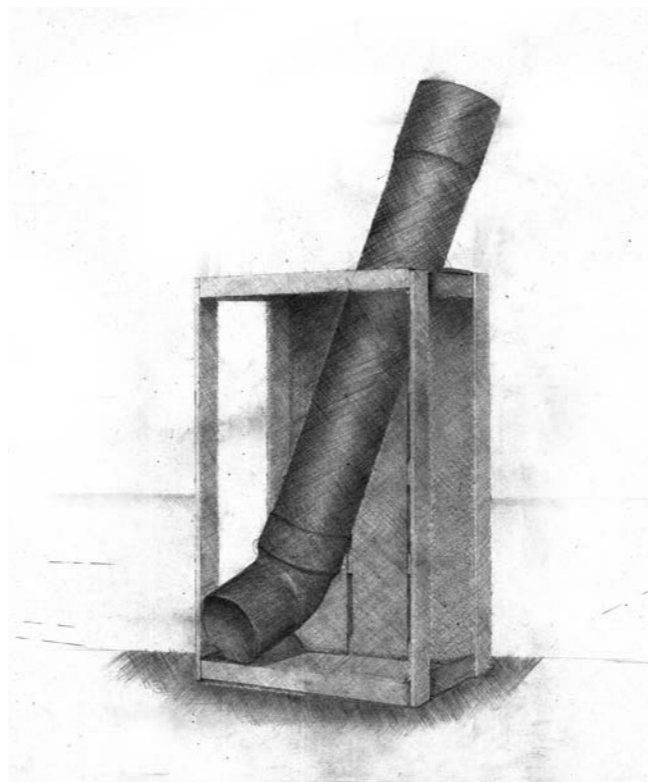


PETRA XYNIDOU

ARCHITECTURE UNDERGRADUATE



PORTFOLIO

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I am a BA (Hons) Architecture degree graduate of the University of Kent, currently looking for a second year out working experience opportunity.

University has been an inspiring and eye-opening experience to me. It provided me with a well-rounded knowledge on aesthetical, technological and environmental aspects of architecture, as well as giving me the opportunity to explore my personal interest in theatrical stage design. During my Part 1 internship I gained valuable working experience. As an enthusiastic and quick learner, I worked comfortably and collaboratively in both individual and team environments.

Through this year out I aspire to enrich my professional background and to acquire a new set of skills and knowledge that will enhance my future studies in architecture.

This portfolio includes selected examples of my Part 1 internship, my personal design and also academic projects during my BA course. I hope you enjoy it!

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add: 81 Kennington Park Road
London
SE11 4JQ

nationality: Greek
dob: 01/07/1992

United Kingdom

EDUCATION

- 2011- **RIBA Part I**
2014 **BA (hons) Architecture**
with Upper Second Class Honours
The University of Kent.
Completed: June 2014.
Indicative Modules: Adapt and Extend, Caravanserai, Landscape, Modular, Urban (design projects), Advanced Computer Modeling, History of Architecture.
- 2010- **Network Foundation Program in Art and Design**
2011 Thessaloniki, Greece,
Indicative Modules: Mathematics, Statistics, English Language, History of Art, Art and Design
- 2009- **Greek Apolytirion**
2010 **1st Lyceum, Kilkis**
Score: 18,5/20. Specialised Modules:
Architectural drawing and Still Life composition drawing.
Greek University Admission Score: 19920/22000

EXPERIENCE

- 2008- **Internship** at the practice of the architect Meni Meletiadou-
2010 Georgiadi, Kilkis, Greece.
Introduction and courses on Architectural drawing and Still life composition drawing
- 2014- **Part-1 Internship** (9 months, Oct-Jun) with KLAB Architects,
Athens, Greece.
2015 Participation in summer residences, retail and office design projects.
Attendance to the 100%Hotel Design Awards 2015, representing KLAB, co-winner of the competition's main prize and two sub-prizes.



Part-1 Internship (4 months, Jul-Oct) with Nikos Biskos, Architectural Practice, Corfu, Greece. Participation in residential and retail projects.

SOFTWARE

AutoCad | Revit | 3D Studio Max | VRay | SketchUp | ArchiCad | Vectorworks (beginner) | Adobe Creative Suite : Photoshop, InDesign, Illustrator, Premiere Pro | Microsoft Office : Powerpoint, Word, Excel |
Operation Systems
Microsoft Windows | Mac OSX | Linux(basic)

TECHNICAL

Modelmaking, lasercutting, wood and metal workshops, basic electronics and circuits

LANGUAGES

Greek (Native)
English (Fluent)
German (Conversant)
Italian (Basic knowledge)
Danish (Internet courses)

OTHER

- 2014- **Stage and Costume Design Certificate**
2015 one year course at the Laboratory of Scenography Athens (LSA) with Set and Costume Designer, Maria Chaniotaki.
Participation at the final exhibition of the LSA.
- June **Participation at the Prague Quadrennial of**
2015 **Performance Design and Space Greek Student Pavilion** with LSA, a design proposal for a performance adaptable to the four seasons.

Interests: Theatre Scenography and Stage design, Dark room developing and printing, product design, wine making, theatre, music, cinema, travelling, nature, yoga.

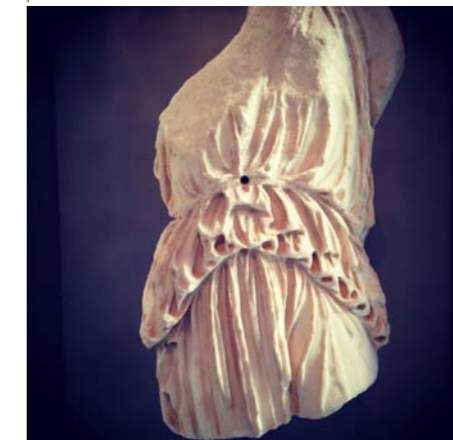
References upon request



Interior Perspective of Landscape Project// Stage 2



Interior Design for Nikos Biskos Architectural Practice, 3D during my internship at the practice



Sculptural facade for the Acropolis Hotel, 3D during my internship with KLAB Architects, Athens, Greece

PROFESSIONAL EXPERIENCE

NEW ARCHITECTURAL OFFICE/CORFU OLD TOWN/GREECE

//Nikos Biskos Architect//2015

During my internship with Nikos Biskos, Corfu , Greece, among a series of other projects around the island, I took part in the interior design of the new office of the practice, producing a series of 3D drawings, also to be published in the practice's new website.



PROFESSIONAL EXPERIENCE

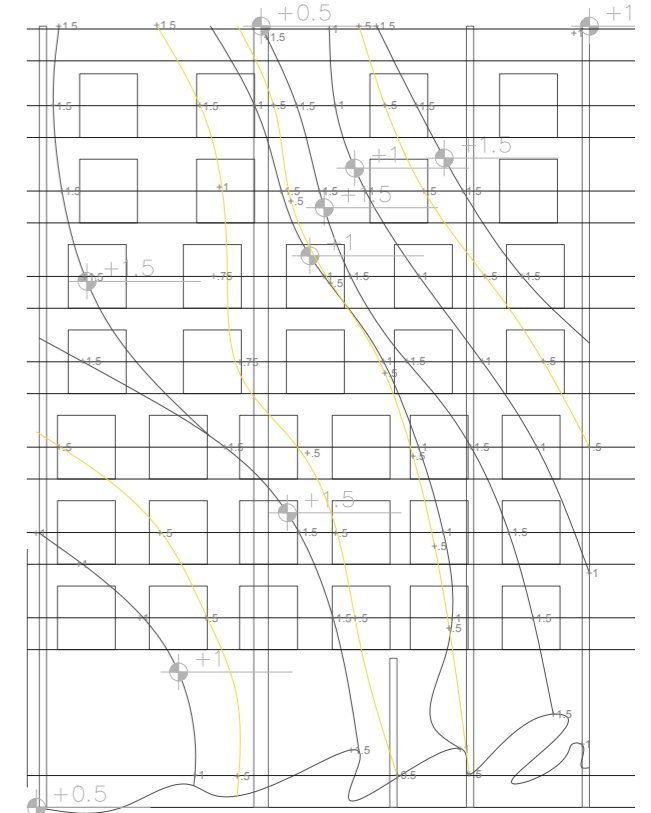
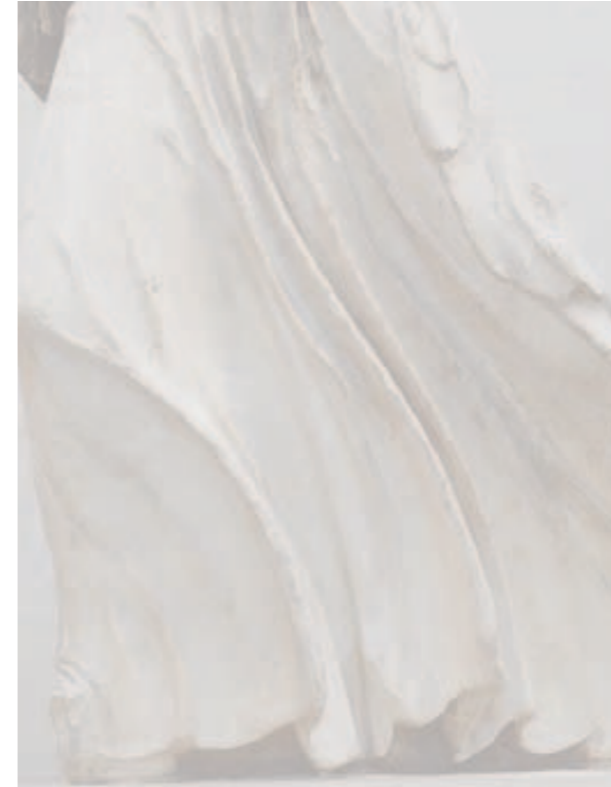
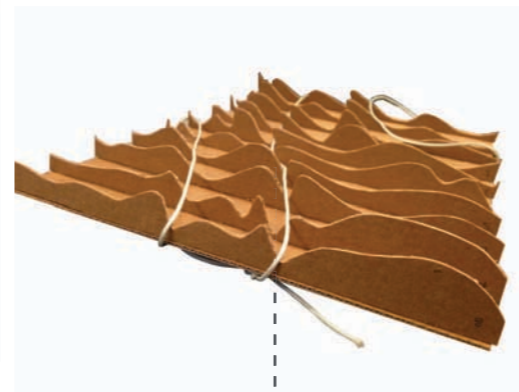
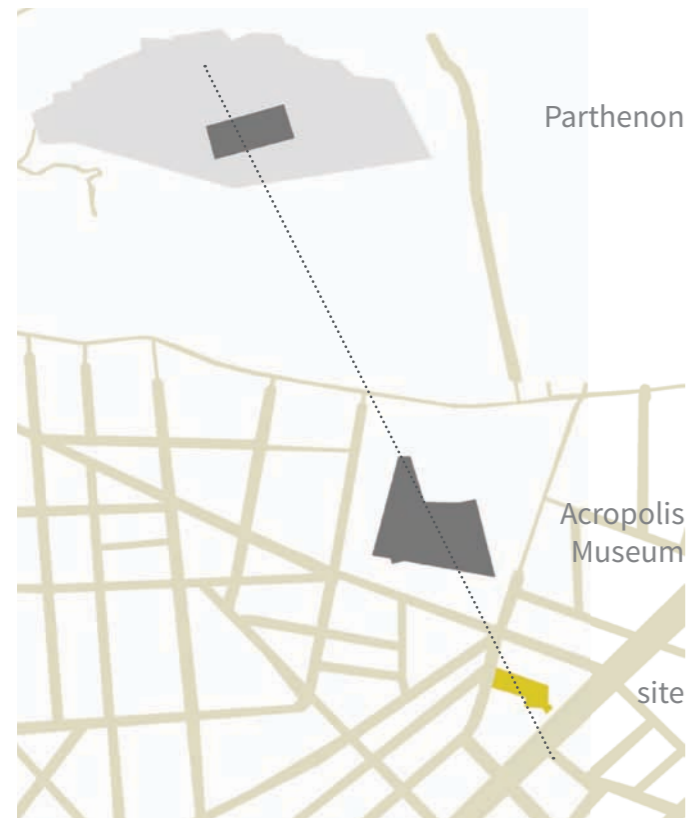
ACROPOLIS HOTEL/ATHENS HISTORICAL CENTRE/GREECE

