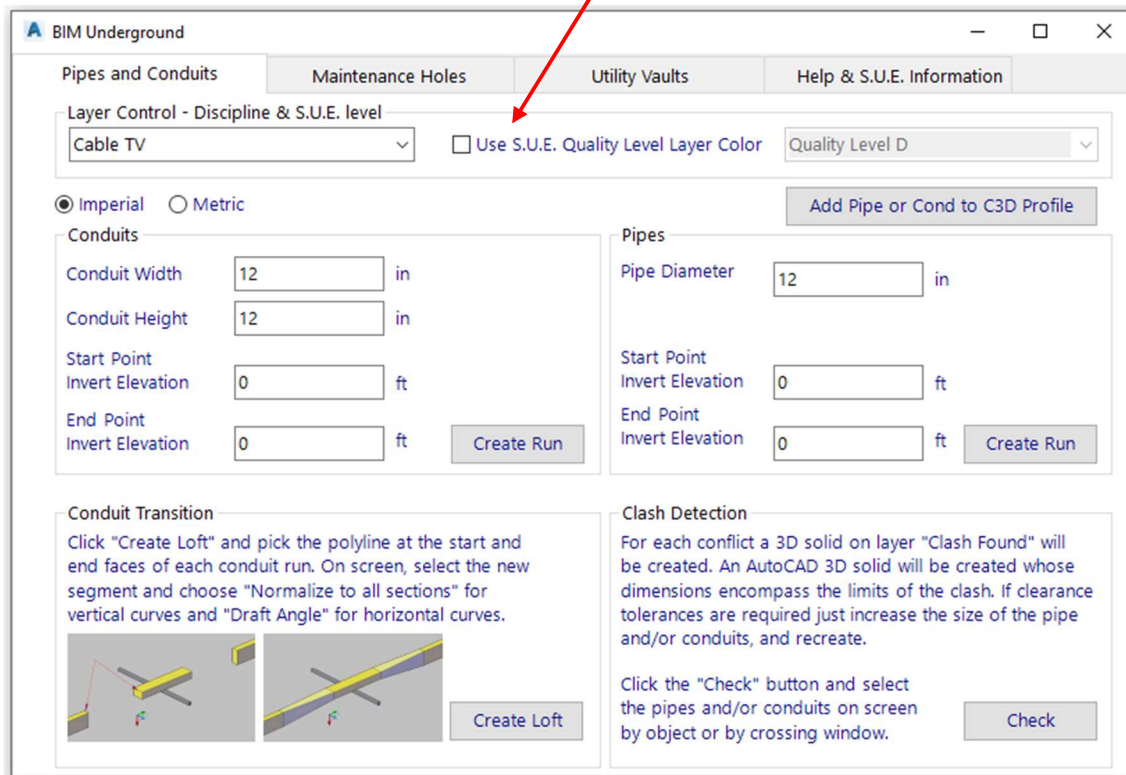


Quick start Pipes and Conduits:

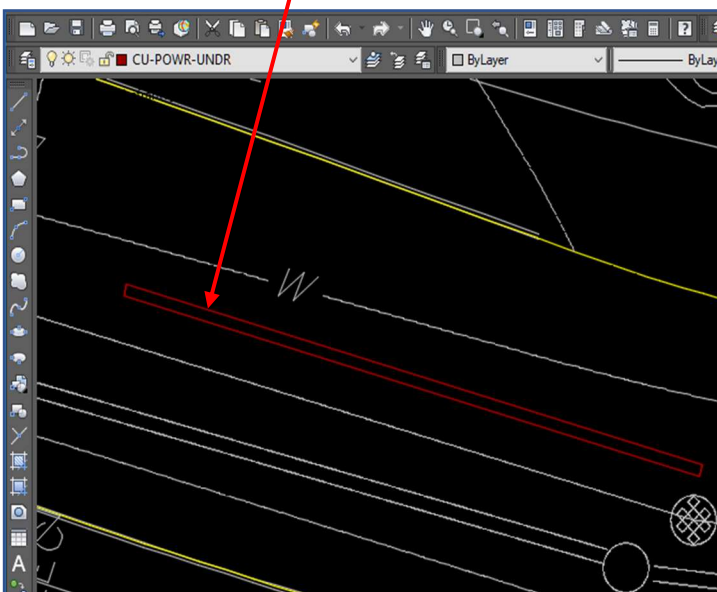
Each discipline will create the 3d object on a National Cad Standards layer.

