Pea Fence Materials List:

All lumber is cedar.

4 ea. - 2" x 4" x 8'
34 ea. - 2" x 2" x 42" Deck balusters
8 ea. -¼"-20 x 3 ½" Carriage bolts
8 ea. - ¼" Steel washers
8 ea. - ¼"-20 Wing nuts
75 ea. - ½" Diameter screw hooks
3lb. - #8 x 2-½" Deck screws
1lb. - Galvanized electrical staples
20' - ¼" x ¼" x 3' Galvanized wire screen
200' -14-gauge Galvanized wire

Tools Needed:

Clamps
Drill motor and bits
Hammer
Screwdriver
Table saw with miter angle
Tin snips for cutting wire mesh
Chop saw (optional if no miter angle on table saw)

Assembly for Utilitarian Model:

Prepare parts:
1. Measure 2" x 2" to find true dimension (typically approx. 1-⅝" square)
2. Rip cut 2" x 4" x 8' pieces to match dimension in step 1
3. Cut 22 - 2" x 2" x 33" pieces
4. Cut 4 - 2" x 2" x 6' pieces
5. Cut 4 - 2" x 2" x 69" pieces
6. Cut 24 - Corner braces (see illustration)
7. Cut 8 - Gate latches (see illustration)

Assemble parts: (Assemble on a paved or hard, flat surface)

Part A — Make 2 each
Assemble, as shown. Pre drill screw clearance holes in 33" top and bottom pieces ¾" in from ends and centered on board.
Place one deck screw in each clearance hole and screw to adjoining 69" pieces.
Place corner braces in one corner so that main frame boards fit tight to the 45-degree angle cuts.
See illustration for screw placement. Repeat for all corners.

Part B — Make 2 each
Assemble, as shown. Pre drill screw clearance holes in 6' top and bottom pieces ¾" and 2 ¼" in from ends and centered on board. Place one deck screw in each clearance hole and screw to adjoining doubled 33" pieces.
Place corner braces in one corner so that main frame boards fit tight to the 45-degree angle cuts.
See illustration for screw placement. Repeat for all corners.
Center and screw a 2" x 2" x 33" piece on bottom of each 6' piece.
Locate and drill the four 5/16" clearance holes for carriage bolts.

Part C — Make 2 each
Assemble, as shown. Pre drill screw clearance holes in 33" top and bottom pieces ¾" in from ends and centered on board.
Place one deck screw in each clearance hole and screw to adjoining 33" pieces.
Place corner braces in one corner so that main frame boards fit tight to the 45-degree angle cuts.
See illustration for screw placement. Repeat for all corners.

Gate latches:

Place and temporarily clamp parts B and C together.

For Part C, separate latch pair. Place one half so that angled edge is in the direction as indicated in the drawing and opposite edge is flush with top surface. Screw to Part C as shown.
Position the other matching half of latch against Part B. Slide it up until angles match.
Screw this half to Part B. This latch keeps Part B tops from spreading apart.

For Part B, using another latch pair, separate, and place one half so that angled edge is in the direction as indicated in the drawing and opposite edge is flush with bottom surface. Screw to Part B as shown.
Position the other matching half of latch against Part C. Slide it down until angles match.
Screw this half to Part C.

This latch keeps the bottom of Part C from being pulled out by animals and unwanted garden visitors.

Repeat for remaining corners.

Add Pea trellis (Part A):

Place one Part A perpendicular between Part Bs. Be sure to position Part A so that carriage bolt holes in the Part Bs are centered in the Part A framework. Temporarily clamp. Using the carriage boltholes as guides, drill through Part A framework. Insert the 3-½" carriage bolts from exterior to interior direction. Install wing nuts and finger tighten. Remove clamps.

Repeat steps for second Part A.

Now that the framework is together, mark each piece in a manner that will help you reassemble the trellis. (I used a flat blade screw driver and made indented marks on each of the adjoining corner pieces with matching Roman numerals, i.e. I, II, III, etc. I also marked Parts A and B at the top carriage bolt location holes.)

Install screening on Parts B and C:

Disassemble trellis completely.

Lay Parts B and C on the floor outside facing up. Roll out screening on top of each piece and cut to length. Nail screening to each frame using electrical wire staples placed at least every 3 inches.

Make a Wire Grid on each Part A to create a place for peas to climb:

Mark where screw hooks will be placed. To do this, lay Parts A on the floor so that the two long ends are the top and bottom, and the short sides are left and right. Starting from the left side of the long pieces, make a mark every 6 inches on the interior of the frame and center the mark so that the screw hooks will be placed properly to hold the 14-gauge Galvanized wire.

