

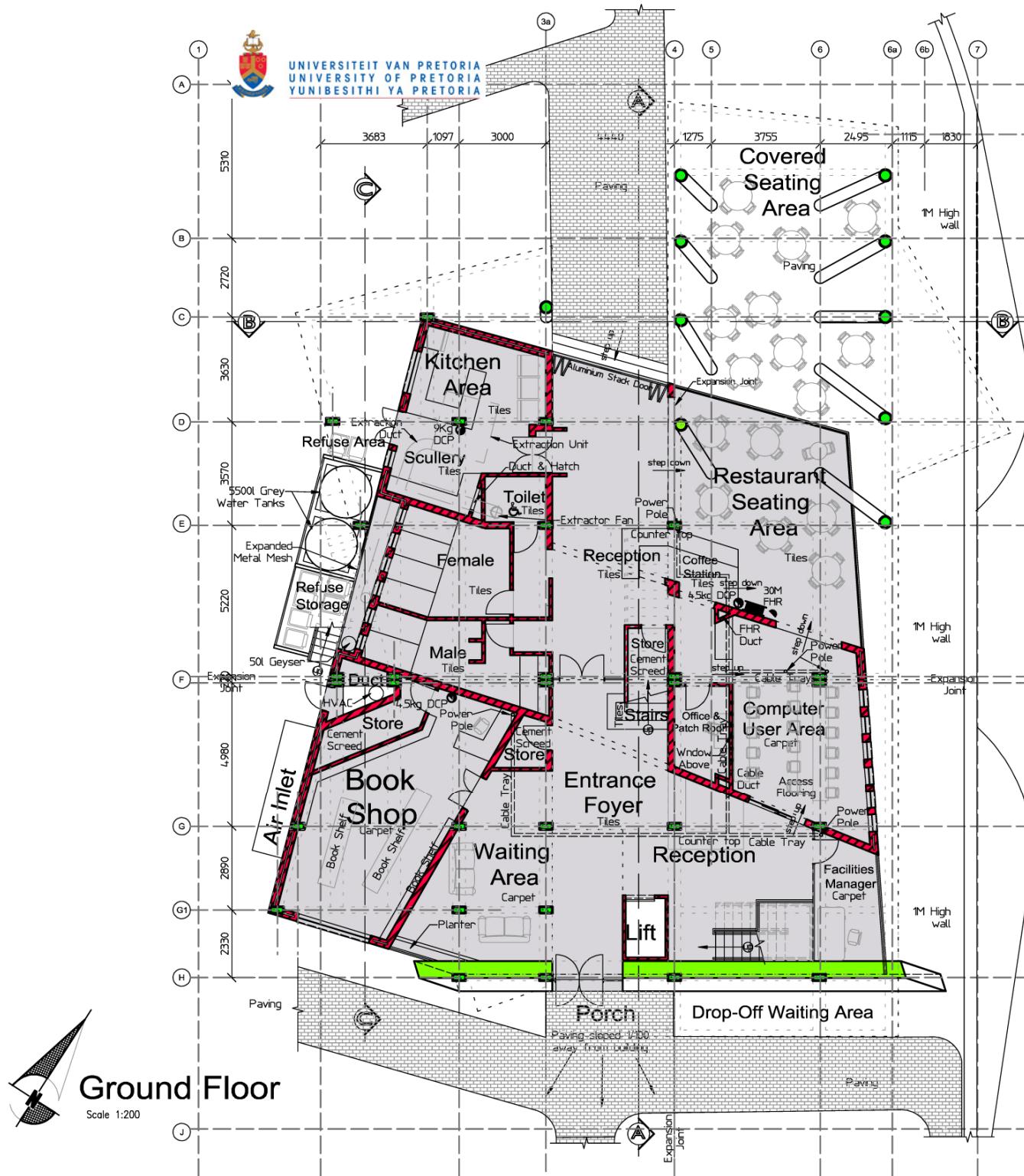
8.1 Introduction

This chapter contains a simplified version of the technical documentation. The simplification is to enable legibility and scale.

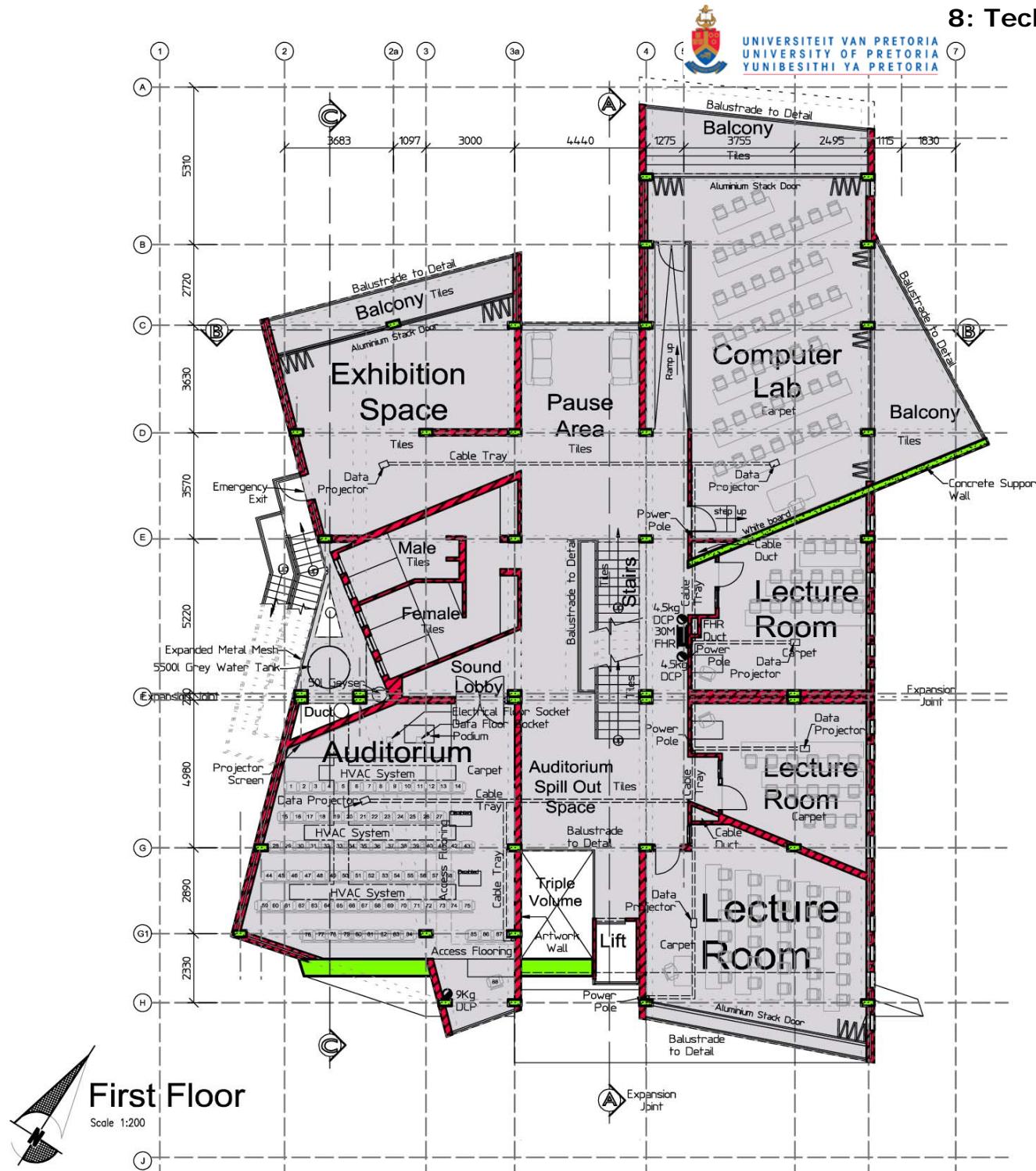
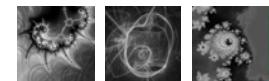
It is believed that the technical documentation should be read in conjunction with the other chapters, especially Chapter 2 and Chapter 7.

The intent of the documentation is to show intent rather than complete working drawings.

