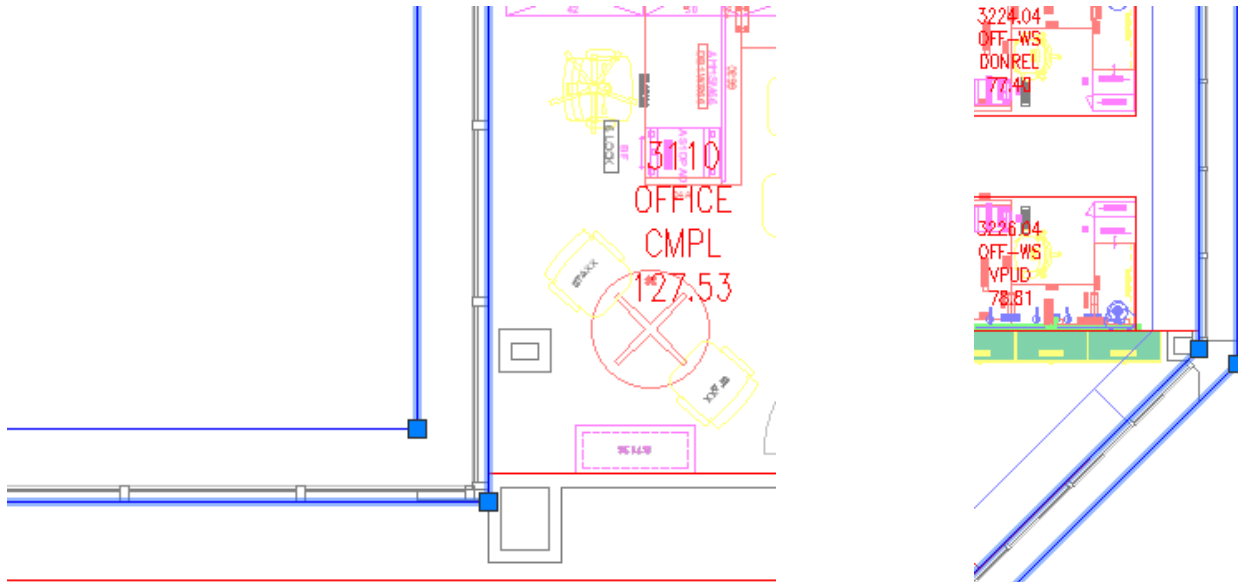


Montclair State University Pline Process

Exterior Wall (GROS)

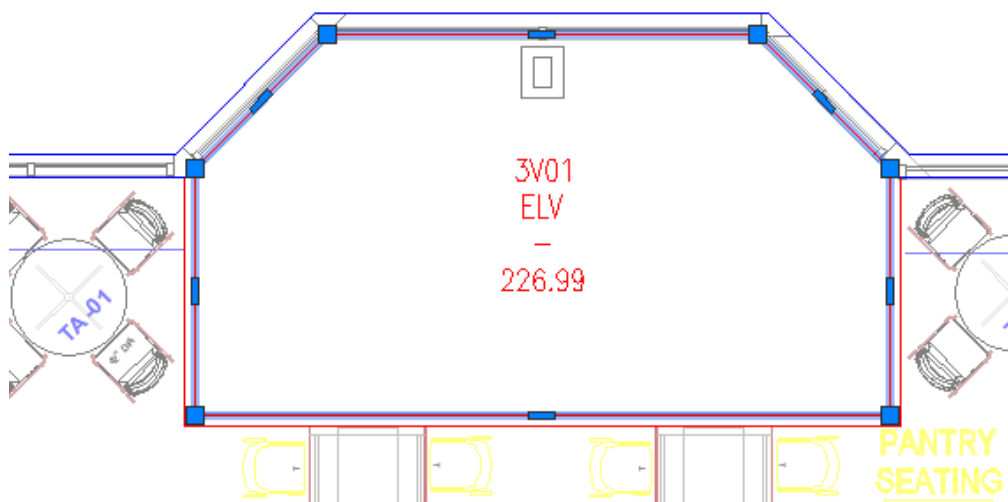
Plines are drawn on the **GROS** layer to represent the **Exterior Face** of the exterior wall and the predominant **Interior Face** of the exterior wall.



