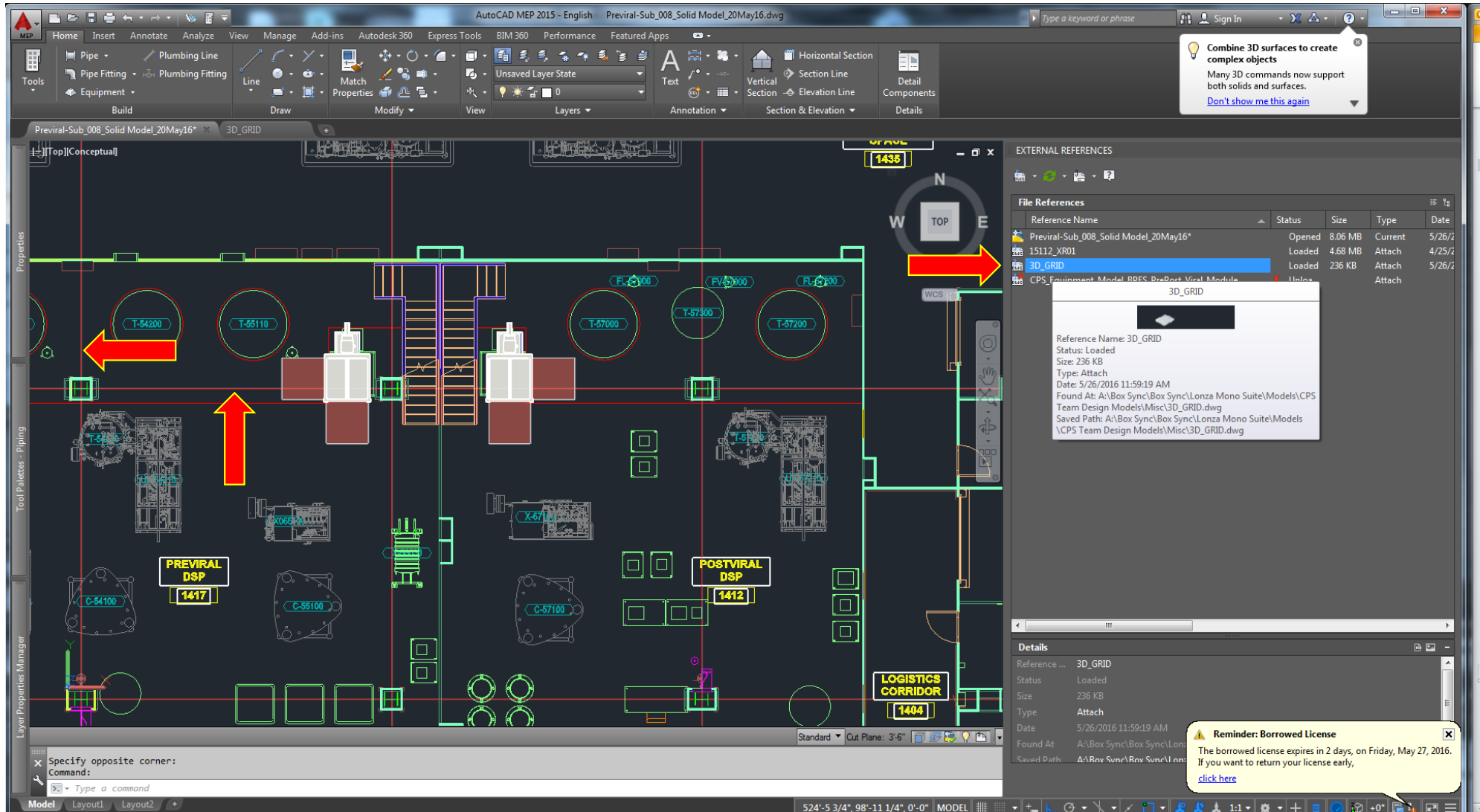


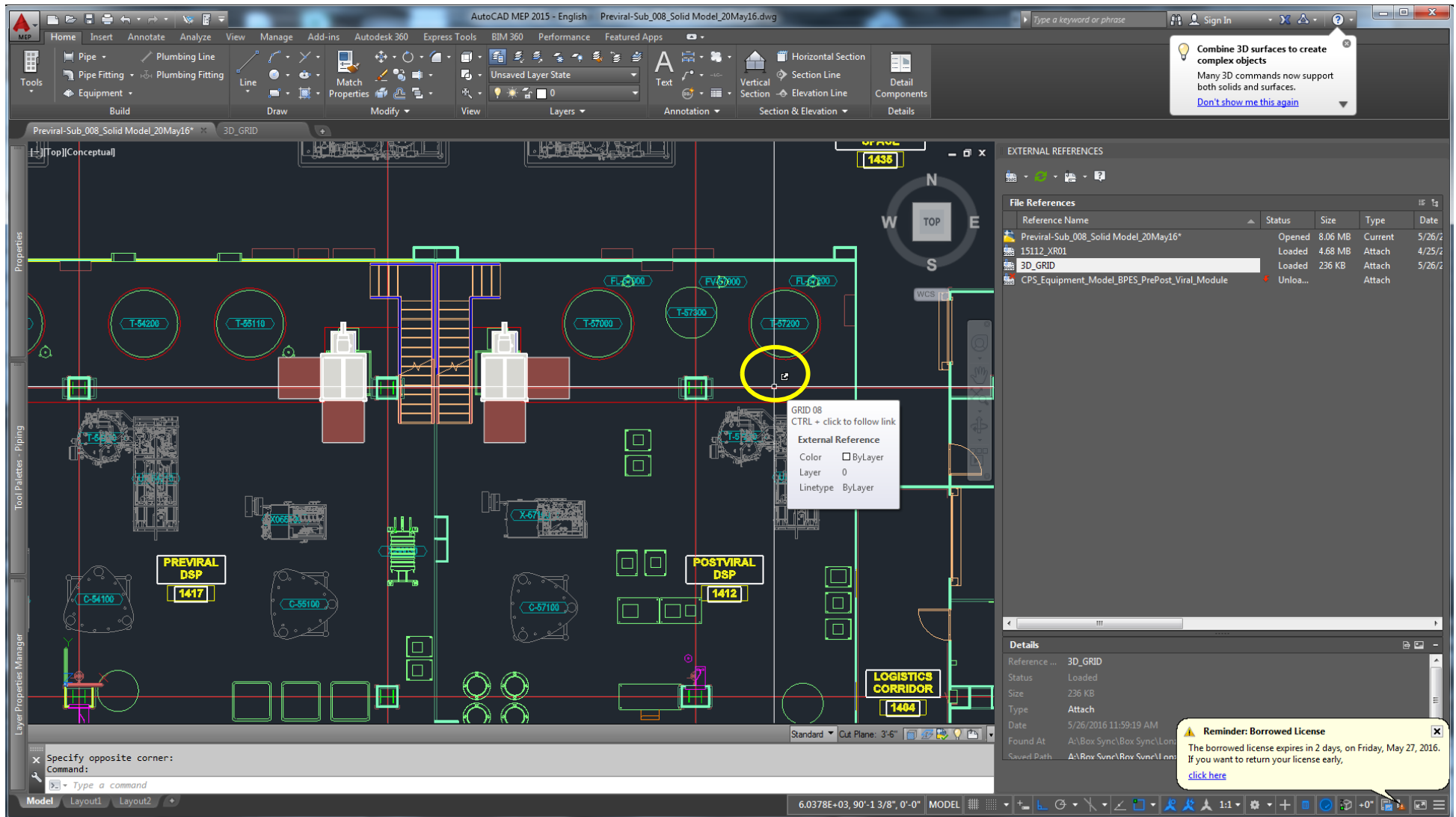
GRID LINE UPDATES

In observing workflows and model navigation issues I have developed a (somewhat smart) 3d grid model. This will allow you to identify your grid location in both autocad and navis without having to zoom out. It will also allow you to take measurements in Navis from a grid to an object.

