

PORTFOLIO

ILDEA VAN DEN BERG

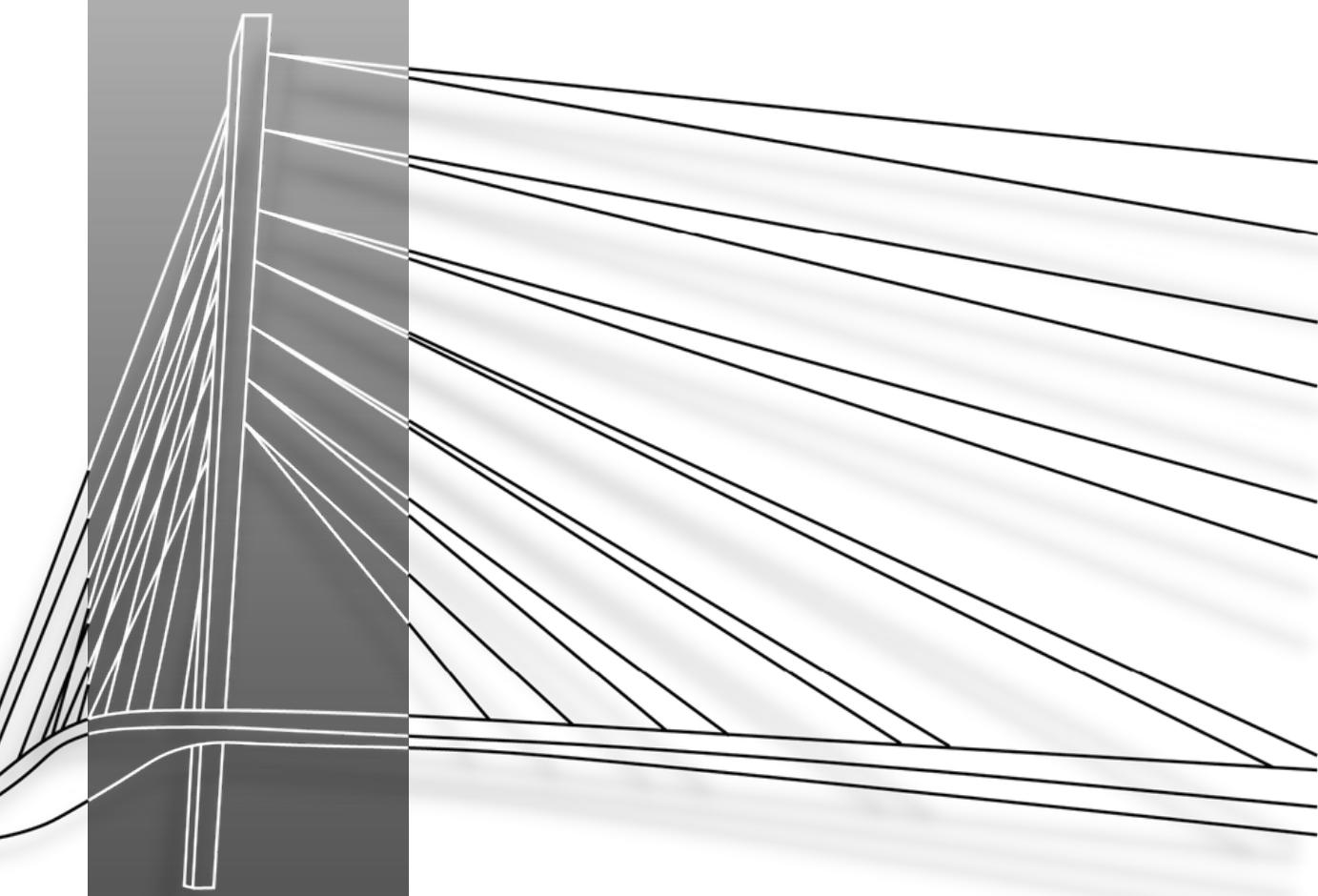
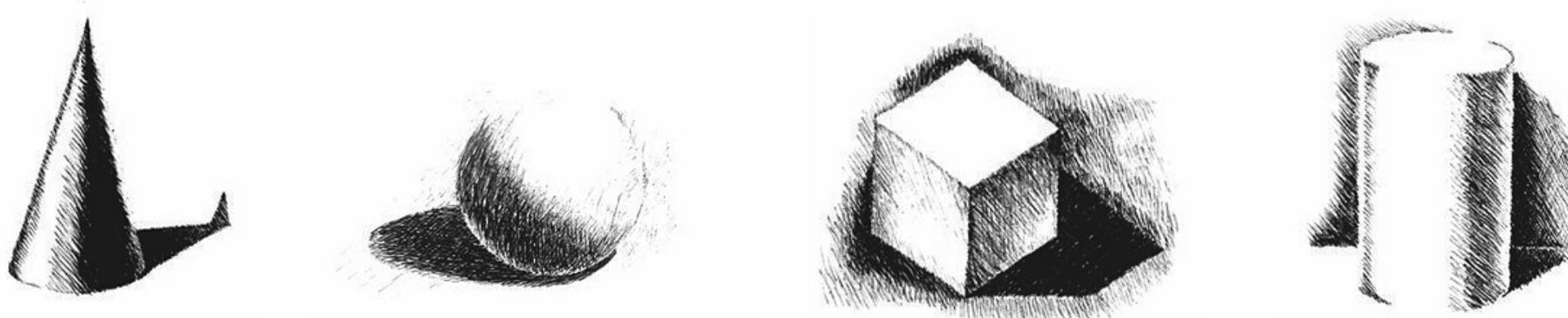
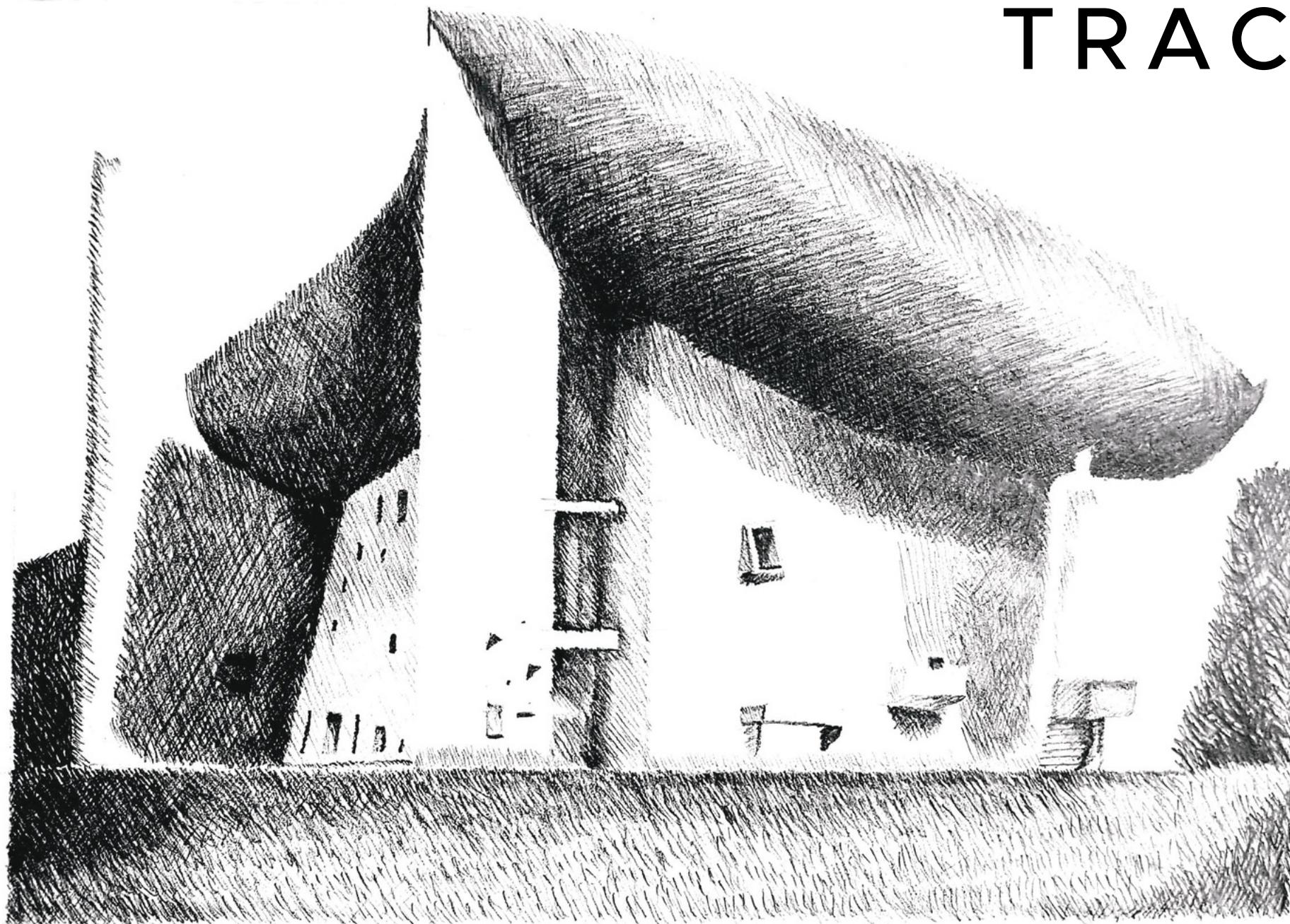


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TRACING TECHNIQUES



PROJECT BRIEF

By using a tracing technique, draw the images to the best of our ability by applying different tones, textures, and shadows to create depth.

