

## TRANSFORMER



### Materials:

INNER BAG: Use 2 oz soft leather, as it is very large anything thicker would make it very heavy. Use the same leather on the front pocket gusset. As an option, you can use canvas. In this case you will need bigger seam allowances and sewing machine.

SHELL: I used 5 oz leather with firmer temper, that's about right. 5.5-6 oz will be perfect, for the pocket layer on the back part of the shell something lighter can be used, like a 3-4 oz, firm temper. Overall, the shell should be pretty solid, and as an option, use veg tan as the front panel could be wet molded to give it a little volume on the bottom part.

### Hardware:

12 x 1" buckles  
3 x 3/4" center bar buckles (you may use heel bar as well but will need to make keepers)  
3/8" grommets (size may vary slightly but you have to adjust the holes)  
2 x 1" D-rings  
1 x 7" zipper  
Rivets

### Tools:

Scissors, knife (paper knife or rotary cutter would also work).  
Stitching irons: my pattern is made for 5mm stitching irons (5 stitches per inch). If you are willing to use any other size please make sure that the hole count is the same where it has to be the same: pocket front and pocket gusset, the back panel with its inner part, etc.  
Needles - according to your thread size, a pair of harness needles.  
Mallet, grommet setter, rivet setter, hole punch, 3/4" oblong punch.

Any questions or comments, e-mail me: lissius@gmail.com.

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### Instructions:

Print the pattern at actual size (100%). If printing A4 or US Letter: Use the reference on top of each page to makesure everything is printed correctly. Join the pages together, cut out the pieces.

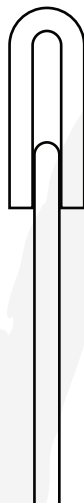
1. Assemble the inner bag. Sew both panels and the gusset together and install the grommets (you will need quite a few). The vertical rows on gusset and panels are joined together with same grommet (see TransformerPics.pdf for reference).

2. Assemble the front pocket and the front panel.

3. Sew the zipper on the outer part of back panel.  
Align both panels part (grain side out) and rivet side buckle holders aligning them properly. Then, using the stitching holes on the back panel, make corresponding stitching holes on the buckle holders (see pics). I am not giving you all 8 holders with stitching holes because that would be overwhelming, confusing and not necessary.  
As an option, all those buckle straps that are riveted to the back part, you can sew them in between these 2 panels instead (in this case skip the rivet holes when cutting out the back panel parts). Actually on this part you can improvise with the attachments because this is not important at all, the important part is that they're placed correctly.

4. Attach the buckles to the back part. Attach D-rings and top handle.

5. Sew the shoulder pads (there is a note about it on the pattern itself). Attach the D-ring strap A and bottom part of shoulder strap. The D-ring strap A, as well as the shoulder strap buckles on the bottom, are attached on both sides, like this:



6. Assemble the flap, sew it on. The middle closure strap is sewn on along with the flap.

7. Lace up the inner bag sides. Buckle up the shell.

8. Pull the drawstring through all the top grommets. 2 grommets in the center (both back and front) is where the inner bag is attached to the shell with the drawstring.

9. If all of this looks like an owl drawing instructions (1. Draw two circles. 2. Draw the rest of the owl) please do not hesitate to contact me with any questions that you may have about assembly of this backpack.

