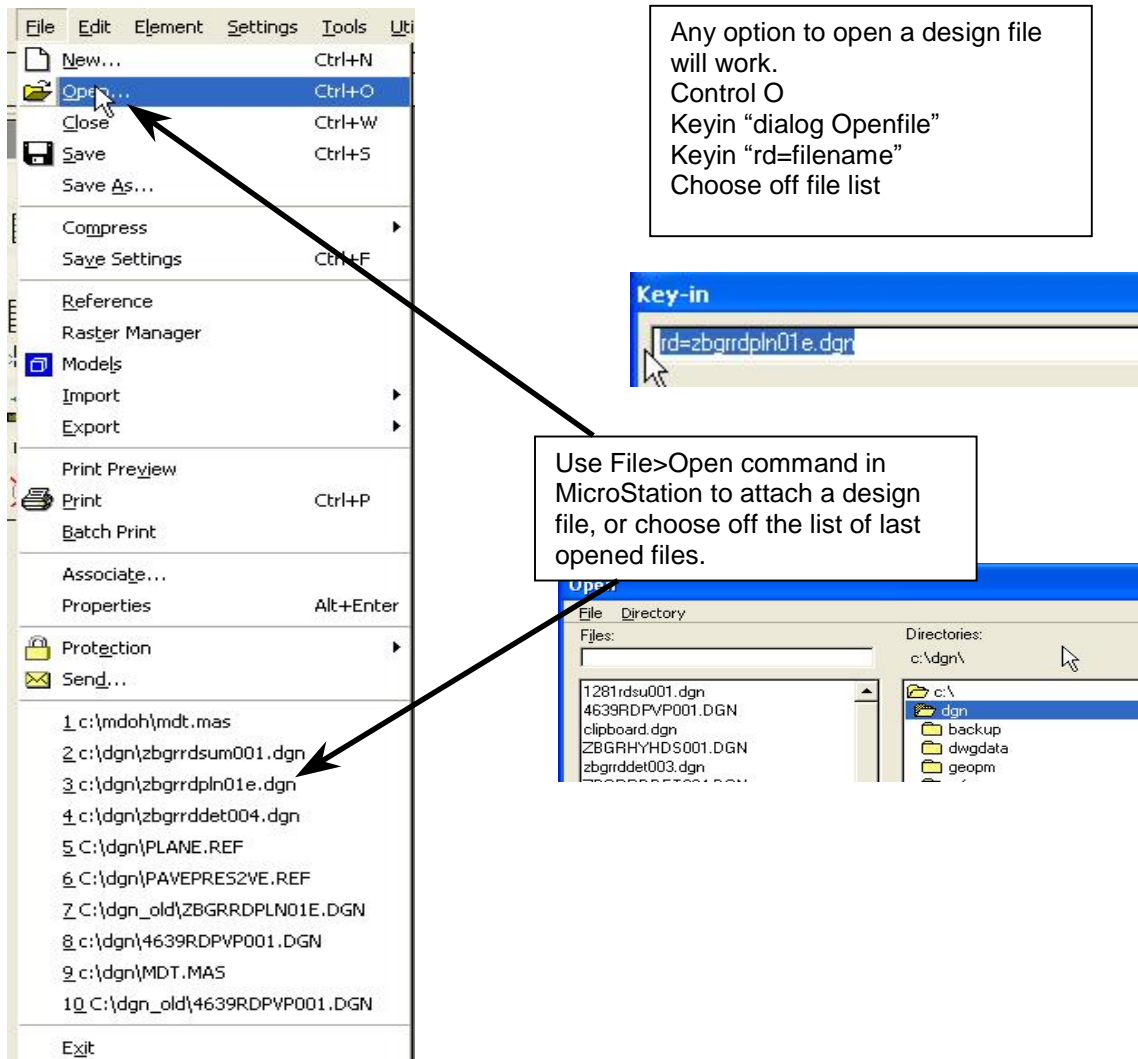
NOTE:
Viewing fence coordinate contents using DocuPlot does not reflect reference file attachments. You must open the MicroStation Reference File dialog to verify reference file attachment.

3. LOCAL PLOTTING

DocuPlot's Local plotting option allows MicroStation users the ability to plot any MDT standard sheet format. This includes Three sheet, Bridge single sheet, Geopak Cross-Section sheets, 8.5 x 11 preservation project sheets, 8.5 x 11 vertical pres project sheets, 8.5 x 11 Traffic Signing Sheets design calculations. The design file must be active in MicroStation.

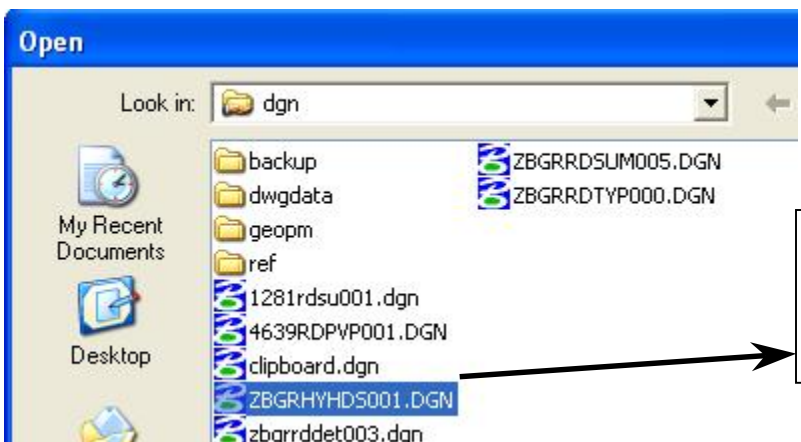
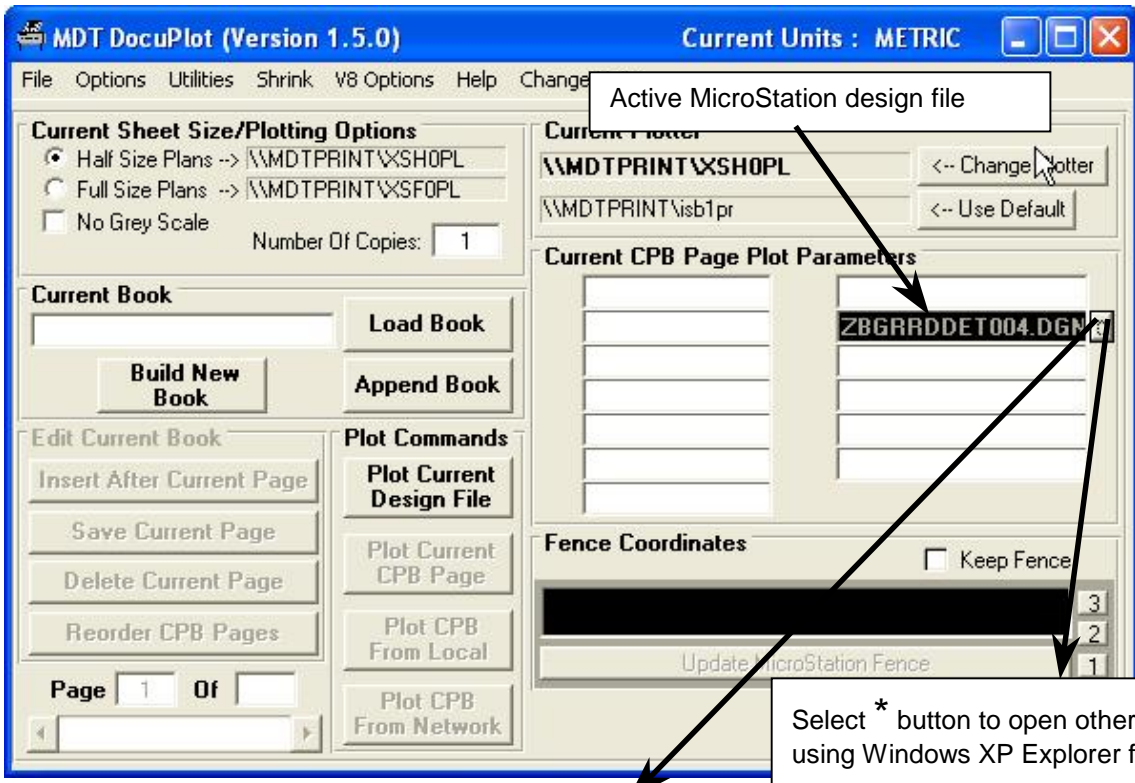
3.1. Open Design file using MicroStation

Use any accepted method to open a MicroStation design file.



3.2. Open Design File using DocuPlot

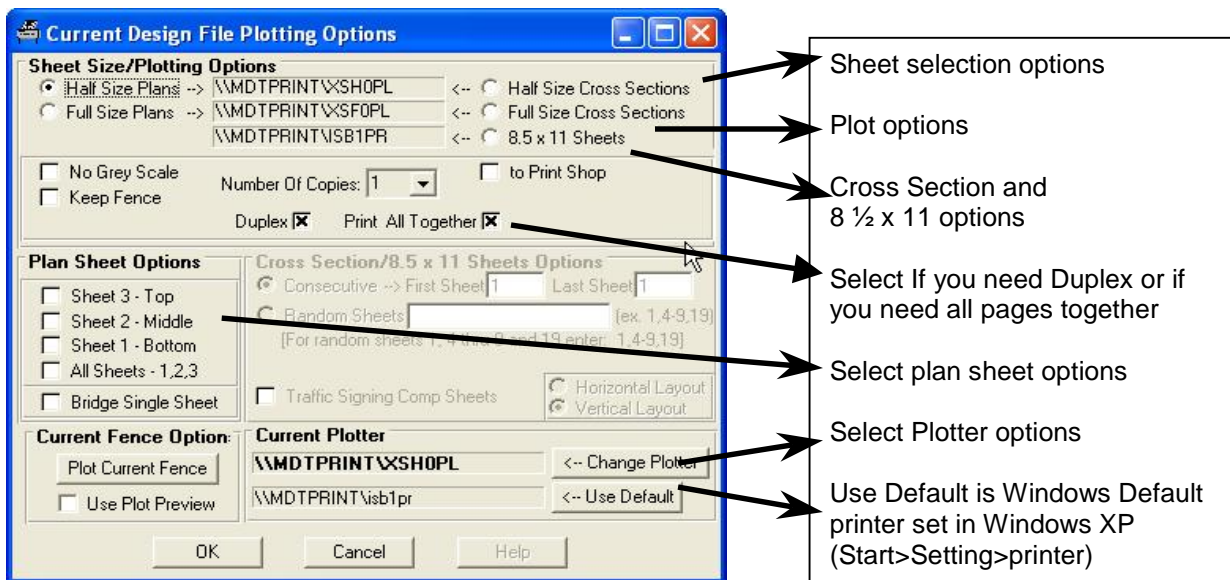
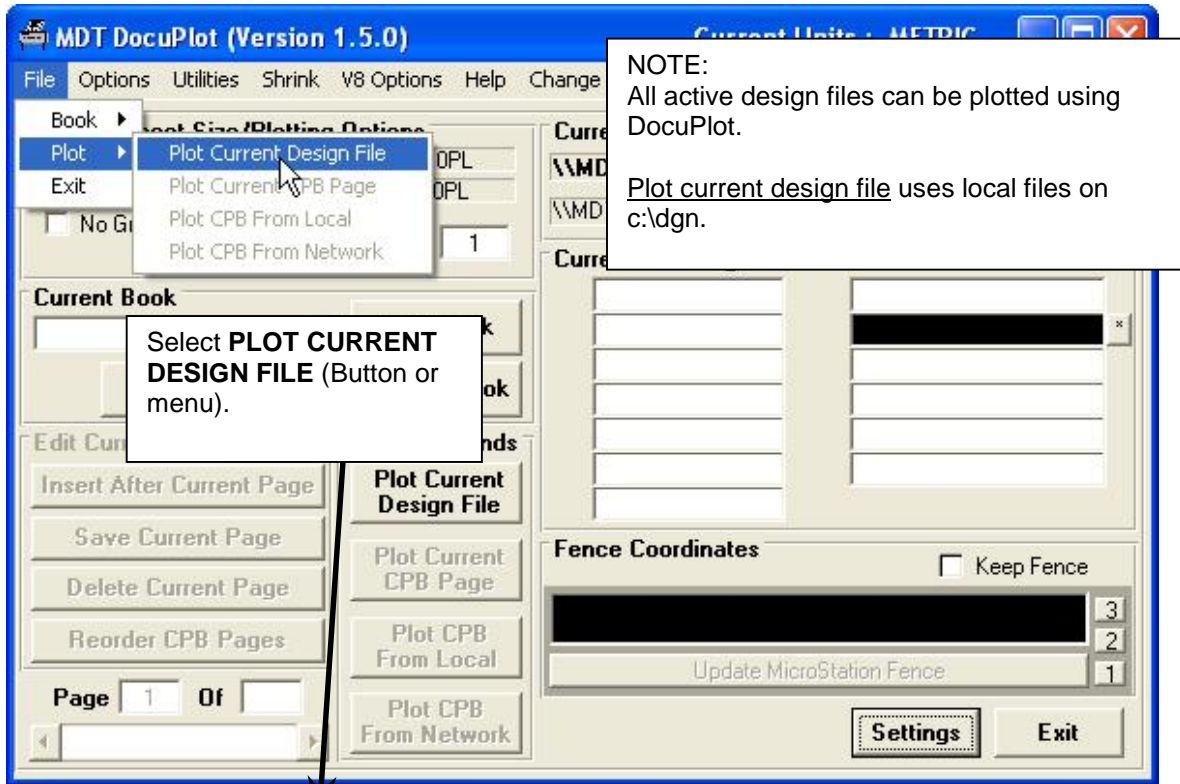
DocuPlot has the option of opening MicroStation design files.



NOTE:
 Filter setting determined by DocuPlot user settings. (See Section 6.8, *Modify and Save MicroStation Startup STD Settings, pp.55*).

3.3. Plot Current Design File Option

Any active MicroStation design file can be plotted using DocuPlot. Plot Current Design File will plot standard three sheet plans, standard cross section sheets, and standard 8 ½ x 11 sheets.



3.4. Select Sheet Style and Size

Determine the sheet type for plotting, (Half Size, Full Size or 8 1/2 x 11). Select the sheet size, number of copies, and grey scale options.

THREE SHEET PLANS

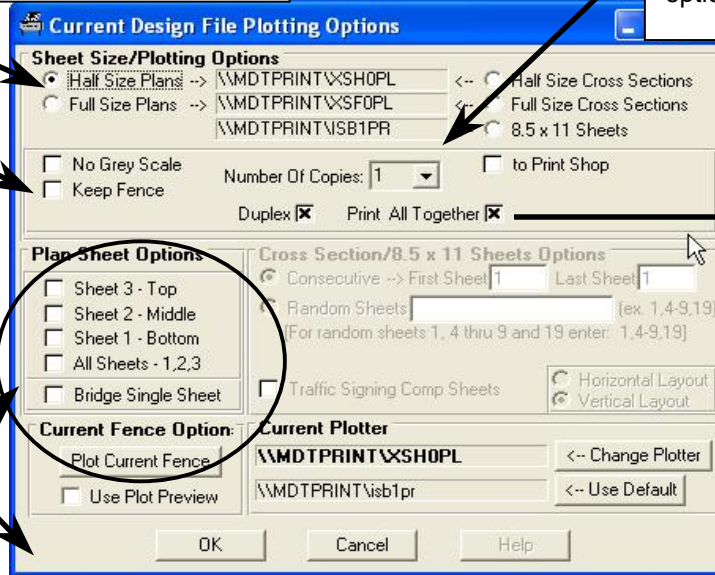
Select Half Size plan sheets, (default) or Full Size plan sheets.

Determine Grey Scale and number of copy options.

Keep Fence will maintain the last fence placed used for plotting.

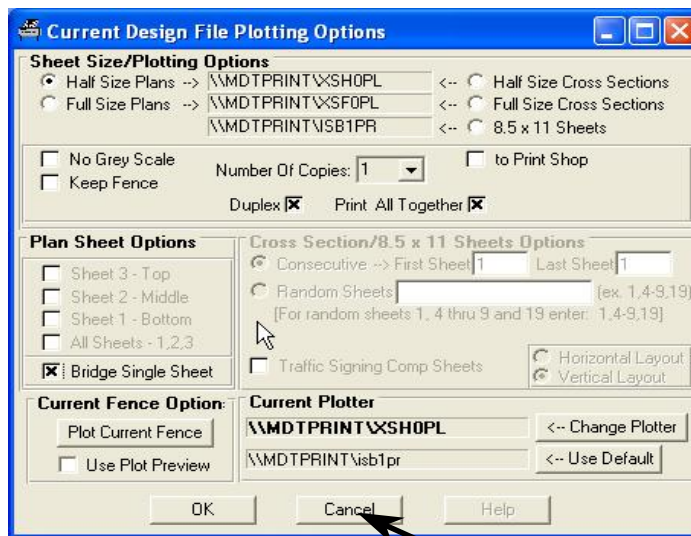
Select if you need Duplex or if you want to print all pages together

Select Plan sheets required. When all sheets is selected the individual sheets will no longer be available for selection



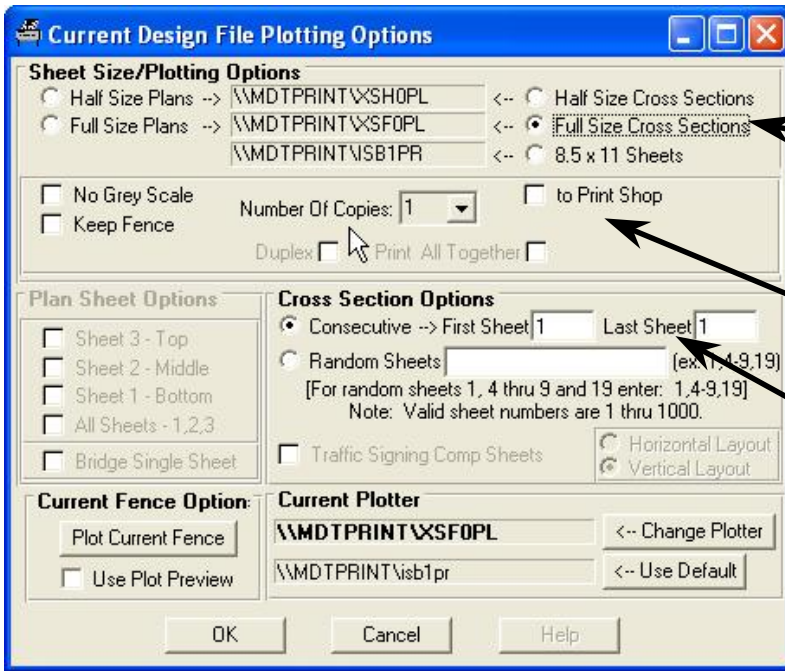
SINGLE SHEET BRIDGE PLANS

Select Bridge Single Sheet. The three-sheet format will no longer be available for selection



Cancel Returns to main DocuPlot dialog.

CROSS SECTION SHEETS

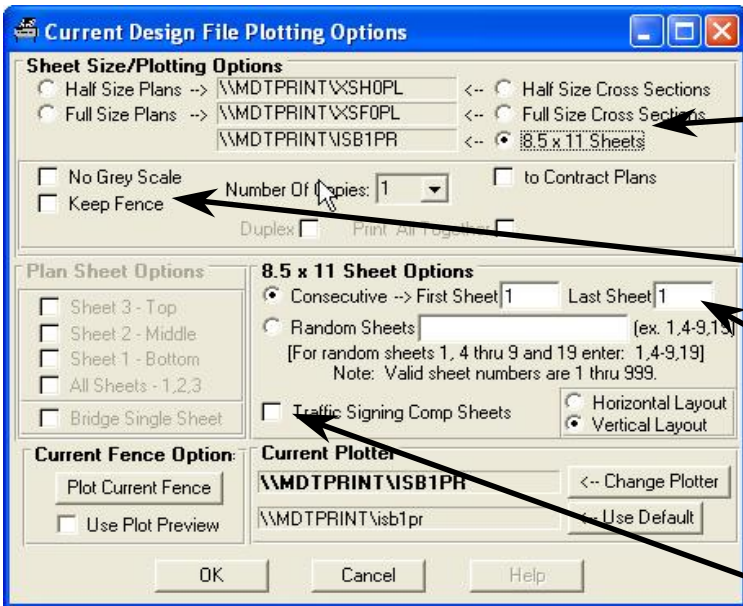


Select Half Size, (default) or Full Size cross-section sheets.

Determine Grey Scale, fence, and copy options.

Select sheets required.

8 1/2 x 11 Traffic Sign Calculation Sheets



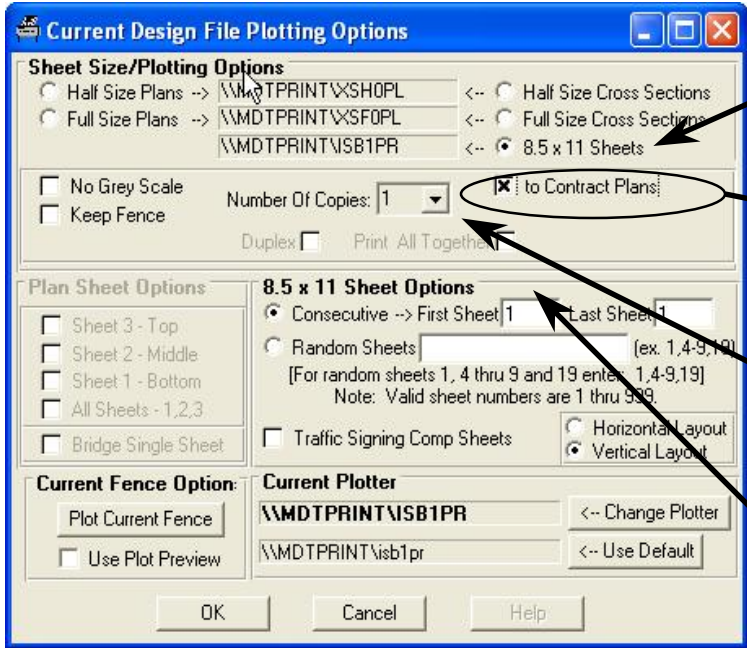
Select 8.5 x 11 sheets.

Determine Grey Scale, fence, and copy options.

Select sheets required

Check if Plotting 8.5 x 11 Sign Design sheets.

8 1/2 x 11 Pavement Preservation Sheets



Select 8.5 x 11 sheets.

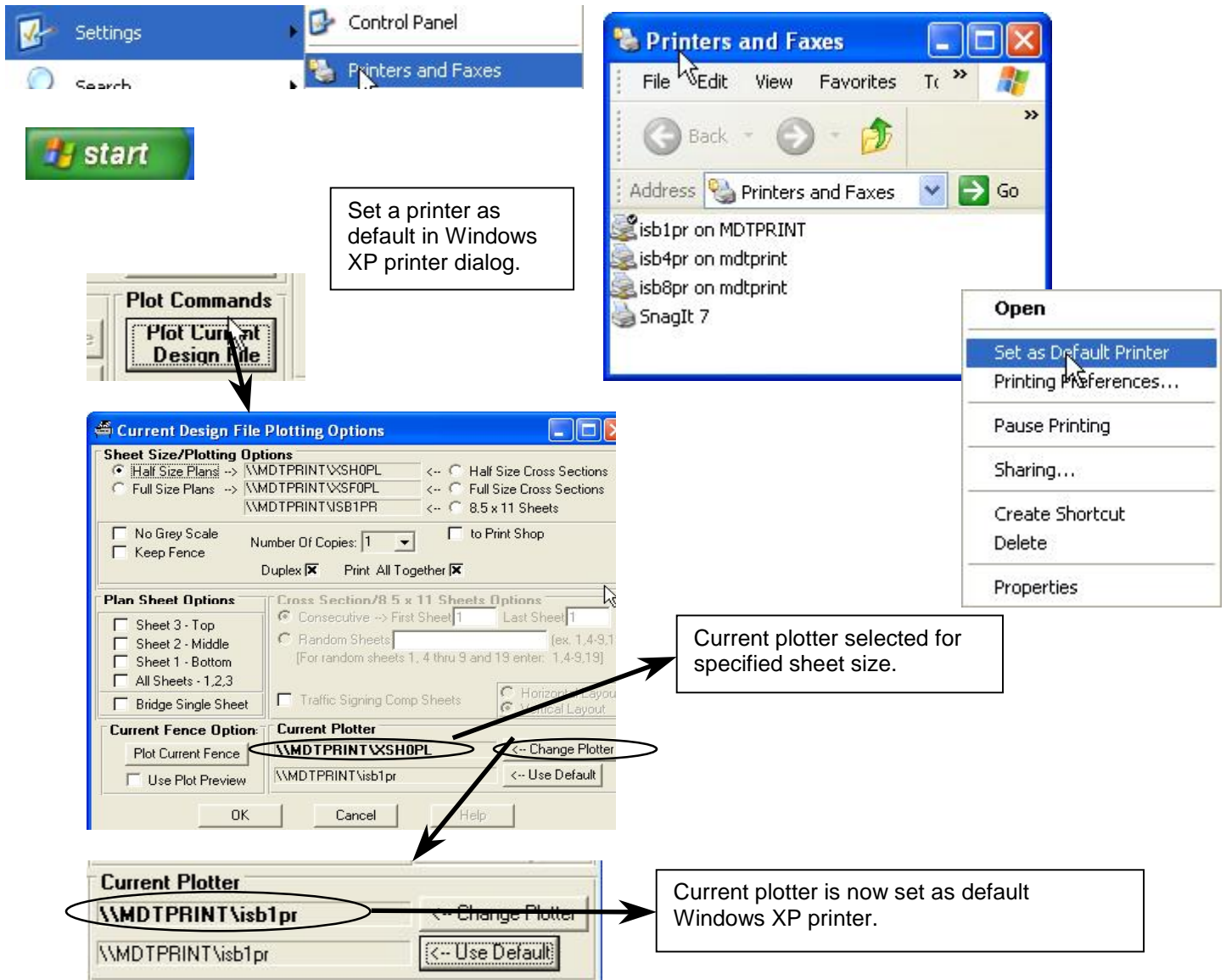
(For creating MS word documents of Pavement Preservation jobs for Contract Plans, see **section 3.14,3.14 Pavement Preservation Projects for Contract Plans , pp 29).**

Determine Grey Scale, fence, and copy options.

Select sheets required

3.5. Select Default Windows XP as Current Plotter

You can set DocuPlot to print directly to your default Windows XP plotter. A plotter must be attached in the printers dialog as default.



3.6. Select Network Half Size Plotter

Half size plotters can be selected for plan sheets or cross sections. Half size plotters are segregated by location (Helena or District), and by work area, (Helena area office or District office).

Plotters *do not* need to be added to the Windows XP printer selections. Plotters are accessed at the server level and not attached locally.

Plot Commands
Plot Current Design File

Select Half Size Plans or half size cross sections

Default DocuPlot Plotters for half size, full size and 8.5 x 11 sheets.
(For default plotter attachments, see section 6.2, U####.ini Plotter Settings, pp 49).

Change Plotter will select a new plotter.
Select Plotter by choosing Helena or District, choosing Design Area and selecting plotter.

Current plotter selected for specified sheet size.

OK sets selected half size plotter as Current Plotter

Current Plotter
\\MDTPRINT\GEO1PR
\\MDTPRINT\sb1pr

3.7. Select Network Full Size Plotter

Full size plotters can be selected for plan sheets or cross sections. Full size plotters are segregated by location (Helena or District), and by work area, (Helena area office or District office).

Plotters *do not* need to be added to the Windows XP printer selections. Plotters are accessed here at the server level and not attached locally.

Plot Commands
Plot Current Design File

Current Design File Plotting Options

Sheet Size/Plotting Options
 Half Size Plans --> \\MDTPRINT\XSHOPL <-- Half Size Cross Sections
 Full Size Plans --> \\MDTPRINT\XSF0PL <-- Full Size Cross Sections
\\MDTPRINT\XSB1PR <-- 8.5 x 11 Sheets

No Grey Scale
 Keep Fence
Number Of Copies: 1
 to Print Shop

Duplex Print All Together

Plan Sheet Options
 Sheet 3 - Top
 Sheet 2 - Middle
 Sheet 1 - Bottom
 All Sheets - 1,2,3
 Bridge Single Sheet

Cross Section/8 5 x 11 Sheets Options
 Consecutive --> First Sheet 1 Last Sheet 1
 Random Sheets [] [ex. 1,4-9,19]
[For random sheets 1, 4 thru 9 and 19 enter: 1,4-9,19]

Traffic Signing Comp Sheets
 Horizontal Layout
 Vertical Layout

Current Fence Option
 Plot Current Fence
 Use Plot Preview

Current Plotter
\\MDTPRINT\XSHOPL <-- Change Plotter
\\MDTPRINT\XSB1PR <-- Use Default

OK Cancel Help

Default DocuPlot Plotters for half size, full size and 8.5 x 11 sheets.
(For default plotter attachments, see section 6.2, U####.ini Plotter Settings, pp 49).

Select Full Size Plans or Full Size Cross Sections

Current plotter selected for specified sheet size.

Change Plotter will select a new plotter.

Select Plotter by choosing Helena or District, choosing Design Area and selecting plotter.

Choose From Available Network Plotters Listed Below

District Plotters - Half Size

BILLINGS: \\BLGNT1\BLG0PL
BOZEMAN: \\MDTNTBMO\MSU2PL
BUTTE: \\BUTNT1\BUT0PL
GLENDIVE: \\GLDNT1\GLD0PL
GREAT FALLS: \\GTFTNT1\GTFOPL
KALISPELL: \\KALNT1\KALOPL
MISSOULA: \\MISNT1\MISOPL

Helena Plotters
 District Plotters

OK Cancel

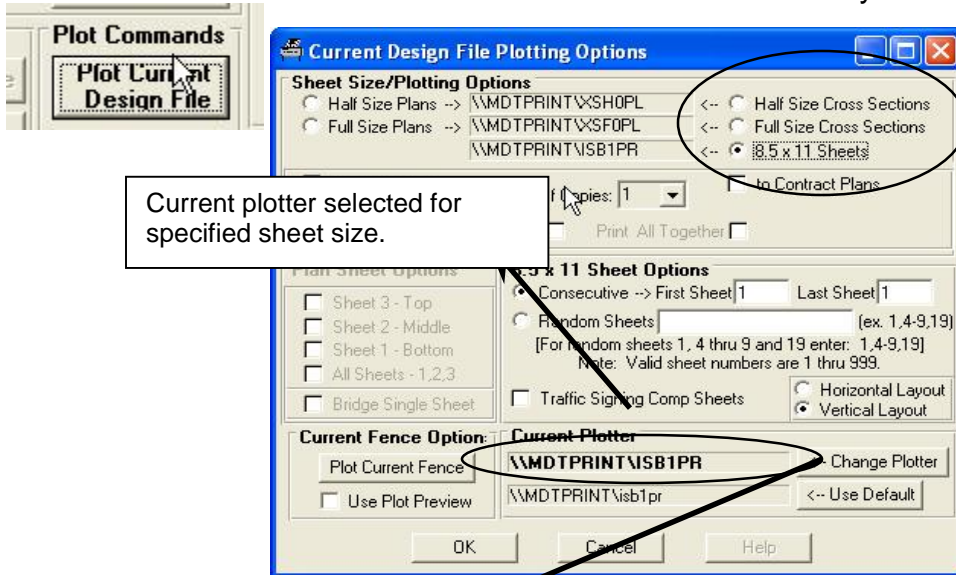
OK sets selected full size plotter as Current Plotter

Current Plotter
\\GLDNT1\GLD0PL <-- Change Plotter
\\MDTPRINT\XSB1PR <-- Use Default

3.8. Select Network 8.5 x 11 Plotter

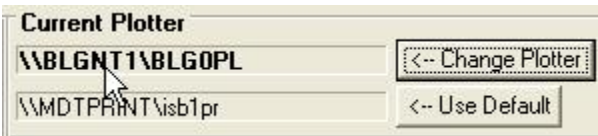
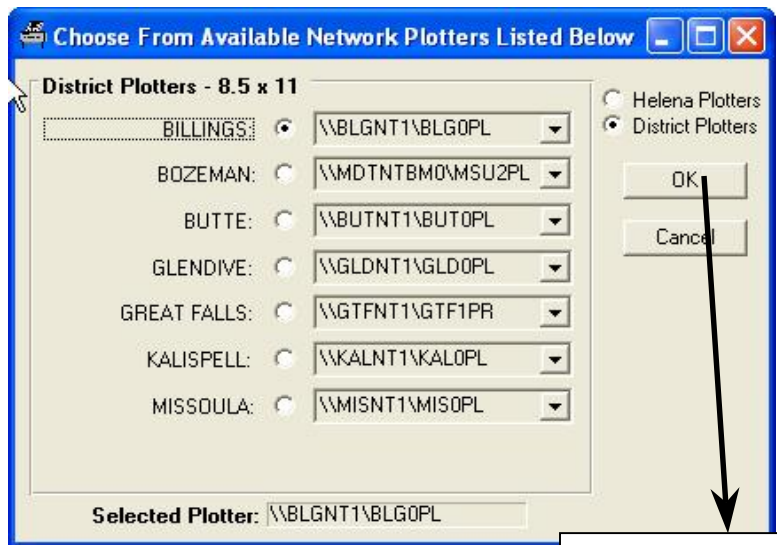
8.5 x 11 plotters can be selected for appropriate sheets. 8.5 x 11 plotters are segregated by location (Helena or District), and by work area, (Helena area office or District office).

