

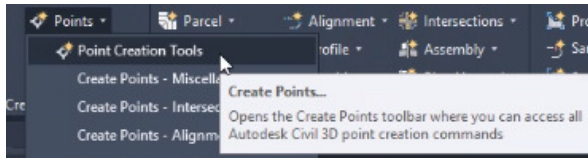
810 - R/W Break Coordinates

Wednesday, June 15, 2022 2:50 PM

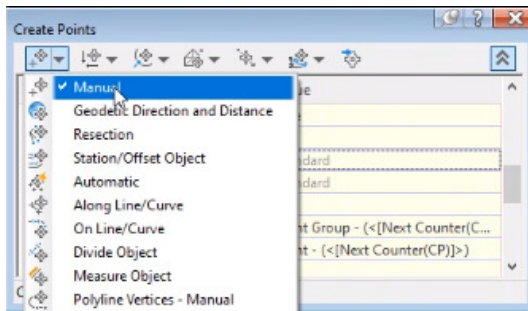
The current work flow for the survey section requires the creation of a right-of-way break coordinates file.

Manual Point Creation

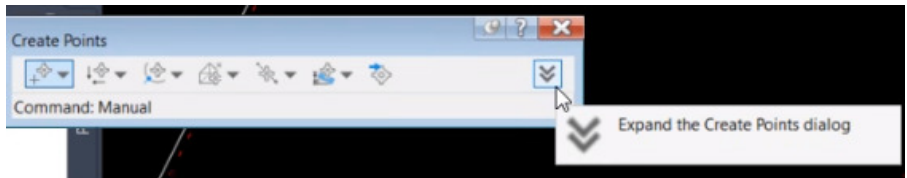
Right-of-way break point nodes are placed in the ROMAP file. From the Home tab select Points and Point Creation Tools.



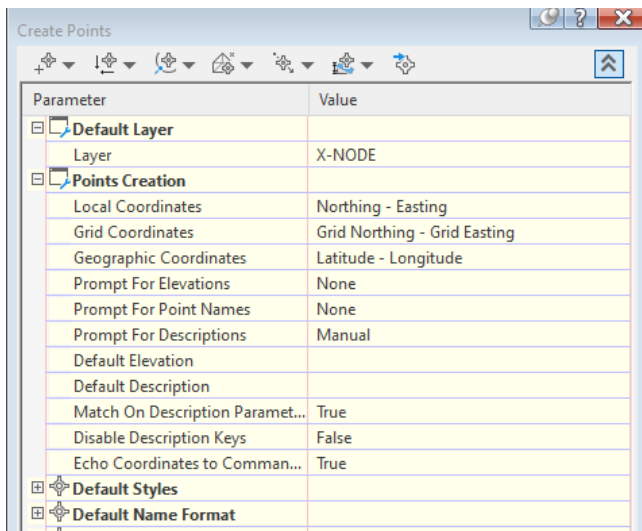
Select Manual.

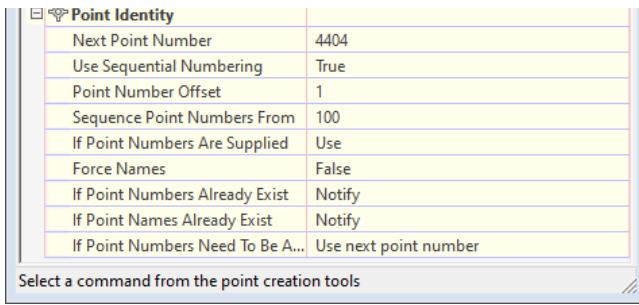


Expand the Create Points dialog, shown below.

