

Ehlers Desk



MATERIALS:

- 1 – Sheet of $\frac{3}{4}$ " Plywood
- 1 – Half Sheet of $\frac{1}{4}$ " Plywood
- 4 – Osborne Tapered Legs
- 2 – 1x6x6'
- 5 – 1x2x8'
- 3 – 1x3x8'
- 1 – 1x4x6'
- 3 – Sets of 18" Drawer Slides
- 2 – Cup Pulls
- 2 – Knobs
- $\frac{3}{4}$ " Veneer Edging
- 1-1/4" Pocket Hole Screws
- 1-1/4" Brad Nails
- $\frac{3}{4}$ " Brad Nails

TOOLS:

- Tape Measure
- Speed Square

CUT LIST:

- 4 – 1x6 @ 17" (sides)
- 2 – 1x2 @ 17" (side stretchers)
- 2 – 1x2 @ 22 $\frac{5}{8}$ " (long cross piece, long point to short point)
- 4 – 1x2 @ 11 $\frac{3}{8}$ " (short cross piece)
- 1 – 1x6 @ 53" (back)
- 5 – 1x2 @ 53" (back stretcher and supports)
- 1 – $\frac{3}{4}$ " plywood @ 61" x 25" (top)
- 2 – 1x3 @ 18 $\frac{1}{8}$ " (supports)
- 4 – $\frac{3}{4}$ " plywood @ 20 $\frac{3}{8}$ " x 3 $\frac{3}{4}$ " (drawer slide supports)
- 2 – 1x2 @ 3 $\frac{3}{4}$ " (divider trim)

LARGE DRAWER (1):

- 2 – 1x3 @ 28" (front/back)
- 2 – 1x3 @ 19" (sides)
- 1 – $\frac{1}{4}$ " plywood @ 29 $\frac{1}{2}$ " x 19" (bottom)
- 1 – 1x4 @ 30 $\frac{1}{2}$ " (face)

Pencil

Drill

Miter Saw

Kreg Jig

Kreg Rip-Cut

Brad Nailer or Hammer

Iron

Safety Glasses

Hearing Protection

SMALL DRAWERS (2):

4 – 1x3 @ 19" (front/back)

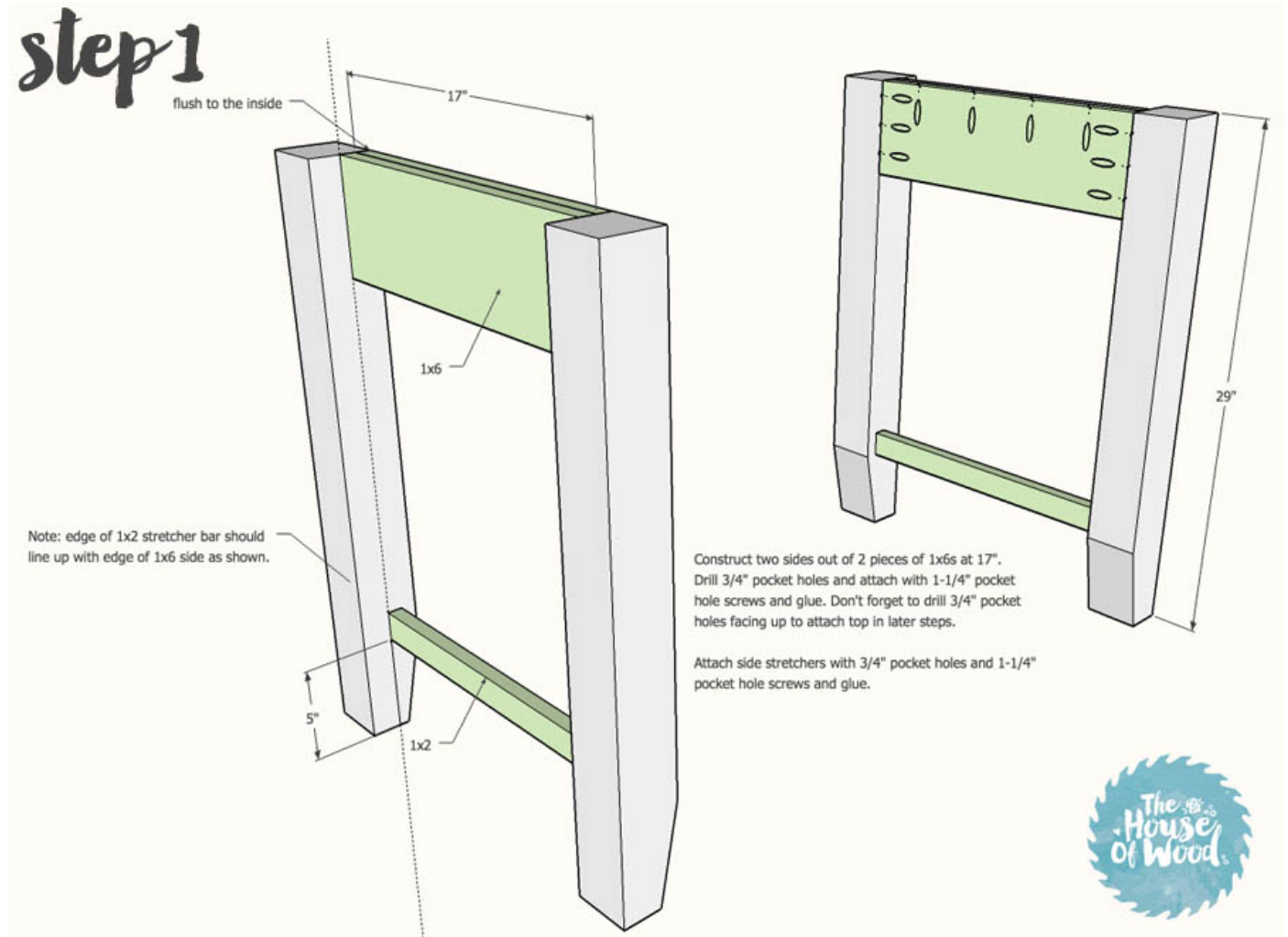
4 – 1x3 @ 7 1/4" (sides)

