

The Patti Mask (Size medium to large):

Adapted from PROTOTYPE 2 from UF Health for The Free Mask Project of Vancouver



This mask is made of 2 layers of Halyard H500-650 or 3 layers of H300-400 medical fabric. It has a roundish shape and darts to snug the mask under the chin. There is no binding on this mask. The raw edges are top stitched after insertion of the nose wire and attachment of the ties.

The mask has passed the Respirator Fit Test. UF Health INSTRUCTIONAL VIDEOS CAN BE VIEWED AT:

<https://anest.ufl.edu/clinical-divisions/mask-alternative/>

SUPPLIES NEEDED:

- **Halyard H300-600 FABRIC**
 - 2 pieces 10" × 6.5" (H400-600) or 3 pieces (H300)
 - 4 pieces 1" × 20" (these are for the ties)
- **MASK TEMPLATE** provided for a pattern
 - Thick cardstock or other material to make a firm template for tracing
- **16-20 GAUGE CRAFT WIRE** for the nose wire OR 3" x 1/4" **aluminum nose pieces**
 - Cut 1 piece 5" (16-18GA), 2 pieces (20GA). Make a loop at each end of the wire. All loops should face the same way. Press the loops flat with your pliers to make sure there are no sharp edges sticking up. (*Loops are needed to keep the wire from poking through the fabric.*)

Note: If you do not have 16-18gauge wire, use 20-gauge wire, but cut two pieces and make a loop on both ends.

- **TOOLS:**
 - Sewing machine that can do a straight stitch and zigzag stitch. Your presser foot needs to be able to accommodate the zigzag stitch.
 - Ruler
 - Scissors
 - Pins or clips
 - Jewelry pliers that have tapered round ends and cutter or needle-nose pliers and wire cutters
 - Ink pen to trace the pattern onto the fabric
 - EXTRA HELPFUL: cutting mat, long ruler and rotary cutter!

Machine setting: 2.5 stitch length or whatever the “normal” stitch is for your machine. The zigzag stitch setting used is 2.0 length and 7.0 for width. If your machine does not go to 7.0 for width, use the widest setting.

Step 1: MASK TEMPLATE. Print the template and glue to a thin cardboard such as a cereal box or cardstock or use template plastic. The thin “cutting mats” are also good template material. Trace the pattern onto a 10” × 6.5” piece of fabric.

Carefully cut it out. There are cutouts for the two darts. Cut out the darts on the solid line. **DO NOT CUT OUT THE TIE PLACEMENT MARKINGS.**

Layer the two mask pieces and clip.

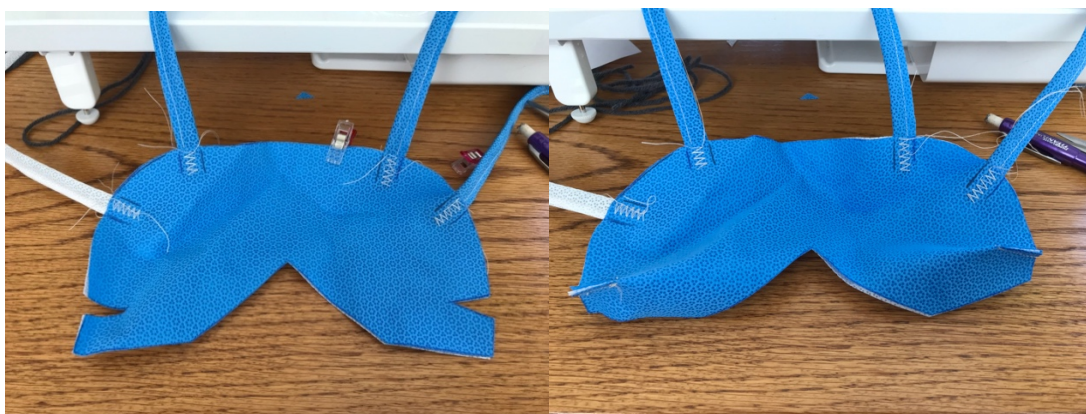
Step 2: Making the mask ties and attaching to the mask.

Take a piece of the 20” × 1” medical fabric. You will be folding the fabric in half lengthwise and sewing with a 3/8” seam. Repeat until you have four ties. Do not worry about the first end as it will be sewn into the mask.

Step 3. Set your machine for ZIGZAG stitch to attach the ties. We used 2.0 for the stitch length and 7.0 for the stitch width. The darts should be cut out and you should have markings for placement of the ties.

Tip: Make a second template and only cut out the tie placement marks. Lay it on the blue side, making marks for easier placement of the ties.

Place the squared end of the tie 3/4” in from the edge, between the two layers at the notch. **LOOK at the template to make sure you place it in the correct place.** Hold together and place under the presser foot. Zigzag stitch from the outside edge of the mask to the end of the tie that’s between the layers; reverse stitch back to the starting point of the stitching. Carefully place and zigzag stitch each tie.



Ties attached.

Darts are sewn.