CONCEPT OF ASSIGNMENT

The concept of this assignment was to apply different tones and shadows to create depth. By applying this technique, the value of texture and contrast brings the drawing to life through the use of lines to create depth and dimension.

OUTCOME

This assignment assisted me a great deal with how each element is perceived by the untrained eye. By sketching and using this technique you see so much more by studying where the light falls exactly in the right place to highlight key elements of a design, sometimes better than a photograph.

PRESENTATION TECHNIQUES

PROJECT BRIEF

Images of previous sketches were given to all the students with the instruction to trace, with proper line work and incorporate the following:

- Construction lines as a drawing element
- General sheet and drawing layout
- Tracing techniques

- Paraphernalia – trees and people
- Typography, spelling, vocabulary
- 3D sketching



CONCEPT OF ASSIGNMENT

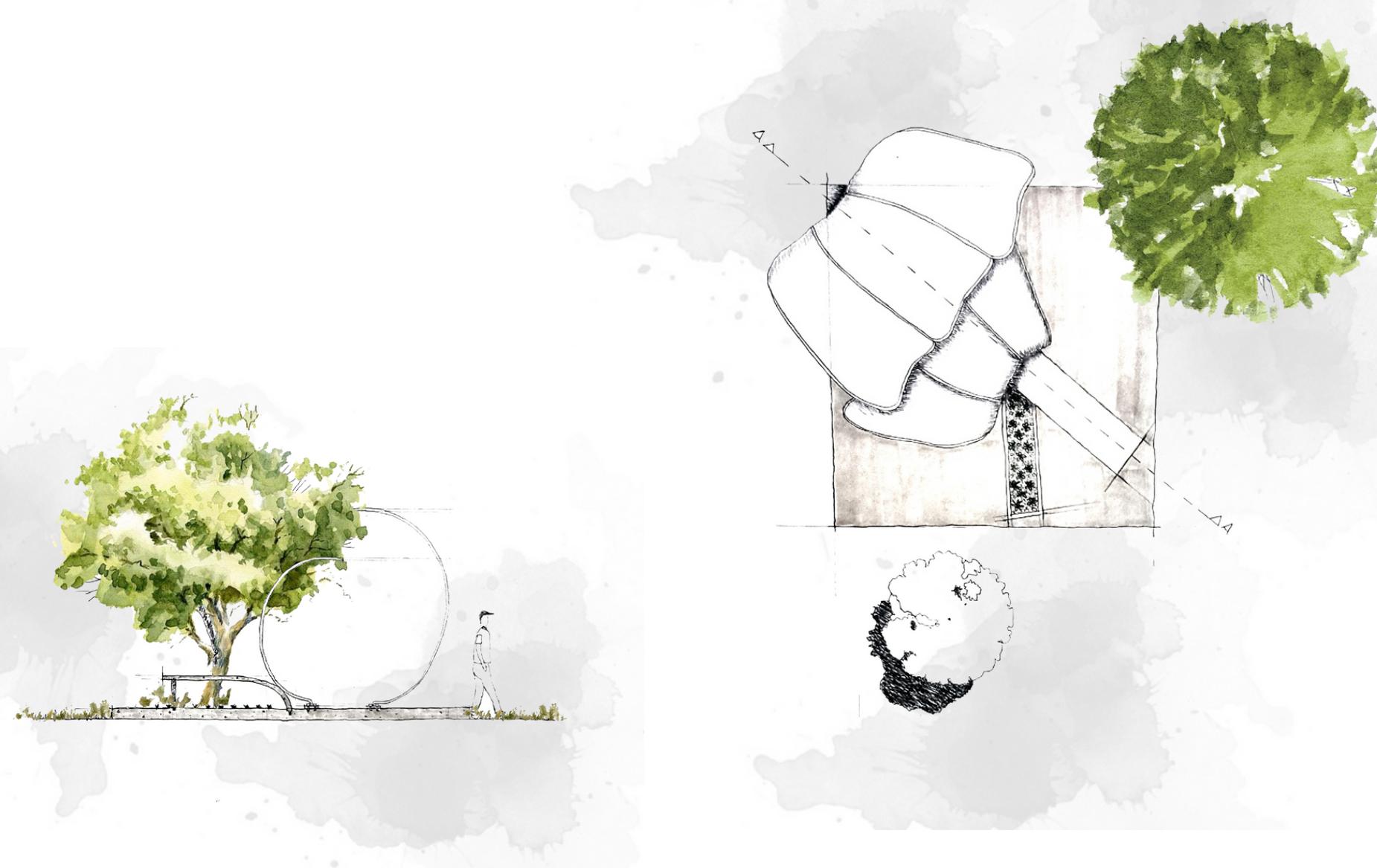
The concept of this assignment was to study the use of presentation techniques to set a precedent for future presentation drawings completed with a design.

Presentation in architecture is a fundamental skill to master. By combining all the techniques a presentation drawing requires, a presentation is brought to life.

OUTCOME

This assignment showed me how only a few elements are required to take a presentation drawing to a whole new level when each element is incorporated correctly.

KIOSK DESIGN



PROJECT BRIEF

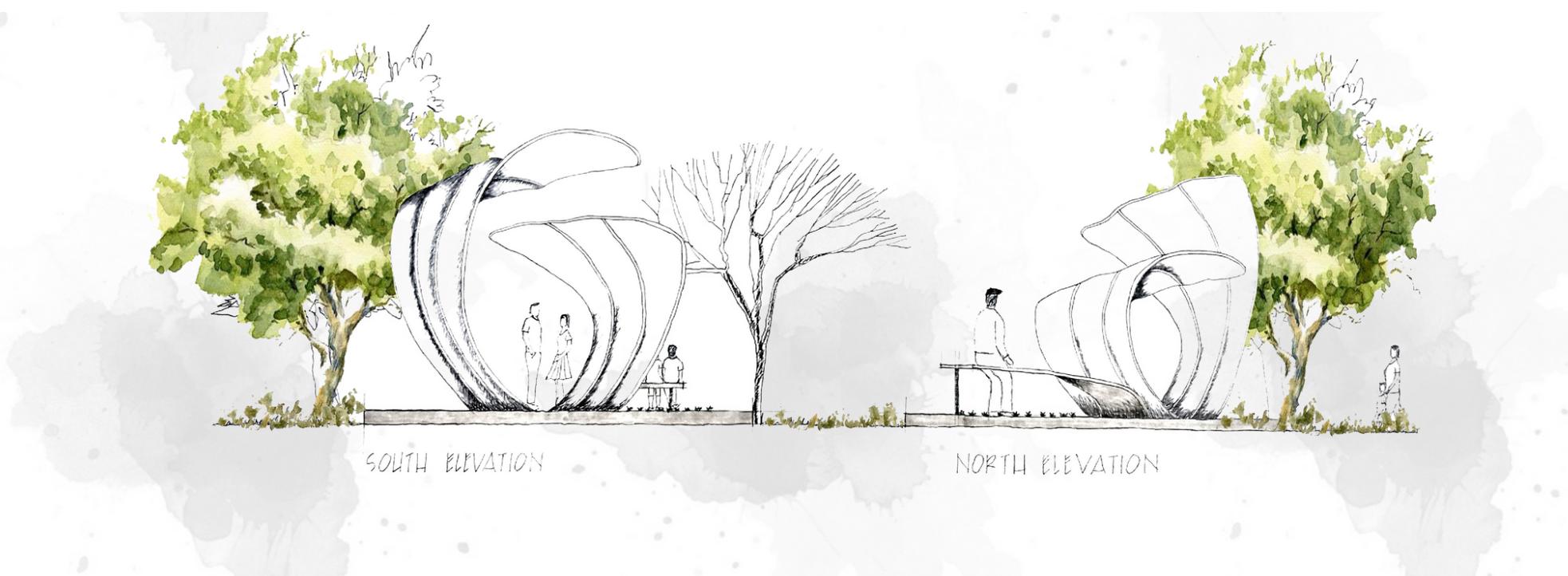
This project was to design a sculpture-like kiosk to be erected at a park where sports events would be held. Your structure should be non-invasive and enjoyable for people to enjoy.

CONCEPT OF ASSIGNMENT

My design inspiration came from a white seashell. From a distance, it blends in with the environment, but the more you look at it, the more you see how unique it is in its own merit. Aesthetically pleasing but not intrusive to the environment.

OUTCOME

This assignment encouraged me to think about where people would like to sit and enjoy a sports event or the park on a sunny summer's day while creating an interesting sculpture-like space to catch the interest of the spectators.