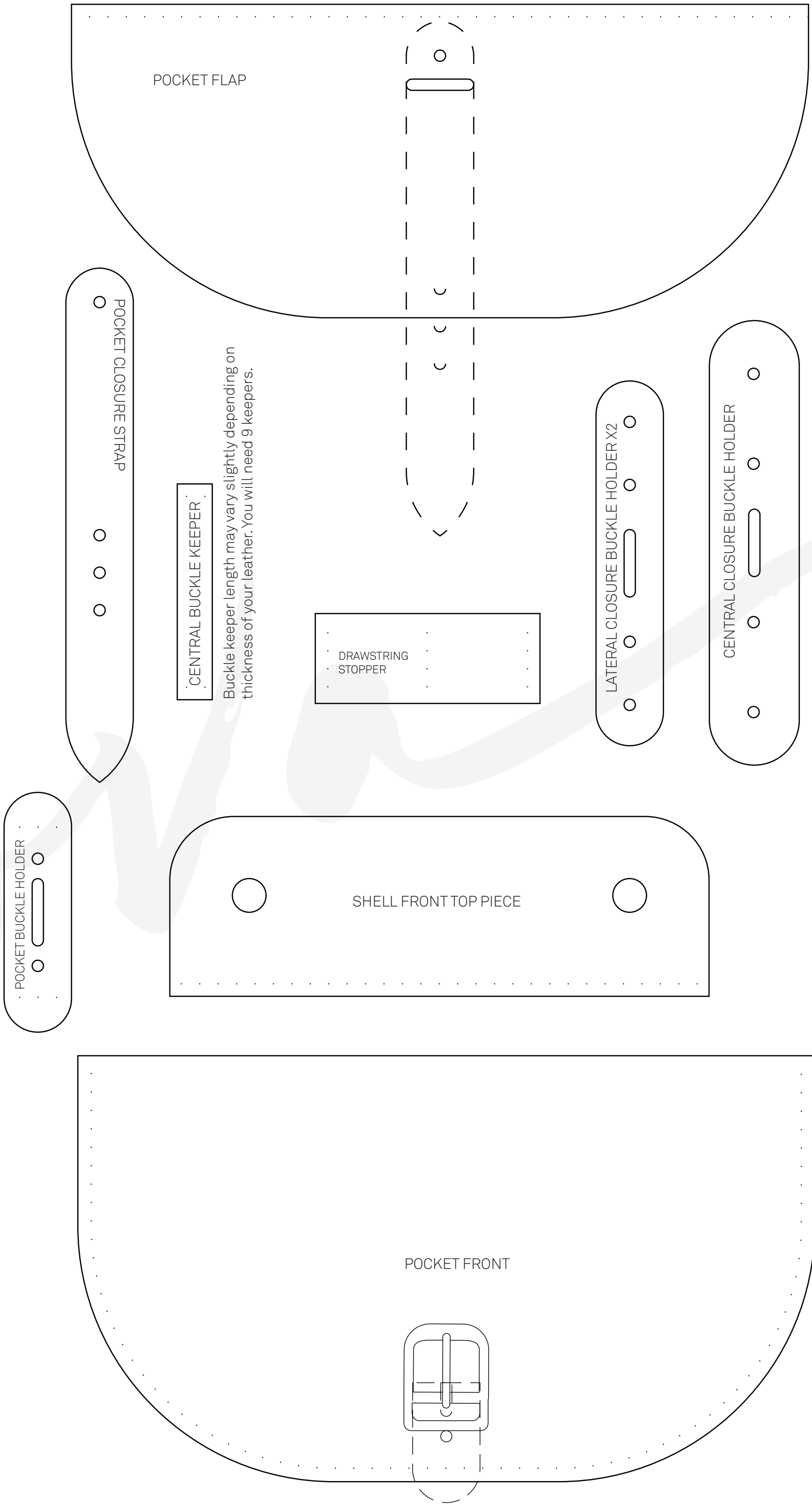
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You can sell the items you create using this pattern but I would kindly ask you to buy the pattern again for every 10 items you sell, this is a way for me to get my royalties.

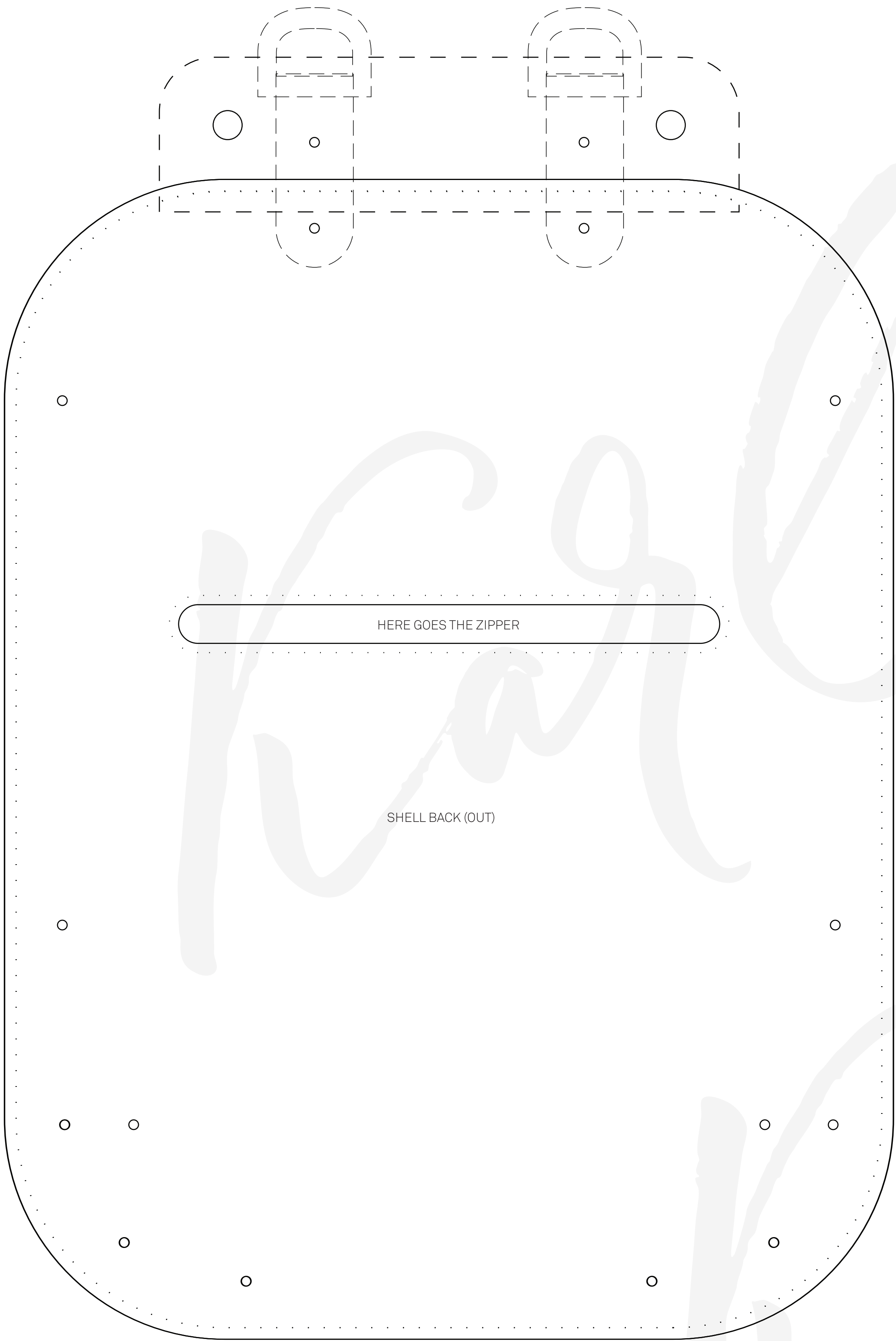
**NOTICE FOR RUSSIAN SPEAKING CRAFTERS**  
Мы с вами коллеги, поэтому давайте уважать друг друга. Пожалуйста, не нужно заниматься пиратством. Выкройки стоят не так уж дорого, и благодаря их продажам мы, дизайнеры, можем кушать, оплачивать счета и продолжать создавать для вас новые дизайны. Если эта выкройка попала к вам откуда-то еще, кроме как из моего магазина, пожалуйста, свяжитесь со мной и поделитесь информацией о том, где и как она распространяется.

