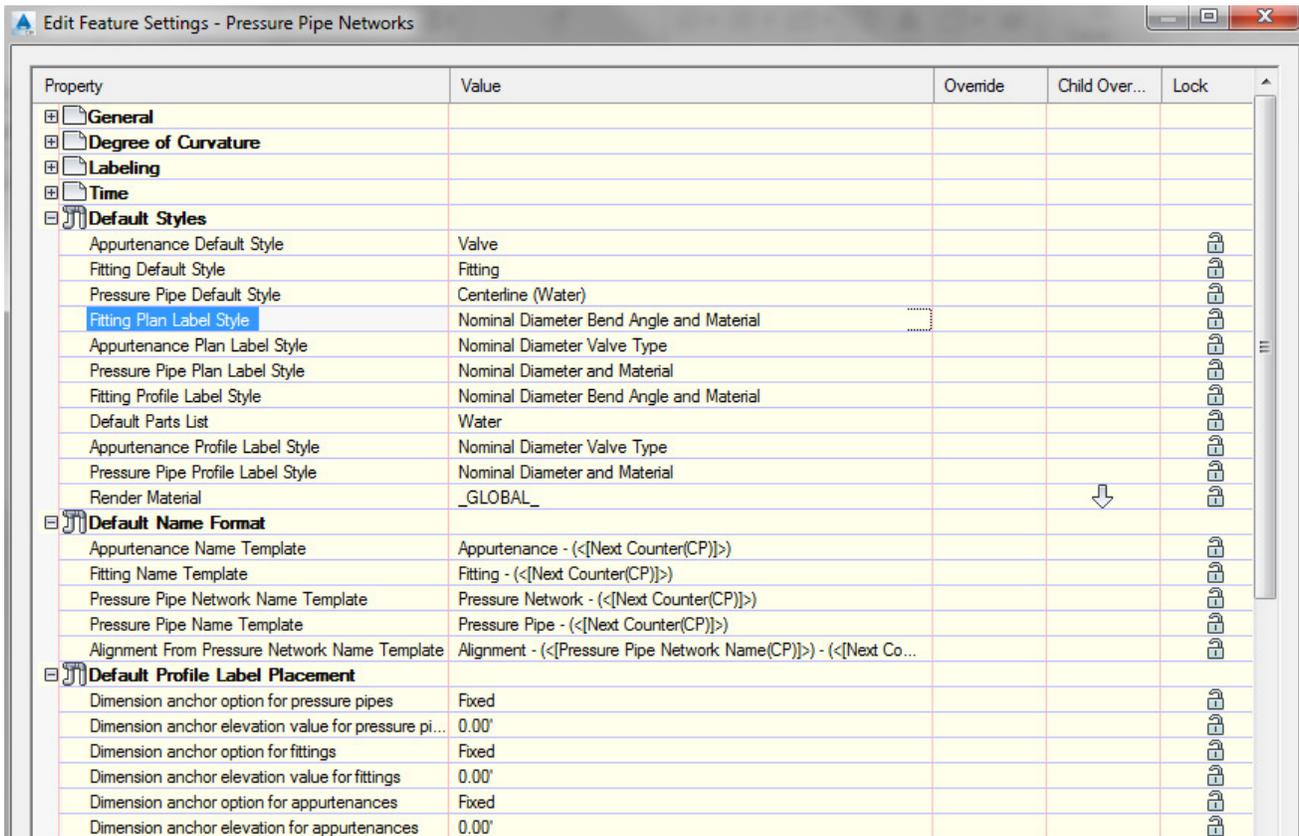
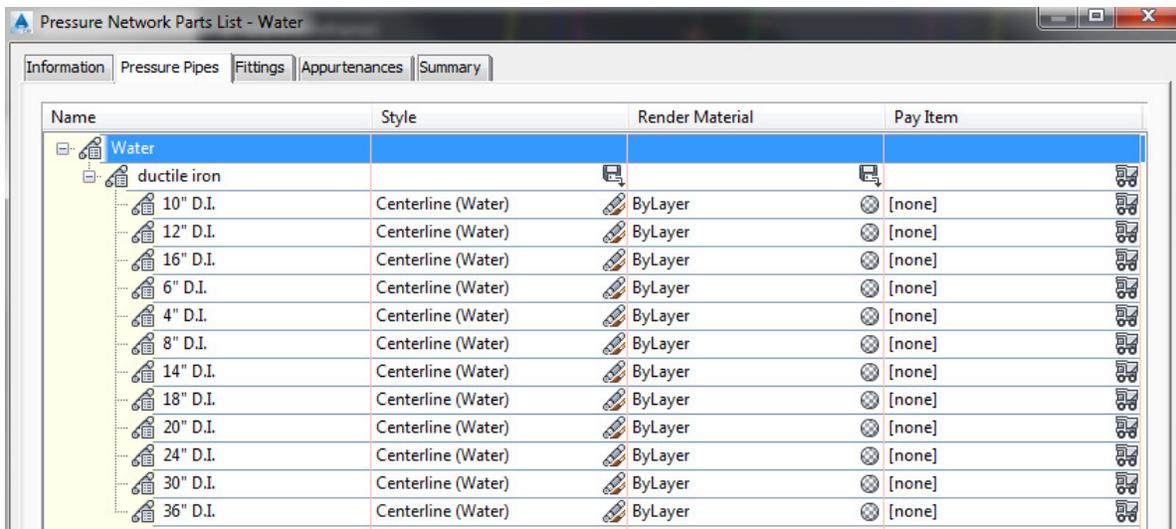