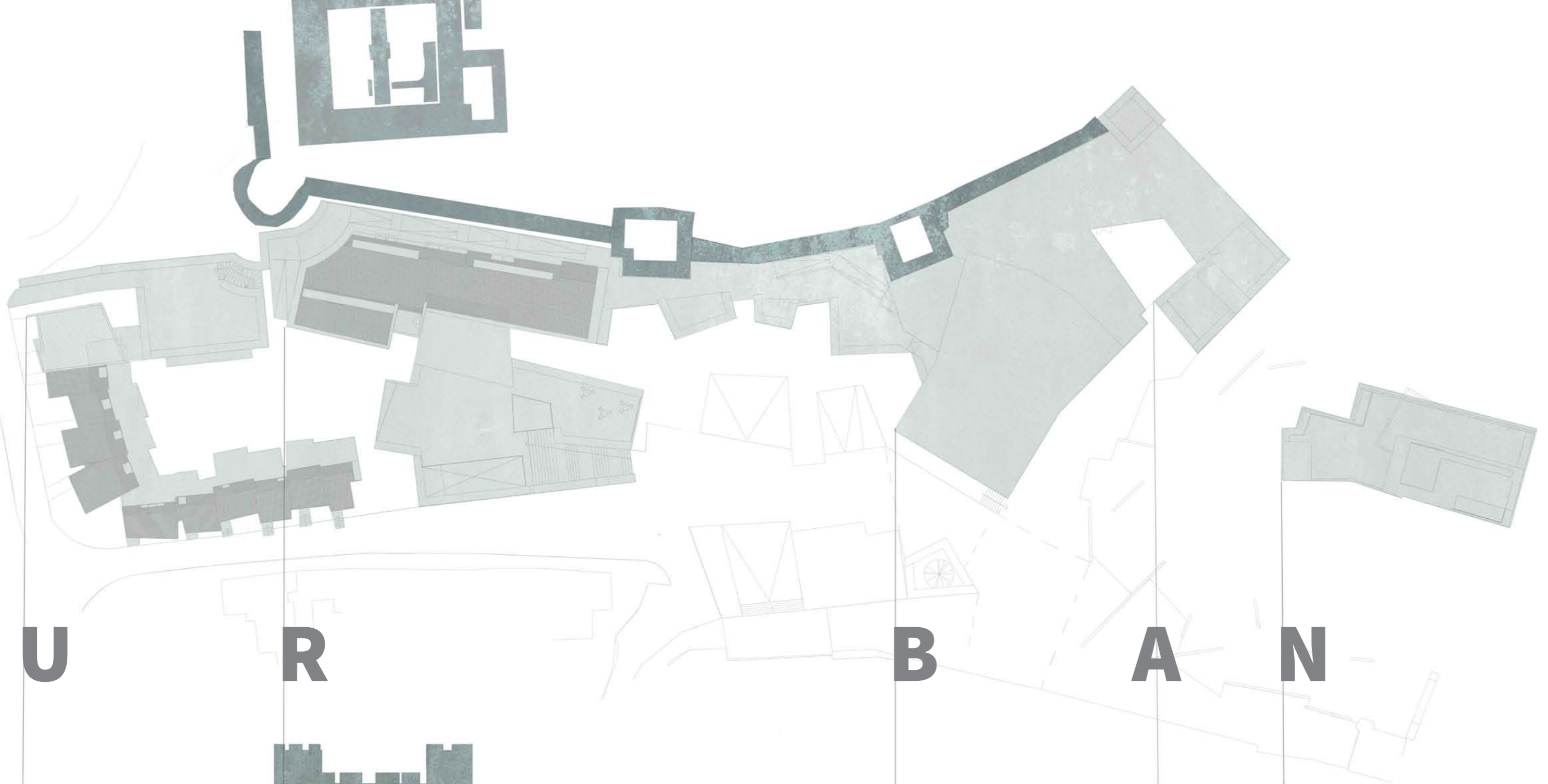
//KLAB Architects//2014-2015

The project explores hotel design in a historical yet contemporary context. Located axially on a line that connects the Parthenon and the new Acropolis museum, our proposal sought for a metaphorical connection with these important landmarks. Our first thoughts started shaping a young and female character for the new building, one that would somehow balance the existing environment. The Parthenon, built in Doric order representing the male and the new Acropolis museum, built in contemporary neutral materials of concrete and glass.

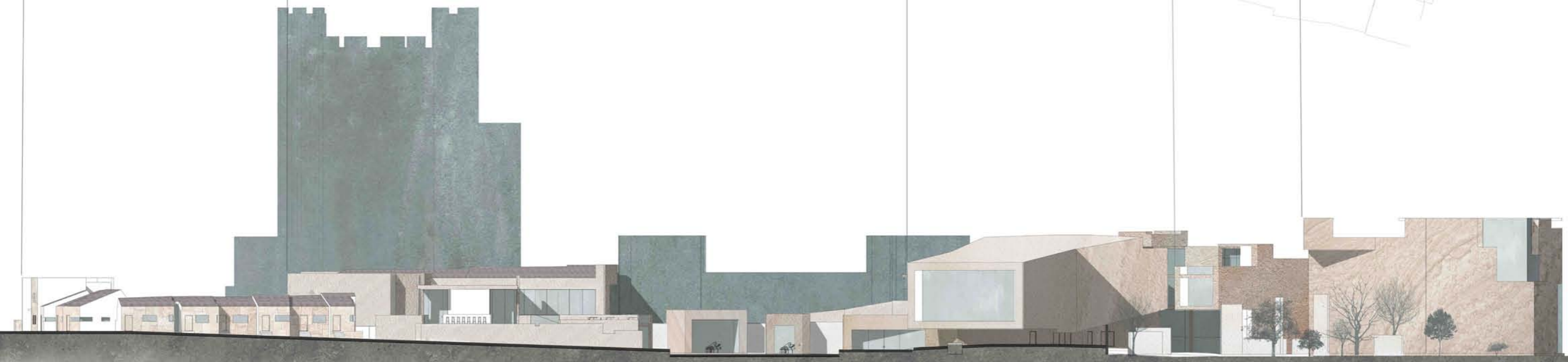
Personal Involvement:

Facade design; initial sketches and sketch model ideas for a facade inspired by the textile foldings, as captured on the ancient greek marble statues' dresses, 2D CAD development of the idea to inform an initial 3D preview.





U R B A N



URBAN MASTERPLAN

KENT SCHOOL OF MUSIC AND FINE ARTS POSTGRADUATE CAMPUS
 //FINAL DEGREE PROJECT//STAGE 3

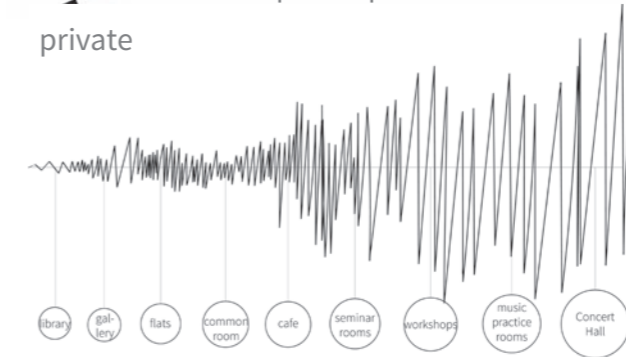
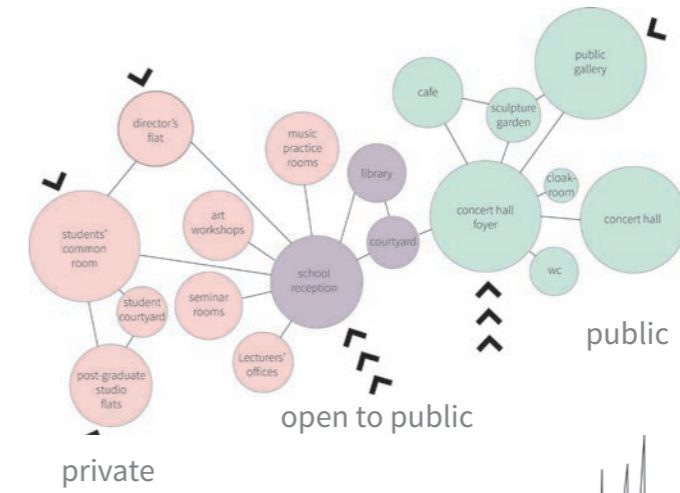


