

Using the Flare and Curve Stairs Edit Tools

Reference Number: **KB-00505**

Last Modified: **August 7, 2023**

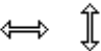


The information in this article applies to:




QUESTION

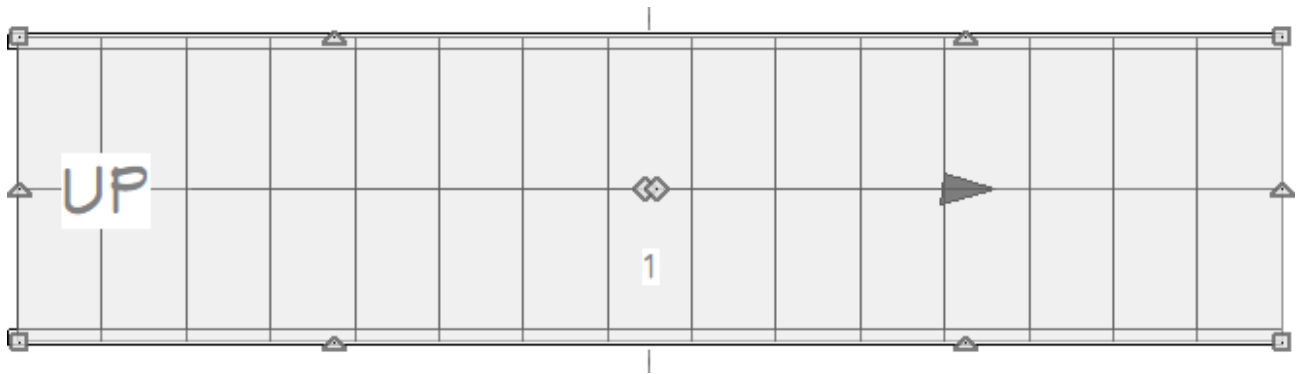
How do I create flared stairs and stairs with curved treads?



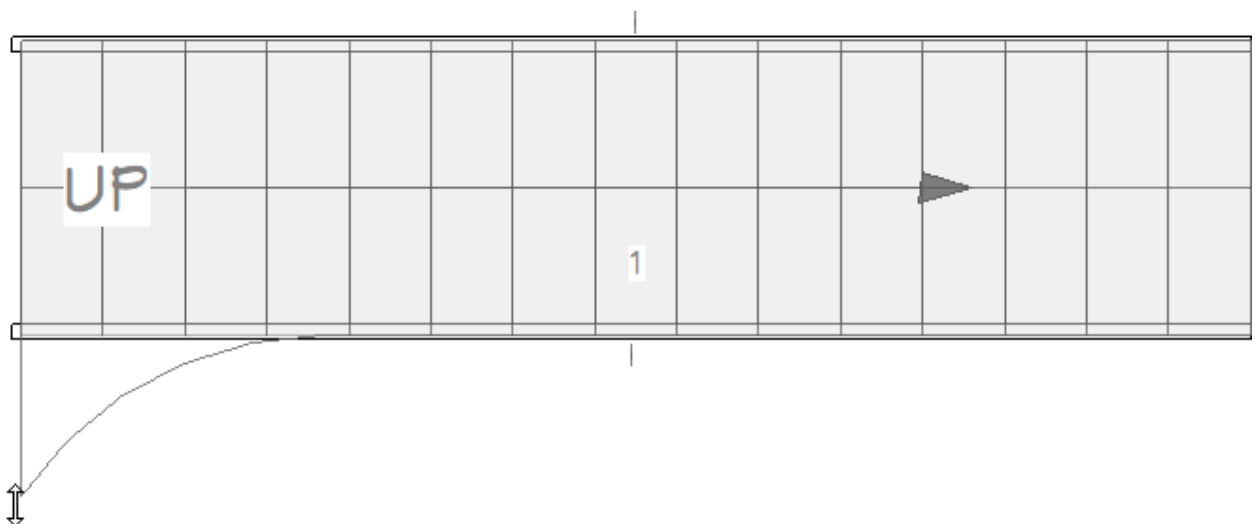
- The **Sizing**  handles on each edge allows you to resize it.
- The **Move**  handle at the center lets you relocate it.
- The triangular **Rotate**  handle lets you change the direction.

