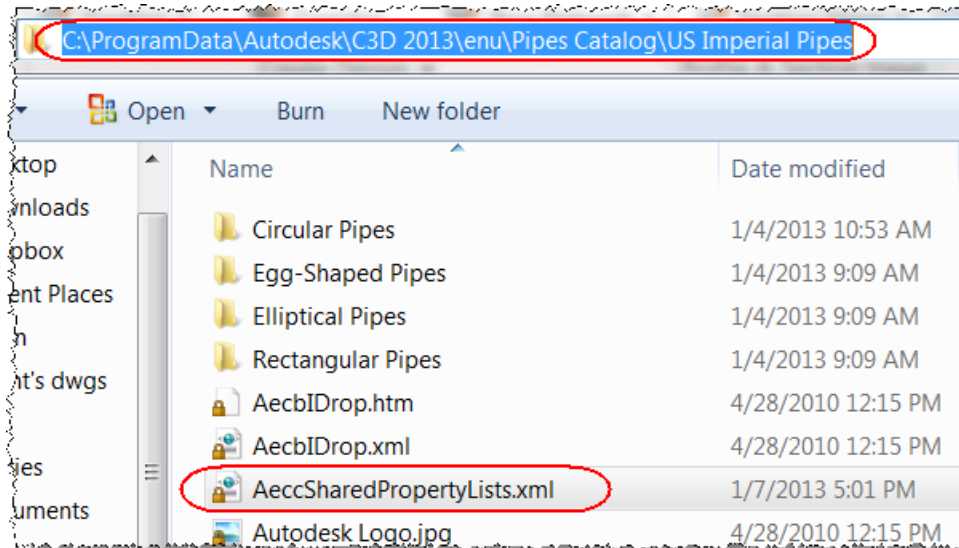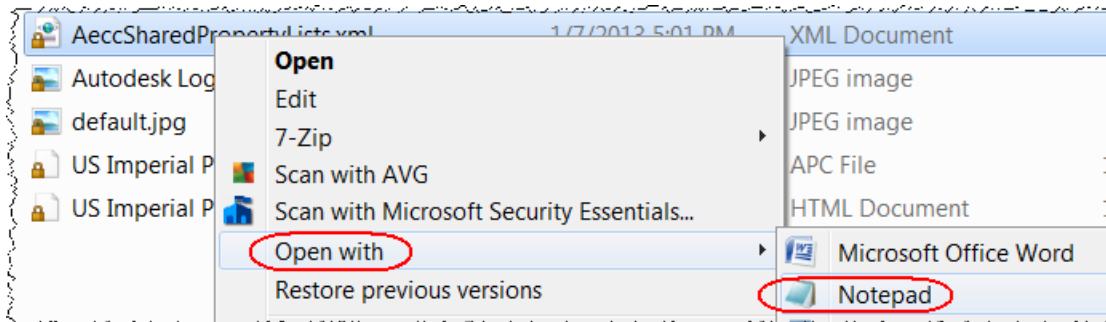According to Autodesk (http://beingcivil.typepad.com/my_weblog/2011/02/quick-tip-how-to-add-a-custom-material-to-your-parts.html) you must first edit the AeccSharedPropertyLists.xml file, but I've yet to find how this will negatively affect the software if I don't do this. But since Autodesk recommended it I'll go with it:
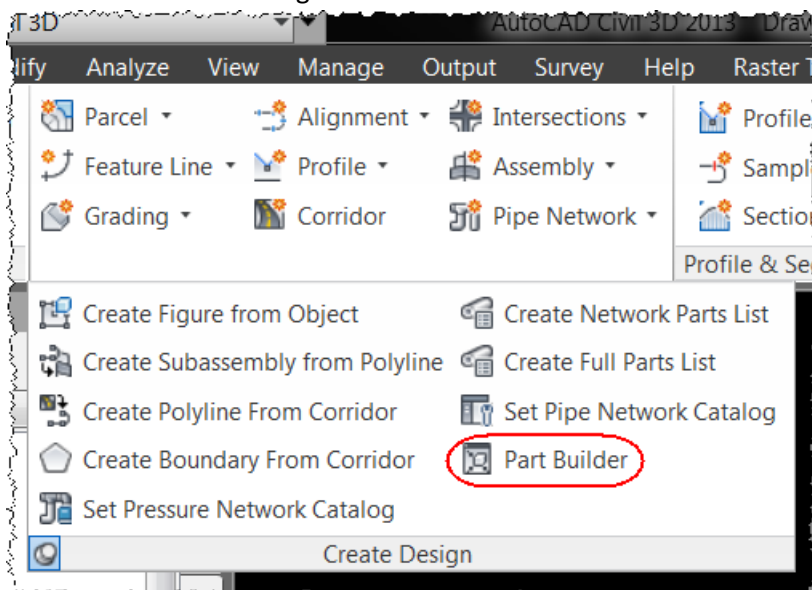

