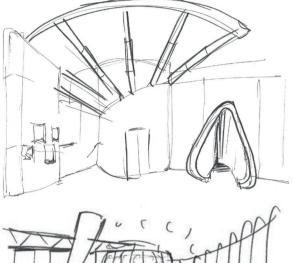


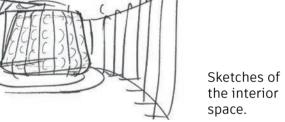
AN EXHIBITION OF A SUSTAINABLE FUTURE BY CATRIONA FRASER



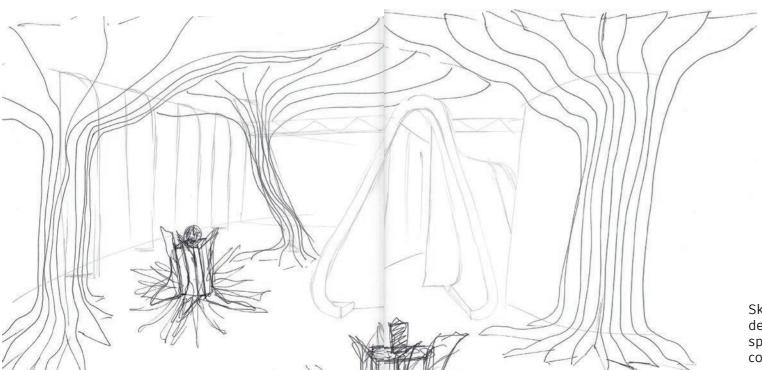
BRIEF: To design a temporary exhibition which will draw attention to the issue of global plastic waste, incorporating interactive elements to create an impressive environment which will help highlight the severity of this issue.

FOCUS: To raise awareness of the use of fungi in the fight against plastic waste. This exhibition embraces scientific advancement and uses it as a tool to reassess how we design spaces to reflect a sustainable future, with the aim of creating a more positive outlook on the topic of sustainability within society. This exhibition will present the findings of this new tool in the fight against the climate crisis in a way that feels less daunting and more exciting, hopeful for a brighter future.









Sketches of

the fungal

forms that

will inspire

this space.

Sketch of developing spatial concept.

Sketch of initial concept

design.

Location plan of Dynamic Earth.





TOPIC: This exhibition will focus on a new innovation which harnesses certain enzymes in types of fungi which can break down plastic into organic compounds. This tackles the reduction of existing plastic waste while also providing a new food source for a growing population.

RESEARCH: In my research I looked closely at the work of designers and researchers form Livin Studio and Utrecht University who have developed a 'Fungi Mutarium' which allows for the process of breaking down plastics in one facility. There are currently four known strains of fungal enzyme that are capable of degrading plastic compounds, with research ongoing into more, so we can now consider a very real future wherein this technology could be as common as a microwave in any kitchen. This exciting new innovation raises the possibility of being able to turn our plastic waste into food in a domestic setting. This systems is, as yet, however, not in use in the public domain, however, bears exciting possibilities as to the application of this type of technology in both large and small scale settings.

SOLUTION: Through my exhibition, I hope to prove the validity of this process, and create a sense of trust in it, as a way to manage plastic waste whilst feeding a global population of 8 billion.

Images (left) courtesy of Livin Studio.



















THE STORY: In this exhibition I wanted to create the impression of walking into another world where the future of plastic waste is a captivating, hopeful place. Visitors will have the experience of walking through their salvation, a forest of mushrooms that have the potential to eliminate plastic waste whilst creating a new food source.

REFERENCES: I was inspired by images that showed a significant contrast between light and dark, that gave the impression of a ray of hope in the dark. I also looked for ways to use light to create the impression of layers. I felt that this could be a perfect element of the space in which to reflect the repeating nature of the polymer strands of plastic as well as the structure of mushrooms themselves.