5. With the staircase still selected, click the **Flare/Curve Stairs**  edit button.

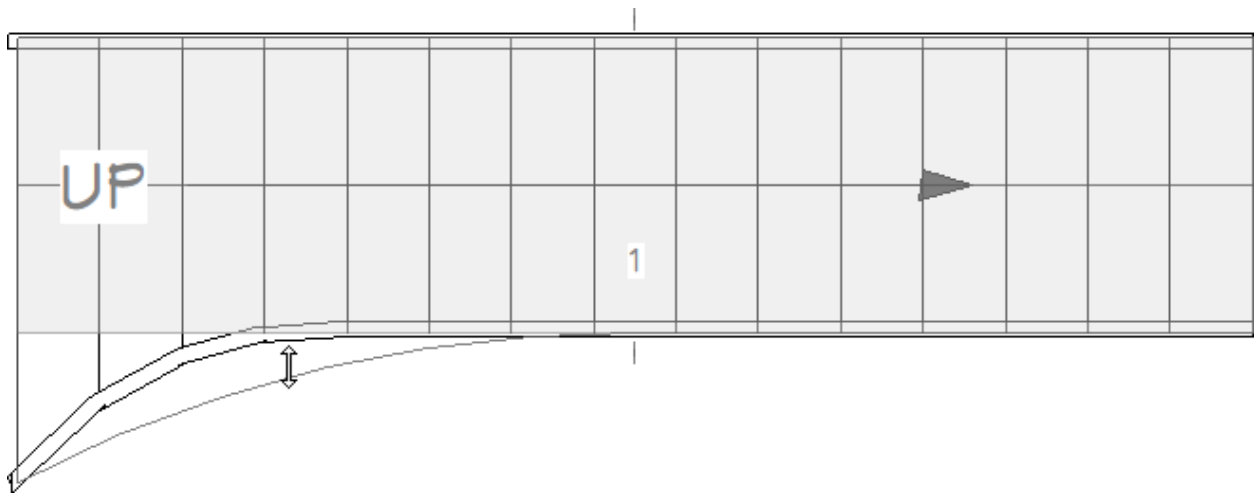
6. Notice the new set of edit handles that now display on the staircase.



- The square handles that display at each corner of the staircase are the flare handles.

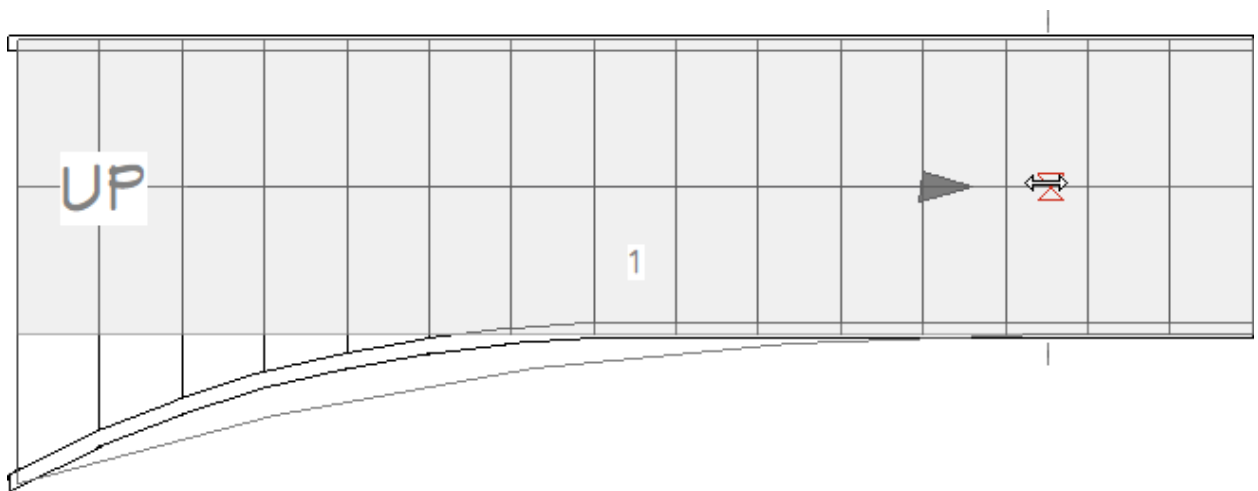


- The triangular handles that display along the long edges of the staircase are used to adjust the flare radius.



