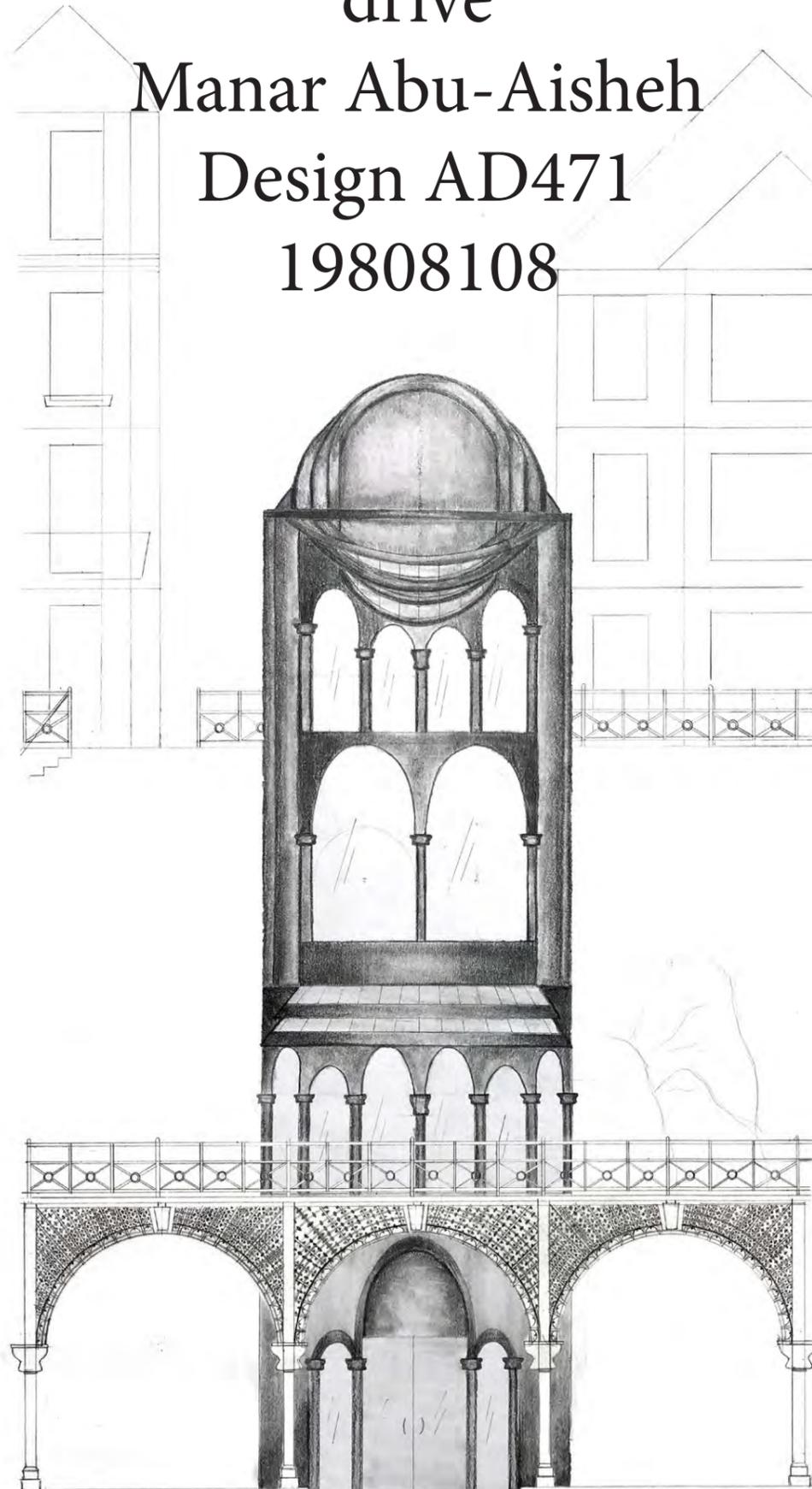


Jewellery workshop at Madeira
drive

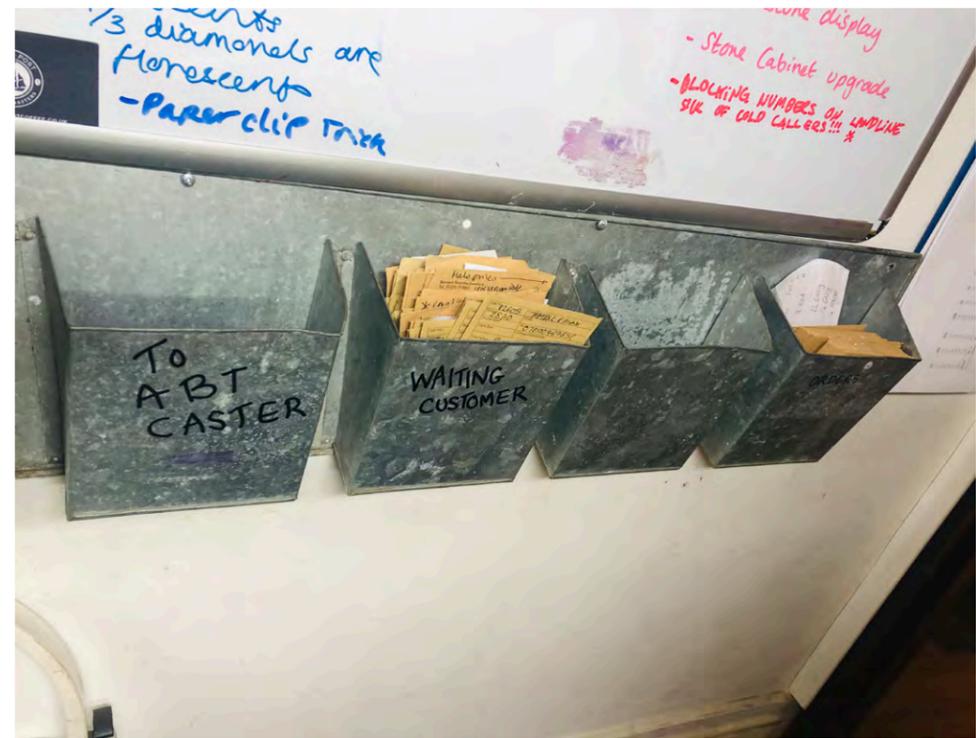
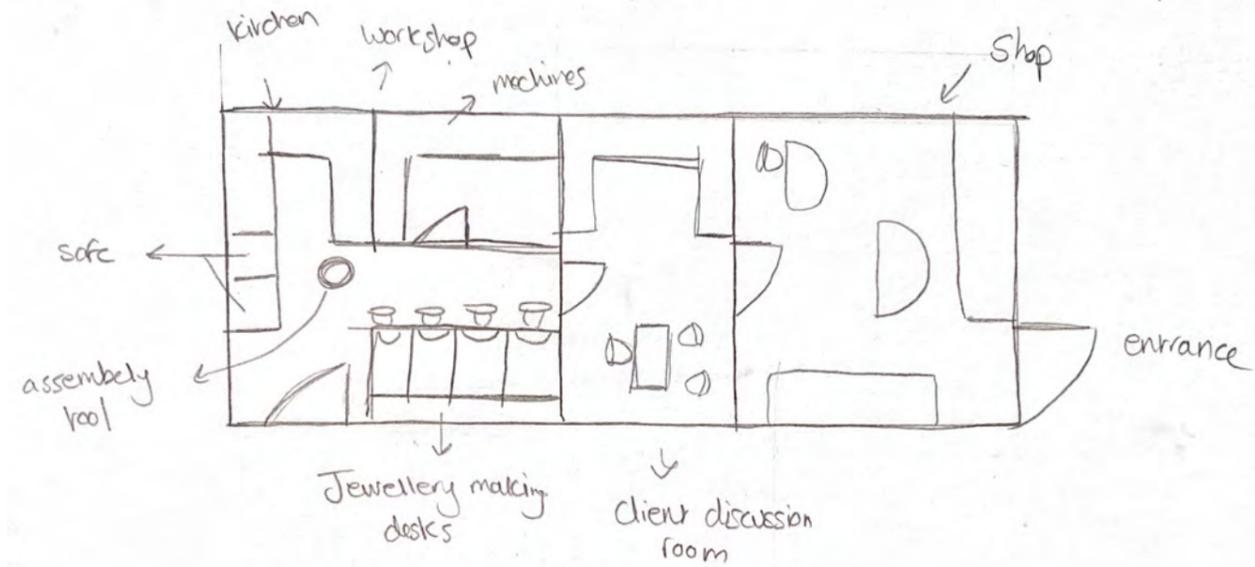
Manar Abu-Aisheh

Design AD471

19808108



Workshop visit

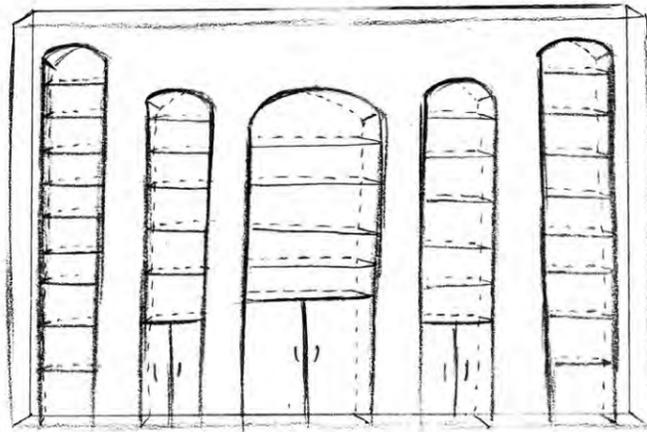
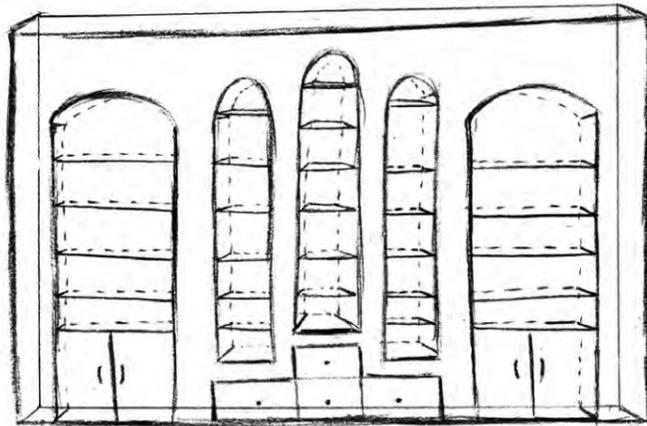
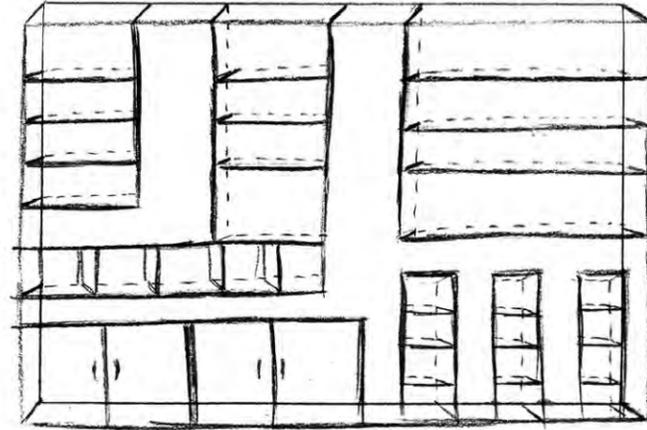
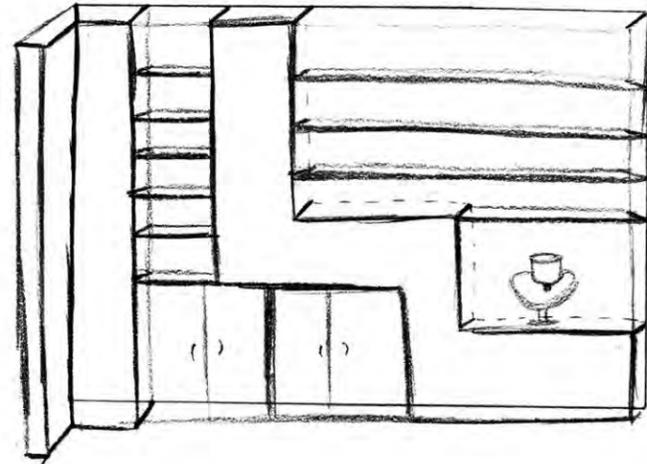


From my workshop visit I found out that a space for discussing designs with clients is required; Along with some organising spaces.

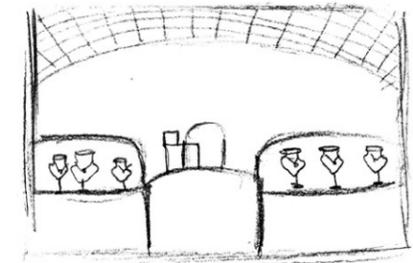
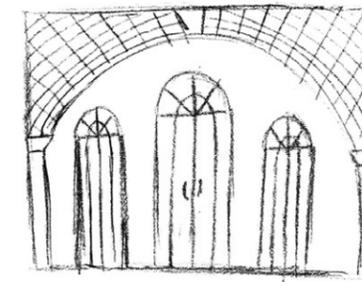
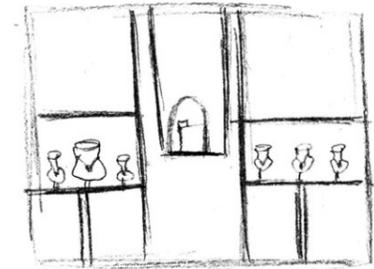
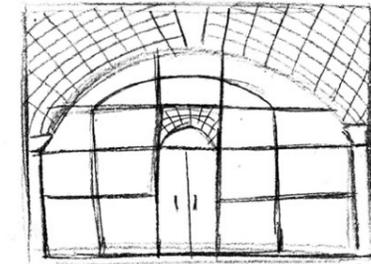
Storage