## Cheat Sheet – Pressure Pipes – 2015

1. Edit the feature settings for the pressure network. Under the settings tab, right-click on “Pressure Network” and then select “Edit Feature Settings”.

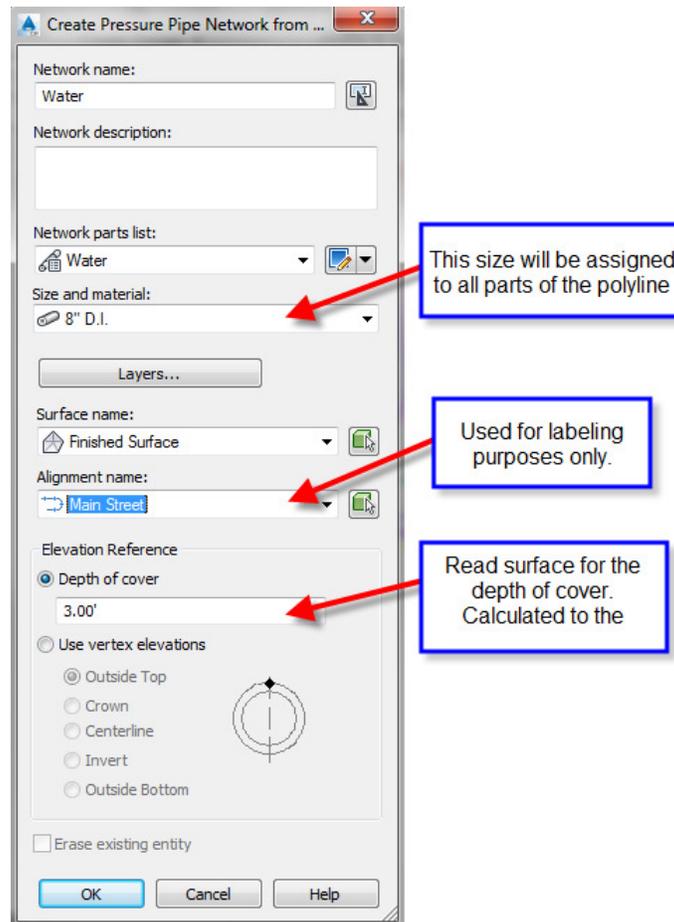
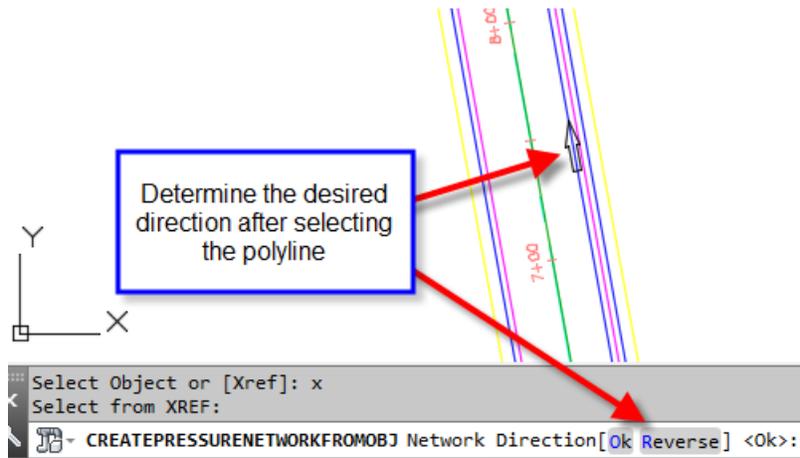


