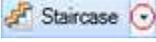
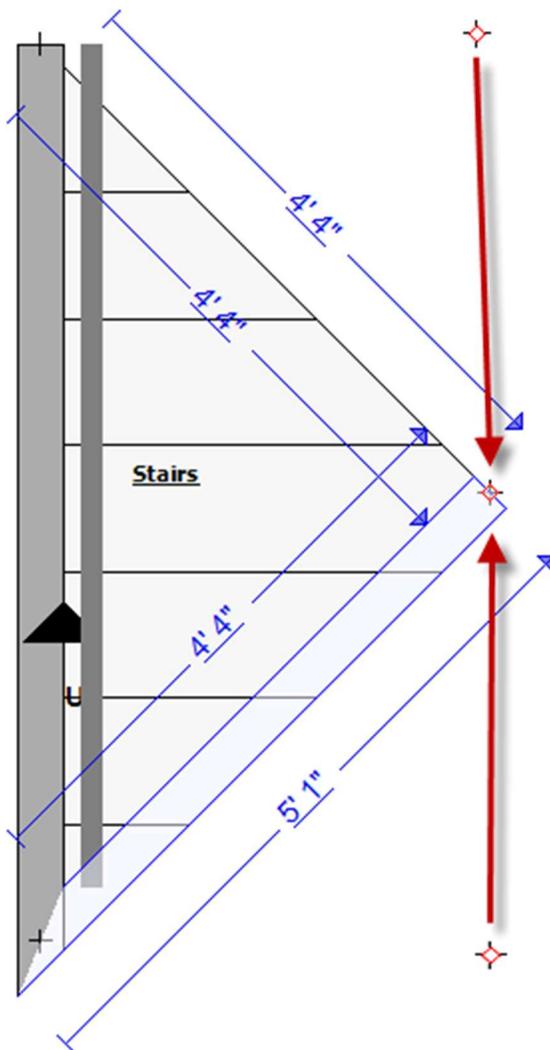