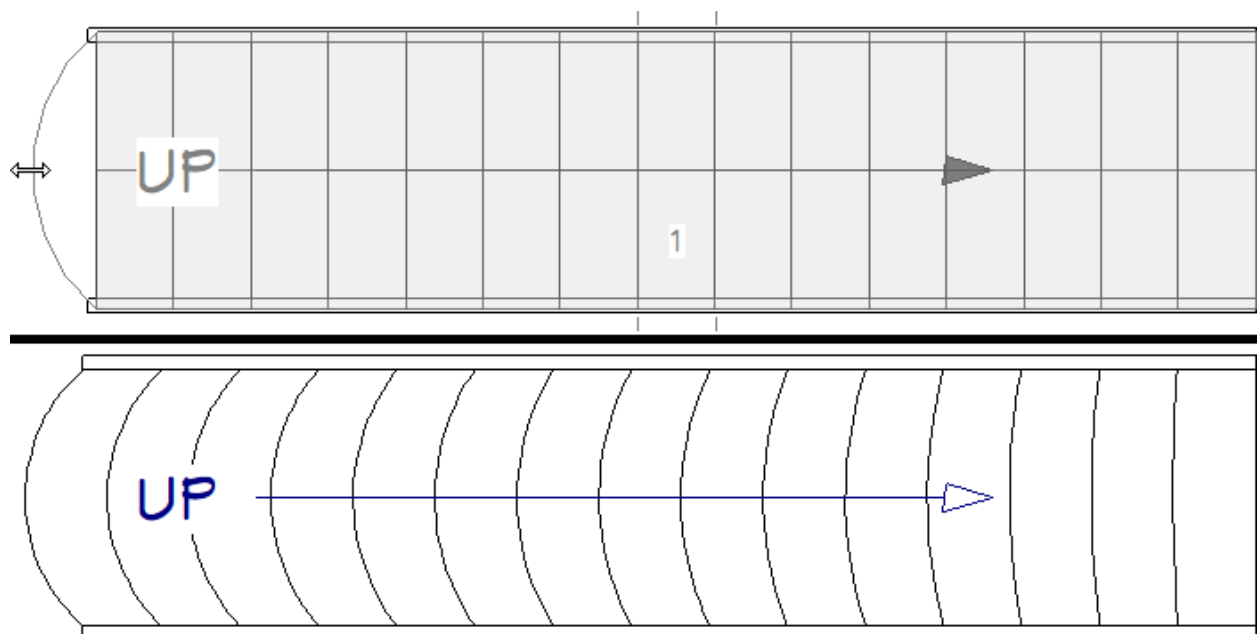
Use the dimension information that displays in the Status Bar as a reference to create symmetrical flares on both sides.

- The handles located at the center of the staircase allow you to control the origin of the flare on each end of the stairs.



Only exposed sides of a stair section can be flared. If one side of a stair section is against a wall or wrapped, only the exposed end can be flared.

- The handles that display along the short edges of the staircase are used to create curved risers.




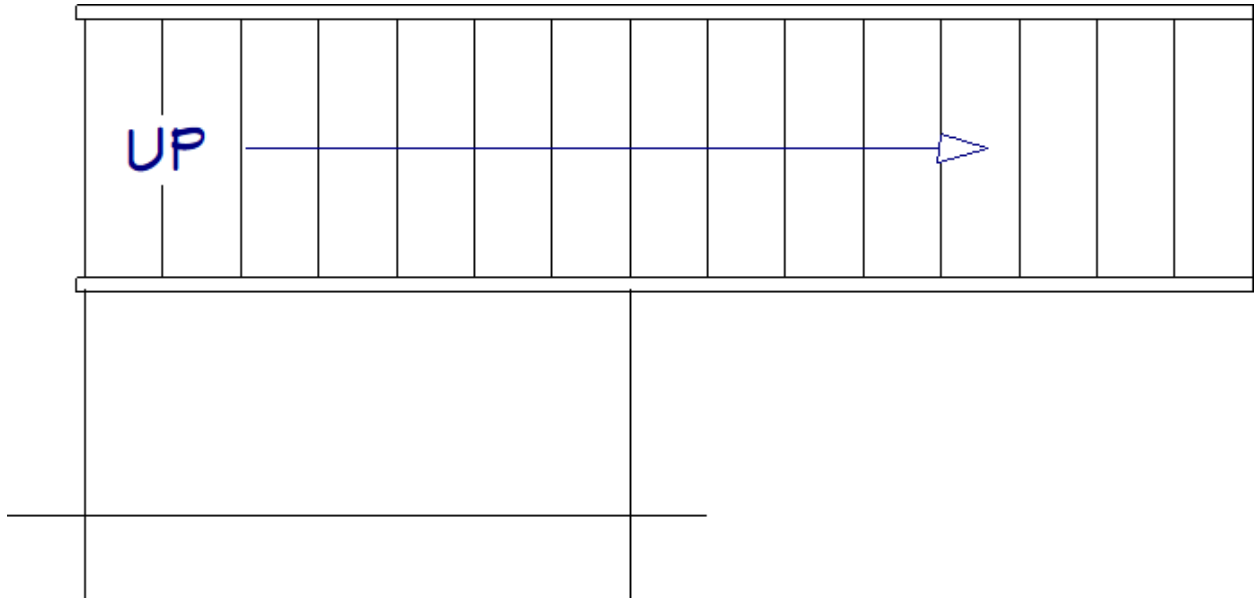
When treads are curved, all treads in the section show some degree of curvature. Treads close to the curved end have a greater curve than those at the opposite end, but both ends can be curved.