2 – 1/4" plywood @ 19" x 8 3/4" (bottom)

2 – 1x4 @ 9 1/2" (face)

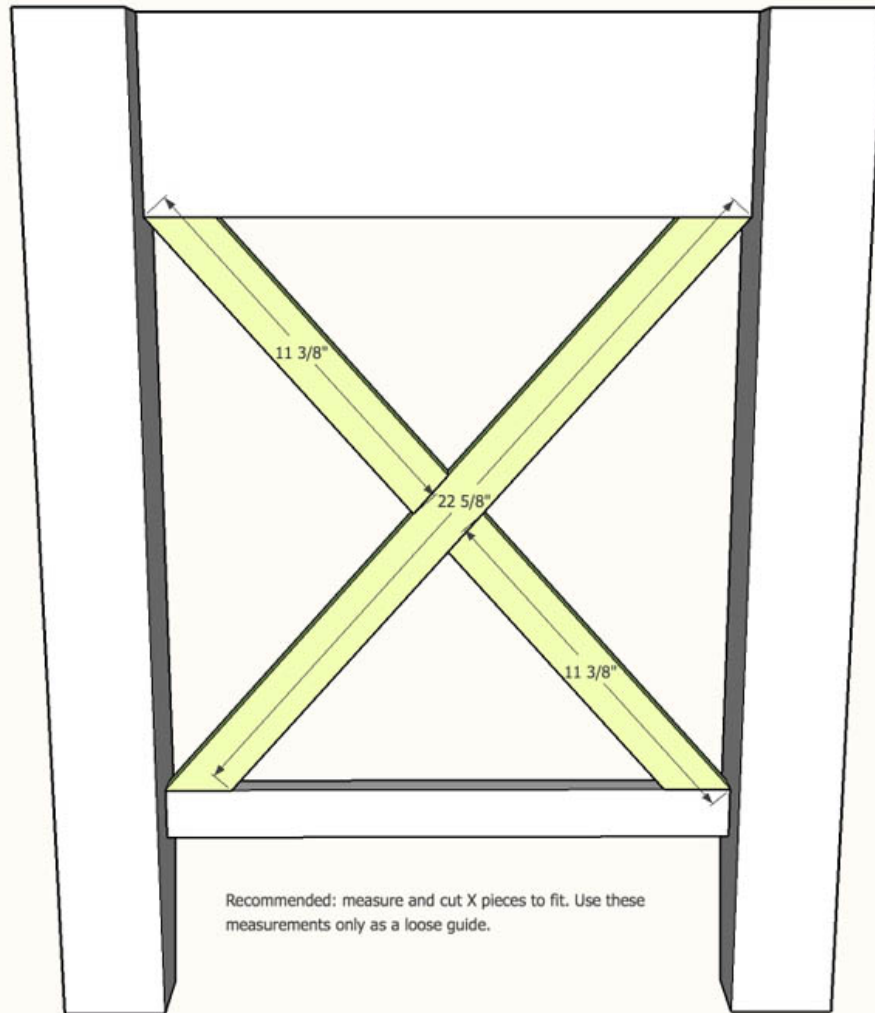
STEP 1

Construct sides. Drill 3/4" pocket holes and attach with 1 1/4" pocket hole screws and glue. 1x6 boards will be flush to the insides of the legs. The outside edge of the 1x2 stretcher should line up with the outside edge of the 1x6 sides as shown.



STEP 2

Attach cross pieces. Use these measurements as a loose guide and measure and cut cross pieces to fit. The outside ends are cut at a 40° angle while the middle ends are a 5° angle. Again, I recommend measuring and cutting the cross pieces to fit your project for the most precision.