- Jewellery shop display

Sides



Entrance and cashier

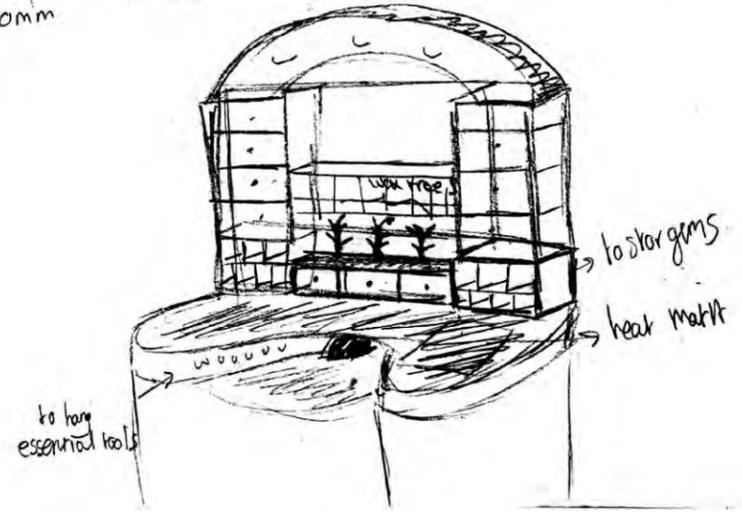
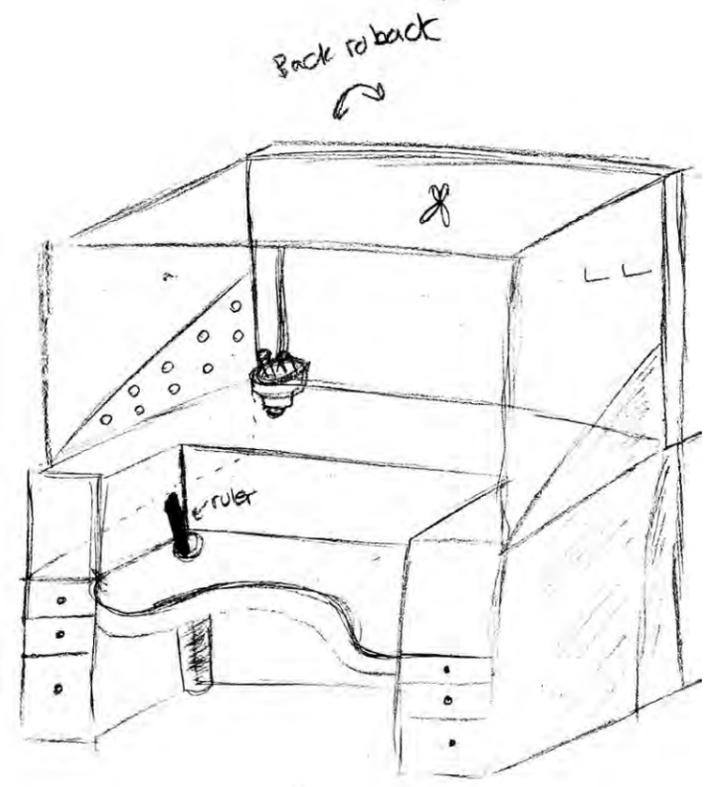
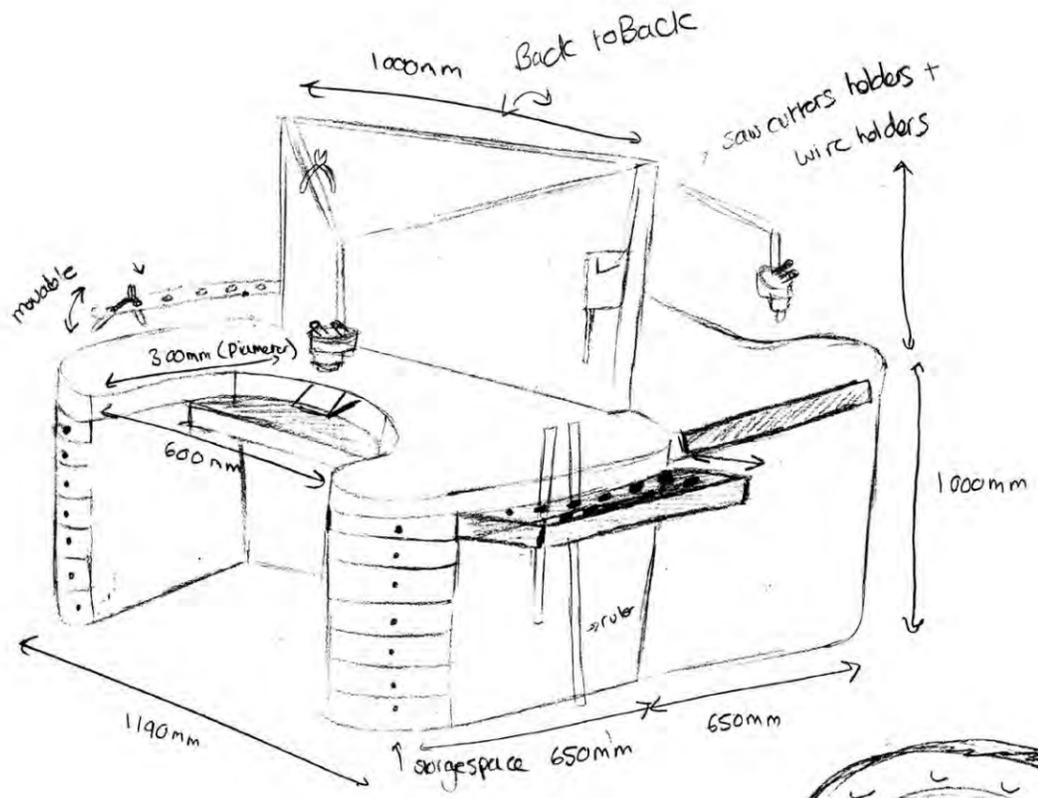
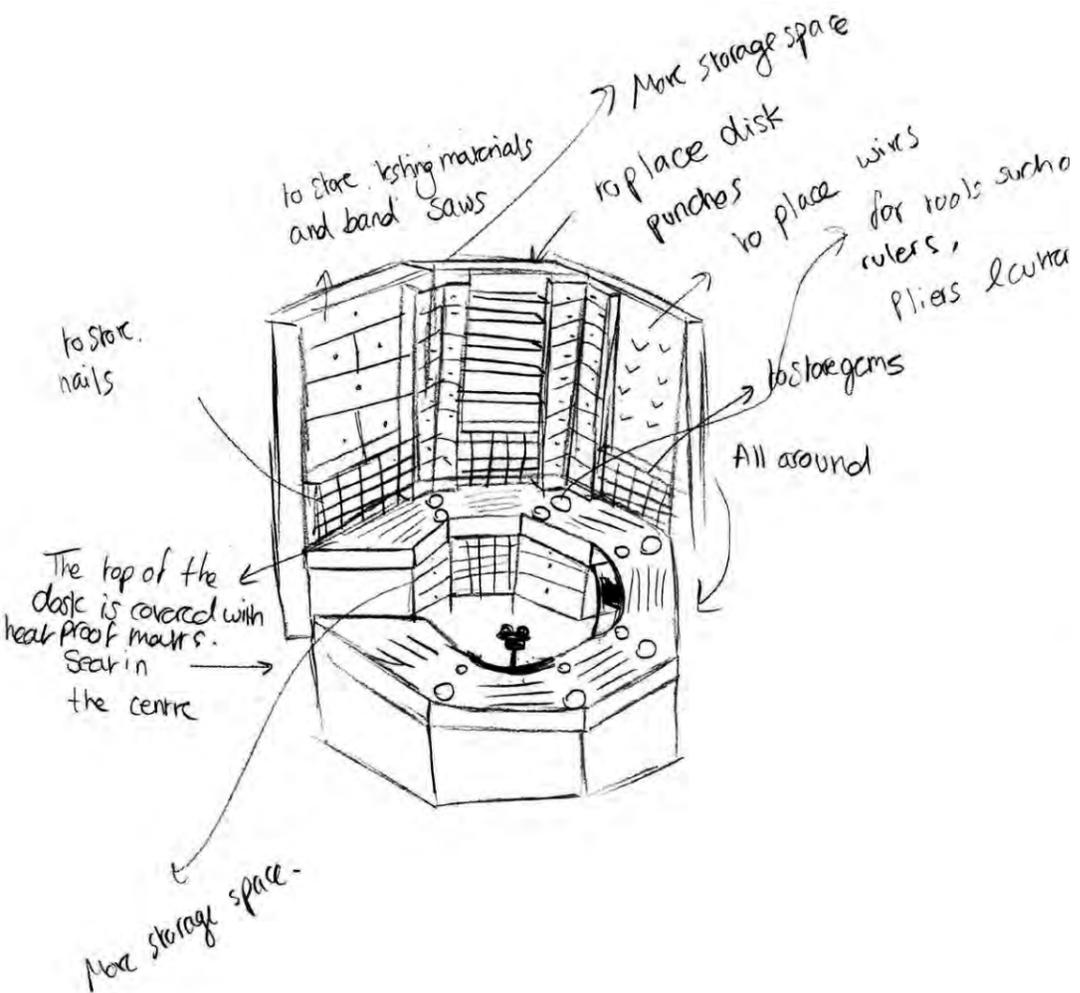


After seeing the amounts of storage spaces required to store/ display jewellery; I decided to look as ways to store them inside the walls to take minimum space and allows for more visitors.

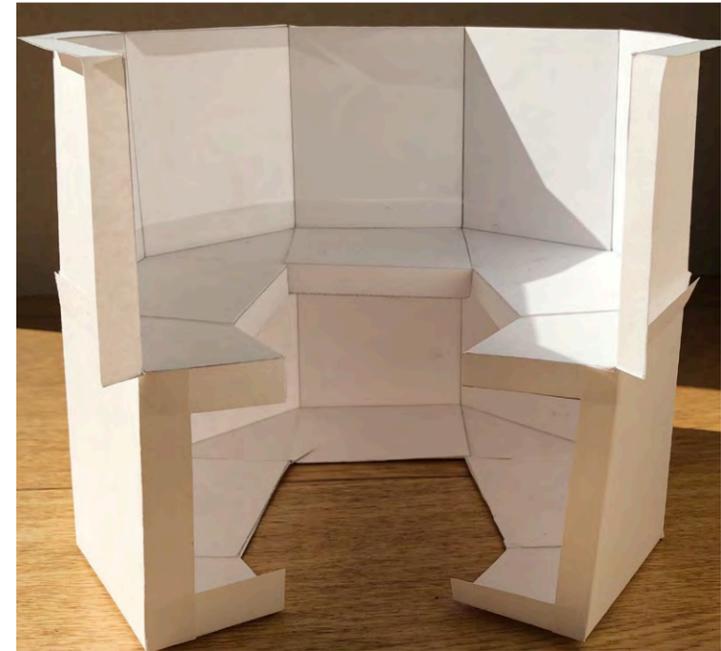
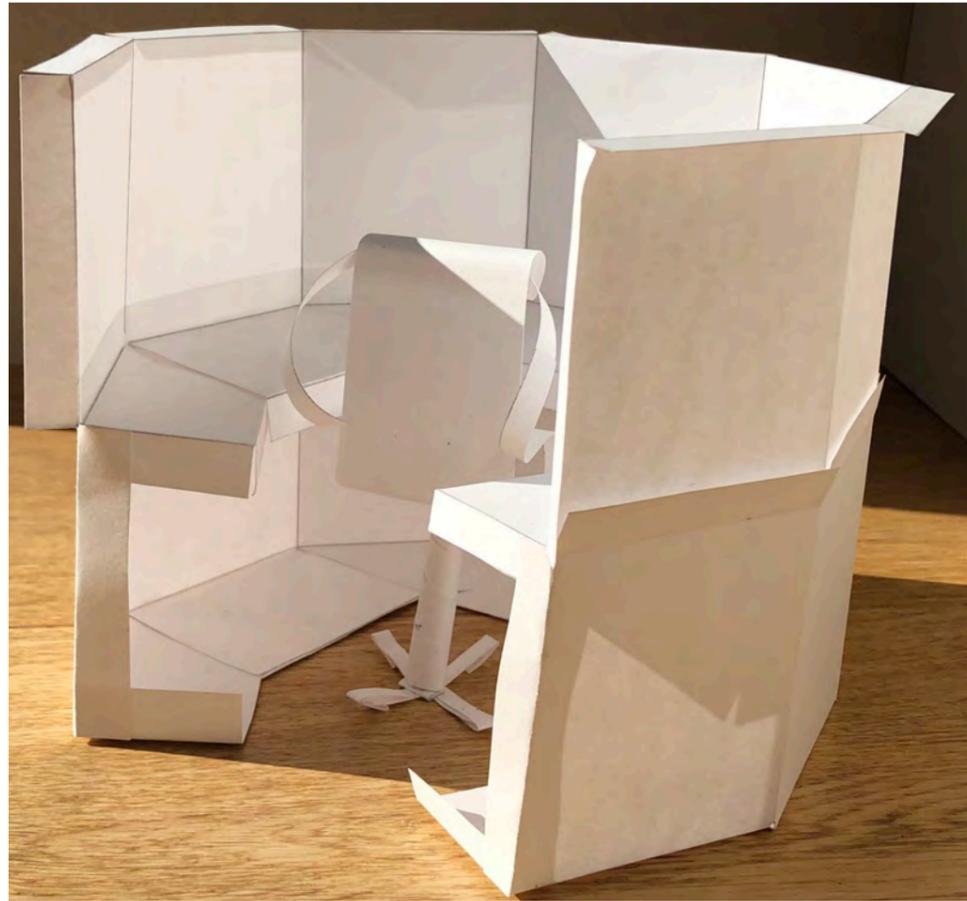
Storage

-Jewellers desk designs

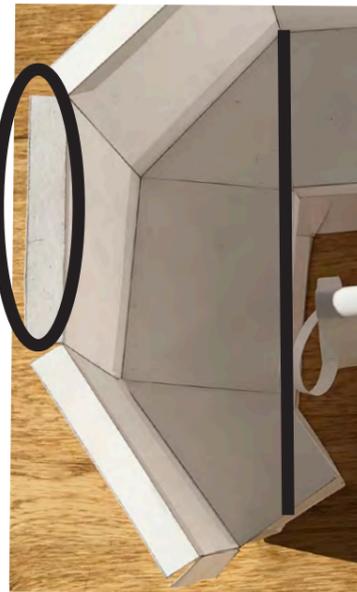
A jeweller's desk is viewed as a tool/ part of their making process. I also noticed from my workshop visit that a lot of space is required for storing tools and that it's important for tools to be close to the jeweller. Therefore, I've looked at ways I could design desks that have a lot of storage spaces/ are the most efficient in terms of movement for the jeweller. I also wanted to solve the issues that the desks I saw during my workshop visit had.



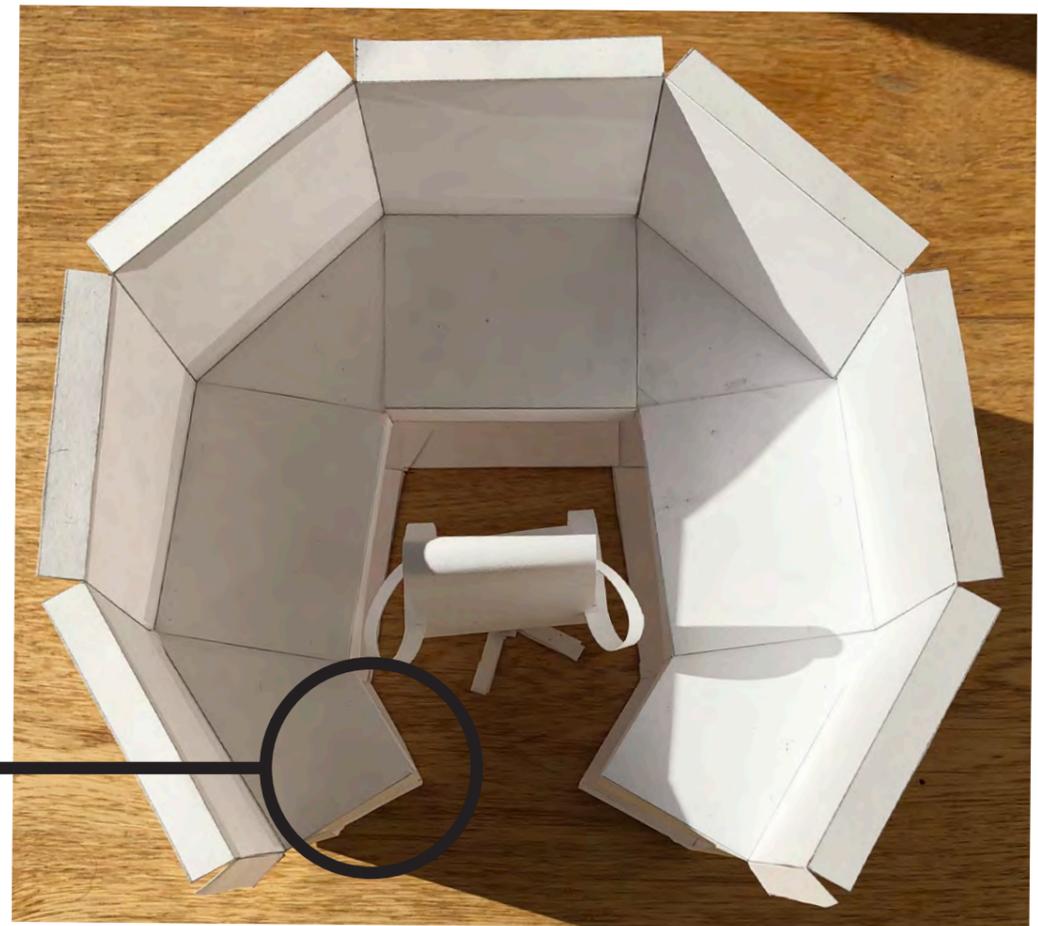
1:20 Model of Desk and chair design



These sides represent the thicknesses of the storage spaces. I also left an empty space under the desk to represent the spaces there. The desk maybe empty with the storage bottom spaces being separate parts where the jewellers can buy the spaces ,they prefer i.e. drawers or cupboard etc. This will make my design more flexible.



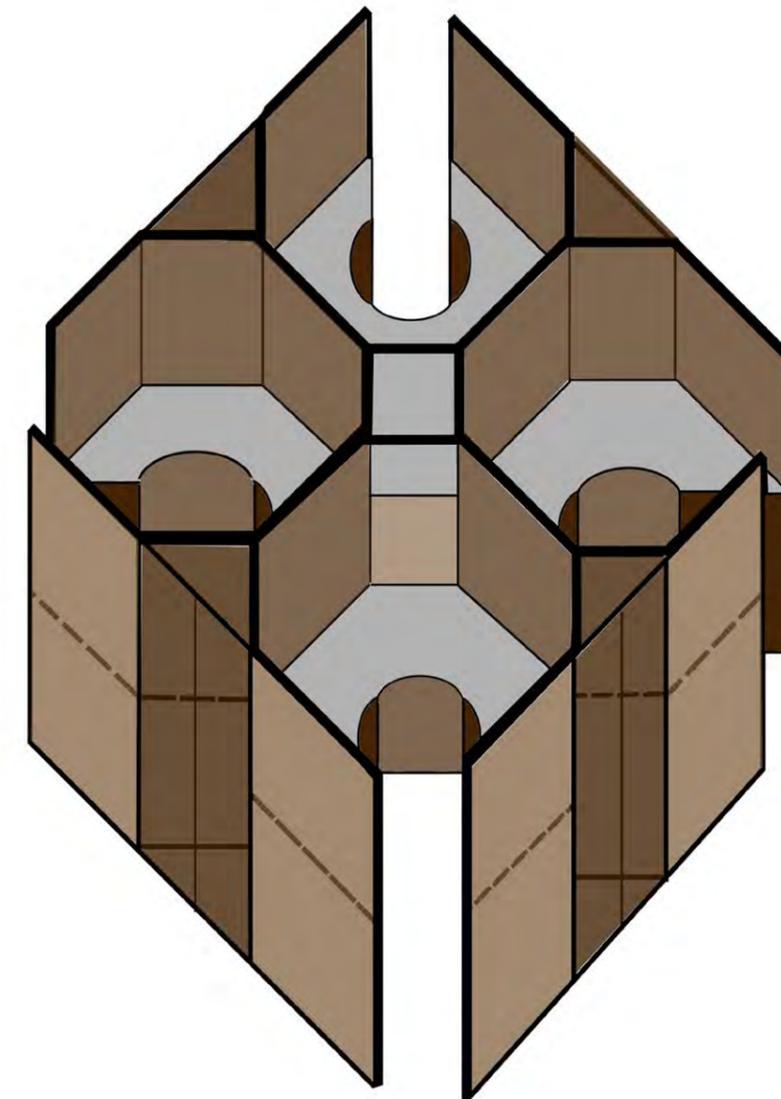
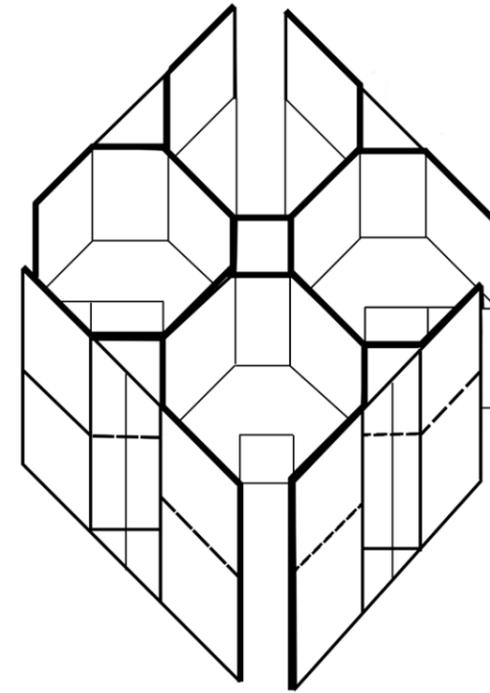
I've noticed that making the ends here curvy made the entering space really tiny therefore for my actual design I will make The ends straight to allow more entering space.