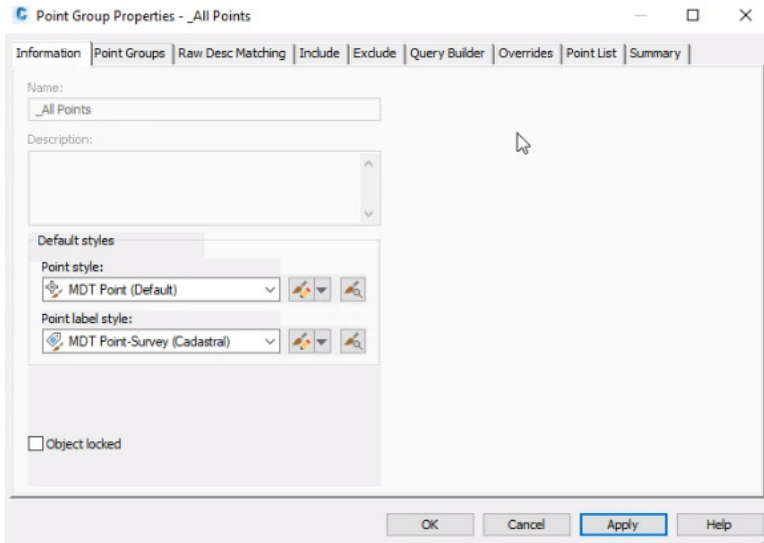


Within the Create Points dialogue, set the layer to X-NODE, the Local Coordinates to Northing – Easting, Prompt For Elevations to none, Prompt For Point Names to None, Prompt For Description to Manual, Default Description to RW, CP, or EASE (or leave blank- this will be entered when creating points), set Next Point Number to 4000 (starting point).





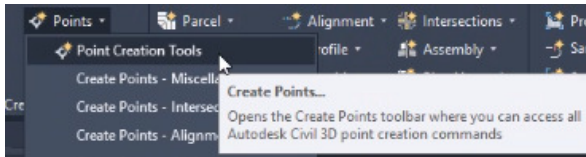
Select the Create Points and click on the r/w break points. You may have to select Manual again to restart the command. If the point node or point number do not display properly select a point, right click and select Point Group Properties. On the Information tab set the Point Style to MDT Point and the Point label style to MDT Point-Survey (Cadastral). Select OK.



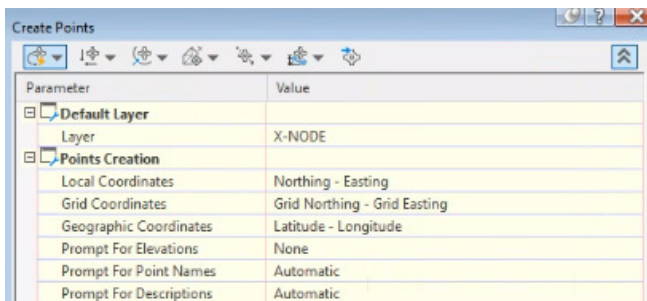
Automatic Point Creation

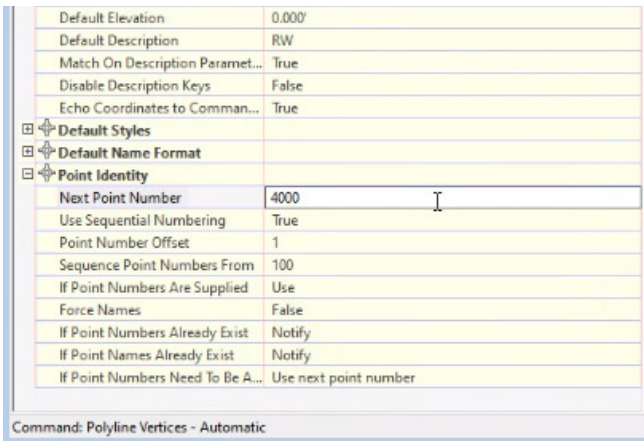
Right-of-way break point nodes are placed in the ROMAP file. Points can be created automatically for r/w lines that are a polyline (similar to a MicroStation line string). To create a polyline from the proposed r/w line key in J (for Join), select the connected proposed r/w lines, and hit the space bar (Enter).

From the Home tab select Points and Point Creation Tools.

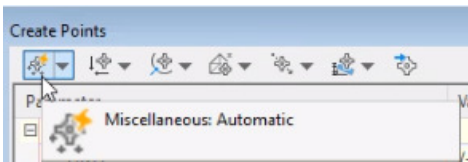


Select Polyline Vertices – Automatic. Set the layer to X-NODE, the Local Coordinates to Northing – Easting, Prompt For Elevations to none, Prompt For Point Names to None, Prompt For Description to Automatic, set Default Description to RW, CP, or EASE, set Next Point Number to 4000 (starting point).





Click on the Create Point icon on the top left of the Create Points box.

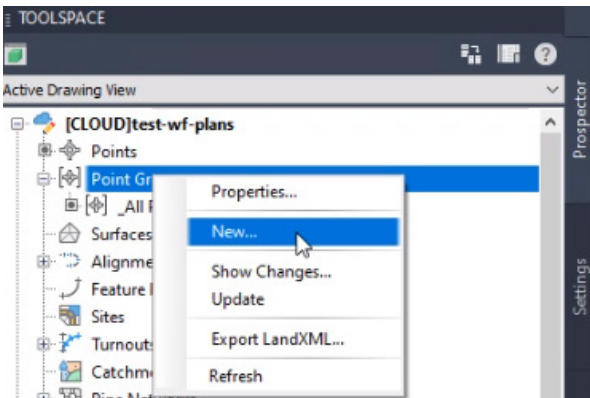


Select the proposed right-of-way (easement or construction permit) polyline and hit Enter.

