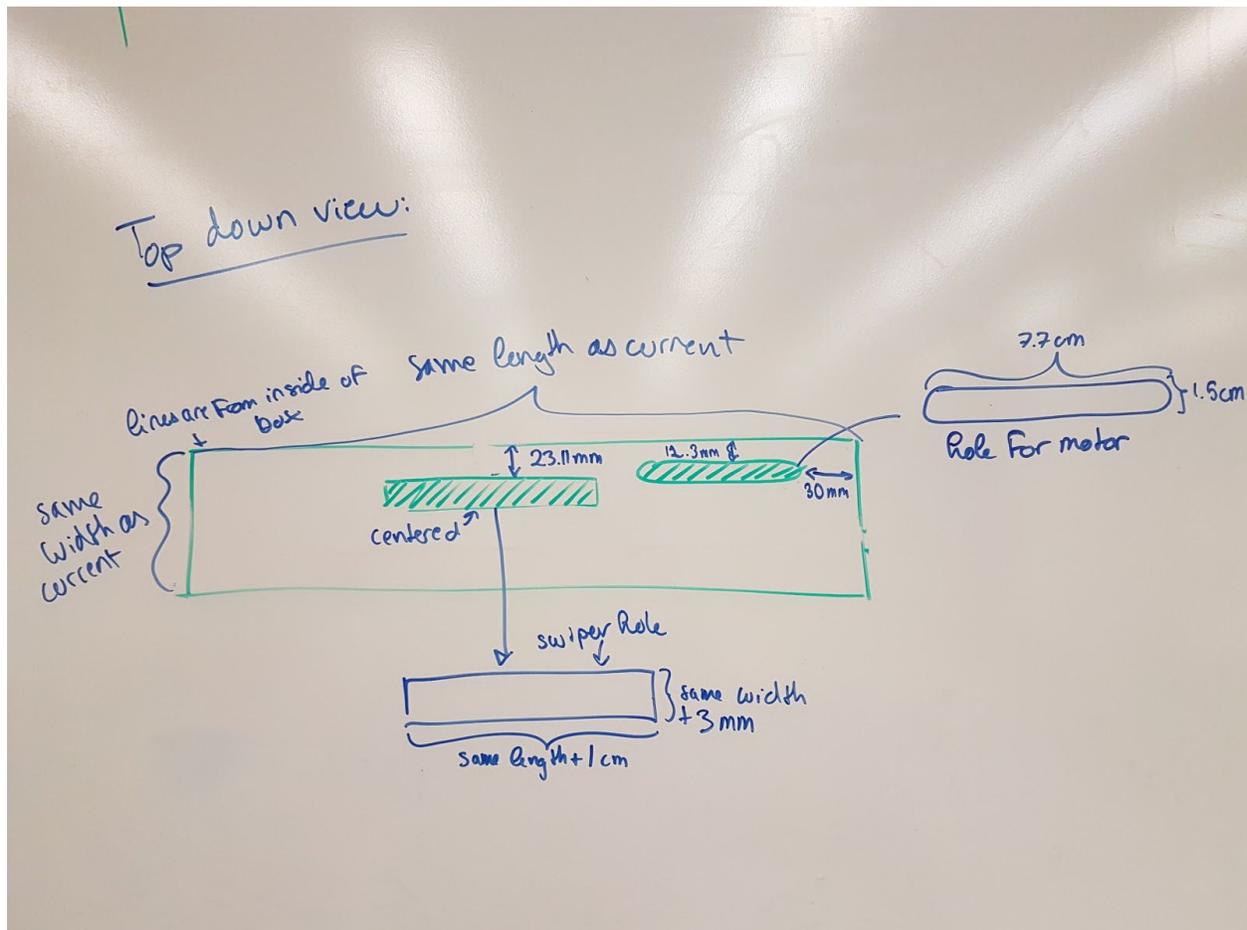


The main changes we've decided on the box design are:

1. No side holes
2. Make the holes on the box in a way that lets us adjust where the servo and stepper motor are so we can play around with positioning after we've already built the box
3. No backboard - the binder will rest against the stand directly, no hardboard behind it

Any shaded pieces in the below images indicate holes. All the green box edges indicate the inside of the box.

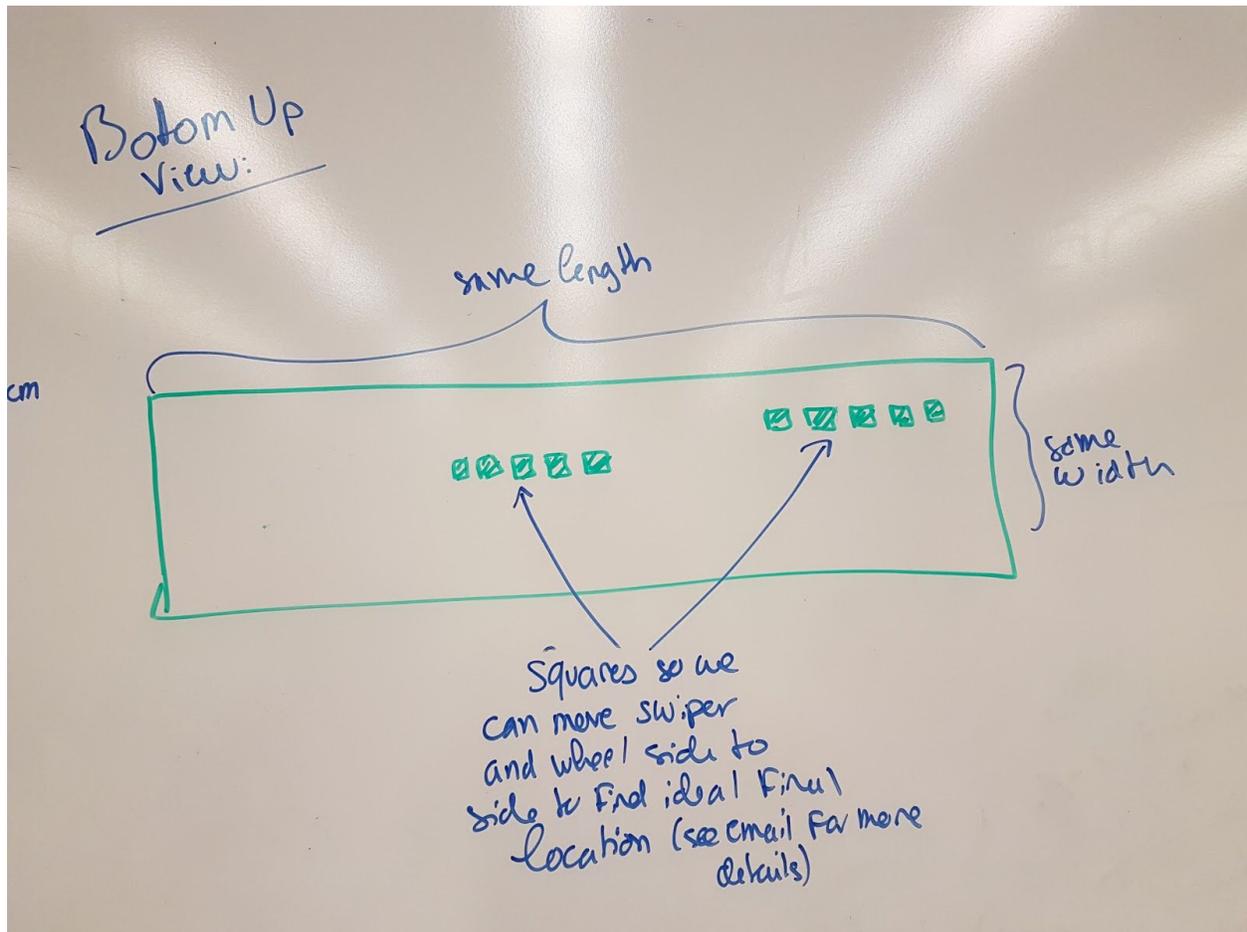
Top piece:



The swiper hole (left most hole) is basically the same as before except we're making it 1 cm longer (so extra $\frac{1}{2}$ cm on either end) and making the width slightly bigger by 3 mm (this number was kinda randomly chosen, we just wanted to give us more wiggle room) and moving it back. 23.11 mm was determined based on the binder we're using.

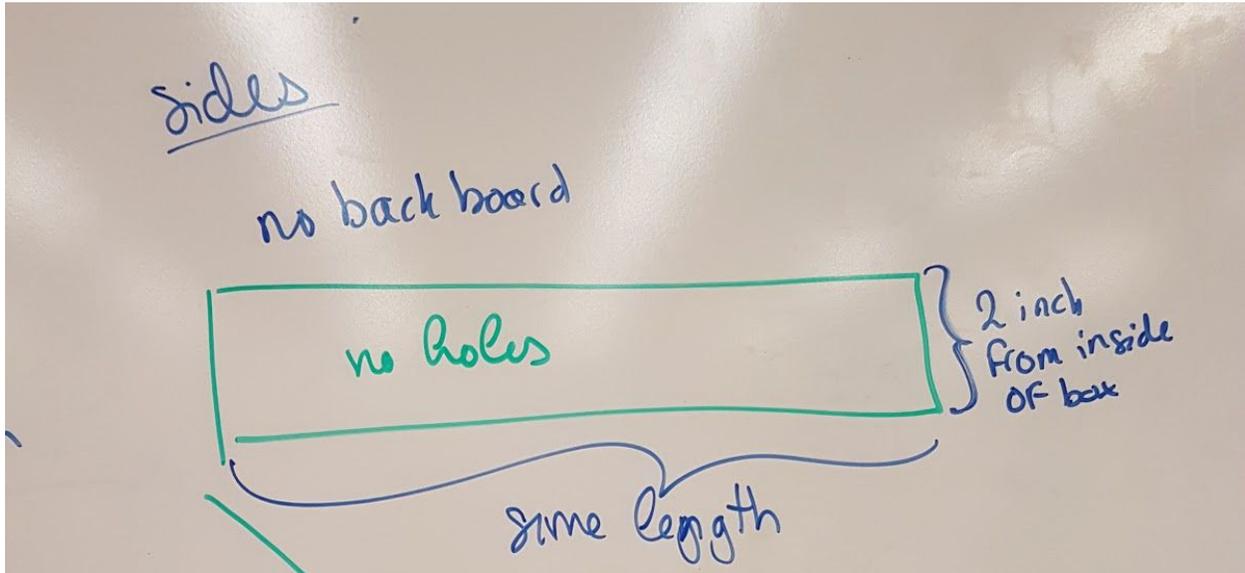
The motor hole (right most hole) is long so we can move the motor side to side to find the right place along the paper for the motor. The rounded edges are just for aesthetics so they don't actually have to be there.

Bottom piece:



Hannah is working on the new mounts for the servo and swiper. We've decided to no longer attach them from the sides, but stick them from the bottom and use the pressure from the side walls to hold them together. We'll glue (for final) or tape (for testing) the top and side box pieces together (more on that later) so that it doesn't slip. We want to have holes on the bottom box piece so that the mount for the servo/motor can change location. The mount is gonna have indents as well that go as deep as the width of hardboard so the bottom will be smooth from the outside. Since Hannah is still working on the details of the mount, we'll talk more on Monday about the specifics. You could text her tomorrow to see what she's come up with to get more details if you wanted.

Long sides:



We no longer have any holes on the sides so it'll look nice and smooth. If you could raster Tusic on the front piece that would be lit.

The height of it should be 2 inches. We're making it less high bc we determined that the max height we would possibly need is 1.75in and it'll look better to be smaller. 2in is just to be safe but it'll still be smaller and nicer looking.

Small sides:

We still want all of the indents that currently hold the box together. All of the dimensions on the images are from the inside of the box bc how you do the indents doesn't really matter. We want to plan ahead so for the openings on the sides of the box, could you make indents like you have on the other edges? The side pieces that'll fit there don't need to be designed quite yet but to avoid having to do too much redesign/recutting it would be nice to have them already.

