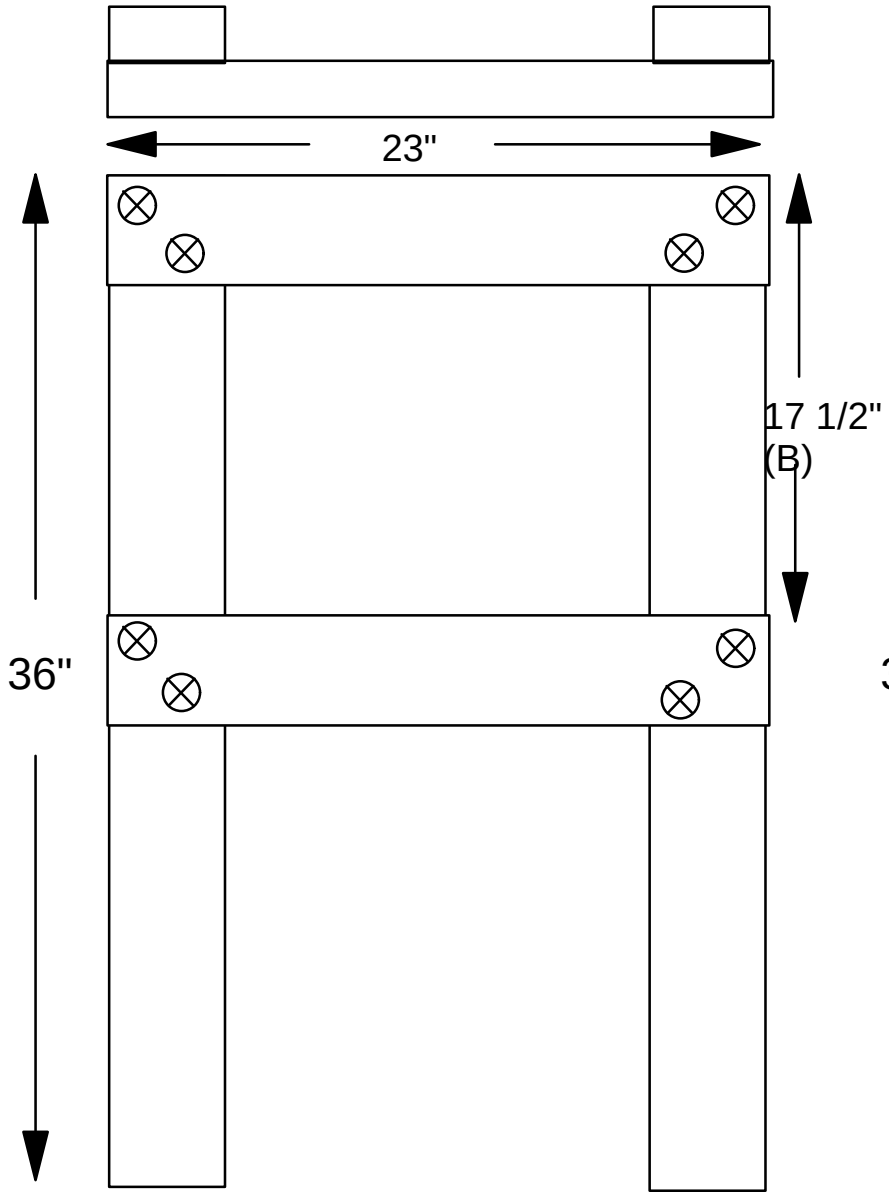
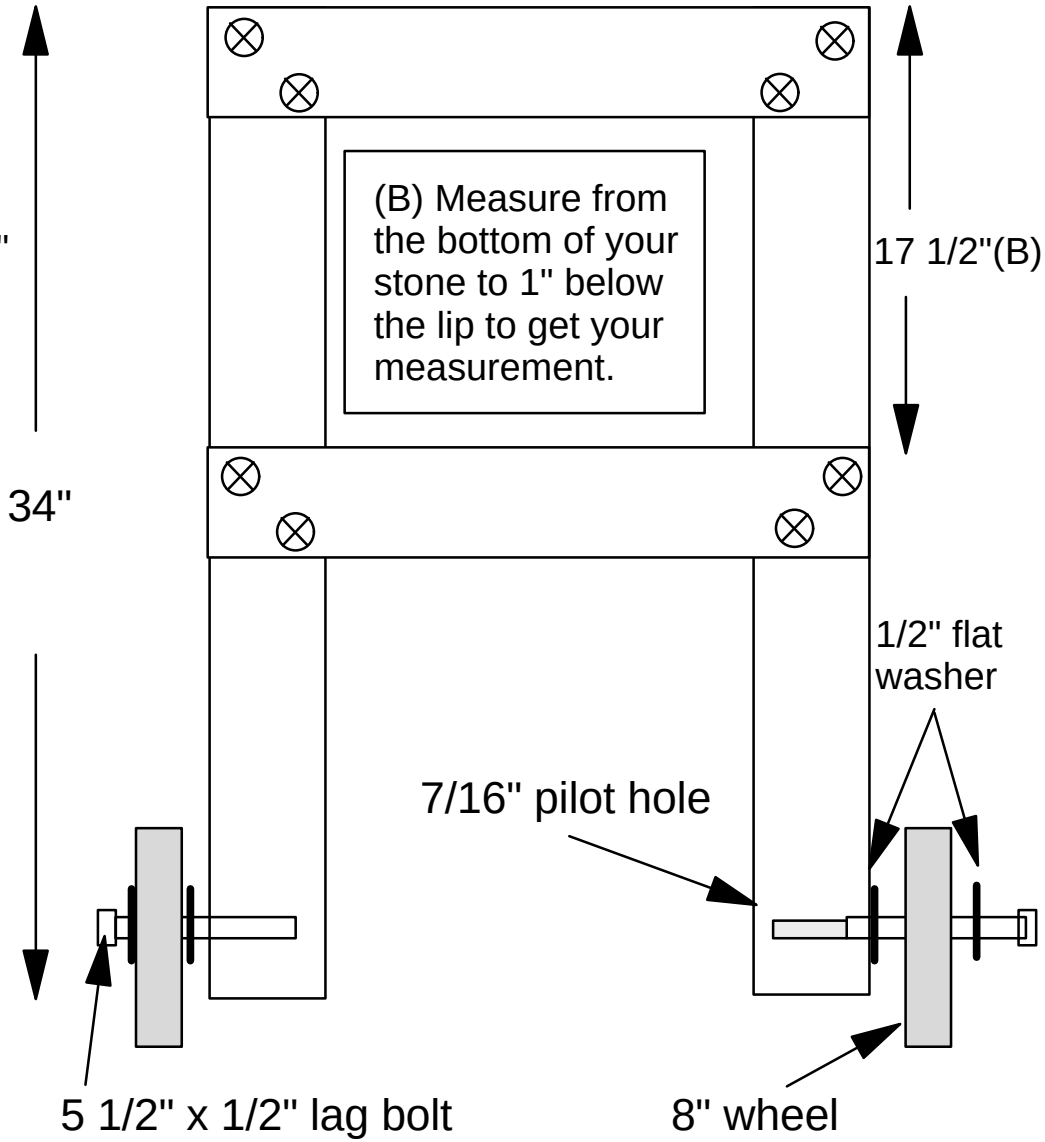
END FRAMES

