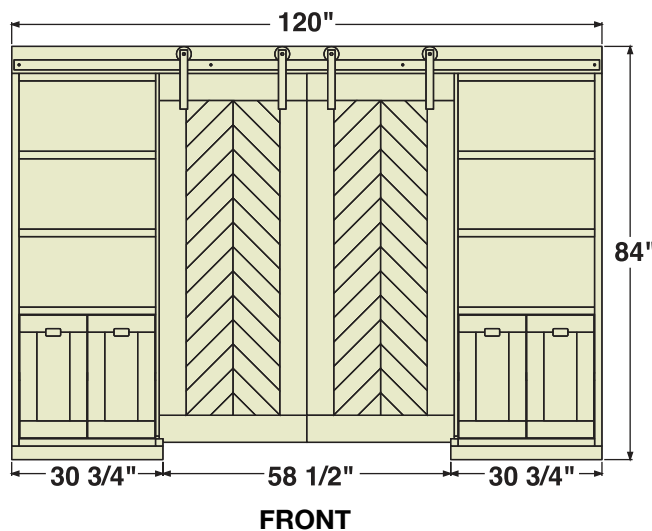




# Hidden Study **THE** Towers

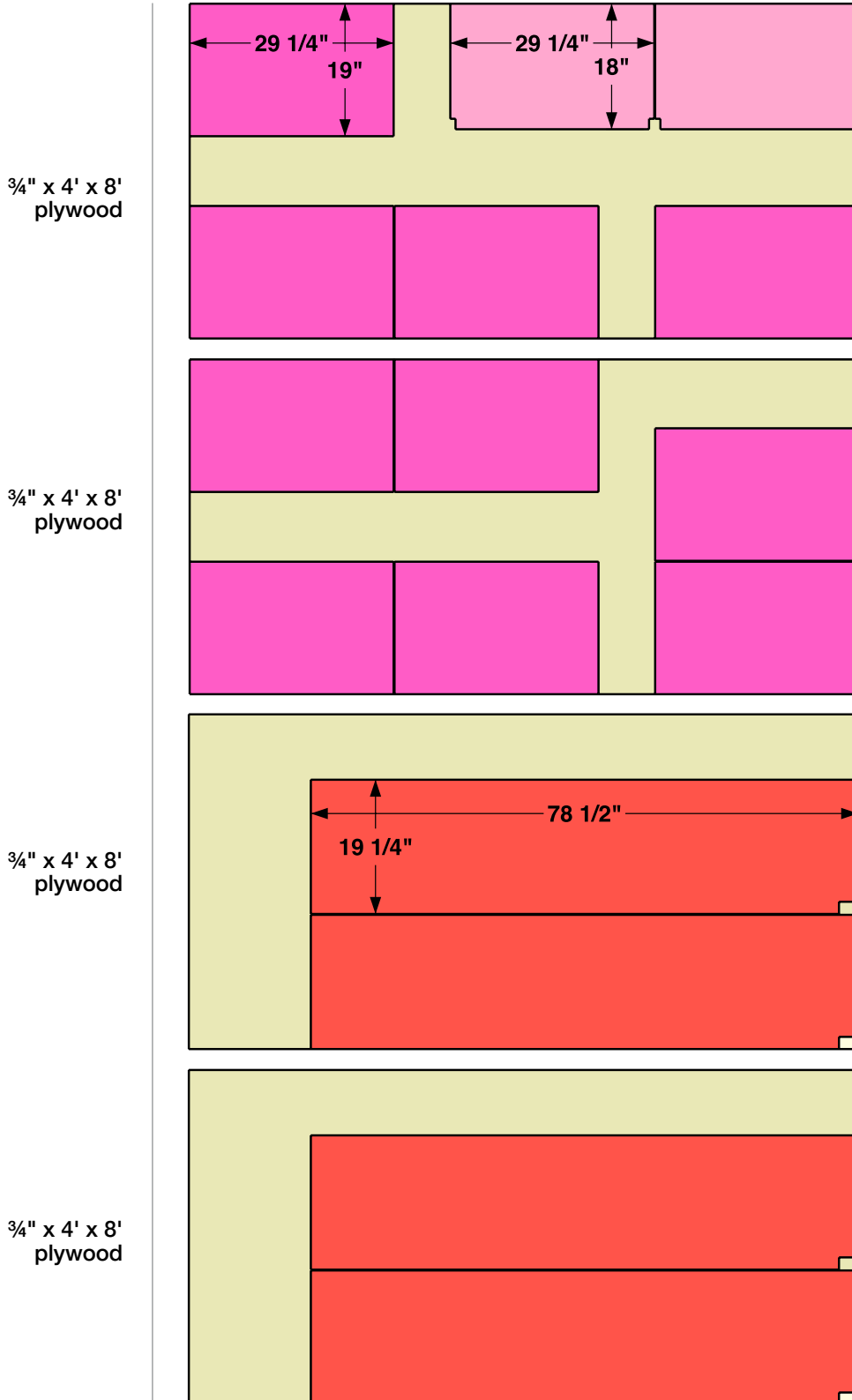
*W*hat a magnificent personification of your DIY skills. The catch? It doesn't need anything more than a little patience and basic hands on approach. Two marvelous towers with a ton of shelf space and two lower doors on each that provide a visual base and hidden storage for the less organized items. Build the accompanying sliding barn doors and desk for a show stopper in any living space