I made the gusset with 2 oz leather and I like it this way-Just an option.

FRONT POCKET GUSSET

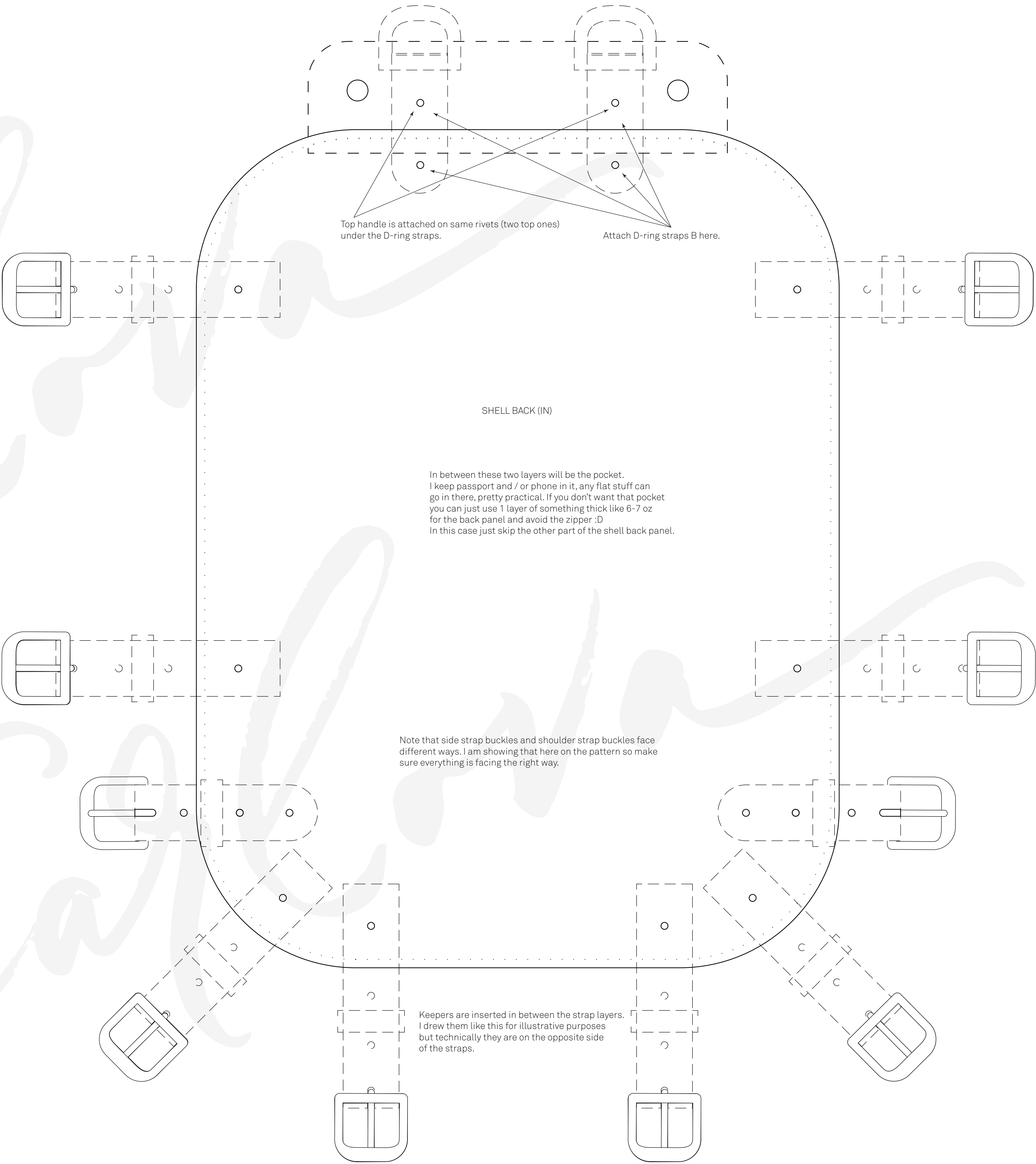






