SIMARPREET KAUR NARANG

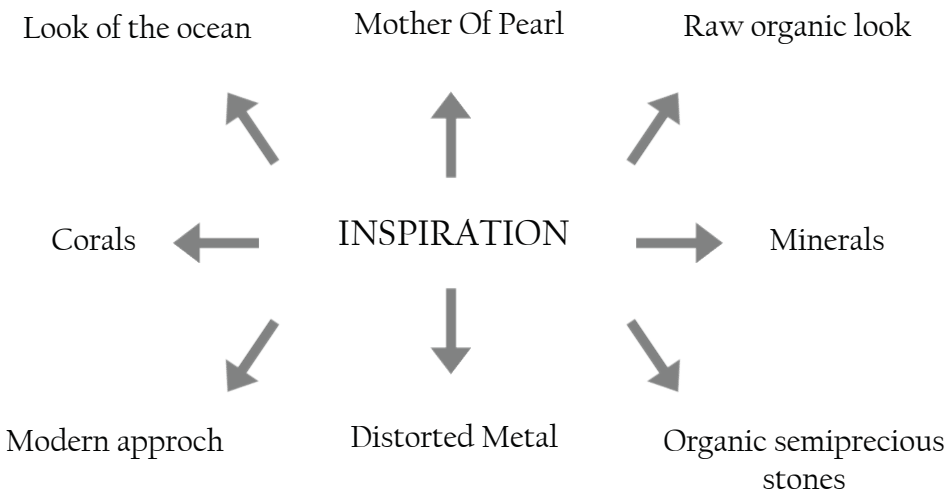
Fine Jewellery Documentation

ALL ABOUT

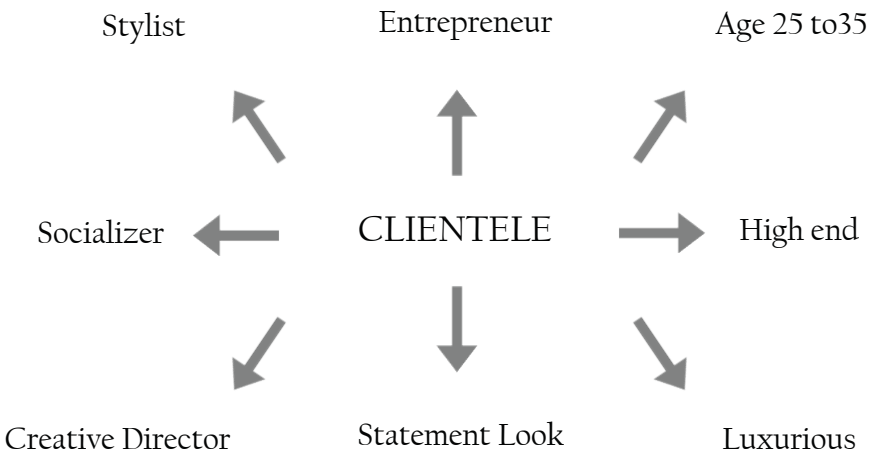
We were instructed to follow the design process. We did the trend and market research analysis from WGSN and designed accordingly. The board chosen was from Spring Summer 2021. First we created the inspiration board follwed by the client board and form generation. We designed different trending products and represented them in 3D form and orthagraphic view.

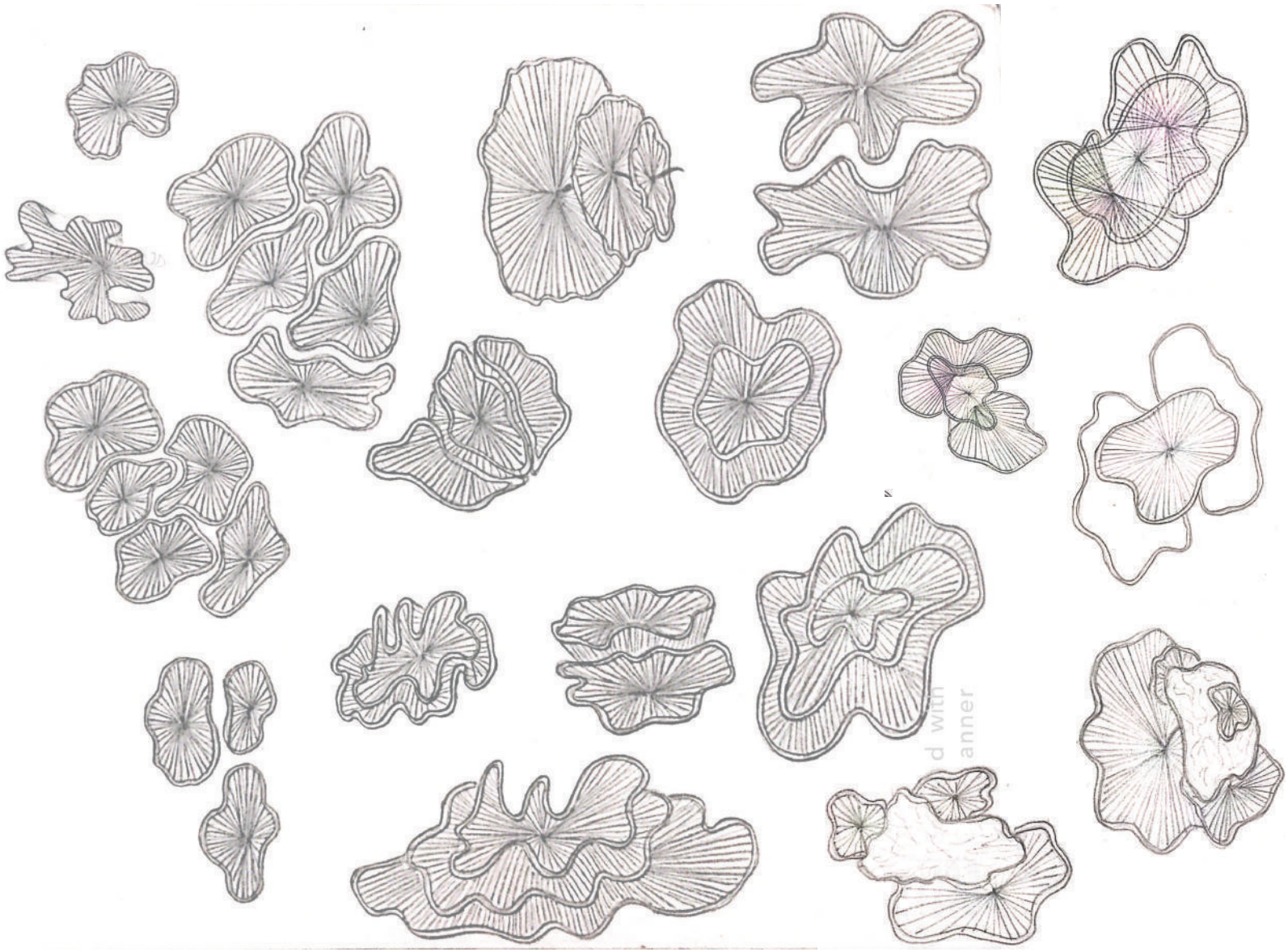
The inspiration in the following project is molten metal and corals that is “The core of earth and water.”