2. Right-click the part list you wish to use and select the edit button.

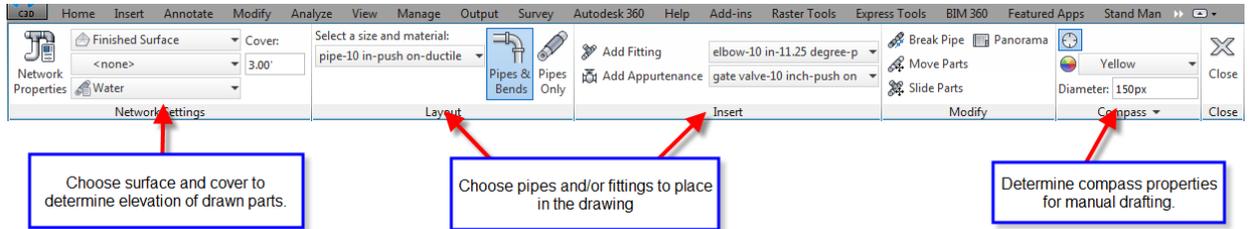


3. Two choices for creating a pressure pipe network: (a) Create from Object, (b) Pressure Network Creation Tools

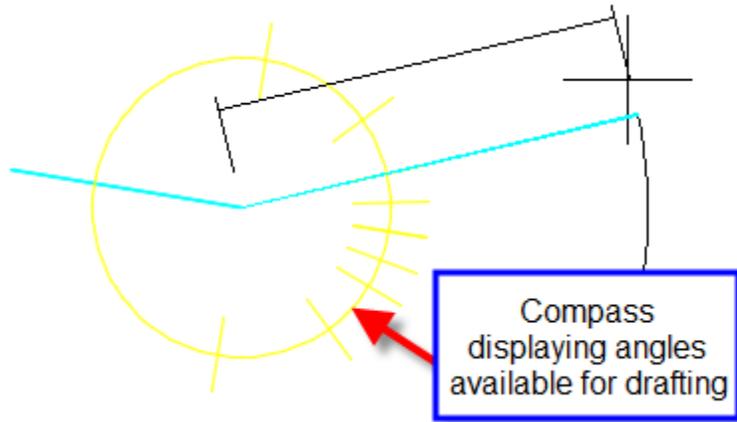
a. "Home" ribbon tab > Pipe Network > Create Pressure Network from Object



b. "Home" ribbon tab > Pipe Network > Pressure Network Creation Tools



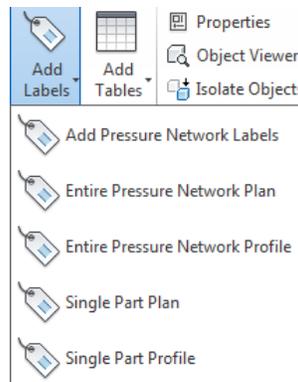
During the drawing process, the compass will guide you with only angles that the parts list has.



4. "Modify" ribbon tab > Pressure Pipe Network > Network Tools > Draw Parts in Profile

Either select the entire pipe network or select the parts you wish to show in the profile view. You can also click on a part, then right-click and choose add part to profile view. This is also available in the right-click menu after selecting a part. Alternatively, use the Pipe Network tab of the Profile View Properties to turn pipes on and off.

