

Exercise - Drawing Layout

In this exercise, a component part will be displayed in first angle projection to scale, annotation added and the Title Block completed in readiness for printing, all based on the default ISO template.

- 1 Ensure **Autodesk Inventor Professional** is loaded and ready for use.



- 2 Expand the folder called **Section 7-1** and **Open** the file called **Exhaust Flange Exercise.ipt**, then immediately **Save As...** under the filename of **Exhaust Flange.ipt** to preserve the original file for other users (replace if necessary).

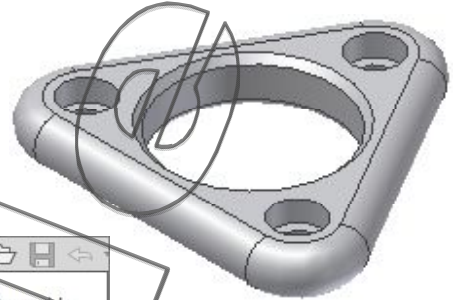


Figure 01 Exhaust Flange.ipt



- 3 Click the down-arrow on the **New** button on the **Quick Launch Toolbar** and select **Drawing** to enter the **Drawing Environment** (previously setup for use with an ISO template)

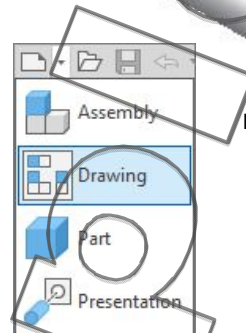


Figure 02 Drawing

- 4 By default, the **Sheet** (paper) size is ISO A3 landscape. This needs changing to **A4 landscape**.

On the **Model** panel browser, right-click on **Sheet:1** and from the pop-up menu, click on **Edit Sheet...** to display the **Edit Sheet** dialog box.

- 5 Change the **A3** size to **A4** from the drop-down list. Ensure **Landscape** and the **right-bottom corner Orientation** is selected, then click the **OK** button.

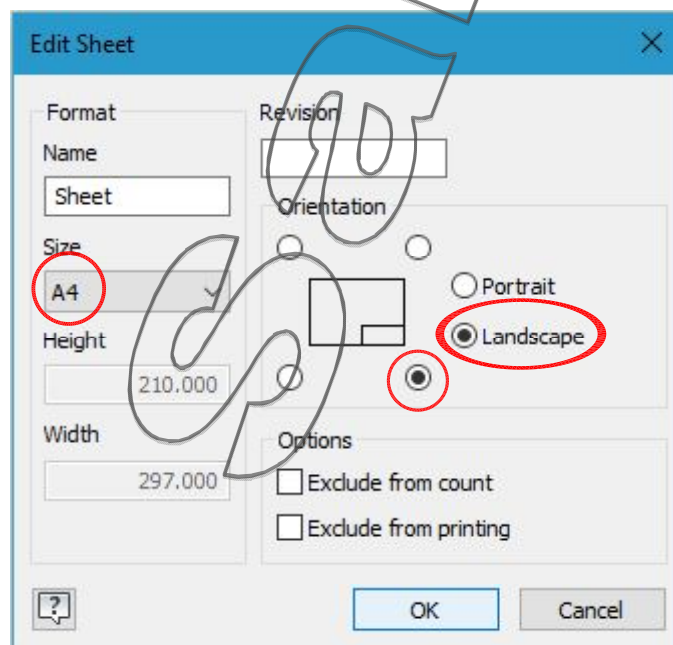
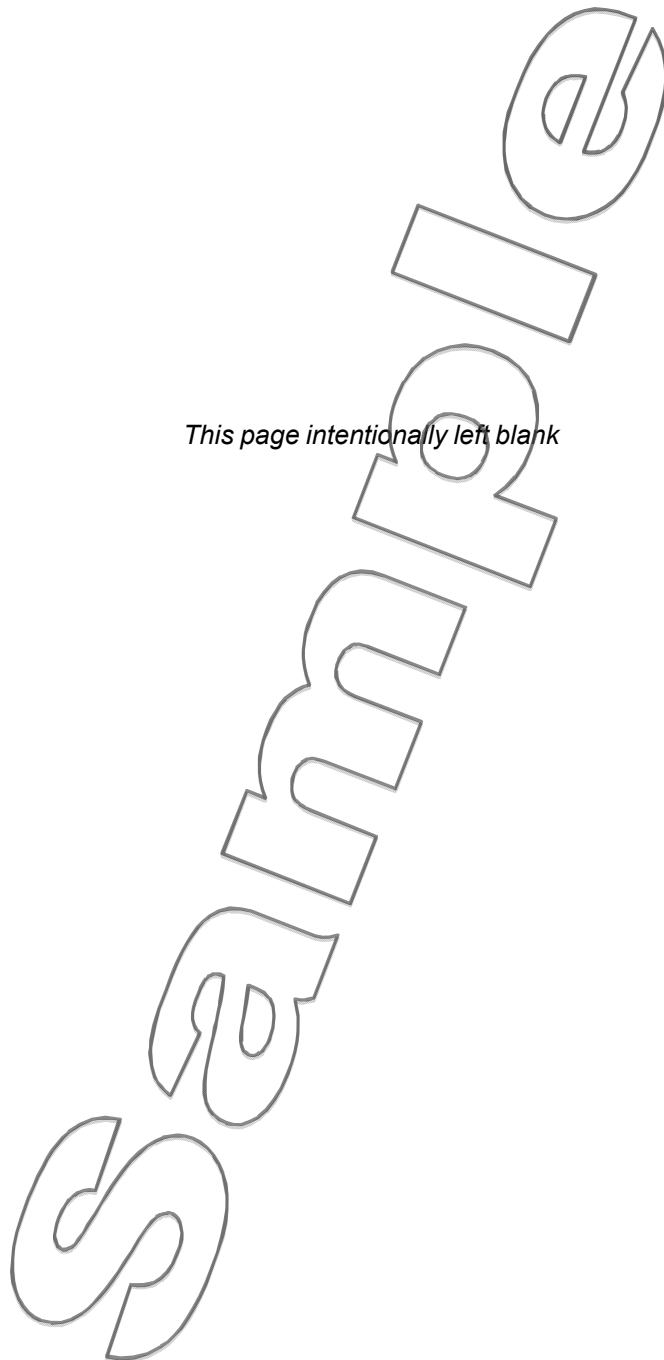


