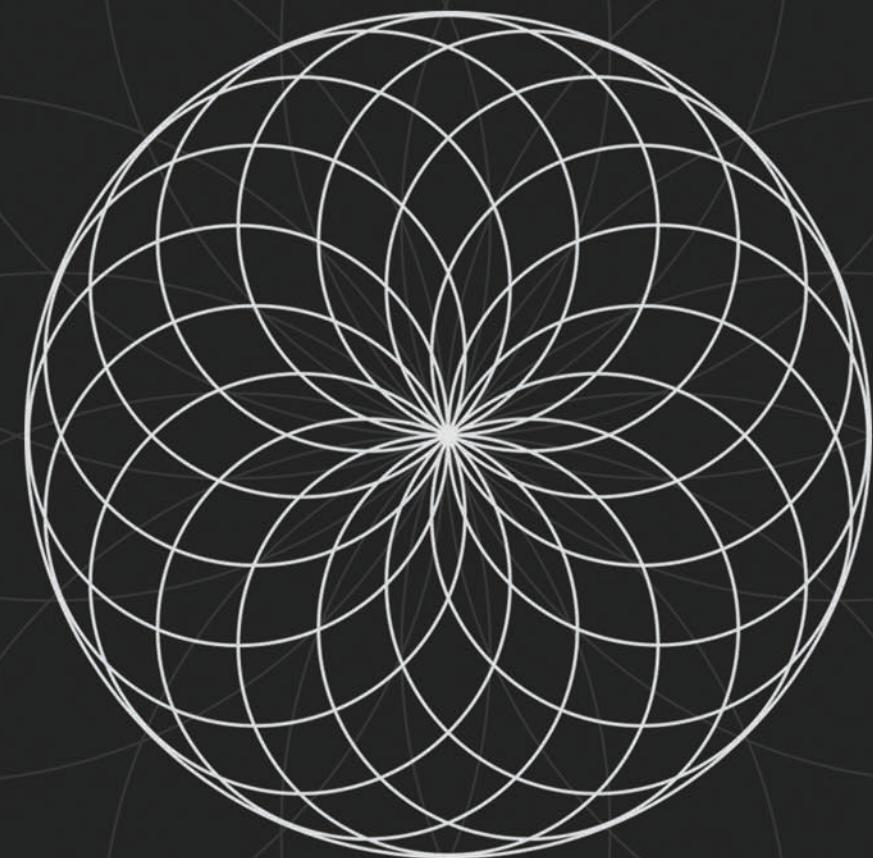


ANTHONY HONG | ARCHITECTURE PORTFOLIO



RENDERS | PHYSICAL MODELS | CONSTRUCTION DETAILS

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Projects

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Three views
apartment



09

Holiday
house



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NZ 3604 standard
design



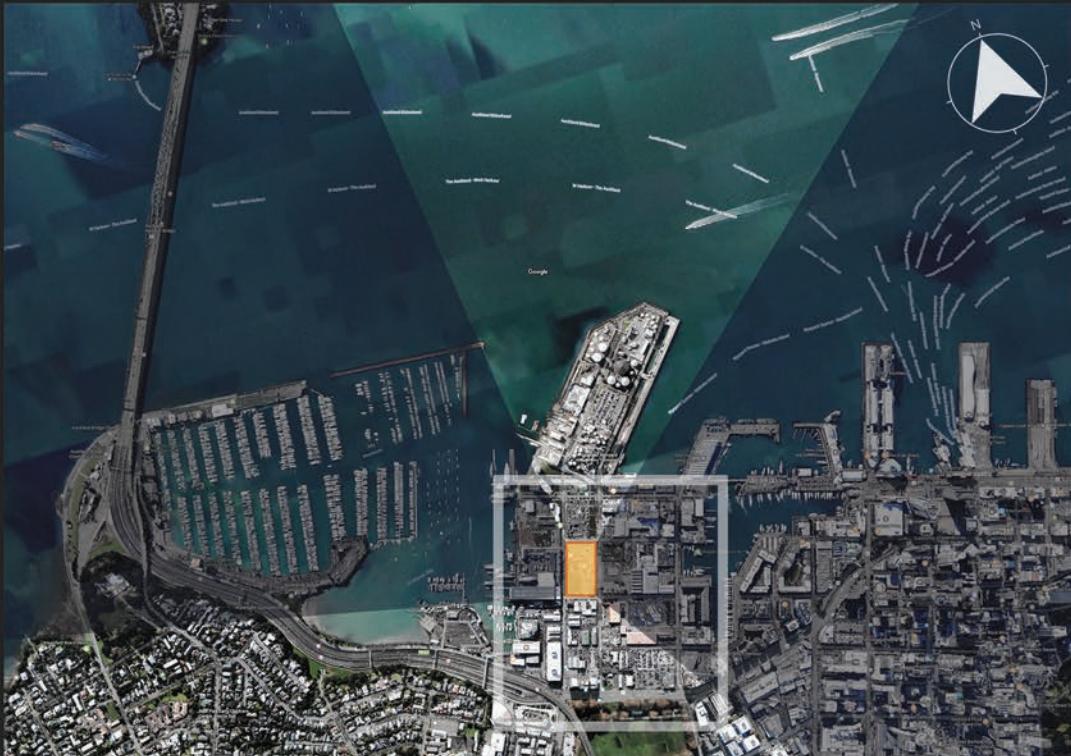
12

School of Architecture
and library



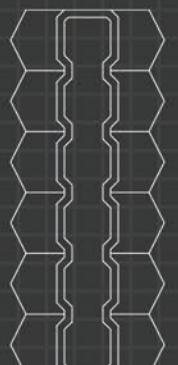
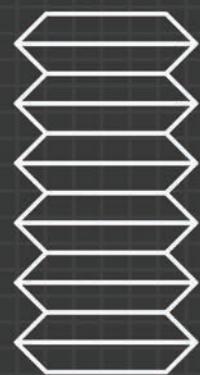
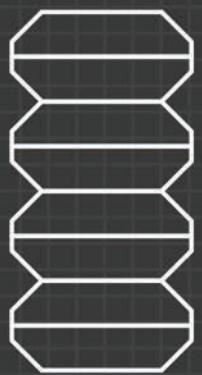
Site Plan - Three Views Apartment

Left view - Harbour bridge
Right view - Rangitoto Island / Sky tower

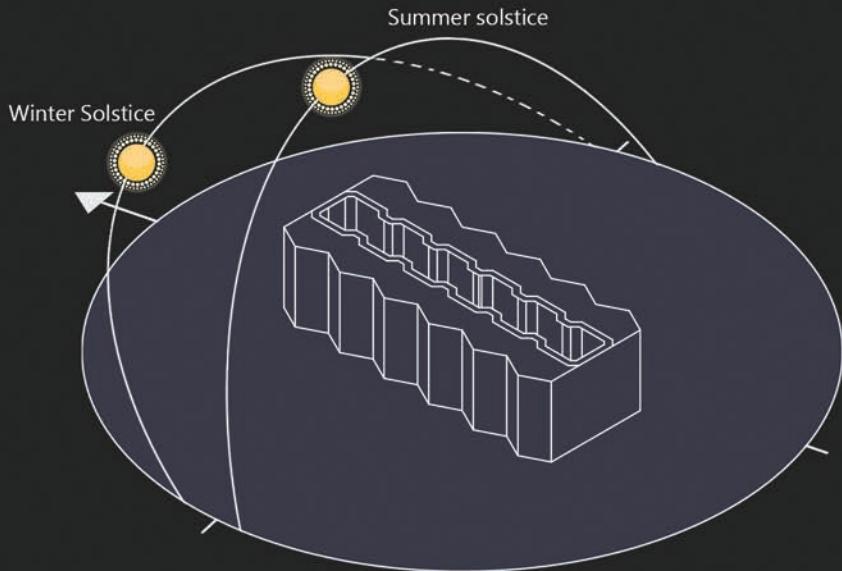


Form Development

A focus was intended on a geometrical progression within angular speculations with views towards the sea side and town resulting in a symmetrical quality to the apartment. Due to its balanced form, it allows the residents to adapt to the use of the sun's heat or shade throughout the day with ease. One key issue I thought about in urban modern day society was the lack of a visual and healthy start to the day, where one may perhaps remember their mornings greeted by an environment full of chirping birds, plants and trees. So I decided to implement an outdoor courtyard of green scenery to recreate this residential 'home-like feeling' within the surrounding apartment. The residents are even able to take a walk on the roof enjoying nature as well as the beautiful scenery to the sea side and the town in one course.