Make sure you read through the instructions carefully and take notice of any special construction notes prior to making any cuts. And always practice safe DIY'ing. Have fun!

**PLEASE NOTE - many pieces may require you to cut them to fit a certain size while you are building it. Its best not to cut pieces until you need them. Take your time and study all the diagrams.**

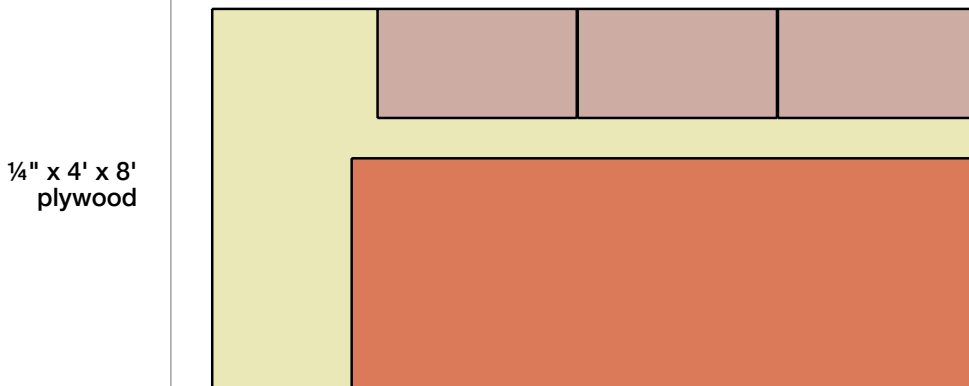
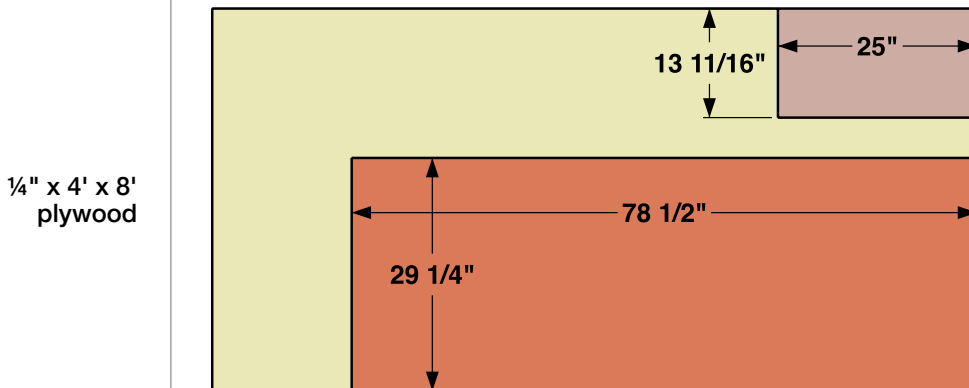
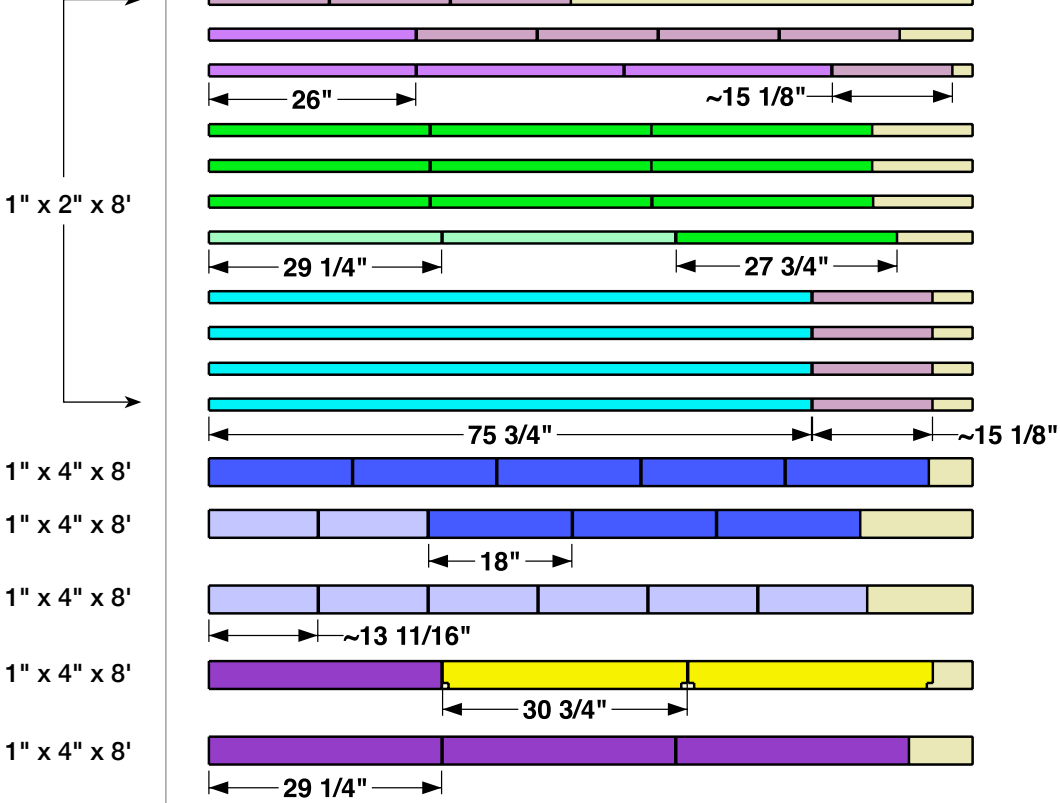
### CUT LIST