8.2 Documentation

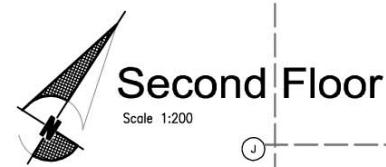


8: Technical Documentation

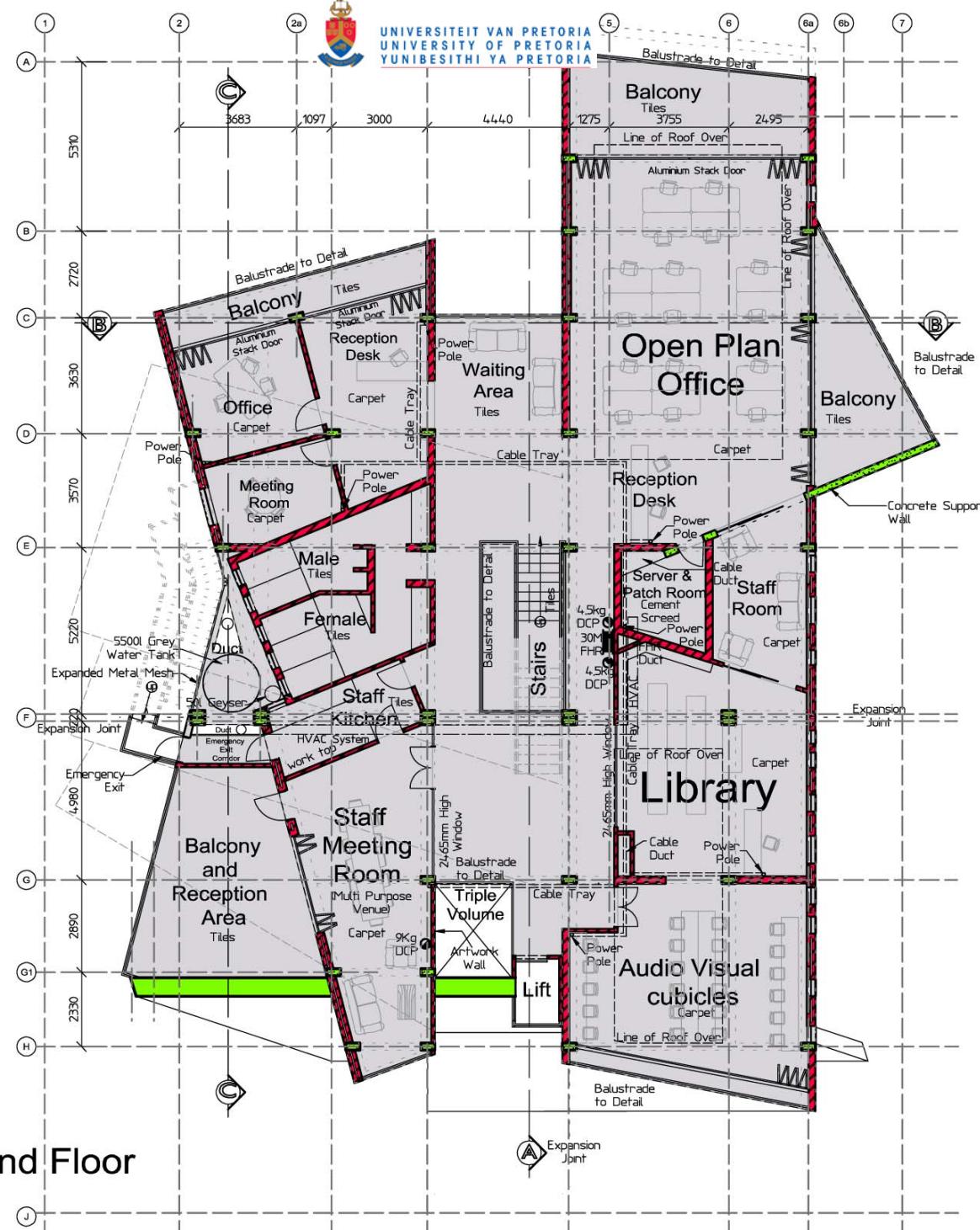




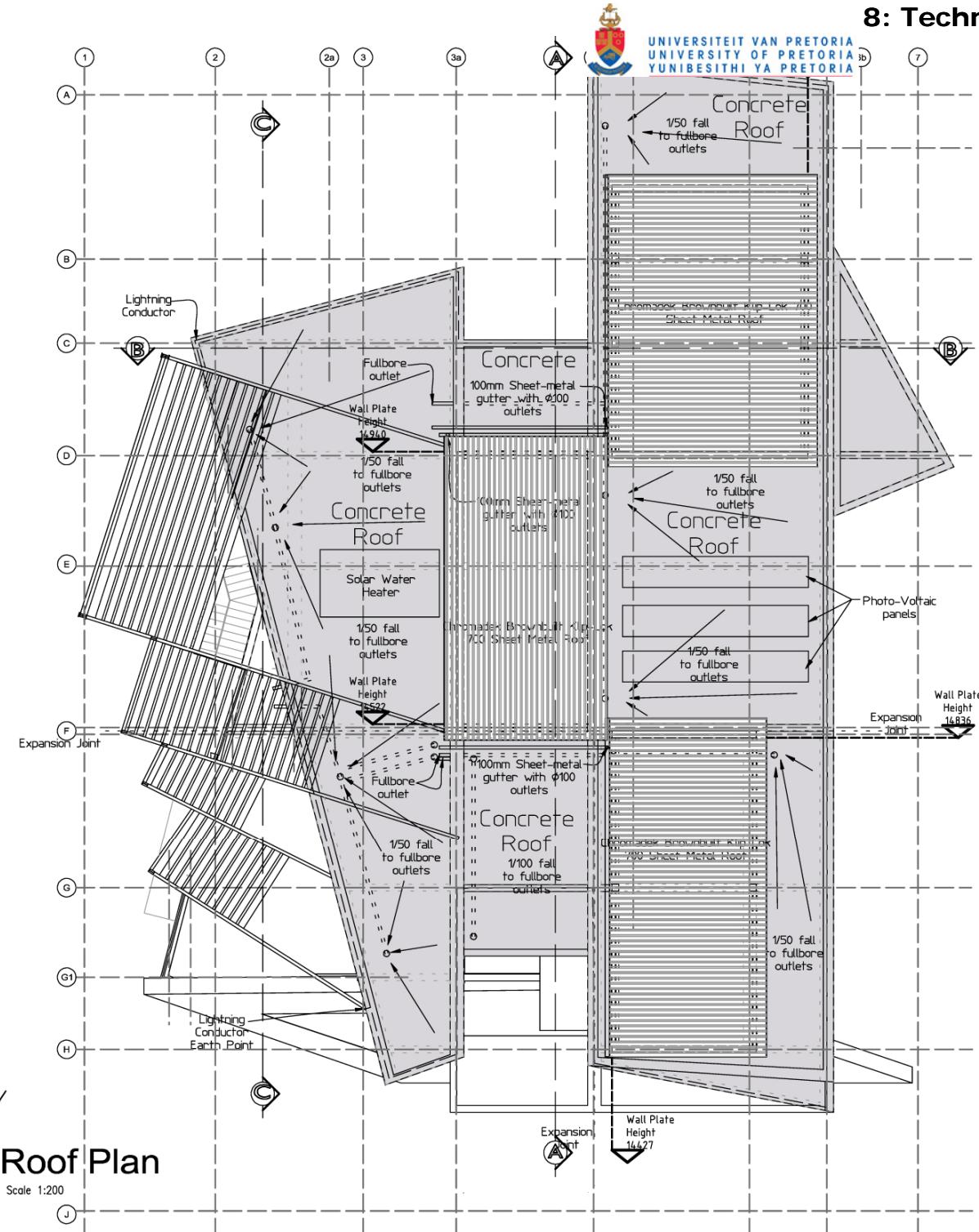
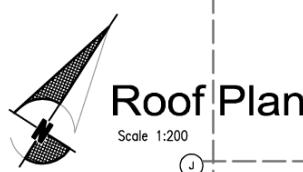
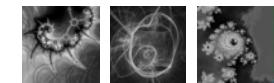
UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

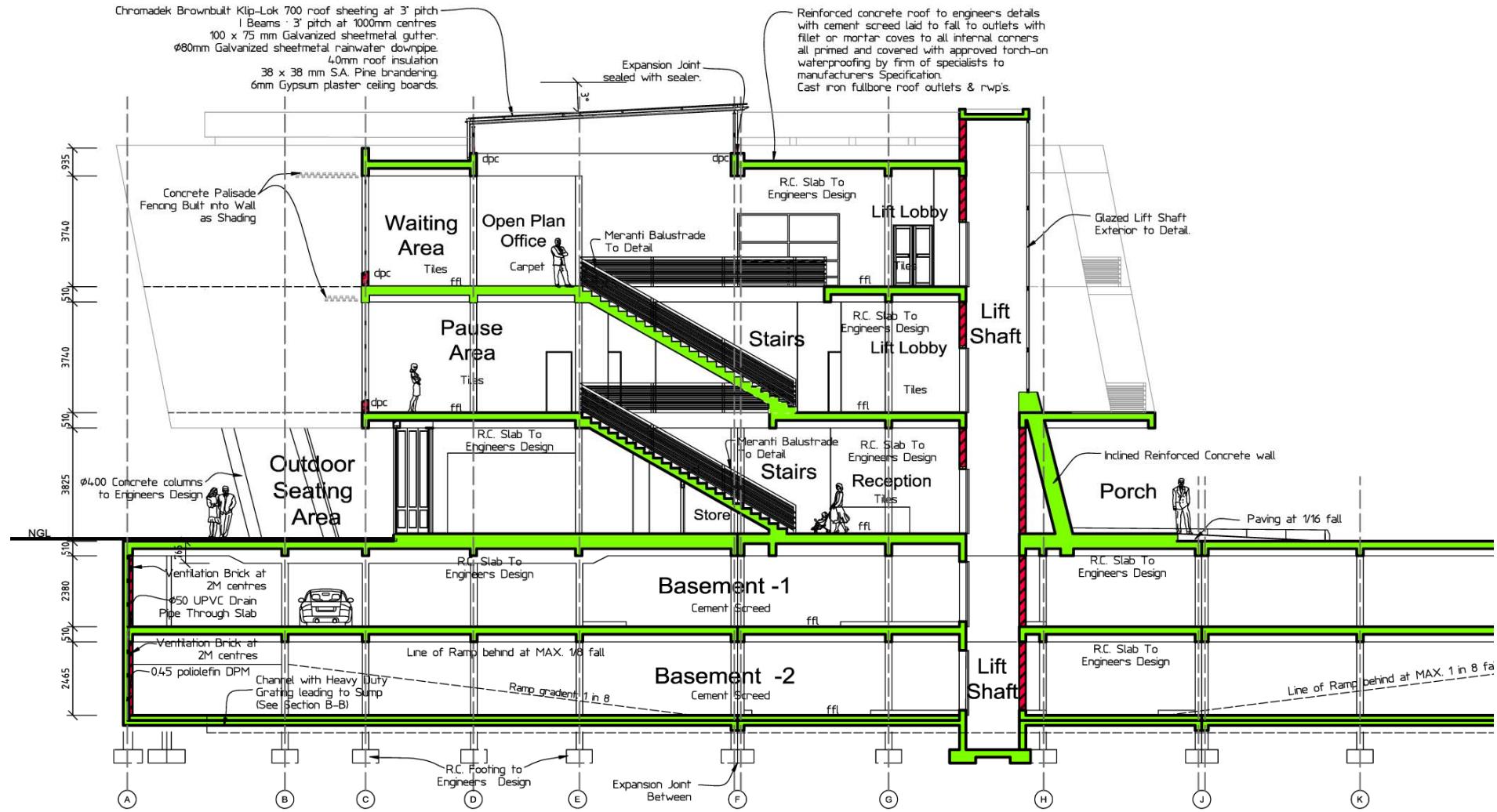


90



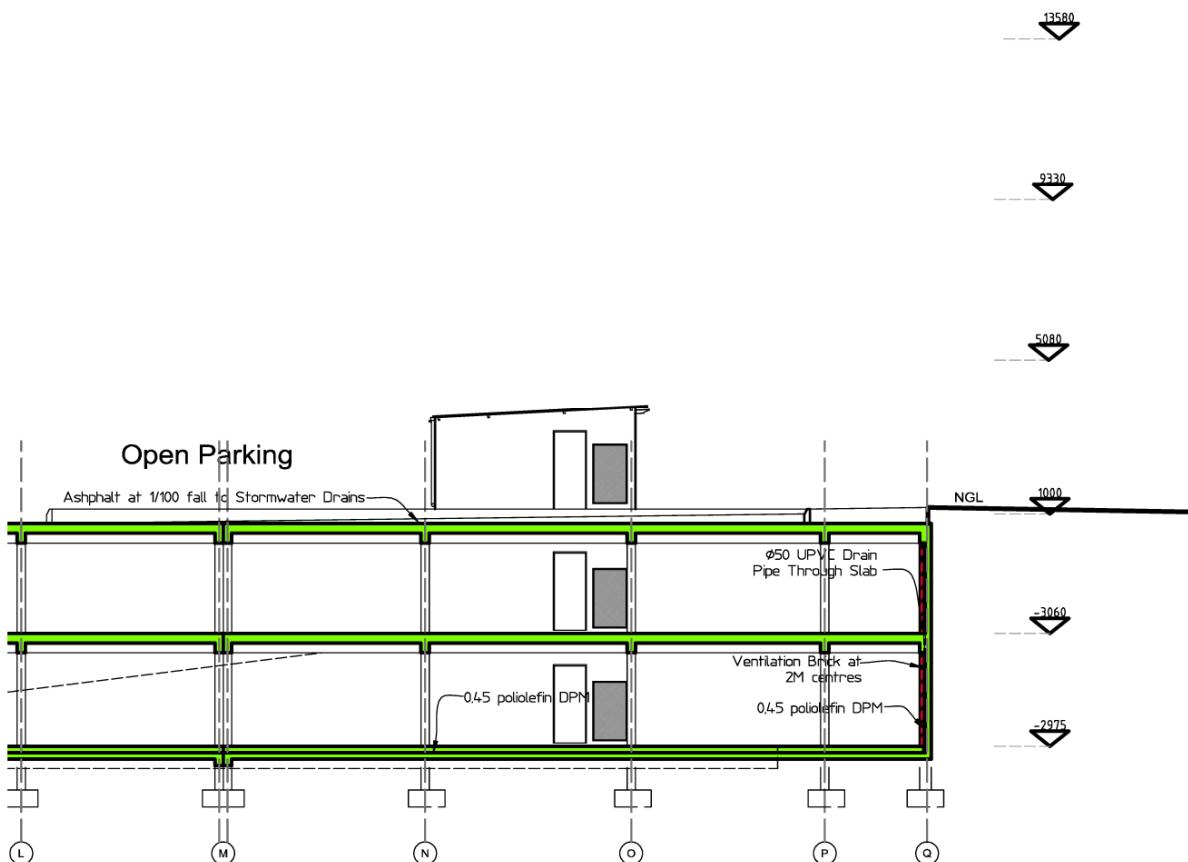
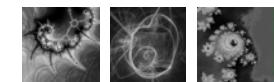
8: Technical Documentation