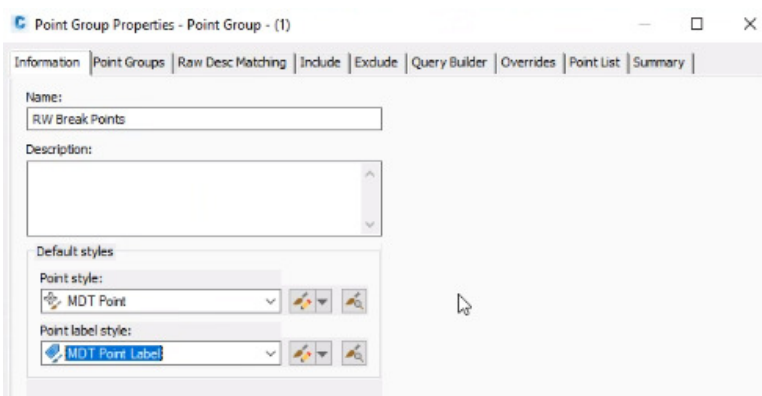
If the point node or point number do not display properly select a point, right click and select Point Group Properties. On the Information tab set the Point Style to MDT Point and the Point label style to MDT Point-Survey (Cadastral). Select OK.

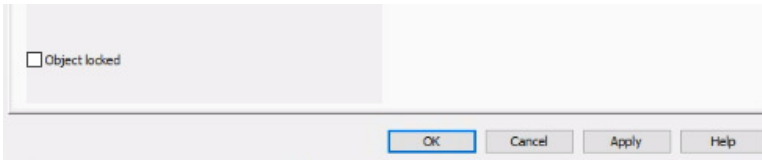
Creating Point Groups

Create a point group to organize all of the RW, CP, and EASE break points in the file. Placing all the points in a group makes it easy to change the point styles. Within Toolspace go to the Prospector Tab, right click on Point Groups and select New.

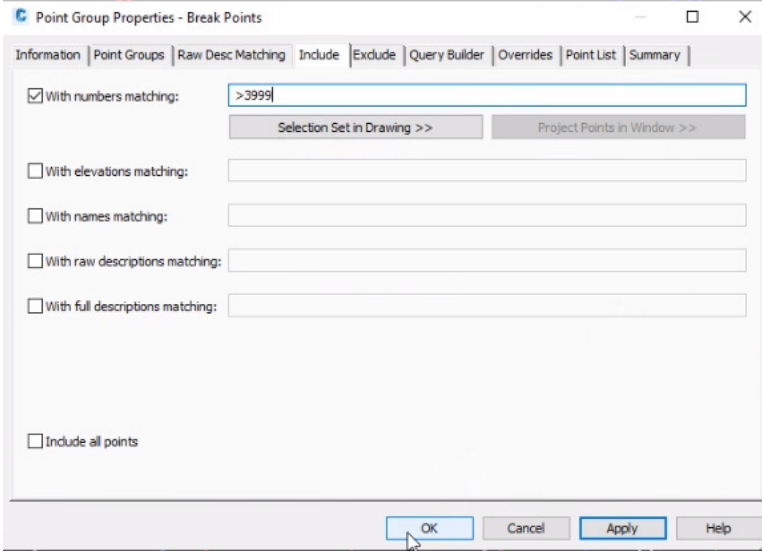


Name the group 'RW Break Points', change the Point style to MDT Point, and Change the Point label style to MDT Point-Survey (Cadastral).





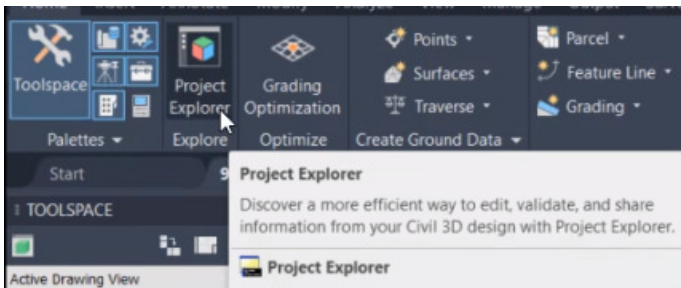
On the Include tab the points can be selected by placing a check in the box next to Include all points or by placing a check in the box next to With numbers matching and adding >3999 (one less than starting point number). Select OK.



