

# Portfolio

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RIBA Part 1 Architectural Assistant

Work from : Year 1 / Year 2 / Year 3

Mackintosh School of Architecture, GSA

Bachelor of Architecture

## Year 1 : FYE CO-LAB 1

### Being Human - Different

[One month group project]

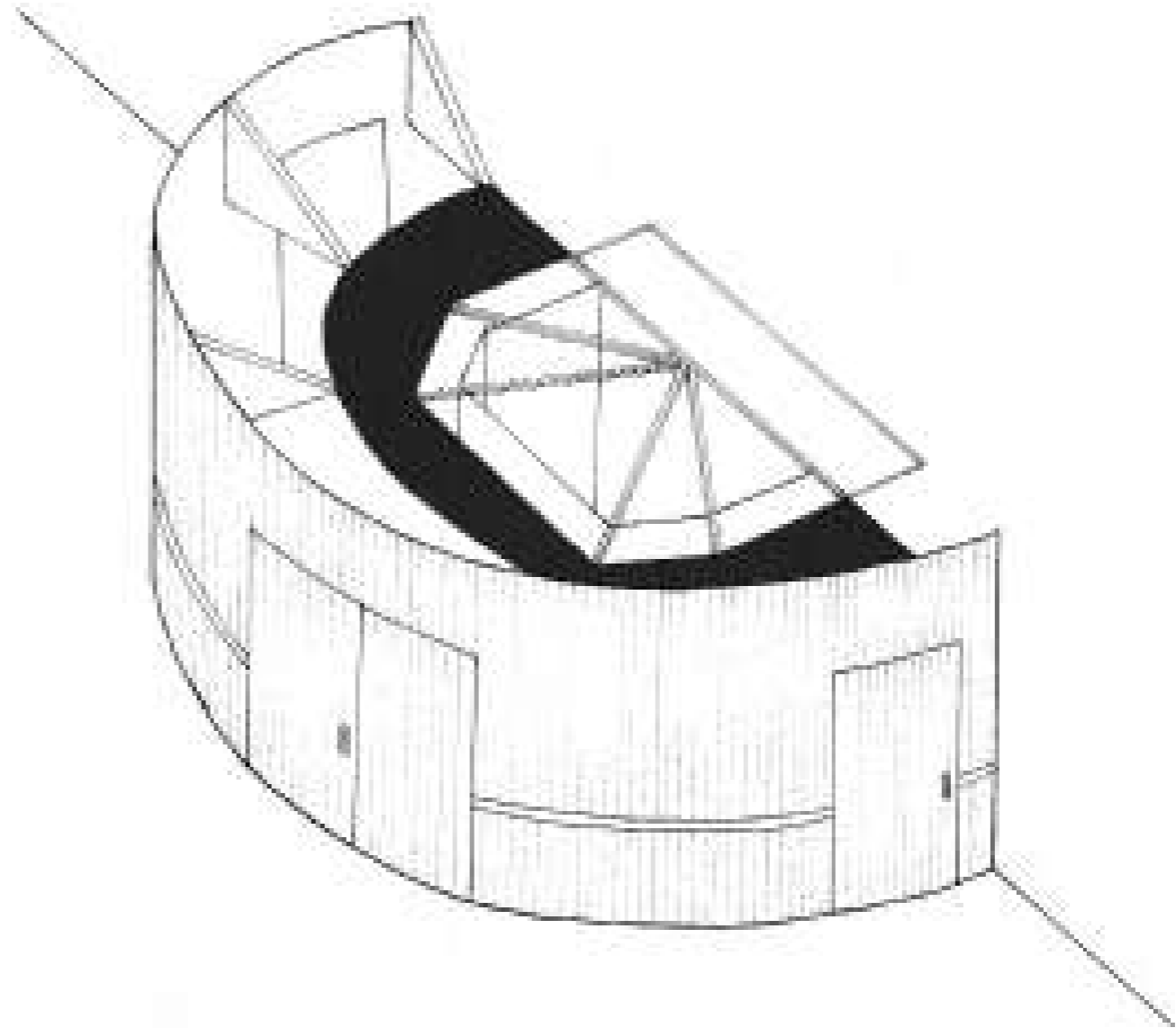
My team and I designed a music practice and performance space for the visual and motor impairment. Our design focus on making a delightful public space, yet private and safe haven for the clients. We has chosen the site to be at the Glasgow Botanic Garden as it's safe and we want to use music as a tool to attract and interact with people.



Character Drawing: Visual Impairment

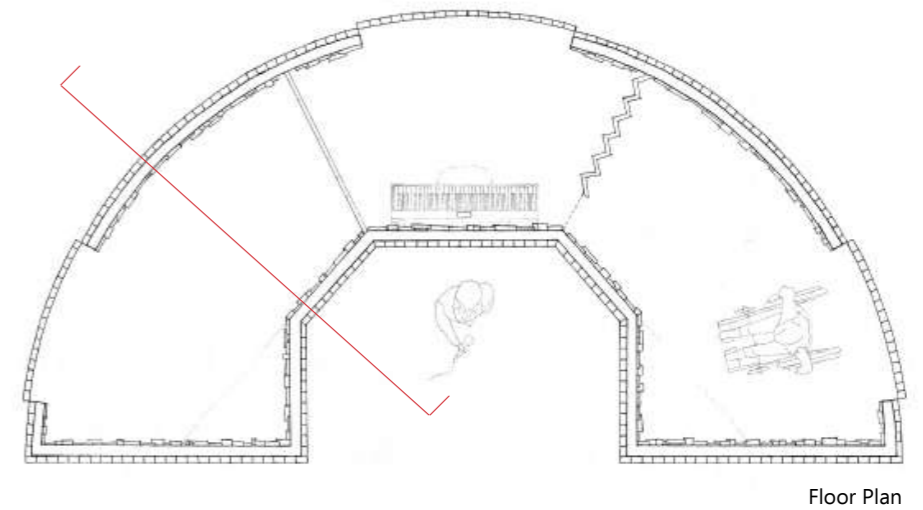
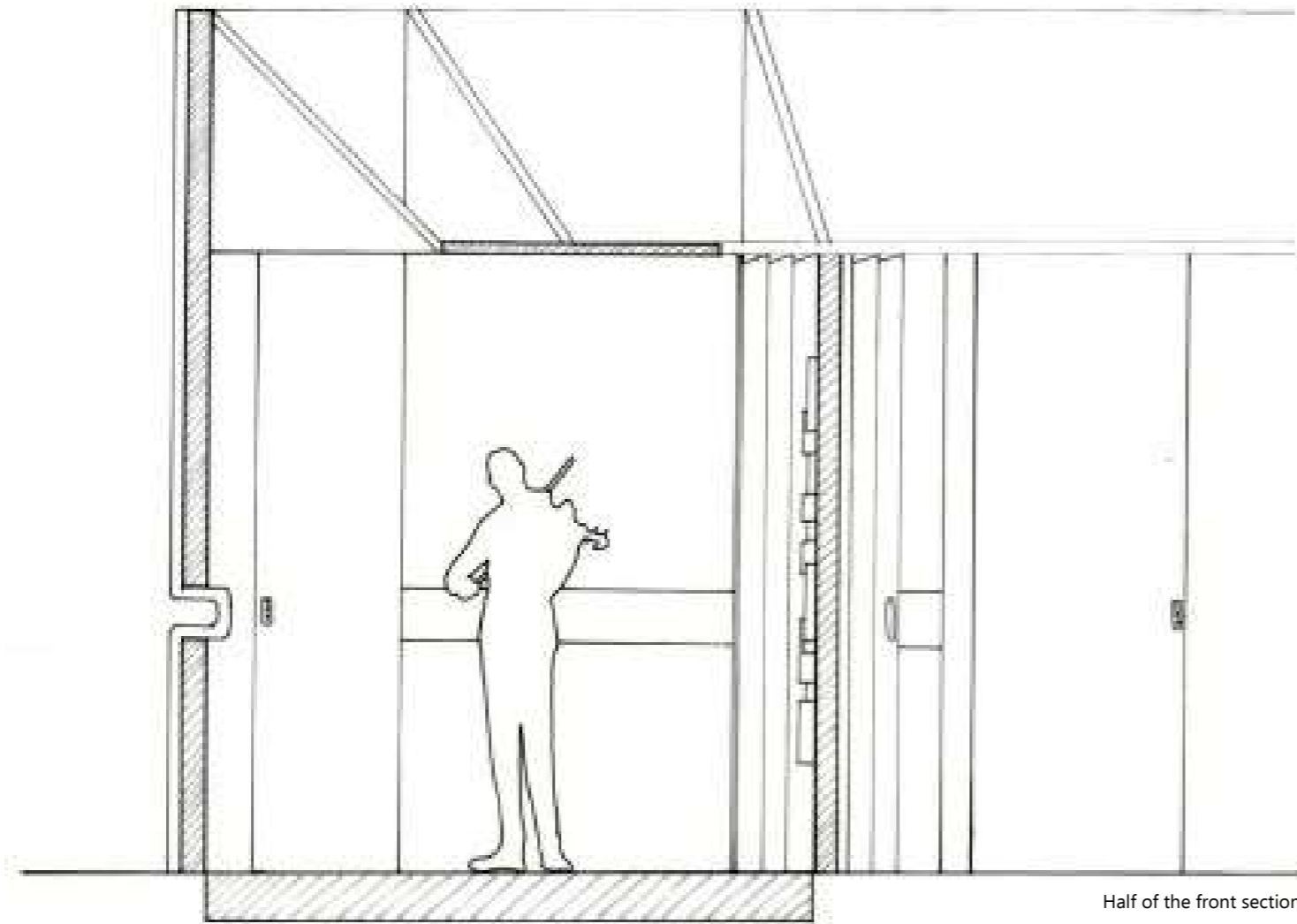