To create a flare with specific measurements

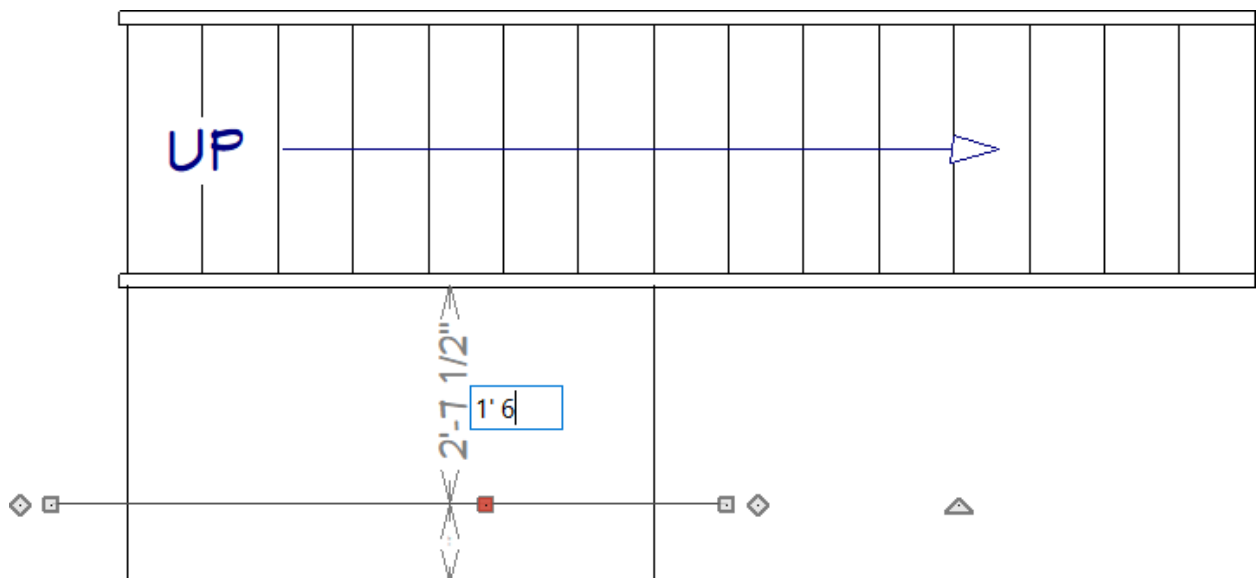
If you would like to create a flare with a specific chord and radius, first draw the desired arc using the CAD drawing tools for use as a reference. While it isn't possible to specify a staircase with this exact information, you can model it closely and display an annotation with the desired measurements


The steps below describe how the arc of a flare can be defined. The same tools can be used to define the arc of a curved tread, as well.

1. Create a staircase as described in Steps 3 and 4, above.
2. Select **CAD> Lines> Draw Line**  from the menu, then click and drag three lines:
 - One line extending from the front edge of the stairs.
 - A second line running parallel to the edge you wish to flare.
 - A third line running parallel to the first but closer to the staircase center.