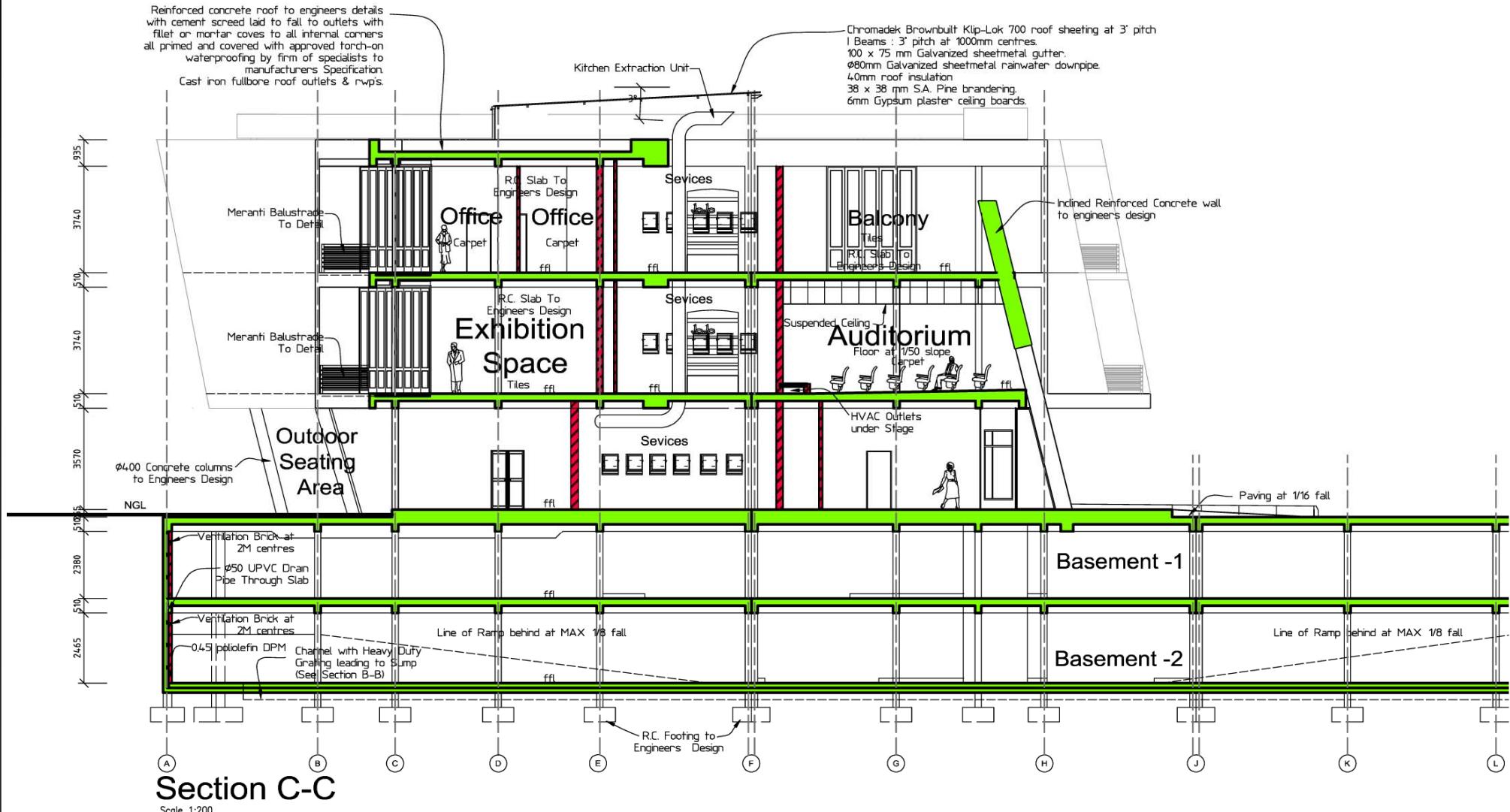


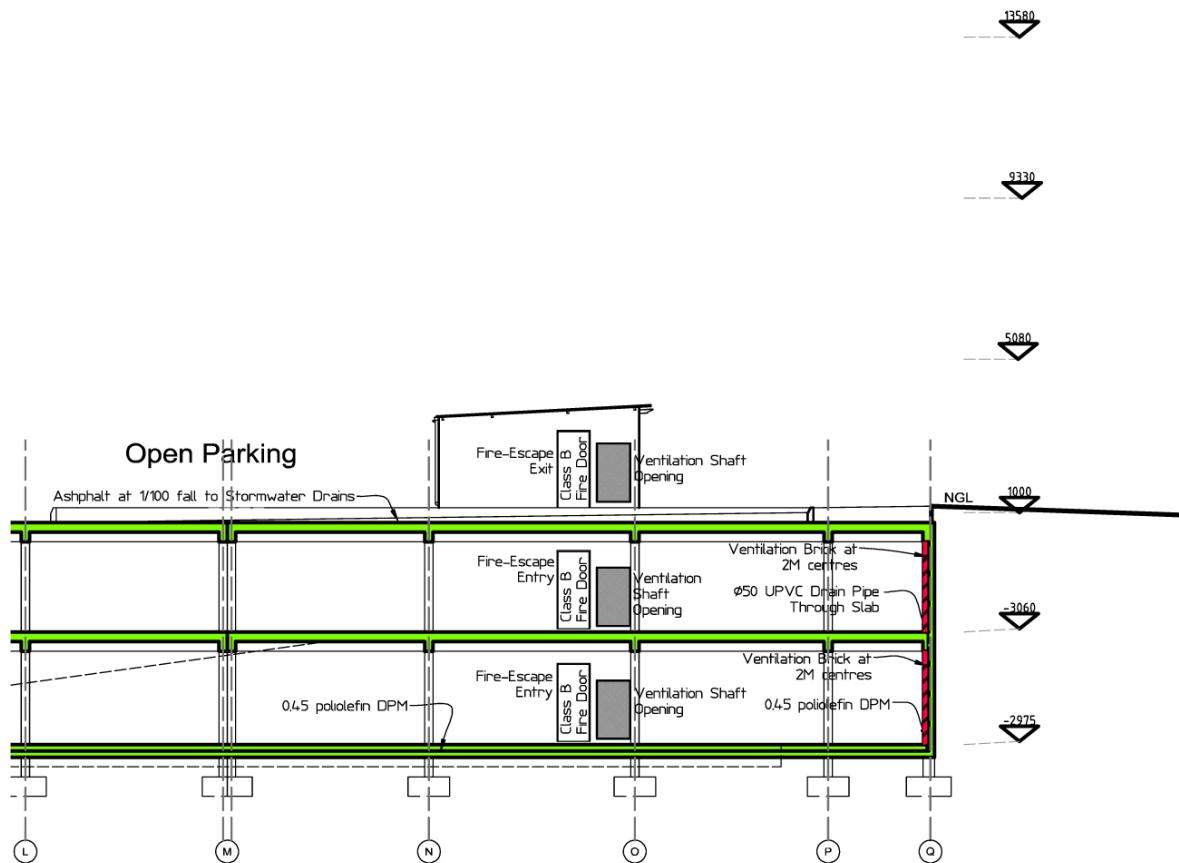
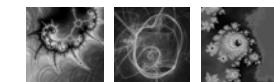


