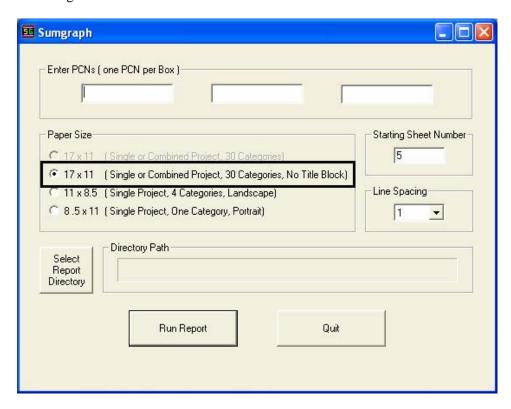
CDOT SAQ Sheets



This document guides you through opening the Summary of Approximate Quantities Sheet created within your project folder and attaching the DXF files created from the Sumgraph software, through the use of MicroStation Reference file tools. Upon completion of the following procedures, the Sumgraph sheets can be plotted with the CDOT Batch Printing Process.

Summary of Approximate Quantities (SAQ) Sheets Creation Saving the SAQ Sheets

1. Generate your SAQ Sheets through the Sumgraph program. Ensure that the Directory Path for the DXF files is set to the Project Specific Design\Drawings\Reference_Files folder. The MicroStation levels have been adjusted in Sumgraph to accommodate the latest CDOT configuration. The following Menu has been modified. The default selection is shown below:



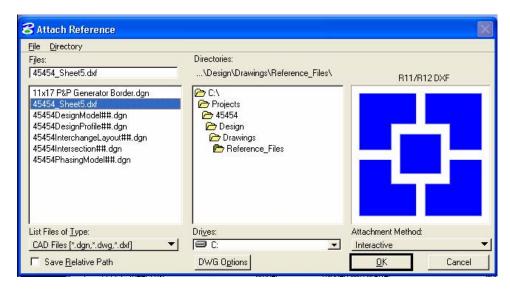
Note: The designer no longer has the option to select the Sumgraph sheet creation that includes an 17x11 border. The only method available is the No Title Block option.

Creating the MicroStation Sheet Files

2. The Drawing Sheet File to be used is located in the Project Directory Structure under the Design\Drawings Folder called 45454ApproximateQuantities##.dgn. The Project Creation Utility has replaced the JPC# portion of the file name with the unique Project Code, in this example shown as 45454. The file can be renamed to 45454ApproximateQuantities01.dgn, replacing the ## with a sheet number value. The Windows Explorer Copy & Rename can also be used in order to preserve the original drawing file, if desired.

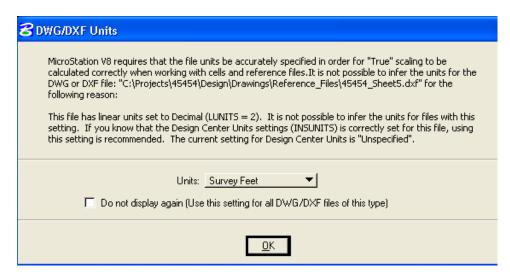
Note: It is an acceptable procedure to place all your SAQ sheets within one file if desired, but this exercise will only cover the placement of one SAQ sheet per Drawing file.

- 3. Open the 45454ApproximateQuantities01.dgn. Notice that the Border Cell has already been placed within the file. The cell should not need to be relocated or scaled, as it has been positioned at the correct coordinates and scaled appropriately to accommodate the Sumgraph DXF reference file attachment. For information, the drawing has been scaled to 1"=200' and the coordinates for the lower left hand corner of the border read X=43.50, Y=-1.00, Z=0.
- 4. Select the Reference file attachment dialog box, locate and attach the desired Sumgraph DXF file from the Project Specific Design\Drawings\Reference_Files folder. It may be necessary to manually move the desired files to this location, prior to attachment, if the sheets were not placed in this folder in step 1 above. Select the **OK** button to proceed.



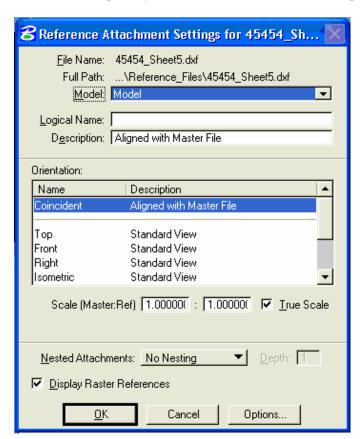
Note: If the DXF file does not show up in the list, it may be necessary to change the file type to CAD Files (*.dgn, *.dwg, *.dxf). The list should now contain the desired file.

5. The **DWG/DXF Units** Dialog box will now appear. The units should be set by default to Survey Feet. Accept this setting by selecting the **OK** button.



Note: Do Not check the "Do not Display again" settings box, as this setting is useful for all DWG/DXF attachments and may vary on occasion.

6. The Reference Attachment Settings Box will appear. All the settings on this dialog box can be accepted by default. Select the **OK** button to proceed.



CDOT SAQ Sheets.pdf

- 7. The Sumgraph DXF sheet will now be attached as a reference file in the correct location for printing. Place the appropriate Resident Engineer Identification cell and update any other Titleblock information desired. The CDOT Titleblock can be updated with the **Edit Text** command.
- 8. After the initial sheet has been created, each consecutive sheet can be copied and renamed through the Windows Explorer or through the File > Save As command in MicroStation. The Reference file Attachment will need to be updated for each sheet. Open the Reference dialog box, Double click on the attached Reference file, the attachment settings box will appear. Browse to the desired location, select the desired sheet and select the OK button twice. The Sheet file will now contain the correct Sumgraph DXF sheet.
- 9. After creating the desired SAQ sheets, proceed with the **CDOT Batch Printing** Process. Instructions for batch printing can be found on the start > All Programs > _CDOT_CADD_Information > Workflows > CDOT Batch Printing or on the CDOT Menu under Help > Workflows.
- 10. The Sumgraph program may need to be re-run during the course of the Design Project, in order to update the SAQ DXF Sheets with revised information. Simply maintain the identical naming convention for the DXF files, save the files to the correct folder in the Project directory structure and proceed with CDOT Batch Printing.