When these are linked to the Archibus database, the plines are changed to the **GROSS** layer.

Interior Spaces (RM)

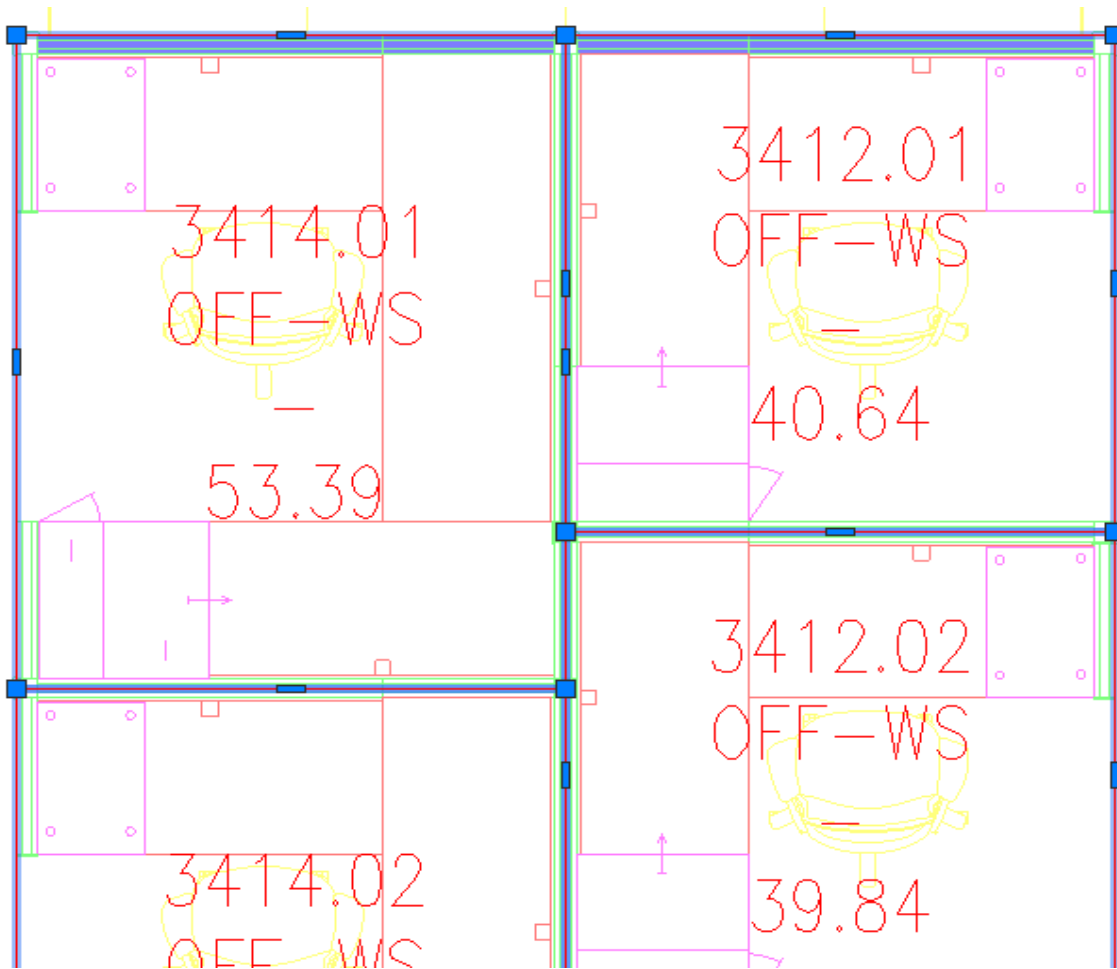
Plines are drawn on the **RM** layer to represent all spaces within the interior **GROSS** pline. When these are linked to the Archibus database, the plines are changed to the **RM** layer. The interior **GROSS** pline will be the outermost boundary for the spaces that are along the exterior of the floorplan.