<https://www.nationalcadstandard.org/ncs6/>

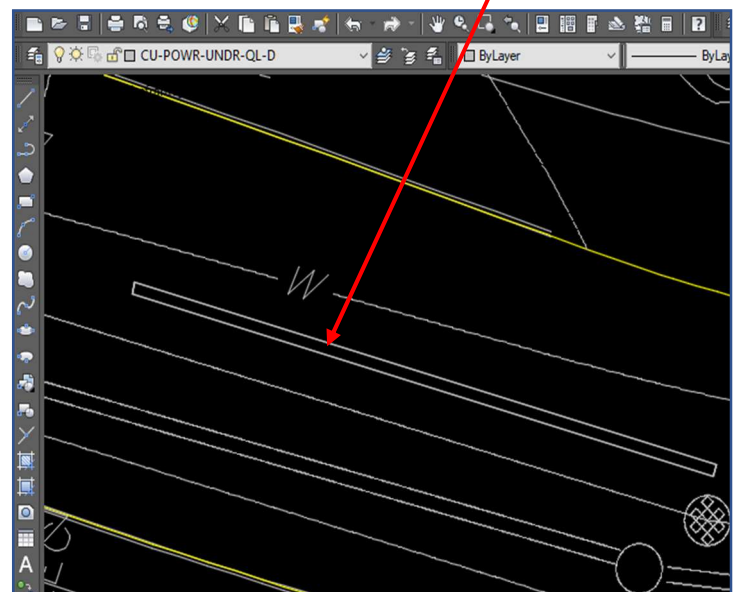
Checking "Use S.U.E..." will add a suffix "-QL-A through -QL-D" and assign an accompanying layer color to help quickly identify areas checked for accuracy.



Conduit drawn on NCS layer



Conduit drawn on NCS layer with S.U.E. Quality Level D checked and layer name suffix added.



Using the Create Conduit command:

Layer Control - Discipline & S.U.E. level
Cable TV Use S.U.E. Quality

Imperial Metric

Conduits

Conduit Width in

Conduit Height in

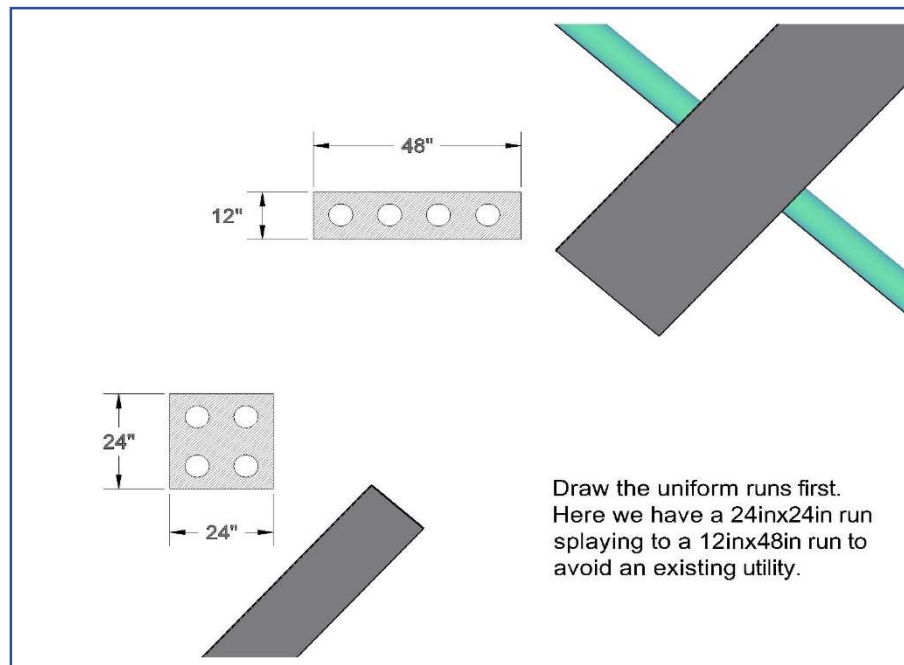
Start Point
Invert Elevation ft

End Point
Invert Elevation ft

Enter the conduit height and width and the start and end invert elevations.