1 : 20



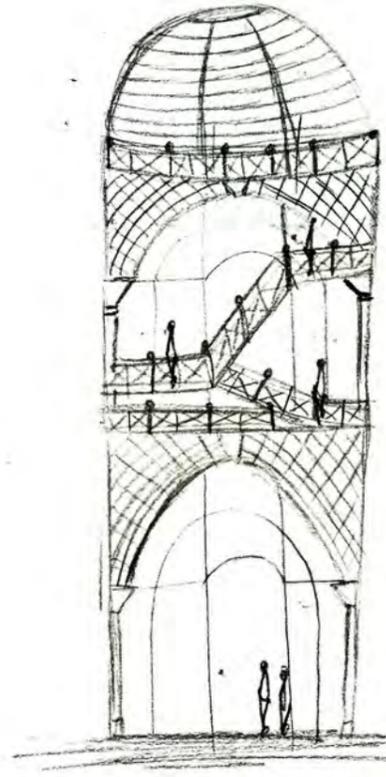
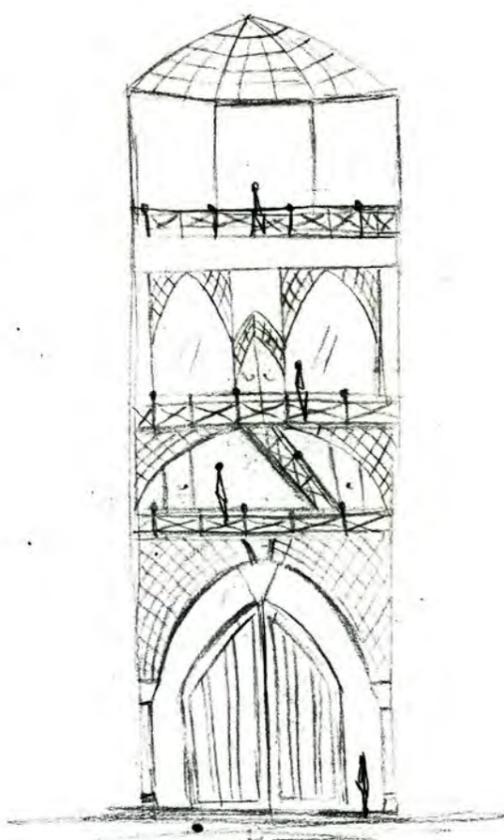
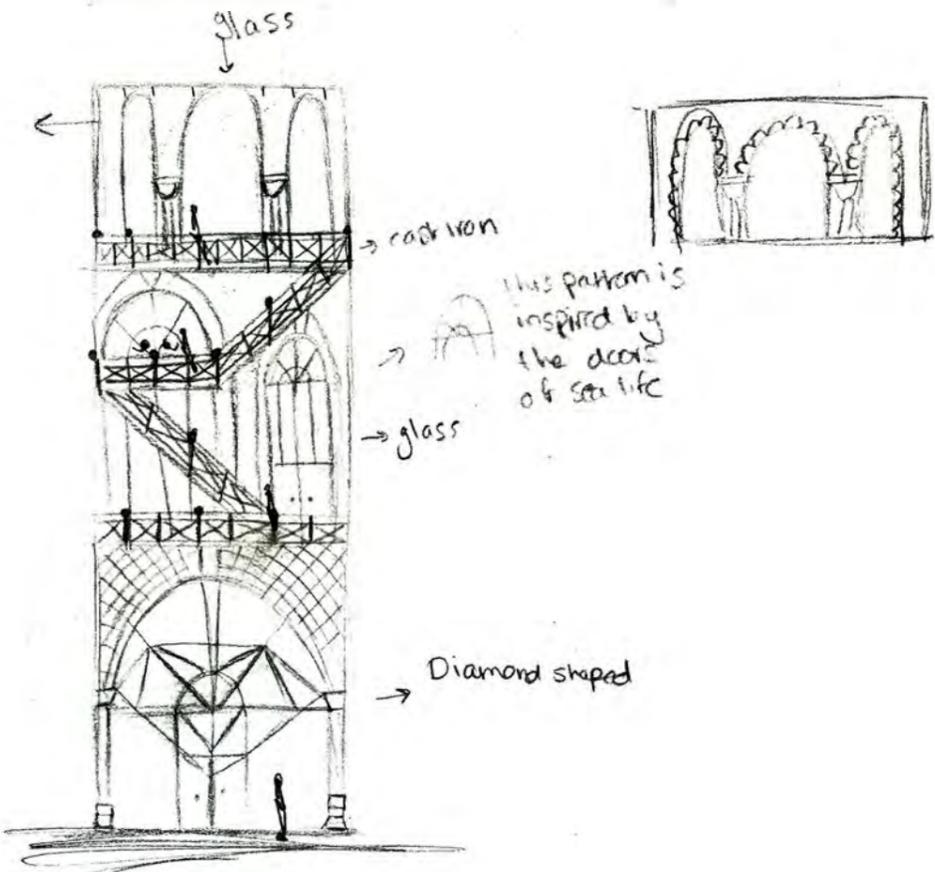
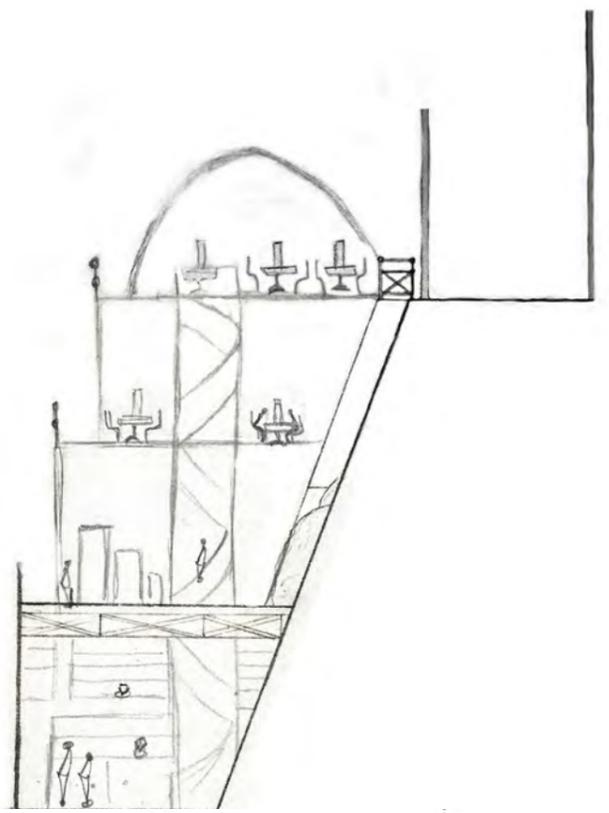
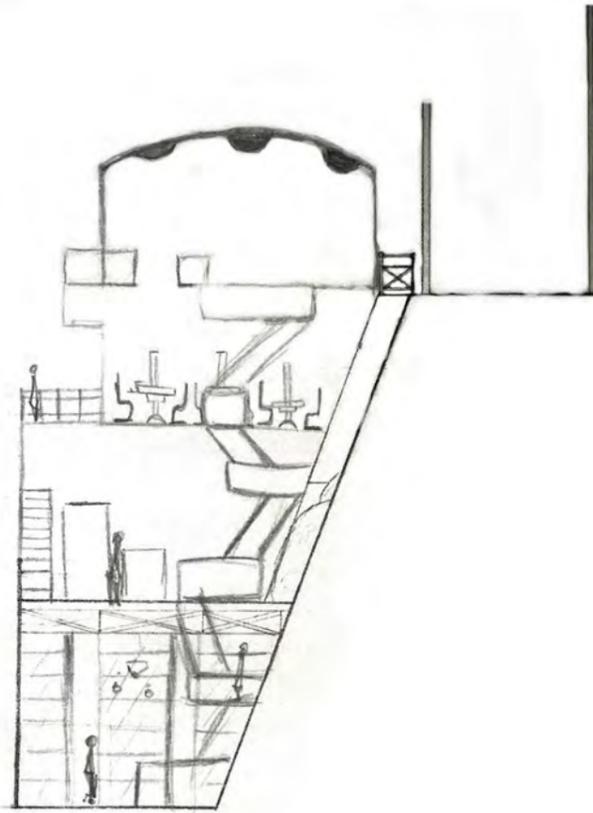
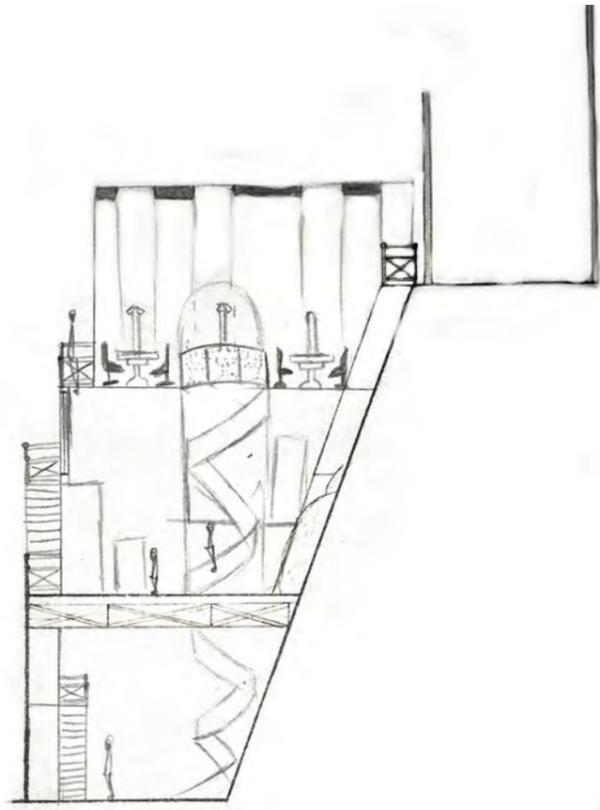
Desk axo @ 1:50 scale



-  Heat proof matt
-  Exterior of desk
-  Interior of desk/
Storage space
-  Lockers for items
of each worker
-  Tools holders
that are embedded
within the desk

The desk has three different sides where each one could be a desk for each different stage of making the jewels. The top of the desk is a heat proof matt to avoid damage to the desk and there are holders for tool embedded within the desk to avoid the messy look of having many sanity holders laying around. The design of the desk also blocks unwanted light from the sea facing windows; the design also has an opening in the centre so that the workers don't feel completely isolated from one another along with having the ability to pass any tools to others easily. Finally, each desk has a locker from the outside, this is for the workers to place their belongings in.

Initial Design Ideas



door design inspired by a door at the pavilion

Collage

-Design concept

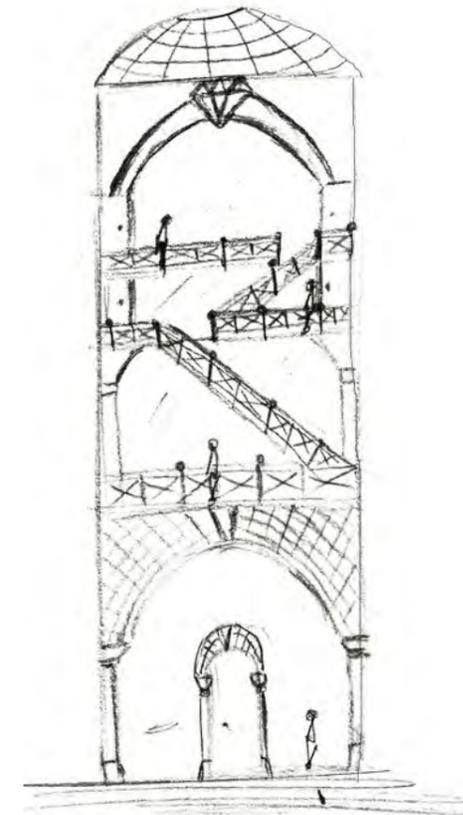
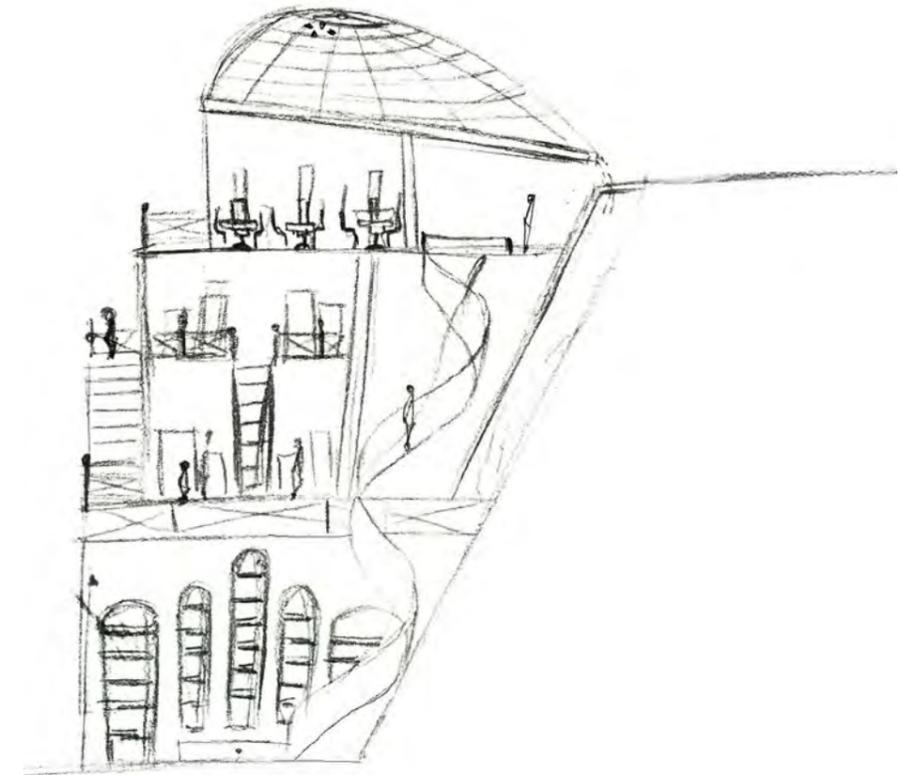
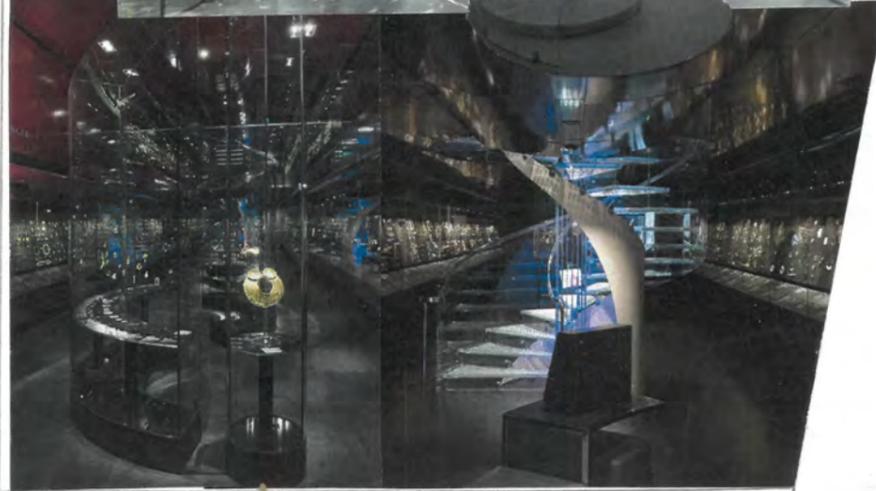
Investigating different dome ideas like the facade of the Arab world institute; to look at ways of controlling where light enters the workshop.



