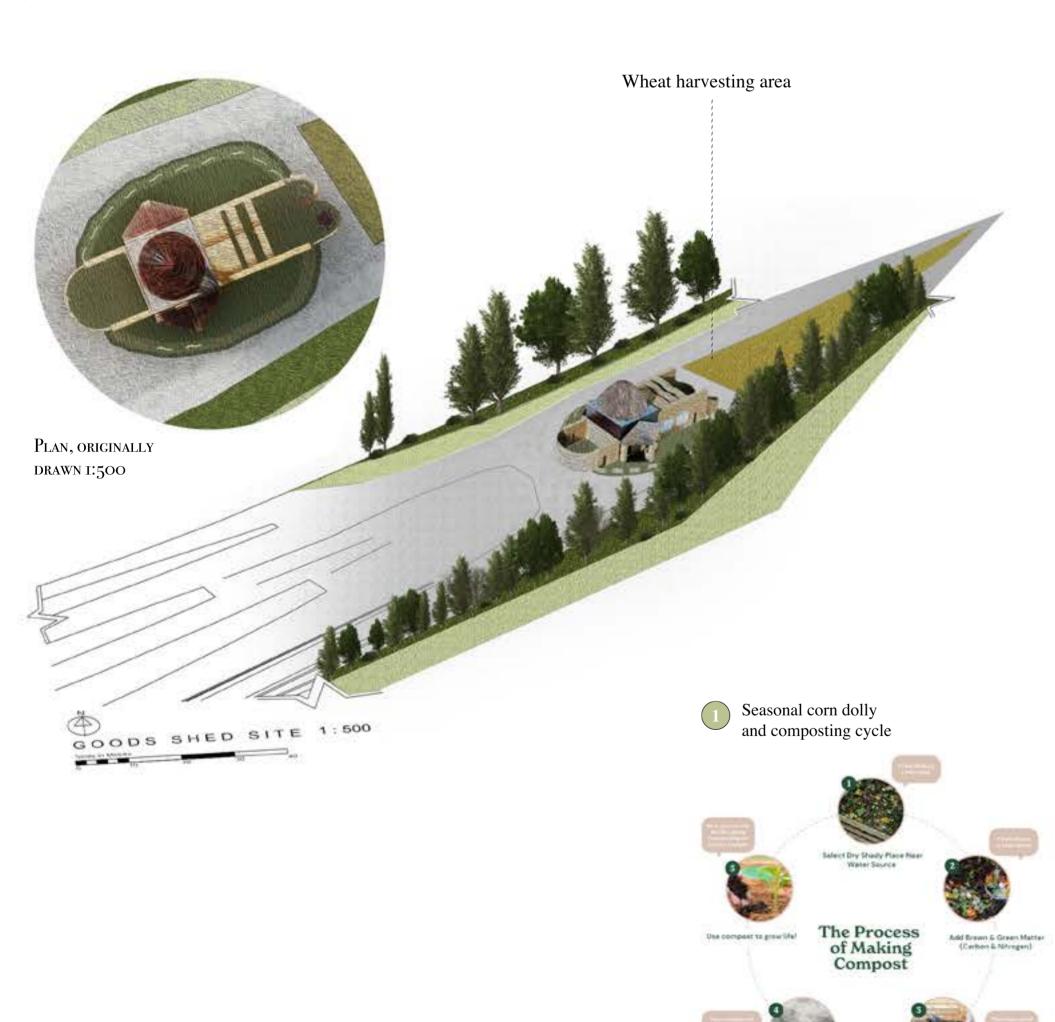
About:

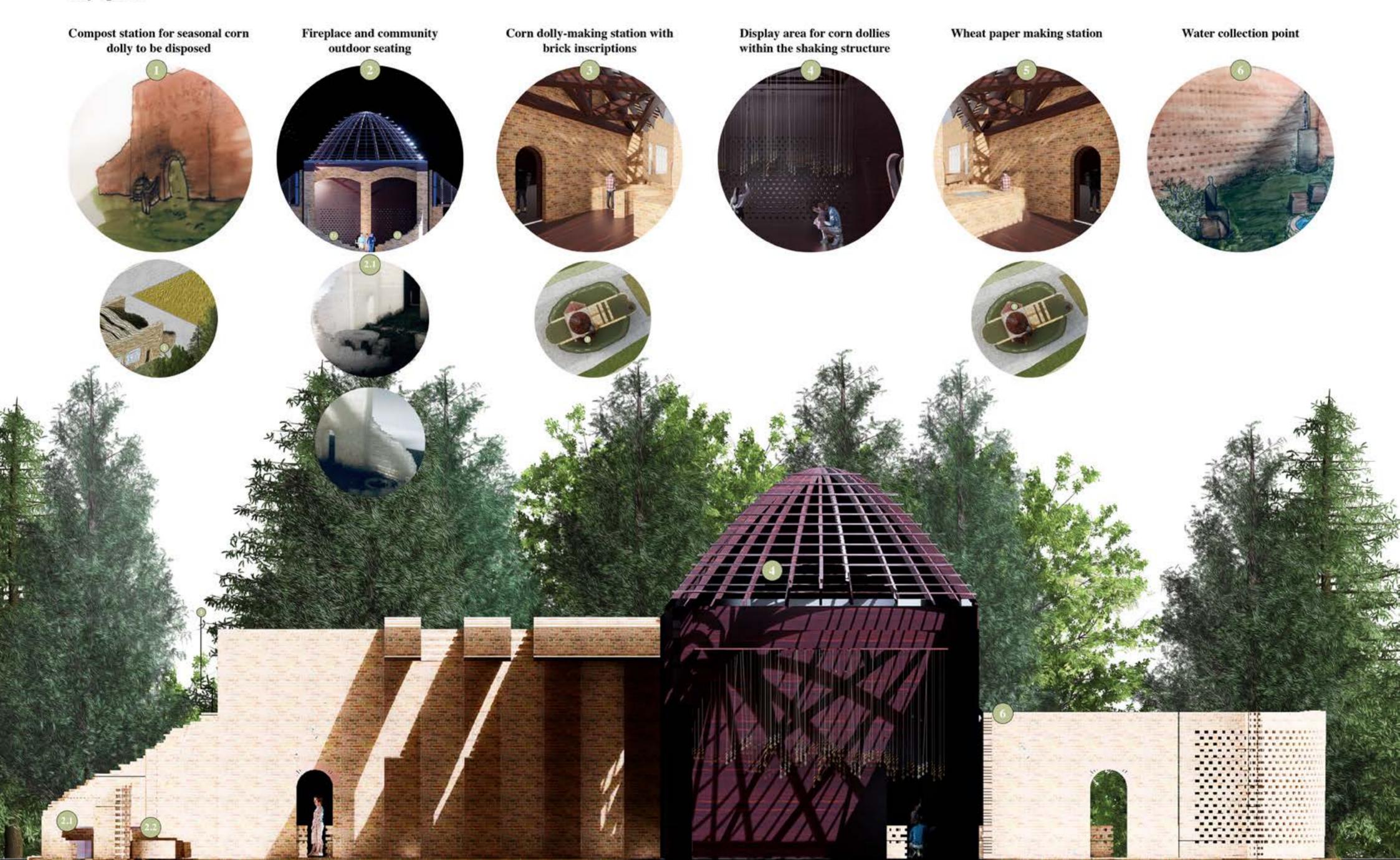
A living museum shaped by butterflies, ritual, and return. Corn dollies are made, displayed, then transformed into baked goods. Brick walls breathe. Seasons turn. Rammed chalk with seeds dissolves back into chalky soil. This is a space of memory and transformation, where nothing stays still, and everything shifts in rhythm with the seasons.



Cycles and Each segment symbolises a season Seasonal corn dolly with a specific plant, aligned with the **Transformations on** cycle and movement original structure's cardinal points. the Site Brick columns offer tactile instructions for making corn dollies, guiding users through the seasonal progression. Key: Winter Glory Seasonal corn dolly and composting cycle Wheat paper cycle Transformation of North area that the the Corn Dolly North column sits in Memory Cycle Iris Pseudacorus Water Collection segment Cycle Autumn segment East area that the East column sits in West area that the Spring West column sits in segment Sweetgrass South area that the South column sits in New Zealand Flax



Key spaces



Ecology and endangered butterflies

Butterflies are sensitive indicators of biodiversity and climate change. Since the 1970s, their population has declined by 80%. This project actively supports local conservation by utilising plants, materials, and structural forms. The Museum of Shifting Grounds and Grains creates an immersive space that seamlessly blends the indoors and outdoors, allowing humans and pollinators to exist side by side.













Name: Primrose

Supports: Duke of





Name: Horseshoe Ventch Supports: Adonis Blue

Supports: Duke of Burgundy Season flowering: Spring

Burgundy Season flowering: Early Spring

Note: Shaded garden

Supports: Small Blue Season flowering: Summer

brick chalk wall

Name: Kidney Vetch

Late Spring Note: These seeds are used in ther perforated

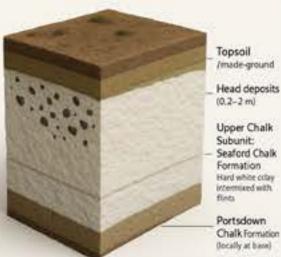
Note: Sunny paths

Season flowering:

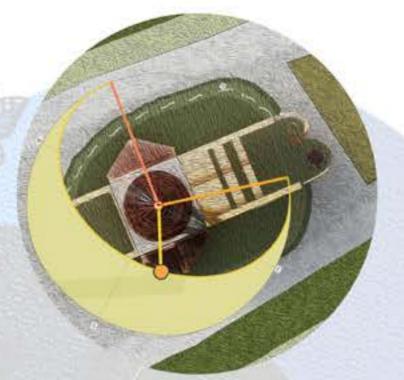
Note: Propergation needed

Name: Cowslip

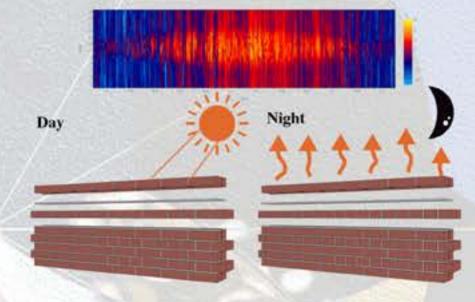
fringes



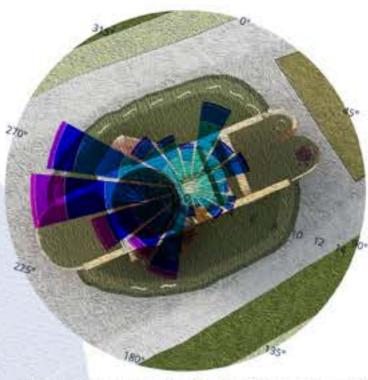
The soil layers in this area provide optimal conditions for all the butterflies depicted above to thrive.



The path of the sun shows that adequate light will reach both the butterfly garden and the cocoon area. Butterflies require a combination of light and shade, as well as moderate warmth from the sun, to emerge.



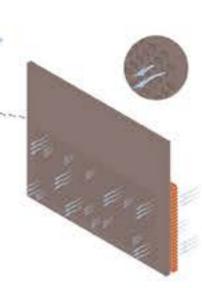
Bricks possess thermal mass, which means that during the day, they absorb and store solar heat. At night, this thermal mass releases the stored heat, helping to regulate temperatures more effectively for butterflies. This improved temperature stability increases the chances of successfully raising butterfly populations. As illustrated in the diagram above, fluctuations in temperature can prevent butterflies from emerging at all.



The wind speeds are significantly higher on the south to southwest side of the structure. To address this, I have designed a curved perforated wall that employs two different techniques to mitigate the winds. This approach is crucial, as high winds can cause butterfly wings to be damaged.



The above illustration depicts the wind path that gently guides the butterflies through the structure.



calm

0.5 - 1.5 m/s 1.5 - 3.3 m/s 3.3 - 5.5 m/s

> 5.5 - 7.9 m/s 7.9 - 10.7 m/s 10.7 - 13.8 m/s 13.8 - 17.1 m/s

17.1 - 20.7 m/s

>20.7 m/s

This perforated wall designed to gently direct butterflies through the structure.

Light guiding system



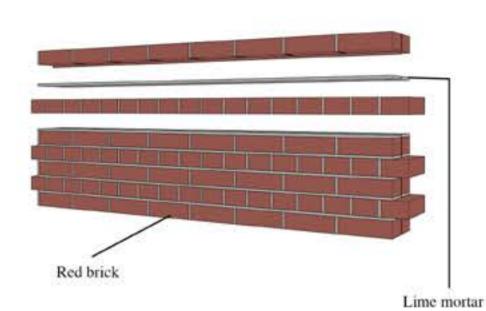
The shaking space is quite dark, allowing warm lights to be placed inside. This creates a more inviting environment for butterflies and helps them navigate. As the butterflies enter the structure, the tunnels gradually become lighter. Like moths, butterflies naturally gravitate towards the light.





Materials





I have reused all of the bricks from the original site because they are built with lime mortar, which can be removed easily.

Material Making Process

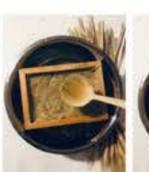
Wheat paper













Wheat Paper Making Station

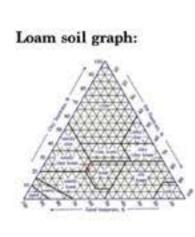


Material Tests

Cob soil test











The perforated brick wall surrounding the structure contains rammed chalk embedded with seeds. This design allows the seeds to be dispersed while returning the chalk to the soil. I chose rammed chalk because butterflies prefer alkaline soil, and it dissolves easily. As the rainwater permeates the wall, it continually replenishes the ground with chalk, creating an ongoing source for seed dispersion around the structure.

Cob Making Process











Rammed Chalk with Seeds: Making Process







Rammed Chalk, added Earth, Sand, Clay and Seeds: **Making Process**





Life cycle for all three materials

Final Materials and Tests







I have chosen to use rammed chalk with seeds embedded, returning the chalk to the alkaline soil in which these butterflies and caterpillars thrive.

HTTPS://www.youtube.com/shorts/iHAQS8JQOUc HTTPS://YOUTU.BE/PH4LDI4NIXM?SI=2DIFLI5GBWCDOEIZ