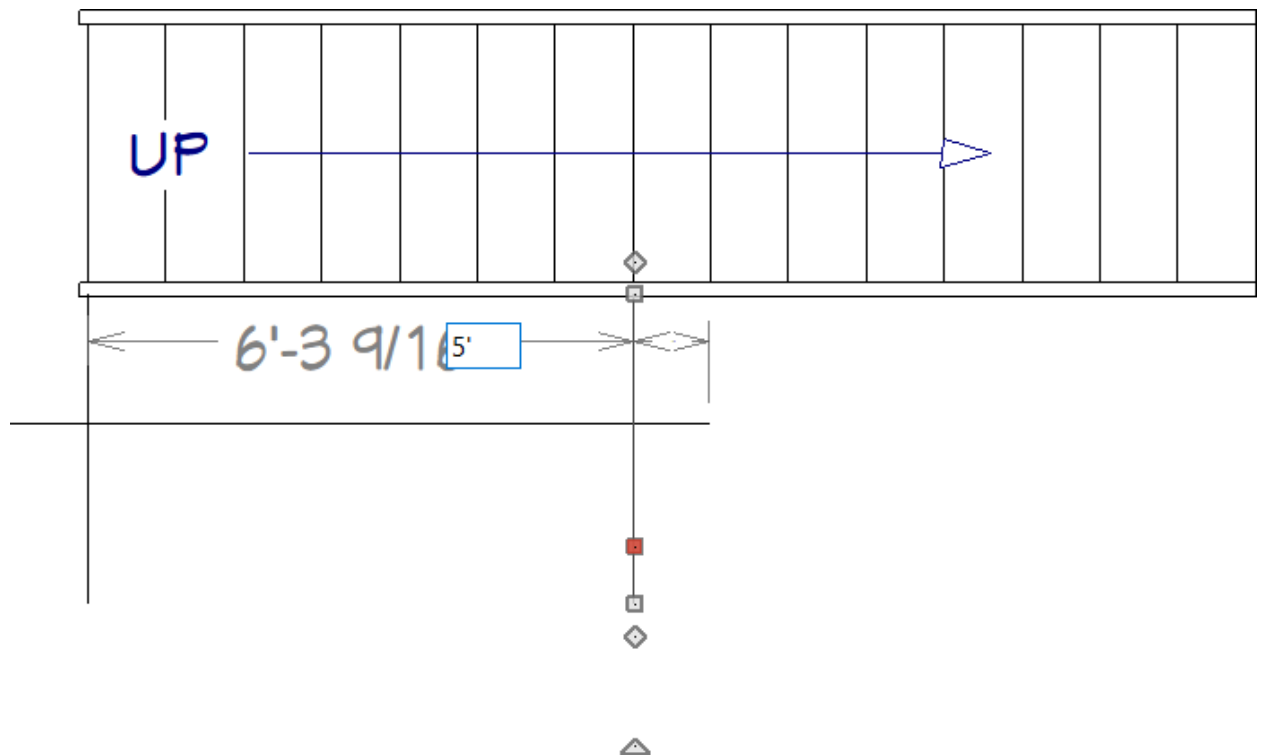



3. Click on the second CAD line, running parallel to the stair edge, move you mouse over the dimension until the **Pointer**  cursor displays, then click on the temporary dimension that displays.
 - o In the **Move Object Using Dimension** in-line text box, specify the desired distance that you would like the flare to extend at its widest point, then click **Enter** on your keyboard to move the line the specified distance from the stairs.

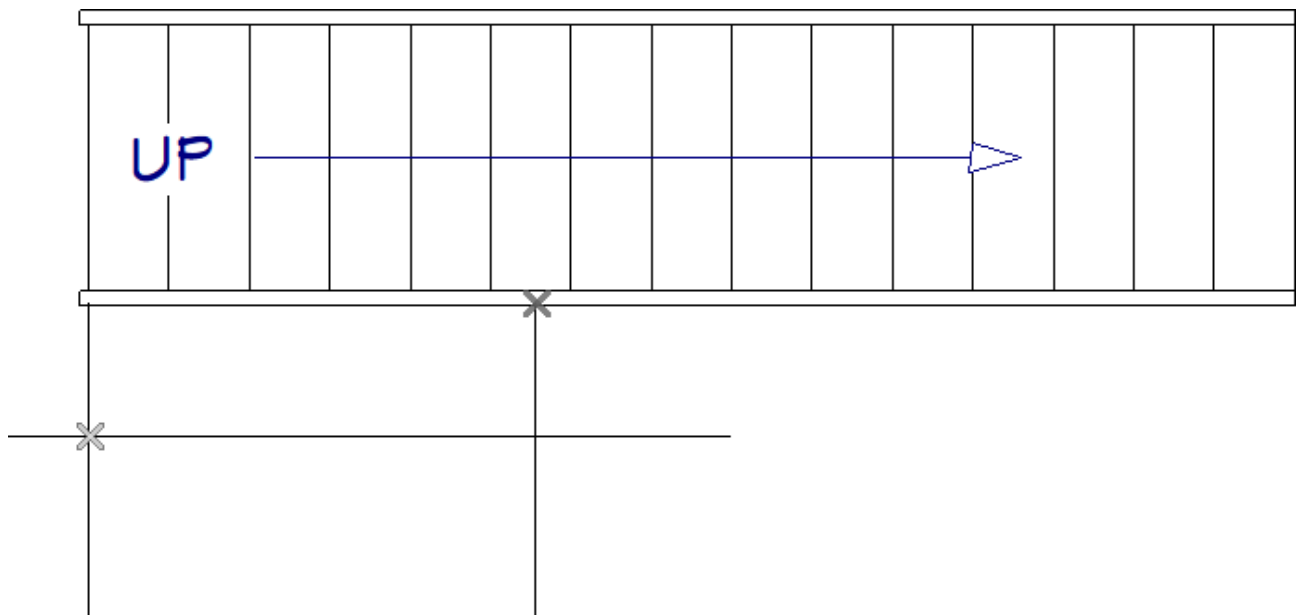



- o If a temporary dimension does not display when you click on the line, either it is not exactly parallel to the stairs, or Temporary Dimensions are toggled off. Select **View> Temporary Dimensions**  from the menu to turn this feature on, then try again.
- o Repeat this process with the third line drawn in step 3, this time specifying the




length down the stairs that you would like the flare to extend.