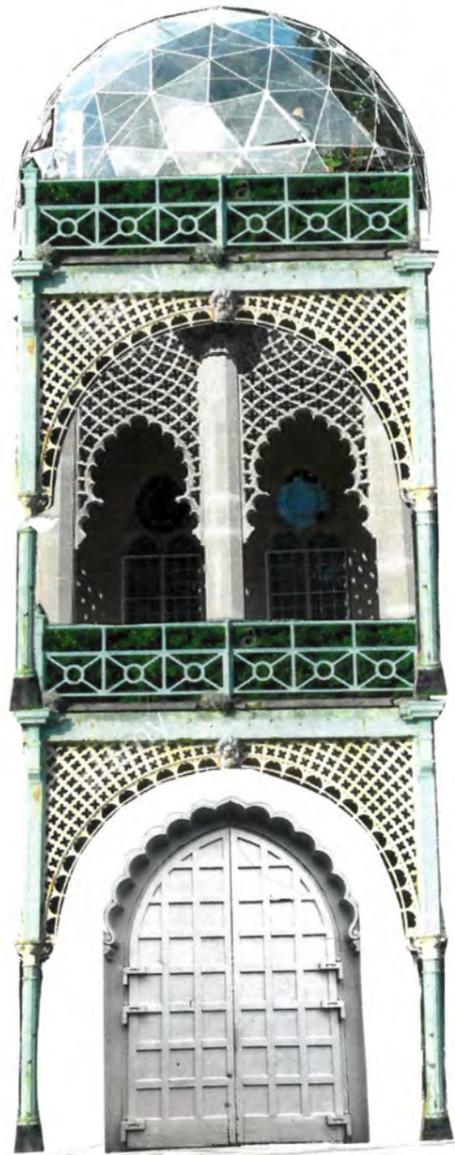
Looking at creating a greenhouse like room to show off the green wall. This floor will be for machineries as then the plants could refresh the toxic air that the machines produce.



Shop in ground floor as I wanted it to be dark, where the light would focus on the jewellery.



Collage
-Design concept



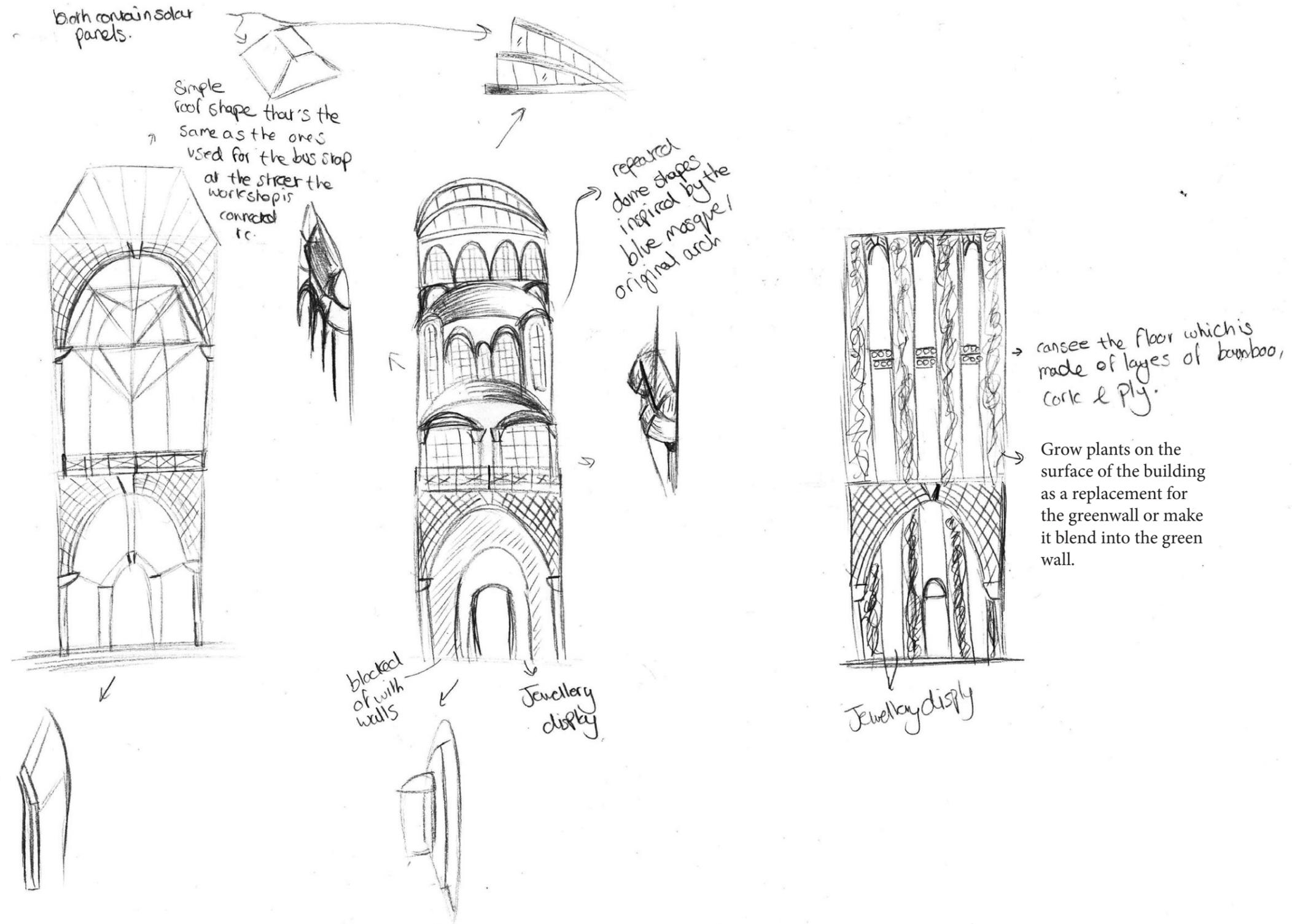
I've noticed that the pattern on my arch was the same as the one embedded into the Royal pavilion. Therefore, I decided to look into the types of designs I can produce by using elements from the pavilion and embed them with my arch.

Design Concepts

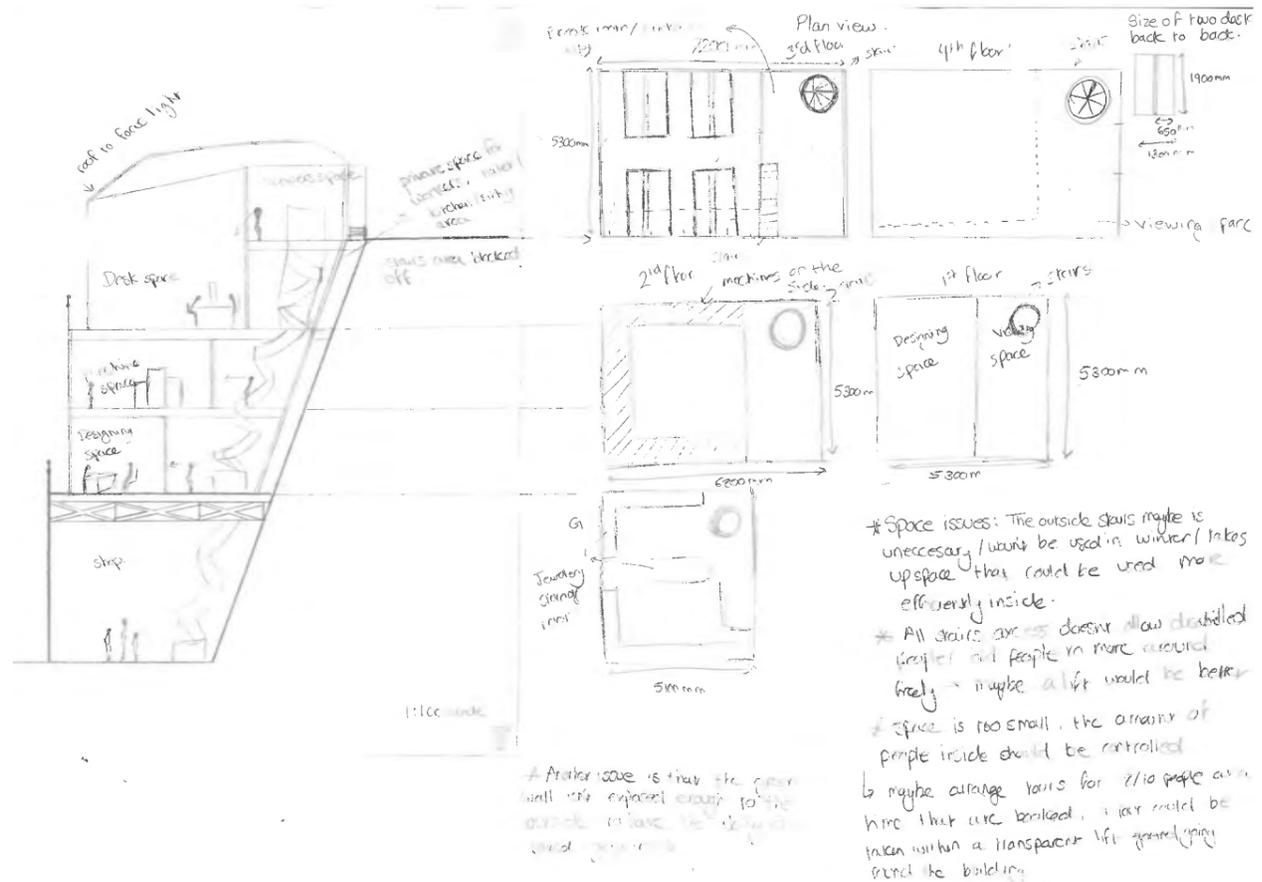
Modern

Byzantine

Organic



Plans development

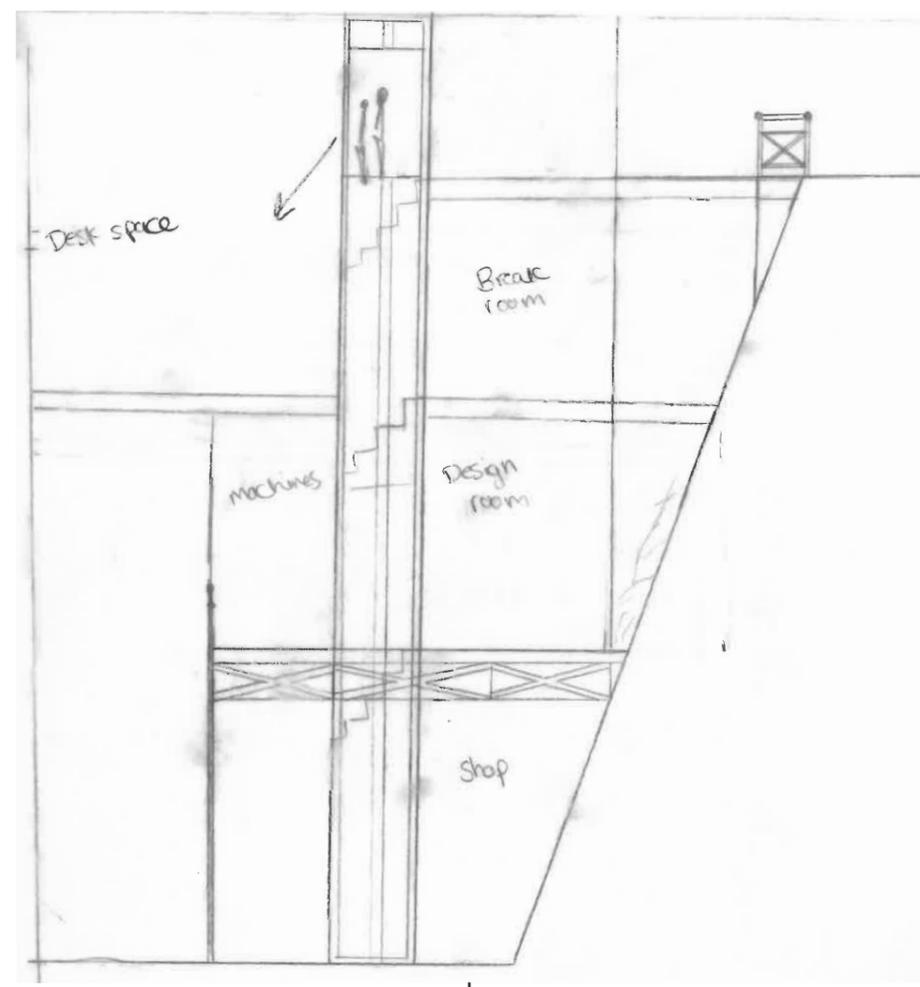


* Space issues: The outside stairs maybe is unnecessary / won't be used in winter / takes up space that could be used more efficiently inside.

* All stairs access doesn't allow disabled people and people in more around freely -> maybe a lift would be better.

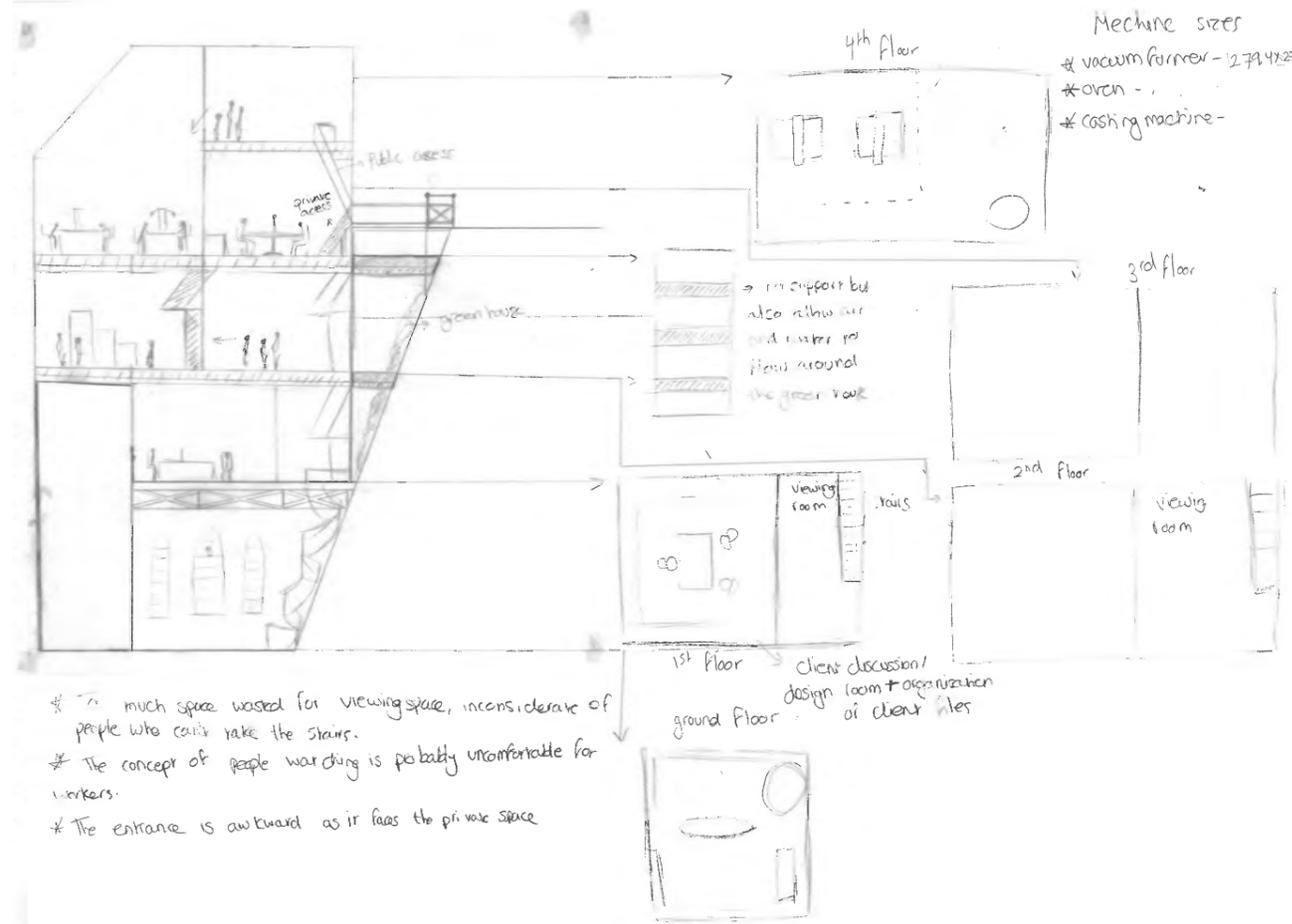
* Space is too small, the amount of people inside should be controlled.

↳ maybe arrange rails for 2/10 people a time that are blocked, a car could be taken within a transparent lift frame going around the building.



This is the main Idea I decided to go for where I'm either going to have a greenhouse round the plants or just leave them alone; I'll also be extending the second and fourth floor by 3 meters to provide more space.

I will have a lift surrounded with glass for people to see the stages of making the jewellery as they move around the building. The stairs are for workers only but can be used by the public in case of an emergency. I will be placing a dome at the top also.



