

Practice 5c

Work with Additional Modify Tools

Practice Objective

- Align, Split, Trim/Extend, and Offset elements.

In this practice, you will use **Split** and **Trim** to clean up existing walls in a project. You will then offset the entire foundation from the centerline, Figure 5-75, where it can support an architectural brick facade.

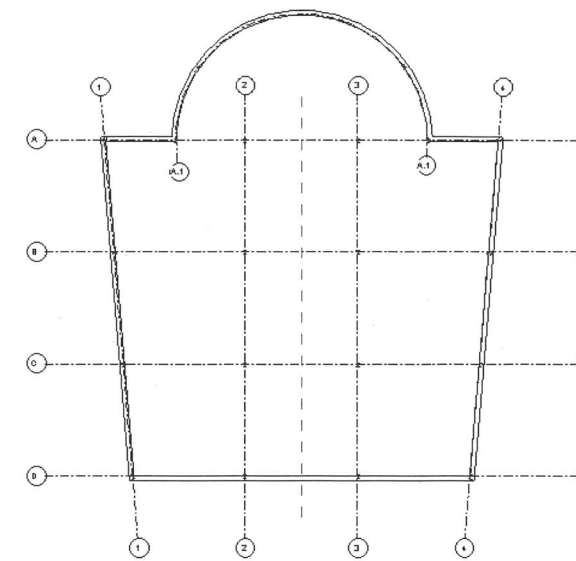



Figure 5-75

Task 1: Split and trim elements.

1. Open **Structural-Modify-M.rvt** from the practice files folder.
2. The file should automatically open to the **Structural Plans: Level 2** view.
3. Select the foundation wall on grid line **A**. In the *Modify | Walls* tab>Modify panel, click  (Split Element).

4. Select the intersection of the reference plane and grid line A, between grid lines 2 and 3, as shown in Figure 5-76.

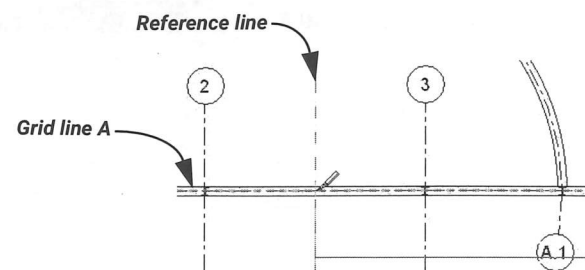




Figure 5-76

5. Click  (Modify) to end the command.
6. Connect the arc foundation wall on grid line A.1 with the foundation wall on grid line A by going to the *Modify* tab > *Modify* panel and clicking  (Trim/Extend to Corner).
7. Select the horizontal wall along grid line A on the left side of the arc, as shown in Figure 5-77.
- Remember to select the side of the wall that you want to keep.

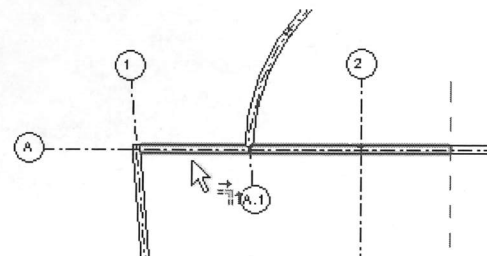


Figure 5-77

8. Select the arc wall. The walls are trimmed and joined together and the excess wall is deleted (the before and after are shown in Figure 5-78).

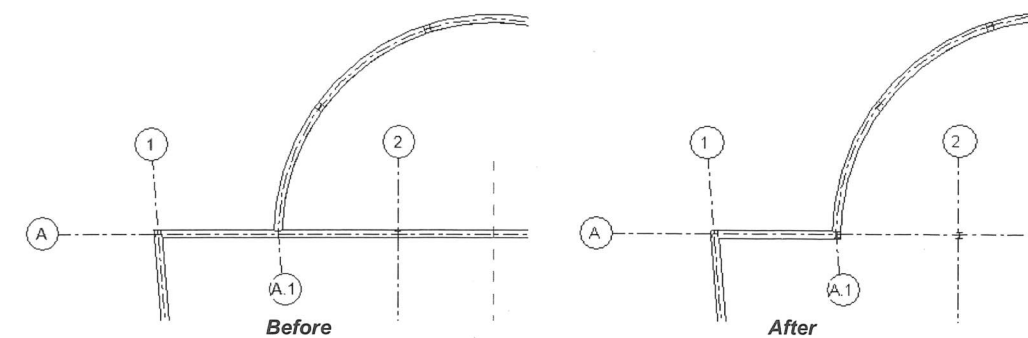



Figure 5-78

9. Repeat the process on the other side.
10. Save the project.

Task 2: Offset foundation walls.

1. Offset all of the foundation walls by going to the *Modify* tab > *Edit* panel and clicking  (Offset).
2. In the Options Bar, select **Numerical**, set the *Offset* to **100mm**, and clear the **Copy** option, as shown in Figure 5-79.

☐ Graphical ☒ Numerical Offset: 100.0 ☐ Copy

Figure 5-79

3. Hover the cursor over one of the foundation walls but do not select the wall. The blue alignment line should display on the inside of the wall and above the grid line, as shown in Figure 5-80.

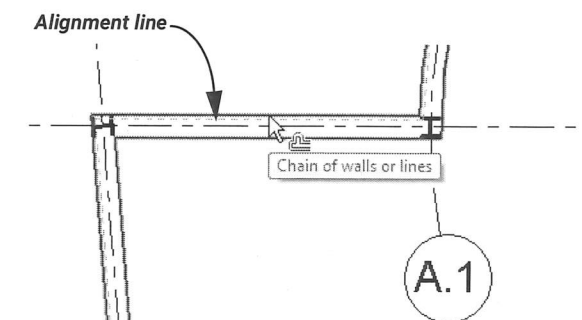


Figure 5-80

4. Press <Tab> until all of the foundation walls are highlighted, meaning they are all selected, and click to offset the walls 100mm, as shown in Figure 5-81.

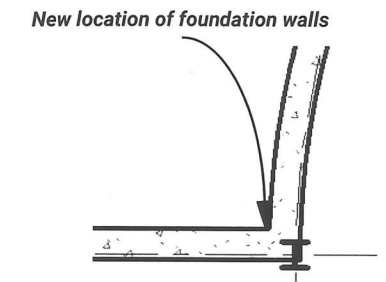



Figure 5-81

5. Click  (Modify).
6. Save and close the model.

End of practice