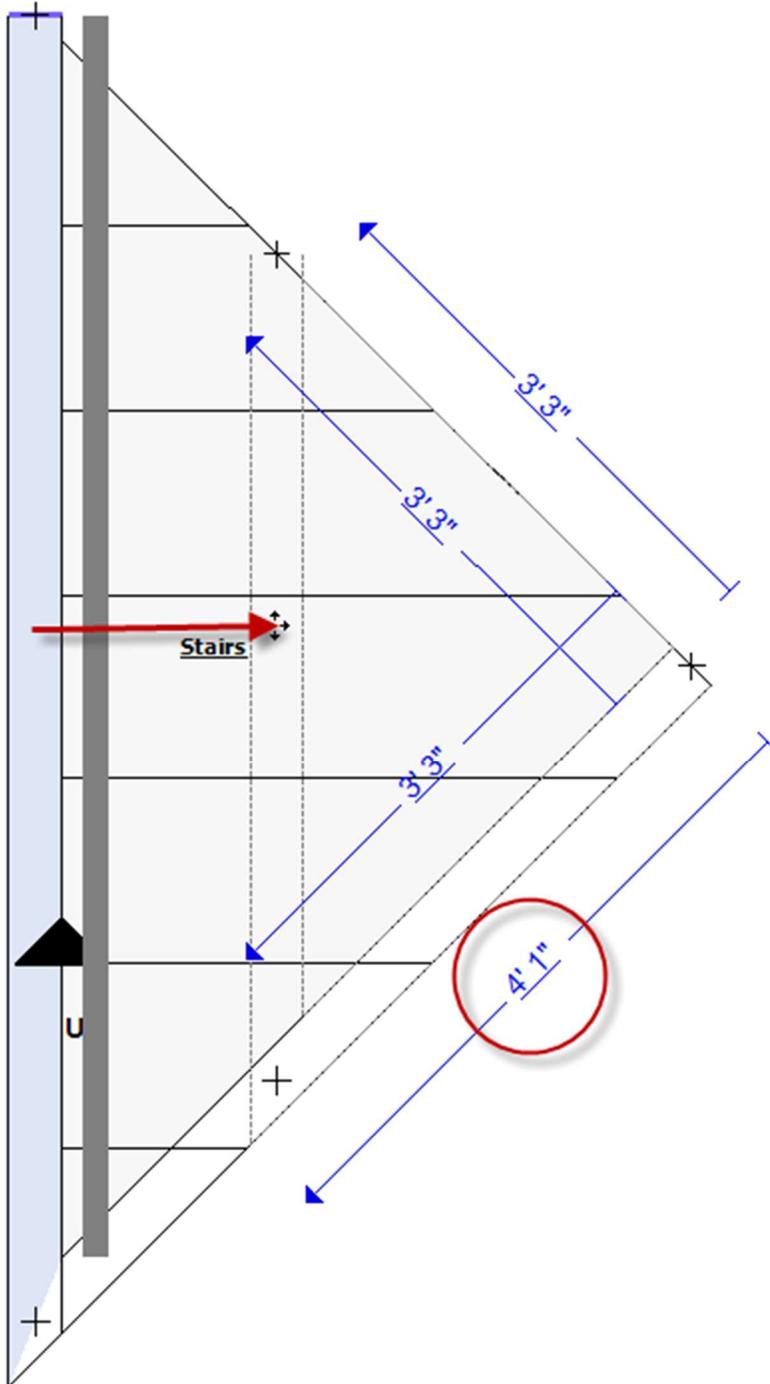
In order to sketch a spiral staircase, you will need three pieces of information:

- The degree of rotation.
- The total number of risers.
- The riser height.

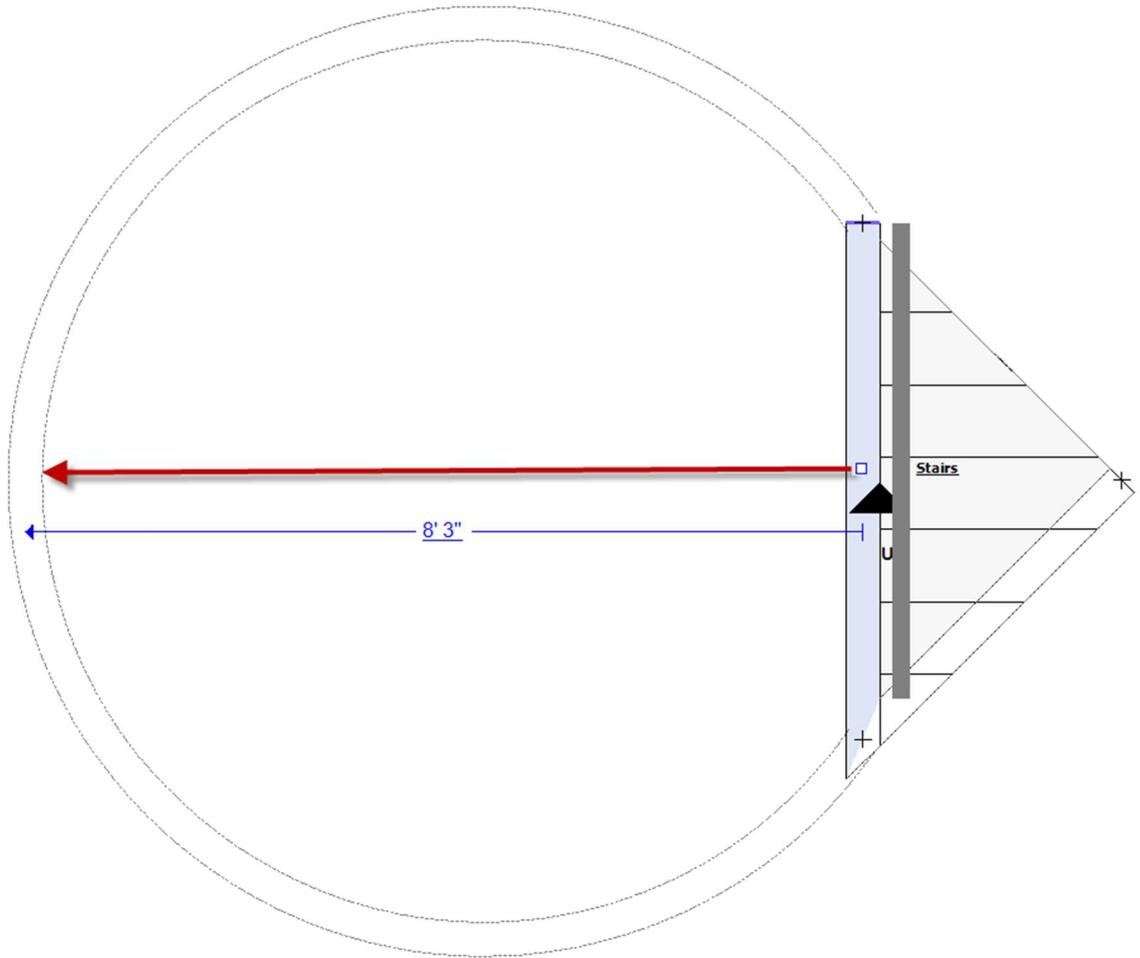
1. Click the Staircase arrow , and select **Custom**.
2. Add a staircase to the sketch workspace that is 6 foot 8 inches long.
3. Select the top wall, and press **Delete**.
4. Click the red diamonds on the top and bottom of the right wall, and drag the walls to 45 degree angles.