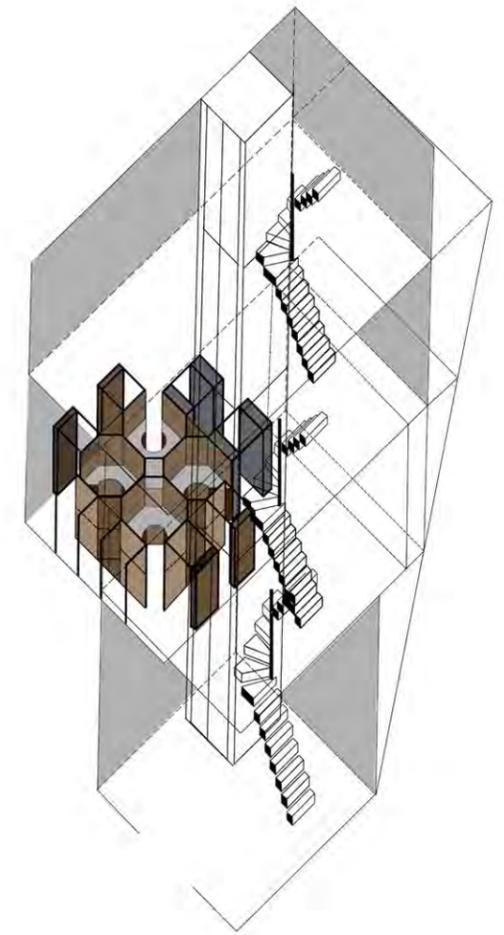
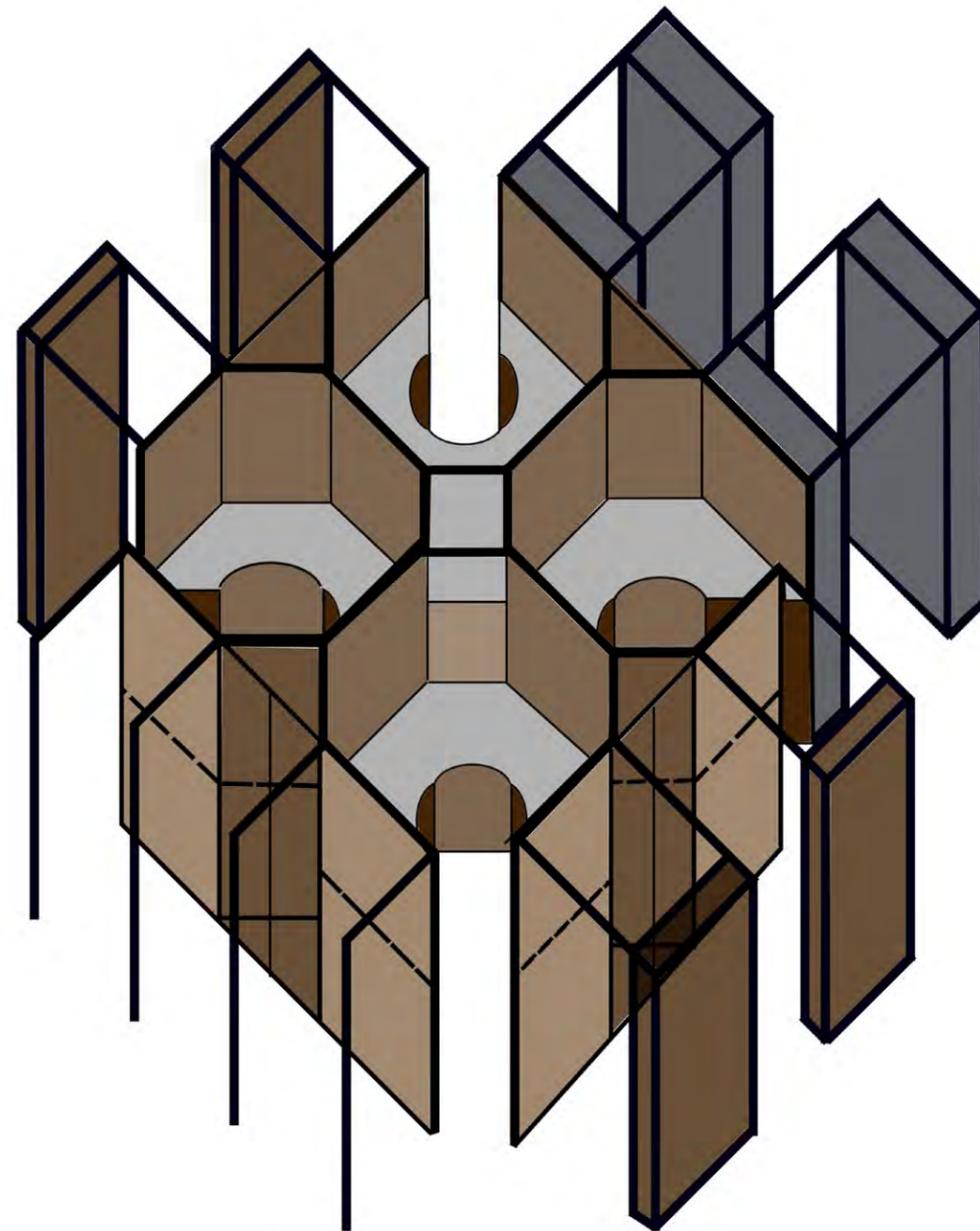
* Too much space wasted for viewing space, inconsiderate of people who can't take the stairs.

* The concept of people watching is probably uncomfortable for workers.

* The entrance is awkward as it faces the private space.



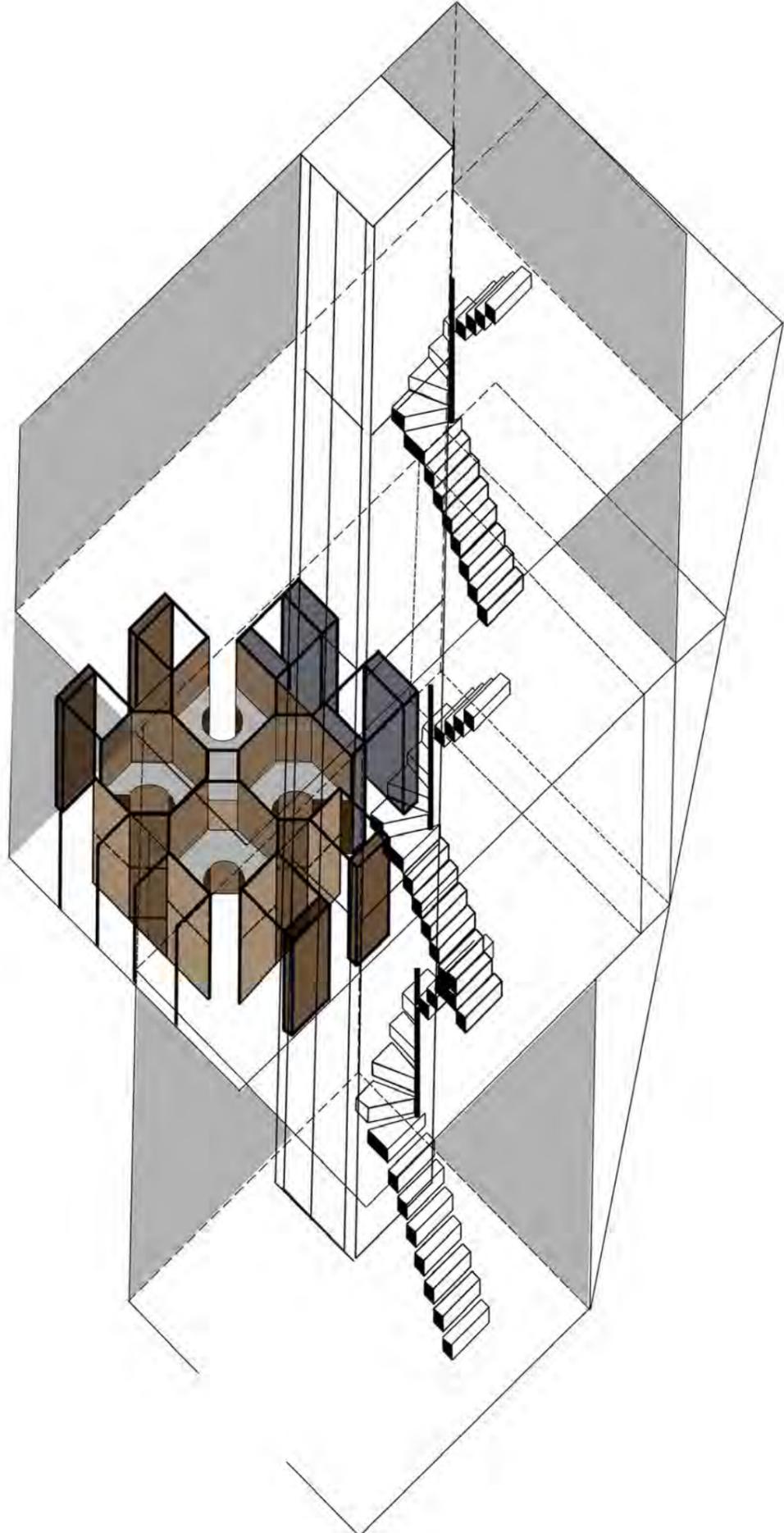
Desk as an element of the building



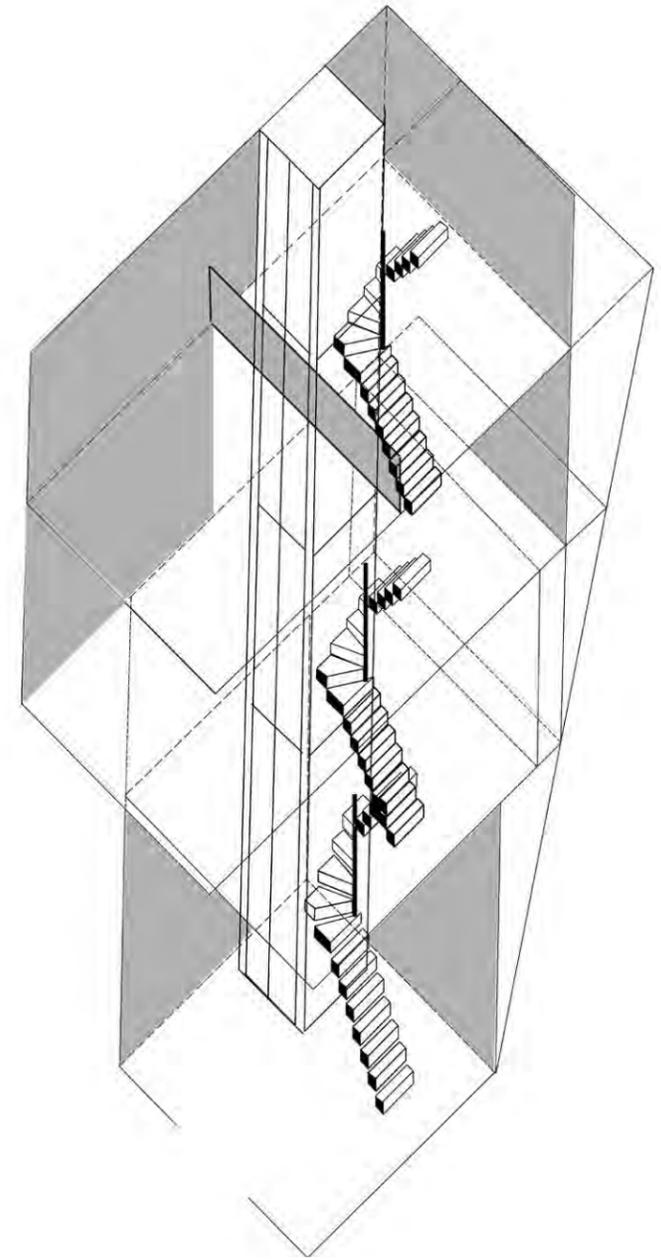
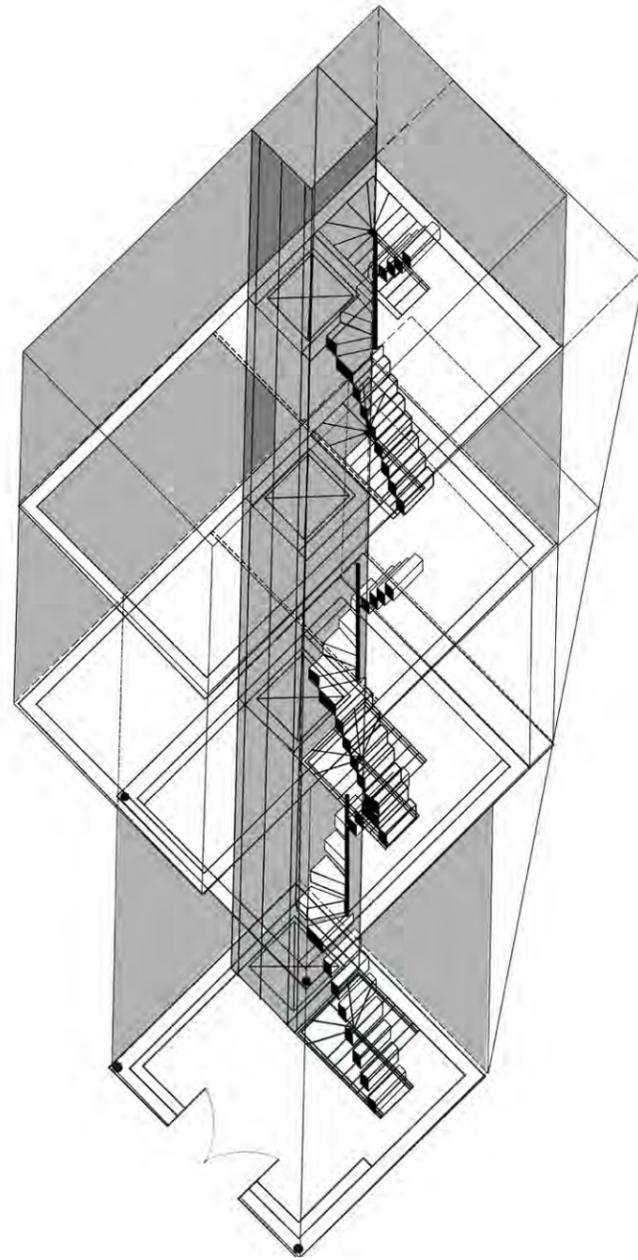
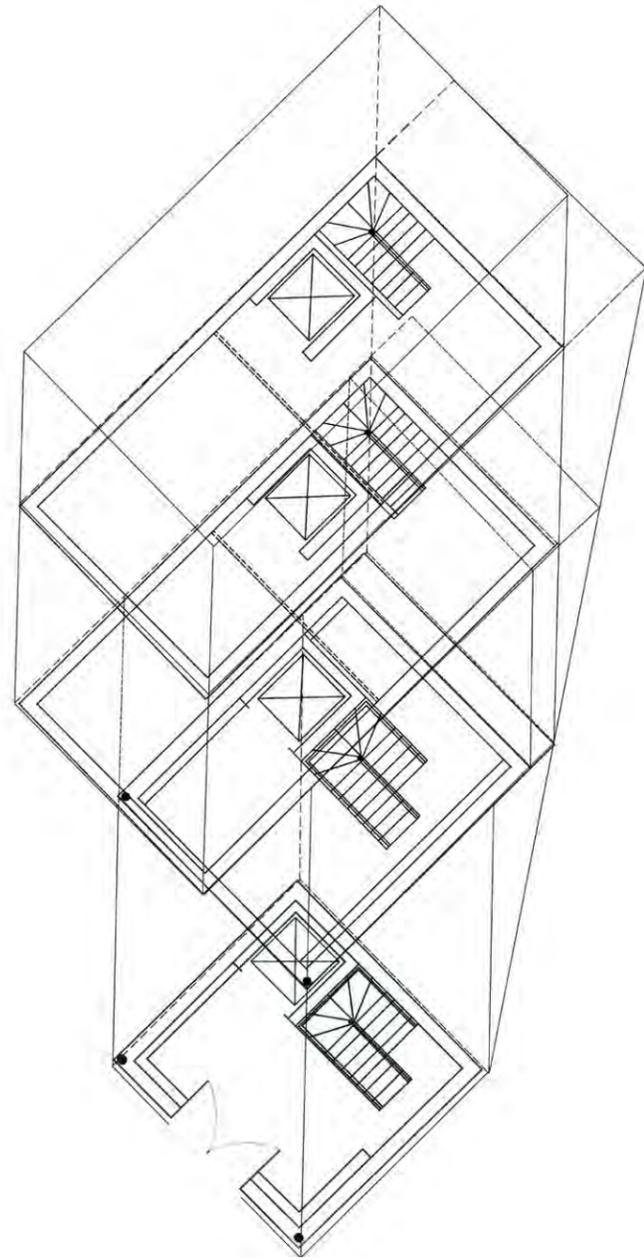
-  Jewellery making mechnes
-  Heat proof matt
-  Exterior of desk
-  Interior of desk/ Storge space
-  Lockers for items of each worker

Originally my desk design was meant to be 1500mm however after deciding to extend the storage and machinery from it I decided to make it 2000mm hence why It looks longer than it does in the model of it that I made.

Jewellers desk as part of the architecture



Transportation around the building axo in the working.