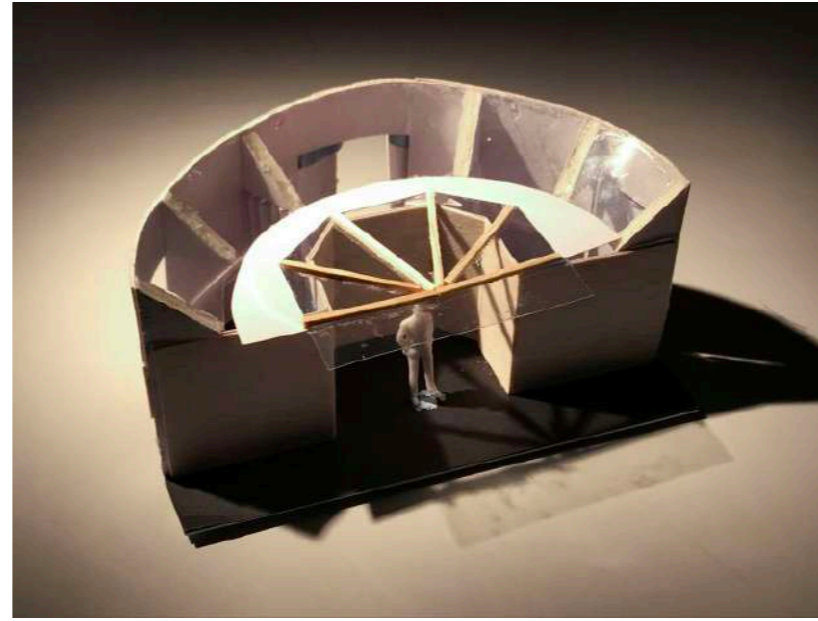
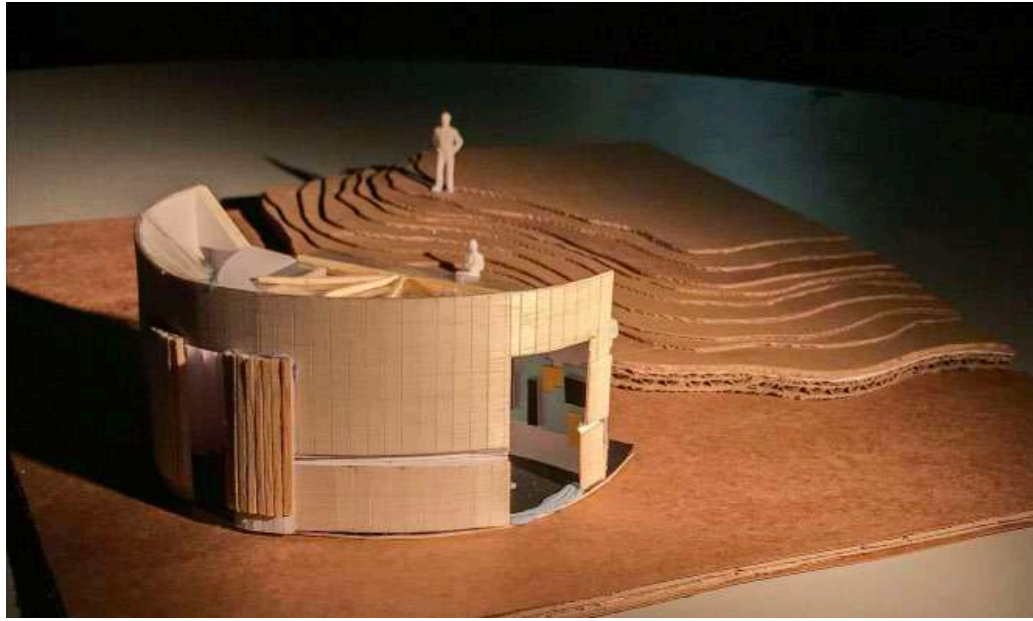
Location: Glasgow Botanic Garden



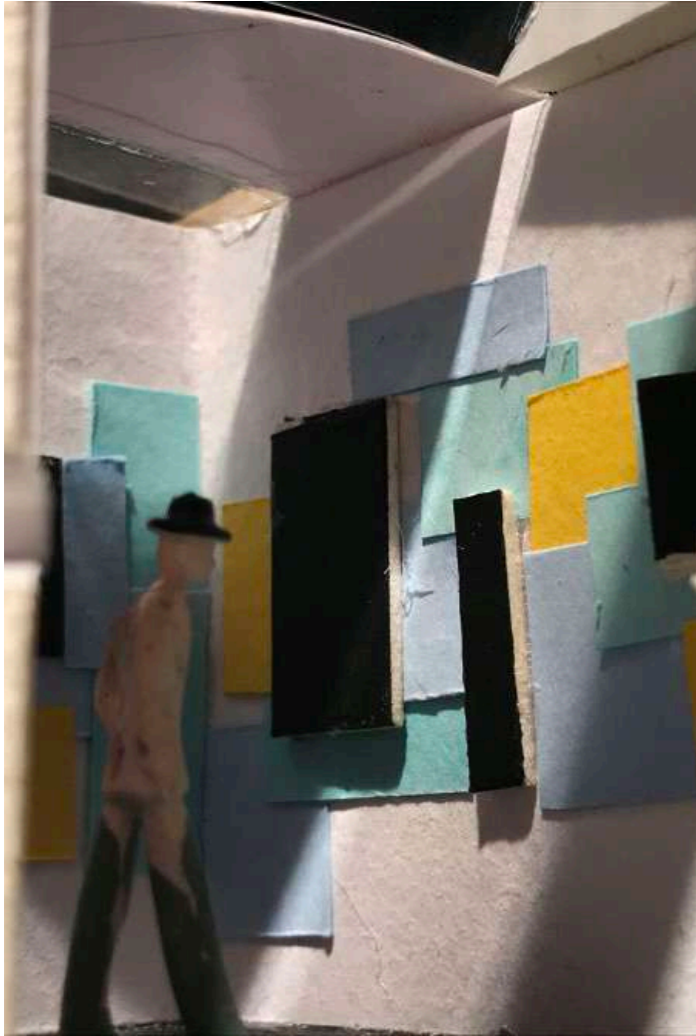
Orthographic Sketche (Back)



