

Large Scale Workbench

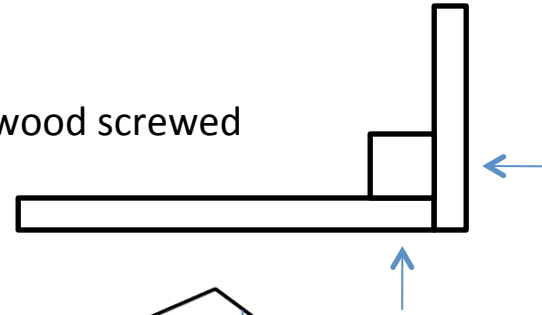
Plans from Garden Railway Magazine Article

By Jim Kottkamp

General Construction Notes

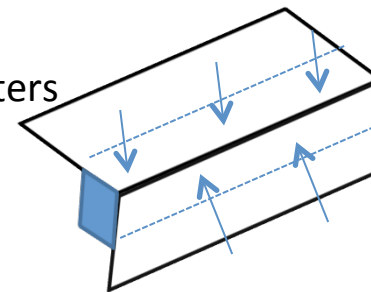
Note 1:

All joints between sheets of plywood have a $\frac{3}{4}$ inch piece of wood screwed and glued to both ends for added strength



Note 2:

Screws along all plywood joints are alternated on 4" centers



1 1/4" Flat head Wood Screws

Note 3:

All 1x4 , 1x3 and 2x4 boards joined to plywood are notched $\frac{1}{2} \times \frac{1}{2}$ on the edge glued and clamped together



Note 4:

Note: You can substitute $\frac{1}{2}$ plywood with $\frac{3}{8}$ to save weight and cost. Be sure to adjust the size of all adjoining panels by $\frac{1}{8}$ inch to compensate for the difference.

Note 5:

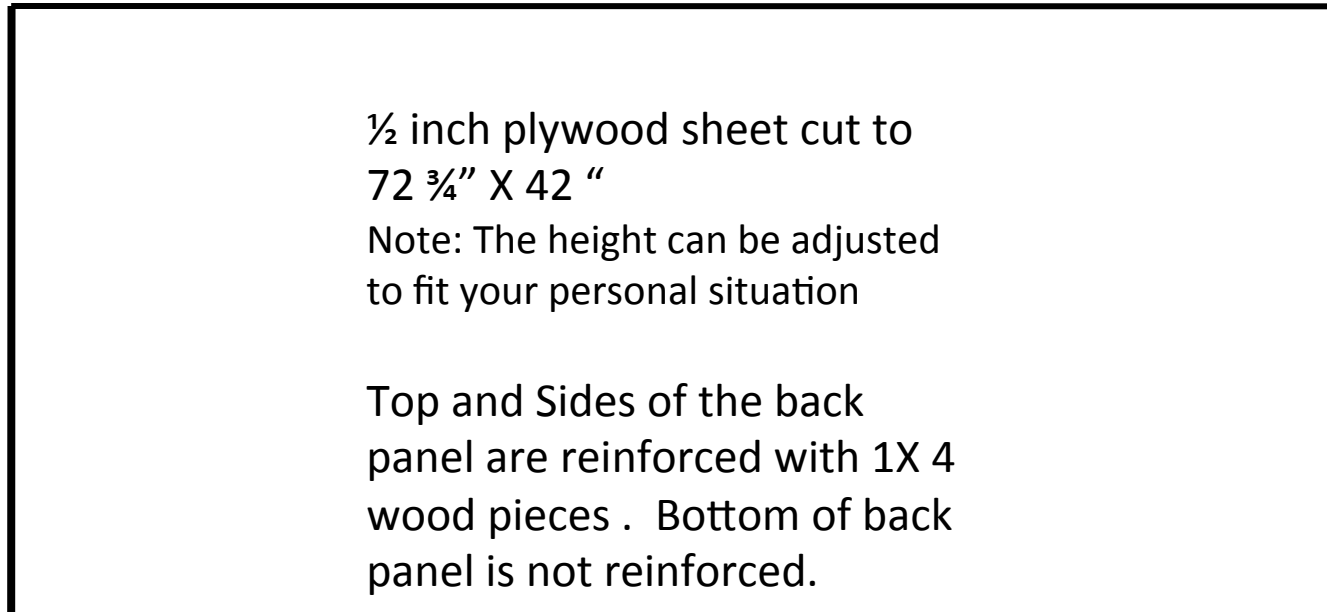
None of the drawings in this document are to scale. Dimensions are provided along with each part or panel.