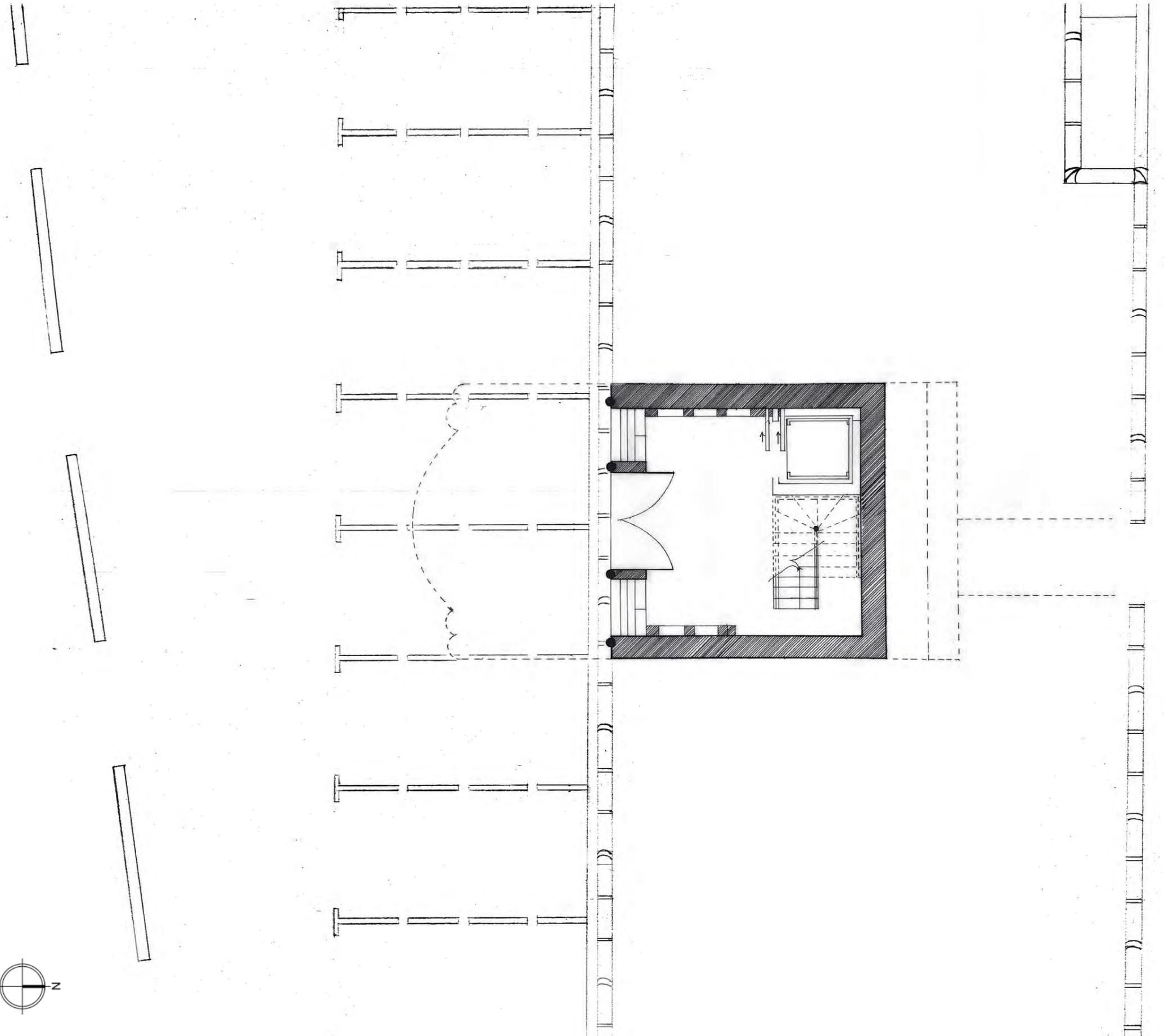


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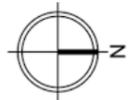
Proposal plans

Ground Floor

- Shop
- Main entrance from the bottom of the green wall, i.e the arch.
- facing the sea
- Public



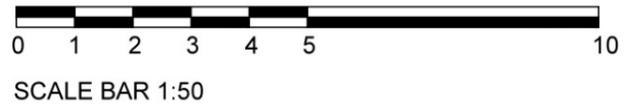
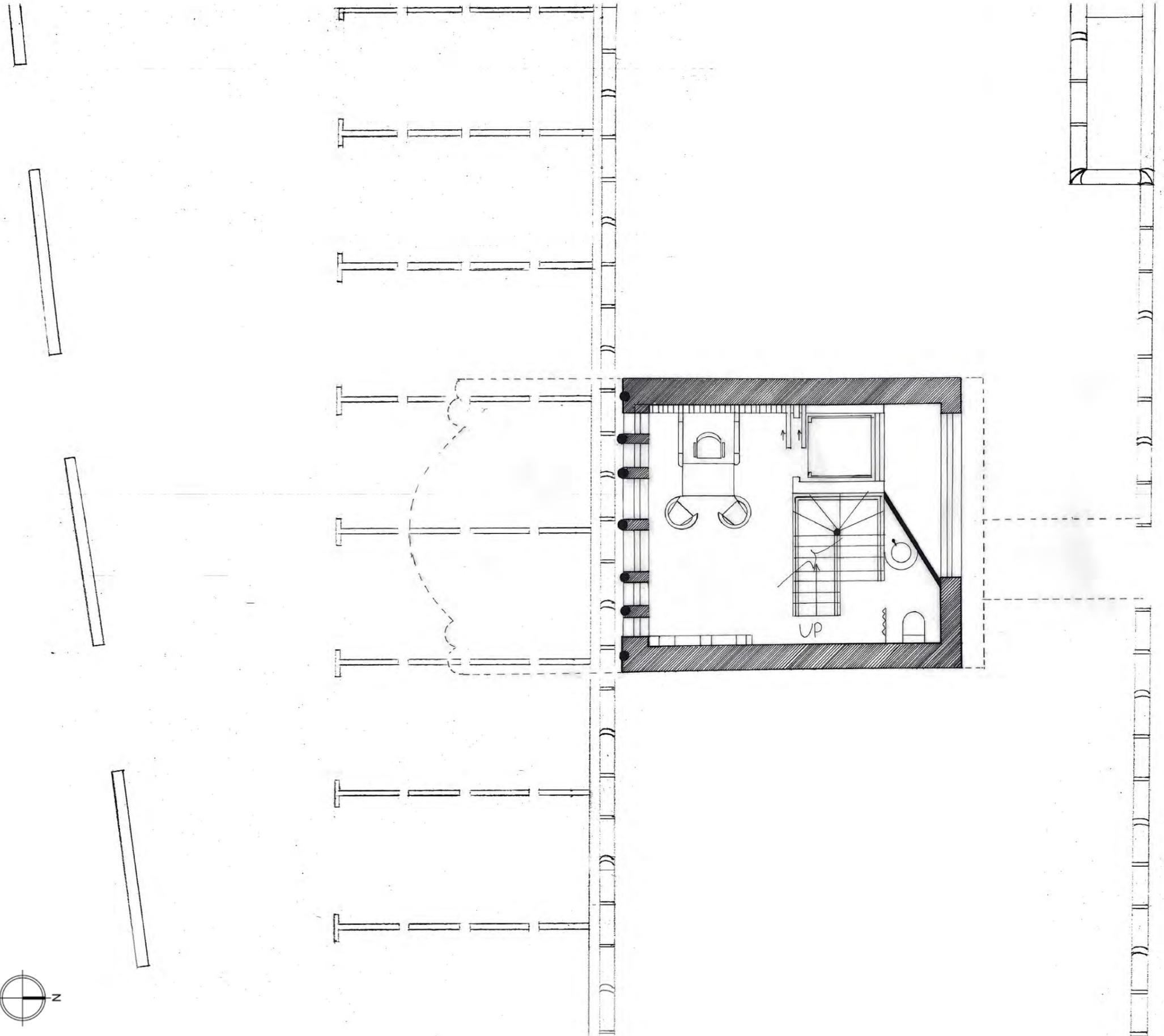
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Proposal plans

First floor

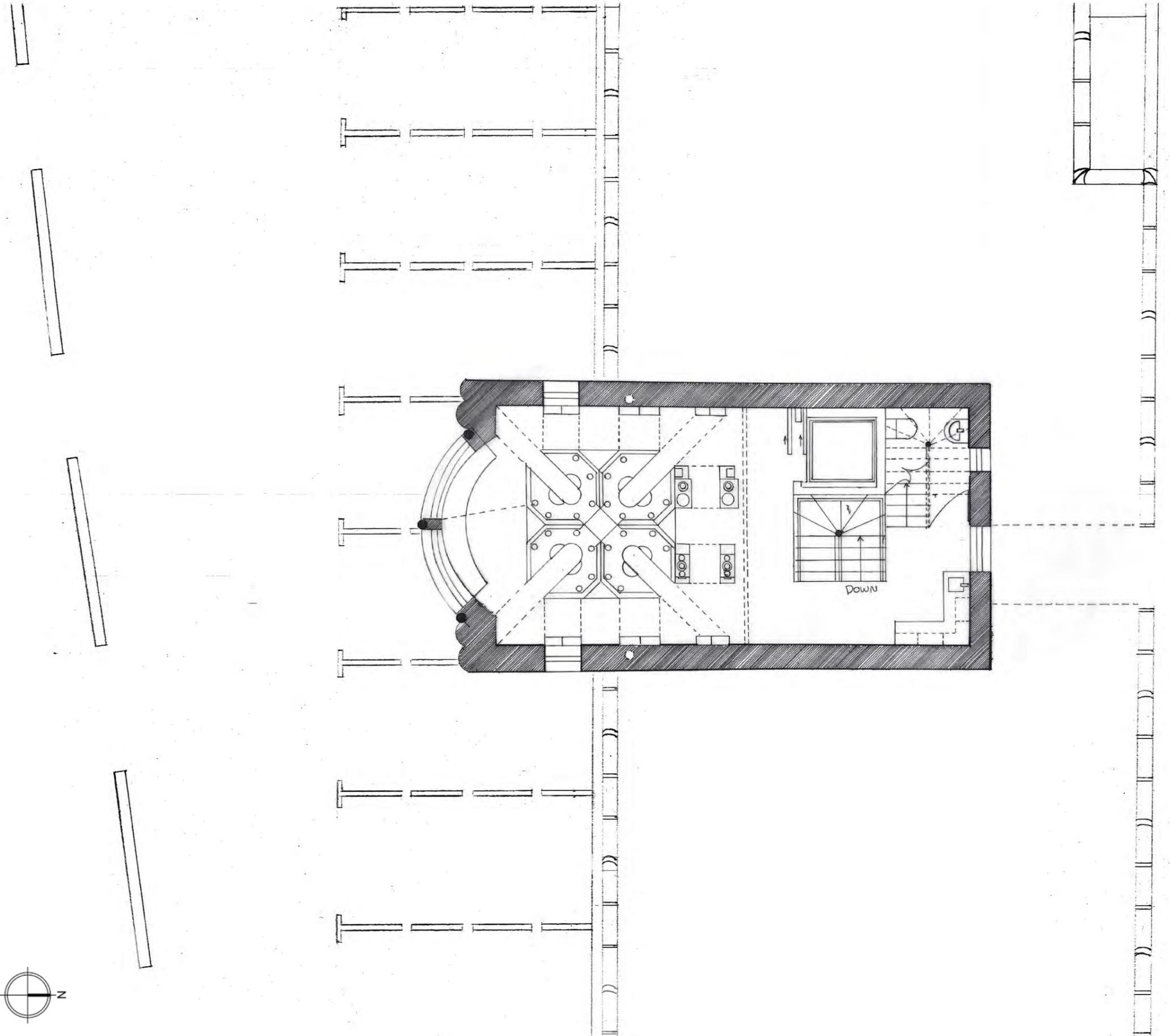
- Client designing room
- Private; clients only.
- After designing desks and storage spaces, I decided to treat the furniture in my workshop as part of my building were everything merges from the walls and the ground, and connects at the top to form a pattern inspired by Islamic patterns



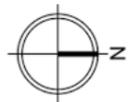
Design Proposal plans

Second Floor

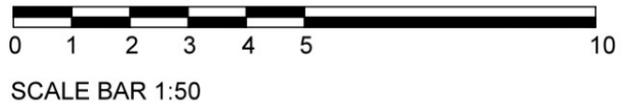
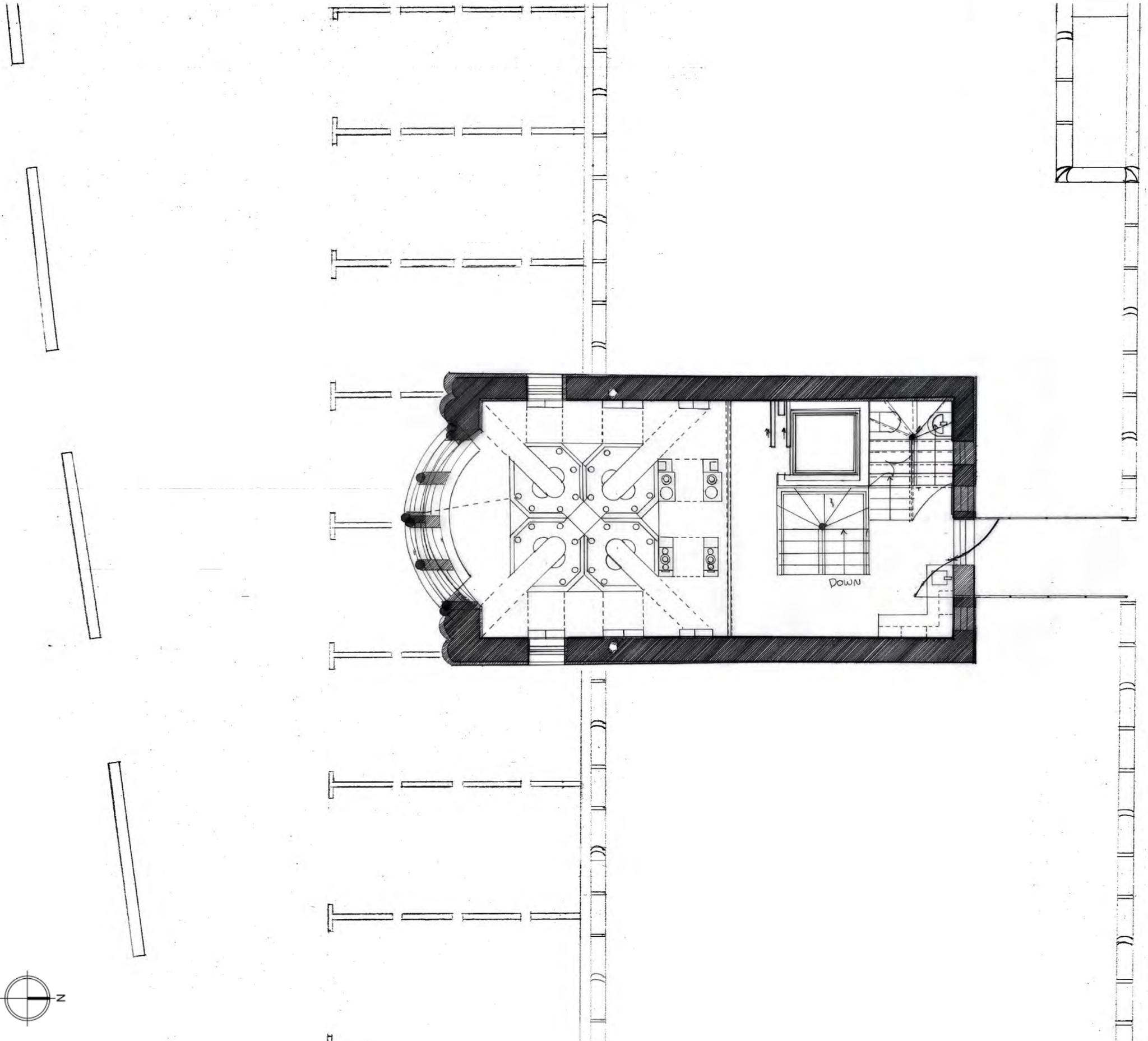
- Workshop/Break room
- Private
- Can be viewed from the third floor and as people pass by it in the lift which has wide windows.
- Safes for extra materials/ keeping jewellery are embedded into the walls and are connected to the desks.
- under the window there's a long couch as the break area and the kitchen area is in the far-right corner of the room.