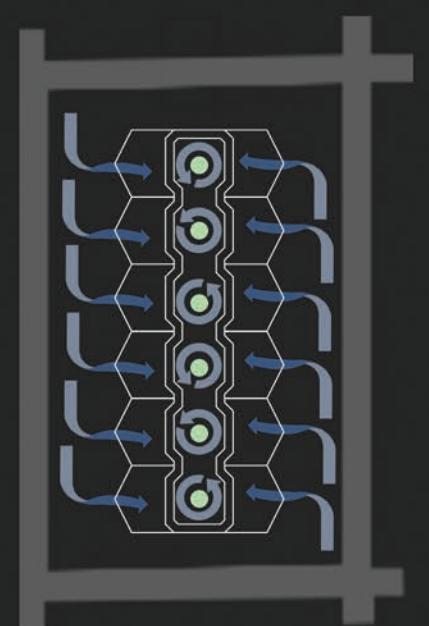
Seasonal Sunlight & prevailing winds



During the summer time, the sun's heat mainly radiates the uppermost part of the building. When the afternoon times approach the courtyard is bombarded with heat and since its surrounded by the whole building it will be harder for the hotness to dissipate over the afternoon periods. However, by incorporating trees (shown as green dots on the right side diagram) and a grassy terrain will reduce a significant amount of heat absorbed and ending up with a cooler surrounding for the apartment units. The trees will form shades in which rest areas will be covered and be of further assistance for the overall cooling.

In the winter times, the residents can be assured of the less heating due to a small axial displacement which hits mostly, the exterior side of the apartment as opposed to the summer periods. Since the building is already vertically high, the courtyard space will feel much colder during the winter season.

The wind from either North or South direction will be mostly the from the street winds. Heat inside the units will be cooled by opening the backyard doors for the ground floor and the balcony side for the upper floors.



Green zone



Top floor has an abundance of grass and bushes. Accompanying the area are the locational views across a wide area and lying down on the grass, a wide view of the skies.

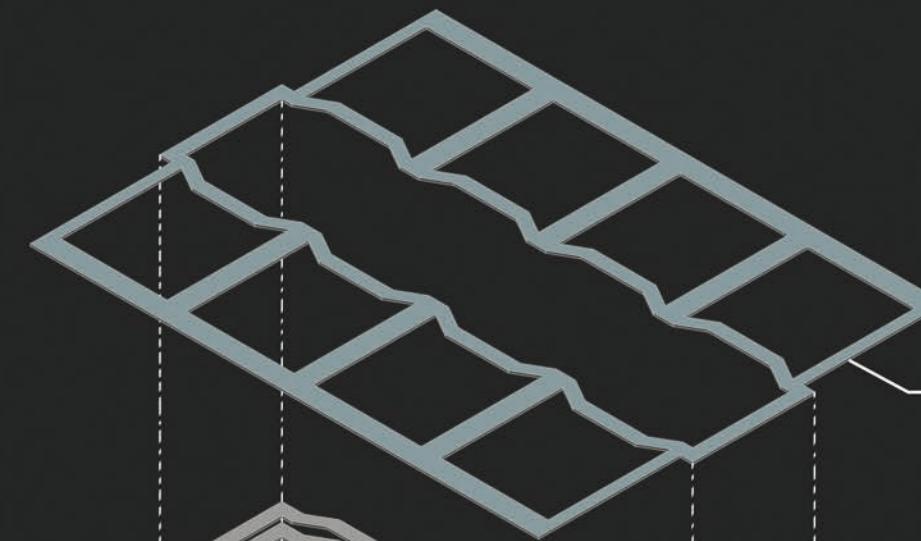


The vines covering the side wall of the whole apartment will significantly reduce the heat during the daytime where direct sunlight is unavoidable. This exterior greenery produces a serene and a nature's atmospheric quality to the existing surrounding buildings which entices this warm welcoming vibe.

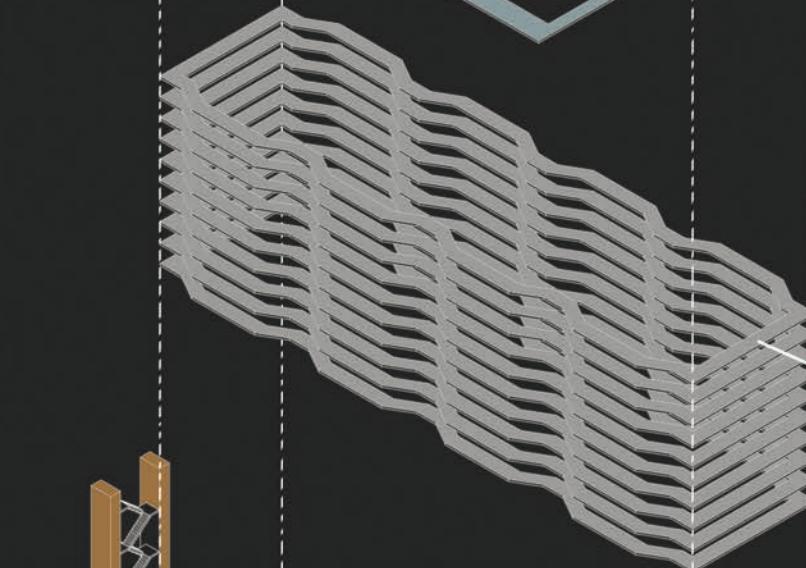


Ground floor units each have an outdoor backyard and also a wide expanse of courtyard on the other end. There are four big trees that will cover a wide area during the hot summer days and create cooling against the heat in most of the areas.

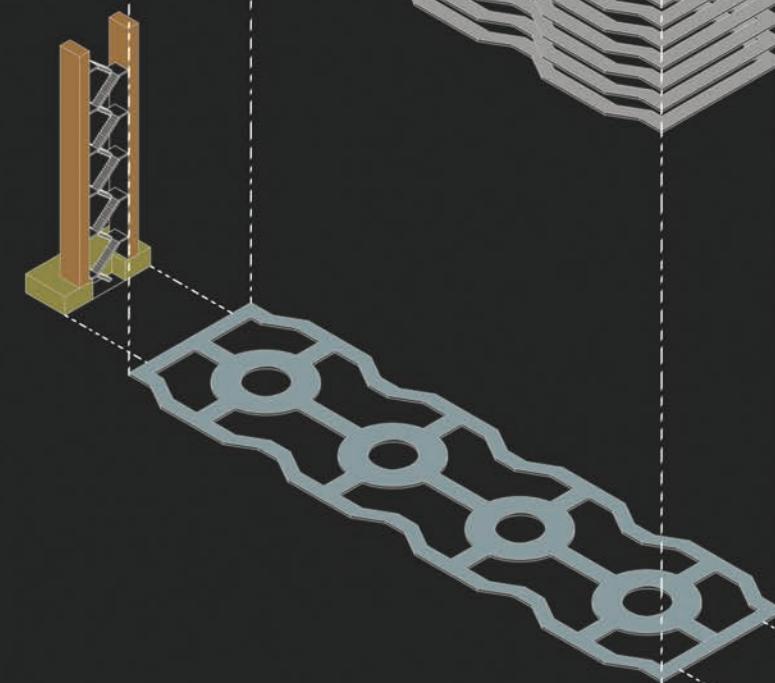
Circulation



Top and ground floor - Outdoor walkway area.



Main levels 1 to 10 - Walkways around the apartment.



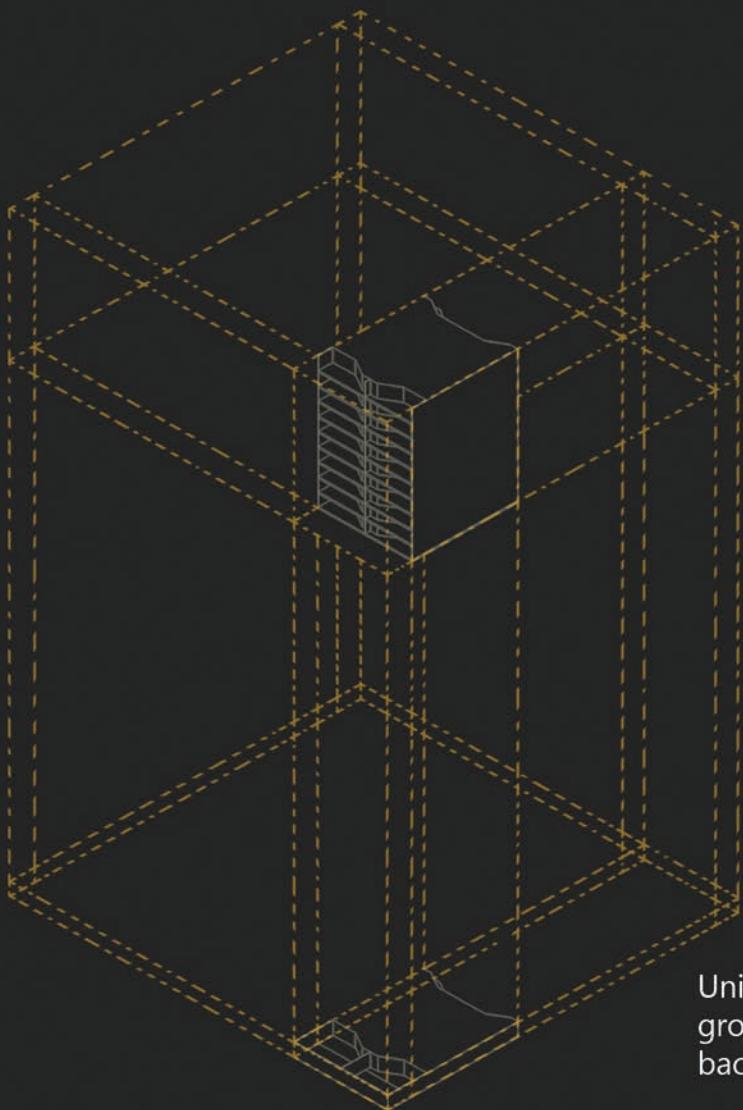
Elevator (2 in each side, 8 in total)