Step 4: Darts and partial topstitch of the mask. Next, sew the darts. NOTE: SEW THE DARTS ON THE BLUE SIDE! The dart seams will show on the outside of the mask. Fold and sew each dart using a tapering seam from the narrow point of the dart to the bottom ending with 1/4" seam. Backstitch at the beginning and end.

When the darts are completed, sew a 1/4" topstitch from one corner of the mask around to the other corner folding the darts up toward the top as you sew. (Sew from Point A through AB and to Point B). **The other seams are left until last so the nose wire or nose piece can be inserted.**

Step 5: Insert the wire. Your prepared wire should be about 4.5" long. If it is longer, you may need to adjust it as it needs to fit between the ties sewn into the mask. Push it all the way up to the seam made when you topstitched the two layers together and used clips to hold it there. Now you will **CAREFULLY** sew a 3/8" topstitch from Point C to Point D between where the top two ties are sewn in. Position the presser foot so right edge is on the line of the 1/4" topstitching, so you are encasing the nose wire within the 3/8" seam. You want to go slowly so you can control where the wire is. You don't want a broken needle!



Note: If using 20-gauge wire, be sure to make that loop at each end of both wires and push and clip both into position. All ends must have a loop: We don't want to injure wearer!

The wire is inserted between the top two ties. Stitch a 3/8" seam to encase the wire.

Alternative Step 5: Insert 3" x 1/4" aluminum nose piece

In order to give more padding over the nose but to minimize holes in the fabric, make a bag for the nose piece then slip the bag in between the two layers of the mask. Sew the line around the top of the mask to catch the bag.

1. The bag is made using 1 piece of the Halyard measuring 3 1/2" x 2". Cut another piece 3 1/2" x 1" to provide more padding (optional).

2. The bag will stick out above the top a bit. Sew the 1/4" line around the top so you will not need to put on the zipper foot. Trim the excess.

