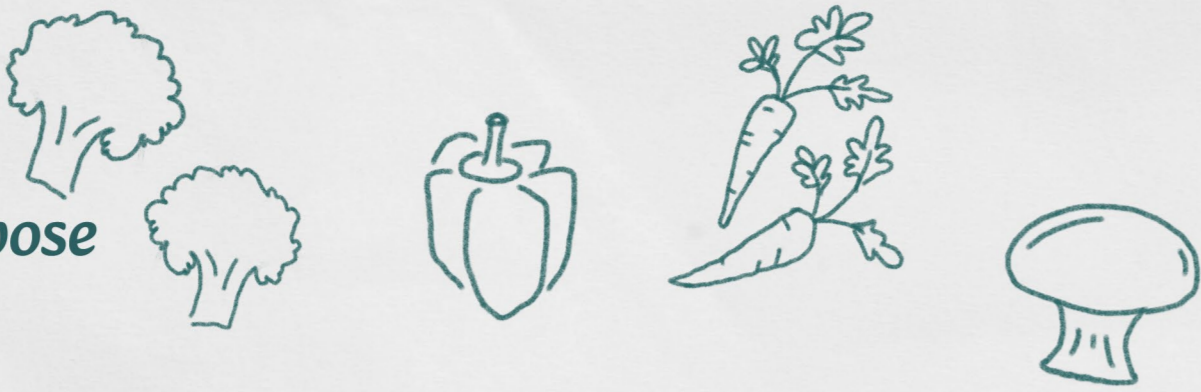


The Sown Table

From Plot to Plate, With Purpose

Rose Heppell



Project Description

The Sown Table is a haven for sustainable living where visitors can discover the importance of eating an environmentally conscious diet, in this case vegetarianism. The retreat is based in Wenford Dries on Bodmin moor, which was once a clay drying factory. Currently the building is in ruin, with graffiti and overgrown vegetation everywhere.

Studies find that meat accounts for almost 60% of all greenhouse gases emitted through food production. It is crucial that we protect our planet, and following a reduced meat diet is one simple fix that can have huge impact and lasting change on climate.

Inspired by the vegetation growing throughout the building, architectural roots grow through the retreat, splitting it up into respective zones and providing natural light to the space. Along with this, organic allotments have been placed in the original dries at the back of the building. Here users can grow their own fresh produce, which they can then use to cook their own nutritious meals.

Site - Wenford Dries



Wenford Dries is a grade II listed building located in **Bodmin, Cornwall**. It was built in 1907 as a china clay drying factory and operated until 2002, apart from a short period during WWII.

- The Dries consist of five major zones:
- Drags** - Sloped troughs to create fine clay powder.
 - Settling Pits** - Combine clay and water to create a paste.
 - Settling Tanks** - The paste is dried further.
 - Pan Kiln** - The upper terrace of the building, clay is fully dried over a coal furnace.
 - The Linhay** - Dried clay powder is stored, ready to be delivered by rail.

Site Map

- Wenford Dries
- Access road from A30 and car park
- Camel Trail, cycle and footpath
- River Camel
- Green space
- Surrounding buildings



External View of the retreat, showing the entrance ramp, original chimneys, and roots bursting through the roof.



Reception area and entrance to the building on level 0.



Outdoor Decking area and entrance ramp. Here there are planting beds and cafe seating.



Organic cafe where visitors can enjoy the fresh produce of the retreat while sitting amongst the roots and planting beds.



Brief

Based in rural Cornwall, this project design outlines an ecological and **sustainable retreat** for individuals to explore how a **reduced meat diet can benefit our climate**. Designed within the abandoned **Wenford Dries site**, the project will function as a retreat consisting of residential rooms, communal dining, culinary education, organic allotment/garden, and mindfulness zones.

The overall goal of the retreat is to encourage, and support those who want to follow more sustainable diets. Showing people the importance of a meat free diet, as well as educating them on how to prepare nutritious meals without the need for meat.

UN Sustainability Goals This Project Address

3GOOD HEALTH AND WELL-BEING

11SUSTAINABLE CITIES AND COMMUNITIES

12RESPONSIBLE CONSUMPTION AND PRODUCTION

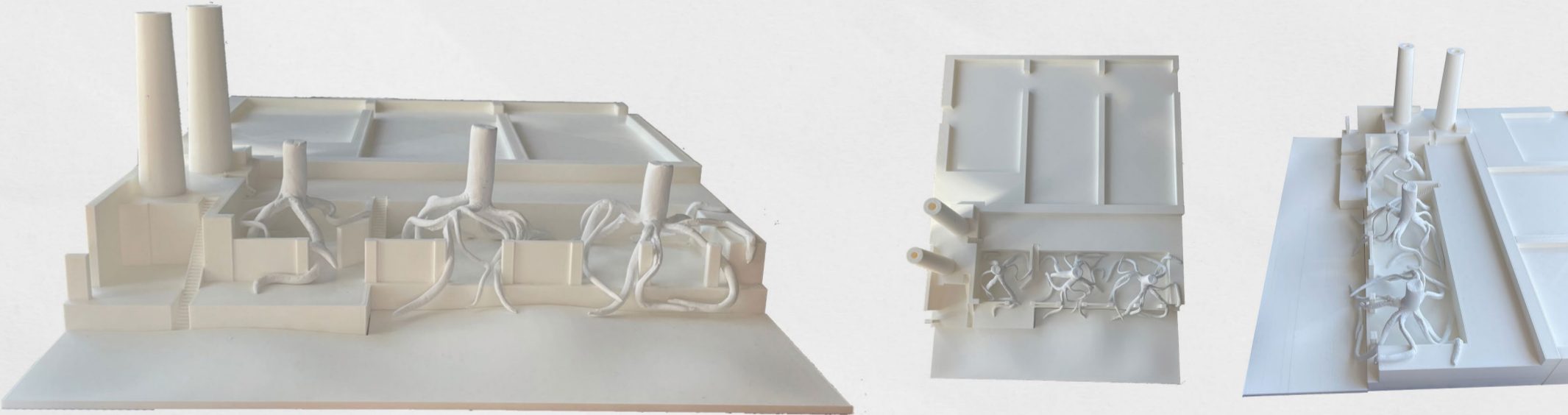
13CLIMATE ACTION

Concept

Throughout the project, **inspiration will be taken from nature** to create an organic and sustainably mindful retreat. The site located on Bodmin Moor is overflowing with nature, it is crucial that this is protected whilst designing. We can take notice of the nature found on the site, and use this to influence design choices.

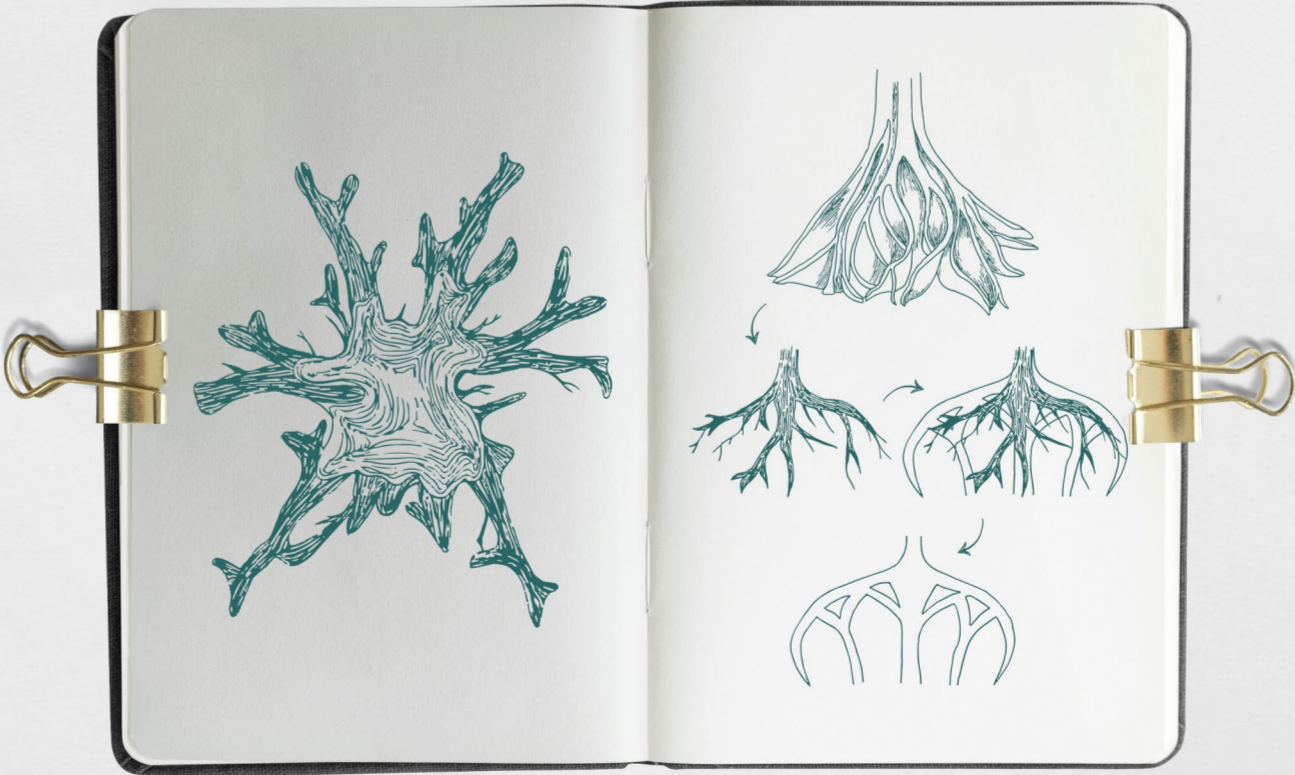


Concept Visualisation - 3D Modelling



The part of the building that is being used for this project has been modelled in Rhino and then 3D printed out of white plastic, creating a clean model of the building shell as it exists.

To bring the concept into the building, the trees have been built out of clay. The use of clay allows for organic shapes and curves to be crafted by hand. Overall this emulates the organic nature of the concept, and gives the project a detailed finish.



Mezzanine floor with sociable seating and indoor planting beds, overlooking the roots below.



Communal kitchen where culinary classes take place, and users cook their own food.



Long Section - AA



Existing Site Characteristics

Graffiti



Metal Roofing

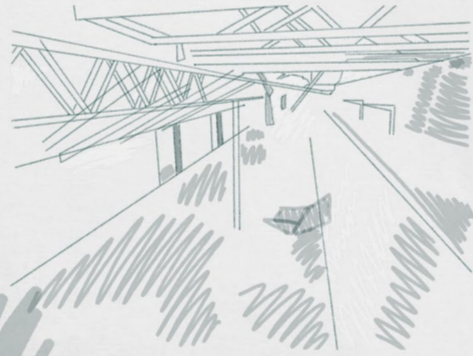
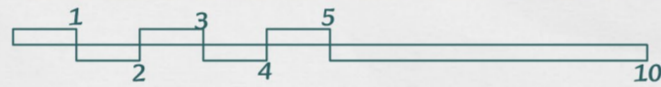


Concrete Flooring



Vegetation

Mossy Walls



Material and Colour Scheme



Key:

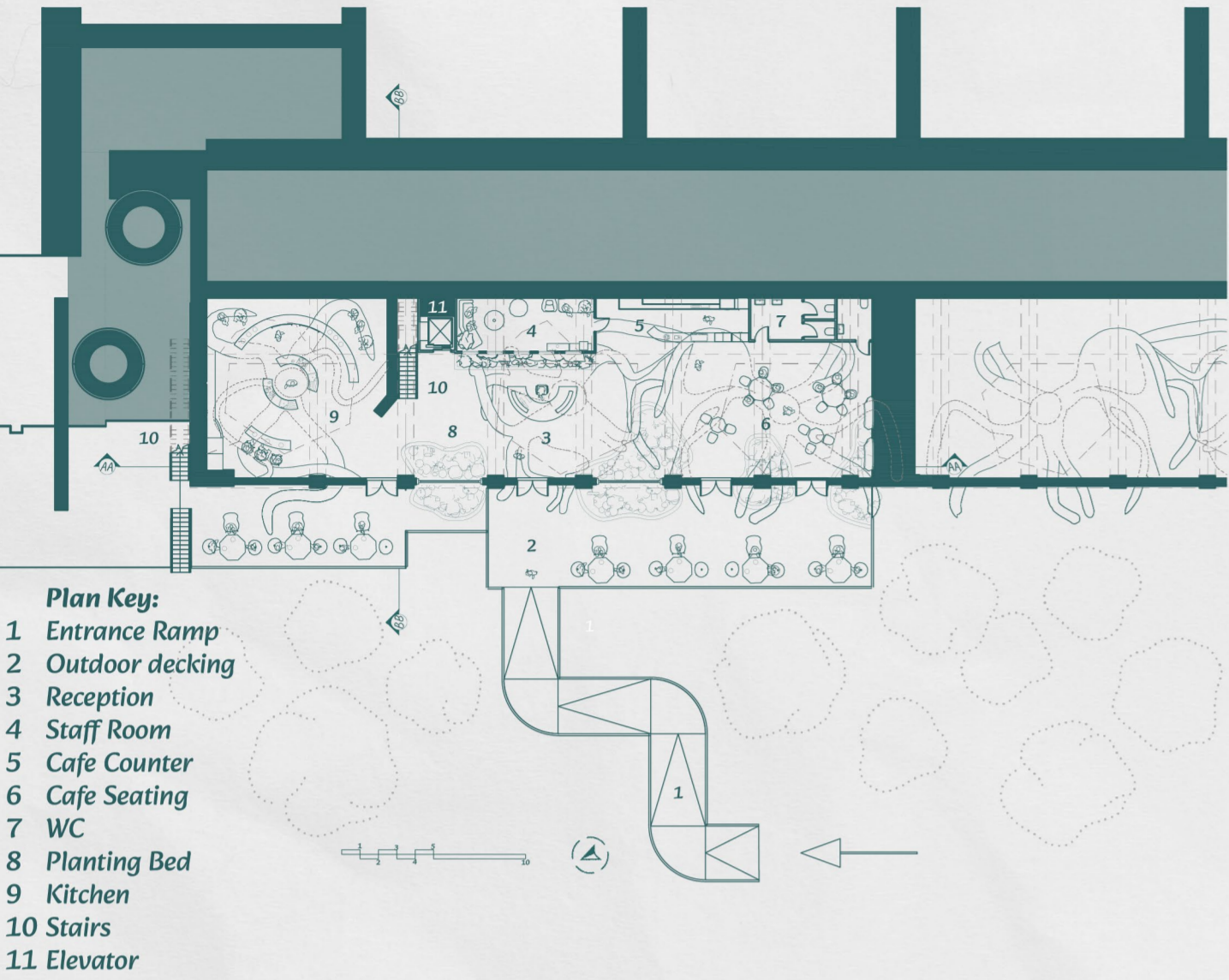
- 1 Clayworks - Finish: demi rustic
Colour: WHI-03
- 2 Clayworks - Finish: Sculpted Relief
Colour: WHI-03
- 3 Smile Plastics - Colour: Grey Mist
- 4 Clayworks - Finish: demi rustic
Colour: GR-03
- 5 Resilica - Recycled Glass, product S-0128
- 6 Original Brick
- 7 Original Concrete Floor
- 8 JoSawMills - Sweet Chestnut Wood
- 9 Planting beds

To ensure this project is climate conscious, existing materials of the site have been maintained where possible. This alongside responsibly sourced materials is a highly sustainable approach to the materiality of the project.



Level 0 Floor Plan

Public facing areas are on this level along with services such as the kitchen, reception, cafe and WC.



Cafe Counter serving organic food and drink.

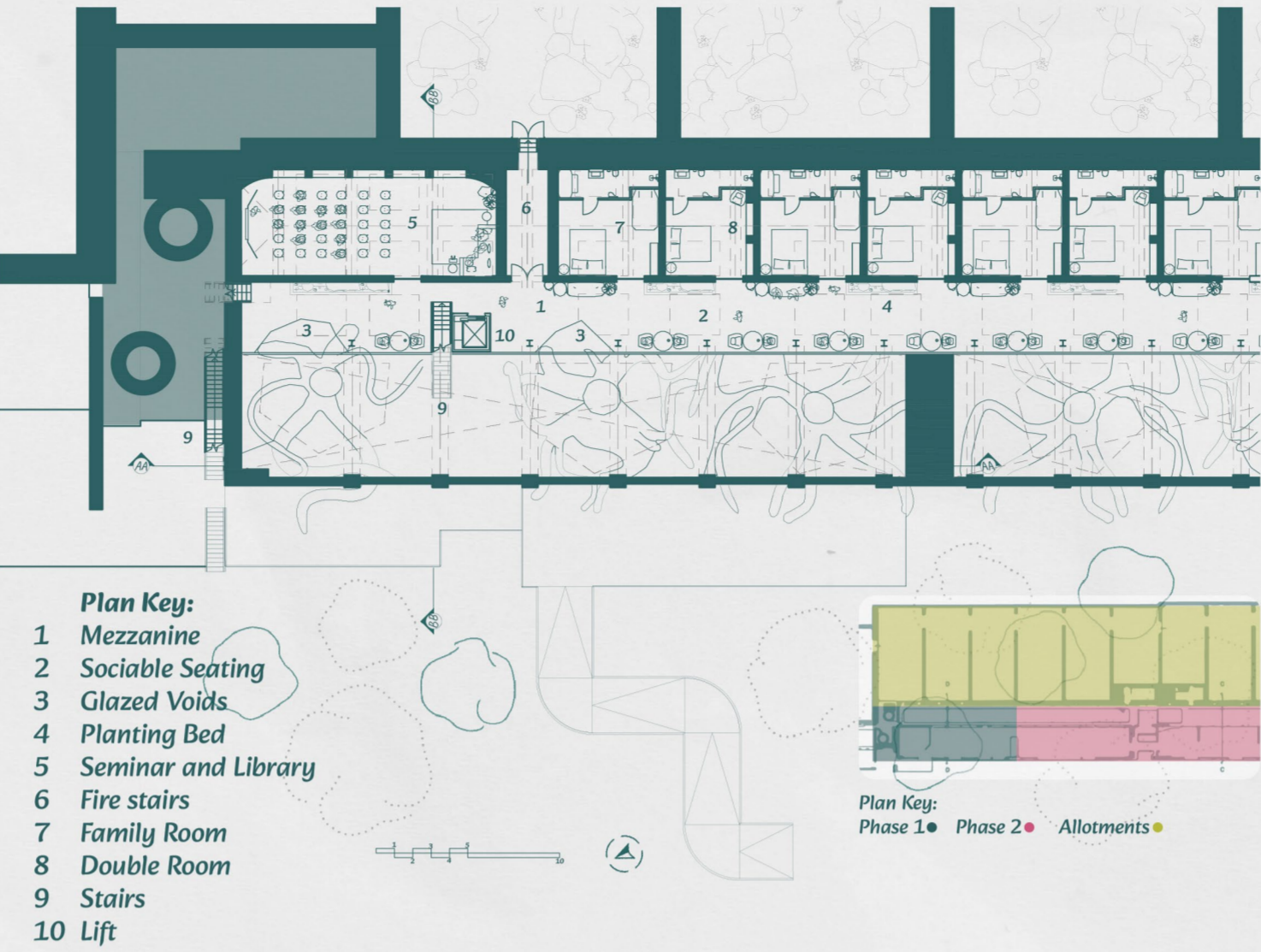


Library, users can read books on ecology and sustainable living.



Level 1 Floor Plan

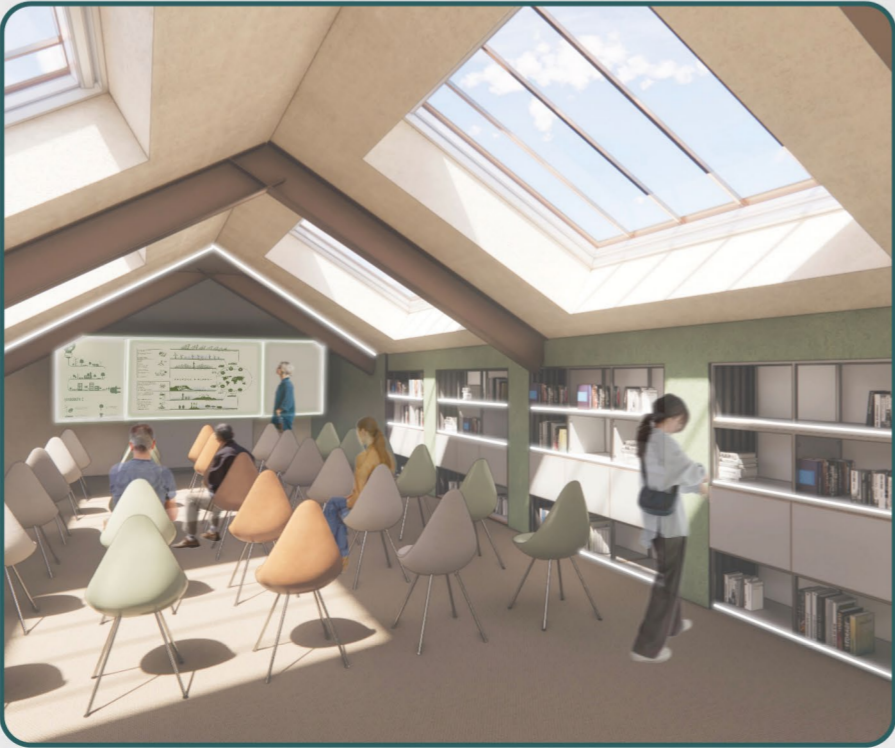
Residential rooms and educational spaces can be found on level 1. The mezzanine floor overlooks the root structures below.



Original chimneys with seating on the outside and cooking grills on the inside.

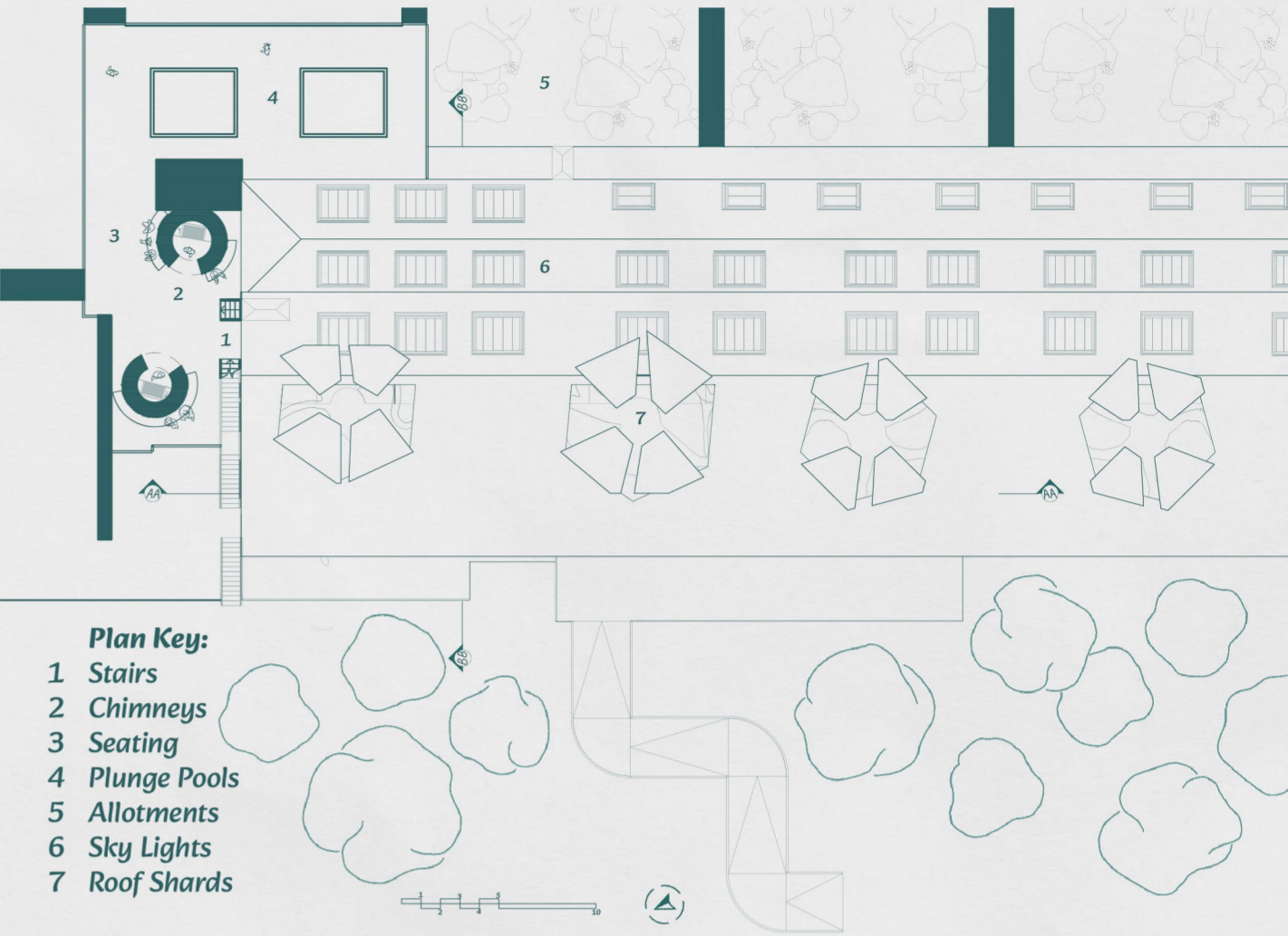


Seminar room, where users can attend lectures on healthy eating and the environment.



Level 2 Floor Plan

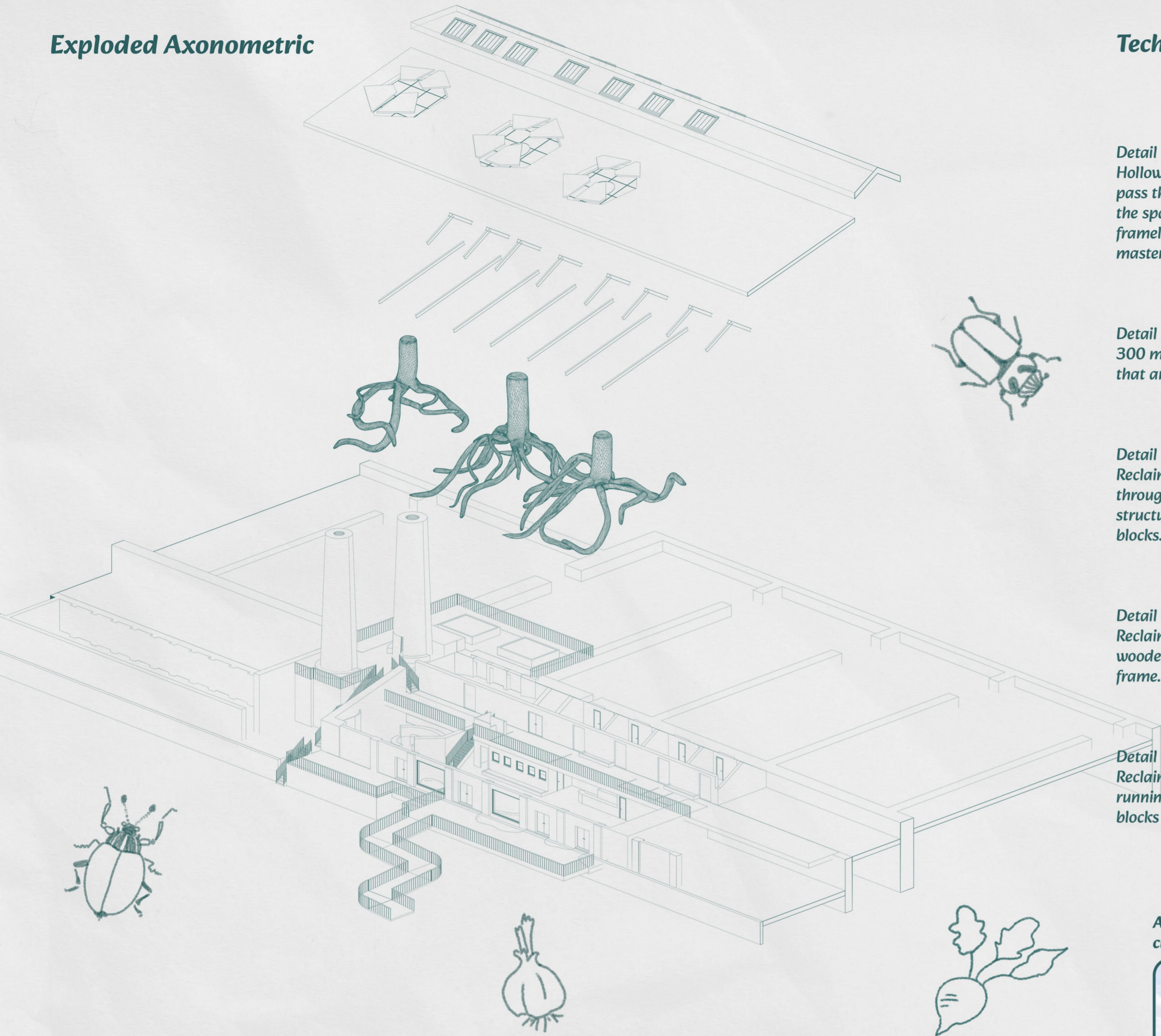
On Level 2 are the outdoor spaces such as: allotments, chimney grills, seating and natural plunge pools.



Short Section - BB



Exploded Axonometric



Technical Section - Tree Detail

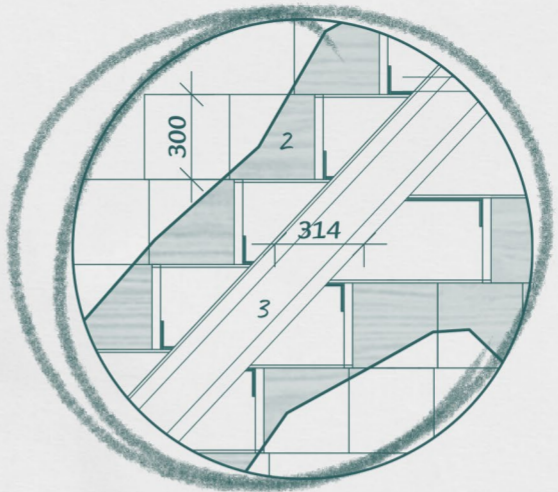
Detail 1 : Sunlight funnel.
Hollow pathway for natural light to pass through, bringing sunlight into the space from above. Glazed with frameless glass and featuring a Sola master, to amplify natural light.

Detail 2 : FSC Wooden blocks.
300 mm x 300 mm wooden blocks that are CNC cut into organic shapes.

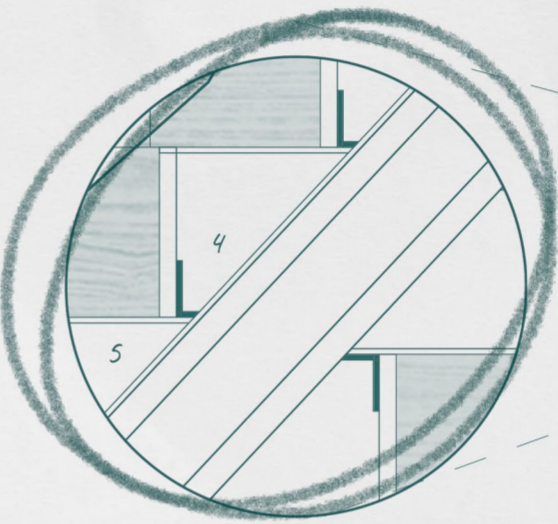
Detail 3 : Primary Steelwork.
Reclaimed steel armature running throughout the inside of the tree structure, supporting the wooden blocks.

Detail 4 : Secondary steelwork.
Reclaimed steel fixtures attaching the wooden blocks to the primary steel frame.

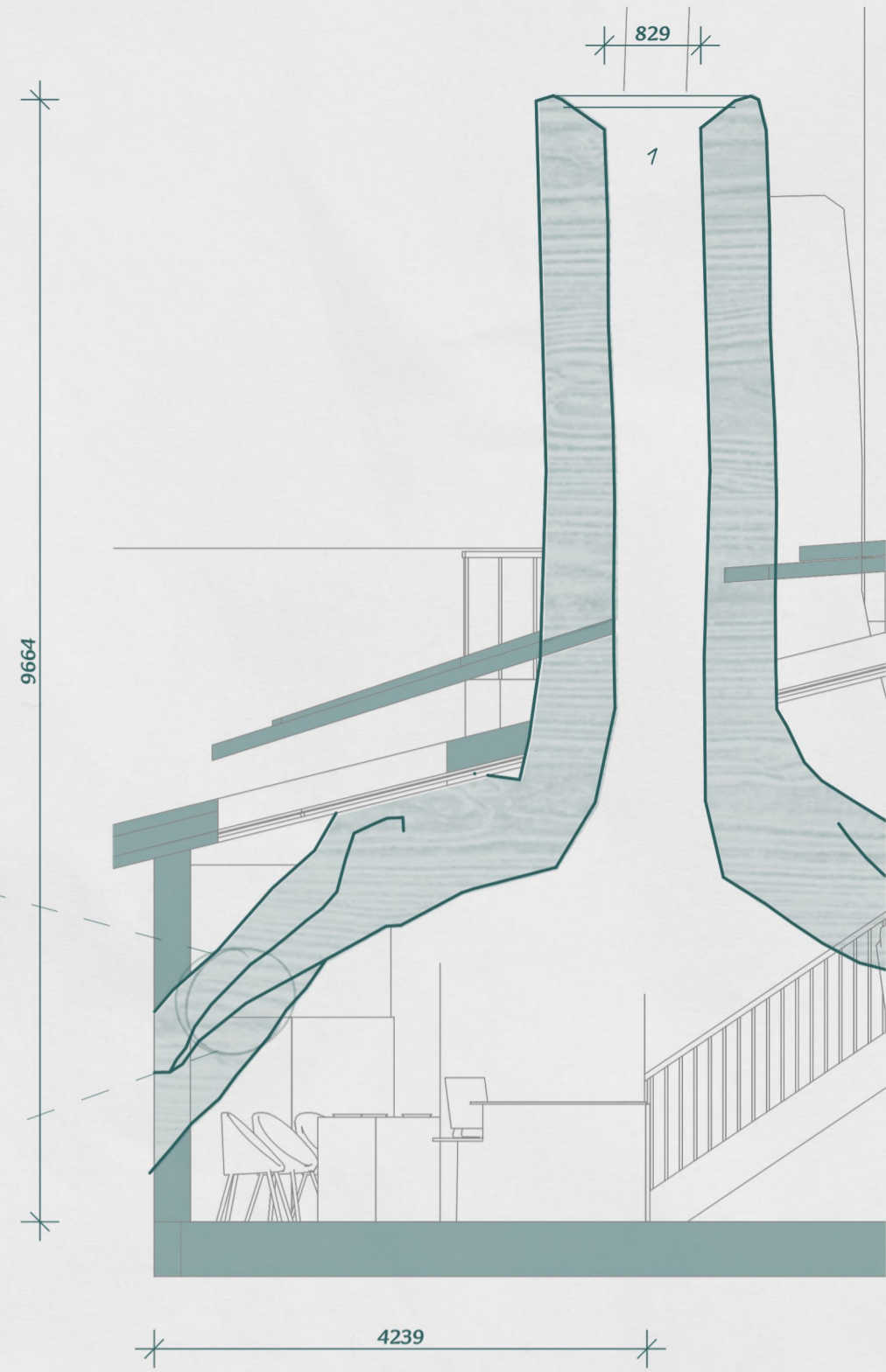
Detail 5 : Shelving.
Reclaimed steel support shelving running underneath the wooden blocks to hold them upright.



Internal View



Close Up View



Users

The vegetarian

Wants to be vegetarian but can't maintain a balanced diet.

The cook

Loves to cook and wants to have a more sustainable repertoire.

The family

Wants their children to learn about nature.

The foodie

Enjoys eating out and wants to explore sustainable options.

The activist

Wants to reduce their personal carbon footprint.

Allotments where users grown their own fresh produce to then cook in culinary classes.



Roof Shards that allow the trunks of the roots to burst through the roof, letting natural light into the space.