Plotters *do not* need to be added to the Windows XP printer selections. Plotters are accessed at the server level and not attached locally.



Default DocuPlot Plotters for half size, full size and 8.5 x 11 sheets.
(For default plotter attachments, see section 6.2, U####.ini Plotter Settings, pp 49).

Change Plotter will select a new plotter.
 Select Plotter by choosing Helena or District, choosing Design Area and selecting plotter.

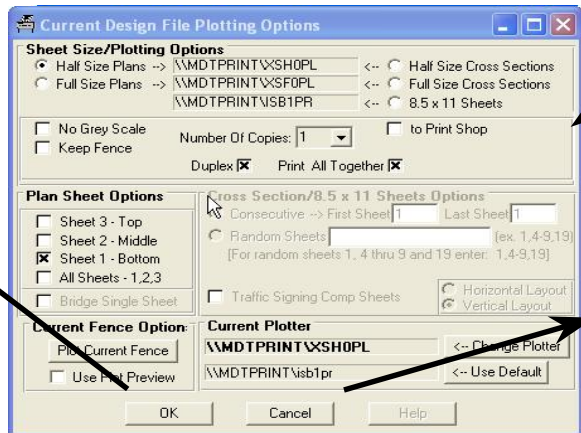


3.9. Submitting Plots Using DocuPlot

Once you selected the sheet size requirements, (size, grey scale, copies) and selected a plotter click OK to submit the plots to the printer queue. DocuPlot activates MicroStation's fence and plot command, submitting the requested plots.

3 sheet plans, single bridge sheets, and 8 1/2 x 11 sheet requests

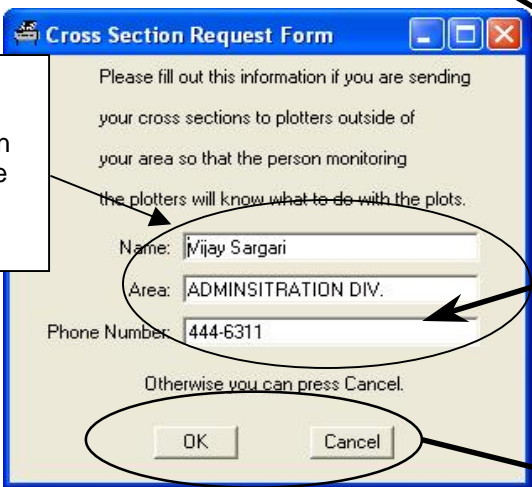
Select OK to print, and return to main DocuPlot dialog.



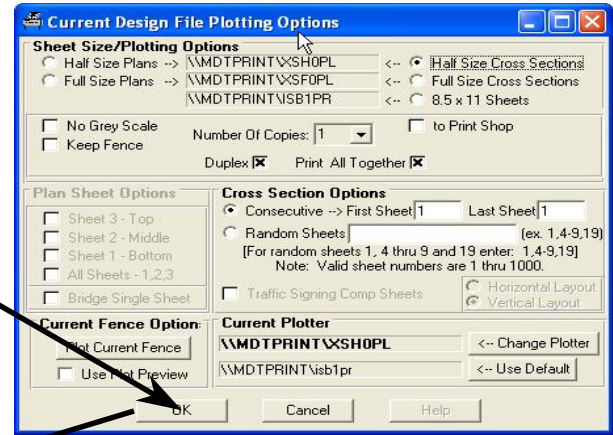
Select Cancel to stop local print option, and return to main DocuPlot dialog.

Half and Full Size Cross section print requests

Select OK, opens the Cross Section Request form



Fill in the required information if using the printers listed



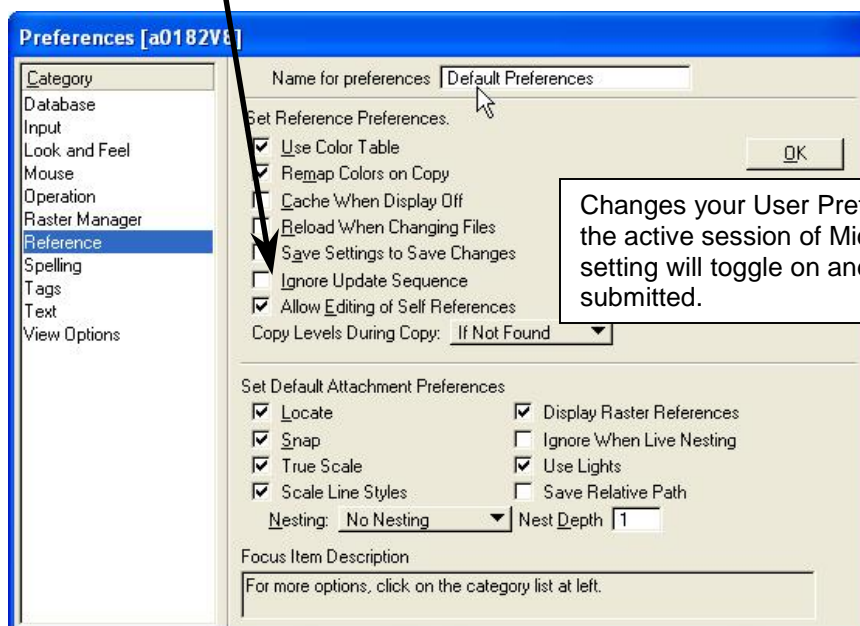
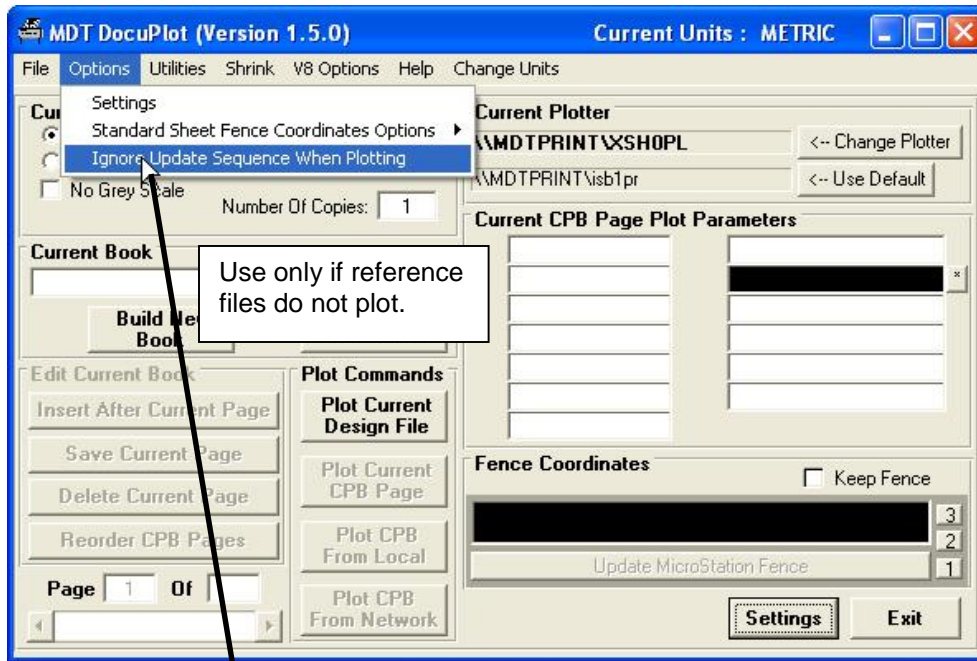
Both OK and CANCEL submit the cross section plot request.

OK – Places a cover sheet with name, area and phone number information in the submit request.

CANCEL – Submits request without cover sheet.

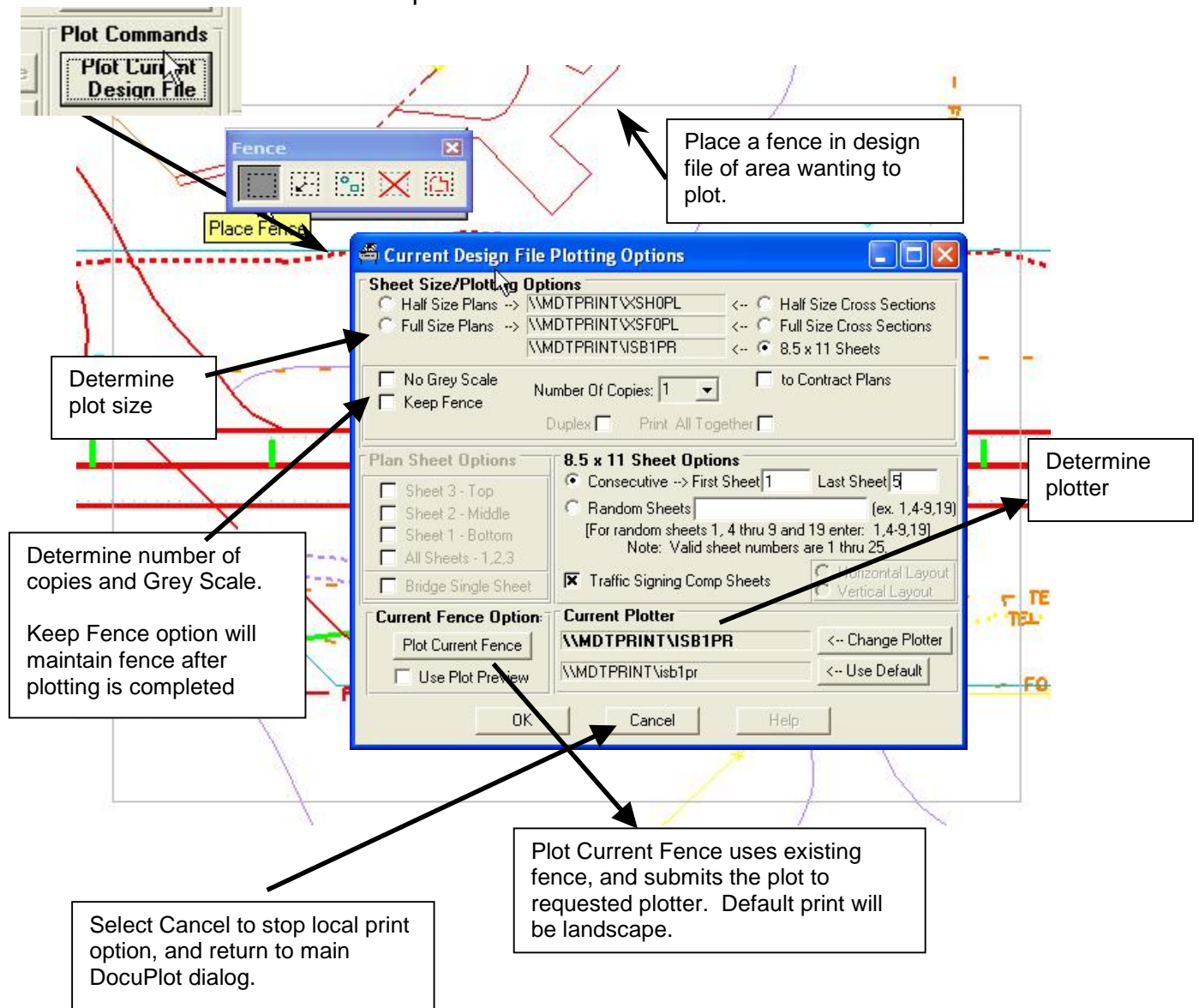
3.10. Reference Files that DO NOT Plot

Occasionally the reference files attached to a design file do not plot. Check first to see if the reference files are named correctly and reside in the c:\dgn\ref subdirectory. If the files simply do not plot, yet show on the MicroStation screen, go to DocuPlot's Utility > Ignore Update Sequence when Plotting. This utility changes a setting in the active session of MicroStation for each plot. After each plot the setting reverts to its default setting.



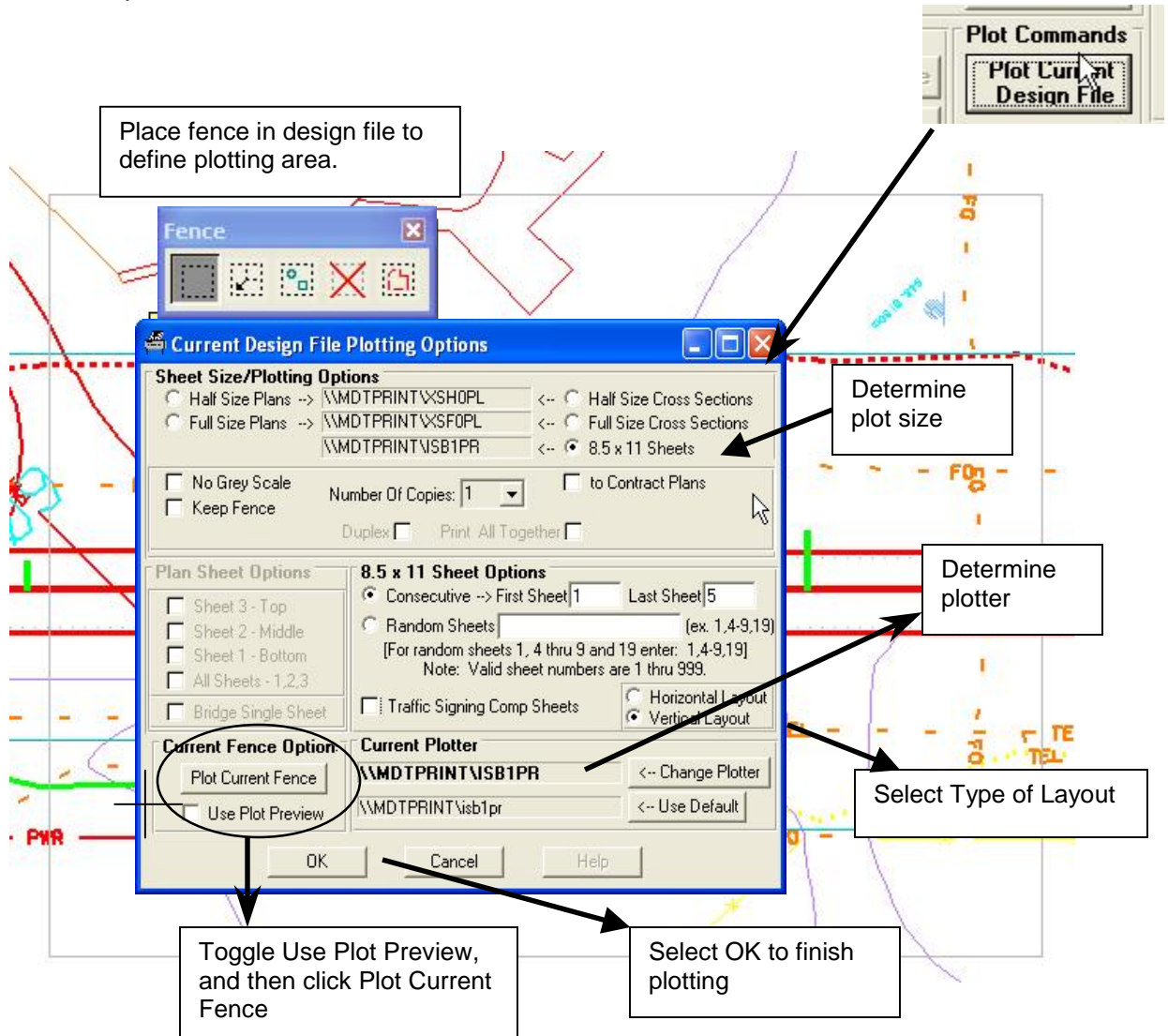
3.11. Plot Current Fence with DocuPlot

After placing a fence in an active MicroStation design file the fence contents can be plotted using the PLOT CURRENT FENCE option. Users can determine Grey Scale and number of copies. The Keep Fence option will keep the fence in place after the plot is submitted. The user can specify the plotter. This command activates MicroStation's fence and plot command, using the existing fence coordinates and submits the plot.



3.12. Preview and Plot Current Fence with DocuPlot

After placing a fence in an active MicroStation design file the fence can be plotted using the PLOT CURRENT FENCE option. Users can preview and rotate the image using MicroStation's Plot Preview dialog. Set the plot requirements in DocuPlot, switch to MicroStation and set the rotation, return to DocuPlot and submit the plot.



3.13. Plot Current Fence with MicroStation

If DocuPlot was used to submit plots, then you decide to plot using MicroStation's plotting command the plotter driver may need to be reset.

Place a fence in design file of area wanting to plot.

Activate MicroStation Print/Plot (Ctrl+P)

Plotter driver will reflect the driver DocuPlot used. Select Plotter Driver icon and change to appropriate driver

Select appropriate Plotter Driver, select OK, and then plot as usual.

NOTE: To plot using MicroStation print/plot the plotter must be attached in the Windows XP printer dialog. (Start>Settings>Printers)

3.14 Pavement Preservation Projects for Contract Plans

Send pavement preservation projects to Contract Plans in a MS Word document containing all the design sheets. This document is created using the 8.5 x 11 sheet size and using the To Contract Plans option. Open a Pavement preservation file in MicroStation, select plot current file, select sheet size and sheets required. Toggle the To Contract Plan option and follow the prompts. A MS Word document is created using plot images from MicroStation and an Outlook message will be sent to Contract Plans.

Current Design File Plotting Options

MicroStation Pavement Preservation design file

Select 8.5 x 11 sheets

Select To Contract Plans to create a MS Word document using Pavement Preservation Sheets.

Determine sheets required to plot for entire project.

Choose a plotter only when needing prints of the project

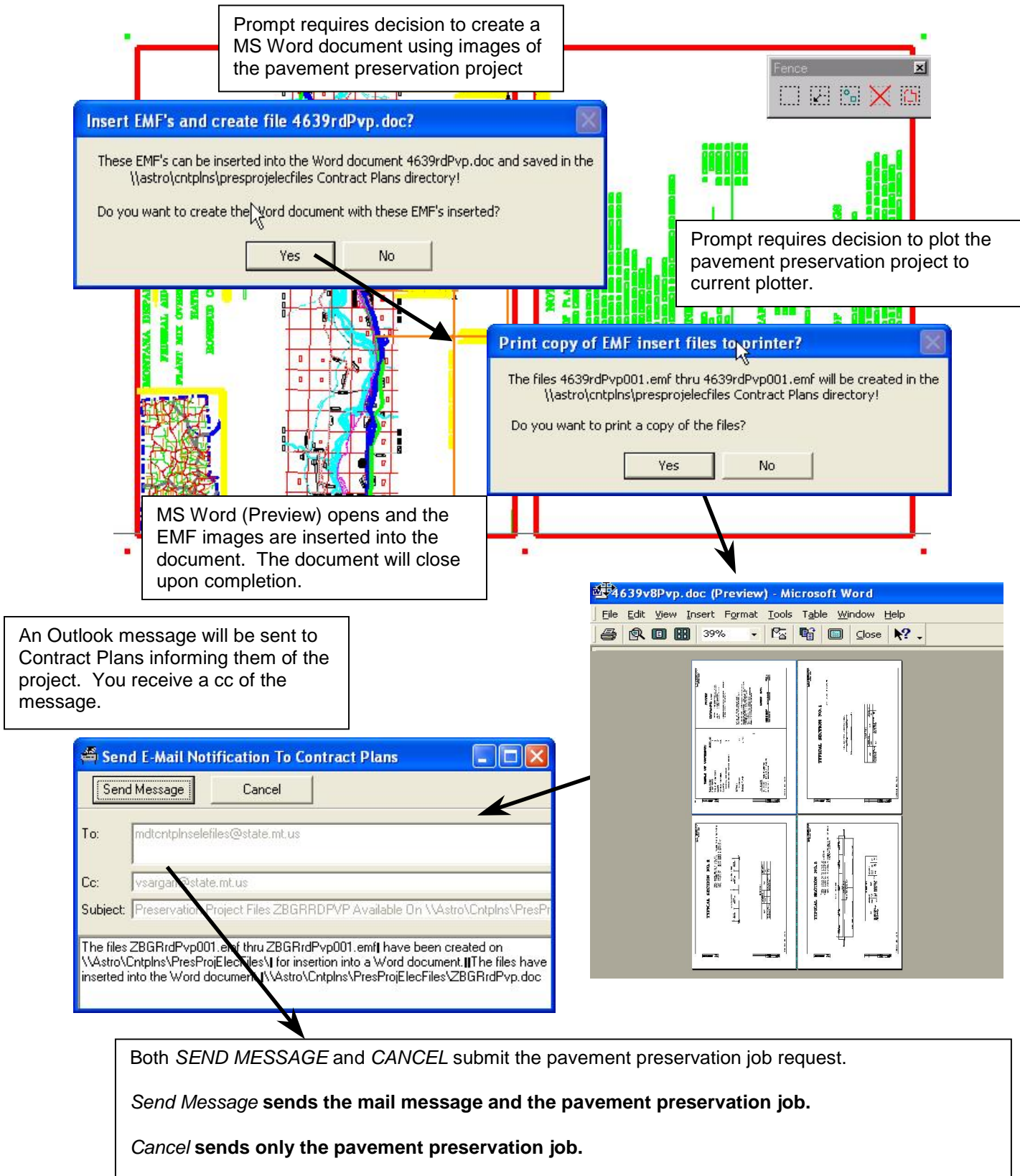
Project Control Number Query

Prompts will be asking for control number, design area and class type. These prompts build the file name for a MS Word Document.

Work Area Abbreviation Query

Class Type Abbreviation Query

CONTINUED ON NEXT PAGE

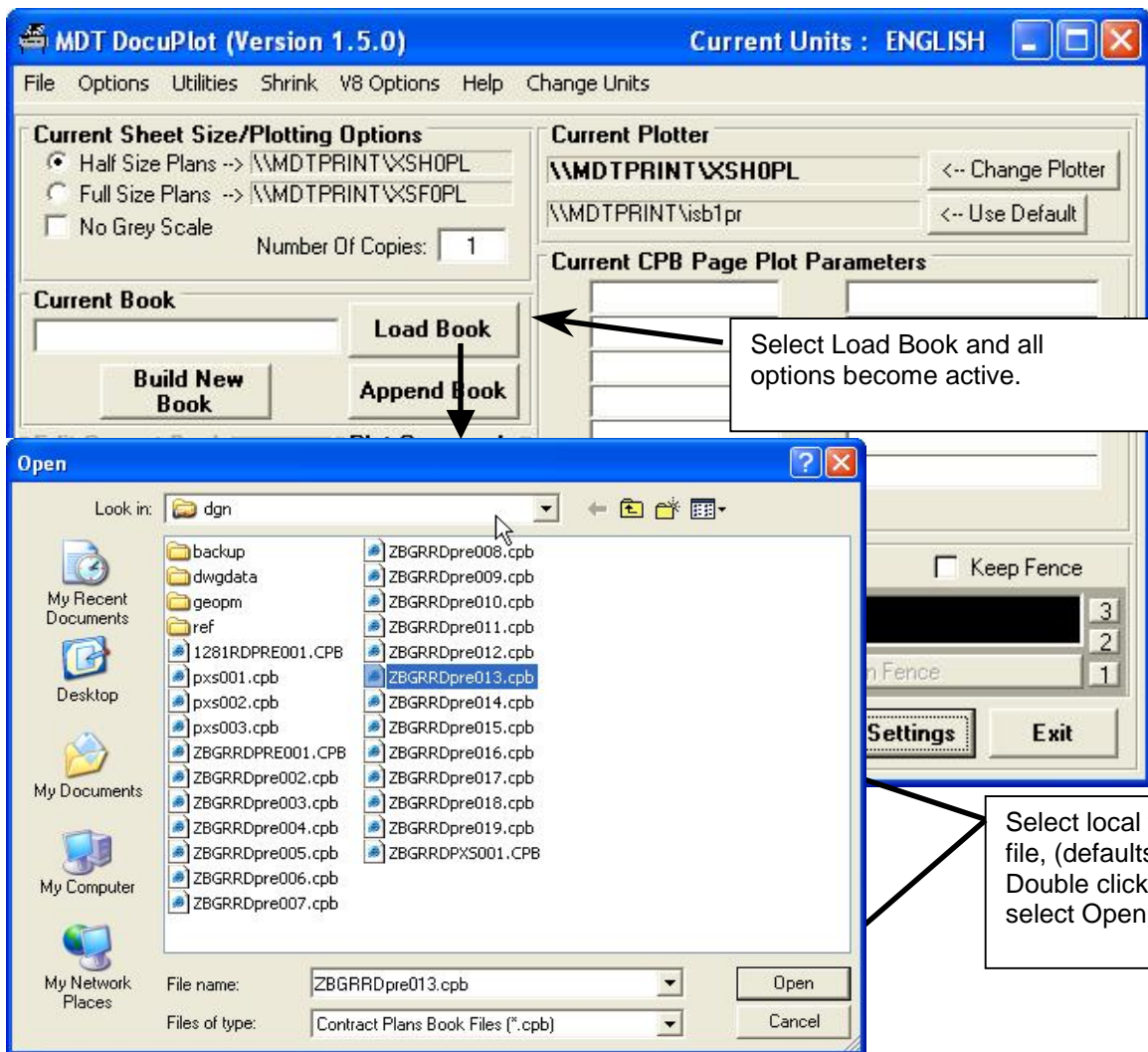


4. LOAD EXISTING CONTRACT PLANS BOOK

A Contract Plans Book is an electronic MicroStation plan sheet record containing sequential page information. Each CPB page is a record of the CADD server, the MicroStation design file, and specific fence coordinates for the plan sheet.

4.1. Load Existing Contract Plans Book (CPB)

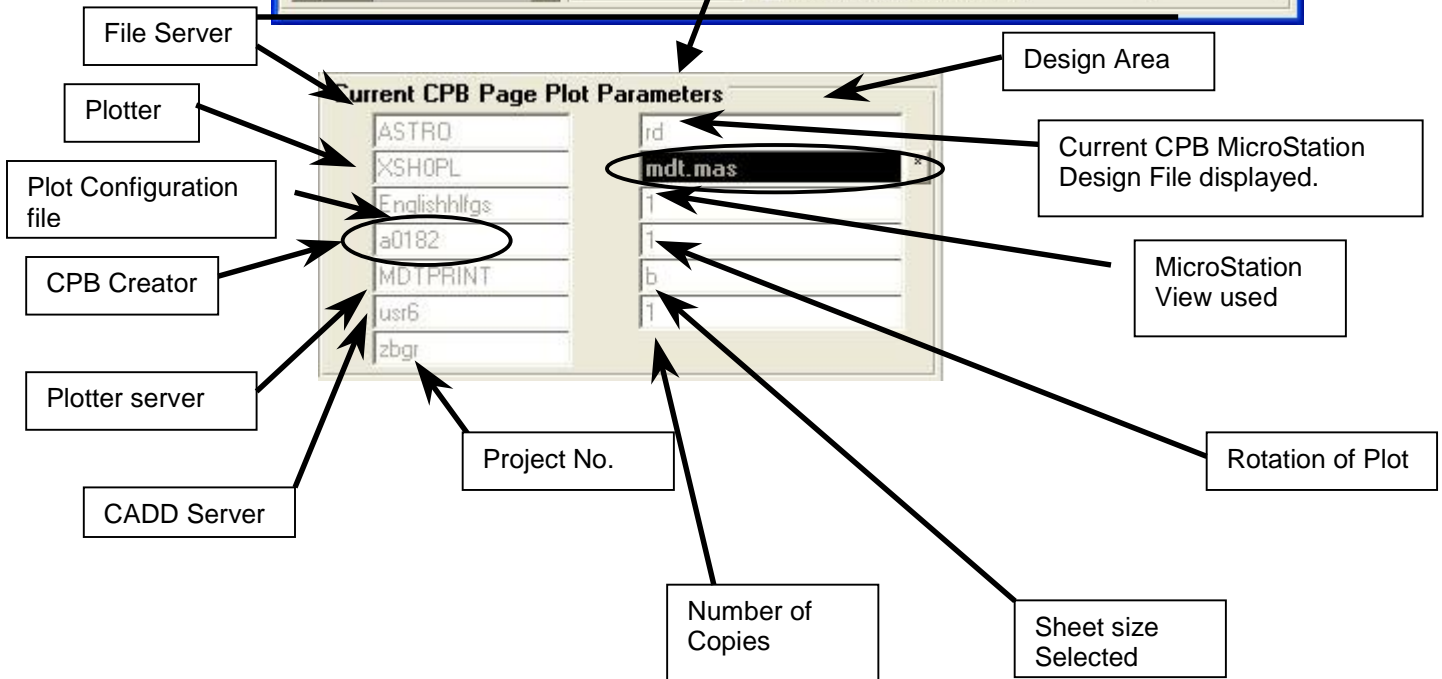
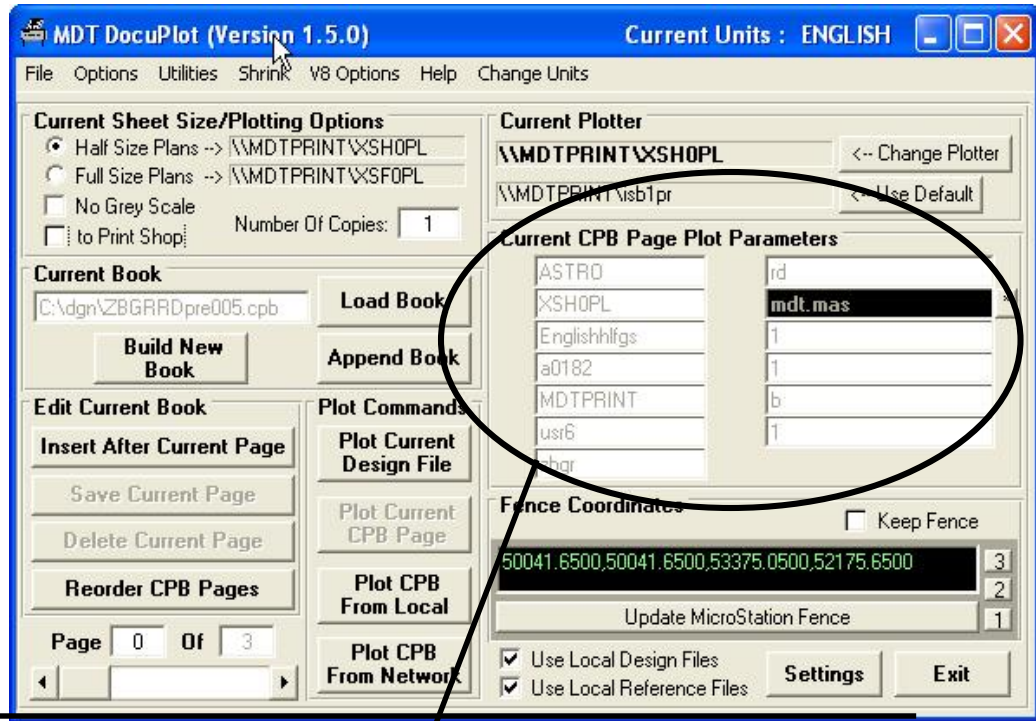
A CPB is normally stored on a CADD server, in the appropriate Project \ Design area. Copy the CPB from the CADD server to the local c:\dgn directory using DMS.