Back Panel

Outside dimension is 73 ½ "

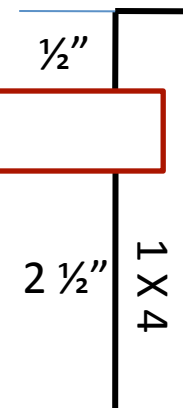
1X4
Wood
Frame

1X4
Wood
Frame



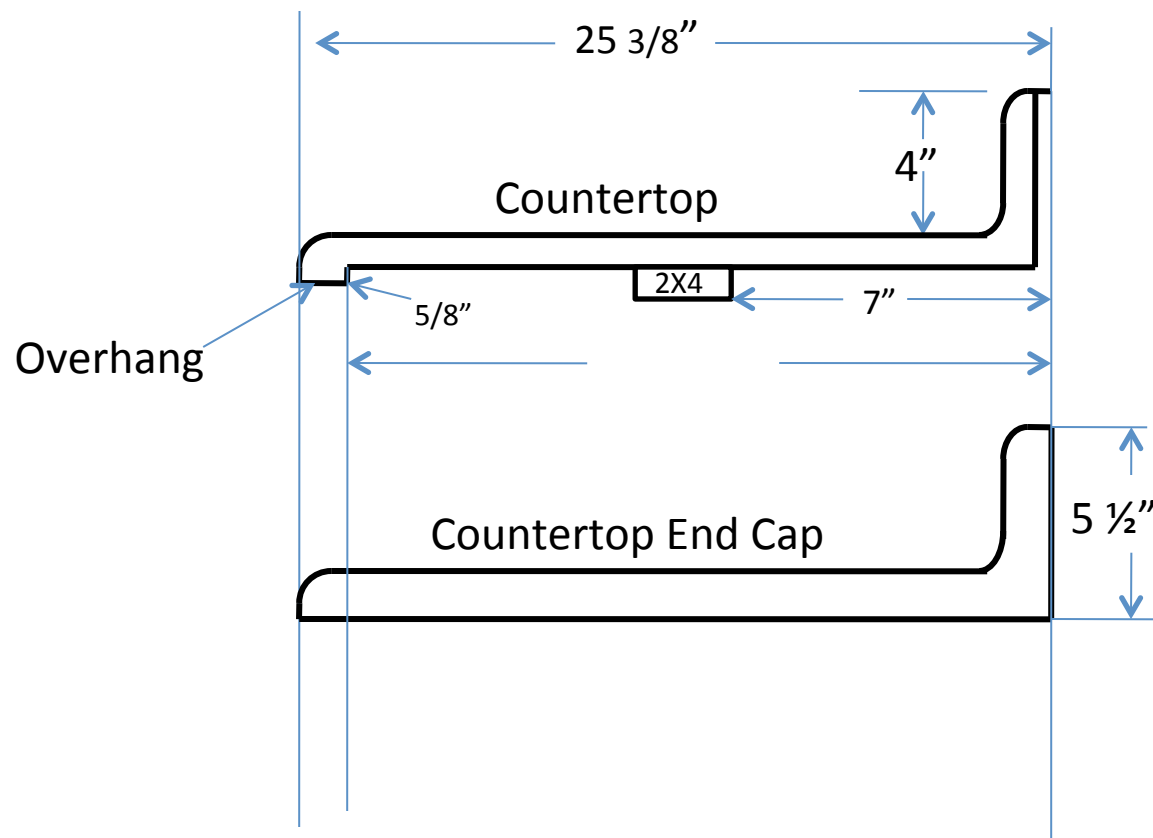
½" Plywood Back Panel

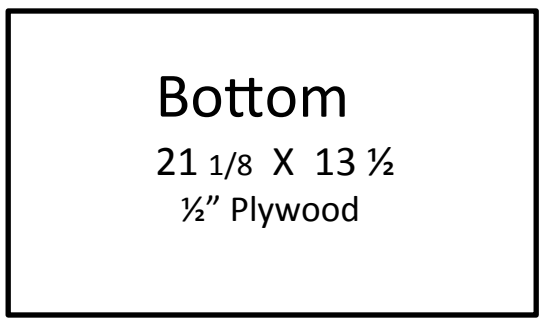
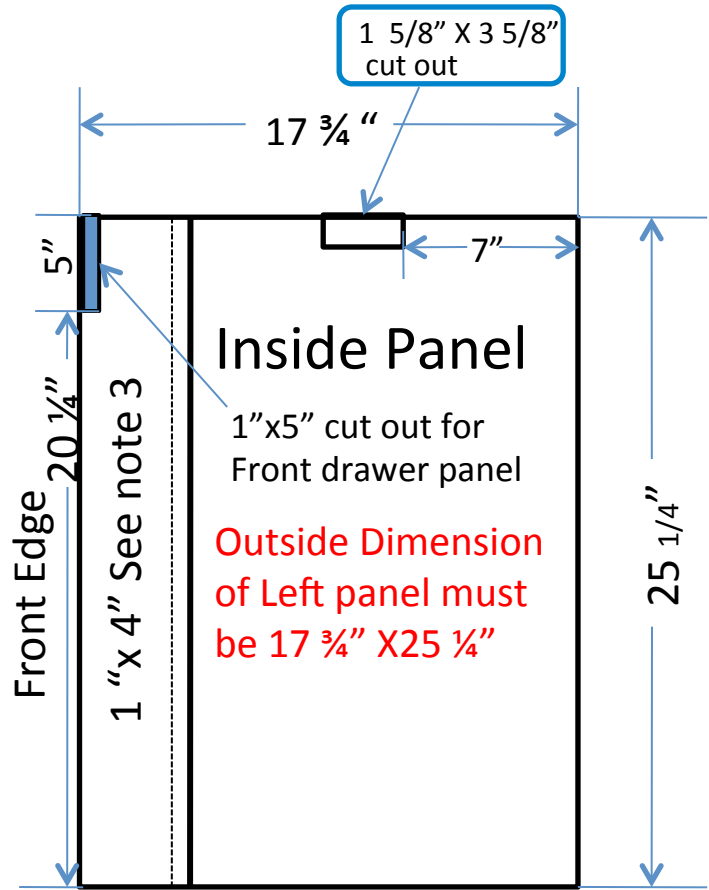
1 X 4 is cut on table saw to ½ inch depth by ¾ " wide. The plywood end fits inside this groove and are glued /clamped in place.