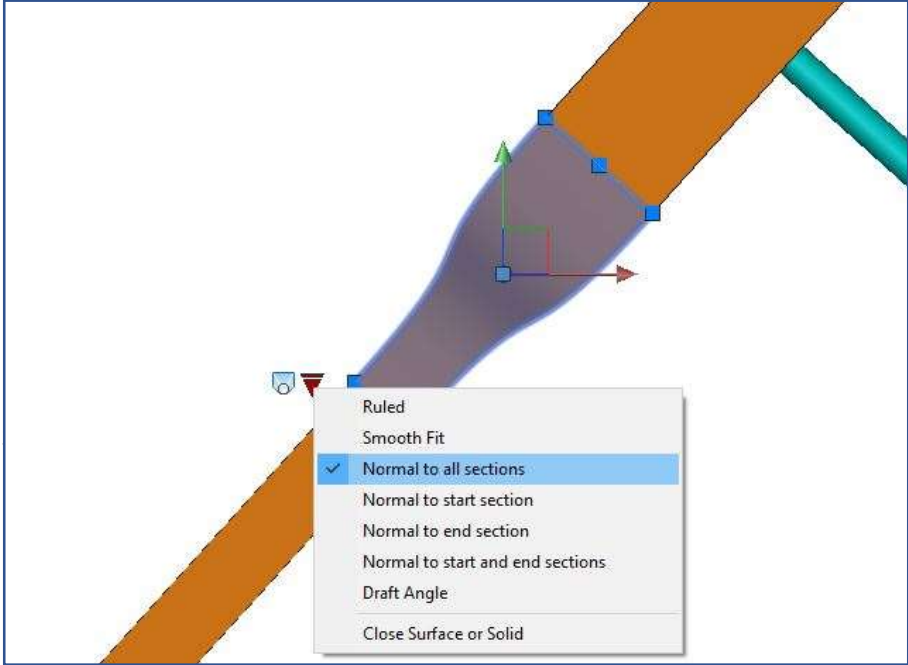
Click "Create Run" to place the conduit run.

Using the Loft command:

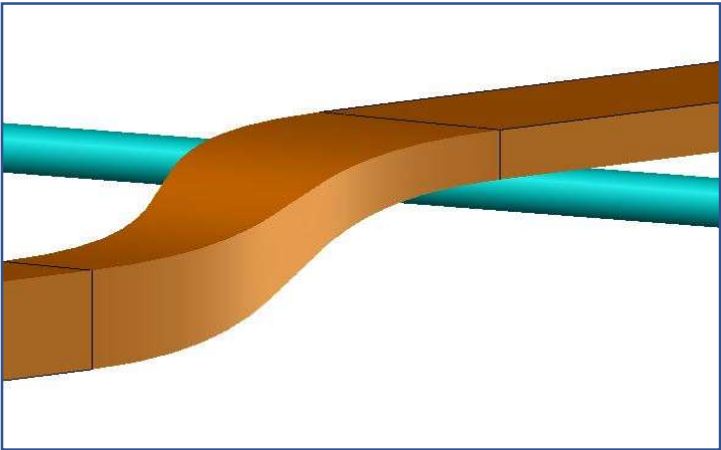


Connect conduit runs using the “Create Loft” command from the “Conduit Transition” panel on the “Pipe & Conduits” tab.

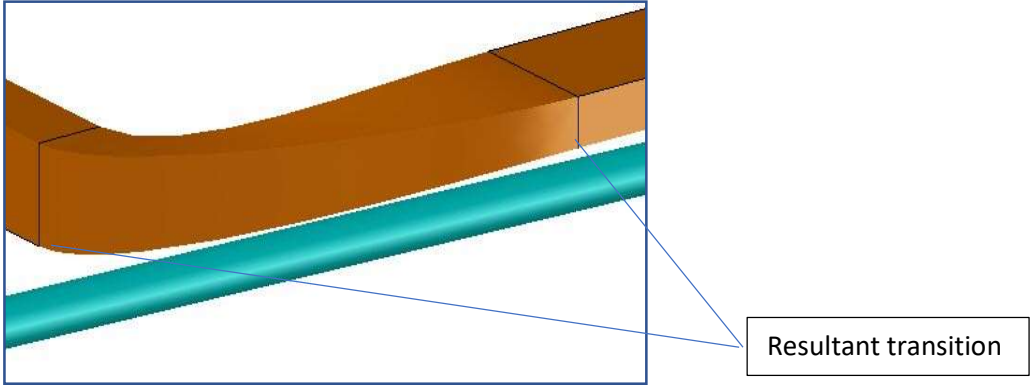
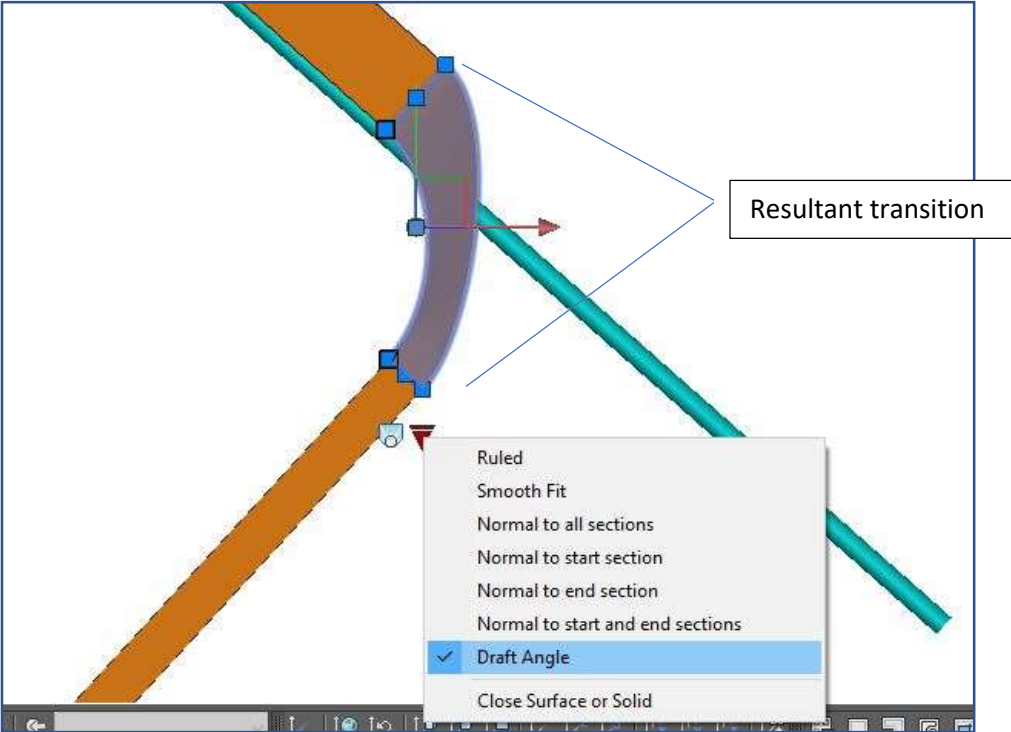
Each conduit run creates a polyline at the beginning and end for connecting to another run. After clicking on “Create Loft” pick a point on the edges of the runs to be connected. If the polyline is not highlighted exit the command and use AutoCAD’s “Display Order” command to send the conduit solids to the back and retry.