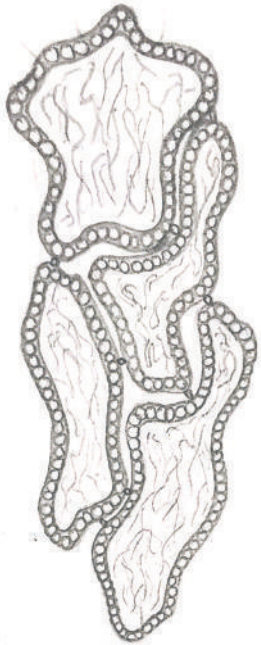
To add a different look to the molten metal, I used the texturing method, which was first appeared in late 1800’s and is now recently developed in jewellery concept and technology
This texturing method is called RETICULATION , which gives raw molten metal look and is practiced in contemporary and fashion jewellery style.



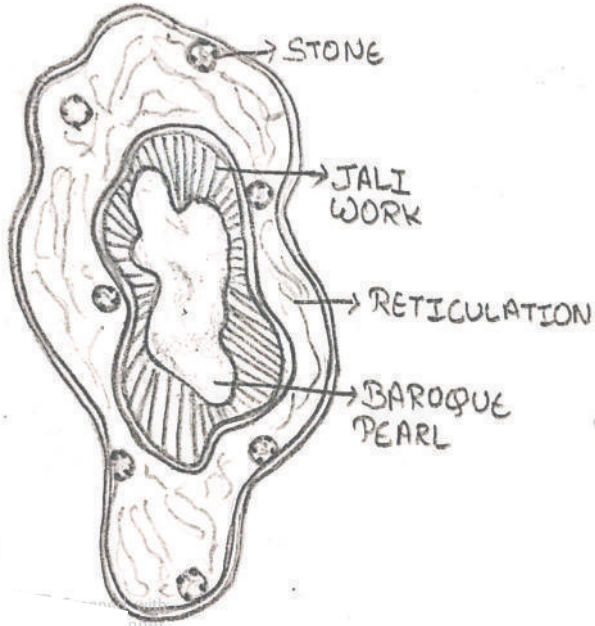
My client is Samantha Francis Baker who is an 30 year old entrepreneur. Currently she is a creative director. Being at a high end she has a luxurious lifestyle. She always carries a bold and statement look. Also being a stylist she is alwatys keen to wear all the trending products.