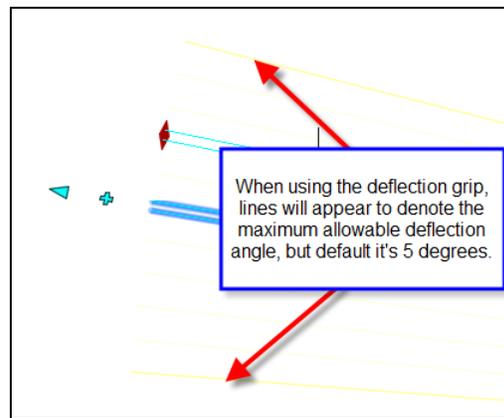
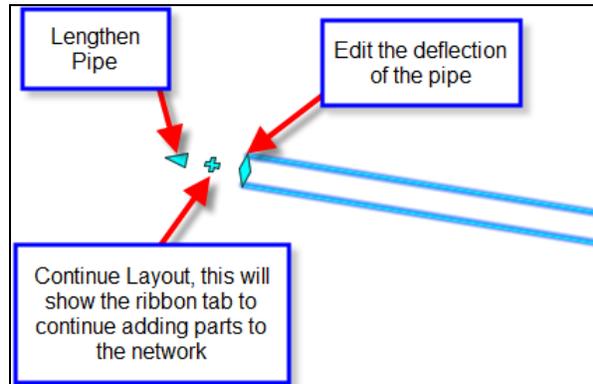
5. "Pressure Network" ribbon tab > Add Labels ... or "Home" tab > Add Labels



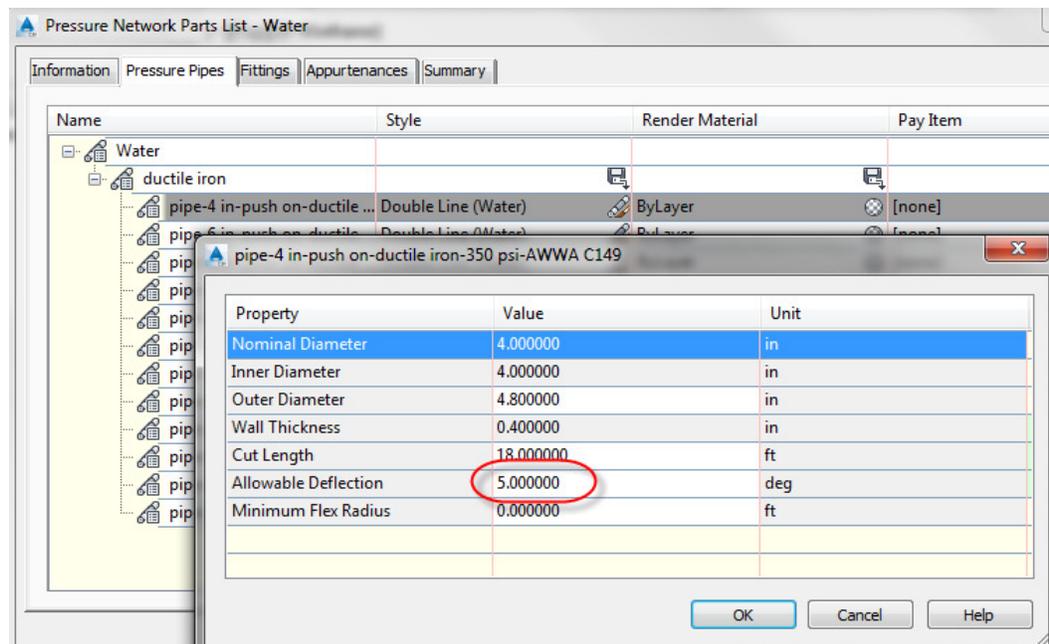
# Different Methods of Editing a Pressure Network

## 1. Using Grips

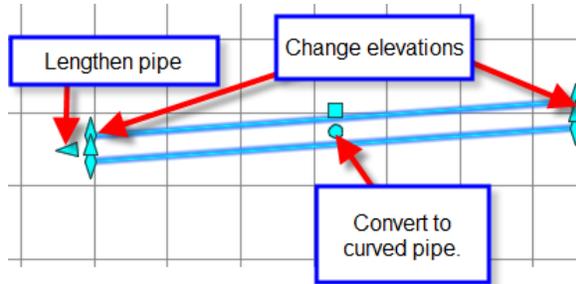
### a. Plan View



You can edit the allowable deflection in the parts list by editing a particular pipe.