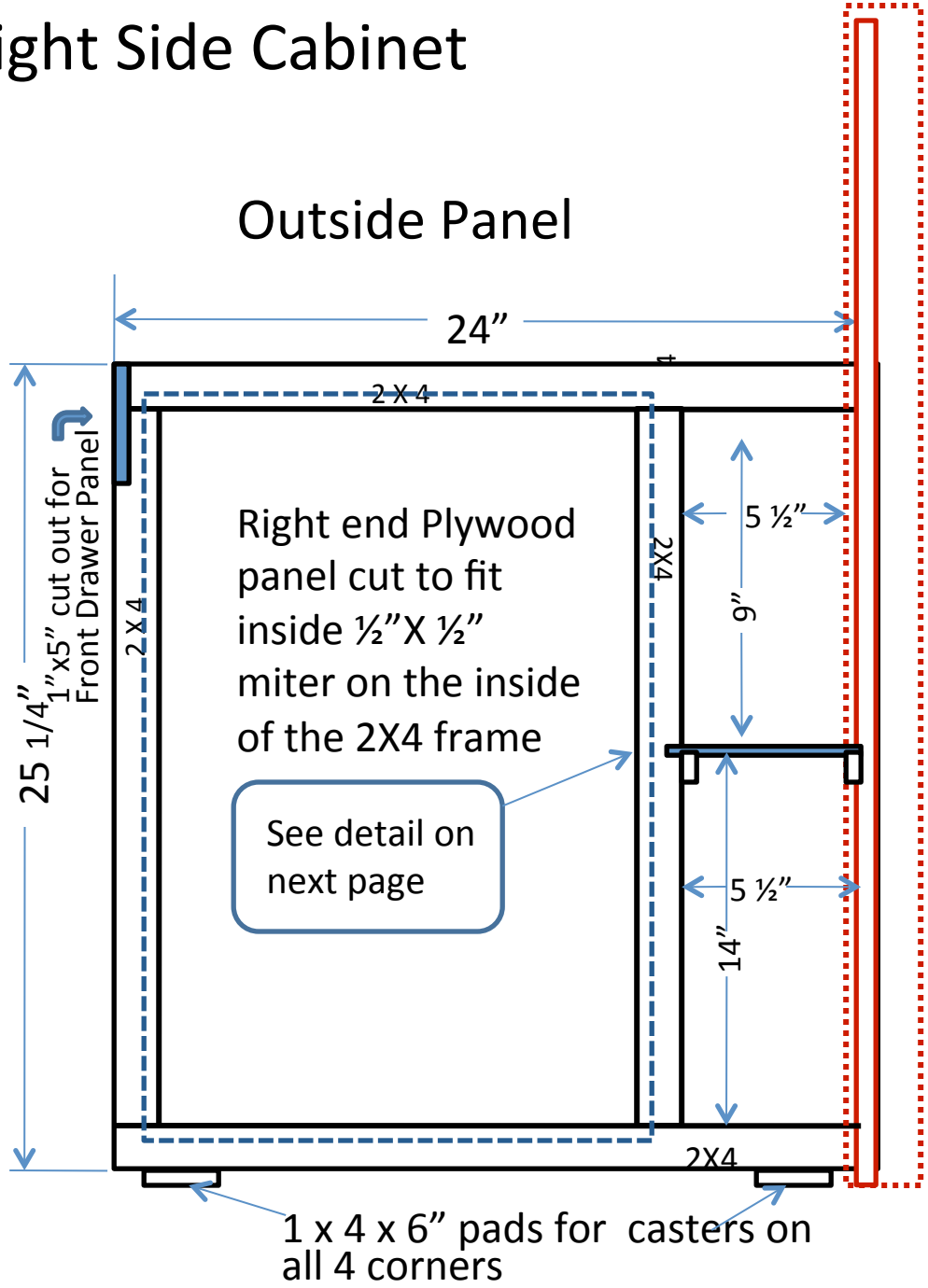
COUNTERTOP

The 2 X 4 is cut to fit snugly between the inside edges of the two end panels and the 2 X 4 rear edge is located 7 inches from the back panel to prevent the countertop from sagging. The 2 X 4 can be screwed or glued to the bottom of the countertop after it's mounted.