Emergency stairs.

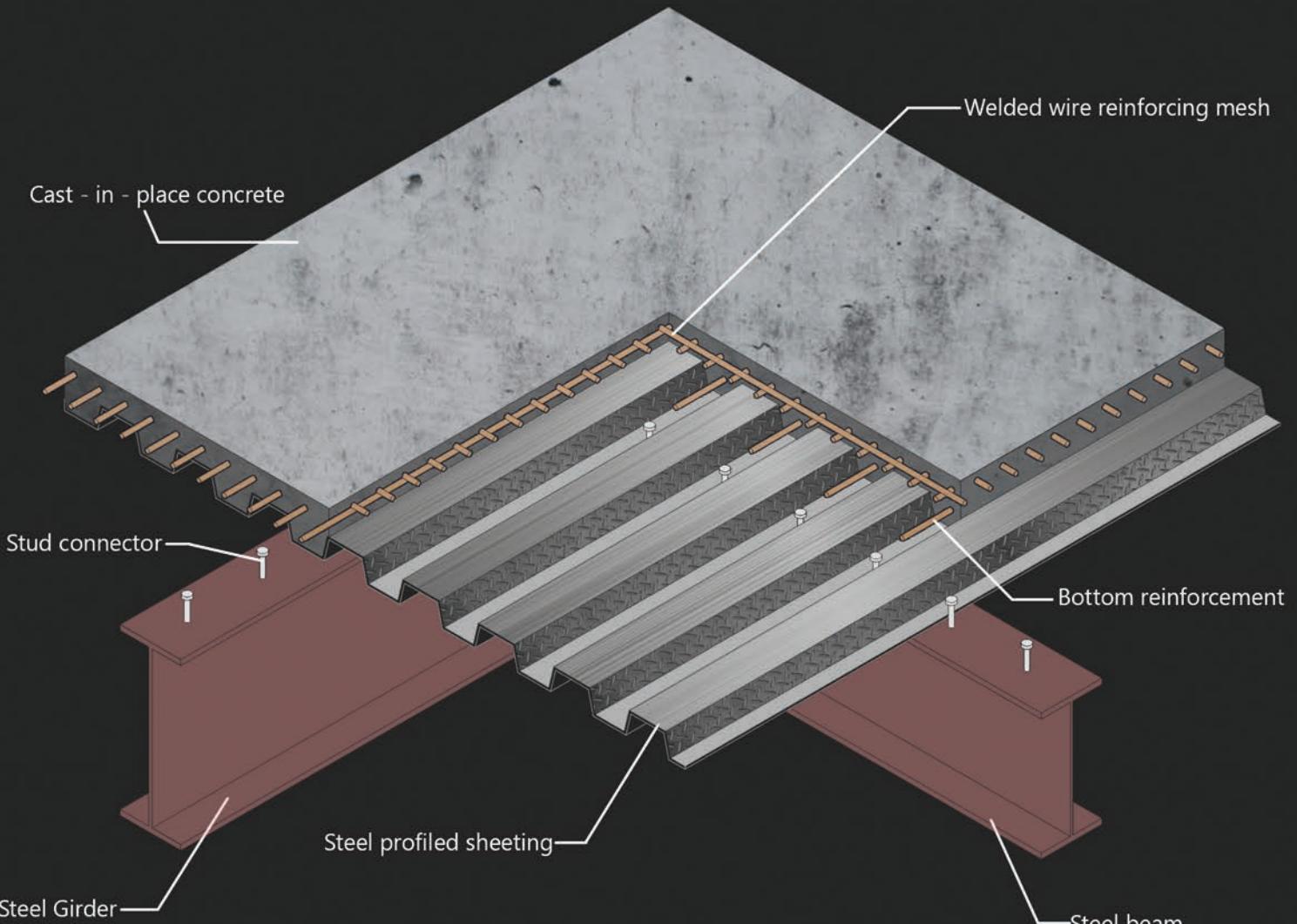
Reception and main entrance to apartment.

Interior layout & apartment units

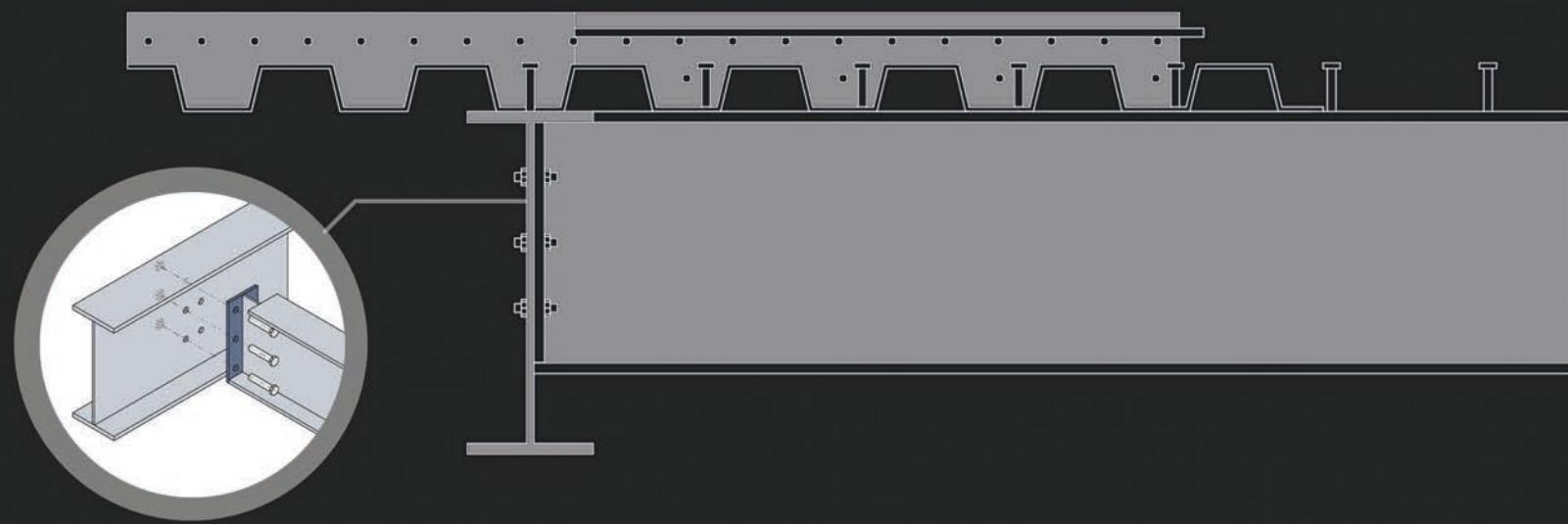
- 1) Outdoor deck (only available for units on level 1)
- 2) Lounge
- 3) Kitchen
- 4) Bedroom 1
- 5) Bathroom
- 6) Bedroom 2
- 7) Bedroom 3
- 8) Bathroom/Laundry
- 9) Guest room
- 10) Balcony (units from level 2 - 10)



Construction details - Concrete floor (Isometric view)