Open the XML file with Notepad:
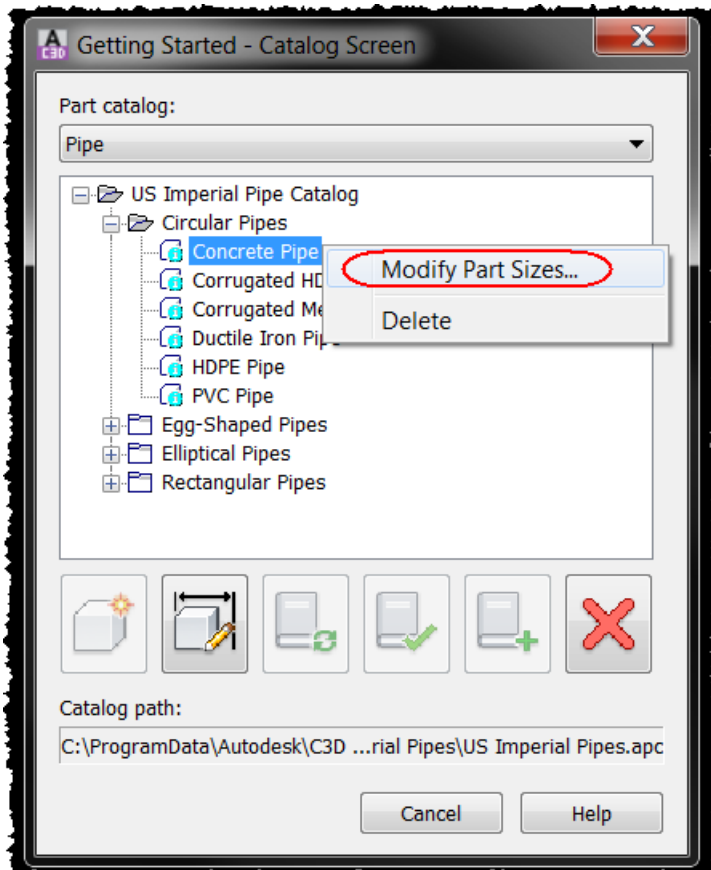
Add this line of text to the file:

```
AeccSharedPropertyLists.xml - Notepad

File  Edit  Format  View  Help

<?xml version="1.0"?>
<LandPart desc="Part Table" version="1.0" xmlns:xlink="http://www.w3.org/1999/xlink"
fixColumn="C1">
        <ColumnConstView desc="Parameter-driven Display" id="CCV1" viewKey="3d"
viewName="AeccPartRecipe">
                <Images>
                        <Image>
                                <URL xlink:title="Part Reference Image"
xlink:href="PathToBmp.bmp"/>
                        </Image>
                </Images>
                <Recipe>PathToDwg.dwg</Recipe>
        </ColumnConstView>
        <ColumnConstList desc="Material" dataType="string" unit="" name="Material" id="CCL1"
visible="1" context="Material_Type" index="0">
                <Item id="i0"></Item>
                <Item id="i1">Reinforced Concrete</Item>
                <Item id="i2">Corrugated Steel</Item>
                <Item id="i3">ABS Plastic</Item>
                <Item id="i4">Ductile Iron</Item>
                <Item id="i5">PVC</Item>
                <Item id="i6">RCP</Item>    ← Add this line
        </ColumnConstList>
</LandPart>
```
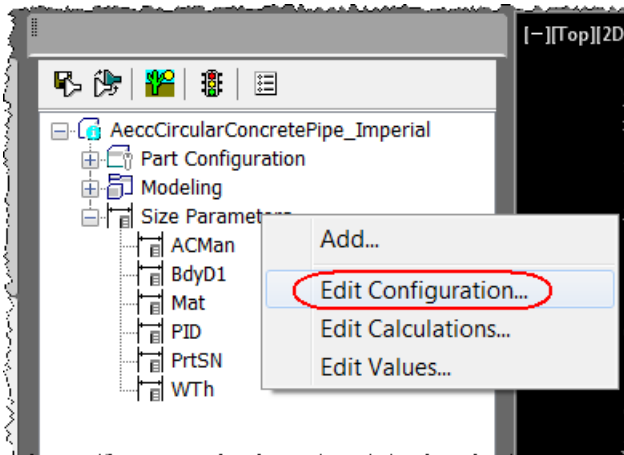
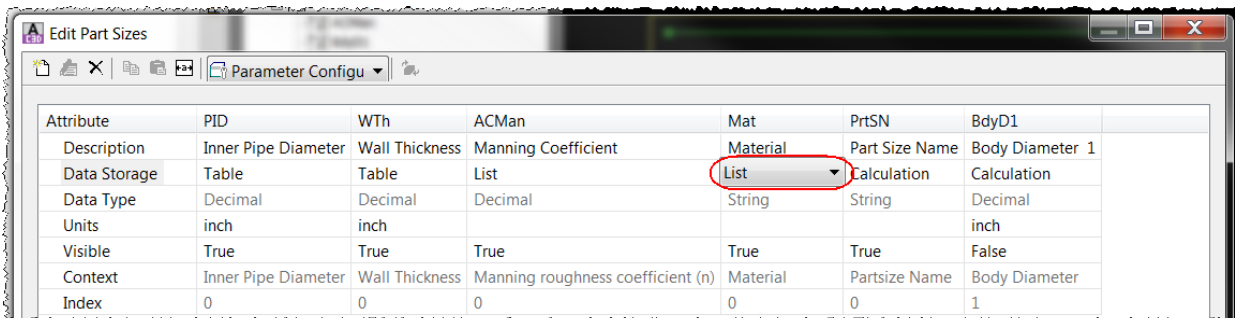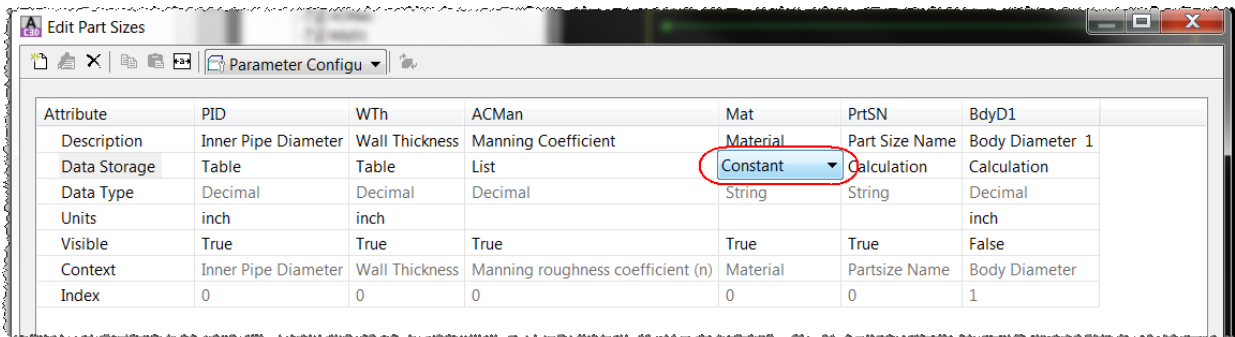Now launch Civil 3D and go into the Part Builder:

In the Part Builder, right-click on Concrete Pipe and select Modify Part Sizes:
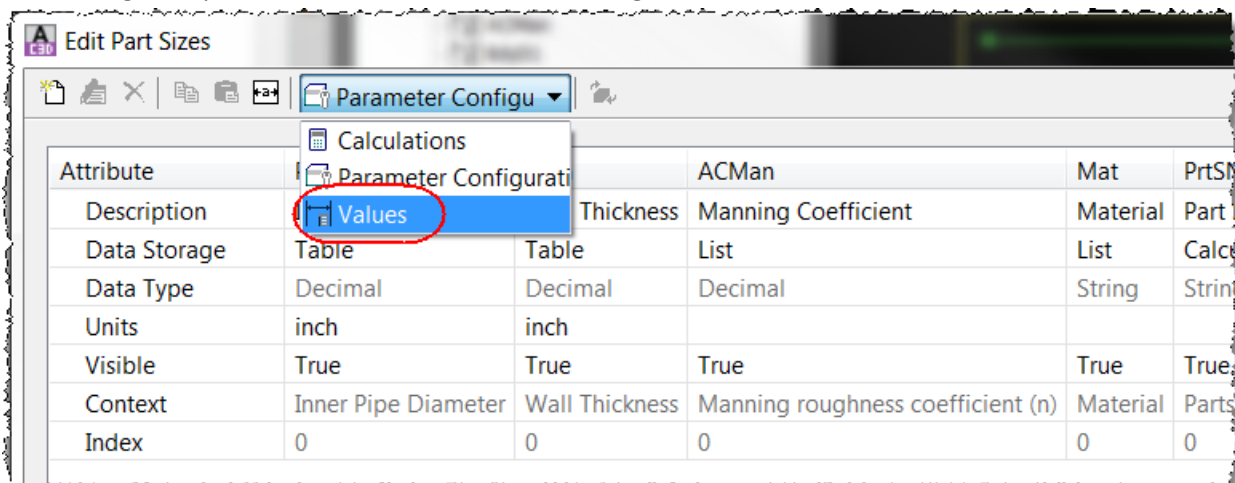