NOTE:
Filter set to display only *.cpb files

4.2. Loaded Contract Plans Book Parameters

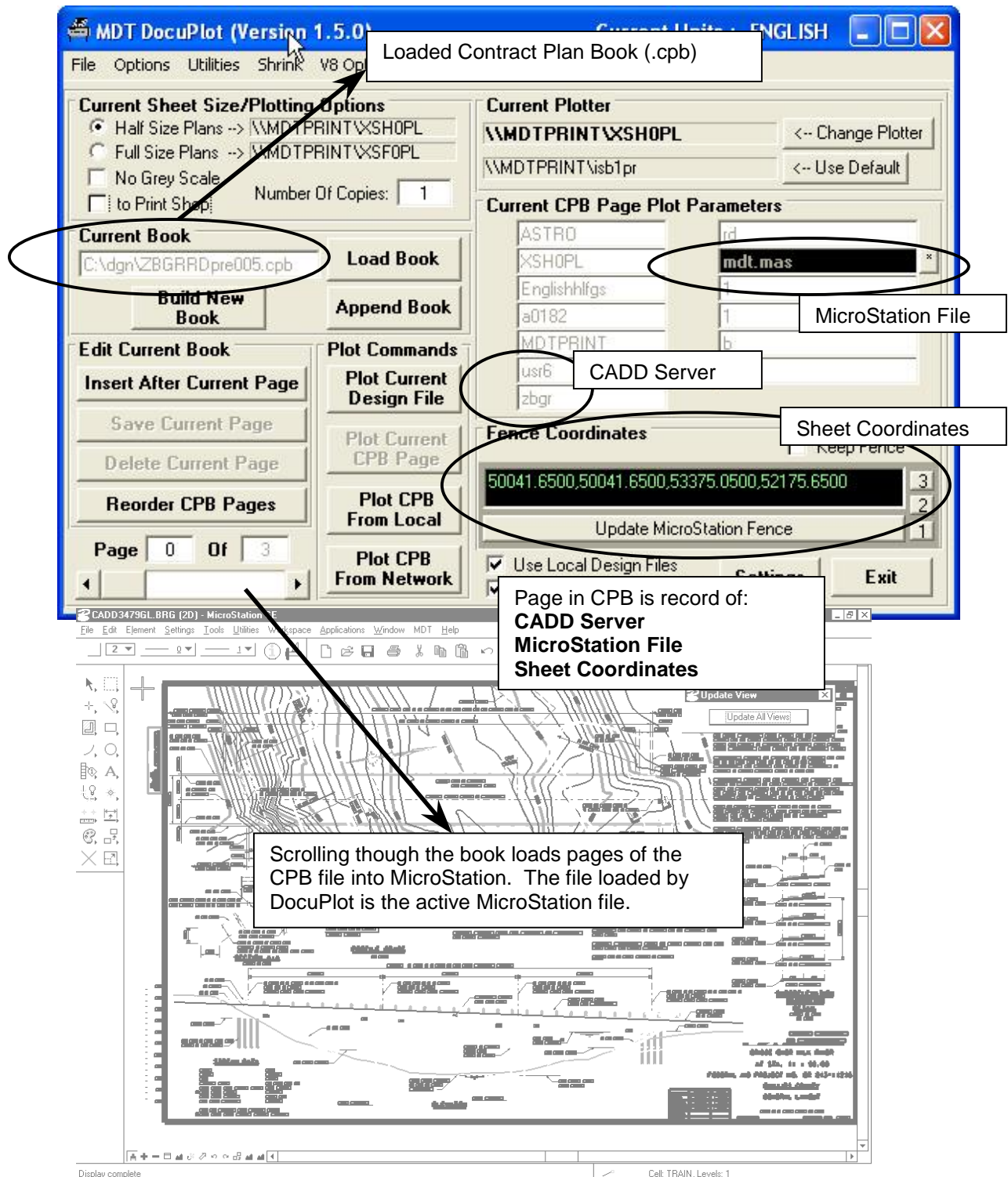
Each CPB had individual parameters that are stored in the electronic book.



NOTE:
 All items grayed out cannot be changed. This portion of the DocuPlot Screen is for user information. Changes made in other DocuPlot dialogs will appear in this screen.

4.3. Loaded Existing Cpb File

A CPB is an electronic database that is loaded into DocuPlot. A CPB remembers only three pieces of information; (1) CADD server, (2) MicroStation file and (3) sheet coordinates.



4.4. CPB and MicroStation Design Files

The CPB is only a record of the CADD server, file name and the coordinates of specific sheets. The MicroStation Design files must be in the local C:/dgn directory and the attached reference files must be in the c:\dgn\ref subdirectory. If the files are not local they must be copied from the CADD server. To determine the files needed on the local drive check DocuPlot's List Contract Plan Book Page Information utility.

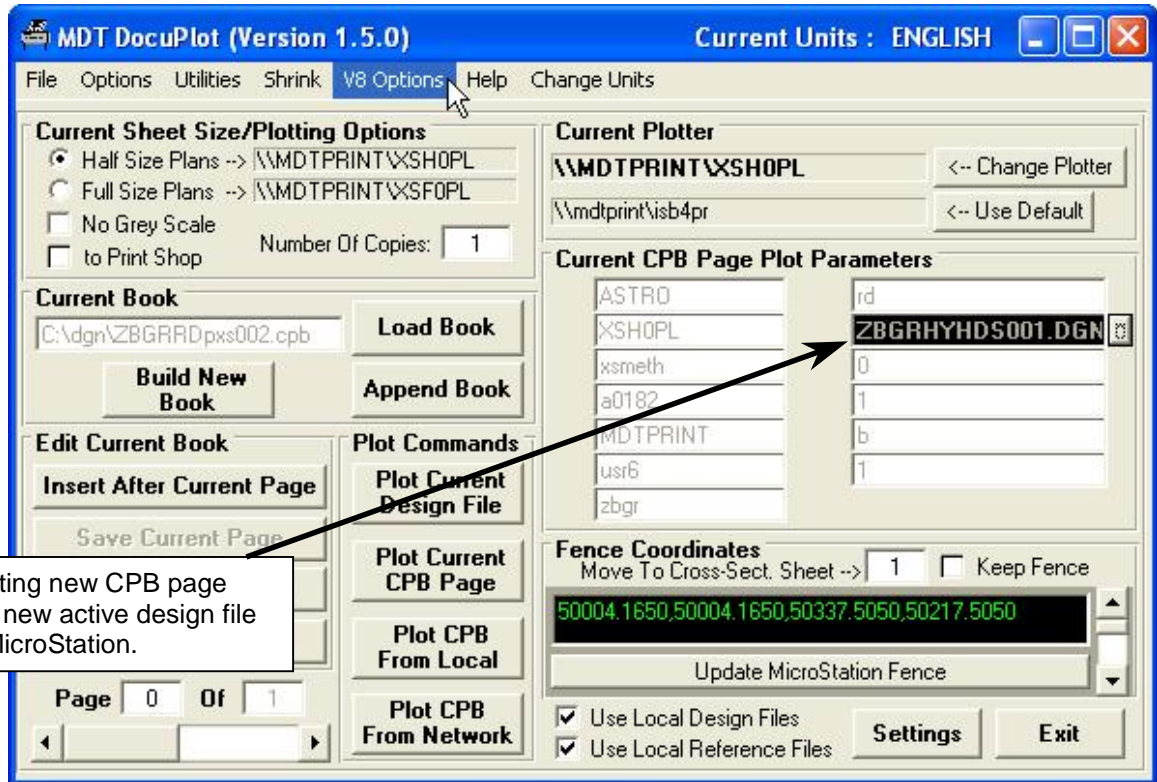
A *.lst file is created on the c:\dgn directory. This file lists the Project, Design Area, and File. Copy files from CADD server to the local c:\dgn drive. The attached reference files will be copied to the c:\dgn\ref directory

Page	Proj	Area	File Name	Sheet #
1	zbgr	rd	ZBGRRDPLN01E.DGN	1
2	zbgr	rd	ZBGRRDPLN01E.DGN	2
3	zbgr	rd	ZBGRRDPLN01E.DGN	3

List of files needed on the local c:\dgn (Call CADD Support for File Transfer Information.)

4.5. Paging through an Existing CPB File

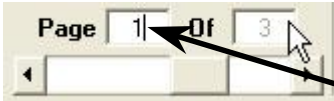
Similar to a traditional paper book, the user may flip through pages in an electronic Contract Plan Book. In order to page though all pages the files and reference files must exist on the local PC.



Selecting new CPB page loads new active design file into MicroStation.



Select new page by sliding scroll bar.



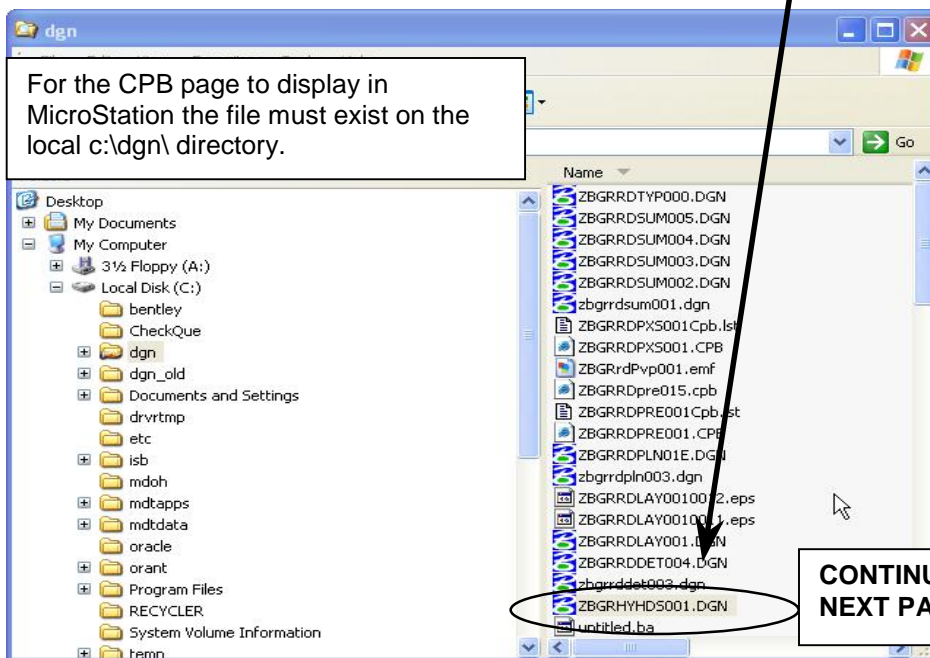
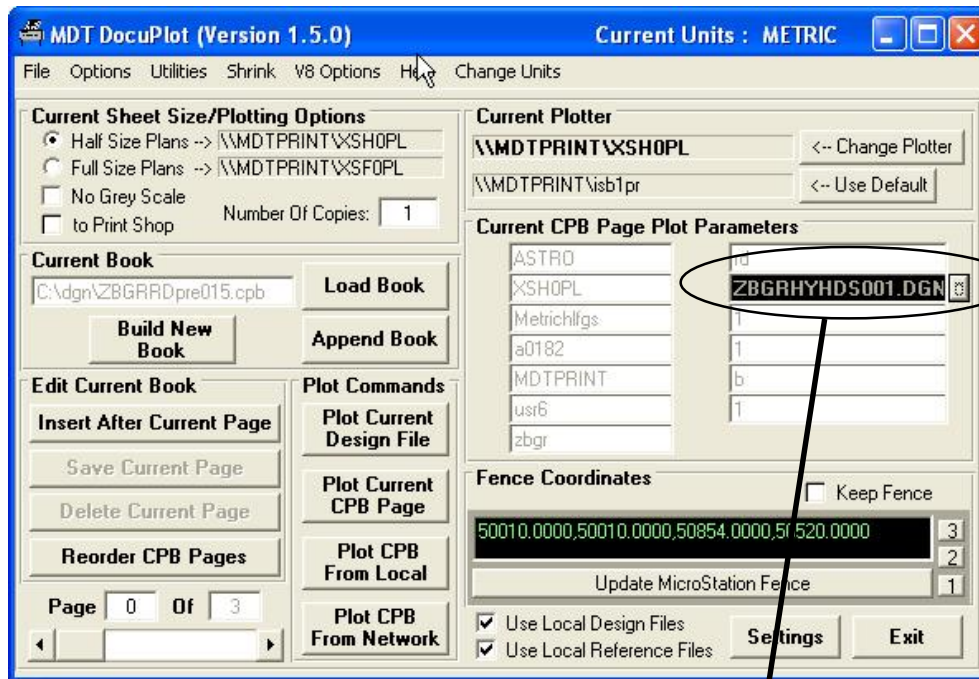
Select new page by key in.

NOTE:
Each time a new page is selected, the design file is loaded into MicroStation. The file and any reference files must exist in the appropriate local PC directory.

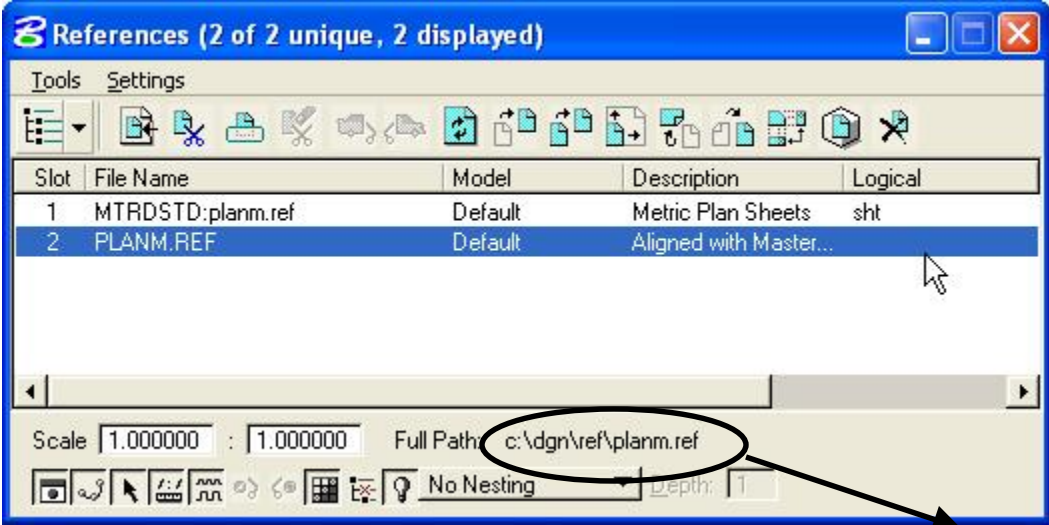
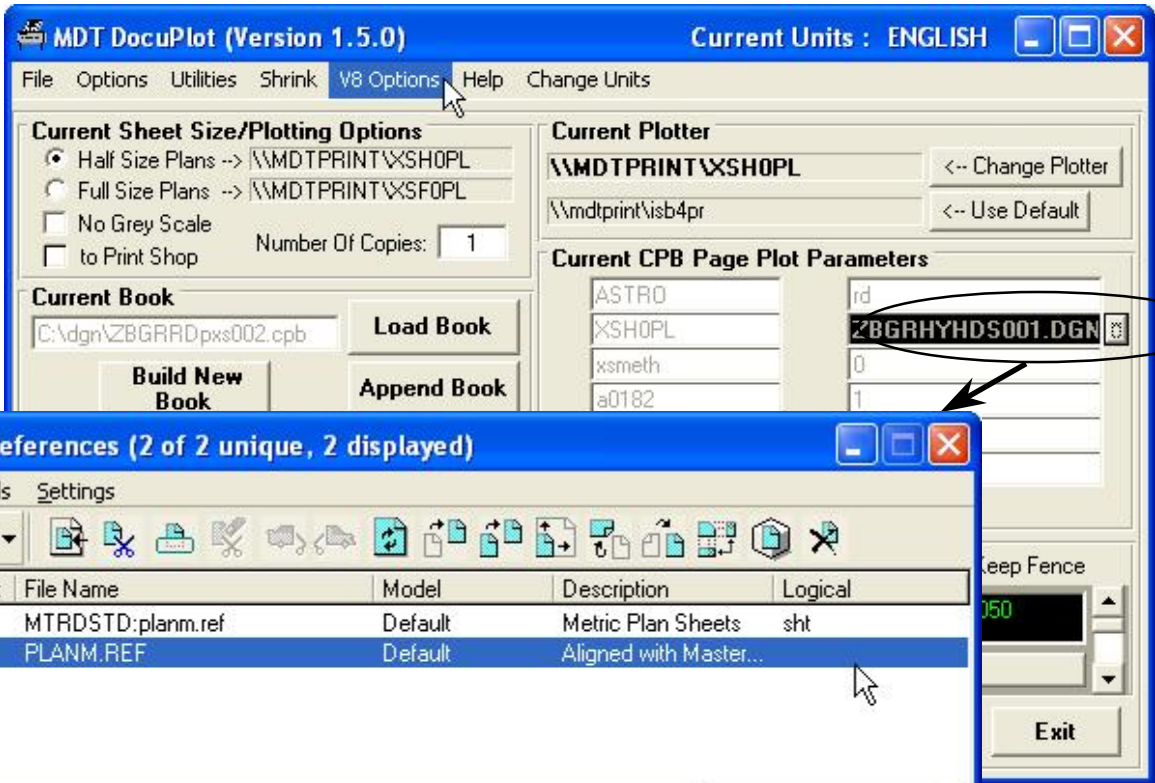
4.6. Location of CPB Design and Reference Files

When DocuPlot opens a new CPB page, MicroStation loads the active design file and attached reference files. The active file must be in the local c:\dgn\ directory. The reference files must be in the local c:\dgn\ref directory.

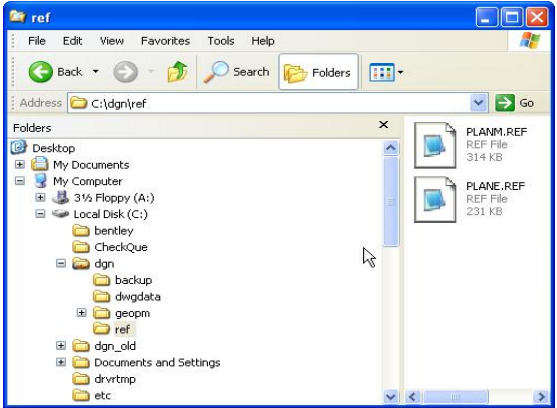
MICROSTATION DESIGN FILES



MICROSTATION REFERENCE FILES



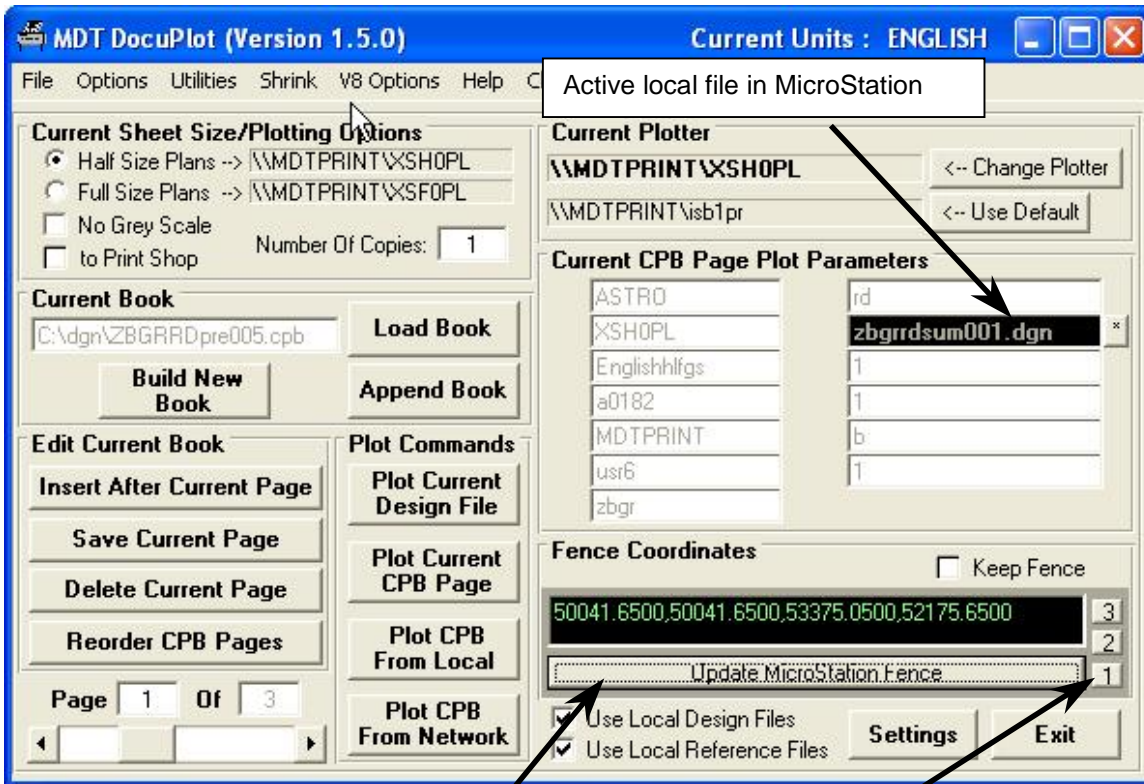
The Reference File window can be opened by going to MicroStation and clicking on File>Reference.



For the CPB page to display the reference files in MicroStation, the files must exist on the local c:\dgn\ref directory.

4.7. Paging through an Active Design file in a CPB

You may view standard metric sheets in an active MicroStation design file while in CPB.

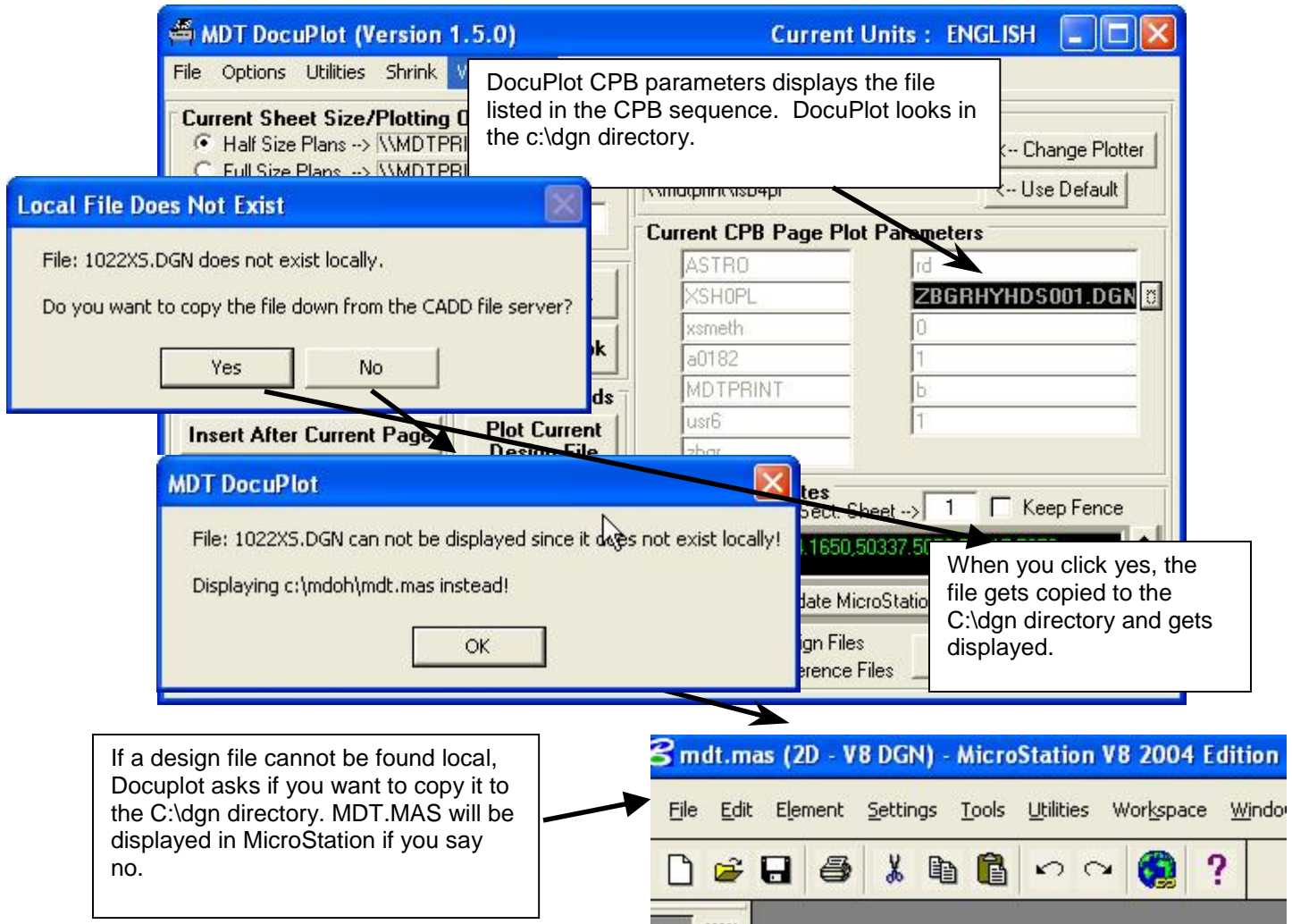


Update MicroStation Fence works like MicroStation refresh view command however does not minimize the DocuPlot dialog.

Sheet buttons allow paging to specific metric sheets. This option is independent of the CPB file.

4.8. Design File Not Found

When DocuPlot cannot find a file in the local c:\dgn directory, DocuPlot will display MDT.MAS. Fixing this situation requires placing the file in the local c:\dgn directory.



5. PLOTTING EXISTING CPB

A contract plan book has versatility in how it is plotted. A book may be loaded into DocuPlot at the local level and plotted by page, by series of pages, or in it's entirety using local files or server files. DocuPlot will also launch plots entirely from the server, never using MicroStation files at the local level.

5.1. Four Plotting Options

DocuPlot can plot standard sheets from any local MicroStation design file, and supports three CPB plotting options.

The screenshot shows the MDT DocuPlot (Version 1.5.0) interface. The 'V8 Options' menu is open, showing four options: 'Plot Current Design File', 'Plot Current CPB Page', 'Plot CPB From Local', and 'Plot CPB From Network'. Each option is circled and has a callout box with a number and a description.

1 PLOT CURRENT DESIGN FILE
Functions like MicroStation's fence and plot. Plots only local copy of the files.

2 PLOT CURRENT CPB PAGE
Plots the current CPB page, (design file sheet) displayed in MicroStation. The file plotted is the local version.

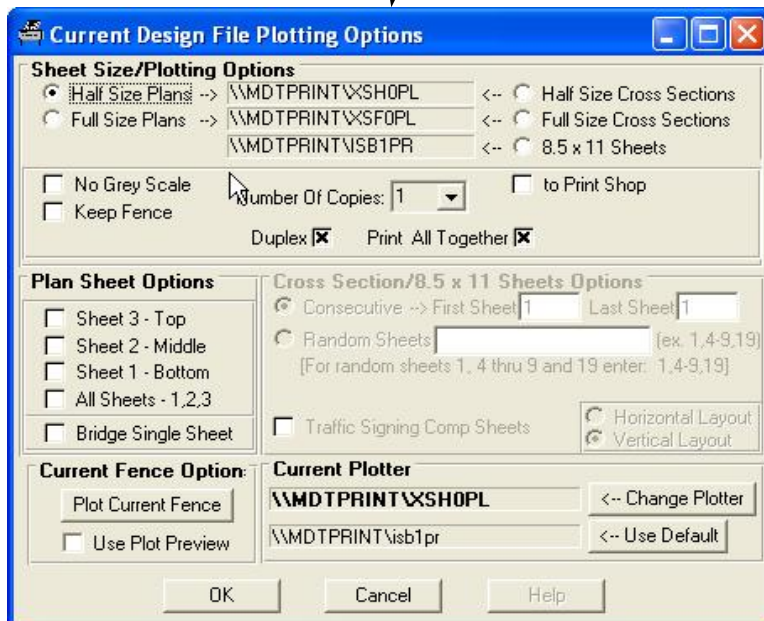
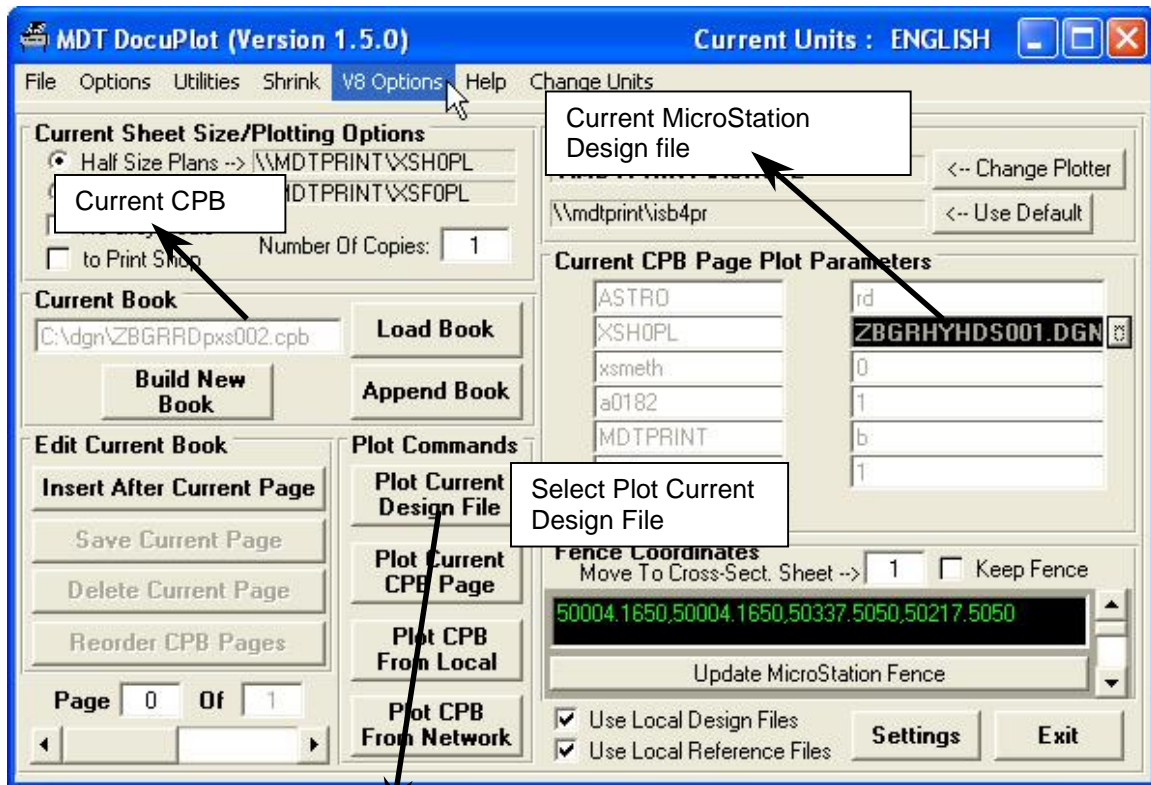
3 PLOT CPB FROM LOCAL
Plots the pages requested from the CPB. Loads each design file and reference files in MicroStation, creates plot files of requested sheets and submits to plotter.

4 PLOT CPB FROM NETWORK
Plots pages requested from the CPB from files located on the server. Uses the current version of the design file and reference files located on the server. Does not bring files up to local machine.

5.2. Plot Current Design File

DocuPlot's Local plotting option allows MicroStation users the ability to plot any MDT standard sheet format. This includes metric three-sheet files, single metric bridge files, metric GeoPak cross section files, 8.5 x 11 pavement preservation files, and 8.5 x 11 traffic sign design calculations. The design file must be active in MicroStation in order for the local plotting option to work.

(See section 3, LOCAL PLOTTING, pp14 - 29)



5.3. Plot Current CPB Page

DocuPlot will plot the current CPB page displayed in MicroStation. Default local and network plotter settings are determined in the plot parameter dialog and are independent of the CPB.

Determine half or full size plans, grey scale, and number of copies

Change Plotter, use default Windows XP plotter, or use current plotter.

Active MicroStation file

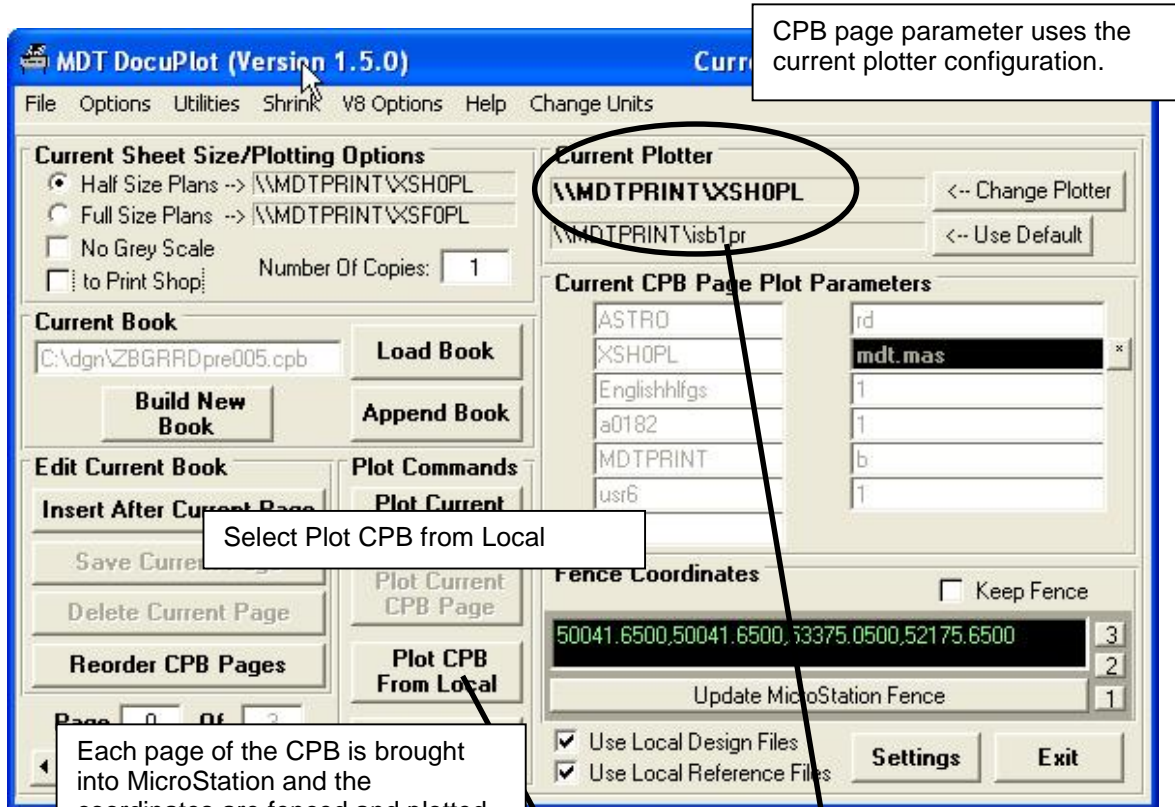
Current CPB page

Current MicroStation coordinates

Select Plot Current CPB Page. A fence plot of the MicroStation coordinates is sent to the selected plotter. The local file is plotted, not the file on the CADD Server. All files and reference files must be on the local c: drive.