After connecting the runs pick the lofted run, right click and choose “Normal to all sections”.



When creating a lofted run around a bend use the same procedure and choose "Draft angle" from the right click menu.



Quick start Pipes:

Enter the inside pipe diameter and start and end invert elevations. Click “Create Run” to place the pipe run.

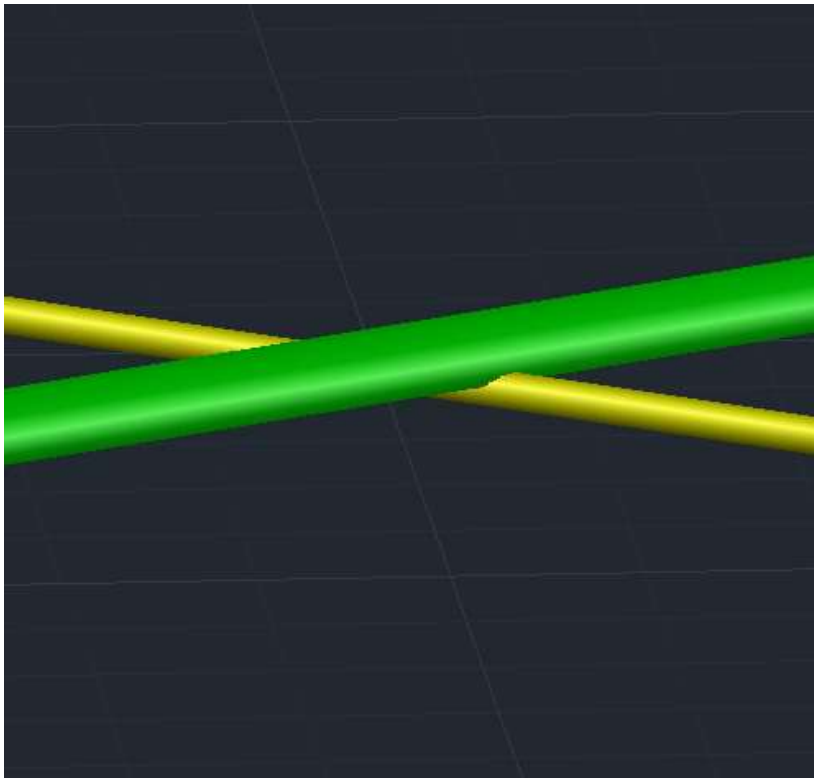
Pipes

Pipe Diameter in

Start Point
Invert Elevation ft

End Point
Invert Elevation ft

Clearances can be factored in by increasing the pipe diameter of the run as long as vertical and horizontal clearances are the same.



Civil 3D pipe networks can be x-referenced in for visual analysis or can be imported as 3D Solids.