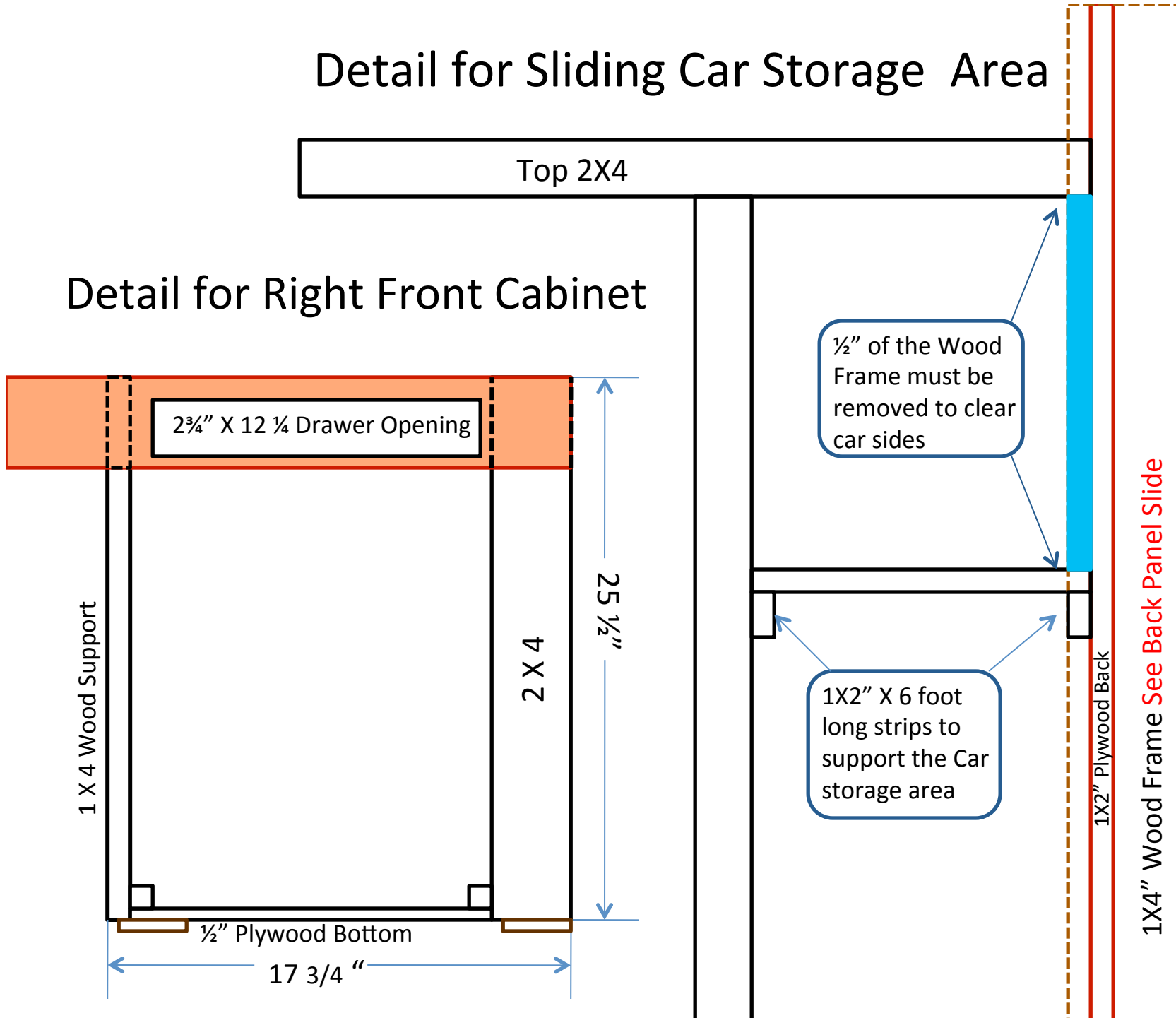


Right Side Cabinet



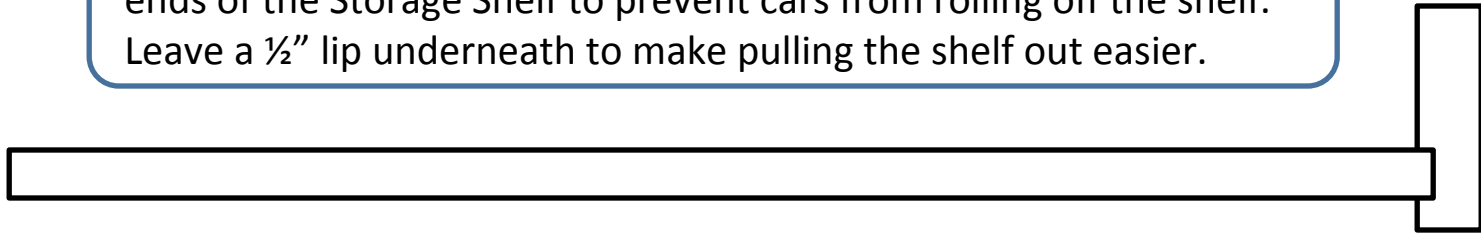
Detail for Sliding Car Storage Area

Detail for Right Front Cabinet

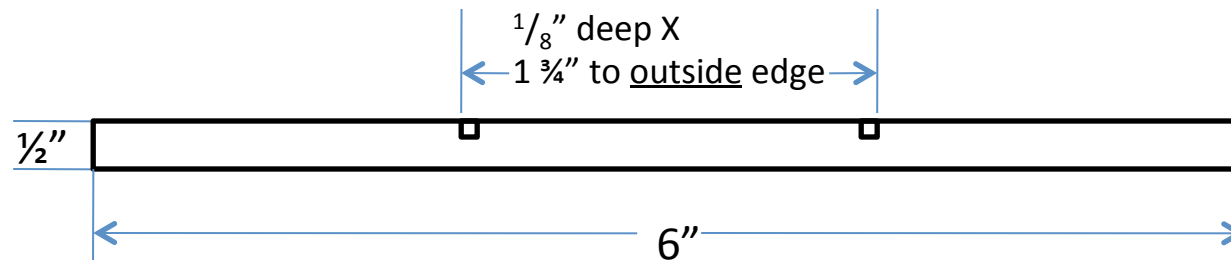


Detail for Sliding Car Storage Shelf

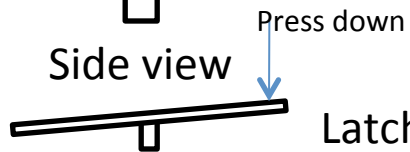
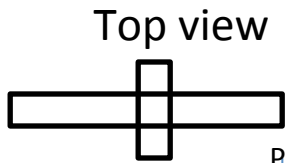
Cut a groove in two 5" long by 1X3 pieces of wood. Glue this to both ends of the Storage Shelf to prevent cars from rolling off the shelf. Leave a $\frac{1}{2}$ " lip underneath to make pulling the shelf out easier.



You can cut two $\frac{1}{8}$ th inch deep grooves $1\frac{3}{4}$ " apart at the outside edges instead of using sections of track. Be sure to center these cut exactly equal distance from the center of the board. If you decide to use track instead, lower the shelf by $\frac{3}{8}$ " to compensate for the added height.

