# LAB 19 - Creating files and placing cells

Regression analysis can be used to facilitate the development of horizontal alignments by creating a 'best-fit' alignment through defined points.

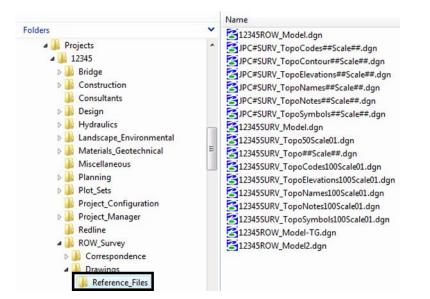
# **Chapter Objectives:**

- Open MicroStation Title Sheet using CDOT CDOT User workspace
- Place RLS Stamp at correct scale for Title Sheet

Standard sheets for Survey and ROW plans were copied into the project directory for use in training. Prior to beginning, use *Windows Explorer* or *My Computer* to review the training directory contents.

		Name
Folders	~	Reference_Files
Projects	~	Tabs
a 퉲 12345		12345ROW_Cnty-24x18_##.dgn
> 퉲 Bridge		212345ROW_Cnty-24x36_##.dgn
Description Description		212345ROW_Mon##.dgn
퉬 Consultants		12345ROW_Ownership##.dgn
Þ 퉲 Design		12345ROW Plan##.dgn
b 🏭 Hydraulics	_	12345ROW_TabProp01.dgn
Landscape_Environmental		12345ROW_TabProp02.dgn
Materials_Geotechnical	=	12345ROW_TabProp03.dgn
🌗 Miscellaneous		12345ROW_TabProp04.dgn
Þ 鷆 Planning		12345ROW_TabProp##.dgn
Plot_Sets		12345ROW_TitleSht.dgn
Project_Configuration		12345SURV_MonRcrd##.dgn
> 鷆 Project_Manager		12345SURV_PlanLSCD##.dgn
🌗 Redline		12345SURV_PlanPCD##.dgn
a 🌗 ROW_Survey		12345SURV_TitleLSCD##.dgn
D Dorrespondence		12345SURV_TitlePCD##.dgn
Drawings		
Reference_Files		

Navigate to C:\Projects\12345\ROW\_Survey\Drawings



## C:\Projects\12345\ROW\_Survey\Drawings\Reference\_Files

### **MicroStation Operation**

There are three easy methods to Start MicroStation

- Choose Start > All Programs > Bentley > MicroStation V8 XM > MicroStation V8 XM Edition and MicroStation will start and allow you to choose the design file, once the design file opens InRoads can be loaded as needed.
- Choose the Desktop icon for MicroStation if one is available on your machine. MicroStation will start and display the MicroStation Manager interface.
- If Windows Explorer is open, <D> <D> on a \*.dgn file will launch MicroStation.

Use one of the above methods to start MicroStation.



1. In the MicroStation Manager dialog box, go to the *Workspace* group section and change the User field to *CDOT USER*, the Project field to *12345* and the Interface field to *CDOT*.

Look in:	12345			- 🗿 🎓 📂 🗔 -	ື 🗋 🚰 🖻			
C.	Name		Size	Date modified				
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Network	File name:	-y		•	Open	User:	CDOT User	
	Files of type: All Files (".")			•	Cancel	Project:	12345	
		Open as	read-only		Options	Interface:	CDOT	-

This workspace setup should load the correct MicroStation environment (including toolbars) when the selected MicroStation file is opened.

- 2. Navigate to the folder **ROW\_Survey\Drawings**
- 3. **<D>** on file *12345ROW\_TitleSht.dgn*
- 4. **<D> OK** in the *MicroStation Manager* dialog box to open the file.