CONCEPT AND SITE

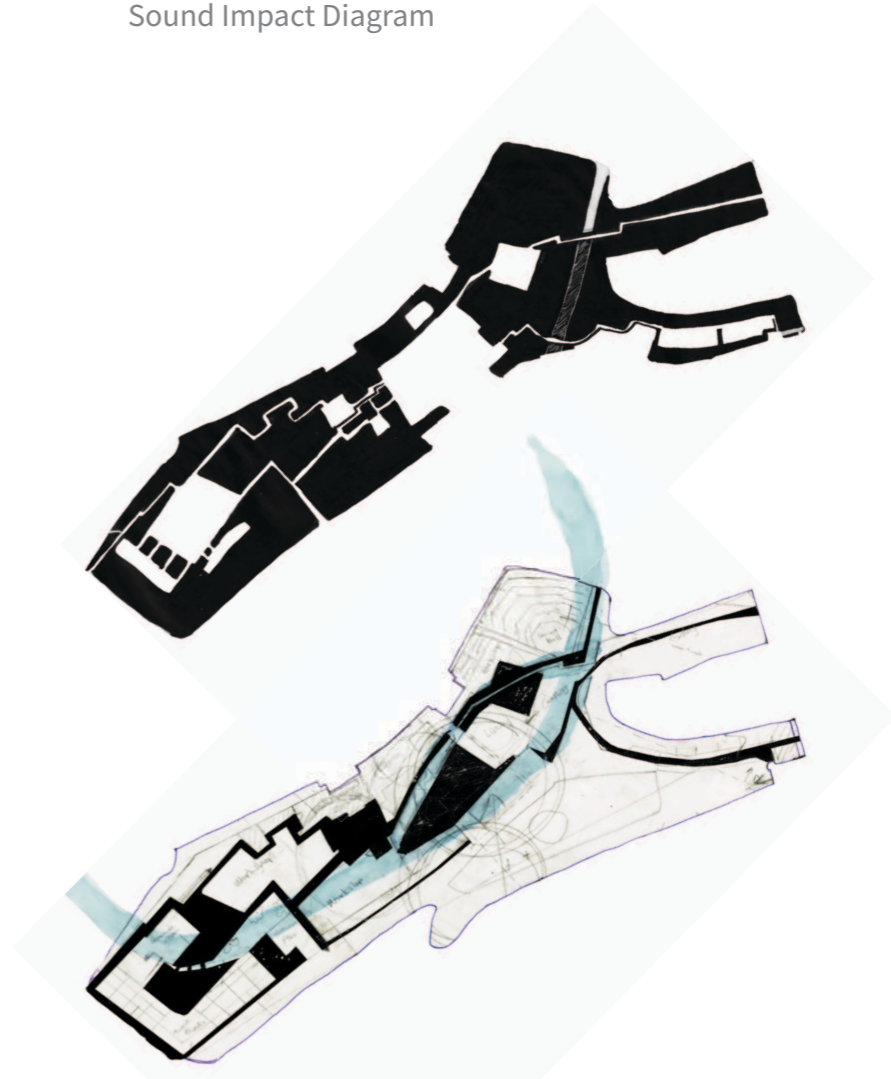
CHILLIDA AND THE SCULPTURAL URBANISM

The URBAN project explores the juxtaposition imposed by the two historical buildings around the site; the rigidity of the Normal Castle and Wall and the spirituality of the Cathedral.

The historical background and the artistic requirements of the brief were explored through the work of the sculptor Eduardo Chillida. His theory of the 'negative space' was expressed as an urban planning method, raising the importance of the open spaces among the buildings and their transformation into a vivid ground for interaction between the students and the local community.



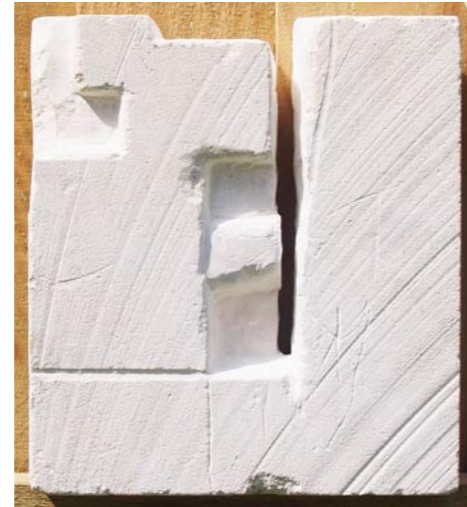
Sound Impact Diagram



Sculptural building forms are placed on a solid concept plan, where voids represent possible open spaces. Introducing the water element brings back the memory of the old castle moat, but also relates its sound and reflection effects with the new activities of the School of Music and Fine Arts.

THE HIGH STREET FACADES

The sculptural quality of the project appears straight from two entrances of the site, the sculptural garden and the gallery. Acting as an open-air and an enclosed exhibition space of the school, respectively, the two «entrances» are complementary to each other, just like the light Cathedral and the solid Castle, the aetheral music and the materiality of the plastic arts. The duality of the site is reflected on the matching sculptural forms of the two facades, the thresholds between the existing urban fabric to the new development.



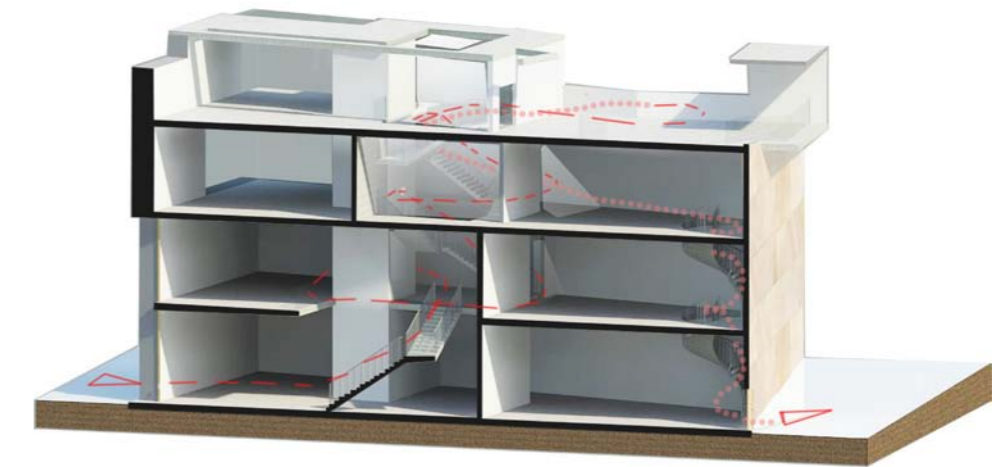
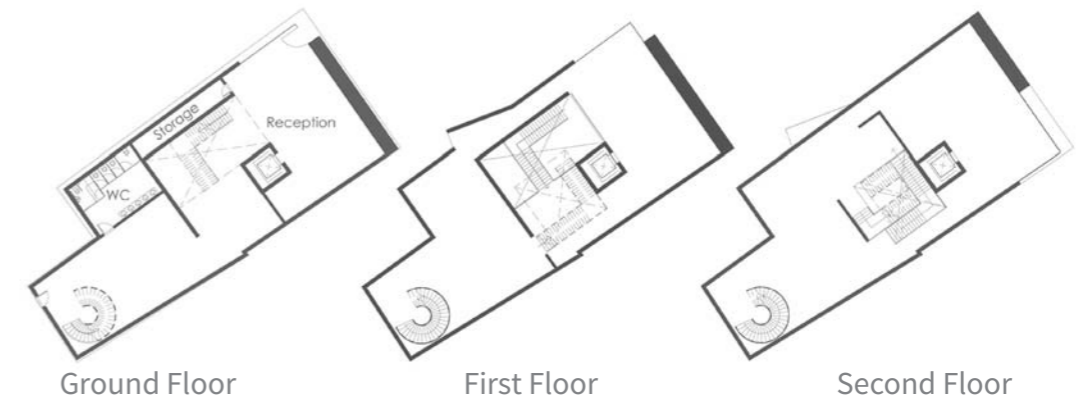
facades' sculpted stone models



High Street Elevation

THE GALLERY

In order to attain the function of the entrance to the campus, the interior circulation guides the visitor coming from the High Street to a journey through the three floors of the gallery, to exit the gallery through the back of the building, where it connects with the rest of the site.





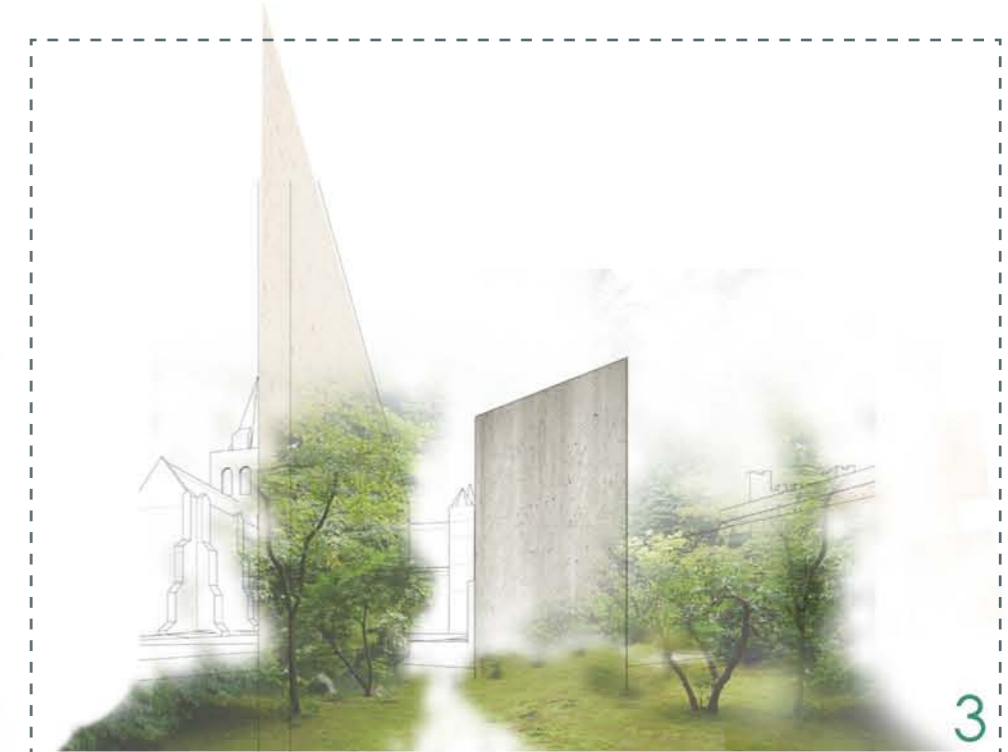
THE SCULPTURE GARDEN

The left facade takes the visitors through the sculpture garden. Vegetation and decorative walls allow for some glimpse of the Cathedral and the Castle, but only when you reach its final point is where you appreciate the open view.