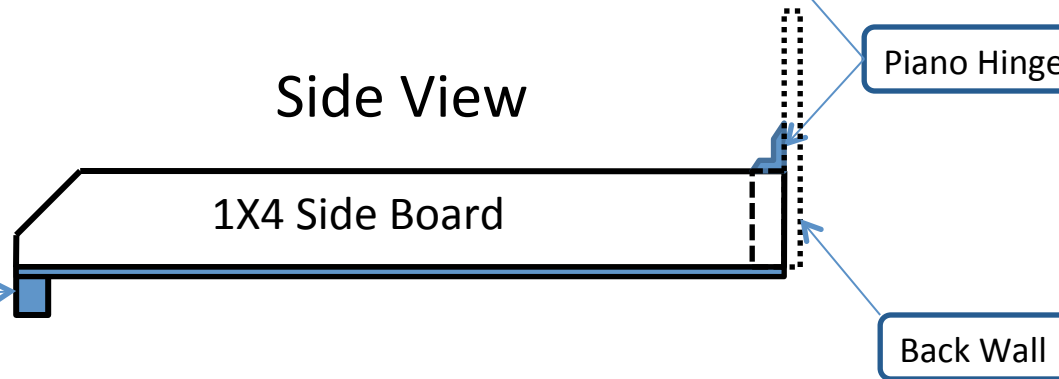
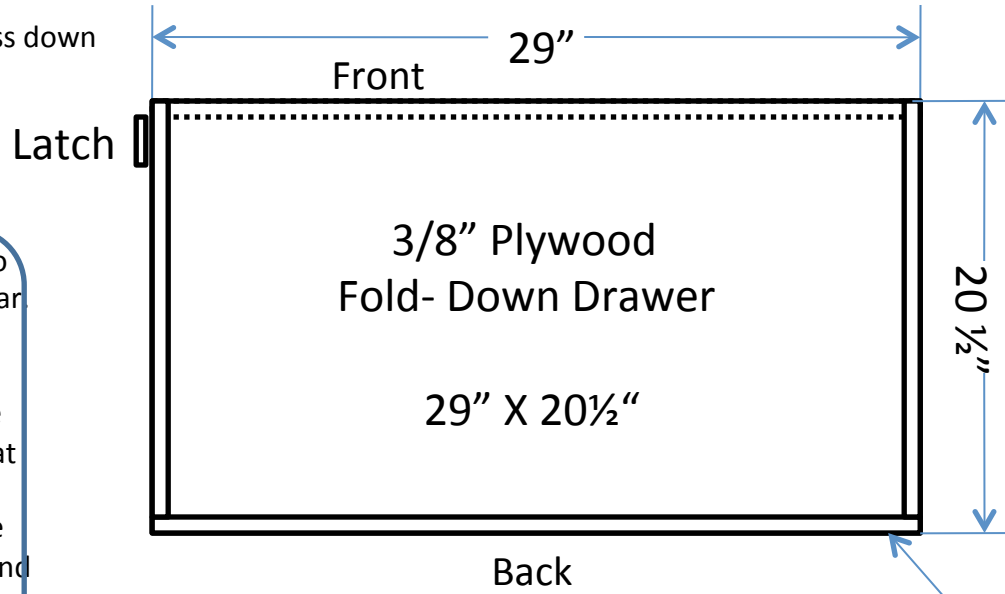