5.4. Plot CPB from Local (CPB Parameters)

DocuPlot will plot specified pages of the local CPB. DocuPlot allows for selecting CPB page parameters or check plot parameters. DocuPlot brings each local design file, and specific sheets associated with the CPB into MicroStation. MicroStation fences and plots the contents, and submits the file to the plotter.



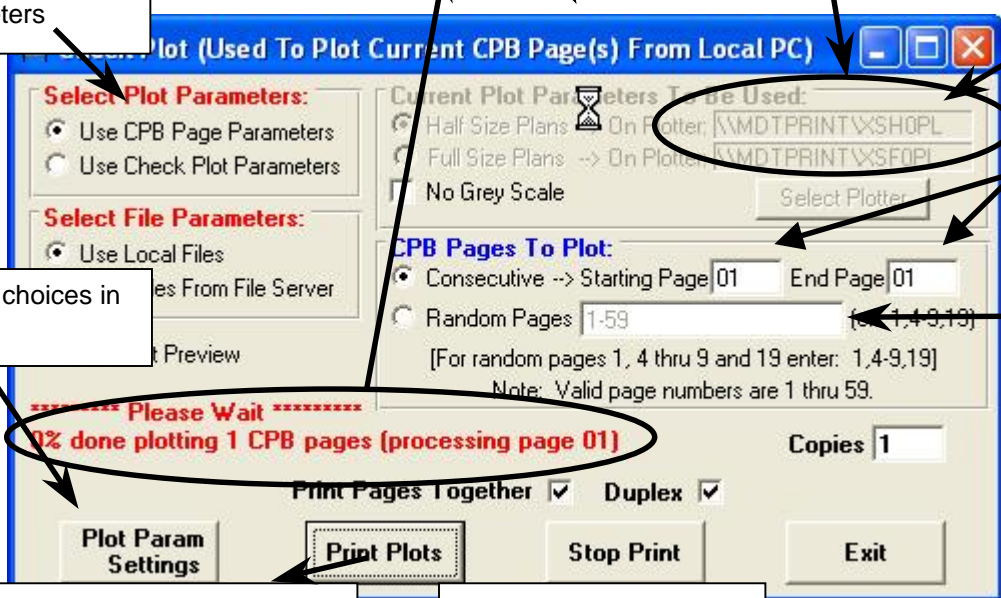
CPB page parameter uses the current plotter configuration.

Select Plot CPB from Local

Each page of the CPB is brought into MicroStation and the coordinates are fenced and plotted.

Select CPB Page Parameters

No options to pick a different plotter.



Link to plotter choices in user settings

Consecutive allows user to print consecutive sheets.

Random determines range of sheets and random pages to plot.

Number of copies. (maximum 10).

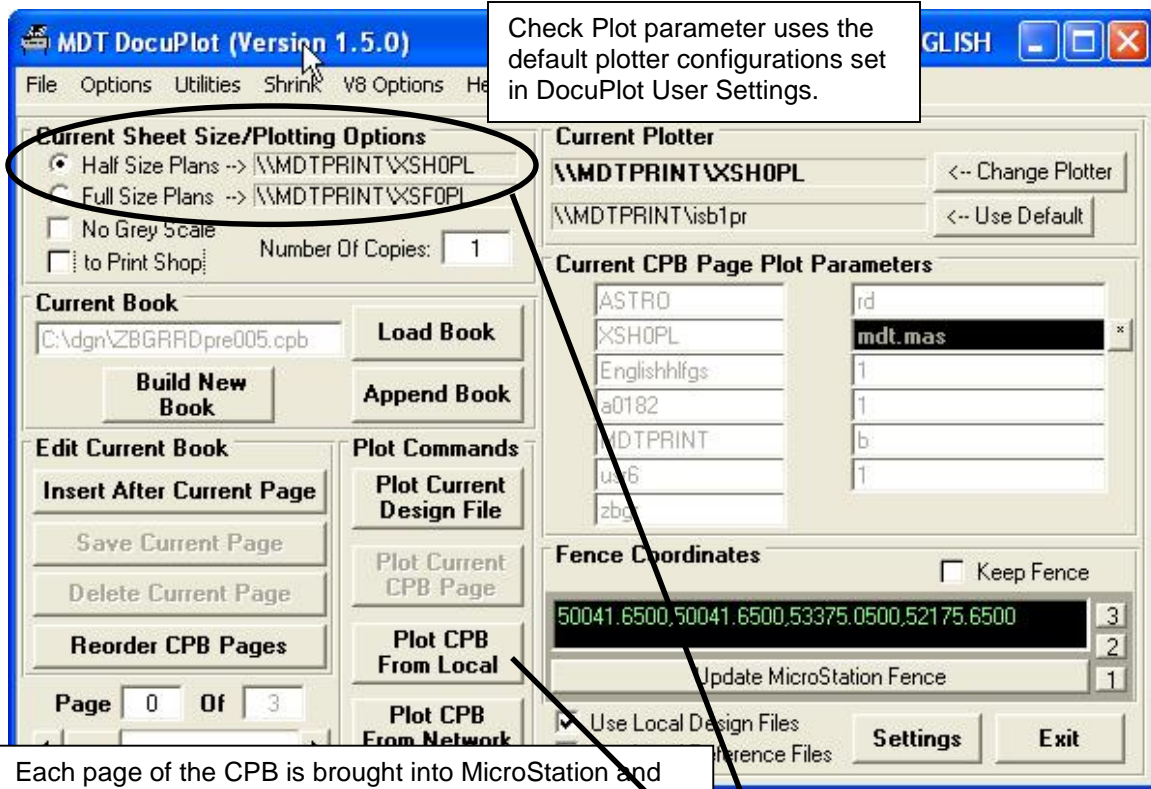
Print Plots starts the local fence plotting

Stop Prints cancels the print request.

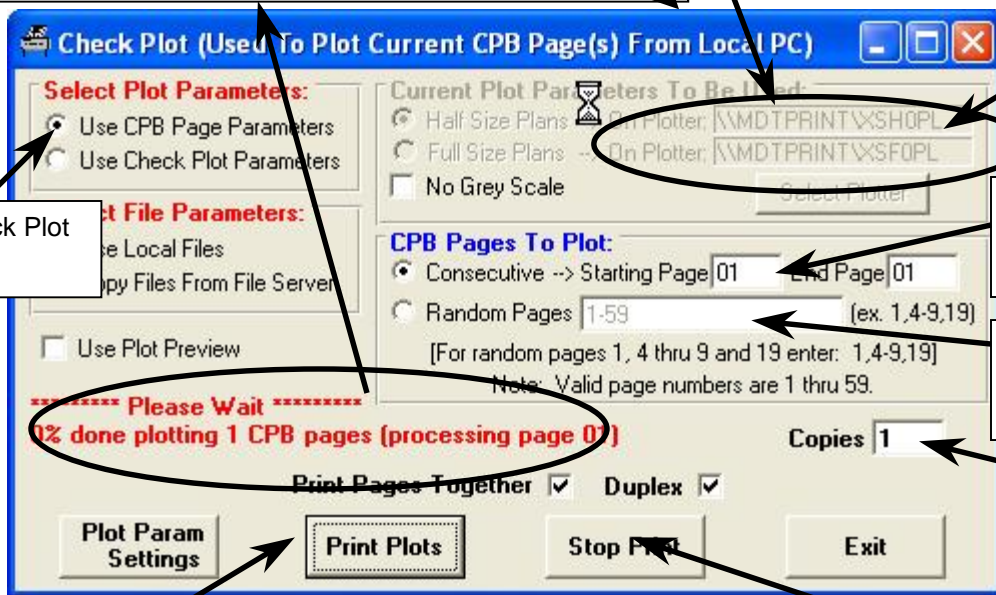
Exit returns to main DocuPlot screen

5.5 Plot CPB from Local (Check Plot Parameters)

DocuPlot will allow the user to select any plotter at the check plot dialog or permanently change the plotter default settings.



Each page of the CPB is brought into MicroStation and the coordinates are fenced and plotted.



Select Check Plot Parameters

Options to pick a different plotter.

Consecutive allows user to print consecutive sheets.

Random determines range of sheets and random pages to plot.

Number of copies. (maximum 10).

Select Print Plots to start fence plotting process.

Select Stop Print to abort Plotting process.

5.6. Plot CPB From Network

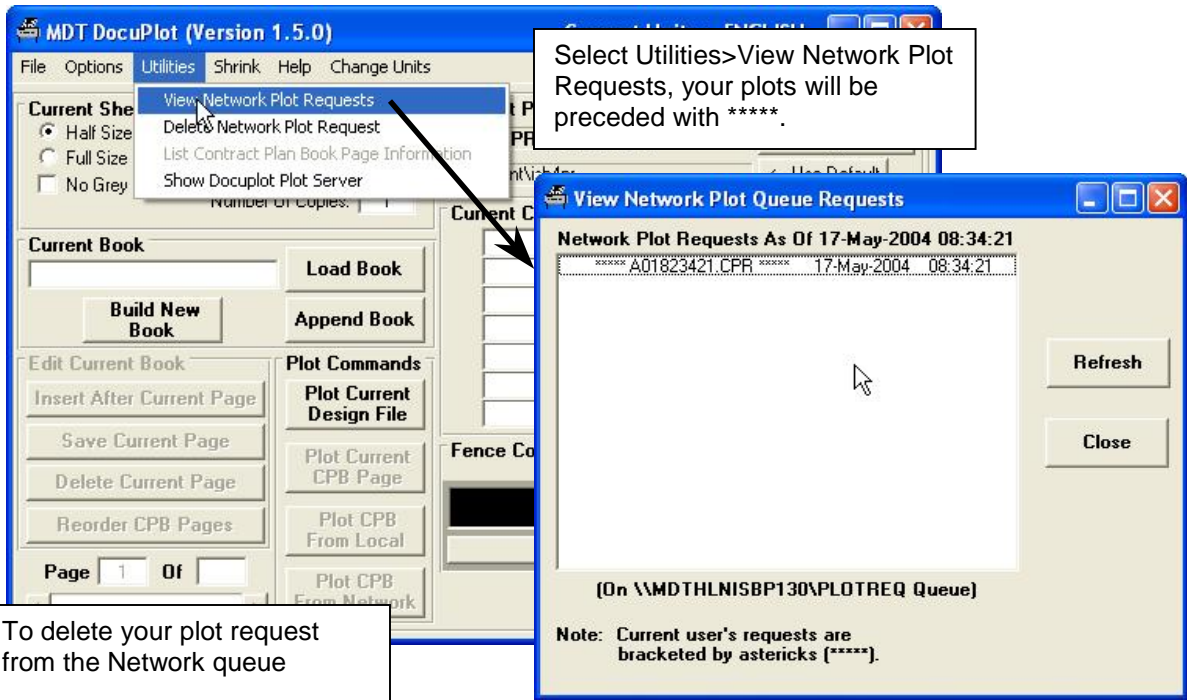
DocuPlot will plot specified pages of the server files in the CPB. DocuPlot allows for choosing plot size, Grey Scale, plotter, specific sheets and number of copies. DocuPlot plots from the server and submits the file to the plotter. *The files are never brought into the local version of MicroStation.*

The screenshot shows the MDT DocuPlot (Version 1.5.0) interface. The main window has a menu bar (File, Options, Utilities, Shrink, V8 Options, Help, Change Units) and several panels. The 'Current Book' panel shows the file path 'C:\dgn\ZBGRRDpre005.cpb'. The 'Current Plotter' panel shows 'ASTRO' and 'rd'. The 'Current CPB Page Plot Parameters' panel shows 'ZBGRRDpre005.cpb'. The 'Fence Coordinates' panel shows '50041.6500,50041.6500,53375.0500,52175.6500'. The 'Plot CPB From Network' button is highlighted with a callout: 'Select Plot CPB from Network'. The 'Submit Plots' button is highlighted with a callout: 'Submit Plots sends plot request to the network server.' The 'Network Plot (Submit CPB Page(s) for Network Plot...)' dialog box is open, showing 'Current Plot Parameters To Be Used' (Half Size Plans, On Plotter: \\MDTPRINT\XSHOPL), 'CPB Pages To Plot' (Consecutive, Starting Page: 01, End Page: 01), 'Print Pages Together' (checked), and 'Copies' (1). Callouts explain: 'Options to pick a different plotter.' (pointing to 'Select Plotter'), 'Consecutive allows user to print consecutive sheets.' (pointing to 'Consecutive'), 'Random determines range of sheets and random pages to plot.' (pointing to 'Random Pages'), and 'Number of copies. (maximum 10).' (pointing to 'Copies'). The 'Network Plot Requests' dialog box is also visible, showing a request for 'A01820450.CPB' at '14-May-2004 16:04:50' in the '(0)\\MDTHLNI8BP130\PLOTREQ Queue'. A callout explains: 'Dialog showing the request sitting on the Network Plot Queue. Choose close and you are returned to main DocuPlot Screen.' The status bar at the bottom shows '(0)\\MDTHLNI8BP130\PLOTREQ Queue' and a note: 'Note: Current user's requests are bracketed by asterisks (*****).'

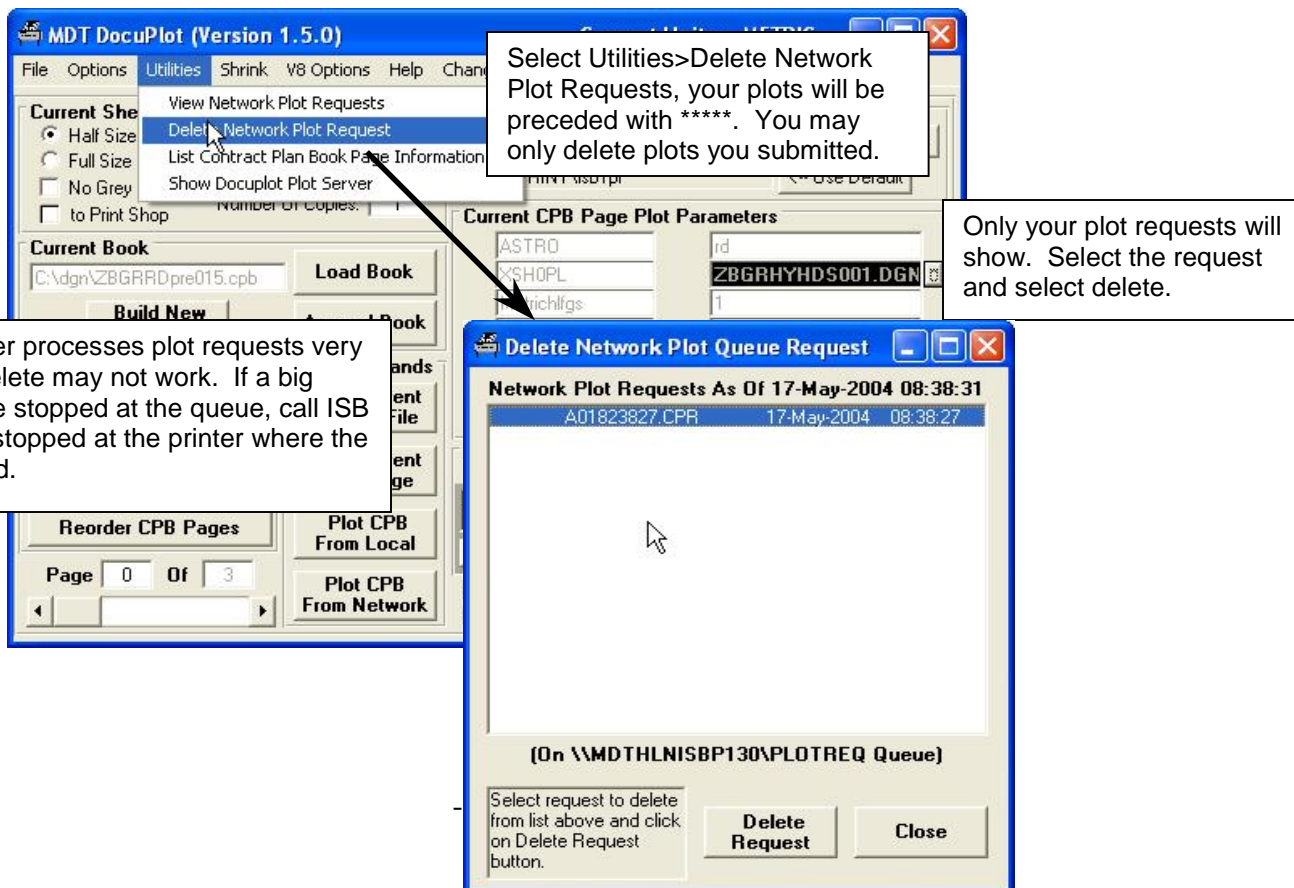
5.7. Viewing and Deleting Network Plot Requests

You can view the plotting queue and see all network plot requests. Plot requests that you sent can be deleted.

To View the Network queue



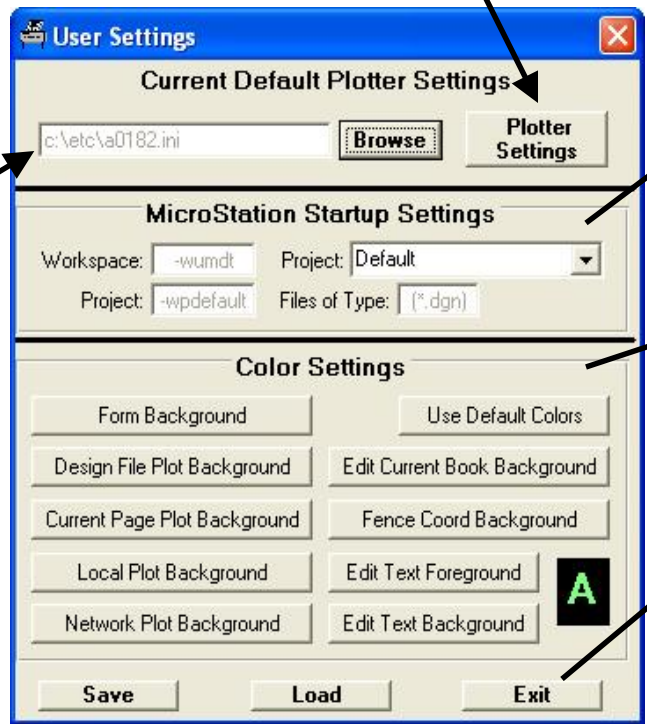
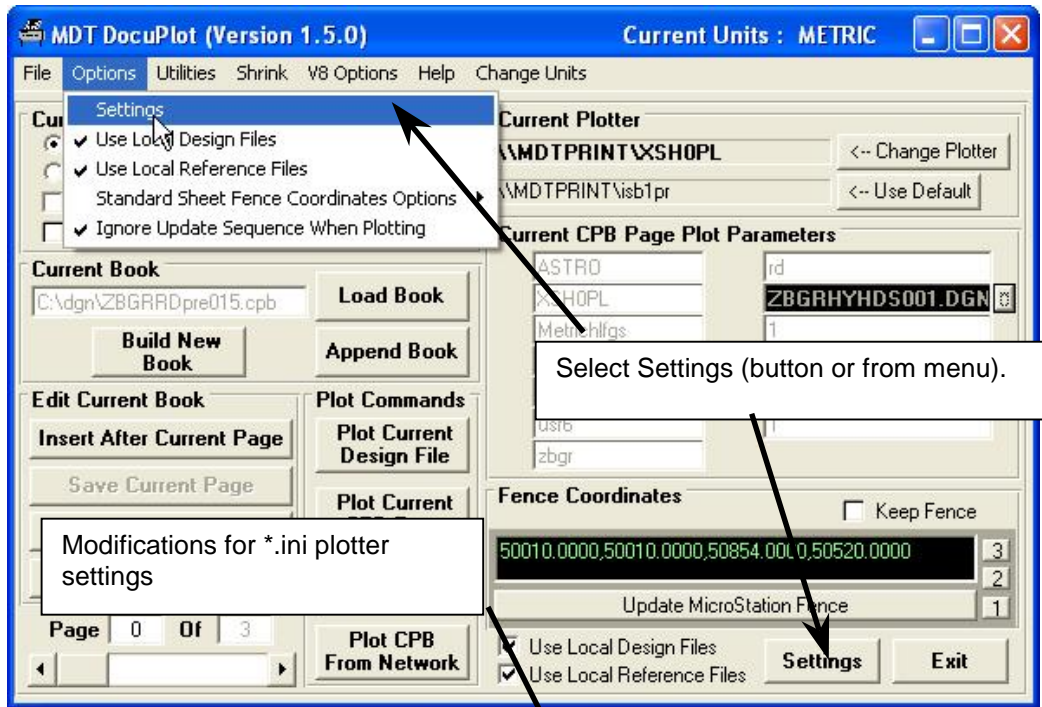
To delete your plot request from the Network queue



6. DOCUPLLOT USER SETTINGS

6.1. U####. ini and U####.std Settings Files

DocuPlot can be customized to each user through a *.ini file and a *.std file. These files are stored in the c:\etc directory. A *.ini file is a setting file that records specific plotter settings for the individual user. The *.std file is used to record specific dialog appearance settings for the individual user.

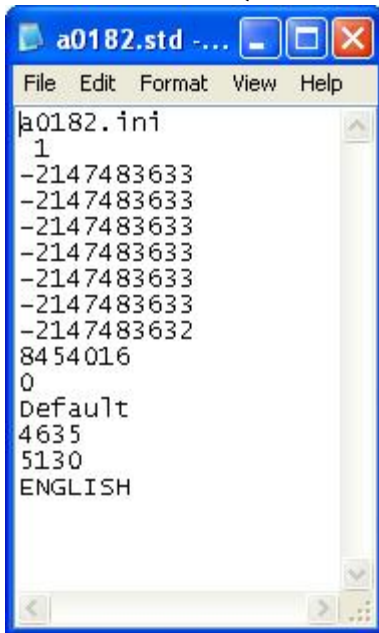

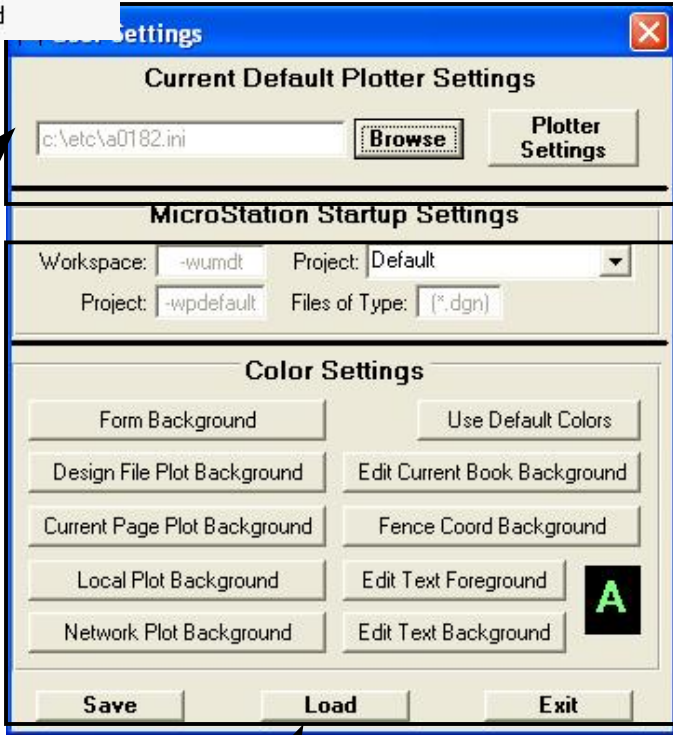
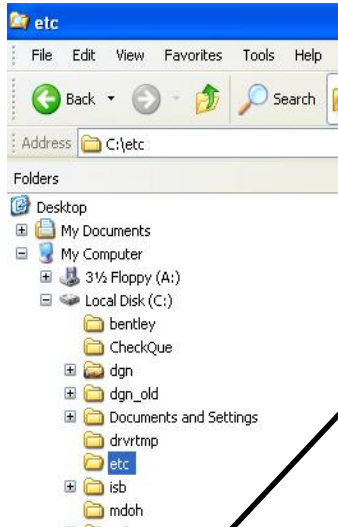


Modifications for *.std MicroStation startup settings

Modifications for *.std DocuPlot appearance settings

Exit returns to main DocuPlot screen

CONTINUED ON NEXT PAGE



U####.ini file controls DocuPlot plotter settings.

U####.std file controls DocuPlot appearance settings.

6.2. U####.ini Plotter Settings

DocuPlot has *four plotter settings* determined in an .INI file. The User Information, the Final Plot Parameters, the Check Plot Parameters, and the Cross Section Parameters are all modified within an .ini file.

The image shows two overlapping dialog boxes from the DocuPlot software. The 'User Settings' dialog is in the background, and the 'Plot Parameters' dialog is in the foreground. The 'Plot Parameters' dialog is divided into several sections: 'User Information (For Plot Requests)', 'Final Plot Parameters (For Creating CPB)', 'Check Plot Parameters (For Local Plots)', and 'Cross Section Plot Parameters'. Each section contains various options like plot size, printer path, and grey scale. Callout boxes with arrows point to specific fields in both dialog boxes, explaining their function in terms of .ini file settings.

User Settings Dialog:

- Current Default Plotter Settings:** Contains a text field with the path 'c:\etc\ao182.ini' and a 'Browse' button. A callout box says: 'Select Plotter Settings to view .INI settings'.
- MicroStation Startup Settings:** Contains a 'Project' field with 'Default' and a 'Files of Type' field with '*.dgn'. A callout box says: 'Current .INI file'.
- Color Settings:** Contains several buttons for background and text colors.

Plot Parameters Dialog:

- Current User:** 'ao182'. A callout box says: 'Current User logged onto DocuPlot'.
- User Information (For Plot Requests):** Contains fields for 'Name' (Wijay Sargari), 'Bureau/Unit/Section' (ADMINISTRATION DIV.), and 'Phone Number' (444-6311). A callout box points to the 'Bureau/Unit/Section' field.
- Final Plot Parameters (For Creating CPB):** Contains 'Final Plot Plotting Options' (Half Size Plans, Full Size Plans, No Grey Scale), 'Cadd Server' (ASTRO), 'View to Plot' (1), and 'Network Plot Batch Que' (\MDTHLNISBP130\PLOTREG). A callout box points to the 'Final Plot Plotting Options' section.
- Check Plot Parameters (For Local Plots):** Contains 'Check Plot Plotting Options' (Half Size Plans, Full Size Plans, 8.5 x 11 Plans, No Grey Scale). A callout box points to this section.
- Cross Section Plot Parameters:** Contains 'Cross Section Sheet Size And Plotter' (Half Size Cross Sections, Full Size Cross Sections, No Grey Scale). A callout box points to this section.
- Buttons:** 'Save', 'Load', and 'Exit'.

Callout Boxes:

- 'Current *.ini settings for submission to the Print Unit and for cross section submittals.' (points to 'Final Plot Parameters')
- 'Current *.ini settings for final plotting and creating CPB's.' (points to 'Final Plot Parameters')
- 'Current *.ini settings for local plotting.' (points to 'Check Plot Parameters')
- 'Current *.ini settings for cross section plotting' (points to 'Cross Section Plot Parameters')

6.3. Modify and Save User Information .INI Settings

User information settings are for submission of plot requests to the Print Unit and for cross section submittals. User information is set in the plot parameters portion of the .ini file.

User Settings

Current Default Plotter Settings
 c:\etc\A0182.ini [Browse] Plotter Settings

MicroStation Startup Settings
 Workspace: -wumdt Project: Default
 Project: -wpdefault Files of Type: (*.dgn)

Color Settings
 Use Default Colors
 Design File Plot Background Edit Current Book Background
 Current Page Plot Background Fence Coord Background
 Local Plot Background Edit Text Foreground [A]
 Network Plot Background Edit Text Background

Save Load Exit

Plot Parameters

Current User: a0182

User Information (For Plot Requests)
 Name: Vijay Sargari
 Bureau/Unit/Section: ADMINISTRATION DIV.
 Phone Number: 444-6311 Select Bureau/Unit/Section

Final Plot Parameters (For Creating CPB)
Final Plot Plotting Options
 Half Size Plans --> On Plotter: \\MMDTPRINT\X\SHOPL
 Full Size Plans --> On Plotter: \\MMDTPRINT\X\SF0PL
 No Grey Scale

Cadd Server: ASTRO
 Network Plot Batch Que: \\MMDTPRINT\X\SB1PR

Check Plot Parameter
Check Plot Plotting Options
 Half Size Plans --> On Plotter: \\MMDTPRINT\X\SHOPL
 Full Size Plans --> On Plotter: \\MMDTPRINT\X\SF0PL
 8.5 x 11 Plans --> On Plotter: \\MMDTPRINT\X\SB1PR
 No Grey Scale Select Plotter

Cross Section Plot Parameters
Cross Section Sheet Size And Plotter
 Half Size Cross Sections --> On Plotter: \\MMDTPRINT\X\SHOPL
 Full Size Cross Sections --> On Plotter: \\MMDTPRINT\X\SF0PL
 No Grey Scale Select Plotter

Save Load Exit

DocuPlot Configuration File

Save in: etc
 a0182.ini
 debbie.ini
 u0791.ini

File name: a0182.ini Save
 Save as type: (*.ini) Cancel

DocuPlot Configuration File

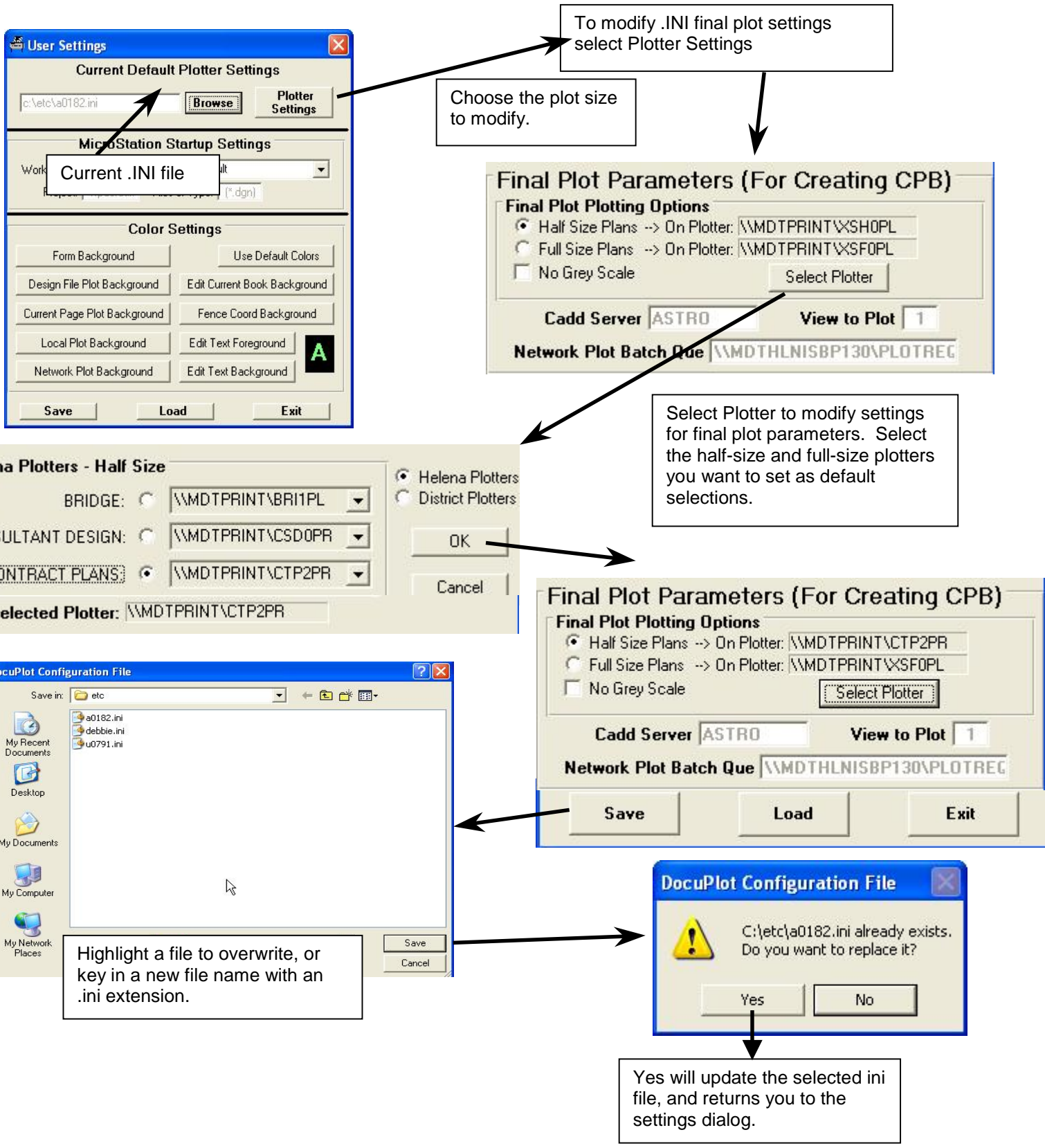
C:\etc\A0182.ini already exists. Do you want to replace it?
 Yes No

Annotations:

- To modify .INI User Information settings select Plotter Settings
- Current .INI file
- Fill in appropriate information. This data is used for print unit or cross section plot requests.
- Exit will stop updating the *.ini file and return you to the User Settings Dialog.
- Choose Save to save data to a *.INI file
- Highlight a file to overwrite, or key in a new file name with an .ini extension.
- Yes will update the selected *.ini file, and returns you to the settings dialog.

6.4. Modify and Save Final Plot Parameters .INI Settings

Default plotter settings for CPB page parameters and network plot requests are set in the final plot parameter settings portion of the .ini file.



6.5. Modify and Save Check Plot Parameters .INI Settings

Default plotter settings for plotting current design file and check plot parameters are set in the check plot parameter settings portion of the .ini file.

User Settings

Current Default Plotter Settings
c:\etc\ao182.ini [Browse] [Plotter Settings]

MicroStation Startup Settings
Workspace: -wumdt Project: Default
Files of Type: (*.dgn)

Color Settings
Form Background Use Default Colors
Design File Plot Background Edit Current Book Background
Current Page Plot Background Fence Coord Background
Local Plot Background Edit Text Foreground
Network Plot Background Edit Text Background

Save Load Exit

To modify .INI final plot settings select Plotter Settings

Choose the plot size to modify.

Check Plot Parameters (For Local Plots)

Check Plot Plotting Options
 Half Size Plans --> On Plotter: \\MMDTPRINT\XSHOPL
 Full Size Plans --> On Plotter: \\MMDTPRINT\XSF0PL
 8.5 x 11 Plans --> On Plotter: \\MMDTPRINT\XSB1PR
 No Grey Scale [Select Plotter]

Select Plotter to modify settings for final plot parameters. Select the half-size, full-size, and 8.5 x 11 plotters you want to set as default selections.

Choose From Available Network Plotters Listed Below

Helena Plotters - Half Size
BRIDGE: \\MMDTPRINT\BRI1PL
CONSULTANT DESIGN: \\MMDTPRINT\CSD0PR
CONTRACT PLANS: \\MMDTPRINT\CTP2PR
GEOTECHNICAL: \\MMDTPRINT\GEO1PR
HYDRAULICS: \\MMDTPRINT\HYD1PR
RIGHT OF WAY: \\MMDTPRINT\ROW1PL
ROAD DESIGN: \\MMDTPRINT\ROD2PL
TRAFFIC: \\MMDTPRINT\TRF1PL
BASEMENT PLOTTERS: \\MMDTPRINT\XSHOPL

Selected Plotter: \\MMDTPRINT\CTP2PR

Helena Plotters
District Plotters

OK Cancel

Check Plot Parameters (For Local Plots)

Check Plot Plotting Options
 Half Size Plans --> On Plotter: \\MMDTPRINT\CTP2PR
 Full Size Plans --> On Plotter: \\MMDTPRINT\XSF0PL
 8.5 x 11 Plans --> On Plotter: \\MMDTPRINT\XSB1PR
 No Grey Scale [Select Plotter]

Save Load Exit

DocuPlot Configuration File

Save in: etc
a0182.ini
debbie.ini
u0791.ini

File name: a0182.ini Save as type: (*.ini) [Save] [Cancel]

DocuPlot Configuration File

C:\etc\ao182.ini already exists. Do you want to replace it?
[Yes] [No]

Highlight a file to overwrite, or key in a new file name with an *.ini extension.

Yes will update the selected *.ini file, and returns you to the settings dialog.

6.6. Modify and Save Cross Section Plot Parameters .INI Settings

Default plotter settings for plotting cross sections are set in the cross section parameter settings portion of the .ini file.

User Settings

Current Default Plotter Settings
c:\etc\A0182.ini [Browse] [Plotter Settings]

MicroStation Startup Settings
Workspace: -wumdt Project: Default
Files of Type: (*.dgn)

Color Settings
Form Background Use Default Colors
Design File Plot Background Edit Current Book Background
Current Page Plot Background Fence Coord Background
Local Plot Background Edit Text Foreground
Network Plot Background Edit Text Background

Save Load Exit

To modify .INI final plot settings select Plotter Settings

Choose the plot size to modify.

Cross Section Plot Parameters

Cross Section Sheet Size And Plotter
 Half Size Cross Sections --> On Plotter: \\VMDTPRINT\XSHOPL
 Full Size Cross Sections --> On Plotter: \\VMDTPRINT\XSFOPL
 No Grey Scale [Select Plotter]

Select Plotter to modify settings for final plot parameters. Select the half-size and full-size plotters you want to set as default selections.

Choose From Available Network Plotters Listed Below

Helena Plotters - Half Size
BRIDGE: \\VMDTPRINT\BRI1PL
CONSULTANT DESIGN: \\VMDTPRINT\CSDOPR
CONTRACT PLANS: \\VMDTPRINT\CTP2PR
GEOTECHNICAL: \\VMDTPRINT\GED1PR
HYDRAULICS: \\VMDTPRINT\HYD1PR
RIGHT OF WAY: \\VMDTPRINT\ROW1PL
ROAD DESIGN: \\VMDTPRINT\ROD2PL
TRAFFIC: \\VMDTPRINT\TRF1PL
BASEMENT PLOTTERS: \\VMDTPRINT\XSHOPL

Selected Plotter: \\VMDTPRINT\CTP2PR

OK Cancel

Cross Section Plot Parameters

Cross Section Sheet Size And Plotter
 Half Size Cross Sections --> On Plotter: \\VMDTPRINT\CTP2PR
 Full Size Cross Sections --> On Plotter: \\VMDTPRINT\XSFOPL
 No Grey Scale [Select Plotter]

Save Load Exit

DocuPlot Configuration File

Save in: etc
a0182.ini
debbie.ini
u0791.ini

File name: a0182.ini
Save as type: (*.ini)

Highlight a file to overwrite, or key in a new file name with an *.ini extension.

DocuPlot Configuration File

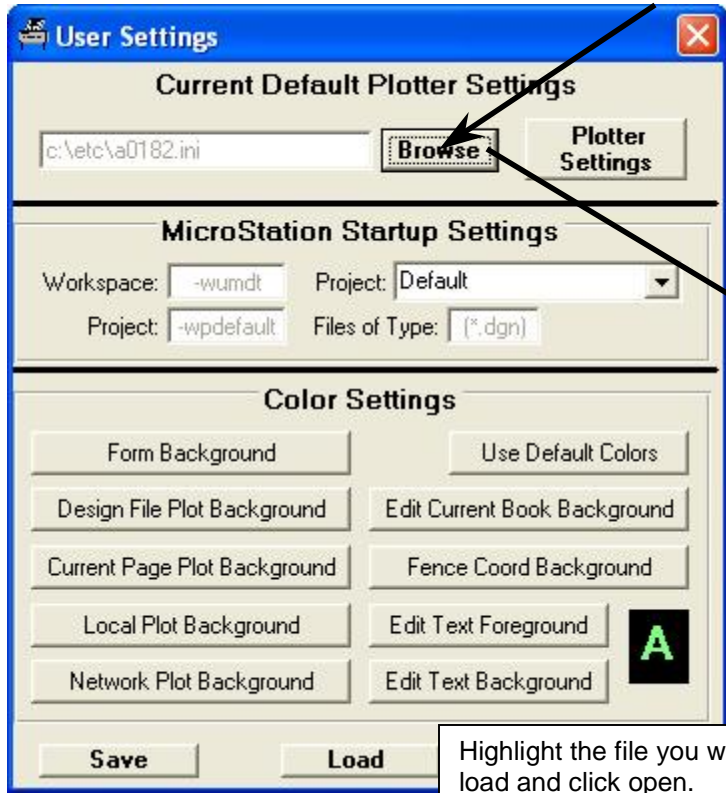
C:\etc\A0182.ini already exists. Do you want to replace it?
Yes No

Yes will update the selected *.ini file, and returns you to the settings dialog.

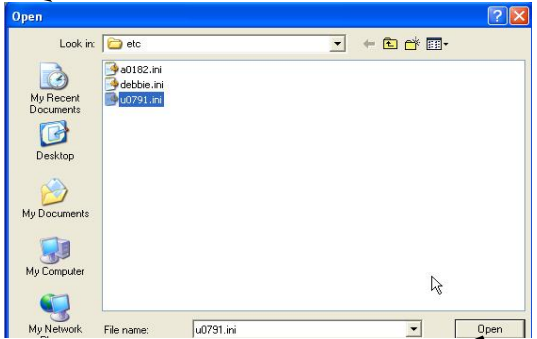
6.7. Selecting and saving an .INI File

A *.INI file may be brought in to DocuPlot and saved as the default settings for the plotter selections. Multiple users can share a PC and have their own DocuPlot settings.

Select Browse

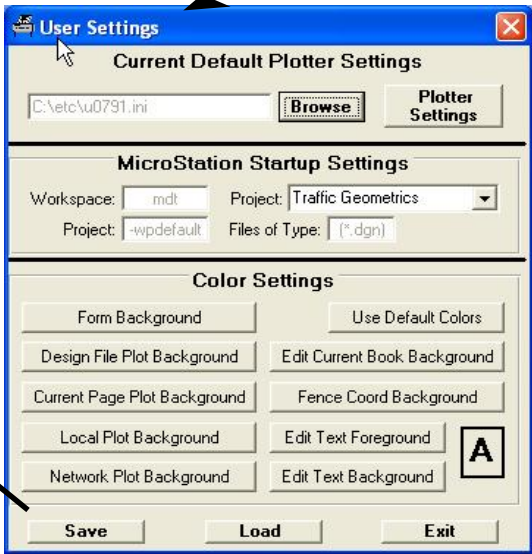


The c:\etc\ directory is opened using XP Explorer with a filter set to screen for *.ini files.




Highlight the file you wish to load and click open.

Note:
This option works well when multiple users use one PC.

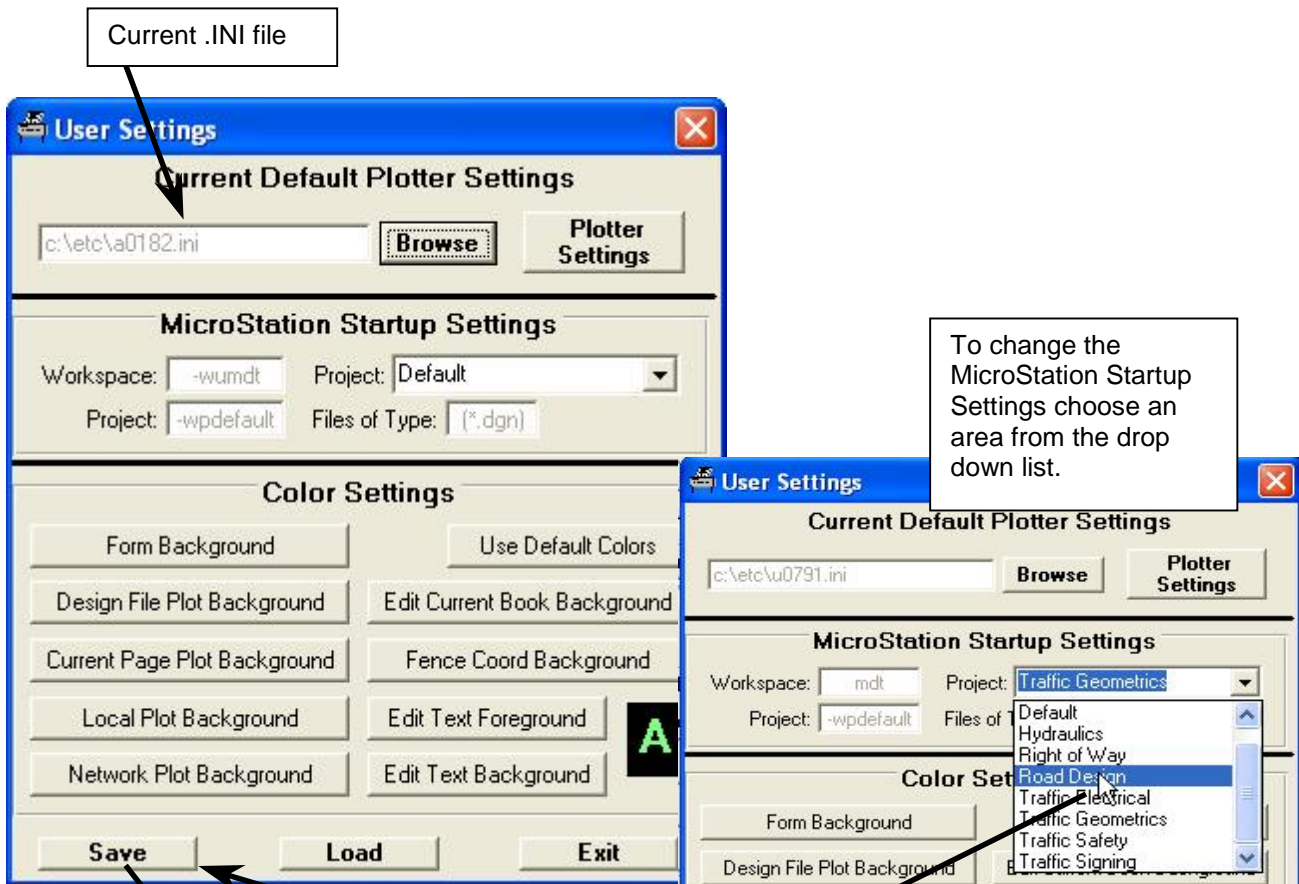


Click OK to acknowledge saved settings.

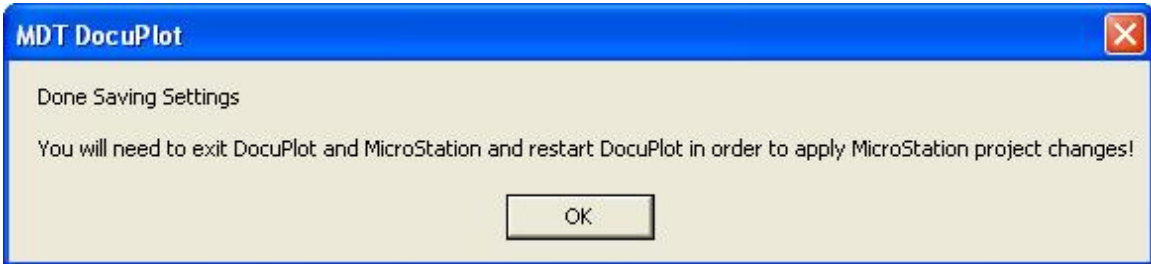


6.8. Modify and Save MicroStation Startup STD Settings

DocuPlot will open MicroStation using the startup settings set in the DocuPlot User settings.



Click Save to save MicroStation startup settings to the U####.STD file.

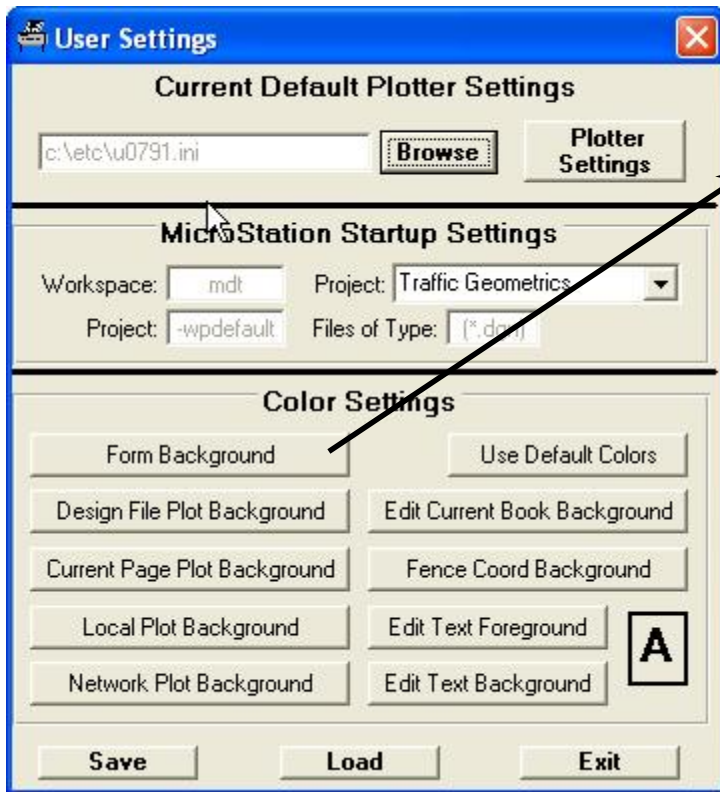


The Settings for MicroStation Startup will not be used until the next time DocuPlot opens MicroStation.

6.9. Modify and Saving Color .STD Settings

DocuPlot can be customized for cosmetic appearance. The default appearance is gray and black. These colors are modified using the User Settings dialog.

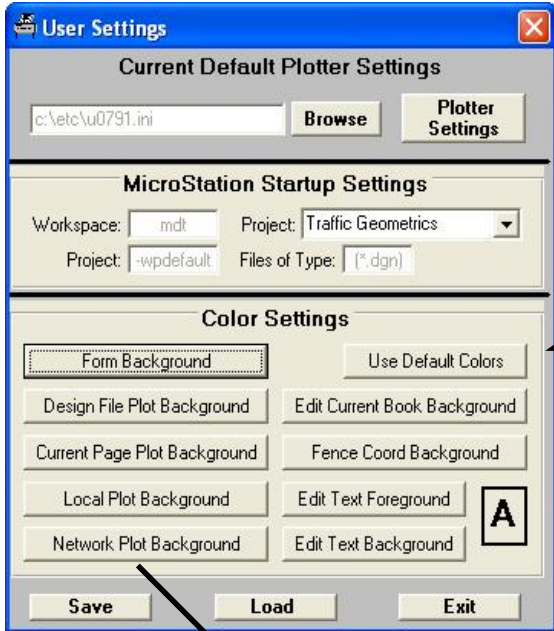
Parameter	Value
ASTRO	rd
XSHOPL	ZBGRHYHDS001.DGN *
Metrichlfgs	1
a0182	1
MDTPRINT	b
usr6	1
zbgr	



Select portion of DocuPlot dialog to apply a new Color Setting to.

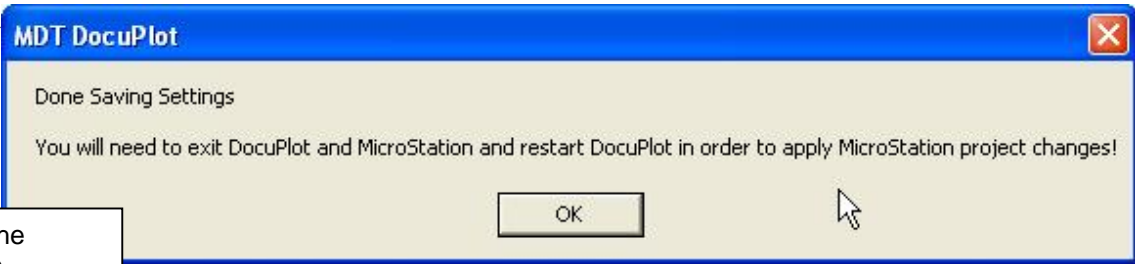


Select Color and select OK



Note:
All color settings for portions of the DocuPlot screen follow the same format shown on this page.

Select Save to update the attached u#####.std file.



OK to acknowledge saved settings.

6.10. Load .STD Settings File into DocuPlot

The *.INI settings and *.STD files are separate entities. They are linked together in the *.STD file using the SAVE command. The User Settings LOAD command activates the settings within the current *.std file.

Current .INI file loaded in to Docuplot. The *.ini file controls all the plotter settings.

Load brings the current settings in the *.STD file into Docuplot.

```
a0182.ini
1
-2147483633
-2147483633
-2147483633
-2147483633
-2147483633
-2147483633
-2147483632
65280
0
Traffic Geometrics
4485
5775
```

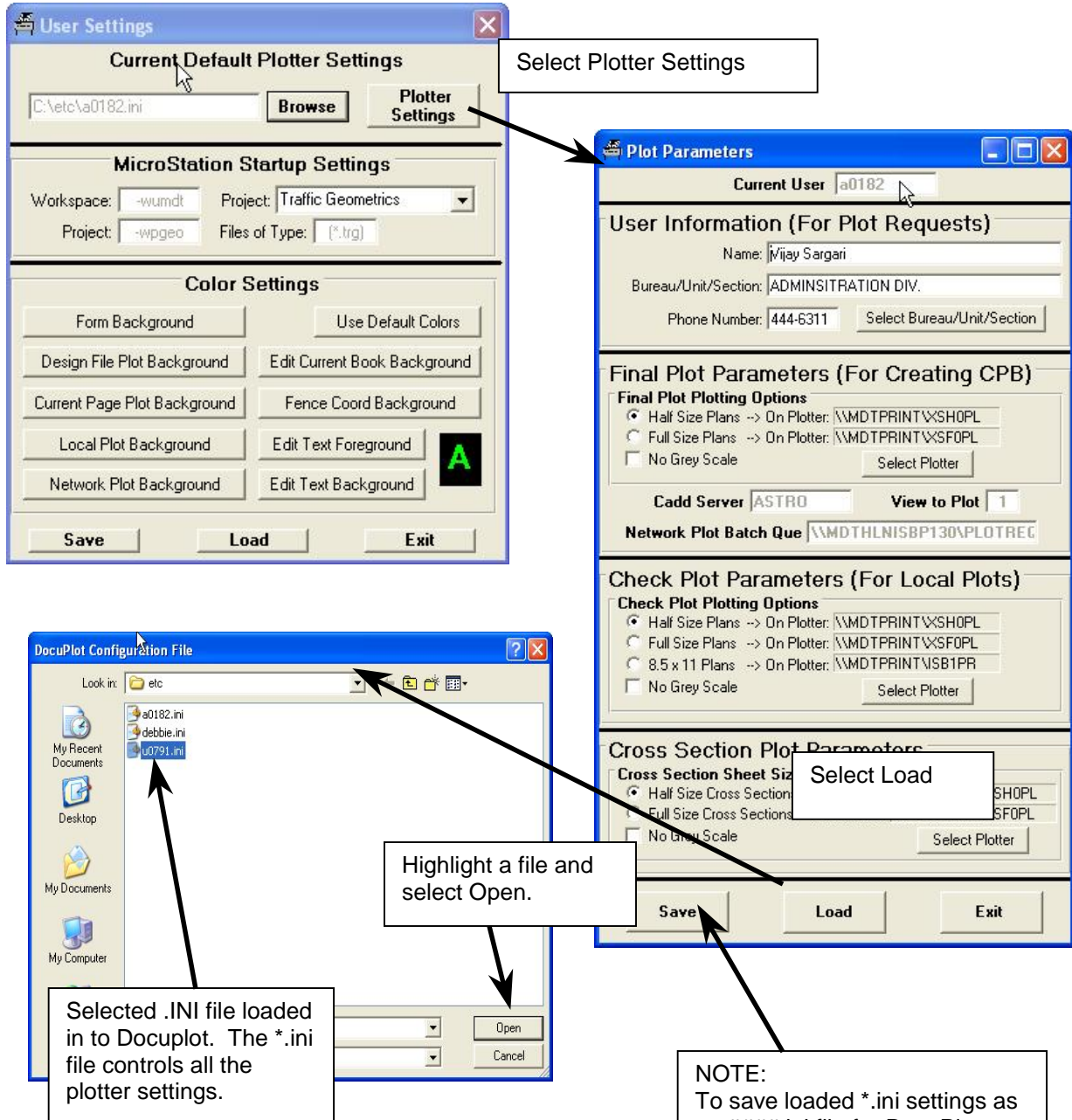
Current *.STD file points to a specific *.INI file. When Load is invoked, *.INI file will be loaded into Docuplot.

NOTE:
Load works as a default setting command. It loads the last settings saved. Any changes made to docuplot settings are not the default until Save is selected.

Save over writes the *.std file with current settings.

6.11. Load .INI Settings File into DocuPlot

The Plot Parameters LOAD command activates the settings within a selected *.ini file. The Plot Parameters SAVE command writes to the *.ini file.



Select Plotter Settings

Highlight a file and select Open.

Selected .INI file loaded in to Docuplot. The *.ini file controls all the plotter settings.

Select Load

NOTE:
 To save loaded *.ini settings as a u####.ini file for DocuPlot plotter settings, return to the User Settings Dialog and select Save.

By not selecting save, the loaded .ini file is used for temporary plotter settings.

7. BUILD NEW CPB BOOK

DocuPlot builds electronic CPB's, (Contract Plans Books). A CPB is an electronic script file that contains a page for, CADD Server data, design file name, and sheet coordinates. A CPB is a sequential order of MicroStation design files for the contract plan package.

7.1. Determine Project #### and Area for CPB

A CPB can only be built using projects and areas that a user has *write* access to.

Select Build New Book

Select Units For New CPB

Build Sheets (New)

NOTE:
Selection dialog will only display projects you have write access to.

Highlight the project

Choose Select Project"

Select Accept, and the DocuPlot Build Sheets (New) dialog will return. The current project information is entered.

Select Project For DocuPlot CPB

Selected Project Number: zbgr
Selected Design Area: rd

Exit returns you to the Build Sheets (New) Dialog.

7.2. Build Plan Sheet CPB - Insert Local File After Current Page

A design file, (CPB page), can be added after the current page. Every book starts with page 0 and is labeled MDT.MAS. To add a page select a local design file and sheet number to add into the CPB.

Current project data

NOTE:
Local files not backed up on a CADD server may be added to a CPB. Local files brought down from the CADD server through CADD Access may be added to a CPB.
A local file not backed up on the CADD server will not be accepted by Contract Plans.

Choose Select Local File

Highlight a file in the c:\dgn directory, and select open, (or double click).

Filters for file extension set in U####.INI file, (see Section 6.8, **Modify and Save MicroStation Startup STD Settings, pp.55**).

Selected MicroStation design file into DocuPlot Build Sheets dialog box

7.3. Build Plan Sheet CPB - Insert Sheet from Local File

To add a specific sheet in a design file into the CPB, click the select sheet option. Every book starts with page 0 and is labeled MDT.MAS. When creating the contract plans add the required sheets in sequential order.

Current project data and design file

See Section 12, APPENDIX B - SHEET TYPES FOR INSERTING INTO CPB, pp. 89, for a description of the sheet types, and the dialogs associated with the selection

Select sheet type, and Current Selection displayed

Select Accept, return to the DocuPlot Build Sheets dialog.

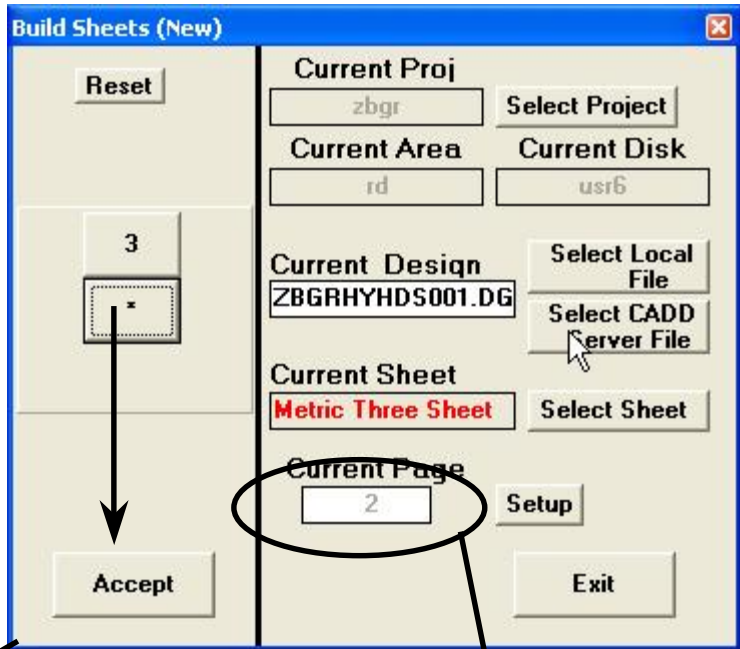
Select specific sheet number to add to the CPB.
Select Accept and the page is added.

Current page in the CPB being added

7.4. Build Plan Sheet CPB - Insert Additional Sheets from Local File

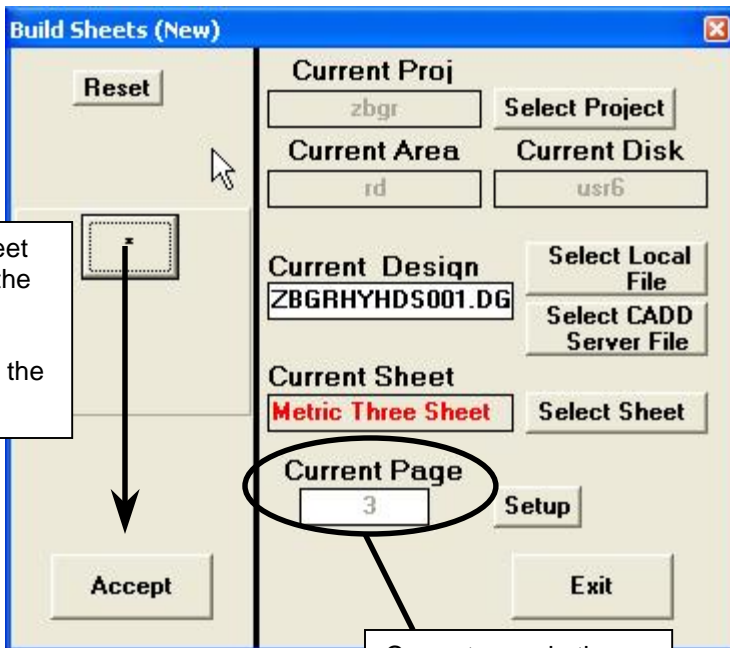
To add additional sheets from the current design file into the CPB, click an unchecked sheet. Continue to add sheets in sequential order required in the contract plan submittal.

Select specific sheet number to add to the CPB.
Select Accept and the page is added.



Current page in the CPB being added

Select specific sheet number to add to the CPB.
Select Accept and the page is added.



Current page in the CPB being added

7.5. Build Plan Sheet CPB - Insert Additional Sheets New Local File

To add additional sheets from a new local design file into the CPB, click on Select Local File. The reset button will refresh the last sheet style selected. Continue adding sheets to the contract plans in sequential order.

Build Sheets (New)

Reset

Current Proj: zbgr Select Project

Current Area: rd Current Disk: usr6

Current Design: ZBGRHYHDS001.DG Select Local File

Select CADD Server File

Current Sheet: Metric Three Sheet Select Sheet

Current Page: 3 Setup

Accept Exit

Open

Look in: c:\dgn

Files of type: Default Files (*.dgn)

File name: 4639RDPVP001.DGN

Open Cancel

Build Sheets (Append)

Reset

Current Proj: zbgr Select Project

Current Area: rd Current Disk: usr6

Current Design: 4639RDPVP001.DGN Select Local File

Select CADD Server File

Current Sheet: Metric Three Sheet Select Sheet

Current Page: 4

Accept

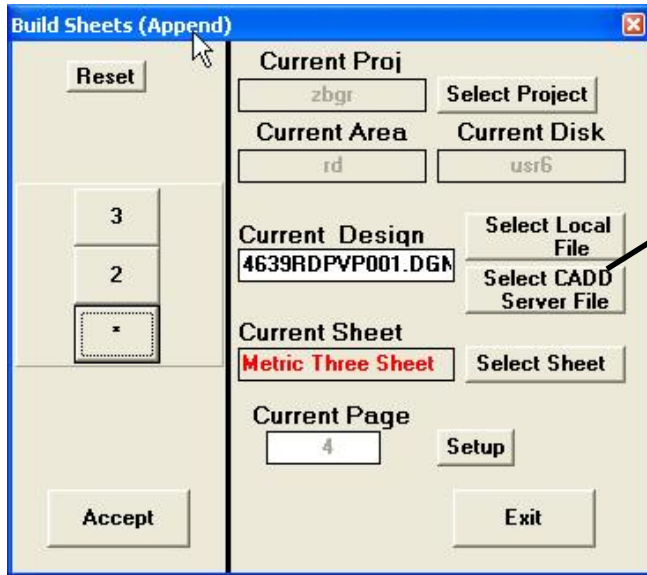
Reset button refreshes sheet layout of previous selected sheet style.

Select specific sheet number to add to the CPB. Select Accept and the page is added.