0cm 1cm 2cm 3cm 4cm 5cm

1m 2m 3m

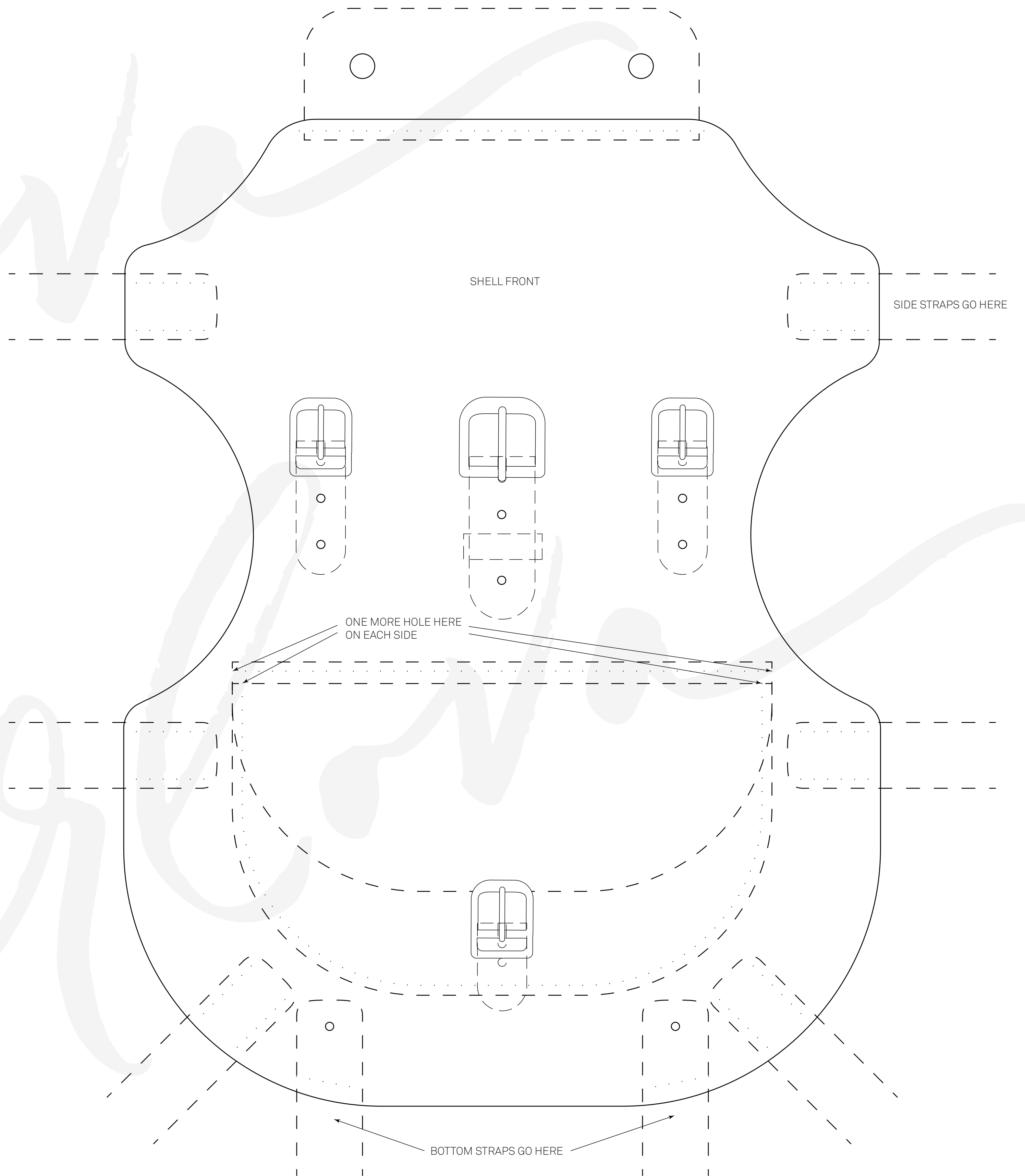
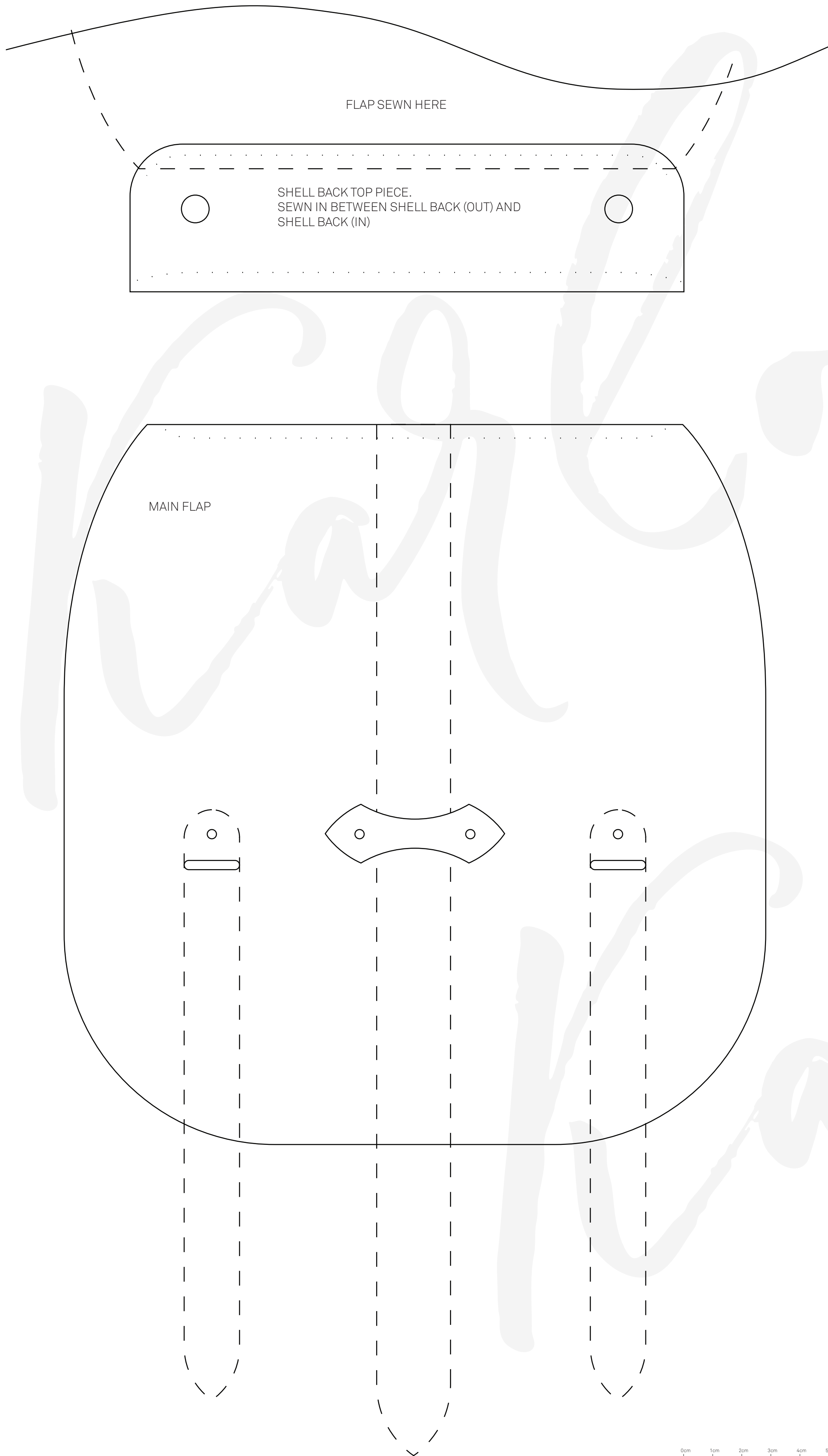


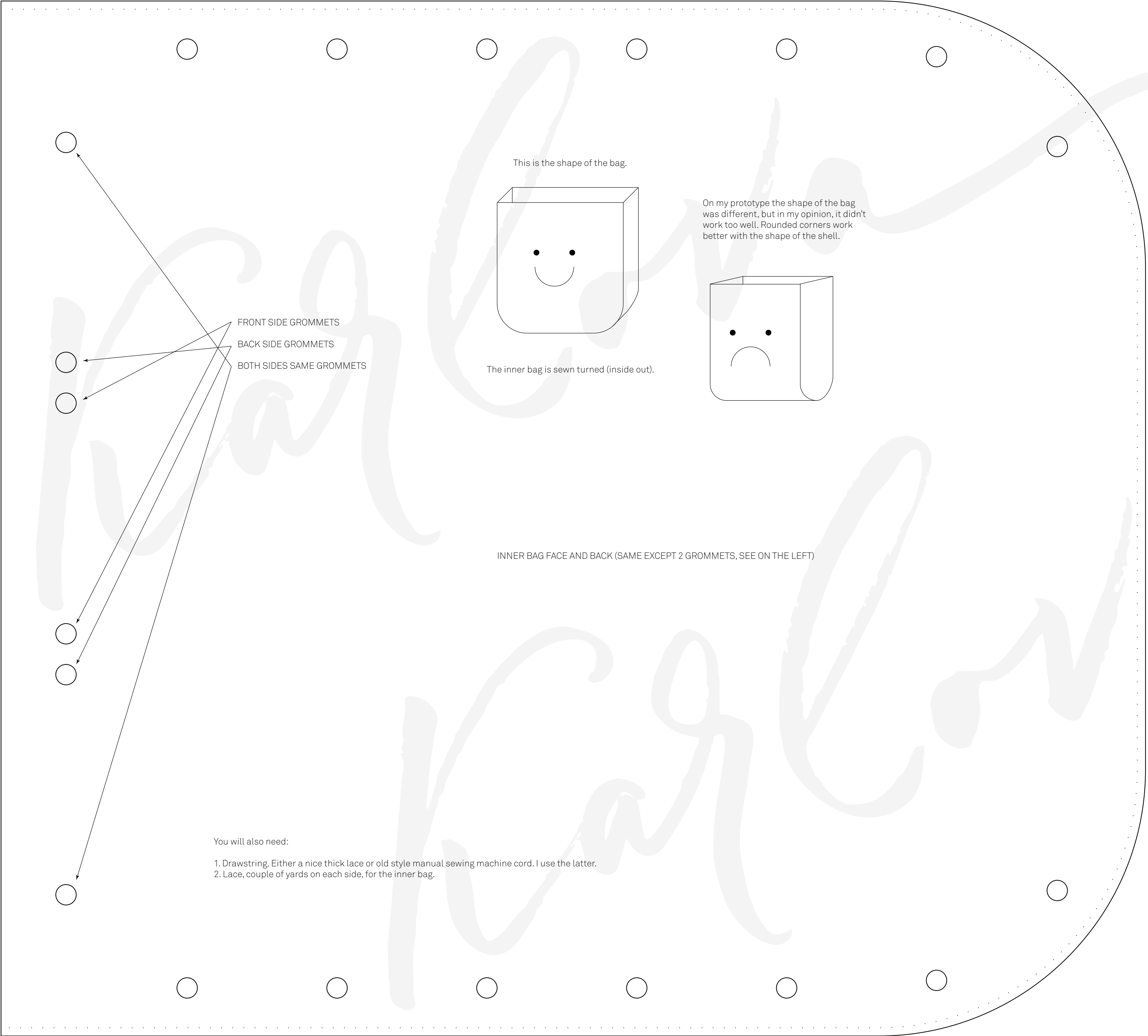
SHELL BACK (IN)

