820 - Exhibits

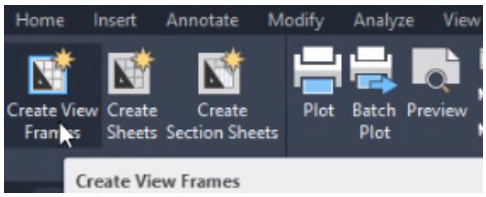
Thursday, April 14, 2022 11:54 AM

Creating Plan Sheets

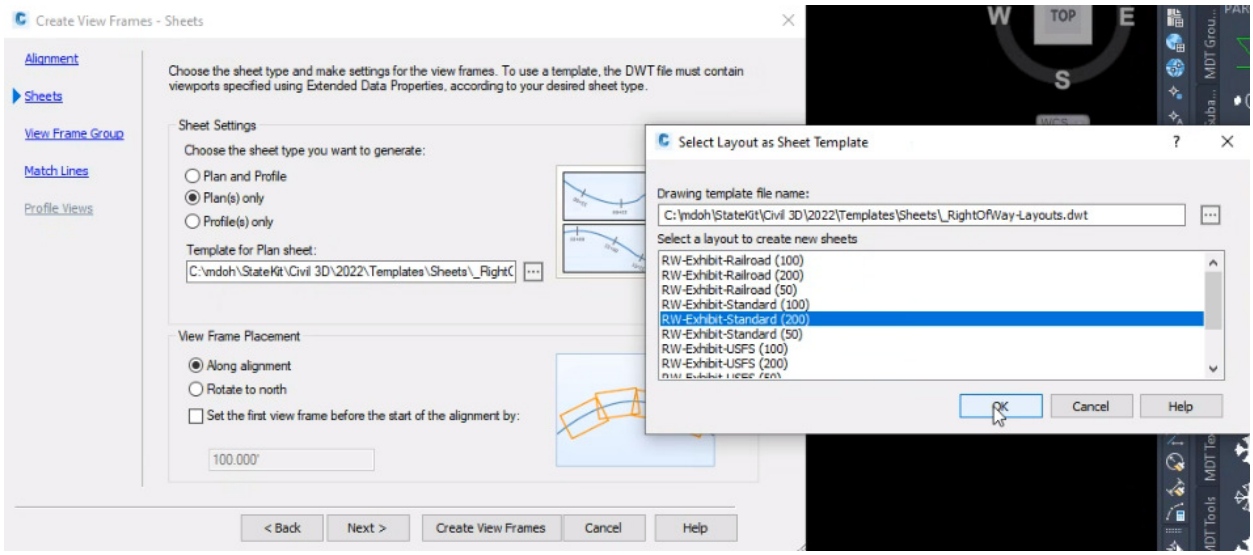
View frames will need to be created within the ROMAP file using the r/w exhibit template. The view frames created for the r/w plans are tied to the plan sheet template and cannot be used for exhibit creation. Be careful not to override the r/w plans view frame groups when creating the exhibit view frame groups.

Creating View Frames

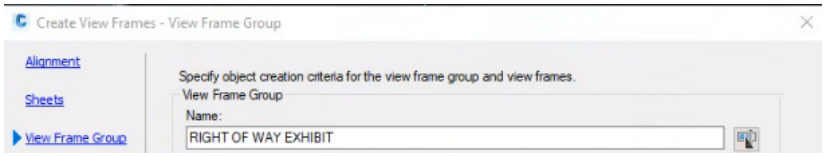
The view frames are created in the model space of the ROMAP file. Under the Output tab, Plan Production ribbon, select Create View Frames.