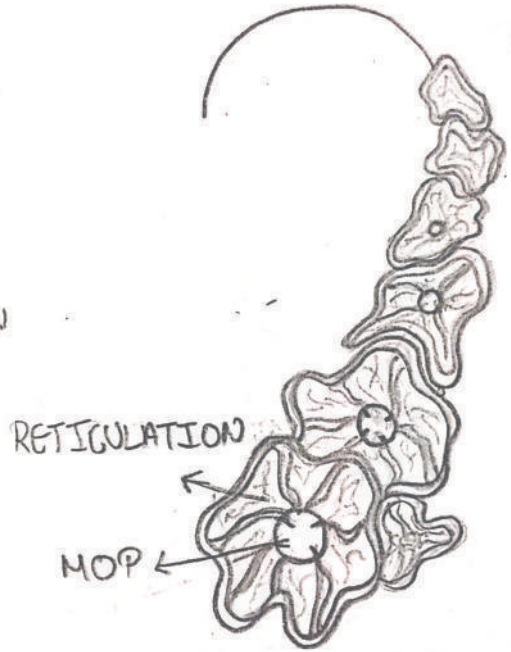


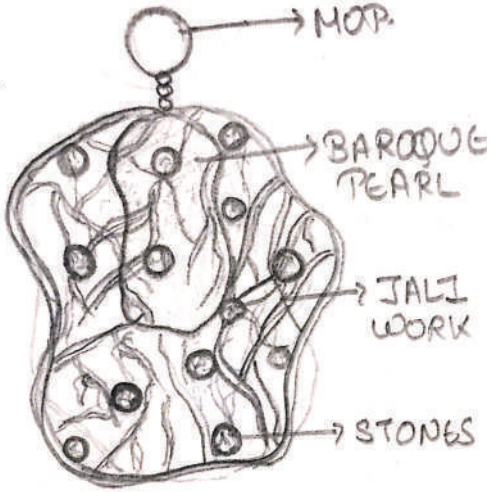


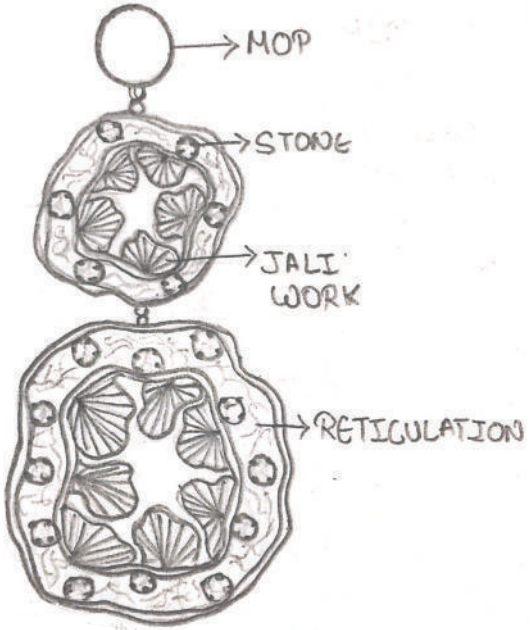


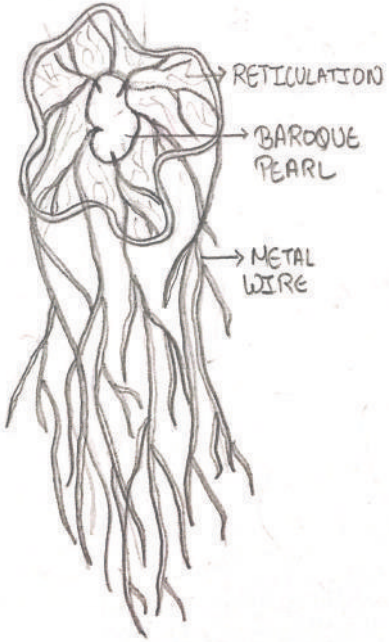

RETICULATION
STONE
BAROQUE PEARL

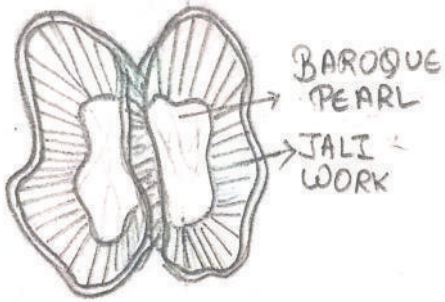

STONE
JALI WORK
RETICULATION
BAROQUE PEARL

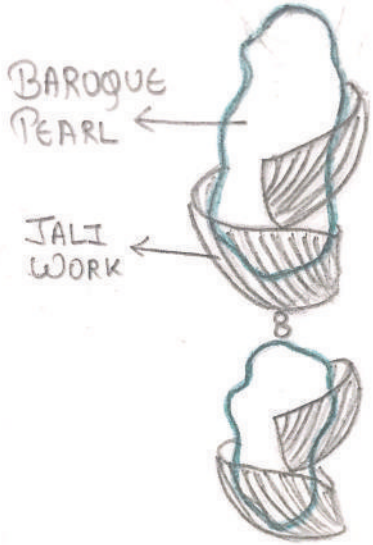

RETICULATION
MOP


MOP
BAROQUE PEARL
JALI WORK
STONES


MOP
STONE
JALI WORK
RETICULATION


RETICULATION
BAROQUE PEARL
METAL WIRE


BAROQUE PEARL
JALI WORK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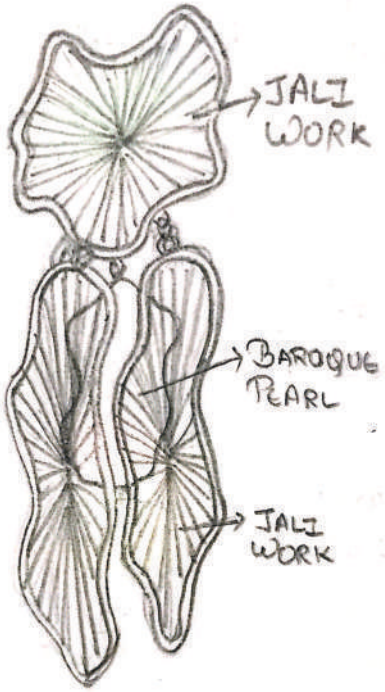