AUSTIN ROBERTS BIRD SANCTUARY

PROJECT BRIEF

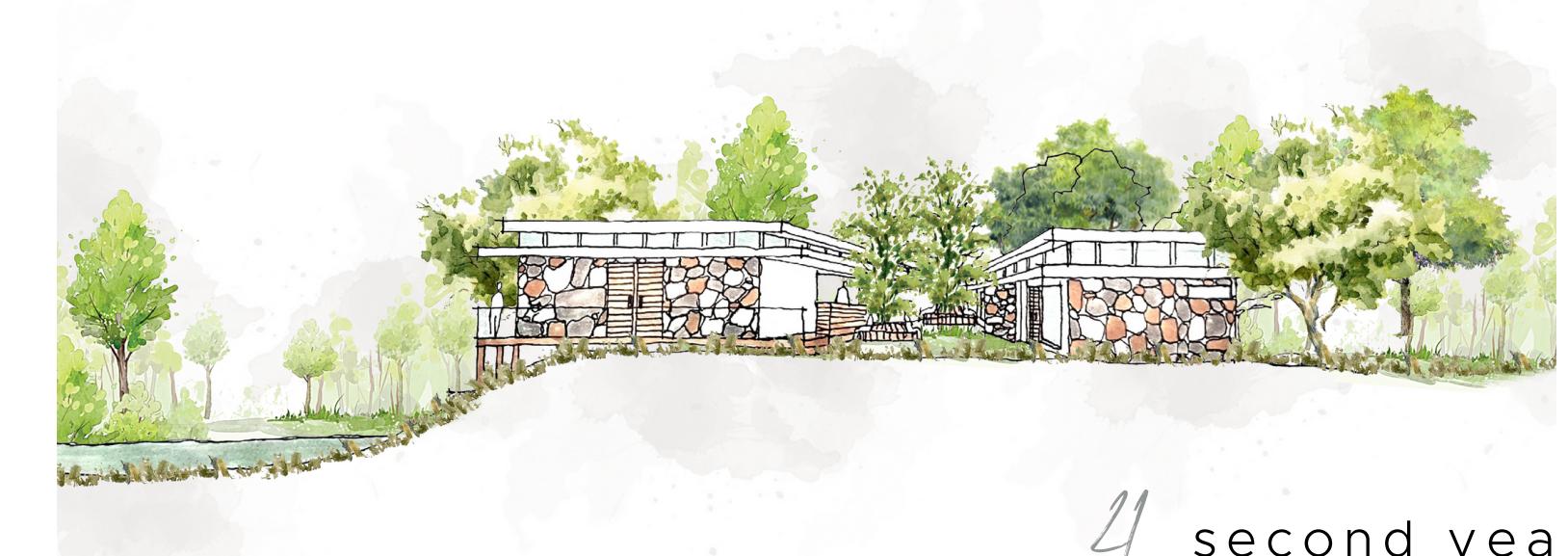
The current building in the Austin Roberts bird sanctuary is to be demolished or renovated. The new proposed spaces need to include a restaurant, coffee shop and a library for Ornithology that includes a bookshop. The purpose of the building upgrades is to enhance the spirit of the place and to receive more visitors.

CONCEPT OF ASSIGNMENT

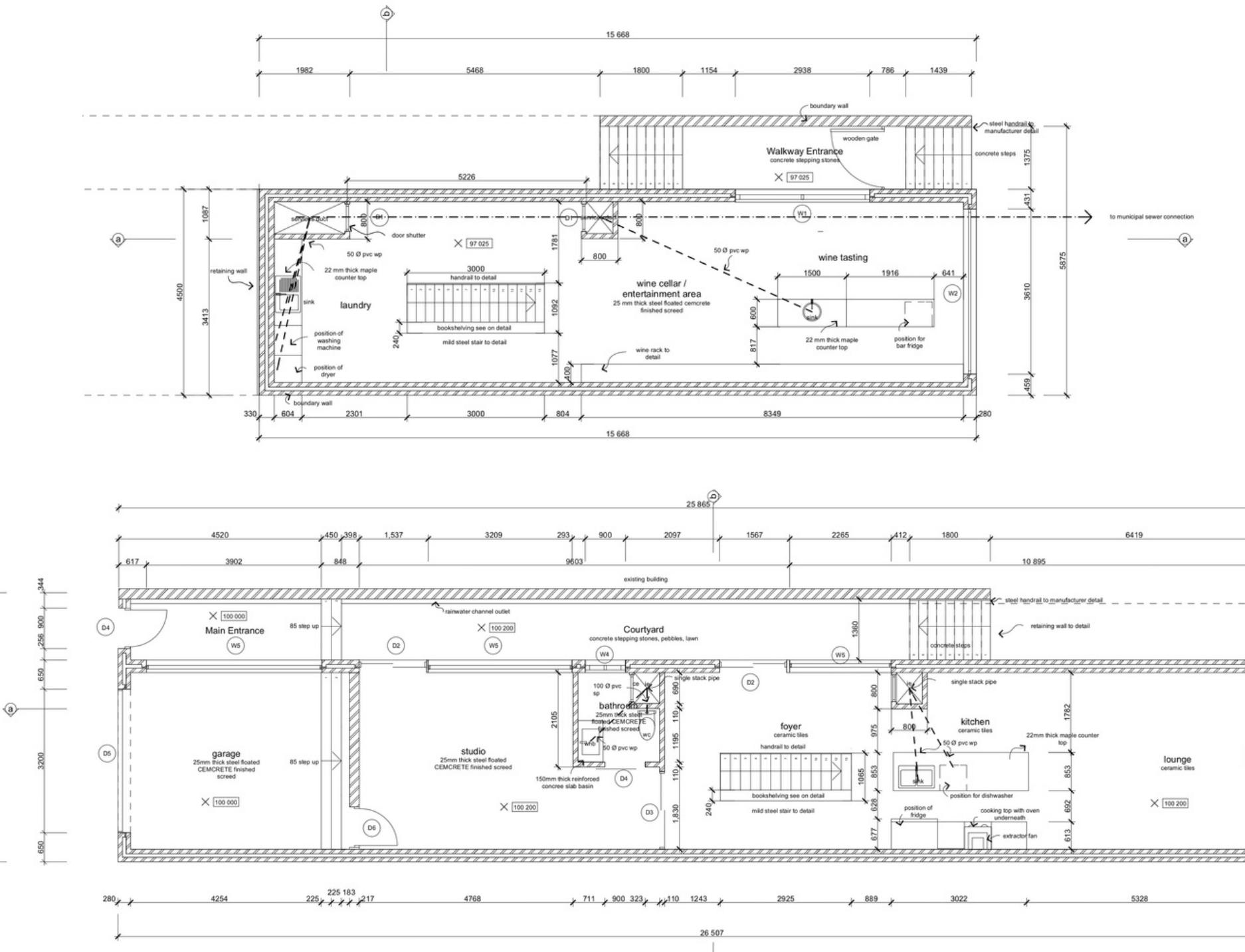
The concept for this design was to include the natural colours of the environment to maintain a balance and natural look and feel of the area.

OUTCOME

This assignment for me was to create an inviting space by connecting the water with the building, by wrapping an accessibility deck around the building and using materials that fit into the environment.



DE WATERKANT

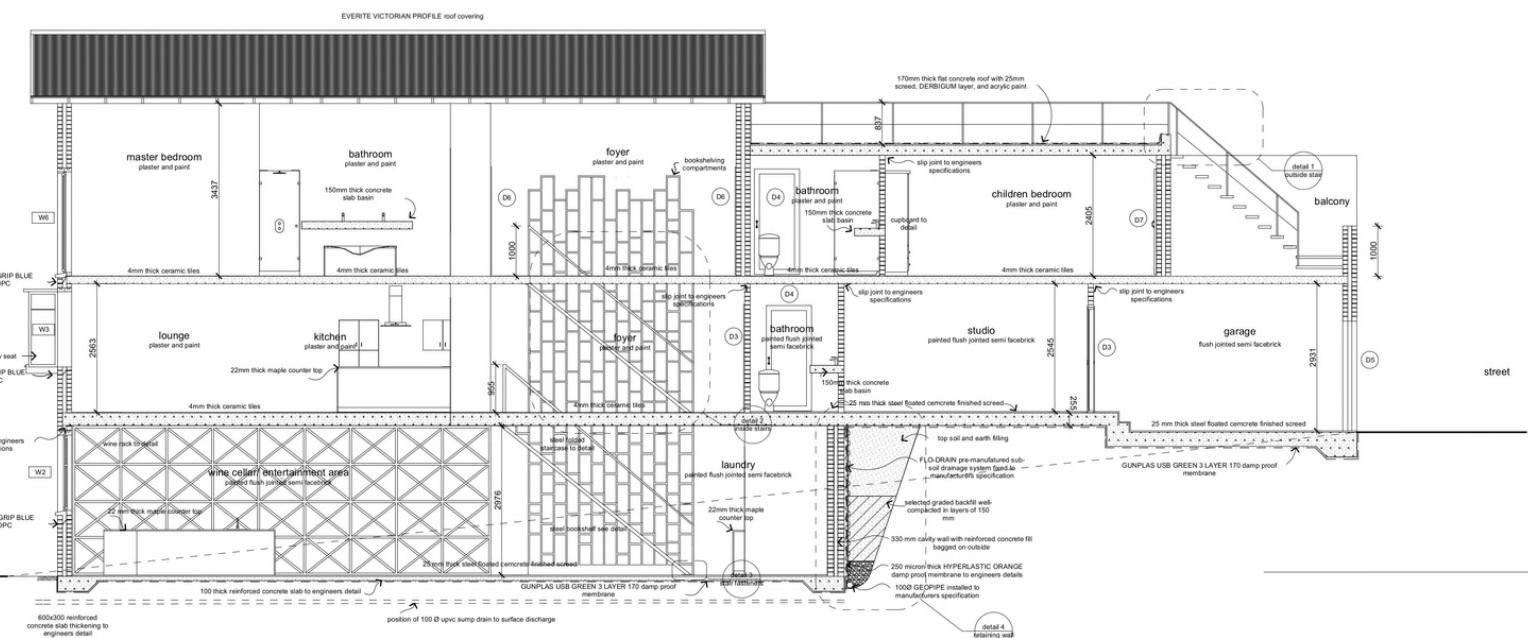
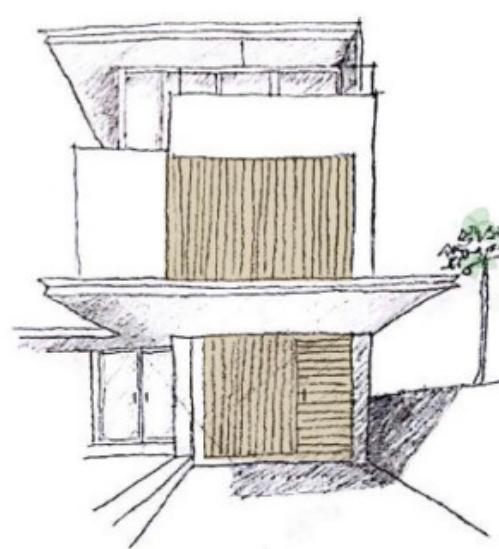


PROJECT BRIEF

In the De Waterkant area, a house is to be designed by an architect. At the request of the client, the house should function as a living space for him and his family, and a frequent workspace.