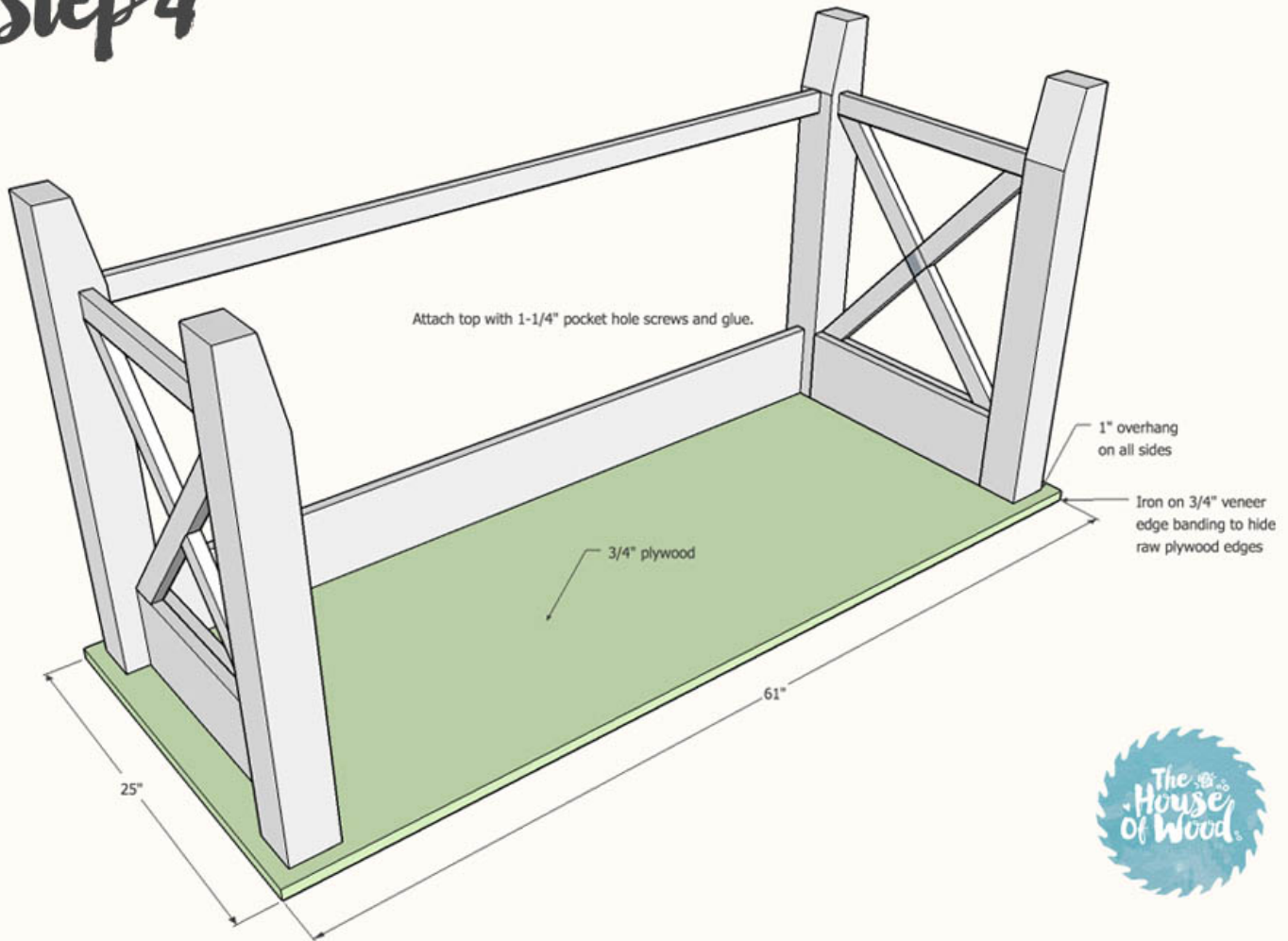
step 2

Recommended: measure and cut X pieces to fit. Use these measurements only as a loose guide.