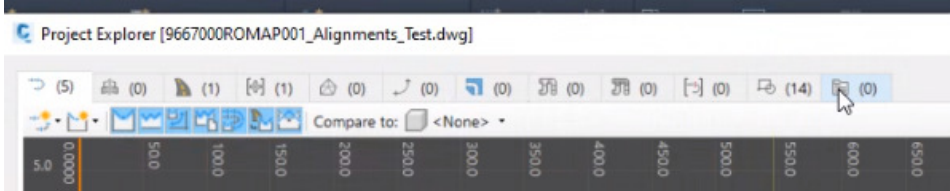
If point numbers do not display, right click on the point group and select Update. The point styles and point labels can be edited by right clicking on the point group and selecting Properties.

R/W Break Coordinate file

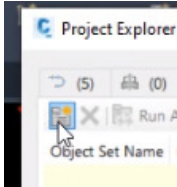
Once the r/w break points have been added to the file. Type Project Explorer in the command line or select from the Home Tab, shown below.



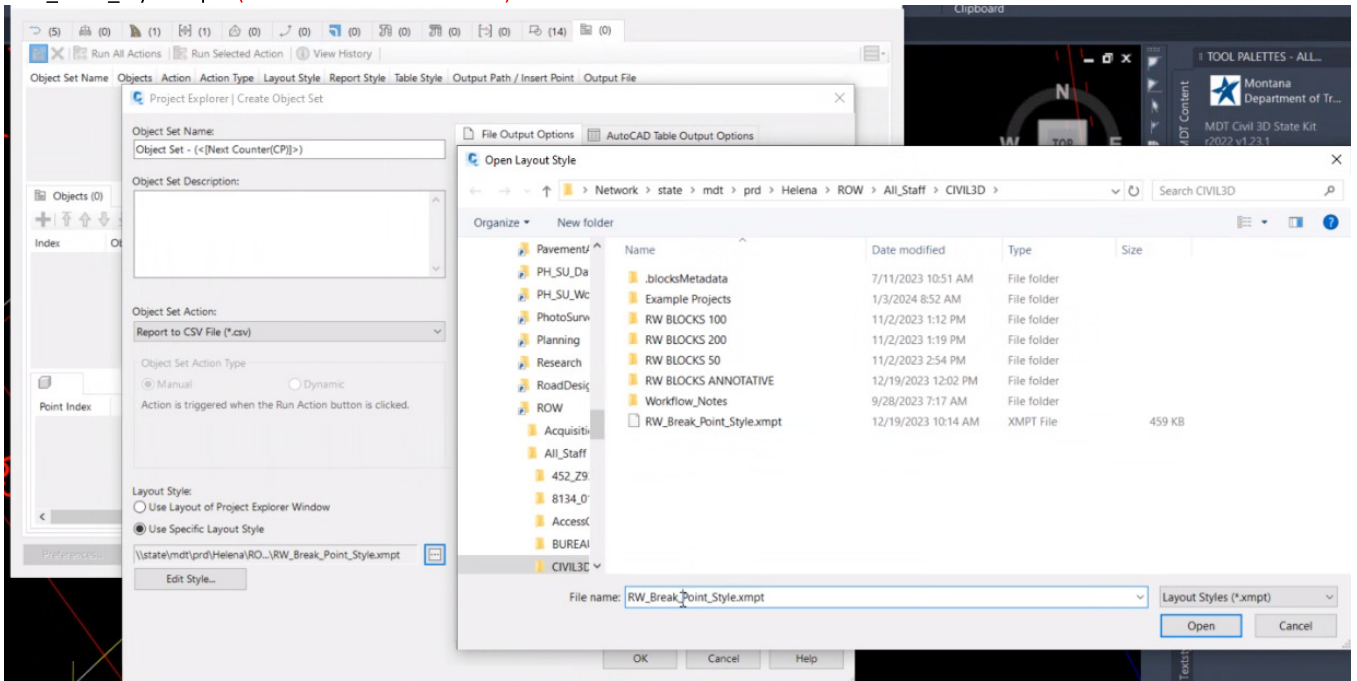
Go to the Object Sets tab. It is the far-right tab at the top.



Click the New Object Set icon. It is the folder with the star.