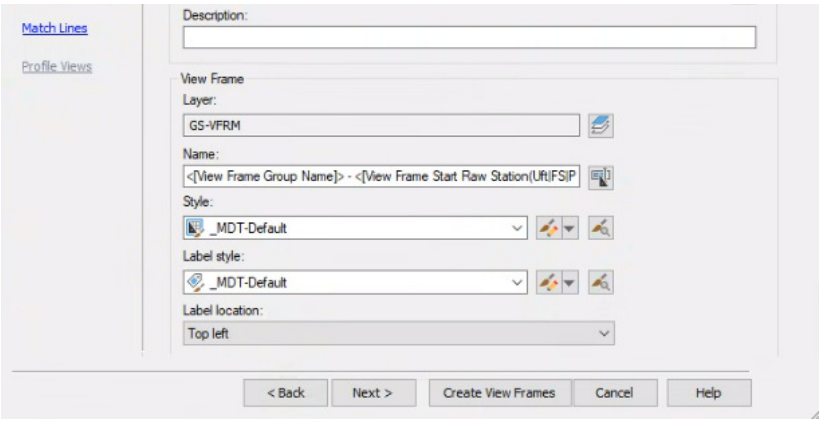


Under Alignment set the Alignment to RWBL, set the Station Range to User specified and change the begin station to match the right-of-way plan sheet, click Next. *Make sure the begin and end station range of the exhibit view frame groups matches the begin and end station range of the r/w plan view frame groups.* Under Sheets, Sheet Settings, select Plan only, under Template for Plan sheet, browse to the right of way layouts folder (C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts), select RW-Exhibit-Standard-200 for 200 scale plans. This needs to match the scale of the r/w plan sheets. Select Next.

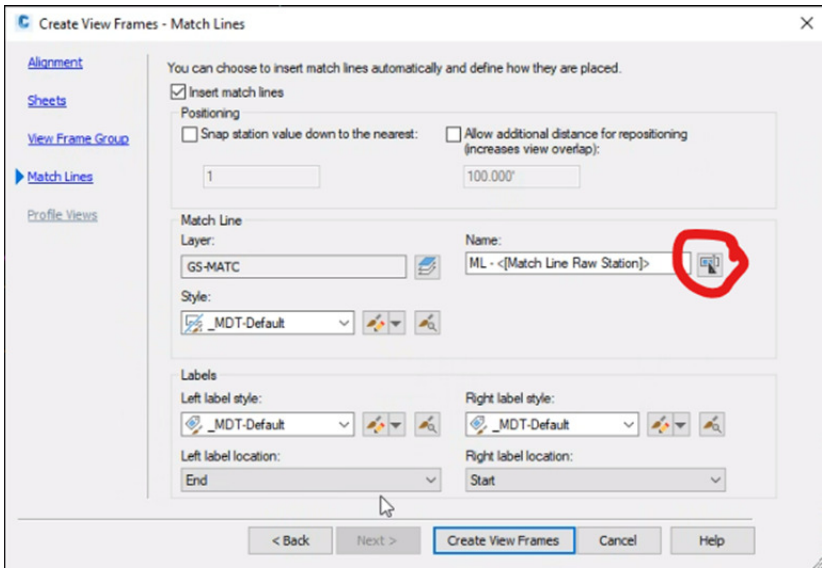


Within the View Frame Group, edit the name to be RIGHT OF WAY EXHIBIT. Under View Frame, select the Edit View frame name button to the right of the Name field. Delete the text below Name, under Property fields select View Frame Group Name and click on the Insert button to the right. Go back to Property fields, select View Frame Start Raw Station and click the Insert button. Select OK. Set the Style to _MDT-Default and the Label style to _MDT-Default. Click Next.

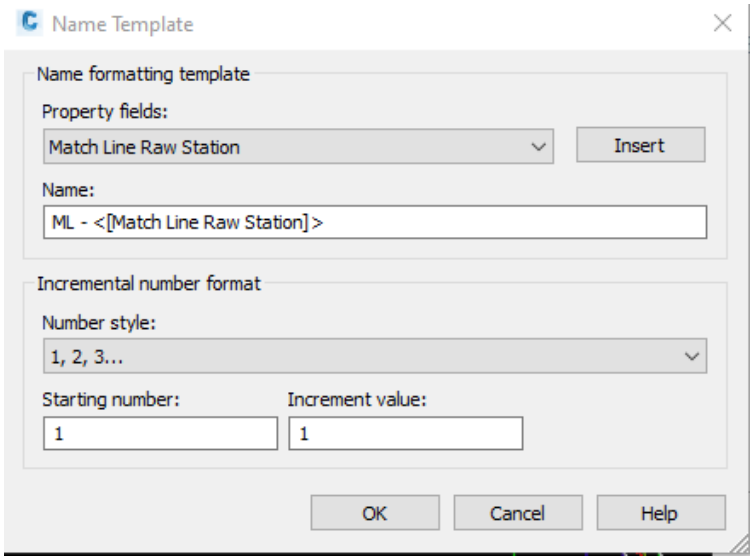




Under Match Lines, select the Edit View Frame match line name button (circled in red). Note: If match lines were not used in plan sheet setup, uncheck the box next to Insert match lines.



Set Property Fields to Match Line Raw Station. In the box under Name type 'ML - " and click on the Insert button next to Property Fields. Starting number and Increment value should be set to 1. Select OK.