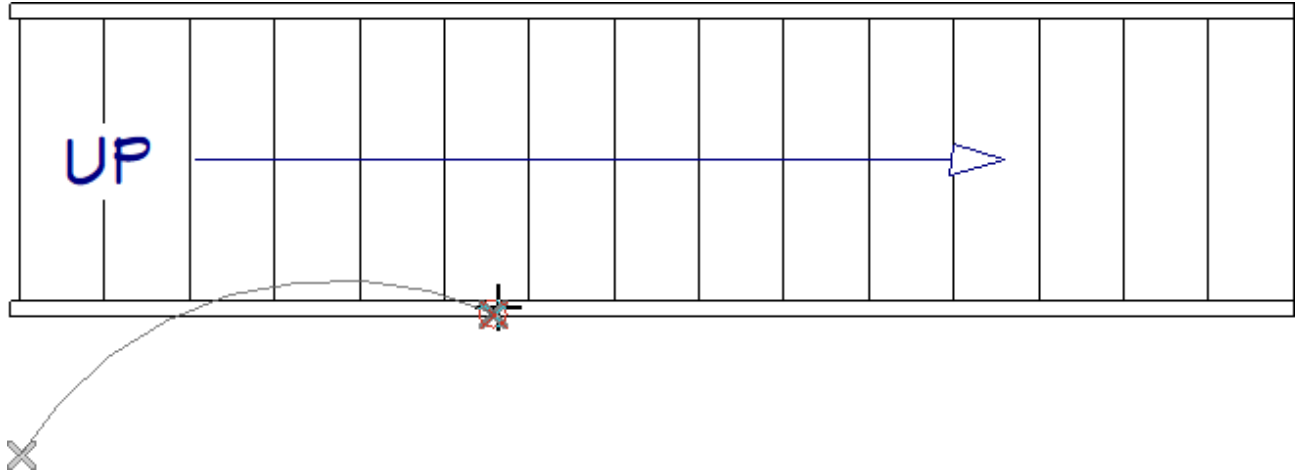



4. Select **CAD> Points> Place Point**  from the menu, then click once at the point where the first and second lines meet, and once where the third line meets the edge of the staircase.

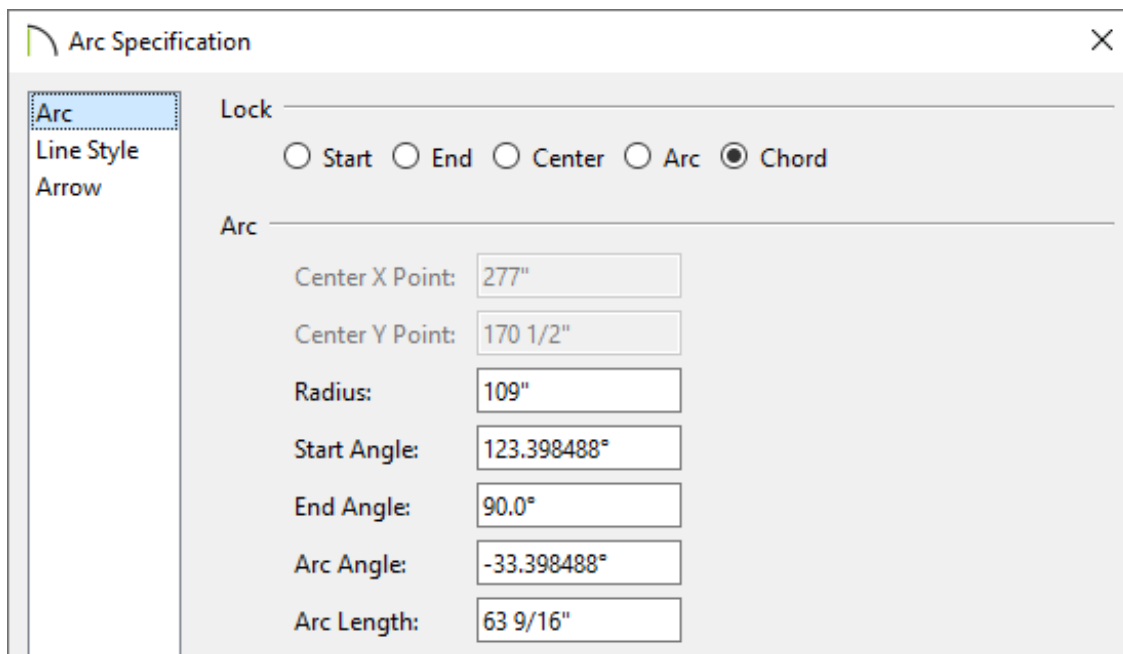


- These two points indicate where the flare's arc will begin and end.
- For accurate placement, be sure that **Object Snaps**  are enabled.