CONCEPT OF ASSIGNMENT

My concept for this design was to find a balance between where modern living meets confined spaces.



OUTCOME

This assignment encouraged me to think outside the box, as this was a small site to accommodate the client and his family with all the requirements to be met without the space feeling cramped.

MULTI-PURPOSE SPORTS HALL

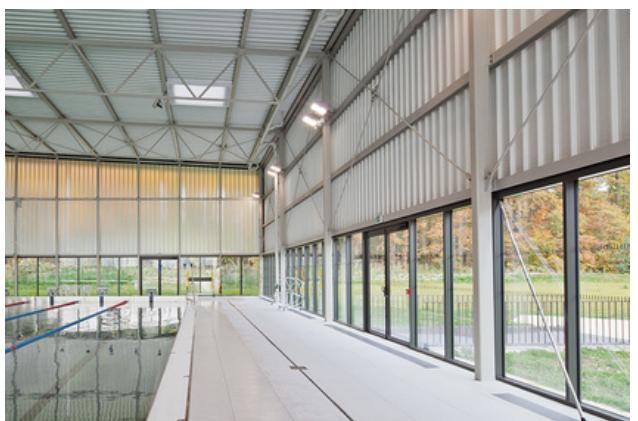
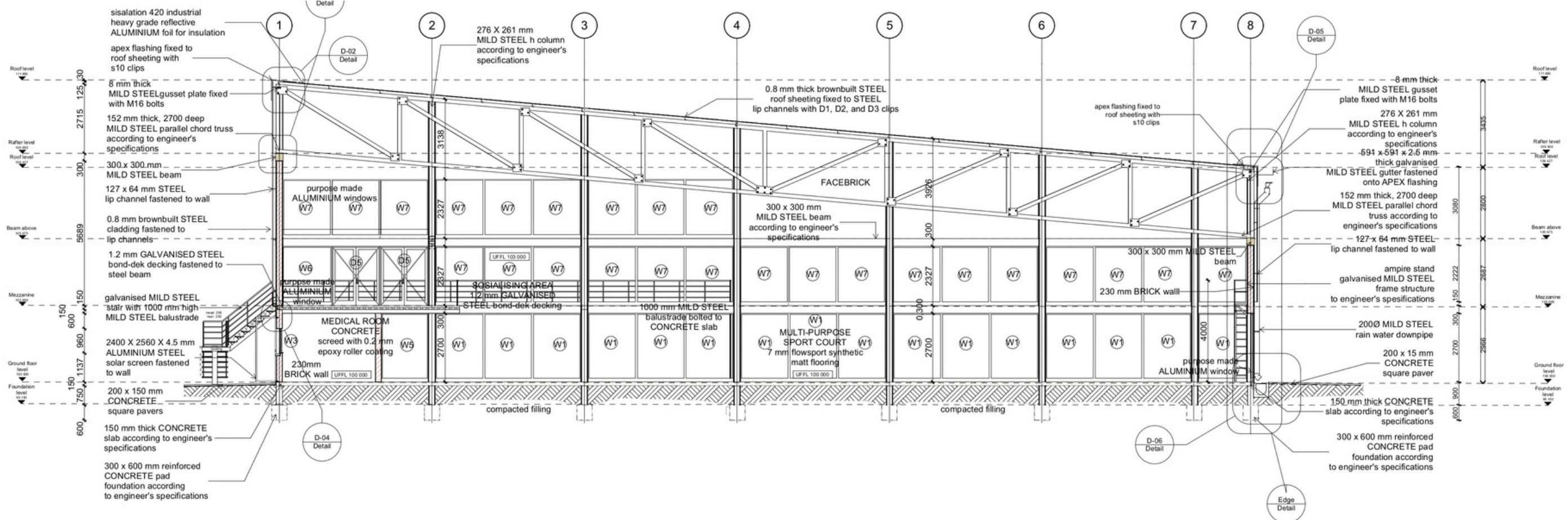


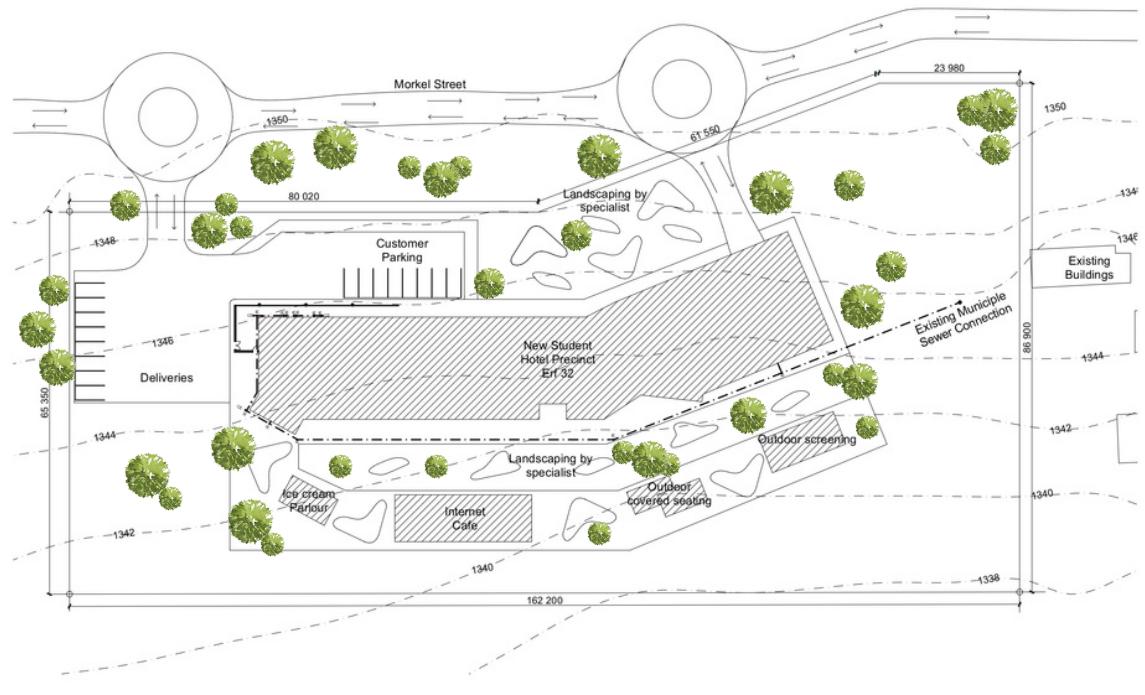
PROJECT BRIEF

A new indoor sports hall is to be designed at the Tshwane University of Technology for student use. The concept for this design was to incorporate the functionality and use of the space with the social element of gatherings without disturbing an event that might be taking place.

OUTCOME

This assignment challenged me to think about the use of a huge space without making it feel like a waste. The use of a long-span steel structure, bricks and concrete showed me what is possible in minimalist design.