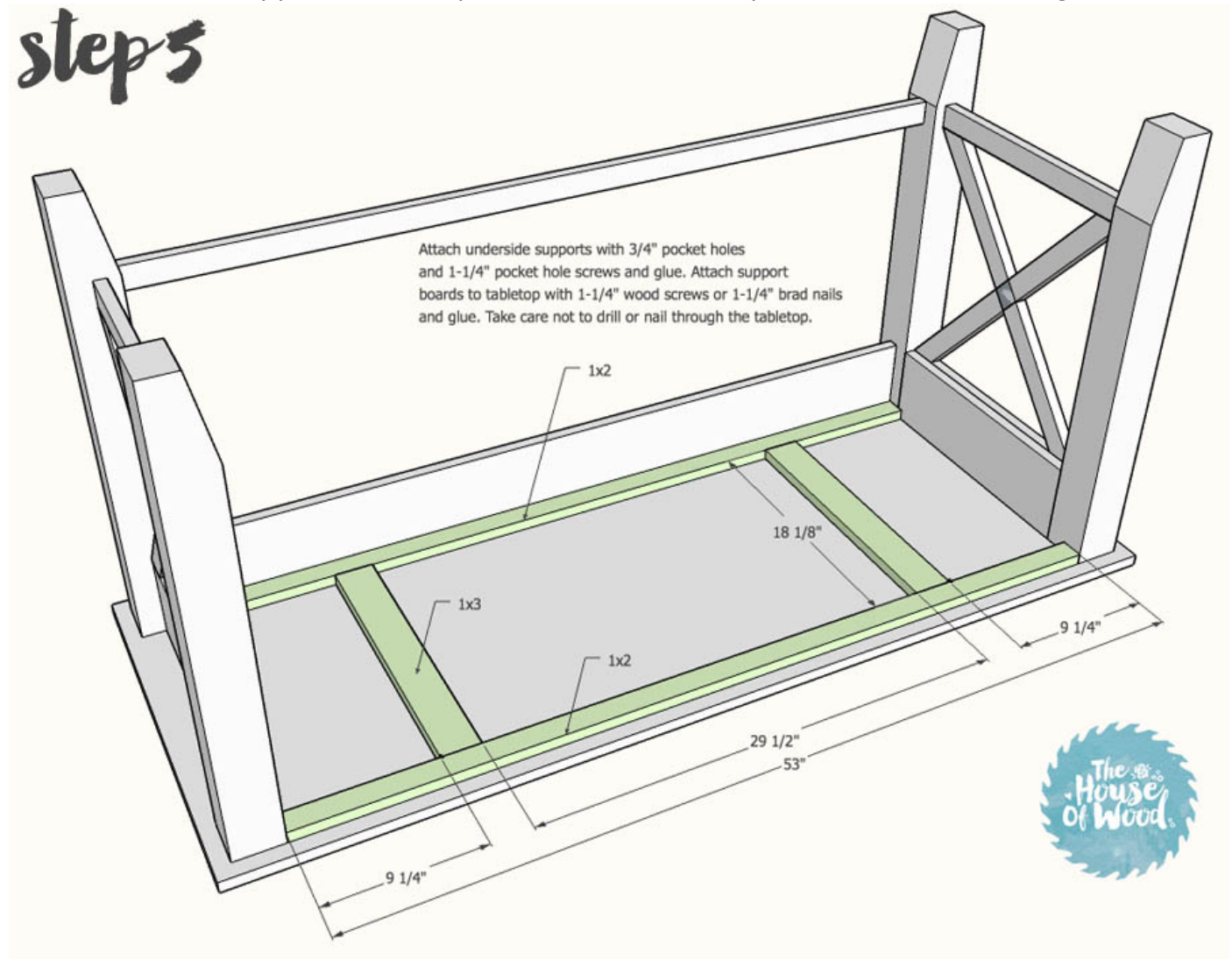
STEP 4

Attach the top with 1 1/4" pocket hole screws and glue, allowing a 1" overhang on all sides.
Optional: iron on 3/4" veneer edge banding to hide raw plywood edges.