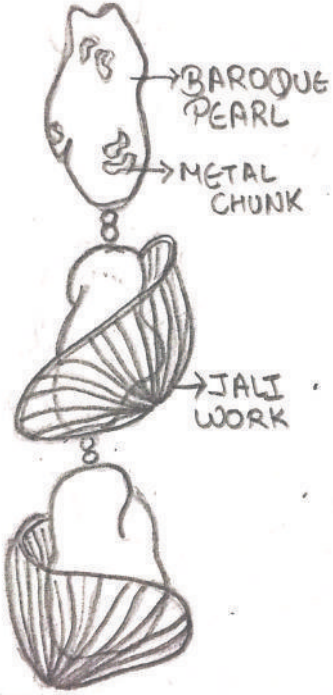
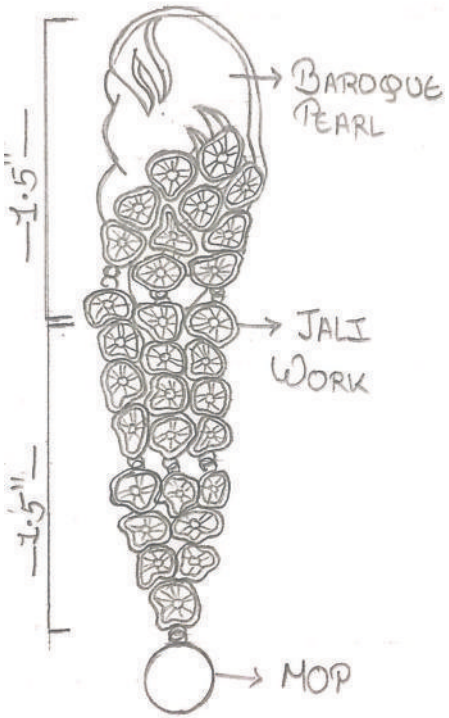
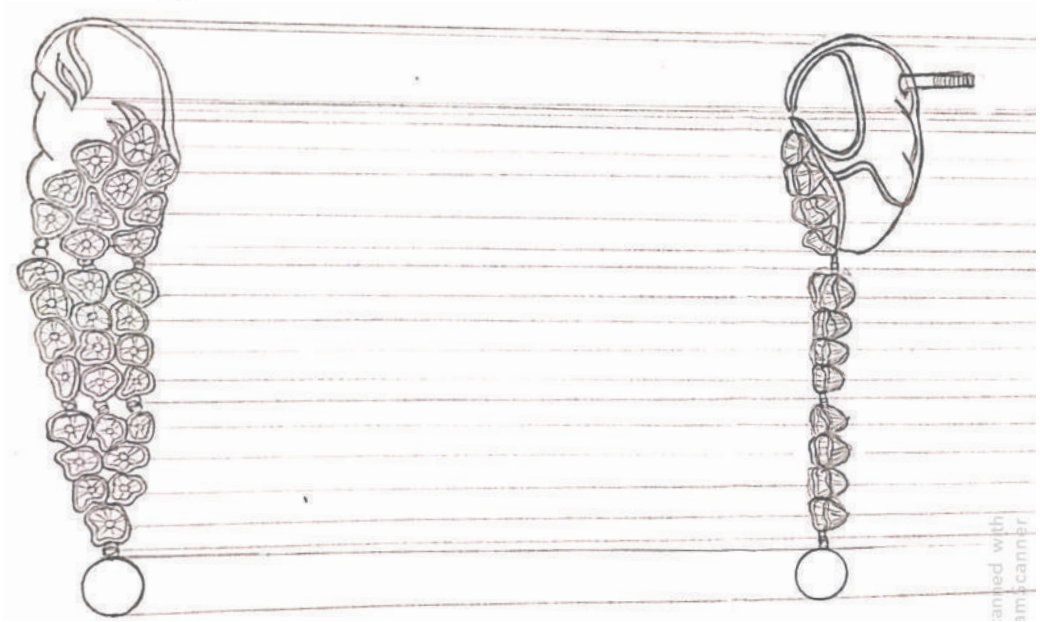
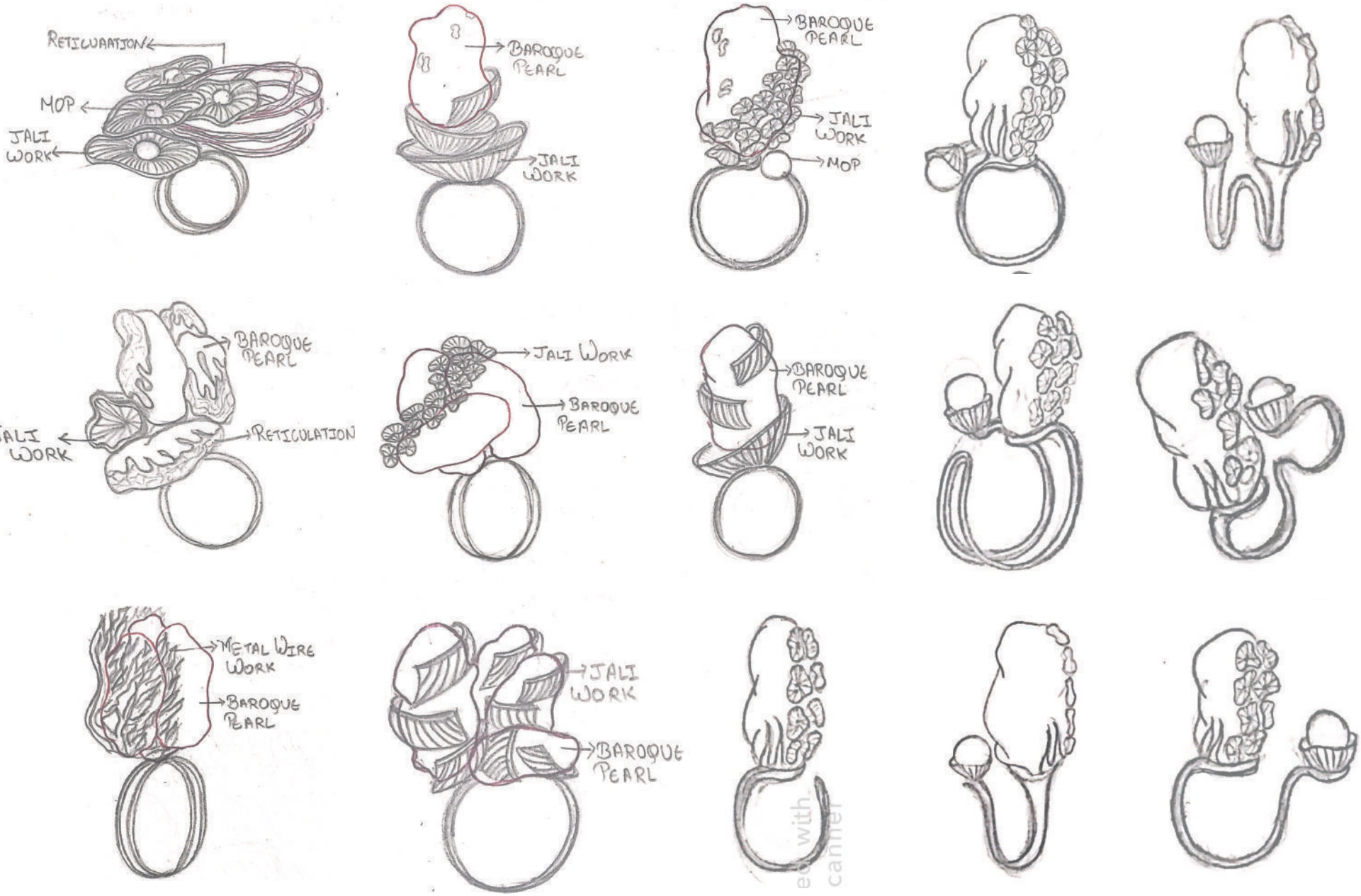
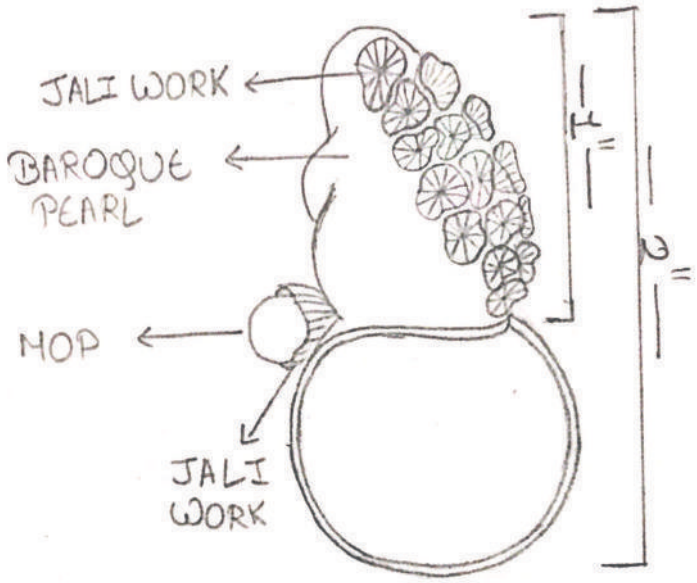

JALI WORK
BAROQUE PEARL
JALI WORK


BAROQUE PEARL
METAL CHUNK
JALI WORK


1.5"
1.5"
BAROQUE PEARL
JALI WORK
MOP




RETICUAATION
MOP
JALI WORK
BAROQUE PEARL
JALI WORK
BAROQUE PEARL
JALI WORK
MOP
BAROQUE PEARL
JALI WORK
RETICULATION
JALI WORK
BAROQUE PEARL
BAROQUE PEARL
JALI WORK
METAL WIRE WORK
BAROQUE PEARL
JALI WORK
BAROQUE PEARL