Front plan view









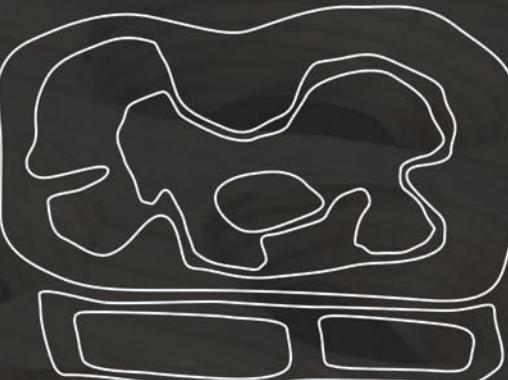




Site context



Family - Cave formation



Women - Leaves floating



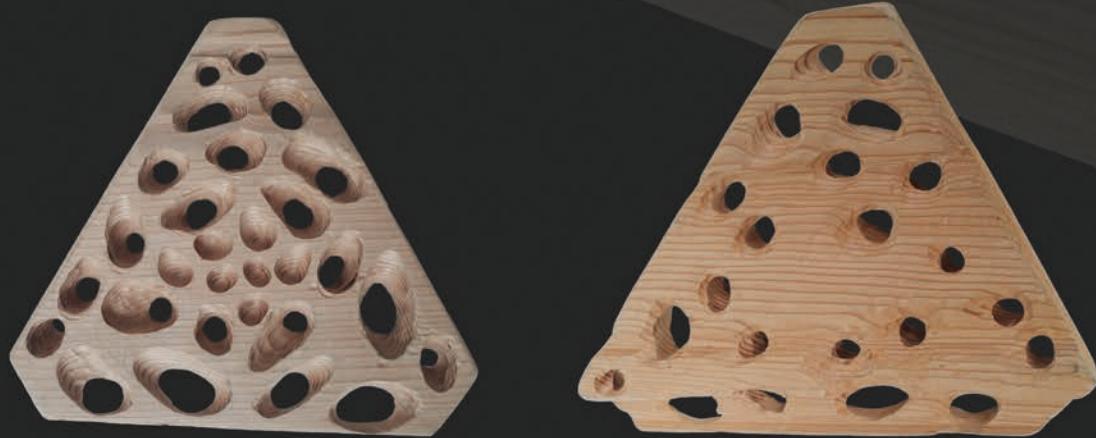
Concept - taking nature's form.

Equipment: Only using die grinder to carve nature's captured form into a living space.

Aim: Create holiday houses near the shores in New Zealand for a range of clients; Man (single), Women (single), family, young couple and retired couple.



Exploratory forms - Natural erosion



Young couple -Rocks on river stream



Man - Boulders



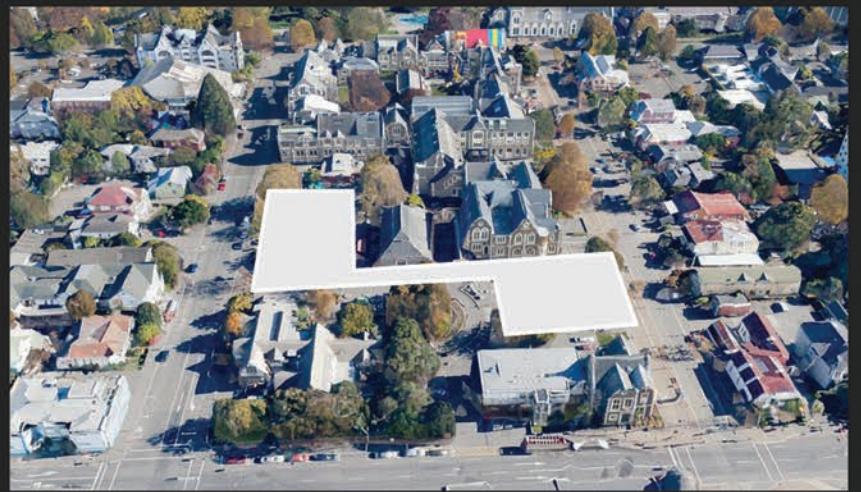
Retired couple - Ripples of rain drops



[NZ3604] Timber-frame house



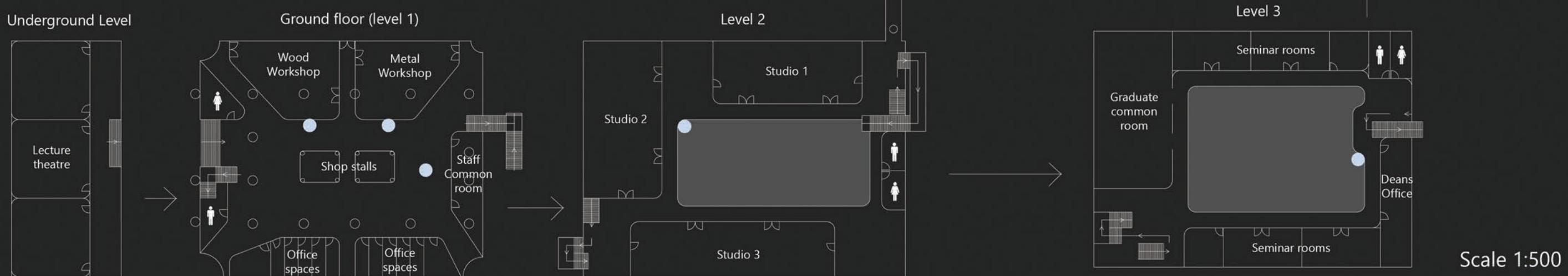
Site outline



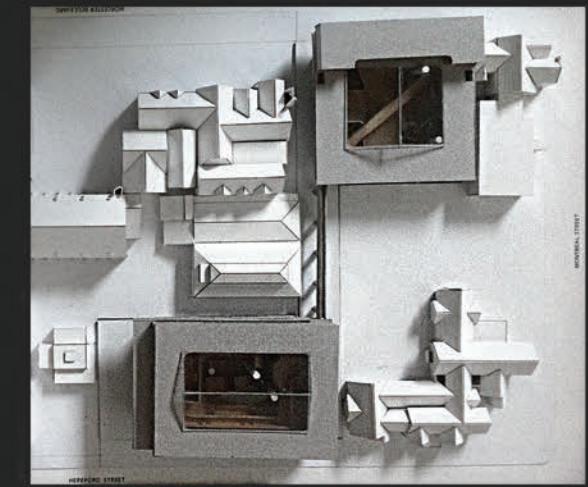
Brief: Design an architectural school and a library in between the given site shown in the diagram above.

Approach: My design is founded on the anatomy of a cell where every space is shaped according to their sense of individuality. As every component has its own shape and function I wanted to give the school a bit of functionality and efficient use of getting around to each level of spaces. This simple idea of replacing interior wall edges with a smooth curvature, nicely connects the place together as a whole and emphasizes a connatural aspect and warmth to accompany the enormous void of spaces. The main entrances have also been replaced with a curve which almost acts as a gesture of drawing attention or welcoming people. The street side entrances demonstrates this welcoming feeling and also from the internal passageways that allows immediate indication that without a doubt is a passage to the school. Another special feature is the elevators which are shown in light blue on the plan. Each one is allocated to specific levels only and in doing so, reduces the amount of time to reach appointed destinations. This allows for less waiting time and eliminates the outdated orderly fashion of old slow elevators for busy and complex spaces. Lastly, the bridge is another component I added to the connectivity for a fast circulation around the cores of the main building. In a way, this contact between the level 2 studio space and the library plays a significant role of naturally connecting the resource and workspace as a whole and can be compared to the Golgi body (acting as an intracellular transport) from an anatomical perspective of the cell. The main issue now was to work on a main light source that would illuminate the centre piece using less from an electricity source. So, I decided to create an atrium space directly on the centre of the box and shifted each level so that it zig-zagged each other to maximize the ground coverage of natural light during the day time.