THE STUDENT HOTEL

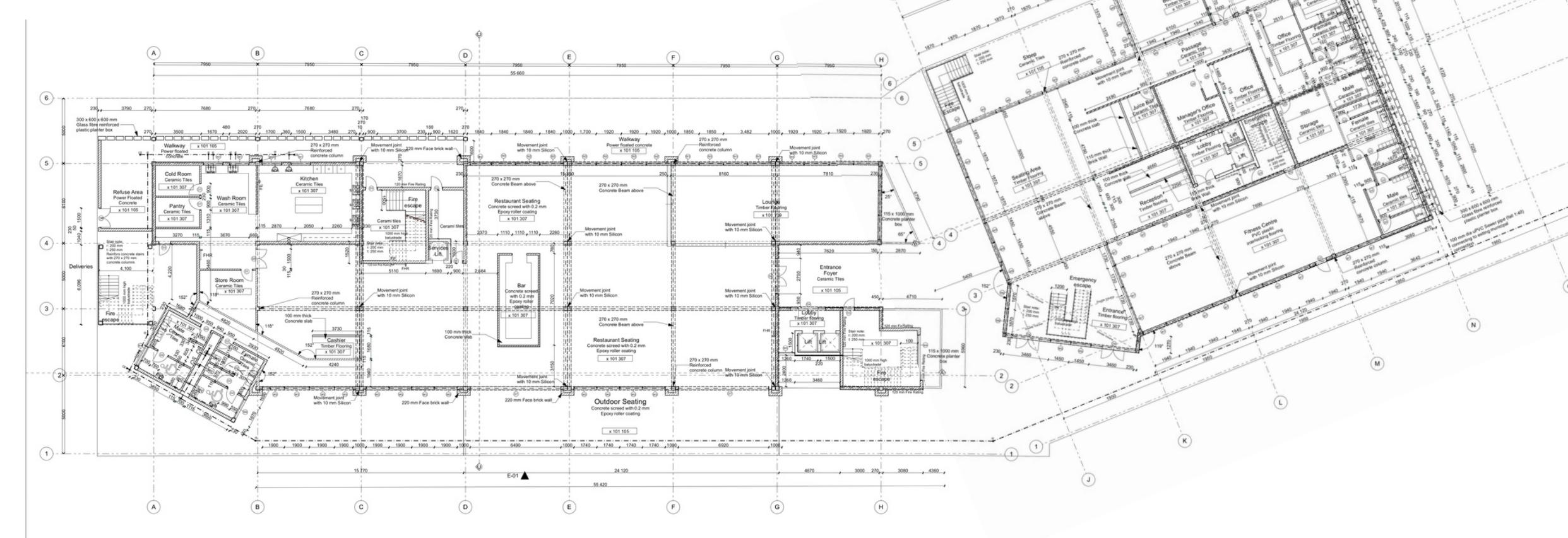
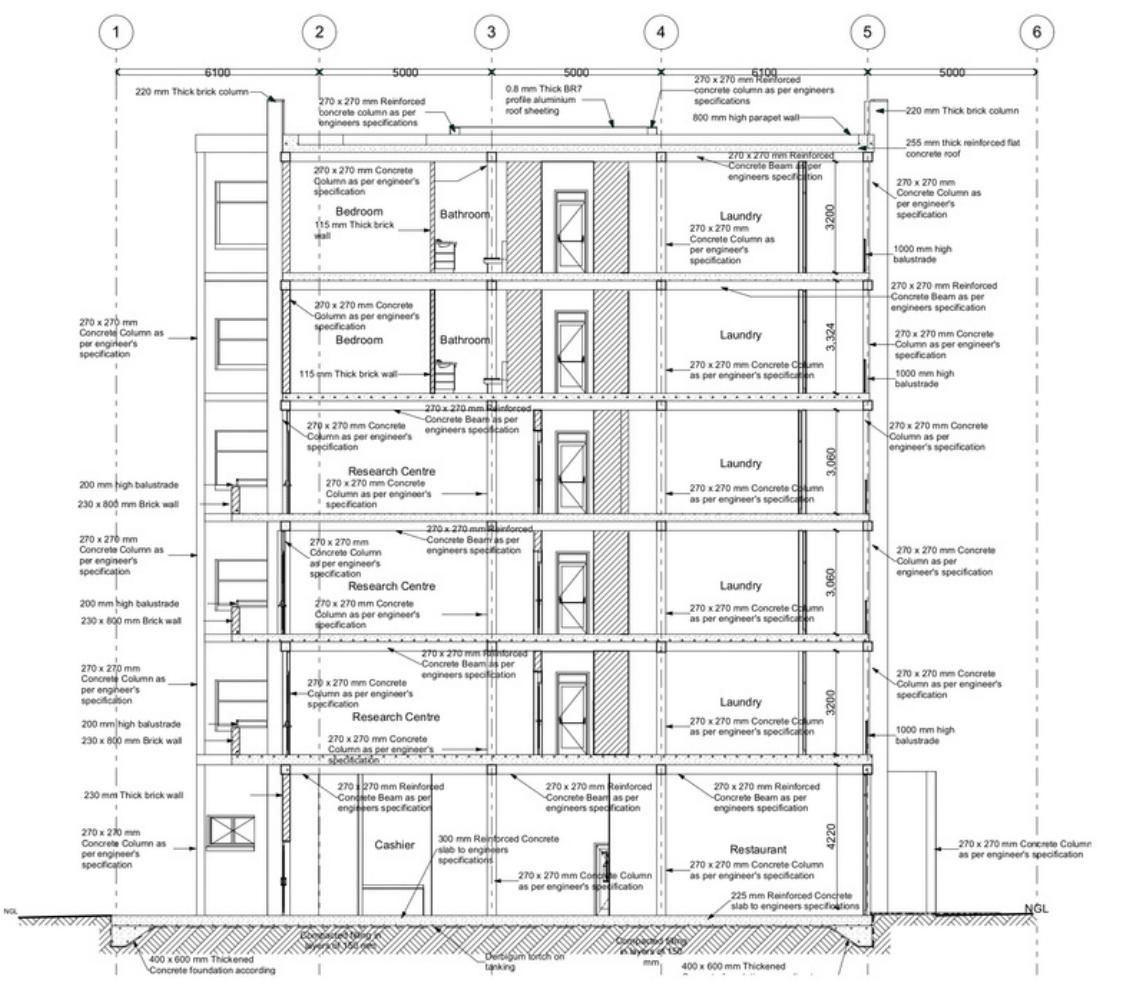
PROJECT BRIEF

A student hotel is to be designed for the students at the Tshwane University of Technology and their guests. All facilities students might need for day-to-day use need to be included.

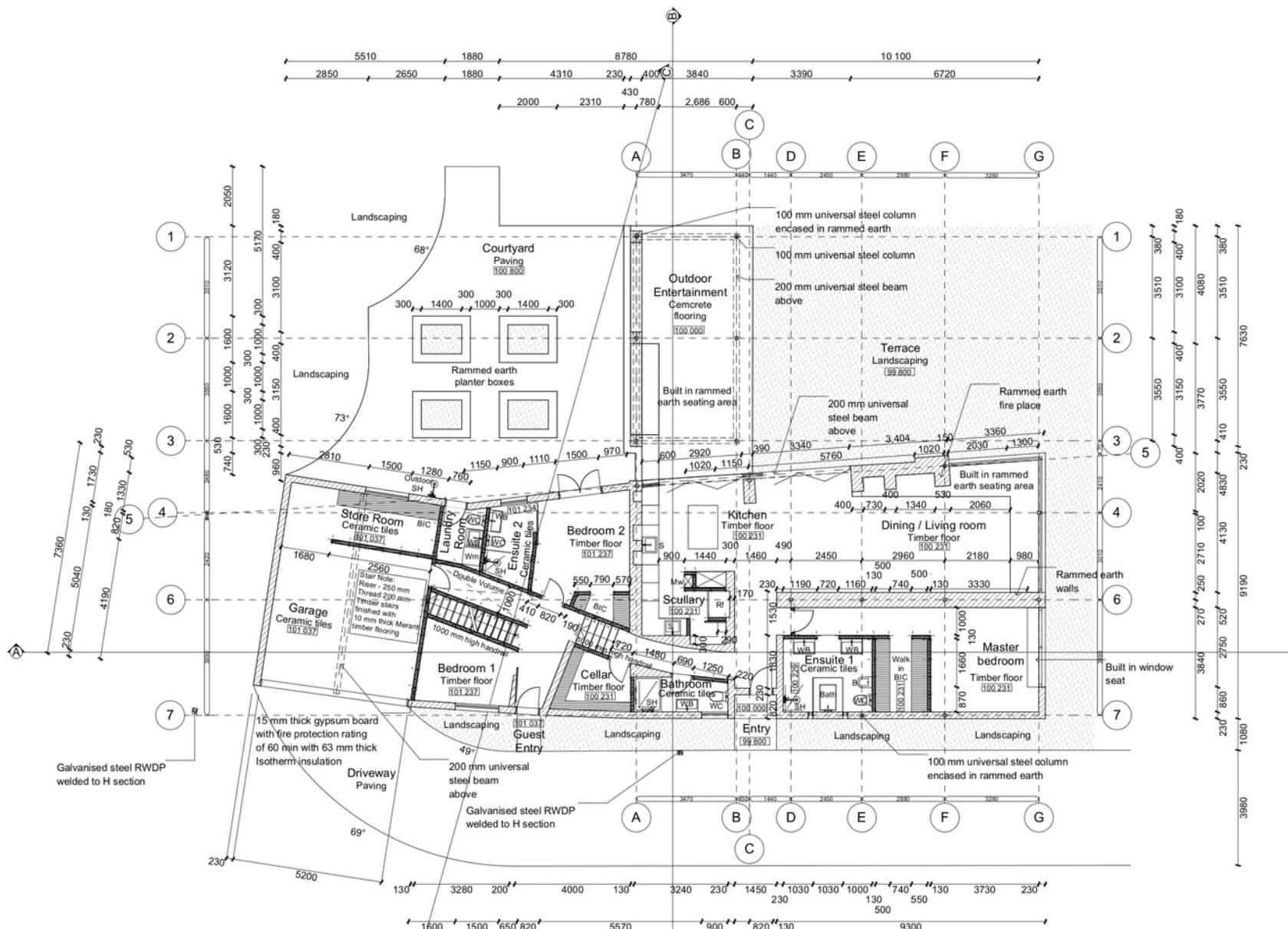
The concept for this design was to design a home away from home, taking into consideration, all the needs a student would have for a functional living while maintaining focus on studies while aspiring to a future of greatness.

OUTCOME

This assignment challenged me to think about what a student requires every day to live a healthy balanced life by incorporating easy access to all facilities, security, and minimalist modern design.