step 4

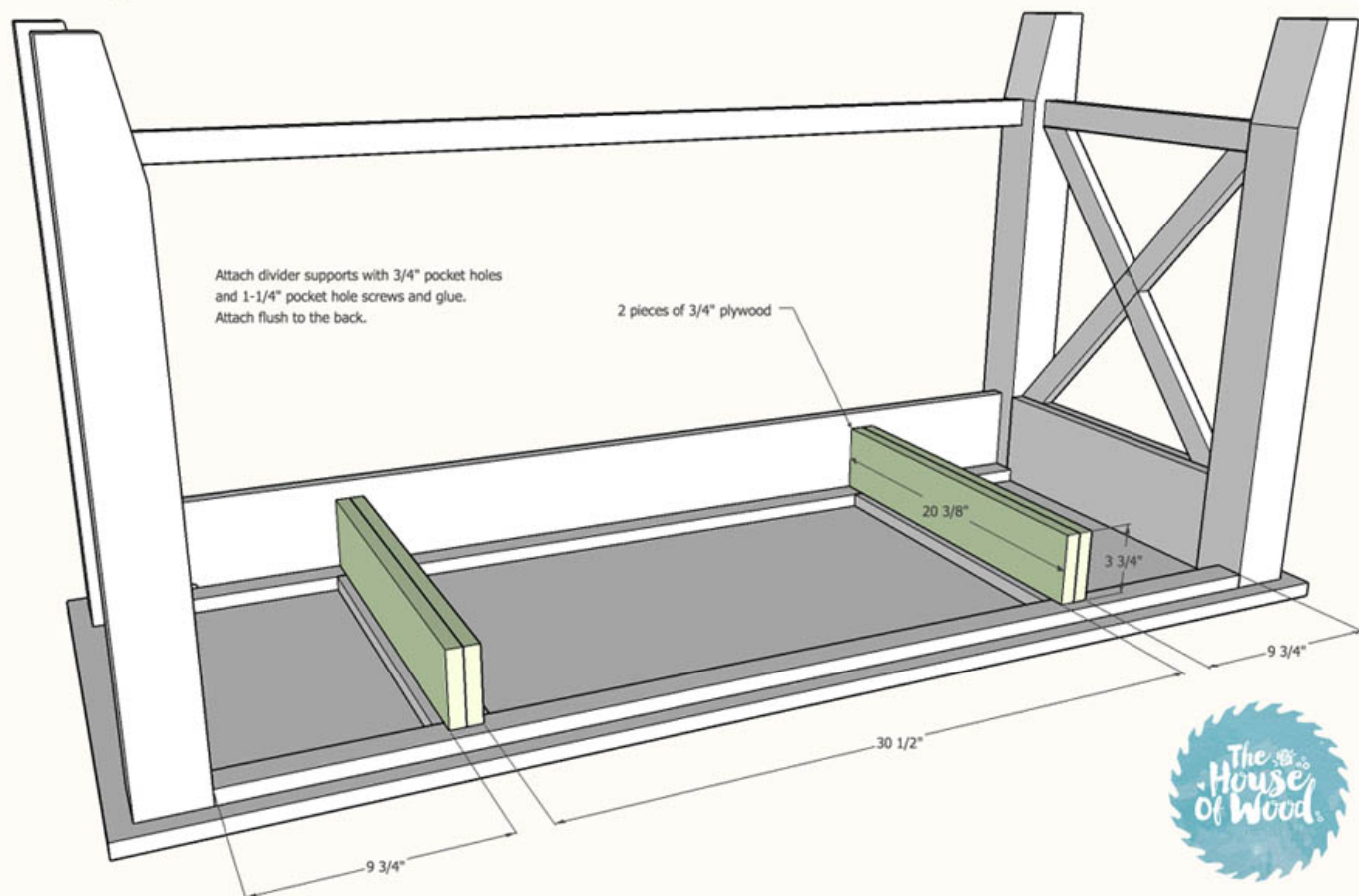
STEP 5

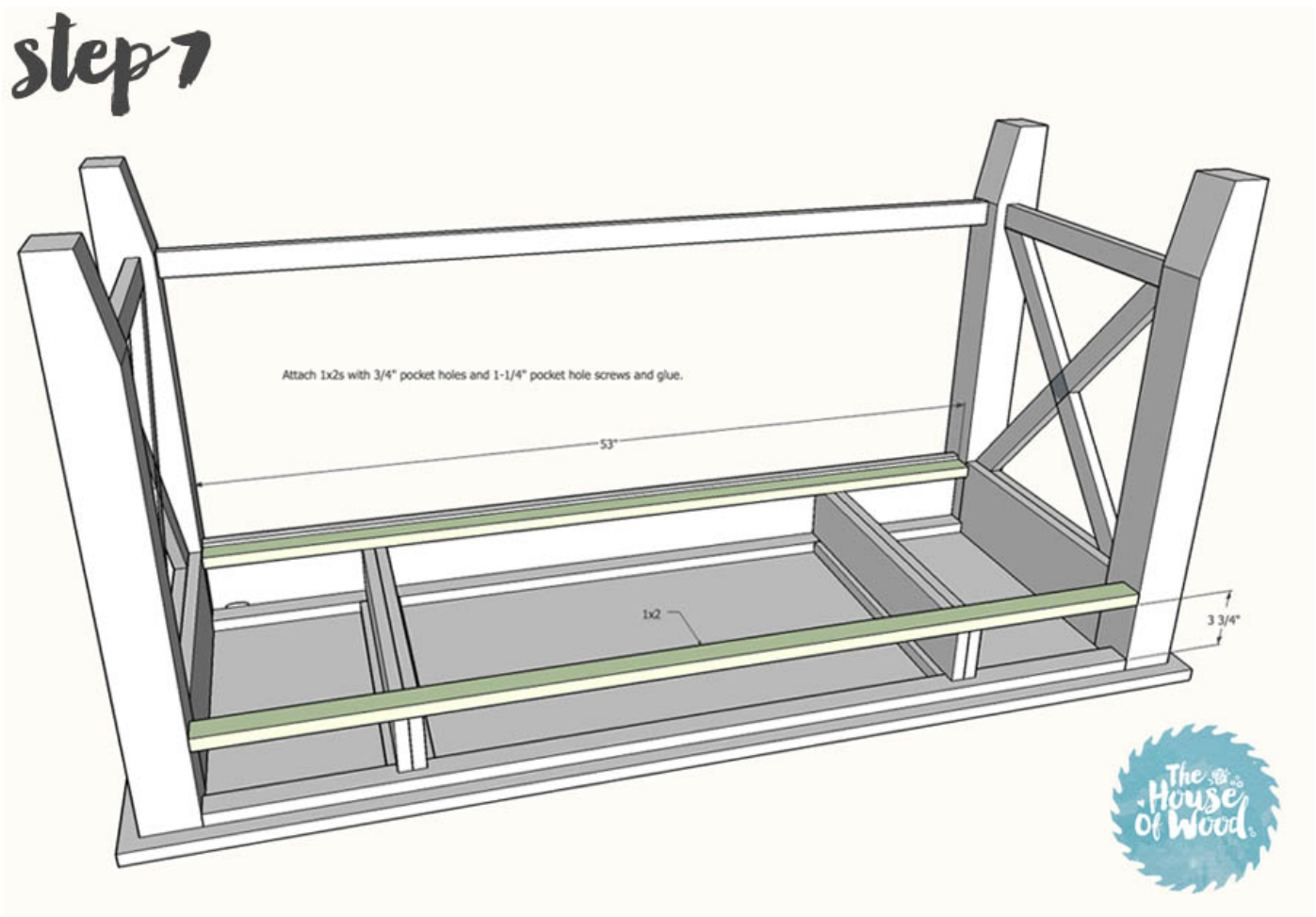
Attach underside supports with $\frac{3}{4}$ " pocket holes and $1\frac{1}{4}$ " pocket hole screws and glue. Attach support boards to tabletop with $1\frac{1}{4}$ " wood screws or $1\frac{1}{4}$ " brad nails and glue. Take care not to drill or nail through the tabletop.