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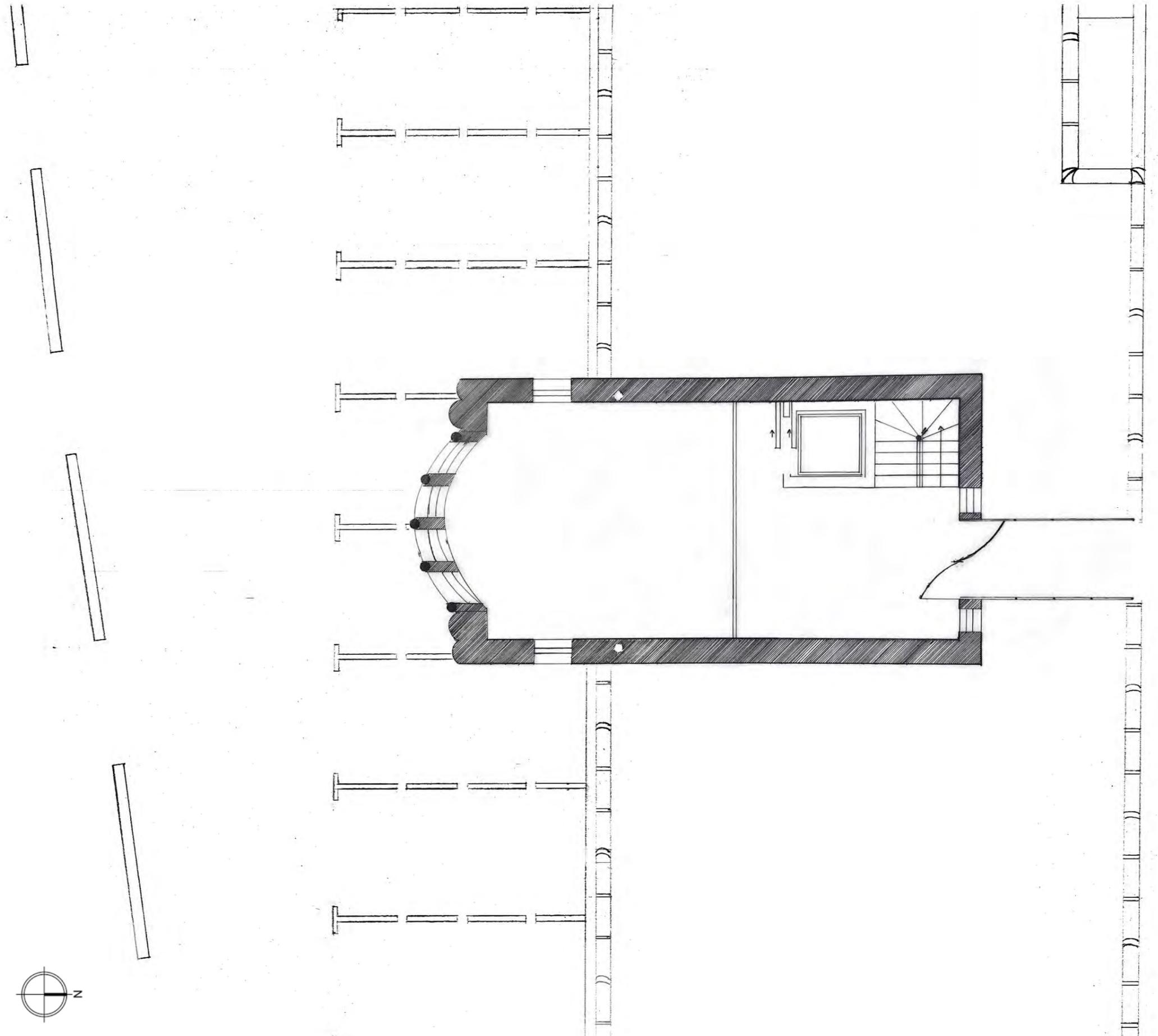
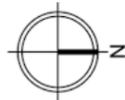
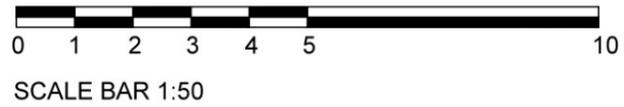
Design Proposal plans
- View of second floor from the
third floor



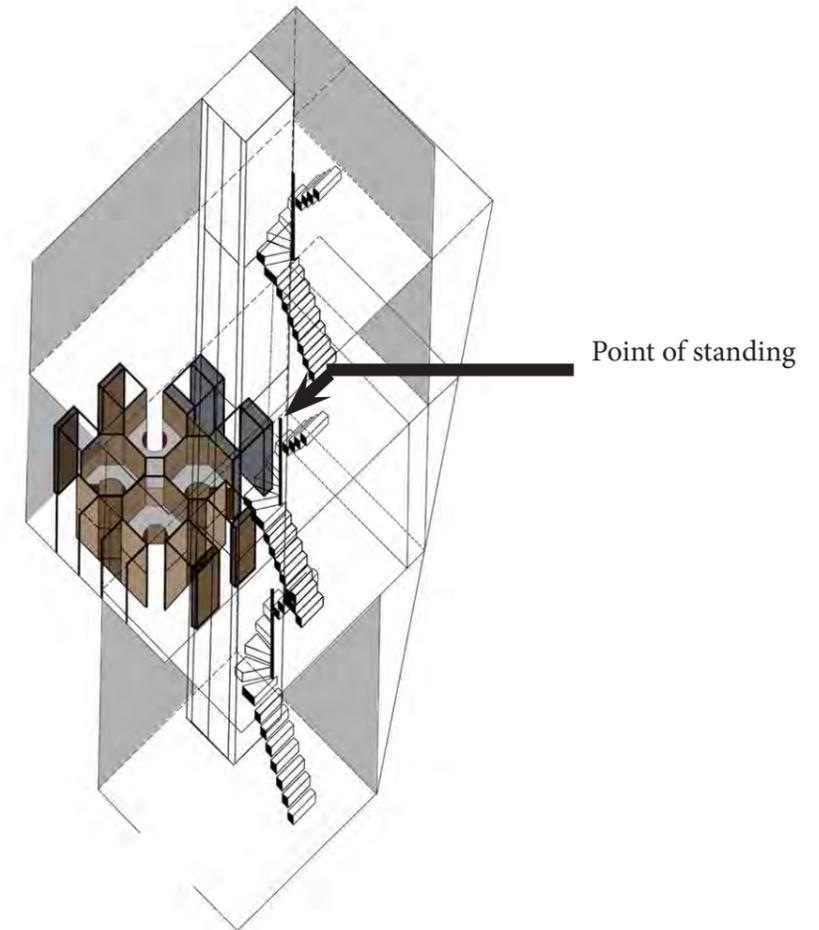
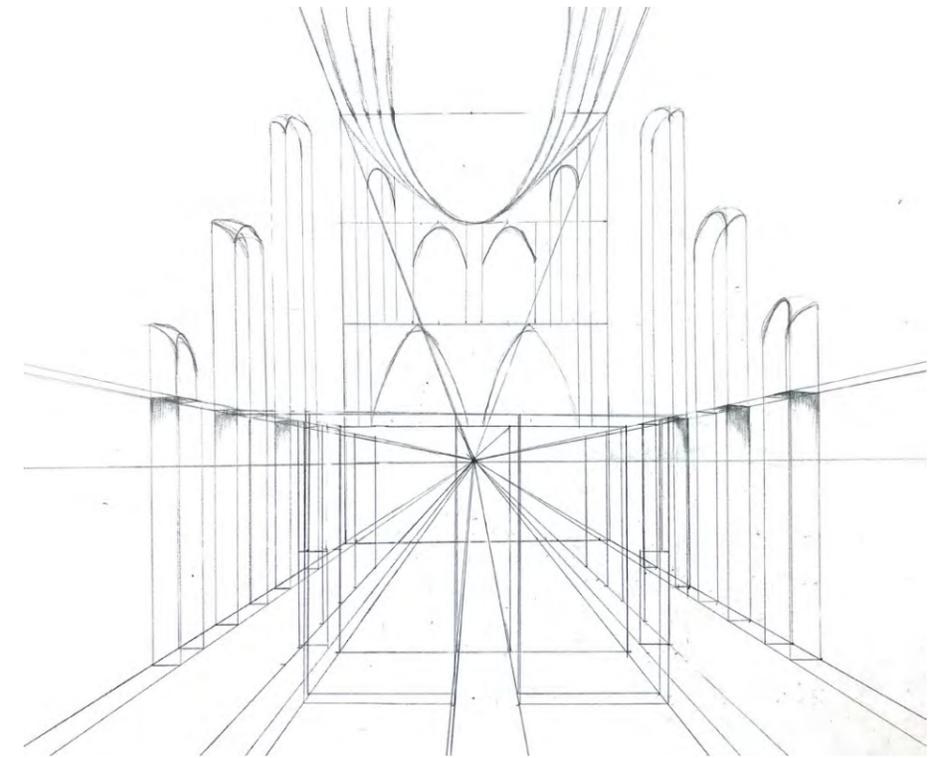
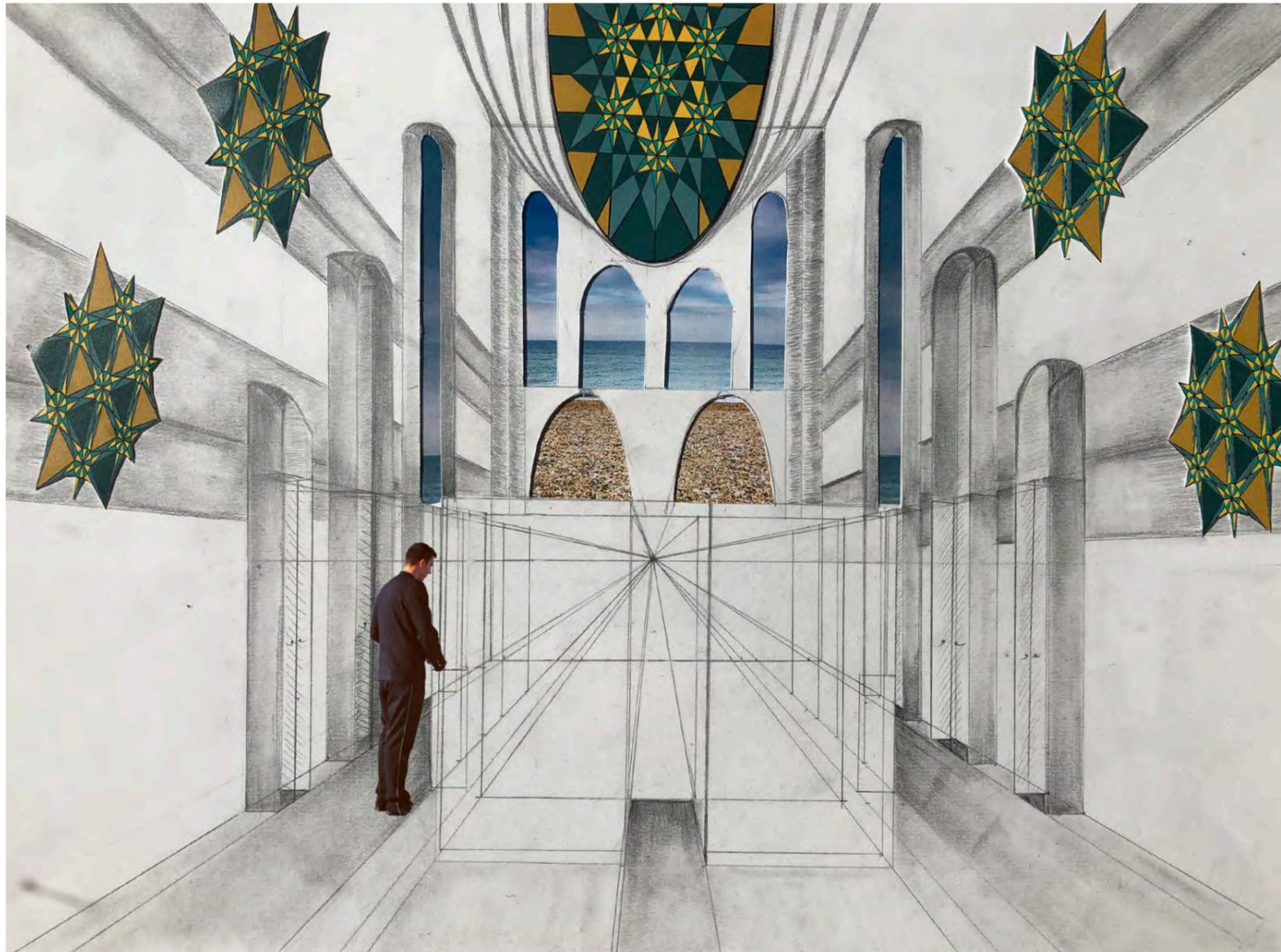
Design Proposal plans

Third floor

- Entrance from the top of the wall, I.e. facing main road.
- viewing room
- Public



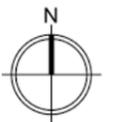
Perspective drawing of workshop desks area



Jewellery shop perspective

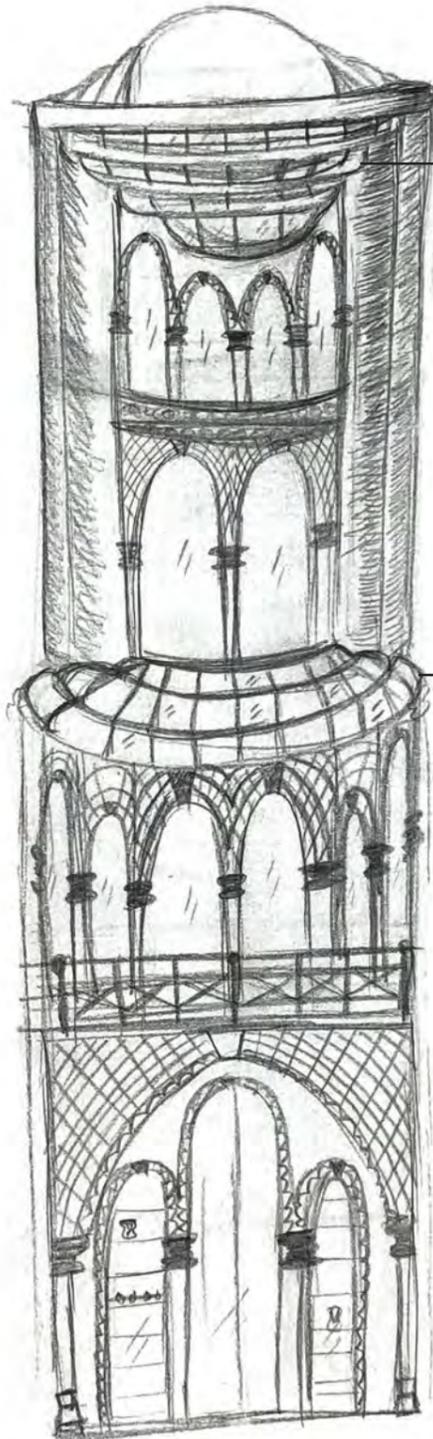


The dark areas on the main facade and the ceiling would have the pattern that I've designed engraved onto them



Workshop Exterior Design Sketch

View facing the sea



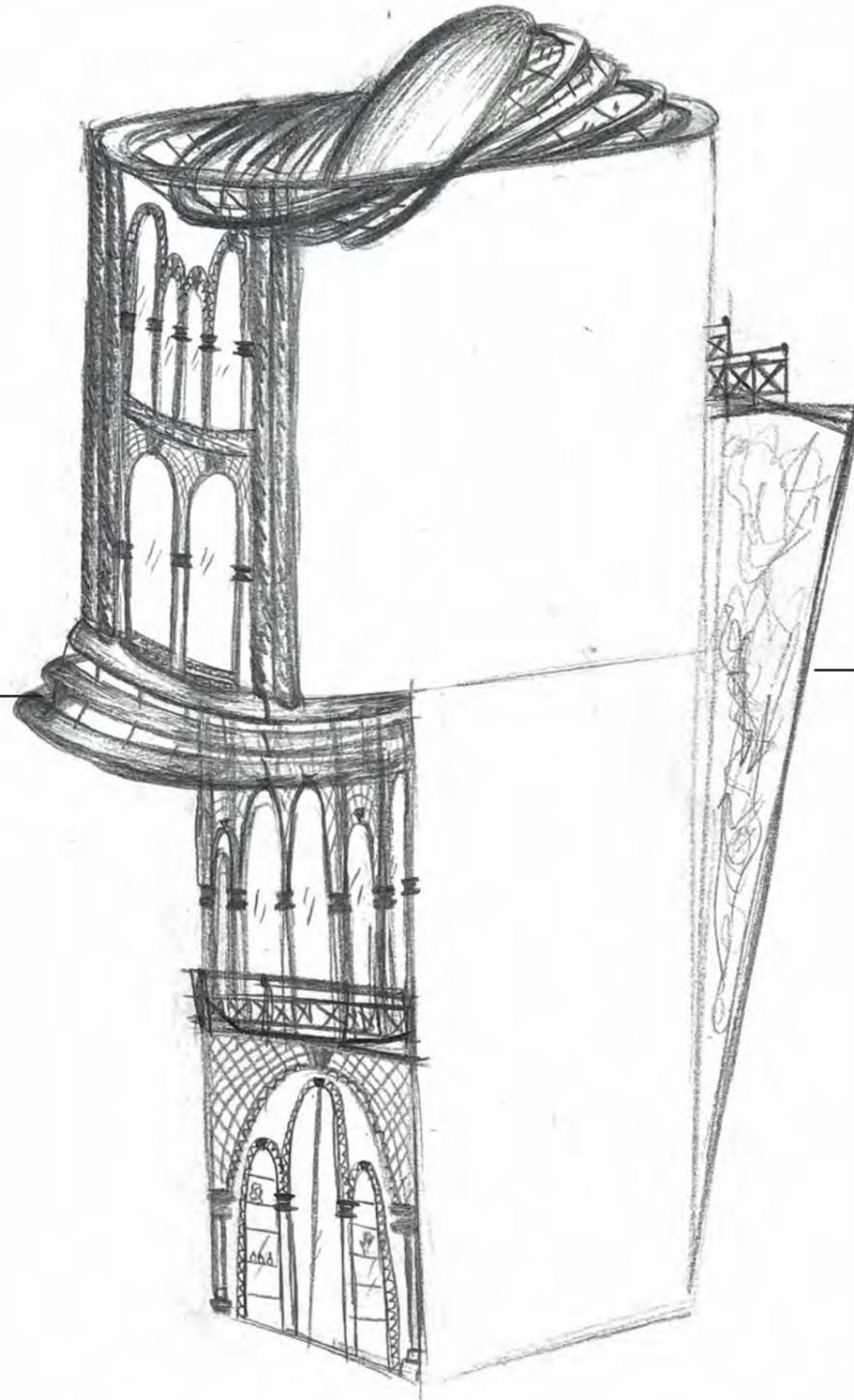
Glass will be placed on the area that shows the dome from the inside.

This is another mini version of the dome.

View from The top of the green wall facing the main road



A screen that gives a taste of the inside of the workshop to attract crowds into the workshop.

