

Planter Project Plans and 2 x 4 Challenge

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This plan was designed by ChezCraft Artisan Creations to meet a local woodworking craft challenge. This whole unit is cut from a single piece of 2"x 4"x 8' SPF lumber. Not intended for commercial usage. Plans are provided free of charge for personal use only. You may not redistribute or sell these plans without consent of ChezCraft Artisan Creations.

Section Dimensions

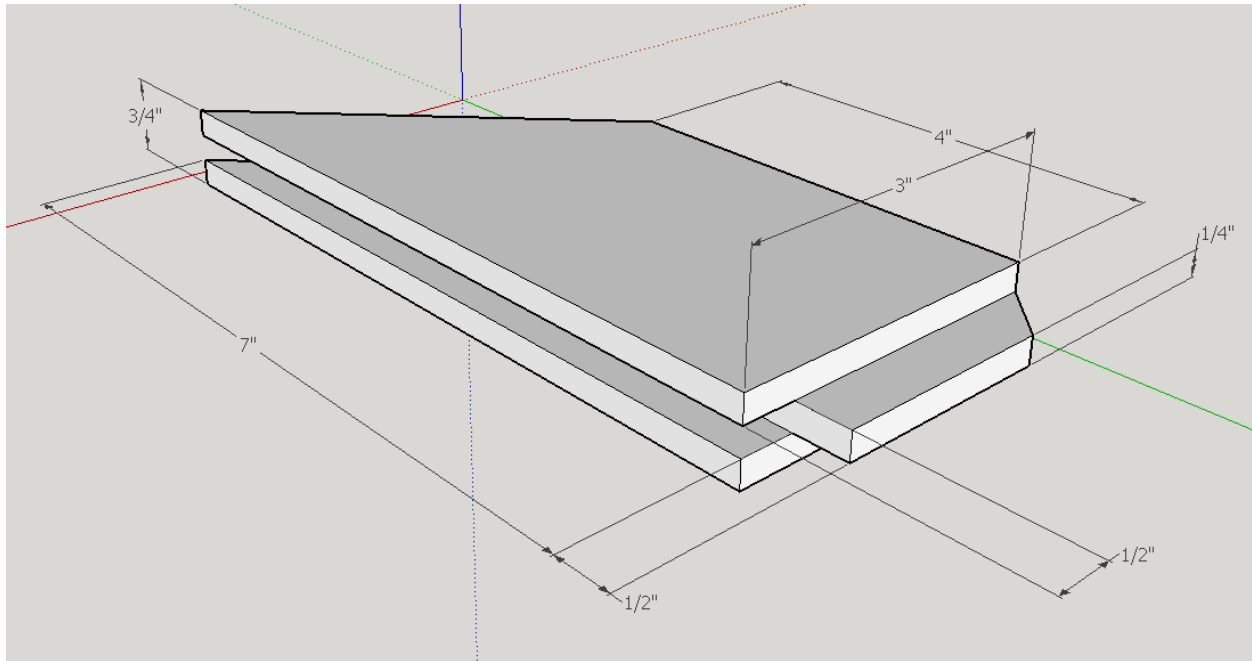


Figure 1

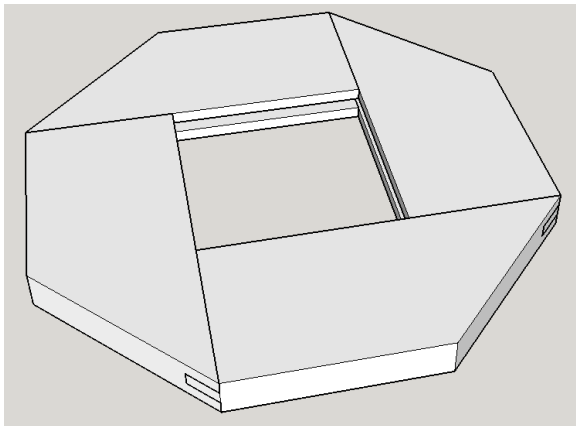


Figure 2

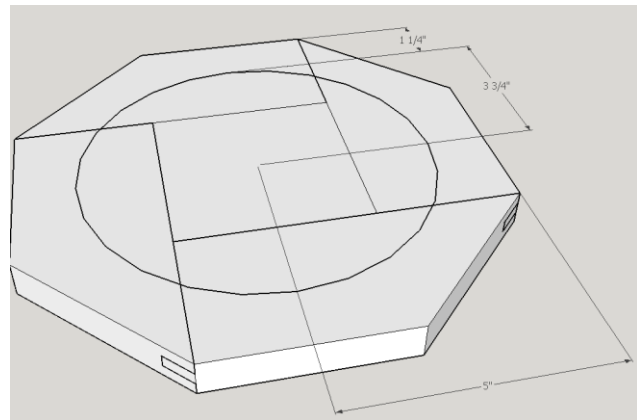


Figure 3

The shelf and support ring are created by cutting a rail-and-style type of structure from two pieces of $7\frac{1}{2}$ " x 3 " x $\frac{3}{4}$ " board (Fig. 1, 2). The angles of the main end and the small angle on the tenon are 45 degrees. The inside (tenon) section that goes in the middle is created by making a 5 " x 5 " block, cut with $\frac{1}{4}$ " x $\frac{1}{2}$ " tenons all around fitting into the inside slots of the outer ring. After gluing and drying, mark and cut out the $3\frac{3}{4}$ " radius inner circle shown here to create the lower shelf and the supporting ring. (Fig. 3)

See the illustration on the following page (Fig. 4) for details of cutting the parts of this shelf and supporting ring from a single 2x4. If you are not trying to cut from a single piece of wood, then making either the tenon or the ring from an alternate lighter or darker material will enhance the overall design.