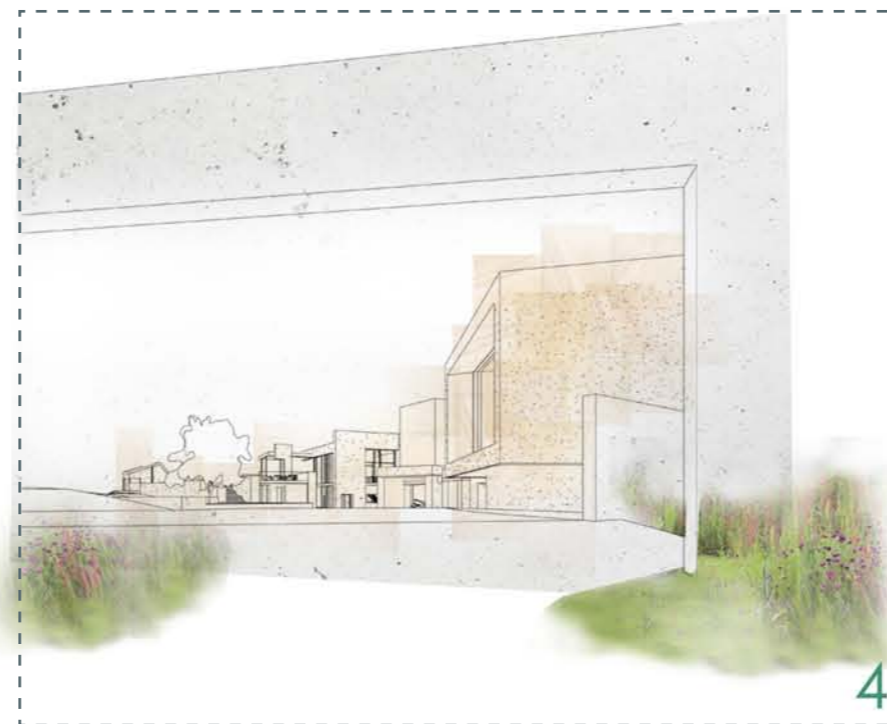
1



2



3



4



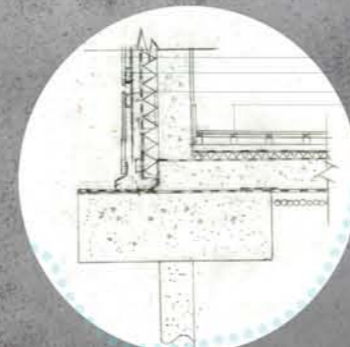
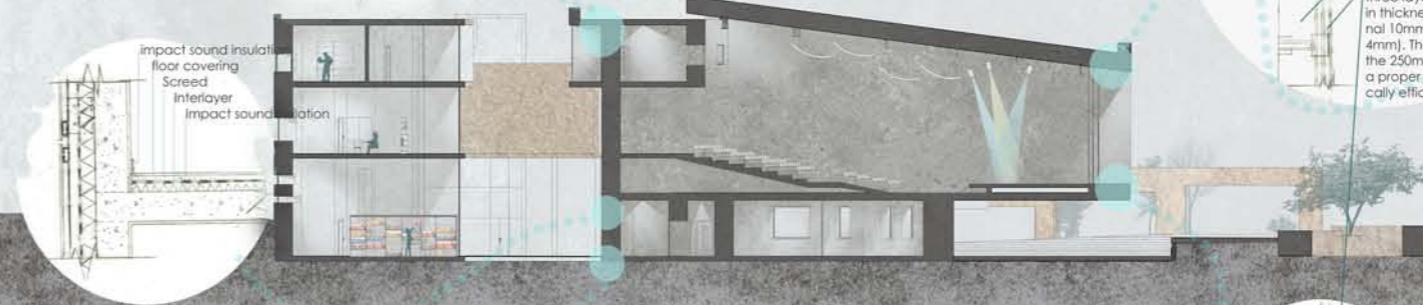
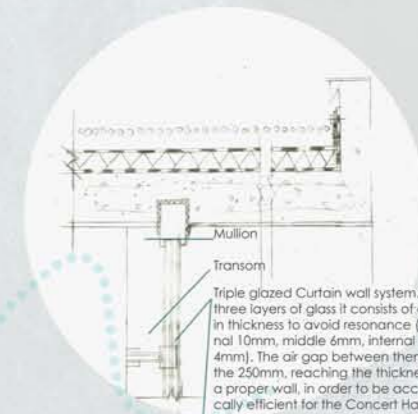
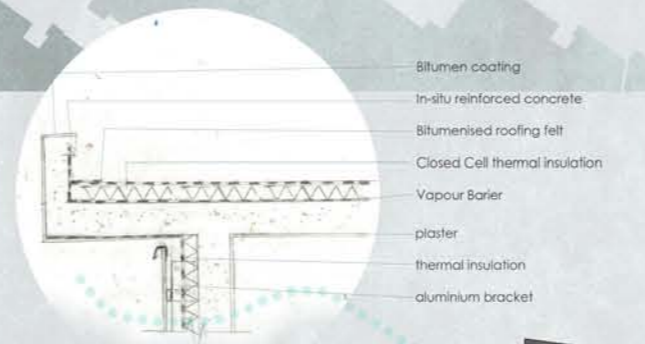
5

CONCERT HALL & MAIN SQUARE

The concert hall is as a meeting place, where the public can enjoy the work of the students, always portraying the Cathedral as a backdrop for the concerts taking place in the main hall.



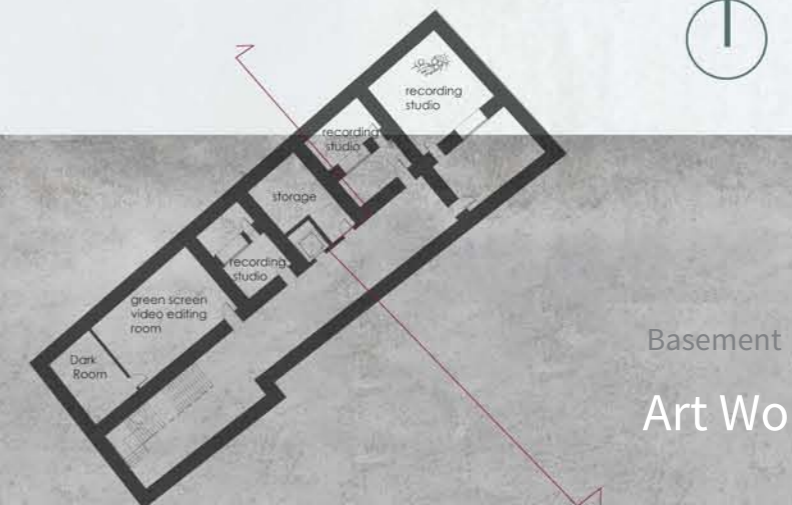
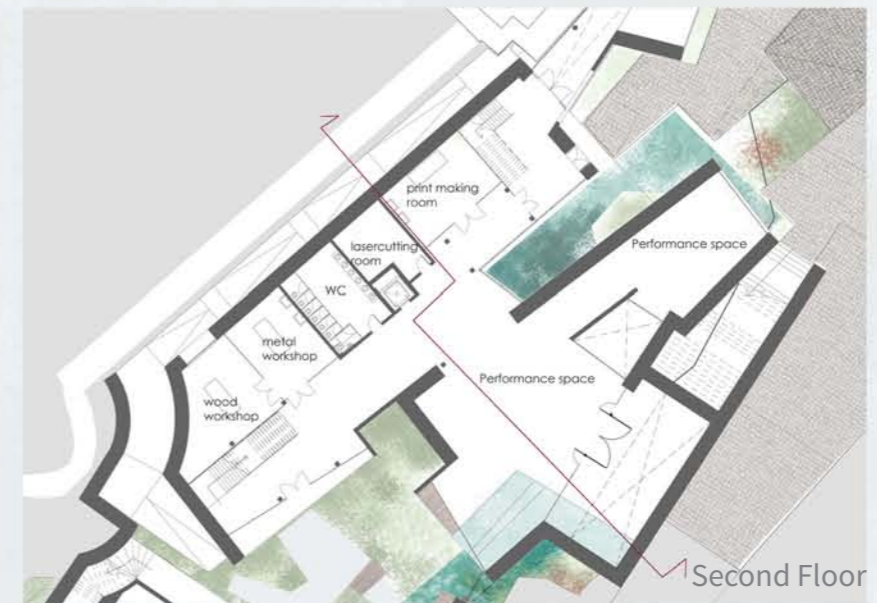
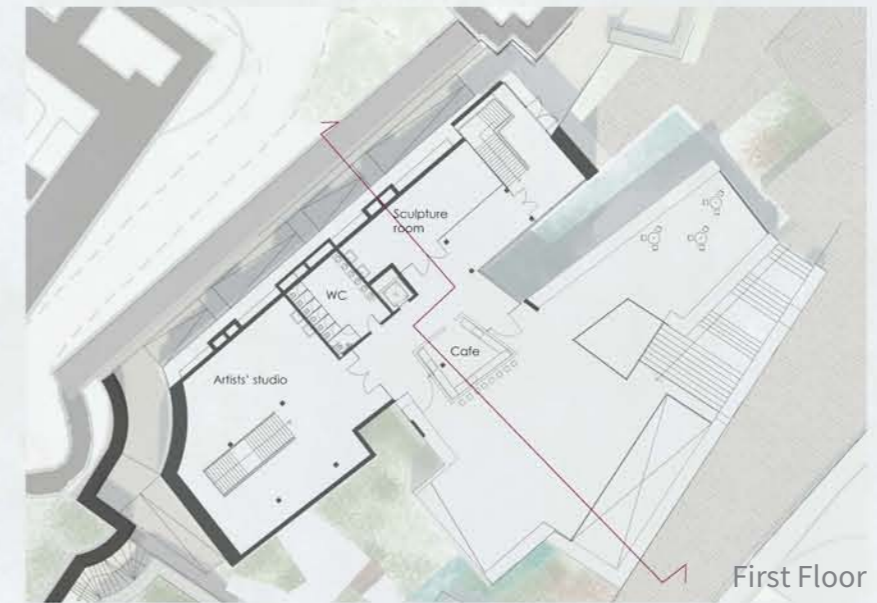
Structural Details