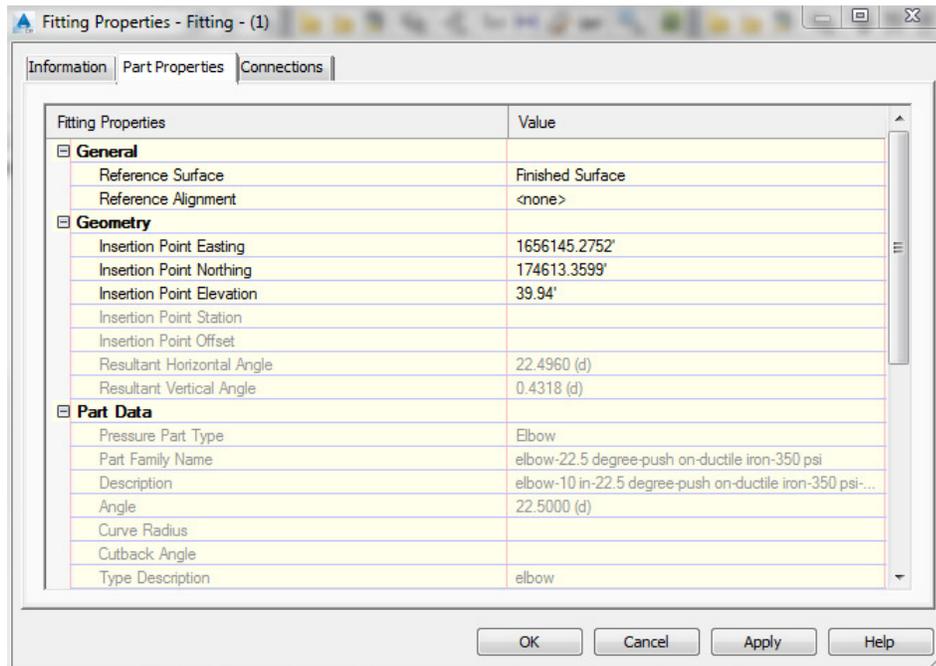


- b. Profile View – You can hot grip the invert, centerline, or crown of a pipe. You can also multi-hot-grip grips by holding down shift while selecting the grip.