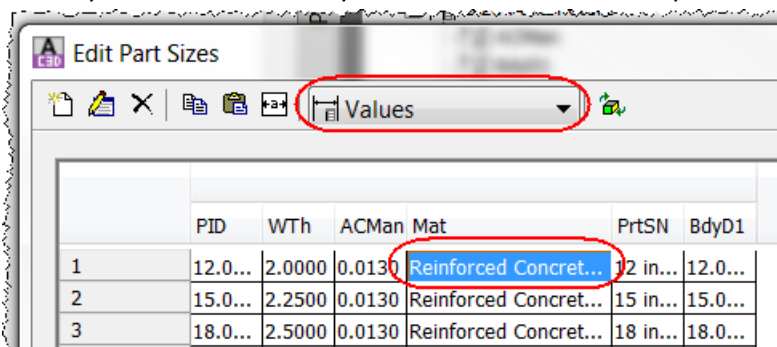Right click on Size Parameters and select Edit Configuration:

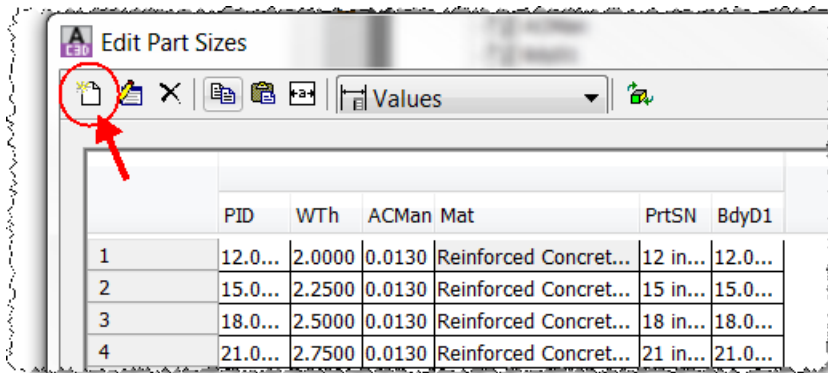In the Edit Part Sizes dialog box, find the "Mat" column and change the value from Constant to List:

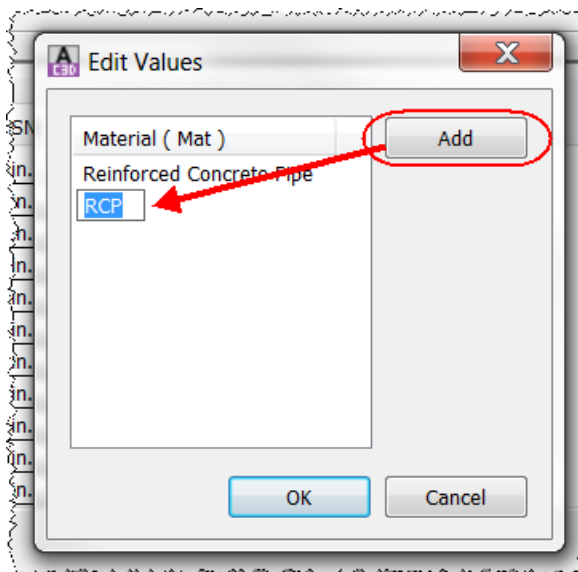Then change the pull-down list from Parameter Configuration to Values:

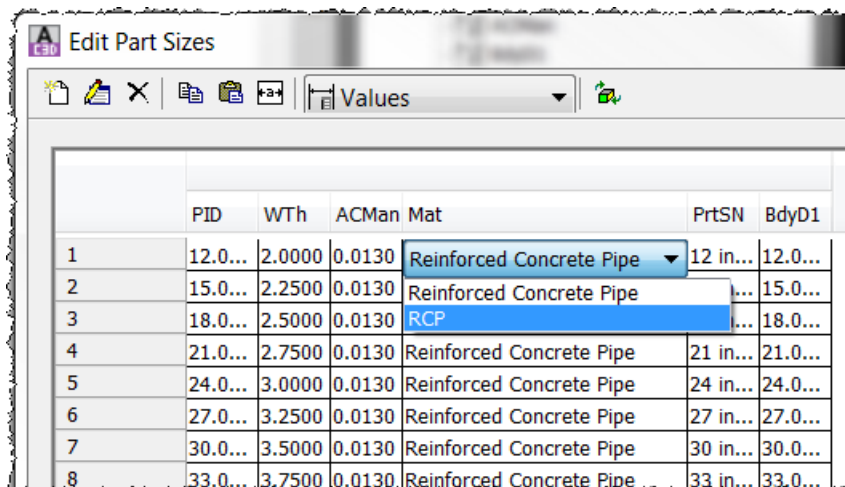The only material offered to you is Reinforce Concrete Pipe:

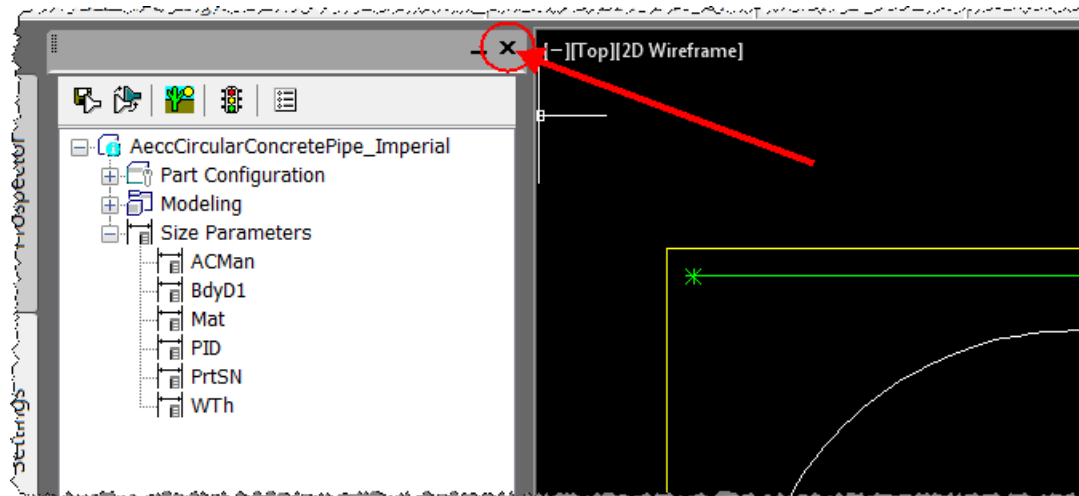Click on the "New" button to add a new material to your option:

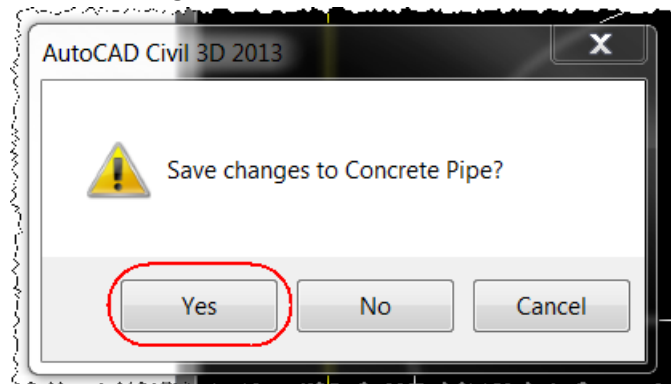Click the "Add" button and add the RCP material:

You will then see it as a material option:
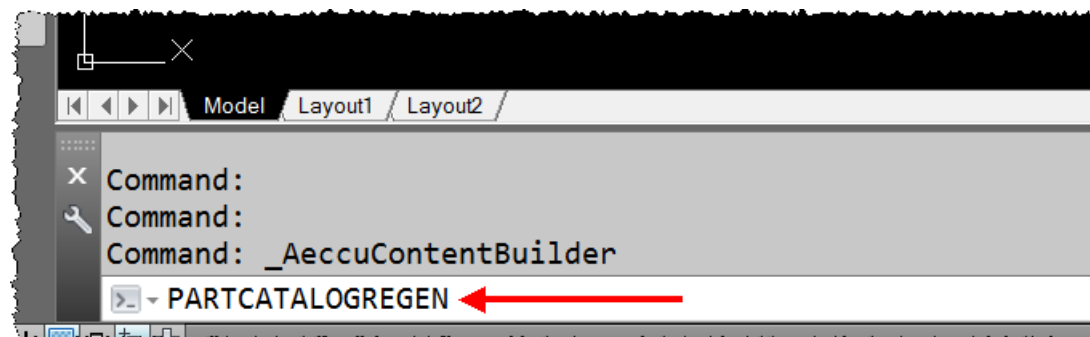
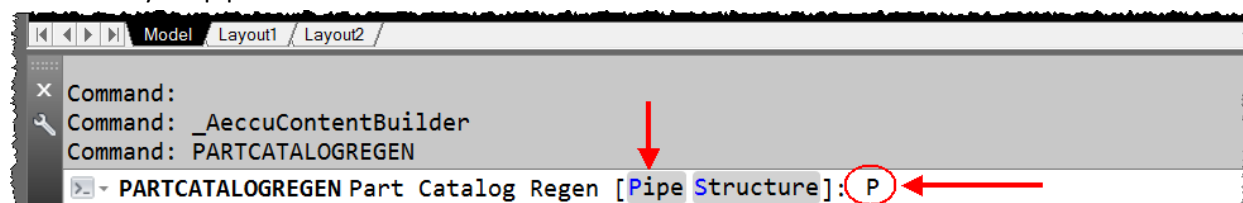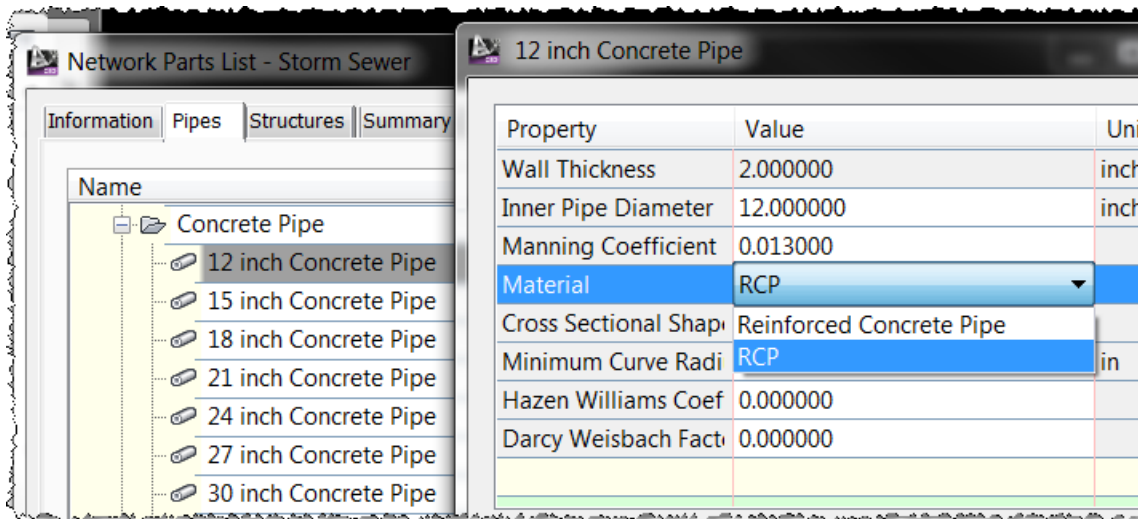Close out the Part Builder:

Save the changes:

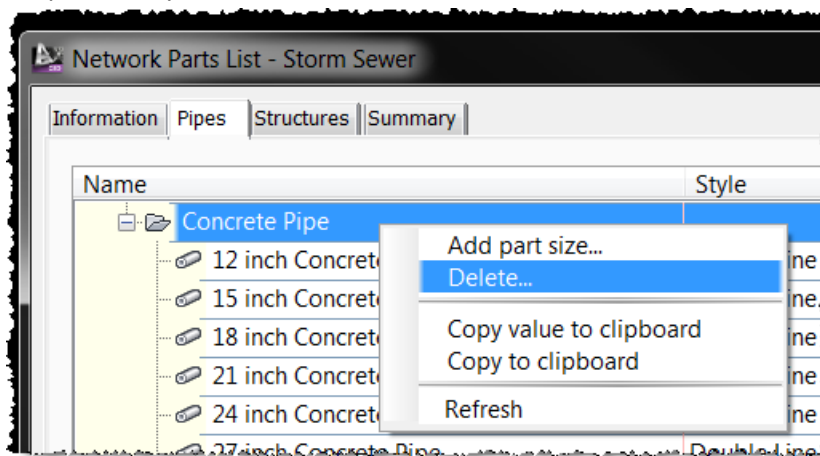
Run the PARTCATALOGREGEN command:
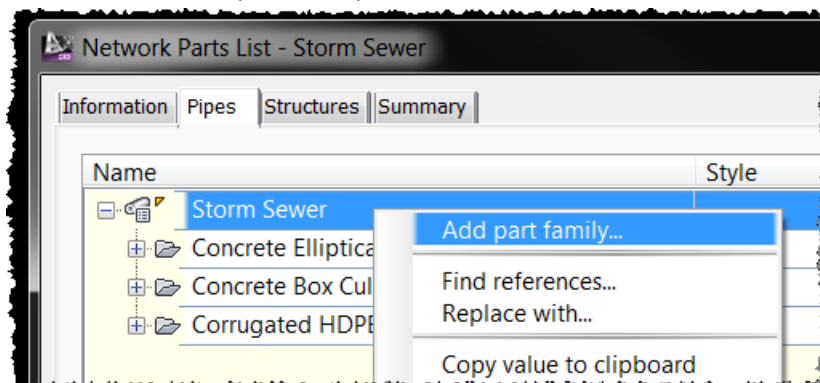

And reload your pipes:

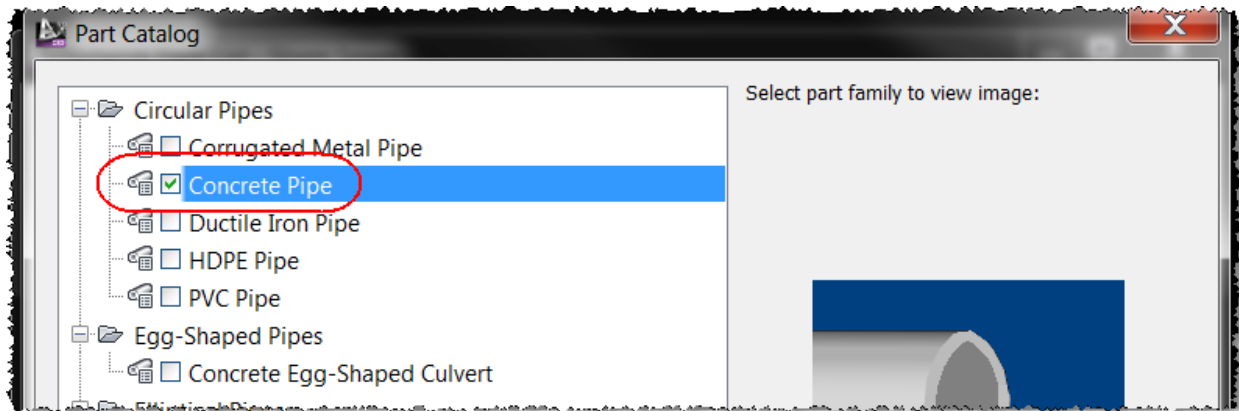You will now see that the RCP material is an option in your list:

However, I couldn't get the label to work with a current drawing. I created a new drawing and deleted the part family:
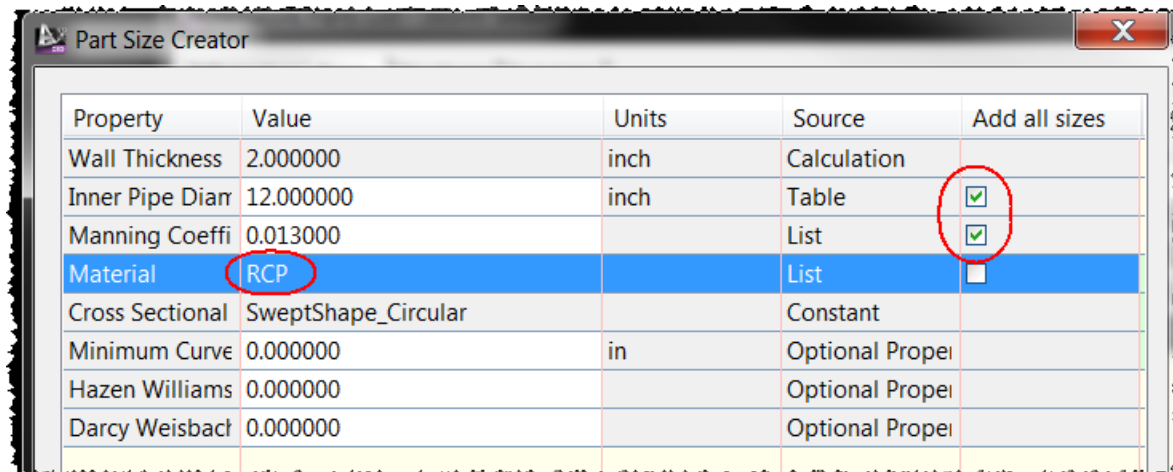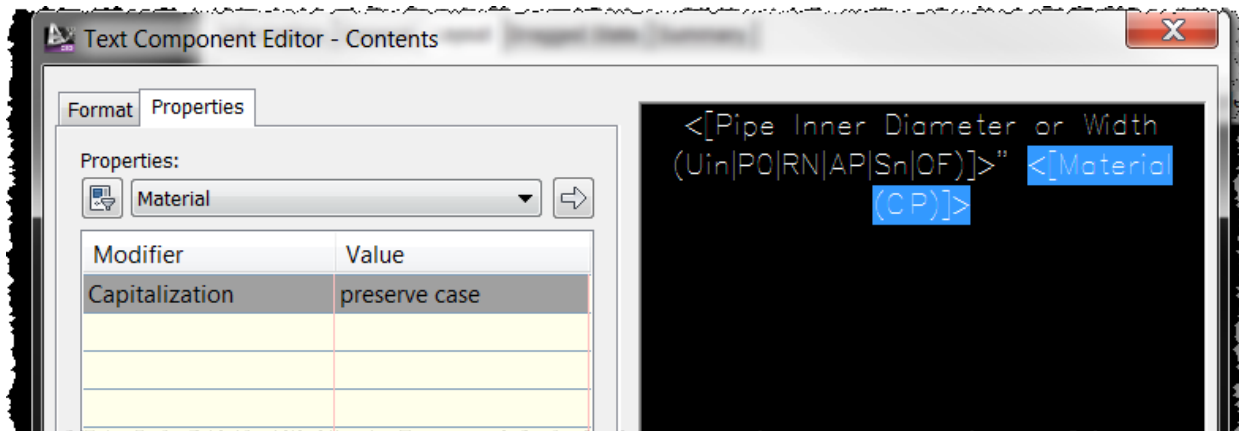

I then added a new part family:

And selected "Concrete Pipe":

I added all the part sizes and verified the material was set to RCP:

I then created a label style that included inner diameter and material:

And the final outcome labeled the pipes as needed: