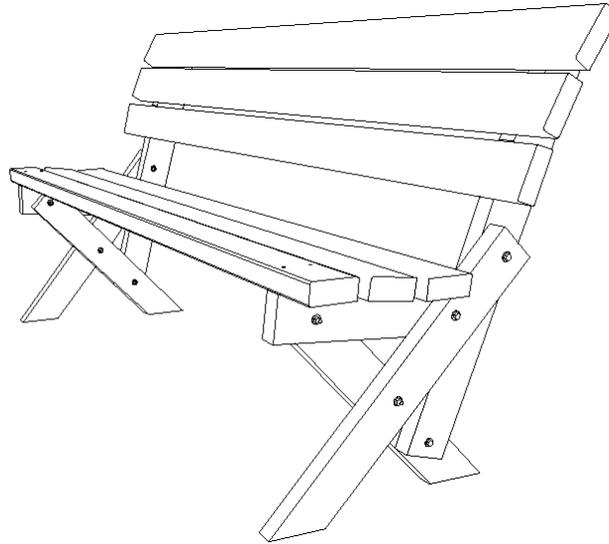


HOW TO MAKE THE DUDERSTADT BENCH



Materials:

2 x 4s (Kilm dried is preferable. \$2.18 each for 8 ft'ers at Home Depot)
6 pcs 6 ft long (or whatever length you want the bench to be up to 7 ft max) $\pm 1/8$ " (inspect for straightness as it does make for better sitting)

2 pcs 15"
2 pcs 23-7/8"
2 pcs 26-5/8"
2 pcs 30-1/4"
2 pcs 3-1/2"
 $\pm 1/16$ "

If you use 8 ft pieces and make the bench 6' long you will need 8 pieces.

5/16" Carriage Bolts
8 at 3-1/2"
2 at 5"
10 5/16-18 nuts and flat washers
#10 deck screws x 2-1/2" long, 24 pcs.

Needed Tools:

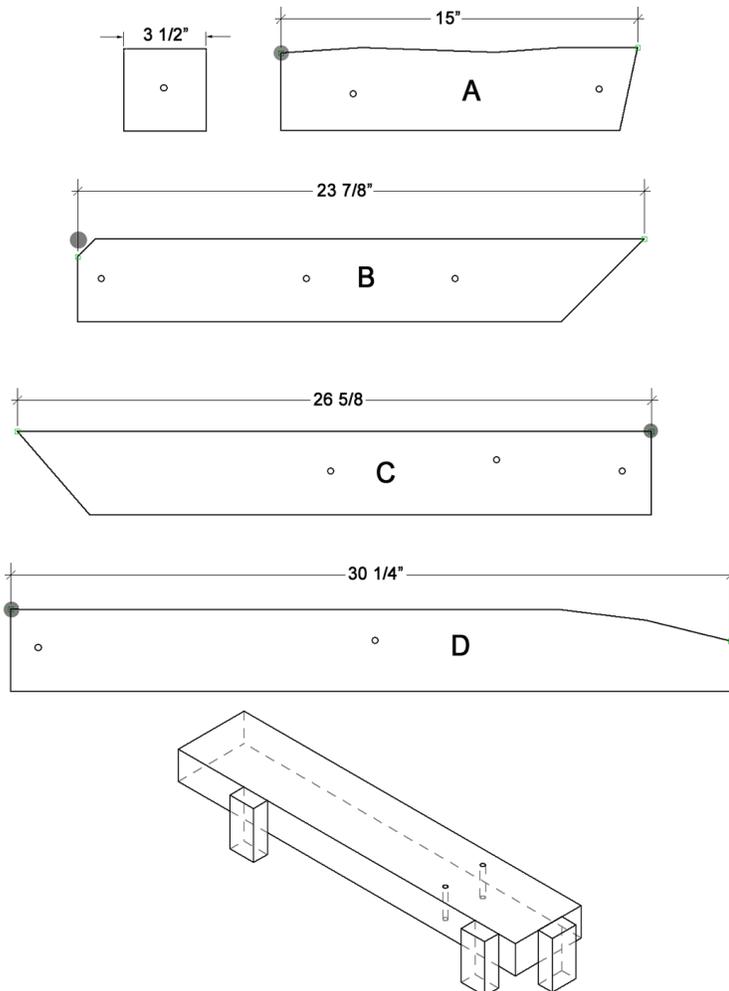
Jigsaw
Power Drill
6" screw clamps (two)
5/16" Dia Drill Bit
5/32" Dia. Drill Bit
Bench Template pieces (see page 3)

Fabrication:

With the pieces cut to length ($\pm 1/16''$) place the templates on the pieces and clamp together. As the actual dimensions of 2 x 4" varies widely from the 1.5" x 3.5" spec, line up the template and wood to the indicated reference corners as noted on the template drawing.

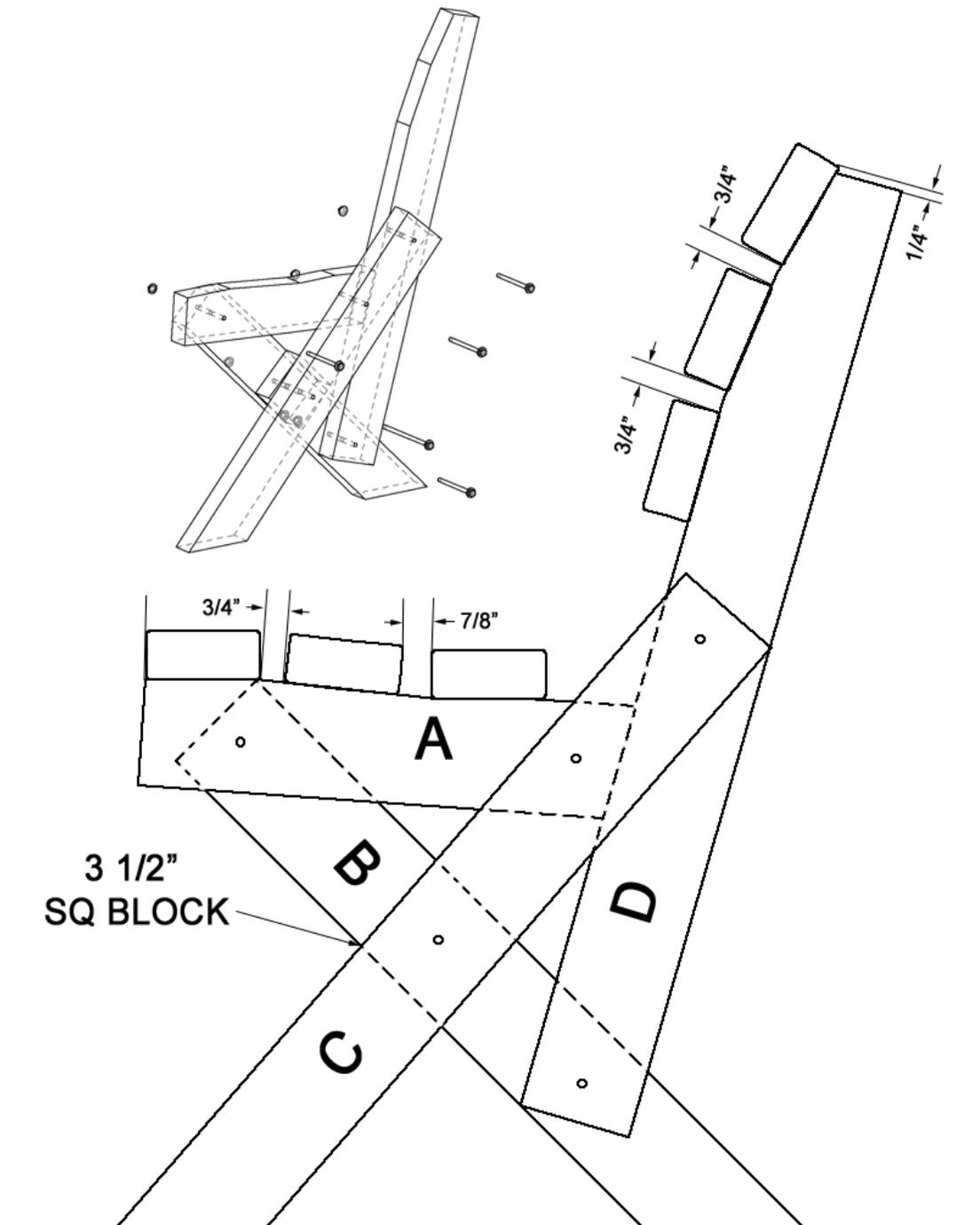
1. Drill through the $5/16''$ holes (*PLEASE let the drill stop rotating before placing the drill bit fully into the holes in the template, you will destroy the template otherwise*)
2. Take a ball point pen and mark the contours and angles.
3. Unclamp the templates and using the jigsaw, cut along the contours and angles just removing the ink marks. This is a critical part of the process so be sure you have lots of light and take your time. The cuts should be perfectly vertical.
4. Using the jig with side stops and two small holes, hold this on the ends of the long pieces and drill through the long boards with a $5/32''$ drill. Clamping is not necessary for these.

TEMPLATE PIECES



ASSEMBLY:

1. Using the carriage bolts assembly the two supports:
(symmetry is not essential on these for function)



Sit down and relax with a friend!