HUNTER VALLEY

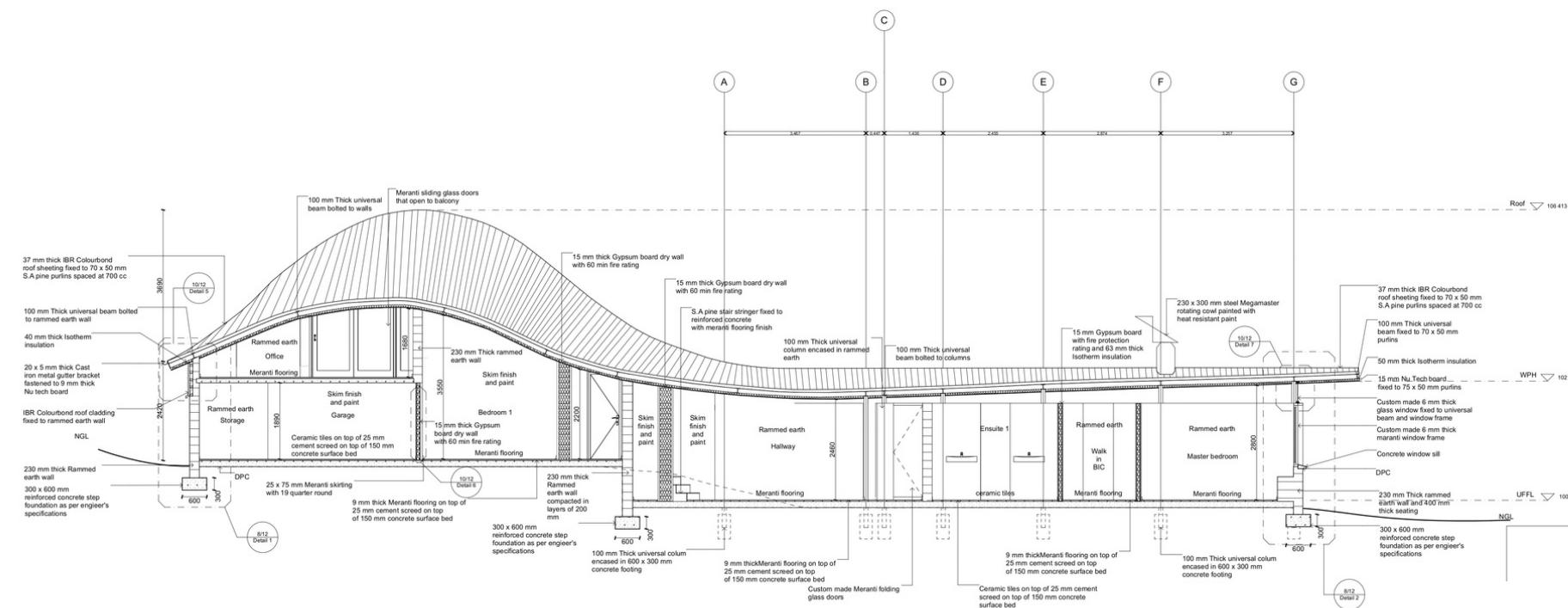


PROJECT BRIEF

This project was a bit different from the norm. A set of presentation drawings of a published building in a popular magazine was issued to me, to produce a set of drawings to solve the construction behind the design.

OUTCOME

This project helped me not only look at the beauty of the design, but to understand the method of construction, and how problems were overcome by innovative design solutions.



KISUMU JUBILEE BRIDGE

PROJECT BRIEF

The Kisumu market regeneration project is the upgrading of the existing informal traders' market in Kisumu, Kenya. The initial scope of work was to only provide a new trading platform for local traders but the project developed into a more complex entity that includes formal retail, the relocation of the existing Kisumu hospital, a new transport hub and low to medium-income residential opportunities.

Local operators would also have the opportunity to run and self-manage restaurants and shops while living on the premises.

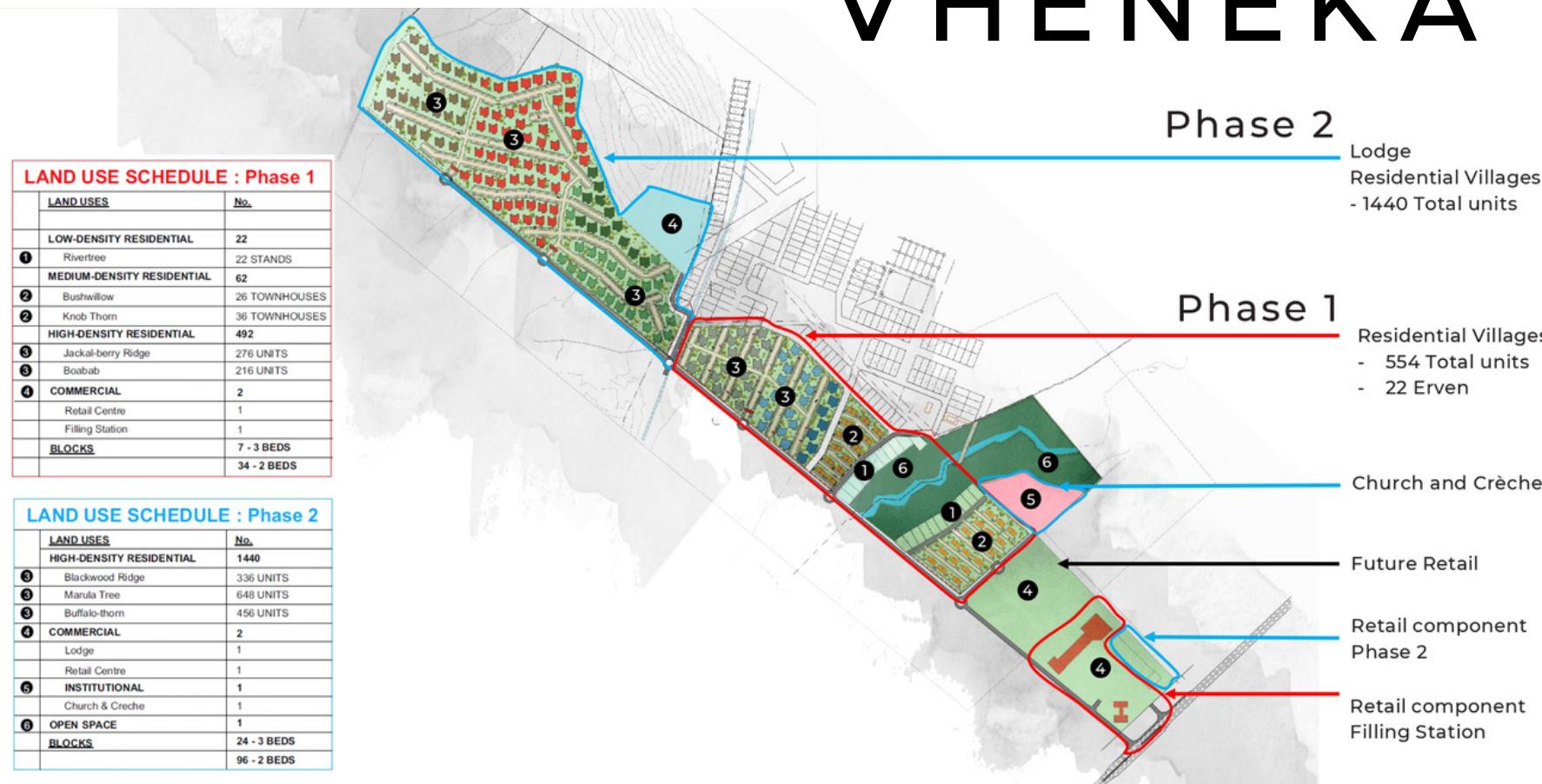


OUTCOME

We eventually proposed a pedestrian link between the different typologies that resulted in the current status referred to as the Kisumu "Jubilee Bridge" development.



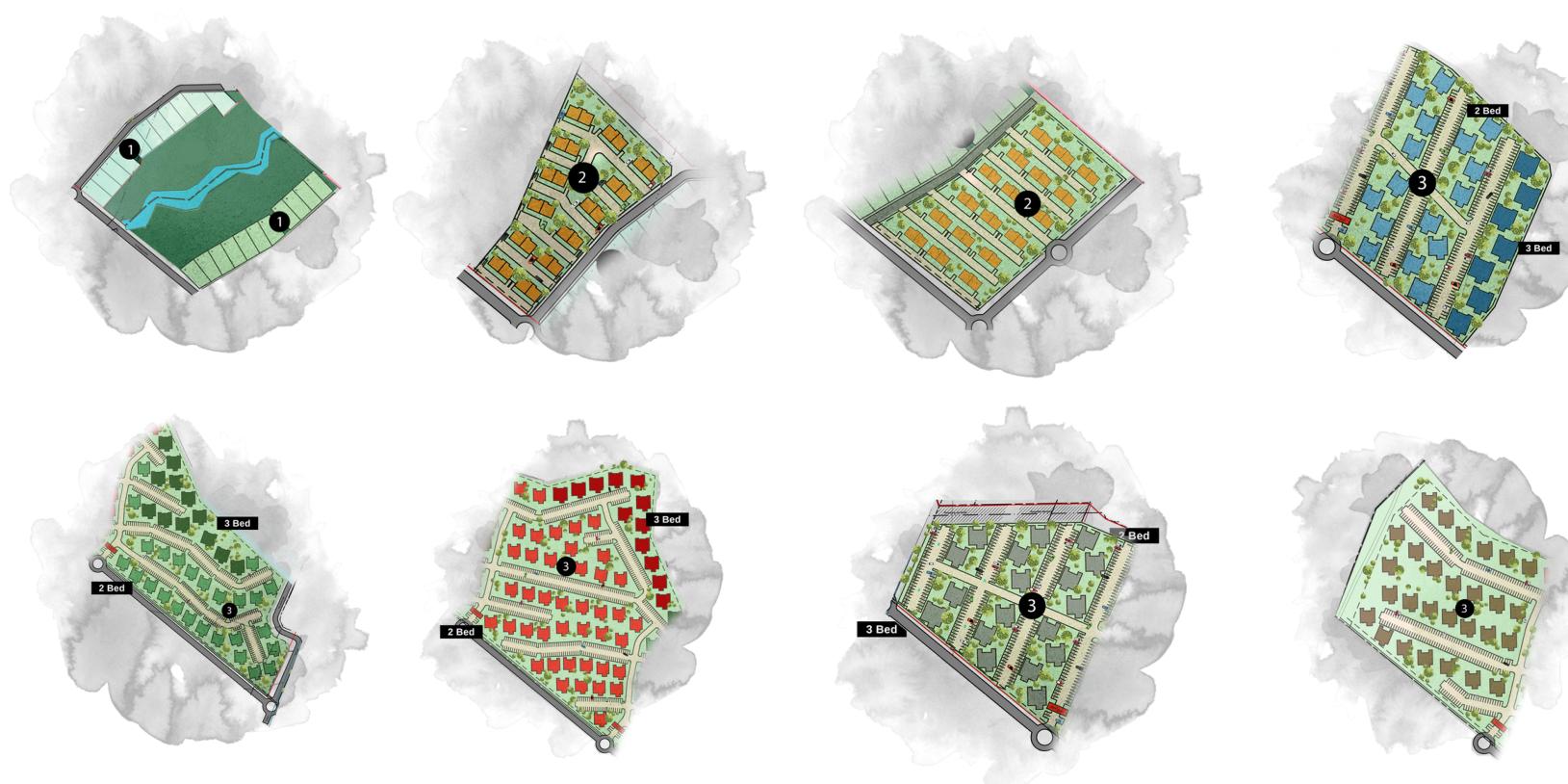
VHENNEKA RESIDENTIAL ESTATE



PROJECT BRIEF

Vheneka Estate is a new residential estate in Glendale, Zimbabwe. Due to the shortfall of good-quality homes in Zimbabwe, and the return of ex-pats to the country after the demise of Robert Mugabe, there is a massive demand for housing. The first phase of this development consists of a large residential component of low and high-density units as well as the first phase of a commercial centre that includes retail, a filling station, drive-through restaurants and a truck stop.

Additional uses such as a church, primary and secondary schools, a creche and sports facilities are also included.



RESIDENTIAL: HIGH-DENSITY STANDS



RESIDENTIAL: MEDIUM-DENSITY TOWNHOUSES



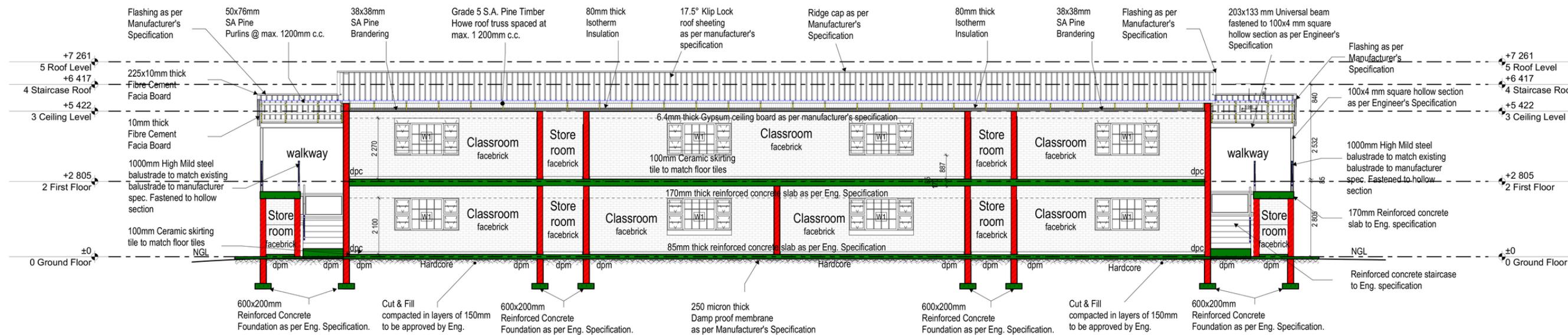
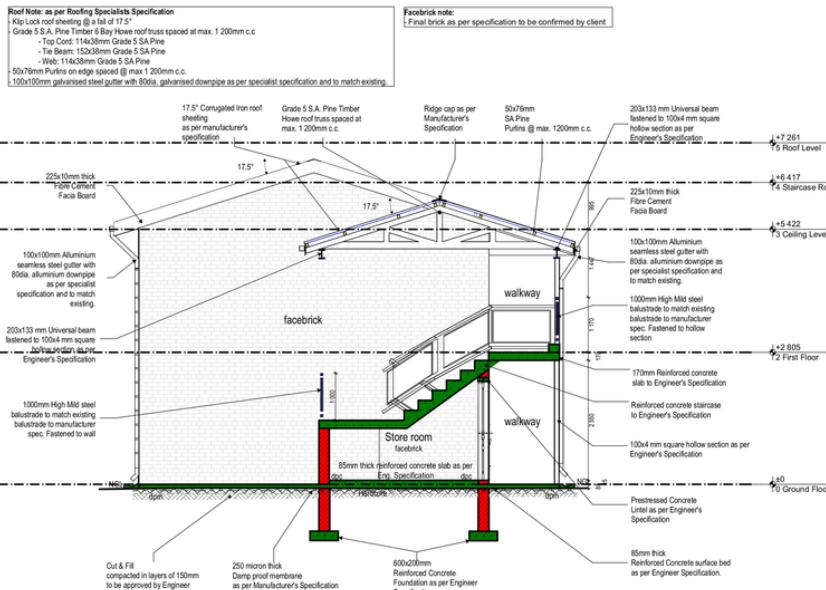
SPRINGVALE PRIMARY SCHOOL

PROJECT BRIEF

The Springvale Primary School required additional classrooms to be designed and constructed. I gained extensive knowledge of the requirements for buildings that occupy children.

Various safety issues needed to be considered in the design such as:

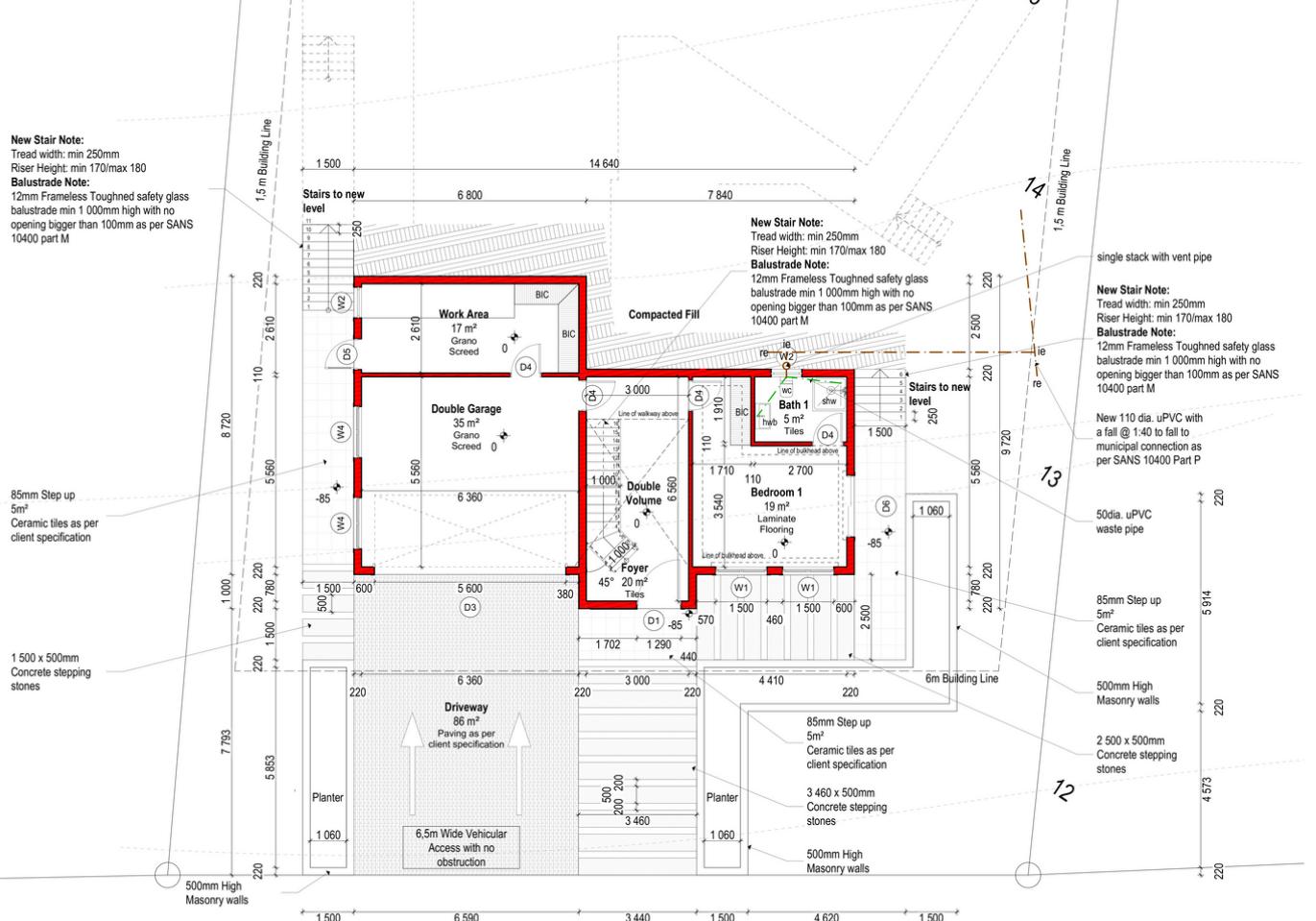
- fire requirements such as firewalls between classrooms and fire extinguishers in every classroom.
- bottom hung windows are required for the safety of students walking past open windows.
- the durability of finishes specified such as heavy-duty tiles