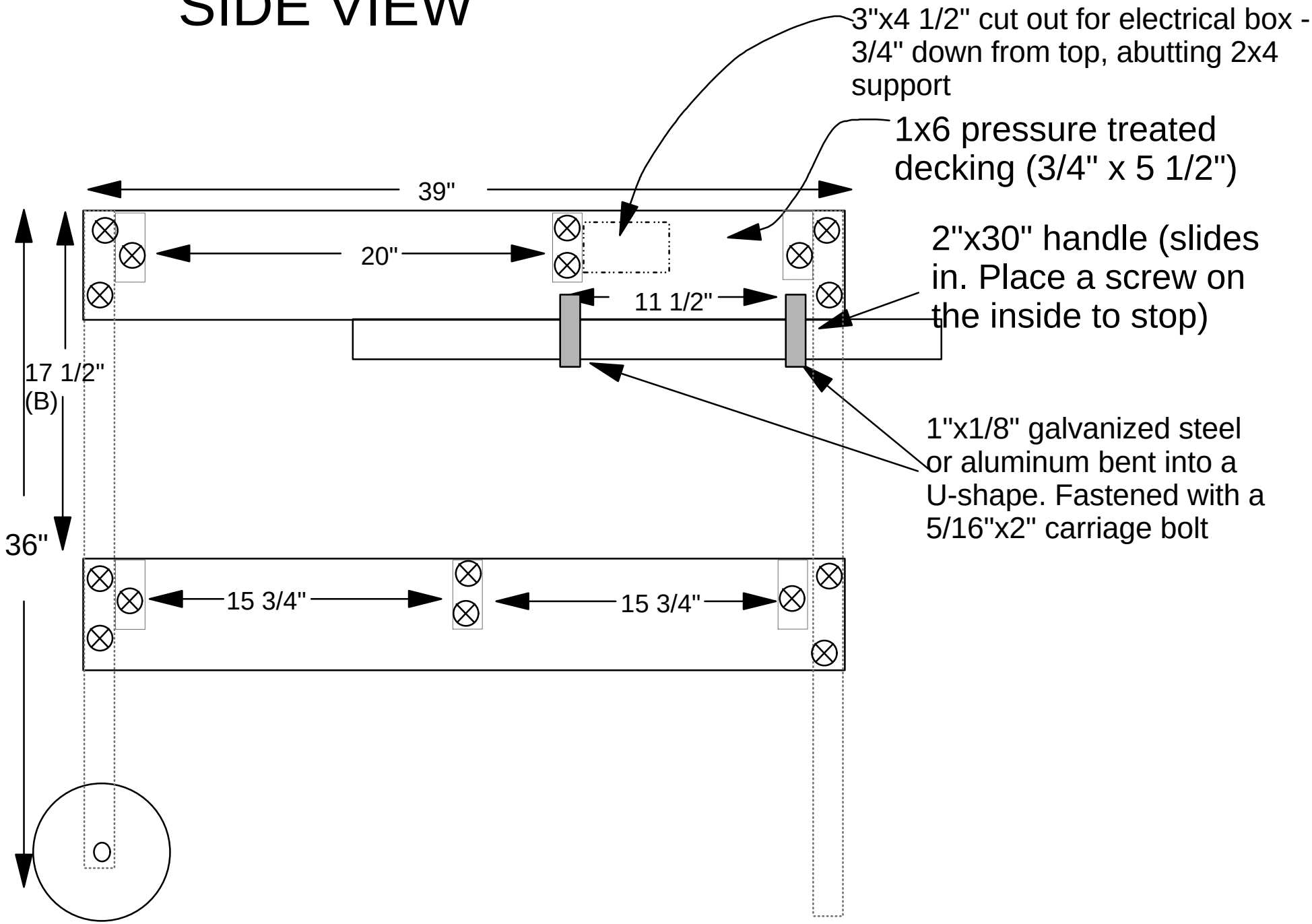
End frames built using pressure treated 2x4 (1 1/2" x 3 1/2")





