

62 ALBION STUDIO  
JEWELLERY QUARTER  
BIRMINGHAM, UK

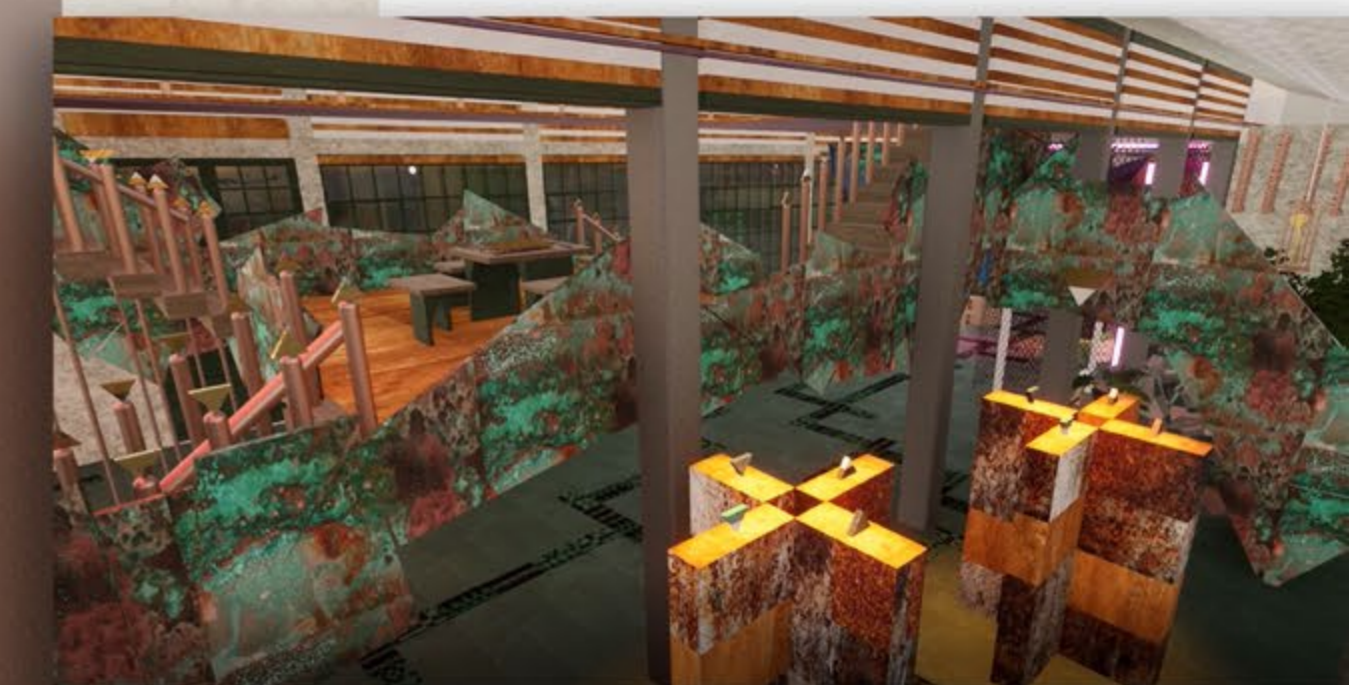
## COPPER STAIRCASE PROTOTYPE

THE HERITAGE DESIGN AIMS TO MAKE THE LANDMARKS MORE POPULAR WITH THE YOUNGER AUDIENCE THROUGH A HYBRID GAME WHICH ENCOURAGES GAMERS TO PLAY IN REAL LIFE, OFFERING A MUCH MORE IMMERSIVE AND MEMORABLE EXPERIENCE.

THE STAIRCASE IS AT THE CENTRE OF THE SPACE, DICTATING THE CIRCULATION AROUND THE INTERIOR, WHICH IS DESIGNED TO REFLECT THE BOARD GAME LEADING THE GAMERS TO THE CHALLENGE SPACES, CONNECTING THEM TOGETHER.