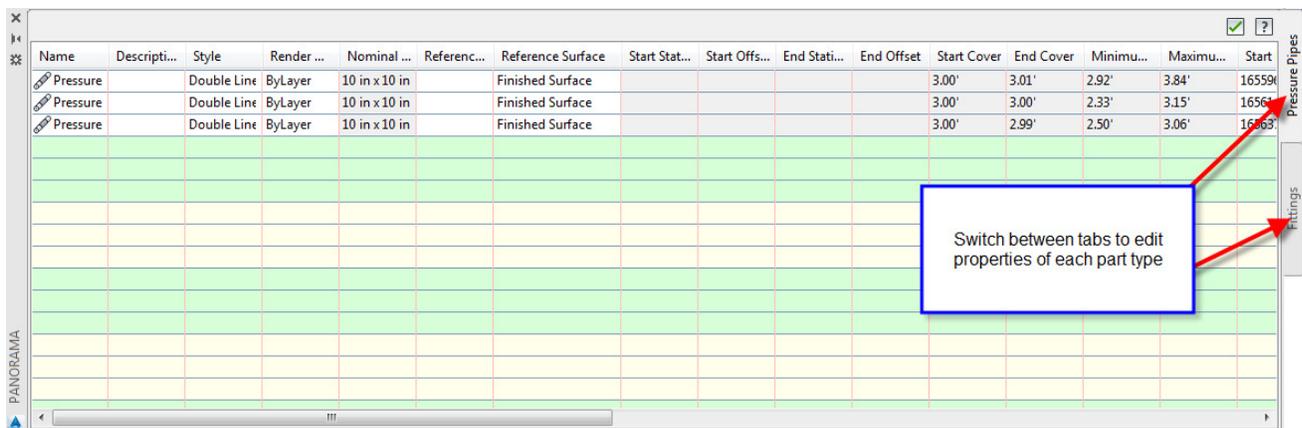


## 2. Using the pressure part properties

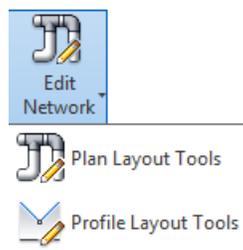
Pressure Pipe Properties	Value
<b>General</b>	
Reference Surface	Finished Surface
Reference Alignment	<none>
<b>Geometry</b>	
Start Part	
End Part	Fitting - (1)
Bearing	S80° 42' 04"E
Start Station	
End Station	
Start Offset	
End Offset	
Slope	-0.65%
Pipe Start Easting	1655969.5002'
Pipe Start Northing	174642.1404'
Pipe End Easting	1656144.9052'
Pipe End Northing	174613.4205'
Start Centerline Elevation	38.78'
End Centerline Elevation	39.93'
Start Invert Elevation	38.36'
End Invert Elevation	39.52'
Start Outside Crown Elevation	39.24'
End Outside Crown Elevation	40.40'
2D Length	177.74'
3D Length	177.74'
Minimum Cover	2.92'
Maximum Cover	3.84'
<b>Part Data</b>	
Part Family Name	pipe-push on-ductile iron-350 psi
Description	pipe-10 in-push on-ductile iron-350 psi-AWWA C151
Cut Length	18.00'
Diameter Inside	
Diameter Outside	11.100"
Type Description	standard
Minimum Flex Radius	0.00'
Thickness	0.550"
Nominal Diameter Description	10 in x 10 in
Id Coating Inside	
Id Coating Outside	
Id Material	ductile iron
Pressure Class	350psi
Maximum Pressure	
Schedule	
SDR	
Series	
Strength Class	
Thickness Class	
Compatible Standard	AWWA C151
Connection Point Count	2
Fid Manufacturer	
Model Name	
Version Number	



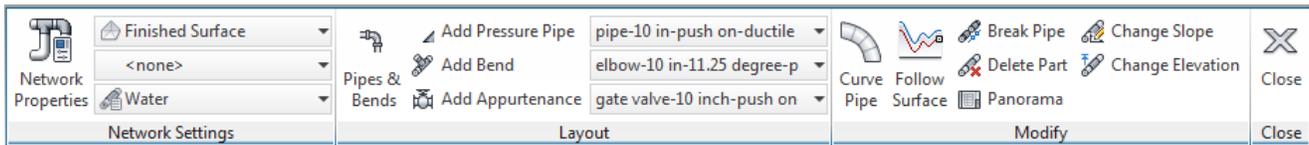
### 3. Using the Edit Pipe Network Vista.



### 4. Pressure networks allow for plan and profile layout tools during editing.



- Plan layout tools are the same commands described above in this document under pressure pipe layout tools.
- Profile layout tools allow the user to add additional parts as well as change values not allowed in the part properties, such as slope.



## 5. Other Tips, Tricks, and Limitations

- a. Pressure pipes does not allow the user to change the part after drawn. You must delete the part and draw it again. For example, changing a pipe size from 10” to 12” is not allowed.
- b. The follow surface command in profile layout tools creates additional vertices to follow the surface more closely. The program does not allow the user to remove those vertices later, the user would have to delete the pipe and draw it again.
- c. Use Design Check and Depth Check to analyze the pressure network for open connections and cover violations.
- d. Drawing pipes and bends in the profile layout tools creates an efficient way to create these vertical bends.

<http://tinyurl.com/pwldy4m>

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