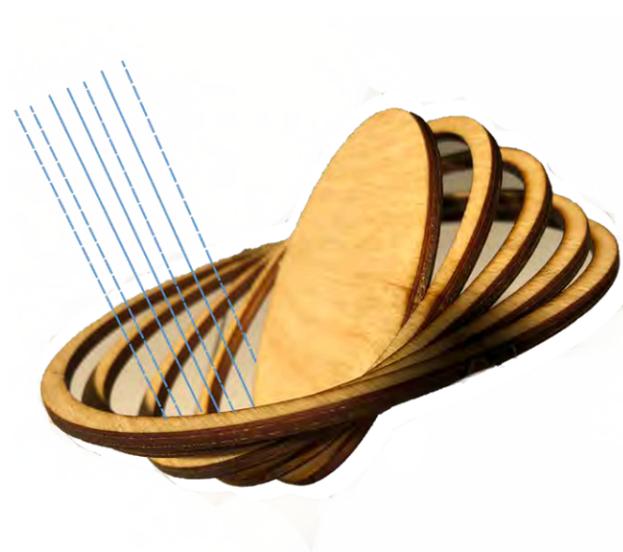
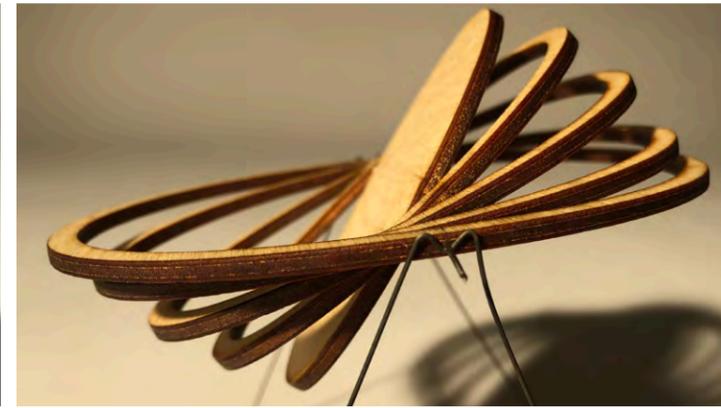
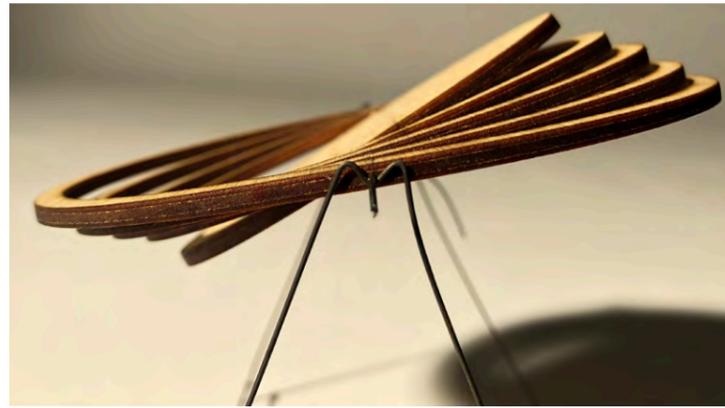
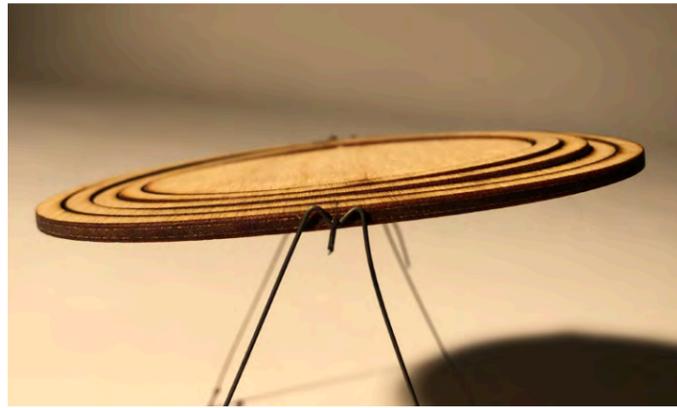


Originally, I was going to place a greenhouse round the green wall to save it. However, I realised that it will still have access to water from my dome; and air, I also made as many windows as I could to allow sun light to reach the plants plus the sun they'd have from the sun rise and set therefore It wouldn't need a greenhouse.

This design is inspired by byzantine architecture, where I used repetitions of the same arch but with different sizes to empathise being part of the madeira drive and making my design fit in within the area it's placed in. I also added a modern inventive dome that I've designed to add a touch of modernity to form a bridge between the past and the present in my design. This concept of combining past and present is inspired by Aldo Rossi's approach to architecture.

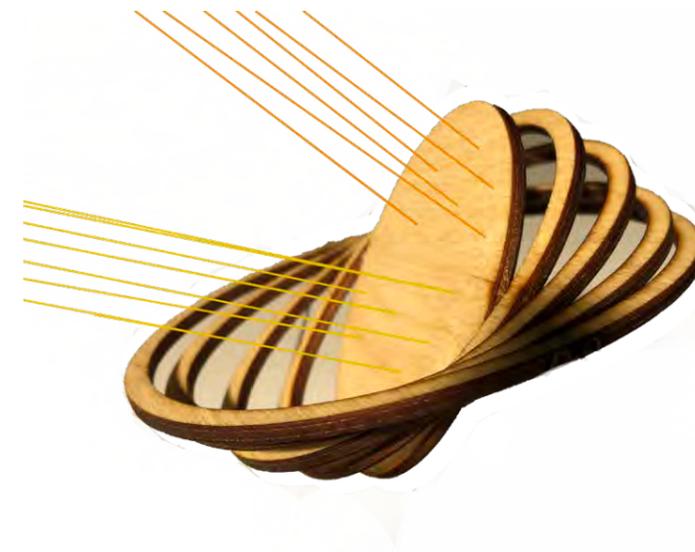
Off grid Self sufficiency

-Multi functional Dome



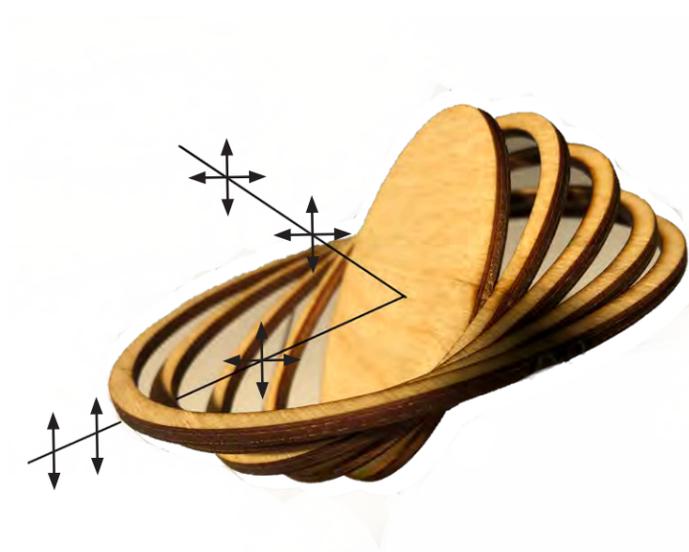
Water storing

The rotation of the dome forms a dip which will be used to hold water from the rain. I will use the water to power a hydraulic pump which will power my lift. This is the same method that was used to power the lift on site by Concorde 2. This could also be used to redirect water to the green wall.



Solar cells

The large solid elliptical center will be covered or formed from Poly-crystalline silicon solar cells which are 17% efficiency and reasonably priced. The angle of the dome can also be adjusted based on the angle that the sunrays are coming from. The gaps will be covered with glass which in the areas facing the sun, will have solar cells embedded within, or perhaps have transparent solar cells embedded into glass and place them in all of the gaps.



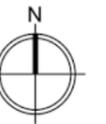
Polarization

The Centre of the dome can be used to reflect light into the building and in the dip you'll see that the lines look like polarized glasses, therefore, this feature, when used at the correct angle, will be able to allow the right amount of sun into the building whilst blocking glare.

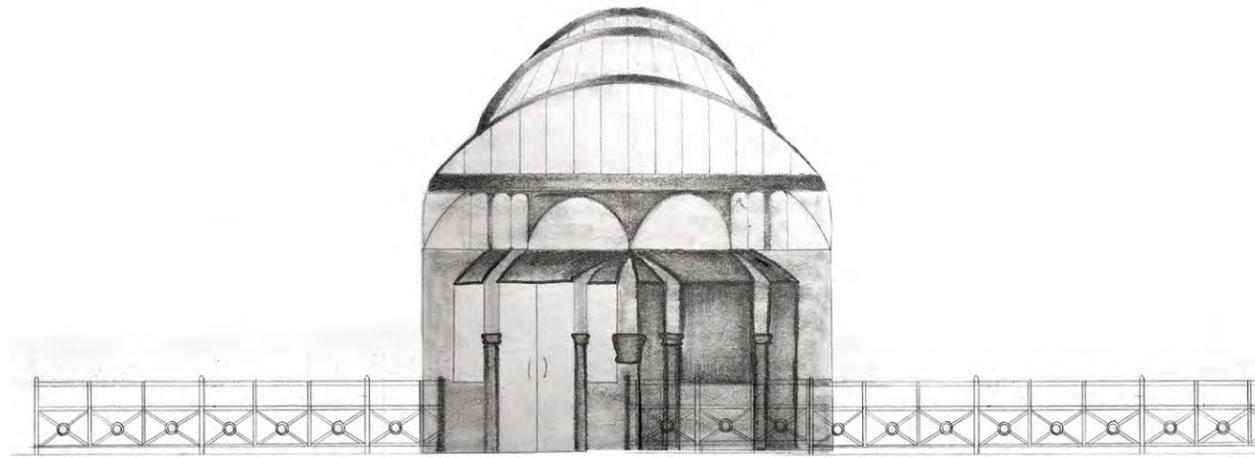
Final model elevation



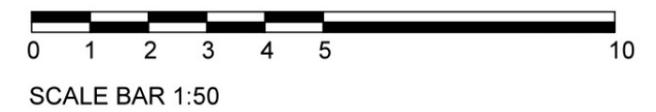
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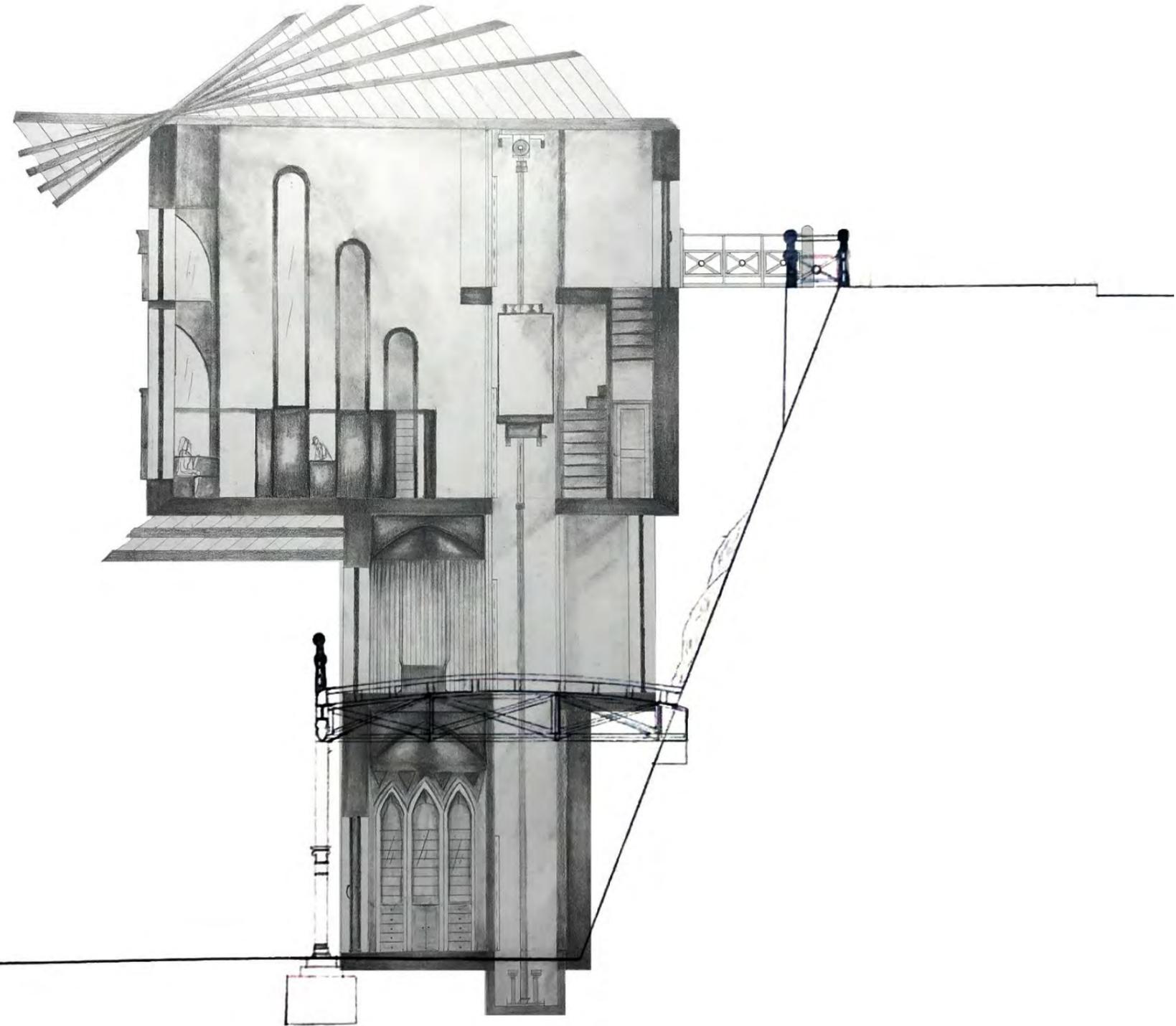
Design proposal street view drawing



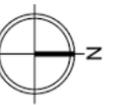
Dark shaded areas would have my pattern designs engraved onto them



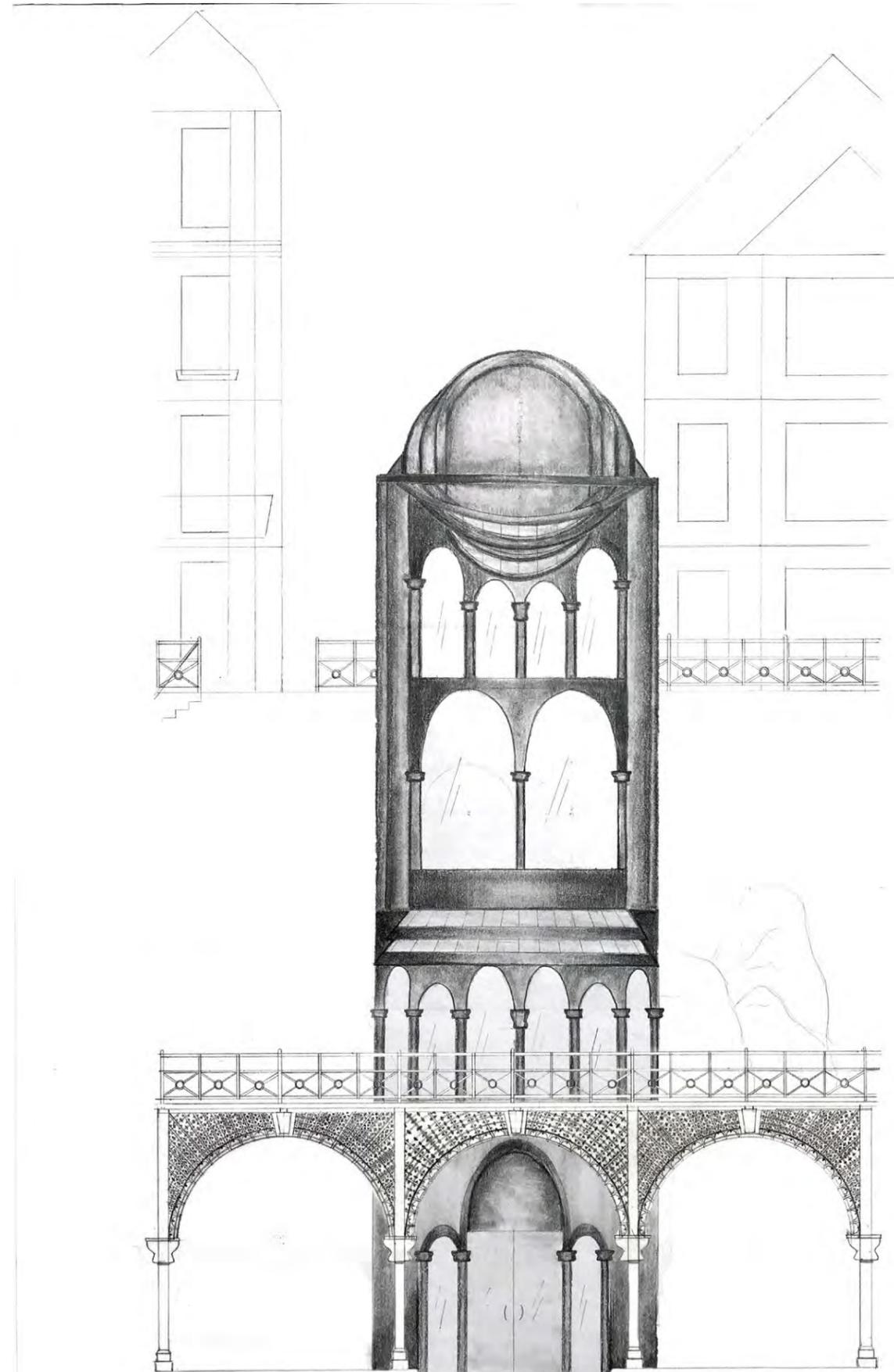
Design proposal section drawing



0 1 2 3 4 5 10
SCALE BAR 1:50



Design proposal elevation drawing



SCALE BAR 1:50