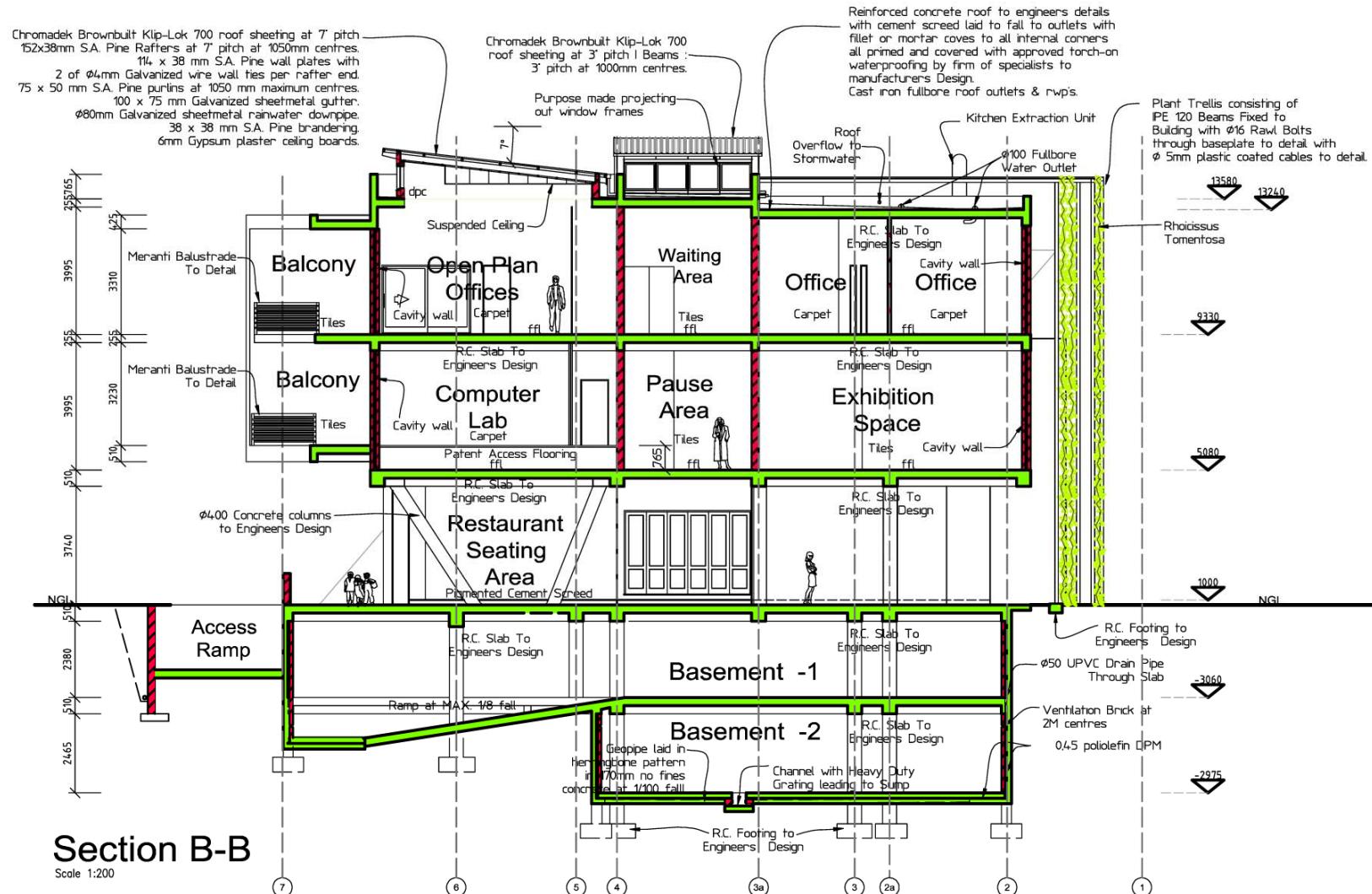
Section A-A

Scale 1:200



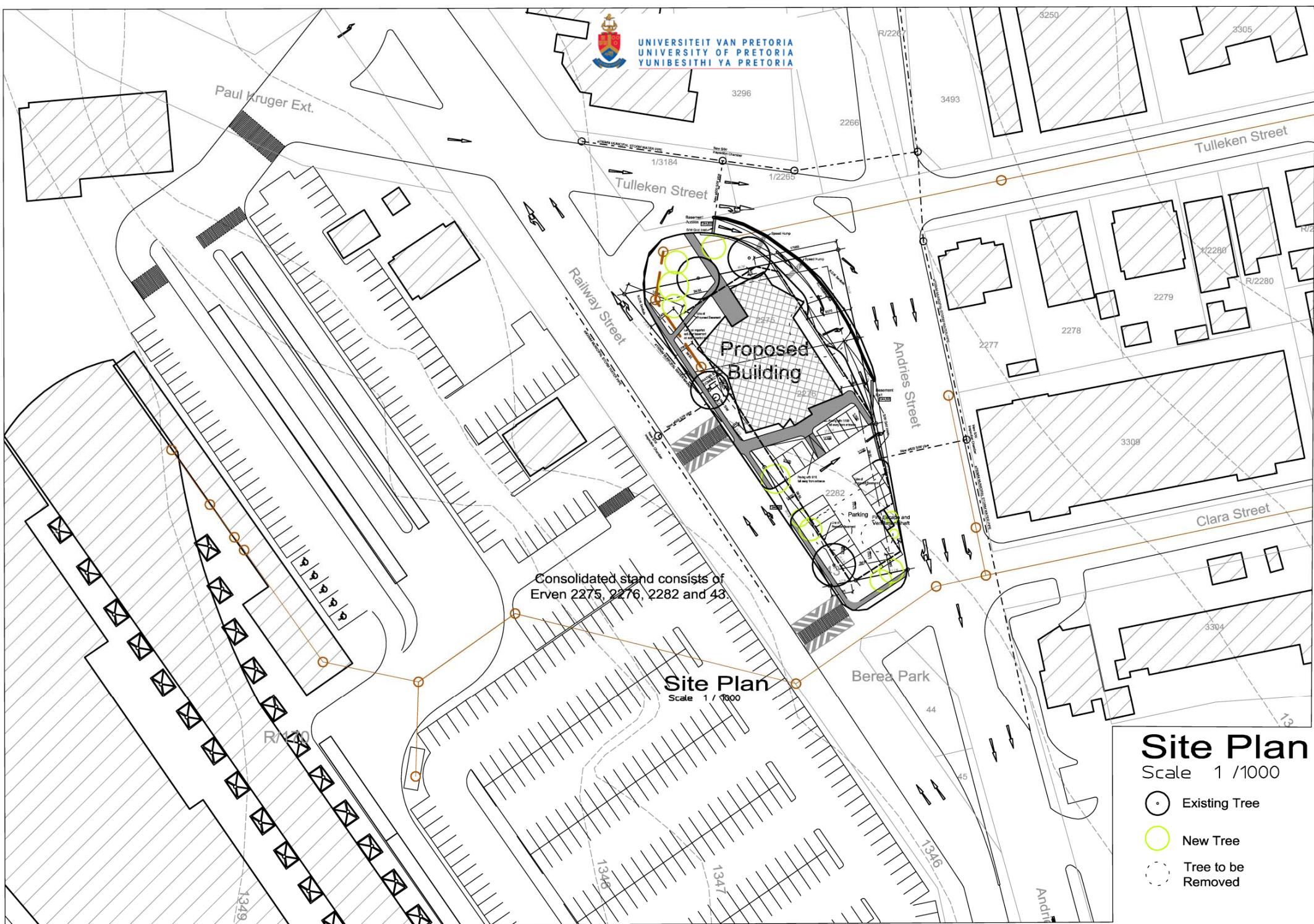


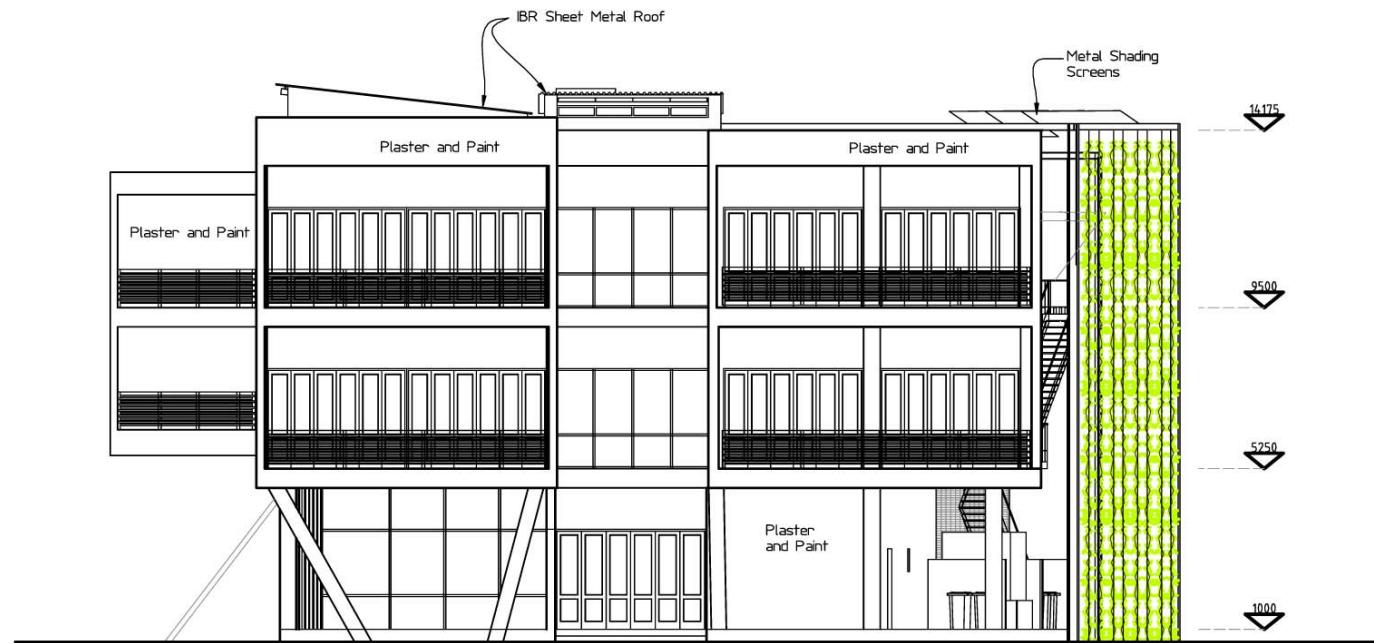






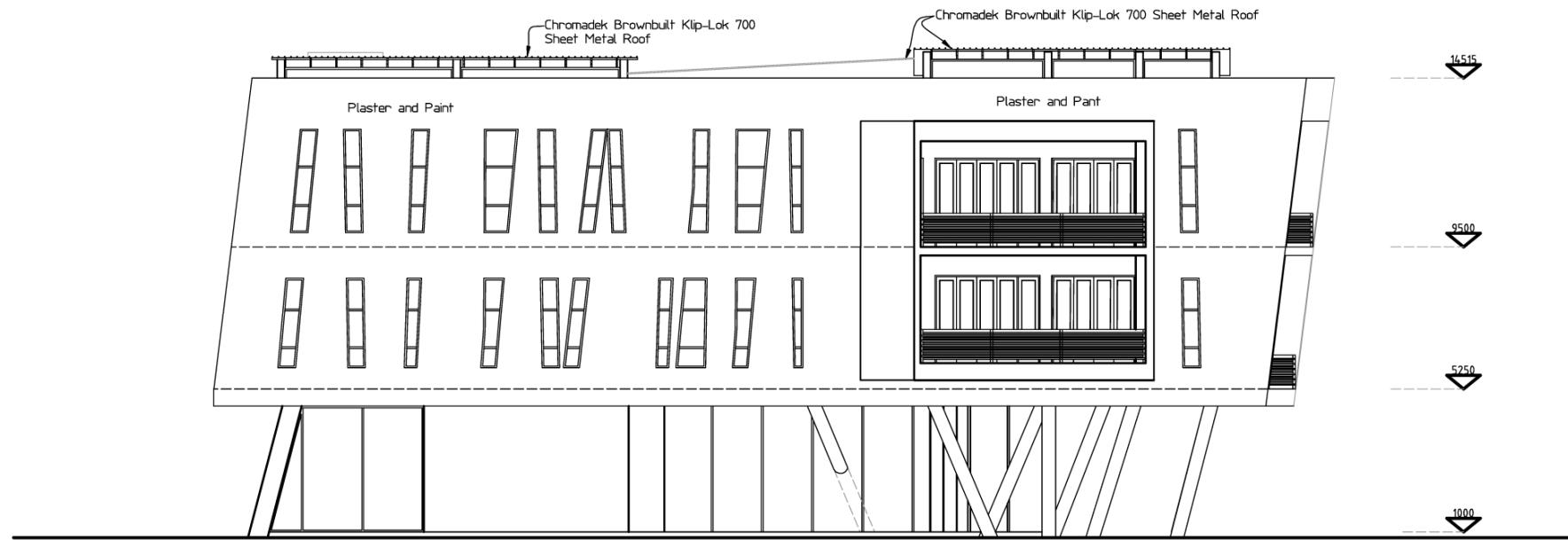
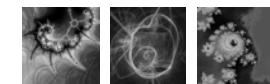
UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA





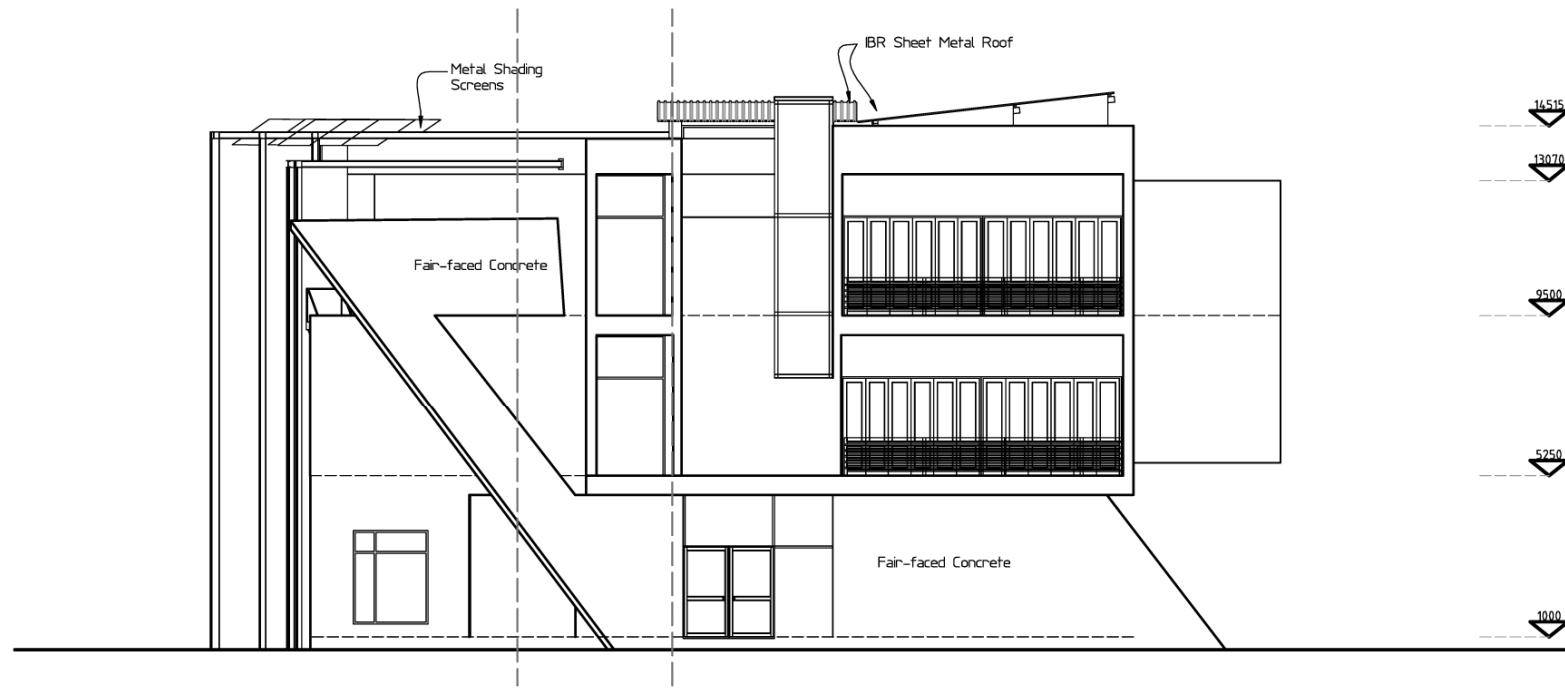
North Elevation

Scale 1:200



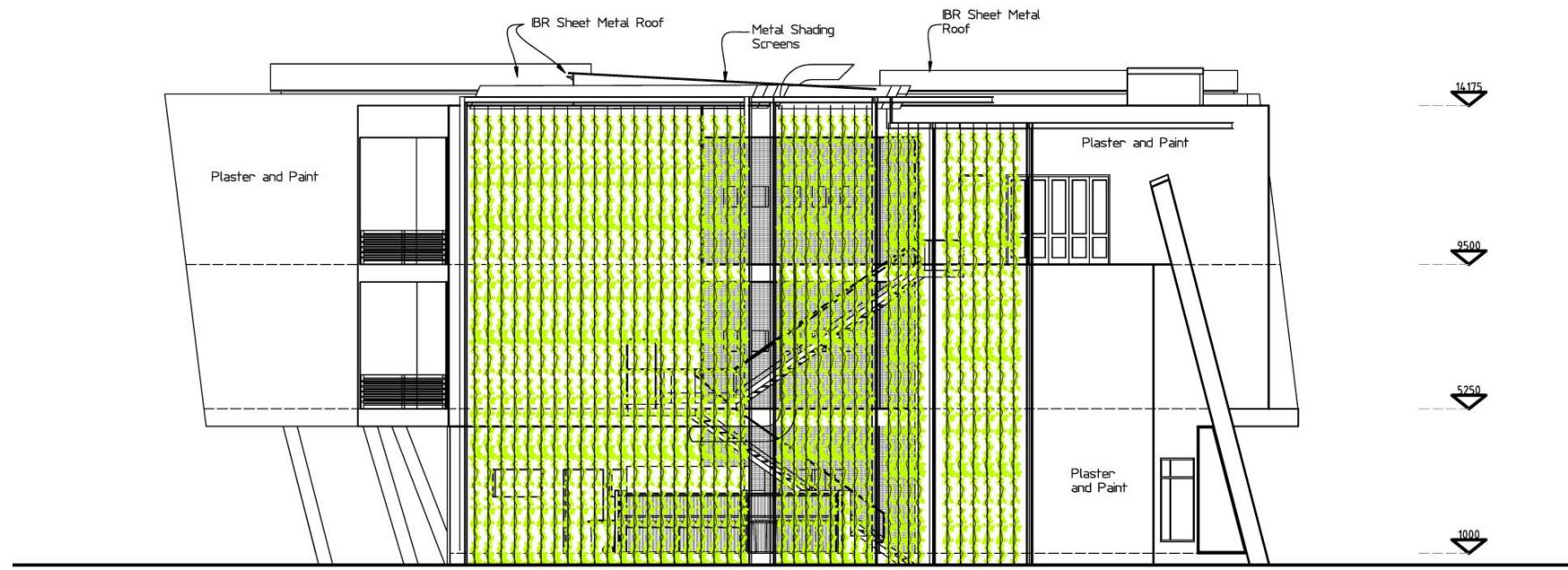
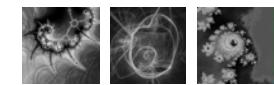
East Elevation

Scale 1:200



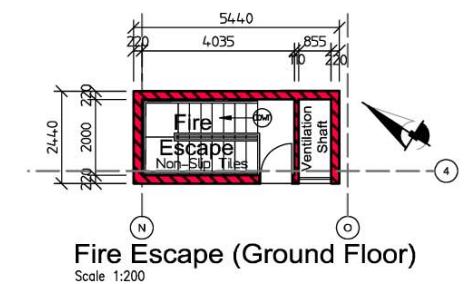
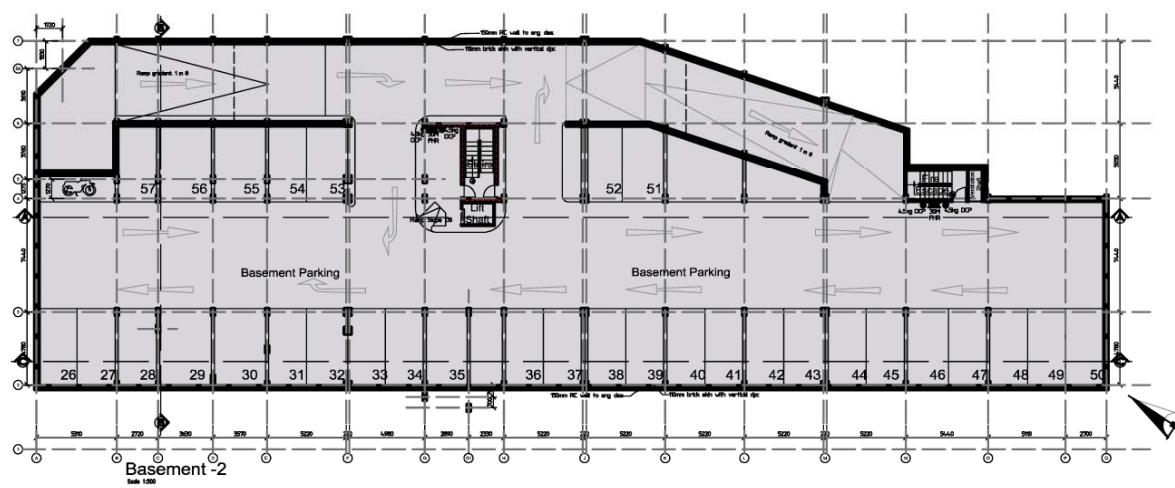
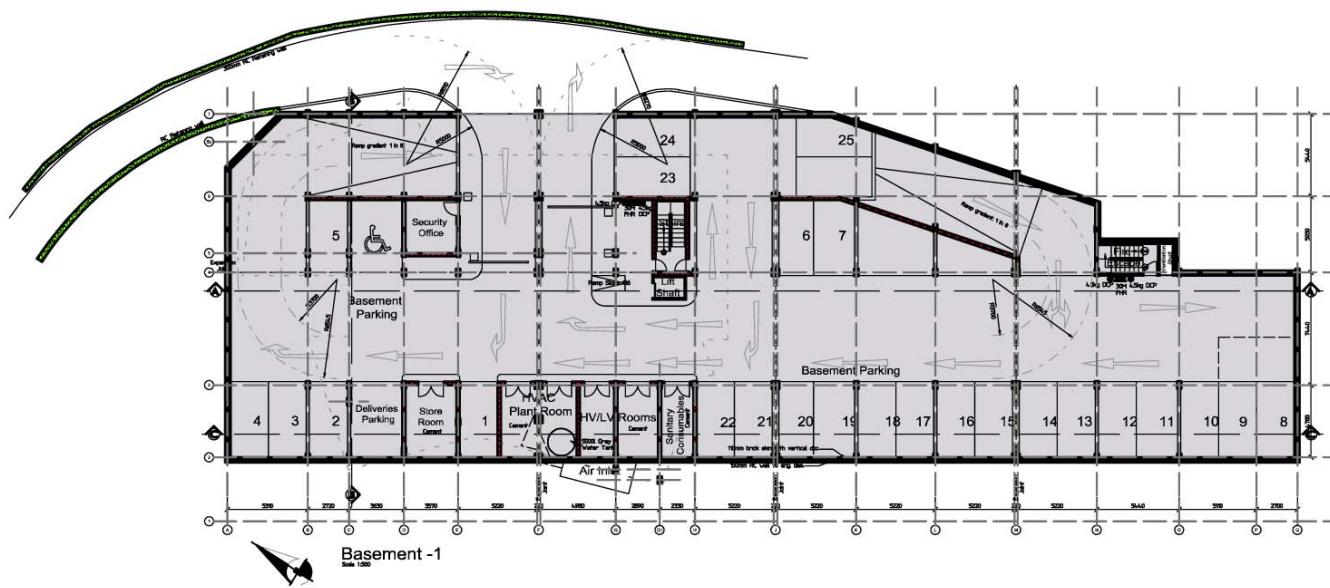
South Elevation

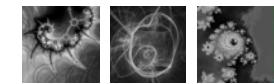
Scale 1:200



West Elevation

Scale 1:200





Basement Wall Detail

Scale 1:20

The diagram illustrates a cross-section of a basement wall detail, labeled 'NGL' on the left vertical axis. The wall consists of several layers from left to right:

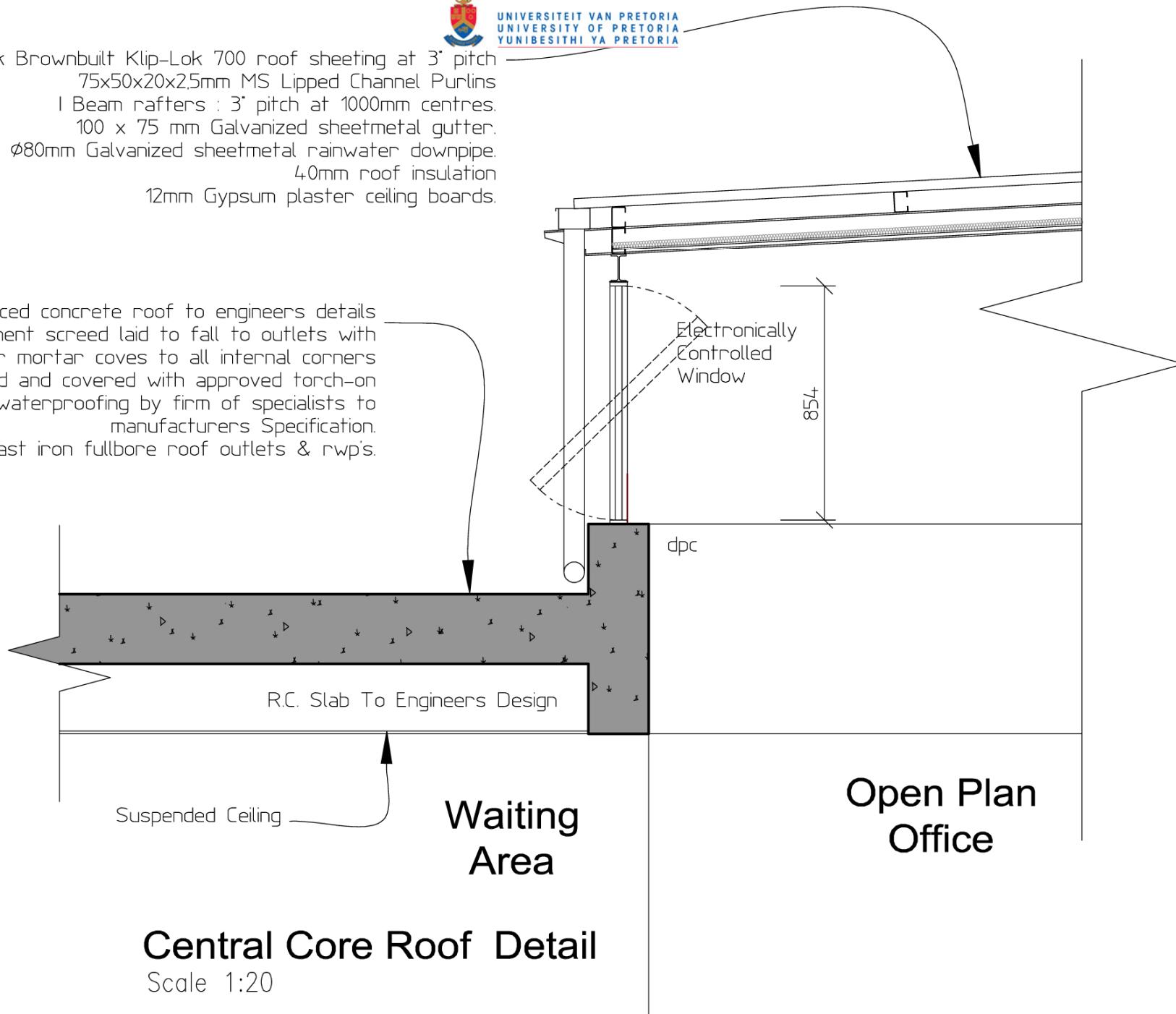
- Masonry wall
- Cement plaster and Paint
- Ventilation Brick at 2M centres
- $\phi 50$ UPVC Drain Pipe Through Slab at 1M centres
- Cavity
- Guniting and anchorage to stabilise excavation face
- No-fines reinforced concrete retaining wall
- Cavity
- Masonry wall
- Cement plaster and Paint
- Ventilation Brick at 2M centres
- Off-shutter concrete finish
- Cavity
- Masonry wall
- Cement plaster and Paint
- Ventilation Brick at 2M centres
- 0.45 polyolefin DPM
- 200mm no-fines concrete base with geopipes laid in herringbone pattern.
- Reinforced concrete column footing.