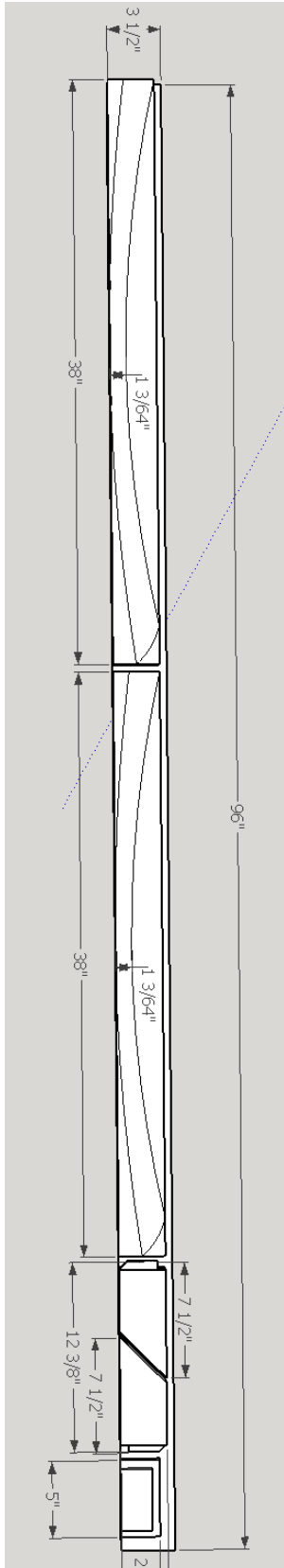


Figure 4

2 x 4 challenge

If you want to make this from a single 2 x 4, then the diagram shown here should provide the required cuts. Start out by cleaning up the ends of the 8' stud as necessary, then cut out the two 38" lengths from the best parts of the board.

Joint the sides of the 2x4 to 3" width to give you nice square edges to work with. Then re-saw the resulting boards down the middle.

Cut out one of the legs on your bandsaw or jigsaw based on the design shown below (Fig. 5). Smooth curves with a spokeshave or scraper until you have the shape you want and use that as a template for the others.

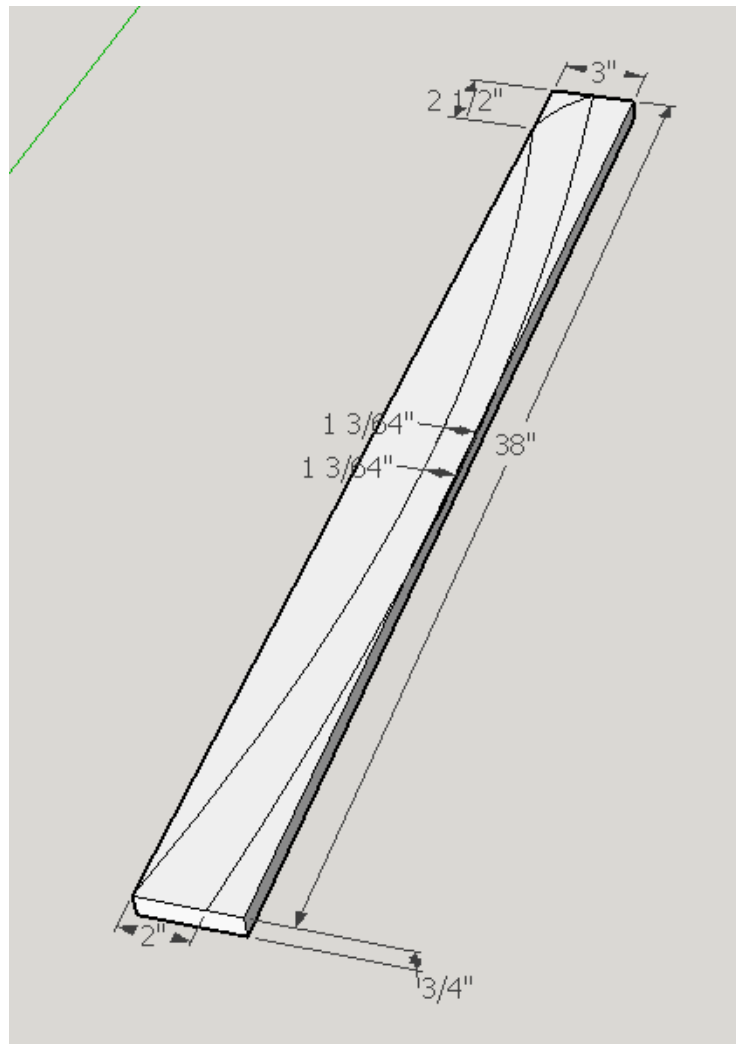
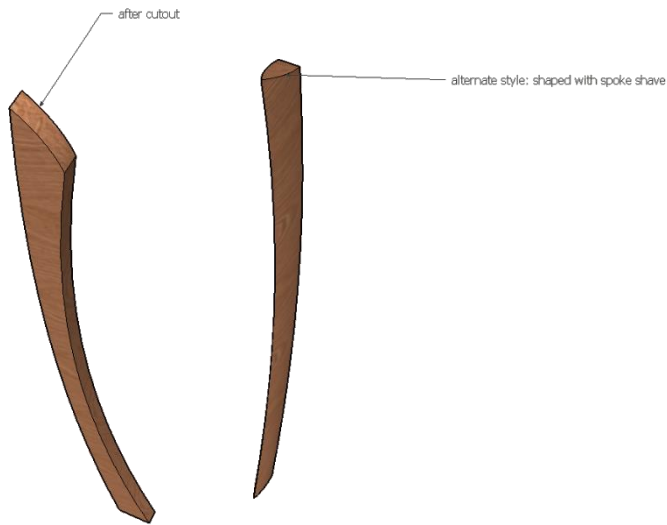


