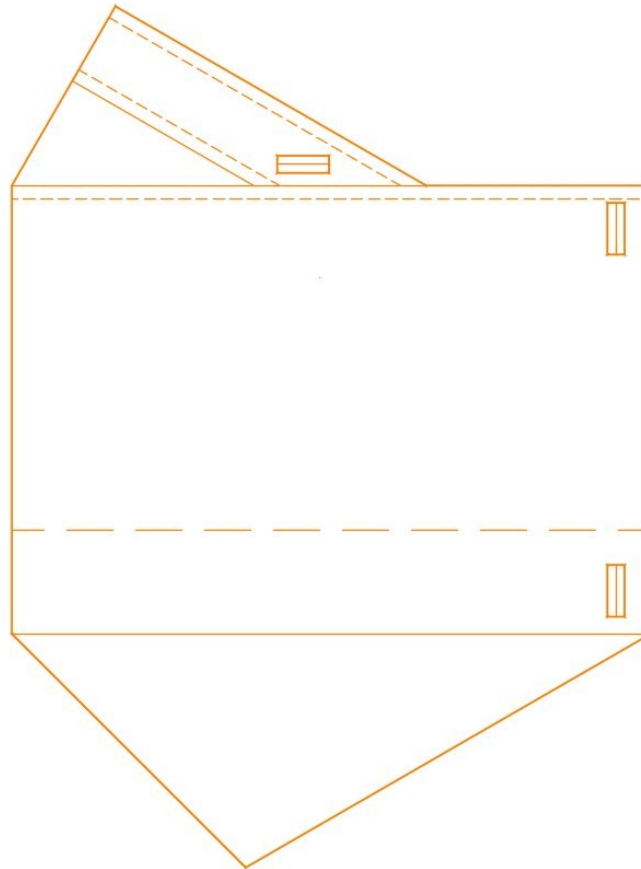


DIY Cup Style Face Mask

With Pleat



Please download and read the document: http://www.keywild.com/facemask/DIY_Cloth_FaceMask_General_Notes.pdf

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Lewis Balentine, Houston, Texas, 15 May 2020

Patterns and Templates

At the end of this document are a series of patterns and templates that can be printed and used to cut out or mark the fabric. all drawings are at full scale. Each sheet was drawn in a CAD system and exported as a single US letter size page to the PDF file format before being appended to this document. Therefore they have a different numbering system that goes from sheet 1 to 6. The last page is picture of a completed mask.

Sheet	Description	Remark
1	Main face mask pattern with dimensions (2 required)	
2	Main face mask internal seams	
3	Main face mask external seams (<i>after turning right sides out</i>)	
4	Nose piece pattern (1 required)	
5	Nose piece, first fold and button hole, external seams	
6	Side view of completed mask	
	Pictures	

Construction

I said I was not going to do one these ... too much like work and there are already numerous examples and patterns available. However I was looking for 'Cup Style' mask that did NOT have a seam down the middle of the nose and would NOT fog up my glasses. So I started from scratch ... again. This design conforms very well to the face. The sides are flat and the portion under the chin tends to form a good seal as well. That good seal can make the mask harder to breath through. It is not recommended to be worn during vigorous or even moderate exercise.

There are a about ten steps in construction of this face mask.

- 1) Cut out the mask panel material, align, iron, and sew internal seam with right sides facing each other. I cheat by using 'wonder clips' to hold the patter to the two pieces of cloth and sew right through the paper along the stitch lines. This gives me

straight seams and precise angles. *Hint: skip a stitch or two at each of the corners.* Then I remove the paper and trim the excess fabric away (*with pinking shears if you have them*). I leave about 1/4 inch of material along the sides and bottom with about 1/2 inch along the top. Be sure to nip the corners closely.

2) I use basting tape to fold the top edges down on each side. One could use temporary sewing adhesive or even Elmer's glue stick just as well. Just use something to align, fold and hold these edges in place.

3) Turn the main mask right side out. be sure to 'poke the corners out (*having skipped a stitch at the corners helps*). Then iron this bit flat.