Make sure you read through the instructions carefully and take notice of any special construction notes prior to making any cuts. And always practice safe DIY'ing. Have fun!

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**CUT LIST**



## MATERIALS LIST

Material	Qty
¾" X 4' X 8' plywood	4
¼" x 4' x 8' plywood	2
1" x 4" x 8' pine board	5
1" x 2" x 8' pine board	11

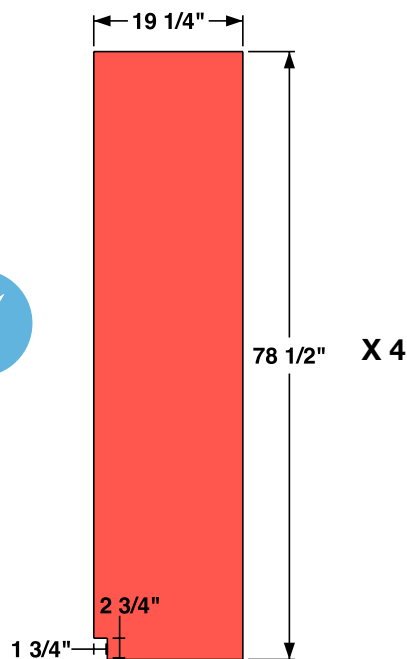
Material	Qty
1-¼" pocket screws	
1-¼" brad nails	
¾" staples	
wood glue	
cabinet hinges	8
cabinet pulls	4
shelf pins	4

