Practice Exercise 5
Create a Pipe Network

This exercise provides you with practice for creating a pipe network, alignment, surface, and a profile view. You'll use the concepts you learned in Lesson 5: Pipe and Pressure Networks.

Instructions:

1. Open the file **Practice Exercise 005.dwg**.
2. Create a pipe network using the sanitary sewer parts list and surface name set to TEST SURFACE.
3. In Network Layout Tools, set the structure type to the only concentric cylindrical structure and the pipe type to 12 inch PVC. Toggle the build direction to Downslope and choose the Pipes and Structures creation method.
4. Starting with 1 and working your way to 5, place a structure at the center of each circle in numerical order (use the Pipes and Structure method).
5. Create an alignment using the Create Alignment from Network Parts command (be sure to select all structures and pipes). Use TEST SURFACE as your surface for the Create Profile from Surface window.
6. Create a profile view for your network alignment and draw the network in profile view.

Once you have completed these steps, please answer the following questions (Precision 0.01):

- What is the Rim elevation of the structure at 1?

- What is the percent slope of the pipe between 3 and 4?

- What is the end invert elevation of the pipe between 1 and 2?

- What is the Rim to Sump height of the structure at 5?