Look in:	Drawings		•	G 💋	b 📂 🛄 🕇	ľ	2	۱		3D - V8 DGN	
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-	312345ROW	_Plan##.dgn	1/18/2008	8:15	MicroStation D.						
ecent Places	312345ROW	TabProp01.dgn	1/18/2008	8:15	MicroStation D.						
	312345ROW	_TabProp02.dgn	1/18/2008	8:15	MicroStation D.					- <del></del> -	
	312345ROW	_TabProp03.dgn	1/18/2008	8:15	MicroStation D.						
Desktop	312345ROW	_TabProp04.dgn	1/18/2008	8:15	MicroStation D.						
<b>1</b>	312345ROW	_TabProp##.dgn	1/18/2008	8:15	MicroStation D.						_
11	<b>12345ROW</b>	_TitleSht.dgn	1/18/2008	8:15	MicroStation D.		11				_
CDOT User	12345SURV	_MonRcrd##.dgn	1/18/2008	8:15	MicroStation D.		۰.				
-	312345SURV	_PlanLSCD##.dgn	1/18/2008	8:15	MicroStation D.		1	· ·			
	12345SURV	_PlanPCD##.dgn	1/18/2008	8:15	MicroStation D.						
Computer	12345SURV	_TitleLSCD##.dgn	1/18/2008	8:15	MicroStation D.						
	12345SURV	/_TitlePCD##.dgn	1/18/2008	8:15	MicroStation D.						
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Network	•	11	1				Þ.				
	File name:	12345ROW_TitleSh	it.dgn		-	Oper	1		User:	CDOT User	
	Files of type:	All Files (*.*)			-	Cance	el	1	Project:	12345	
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Your graphics window should appear as shown.

**Note:** The file names and directory structure used in this course are based on current information. As the CDOT configuration develops and directory structure and file naming conventions are standardized, these may change.

The default Model scale for CDOT plan sheets is 1:100. For sheets that are text based such as title sheets, and tabulation sheets, the Model scale is set to 1:1. Using the annotation scale lock synchronizes both graphics and text placed in the drawing. For drawings at other scales, the model properties will require modification. See the instructor if additional information is required.

Insert the Region, Designer information in the upper-left corner of the sheet.

5. The *CDOT Menu* should open by default when MicroStation is launched. If for any reason the *CDOT Menu* is not open, you can open it from the Main Tool frame.



6. From the CDOT Menu <D> on Group Display>Select All.

<u></u> (	DOT Menu			• 🔀
CDO	OT Groups CDOT Tools Options	Help		
$ \langle \rangle $	Drafting Bridge Construction	isting	Proposed	?
	Design Geometry			
$\checkmark$	Hydraulics Landscape Environmental Materials Geotechnical	der sr RE	<ul> <li>Clip Boundary</li> <li>Match Line</li> <li>Utility Revision Cloud</li> <li> <sup>™</sup> Border (Plan 11"×17")     </li> </ul>	<b>E</b>
$  \\   \\   \\   \\   \\   \\   \\   \\   \\   \\$	ROW Survey Traffic ITS Utilities	vork		
	Select All Deselect All Settings	bols Text	Border (Title 11'x8.5") Portrai     Border (Typical Section 11'x     Border Limits (11'x17")	

- 7. Select ROW Survey in Group Display
- 8. Set the *Status* to **Proposed**
- 9. Select Borders PLS

10. Select the Survey Supervisor Kevin Williams

DOT Groups CDOT Tools	Options Help	
Drafting Bridge Construction	Status © Existing	2
Design Geometry Hydraulics Landscape Environmental	ROW Survey	
Materials Geotechnical     ROW Survey	Border Border PLS * Dave Mantych * Dave Stewart * Jack Messenger	
Utilities	Easement	
	Government (PLSS) Kevin Williams Kevin Williams	
tergens des menset har egente.	Miscellaneous Miscellaneous	
	Pattern 🔆 Template	
	Property Ownership	
Settings	ROW	

11. In the Active Settings dialog box set Active Scale to 1.00 and Active Angle to 0.00

Active Settin	ngs	
Active Scale:	1.00	Apply
Active Angle:	0.00	Close

- 12. <D> Apply
- 13. <D> Close
- 14. *Place* the **cell** at the upper-left corner of the sheet as shown



#### Challenge Exercises

• Verify the coordinates at the lower left corner of the sheet (tentative snap). Should be at 0,0,0

	Cell: SHEET_ROW-Plan-S	iheet \ Shape, Level: SHEET		ary
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- Determine the length and height of sheet (measure tools or AccuDraw). Should be 11 x 17
- Investigate the levels the graphics are on (level display, element information, or pop-up information)