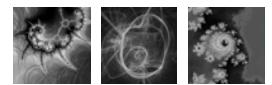
Dimensions shown include 200 and 150 mm for the concrete base and footing respectively, and 200mm for the reinforcement. A note indicates a height of 1.20m for the concrete base.



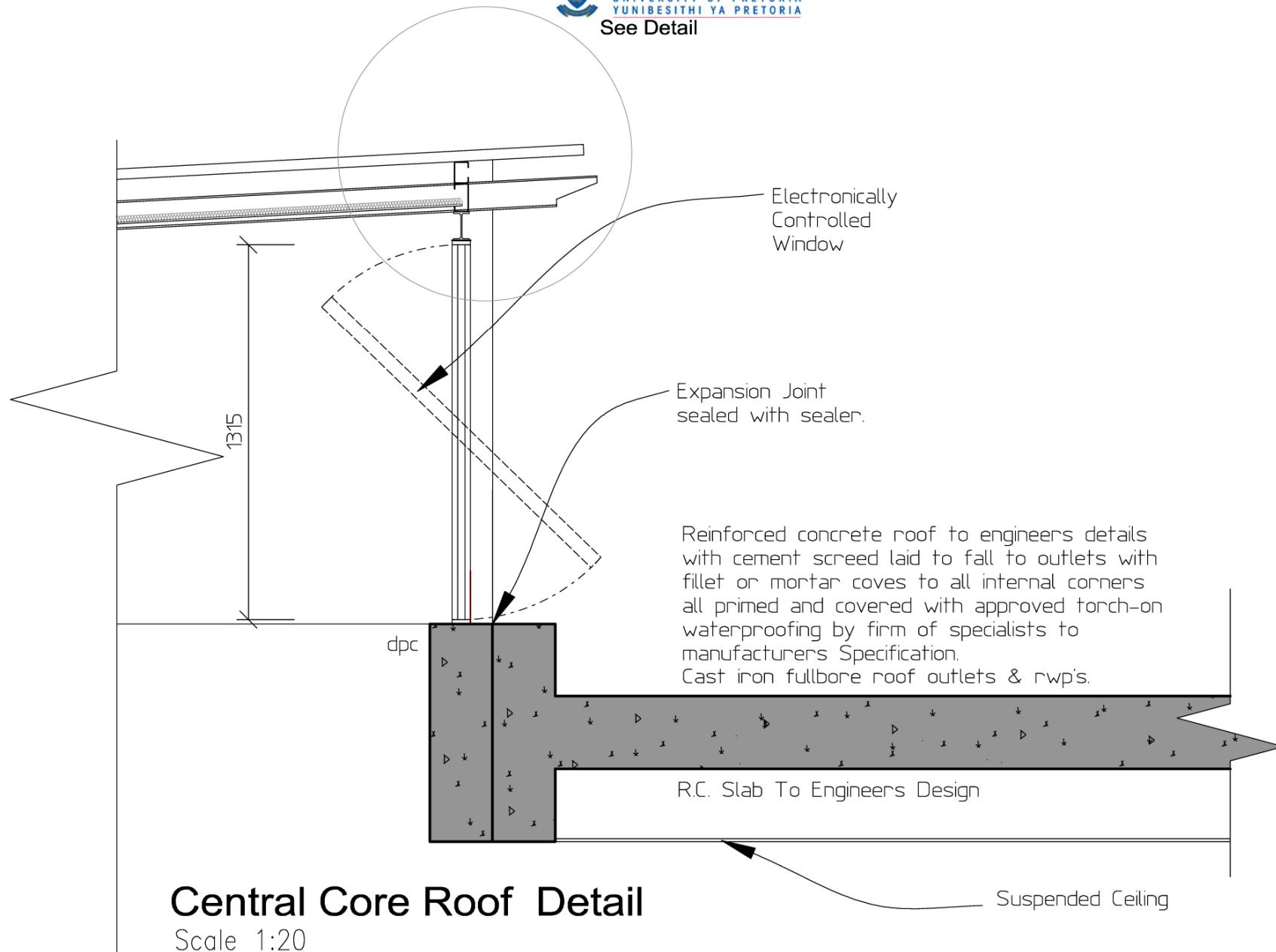
Chromadek Brownbuilt Klip-Lok 700 roof sheeting at 3° pitch
75x50x20x2.5mm MS Lipped Channel Purlins
I Beam rafters : 3° pitch at 1000mm centres.
100 x 75 mm Galvanized sheetmetal gutter.
Ø80mm Galvanized sheetmetal rainwater downpipe.
40mm roof insulation
12mm Gypsum plaster ceiling boards.

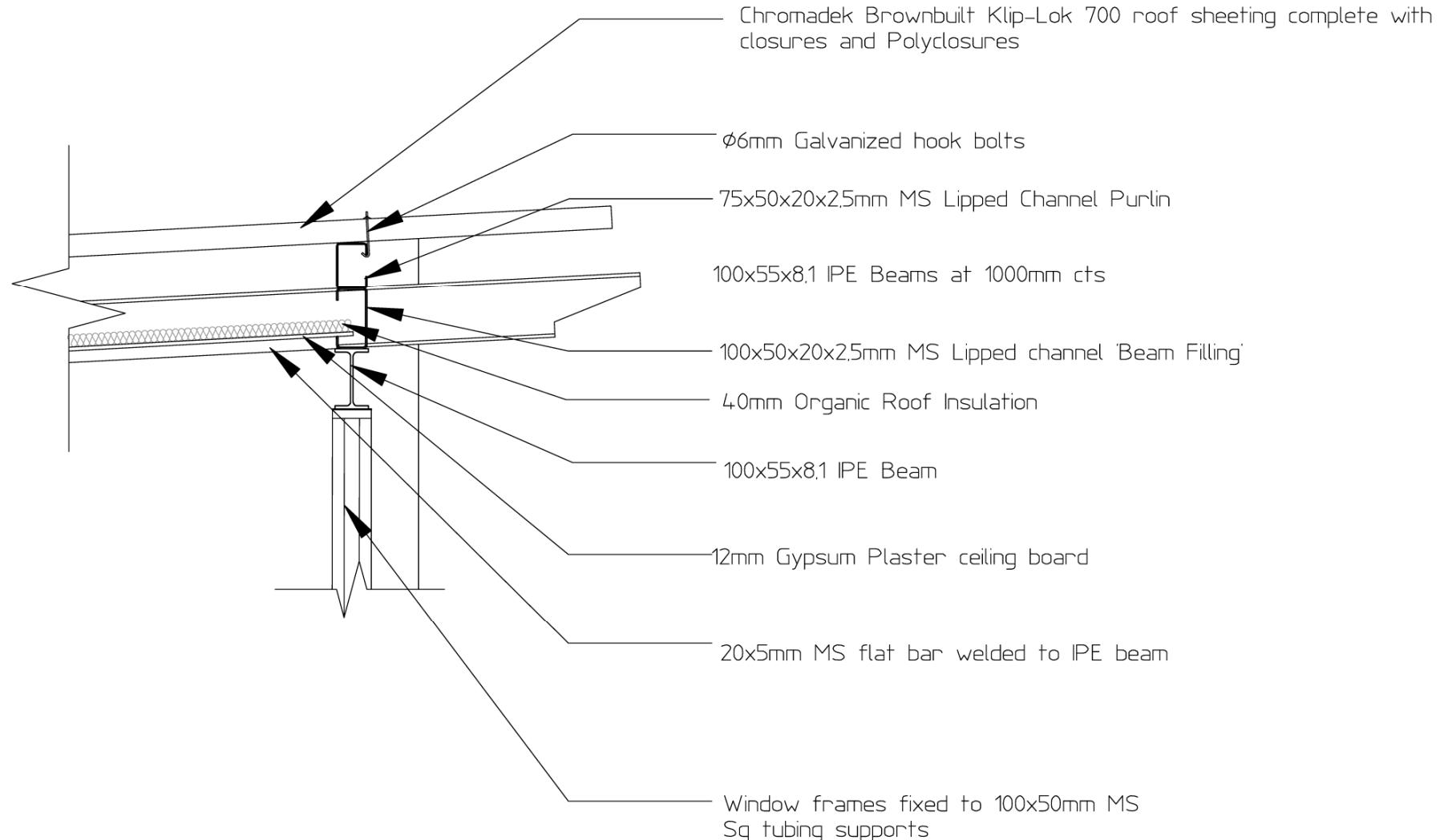
Reinforced concrete roof to engineers details with cement screed laid to fall to outlets with fillet or mortar coves to all internal corners all primed and covered with approved torch-on waterproofing by firm of specialists to manufacturers Specification.