Plan of the School of Architecture and library

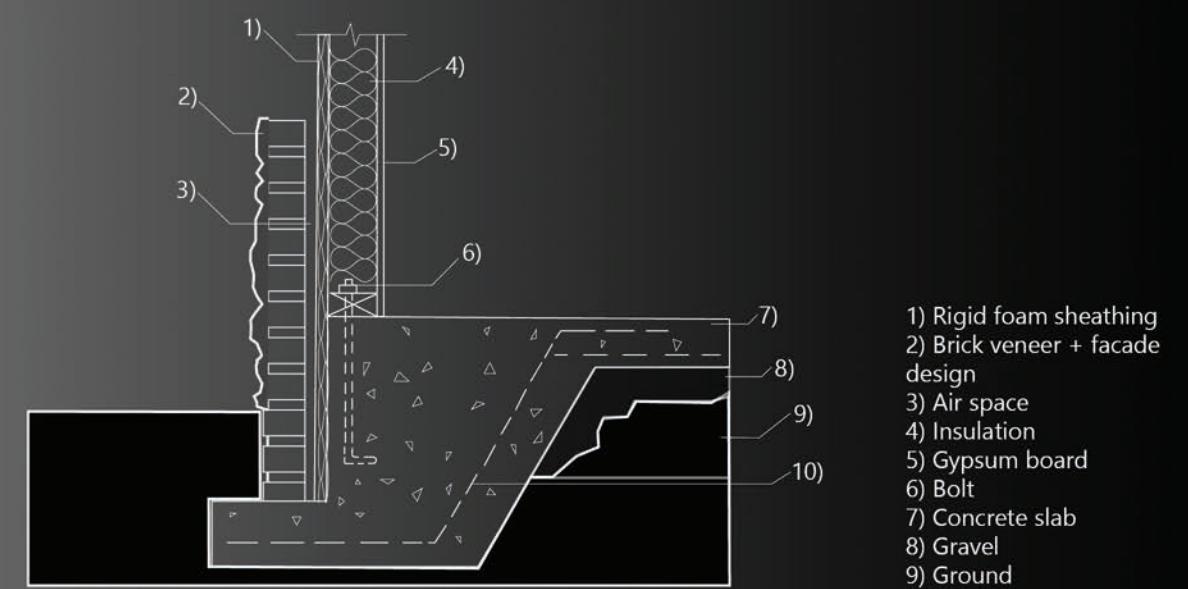
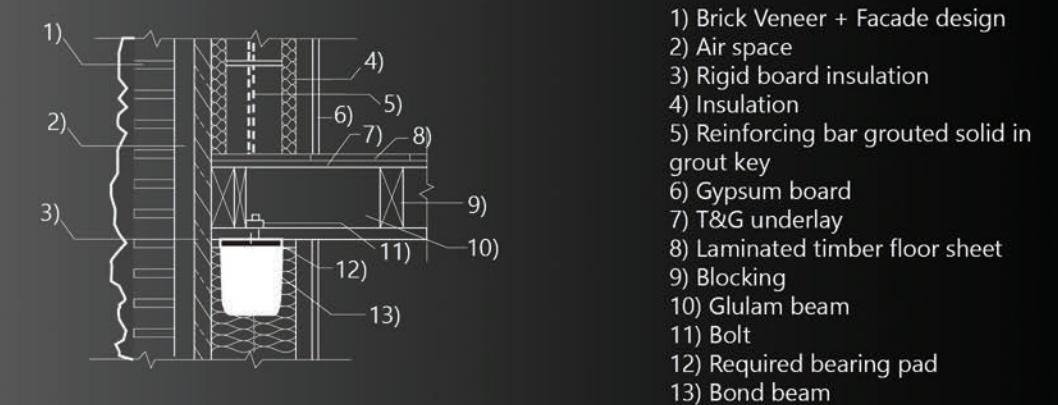
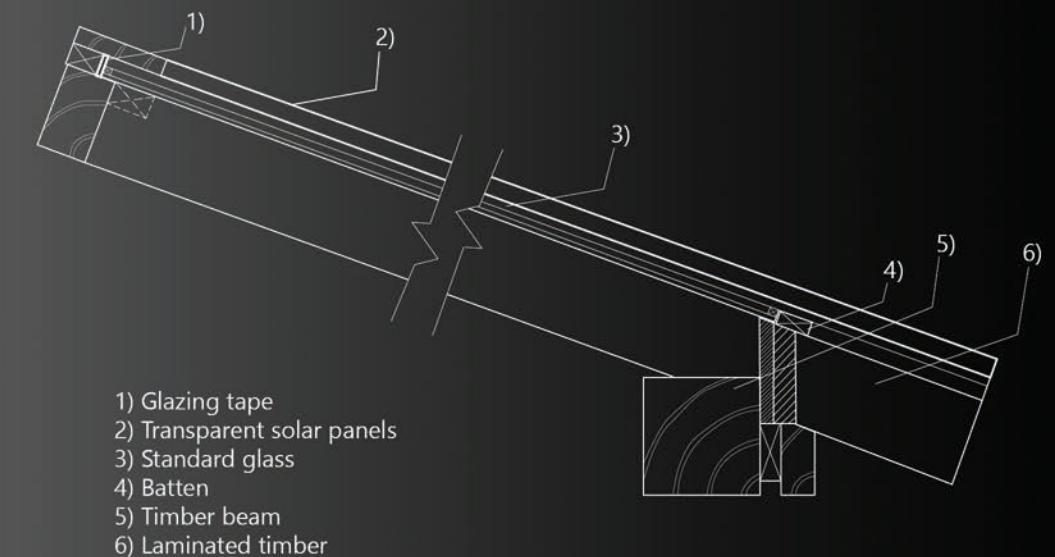
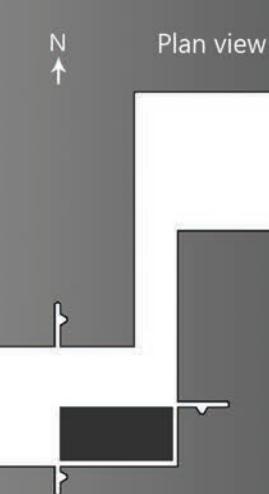


Model of school



Scale 1:500

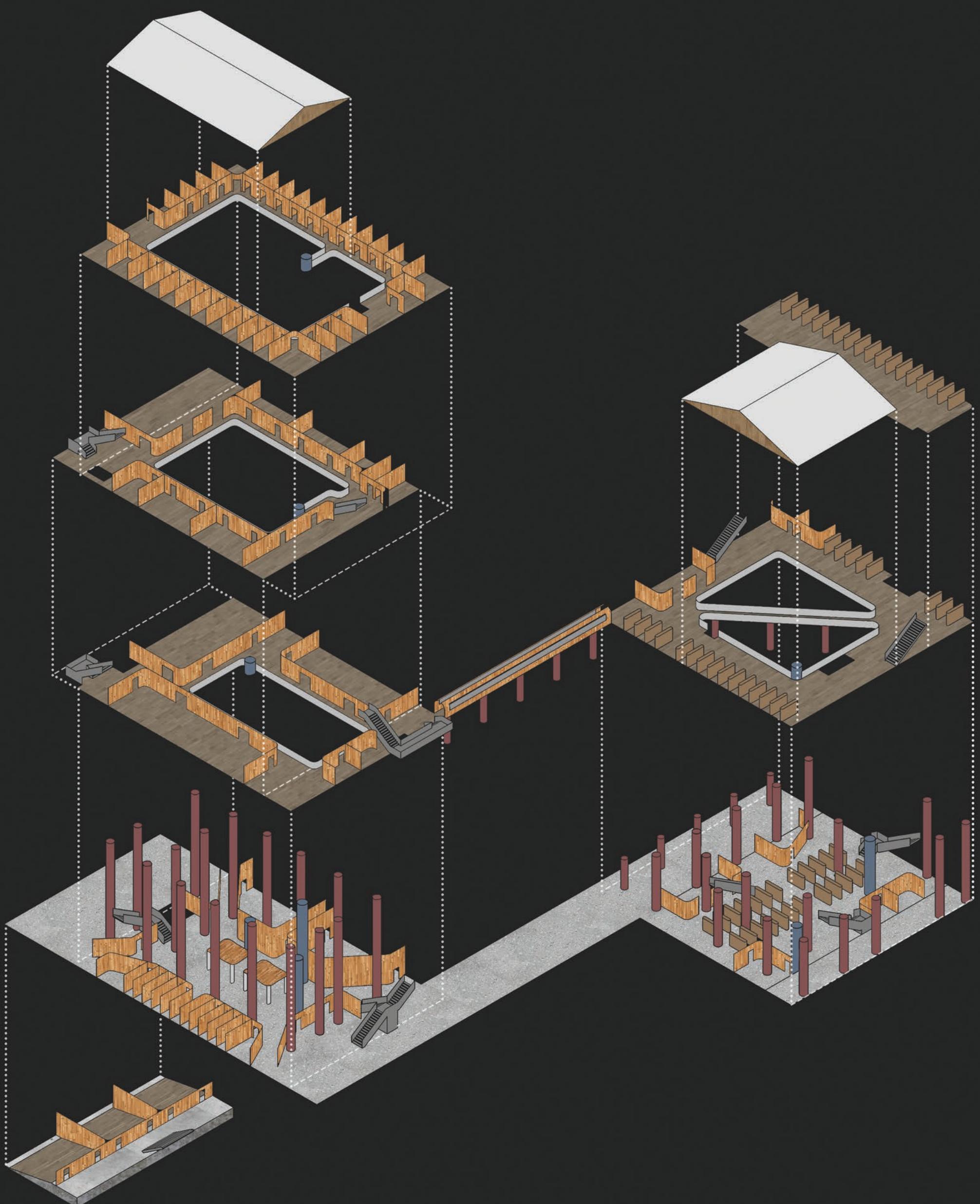
Section of the Architecture school
(Main atrium space)