Select a MicroStation design file in the DocuPlot Build Sheets dialog box

7.6. Build Plan Sheet CPB – Insert sheets from CADD Server Files

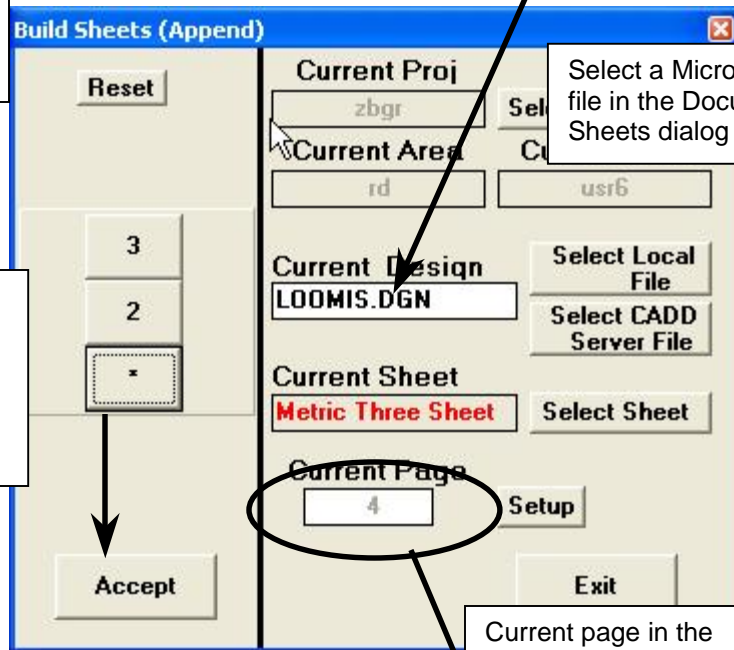
A CADD server design file, (CPB page), can be added after the current page. To add a network file, Select CADD Server file and sheet number to add into the CPB.



Highlight a file in the pop up menu, and select Accept (or double click).



Reset button refreshes sheet layout of previous selected sheet style.



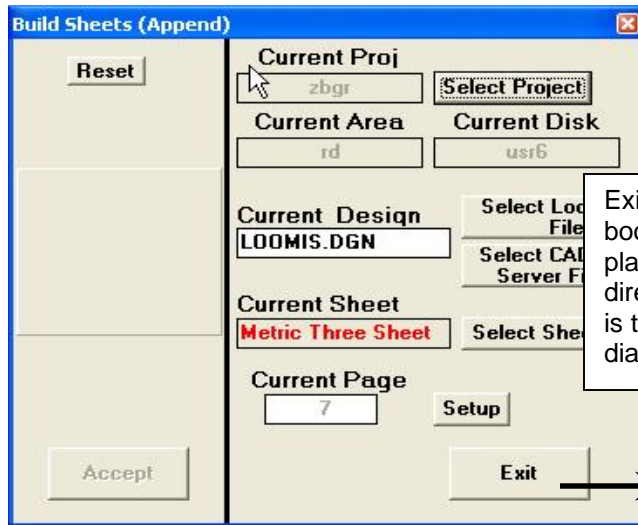
Select a MicroStation design file in the DocuPlot Build Sheets dialog box

Select specific sheet number to add to the CPB.
Select Accept and the page is added.

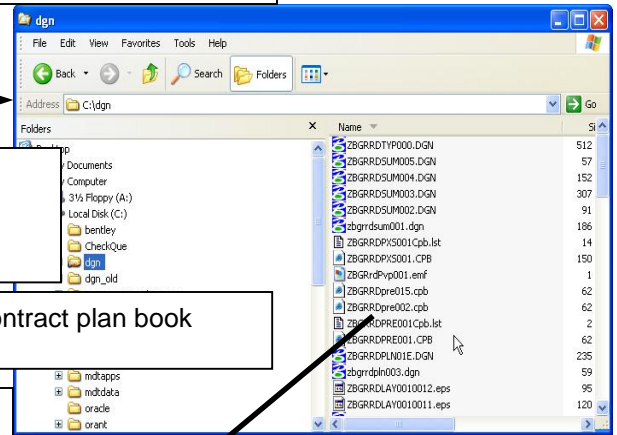
Current page in the CPB being added

7.7. Build Plan Sheet CPB – Finish CPB and Load into DocuPlot

After building the contract plans book in the sequential order required, choose exit to return to the main DocuPlot dialog. Load the new book into DocuPlot using Load Book.



Exit stops building the book, names the CPB and places it in the c:\dgn directory. The next screen is the main DocuPlot dialog.



Default CPB Naming convention

ZBGR RD PRE 002 . CPB

Project control number

Design area abbreviation

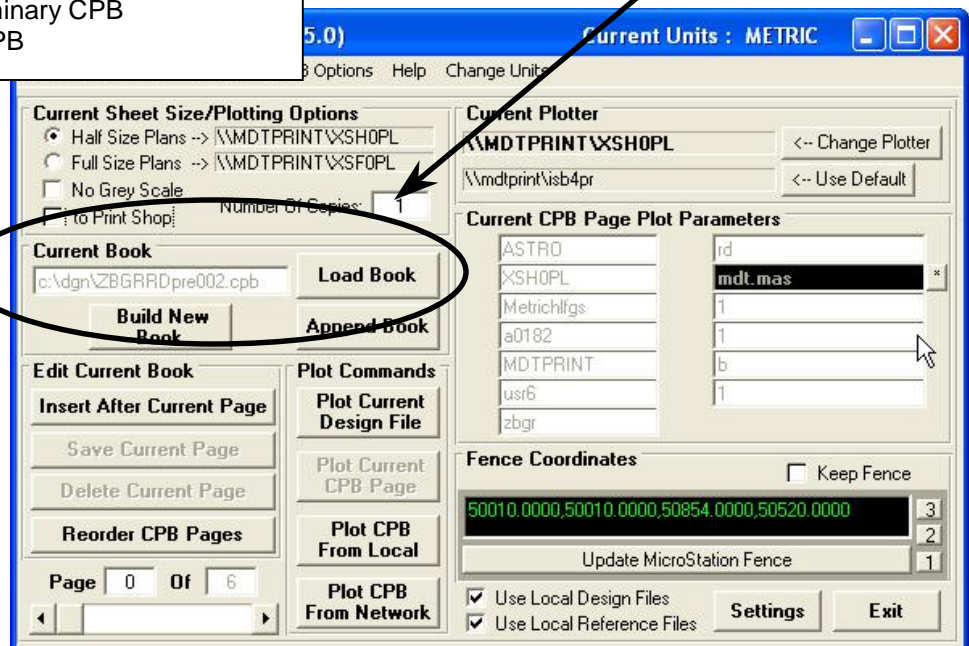
002 = series number

CPB = contract plan book

pre = preliminary CPB
fnl= final CPB

The CPB will automatically load into DocuPlot when there was no current book loaded prior to building the CPB.

However, if there was a current book loaded while the new CPB was being built, you will need to load the newly created book.



7.8. Build Cross Section CPB

Cross Section sheets are placed in a CPB separate from other plan sheets. Cross sections cannot be inserted into an existing CPB. If a cross section CPB needs to be revised it is easier to rebuild the file. A cross section CPB and plan sheet CPB can be merged after the two files are built separately.

Select Build New Book

Select Units For New CPB

Build Sheets (New)

Choose Select Project

Select Project For DocuPlot CPB

Build Sheets (New)

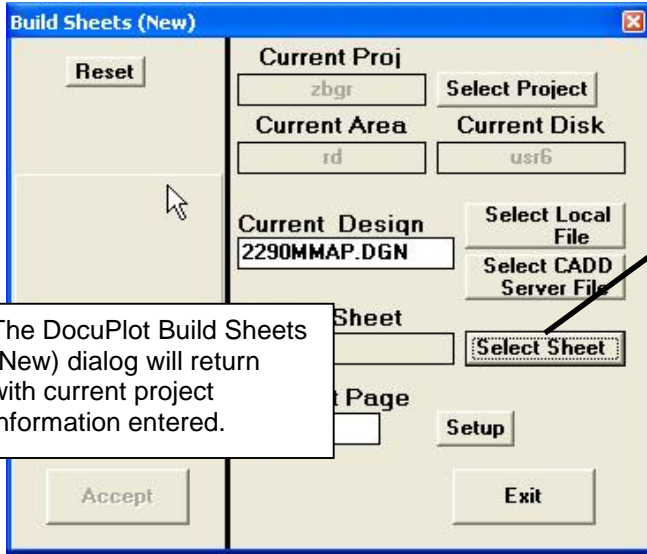
Select Local or CADD Server File

Select CADD Serv...

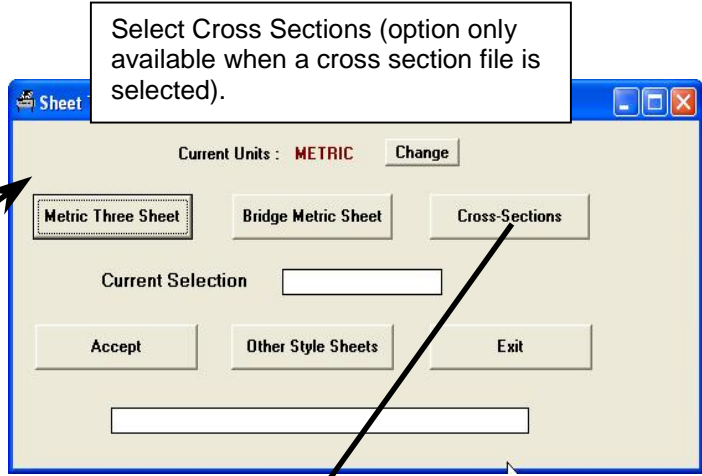
Highlight the project and select Accept

Highlight the project and select Accept

CONTINUED ON NEXT PAGE



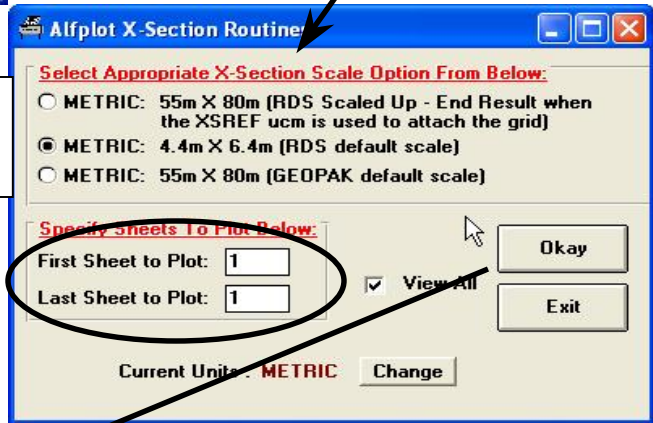
The DocuPlot Build Sheets (New) dialog will return with current project information entered.



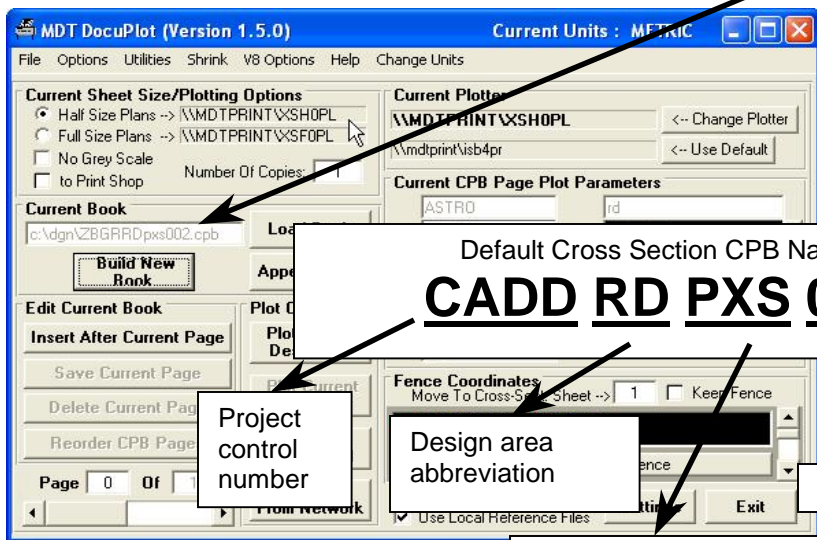
Select Cross Sections (option only available when a cross section file is selected).

Select the type of cross sections, and the method the cross sections were created.

Specify the cross section sheets required (1 – 500).



Okay creates the CPB book, returns main DocuPlot dialog with cross section CPB loaded.



Default Cross Section CPB Naming convention
CADD RD PXS 002 . CPB

Project control number

Design area abbreviation

002 = series number

CPB = contract plan book

pxs = preliminary cross sections
 fxs = final cross sections

8. EDITING AN EXISTING CPB

An existing CPB, (Contract Plans Book) can be edited. Pages can be added, pages can be replaced, pages can be deleted, and the pages can be reordered.

8.1. Edit CPB - Insert Page(s) after Current Page

You can insert design file sheets into an existing CPB. Pages can be inserted after another page using, Insert After Current Page. However, new pages that need to be added to the front of the CPB must be inserted at the back of the CPB. The CPB must then be reordered, placing the last sheet at the front.

The image illustrates the steps to insert a new page into an existing CPB:

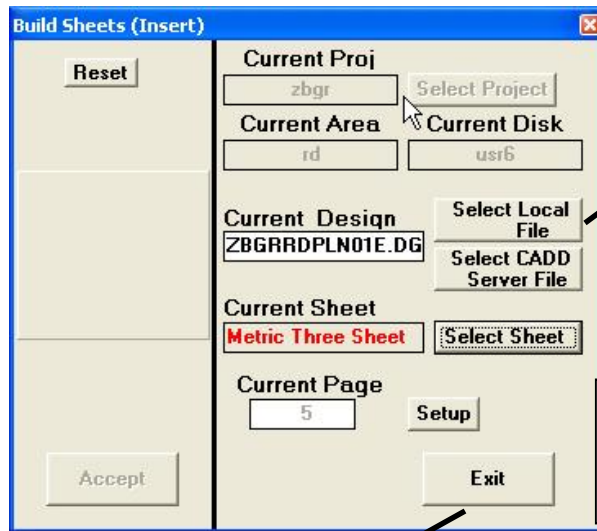
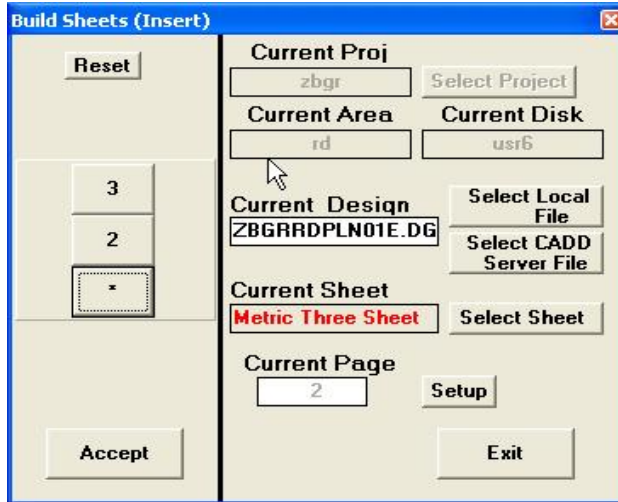
- MDT DocuPlot (Version 1.5.0) Main Window:** Shows the 'Edit Current Book' menu with 'Insert After Current Page' selected. A callout points to this option: "Select Insert After Current Page".
- Build Sheets (New) Dialog:** Shows the 'Current Proj' field with 'zbgr' and 'Current Area' with 'rd'. A callout states: "Project Data already defined by current book".
- Open Dialog:** Shows a file list with 'ZBGRDPLN01E.DGN' highlighted. A callout says: "Highlight a file to insert".
- Build Sheets (Insert) Dialog:** Shows the 'Current Design' field with 'ZBGRDPLN01E.DG'. A callout says: "Select sheet".
- Sheet Type and Scales Dialog:** Shows 'Metric Three Sheet' selected under 'Current Selection'. A callout says: "Select sheet".

Other callouts in the main window include: "Current CPB and page of the book" pointing to the 'Current Book' and 'Page 1 Of 6' fields, and "Current CPB Page Plot Parameters" pointing to the 'Current Plotter' and 'Current CPB Page Plot Parameters' sections.

CONTINUED ON NEXT PAGE

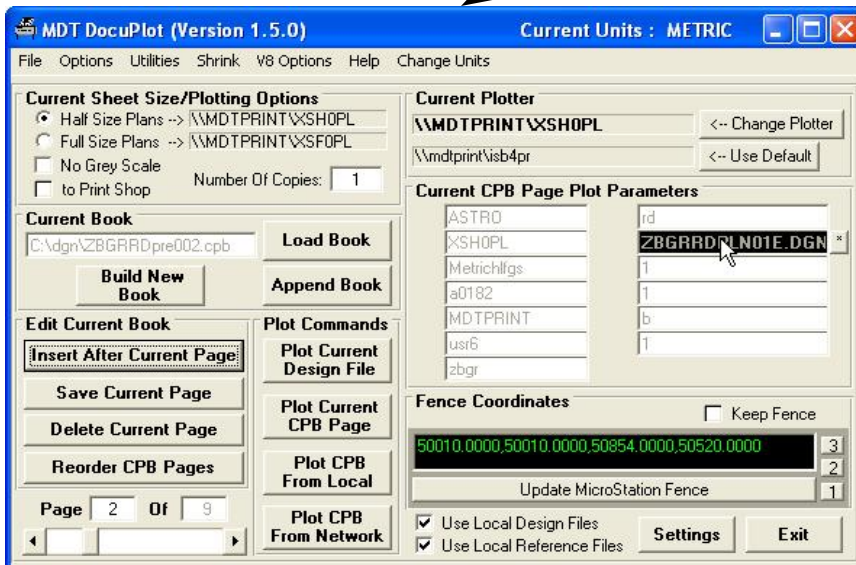
Select specific sheet number to add to the CPB.

Select Accept and the page is inserted into the book.



Continue adding new files and sheets to the CPB as necessary.

Select Exit to return to Main DocuPlot dialog with revised CPB loaded.



8.2. Edit CPB - Save Current Page

Saving a current page replaces the current CPB page with the active design file displayed in MicroStation.

Current design file and coordinates for CPB page

Scroll to the CPB page to be replaced.

Use DocuPlot's * button to open a new file

Design file opens to use as replacement

Use DocuPlot Fence coordinate buttons to display sheet required

Save Current Page Verification!

You have selected the command to save the current page information! This will modify the current page in the CPB to reflect the current page information. Do you want to continue?

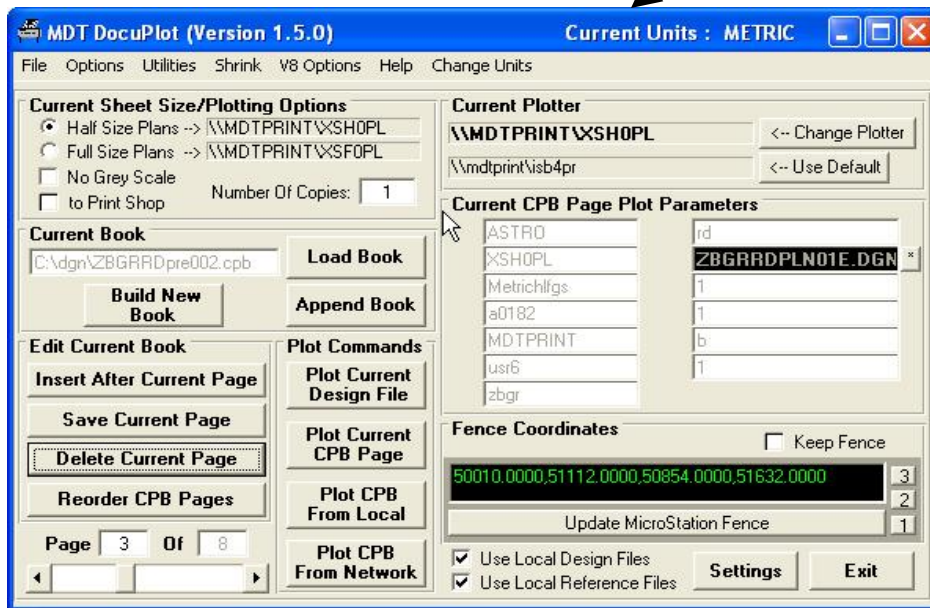
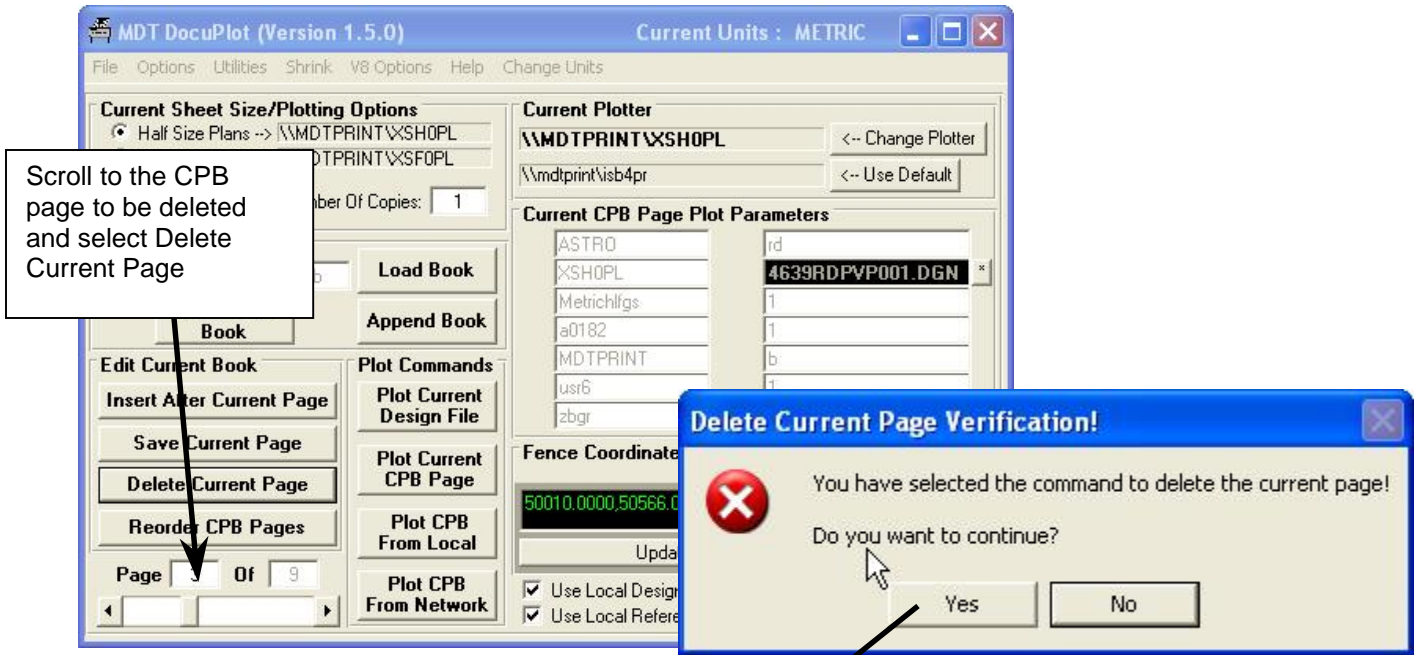
Yes No

After displaying proper page in MicroStation select Save Current Page

Yes to replace page
No to not replace page

8.3. Edit CPB – Delete Current Page

DocuPlot will delete a sheet, within a loaded CPB, one page at a time.



8.4 Edit CPB – Reorder CPB Pages

DocuPlot will allow the user to reorder the sequence of pages within a CPB.

Current CPB

Choose before or after placement. Drag and drop from left column to new location in right column.

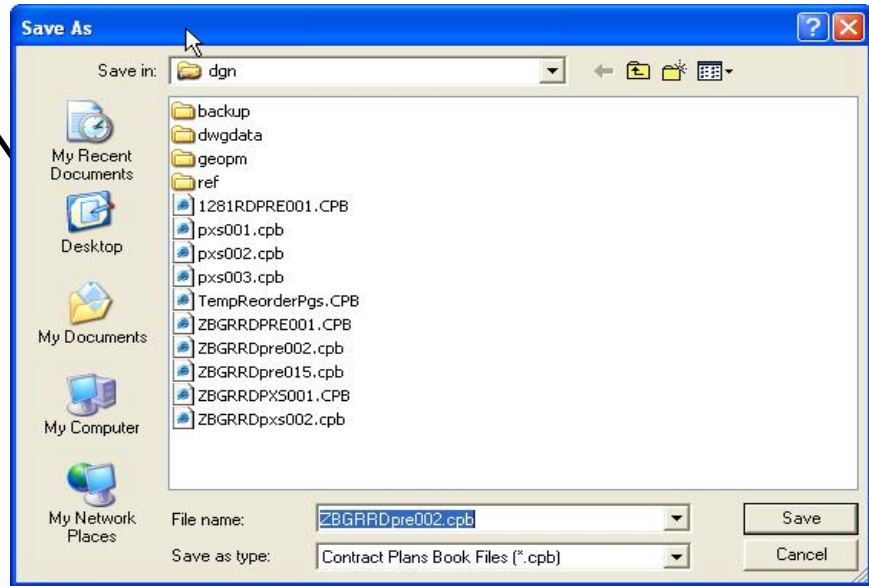
Current CPB Page Information			Modified CPB Page Information		
Page	File Name	Sheet #	Page	File Name	Sheet #
1	zbgrrdpln01e.dgn	1	1 <-	zbgrrdpln01e.dgn	1
2	zbgrrdpln01e.dgn	1	2 <-	zbgrrdpln01e.dgn	1
3	zbgrrdpln01e.dgn	3	3 <-	zbgrrdpln01e.dgn	3
4	zbgrhyhds001.dgn	2	4 <-	zbgrhyhds001.dgn	2
5	zbgrhyhds001.dgn	3	5 <-	zbgrhyhds001.dgn	3
6	loomis.dgn	1	6 <-	loomis.dgn	1
7	loomis.dgn	2	7 <-	loomis.dgn	2
8	loomis.dgn	3	8 <-	loomis.dgn	3

Placement Options:
 Place Before
 Place After

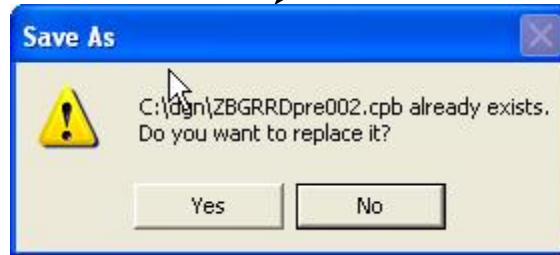
Drag/Drop To Reorder
=====>
<=====
Drag/Drop To Undo

Okay reorders the pages and asks to save the modified CPB.

Save as screen asks for a name to save the book. By default the original name is highlighted.



Saving the book with the original name brings up a prompt to replace existing file. Click yes.

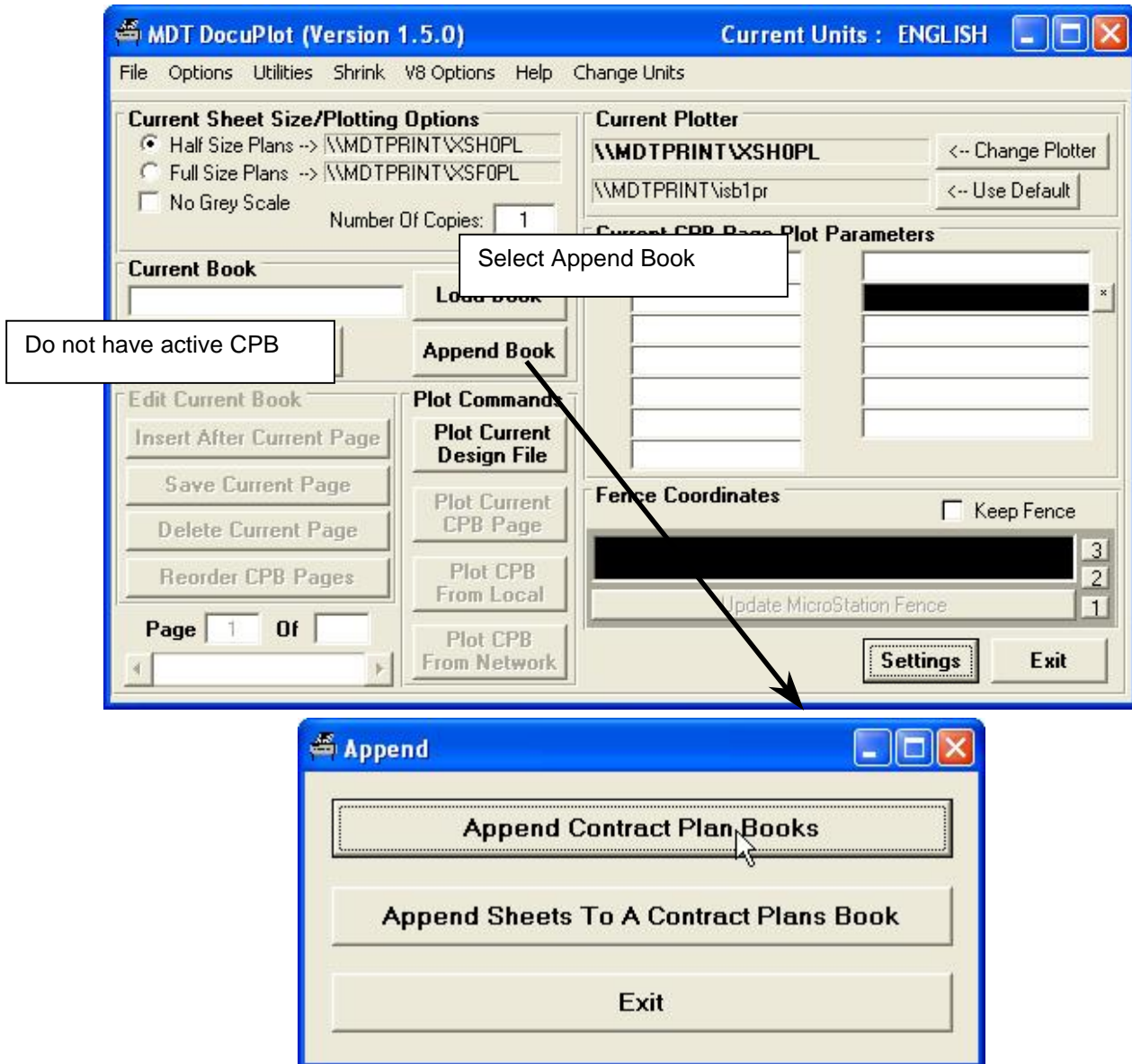


9. APPEND CPB BOOKS

Once separate Contract Plan Books are created, the individual books may need sheets appended or the individual books may be appended together. The concept is to have one book, made up of little books, for a design project. Appending books for final bid package will be done by contract plans.

9.1. Append Contract Plan Books

DocuPlot will append individual CPB's into one large book. The books should be appended in the order that final plotting needs to occur.



CONTINUED ON
NEXT PAGE

Join Contract Plans Books

Default search path is c:\dgn

The order of files is top to bottom

Highlight the files in the sequence the files need appending.

Select to move the files to the right

Clear removes any files selected from the right side of the dialog

Save as creates a new CPB file,

Save As

Enter name of new appended CPB, default path is c:\dgn, select Save, and return to Join Contract Plan Books dialog.

Join Contract Plans Books

Page #, is the series of CPB's, in this case there are three pages.

The Done prompt indicates all selected books are appended.

MDT DocuPlot (Version 1.5.0) Current Units : ENGLISH

File Options Utilities Shrink V8 Options Help Change Units

Current Sheet Size/Plotting Options

- Half Size Plans -> \\MMDTPRINT\XSHOPL
- Full Size Plans -> \\MMDTPRINT\XSFOPL
- No Grey Scale
- Number Of Copies: 1

Current Plotter

\\MMDTPRINT\XSHOPL <- Change Plotter

\\MMDTPRINT\isb1pr <- Use Default

Current CPB Page Plot Parameters

Build New Book

Edit Current Book

- Insert After Current Page
- Save Current Page
- Delete Current Page
- Reorder CPB Pages

Page 1 Of

Exit returns to main DocuPlot screen.

To view new appended CPB, load the book into DocuPlot

9.2. Append Sheets to a Contract Plans Book

DocuPlot will allow the user to append sheets to an existing CPB. These sheets are added to the end of the CPB. This option meets the Contract Plans addendum process.

MDT DocuPlot (Version 1.5.0) Current Units : ENGLISH

File Options Utilities Shrink V8 Options Help Change Units

Current Sheet Size/Plotting Options
 Half Size Plans --> \\MDTPRINT\XSHOPL
 Full Size Plans --> \\MDTPRINT\XSFOPPL
 No Grey Scale Number Of Copies: 1

Current Plotter
\\MDTPRINT\XSHOPL <-- Change Plotter
\\MDTPRINT\isb1pr <-- Use Default

Current CPB Page Plot Parameters

Current Book
Load Book
Build New Book
Append Book

Edit Current Book
Insert After Current Page
Save Current Page
Delete Current Page
Reorder CPB Pages

Plot Commands
Plot Current Design File
Plot Current CPB Page
Plot CPB From Local

Page 1 Of

Append
Append Contract Plan Books
Append Sheets To A Contract Plans Book
Exit

Default directory is c:\dgn

Select CPB To Append To
Look in: dgn
backup
dwgdata
geopm
ref
1.cpb
1281RDPRE001.CPB
pxs001.cpb
pxs002.cpb
pxs003.cpb
TempReorderPgs.CPB
ZBGRRDPRE001.CPB
ZBGRRDpre002.cpb
ZBGRRDpre015.cpb
ZBGRRDPX5001.CPB
ZBGRRDpxs002.cpb
File name: ZBGRRDpre002.cpb
Files of type: Contract Plan Book Files (*.cpb)
Open
Cancel

Select a CPB file to append sheets to, select Open, and the Build Sheets (append) dialog box opens.