4) Measure and mark the location of the pleat lines from the bottom corners (*3/4 of an inch*). Iron these pleats flat and secure with 'Wonder Clips'. Sew a narrow 'pin tuck' along the bottom edges of the outside folded pleat. Sew a short 'pin tuck' (*about 2 inches*) along the top edge of inside folded pleat leave the center portion free to 'roll' as needed. This last pin tuck helps the pleat to close when someone closes their mouth.

5) now we turn to the nose piece. Fold the cloth along the long center line and iron it flat. Carefully mark the location of the button hole along a 30 degree angle. Sew a button hole from 3/8 to 1/2 inch long. Then fold the 5/8 inch of the material over and flip the cloth so that the button hole is on the right side facing you.

6) Now sew two horizontal seams 1/8 inch from the top and bottom folds. These form the nose piece pocket.

7) Sew two seams crossing the 1-1/2 inch point on the center line at 30 degrees. The ONLY reason for these seams is to have something to line up with the main portion of the mask. Note that the seams extend just a bit beyond the center line. This helps to avoid a pucker at bottom of the nose piece. Trim away the excess fabric (*with pinking shears if you have them*) .. leave about 1/2 inch of fabric below the angled seams.

8) Now comes the difficult bit and where I make full use of 1/4 inch wide 'wash-away' basting tape. I place a piece of this about 1/8 of an inch below each the angled seams on both the front and back of the nose piece ... leaving the paper backing in place. If you look at the drawing then you will note the 3 inch dimensions with the circles around them. These are the match points between the nose piece and the main portion of the mask. I start by putting the nose piece inside the mask envelope and aligning the the center lines. Then I remove the paper backing from the front of one side of the nose piece and align the seam with the front of the mask envelope. I repeat that for the other side and then the back side as well. I manipulate, curse push and

pull the fabric until it correctly aligned (*or as close as I can get*). Then I sew (*over-stitch*) the seam about 1/16 of an inch from the top edge of the mask. Lastly I let out a sigh of relief.

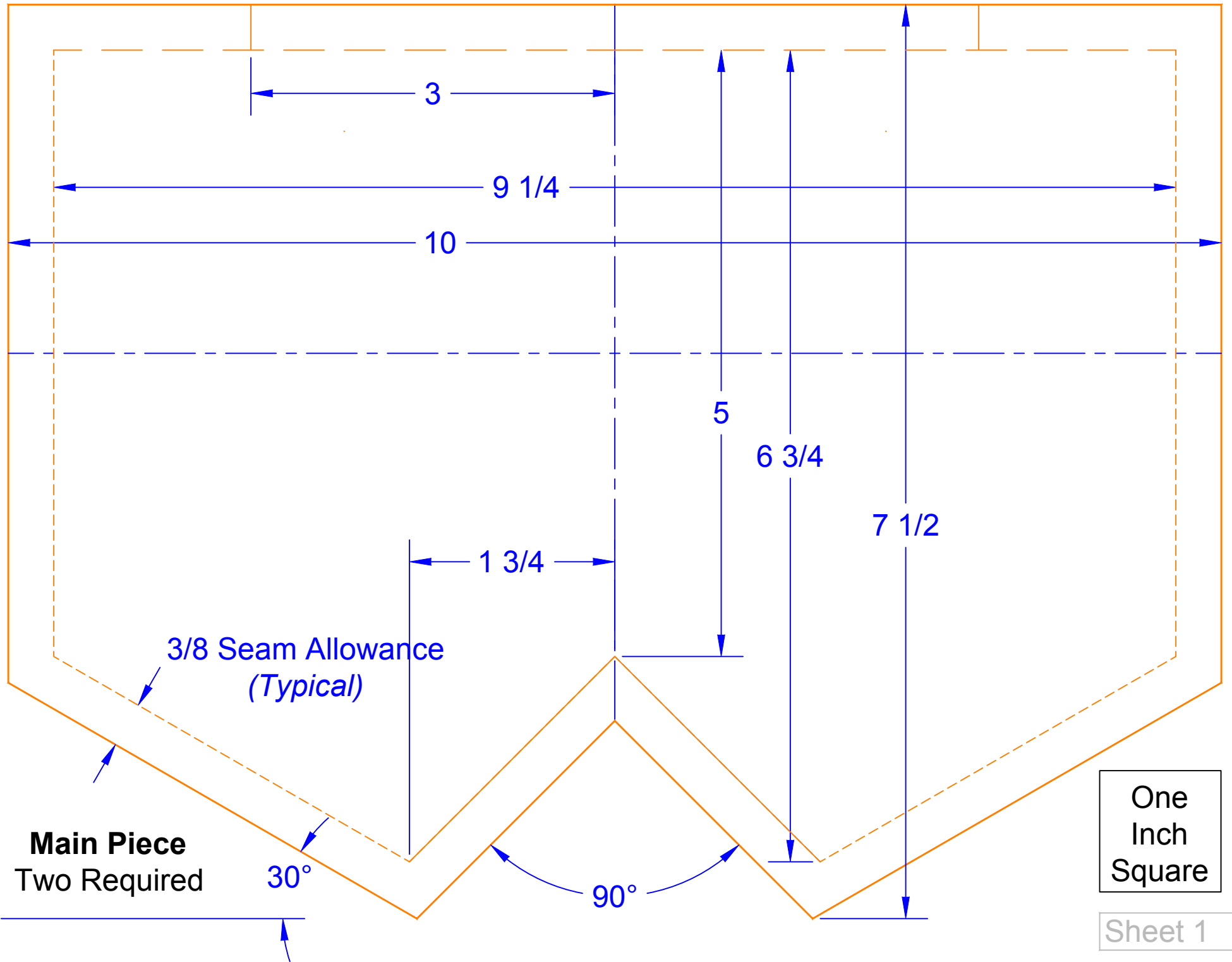
8.a) Depending on your preference you can continue the over-stitch seam all around the outside of the mask. This makes for a stronger mask and in some cases can be a very pleasing aesthetic feature as well.