Scale 1:50

(All construction details) Scale 1:20

Axonometric view of the school of Architecture and library





Not to scale



School of Architecture
(Architecture school + Library)

Site - The Arts Centre of christchurch

Client - Craig Moller

Name - Hong Hyun Chul

Due date - 07/11/14

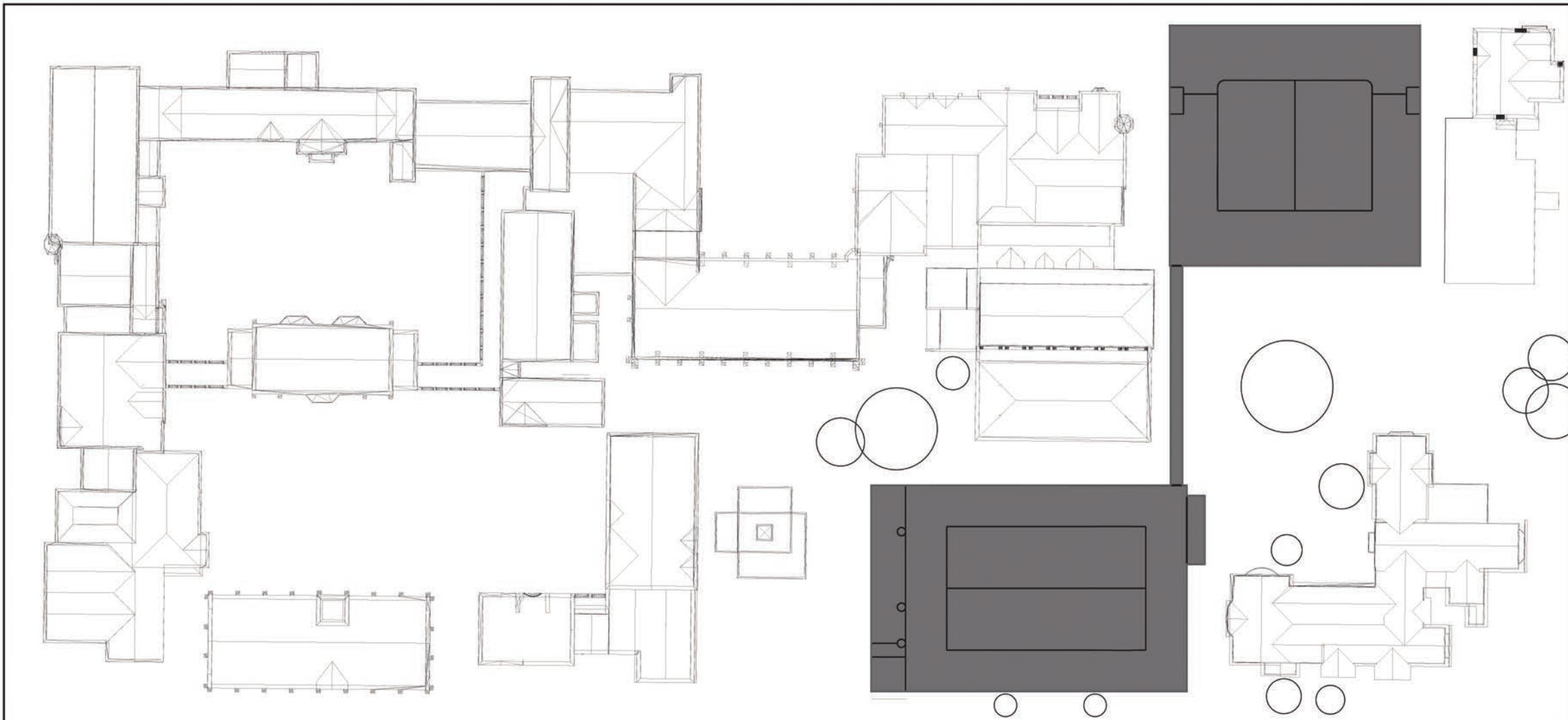
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at A3

All measurements in mm

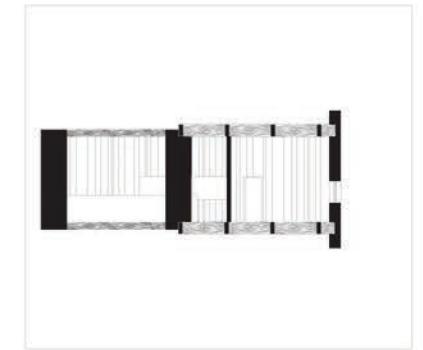
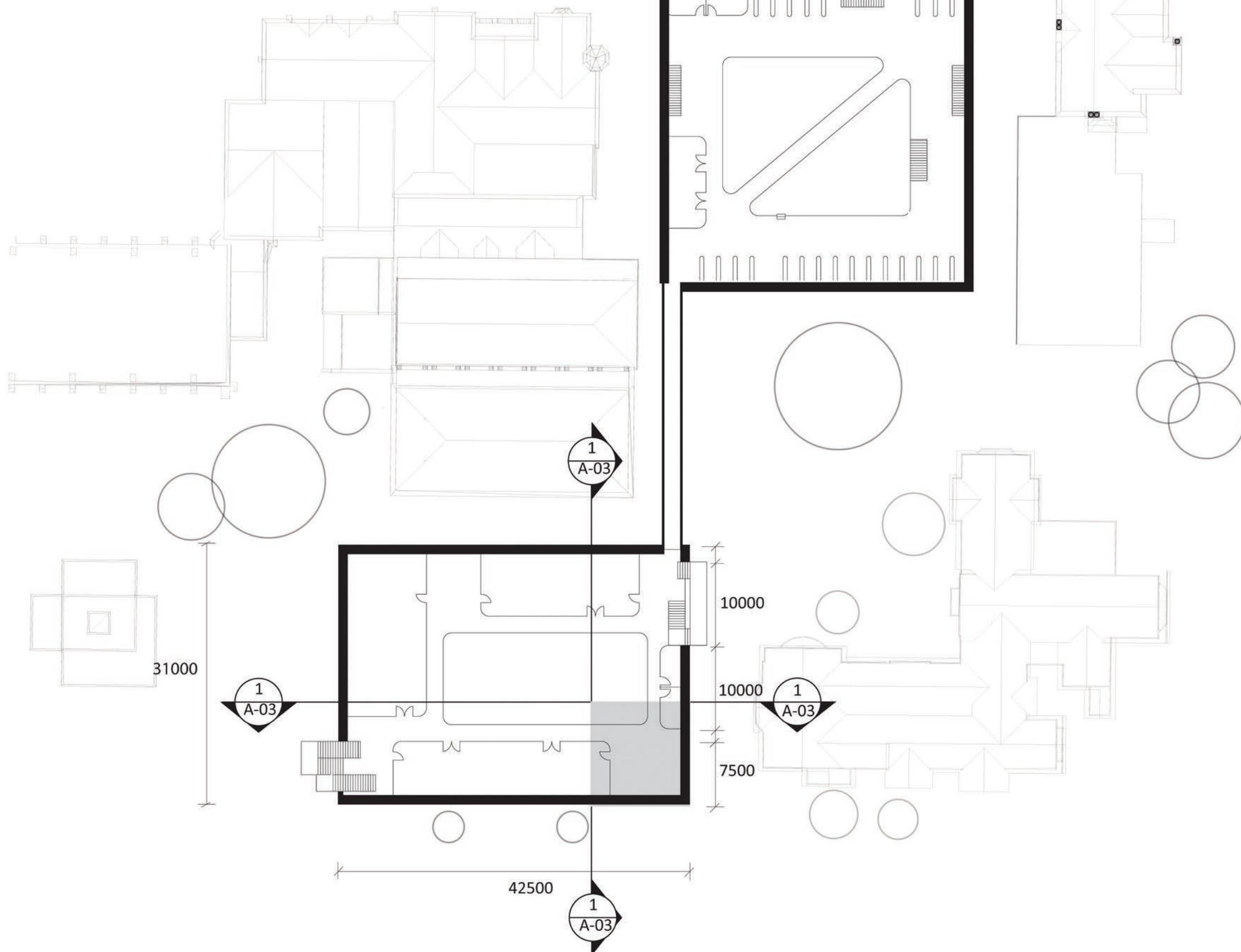
Building Plan (Architecture school and
the Library)



Worcester Blvd



Hereford St



Not to scale



ARCHITECTS

School of Architecture
(Architecture school + Library)

