VertiFarm

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Produce a food production centre for the year 2050 as a solution to the growth in population and rise in food demand. Divide the building into 3 areas, food production, selling and educating focusing on a specific area of food production or farming. All the while taking into consideration the narrative of the exisiting building and its surroundings.









Concept Approach

By 2050 demand for meat will have doubled, resulting in the growth in demand for livestock farming. However, with plant based diets becoming more popular, by 2050 more of the population will have stopped eating meat. Therefore a environmentally friendly and sustainable solution to the increase in plant based diets is vertical farming.

The Nutrient Film Technique farming system involves a constant cycle of water, feeding the hydroponic plants. Vertical farming requires less landscape, less water and less power, resulting in a decrease in carbon dioxide emissions. Create a space that informs and educates the visitors about the benefits of plant based diets and vertical farming. While also providing them with the experience of picking their own produce, that act as biproducts for other foods.





Floor Plans and Sections



Retail Space

Entrance/Exit



Vertical Louver Detailing

Short Section

Platform and Louvers

Exploded Axonometric

NOT TO SCALE