In between these two layers will be the pocket.  
I keep passport and / or phone in it, any flat stuff can  
go in there, pretty practical. If you don't want that pocket  
you can just use 1 layer of something thick like 6-7 oz  
for the back panel and avoid the zipper :D  
In this case just skip the other part of the shell back panel.

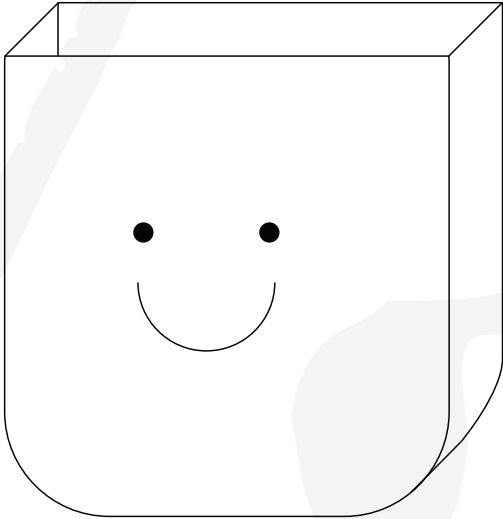
Note that side strap buckles and shoulder strap buckles face  
different ways. I am showing that here on the pattern so make  
sure everything is facing the right way.

Keepers are inserted in between the strap layers.  
I drew them like this for illustrative purposes  
but technically they are on the opposite side  
of the straps.

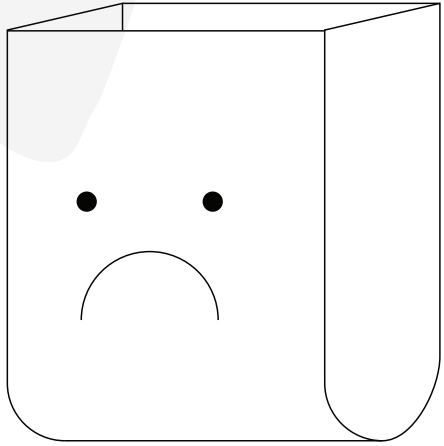




This is the shape of the bag.



On my prototype the shape of the bag was different, but in my opinion, it didn't work too well. Rounded corners work better with the shape of the shell.