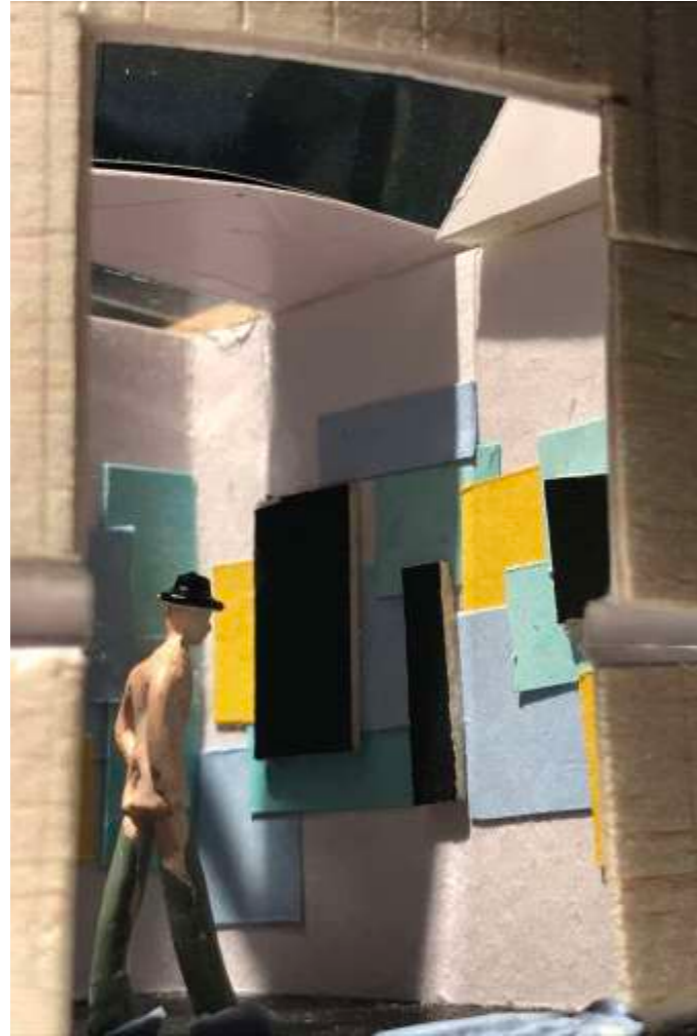




Final model in context, at Glasgow Botanic Garden



Before noon



Noon



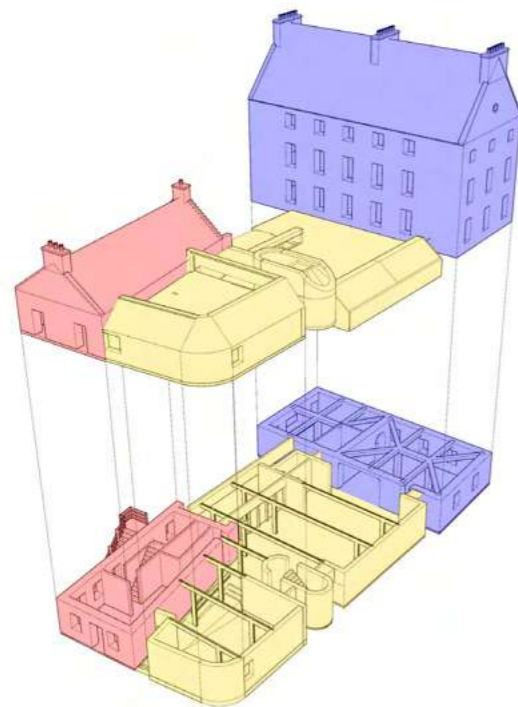
Afternoon



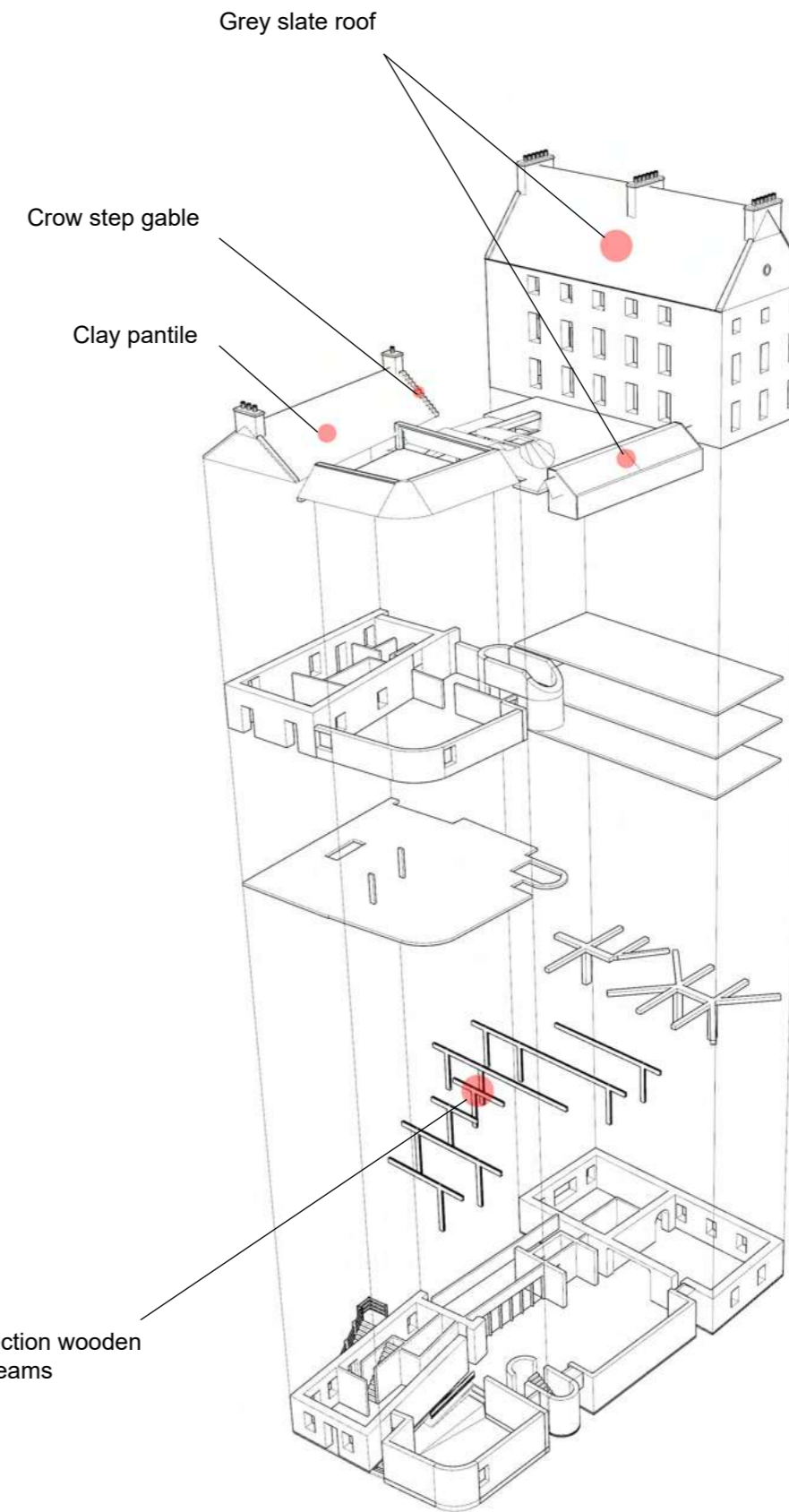
Evening

## Reassembling the Library

Bo'ness library has been used as a small social hub for children, parents, and elderly who has been used the library the most. It has also been used for displaying artworks of local artists. Therefore, I'm aiming to create and adapt the existing library to bring excitement and is welcoming, comfortable for reading, and adjustable for all. Also, to improve the connection and visibility of the new library within the public realm of Bo'ness Town Centre, enhancing its attractiveness and potential as a place of convivial encounter.



- West Pier Tavern (1711)
- Addition Extension (1978-80)
- Tobacco Warehouse (1772)





Hippodrome Cinema

It is an iconic building of the town and the oldest filmhouse in Scotland. It was designed by the local architect Matthew Steele and was built in 1911.

Museum of Scottish Railways



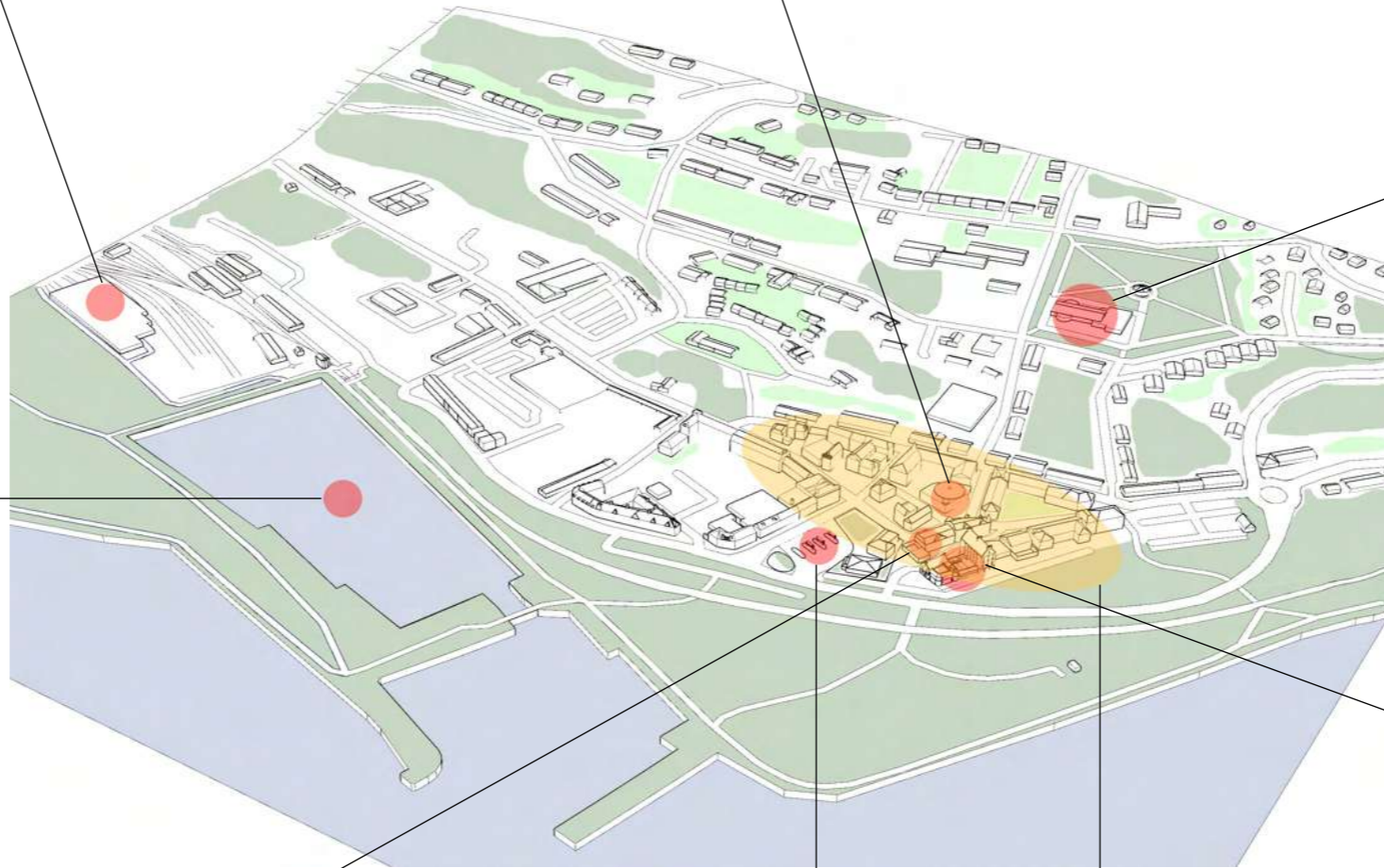
Bo'ness Harbour

It was for trading links with the Baltic and the Low Countries; exporting coal, sea salt, pottery, iron and distillery products all locally sourced. It was the country's second largest port during the coal mining era was situated.