Figure 5

Use the template as a guide in your router table with a pattern bit to ensure accurate and consistent shapes.



After cutting out the leg, you can refine the shape as you like. An alternate design is shown in the illustration here.

Figure 6

Determine the placement of your lower shelf – I usually set it close to the narrowest part of the structure – about halfway up the leg. Cut $17/32''$ deep x $3/4''$ wide slots in the leg and the outside of the shelf as shown.

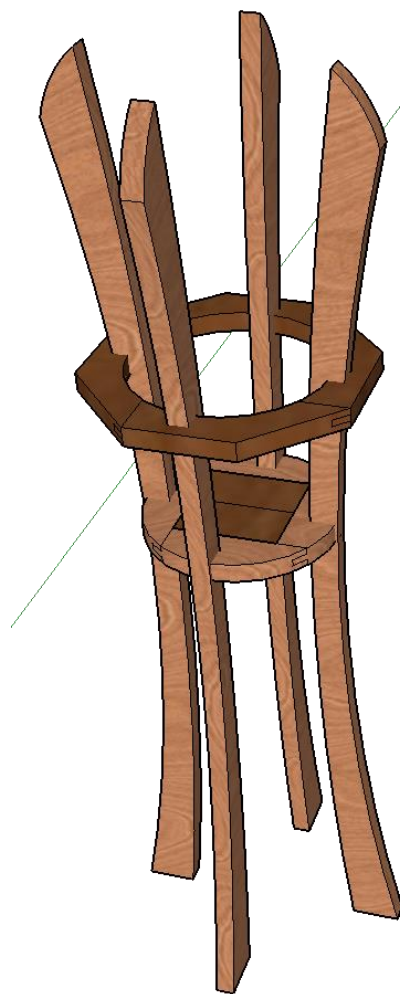
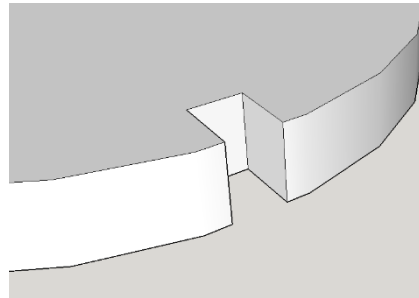
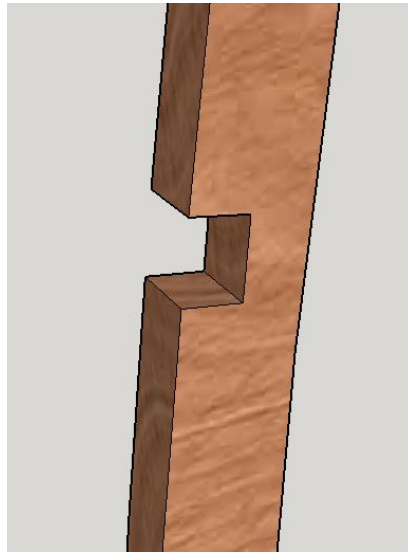


Figure 7



Temporarily fit the structure together using a band clamp or bungee cord to hold together. Determine where you would like the upper supporting ring. A distance of $5\frac{1}{2}''$ to $6''$ above the shelf will be ideal, allowing a small ($\sim 1/2''$) dado cut in the outside of the leg and the inside of the ring to provide a snug fit.



Use brads or dowels to support the joins of leg to shelf and ring, glue and set. You may need to adjust the cut of the bottom of the leg to ensure the stand sits flat on the floor. If doing the

2x4 challenge, allow the unit to settle a while before doing this so that any additional wood movement is minimized.