Center Drop-Down Drawer

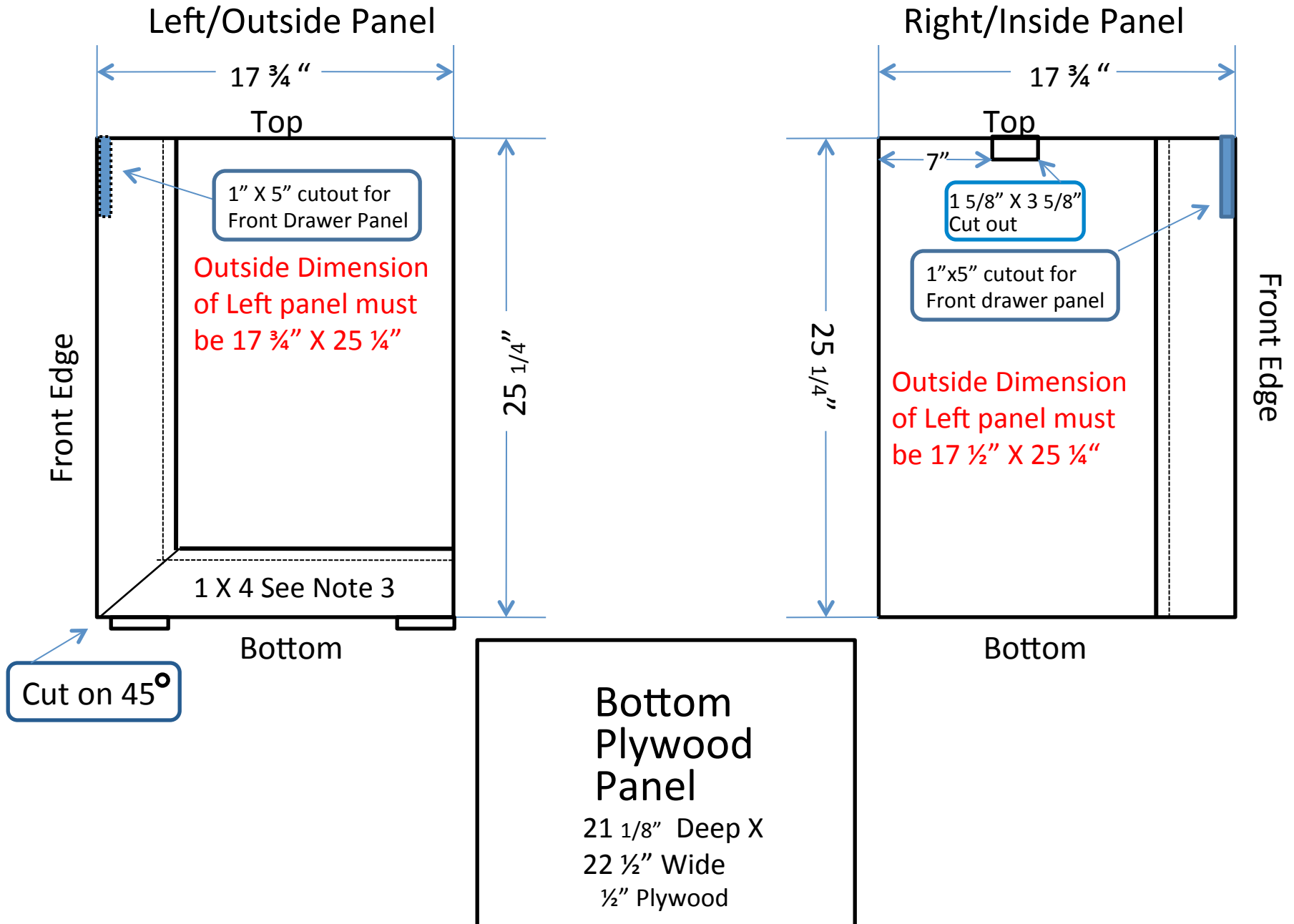


Latch was made of two 1" X 1/8" Pieces of cedar. The cross piece is screwed to the side board. One end of the long piece is screwed at one end and