Bo'ness Town Hall

It was built in 1904 at the time of booming industry. Main location for the famous fair held every summer.



Bo'ness Library

It was moved the town centre, to increase activity in the decreasing town centre. It is consisting of the historic Tobacco Warehouse (built in 1772), the old West Pier Tavern, and the addition extension between the two existing buildings was made in the 1980s.

Bus Station

**'Core Heritage Area' of Bo'ness**

47 to 51 North Street Dymock's Buildings

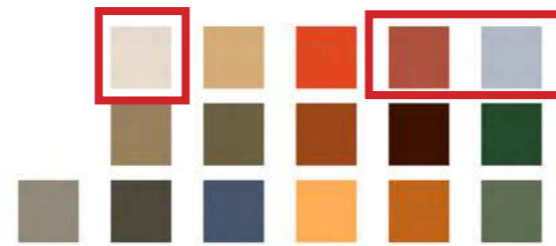
They were built in 1650. They are one of the oldest structures in the town and in the most historic part of Bo'ness. They are the only buildings that have survived from the period alongside the graveyard.



Colour scheme of the materials found at Bo'ness Library

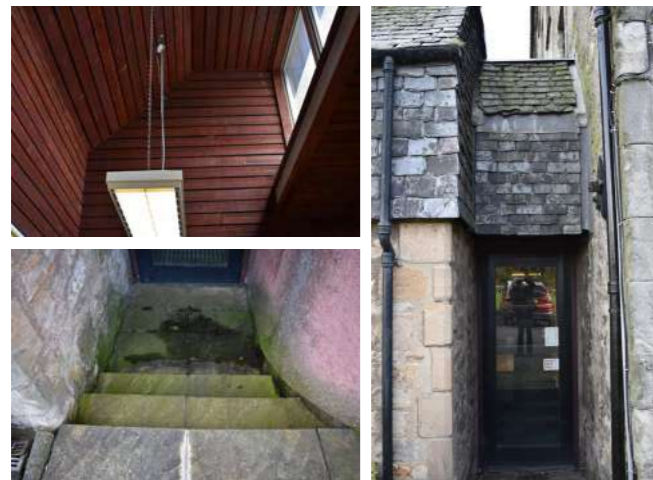


Colour scheme of the materials found at surrounded buildings



Timber cladding

I want to use quite a lot of glass to let the natural light in, but I don't want it to be only glass too expose of the inside; because it feels too bare. Therefore, the use of timber structure in pattern helps obscure sight. Especially, on the wall facing the private residence. To stop people in the library looking into the private residence. However, it still allows sunlight to come into the space.



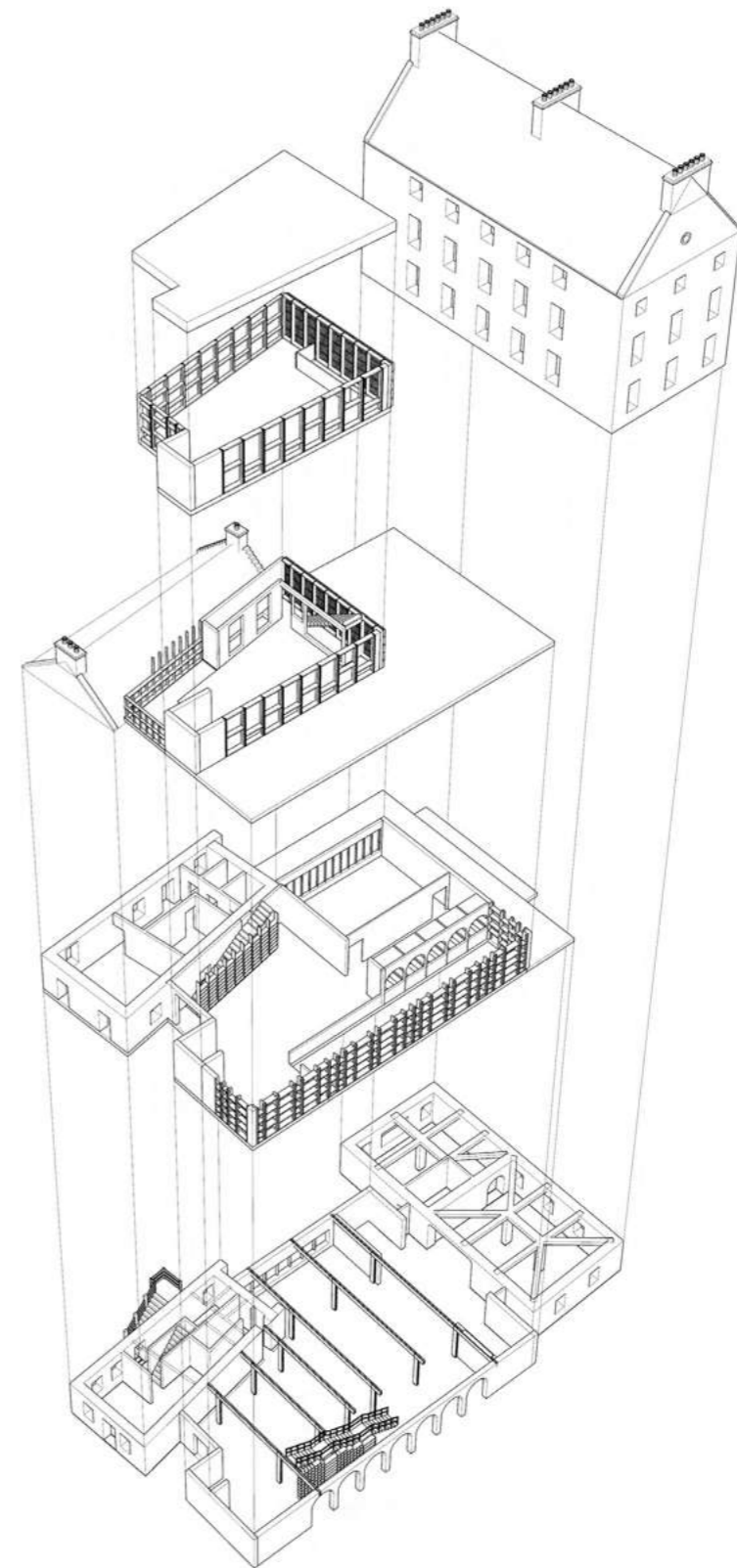
Congress and Exhibition Centre Italy

- Stone blockwork are mostly used.
- Uneven colour on the same surface. It is because colours of material has been changing through time due to the weather and pollution (i.e. sandstone absorbs carbon dioxide; some part turns grey)
- Water causing moss on stone (green)



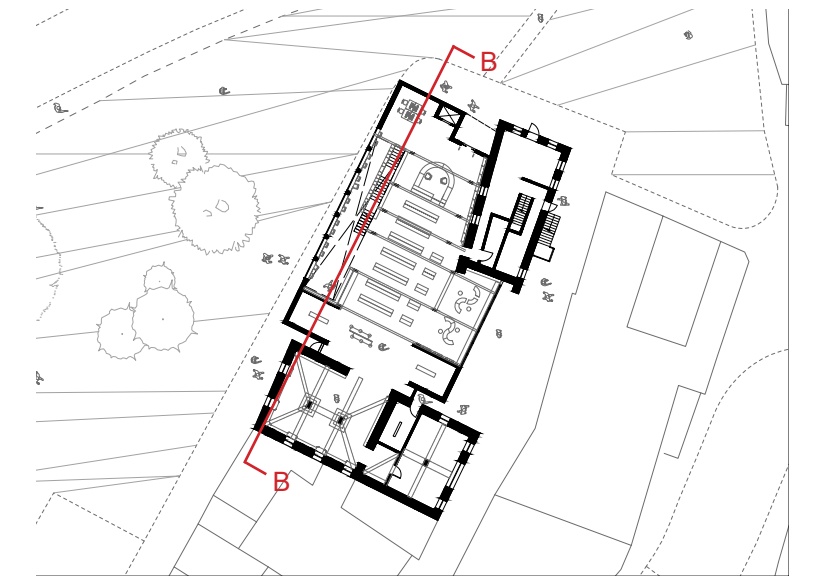
### Reused of demolished stones

As I decided to remove the existing wall of the library except the Tobacco Warehouse and the Tavern; therefore the demolished stones will be reused as paving/ or for a retaining wall of other local/nearby site.