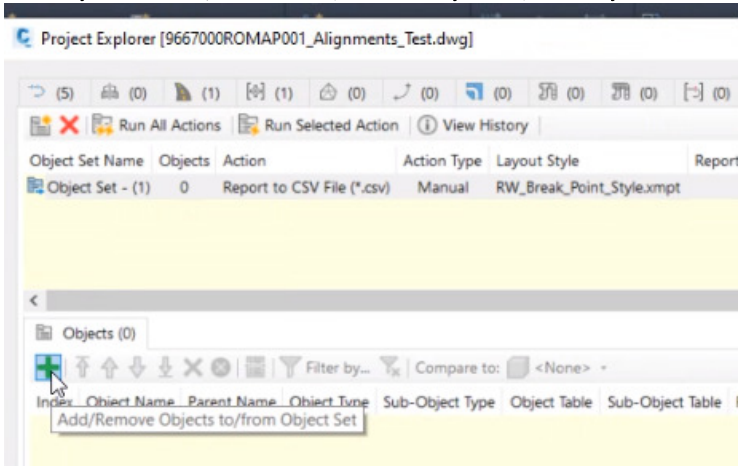


In the middle left, under Object Set Actions, select Report to CSV File (.csv). Under Layout Style in the bottom left, check Use Specific Layout Style. Browse to the Civil3D folder and select the RW_Break_Point_Style.xmpt. (Add this file to the State Kit)

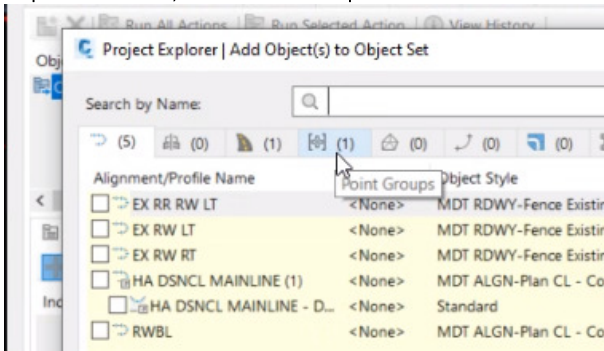


On the File Output Options tab, name the XXXXXXROBRK001. Set Output Path to your dgn folder. Select OK.

Within the Objects Sets tab, Click on Add/Remove Objects to/from Object Set.



At the top of the screen, select Point Groups.



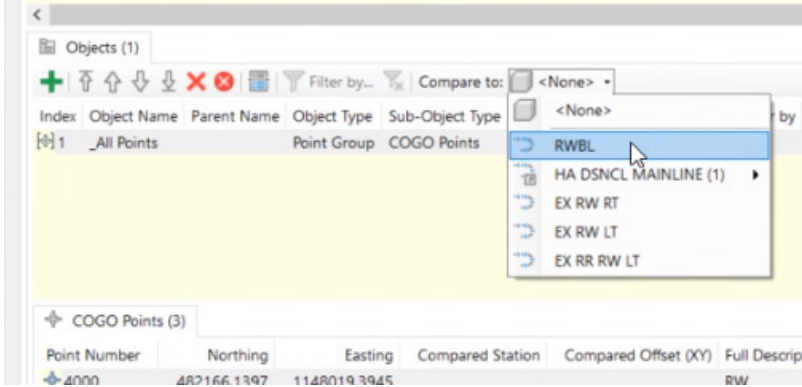
You can make a point group if desired but this is not necessary because we generally want all points. Select All Points if a point group wasn't created. Select OK.

The points will be listed under COGO Points.

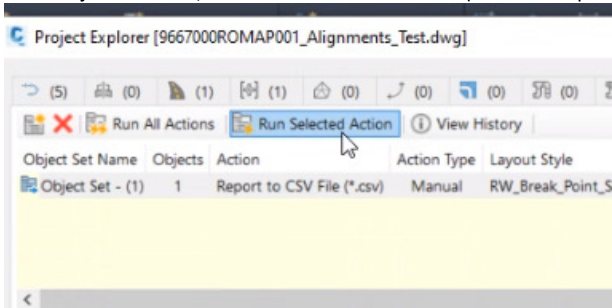


Point Number	Northing	Easting	Compared Station	Compared Offset (XY)	Full Description
4000	482163.7058	1148014.7160			rw
4001	482505.4064	1148525.1257			rw
4002	482649.8772	1148683.8282			rw

Next to Compare to: select the RWBL alignment.



Within the Object Sets tab, select Run Selected Action (near the top middle)



The file will appear in the dgn. Open the file and edit. Delete the rows above the Point Number and save the file. Save the point break file on PCMS.