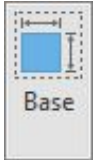
Figure 03 Edit Sheet (A4 Size)



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7.2 Control the appearance of the views within a layout

Drawing Layout Exercise Continued...



- On the **Ribbon > Place Views** tab > **Create** panel, click the **Base** tool to dynamically show the component centrally placed in the drawing and also displays the **Drawing View** dialog box (move the dialog box if necessary to see where to place the view).
- In the dialog box, ensure the **Scale** is set to **half-size (1/2)** by selecting from the drop-down list (if necessary) and ensure **Hidden Line** is selected under **Style**, then drag this **Front View** (VIEW 1) of the **Exhaust Flange** to a similar position to that shown in Figure 04 and click **OK**.

Note: The view orientation can be changed through use of the **ViewCube**.

Note: By dragging the mouse horizontally, vertically or diagonally, the projected views may also be placed.

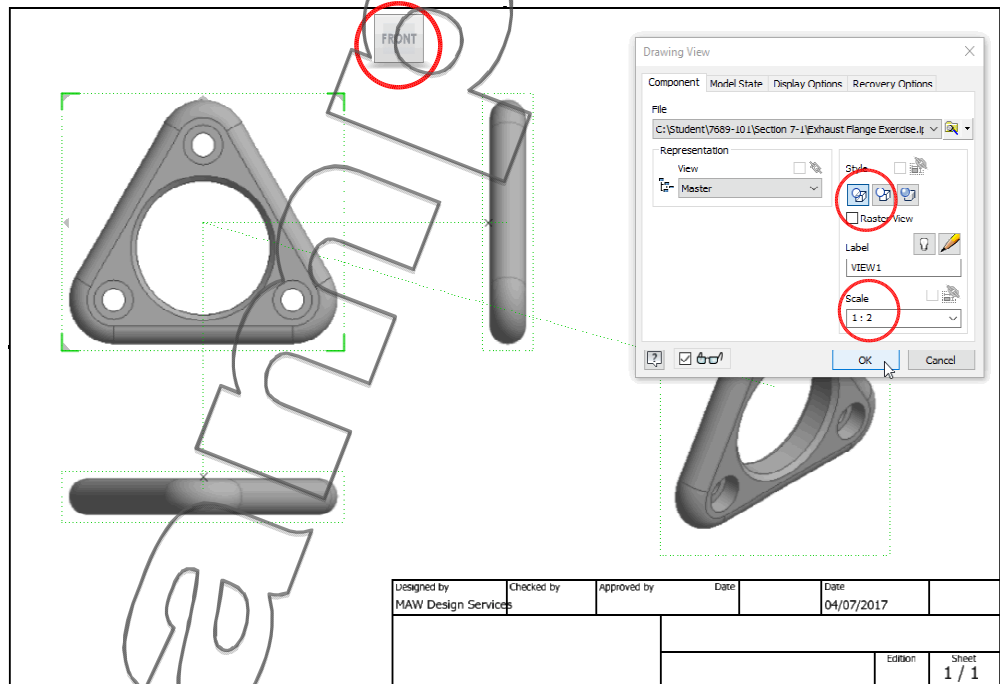


Figure 04 Base View



- On the **Ribbon > Place Views** tab > **Create** panel, click **Projected** and click on the View, then drag the mouse vertically downwards and click to create a **Plan (Top) View** below the **Front View**.