step 5

STEP 6

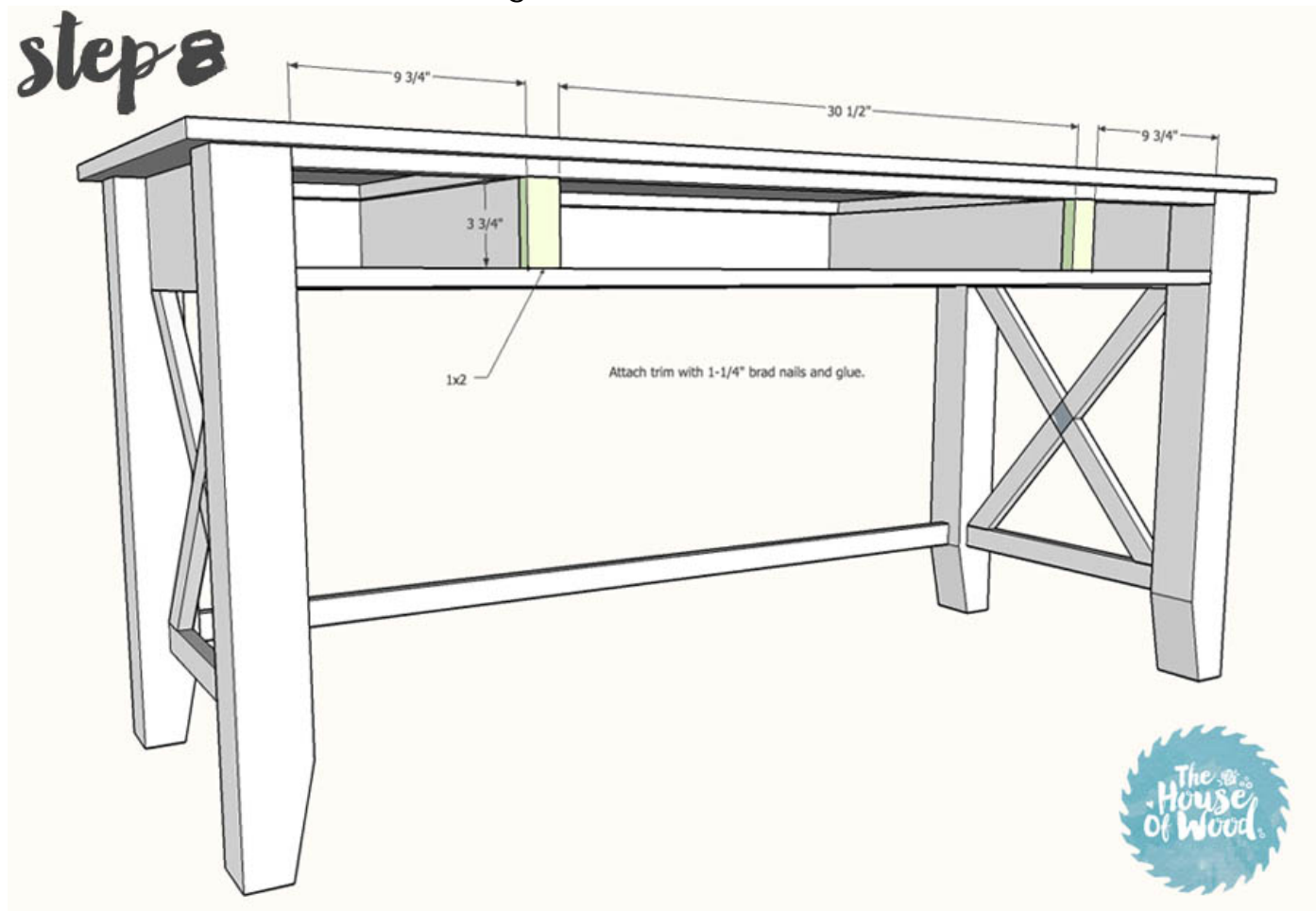
Attach drawer slide supports with $\frac{3}{4}$ " pocket holes and $1\frac{1}{4}$ " pocket hole screws and glue. Note that the boards will be flush to the back.