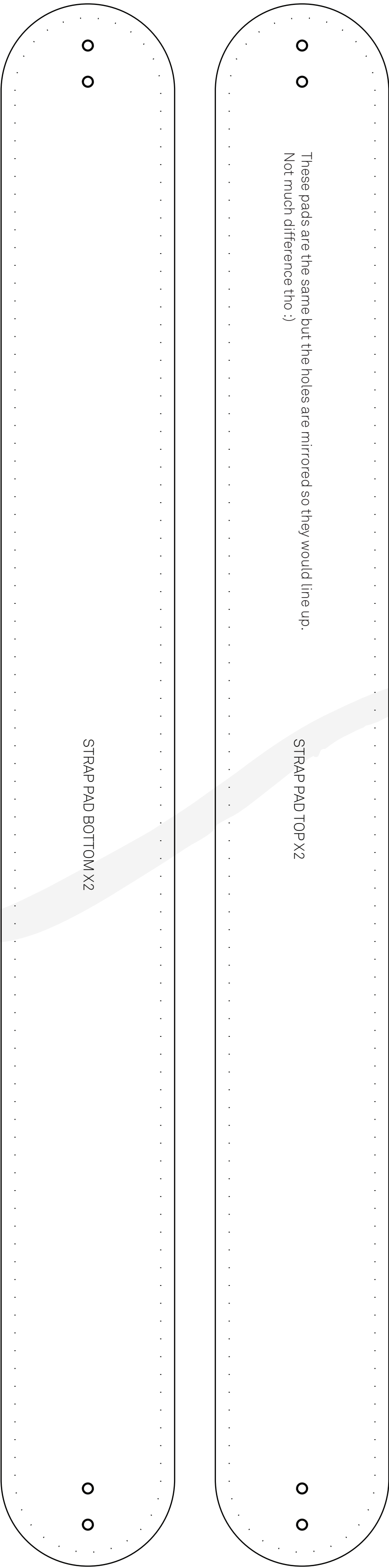


The inner bag is sewn turned (inside out).