Still in the same command, drag the mouse horizontally out to the right from the existing **Front View** and click to create an **End View**.

Still in the same command, drag the mouse diagonally down to the right of the existing **Front View** and click to create an **Isometric View**.

Right-click on the drawing and from the **Marking** menu, click **Ok (Enter)** to produce the three 2D views in **First Angle Projection** (see overpage) and an **Isometric View**.

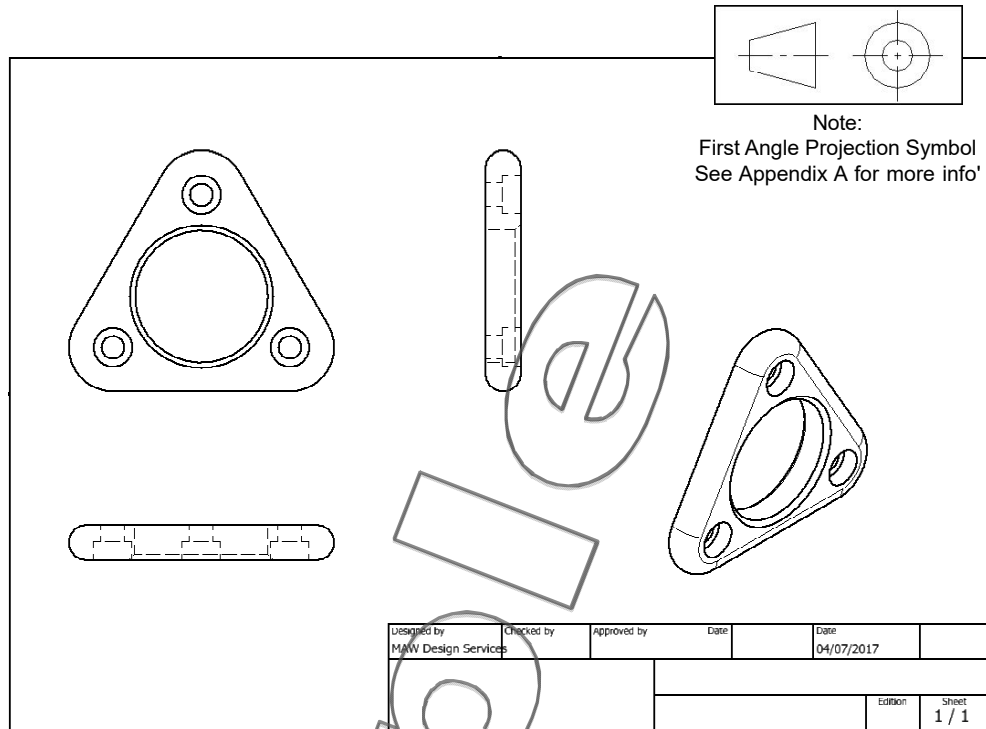


Figure 05 First Angle Projection and Isometric View at 1:2 Scale

- 9 Double-click on the **Isometric View** to call up the **Drawing View** dialog box.

Change the **Scale** from half-size (1:2) to **full-size (1:1)** and under **Style**, select the **Hidden Line Removed** and **Shaded** buttons, then click **OK**.