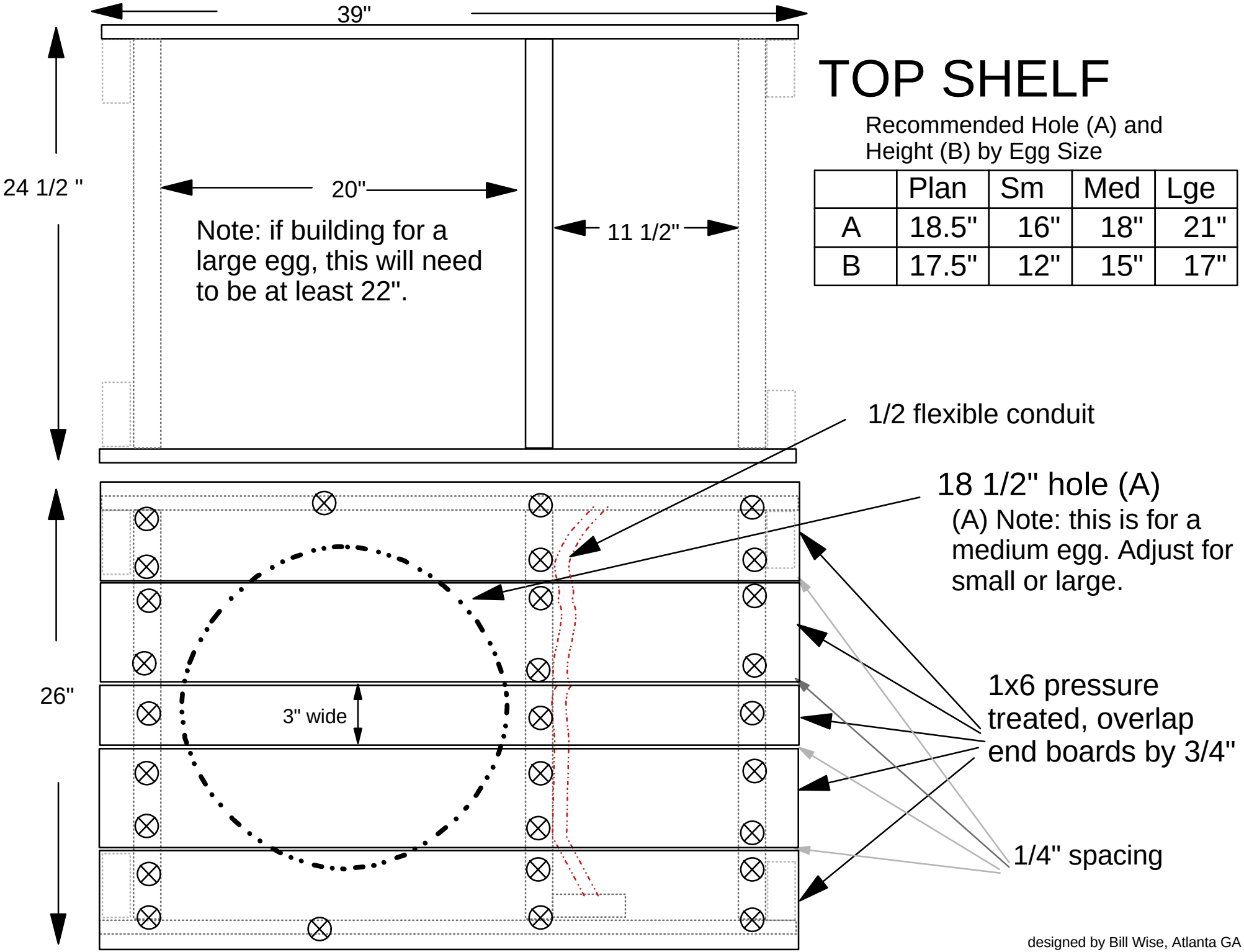
designed by Bill Wise, Atlanta GA

SIDE VIEW



designed by Bill Wise, Atlanta GA

TOP SHELF

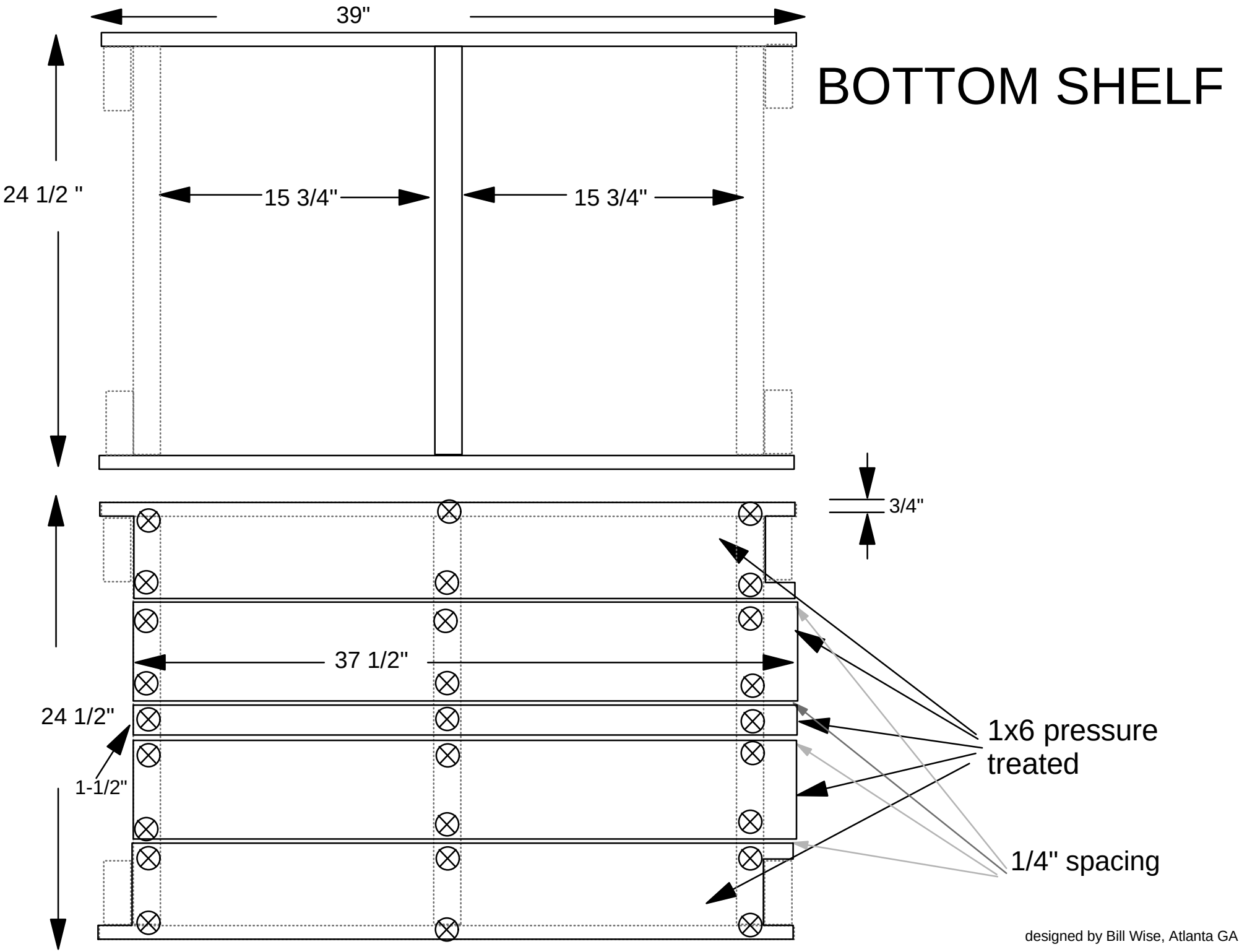