Section B - B



Section in Context

## Year 3 : UFEX 2021-22

### Urban Food Exchange, Applecross Basin

The UFEX is an urban food exchange project in Glasgow City, located by the Scottish Canal, Applecross. It is an exchange of fresh vegetables and prepared food which is to be shared with and distributed to the local and wider communities. In support of Scotland's aspiration of becoming a 'Good Food Nation' and the growing movement of urban farming, we are creating a community for horticultural, agricultural and nutritional learning, production, and exchange. People can exchange for knowledge, skills, and experiences. It is a place that brings together people's hands, minds, and spirits in creating a creative collaboration with the long-term goal of sustainable urban food production and distribution for the city's nutritional needs. Hence, the project is under the concept of 'Integrate'; community, energy, landscape and culture.



UN Sustainable Development Goals



Learn to Plant



Local Harvest



Buy/Eat Local



Learn to Cook

From 'SEED TO MOUTH', by local  
Planting - Selling - Buying - Cooking



Vegetables to be planted



Transportation



Local shops



Energy



Landscape



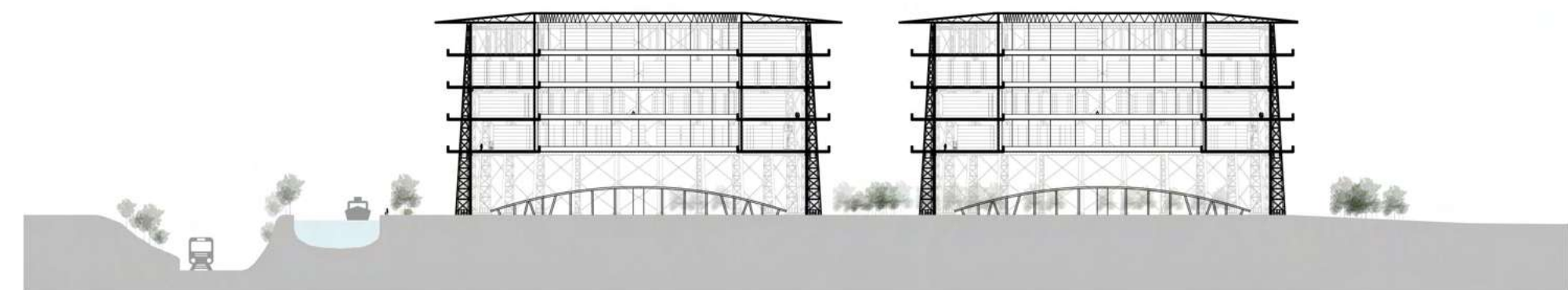
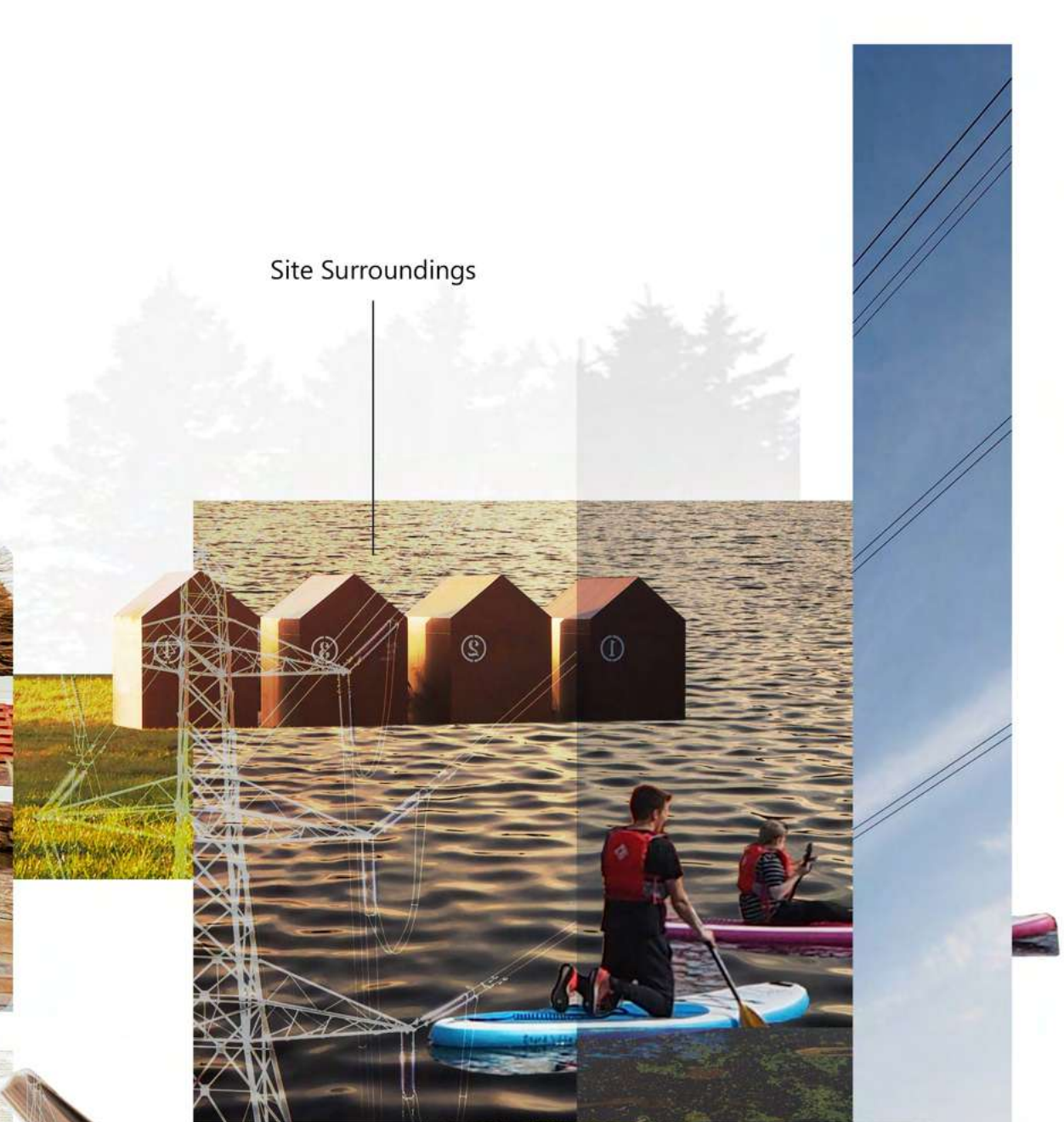
Culture