Library & Concert Hall Section

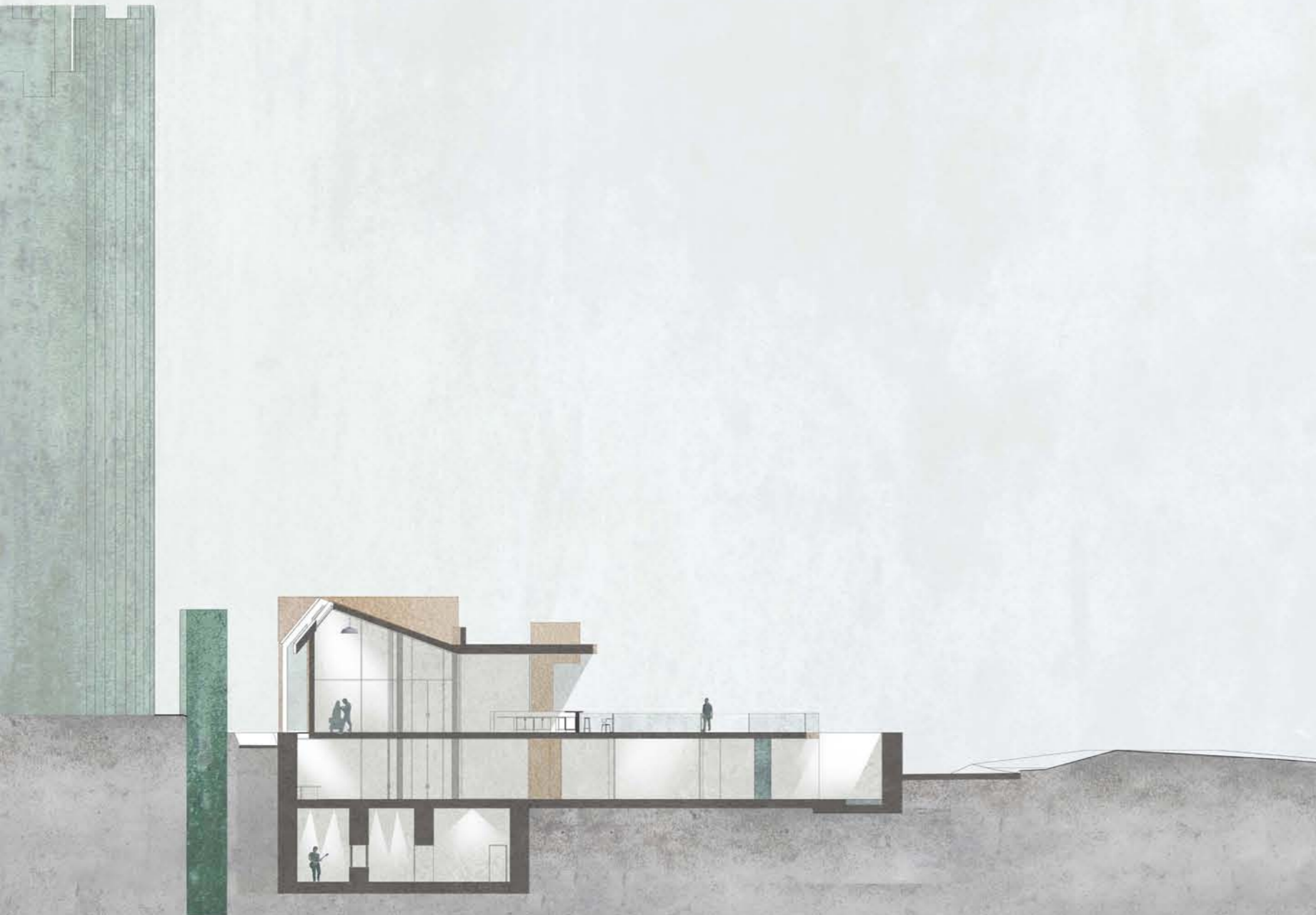
MUSIC & ART WORKSHOPS

A building shared by students of both courses. Recording studios are placed in the basement to provide with soundproof acoustics. Art studios take advantage of the top floor's natural light, while the ground floor includes commonly used studios and a spacious performance space for rehearsals and presentations of combined projects.



Basement

Art Workshops Section



POSTGRADUATE ACCOMMODATION & DIRECTOR'S MAISONETTE

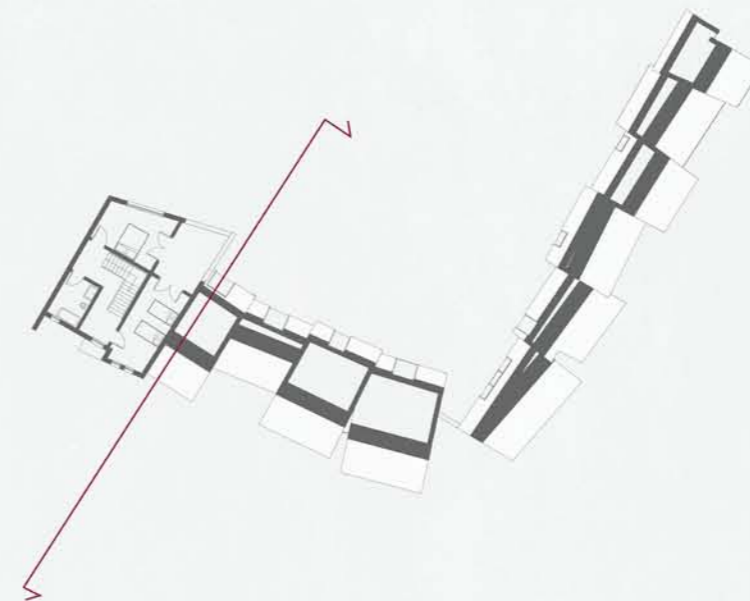
Student's accommodation spans in two floors, taking advantage of the natural slope of the site, to create a shared private garden. Skylights provide Castle views to every student maisonette, framing the historical context to the interiors. The director's maisonette is benefitted by a private entrance, a private external balcony, and also direct access to the school workshops.



Lower Ground Floor



Upper Ground Floor



Director's First Floor



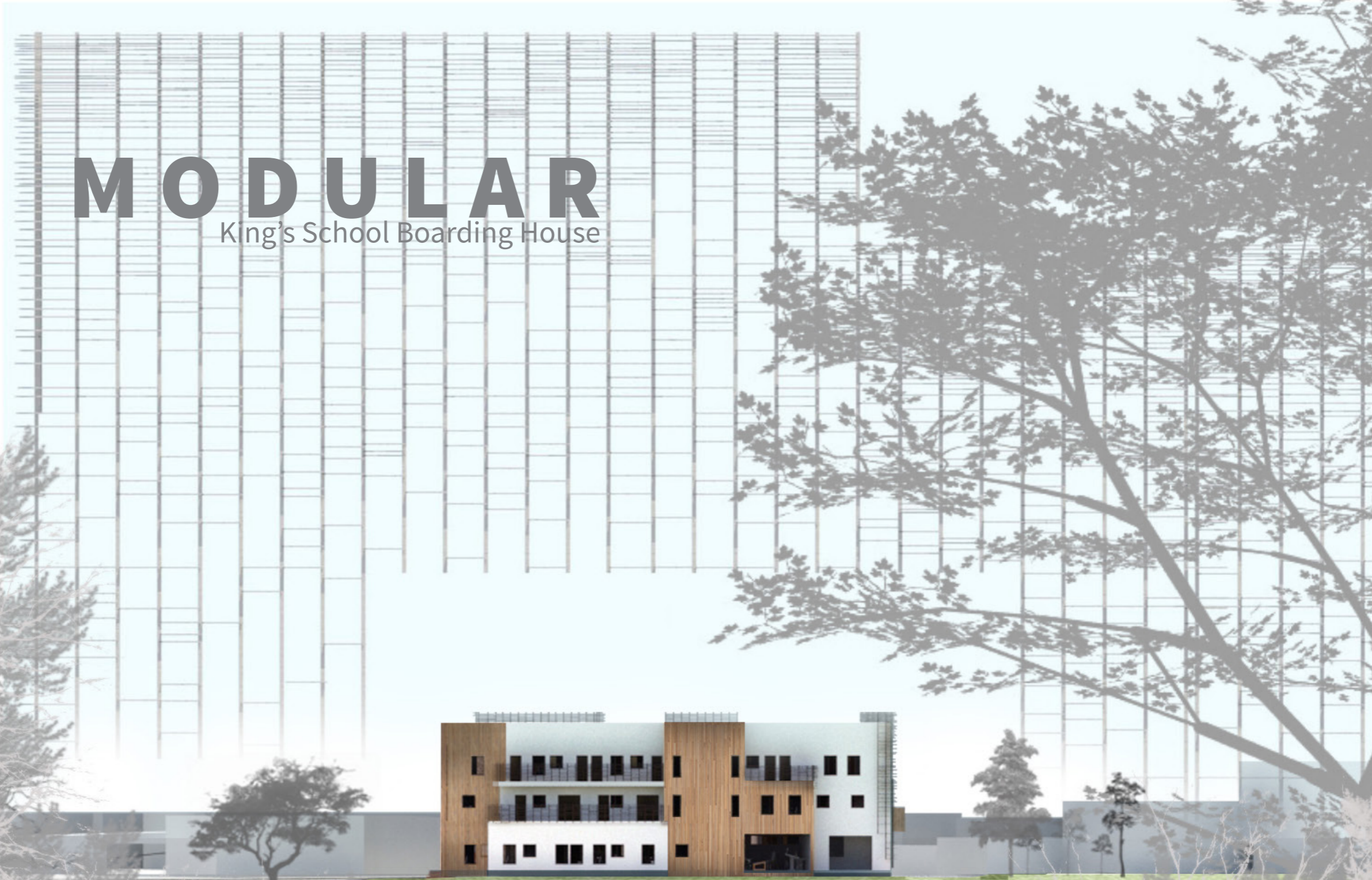
Student Maisonette Section



Castle view through a student maisonette

MODULAR

King's School Boarding House



Phase 1: MODULAR MASTERPLAN

RESIDENTIAL AND EDUCATIONAL DEVELOPMENT IN CANTERBURY

GROUP PROJECT//AUTUMN TERM//STAGE 3//

PROJECT SUPERVISOR

Tom Sweet

tps7@kent.ac.uk

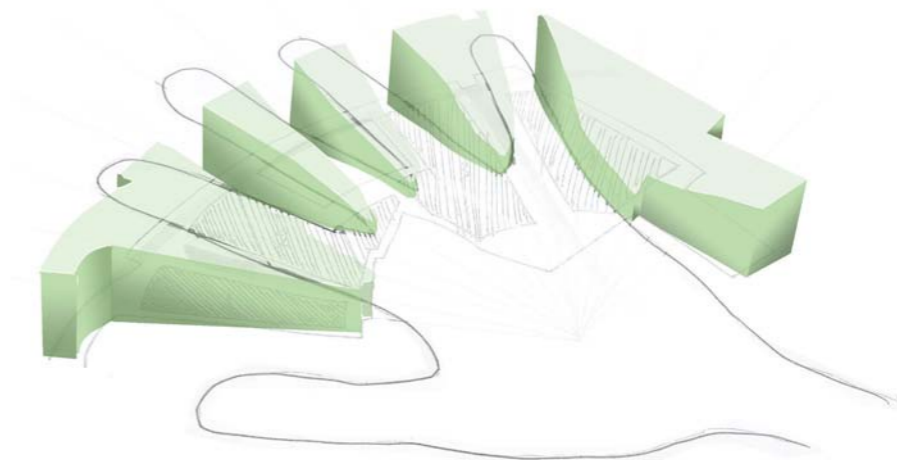
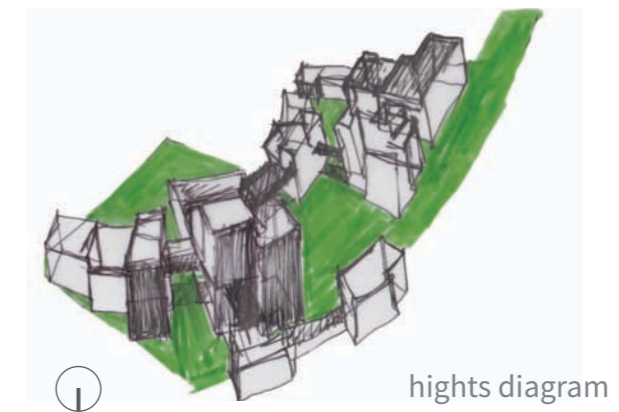
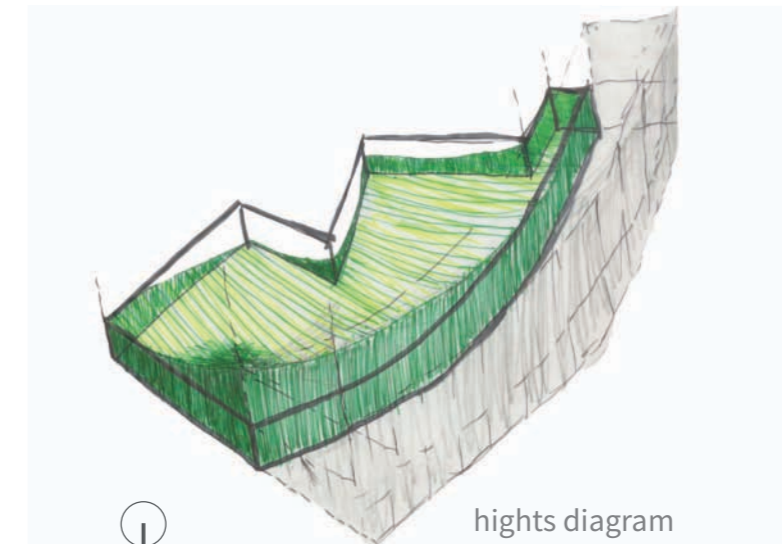


CONCEPT & SITE

During the *MASTERPLAN* phase, *MODULAR* explores the coexistence of residential and educational activities at the Historical Centre of Canterbury, on a site which acts as a knot point of the urban fabric with the nearby woodland.