9) Time for the button holes. Not much to say here except to get them as close to the four corners as you can. Note that the two bottom button holes pass through six layers of material (*double that if you did not trim your inside folds closely*).

10) The last seam is at the very bottom where the two edges are brought together to form the chin. I use a tight (*near 'satin stitch'*) zig-zag seam here with a bit of material across the back of the seam. Actually this is where I use a 'iron-on' label. I have not had much good fortune with 'iron-on' bit so I also run a zig-zig (*not nearly as tightly spaced*) seam around the edge of the backing material.

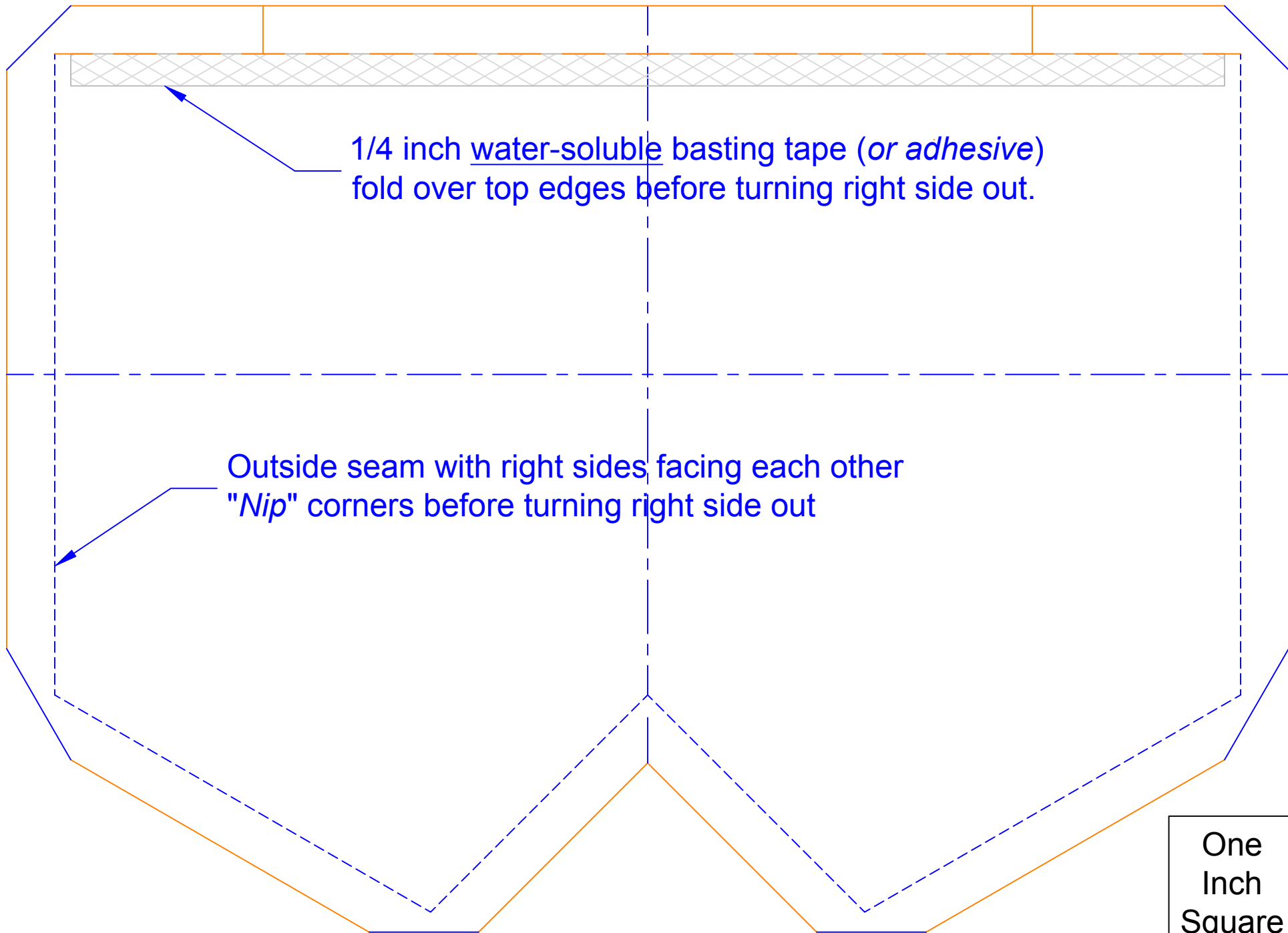
... Laundry and Finish

Put the completed mask through the normal laundry cycle with bleach and fabric softener. Iron as needed. Insert the nose piece (*or not*) and attach your choice of straps.