Vertical Farm at Temple Gasworks

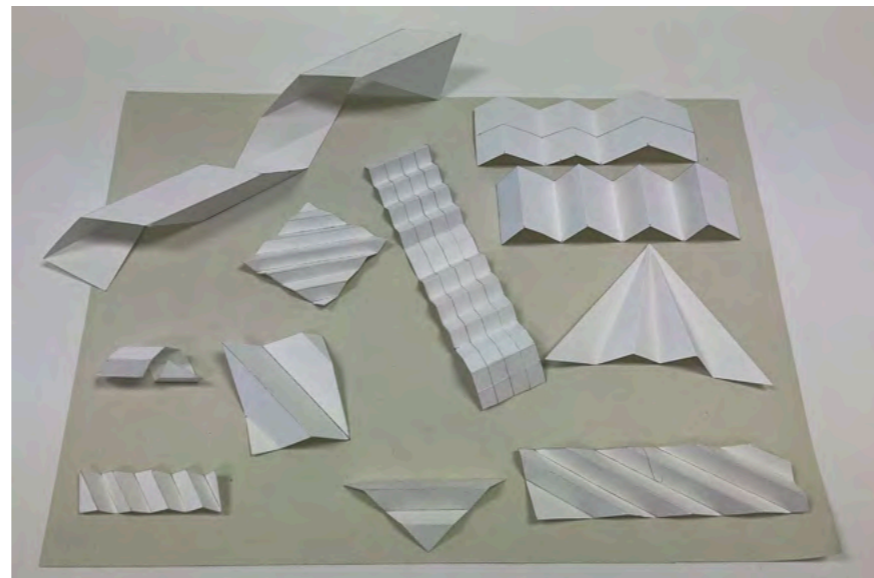
Planting Areas

Applecross Site





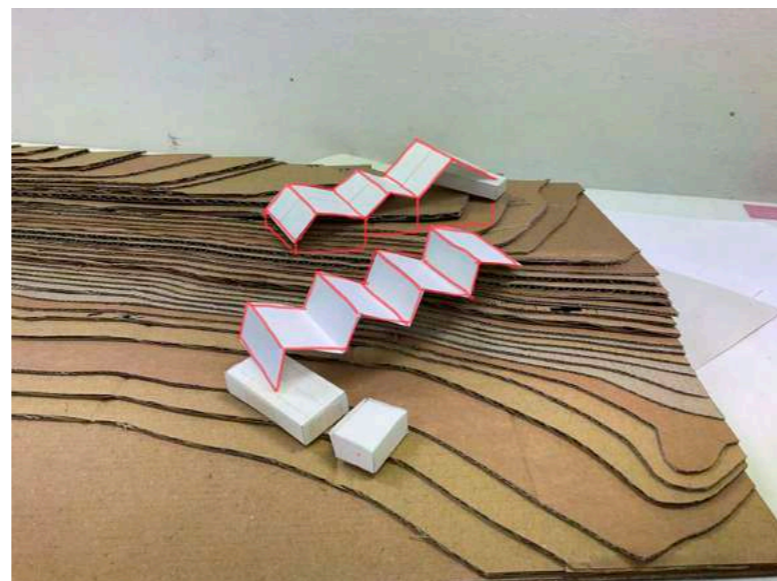
Tectonic Model on Site



Exploring Forms / Placement : Folded - Rectangle - Triangle

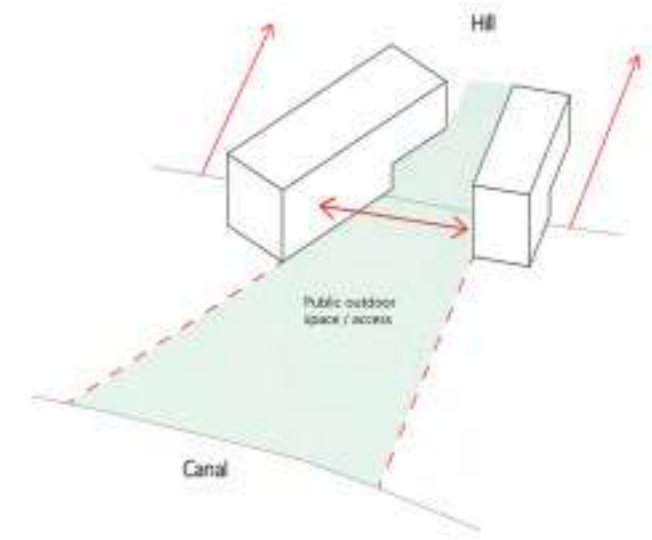
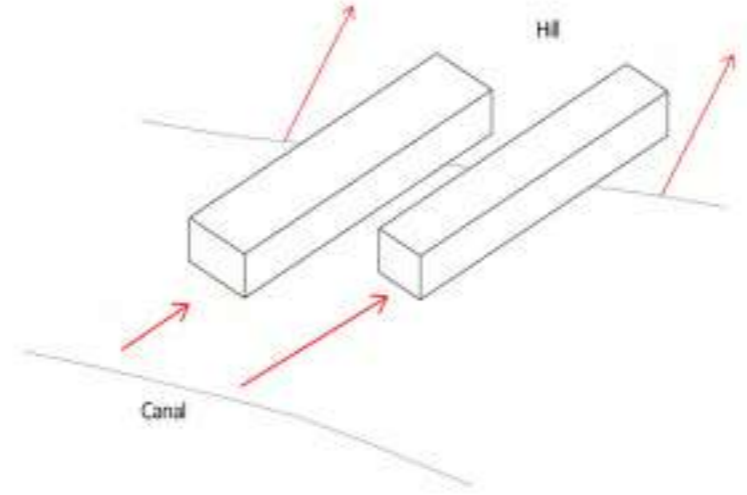
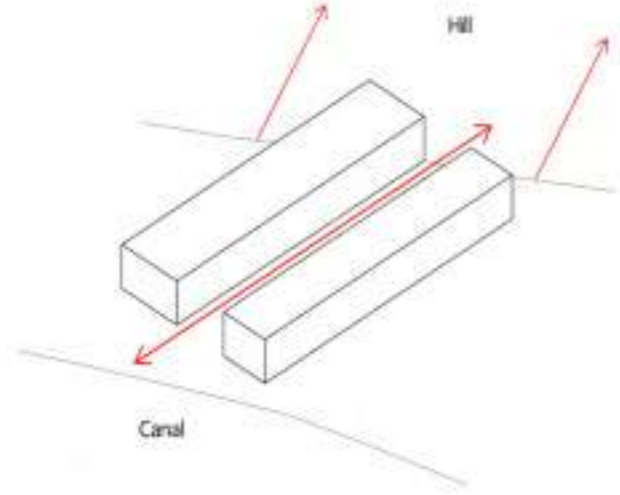
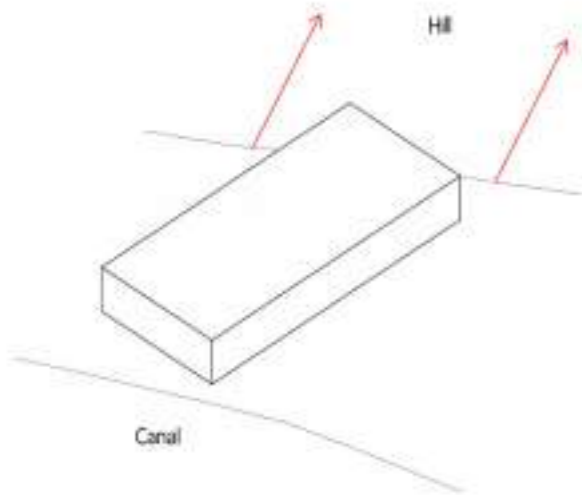