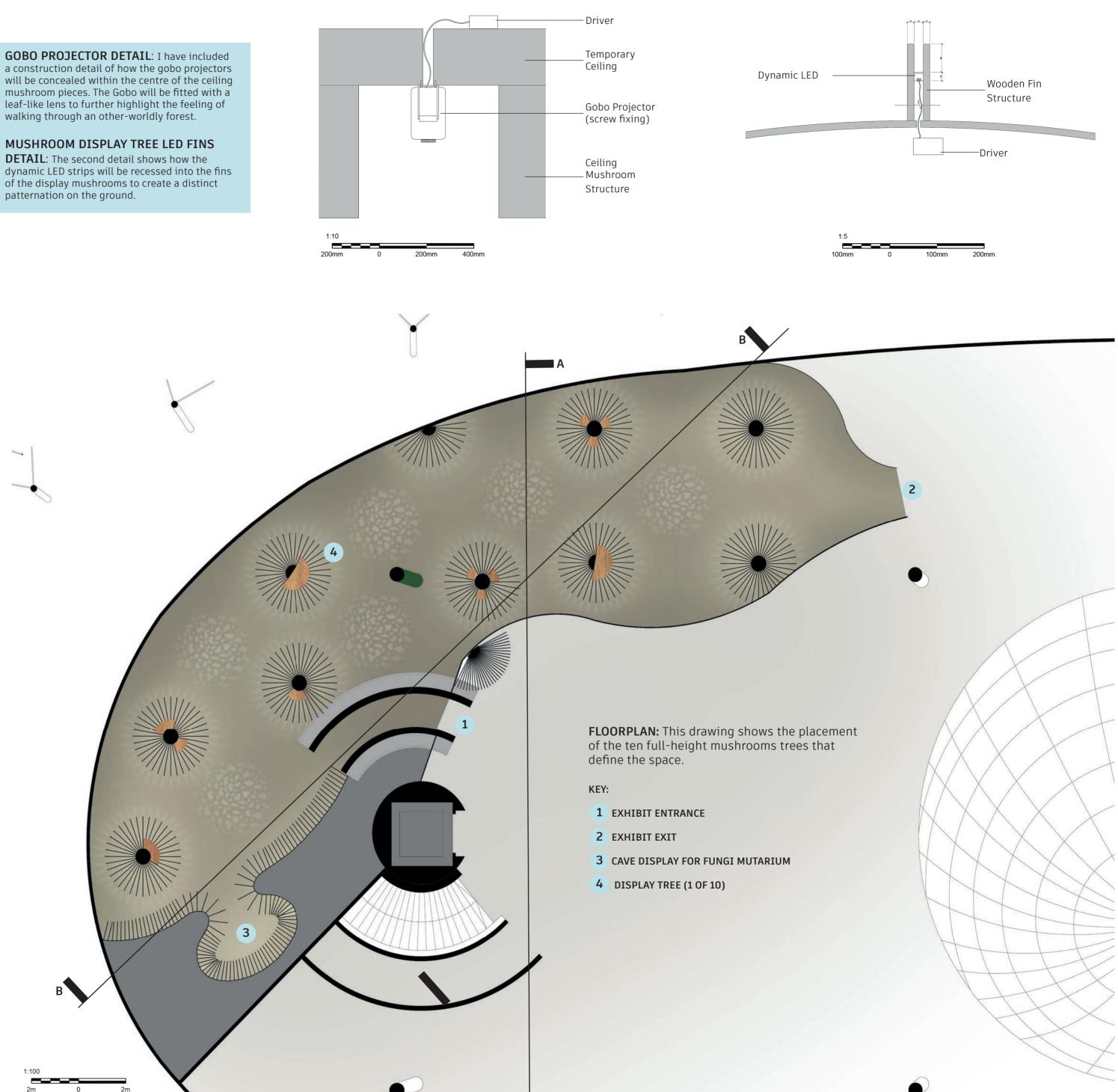


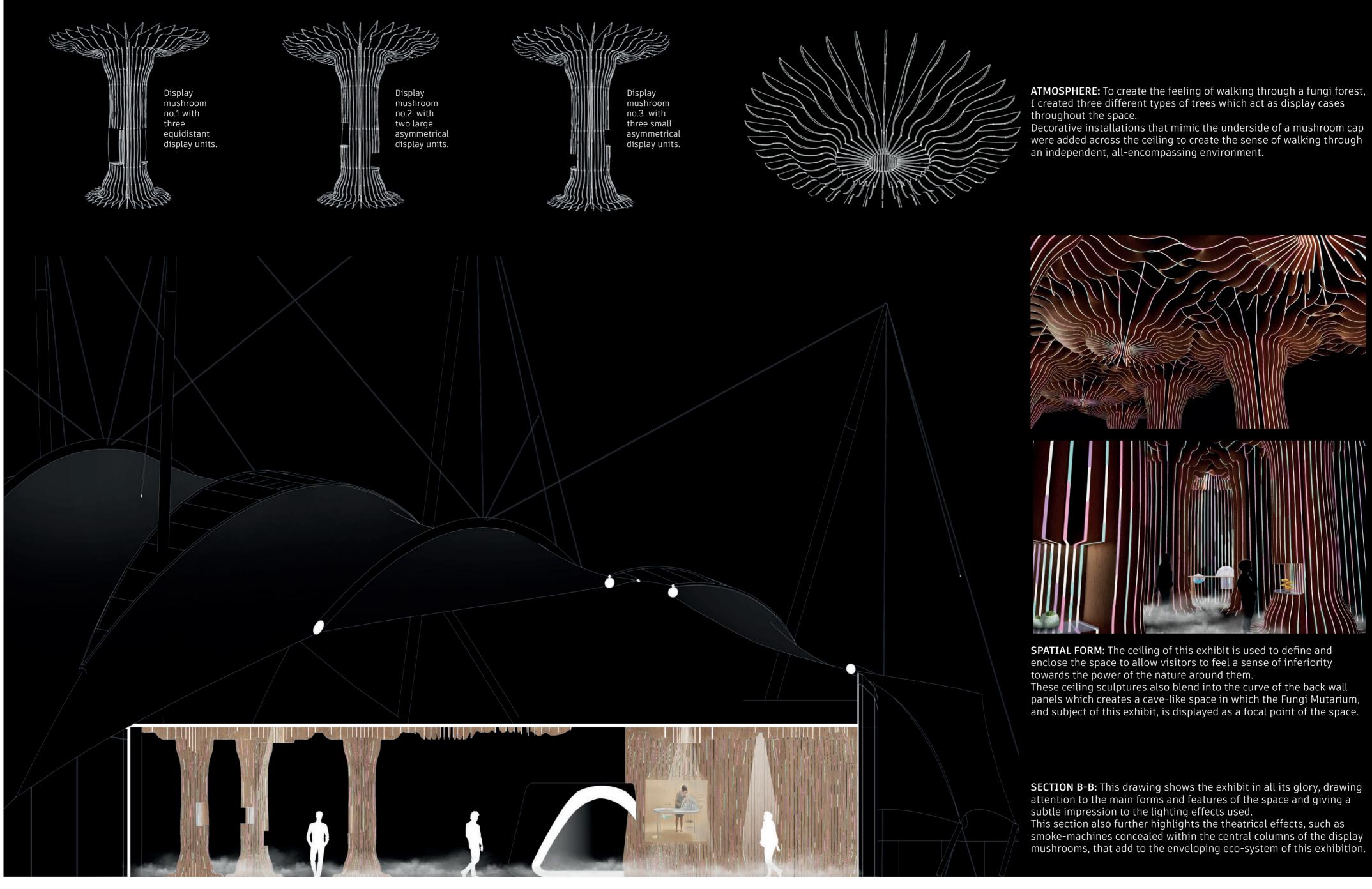
MODEL PHOTOGRAPHY: These images give a perspective of the exhibition space which is more grounded in reality and, alongside the floorplan and section, provide a more practical viewpoint.

GOBO PROJECTOR DETAIL: I have included a construction detail of how the gobo projectors will be concealed within the centre of the ceiling mushroom pieces. The Gobo will be fitted with a leaf-like lens to further highlight the feeling of walking through an other-worldly forest.

MUSHROOM DISPLAY TREE LED FINS

dynamic LED strips will be recessed into the fins of the display mushrooms to create a distinct patternation on the ground.





Section B-B: Showing the space as a whole

