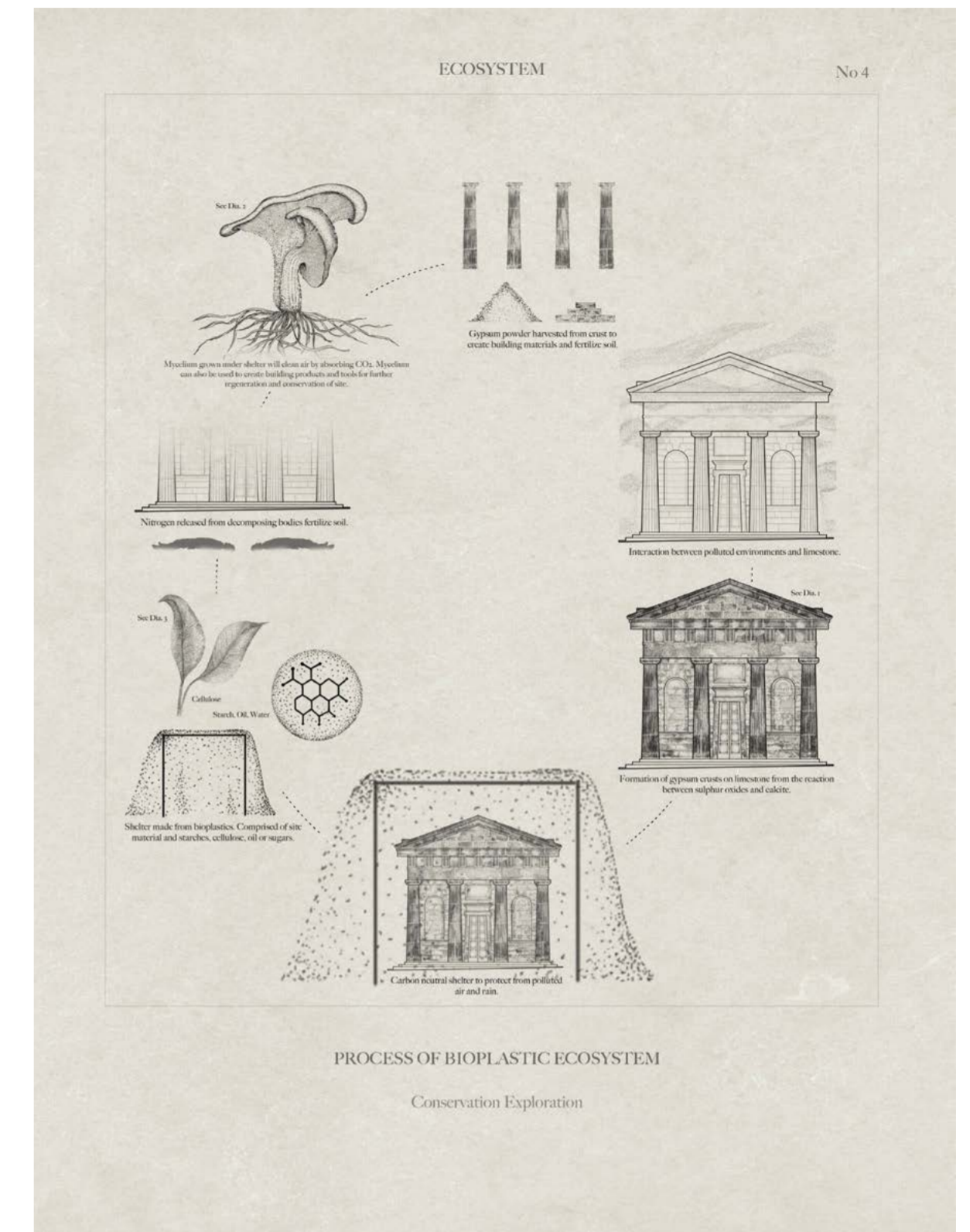




RITUAL



EXPLORING MATERIALITY AND FORM THROUGH MAKING



BIOPLASTIC
Cornstarch
Water
Vinegar

GYPSUM PLYNTH

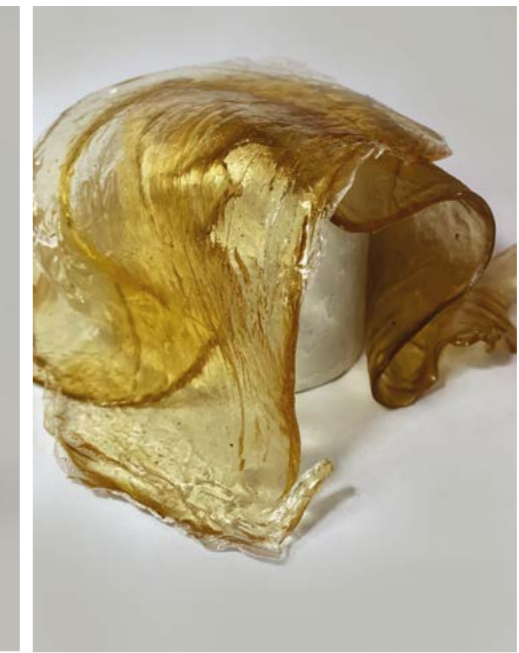


MYCELIUM REGROWTH
Mycelium substrate can be pulled apart and grown on, using the same original mushroom to create more material. Growing can also be stopped by heating, so there is control over the process. Every material used in the project is strong, durable, yet able to be disposed of in a sustainable way, enriching the earth as it decomposes.

"From every ruin, life springs up again and everything that dies is born again."
- Isabelle Eberhardt



BIOPLASTIC
Gelatine
Glycerine
Water

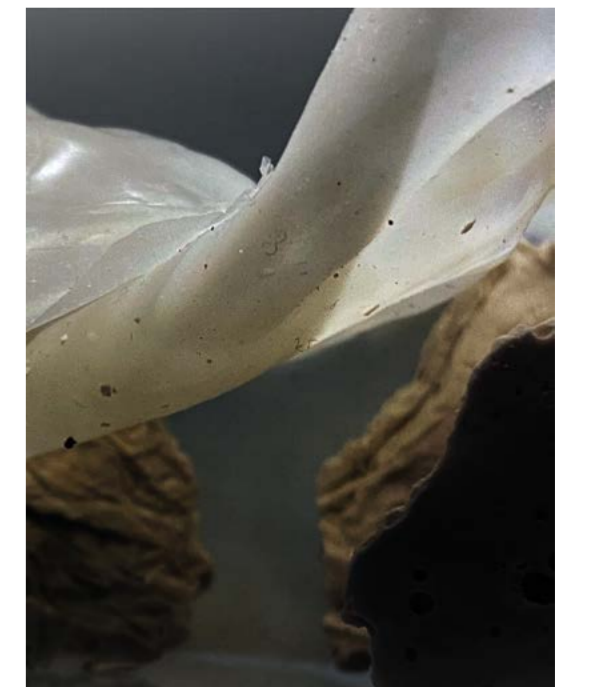


PLINTH
Gypsum
Water

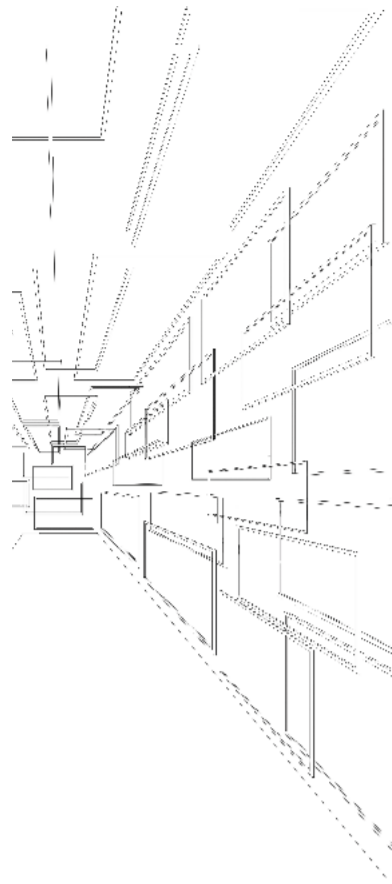


BIOPLASTIC MOULD
Gelatine
Water
Glycerol

Bioplastic needs to be kept in a ventilated area to avoid mould. Is it possible to place in an purposeful environment to inhibit a specific life form?



DRAPING
Testing capabilities of material



COMPOSITION
Sketch over found image // Perspective drawing around chapel

Underground, the crypt space are full of mycelium slabs, the bodies are laid upon them, the mycelium will grow on top of the bodies and feed on the organic matter, in the process, the nutrients and nitrogen from the corpses will enrich the soil.

The walls are lined with soil, enabling the upper floor plantings to be enriched with the nutrients of the bodies without having to have corpses in sight.

Gypsum harvested from the exterior crust on the chapel is used as a fertiliser to aid the mycelium growth.