in the middle. To release the Fold-Down drawer, bend the raised end of the long cedar piece down.

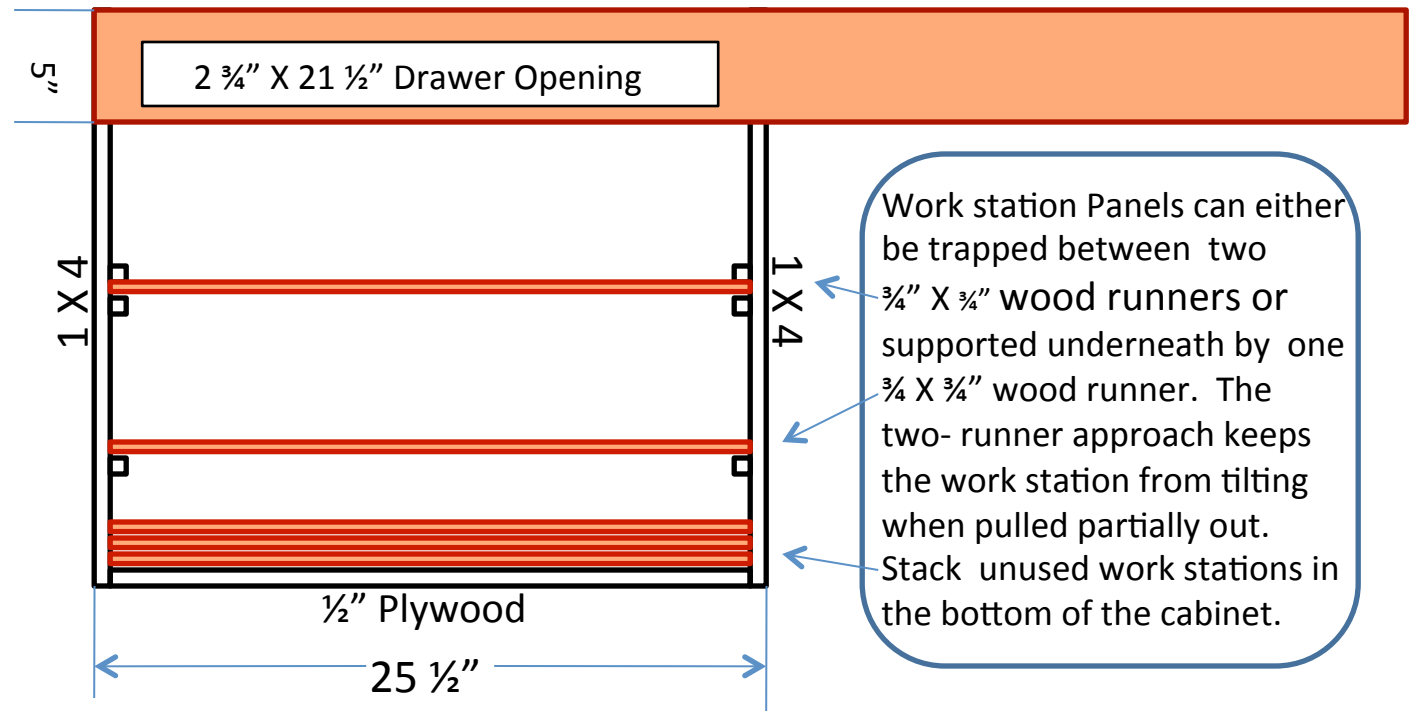
Wood Support - tall enough to let the Drop Down Drawer lay flat when open