Recommended Hole (A) and Height (B) by Egg Size

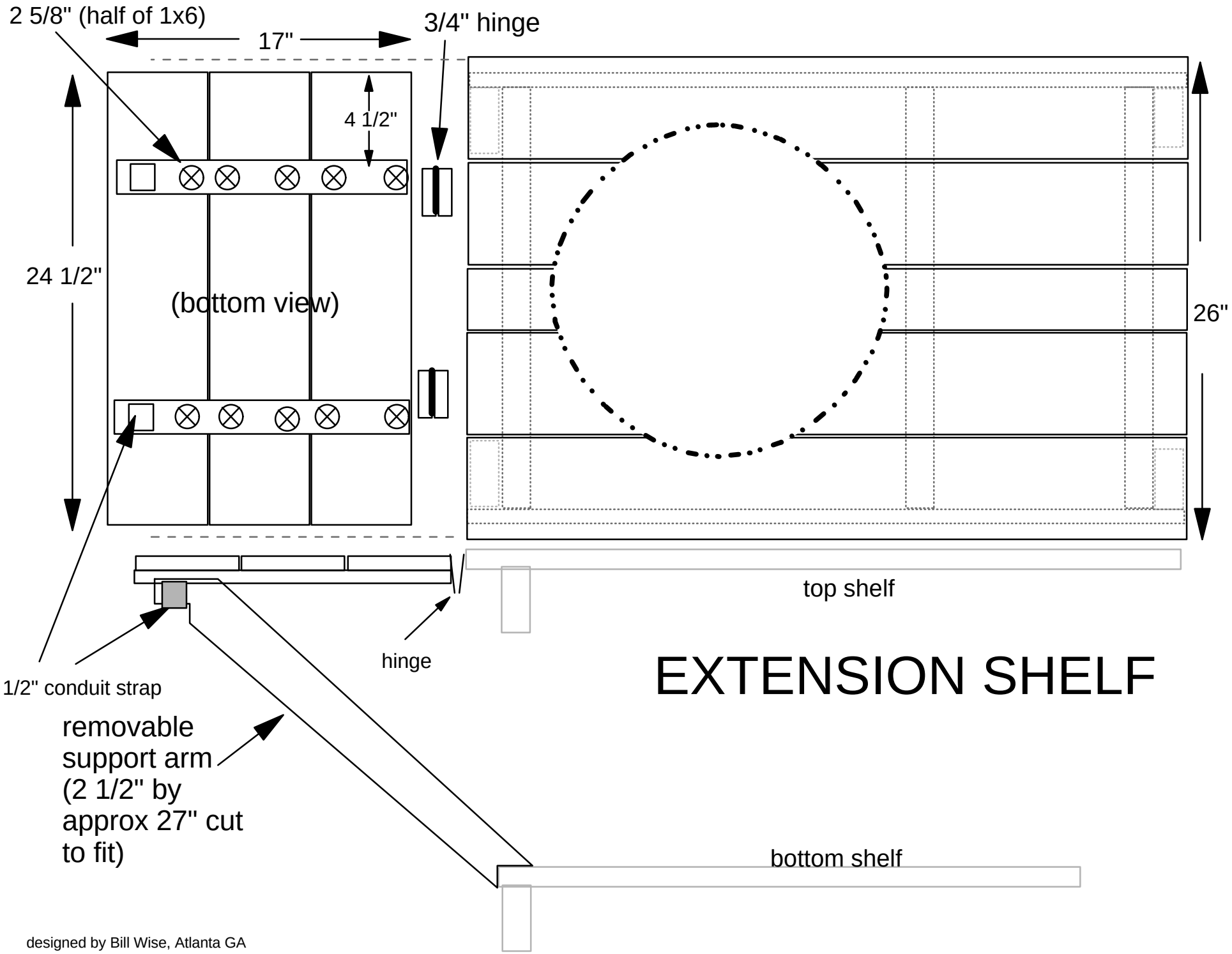
	Plan	Sm	Med	Lge
A	18.5"	16"	18"	21"
B	17.5"	12"	15"	17"

designed by Bill Wise, Atlanta GA

BOTTOM SHELF



designed by Bill Wise, Atlanta GA



EXTENSION SHELF

designed by Bill Wise, Atlanta GA

Materials List

Pressure treated 1x6

actual dimensions 3/4" by 5 1/2"