JALI WORK
BAROQUE PEARL
MOP
JALI WORK
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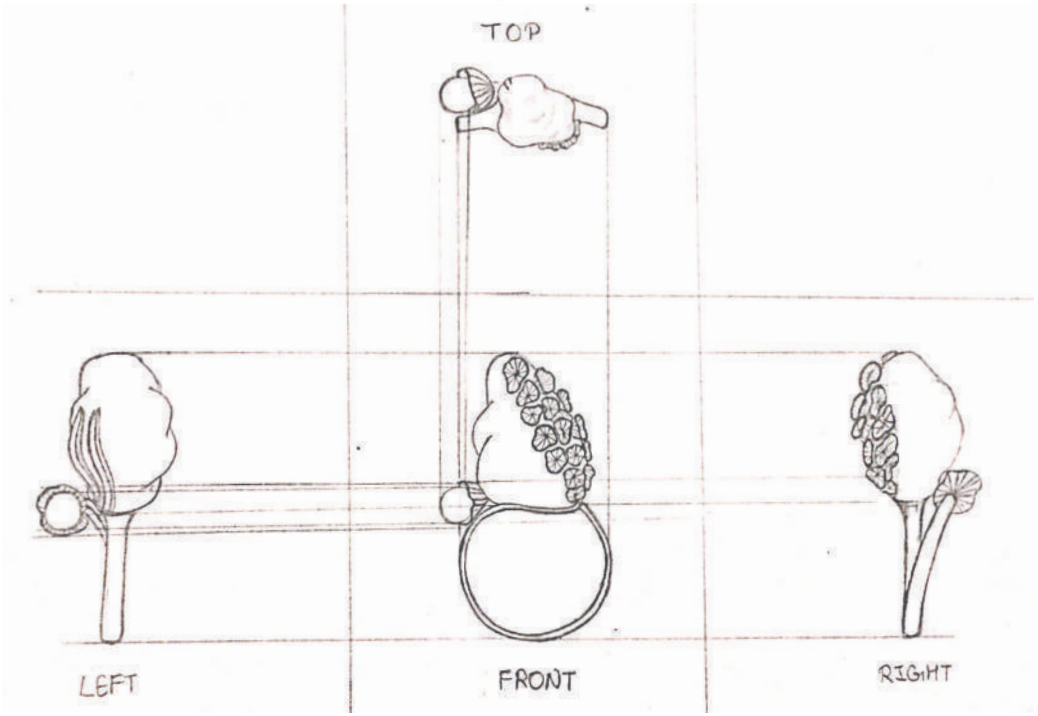