5. Click the wall on the left, and drag it to resize the stairs to the correct width.

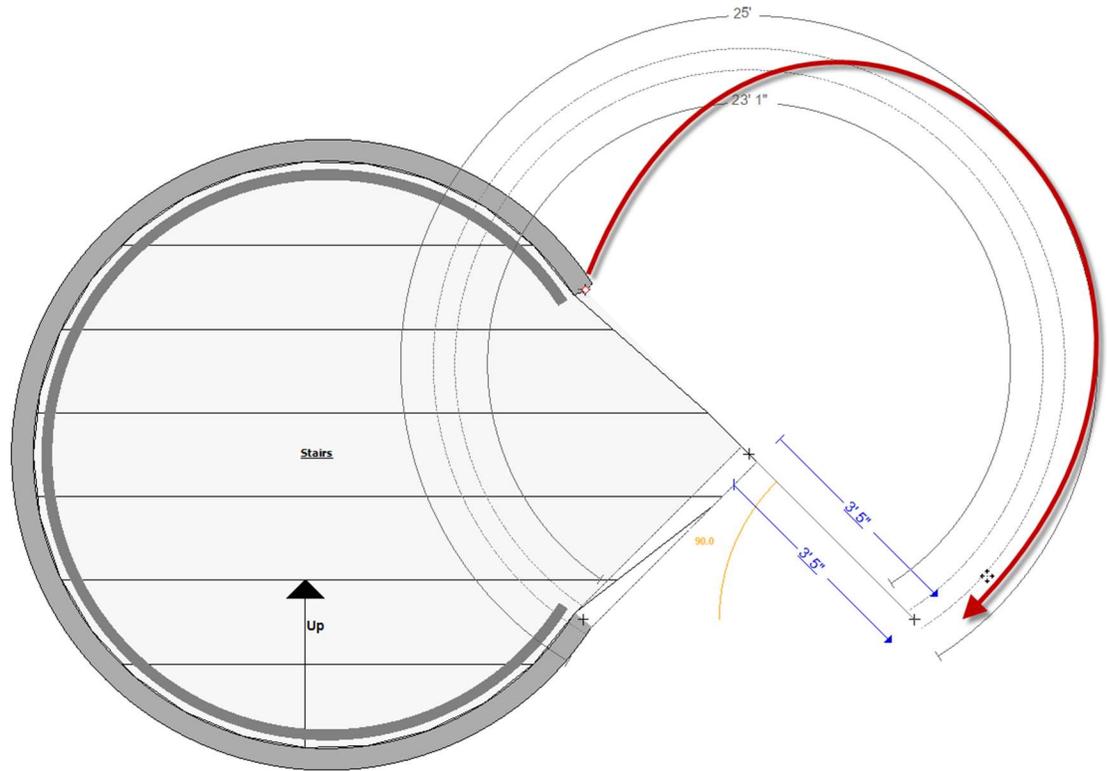


6. Select the stair wall, and click the Properties icon  to open the Staircase Wall Properties dialog box. In the General group, in the Arced Wall box, select **Yes**.
7. Click the blue box on the the wall, and drag the wall to create an arc. The arc should be at least twice the width of the stairs (at least 10 feet).

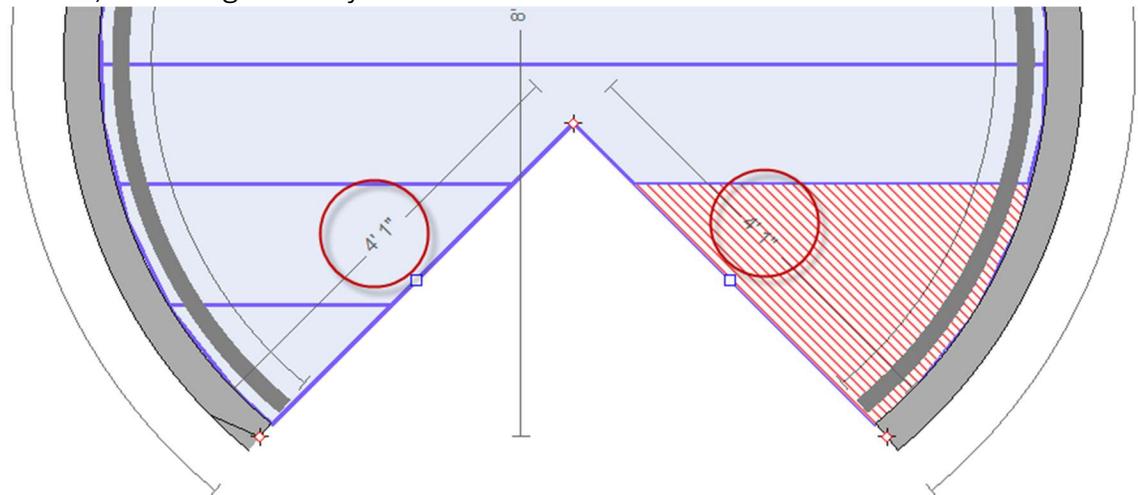


8. Select the stairs, click the red diamond on the top end of the stair wall, and drag it around to the correct degree of rotation. For most spiral staircases, this

will be 45 degrees.