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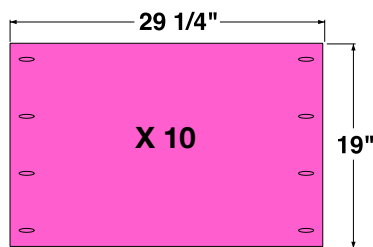
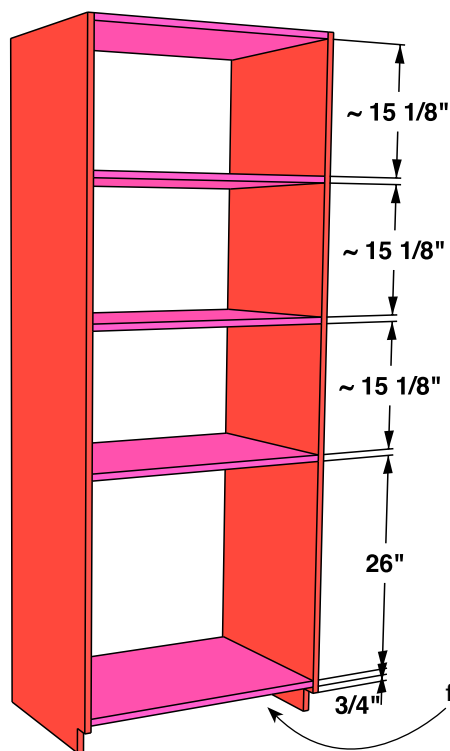
## NOTES



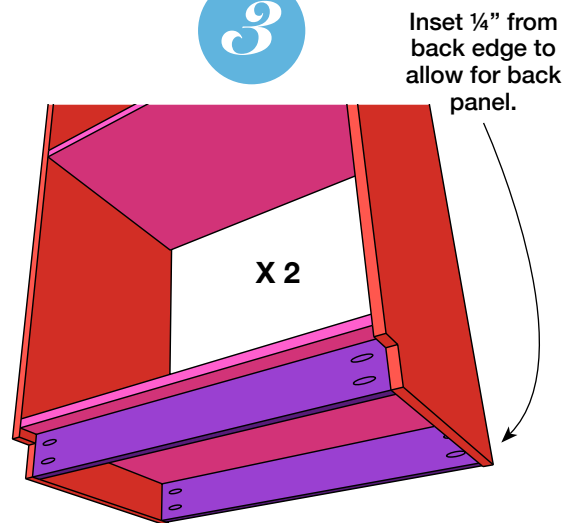
1



2



3



1.

To begin cut out 4 side panels from  $\frac{3}{4}$ " plywood according to the illustration above. Begin with the outer dimensions. Then, using a speed square, mark the cut out for the toe-kick. Use a jigsaw to cut the notches out. Repeat for the 3 remaining panels.

2.

Next, cut out 10 pieces of  $\frac{3}{4}$ " plywood according to the illustration above.

These will be your top, bottom and fixed shelves for both towers. Drill  $\frac{3}{4}$ " pocket holes as shown

Attach to the sides according to the measurements above with wood glue and 1- $\frac{1}{2}$ " pocket screws. Your pieces should be flush to the front edge (the toe-kick edge) of the side panels. That will inset the shelves  $\frac{1}{4}$ " from the back edge for the back panel later on.

You will want the top pocket holes facing up and all the rest facing down. Repeat for the second tower.

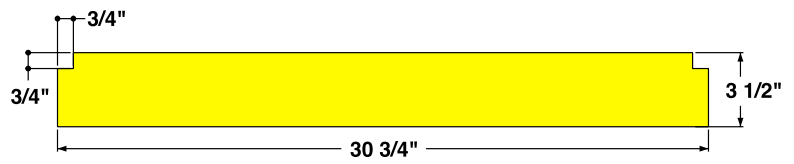
**PLEASE NOTE** - the bottom shelf is inset  $\frac{3}{4}$ " up from the toe kick.

This is so that there is room for the front brace in the next step.

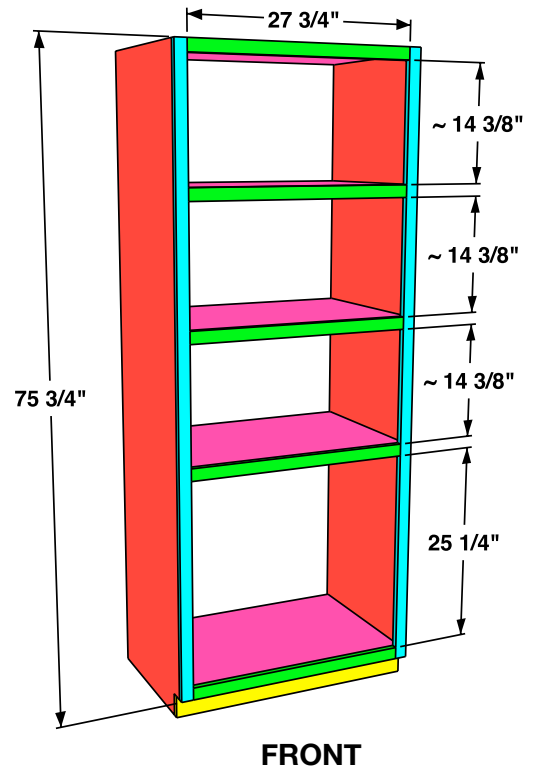
3.