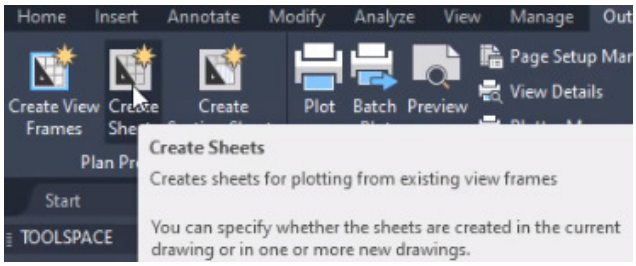
The plan view area should match the r/w design plans. Place a check in the box next to 'Allow additional distance for repositioning'. ***If*** the r/w plans use 2500' per sheet, place 500' in the box. The sheets will display 2500' vs. 3000' on a 200 scale project. Set the Style, Labels left & right to _MDT-Default .

Click on Create View Frames. The view frames will appear in the model space of the ROMAP file.

In the Layer Properties Manager, the view frame layer, GS-VFRM, should be set to no plot so it does not appear in the exhibits.

Creating Master Exhibit Sheets

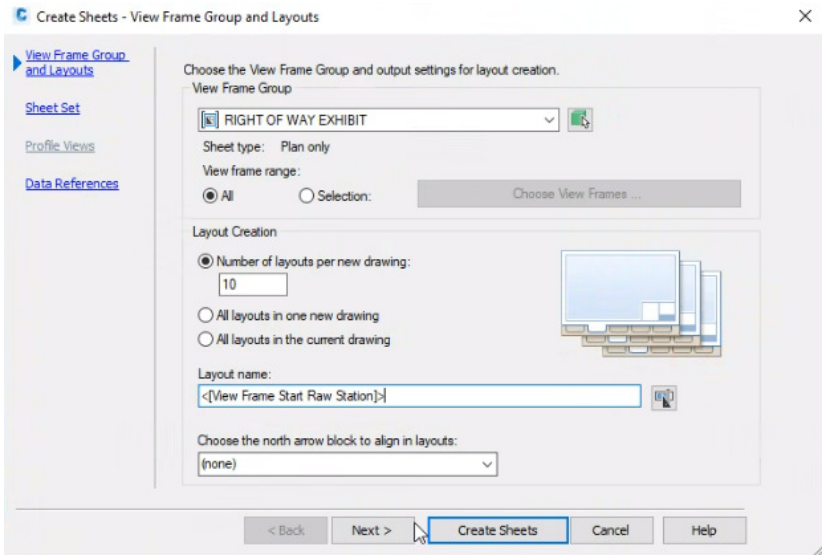
Within the ROMAP file, under the Output tab, Plan Production ribbon, select Create Sheets.



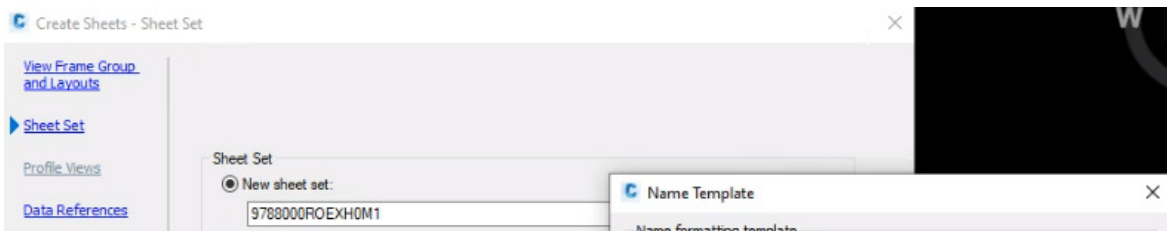
Under View Frame Group and Layouts set the View Frame Group to RIGHT OF WAY EXHIBIT (the view frames that were just created), View Frame range is All. *There will also be view frame groups for the r/w plans, make sure to select the exhibit view frame groups.* Layout Creation is set to Number of layouts per new drawing with 10 (maximum) entered in the box. This is somewhat flexible. Eleven layouts can fit in one drawing or this could be split into 6 layouts in one file and 5 layouts in another file. Too many layouts in one file will slow the file down.

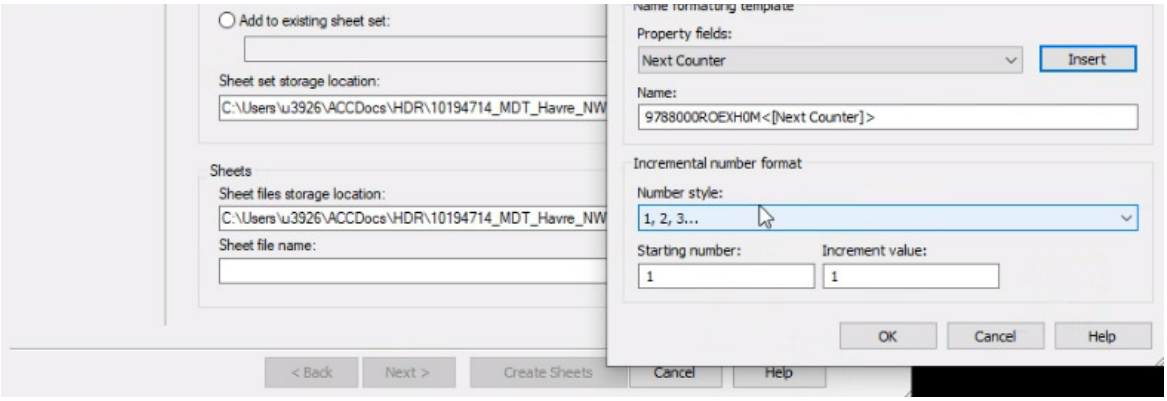
Under Layout name select the Edit Layout Name (arrow button), under Property fields select View Frame Start Raw Station Value, delete everything under Name, select Insert, and hit Okay.

Set the north arrow to none. It is easiest to place the north arrow in the ROMAP file in model space. For instructions, see the notes under Placing Blocks. Select Next.



Under Sheet Set select New sheet set, change the name to XXXXXXXROEXH0M1. Under Sheets, Sheet File Name, select the Edit button, set the Property Fields to Next Counter, delete everything under Name and set the name to XXXXXXXROEXH0M, click on Insert next to Property Fields, see the picture below. Select OK. Select Next.





Under Data Reference verify that the RWBL alignment is checked. Leave a check in the box next to Superelevation Views and Profiles. Do not check *copy pipe network labels to destination.* Select Create Sheets. Close the Event Viewer if the box pops up. The exhibit sheet file(s) will be saved on BIM 360 in the RO folder under the project. Rename layout tabs as necessary to follow standard naming conventions.

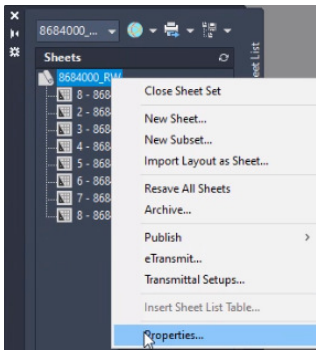
Open the exhibit file (XXXXXXXROEXH0M1.dwg) that was just created. Attach the ROARE, SUCAD and DIMAP reference files. There may be other files used in plans development that need to be attached. Make sure files are referenced on the correct layer. Select the ROARE file, right click, select Display Order and Send to Back. Clean up views to show only what should be displayed in the exhibit files before parcel exhibit files are created.

IMPORTANT - Check the Xref Manager to verify that all the reference file types are set to Overlay not as Attachment. Reference files set to Attachment can cause problems.

Layer colors that do not end in a 5 (15, 25, 35, etc.) will need to be overridden to plot light gray, color 252. Colors 250-255 will plot true to the color as displayed.

Filling in Project Information -

Right click on the sheet set and select properties. Fill in the Sheet Set Custom Properties information. If needed, edit the project information that was entered previously.



Leave Project phase and Project milestone blank.

After editing the information, right click on the sheet set name and select Resave All Sheets. The Fields will update throughout all sheets in the sheet set. Text with a gray background is a field and is the same on each sheet.

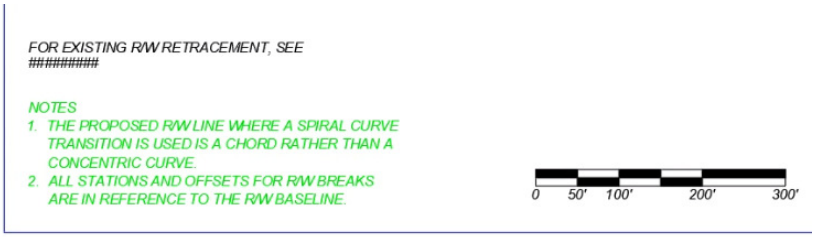
Edit Individual Attributes on each sheet if needed.