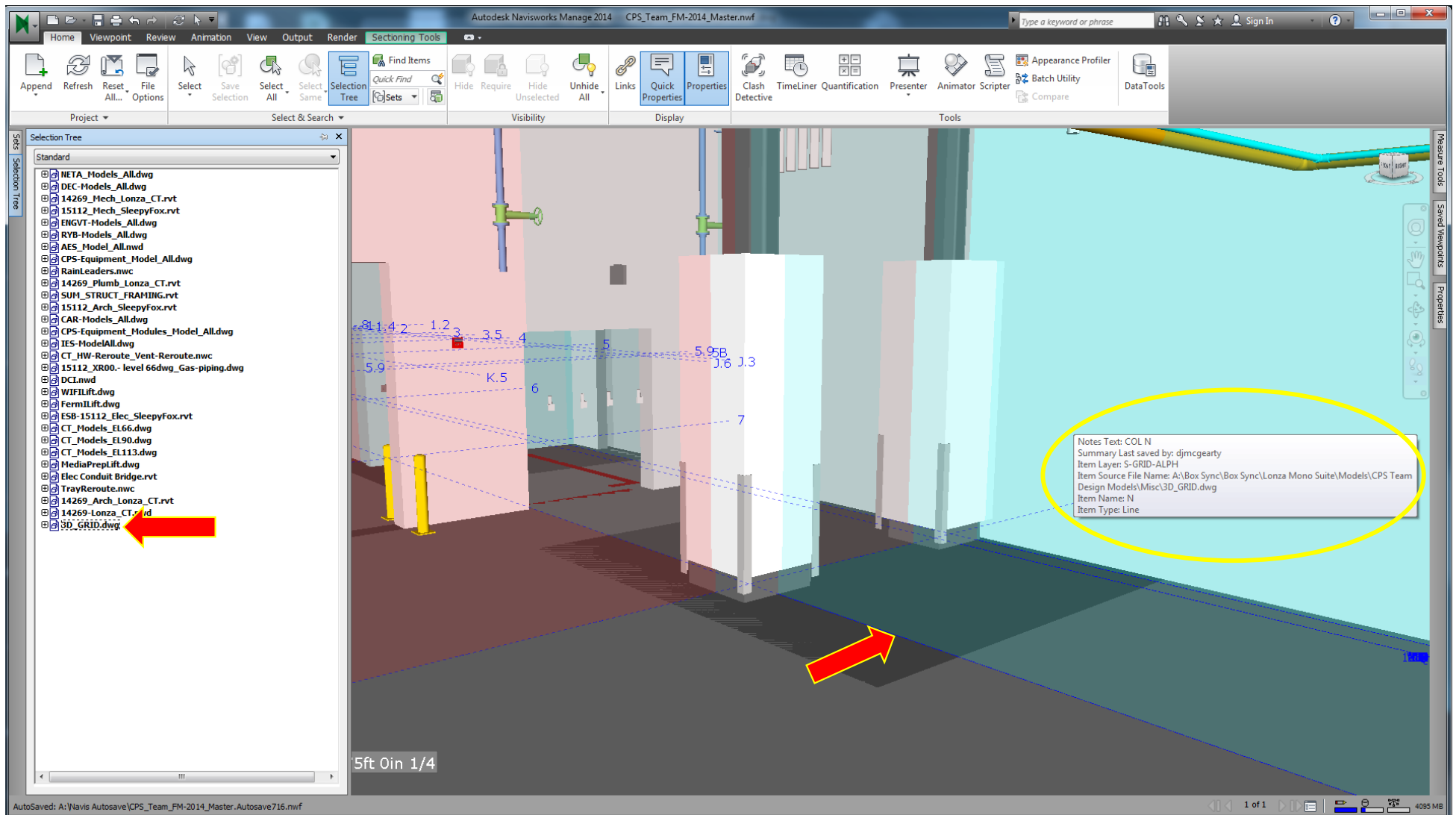
Below shows the Autocad XREF **3D_GRID.dwg** its located on Box in the **MISC** Folder. The model consists of lines with a thickness applied and some extended properties added to the objects to show the associated grid reference.