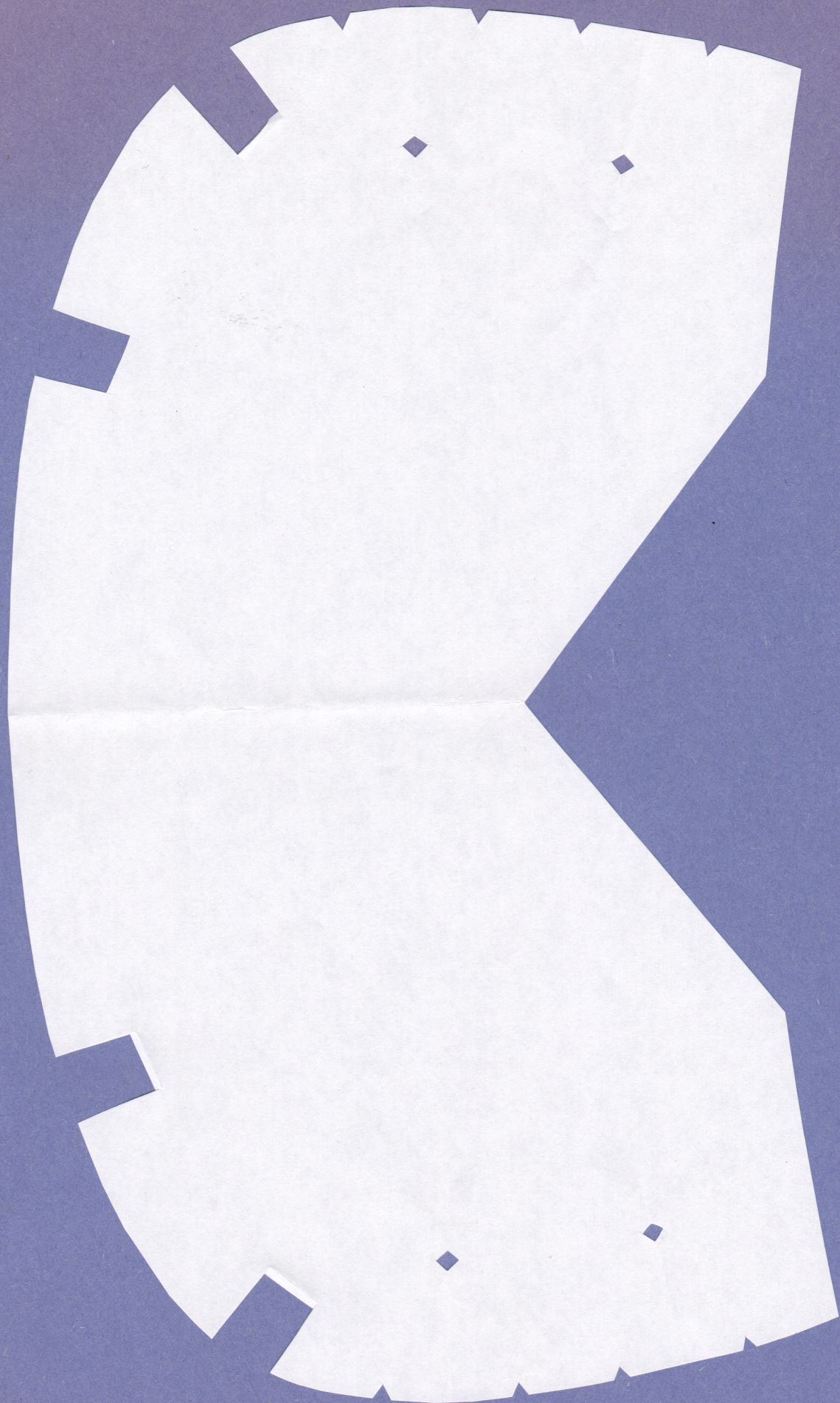


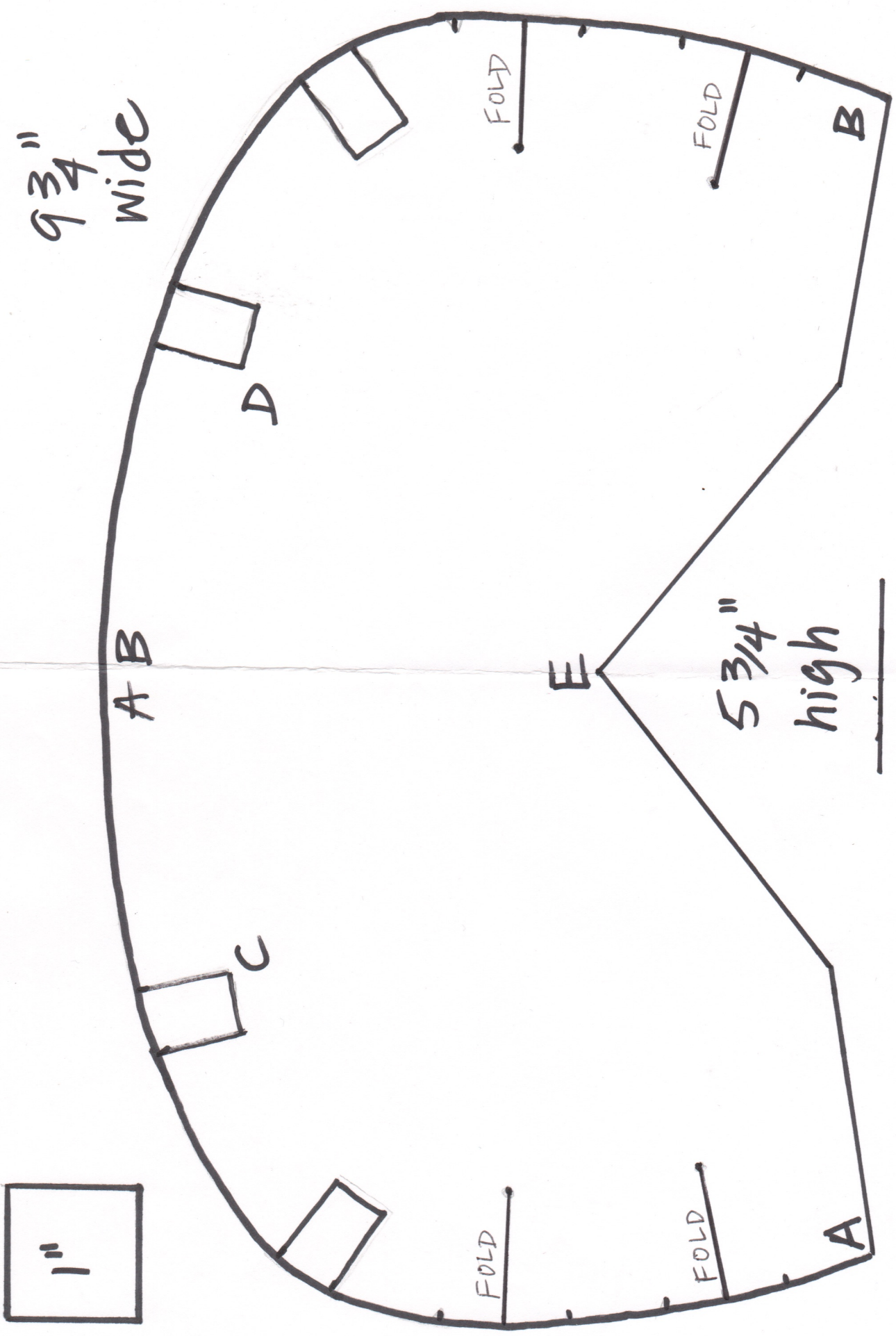


Step 6: Sew the outside seams. You are going to sew on the blue side so that the seams will be on the outside of the mask. Slightly bend the nose wire so you can line up the remaining seams and clip, blue side out. Using a 1/4" seam, backstitch at the beginning (Point E), sew to 1/4" from the corner, turn the mask and sew to the end and backstitch. Trim the seam to 1/8" inch to trim it up a little.

Now you will sew a 1/4" topstitch on the outside edge from one dart across the seam you just made and across the other dart. **You are done!**

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9 3/4" wide

A B

B

D

FOLD

FOLD

E

5 3/4" high

C

FOLD

FOLD

A



1"