The above illustrates that the **RM** pline abuts the interior **GROSS** pline and is drawn to the interior face of all interior walls (no wall area is captured with the **RM** plines).

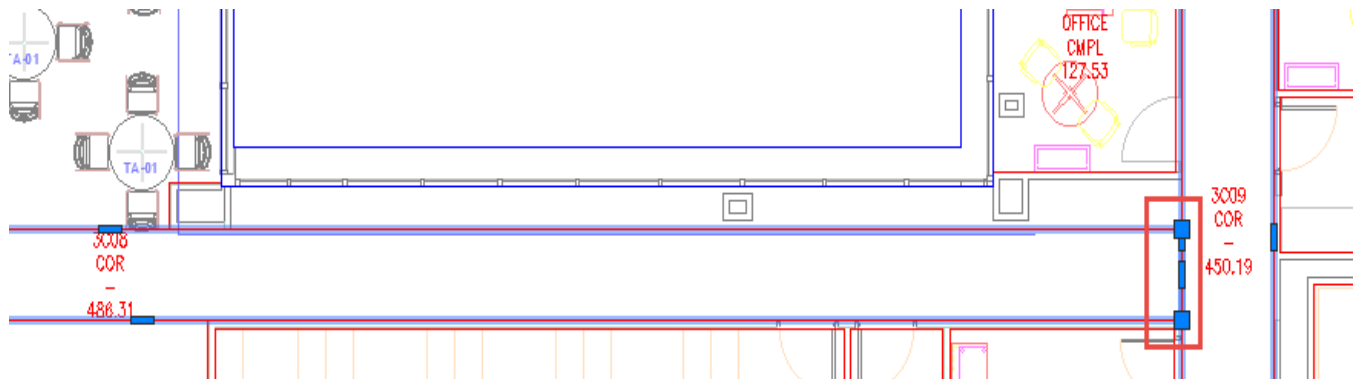
Cubicles / Workstations (RM)

Plines representing cubicles / workstations will include the outside panels and will equally share the interior panel (draw at the centerline of the panel):



Corridors (RM)

Plines representing corridors will be drawn to the inside face of all walls. Where corridors about each other, the pline boundaries will about each other:



Corridors around workstations cannot contain the area of the workstations, and are therefore drawn around the workstations:

General Drafting Requirements / Recommendations

- **Background Drawing**

- All objects are to be 2D for AutoCAD
- Make sure that the insbase is set to 0,0.
- Reduce the number of layers to something that is manageable in the Space Console. Recommendations include (these are TBD by Montclair State University):
 - A-FURN (all furniture)
 - A-EQUIP (all equipment)
 - A-PLUMB (all plumbing)
 - A-SHELL (all walls, doors, windows, etc. – basically everything except A-FURN, A-EQUIP & A-PLUMB)

- **Archibus Drawing**

- Set the XREF layers colors to a consistent color (white, gray, etc.)
- Set the XREF layers state to on/off/freeze/thaw so that only desired geometry is visible
- Set the XREF layers line weight to 'Default.'
- Set the system variable VISRETAIN to 1 to instruct AutoCAD to have all xref-dependant layers take on the property set in the Archibus drawing (outlined above)
- Make sure that the insbase is set to 0,0 to ensure that geometry does not appear to be shifted in the Space Console
- Plines should have Z coordinates of 0 for all vertices.
- Plines should not overlap.
- Osnap should be used to ensure that plines are drafted to correct geometry locations.
- All Archibus room numbers are 4 digits with the 1st digit being the floor number

Overall Goal

The sum of the areas of the RM\$ plines should equal the area of the internal GROSS\$ plines minus the area not captured with RM\$ plines (void areas and interior walls).