Mark left and right hand sides (short sides). Find center of side. Mark center, then mark 6" in each direction from center.

Place one screw hook at each centered mark and tighten until all threads are hidden in wood.

Reassemble Parts A and B.

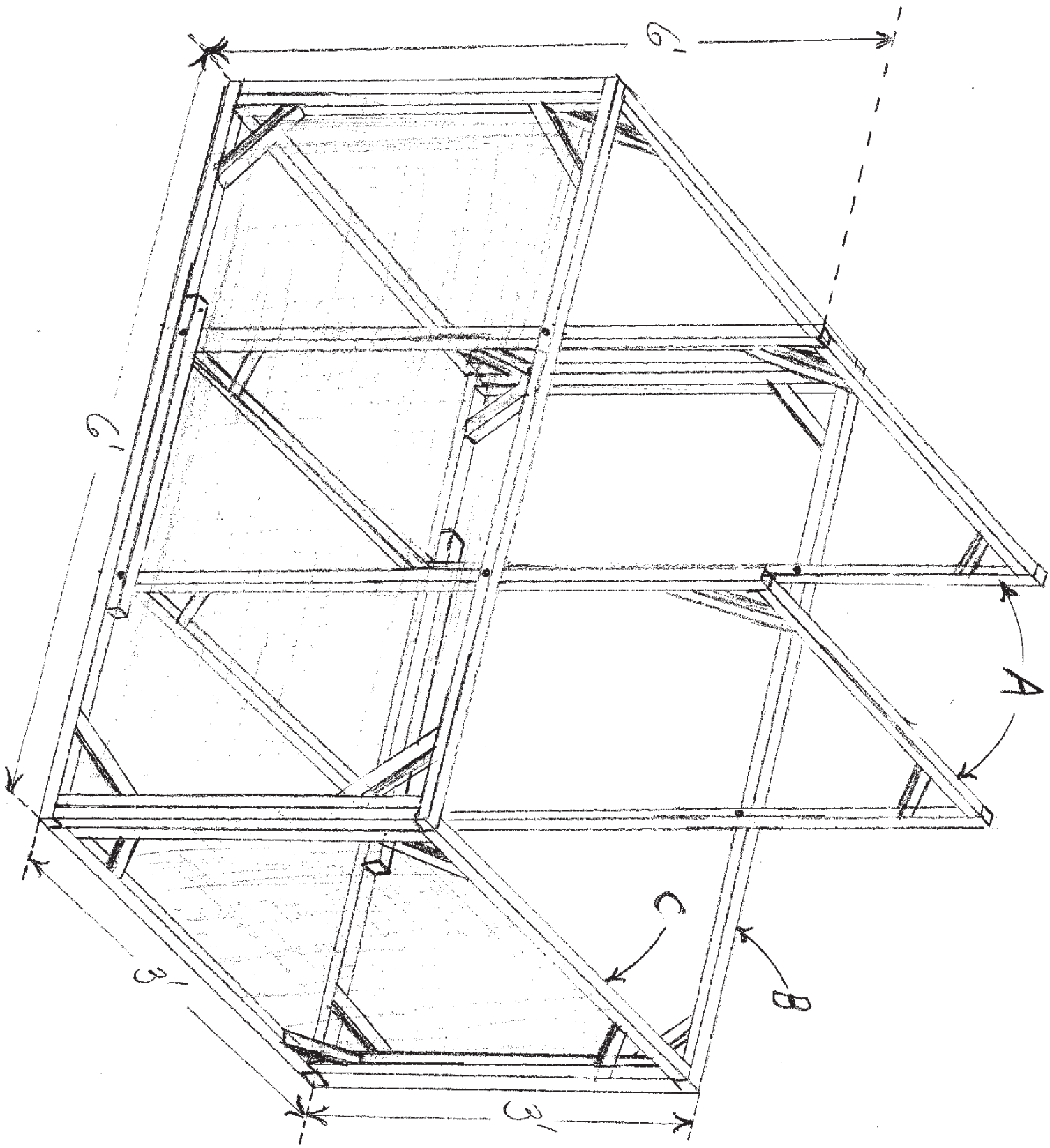
Secure wire to the bottom most hook on a Part A upright piece. Lace wire horizontally between uprights of same Part A, turning hooks as necessary to avoid the wire popping off the screws. Twist and secure wire on last hook used. The wire should not be pulled taunt between hooks. (This could cause the frame to lose its shape and make it difficult to reassemble.)