Now for the bottom front and rear braces. Attach the 1x4s as shown by drilling  $\frac{3}{4}$ " pocket holes and attach with wood glue and 1- $\frac{1}{2}$ " pocket screws. The front will be flush with toe kick and the back will be inset  $\frac{1}{4}$ " for the back panel later.

Don't worry, the pocket screws will be covered up in the next step.



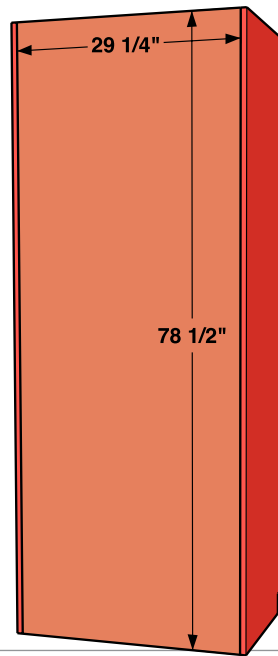
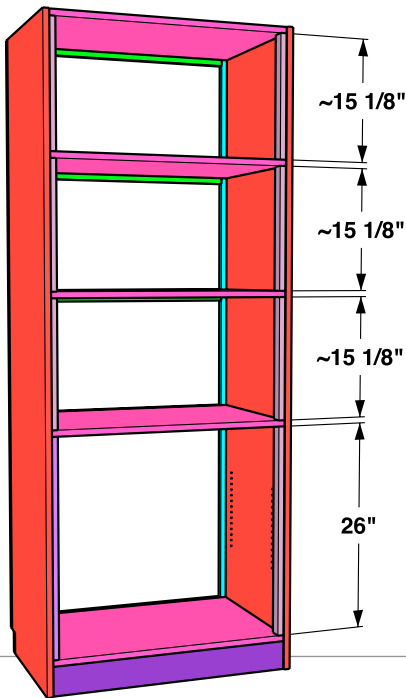
4



5

BACK

6



4.

Now we will cut and attach all the face frame. First cut out the separate toe-kick face frame piece to fit.

Attach with wood glue and 1-1/4" brad nails to the toe-kick area you cut out in Step 1.

Cut the 1x2 face frame pieces to fit as shown, using the lengths above as a rough estimates. Then, using the spacing of your shelves as a guide, construct your face frame separately. Drill 3/4" pocket holes on the ends of all the horizontal rails and then attach with wood glue and 1-1/2" pocket screws. Again, MAKE SURE to verify spacing to coincide with the spacing of your shelves.

Now attach the face frame to the cabinet with wood glue and 1-1/4" brad nails.

5.

Flip your cabinet around to work on the back. You will now attach 1x2 braces along the back between the top, bottom and fixed shelves. The 1x2s will be attached 1/4" inset from back edge. Cut all pieces to fit and attach with wood glue and 1-1/4" brad nails, making sure the 1-1/2" sides of the spaces are against the side panels.

Now, using your KREG shelf pin jig, drill your shelf pin holes for your adjustable shelf in the lower compartment of your cabinet.

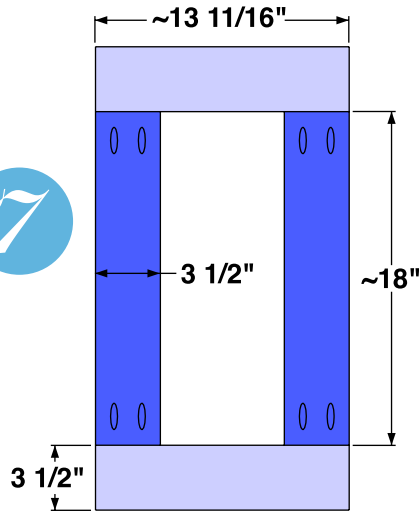
6.