Site - The Arts Centre of christchurch

Client - Craig Moller

Name - Hong Hyun Chul

Due date - 07/11/14

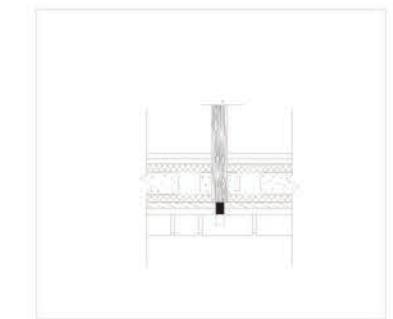
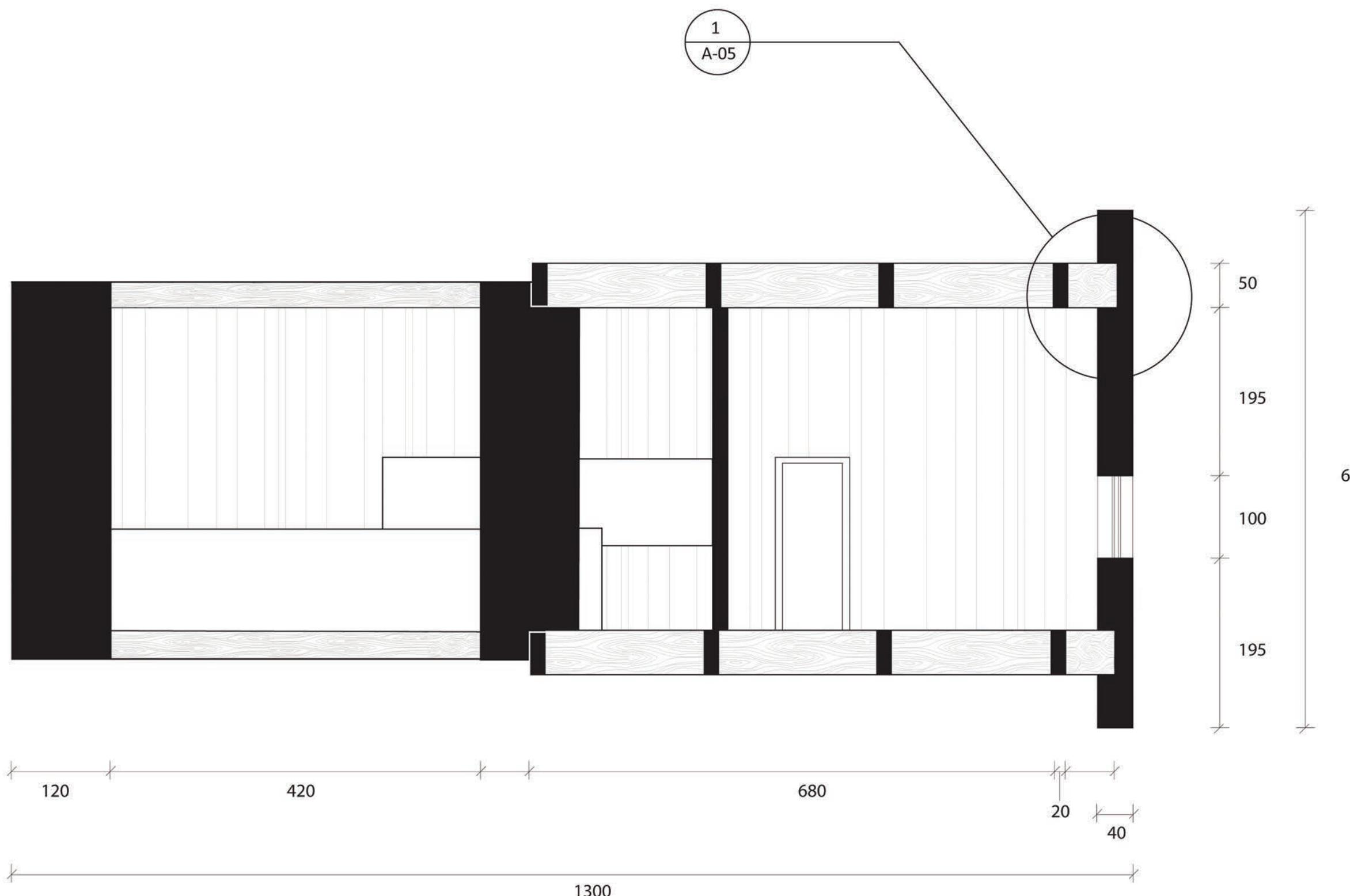
Scale - 1 : 500
at A3

All measurements in mm

Building Plan (Lv 2 of
Architecture school and the Library)



Sheet 02 A-02



Not to scale



School of Architecture
(Architecture school + Library)

Site - The Arts Centre of christchurch

Client - Craig Moller

Name - Hong Hyun Chul

Due date - 07/11/14

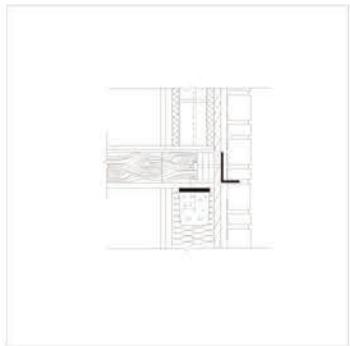
Scale - 1 : 50
at A3

All measurements in mm

*Building Section of Lv2
Studio space of Architecture School*



Sheet 03 A-03



Not to scale



School of Architecture
(Architecture school + Library)

Site - The Arts Centre of christchurch

Client - Craig Moller

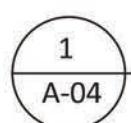
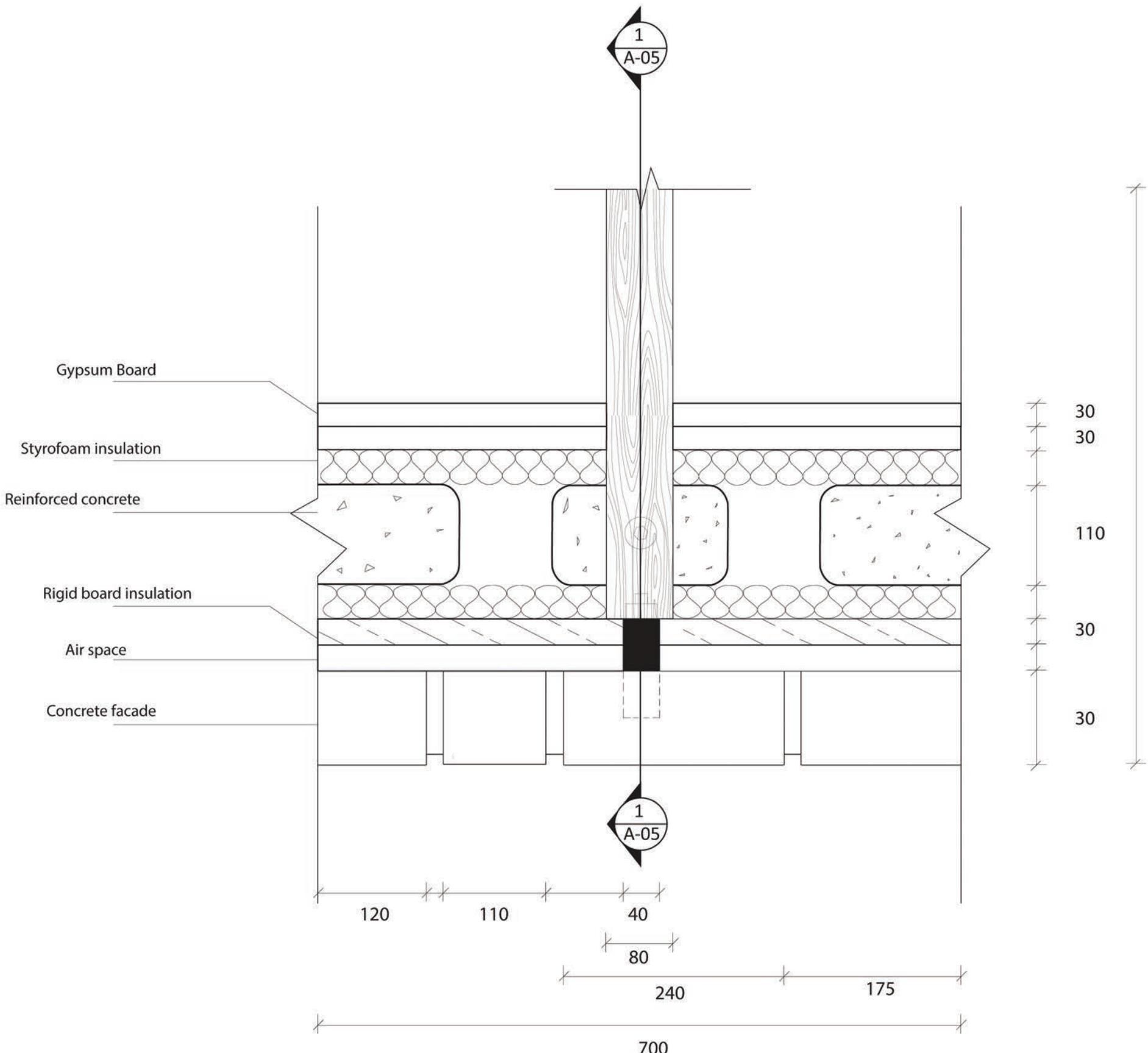
Name - Hong Hyun Chul