- 11 - 39" long
  - 1 piece ripped into two pieces 1-1/2" and 3" wide
    - the 1-1/2" piece cut at 37 1/2"
- 2 - 37 1/2" long
- 3 - 24 1/2" long
- 1 - 17" piece ripped in half
- 1 - 27" piece ripped in half
- 1 - 30" piece ripped into 2 - 2" wide pieces

- ✓ Buy 5-10', 1-8'
- ✓ Get 3-39" from each of 3-10' pieces
- ✓ Get 2-37 1/2", 17" and 27" from 1-10'
- ✓ Get 2-39", 1-30" from 1-10'
- ✓ Get 3-24 1/2" from 1-8'

Pressure treated 2x4

actual dimensions 1 1/2" by 3 1/2"

- 6 - 23" pieces
- 2 - 36" pieces
- 2 - 34" pieces

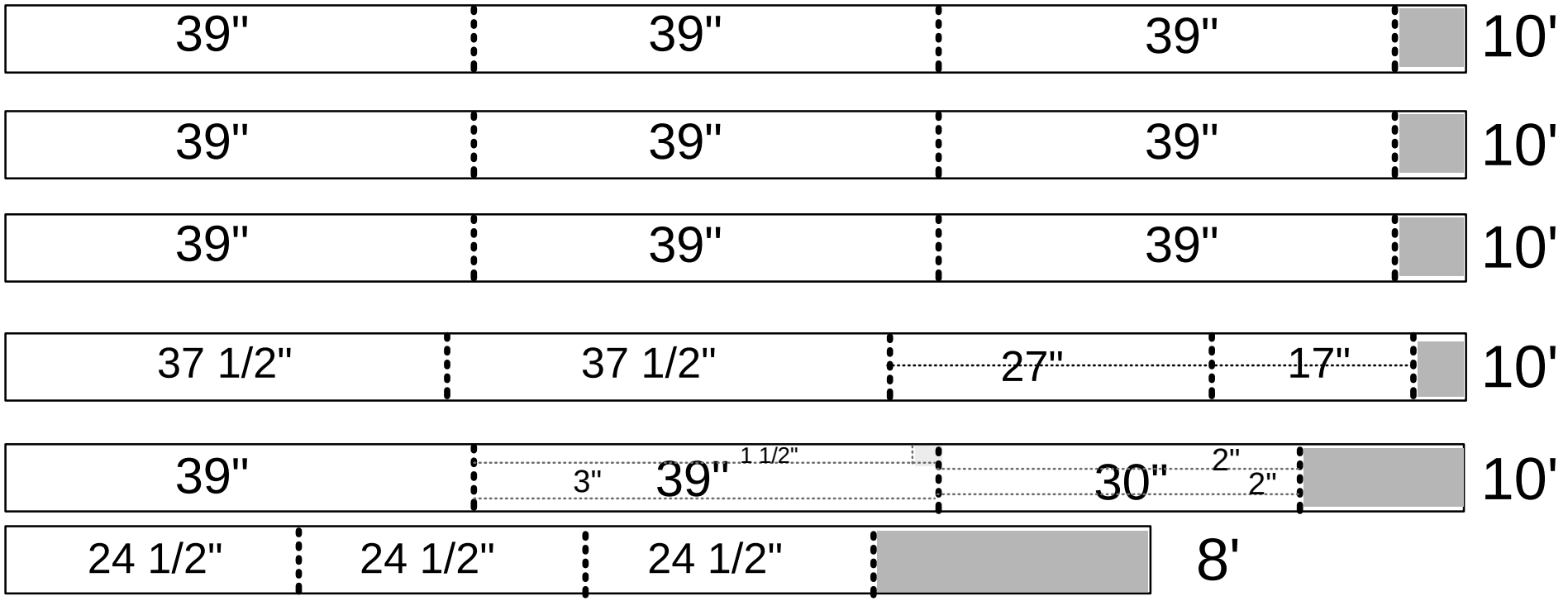
- ✓ Buy 3 - 8'
- ✓ Get 1-36", 1-34", 1-23" from each of 2 8'
- ✓ Get 4-23" from the last 8'