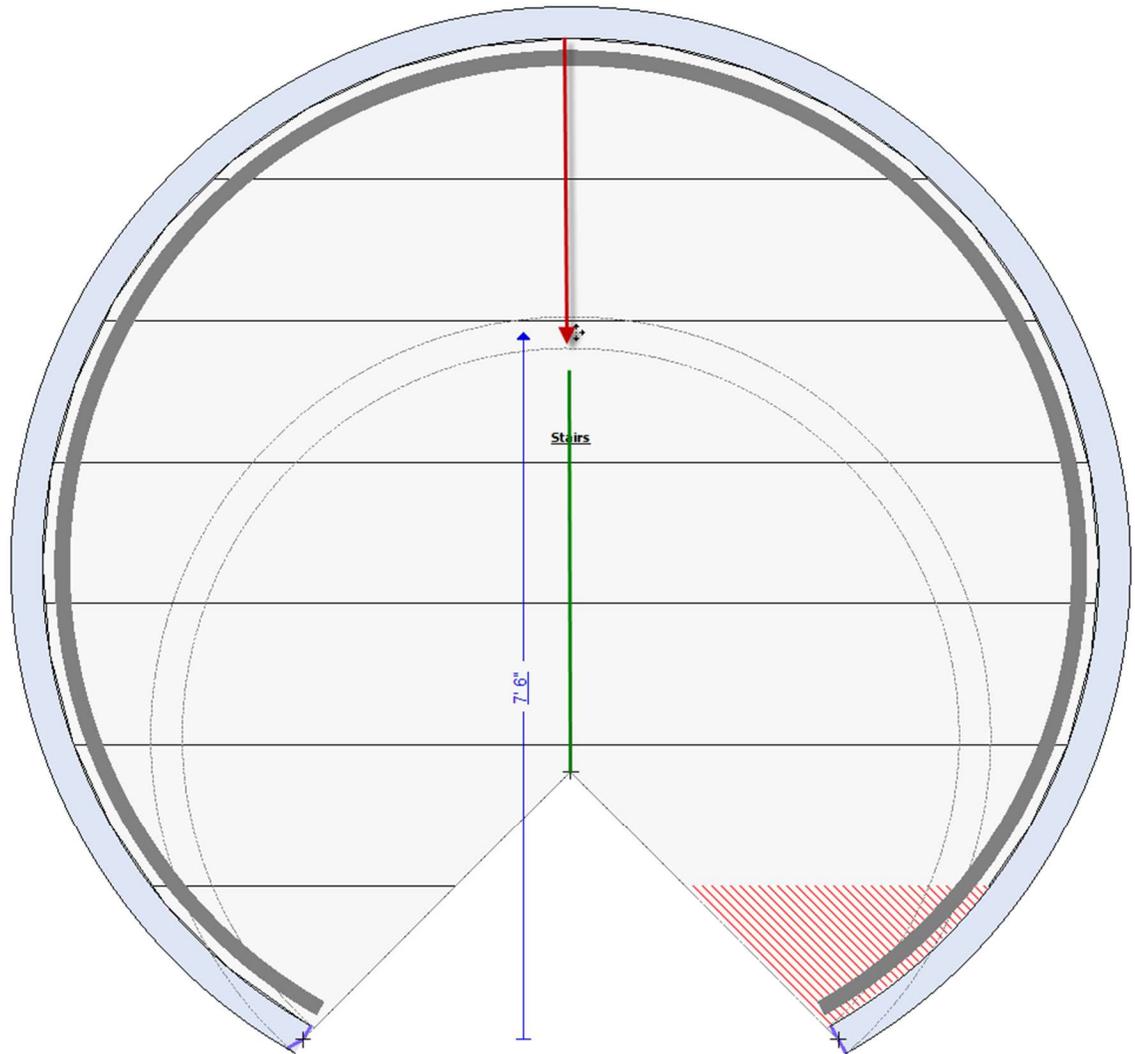


9. Select the stairs, and confirm the width. The top and bottom stairs should be the same width. If they are not, click the red diamond on the bottom right of the wall, and drag it to adjust.



