SIVE ELUS

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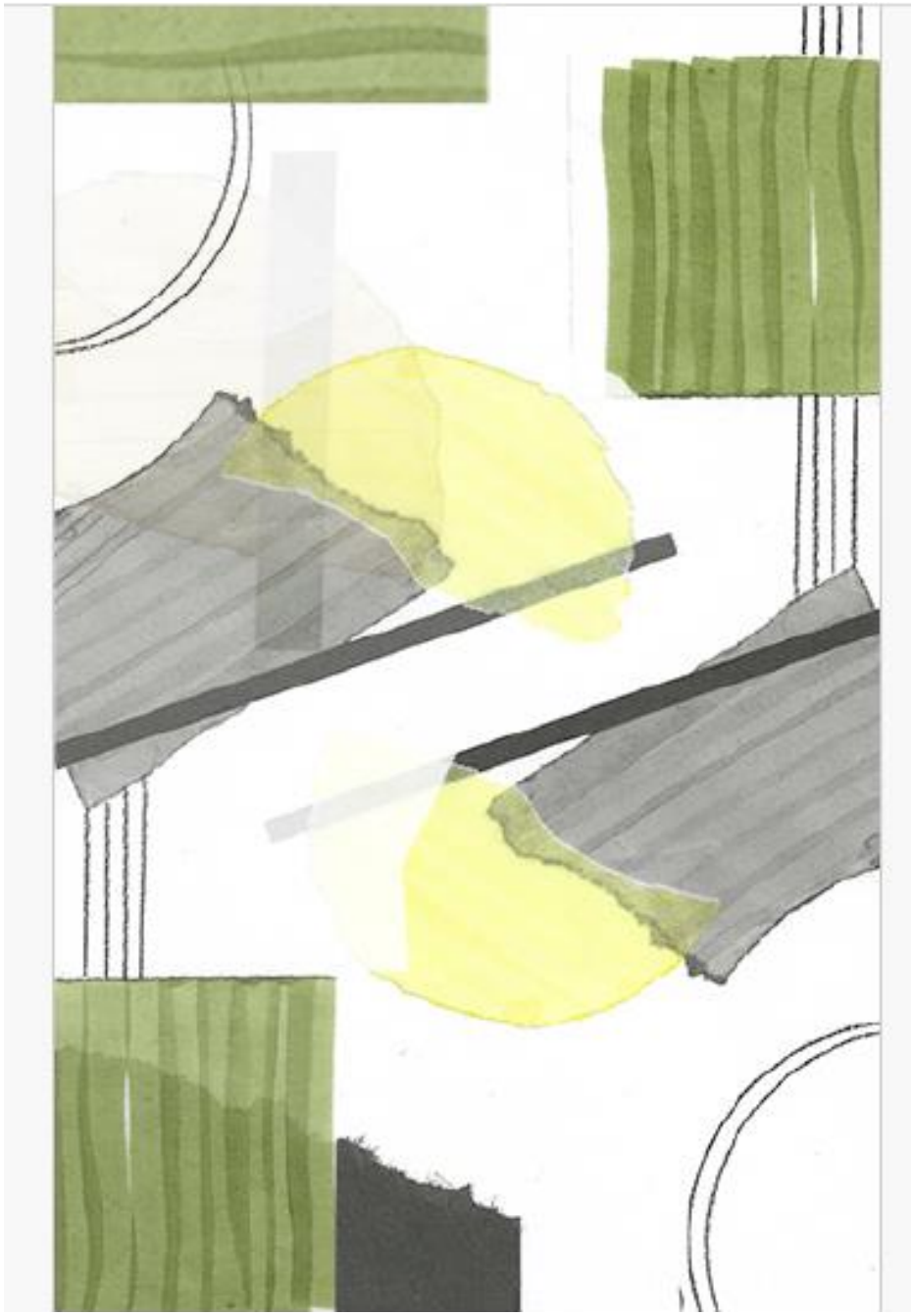
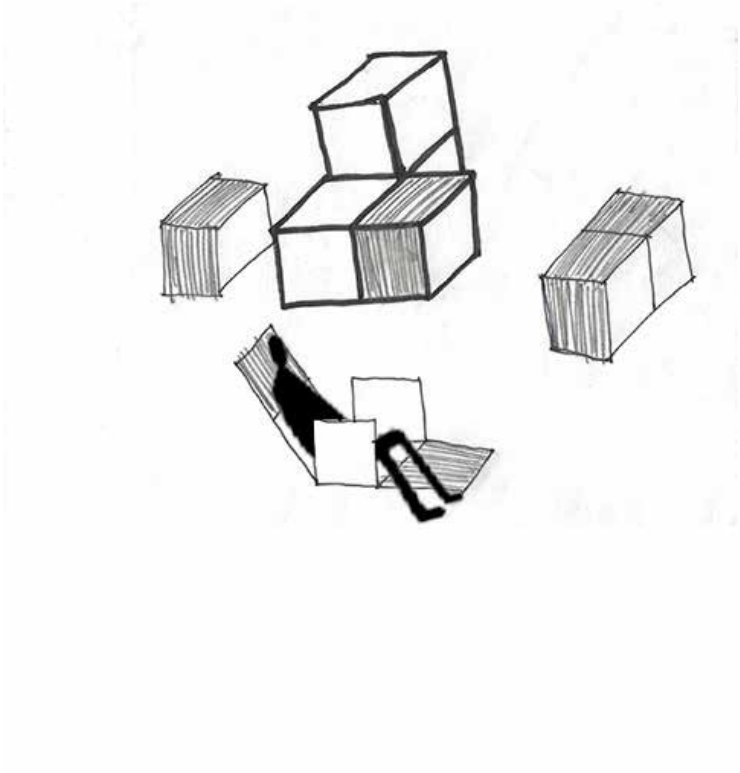
Project 1

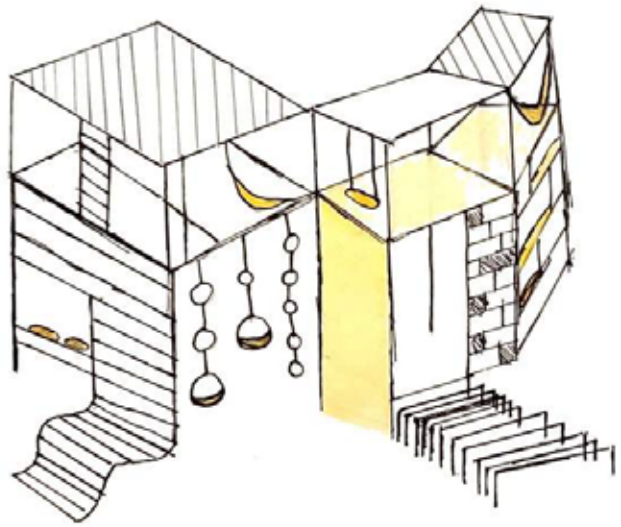
In the beginning, we wanted to do a type of bowl seating that came down from the ceiling. After analyzing the size of the space and the size of other projects, we concluded that our design would take up too much space and not work well with other projects. That is when we started looking into the crinoline skirt used as a structural aspect in fashion. It was at this point that we were inspired by the dresses that were designed in the 1800s. We started doing multiple iterations of “curtain dresses”, yet they were still too big & overtook the space. Then the concept evolved to cutting the curtain dresses in half, creating a “belly” “-like shape. The belly is meant to perform various transformations like hooking up onto the veiling to create more of an open space to also being able to move along the cross-section of the site. Being able to move the curtain allows anyone to create moments of intimacy anywhere on the site. We searched for various precedents and designers like Petra Blaisse, as well as different methods used in fashion for putting the dresses together like sewing. We researched & experimented with many different materials to see what would work best for our concept & design. To create the belly structure, we used vertical elements such as cables to allow the curtain to bend and move within the site. To move across the space, there will be a railing system in the ceiling in which the bottom of the curtain can be hooked onto as well as move horizontally. Further experiments for our project will be a deeper investigation strength and structure of the curtain dress and the ability to hold shape with movement. Integration with the landscape project would be utilizing their design as an extension of our curtain dress to allow more seating and collaboration within the site.



Collage - Eileen Gray Inspiration



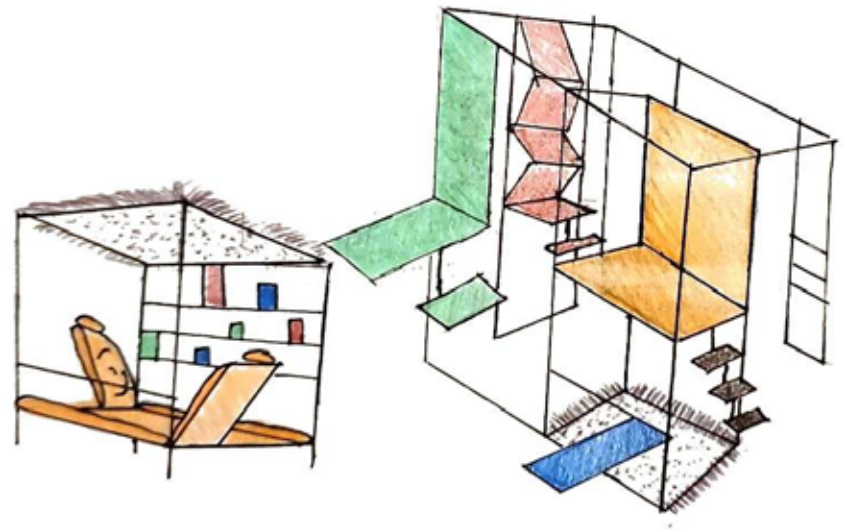
Drawing



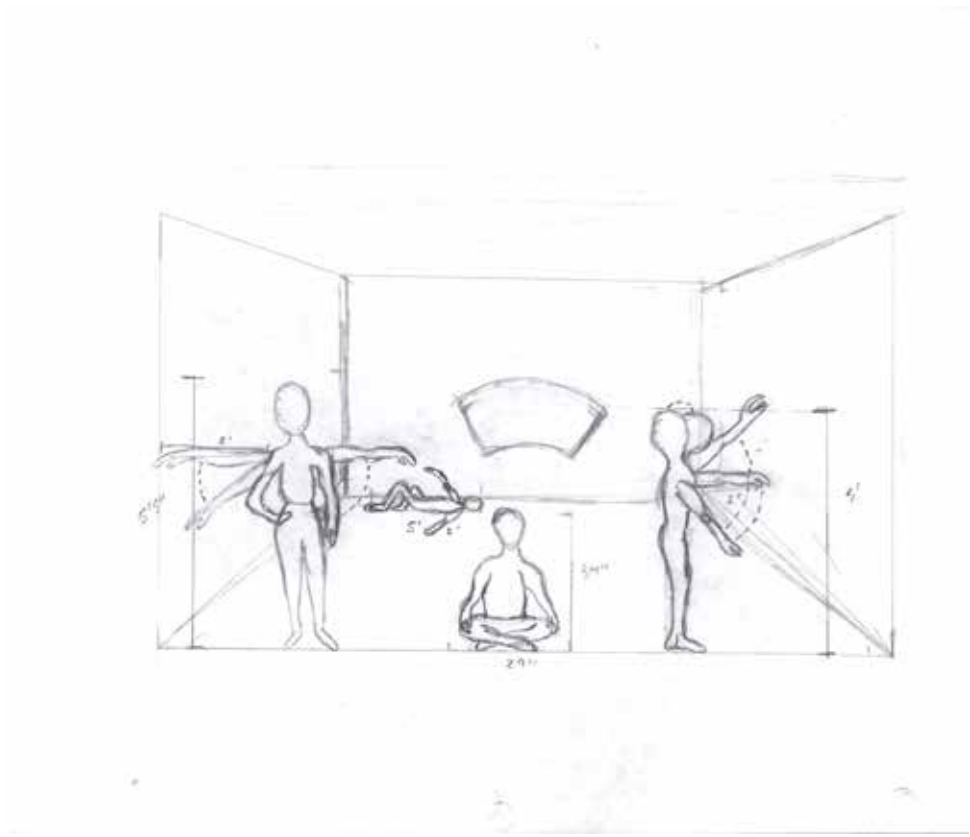
Drawing - Rozana Montiel Inspiration

Collage - Rozana Montiel Inspiration

Model - Ken Isaacs - Unfolding Walls



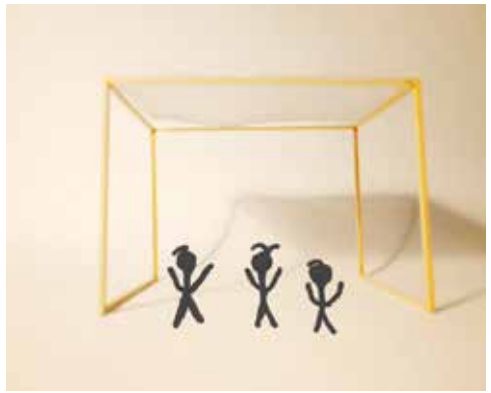
Drawing - Ken Isaacs - Unfolding Walls



Drawing - Ergonomics

Ergonomics is how our body moves and how it adapts to move in a given space or with a given product. It is finding the balance and discovering the capabilities our bodies can perform when interacting with the form and demands of a design. The human body is a sensitive organism, so it comes down to testing at what points can our bodies expand to reach comfort. Testing the wide range of movements our body can perform in how it can position itself and act will help the body figure out a position in a design where it feels at its best. Ergonomics is more than how our body can sit, it is crucial to understand our human body, our comfort state, and our efficiency to reach an attraction towards design.

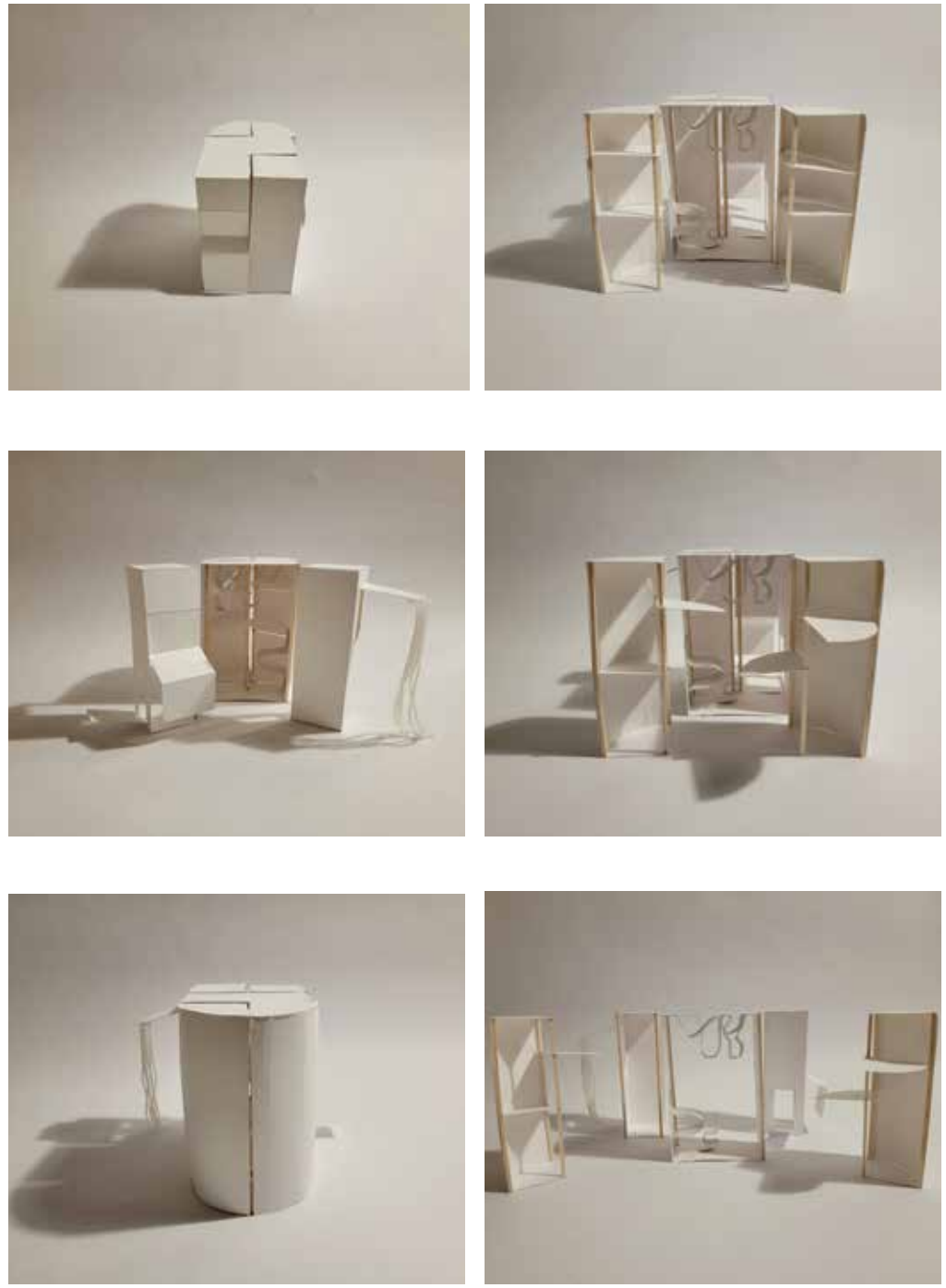
Ergonomics



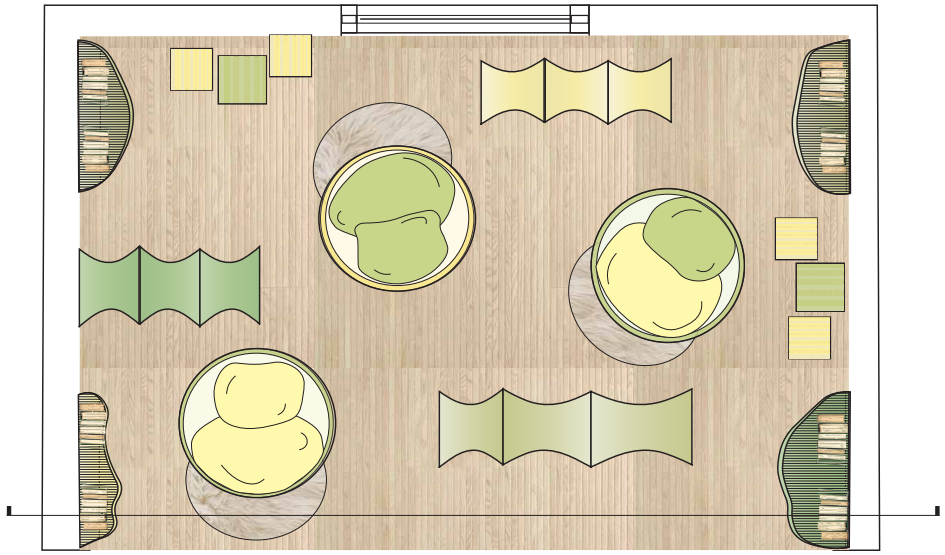
GIF

Collage - Hanging Spaces

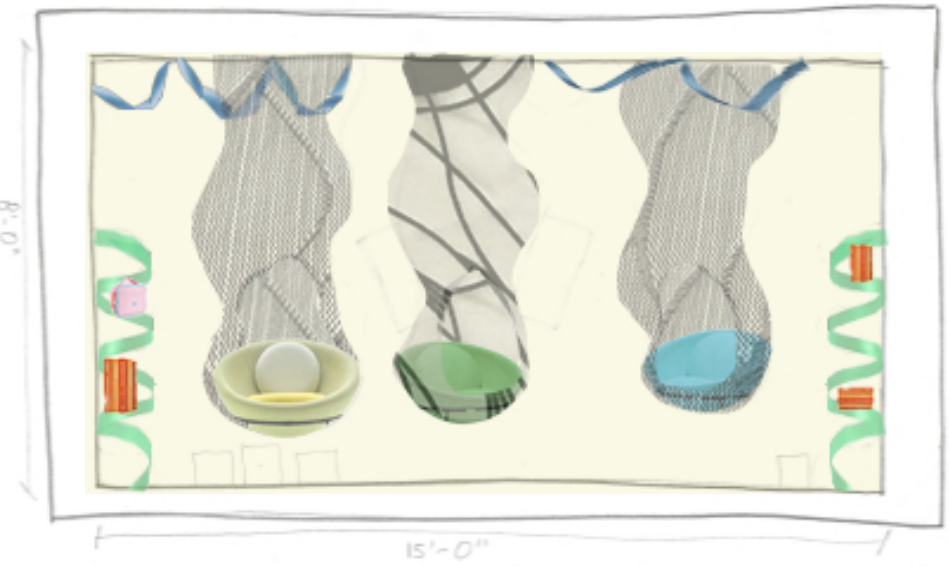
Collage of Words



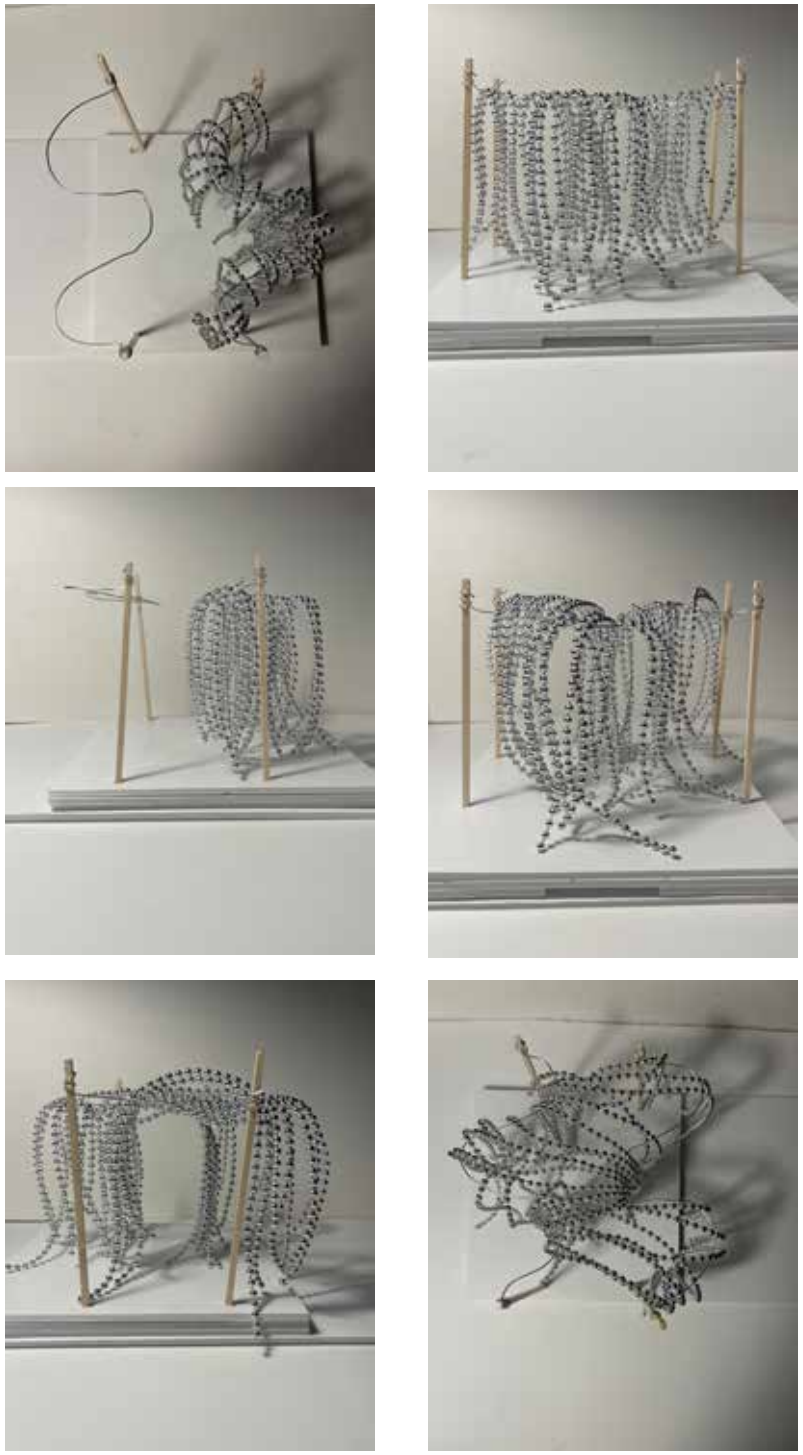
Model - Combined Elements



Ceiling Chairs - Plan



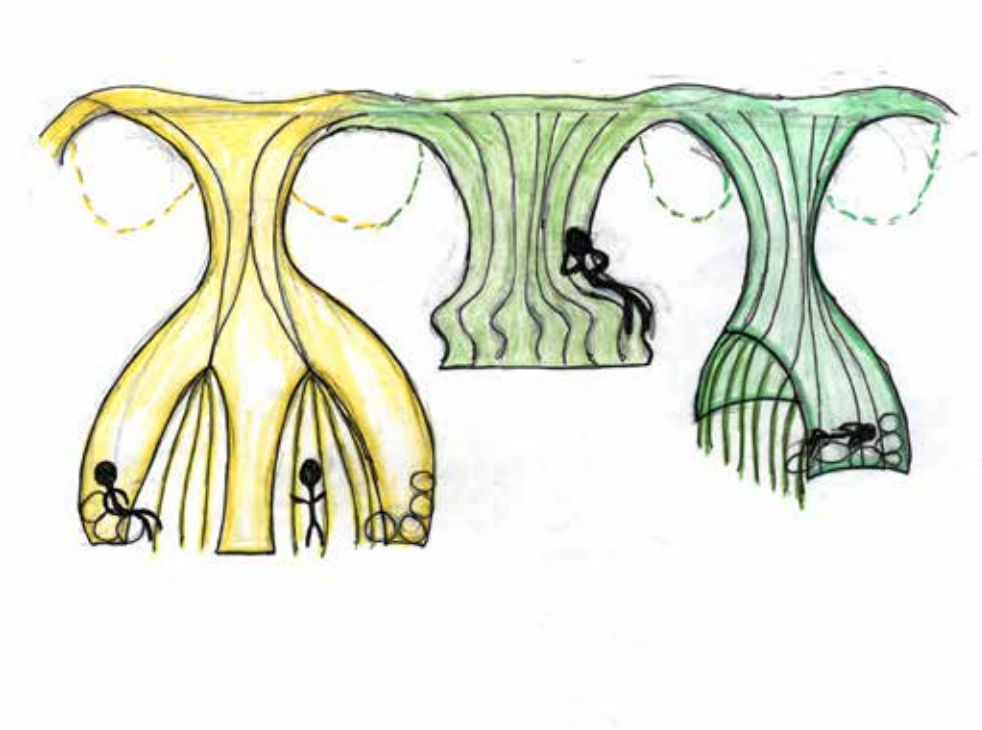
Ceiling Chairs - Section



Model - Frida Escobedo - Soft Walls

Collage - Curtain Spaces

Model - Transparent Spaces

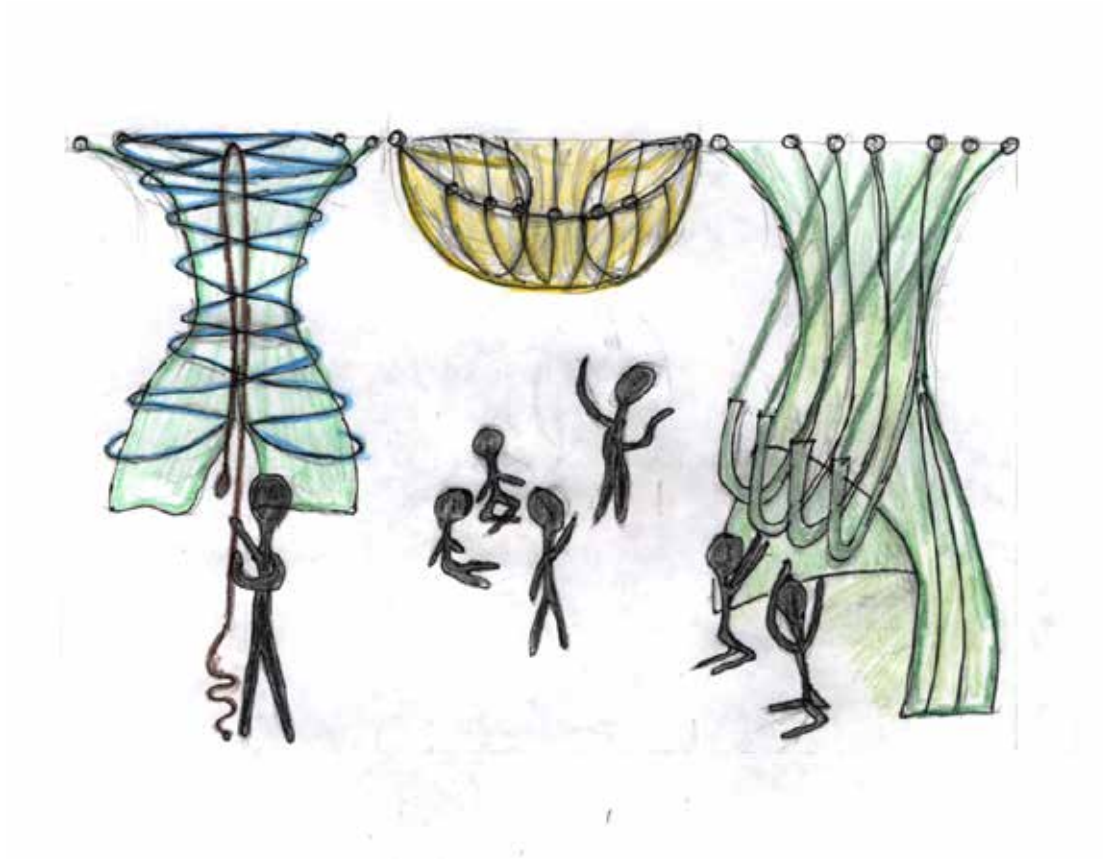


Drawing - Creating Spaces

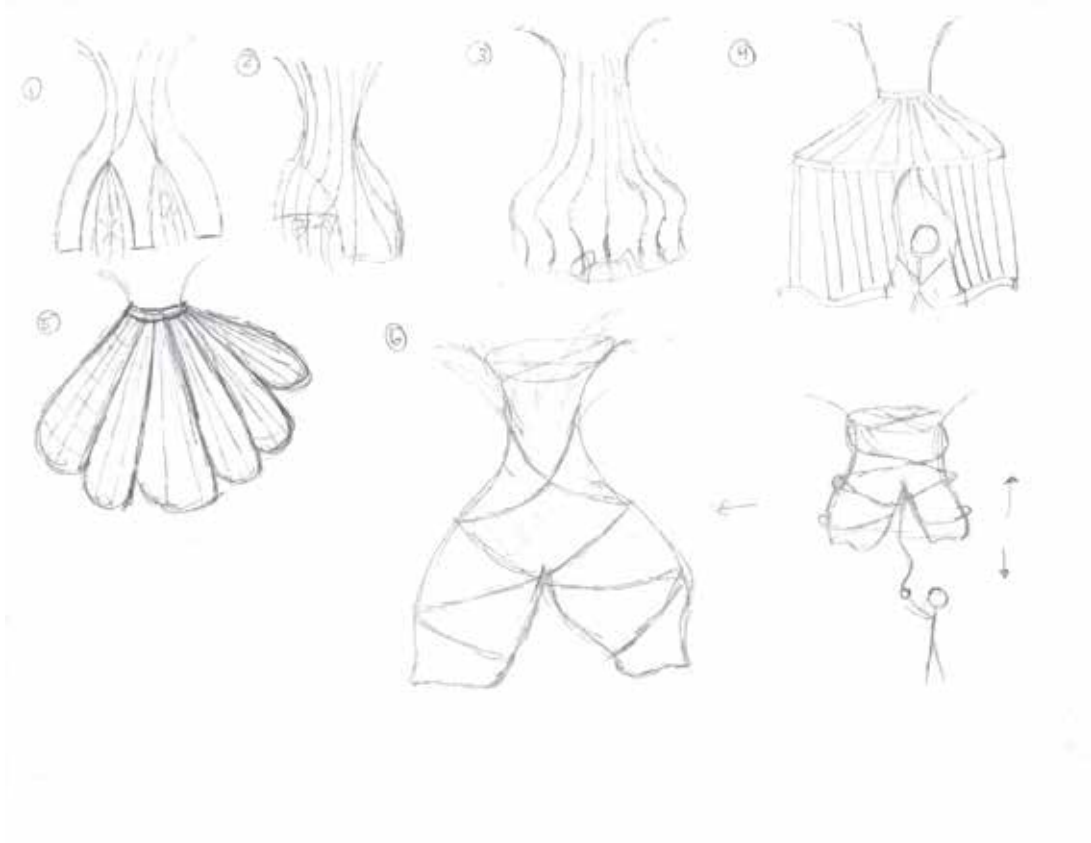
Model - Curtain Rooms

Drawing - Crinoline Rooms

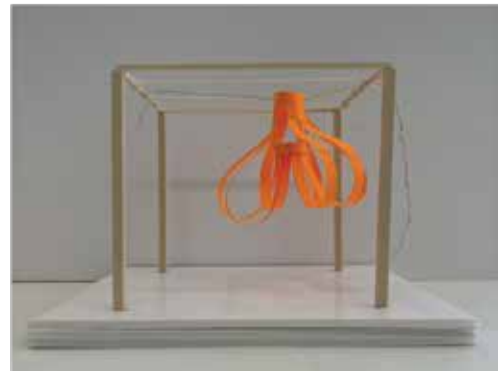
Project 2



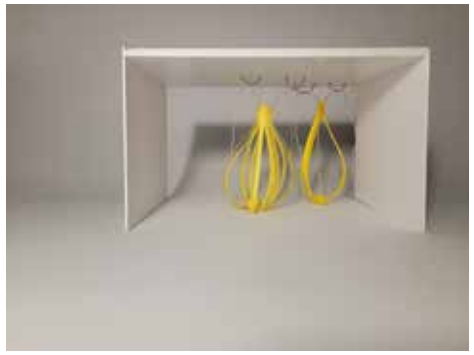
Drawing - Crinoline Rooms

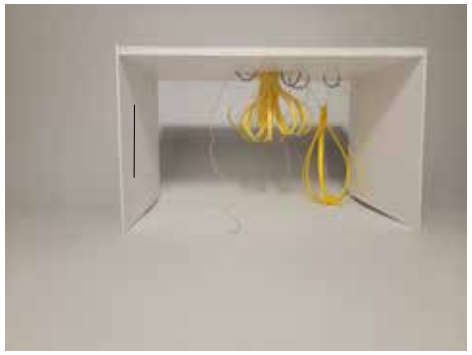


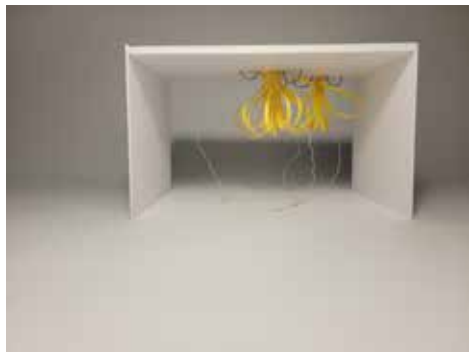
Sketch - Crionoline Shape Rooms



Model - Orange Belly Room



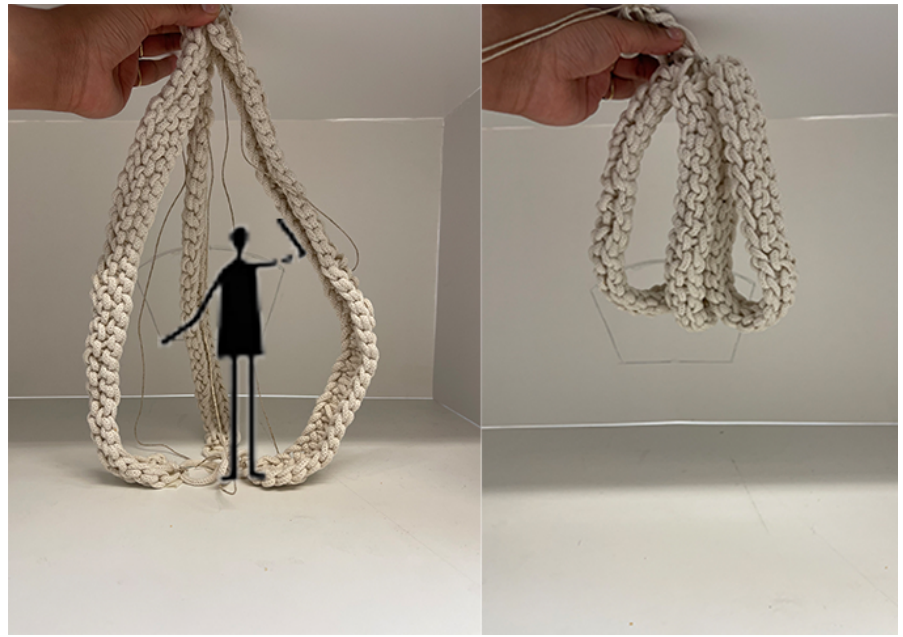




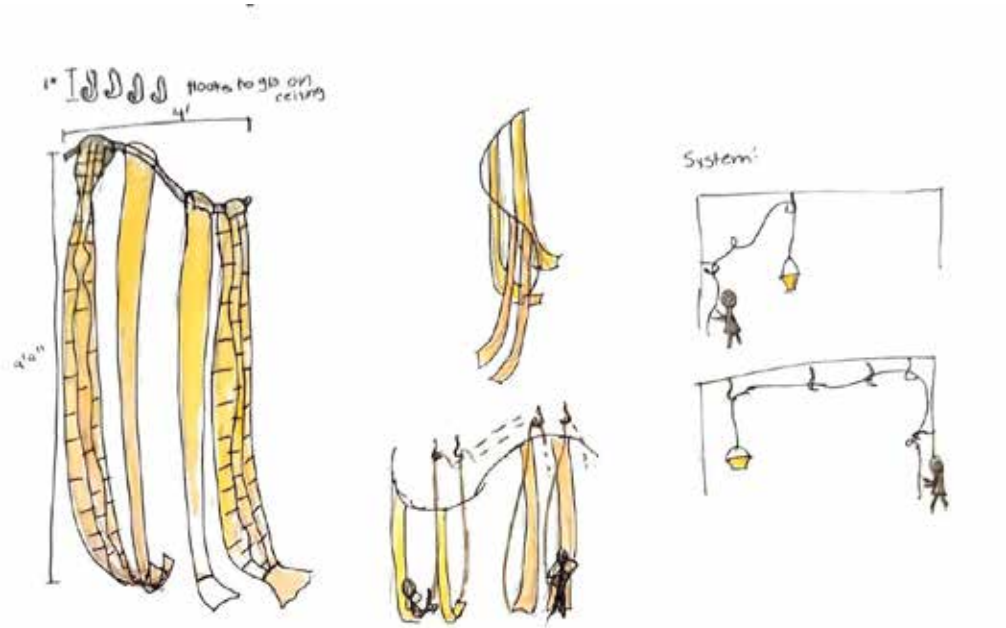
GIF - Concept Model

GIF - Waving Belly Room

Weaving Model



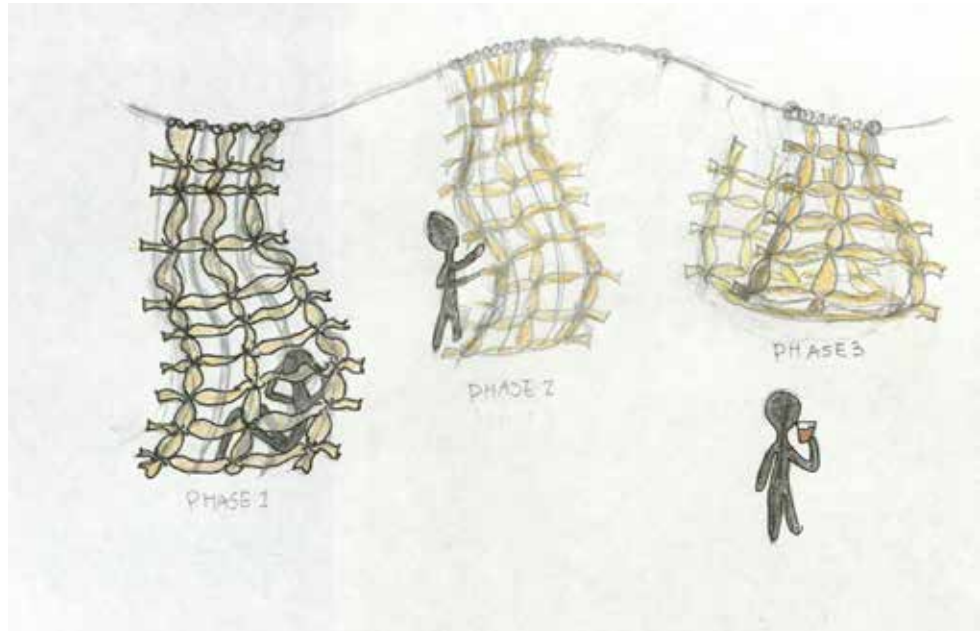
Weaving Model

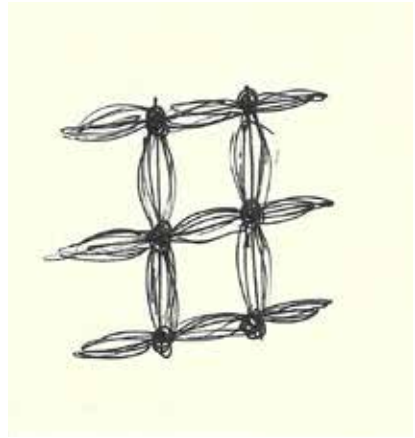


Sketch of model

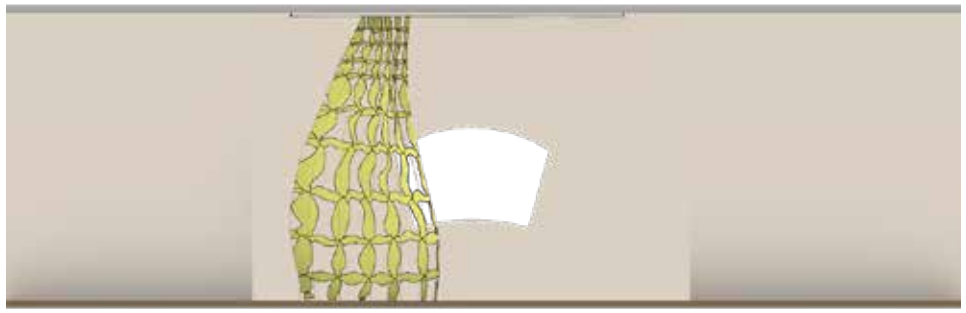
Model - Belly Strip Room

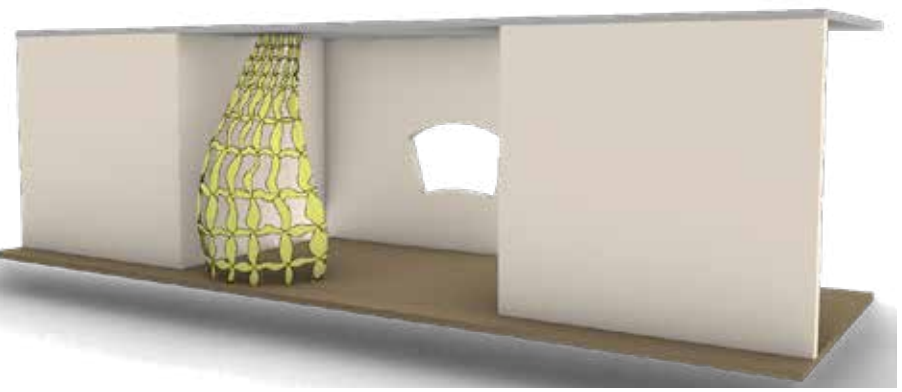
Digital model and Elevation





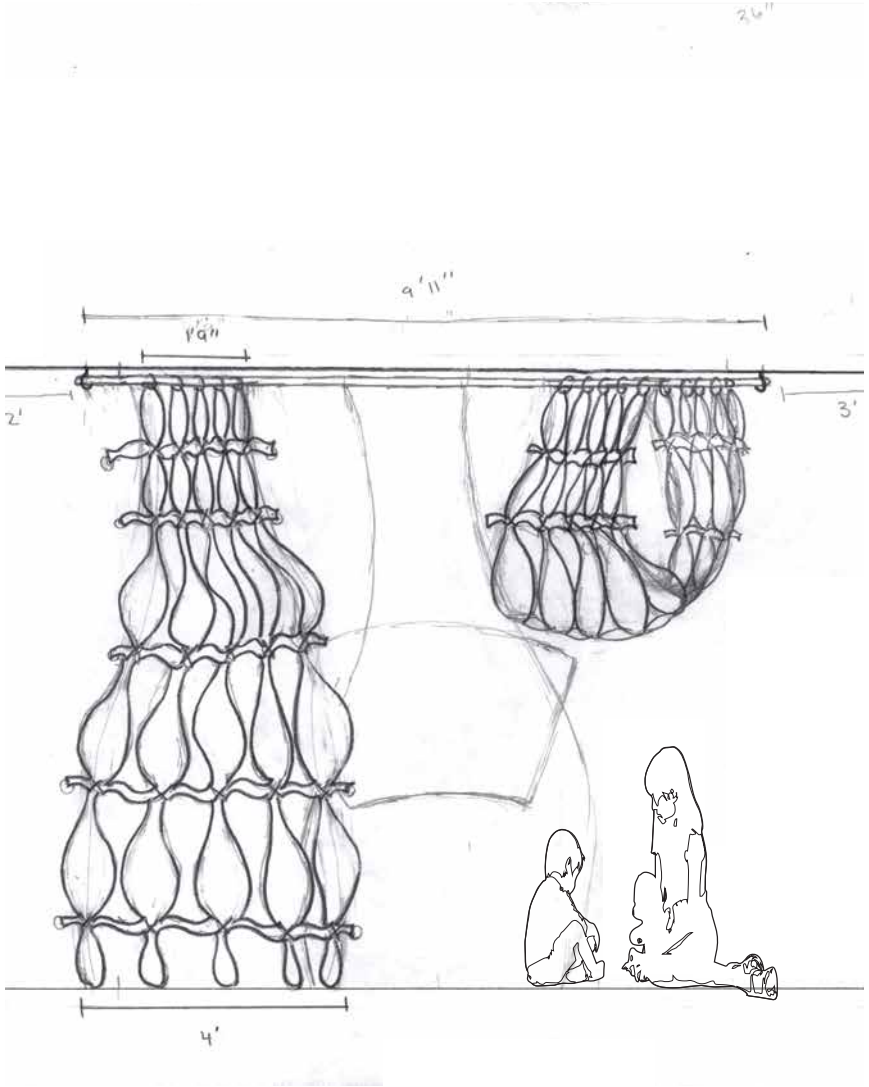
Concept Drawing



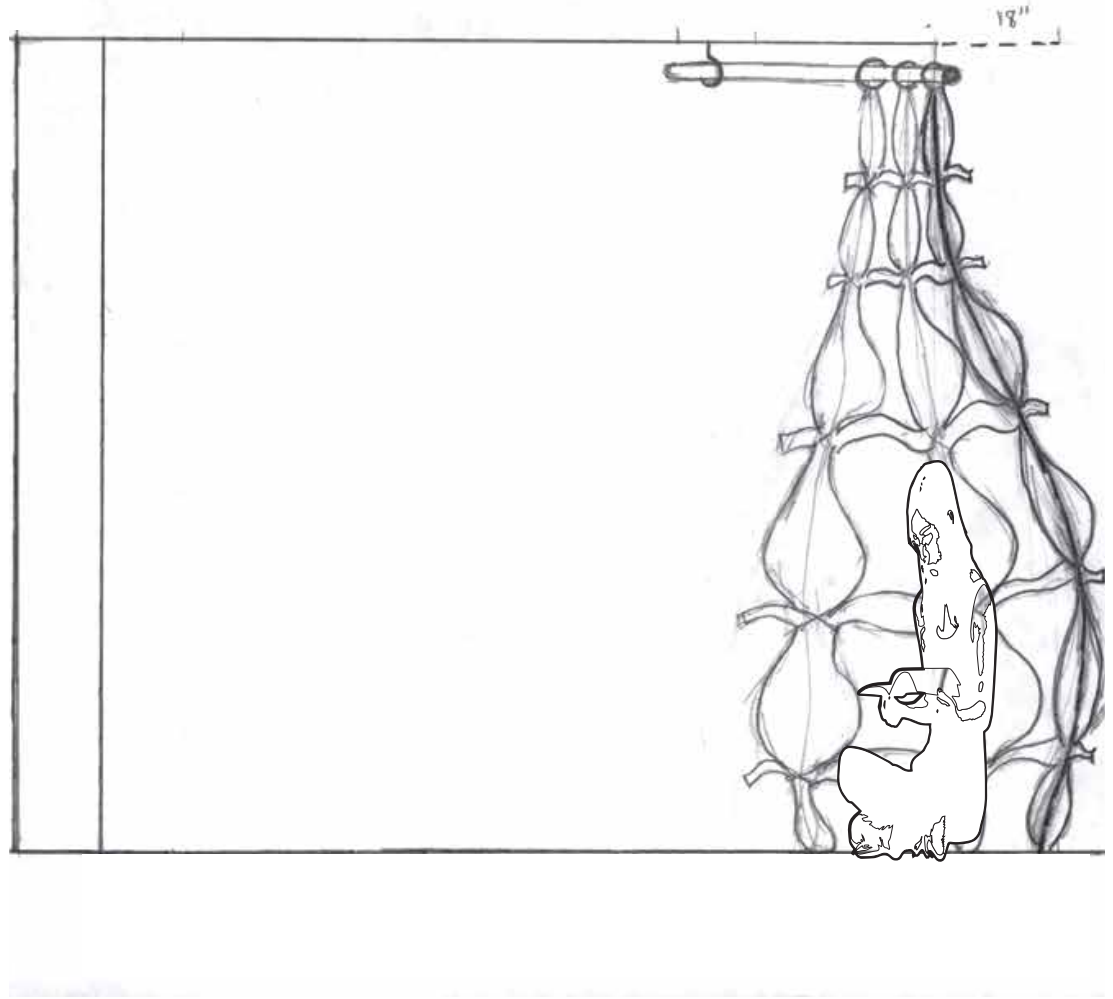


Front and Side View

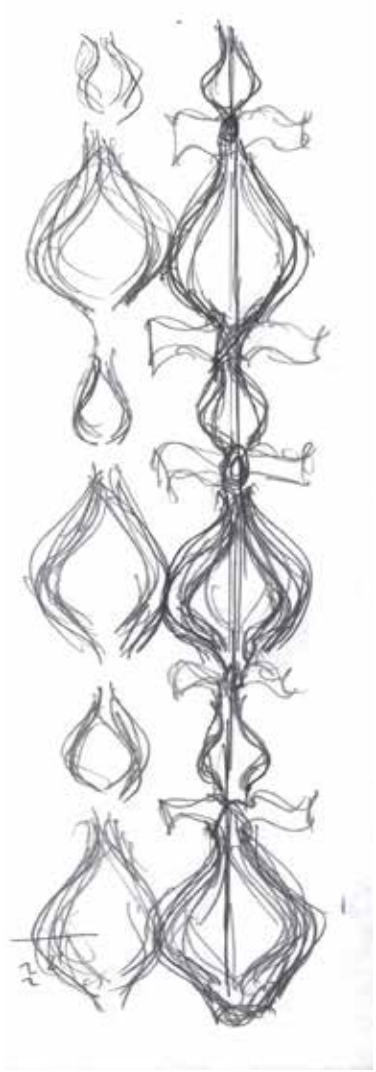
Knotted Belly Room

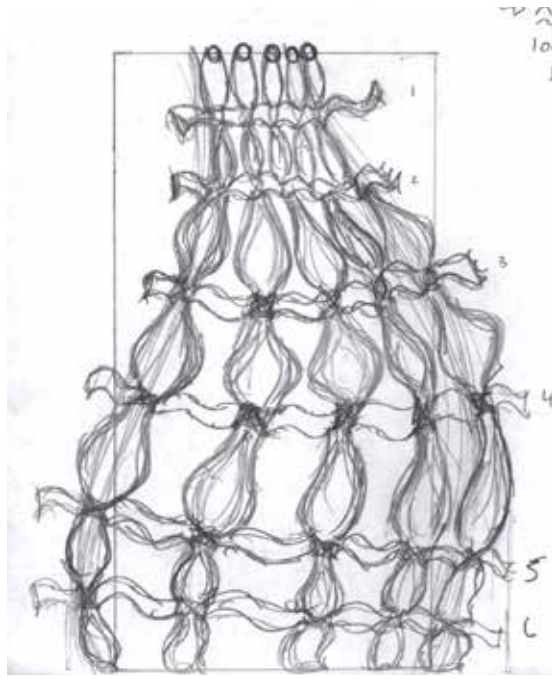


Elevation



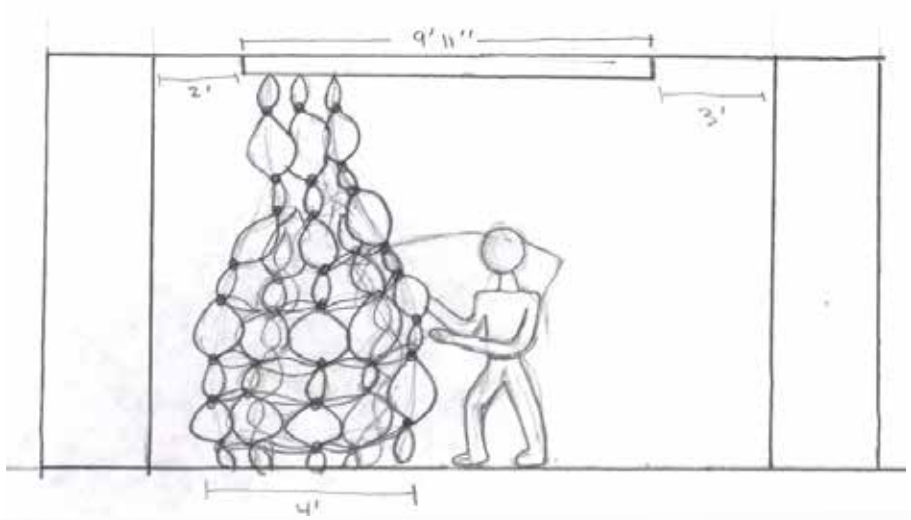
Section

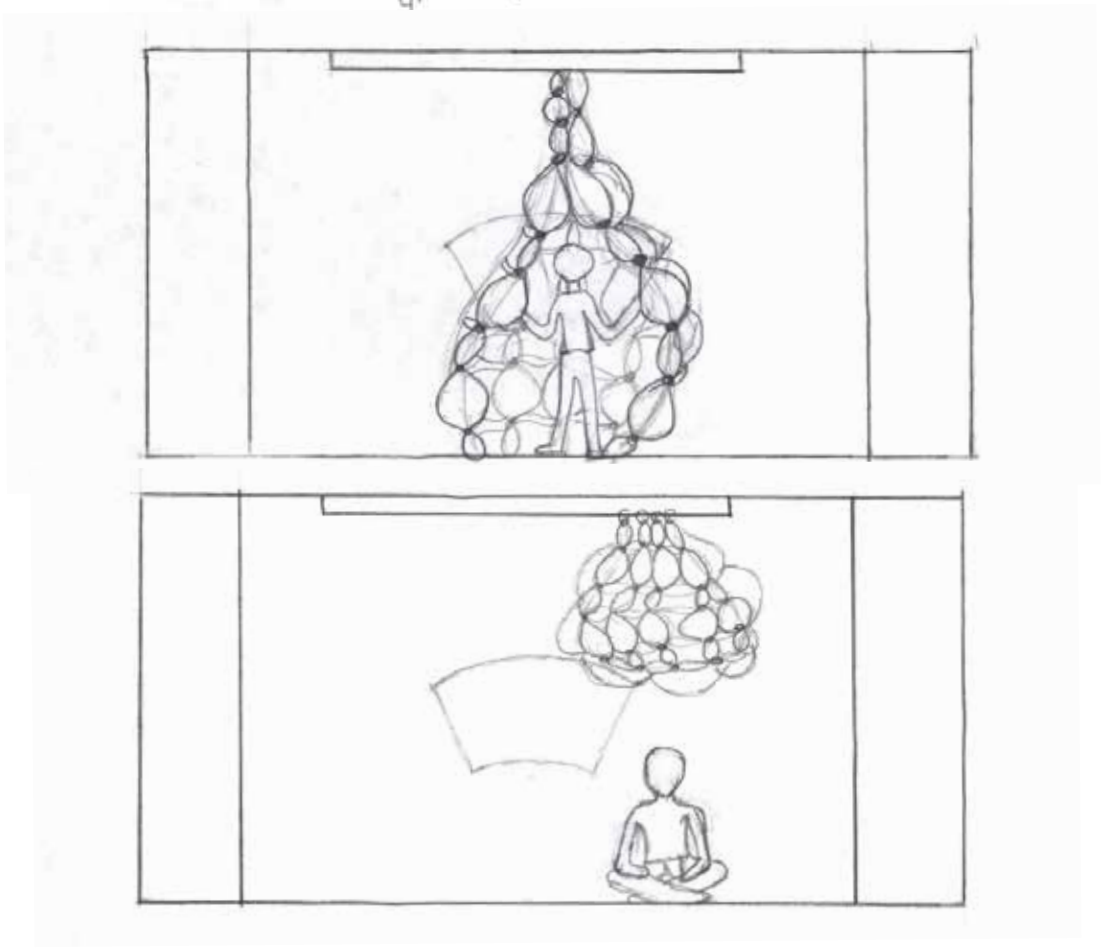




Exploration of Pattern - Bubble Pattern

Full Scale Model - Pattern Exploration





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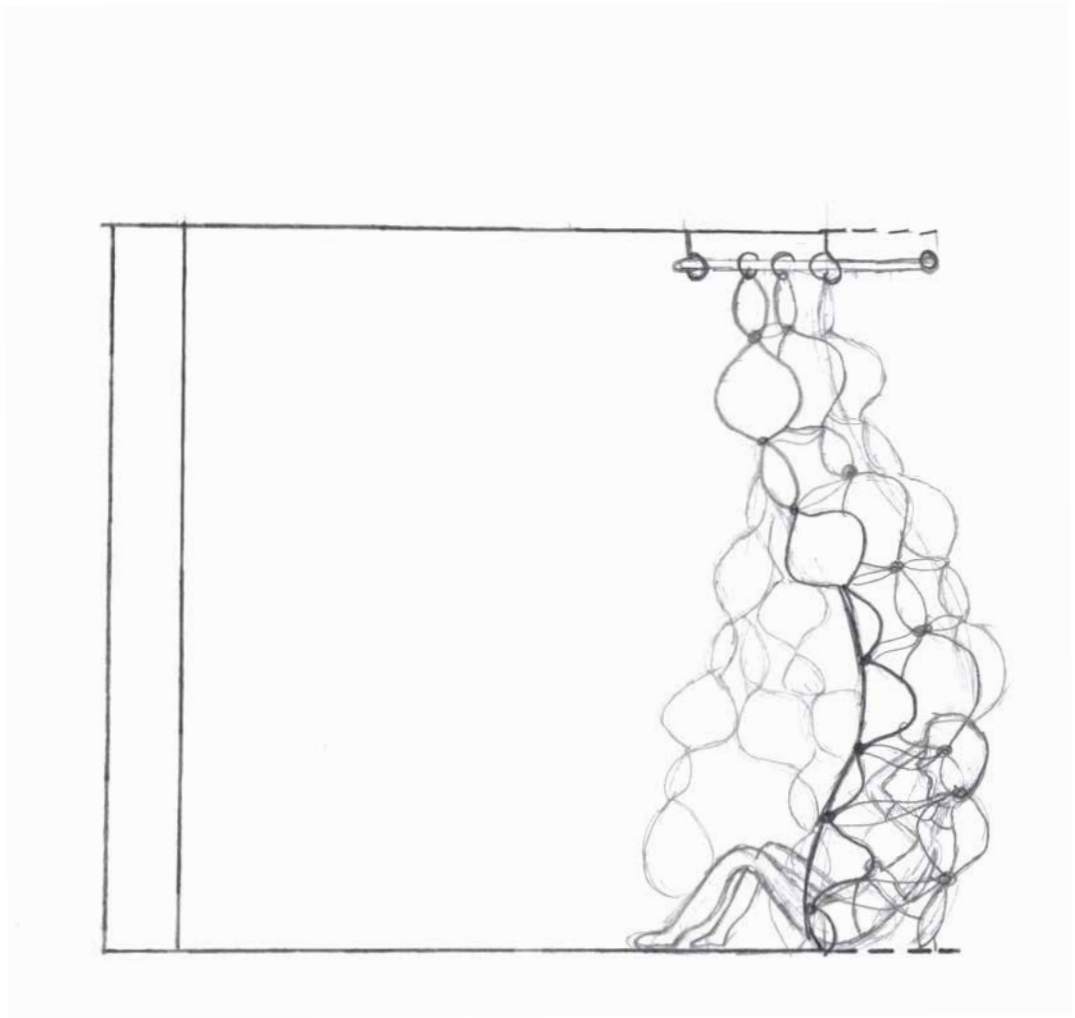
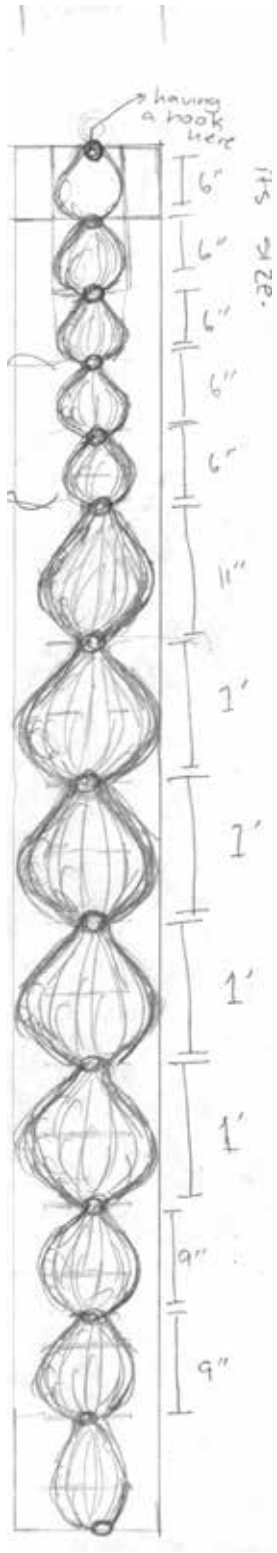
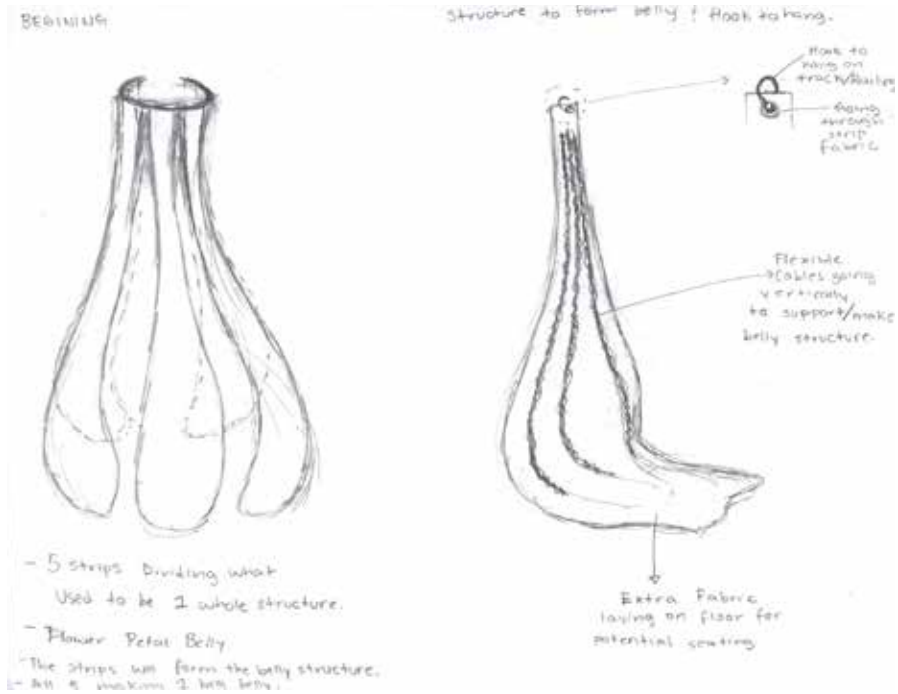