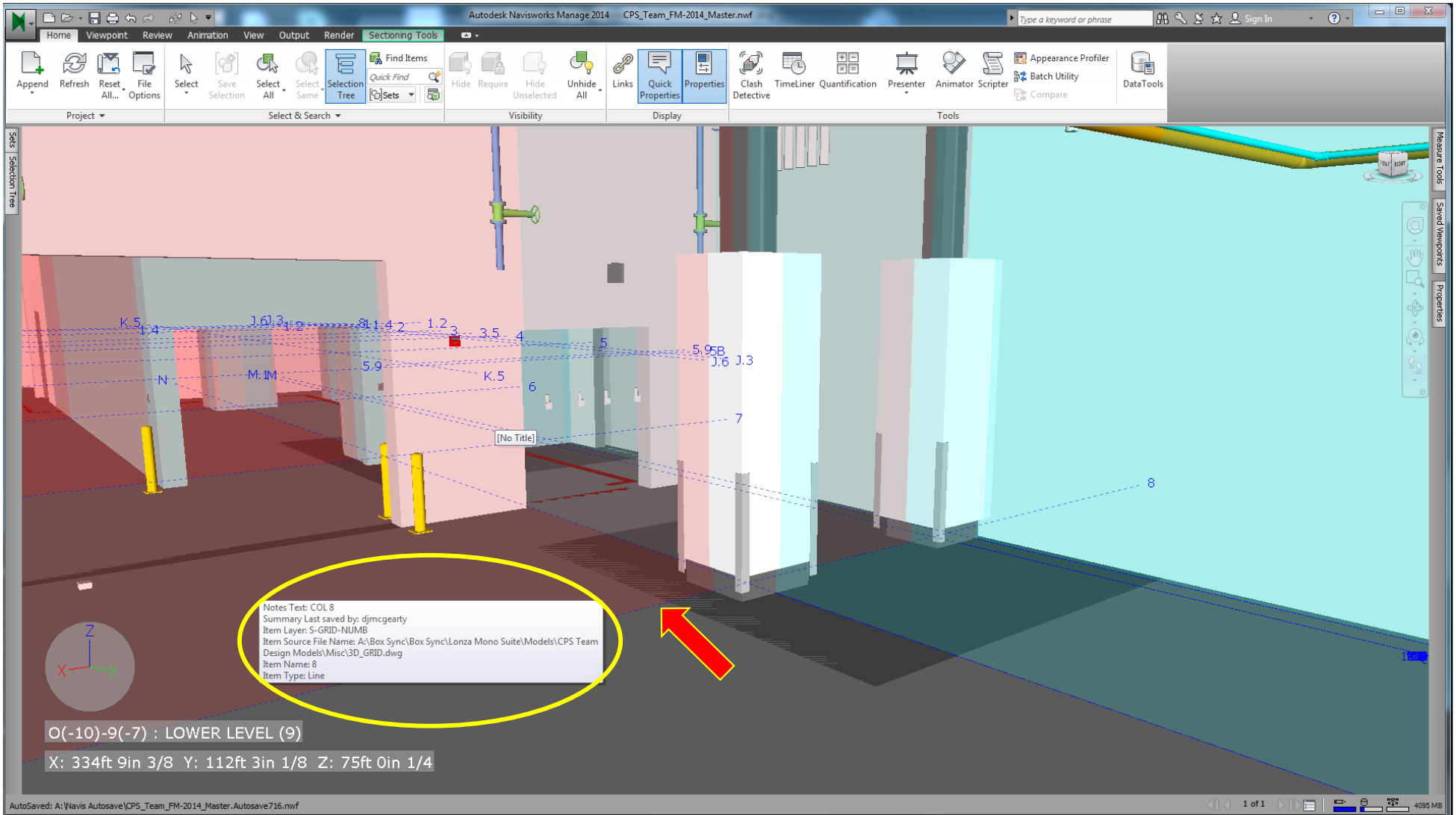
Below shows the Autocad property display when the user hovers over the grid line. The same technique can be applied to standard lines with no thickness but I wanted this to be a solution for both the Autocad plan view drawings and Navis 3d model.



Below shows the Navisworks appended **3D_GRID.dwg** its located on Box in the **MISC** Folder. The model consists of lines with a thickness applied and some extended properties added to the objects to show the associated grid reference. You will need your quickproperties enabled and configured to read the data. I have posted mine in Box\Lonza Mono Suite\Models\Coordination Models\Support files\quickproperties.xml



Below shows the same info from the previous slide just focusing on a different grid line



Below shows the dimensioning of an object from the associated grid model element. By constraining the axis using **Measure** then **Lock** you can get very accurate setout dimensions. I find the enabling the **HUD** and Checking the **XYZ Axes** helps you quickly note which axis to lock.