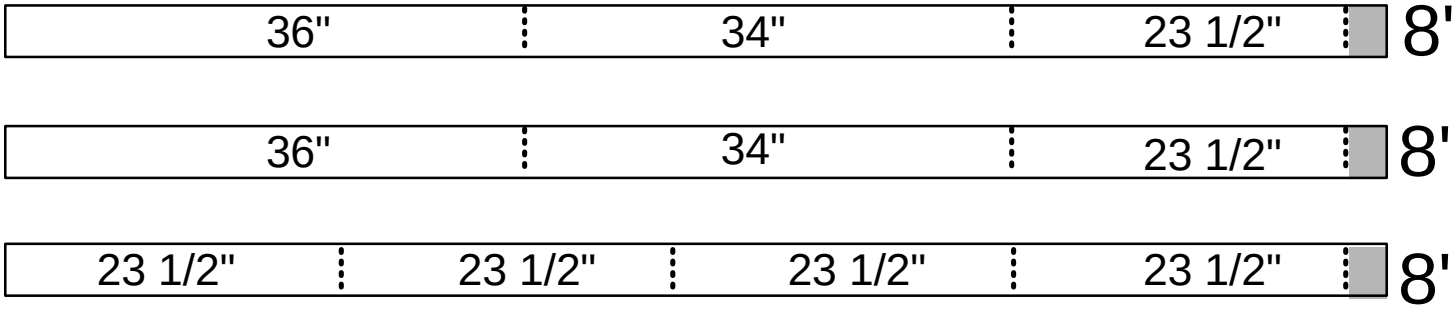
OTHER

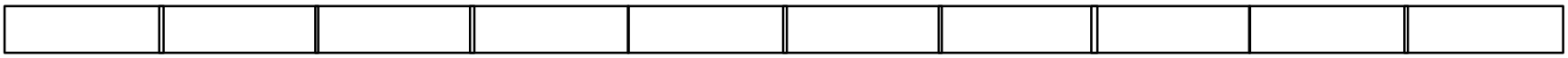
- 2 - 8" wheels
- 2 - 1/2"x5 1/2" lag bolt (make sure they fit through the wheels)
- 4 - 1/2" washers
- 4 - 1/8"x1"x8" flat galvanized steel or aluminum
- 4 - 2"x5/16" carriage bolts with nuts and washers (8)
- 1 - box 1 5/8" decking screws
- 1 - box 2 1/2" decking screws
- 5 - 1/2" conduit straps (3 for conduit, 2 for extension)
- 2' flexible 1/2" conduit
- 1 outdoor electrical box with outdoor plugs (male and female) and cover
- 25' #14 outdoor electric cord with ground
- miscellaneous screws for attaching straps and bottom pieces to extension

designed by Bill Wise, Atlanta GA

CUTTING PLAN







Instructions for a Rolling Table for a Medium BGE to be covered with a medium Cover

1. Cut all pieces according to the materials list. Sand the edges round at this point if you wish. It will save time later.
2. Take one 39" 1x6 and cut an opening for the electrical box. Cut the opening 3/4" from the top edge 25" from the far end. Even though the board can be flipped and used in either position, you may wish to pause a while and think about which side you want to be the front. The opening should be 25" away from the wheel side of the table.
3. Take the two 34" 2x4 and drill a 7/16" pilot hole into the edge 2" from the bottom of the 2x4. Drill the hole 3" deep.
4. Assemble the end pieces.
- Take two of the 36" 2x4's and lay flat.
- Take one 23" 2x4 and using 2 1/2" decking screws, fasten the 23" board to the top end of the 36" pieces. Use one screw until you make sure the pieces are square.
- Take another 23" 2x4 and fasten across the 2x4s at a point 17 ½ " from top to top. (It should be 14" between the 2x4's). Note that the 17 ½" is based on measuring from the bottom of your stone to 1" below the lip of the egg. For a medium egg this may be as little as 15".

5. Repeat the process using the 34" pieces (making sure the pilot holes are both toward the outside.)
6. Attach the side pieces to the end-frame.
- Stand the end frames on their sides approximately 3' apart. Make sure the 23" cross pieces are on the inside. Place the 34" frame on the left (assuming you want the wheels to be on the left when standing at the BGE).
- Take the 39" 1x6 with the opening for the electrical box and place it such that the opening is closer to the 36" frame. Fasten it with one screw to each frame such that the end of the board is flush with the vertical 2x4s.
- Place another 36" 1x6 across the frame such that it is flush with the top of the 2x4 on the top side and flush with the edge of the vertical 2x4 on the end. Again fasten with one screw. Make sure the pieces are all square and then fasten with two more screws in each end.
- Carefully turn the frame over and repeat the process with two more 39" 1x6s.

7. Attach the wheels.
- While on the side, attach one wheel by placing a washer on either side of the wheel and then screwing the 5 ½" lag bolt into the pilot hole.
- Turn the table over and attach the second wheel. Now stand the table upright and the top surface should be level to the ground.

8. Install center supports.
- Take an additional 23" 2x4 support and place 20" in from the left hand (wheel side) support piece. It should be abutting the opening for the electrical box. Attach with one screw (2 ½") from both sides and then square it up and attach with a second screw.
- Attach the cross support piece for the bottom by attaching it in a similar fashion midway (15 ¾" from either side) between the end supports.

9. Install the electrical box.
- Push the electrical box through the opening from the front. It should be snug. If not attach it with screws to the frame.
- Thread the electrical cord through the flexible conduit and into the box.