One
Inch
Square

Sheet 1

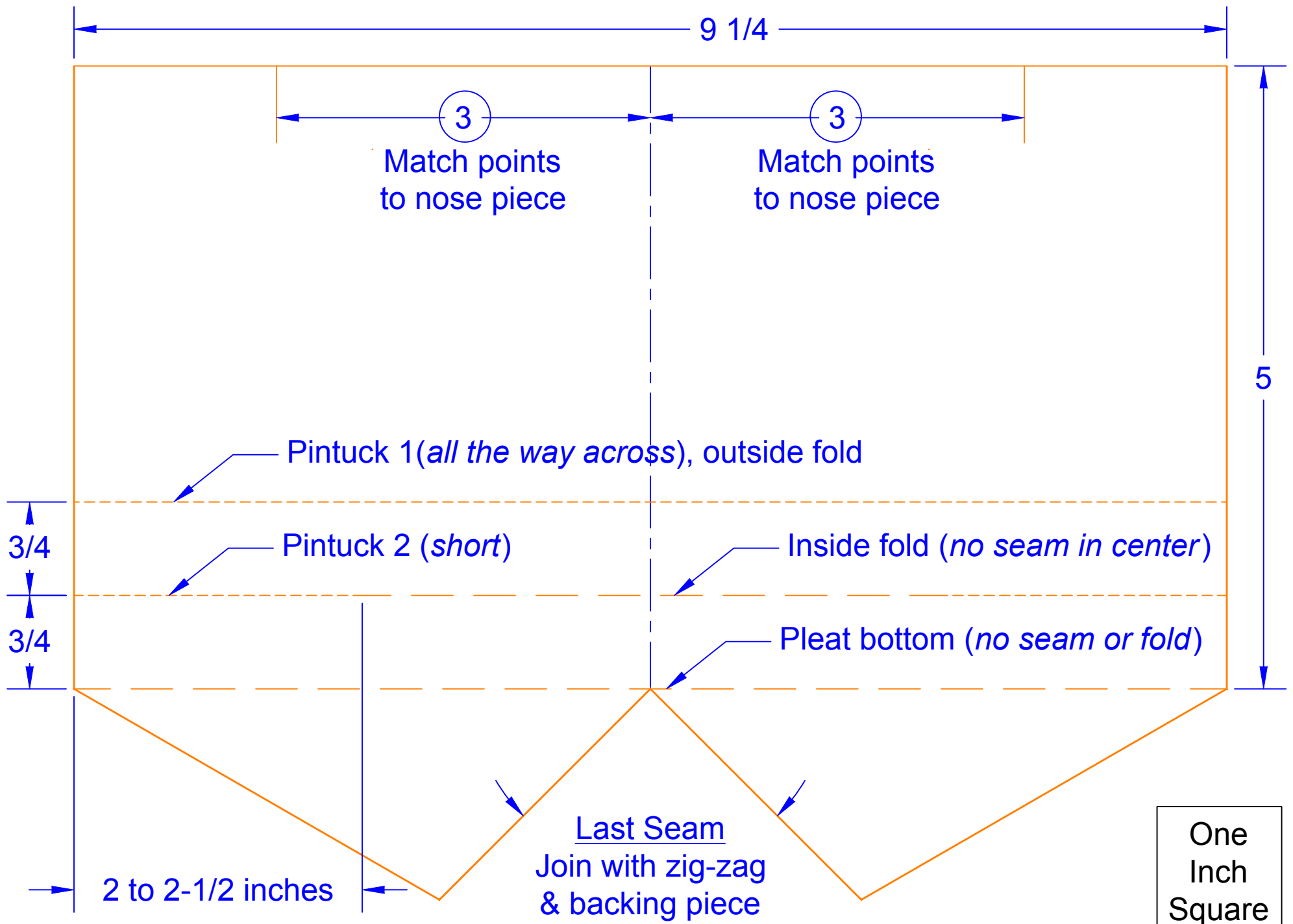


1/4 inch water-soluble basting tape (*or adhesive*)
fold over top edges before turning right side out.

Outside seam with right sides facing each other
"*Nip*" corners before turning right side out