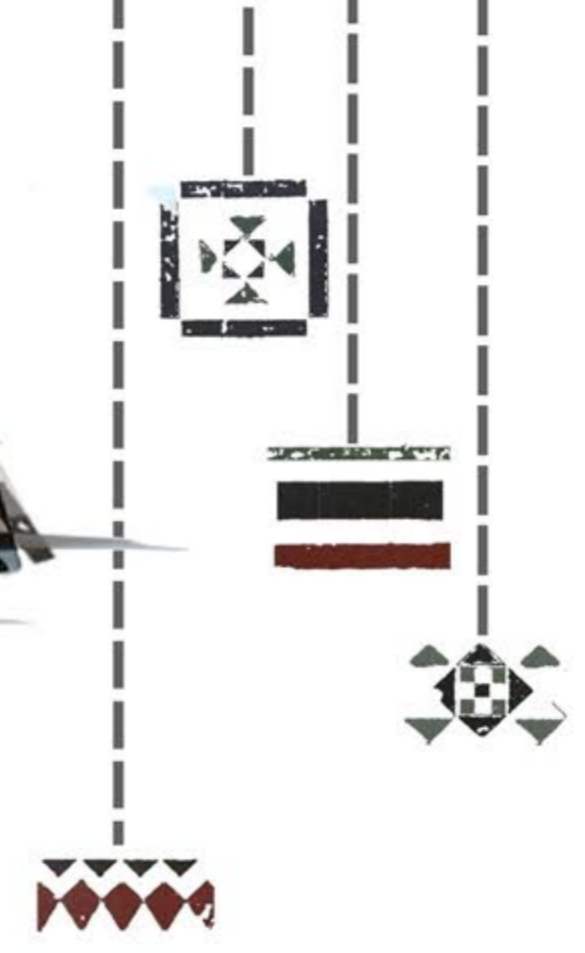
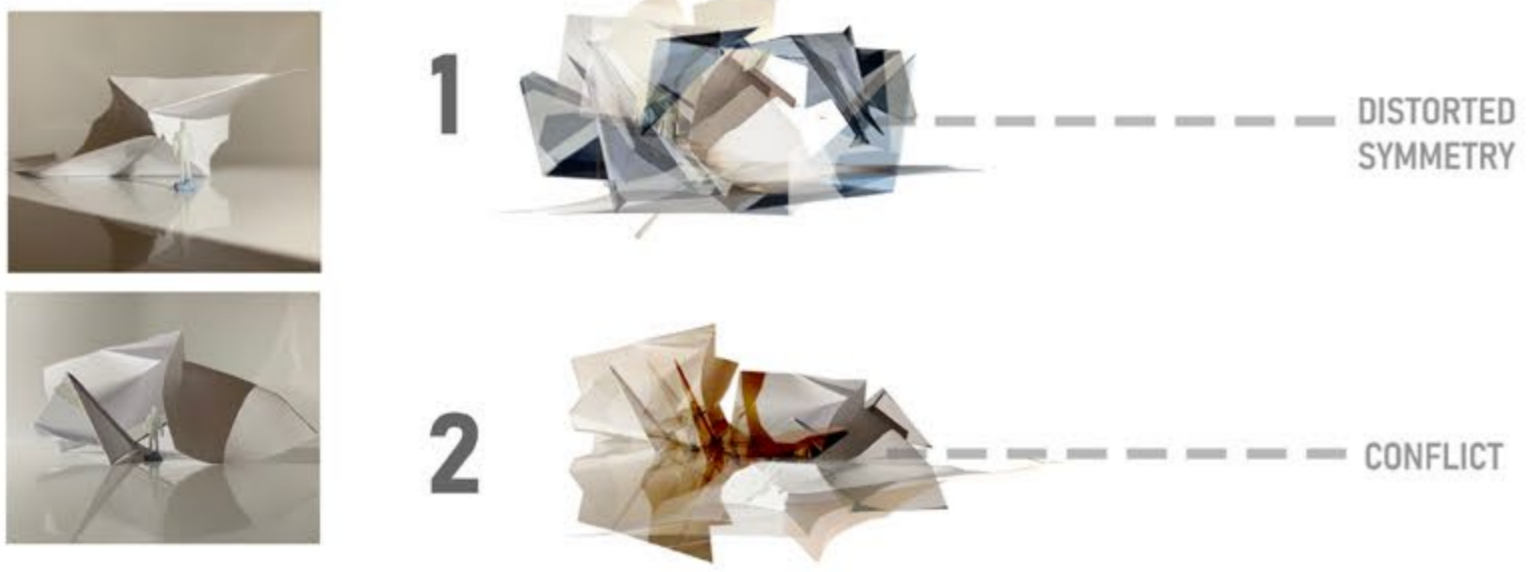
THE COPPER SYMBLISES THE 'WILDNESS' THAT INVADERS THE 'SAFETY' IN THE STORYTELLING THAT RELATES TO BOTH, THE CONCEPT OF CONFLICT AND THE COMPLEXITY OF DECONSTRUCTION. THE COPPER PANELS ARE LEFT UNTREATED, SO THEY CAN AGE NATURALLY, JUST LIKE THE PINE STAIRS OR THE CORTEN BOXES, ALLOWING THE SPACE TO BREATHE AND MATERIALS TO CHANGE OVER TIME.

TO WATCH A  
VIDEO OF  
THE SPACE  
SCAN ME

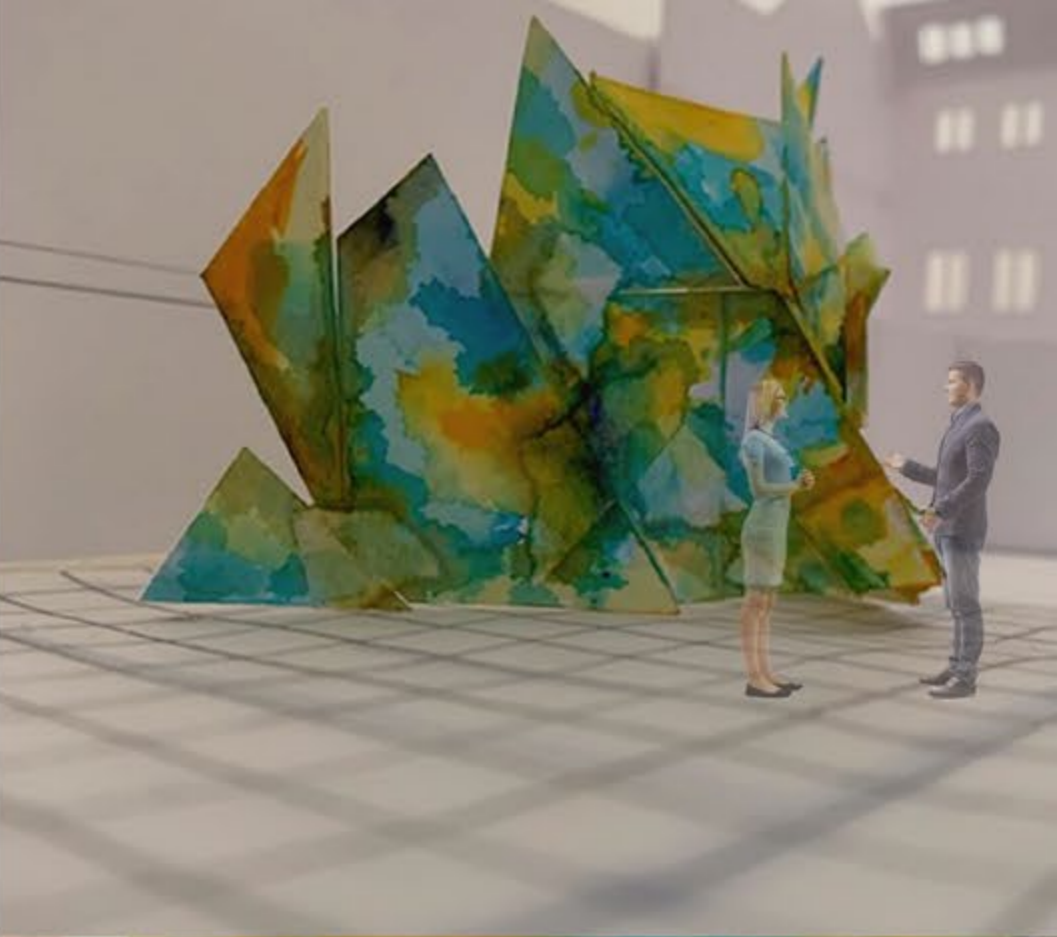




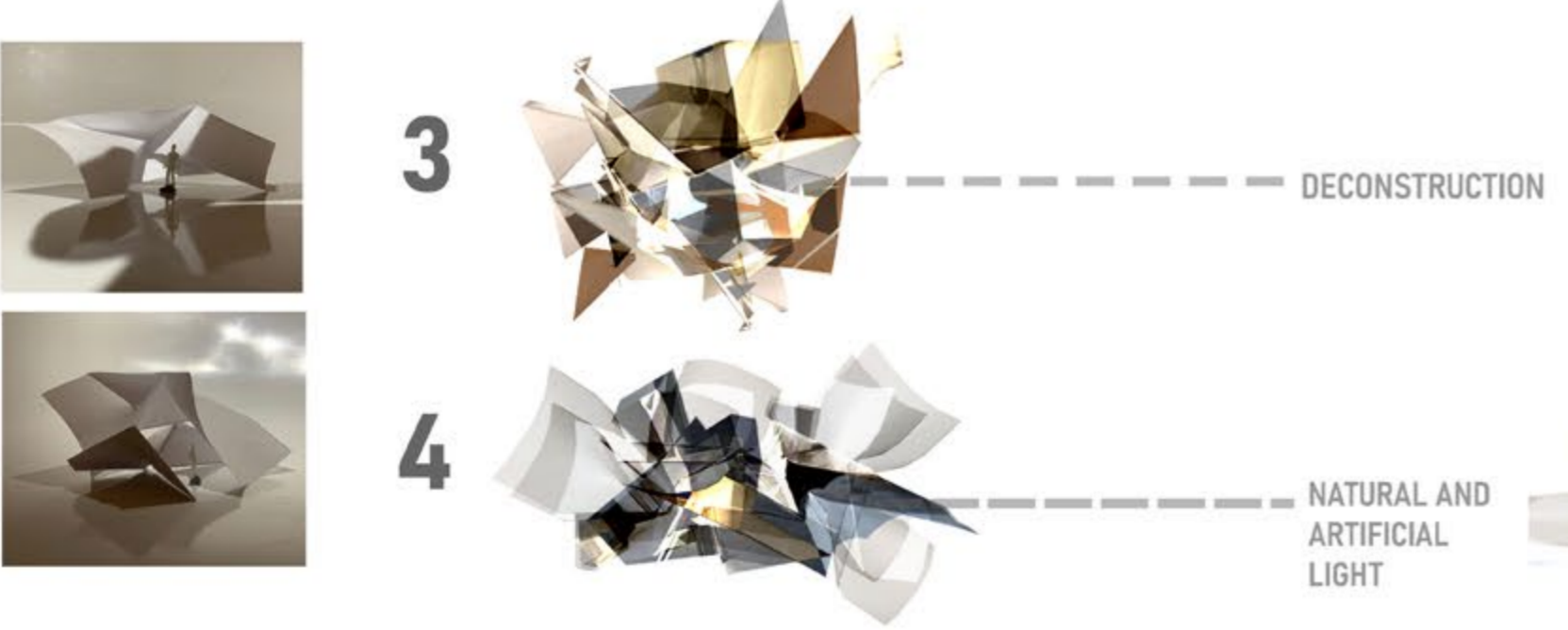
# CONCEPT DEVELOPMENT



COPPER PANELS CARD MODEL



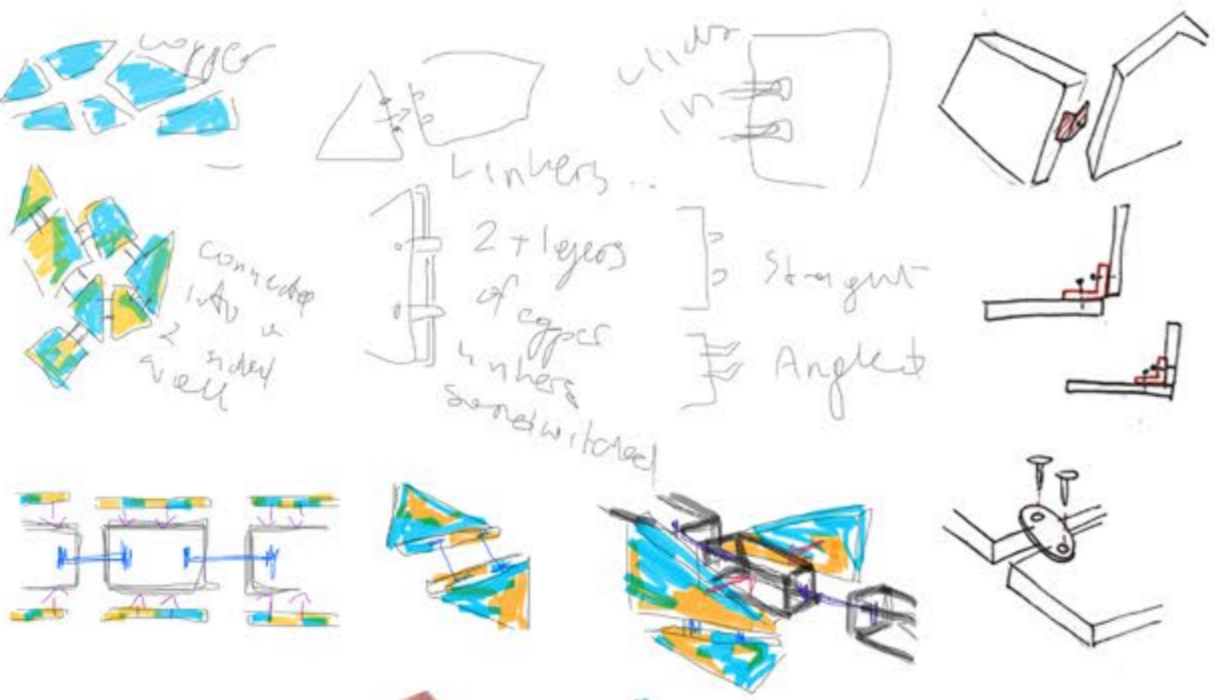
CARD MODEL ——— ATMOSPHERIC DIAGRAM ——— CONCEPT COLLAGE



AIMING TO PRESERVE THE ORIGINAL SET OF TILES FROM THE GRADE II LISTED SITE, THE TILES PROVIDED AN INSPIRATION FOR THE 'DECONSTRUCTED' BESPOKE TILES THAT AID THE CIRCULATION AROUND THE SPACE.



# COPPER PANEL DETAIL EXPLORATION

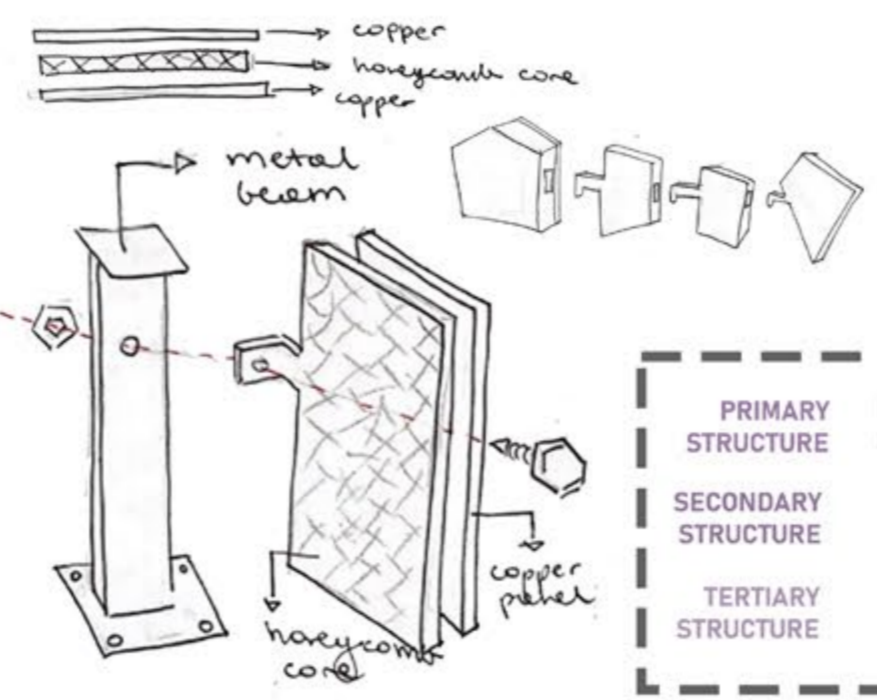


**RECIPROCAL STRUCTURE**

A RECIPROCAL FRAME IS A CLASS OF SELF-SUPPORTING STRUCTURE MADE OF THREE OR MORE BEAMS AND WHICH REQUIRES NO CENTER SUPPORT TO CREATE ROOFS, BRIDGES OR SIMILAR STRUCTURES

PRIMARY AND TERTIARY STRUCTURE: COPPER PANELS

SECONDARY STRUCTURE: CONNECTORS / LINKERS



TO ENSURE THE COPPER PANNELS CAN BE ATTACHED TO THE SIDES OF THE STAIRCASE AS WELL AS THE WALLS, THERE ARE TWO WAYS IN WHICH THEY CAN BE ASSEMBLED AND ATTACHED.

PRIMARY STRUCTURE	METAL/TIMBER SKETETON
SECONDARY STRUCTURE	CONNECTORS / LINKERS
TERTIARY STRUCTURE	COPPER SKIN

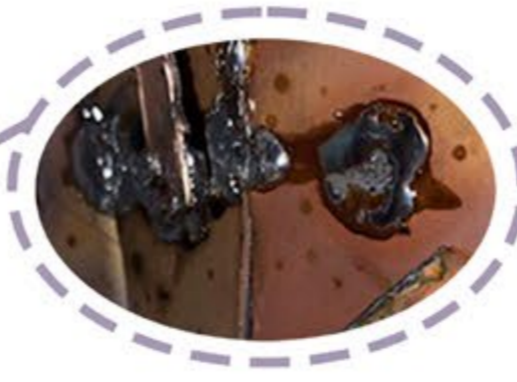




# TESTING COPPER

I LEFT THE EDGES SHARP AND JAGGED TO GIVE IT AN UNFINISHED FEEL TO MATCH MY CONCEPT - ALSO I HAD NOTHING FILE IT WITH OR TO SAND IT DOWN WITH :(

HIGH TEMPERATURE MADE COPPER CHANGE COLOUR AND LEFT SUBTLE MARKS IN SOME PLACES.



I HAVE INITIALLY FAILED TO SOLDER IT, SO I USED AN ADHESIVE HERE. AND WHEN LATER I WENT TO SOLER IT DIFFERENTLY, IT GOT MESSY.

THESE PIECES ARE BENT IN DIFFERENT DIRECTIONS SO I COULD TEST DIFFERENT WAYS OF ASSEMBLYING IT.

I SCREWED THE LITTLE POST TO A RECYCLED PIECE OF A FLOOR TILE TO GIVE IT SOME BASE.

MATERIAL	MELTING POINT	COMPOSITION	PROPERTIES	FINISHES	DIMINTIONS	COST/AVAILABILITY	MANUFACTURING PROCESSES	SUSTAINABILITY
COPPER	1083	PURE METAL	MALLEABLE DUCTILE EXCELLENT CONDUCTOR OF HEAT, CASTS WELL HARD WEARING CORROSION RESISTNT	POLISHED AND BUFFED	TBA USEING OFFCUTS	AVAILABLE LOCALLY	CUT ON CNC MILL/ROUTER  SOLDER IT BRAZE IT OR LAYER TWO SHEETS AND STICK A LINKER IN BETWEEN THEM	COPPER IS 100% RECYCLABLE AND HIGHLY DURABLE, SO ITS USE COMPLETELY MEETS THE REQUIREMENTS OF ECO-COMPATIBILITY

STAGES OF TESTING	MATERIALS PREPERATION	PROCESSING - CUTTING AND SHAPING THE PARTS	ASSEMBLY	FINISHING
	REUSED COPPER, FROM AN OLD COPPER PIPE. HAD TO BE CUT ACROSS AND SHAPED INTO A FLAT SHEET WITH A HAMMER .	THE FLAT PIECE OF COPPER HAS BEEN CUT INTO PARTS OR SIMILAR SIZE .	INDIVIDUALLY SOLDERED TO THE BASE TO CREATE A WALL OF COPPER	NO FINISH APPLIED



1 I HAVE FOUND AN OLD COPPER PIPE WITH THE GREEN PATINA.

2 TO BE ABLE TO REUSE THE PIPE I MADE A CUT ACROSS AND USED A HAMMER TO FLATEN IT. I USED A TIMBER BLOCK TO STOP THE COPPER FROM GETTING UNEVEN HAMMER MARKS.



BACK/INSIDE



FRONT/OUTSIDE

3 THE IMPACT FROM THE HAMMER MADE THE PATINA COME OFF AND THIS IS WHAT IT LOOKED AFTER. I ALSO CUT IT INTO SEPERATE PIECES OF SIMILAR SIZE TO MIMIC THE REAL COPPER OFFCUTS I PLAN TO USE IN MY DESIGN.



4 I ALSO FOUND THIS, AND REUSED IT AS A REPRESENTATION OF THE PRIMARY STRUCTURE THAT THE COPPER PANELS WILL BE ATTACHED TO.

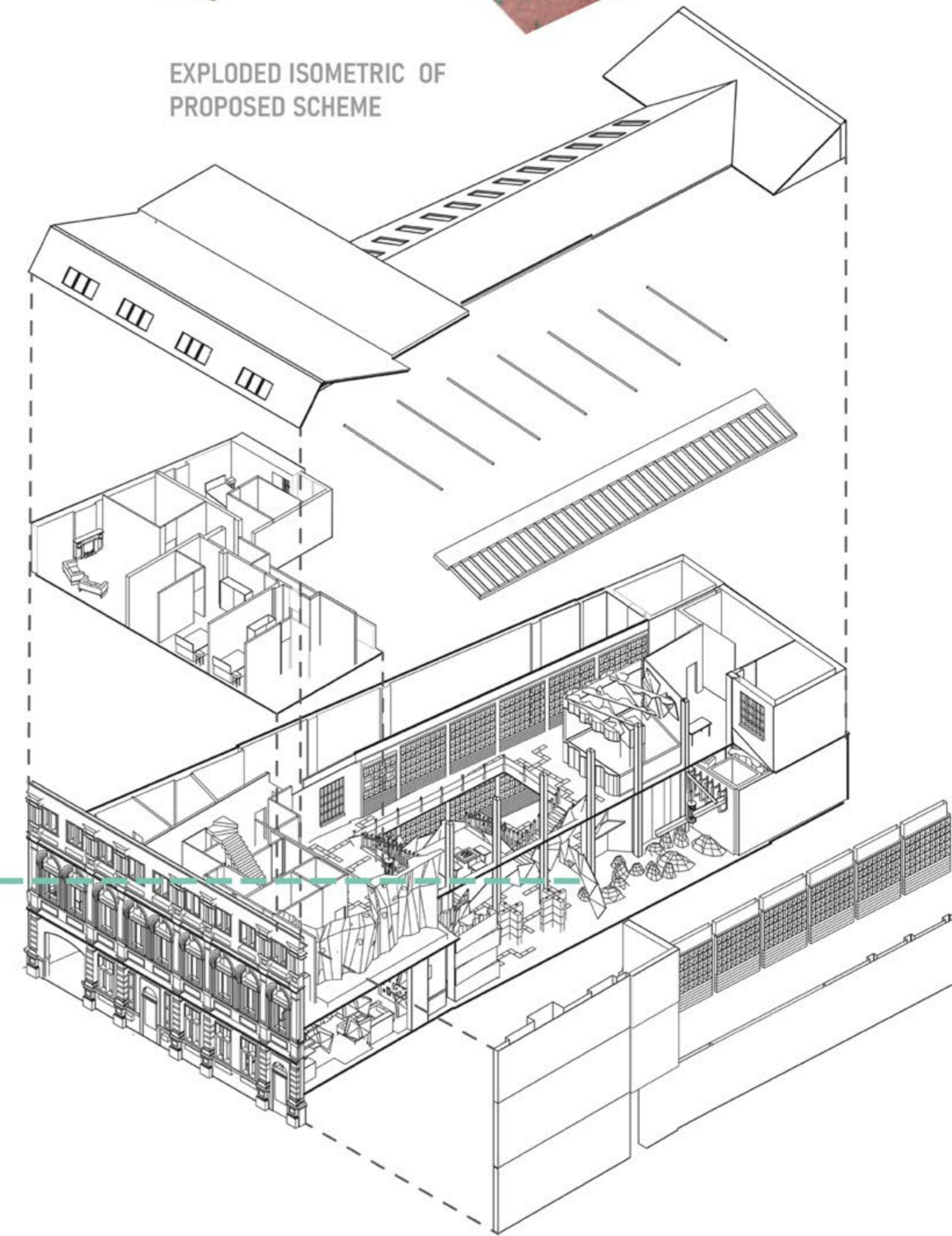
I DRILLED HOLES IN IT AND SCREWED SMALLER BITS OF COPPER IN, THAT I BENDED TO ENABLE LATER ADJUSTMENTS.



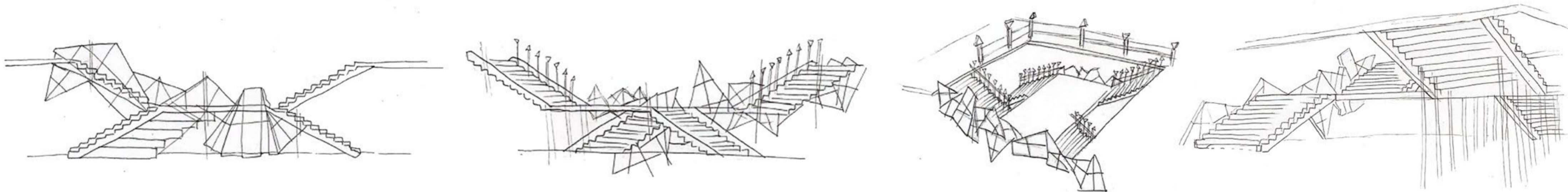
COPPER PANELS



EXPLODED ISOMETRIC OF PROPOSED SCHEME

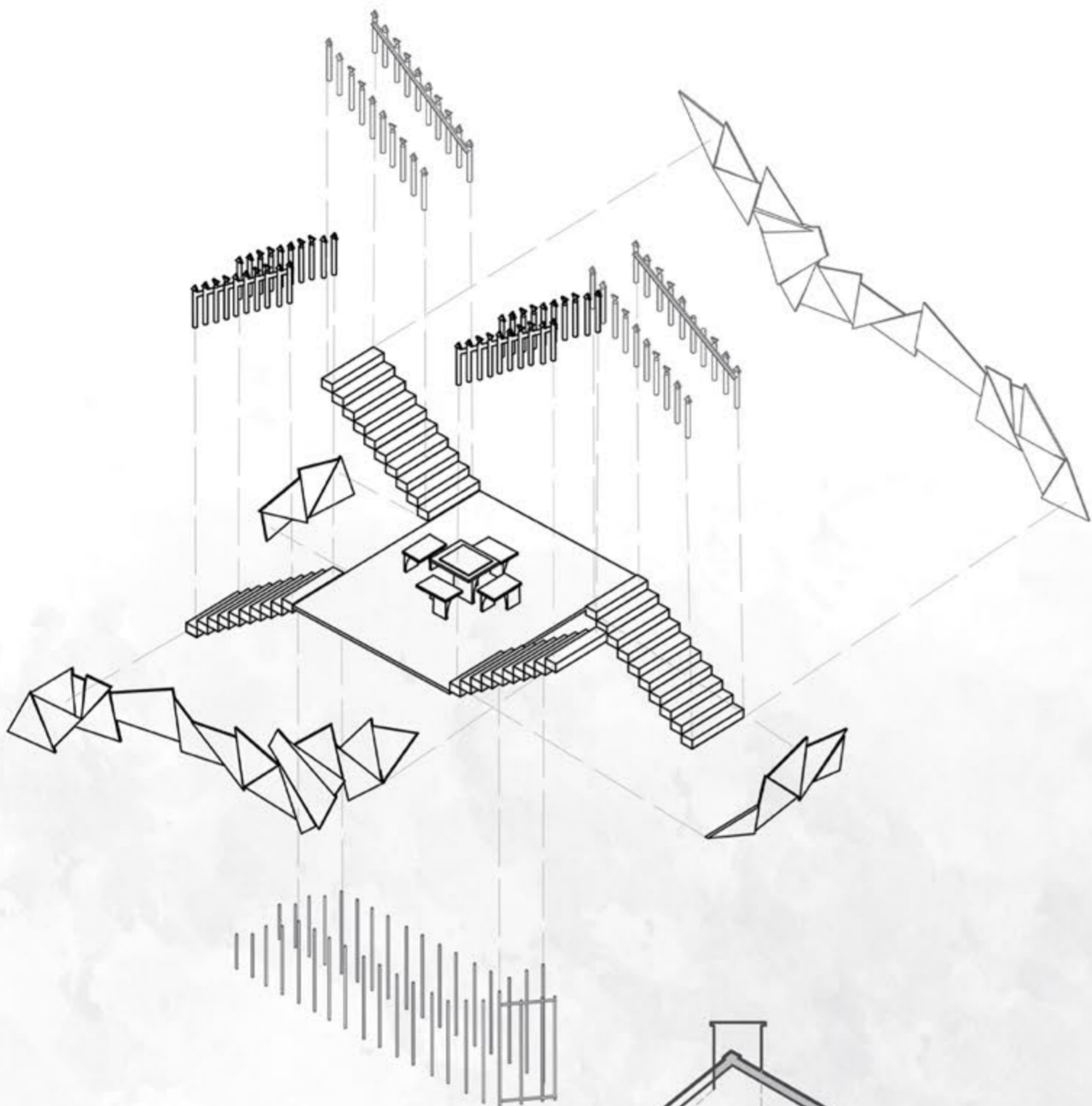


CONCEPTUAL DRAWINGS OF THE STAIRCASE

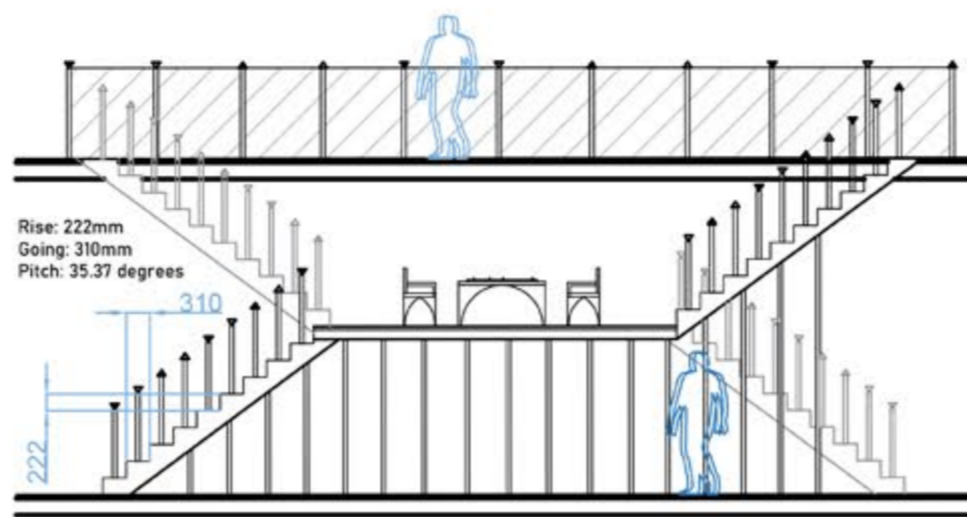




EXPLODED ISOMETRIC



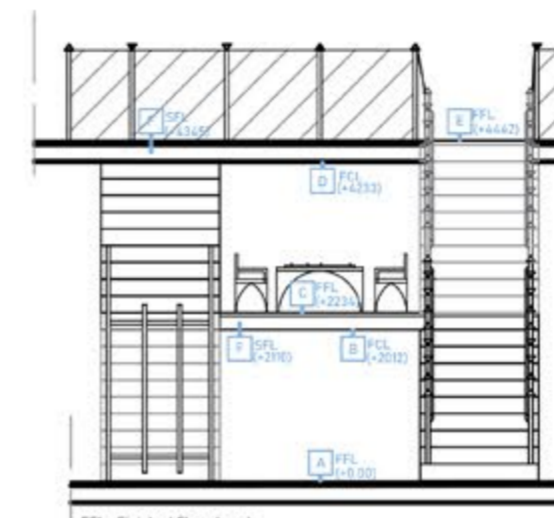
SIDE VIEW



Rise: 222mm  
Going: 310mm  
Pitch: 35.37 degrees

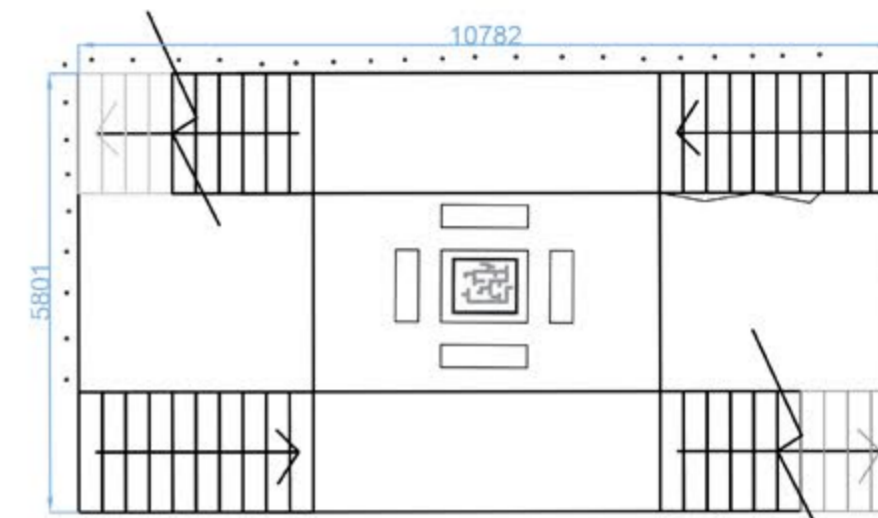
310  
222

FRONT VIEW

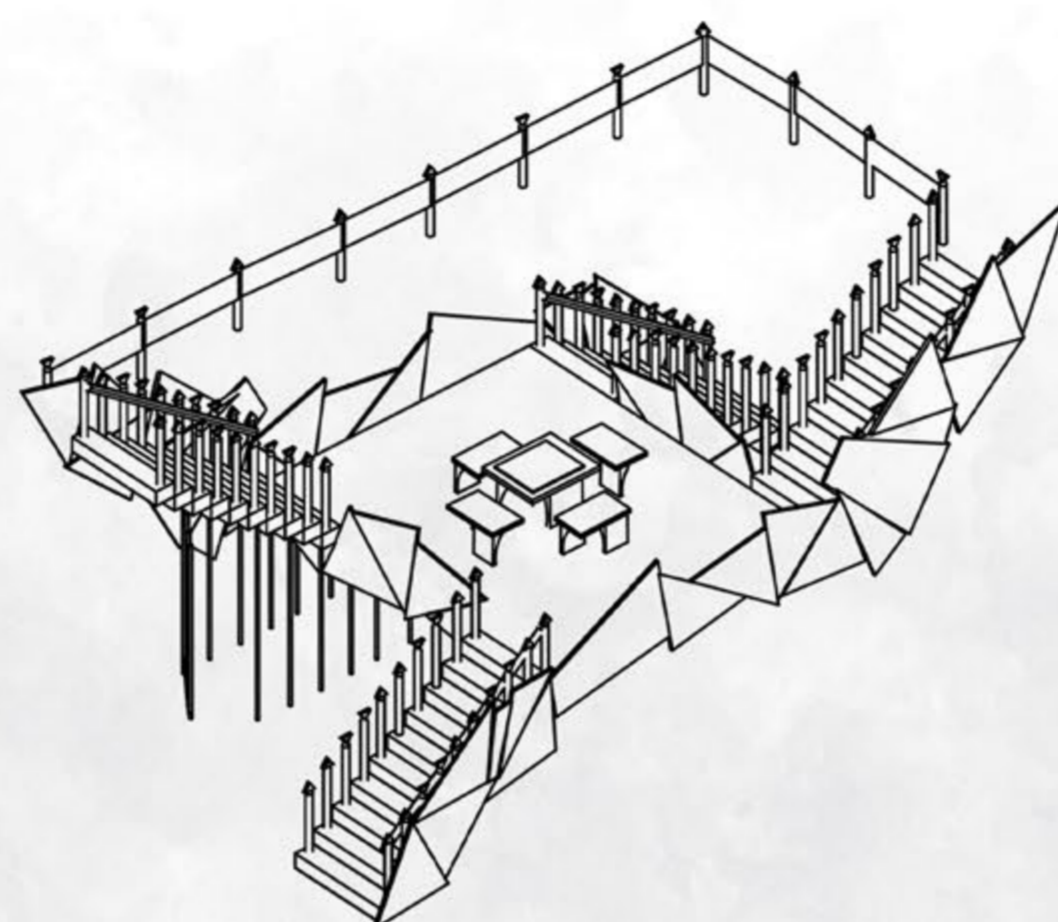


FFL - Finished Floor Level  
SFL - Structural Floor Level  
FCL - Finished Ceiling Level

TOP VIEW



PERSPECTIVE VIEW



STAIRCASE DETAIL

Conceptual bespoke detail  
LED Lights Handrail

15mm Glass balustrade

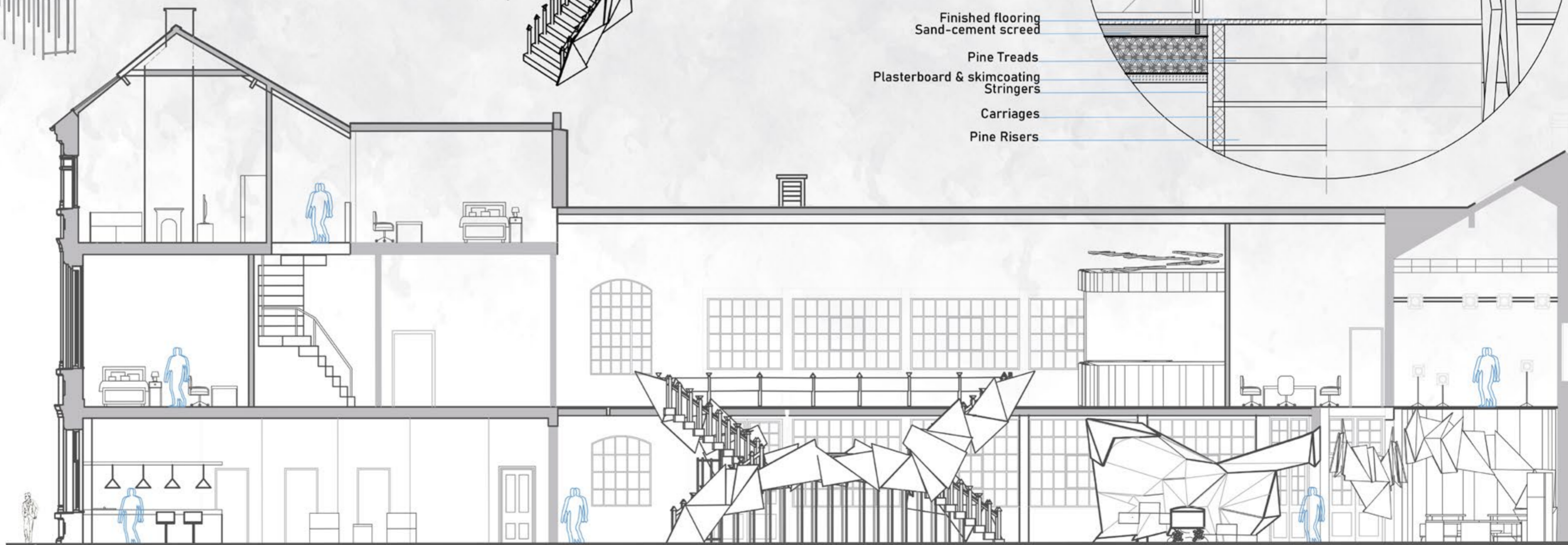
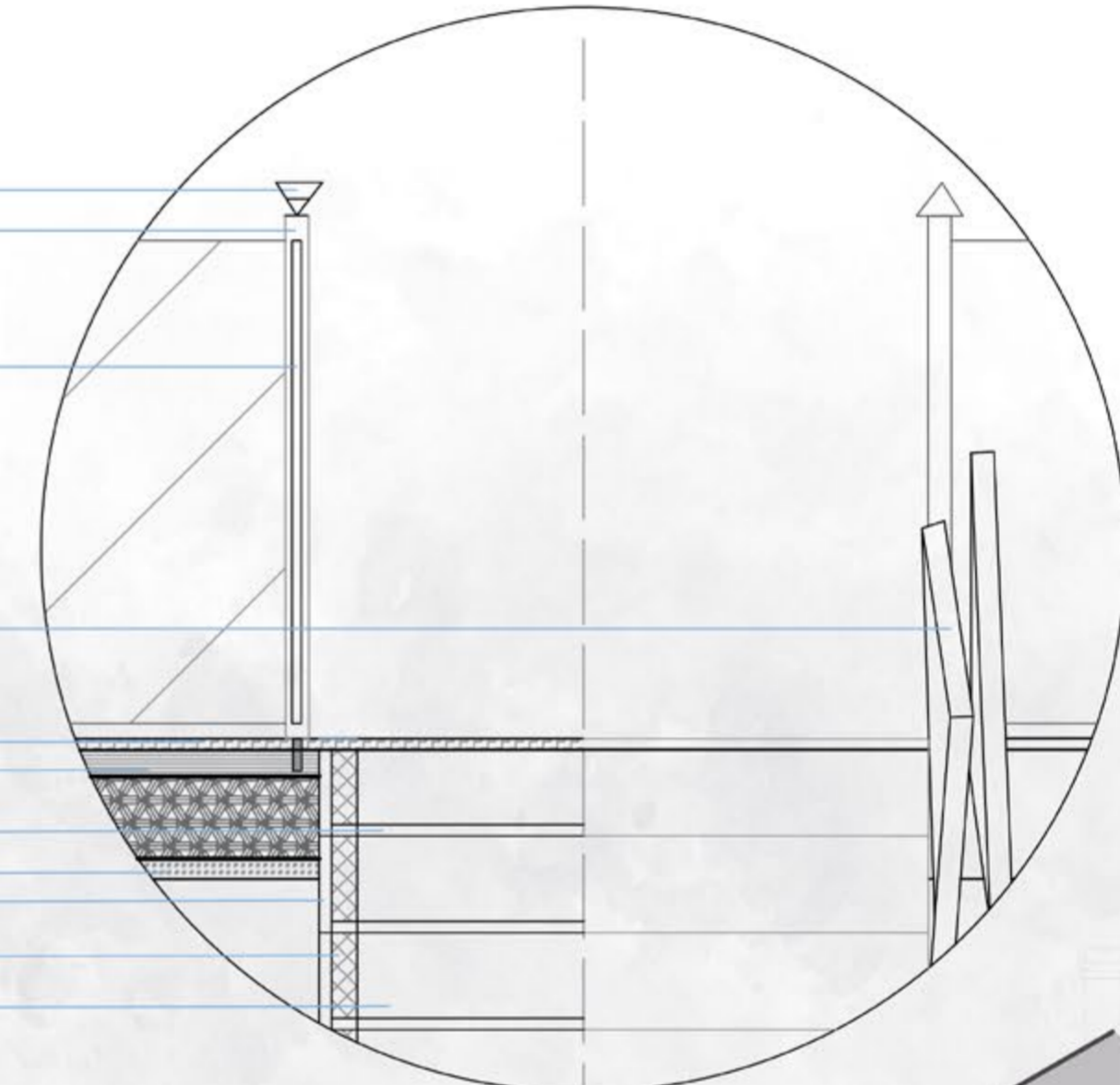
Copper panels

Finished flooring  
Sand-cement screed

Pine Treads  
Plasterboard & skimcoating  
Stringers

Carriages

Pine Risers



ALBION STREET