Left Side Cabinet

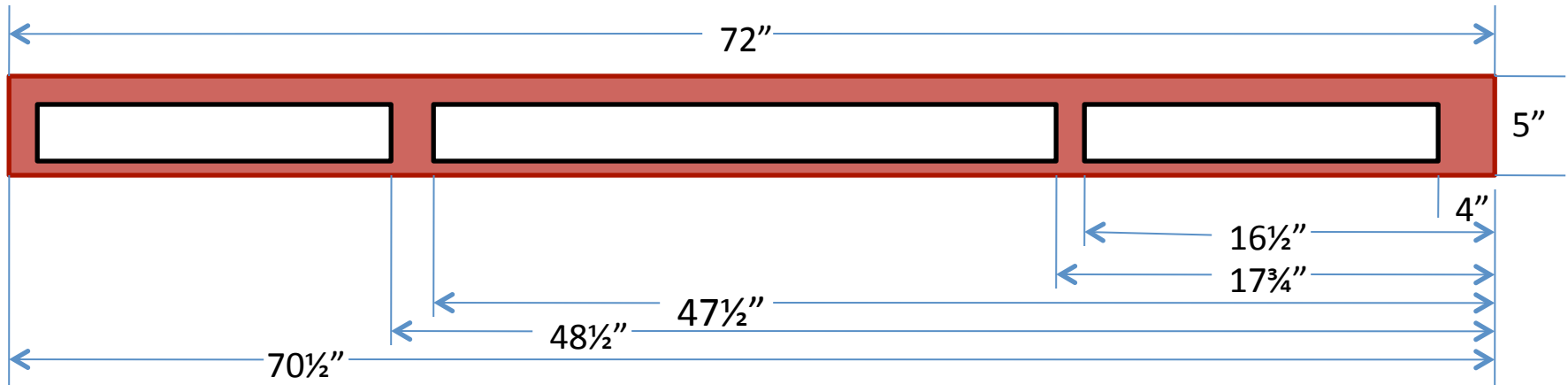


Front of Left Cabinet

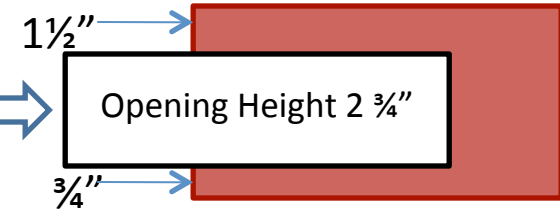


Cut Work Station Panels to slide into spaces between side panels

Front Panel and Drawers



Drawer depth is totally up to you. The dimensions shown here worked for me. I made all front drawers shallow to hold small tools and measuring devices only. You can easily make these drawers deeper by adjusting the width of the front panel.



Front Panel Construction

I used two 1/2" pieces of plywood glued back-to-back to form the front panel. First double check the locations, width, and depth of the drawer openings. Then mark the openings on the front panel. Clamp the two panels together and cut the openings. The back panel is screwed and glued to the front of the bench supports, then the front panel is glued on top of the back panel. This way you do not have any screws showing on the front panel.

Drawers and Drawer Glides

The size and number of drawers is up to you. All glides were side-mounted 16 inches long. Different glides will have different clearance requirements. If you select under-drawer glides, you will be able to make your drawers about 1" wider. On my bench I had 6 drawers of graduating heights, shallowest drawers on top and deepest drawers at the bottom.

A little material had to be cut away on the back of the drawers to provide clearance when mounting the drawers on the glides through the openings.

Drawer sides were glued and clamped to the drawer fronts so no screws were visible from the front.