Finally, cut the back 1/4" plywood panel to fit. Take your time, measure accurately (maybe 2 or 3 times).

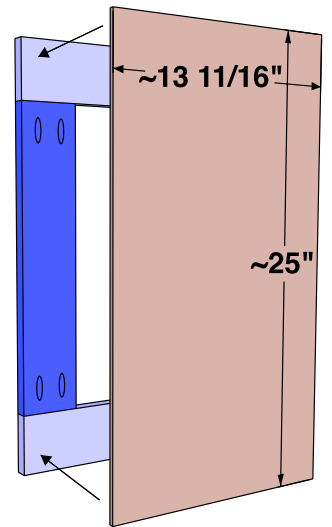
Attach with wood glue and 3/4" staples.



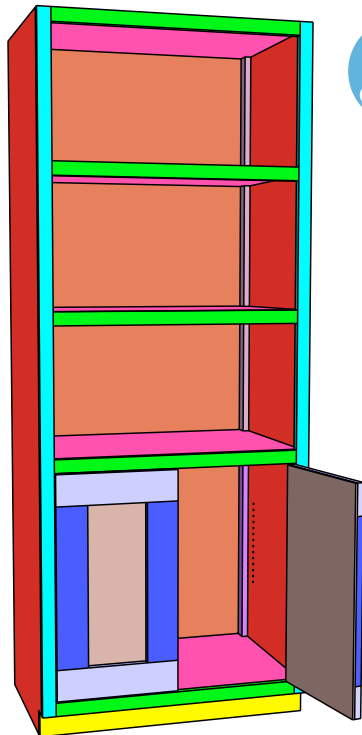
7



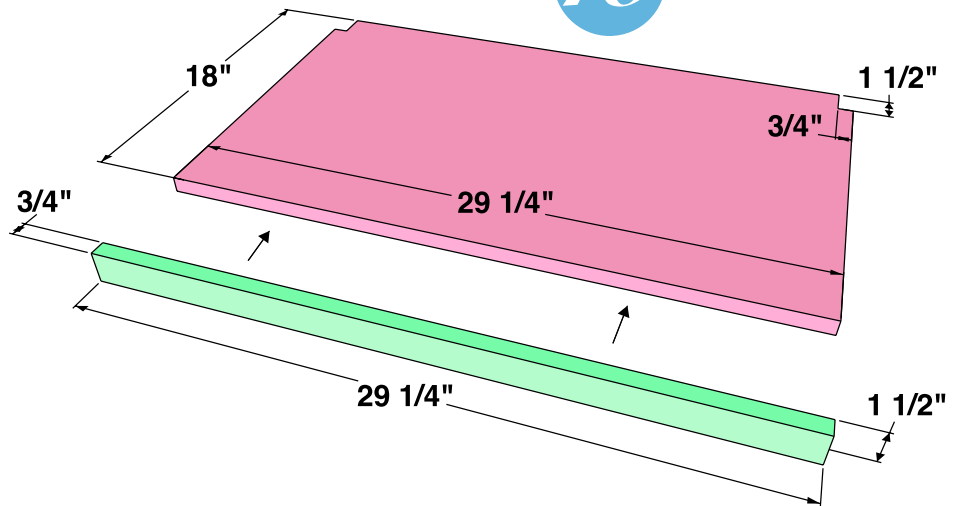
8



9



10



7.

Now lets work on the doors. Using the opening of your lower cabinet as the guide, cut the face frame of your doors to fit. We like to leave a 1/8" gap all around our doors and between them. The illustration above should be only a rough reference of what the measurements will be. Once you've made your cuts lay out your boards as shown above. Drill 3/4" pocket holes in the ends of the vertical stiles and attach with wood glue and 1-1/2" pocket screws.

8.

To finish off the doors cut 1/4" plywood panels. Attach with wood glue and 3/4" staples.

9.

Attach the doors with hinges. When attaching the pulls keep in mind the sliding barn door, if you are adding that. There is only about 3/8" clearance. You will want something flat.

10.

Finally, cut your two adjustable shelves to fit. Use the above illustration for rough sizes. You will want to leave a little wiggle room for your shelf to swell with changing temperatures so cut it a little less than an 1/8" narrower than the opening. When figuring out the depth you want to leave clearance between the front of the shelf and the back of the doors. Cut your 1x2 face frame to fit and attach with wood glue and 1-1/4" brad nails.