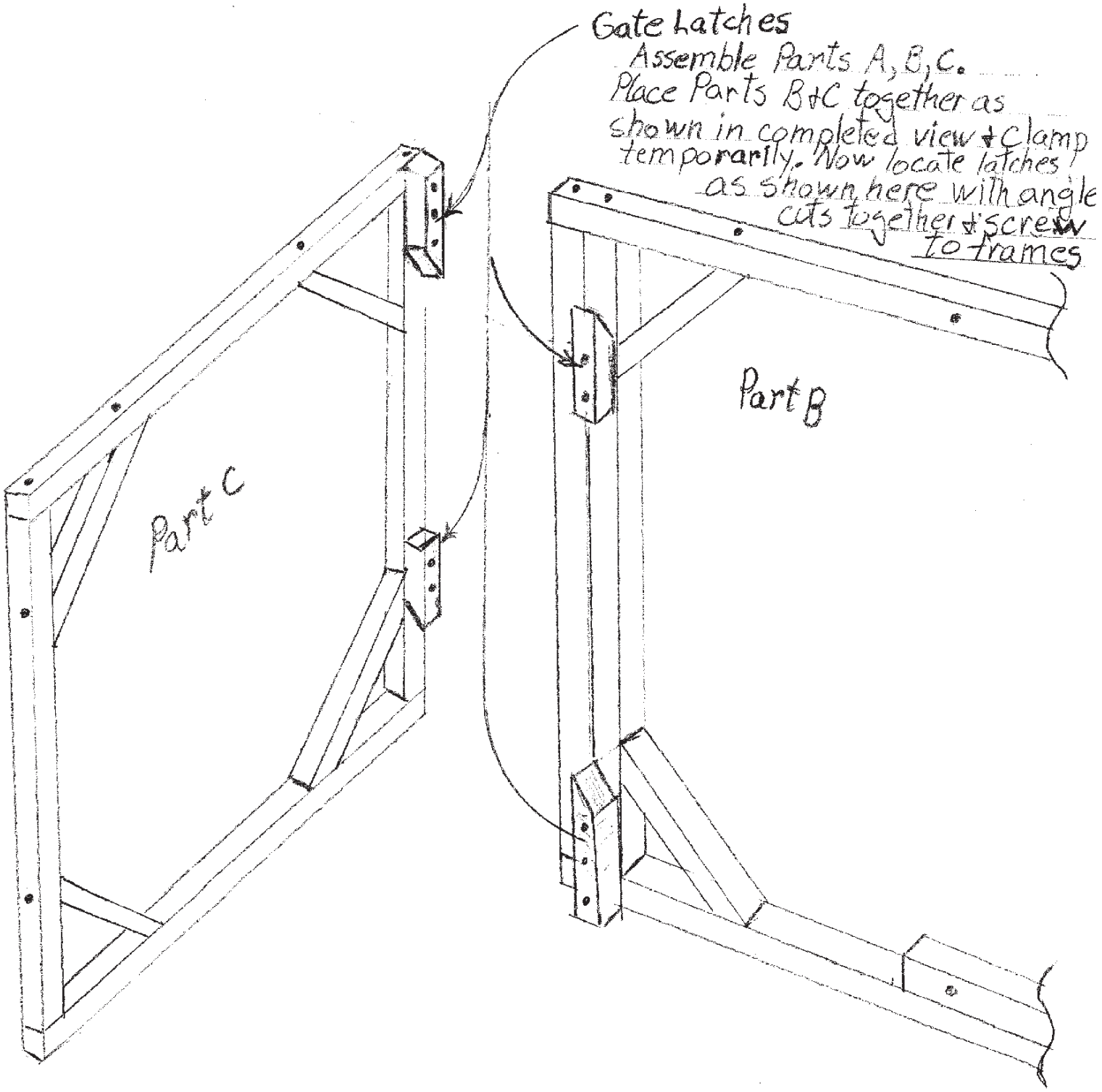
Similarly, lace wire up and down between top and bottom of same Part A to form a grid for climbing peas.