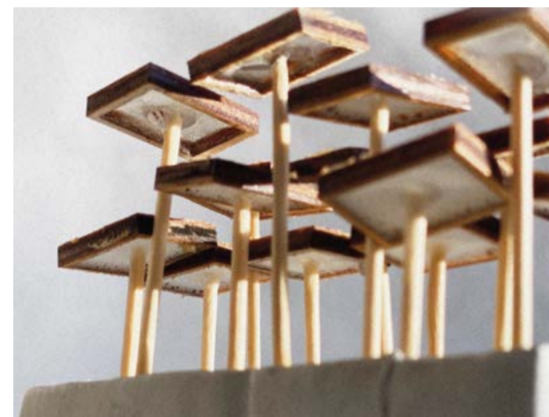
The 'stoker' is in charge of keeping the fire going, using wood from the surrounding trees. He is also in charge of mixing the 'bioskin' when it is in its heating stage.

The 'moulder' is in charge of pouring the 'bioskin' mixture into the mycelium moulds, and patching up any repairs, he will also collect any waste scraps of bioplastic in order to recycle them later.

The 'shroomer' is in charge of general care of the mycelium, fertilising with gypsum, and growing on chunks that are in need of repair.



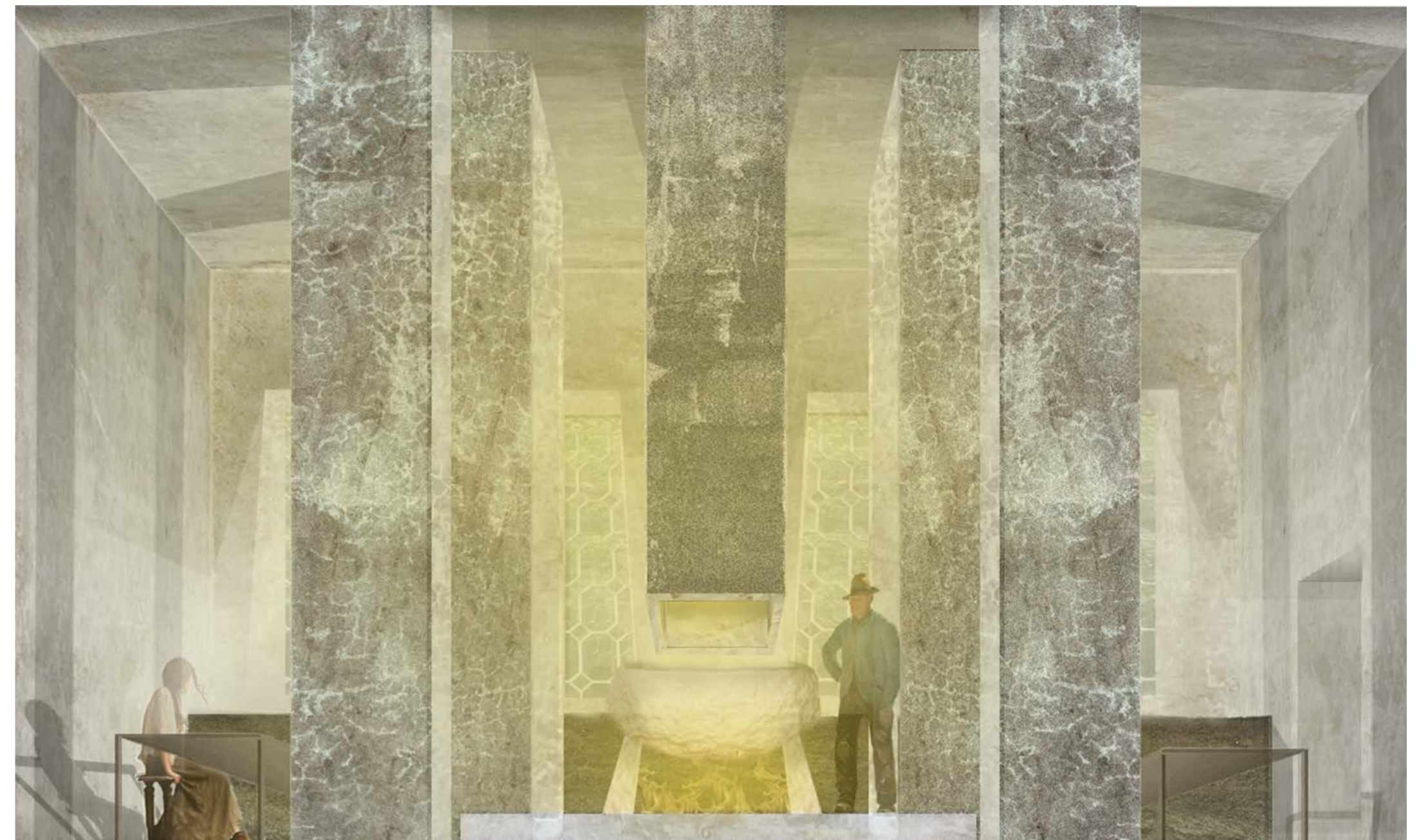
MODEL ELEVATION



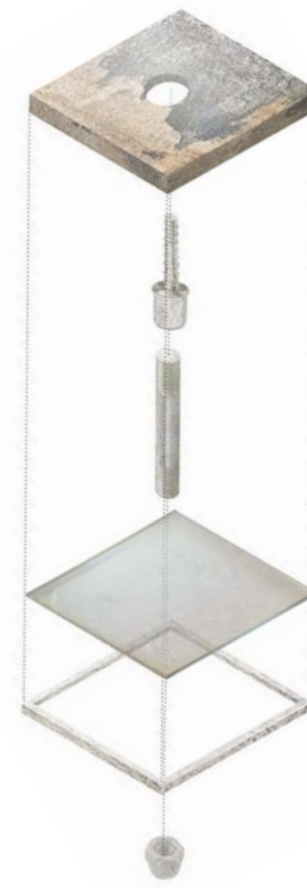
BIOSKIN "CAVE" GRAVESTONE

- Gelatin
- Water
- Glycerol
- Organic Matter

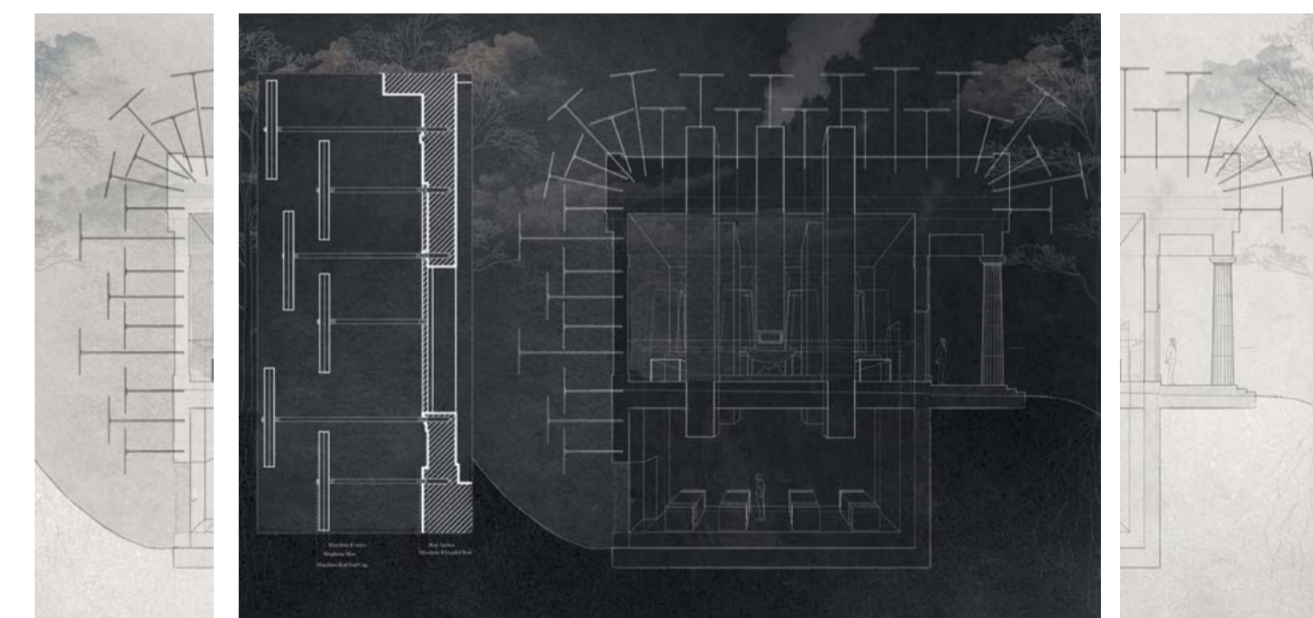




Upper floor: Workshop space with central fire pit and chimney, used to heat bioplastics which is required when making. Walls from top to bottom are filled with compost enriched with the nitrogen released from decomposing bodies, used to grow on mycelium. Underground is dark with chimneys letting in some daylight, mycelium needs darkness and airflow to thrive and grow on. Drainage channels either side of the chapel to collect rainwater which is used to provide moisture to the walls, again, needed for mycelium to succeed.



ASSEMBLY / ELEVATION



SECTION DETAIL DRAWING
1:100
Frames placed in relation to key parts of the chapel, i.e the columns, windows, roofline

OUTSIDE CHAPEL

Design of framework allows for simpler repair work and deconstruction when necessary. It allows for airflow and light to inhibit growth of pollutant cleansing mycelium..