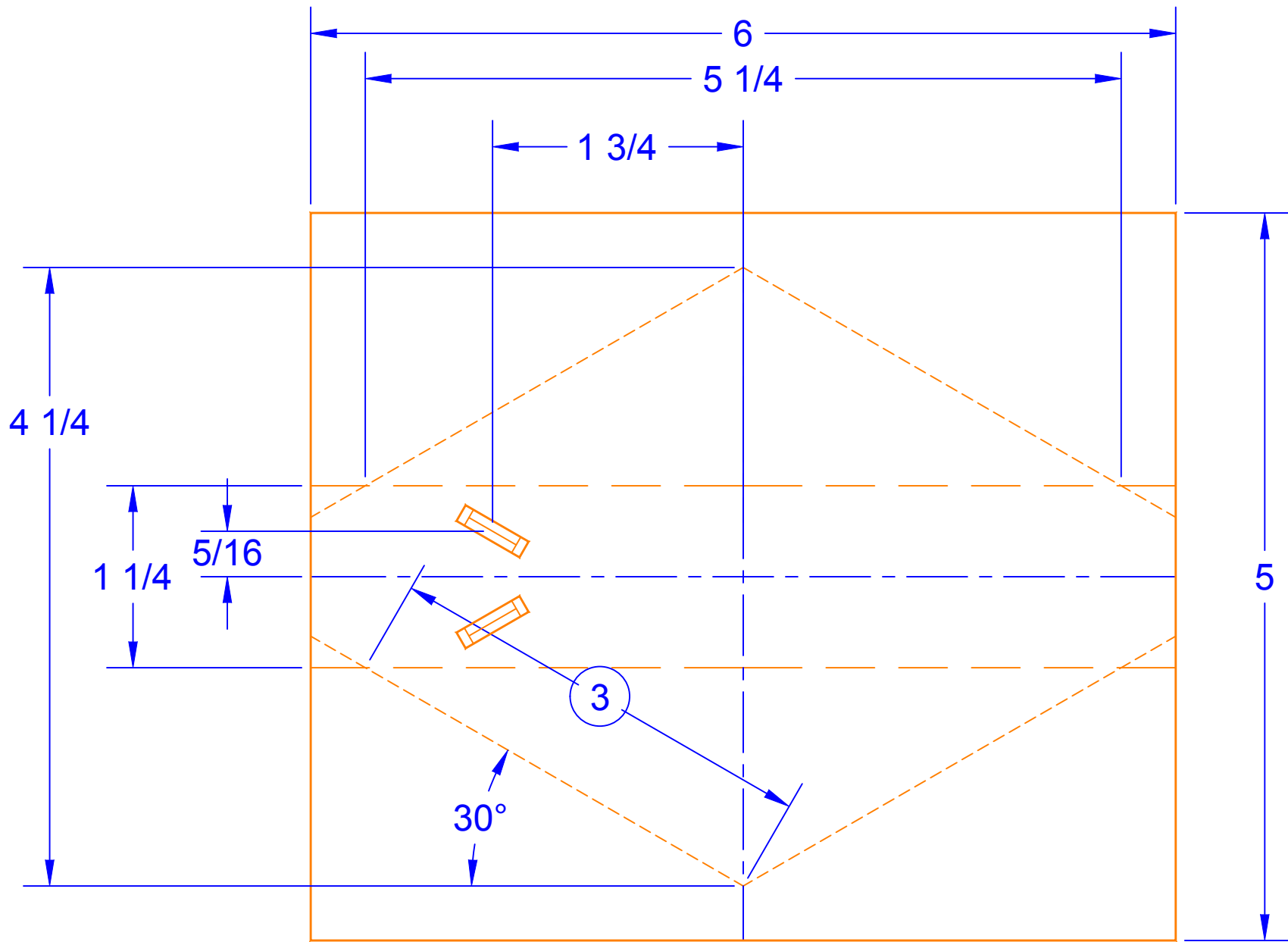
One
Inch
Square

Sheet 2



One
Inch
Square