- Using the **Select Objects**  tool, click on each of the CAD lines drawn in Step 3 and **Delete**  them.
- Select **CAD> Arcs> Draw Arc**  from the menu, then click and drag an arc beginning on one CAD point and ending on the second one.

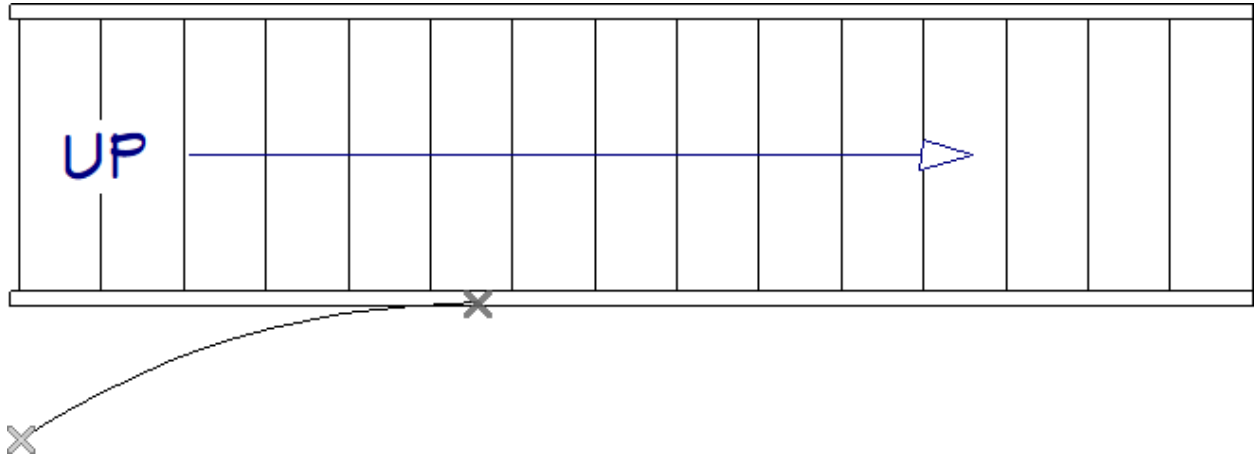


- Click on the arc to select it, then click the **Open Object**  edit button.
- On the **GENERAL** panel of the **Arc Specification** dialog:



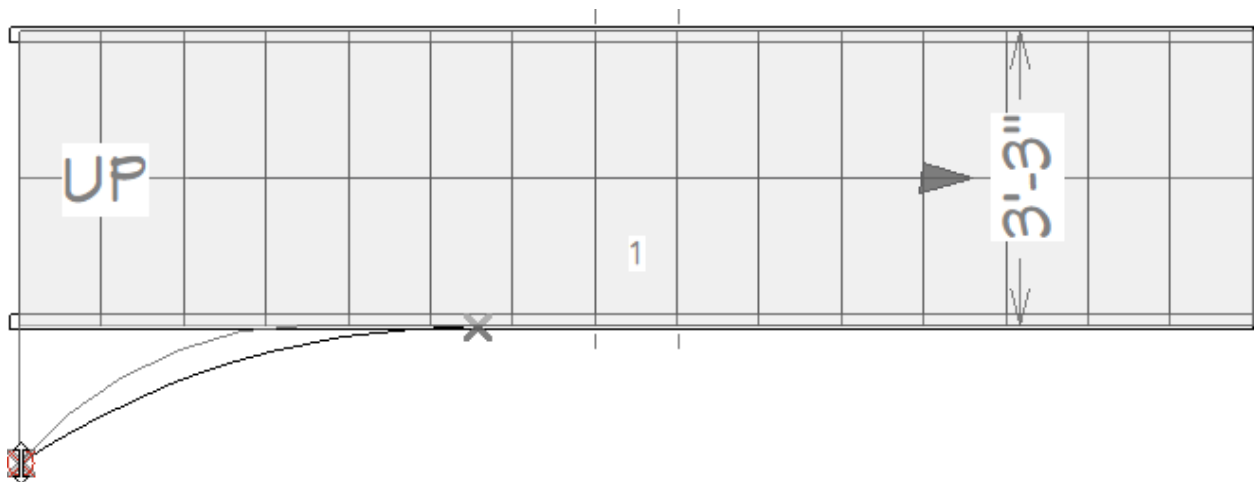
- Click the radio button beside **Chord** to lock the arc's direction.
- Specify the desired **Radius** or **End Angle** for this arc.

- Click **OK** to close the dialog and apply your change.