step 6



STEP 8

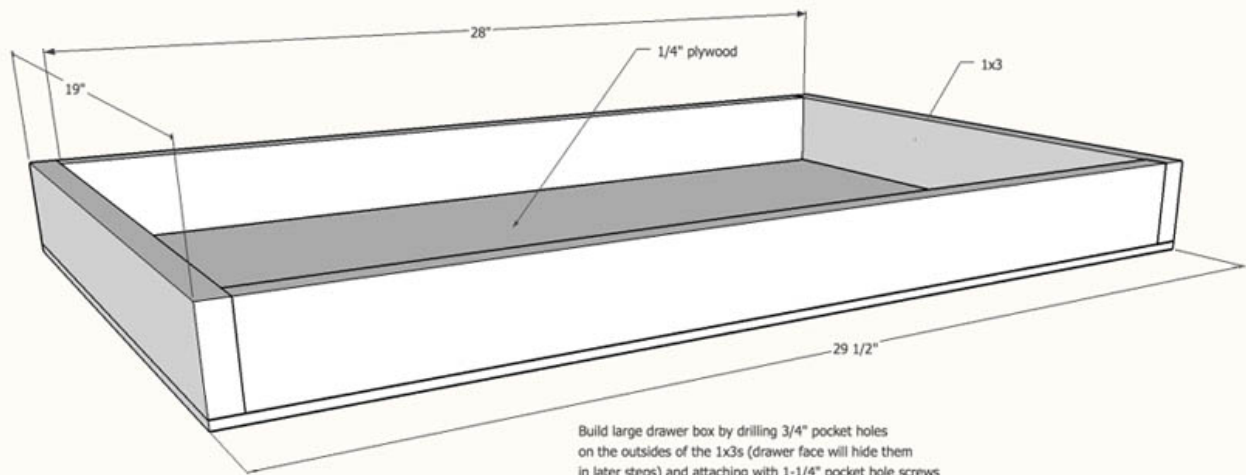
Attach trim with 1 1/4" brad nails and glue.



STEP 9

Build the large drawer as shown. Drill $\frac{3}{4}$ " pocket holes on the outside of the boards (pocket holes will be hidden by drawer face in later steps) and attach with $1\frac{1}{4}$ " pocket hole screws and glue. Attach $\frac{1}{4}$ " plywood bottom with $\frac{3}{4}$ " brad nails or staples and glue.

step 9



Build large drawer box by drilling $\frac{3}{4}$ " pocket holes on the outsides of the 1x3s (drawer face will hide them in later steps) and attaching with $1\frac{1}{4}$ " pocket hole screws and wood glue.

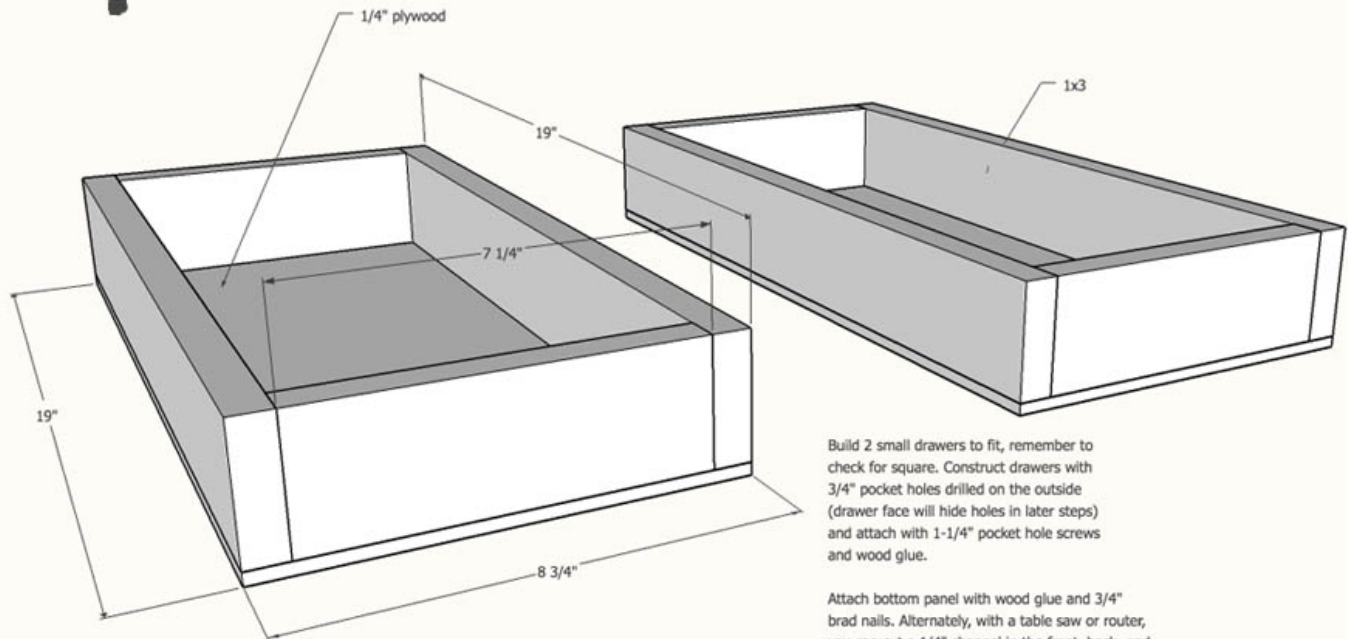
Attach bottom panel with wood glue and $\frac{3}{4}$ " brad nails. Alternately, with a table saw or router, you can cut a $\frac{1}{4}$ " wide channel in the 1x3 boards so that the bottom panel will slide in and fit in the channel.