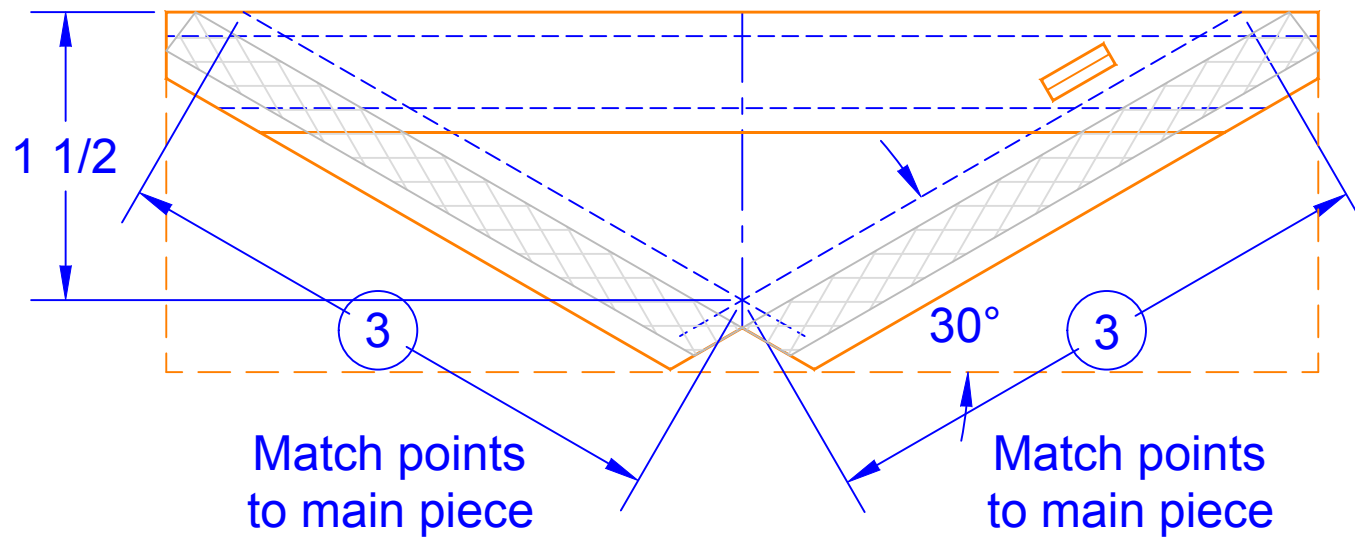
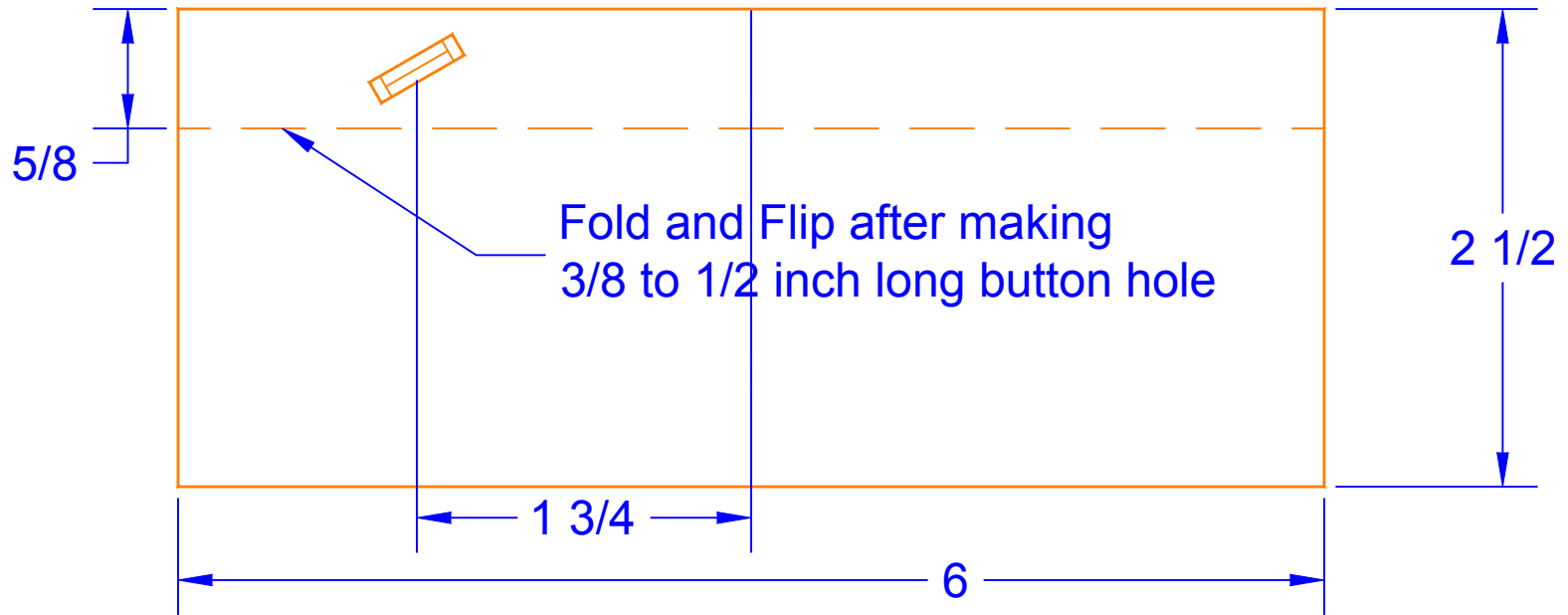
Sheet 3