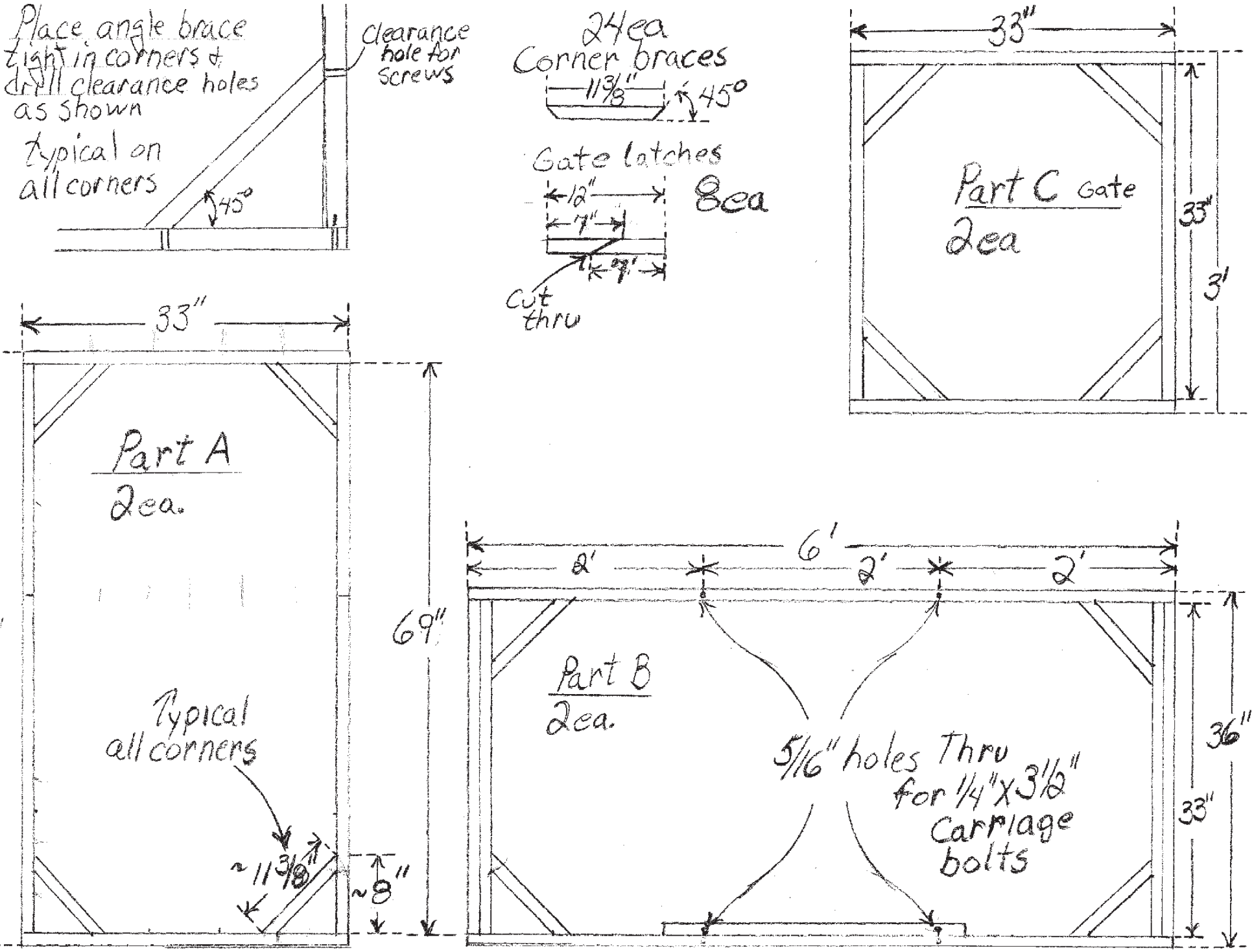
Add Parts C to Parts A and B.

Enjoy your peas protected from rabbits and other animals!

For a Fancy Pea Trellis, as pictured, lace copper wire for the grid.


6'
6'
A
C
B
3'
3'


Gate Latches
Assemble Parts A, B, C.
Place Parts B & C together as shown in completed view & clamp temporarily. Now locate latches as shown here with angle cuts together & screw to frames
Part B
Part C


Place angle brace tight in corners & drill clearance holes as shown
Typical on all corners
45°
clearance hole for screws
24ea
Corner braces
11 3/8"
45°
Gate latches
8ea
1/2"
7"
9"
Cut thru
33"
Part C Gate
2ea
33"
3'
33"
Part A
2ea.
6'
69"
Typical all corners
~11 3/8"
~8"
6'
2'
2'
2'
Part B
2ea.
5/16" holes Thru for 1/4"x3 1/2" Carriage bolts
36"
33"

Wire Lacing Layout for Pea Trellis

Part A