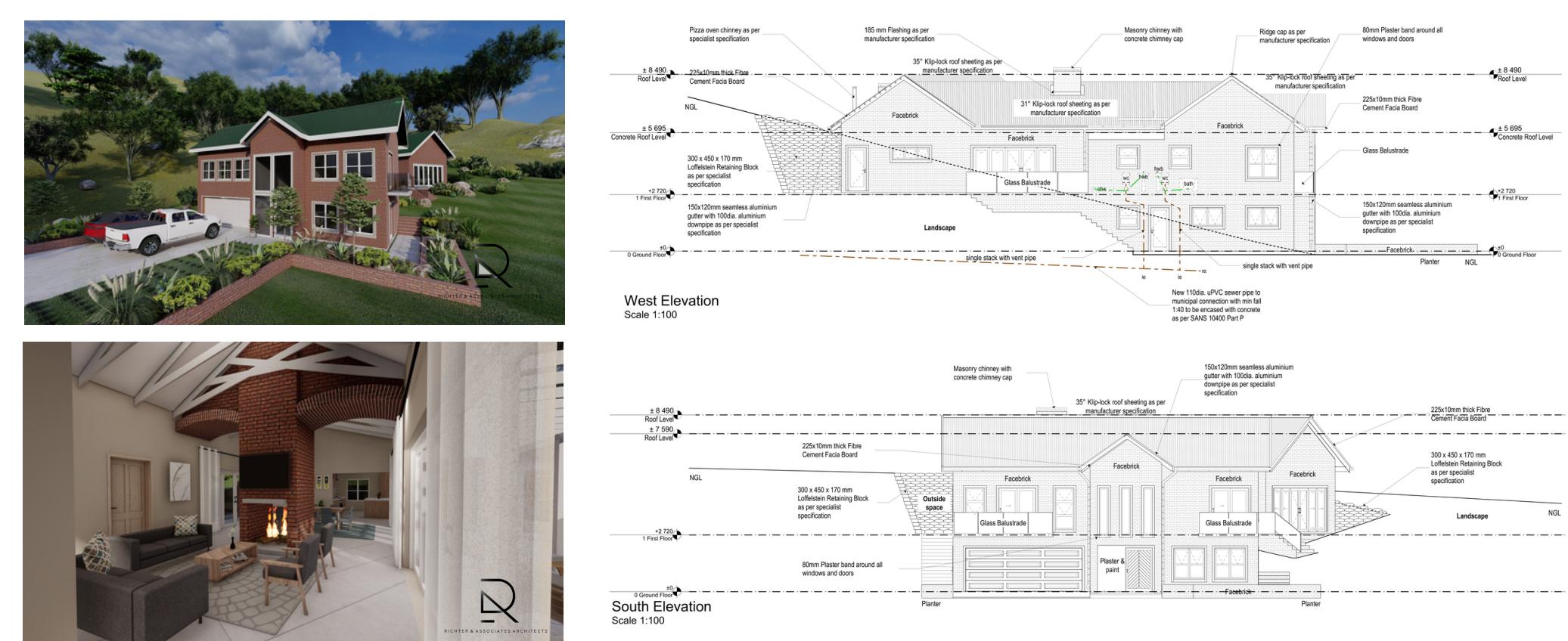
FISHBAY RESIDENCE

PROJECT BRIEF

The clients required a house for their retirement that has enough space for their family to come visit during holidays. They required the house to have a view of the ocean from as many points in the house as possible. The design was an exciting challenge as the HOA only allows for one floor. But because of the site's steep slope we were able to add extra sqm in the form of a lower ground floor on the lowest point of the site.



West Elevation
Scale 1:100



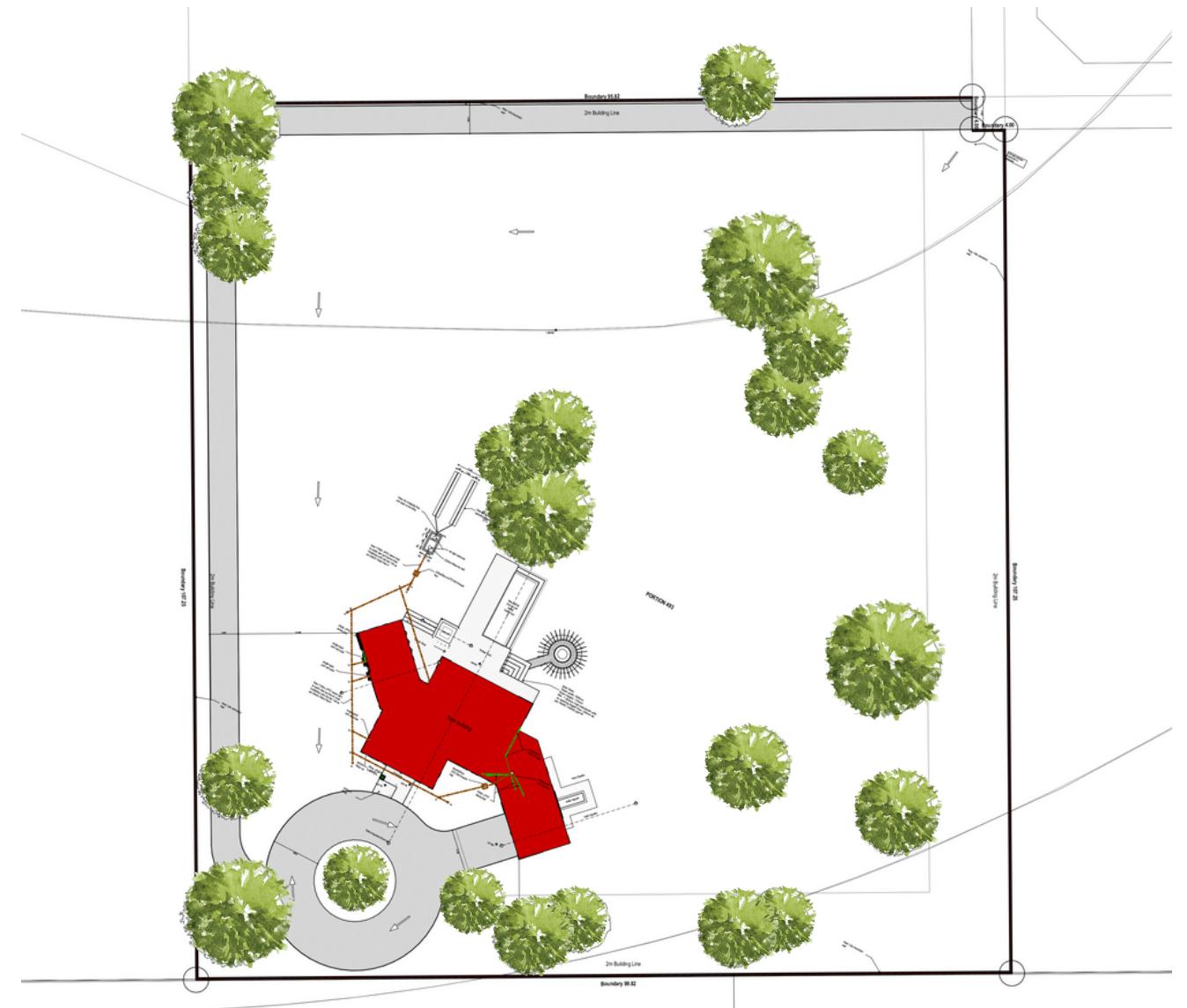
South Elevation
Scale 1:100

RIETFONTEIN RESIDENCE

PROJECT BRIEF

The clients consist of a family of four who are looking to build their future home. It was a challenge to work with these clients because they had a very specific idea for their dream home that escalated as we developed the design, however their budget remained the same.

Under these circumstances I had to learn quickly how to design in a cost effective way, while still delivering a well designed, functional, aesthetically pleasing end product.



Roof Note: as per Design & Supply of Roof Manufacturer

- 15° Klip Lok sheeting as per manufacturer's specification.
- Rafter Beam: 38x225 SA Pine timber @ 1200m c.c spacing.
- 50x76mm SA Pine Purlins spaced and max 1200mm c.c. or as per Klip-Lok 700 Manufacturer's Specification.
- 38x38 SA Pine Timber Bracing spaced @ max 400 c.c. Screw fixed to Trusses 40mm thick Isover as per Manufacturer's Specification.
- Gypsof Ceiling board fixed to bracing.
- Roof Structure as per SANS 10400 - Part L