Exit returns to main DocuPlot screen

CONTINUED ON NEXT PAGE

Project number, design area and CADD server associated with CPB are loaded into DocuPlot

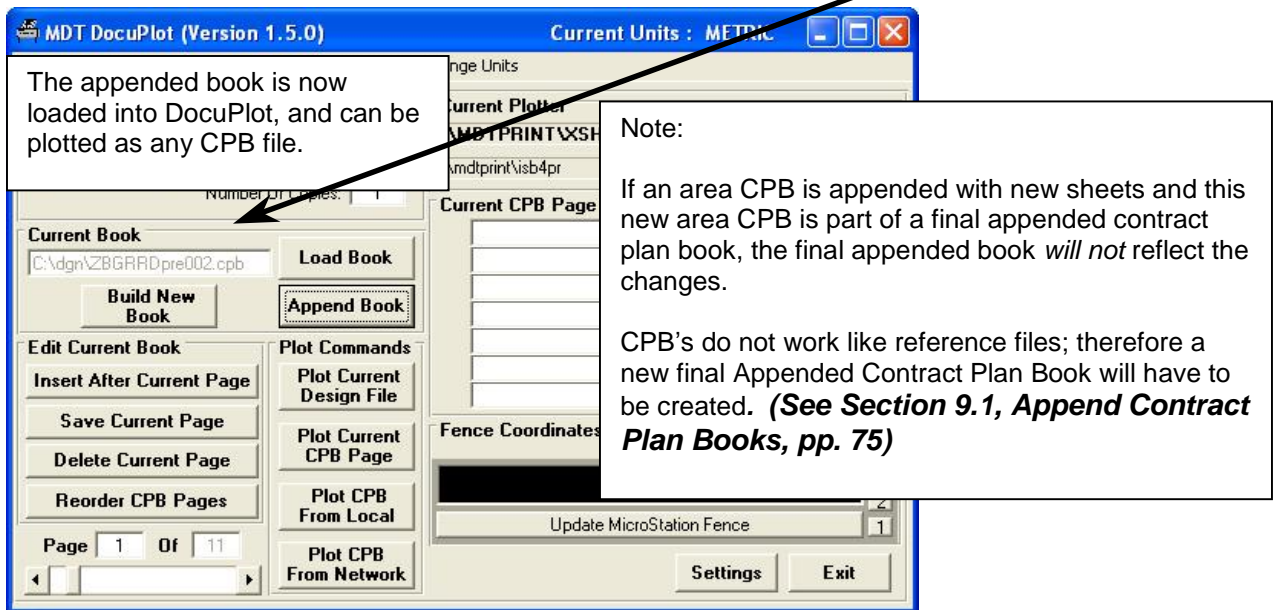
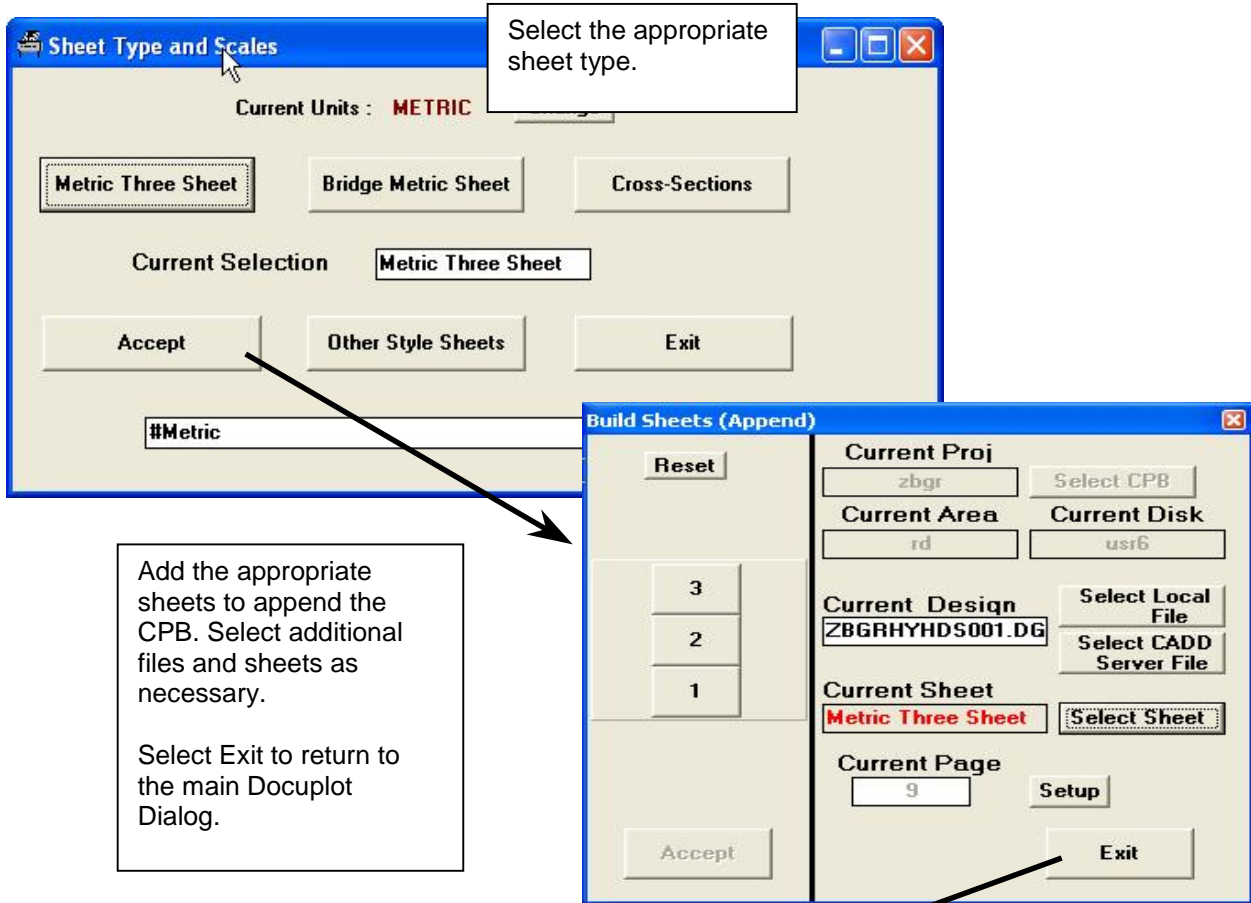
Next available page in the CPB is ready to accept design file information. (In this example, pages 1-11 are used. Page 12 is blank.)

Select Local file or Select CADD Server File.

Select a file, either local or from CADD server and Open / Accept.

The Build Sheets (Append) Dialog will return with the design file loaded into DocuPlot.

CONTINUED ON NEXT PAGE

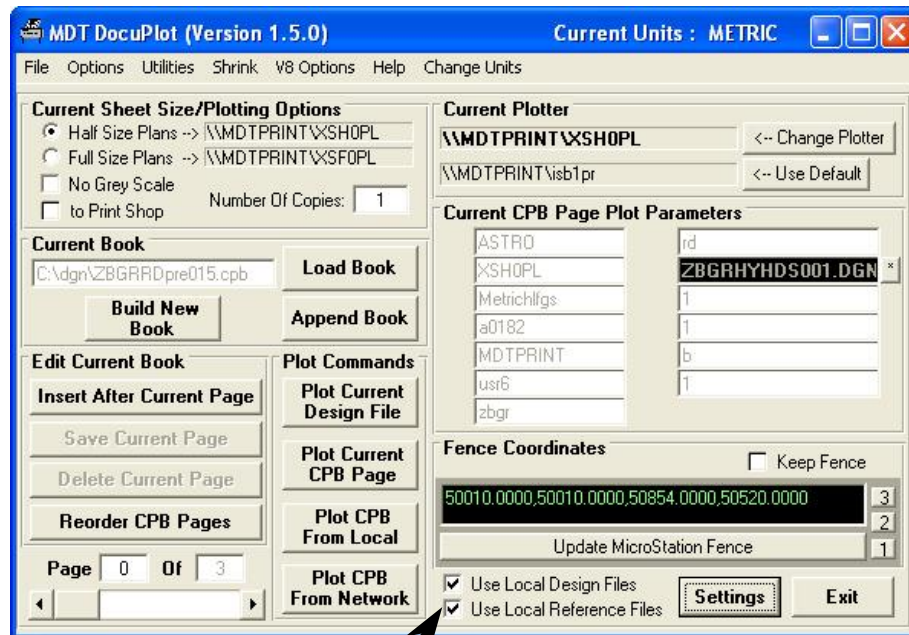


10. DOCUPLOT USERS WITH PRIVILEGES

Select users on each crew will be granted privileges to send plot requests directly to the print unit. DocuPlot privileged users have a very powerful tool that allows the user to automatically bring design files in a CPB down from the server. Having privileges allows the user to view reference files attached to a design file from the CADD server.

10.1. Privileged User's DocuPlot Screen

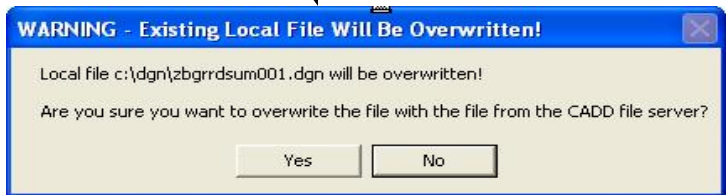
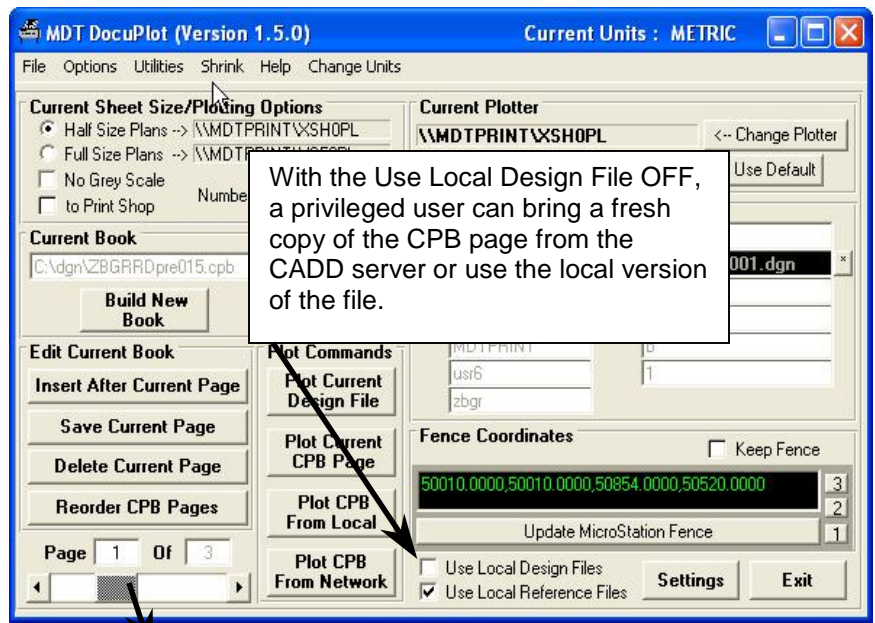
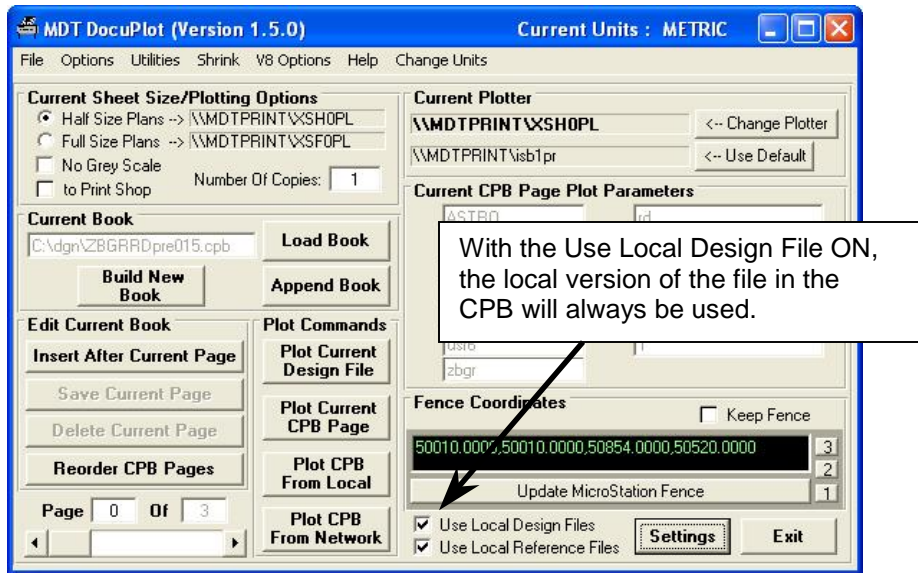
The DocuPlot screen will only appear different once a CPB is loaded into DocuPlot.



After a CPB is loaded into DocuPlot the privileged user will have two extra options on the main menu. Toggles for Use Local Files and Use Local Reference Files are on a privileged users screen.

10.2. Use Local Design Files Toggle

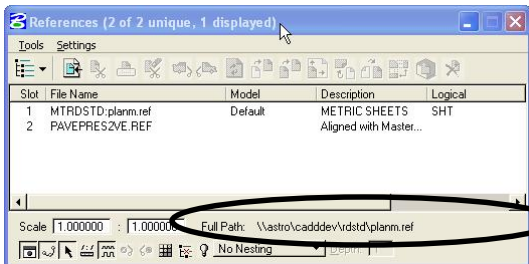
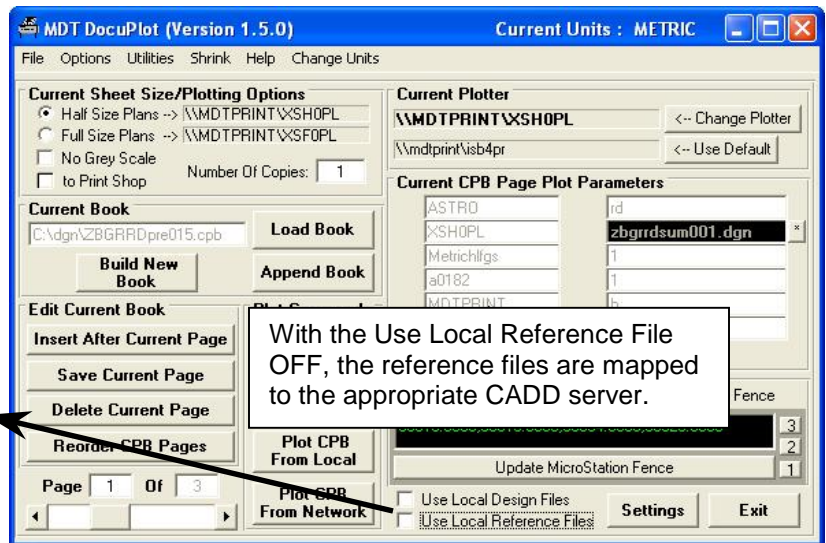
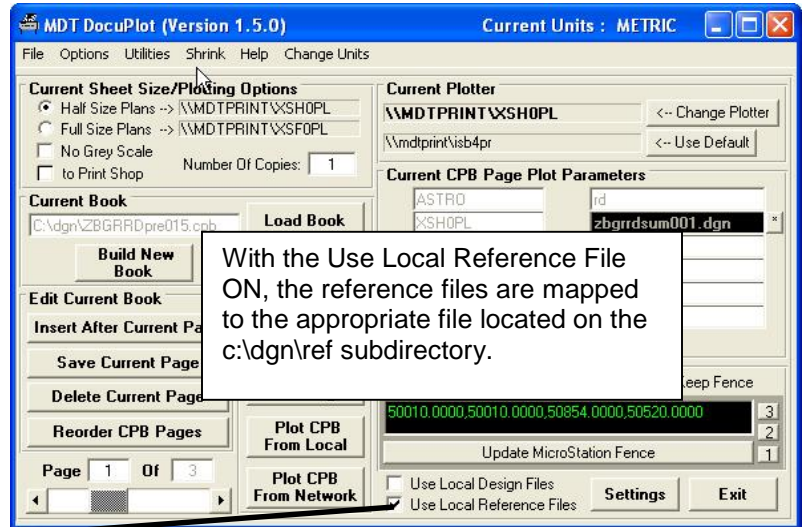
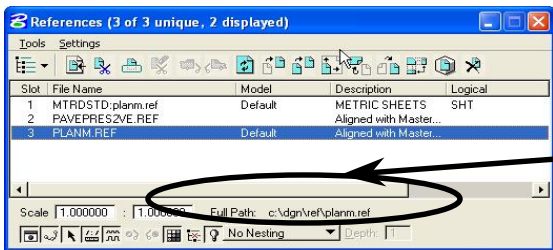
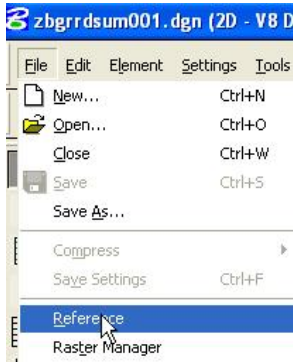
A privileged user can use the existing local files or they can bring down a fresh copy off of the CADD server when paging through the CPB. Anytime a fresh copy of a file is transferred to the local machine it will overwrite the existing file.



Yes will overwrite the local file. If changes have been made to the local file, these changes will be lost.

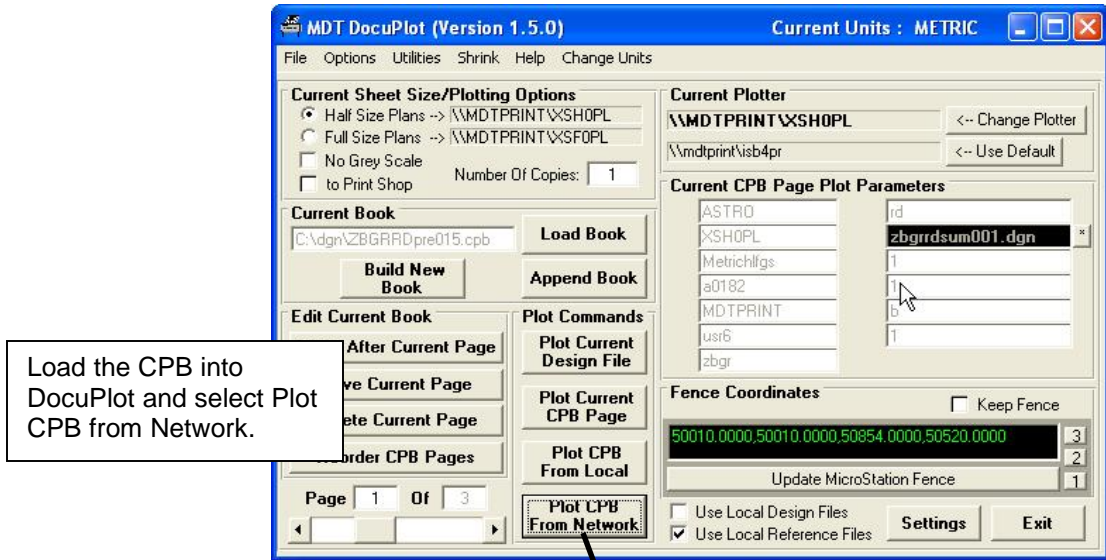
10.3. Use Local Reference Files Toggle

When viewing a CPB, a privileged user can view the attached reference files of a local design file locally or off the CADD Server.



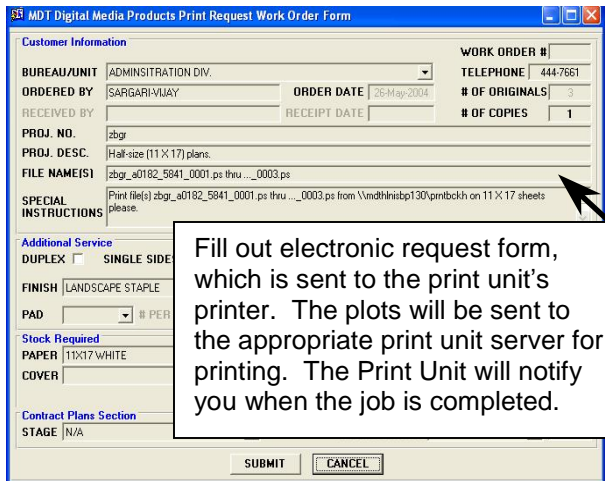
10.4. Plotting Directly to the Print Unit

Privileged users have all the same print options with the addition of printing directly to the print unit. Plotting to the print unit is only available in the Plot CPB from Network option and in plotting cross section files.

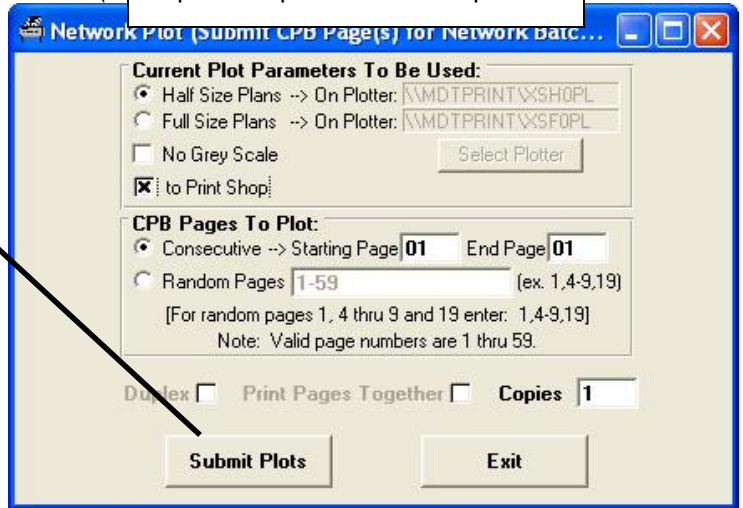


Load the CPB into DocuPlot and select Plot CPB from Network.

Select plot size, grey scale option, to print shop and sheets required.



Fill out electronic request form, which is sent to the print unit's printer. The plots will be sent to the appropriate print unit server for printing. The Print Unit will notify you when the job is completed.

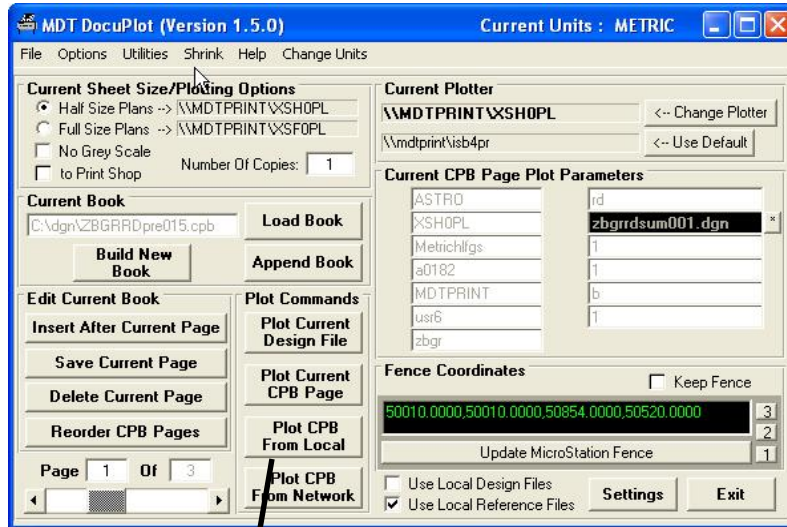


Submit request displays a MS Word preview of the print unit request document and then the document is sent to the Print Unit's printer. The plots are sent to the print units server and the network plot queue is displayed.

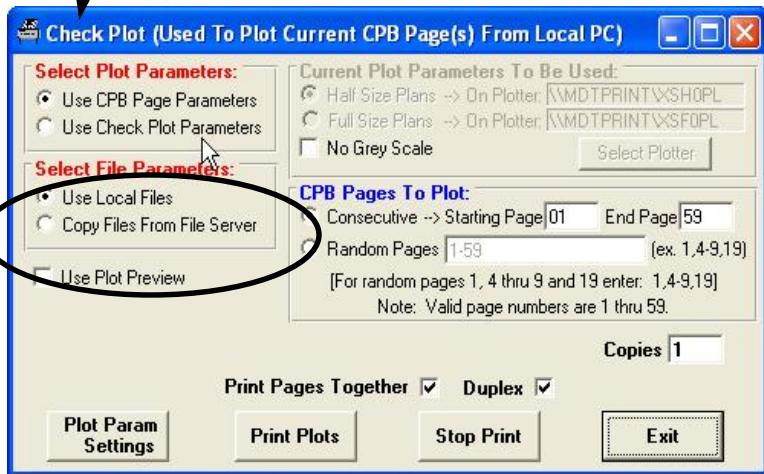
10.5. Options when Plotting CPB from Local

When plotting local files in a CPB a privileged user can use only local files or bring fresh copies of all files down from the CADD server.

Load the CPB and select Plot CPB from Local



Select file parameter of using only local files, or copy files from the file server. Copying the files will result in the local files being overwritten.



10.6. Plotting Cross Sections to the Print Unit

Users with privileges can send cross section plots directly to the print unit. Cross sections can be plotted as a CPB or as a single local file.

Open the cross section file in MicroStation

Select Plot Current Design File

Select to Print Shop, only the cross section options will be available to plot.

Fill out electronic request form, which is sent to the print unit's printer. The plots will be sent to the appropriate print unit server for printing. The Print Unit will notify you when the job is completed.

Current Design File Plotting Options

Sheet Size/Plotting Options

- Half Size Plans -> \\MMDTPRINT\XSHOPL
- Full Size Plans -> \\MMDTPRINT\XSF0PL
- No Grey Scale
- Keep Fence
- Number Of Copies: 1
- to Print Shop
- Use Local Reference Files

Plan Sheet Options

- Sheet 3 - Top
- Sheet 2 - Middle
- Sheet 1 - Bottom
- All Sheets - 1,2,3
- Bridge Single Sheet

Cross Section Options

- Consecutive -> First Sheet 1 Last Sheet 1
- Random Sheets (ex. 1,4-9,19)

Current Fence Option: Use Plot Preview

Current Plotter: \\MMDTPRINT\XSHOPL

MDT Digital Media Products Print Request Work Order Form

Customer Information

BUREAU/UNIT: ADMINISTRATION DIV.

ORDERED BY: SARGARI-VIJAY

PROJ. NO.:

PROJ. DESC.: Half-size (11x17) cross-sections.

FILE NAME(S): a0182_1743_xs001.ps

SPECIAL INSTRUCTIONS: Print file(s) a0182_1743_xs001.ps from \\mmdthrisbp130\printbckh on 11x17 sheets please.

Additional Service

DUPLEX SINGLE SIDES FOLD CUT SIZE

FINISH: LANDSCAPE STAPLE

COLLATE DRILL # OF HOLES

PAD # PER PAD GLUE ENGINEERING PRINT PAPER

Stock Required

PAPER: 11x17 WHITE

PAPER COLOR:

PAPER CUT SIZE:

COVER:

COVER COLOR:

COVER FRONT:

COVER BACK:

Contract Plans Section

STAGE: N/A

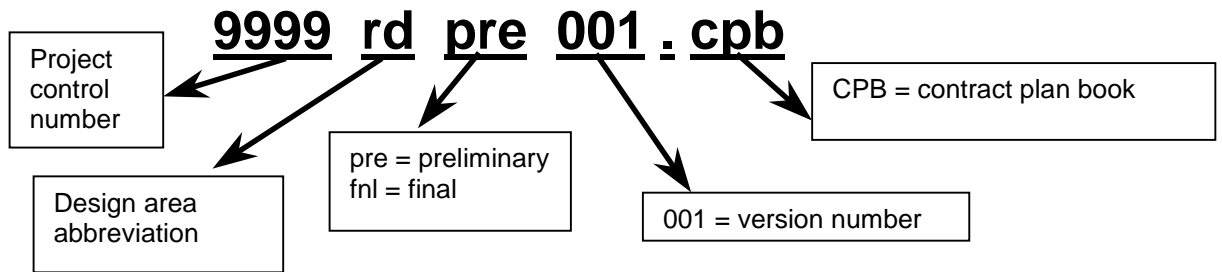
SUBMIT CANCEL

Submit request displays a MS Word preview of the print unit request document and then the document is sent to the Print Unit's printer. The plots are sent to the print units server and the network plot queue is displayed.

11. APPENDIX A – CPB FILE NAMING STRUCTURE

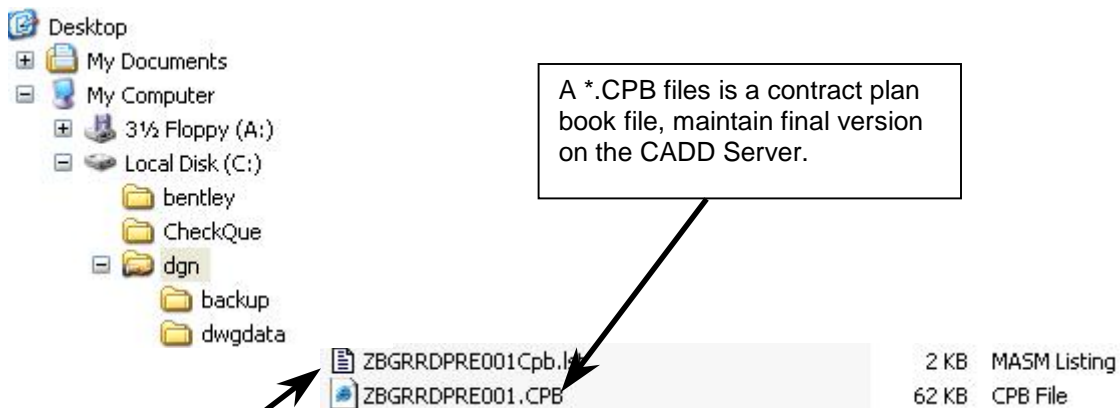
11.1. DocuPlot CPB Files and LST Files

A DocuPlot CPB follows default-naming structure when the book is created. The name uses a Control Number: Design Area: Version ####. CPB format. CPB's can be renamed in NT Explorer. This structure follows the DMS (Document Management System) file naming structure. Contact plan books are stored on the CADD server. **For cross section CPB naming see section 7.8, Build Cross Section CPB, pp. 67.**



Contract plan books are created local and saved to the appropriate CADD server. DocuPlot by default looks in the c:\dgn subdirectory when loading CPB's. If an additional CPB is created using the same project information, DocuPlot will automatically name the file with new version number.

The DocuPlot Utility, List contact Plan Information, creates a *.LST file. This file has the same CPB name with an .lst extension. This is a database-indexing file. This file can be deleted.



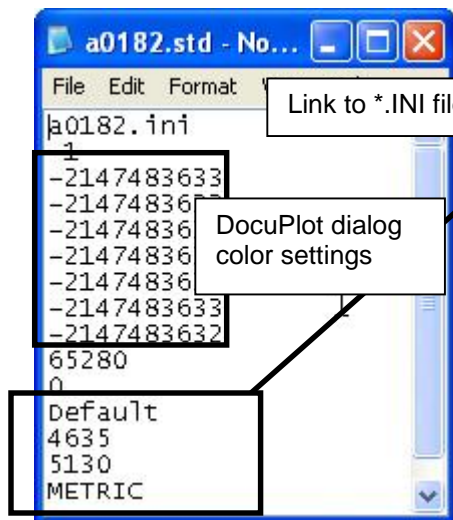
A *.LST file is a contract plan book indexing file. *.LST files can be deleted. Every time the DocuPlot Utility List contact Plan Information is run on a CPB a new *.LST file is created.

11.2. DocuPlot .INI Files and .STD Files

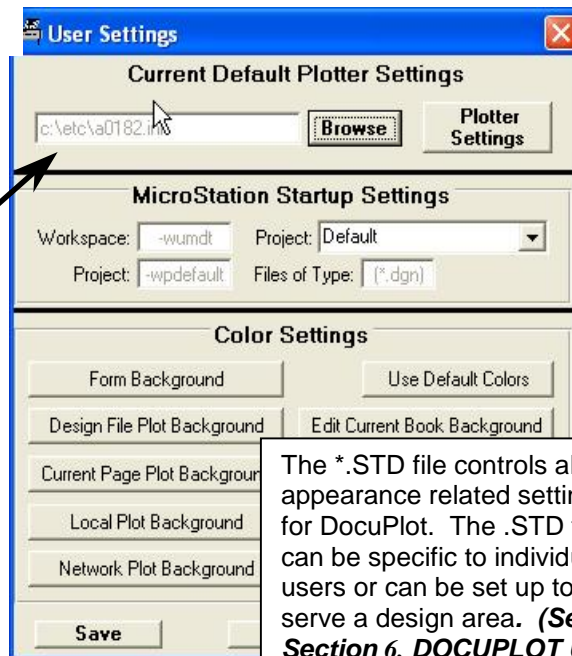
DocuPlot organizes its settings into two separate files. A *.INI file controls the default plotting settings for individual users.