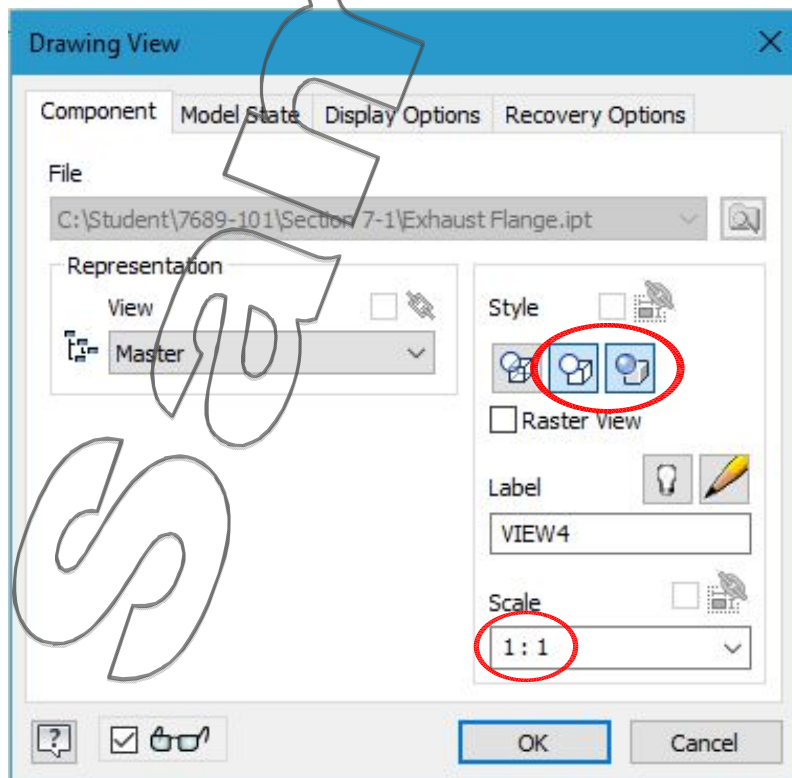


Figure 06 Drawing View

- 10 Select the **Isometric View** by picking its rectangular dotted frame and dragging it to re-position similar to that shown in Figure 07.

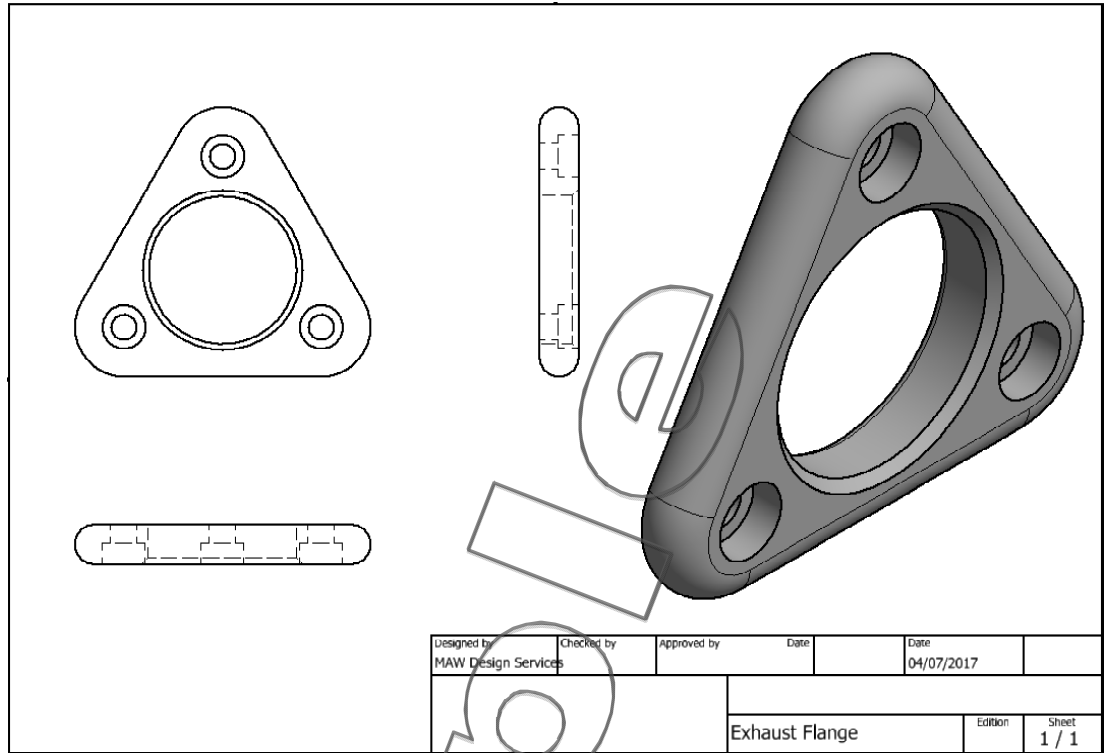


Figure 07 First Angle Projection and Isometric View



- 11 **Save** the drawing file as **Exhaust Flange.idw** (replace if necessary).

Note: Saving the drawing file will automatically placed the file name in the **Title Block** (under the **Part Number:** label if modification required - see Figure 22).

Designed by MAW Design Services	Checked by	Approved by	Date	Date 04/07/2017
			Exhaust Flange	Edition Sheet 1 / 1

Figure 08 Title Block