Laser Cut Site Model



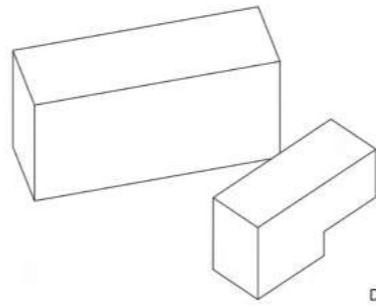
Site Model - Scale 1:500



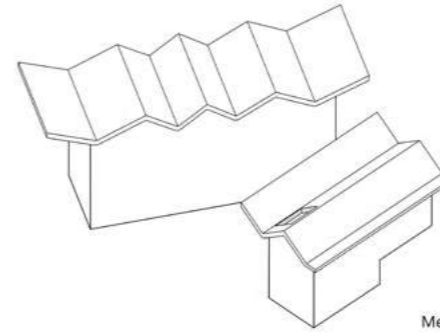




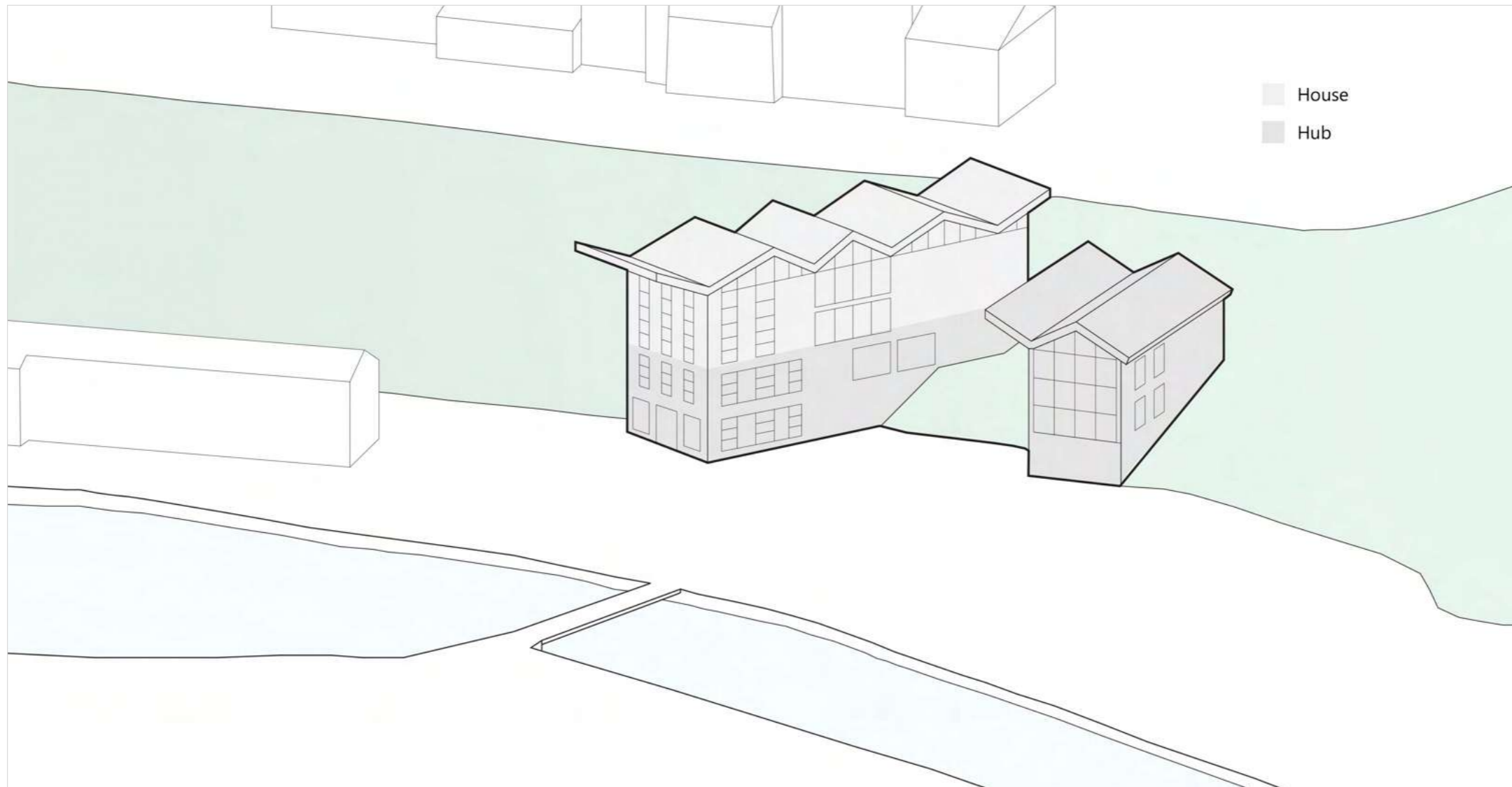
Tectonic Model



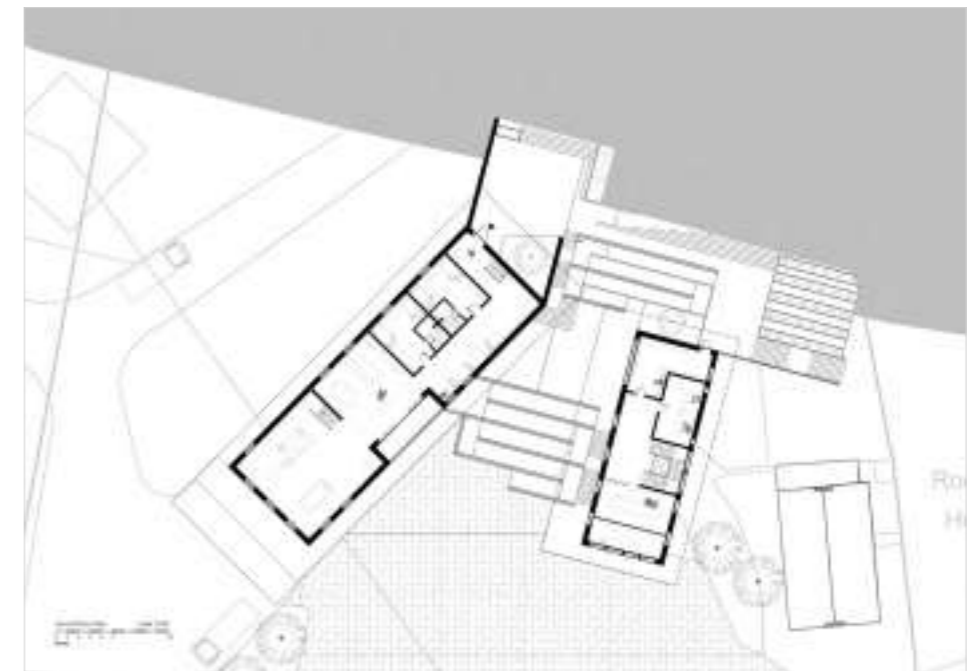
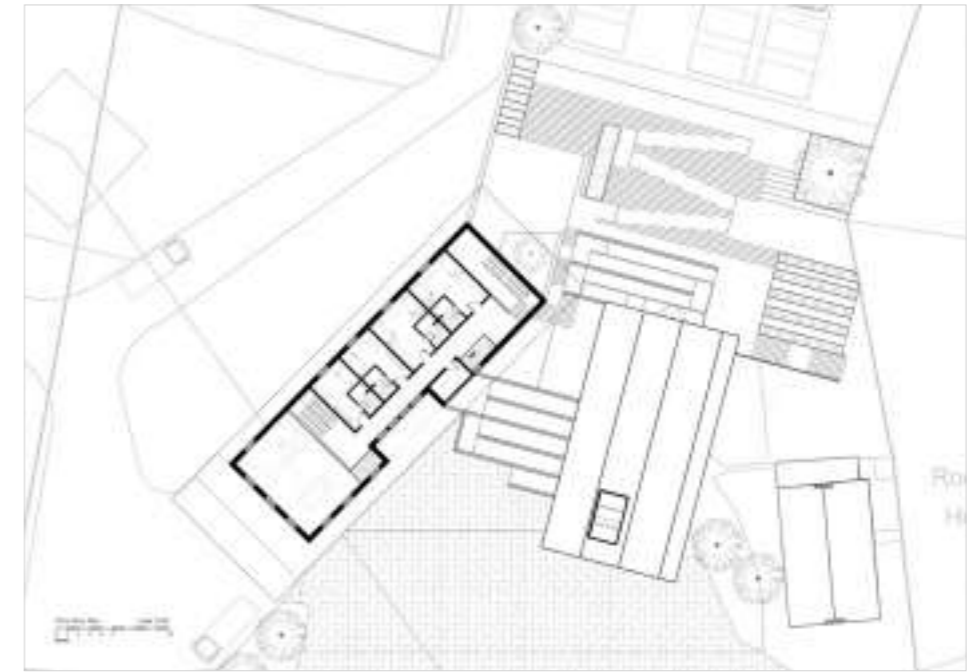
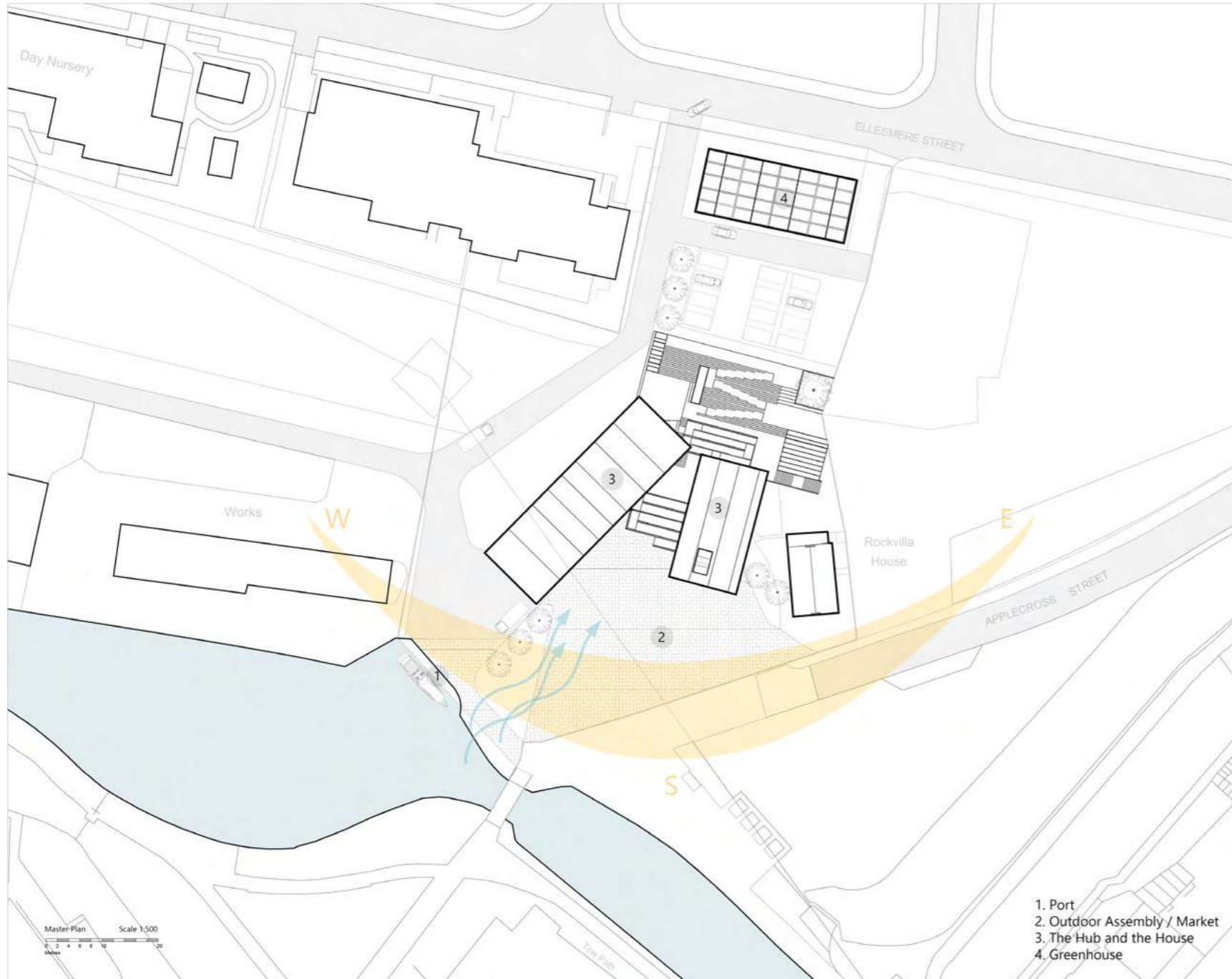
Developed Form