A *.STD file controls the appearance of the DocuPlot dialogs, and is the link between the two files.

Both the .INI and .STD files are kept on the c:\etc subdirectory. It is prudent to back your individual files on your U drive.



Main DocuPlot dialog screen coordinates on XP Windows's desktop.



The *.STD file controls all the appearance related settings for DocuPlot. The .STD file can be specific to individual users or can be set up to serve a design area. (See Section 6, DOCUPLOT USER SETTINGS, pp. 47-59)

CONTINUED ON NEXT PAGE

The *.INI file controls all the plotter related settings for DocuPlot. An .INI file can be specific to individual users or can be set up to serve a design area. (See Section 6, **DOCUPLOT USER SETTINGS**, pp. 47-59)

```
a0182.ini - Notepad
File Edit Format View Help
vijay sargari
ADMINSITRATION DIV.
444-6311
Helena
0
0
\\MDTPRINT\XSHOPL
\\MDTPRINT\XSFQPL
0
0
\\MDTPRINT\XSHOPL
\\MDTPRINT\XSFQPL
\\MDTPRINT\ISB1PR
0
0
\\MDTPRINT\XSHOPL
\\MDTPRINT\XSFQPL
```

Plot Parameters

Current User: a0182

User Information (For Plot Requests)

Name: vijay sargari
Bureau/Unit/Section: ADMINSITRATION DIV.
Phone Number: 444-6311

Final Plot Parameters (For Creating CPB)

Final Plot Plotting Options

Half Size Plans -> On Plotter: \\MDTPRINT\XSHOPL
 Full Size Plans -> On Plotter: \\MDTPRINT\XSFQPL
 No Grey Scale

Plot Server: ASTRO View to Plot: 1

Network Plot Batch Que: \\MDTHLNNISBP130\PLOTREG

Check Plot Parameters (For Local Plots)

Check Plot Plotting Options

Half Size Plans -> On Plotter: \\MDTPRINT\XSHOPL
 Full Size Plans -> On Plotter: \\MDTPRINT\XSFQPL
 8.5 x 11 Plans -> On Plotter: \\MDTPRINT\ISB1PR
 No Grey Scale

Cross Section Plot Parameters

Cross Section Sheet Size And Plotter

Half Size Cross Sections -> On Plotter: \\MDTPRINT\XSHOPL
 Full Size Cross Sections -> On Plotter: \\MDTPRINT\XSFQPL
 No Grey Scale

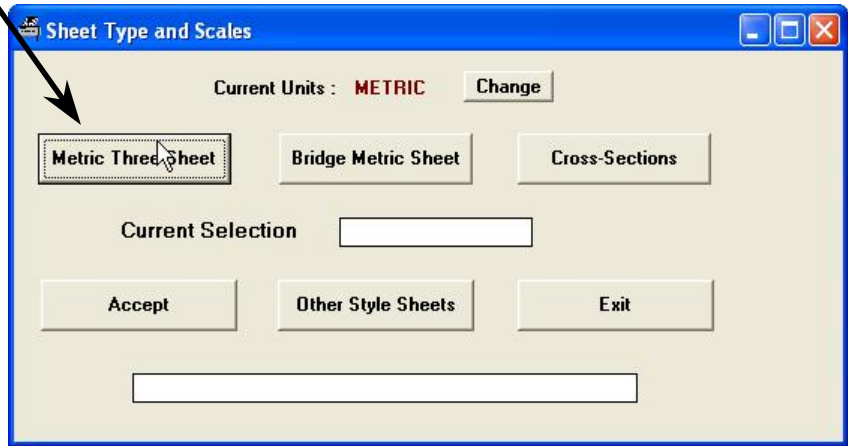
Buttons: Save, Load, Exit

12. APPENDIX B – SHEET TYPES FOR INSERTING INTO CPB

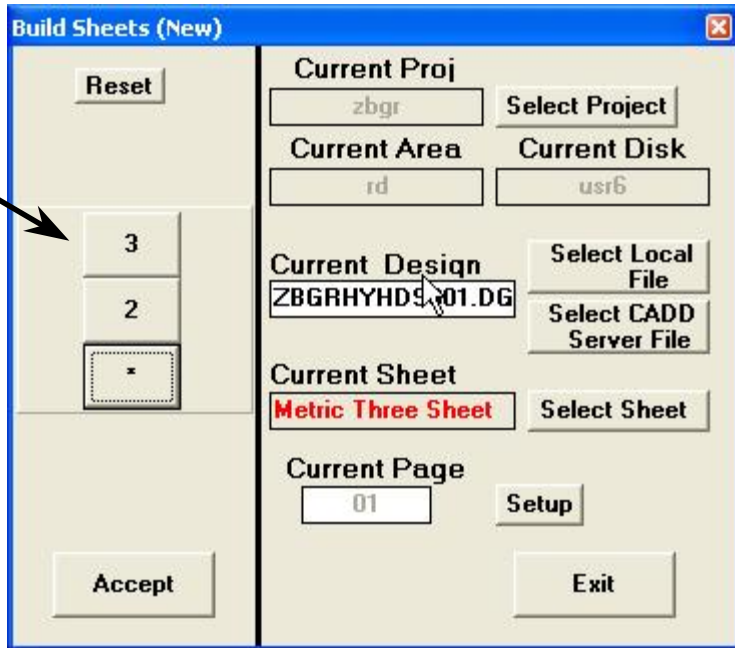
DocuPlot supports a variety of sheet types that can be placed into a CPB. DocuPlot supports current standards for each design area as well as legacy formats.

12.1. Standard Three Plan Sheets

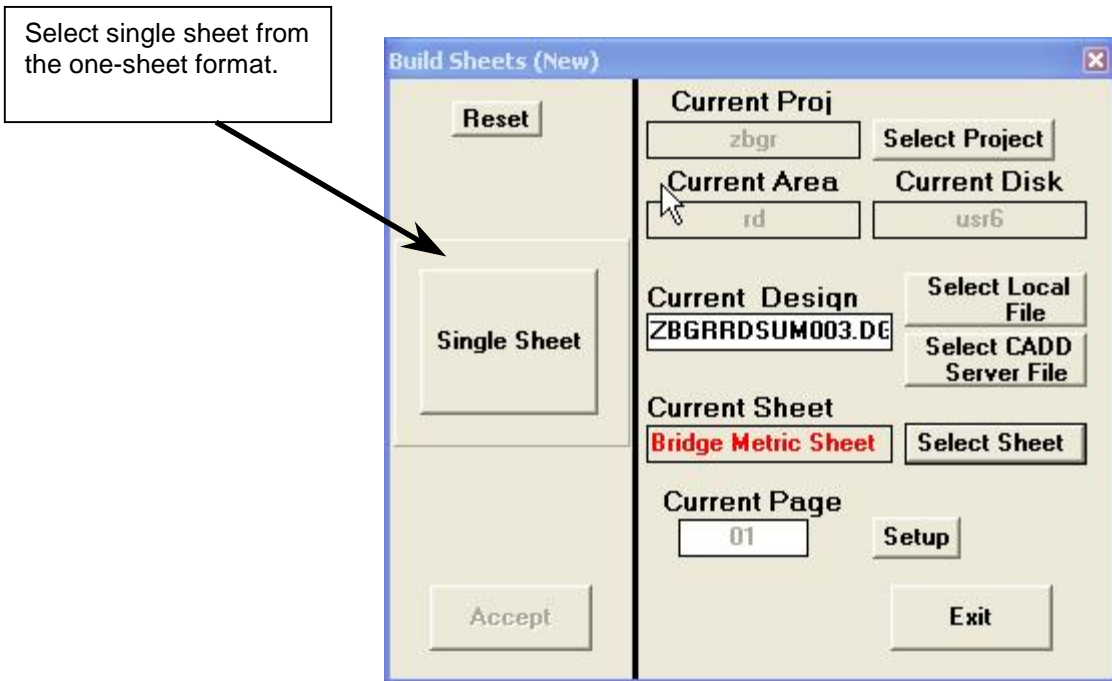
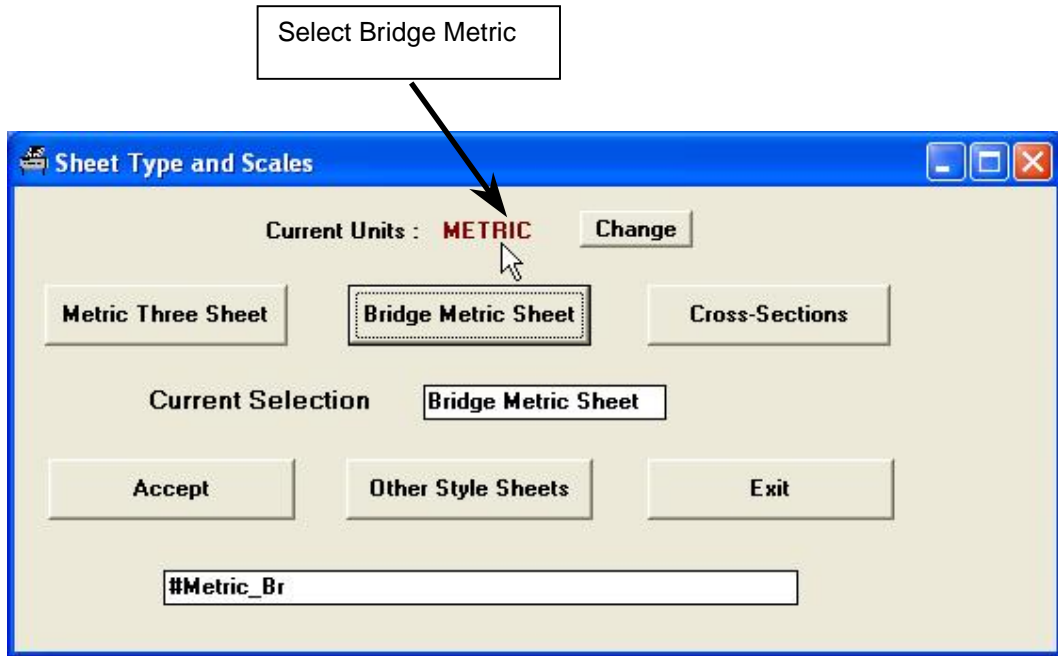
Select Type of Sheet



Select one sheet from the three-sheet format.



12.2. Standard Bridge Plan Sheets



12.3. Legacy Plan Sheets

Select Other Style Sheets

Current Units : METRIC Change

Metric Three Sheet Bridge Metric Sheet Cross-Sections

Current Selection

Accept Other Style Sheets Exit

Old Style Sheets

Traf Spec Plan /Scl (1"=100') TScal Traf Half Metric Std. Book

Traf Sum Plan (1"=100')

Traf 15 Sheet Typical (1"=5')

User Def Summary (1"=1')

User Def ROW Exhib

Sheet Type and Scales

Current Units : METRIC Change

Metric Three Sheet Bridge Metric Sheet Cross-Sections

Current Selection Traf Spec

Accept Other Style Sheets Exit

#Traf_SP

Select legacy sheet style used in the file being placed into the CPB.

Select sheet location from the sheet format displayed.

Build Sheets (New)

Reset

Current Proj zbgr Select Project

Current Area rd Current Disk usr6

Current Design ZBGRDSUM003.DEG Select Local File

Select CADD Server File

Current Sheet Traf Spec Select Sheet

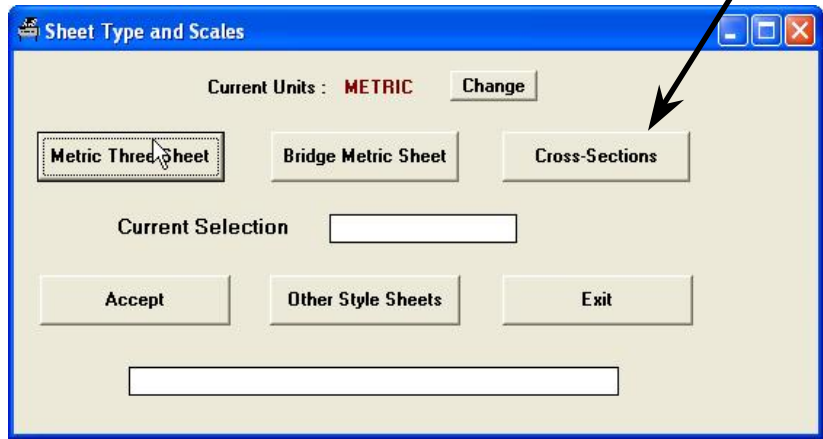
Current Page 01 Setup

Accept Exit

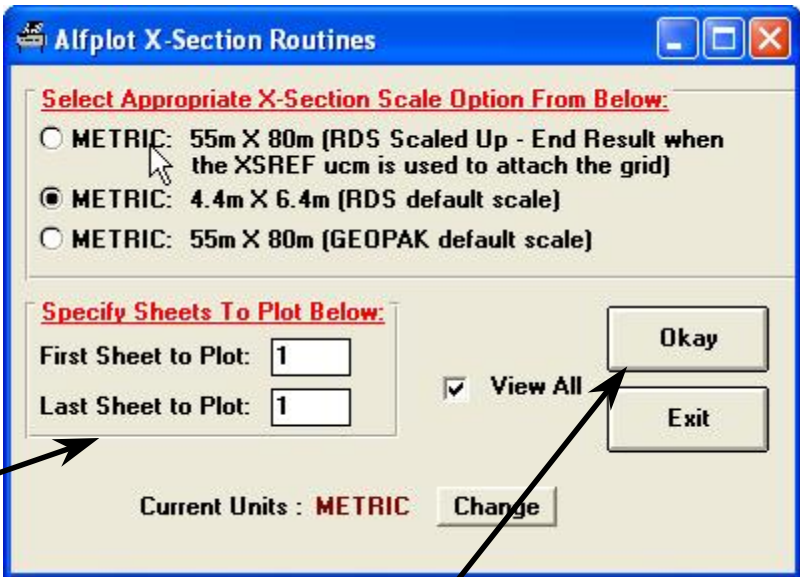
12.4. Cross Section Sheets

Cross Section sheets are placed in a CPB separate from other plan sheets. It is easier to rebuild a cross section CPB, rather than trying to insert pages.

Select Cross Sections, option only available when a cross section file is selected.



Select the type of cross sections scale, and the method the cross sections were created.



Specify the sheets to plot (1 – 500).

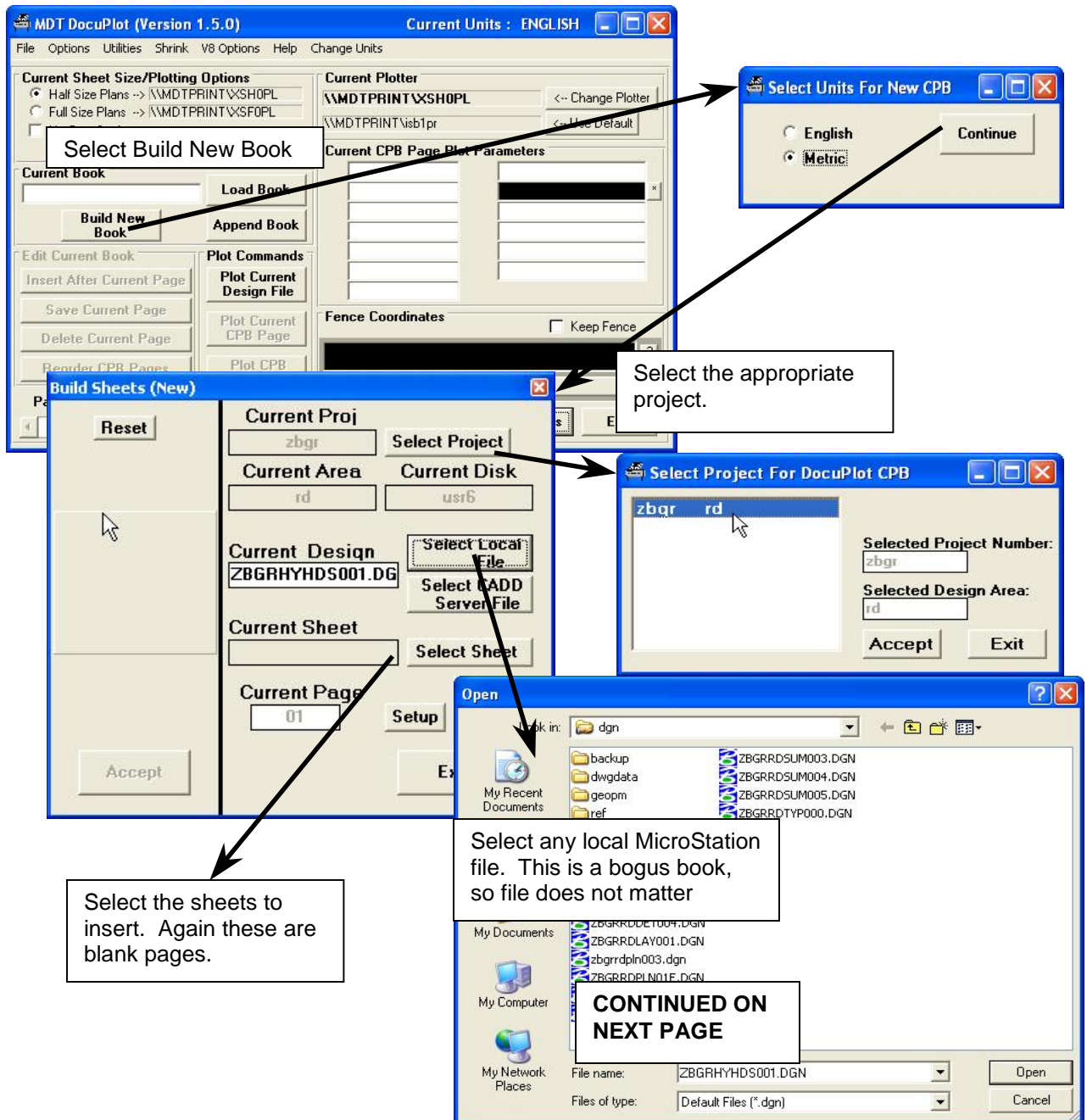
Okay creates the CPB book and returns you to main DocuPlot dialog.

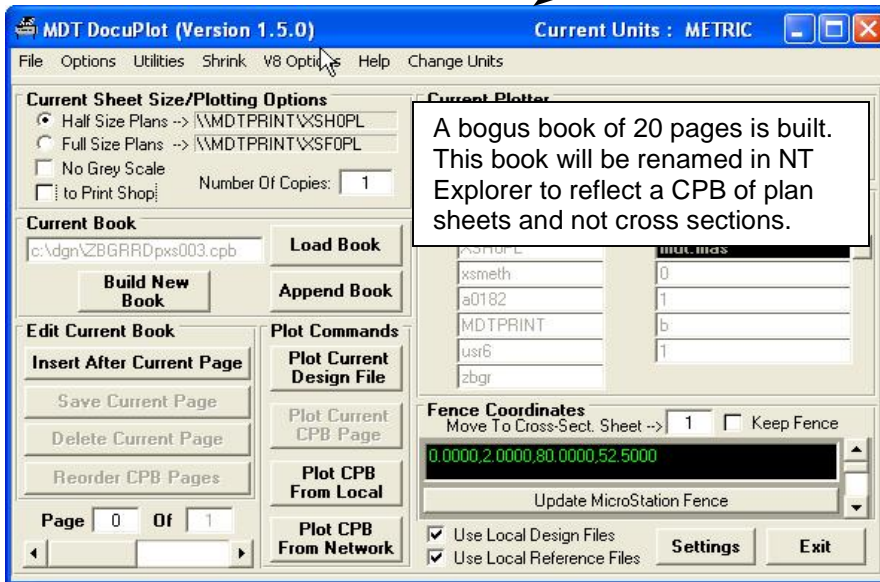
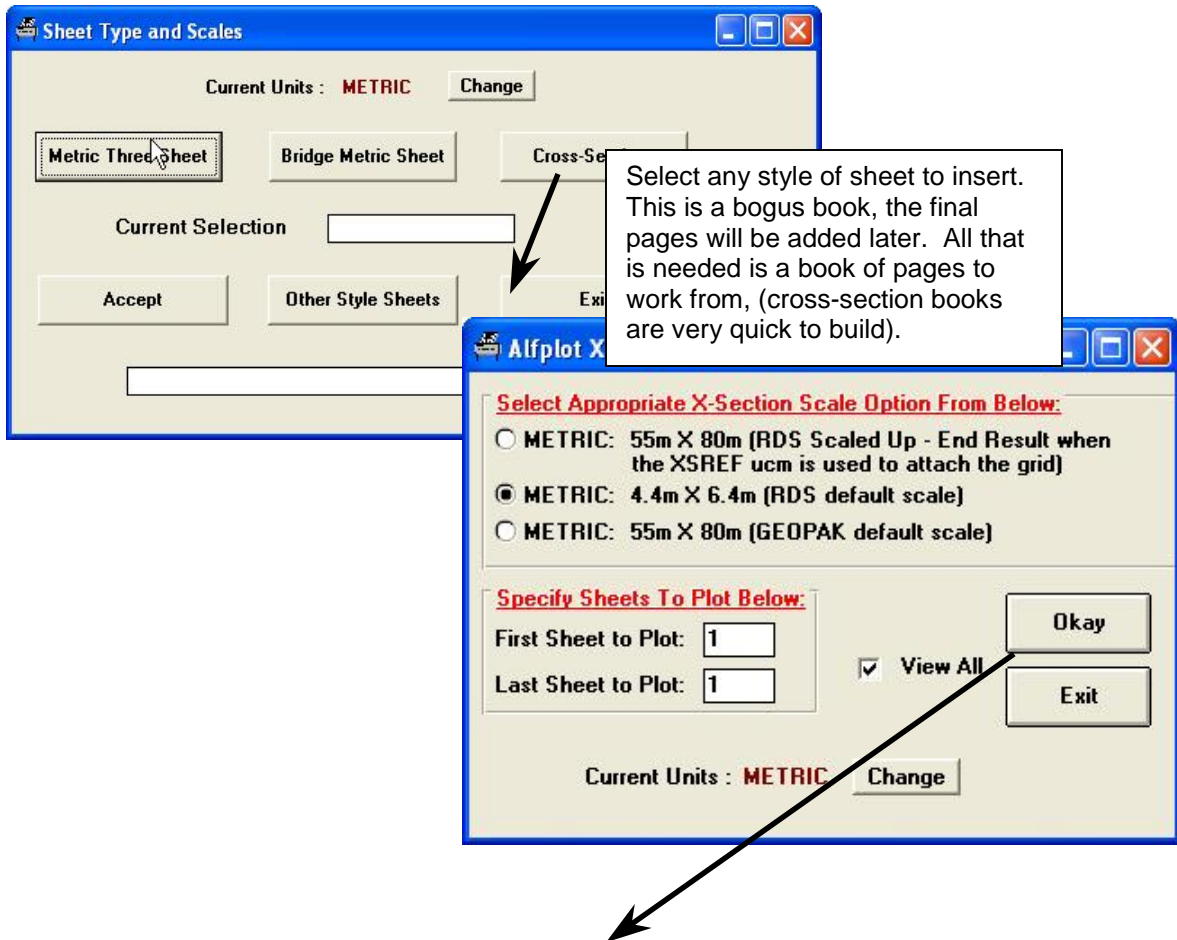
13. APPENDIX C – CPB'S FROM NON STANDARD SHEETS

Contract Plan Books can be built from any style of sheet. All that is in a CPB is the CADD Server information, the file, and the coordinates. Non-standard sheets in DocuPlot will require the coordinates to be entered manually.

13.1. Create a Bogus CPB

Create a CPB that is approximately the same size and length of the bogus plots. Simply create a book of blank pages. The next step will be to replace each page with the correct file and correct coordinates.





13.2. Determine Coordinates for Non-Standard Sheets

Each sheet to be used as a new page in the CPB has coordinates that must be recorded. These coordinates will be used during the editing CPB process. It may be helpful to create a Notepad, Excel, or Word document. The cut and paste method works best as it eliminates manual entering of numbers, and eliminates some error.

XYZ Text

Label Point Coord...

Order: XYZ
Units: Master
Accuracy: 1234
Separator: Newline
View: Cursor
X Prefix: X=
Y Prefix: Y=
Z Prefix: Z=

X=55040.9541
Y=52547.0616
Z=

Active MicroStation Drawing that will become first page in the CPB.

Use the Label Point Coordinate command. The format of the label for DocuPlot is x and y separated by a comma with no prefix.

500422400, 505692260, 508435857, |510751240

Select the text in MicroStation, use Edit > Copy to put text into clipboard.

Edit > Paste to put clipboard text into the document.

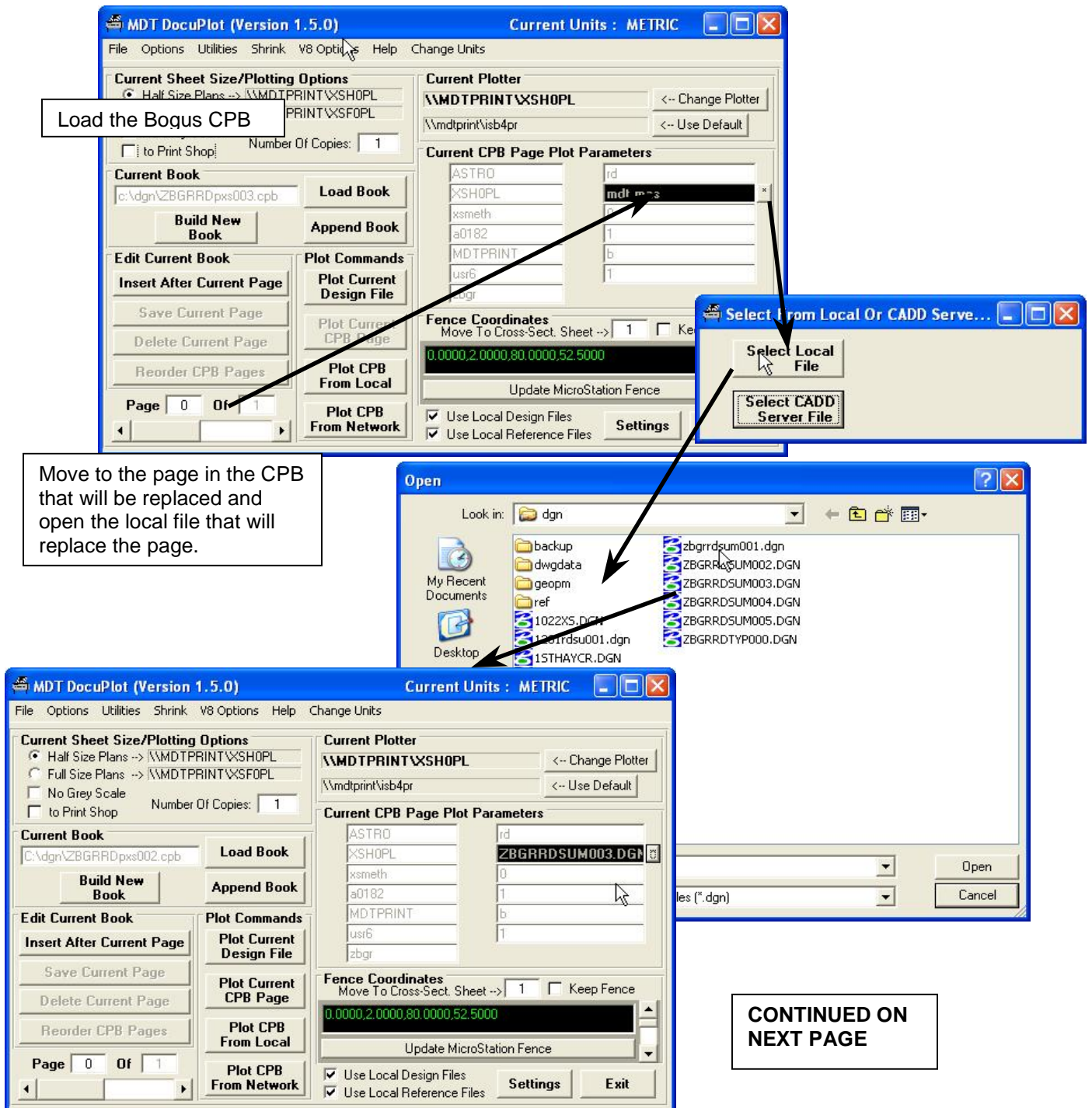
Untitled - Notepad

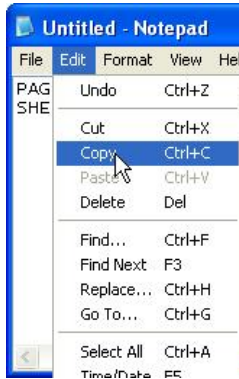
FILE ZBGRDSUM003.DGN

SHEET COORDINATES(LOWER LEFT XY, UPPER LEFT XY)
500422400, 505692260, 508435857, 510751240

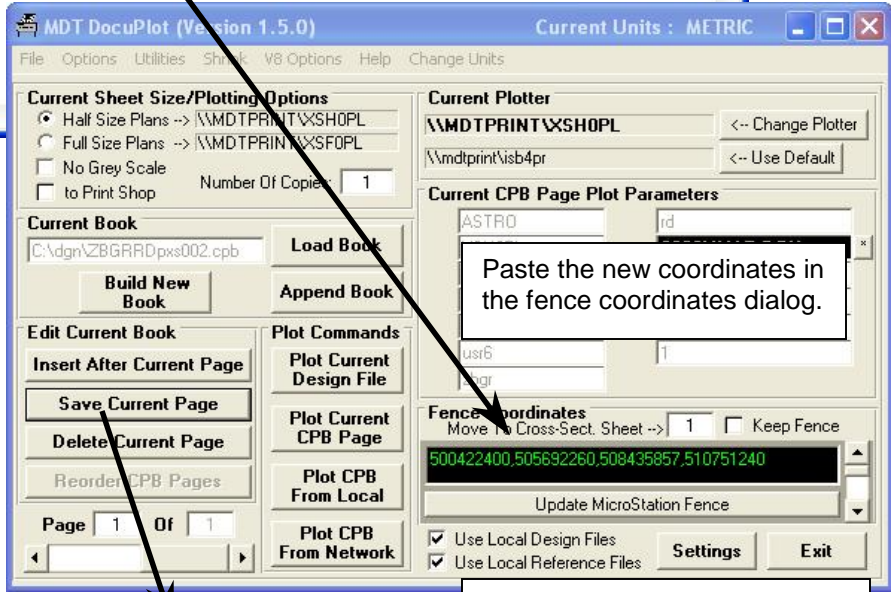
13.3. Save Design File with Non-Standard Coordinates

Each page in the bogus CPB will need to be replaced with the file name and coordinates of the non standard sheets. **See section 8, Edit CPB - Save Current Page, pp. 71**, for the editing method used in saving files displayed in MicroStation.





Open document with coordinates for the new sheets. Copy the appropriate coordinates for the sheet being replaced.



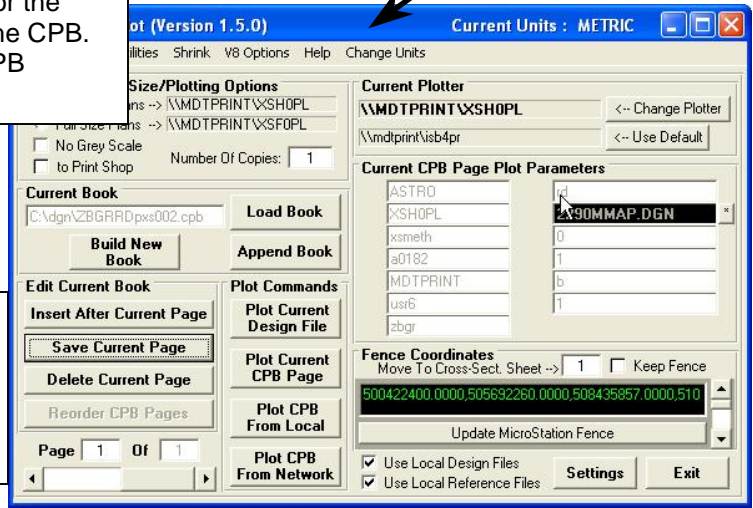
Select Save Current Page

Paste the new coordinates in the fence coordinates dialog.



Highlight Enter New Full-Size Sheet Fence Coordinates and dialog will reflect new value pasted into fence coordinates

The new file and fence coordinates are now stored for the appropriate page. Follow the same procedure for the remaining portion of the CPB. Delete any unused CPB pages.



Use only the scroll bar in the CPB pages dialog to move through the files.