Set the annotation scale in the exhibit sheet model space to show linestyles correctly.

Scale Block

Exhibit sheets do not contain a scale bar. Place block SCALE in the bottom left corner of the exhibit sheet.

In paper space (layout tab) Select the sheet border, right click, and select block editor. Select and place the SCALE block. Select Close Block Editor on the ribbon and save changes. This will modify all the borders in the ROEXH file.



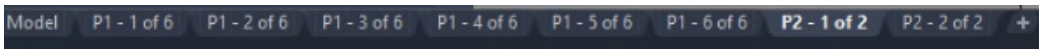
Parcel Exhibit Files

Depending on the project, a separate dwg file may be created for each parcel or one dwg file may be created for multiple parcels.

Separate dwg Files For Each Parcel-

To create parcel exhibit files, open the master exhibit file and save as P001_XXXXXXXROEXH0M1.dwg. (Additional parcel exhibit files will be P002, P003...). The parcel exhibit files will be saved on BIM 360 under the project folder.

The tabs at the bottom will need to be renamed with the parcel number and number of sheets. For example - P1 - 1 of 5. Create a tab for each exhibit sheet the parcel is shown on. Fill in the parcel and sheet numbers, and turn on shading.

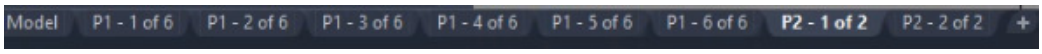


All of the exhibit border information should be filled out. Remove the sheet numbers from the top right of the page.

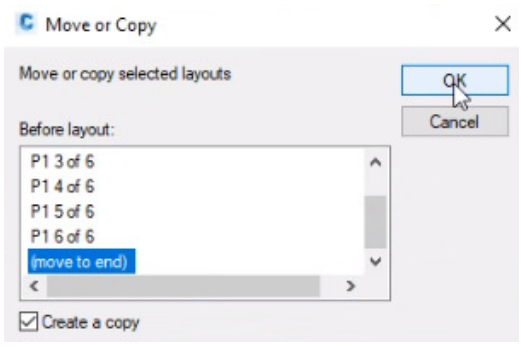
Multiple Parcels in One dwg File -

To create parcel exhibit files, open the master exhibit file and save as XXXXXXXROEXH001.dwg. (Additional files will be 002, 003...). The parcel exhibit files will be saved on BIM 360 under the project folder.

Parcel exhibit files can have up to 10 tabs. If too many tabs are added to a file it will slow it down and cause errors. The tabs at the bottom will need to be renamed with the parcel number and number of sheets. For example - P1 - 1 of 5. Create a tab for each exhibit sheet the parcel is shown on. Fill in the parcel and sheet numbers, and turn on shading.



Add the next parcel to the file by copying the tab it is shown on. Right click on the tab, select "Move or Copy", and click on Move to End. Make sure a check is in the box next to Create a Copy. It will copy all the tabs that are selected. Rename the tab with the parcel number and number of sheets. For example - P2 - 1 of 2.



Fill in the parcel and sheet numbers, and turn on shading for each parcel.

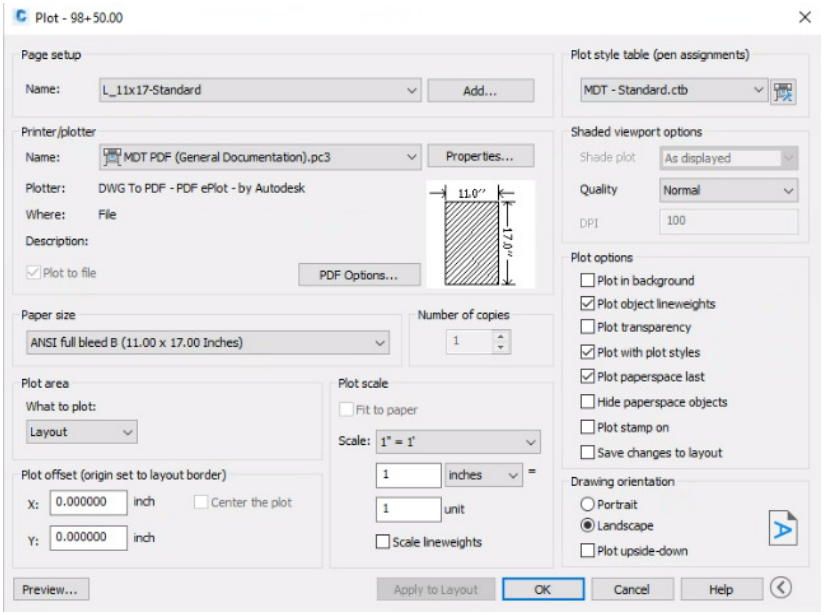
All of the exhibit border information should be filled out. Remove the sheet numbers from the top right of the page.