Nose Piece
 One Required

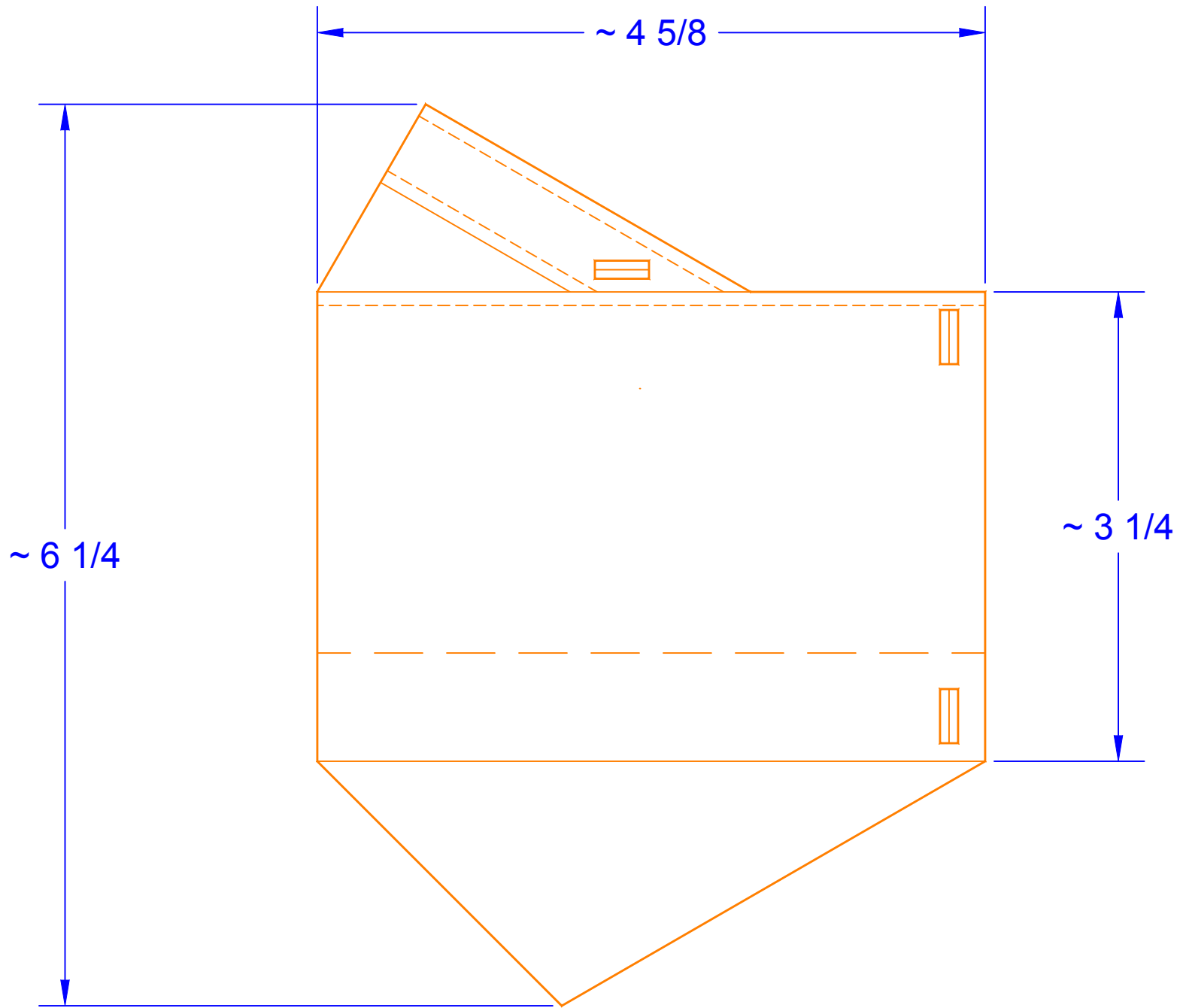
One
 Inch
 Square

Sheet 4



One
Inch
Square

Sheet 5



One
Inch
Square

Sheet 6