- Attach the flexible conduit to the box.
- Using the conduit straps, attach the conduit to the center 2x4 support and run to the back side of the table.
- Turn the end down and attach with one last strap on the back side support (1x6) so that conduit opening is held pointing down.
- The plug can be wired and the cover installed.

10. Assemble the bottom shelf.
- Take 2 39" 1x6 and mark the cut out for the ends. One end should be cut with a U-shaped cut so that it fits flush along the edge and around the vertical 2x4 extending past the 23" 2x4 support. The other end should be cut so that it is flush on the outside but on the inside it should be flush with the 23" 2x4. Attach with one screw in either end, make sure the table is square (by this time it will be difficult to not be square) and then attach with a second screw (1 5/8" screws are sufficient) at each end and on the middle support.
- Place a 37 ½" 1x6 ¼" away from the outside pieces. Attach with two screws at each support.
- This should leave a space of approximately 2". Take the ripped 1-½" piece of 1x6 (cut to 37 ½") and attach with one screw to each support leaving a ¼" gap between all boards.

11. Assemble the top shelf.
- Starting with the front edge, place a 39" 1x6 such that it overlaps the front edge by ¾" . (use a scrap piece of 1x6 to align it.).
- Fasten it with two screws in each end and two screws into the middle support.
- Leaving a gap of ¼", attach the next board.
- Repeat the process starting from the back side.
- This will leave a gap of approximately 3 ½". Use the remaining 3" ripped piece of 1x6 leaving a gap of ¼" on either side. Attach with one screw in all three supports.

12. Cutting the hole.
- Find a scrap piece of 1x2 at least 10" long.
- Drill a small hole (big enough for a decking screw to pass) 9 ¼" (or half your desired hole diameter) from one end.
- Push the decking screw through the hole and experiment by swinging the scrap around to find exactly where you want the center to be. When you determine where it will be, fasten the wood lightly to the table top with the decking screw.
- Use a pencil on the other end of the wood scrap to scribe a circle to be cut.
- Using a jigsaw, cut along the scribed line.
- Sand the edges round to give a finished look.

13. Assemble the extension table.
- Lay the three pieces of 24 ½" 1x6 on a flat surface.
- Lay the two 17" pieces of ripped 1x6 across the 1x6 pieces approximately 4 ½" in from the edge.
- Fasten with one screw into each board (you will need to use 1" wood screws here.)
- Make sure all is square and put an additional screw into each board.
- Attach a plastic conduit strap approximately 1 ½" in on each of the support boards.

14. Attach the extension table.
- Attach a ¾" hinge along the edge of the extension table with the pin side down. Align it so that a screw hole does not line up with the gap in the table top.

- Attach the hinges to the table top using screws as long as possible (pilot holes are a good idea here.) Because of the size of the screw holes in the hinge, the screws are not going to be very long but longer is better here.
- Using the pieces of 27" ripped 1x6, cut a notch in the bottom that fits the bottom shelf and whittle the top piece to fit through the conduit strap.
- When properly fitted this will provide ample support for the table. Also the table will fold nicely along side (with the supports fitting inside the legs) so as not to take up too much room when putting the cover in place.

15. Attaching handles.
- Drill a ¼" hole in the end of the flat metal pieces.
- Using a scrap piece of 1x6 screw the metal to the scrap so that 3 ½" of the metal are on the board.
- Bend the metal around the scrap so that it forms a U-shaped strap.
- Loosen the screw, enlarge the hole to 3/8" and drill a hole through the other side of the strap.
- Place the handle (piece of 2" x 30" (ripped from 1x6)) beneath the top side support.
- Place a strap around the handle and onto the side support directly below the support pieces.
- Drill a 5/16" hole, insert the carriage bolt, place a washer between the back side of the support and the strap and fasten the nut on the bolt. Tighten the nut so that the strap does not swing freely.
- The handle should now slide smoothly back and forth. Place a screw on the inside of the handle so that it can only be pulled out about 15".
- Sand the ends of the handles rounded on both sides so that they are comfortable to hold. The bottom edge of the handle may also be rounded so that it slides in the U-shapped bracket easier.

16. Finish sanding all edges smooth. Sand the corners of the table top even more rounded to facilitate getting the cover on and off. Stain if desired and then enjoy.

Tool Notes:
1. It really helps to have a good table saw but all the cuts can be made using a Skill-saw.
2. A jig saw is nice for cutting the notches in the end pieces of the bottom shelf but can be done with a small hand saw as well.
3. An electric screw driver is almost a necessity for driving the decking screen. A second drill with a combination countersink pilot bit makes the process much faster.
4. Glue can be use but with enough screws it really is not needed.

You may also wish to view the BGE site for the table plans there.
Http://biggreenegg.com/table-plan.htm

They have some measurement information that is useful for working with different size eggs.