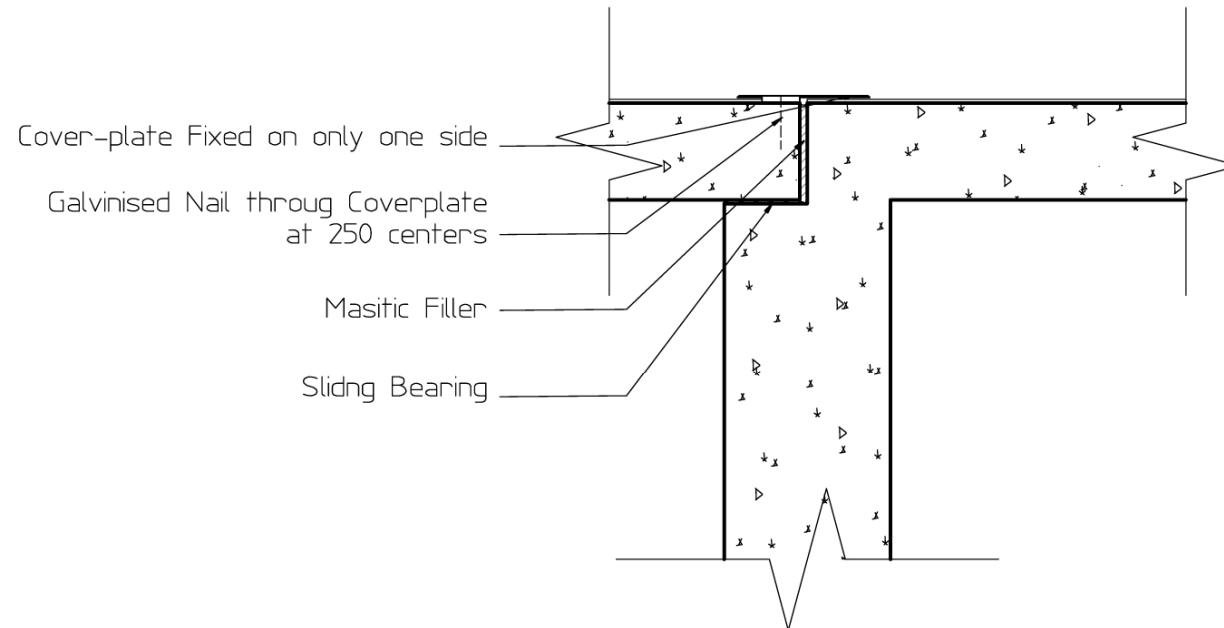
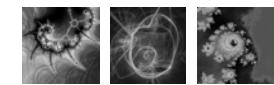
See Detail





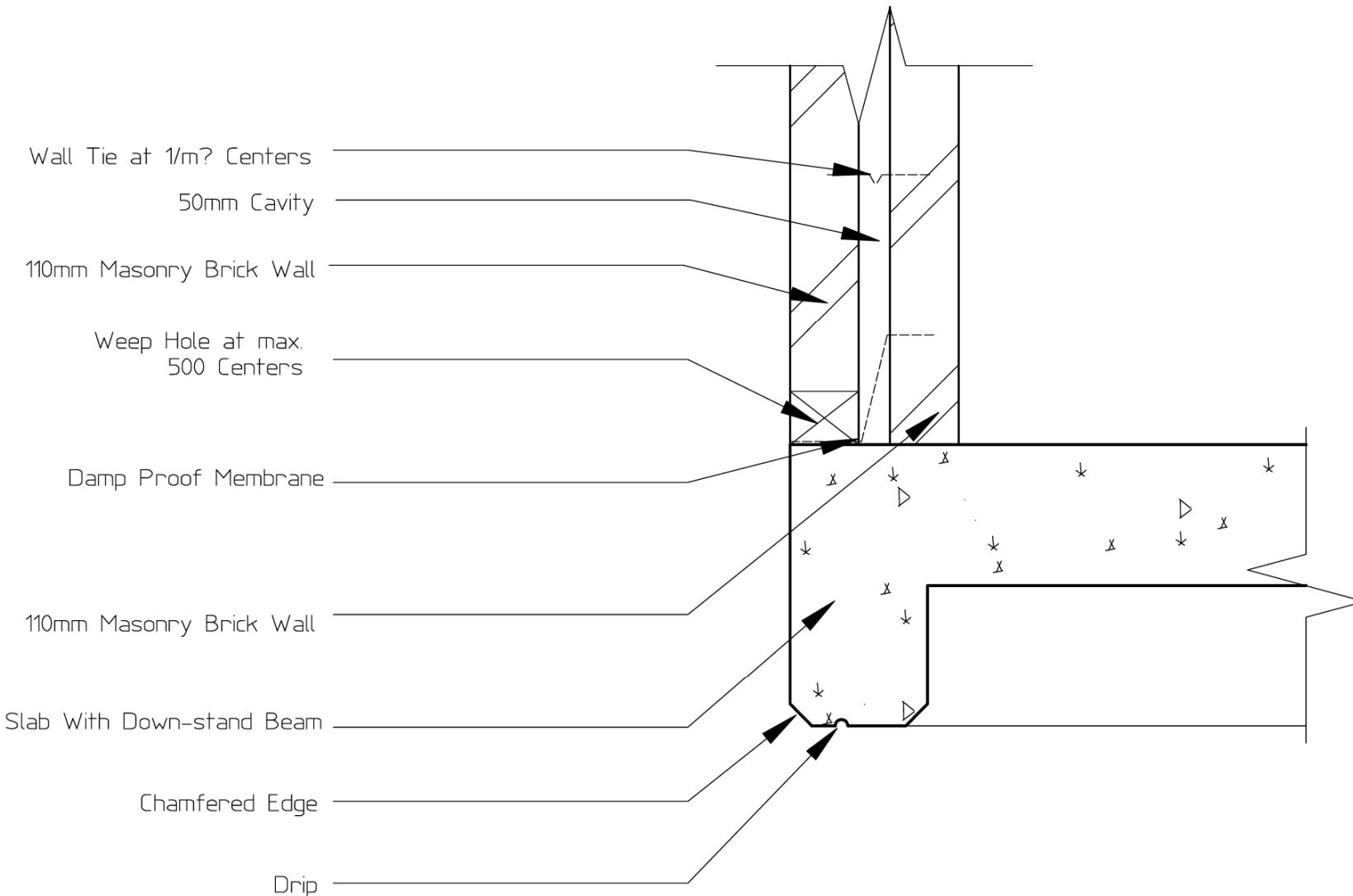
Roof Detail (Central Core)

Scale 1 : 10

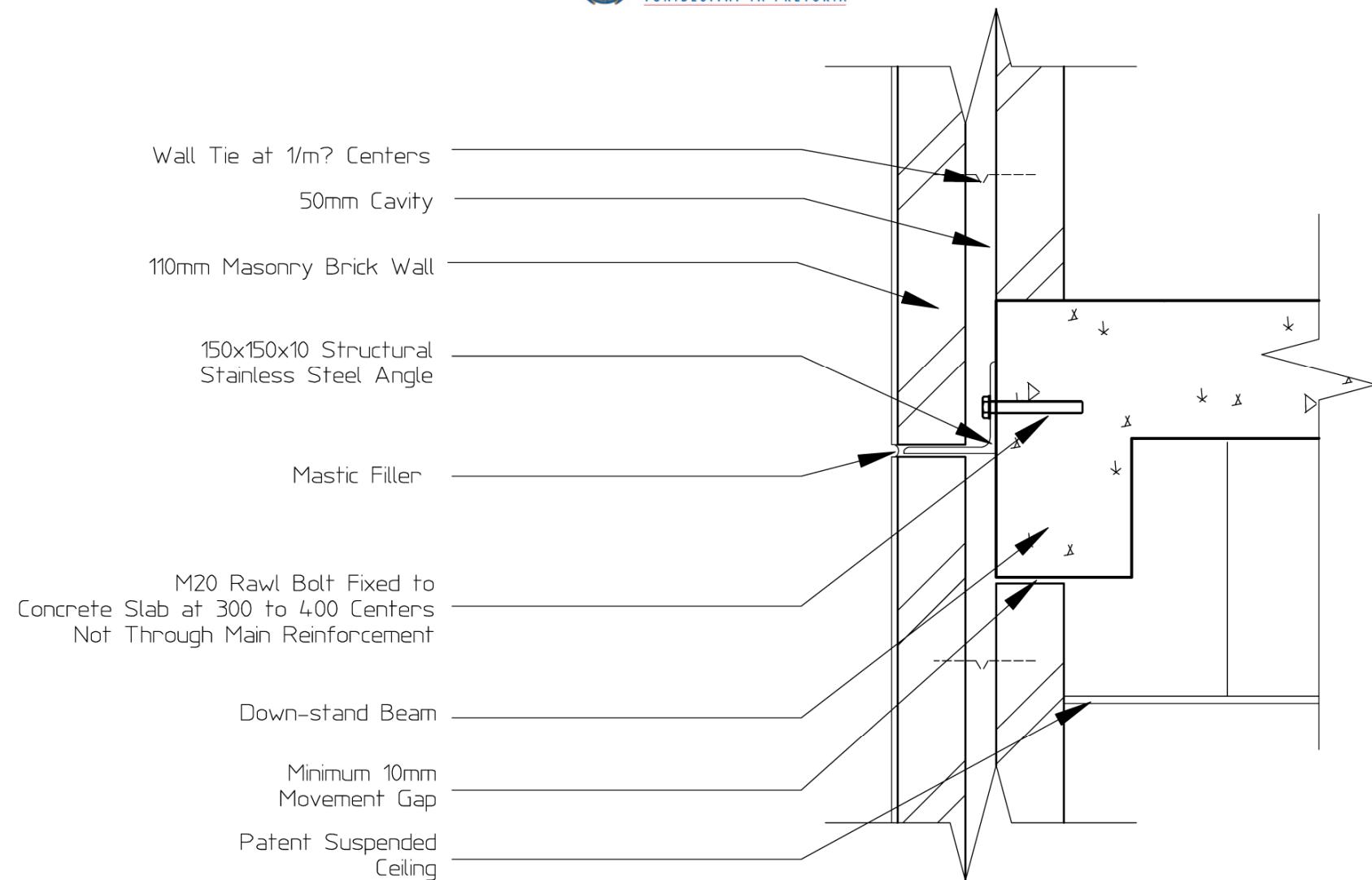
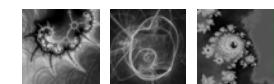


Expansion Joint Detail

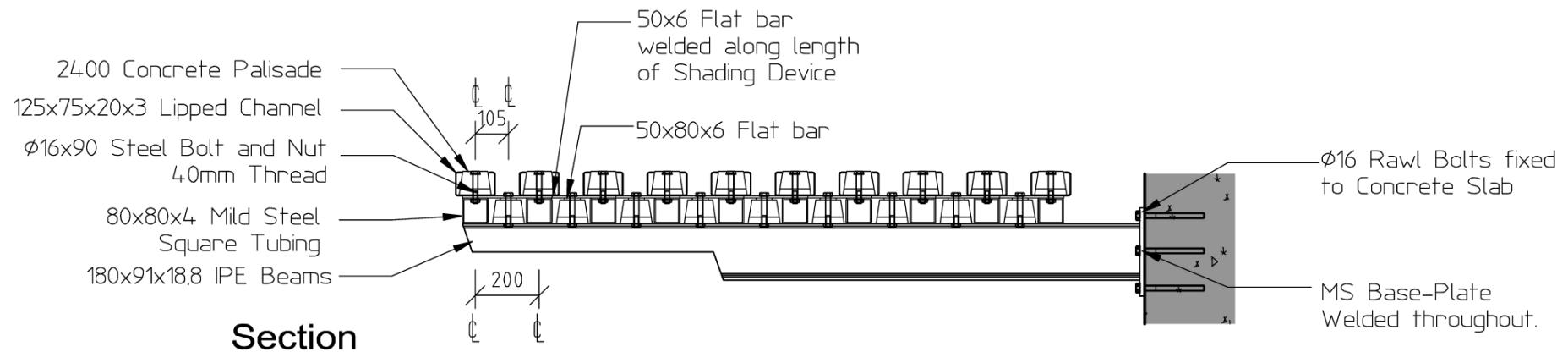
Scale 1:20



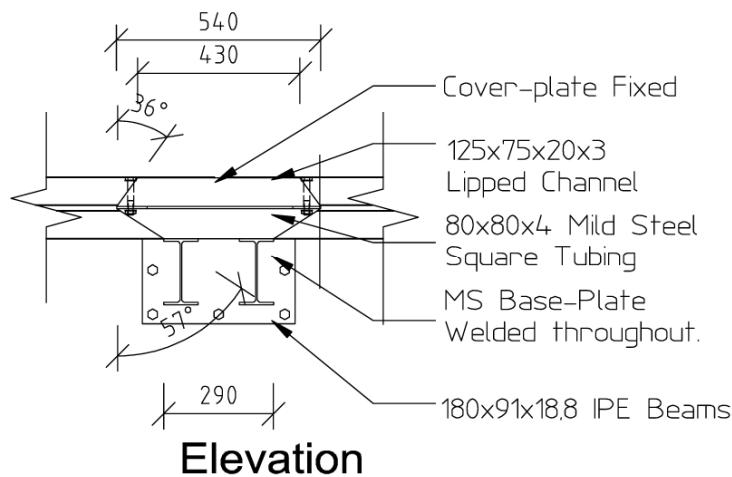
First Floor Slab Overhang Detail
Scale 1 : 10