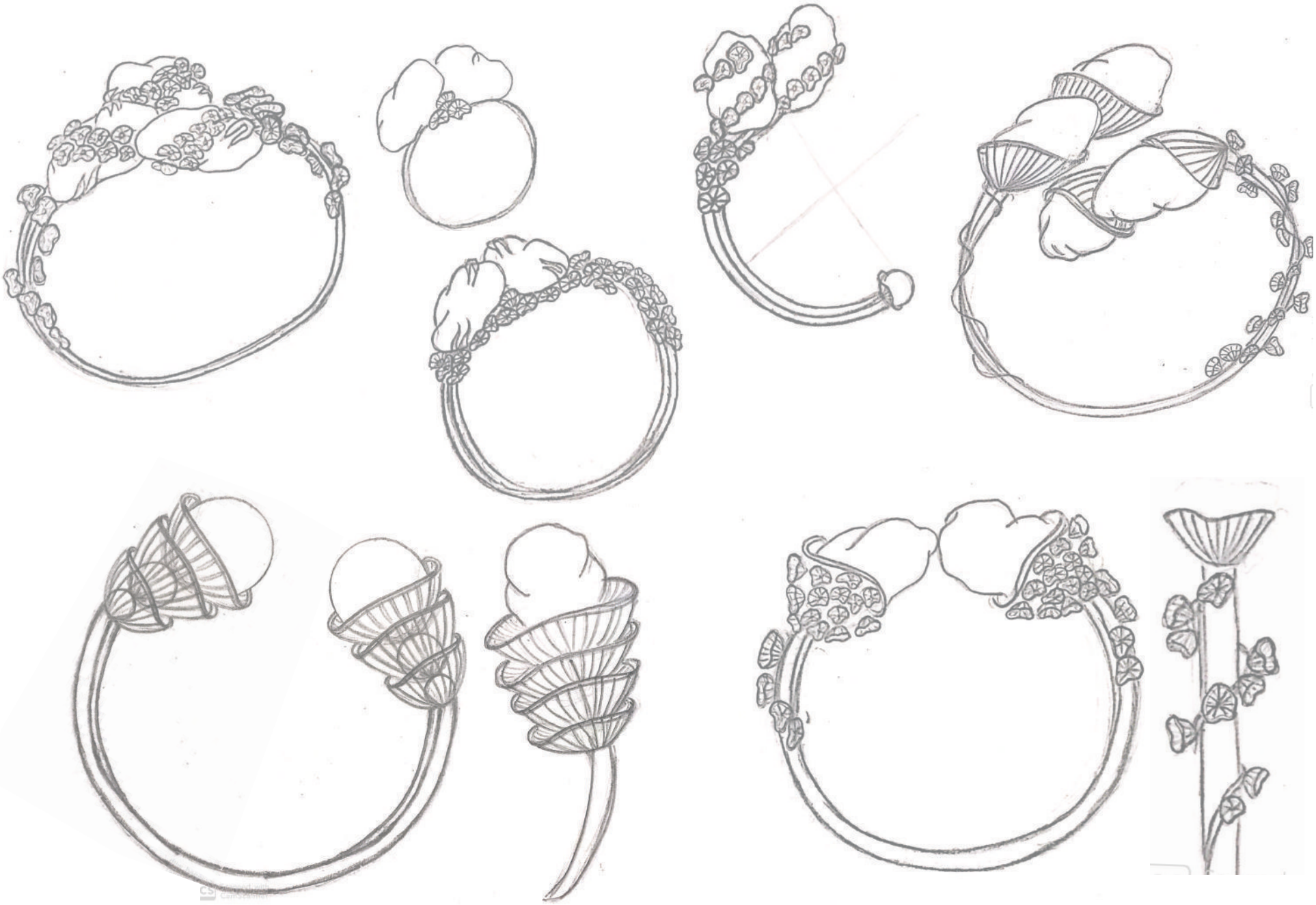
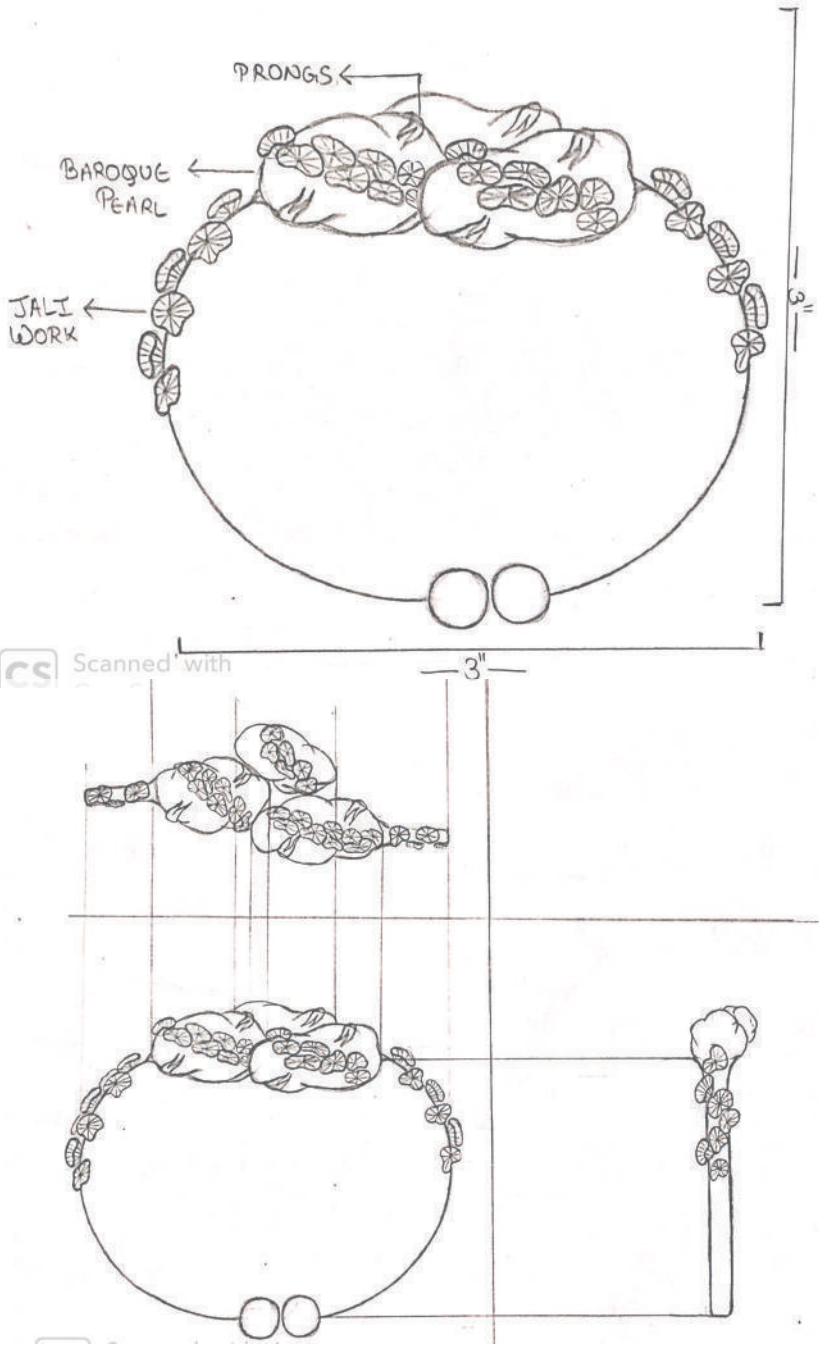
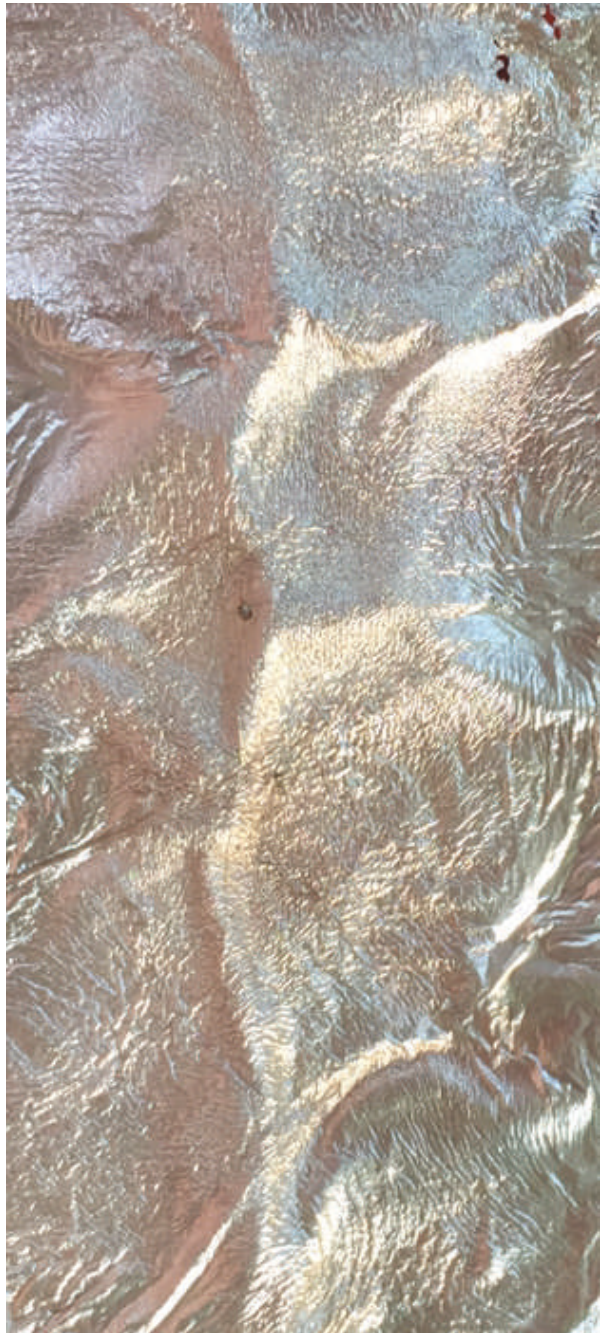