Be sure to build your drawers to fit your space and check for square.



STEP 10

Build 2 small drawers. Drill $\frac{3}{4}$ " pocket holes on the outside of the boards (pocket holes will be hidden by drawer face in later steps) and attach with $1\frac{1}{4}$ " pocket hole screws and glue. Attach $\frac{1}{4}$ " plywood with $\frac{3}{4}$ " brad nails or staples and glue.

step 10

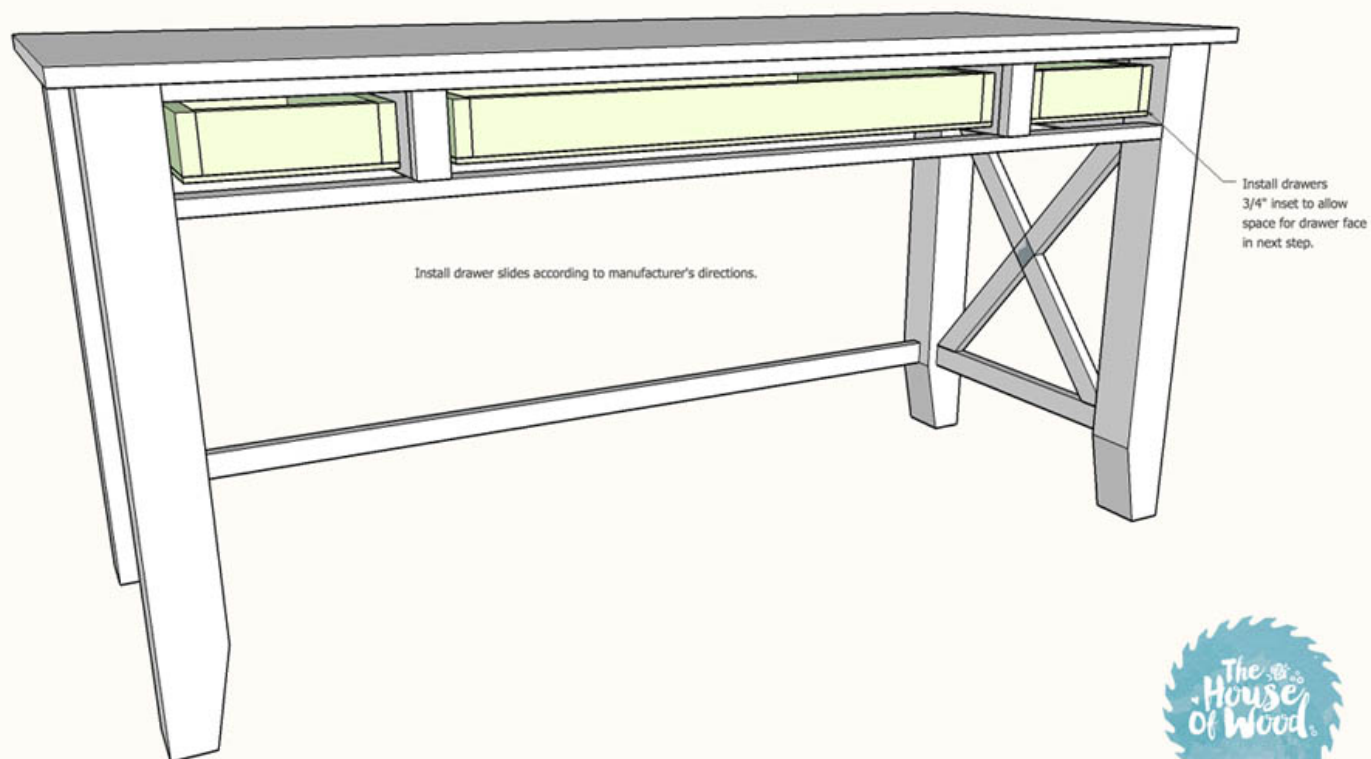
Build 2 small drawers to fit, remember to check for square. Construct drawers with $\frac{3}{4}$ " pocket holes drilled on the outside (drawer face will hide holes in later steps) and attach with $1\frac{1}{4}$ " pocket hole screws and wood glue.

Attach bottom panel with wood glue and $\frac{3}{4}$ " brad nails. Alternately, with a table saw or router, you can cut a $\frac{1}{4}$ " channel in the front, back, and sides of the drawer box so that the bottom panel slides in and fits in the channel.



STEP 11

Install drawer slides according to manufacturer's directions. Be sure to install drawers $\frac{3}{4}$ " inset to allow space for the drawer face in later steps.

step 11

STEP 12

Attach drawer face with 1 1/4" brad nails and glue, allowing a 1/8" gap around all sides. You may need to countersink the machine screws from the inside to attach knobs and pulls.

step 12