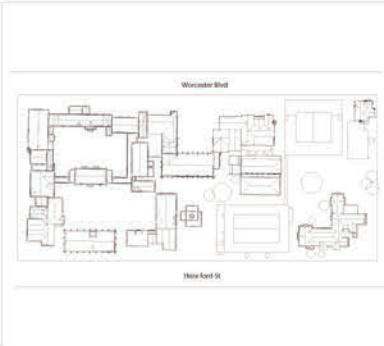
Due date - 07/11/14

Scale - 1 : 5
at A3

All measurements in mm

Detail Plan





Not to scale



ARCHITECTS

School of Architecture
(Architecture school + Library)

Site - The Arts Centre of christchurch

Client - Craig Moller

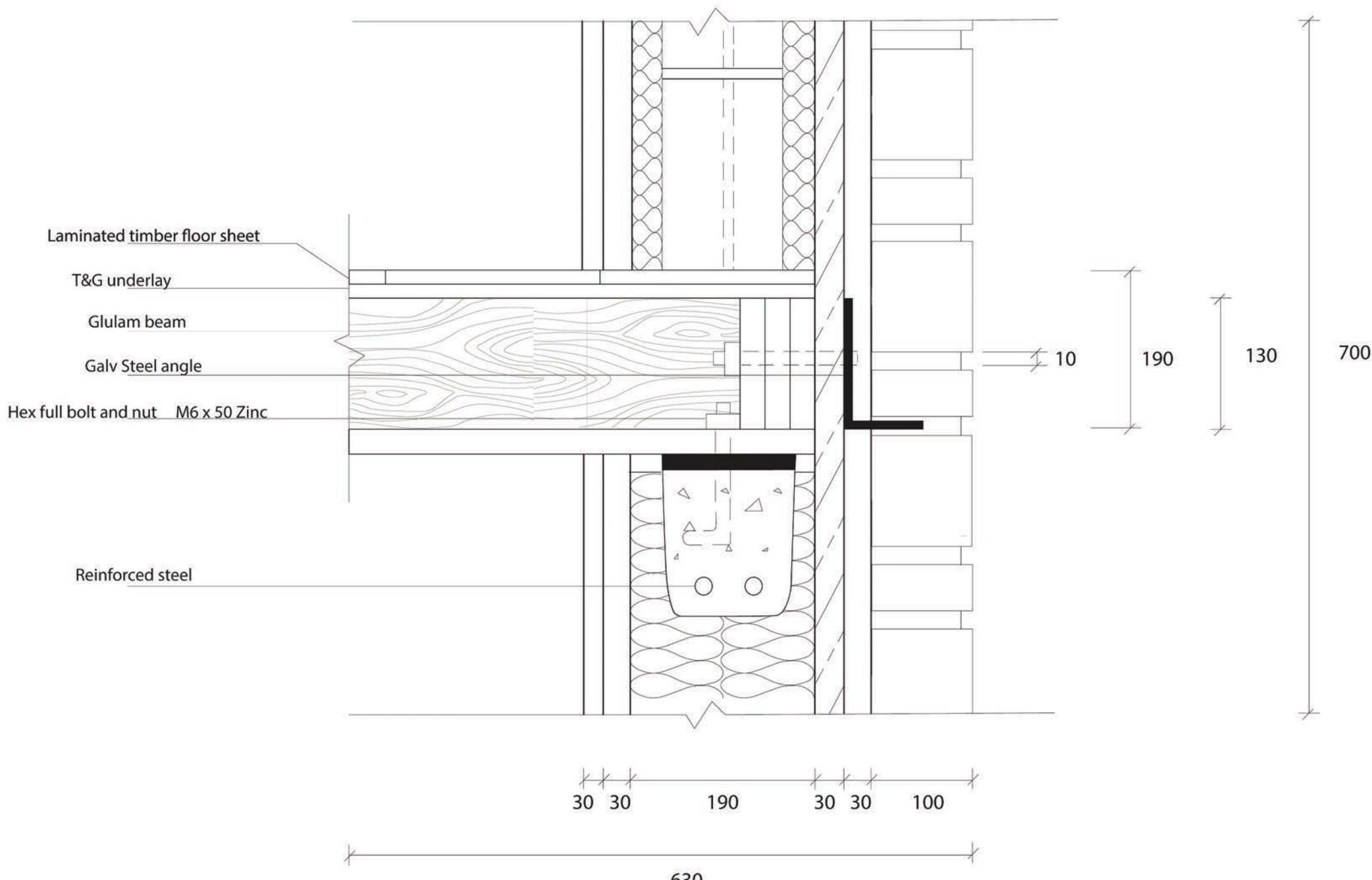
Name - Hong Hyun Chul

Due date - 07/11/14

Scale - 1 : 5
at A3

All measurements in mm

Detail Section

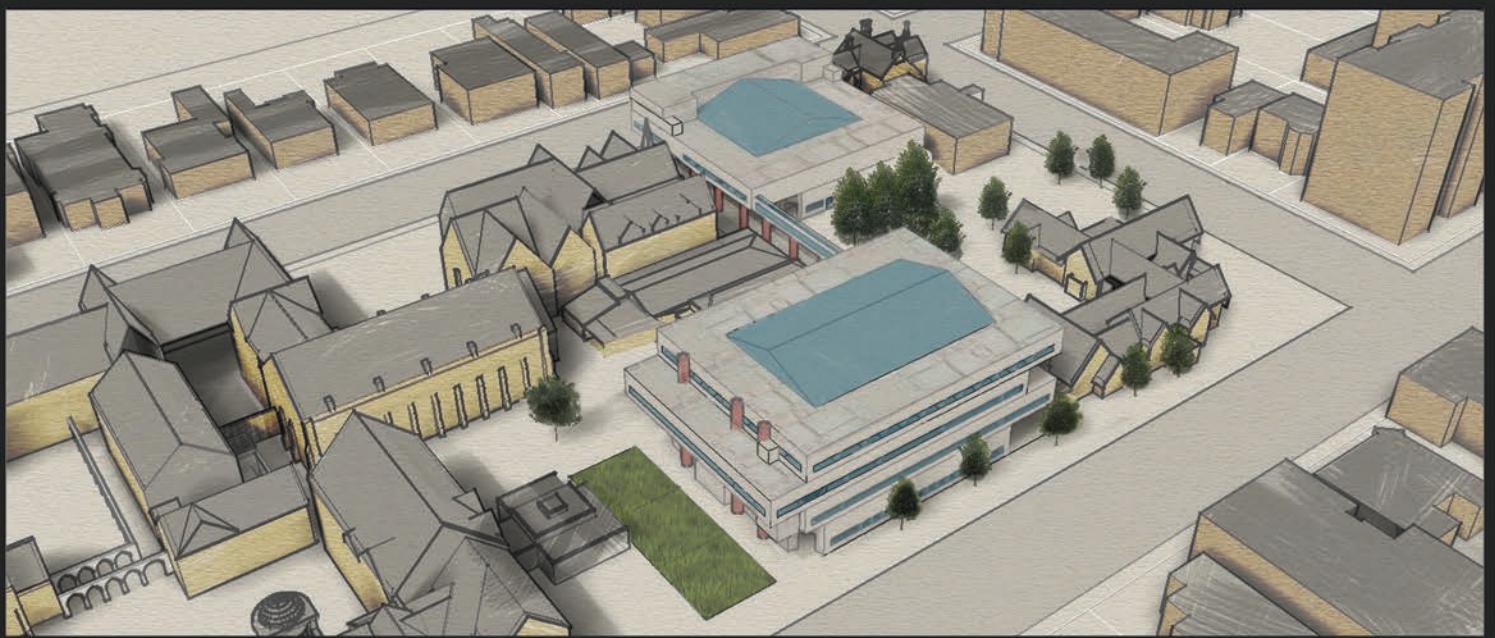


Detail Section

1
A-05



Birds eye view of the school of architecture



Street side of the main school building



Street side of the library



Outdoor social space



A view of the atrium space from level 4



Interior view of the library from the entrance