TOP
LEFT
FRONT
RIGHT





RETICULATION TECHNIQUE

To add a different look to the molten metal I used the texturing method called as RETICULATION.
Reticulation is a pattern of wrinkel lines formed which resembles the form of a mesh or net. Reticulation permits the studio jewellery to create unique tecxtures only on silver or gold. It usually involves heating a sheet of silver or gold alloy upto 10 times to oxidize the copper at the surface then picking to remove the oxide and leave a thin layer of pure metal. The result is that the surface wrinkles.



How Silver metal sheet is formed for Reticulation

80% of Silver

10% of Copper

7% of Zinc

2% of Cadmium

Silver metal sheet formed

Process of Reticulation

Depletion Process

- Heat the sheet to an temprature using a natural flame to deplet the copper that is in the surface.
- Quench the metal in clean water.

- Place it in a warmed pickle bath for 5 minutes, using a freshly mixed solution of pickle is best because it will more quickly remove the copper oxides.

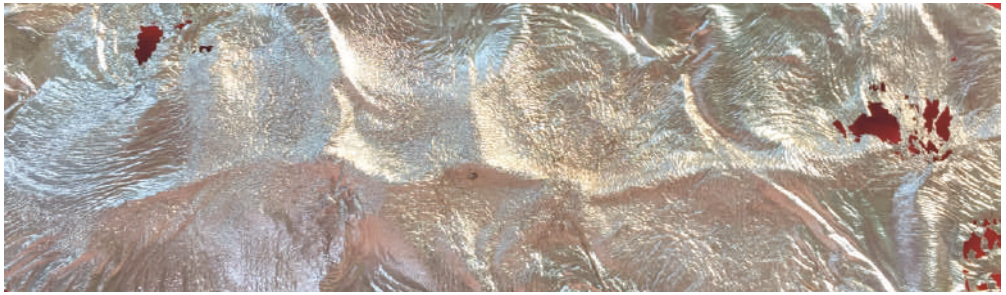
- Remove the metal from the pickle and rinse it in a clean water while brushing the surface with a brass brush. You will see copper that is rising to the surface in the form of a pink stain deep in the surface of the metal.
- Repeat steps 1-4 times until you have a powder white or powder gold surface when the piece is removed from the pickle. Then quench the piece in water and its ready to start reticulating.