Merged









### Roof Construction

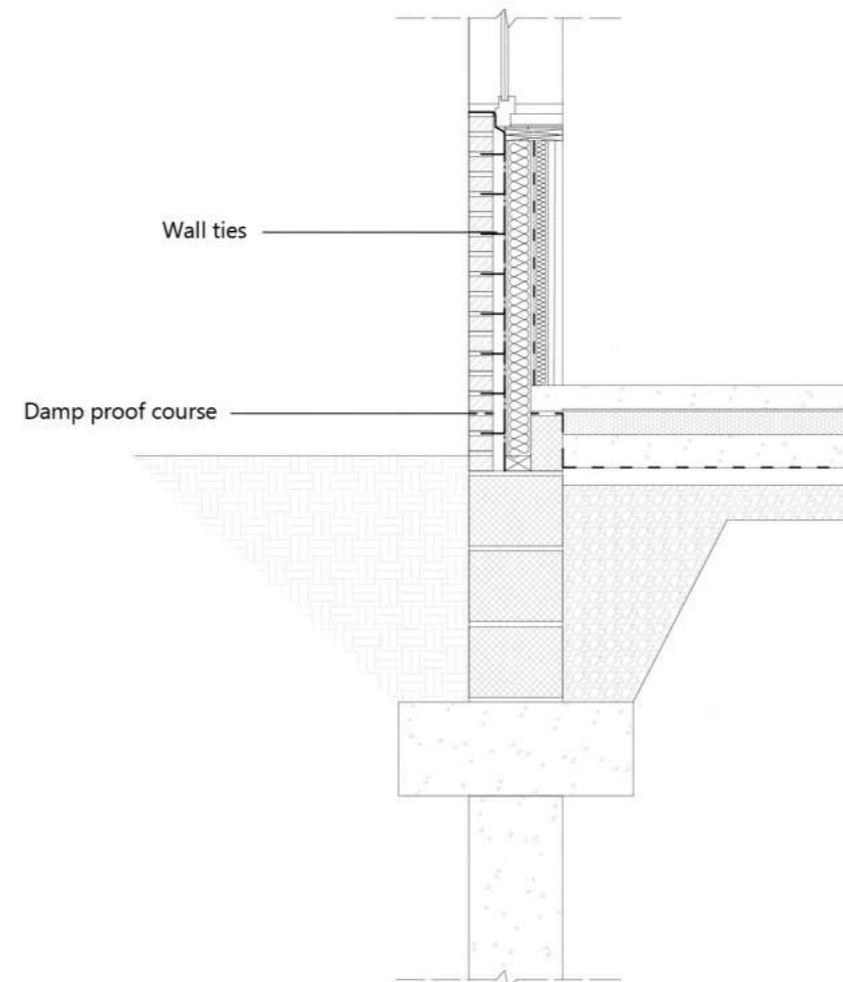
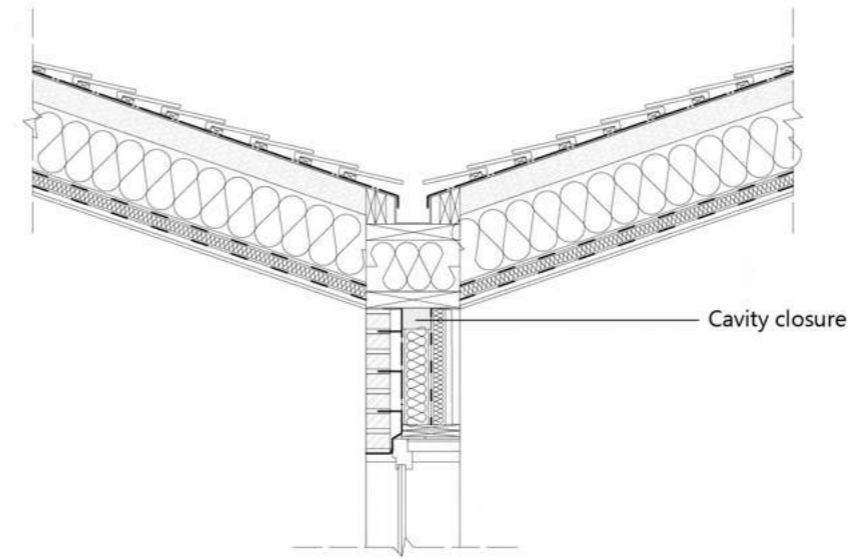
- Fibre cement tiles
- Tiling Battens
- Breather membrane / roofing felt
- Glass mineral wool insulation between rafters
- Sheathing board
- Vapour control
- Air tightness membrane
- Service void
- Plaster board

### Wall Construction

- 102.5mm Facade brick
- 50mm Ventilated cavity (gap)
- Breather membrane
- 12.5mm Sheathing board
- 100mm Glass mineral wool insulation within the timber frame
- 12.5mm Sheathing board
- Vapour control membrane
- 60mm Rigid insulation
- 47.5mm Service void
- 15mm Plaster board

### Floor / Foundation Construction

- 100mm Polished concrete floor screed
- Heating pipe
- 100mm Rigid board insulation
- damp proof membrane
- 140mm sand blinding
- 75mm Hardcore gravel
- Pile Foundation (reinforce concrete)











The House - Social Space



The Hub - Social Space



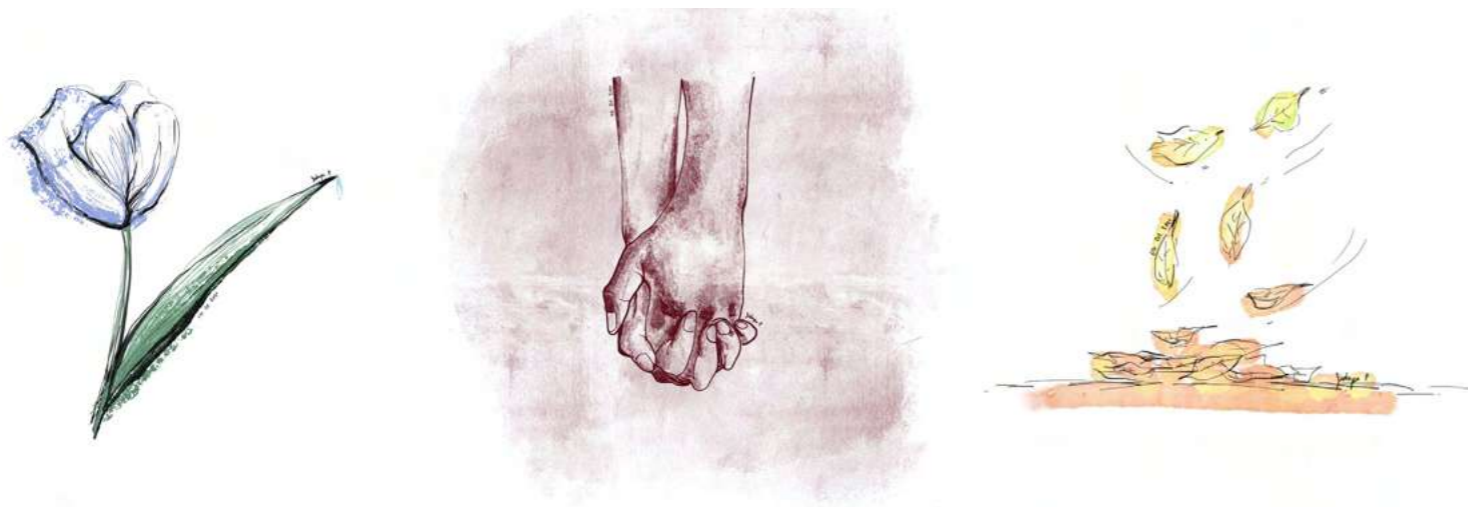


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Work Experience / Other Interests

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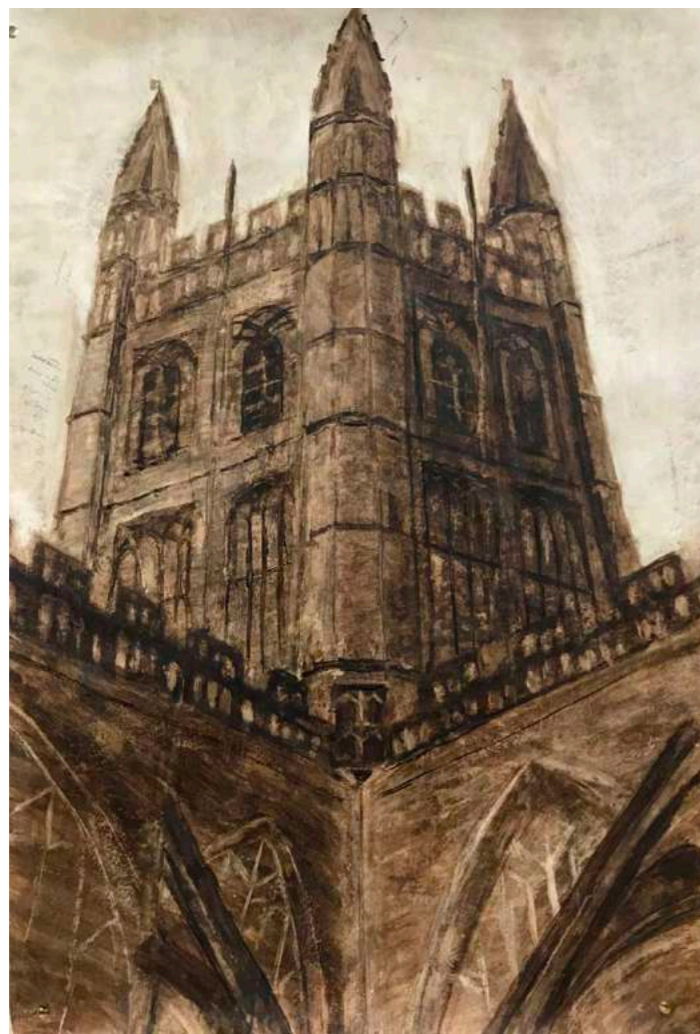




Instagram 'Peachtobber21 Challenge', Hand-drawn on Ipad, Procreate (2021)



Bristol (2019)



A1 Paper, van dyke, tissue and cardboard



A4 sketch book, graphite pencil

Three point perspective drawing of 'Bath Abbey' (2018)



York (2019)



Phuket (2020)

Analogue Photograph