Section

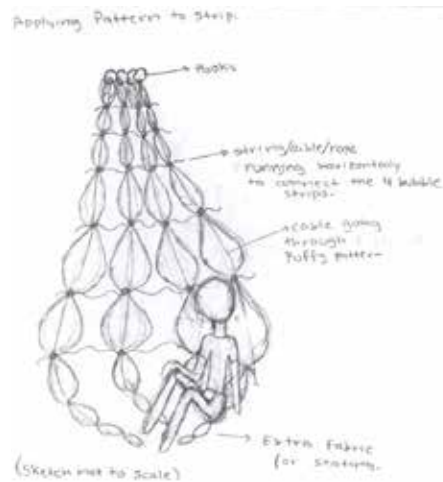
Bubble Pattern

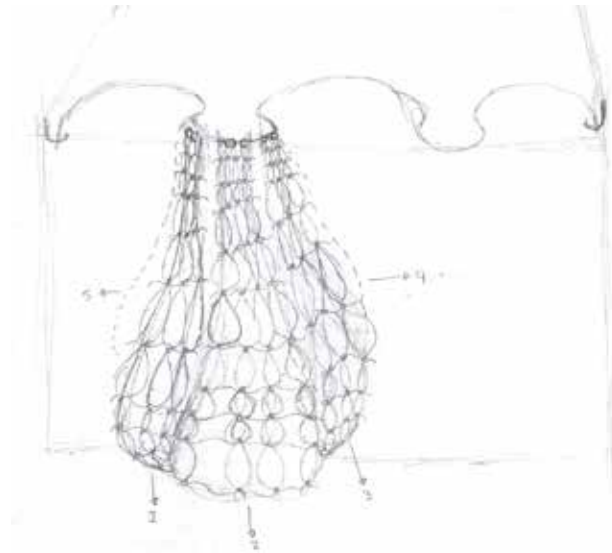
Model -Bubble Pattern Room



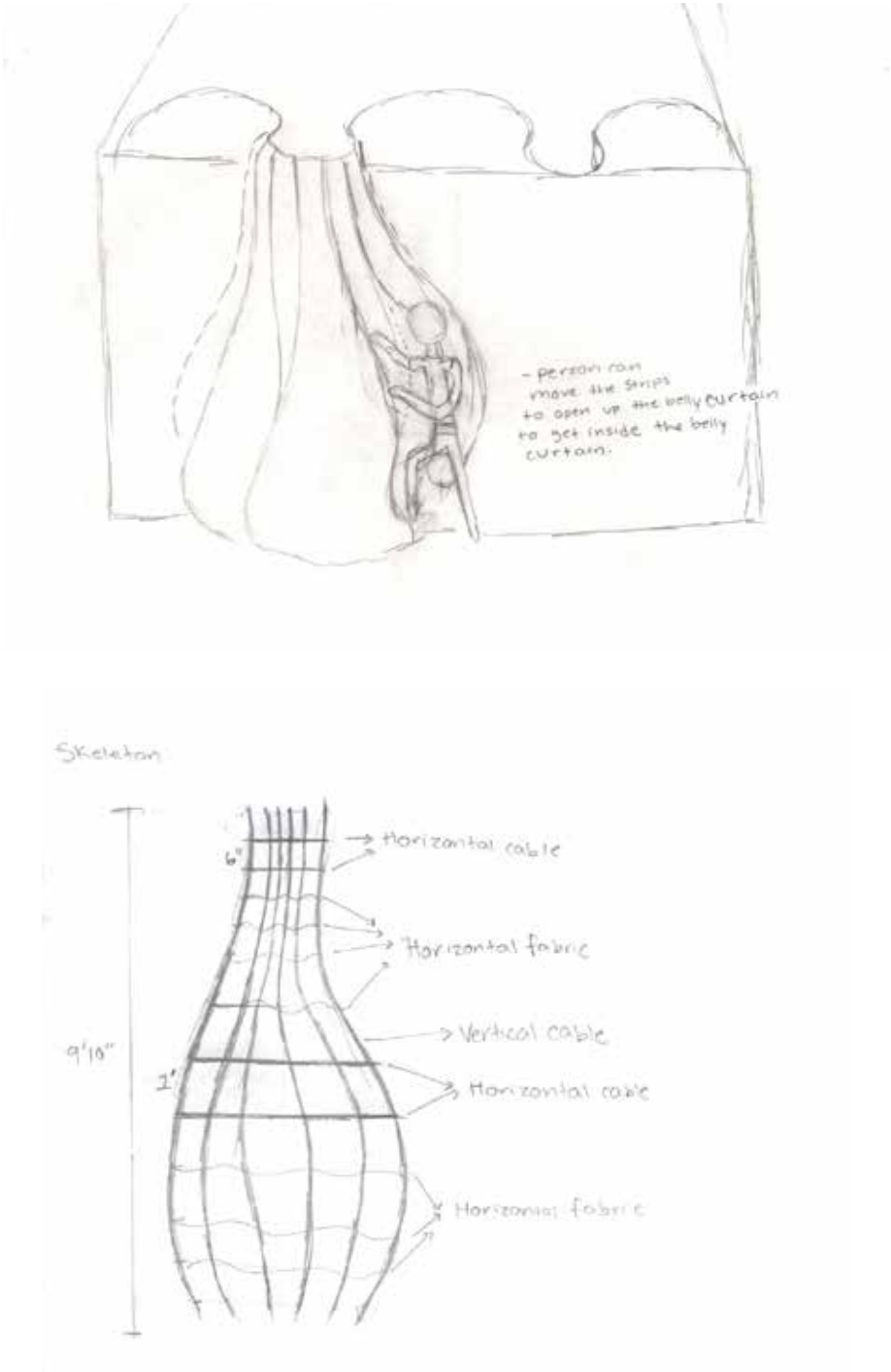


Sketch of Model Idea and Pattern



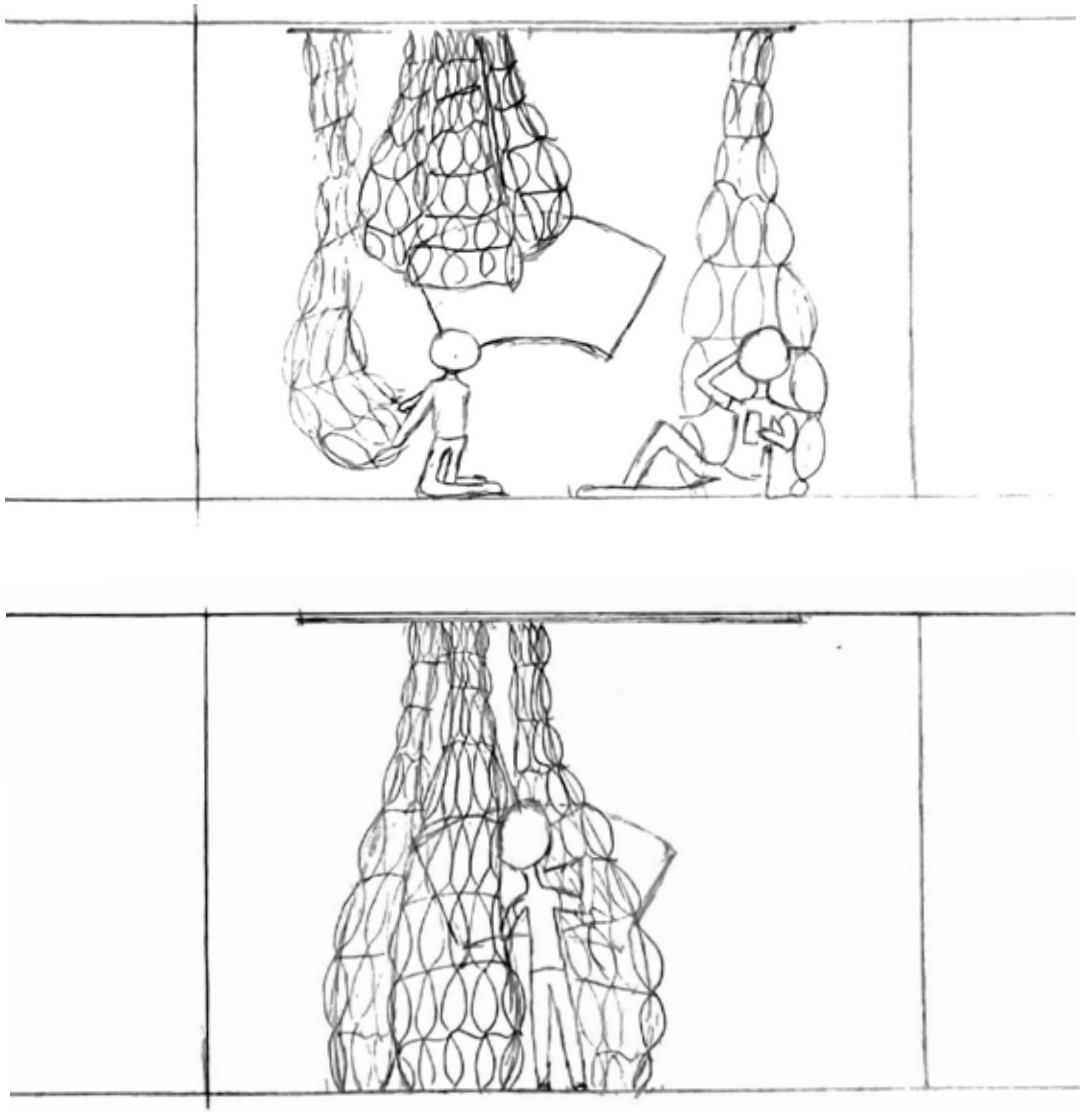


Sketch of Model Idea

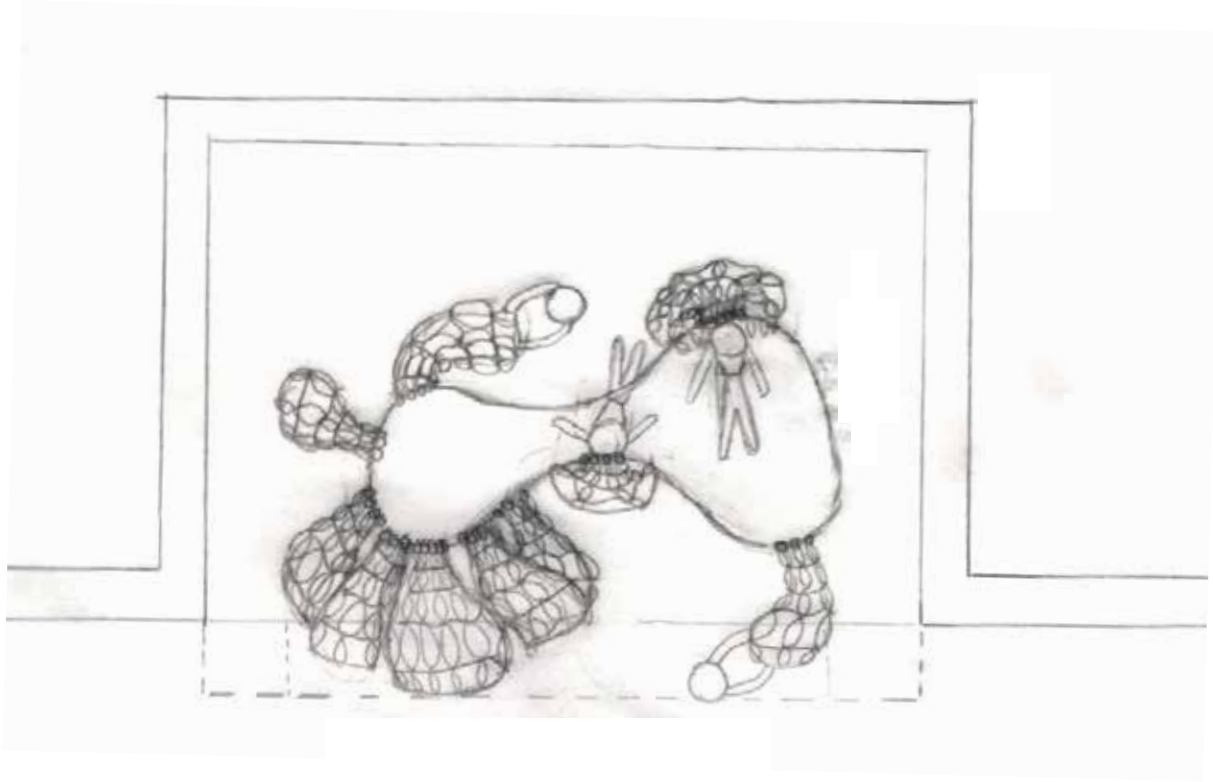


Sketch of Usage and Skeleton

Model and Material Test



Elevation



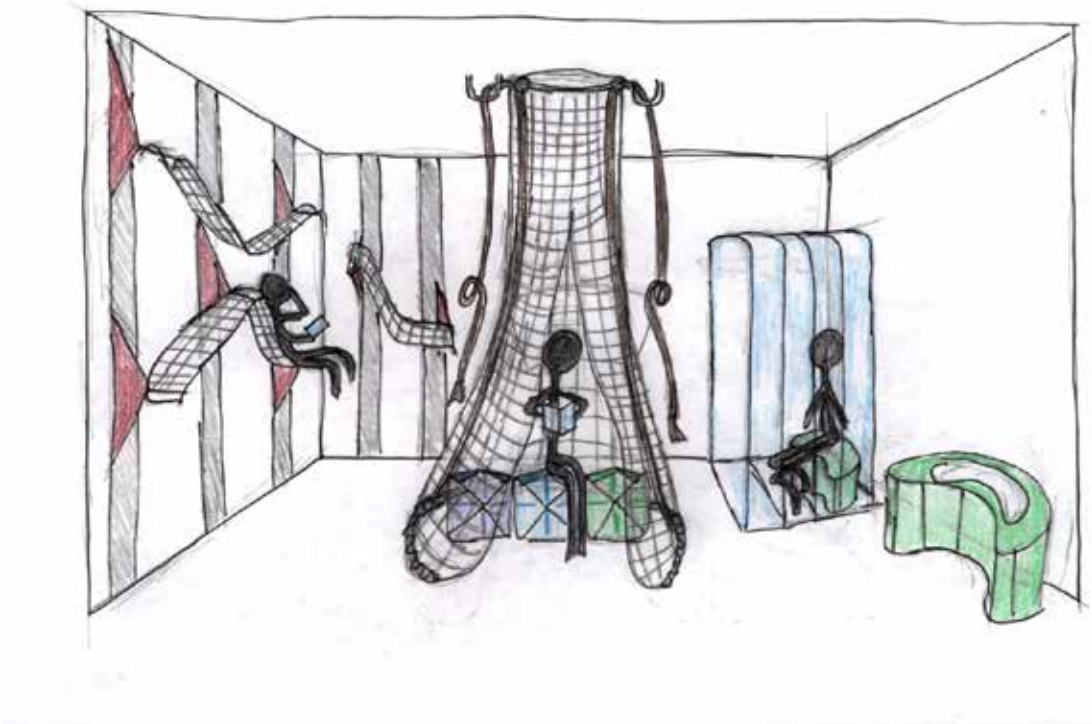
Plan

Tested Section Belly Model

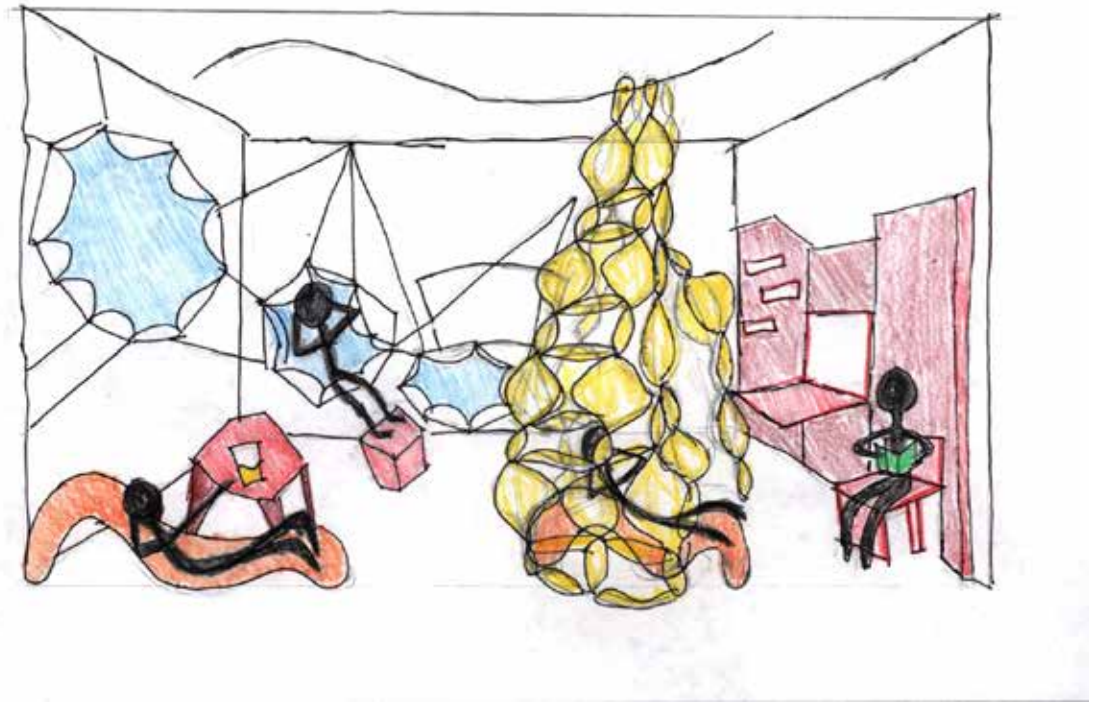
Tested Section Belly Model

Project 3

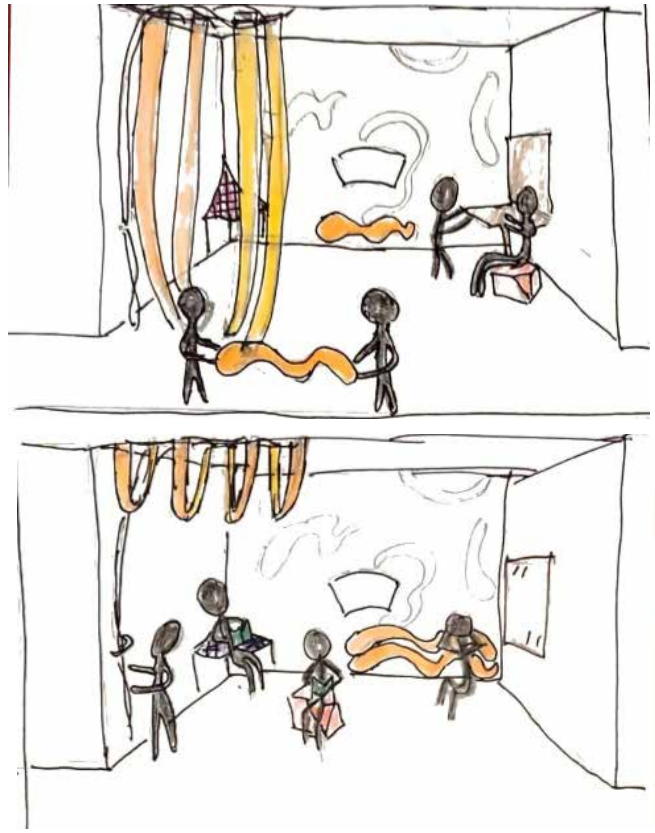
Collective in Site

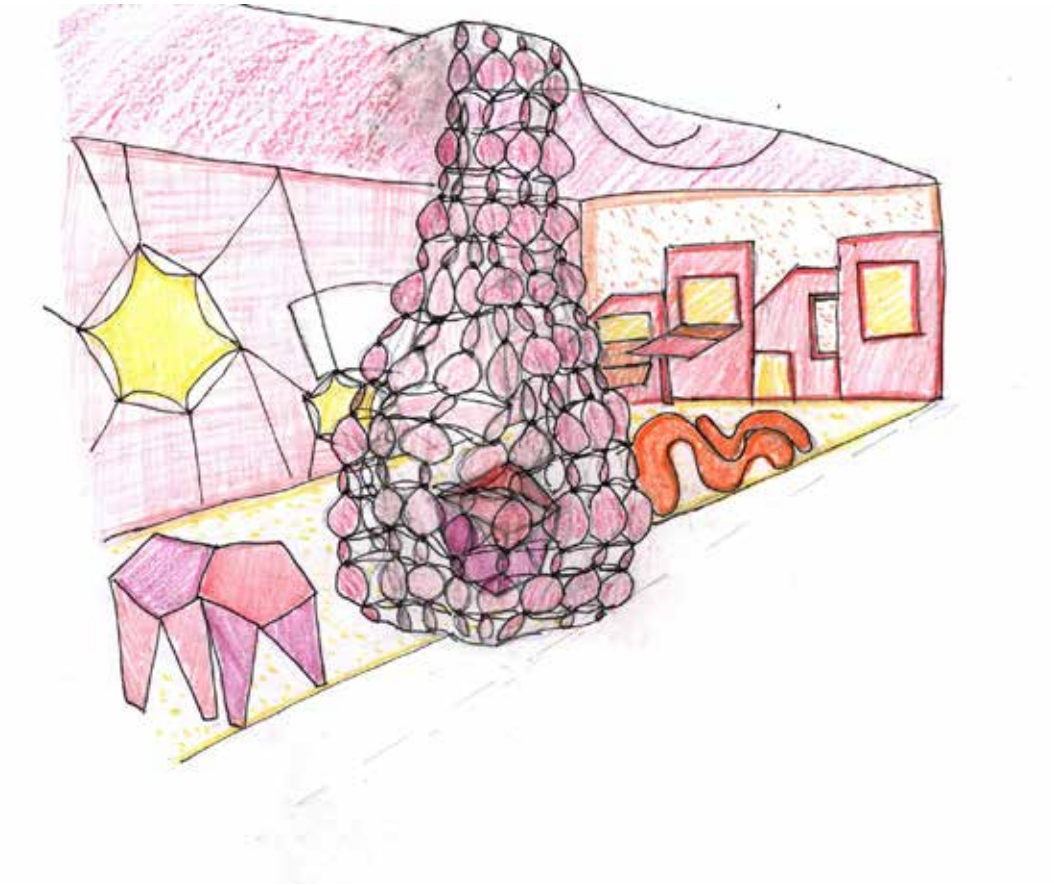


Group Site

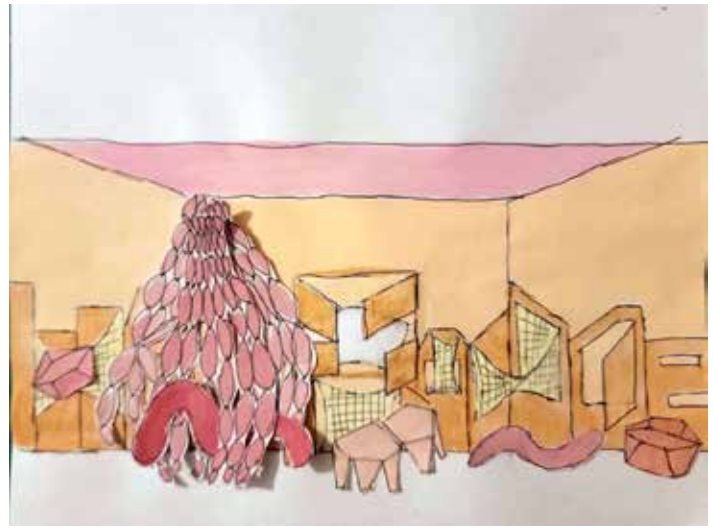


Group Site



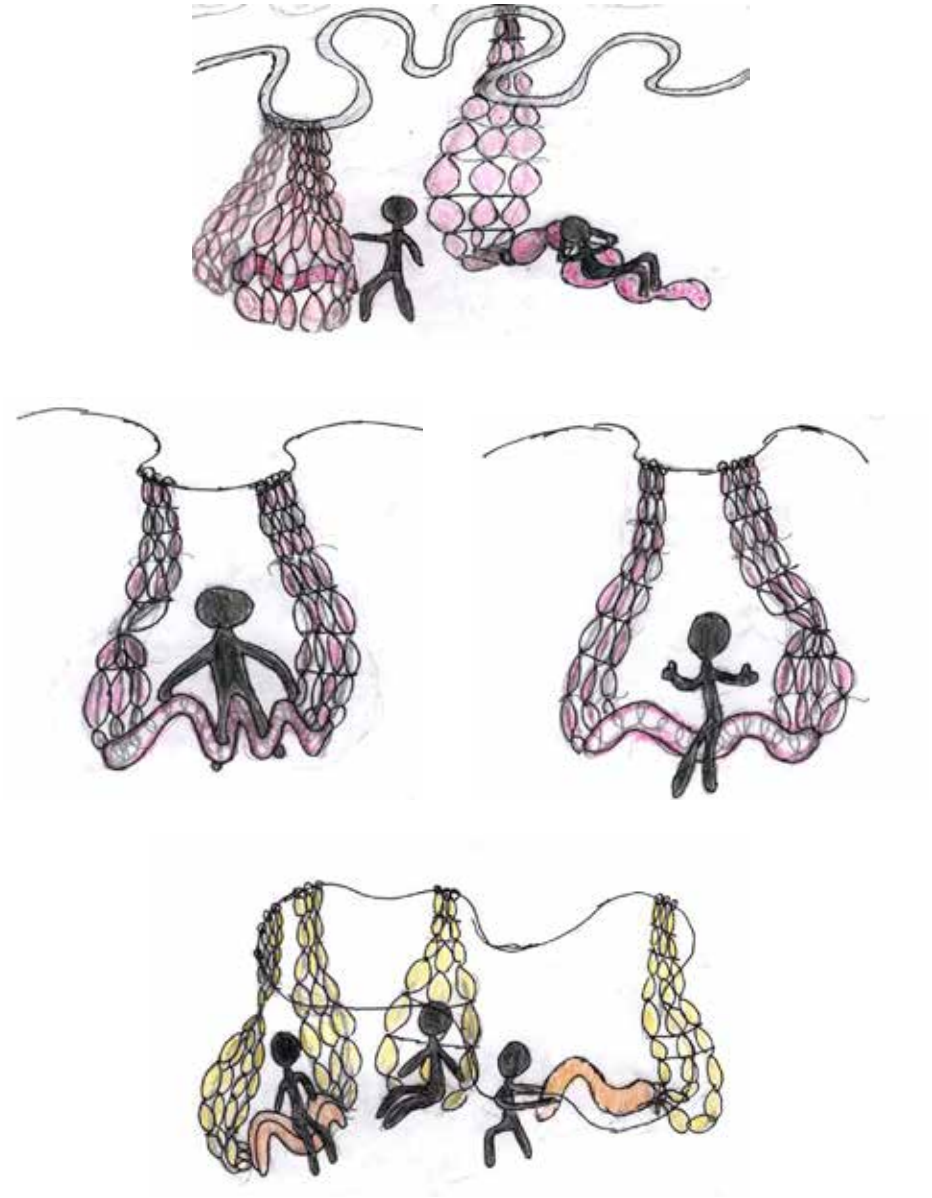


Perspective

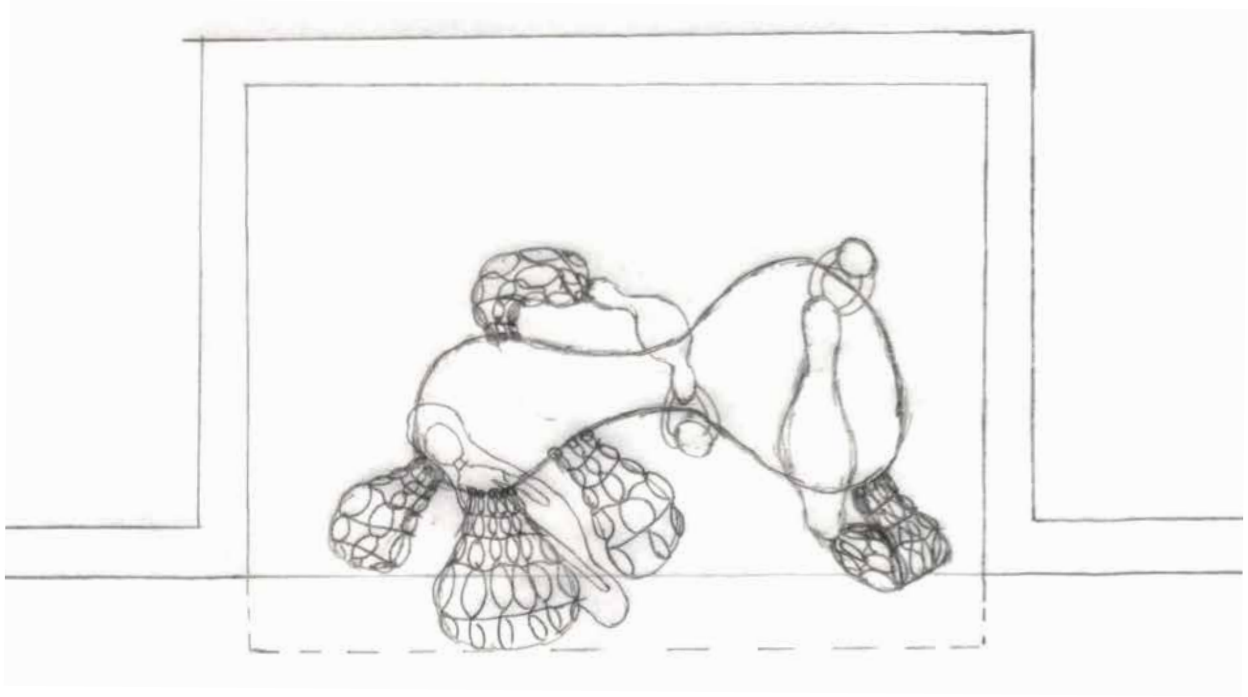


Site Color Collage

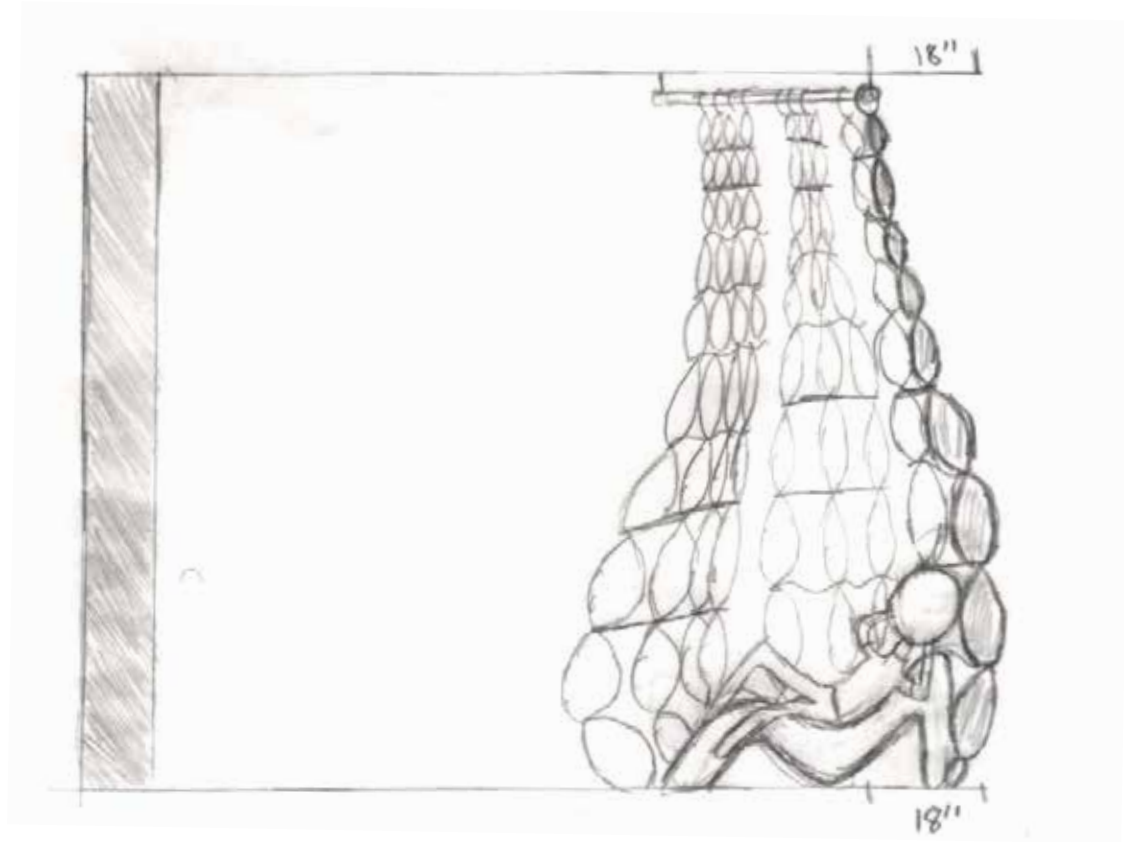
Site Model Photos



Alliance Ideas - Landscape and Curtain



Plan - Landscape and Curtain



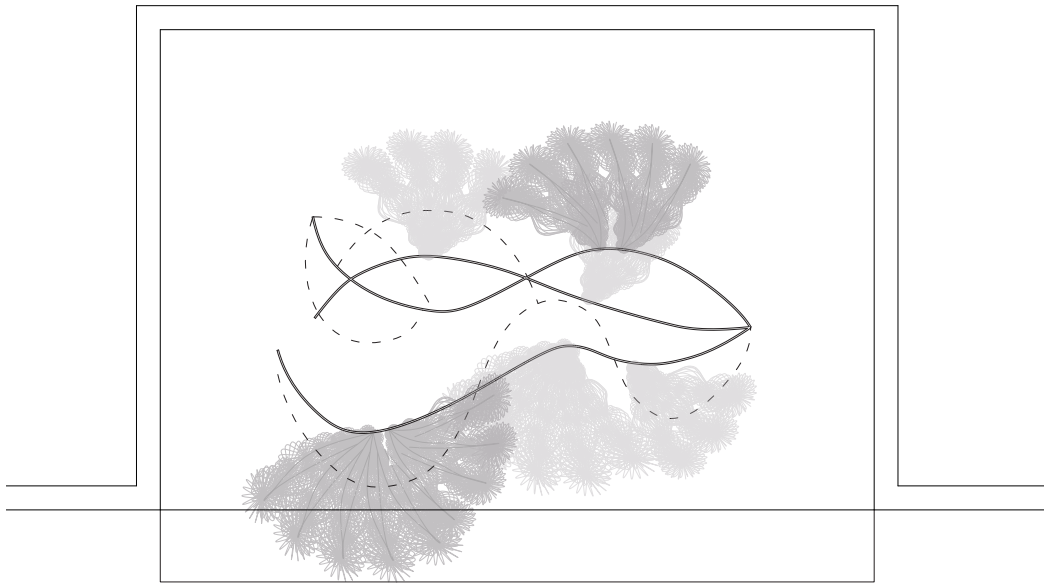
Section - Landscape and Curtain



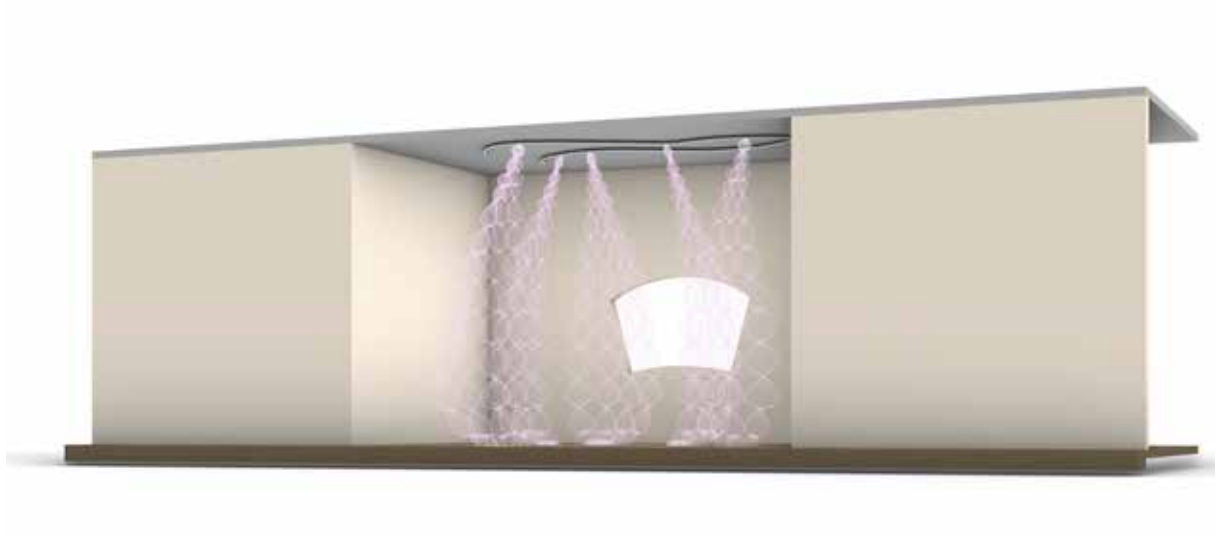