Add comments on BIM360 noting which exhibits are within the file.

Printing Exhibits

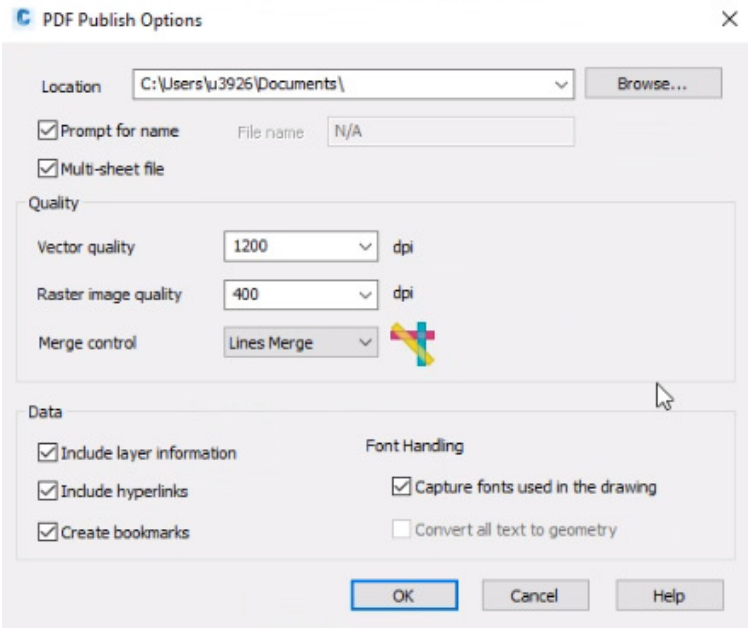
To Print a Single Sheet or few sheets

Right click on the Parcel Layout Tab, select Plot. The settings should be all set as shown below. Select Okay. Give the file a name that includes the parcel number and UPN (for example P001_XXXXXXX) and save the pdf to the project folder in Draft Deeds.

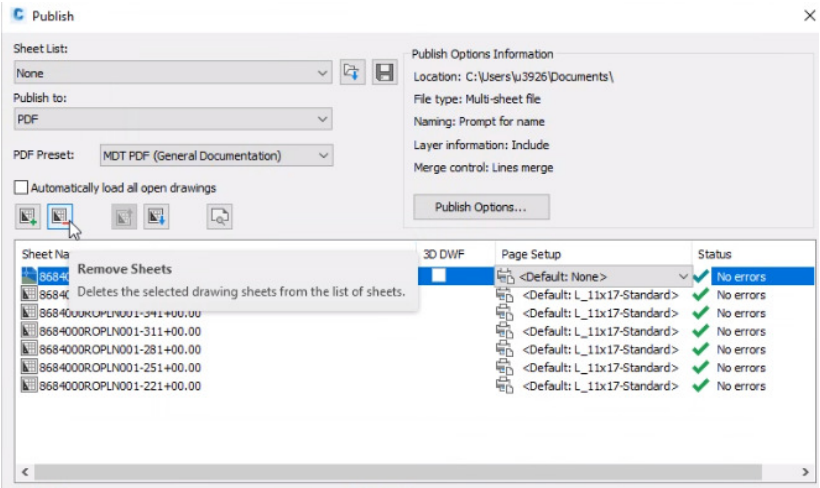


To Print Multiple Sheets

To publish an exhibit pdf with multiple pages, on the Output Tab, Plot Ribbon, select Batch Plot. In the Publish box set Publish to PDF, click on Publish Options and make sure the box next to Multi-sheet file is checked and change Merge Control to Lines Merge. Select OK.



Uncheck the box next to "Automatically load all open drawings". Remove the sheets that should not be included in the parcel. Under Sheet Name, select the model and each exhibit sheet that needs to be removed. Click on Remove Sheets. Hold down the control key to select multiple sheets or delete one sheet at a time.



Select Publish, give the file a name that includes the parcel number and UPN (for example P001_XXXXXXX) and save the pdf to the project folder in Draft Deeds.