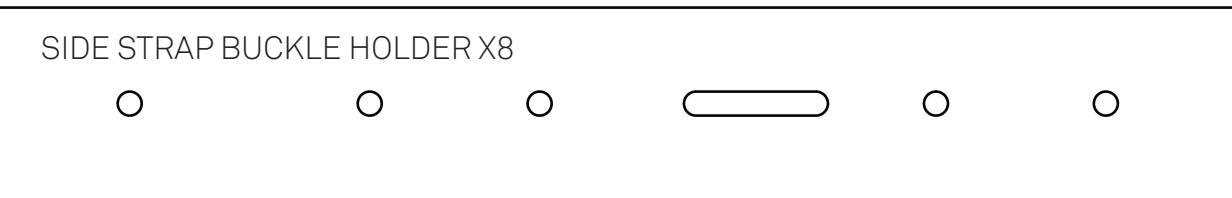
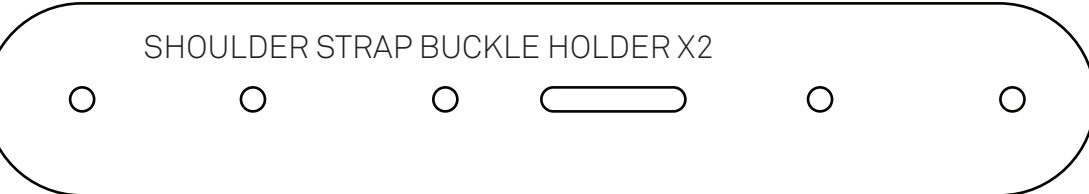
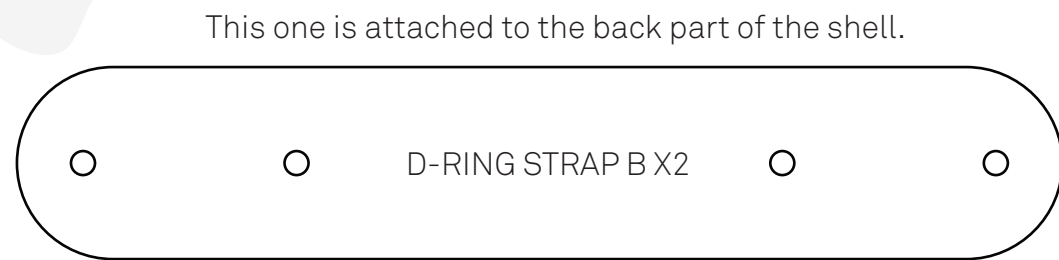
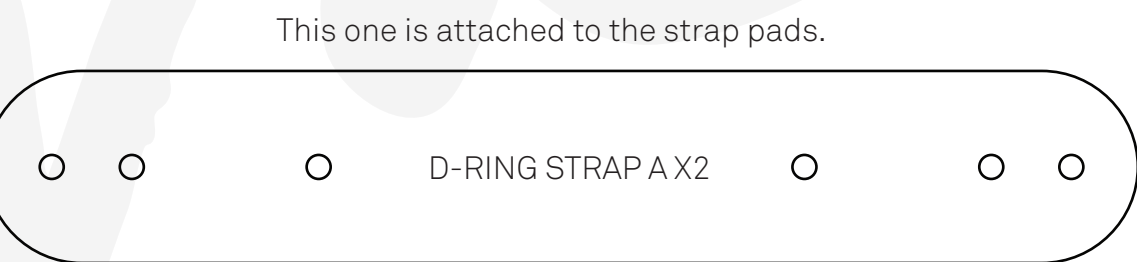
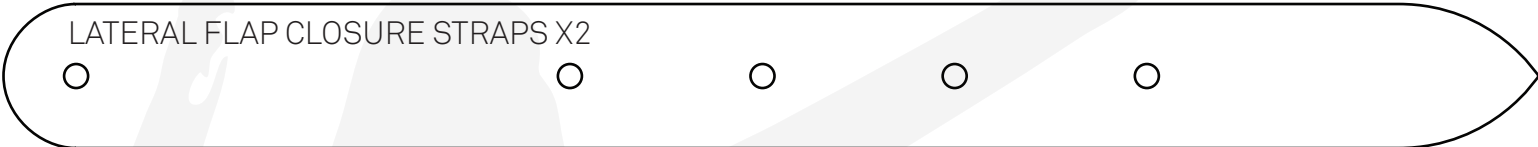
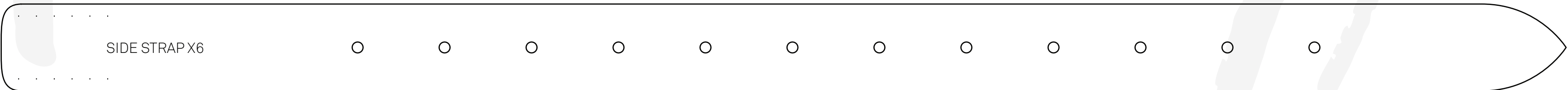
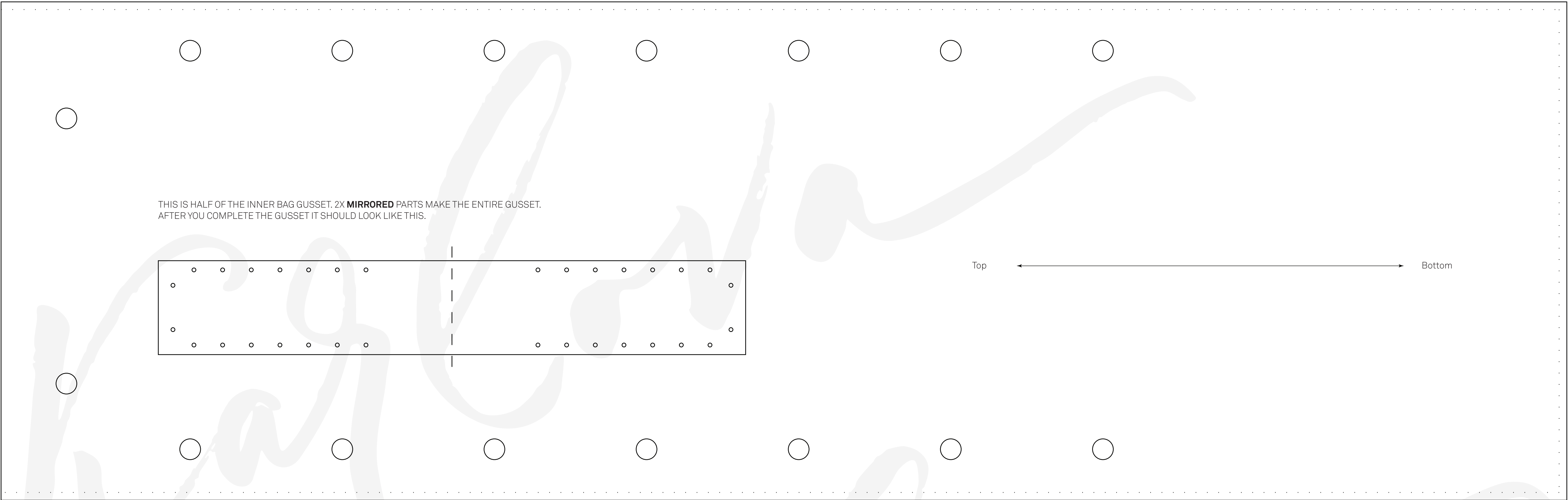
INNER BAG FACE AND BACK (SAME EXCEPT 2 GROMMETS, SEE ON THE LEFT)

You will also need:

- 1. Drawstring. Either a nice thick lace or old style manual sewing machine cord. I use the latter.
- 2. Lace, couple of yards on each side, for the inner bag.



These pads are the same but the holes are mirrored so they would line up.  
Not much difference tho :)



You can make the ends of this one rounded as well. I didn't on my prototype and decided to keep things accurate or it would be confusing. Rounded ends would look nicer on this one tho when backpack is assembled they are not visible.