Model Following Railing Shape



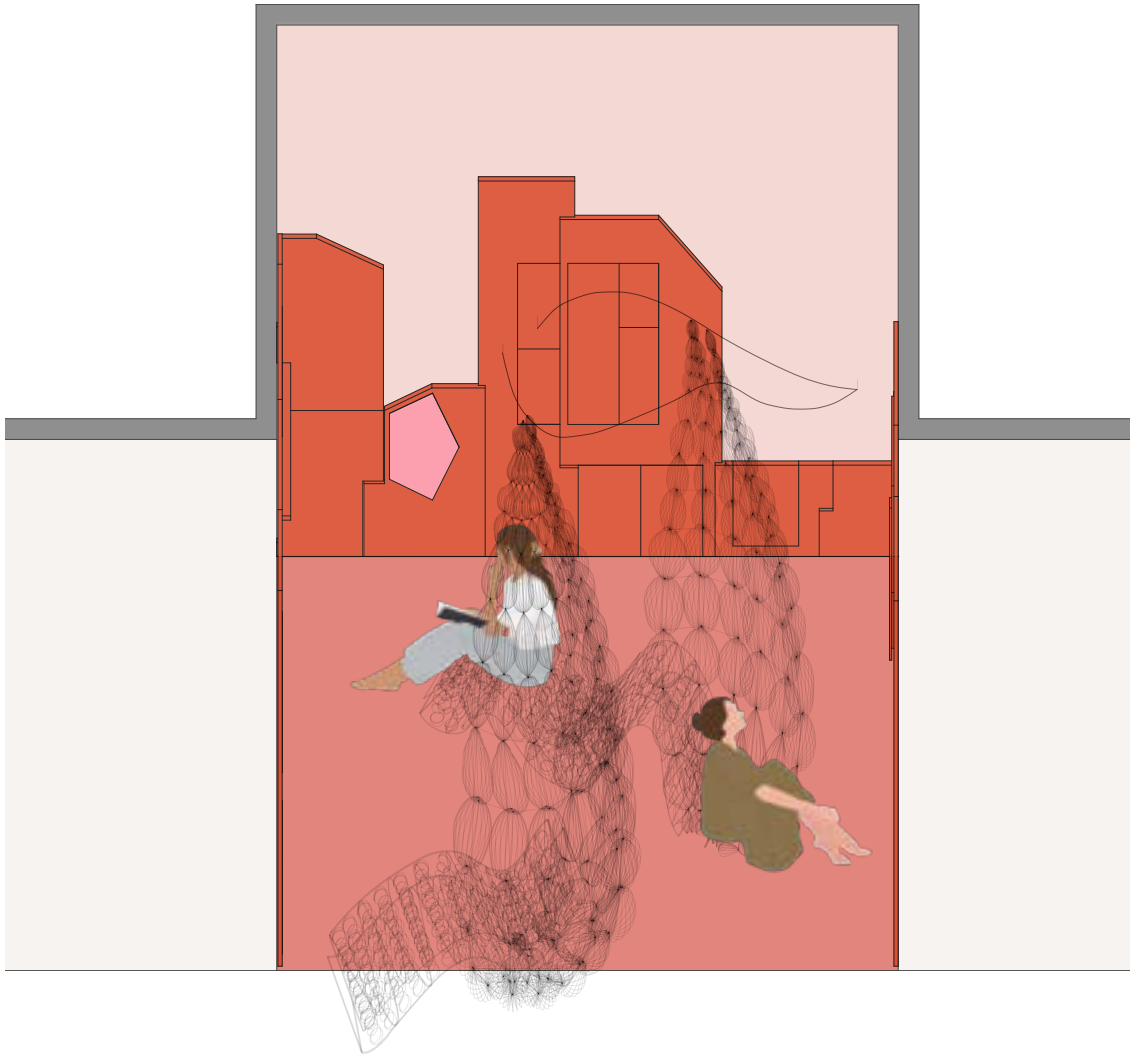

Left Side: full enclosed belly
Right:Strip test



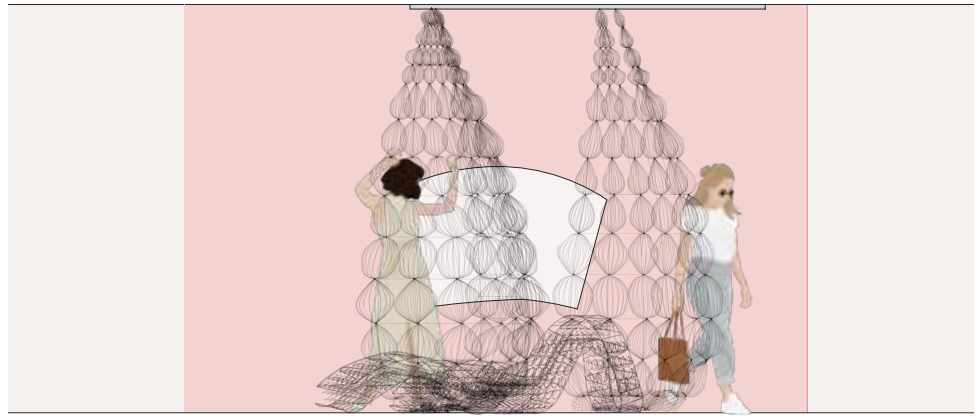
Plan



Perspective renders

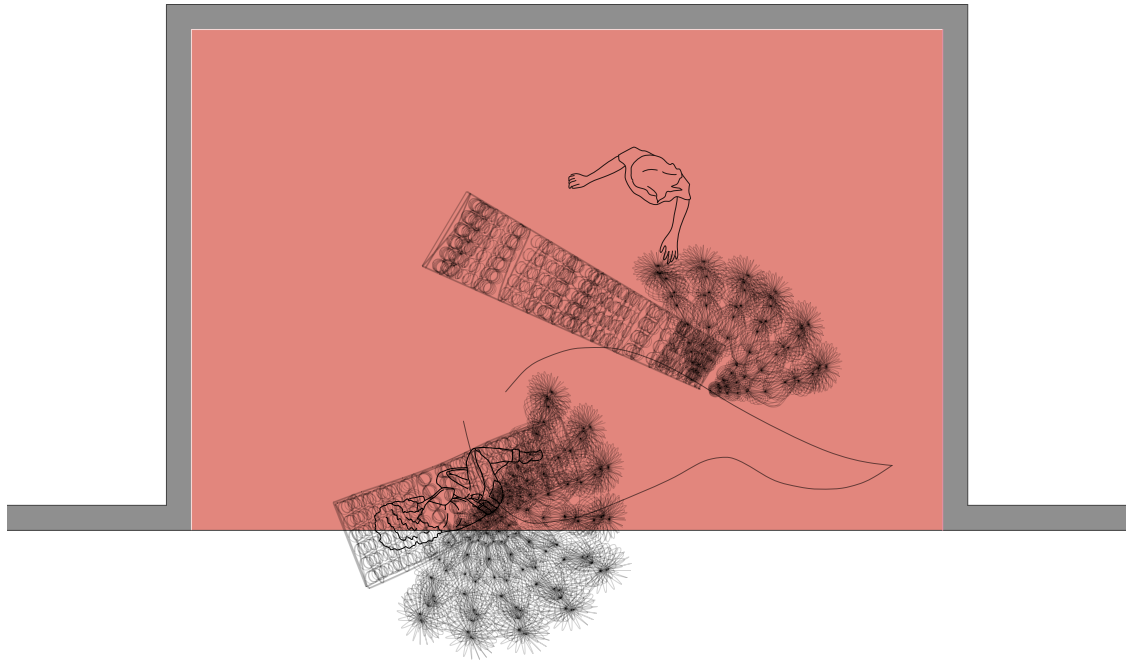


Axonometric

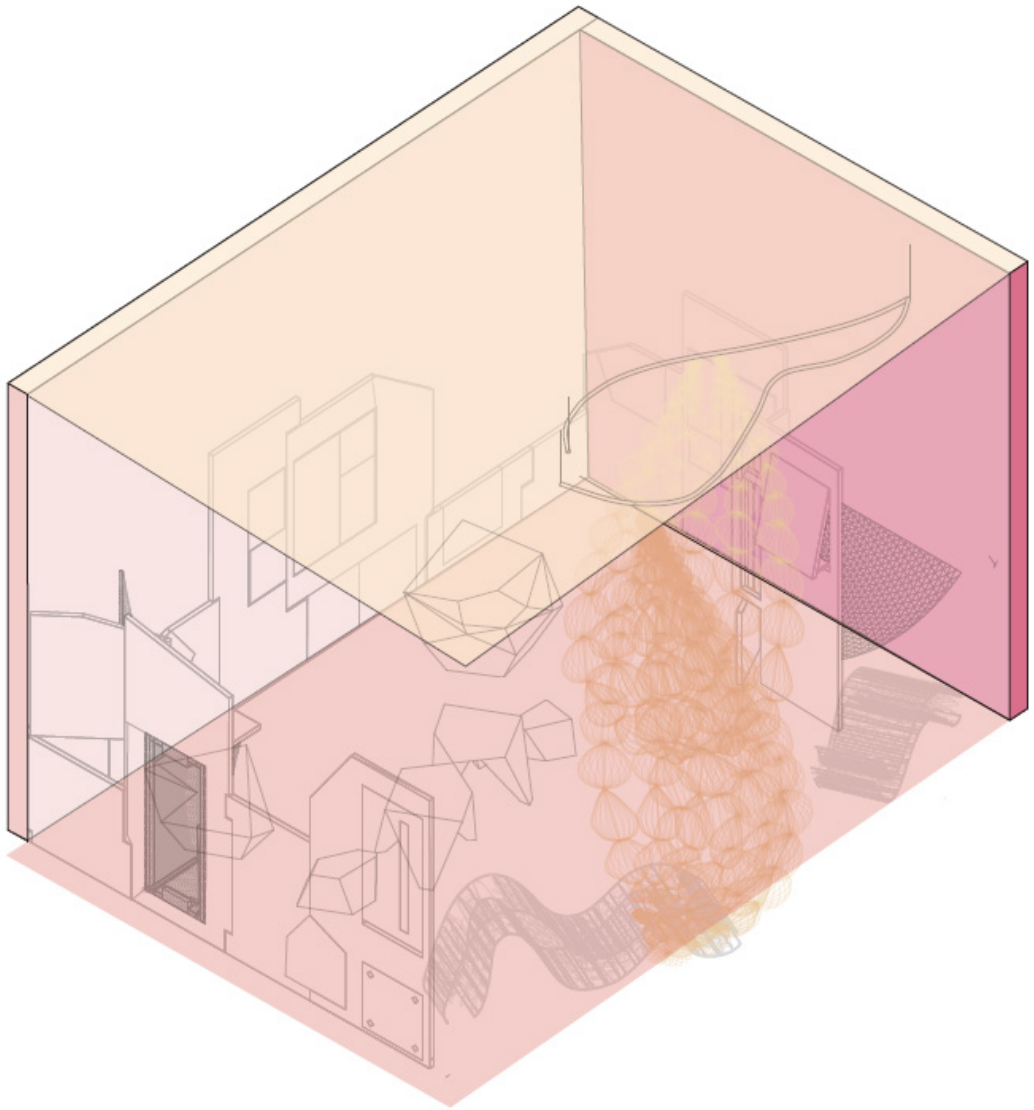


Elevation

Section

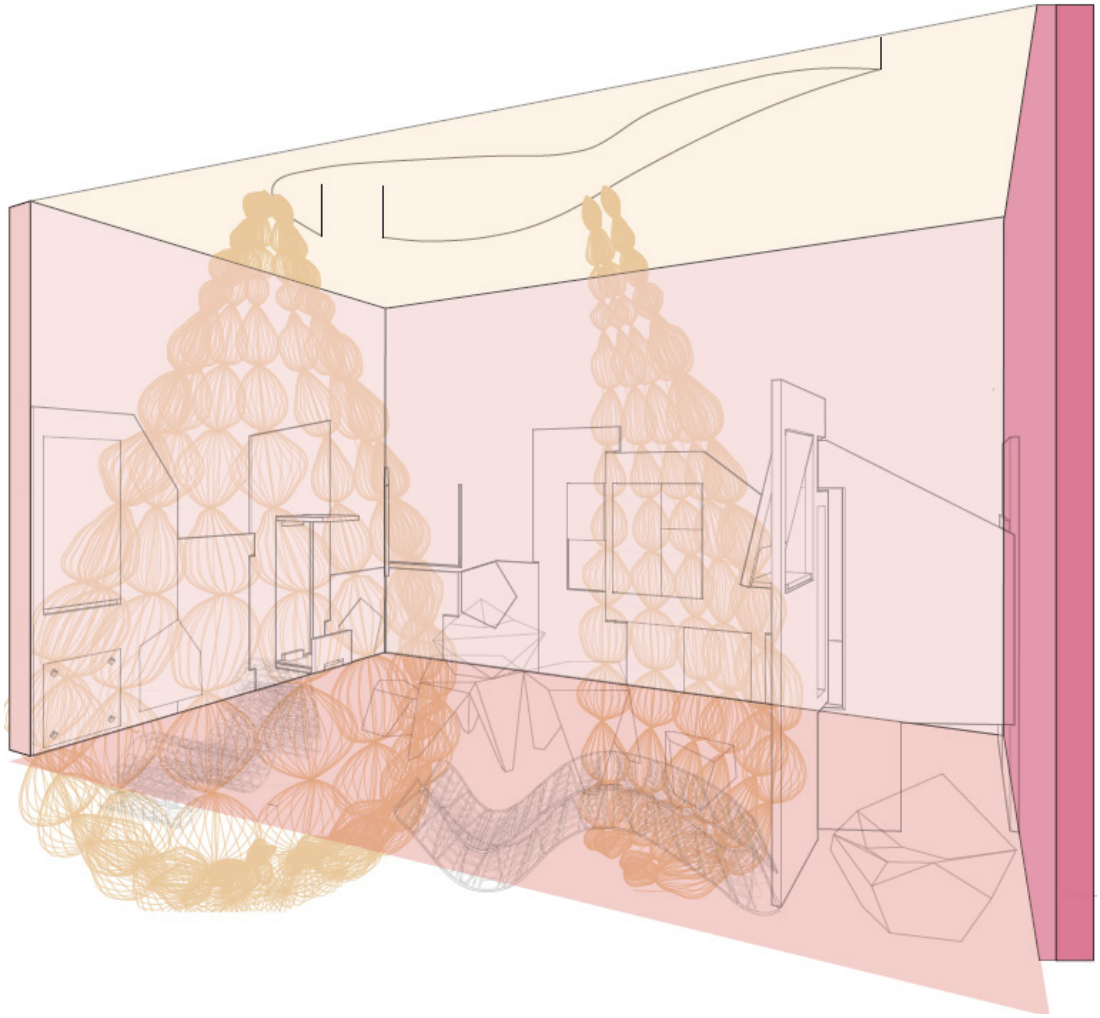


Plan

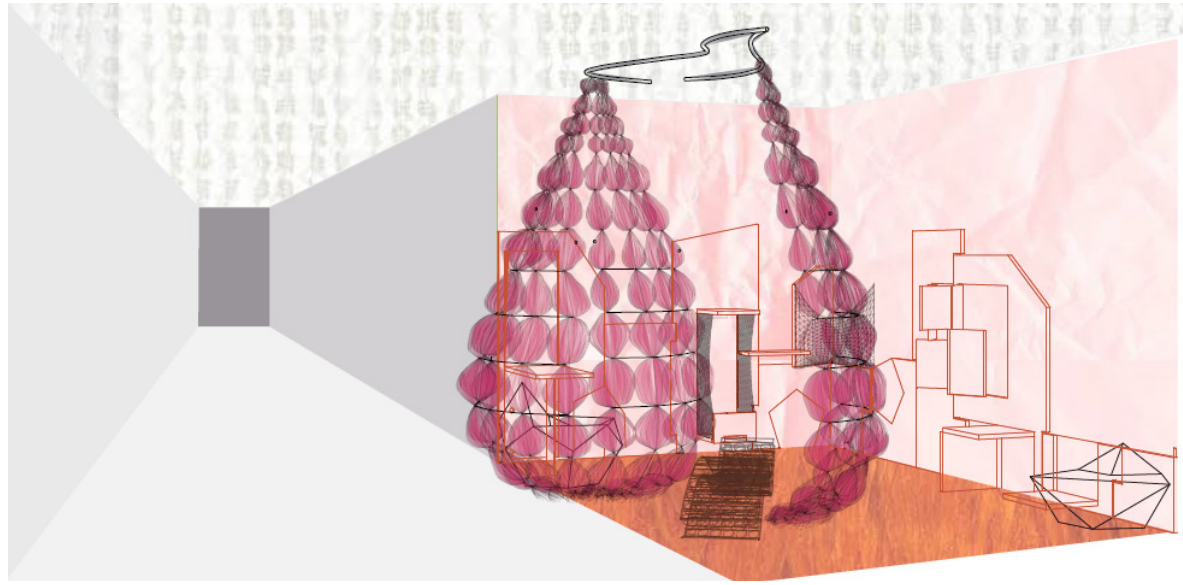


Axonometric

Axonometric



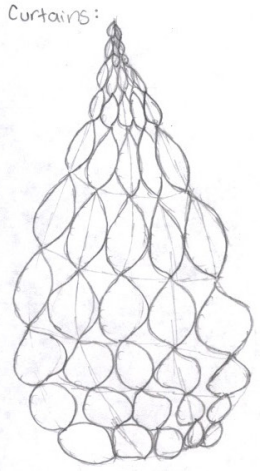
Axonometric



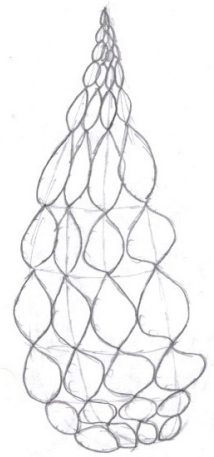
Perspective

Construction Manual

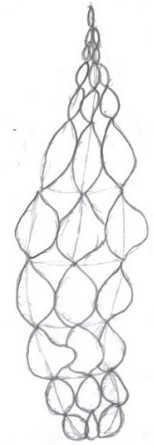
Curtains:



Curtain with 5 bubble strips.

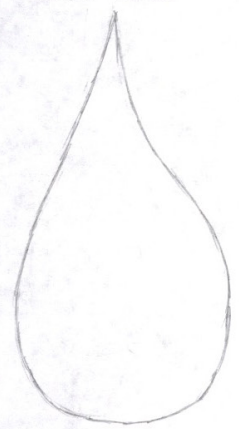


curtain with 4 bubble strips.

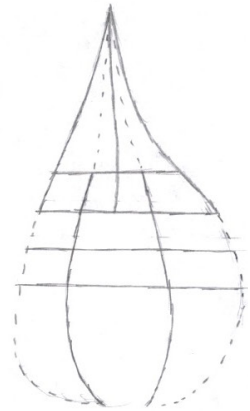


Curtain with 3 bubble strips.

Structure Details:



Drawing A

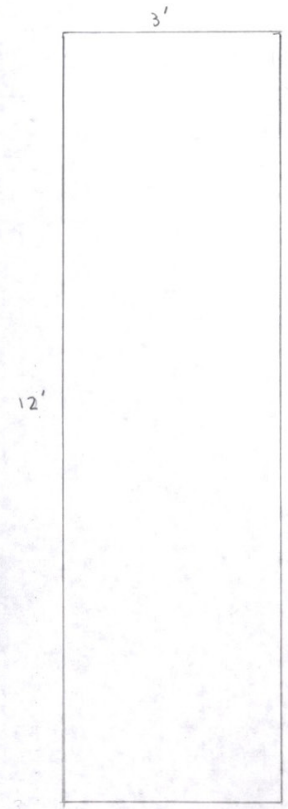


Drawing B

Drawing A:
The overall shape of the curtains. There will be 4 curtains. 1 curtain with 5 bubble strips. 1 curtain with 4 bubble strips. 2 curtains with 3 bubble strips.

Drawing B:
Each curtain has wire structure. The curtain of 5 bubble strips has 3 vertical wires (top to middle) and 2 vertical wires (bottom to middle). (vertical structure varies on curtain). Each curtain has 4 horizontal wires.
More details to be explained.

How to make a bubble strip?



Cut your fabric 3' wide and 12' long

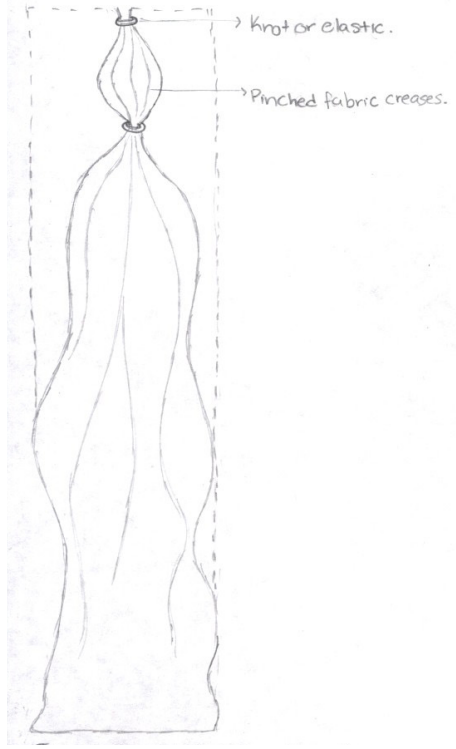
4 bubbles with 6" height.

1 bubble with 11" height.

6 bubbles with 12" height.

3 bubbles with 6" height.

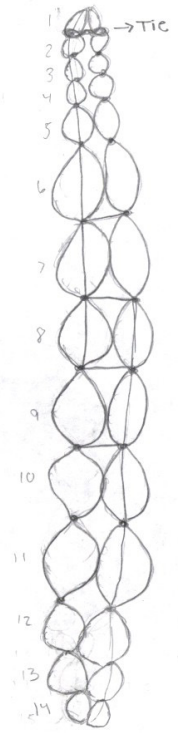
Set up the Fabric



Pinch fabric together and tie the ends of the bubbles with an elastic or string.

(zoomed in detail)

Apply starch to the bubble shape to hold the shape and volume.



With all the bubble strips created to form a designated curtain Pass vertical and horizontal wire through the bubbles.

Curtain of 5: 3 vertical wires (top to middle) and 2 vertical wires (bottom to middle)

Curtain of 4: 2 vertical wires (top to middle) 2 vertical wires (bottom to middle)

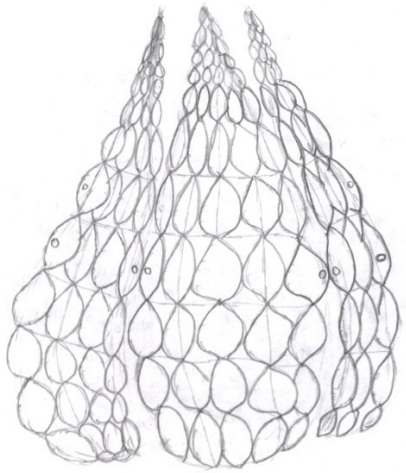
Curtain of 3: 2 vertical wires (top to middle) 1 vertical wire (bottom to middle)