Second Floor Slab Detail
Scale 1 : 10



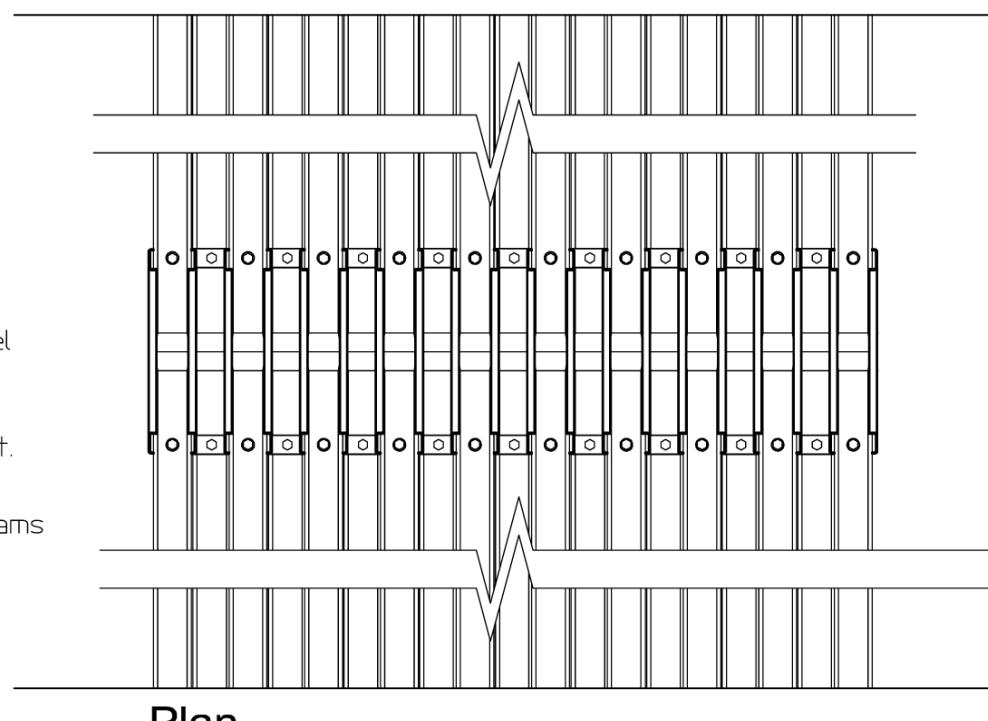
Section



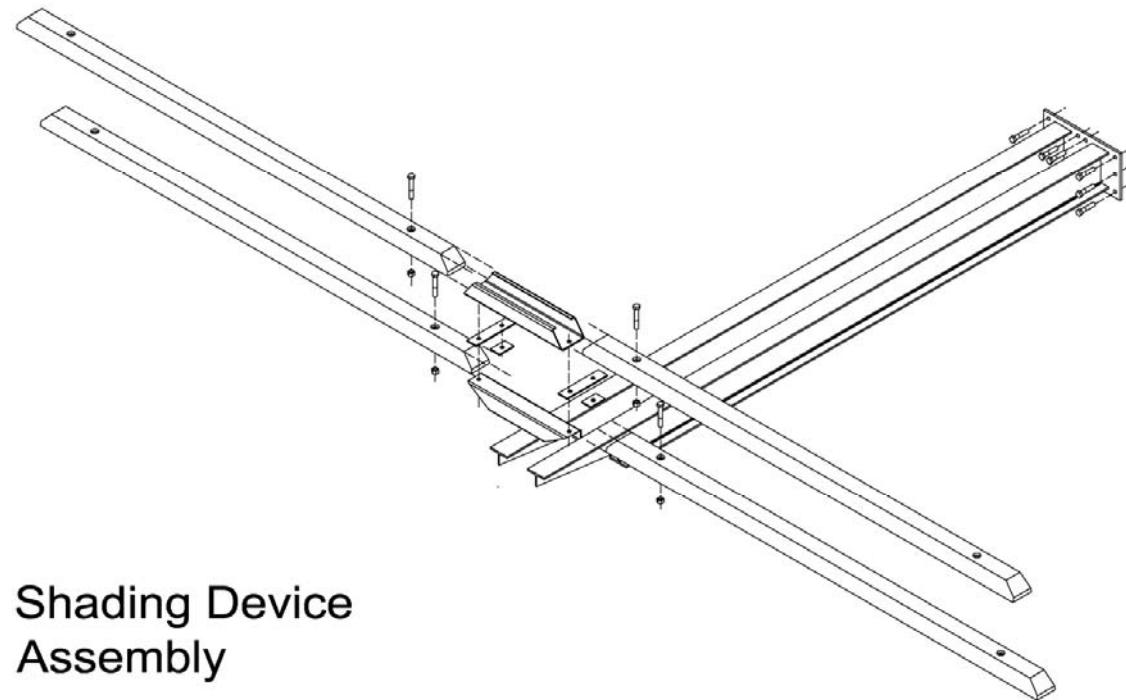
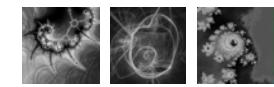
Elevation

Shading Device Detail

Scale 1:20



Plan

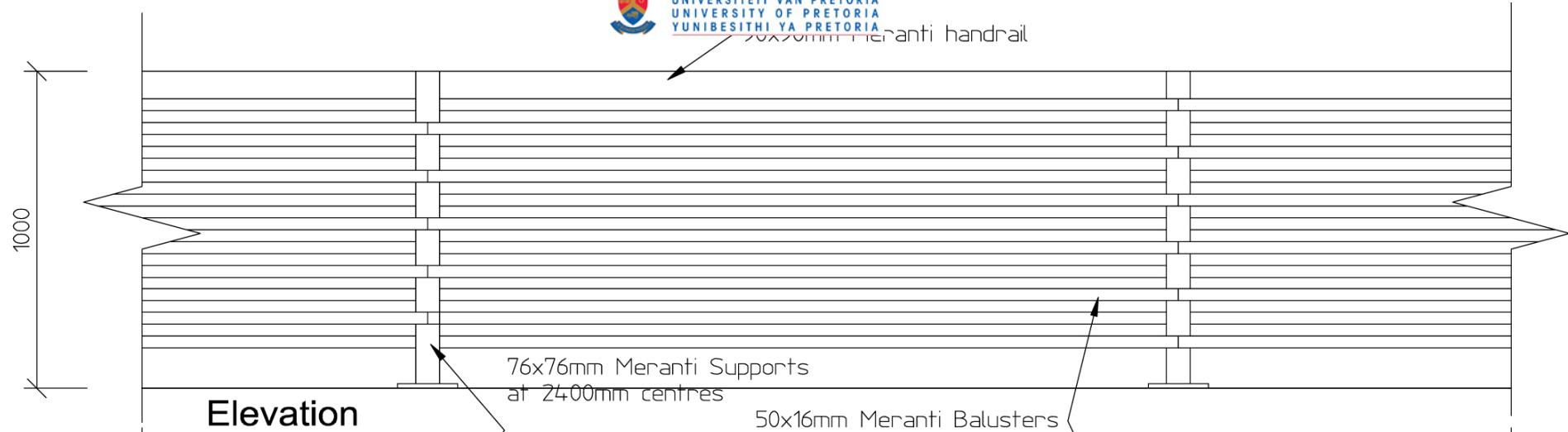


Shading Device
Assembly

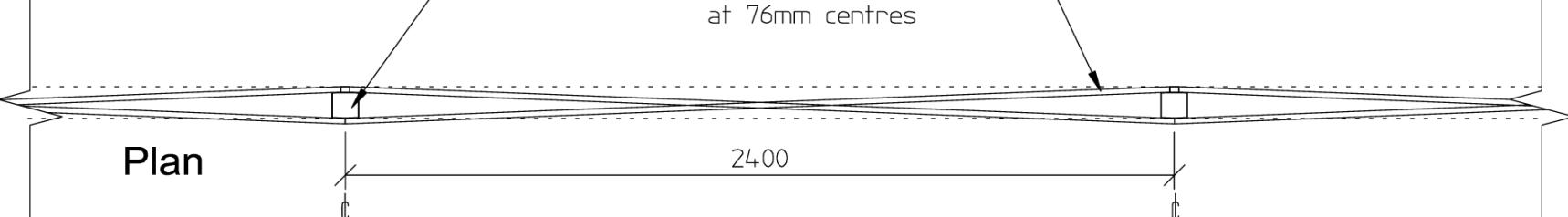


UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

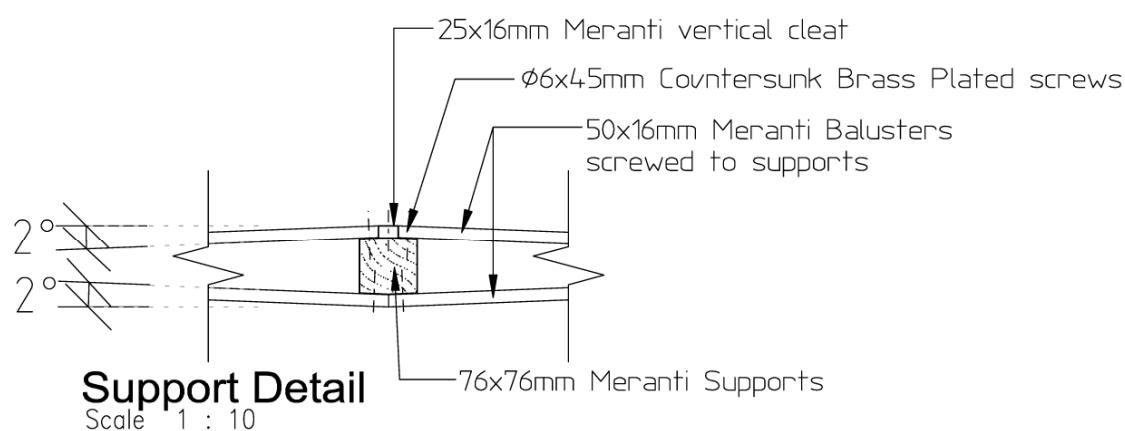
20x25mm Meranti handrail



Elevation



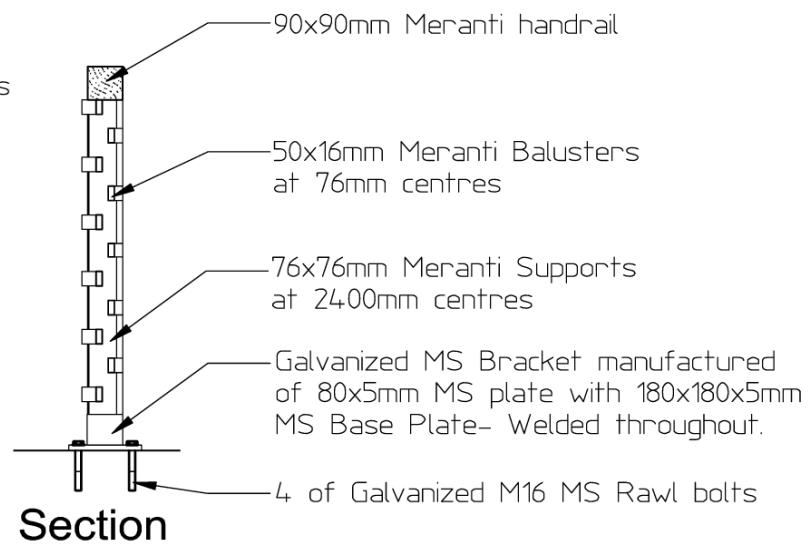
Plan



Support Detail
Scale 1 : 10

Balustrade Detail

Scale 1:20



Section