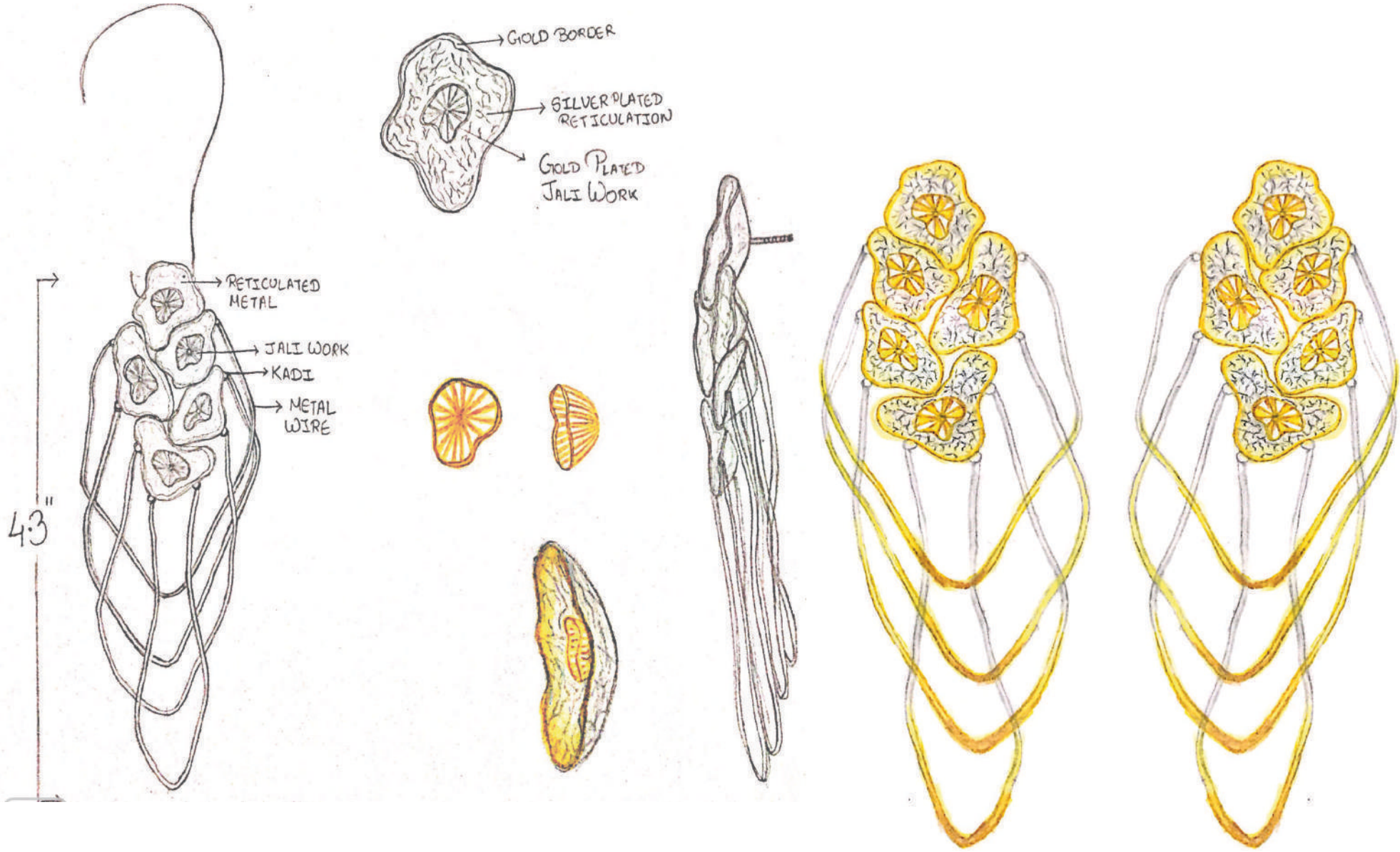
Reticulating the surface

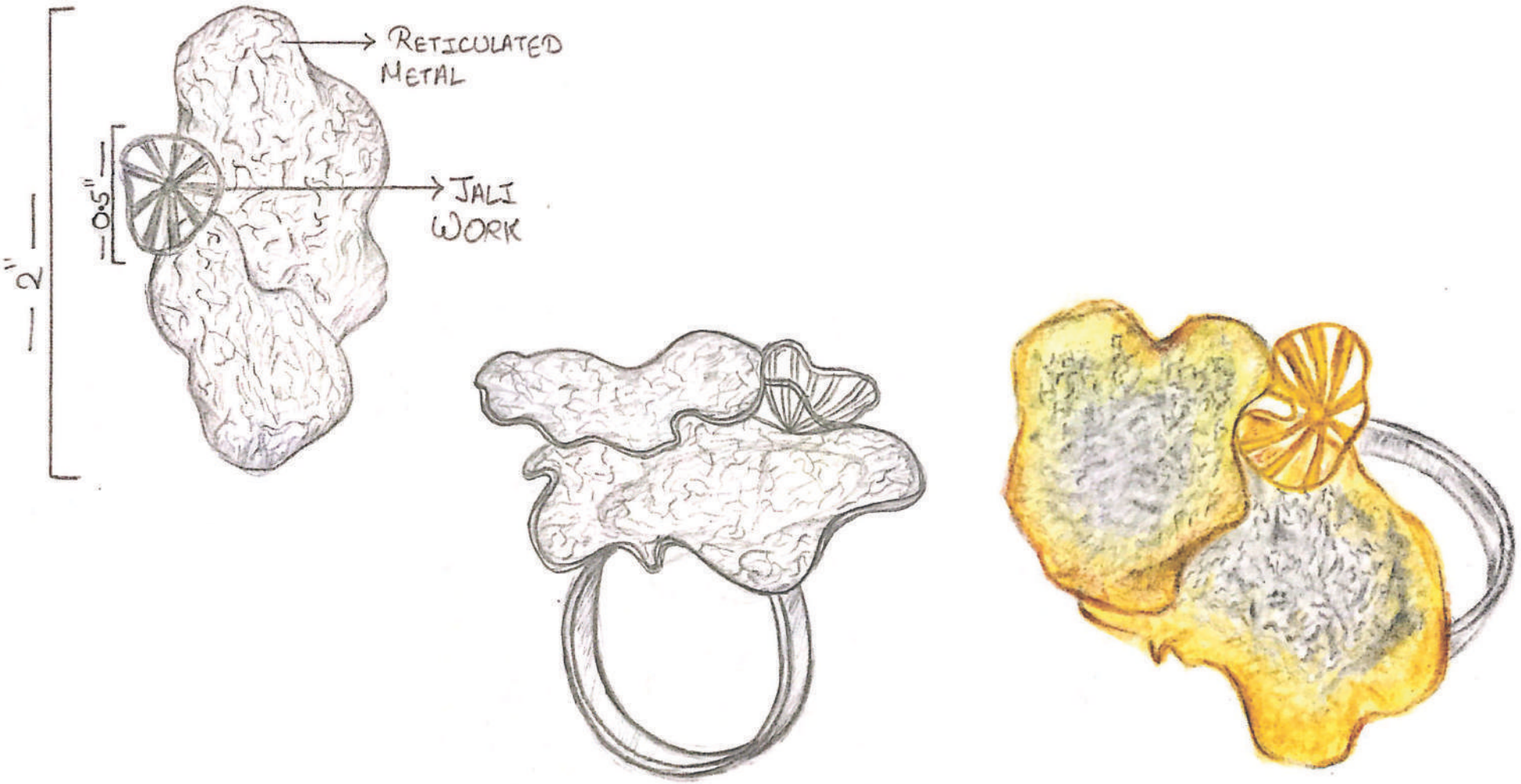
- After depletion, the sheet is now composed of two distinct layers, a silver or gold rich surface layer and an inner core with a higher percentage of copper. The inner core will have low melting point than that of the surface layer.
  When the metal is brought to a temperature at which the core alloy begins to melt, the surface layer will still be in a solid state. As heat is removed, the inner alloy will solidify and contract, which will cause the surface layer to wrinkle and " reticulate".

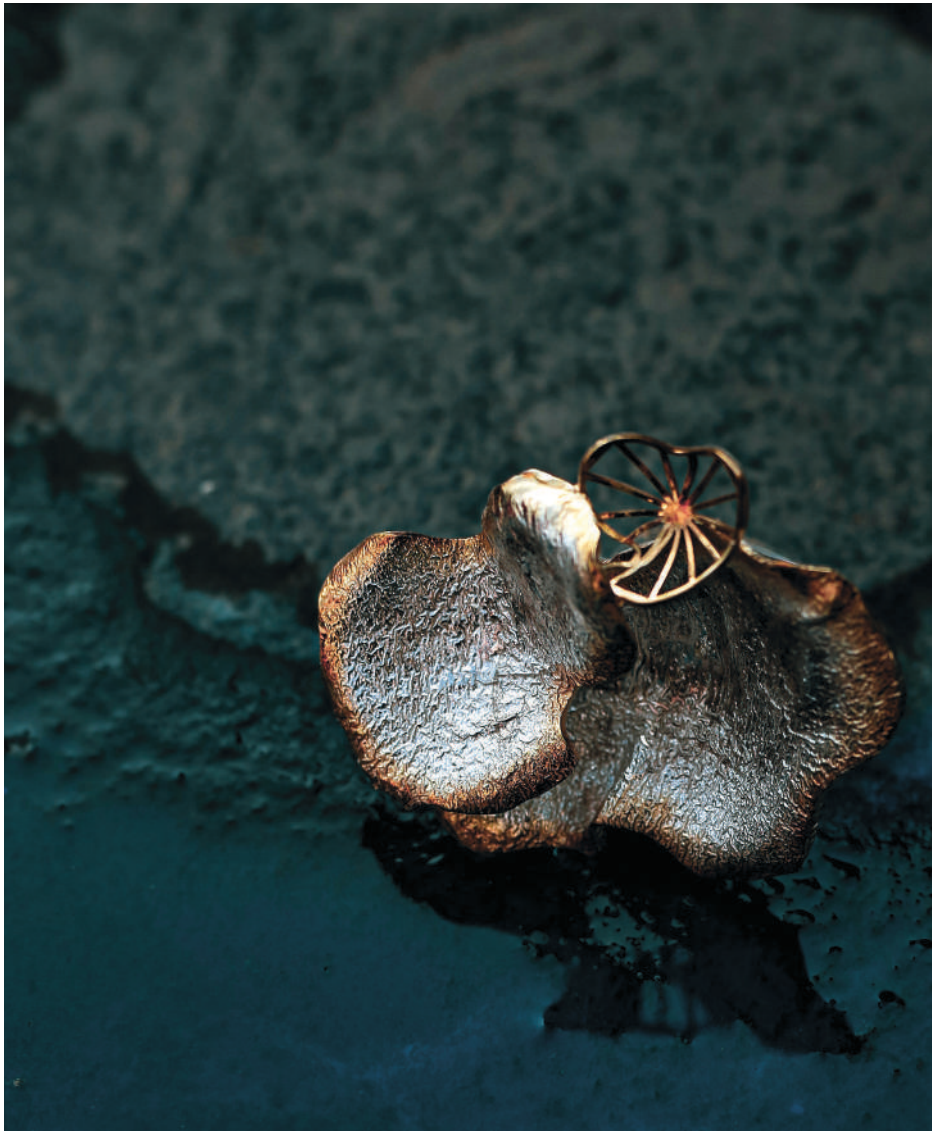
- Heat the metal sheet, concentrate the flame in one spot of the metal sheet, heat that spot for a second or two until you see the metal begin to glow, then remove the flame away.
- You will see the metal begin to wrinkle as the metal cools, the reticulation will follow the flame.
- Quench in water and place in a pickle bath.
- Remove the piece from the pickle and rinse.

- The metal is now ready to be used in the designs .
- It can be cut, shaped, bent and formed as any other alloy.
- If you paln on soldering it, you will want to use medium or easy solder to avoid remelting the core and disrupting the reticulated texture.




RETICULATED METAL
JALI WORK
KADI
METAL WIRE
4·3"
GOLD BORDER
SILVER PLATED RETICULATION
GOLD PLATED JALI WORK


RETICULATED METAL
JALI WORK
0.5"
2"



Learning from the project

- Learned the modification of simple form.
- By following the design process I learned to extract beautiful forms and execute pieces.
- I explored some new technique of Jewellery.
- Process of Reticulation.
- 3D drawing and Orthagraphic view.
- Technical Drawing.

THANK YOU