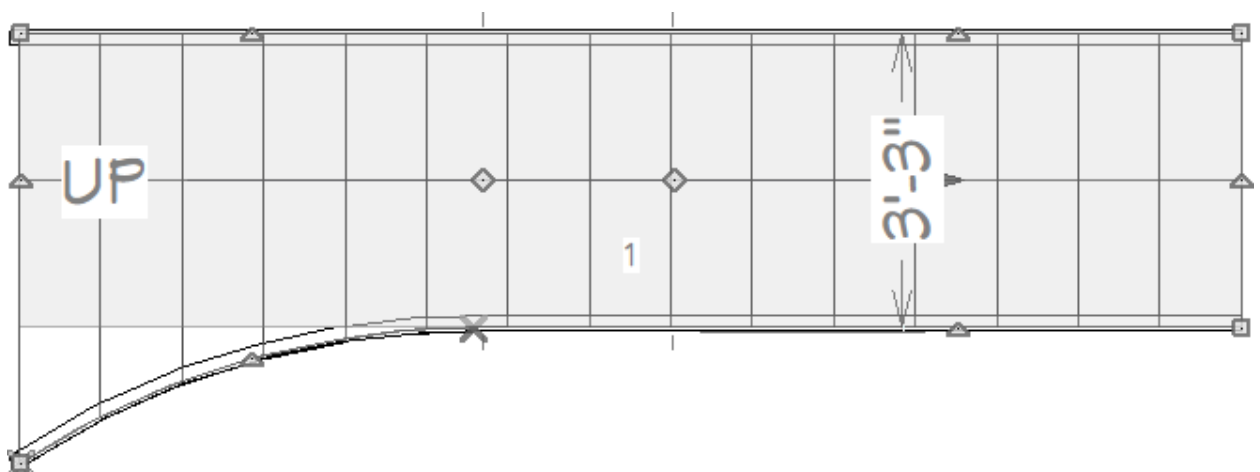


9. Click on the staircase to select it, then click the **Flare/Curve Stairs**  edit button.

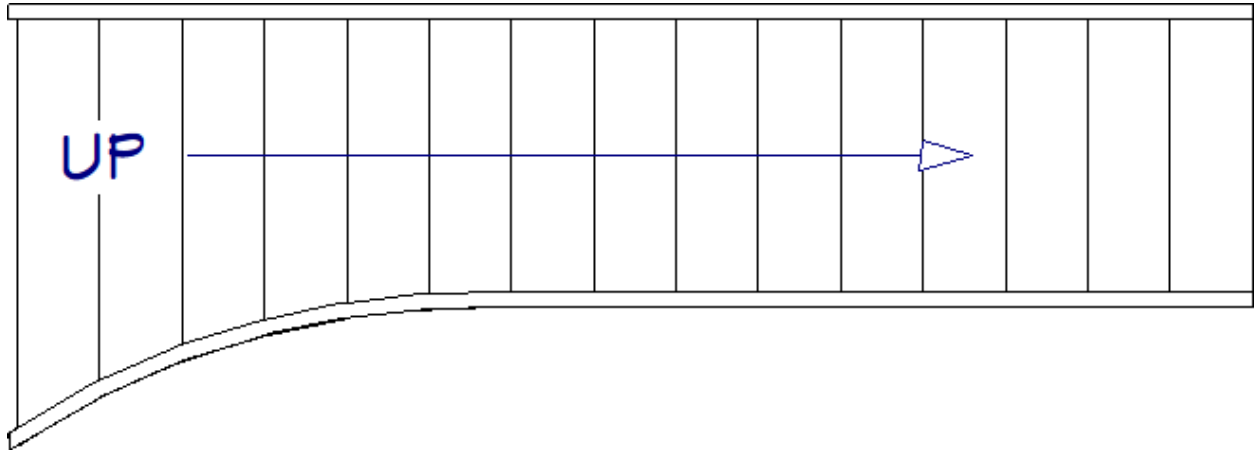
- Use the flare edit handle to extend the front edge to meet the CAD point.





- Use the side and center edit handles closest to the flare to adjust its curve so that it closely matches that of the CAD arc.



- Once the flare is exactly to your liking, de-select the staircase.





10. Select **CAD> Points> Delete Temporary Points**  to delete the points.
11. To display the length of the chord and its radius, select the CAD arc, click the **Open Object**  edit button, and on the **LINE STYLE** panel of the **Arc Specification** dialog, check the box beside **Show Length**, then click **OK**.

Note: You may want to move the arc away from the edge of the staircase flare so the length information doesn't display over the stairs.


If you'd like, you can also change the arc's Color to your background color so that it is not visible.

Related Articles

-  [Creating Curved or Spiral Staircases \(/support/article/KB-00477/creating-curved-or-spiral-staircases.html\)](/support/article/KB-00477/creating-curved-or-spiral-staircases.html)
-  [Modifying the Display of Stairs in Plan View \(/support/article/KB-03036/modifying-the-display-of-stairs-in-plan-view.html\)](/support/article/KB-03036/modifying-the-display-of-stairs-in-plan-view.html)



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