My input to the group included a solar study according to the site's geographic location, as well as the creation of a mass and heights diagram that would demonstrate the maximum height allowance on the site, in order to obtain maximum solar gain for each one of the four buildings.

Finally, I was asked to indicate a most suitable plan for the common open spaces and routes between the buildings, so I introduce a central square which would divide the educational units (1,2) from the residential (4,5).



the movement of the fingers of a palm was used to describe the main paths between the buildings

Phase 2: MODULAR SCHOOL BOARDING HOUSE

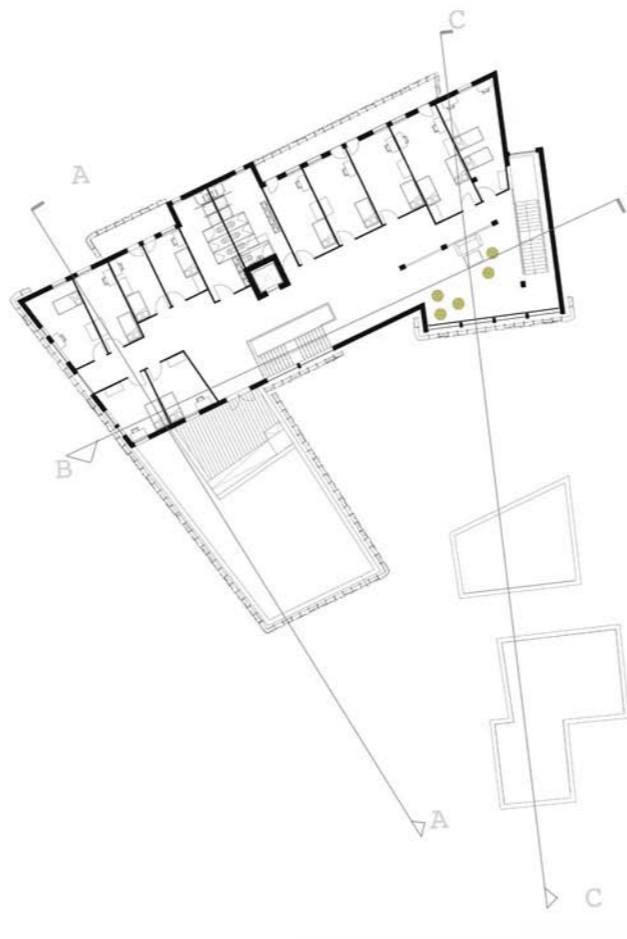
THE KING'S SCHOOL BOARDING HOUSE//HEADMASTER'S ACCOMODATION//STAFF STUDIO
INDIVIDUAL PROJECT//AUTUMN TERM//STAGE 3//



Ground Floor



First Floor



Second Floor

CONCEPT

Instead of uniformity, modularity is incorporated as a tectonic method to express a diversity in the space.

The main idea derived from the need to change the typical form of a boarding house, inspired by Herman Herzberger's scope for learning. The boarding house will offer new facilities to 55 pupils between 12-18 years old, in a flexible space, designed accordingly to replace the typical rows of classrooms and corridors with communal learning spaces.

A maisonette and a studio apartment for the house master and a member of the staff were placed at the entrance of the boarding house for better supervision. Their separation from the main building also provides some privacy to the students, a motivation towards their independent young adult life.



AA Section

THE SCHOOL BUILDING AS A CITY

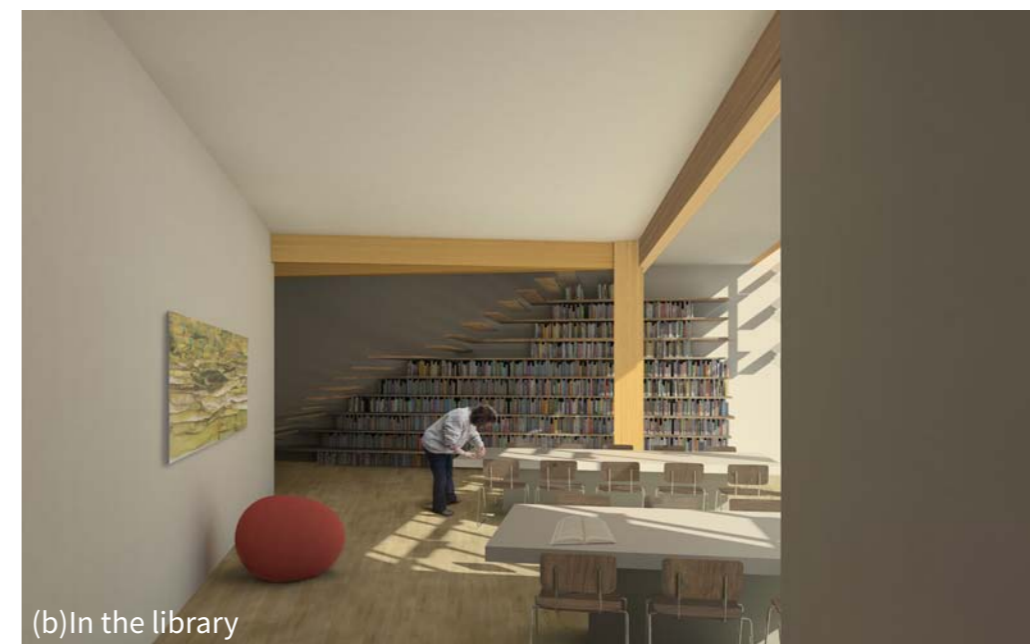
- a complex of streets and squares
- open, shared spaces (public) ≠ closed-off spaces (private)

In the public spaces students come in contact with each other, shaping their first social behaviours and relationships. The 'main square' of the boarding house, the communal area, is where community based activities are being held, where teachers, students and parents come together.

Teenagers have a great deal that they want to show each other. With my design I tried to put forward a constant game of looking and being watched, concealing and revealing, showing and observing. This was achieved by optical connections through different rooms, floors and buildings (a and b views).



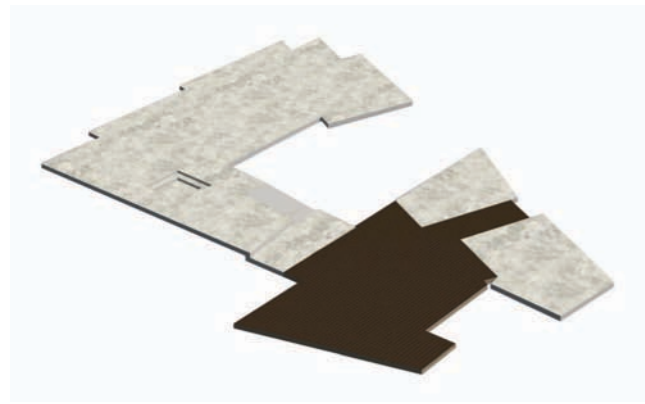
(a)Stepping in the boarding house



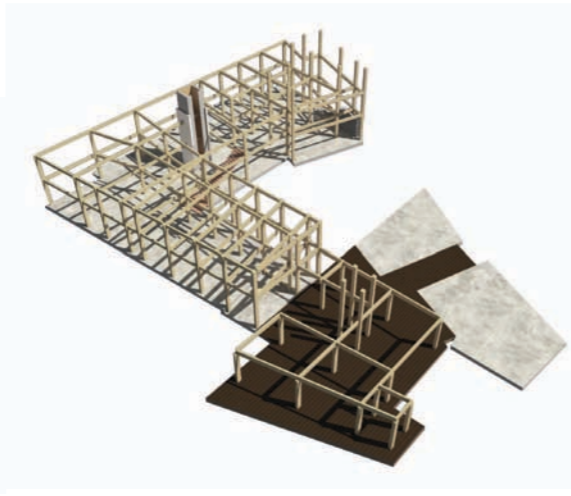
(b)In the library



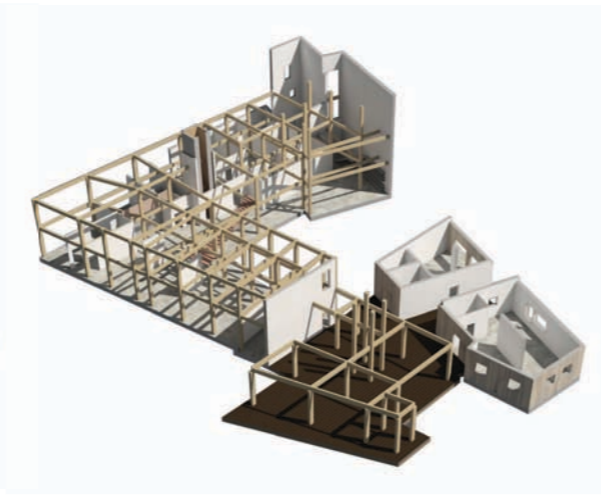
BB Section



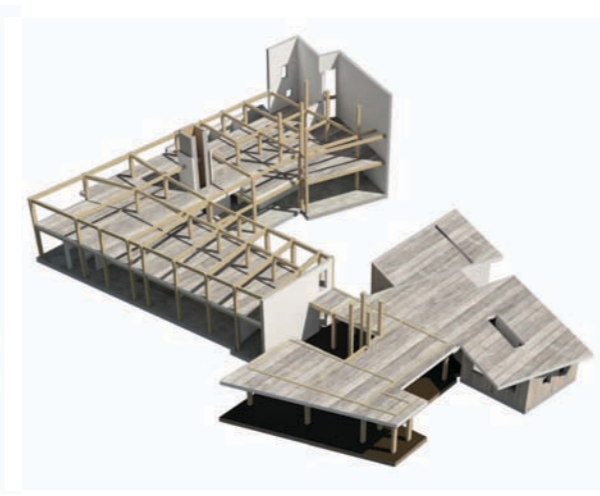
ground floor concrete slab on foundations



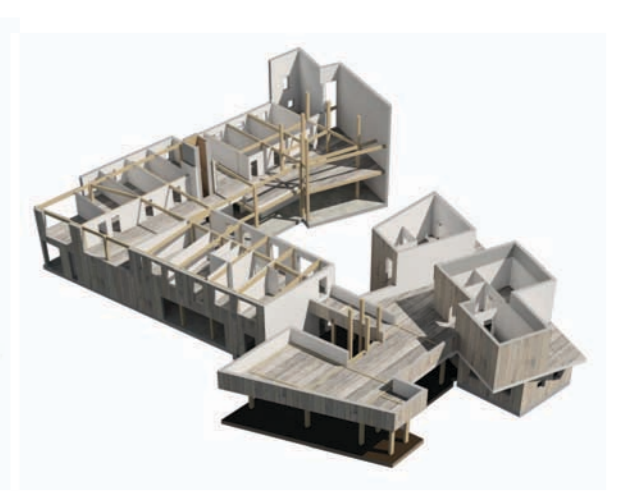
ground and 1st floor glulam timber structure



ground floor CLT panels-walls



1st floor CLT slab



1st floor CLT panels-walls



2nd floor CLT slab



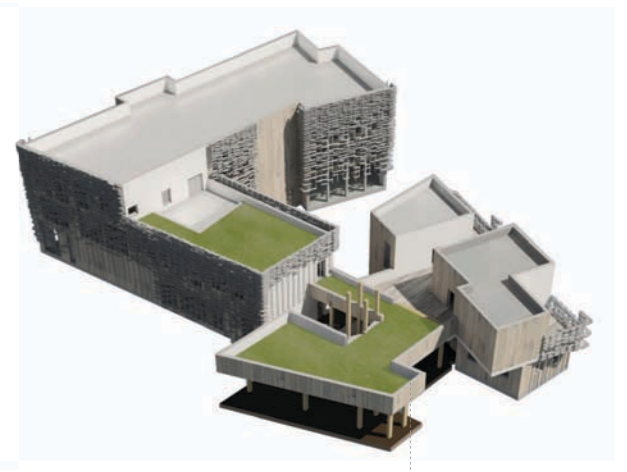
2nd floor CLT panels-walls



roof slabs



curtain walls and windows

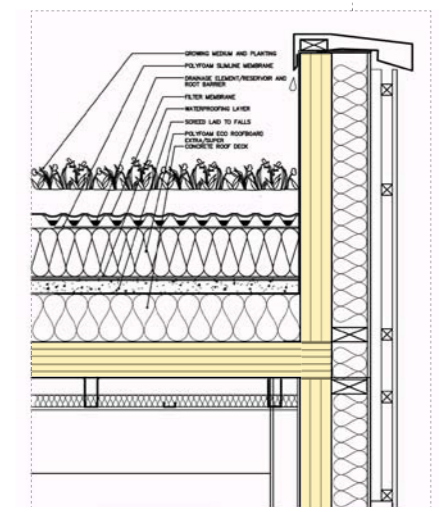


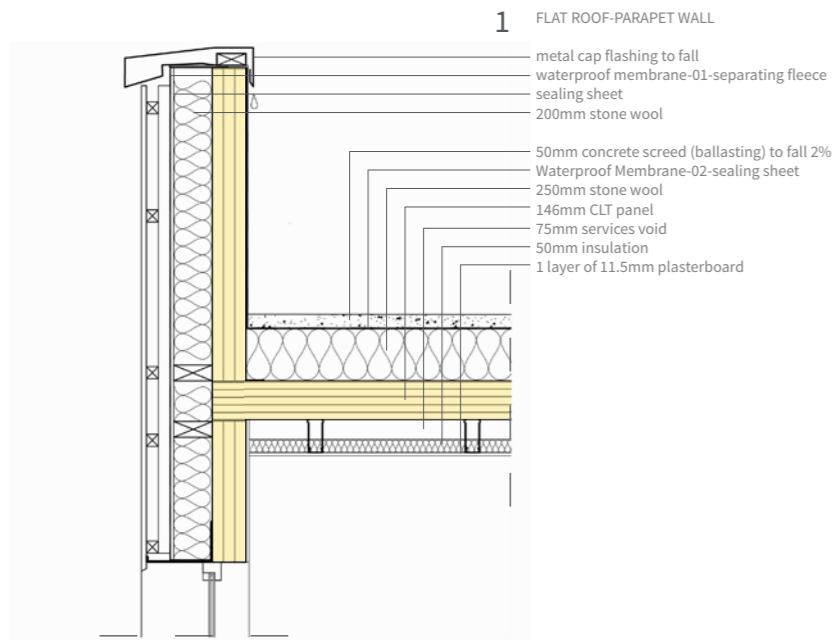
louvres façade

CONSTRUCTION SEQUENCE

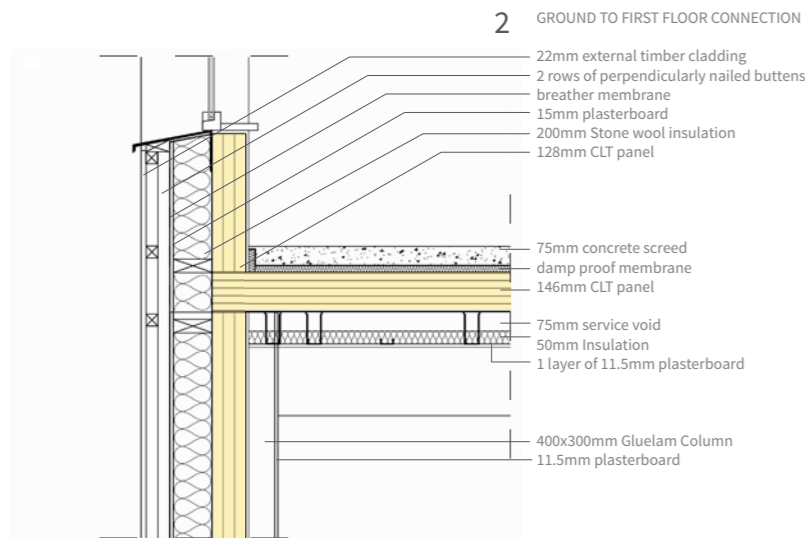
The cascading design of the building promotes its social character by providing additional exterior communal spaces. A rigid grid of glulam columns and beams for the ground floor and the first floor was chosen to withstand the additional weight from the green roofs. The top floor is entirely built out of CLT panels.

Minimising the environmental impact, timber allows for a lightweight structure to be craned directly on site and efficiently express the cascading design of the building.

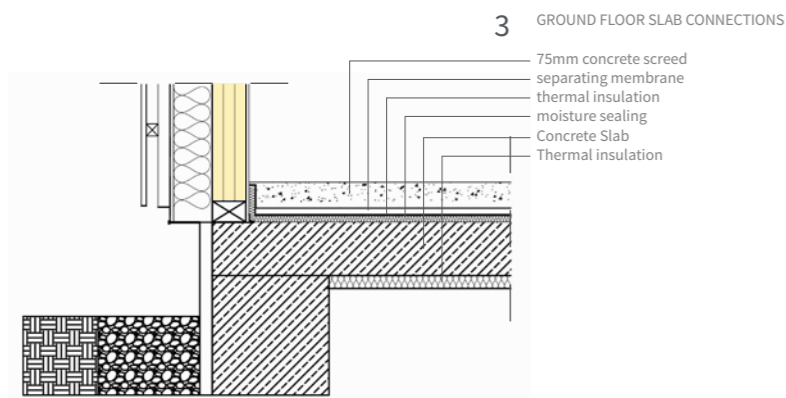




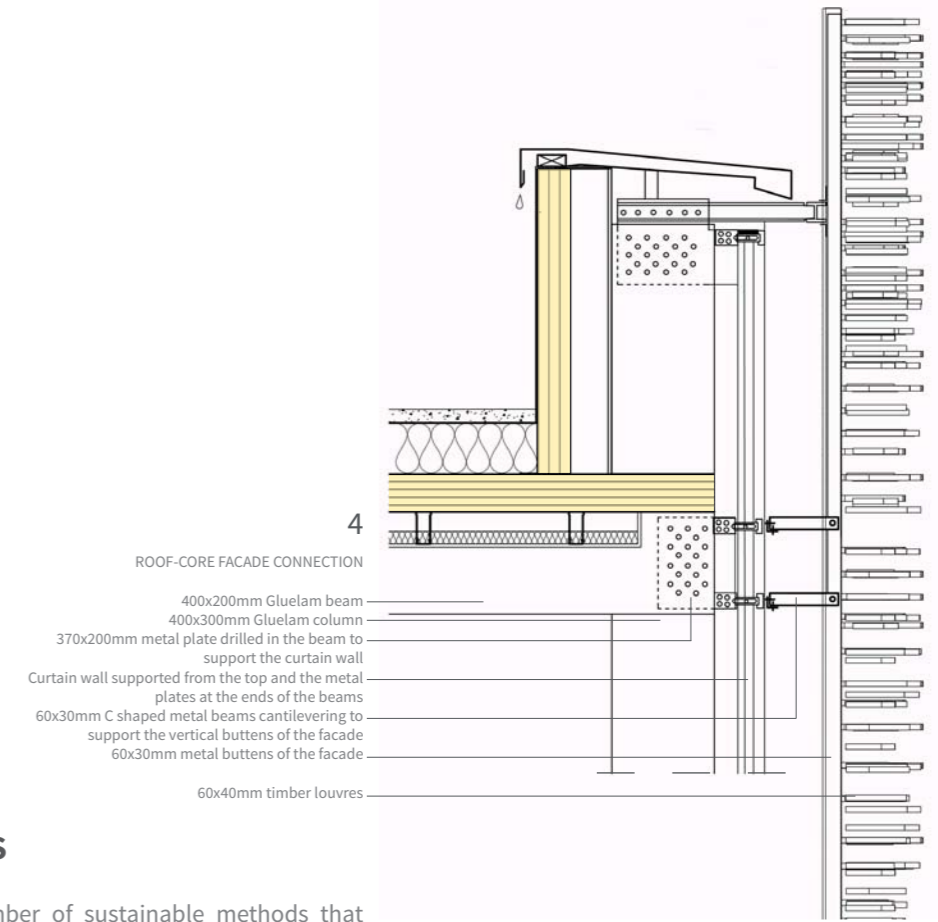
- 1 FLAT ROOF-PARAPET WALL**
- metal cap flashing to fall
 - waterproof membrane-01-separating fleece sealing sheet
 - 200mm stone wool
 - 50mm concrete screed (ballasting) to fall 2%
 - Waterproof Membrane-02-sealing sheet
 - 250mm stone wool
 - 146mm CLT panel
 - 75mm services void
 - 50mm insulation
 - 1 layer of 11.5mm plasterboard



- 2 GROUND TO FIRST FLOOR CONNECTION**
- 22mm external timber cladding
 - 2 rows of perpendicularly nailed buttens
 - breather membrane
 - 15mm plasterboard
 - 200mm Stone wool insulation
 - 128mm CLT panel
 - 75mm concrete screed
 - damp proof membrane
 - 146mm CLT panel
 - 75mm service void
 - 50mm Insulation
 - 1 layer of 11.5mm plasterboard
 - 400x300mm Gluelam Column
 - 11.5mm plasterboard



- 3 GROUND FLOOR SLAB CONNECTIONS**
- 75mm concrete screed
 - separating membrane
 - thermal insulation
 - moisture sealing
 - Concrete Slab
 - Thermal insulation



- 4 ROOF-CORE FACADE CONNECTION**
- 400x200mm Gluelam beam
 - 400x300mm Gluelam column
 - 370x200mm metal plate drilled in the beam to support the curtain wall
 - Curtain wall supported from the top and the metal plates at the ends of the beams
 - 60x30mm C shaped metal beams cantilevering to support the vertical buttens of the facade
 - 60x30mm metal buttens of the facade
 - 60x40mm timber louvres

ENVIRONMENTAL STRATEGIES

My research on sustainability since phase 1 was put forward in a number of sustainable methods that would provide energy and resources efficiency to the school boarding house, creating a healthy educational environment.

Passive Ventilation

- Single sided students' rooms
- Stack Ventilation through stair wells
- Cross Ventilation apartments

Passive Solar

- PV panels electricity
- Solar Thermal panels hot water

Passive Water Treatment

- Septic Tank treatment of sewage on site
- Rainwater Tank rainwater for WC

Passive Heating

- Earth tube system additional heating
- Wood pellet boiler
- Increased depth of the concrete screed on the ground floor provides thermal mass

Passive Cooling

- Earth tube system regulates temperature
- Façade louvres shading, reduce sunlight exposure
- Ventilation grills open during the night in the summer let the cold breeze cool down the temperature of the building



LANDSCAPE



LANDSCAPE WELLNESS CENTRE

WELLNESS CENTRE//OARE COUNTRY PARK//FAVERSHAM//KENT

//AUTUMN TERM//STAGE 2//



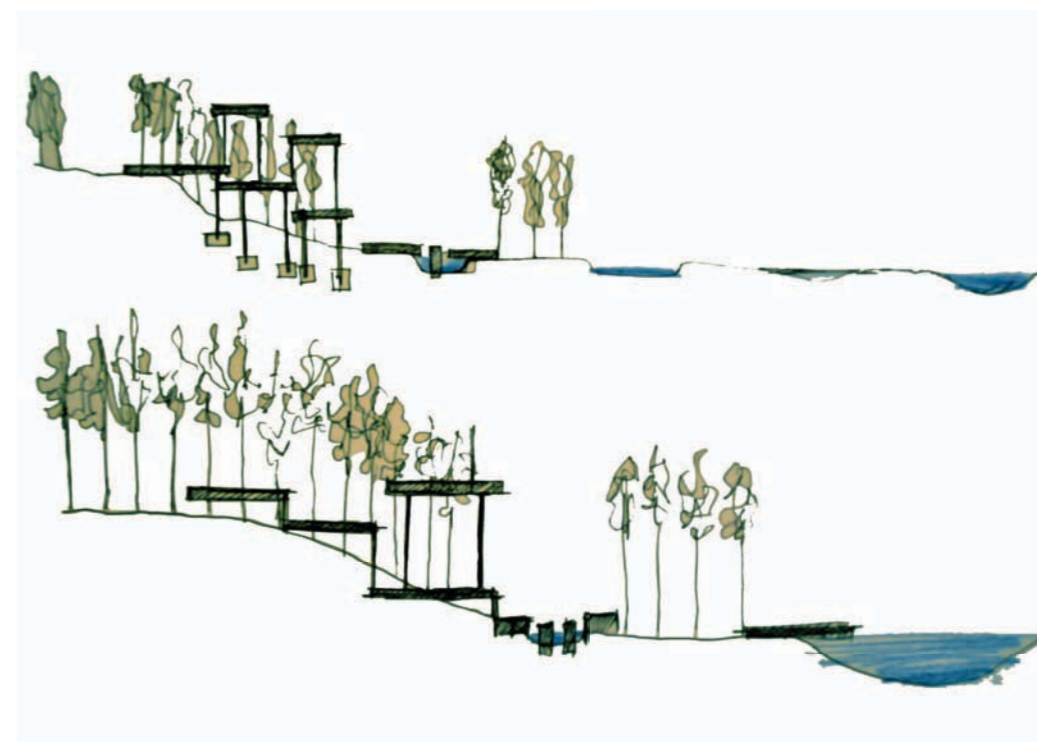
CONCEPT AND SITE

The LANDSCAPE project addresses the transformation of a historical gunpowder park into a therapeutic environment for people with mental disorders.

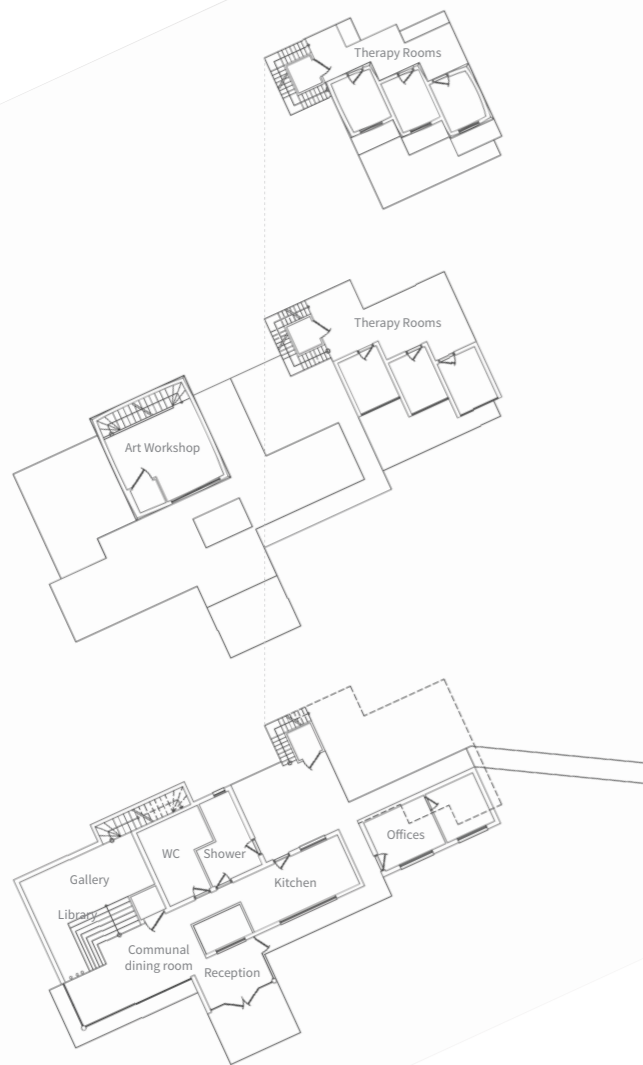
The new site plan incorporates the existing landscape, while introduces the new horticultural facilities to be hosted by the educational health centre. Vegetable and herb gardens, meditation and psychic relaxation grounds in a natural and scenic environment composed by picturesque leats crossing the historical ruins, and rich wildlife.



The proposed intriguing route in the park, reversed to the old manufacturing process, starts from the dense woodland, crosses the site to finish with a refreshing walk by the sunny wetlands.



The therapeutic nature of the brief and the war-related activity until the mid-20th century provoked a controversy, to be addressed through the design. It put forward the idea of a new building that would be lifted over the polluted ground, providing a genuinely healthy environment for its new visitors.



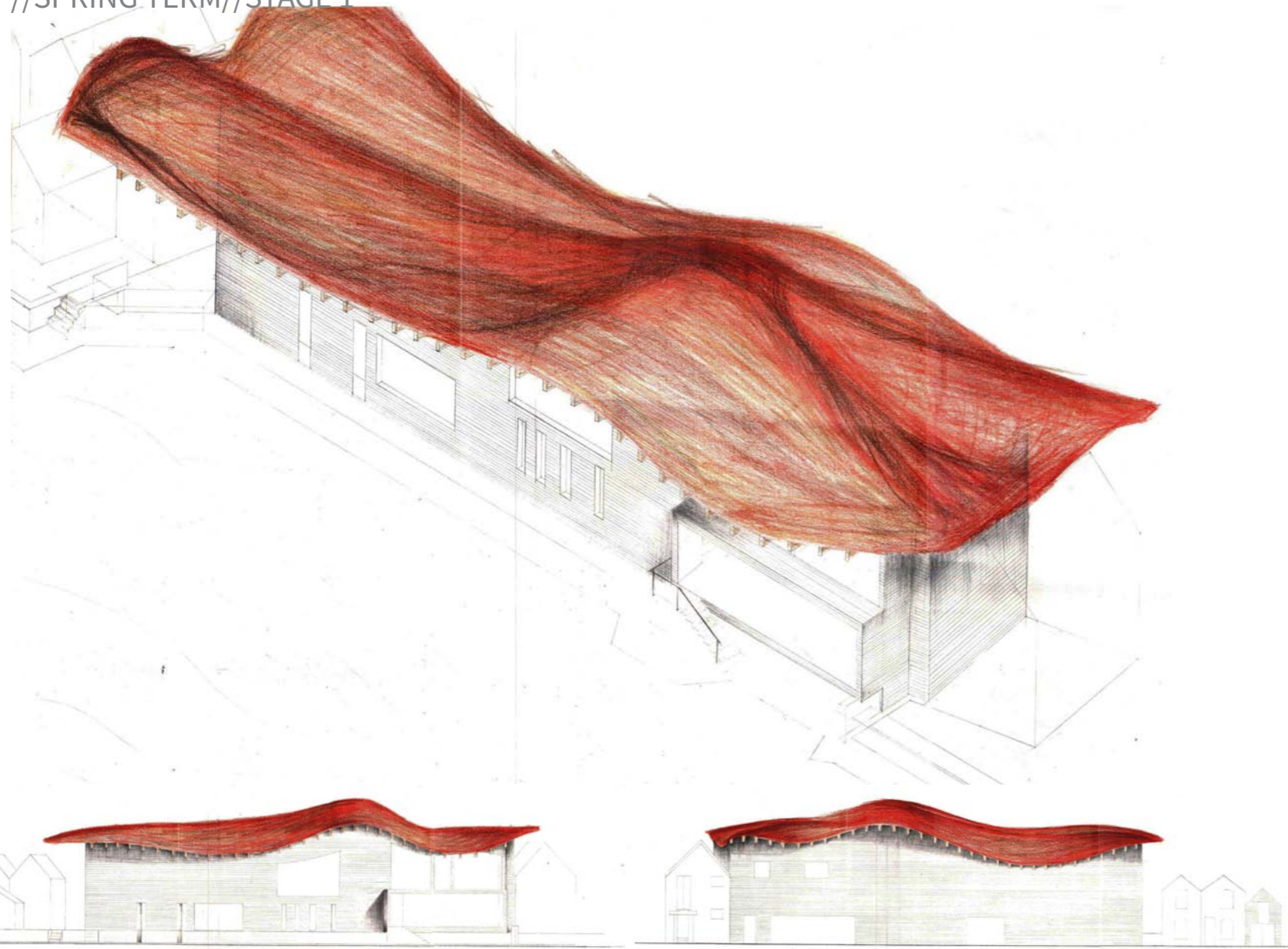
Communal Dining Room//day



Communal Dining Room//night

CARAVANSERAI

Art Gallery, cafe and Artist's residence at Whitstable Coast, Kent
//SPRING TERM//STAGE 1



FREEHAND DRAWING