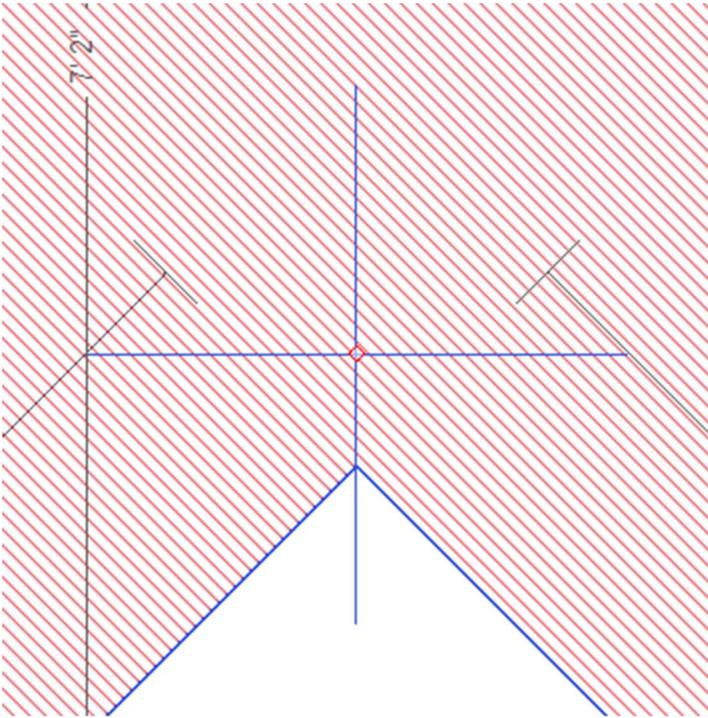
10. Click the Line icon .

11. Draw a reference line from the intersection of the angle, towards the top wall of the stairs. This line should be equal to the current width of the stairs.
12. Select the stair wall, click the blue box at the top, and drag the wall down until the first dotted line meets the top of the reference line. This creates a consistent radius for the stairs.

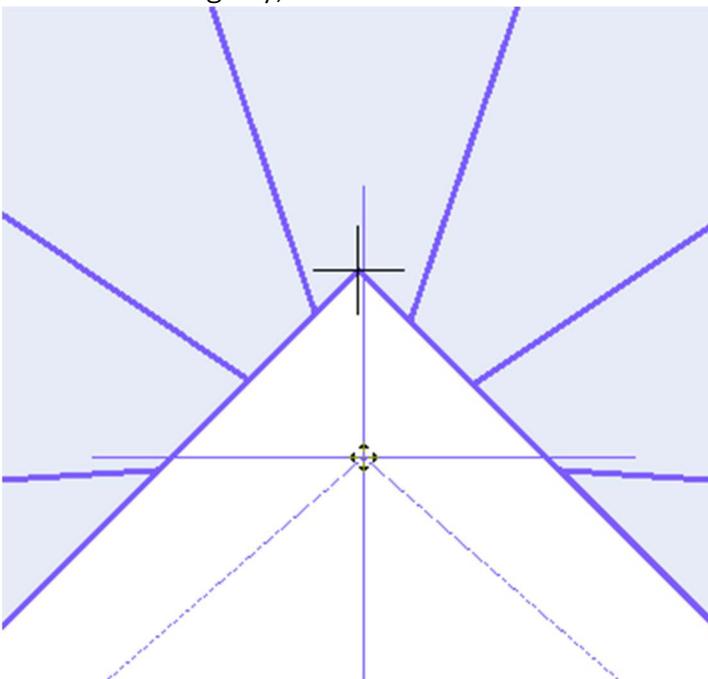


13. Select the reference line and press **Delete**.
14. Select the stairs, and click the Properties icon  to open the Staircase Properties dialog box.
15. In the Staircase group, in the Angled Treads box, select **Yes**.

16. Zoom in to the intersection of the angle.



17. Click the red diamond in the center of the angled treads crosshairs, and drag them down slightly, off the stairs.



18. Press **Shift** and drag the crosshairs back to the intersection of the angle.

19. Click the Properties icon  to open the Staircase Properties dialog box.

20. In the Staircase group, in the No. of risers box, enter the number of risers on the staircase.

21. In the Staircase group, in the Riser Height box, enter the height of the risers.

22. To remove the material beneath the risers, select **Yes** in the Open box.

23. To remove the staircase wall, click the stair wall, click the Properties

icon  to open the Staircase Wall dialog box. In the Wall Type box, select **Missing (end to end)**.

24. Click the 3D  icon to view the spiral staircase in 3D view.