Horizontal wire for each curtain:
- 6th and 7th bubble intersection.
- 7th and 8th bubble intersection.
- 8th and 9th bubble intersection.
- 9th and 10th bubble intersection.

Creating Bubbles

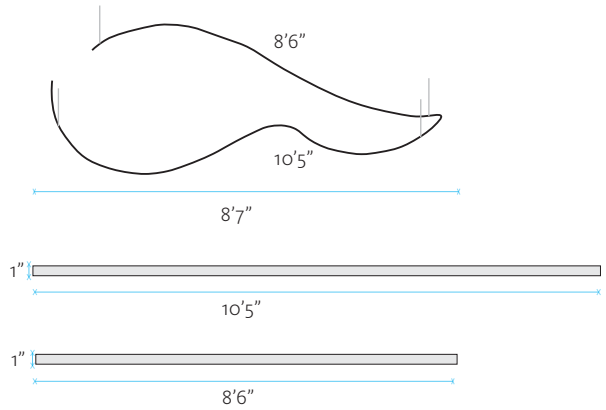
Disconnect and connect with a magnet:

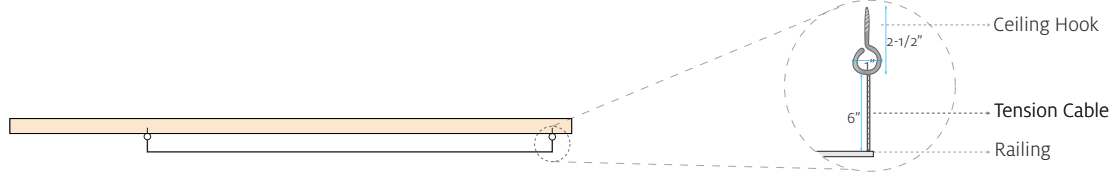
Once you have your curtains, glue on one magnet on both of the edge bubble strips of the curtains on the 8th bubble. Make sure the magnet is glued on the center and aligns with each of the curtains. With the magnets you will be able to connect all of the curtains to create a belly room or disconnect them to have belly walls.



Connecting the Curtains

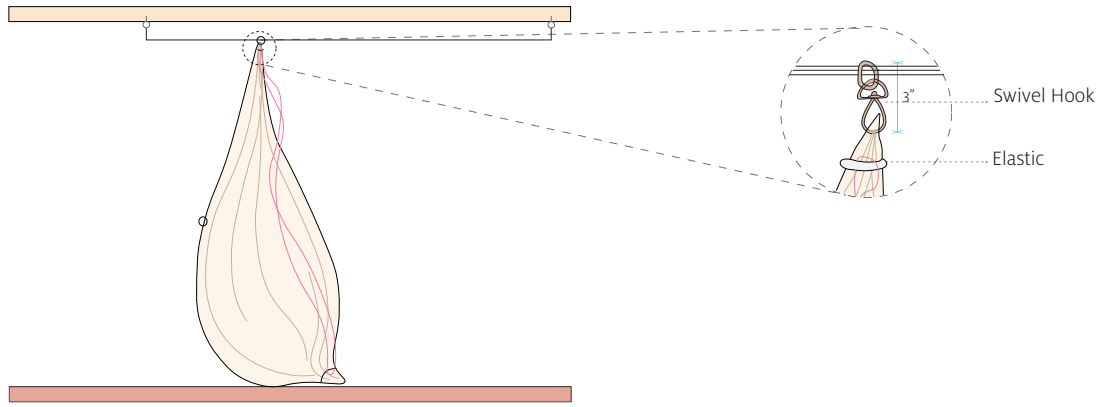
Railing Dimensions:

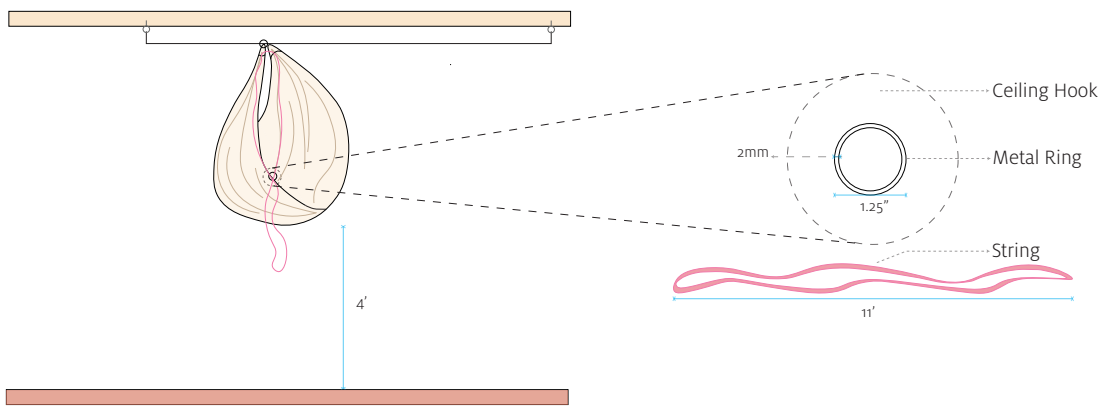




Railing Properties

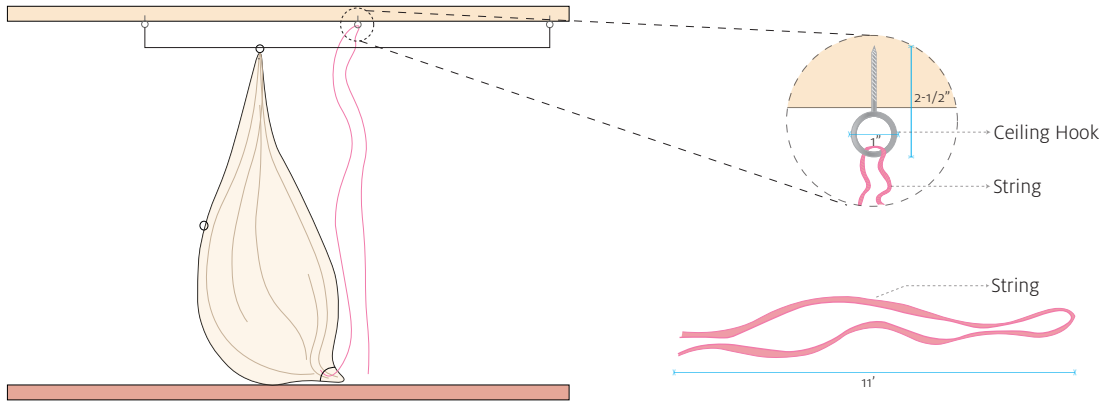
Pull Up System 1:

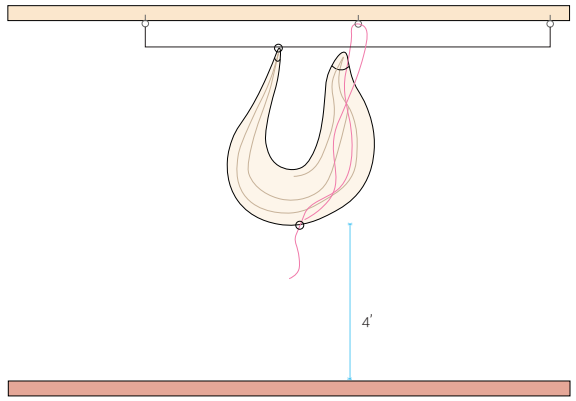




Pull up system 1

Pull Up System 2:





Pull up system 2

Final Model in Site

Final Model in Site

Final Model in Site

Final Model in Site