



## 8. TECHNICAL RESOLUTION

### INTRODUCTION

Chapter 8 illustrate the integration of the technological approach, design and construction.

### 8.1 PLANS

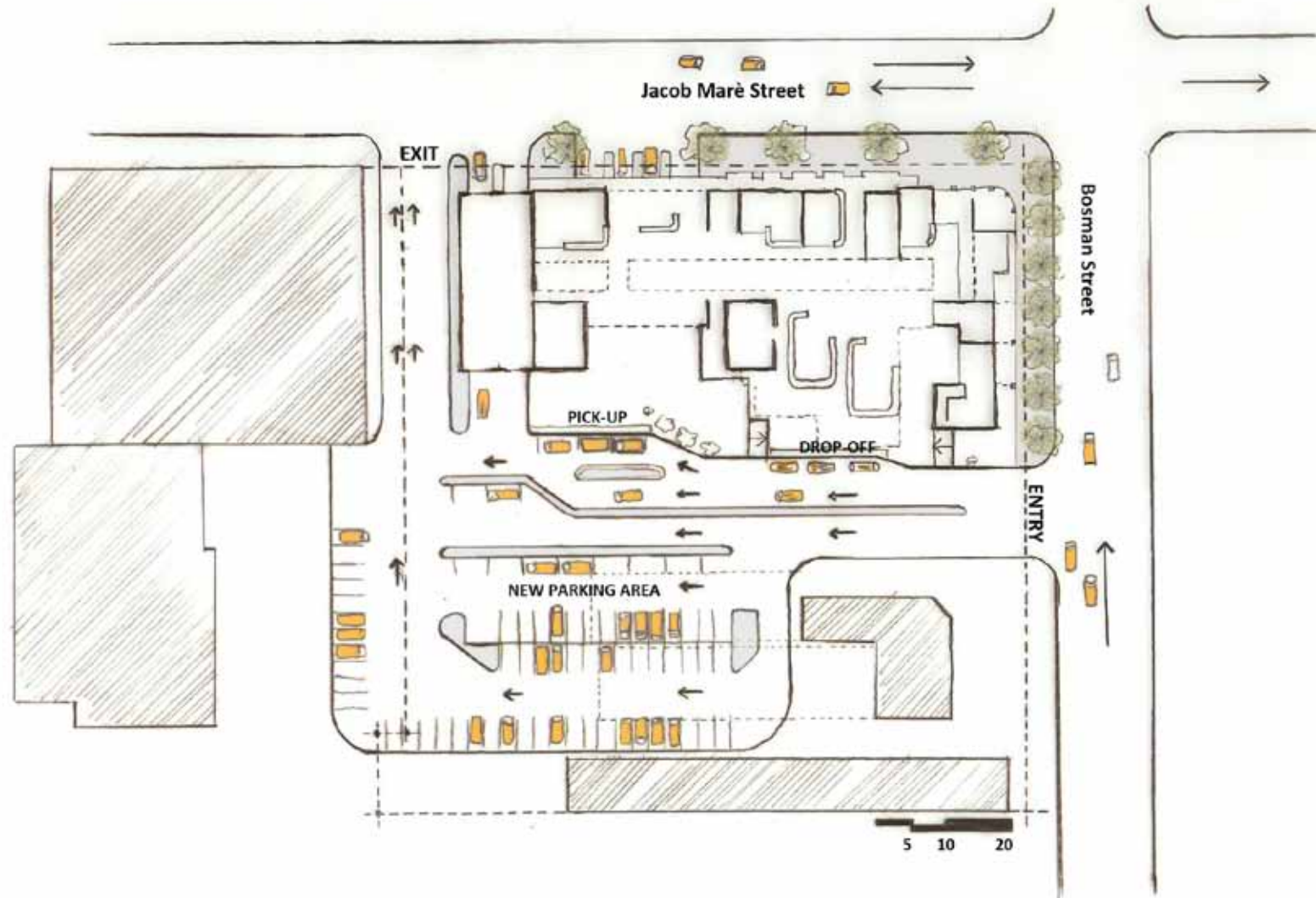


Figure 8.1: SITE PLAN\_Proposed redeveloped site plan

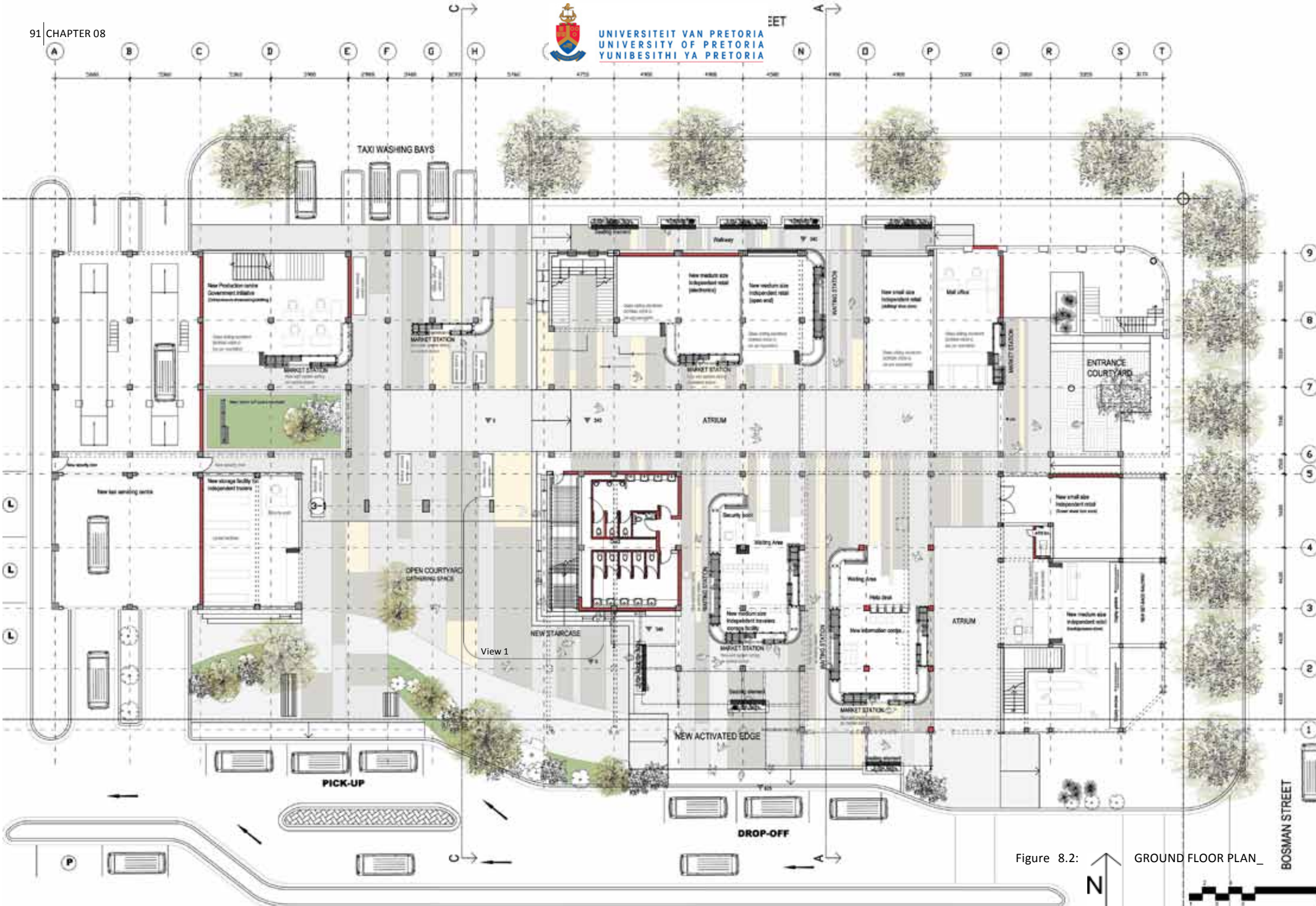


Figure 8.2: GROUND FLOOR PLAN\_

BOSMAN STREET



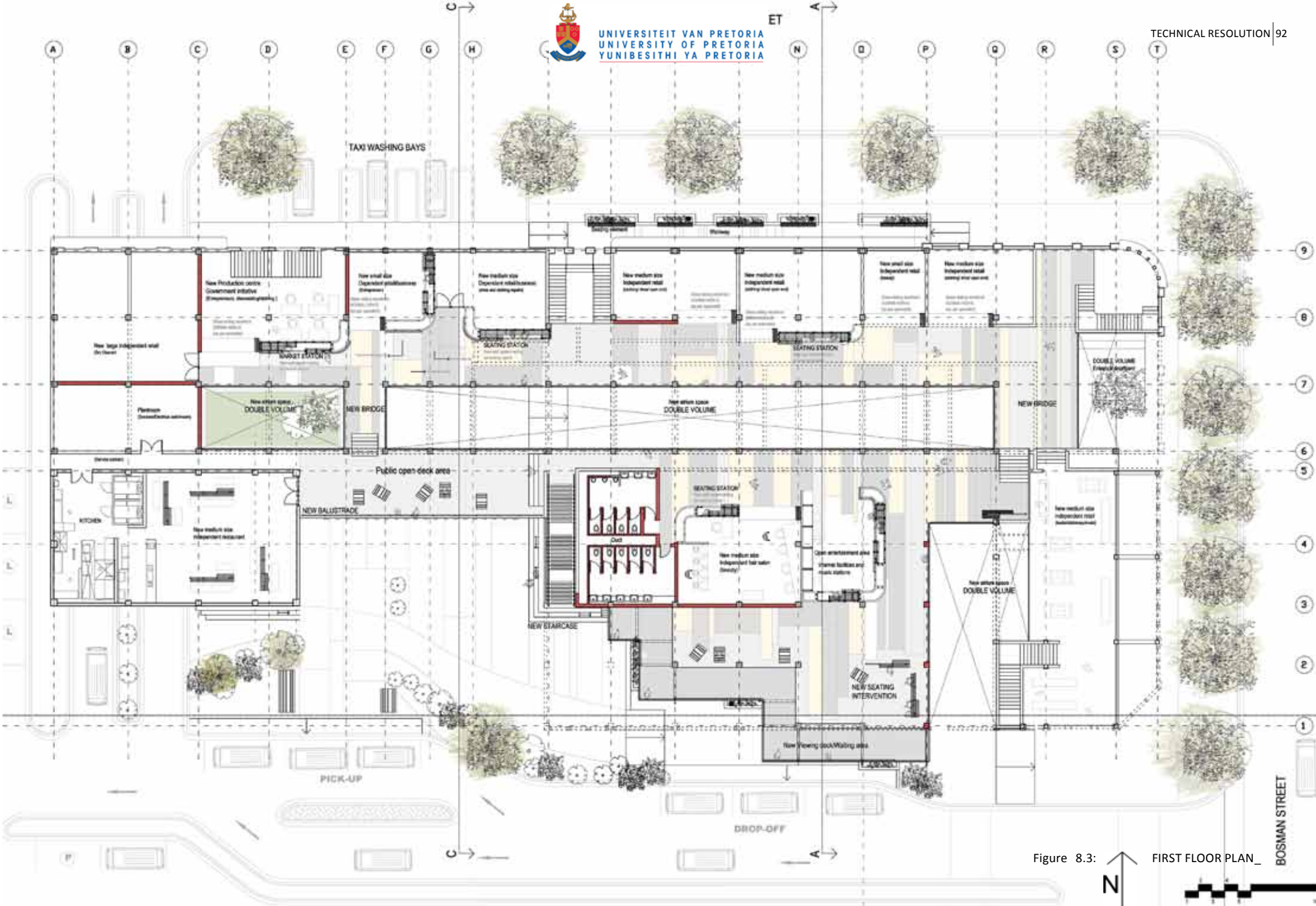
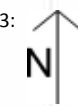


Figure 8.3: FIRST FLOOR PLAN



BOSMAN STREET

## 8.2 DOCUMENTATION

### 8.2.1 SECTION AA



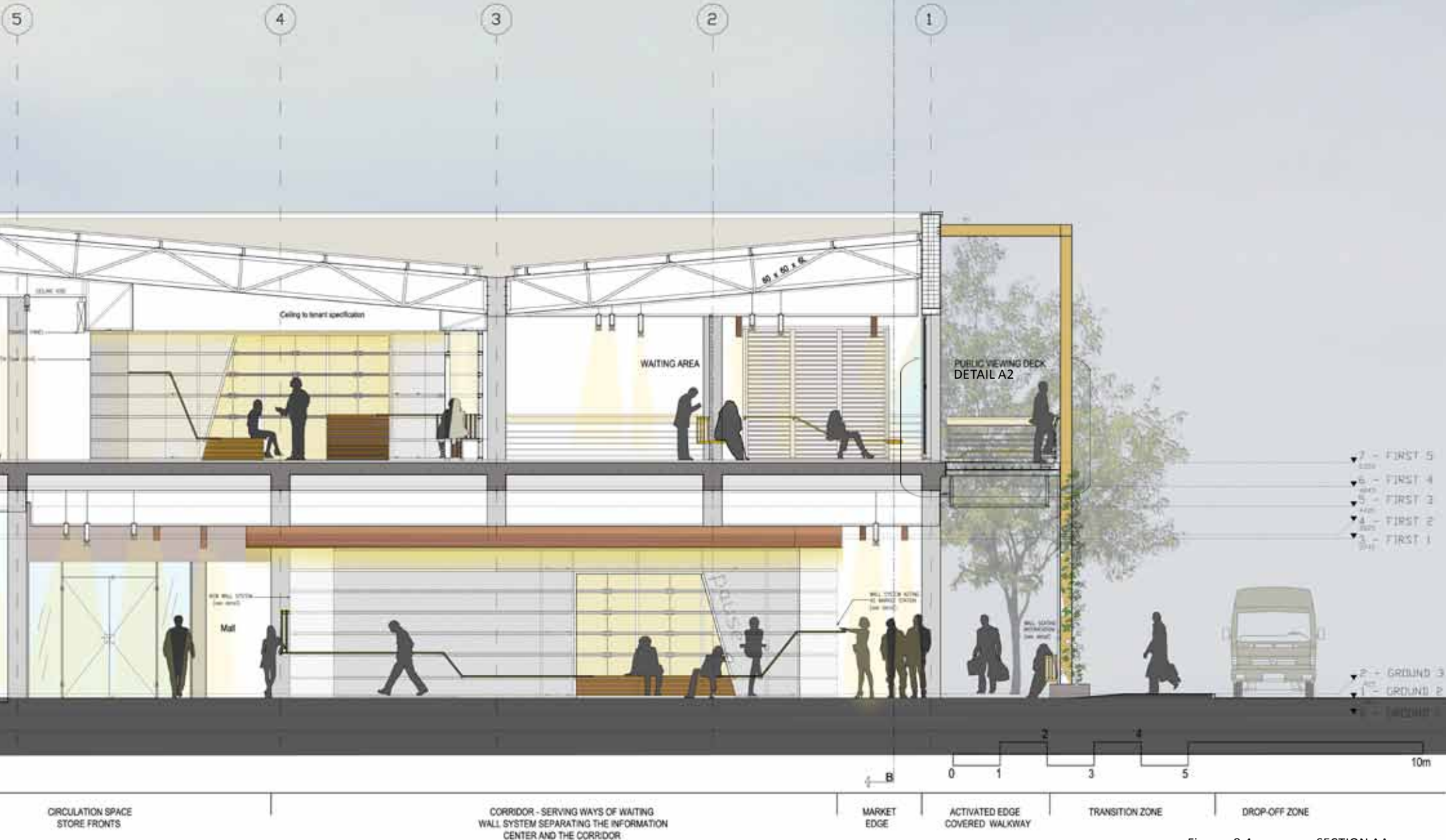


Figure 8.4: SECTION AA\_



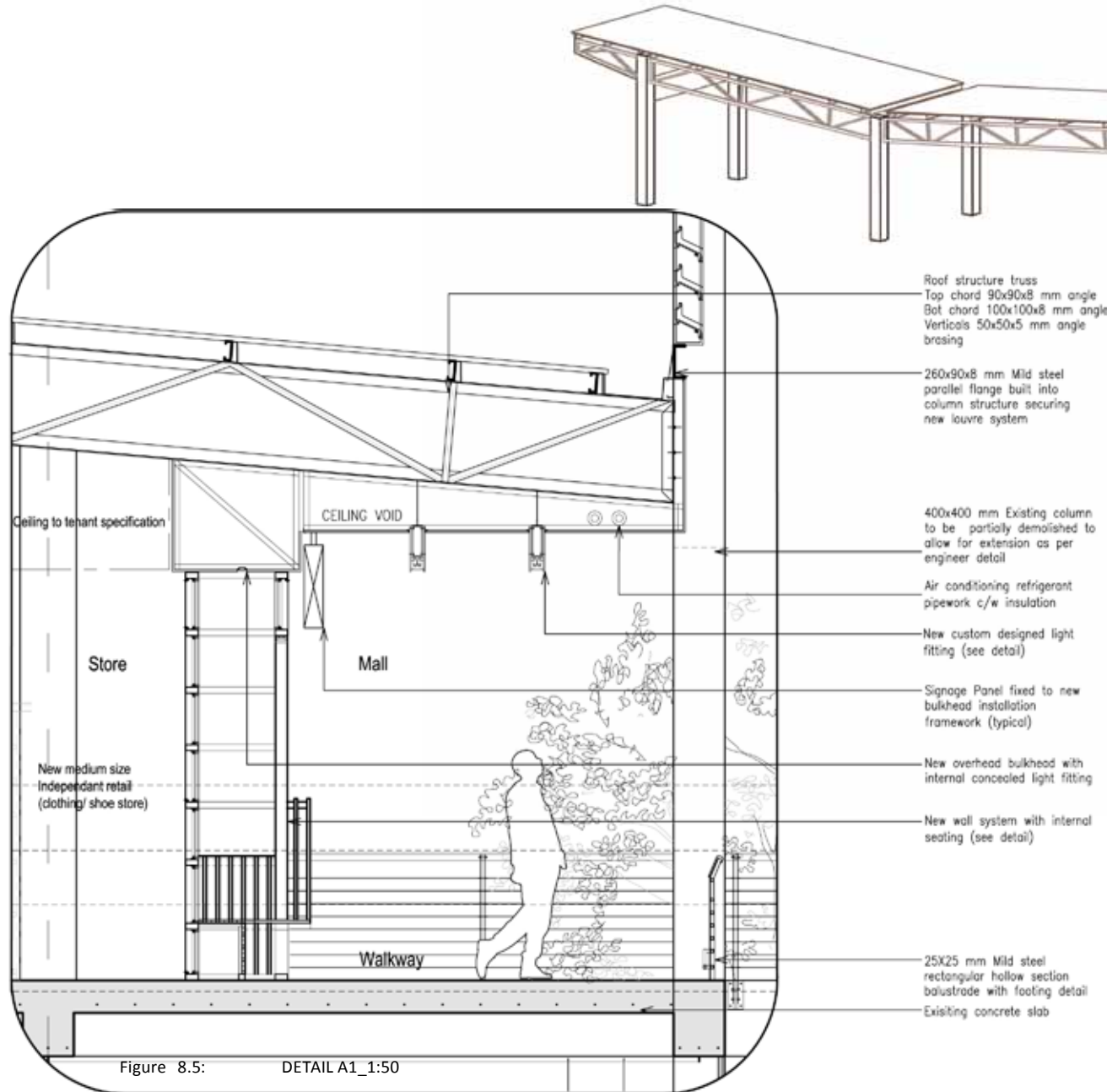


Figure 8.5: DETAIL A1\_1:50

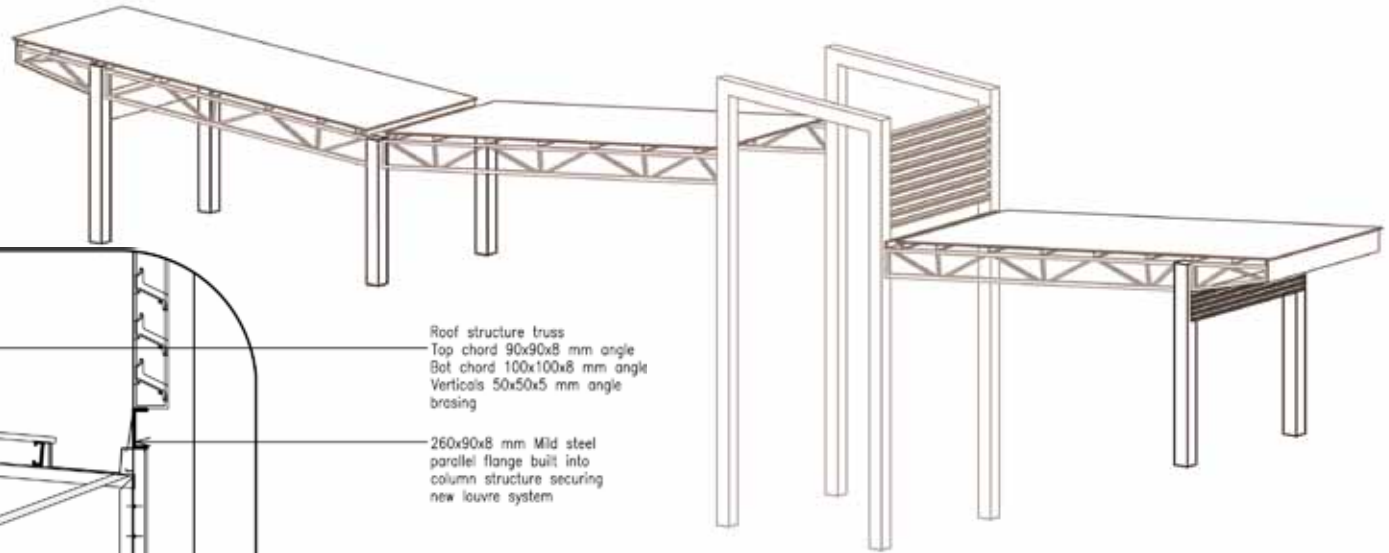


Figure 8.6: General roof structure



Figure 8.7: Key roof design sketch

- 400x400 mm Existing column to be partially demolished to allow for extension as per engineer detail
- Air conditioning refrigerant pipework c/w insulation
- New custom designed light fitting (see detail)
- Signage Panel fixed to new bulkhead installation framework (typical)
- New overhead bulkhead with internal concealed light fitting
- New wall system with internal seating (see detail)
- 25x25 mm Mild steel rectangular hollow section balustrade with footing detail

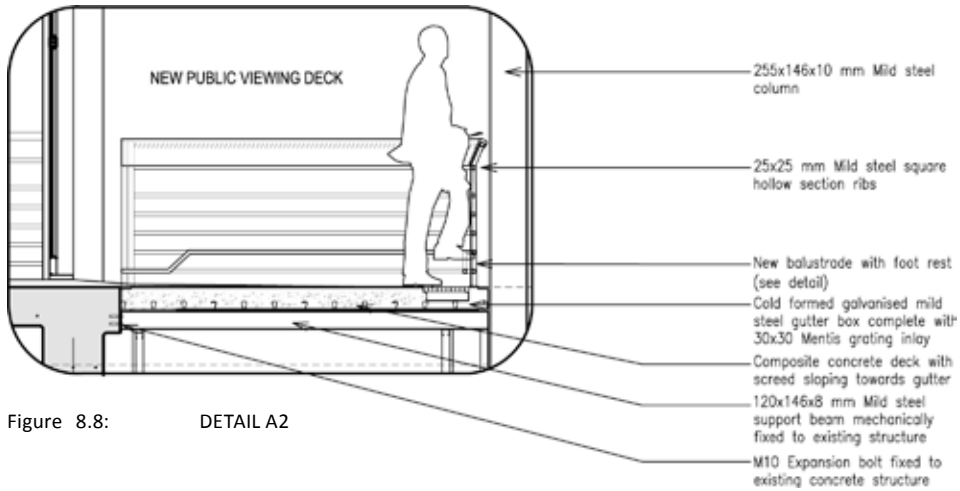


Figure 8.8: DETAIL A2

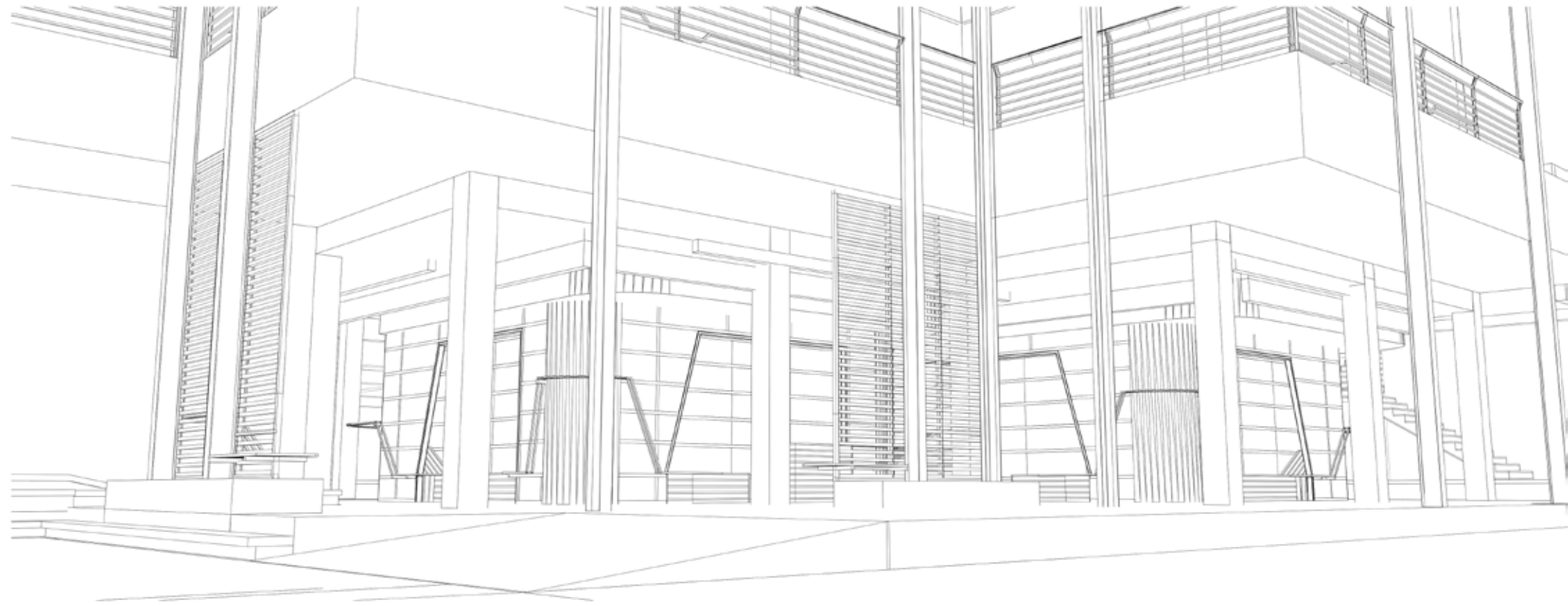






Figure 8.9: Building view 1

8.2.2 STAIRCASE

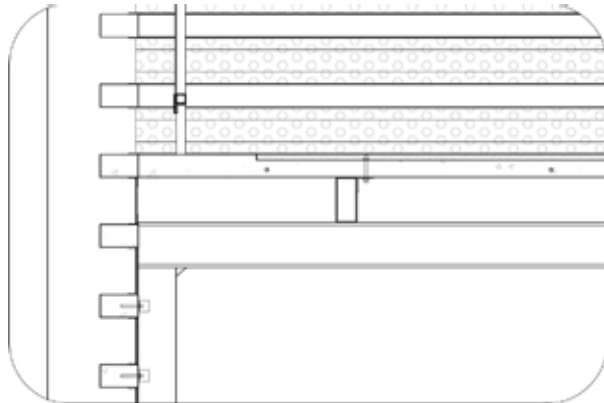


Figure 8.10: Staircase detail s2

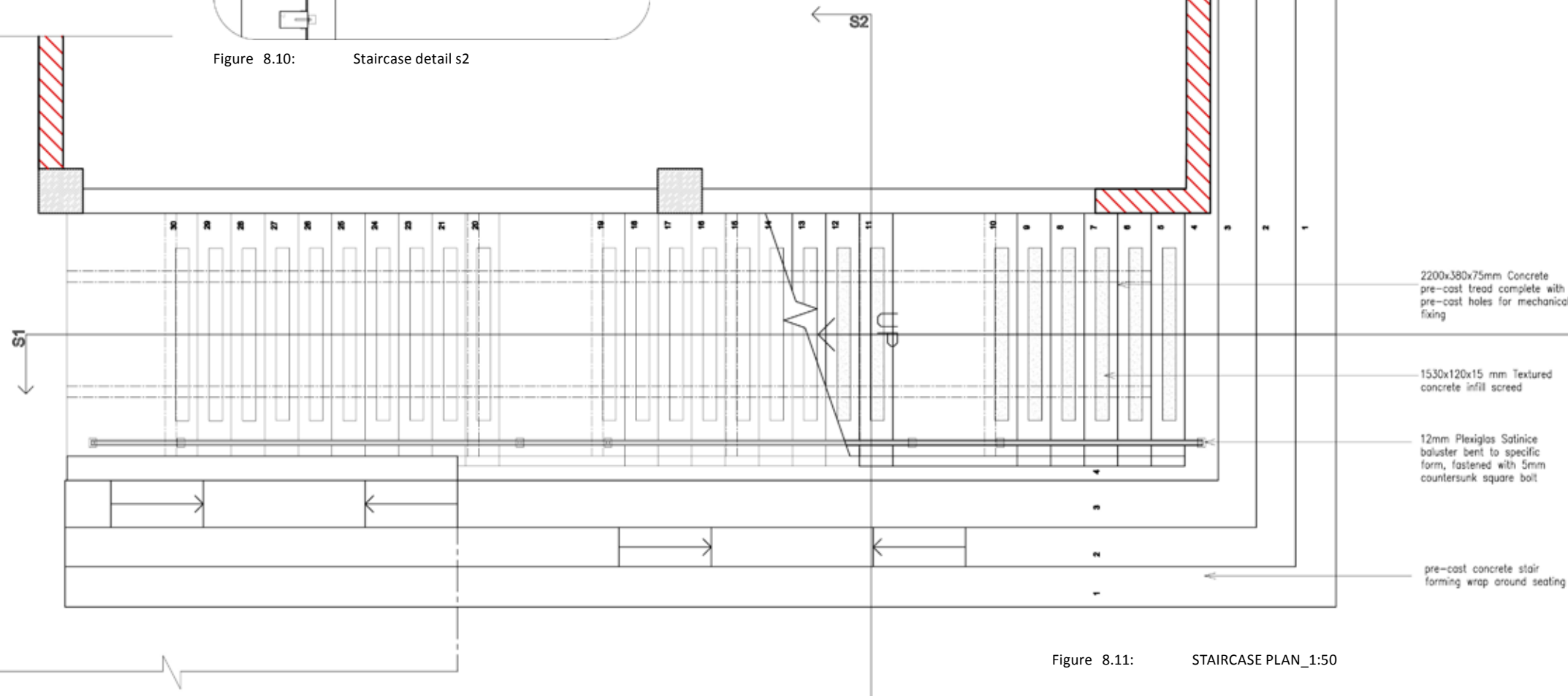


Figure 8.11: STAIRCASE PLAN\_1:50

2200x380x75mm Concrete pre-cast tread complete with pre-cast holes for mechanical fixing

1530x120x15 mm Textured concrete infill screed

12mm Plexiglas Satinice baluster bent to specific form, fastened with 5mm countersunk square bolt

pre-cast concrete stair forming wrap around seating

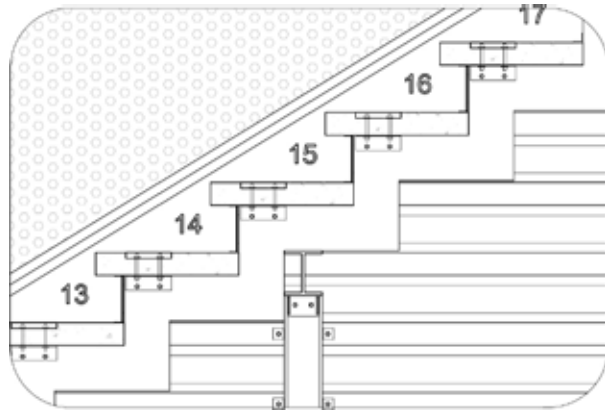
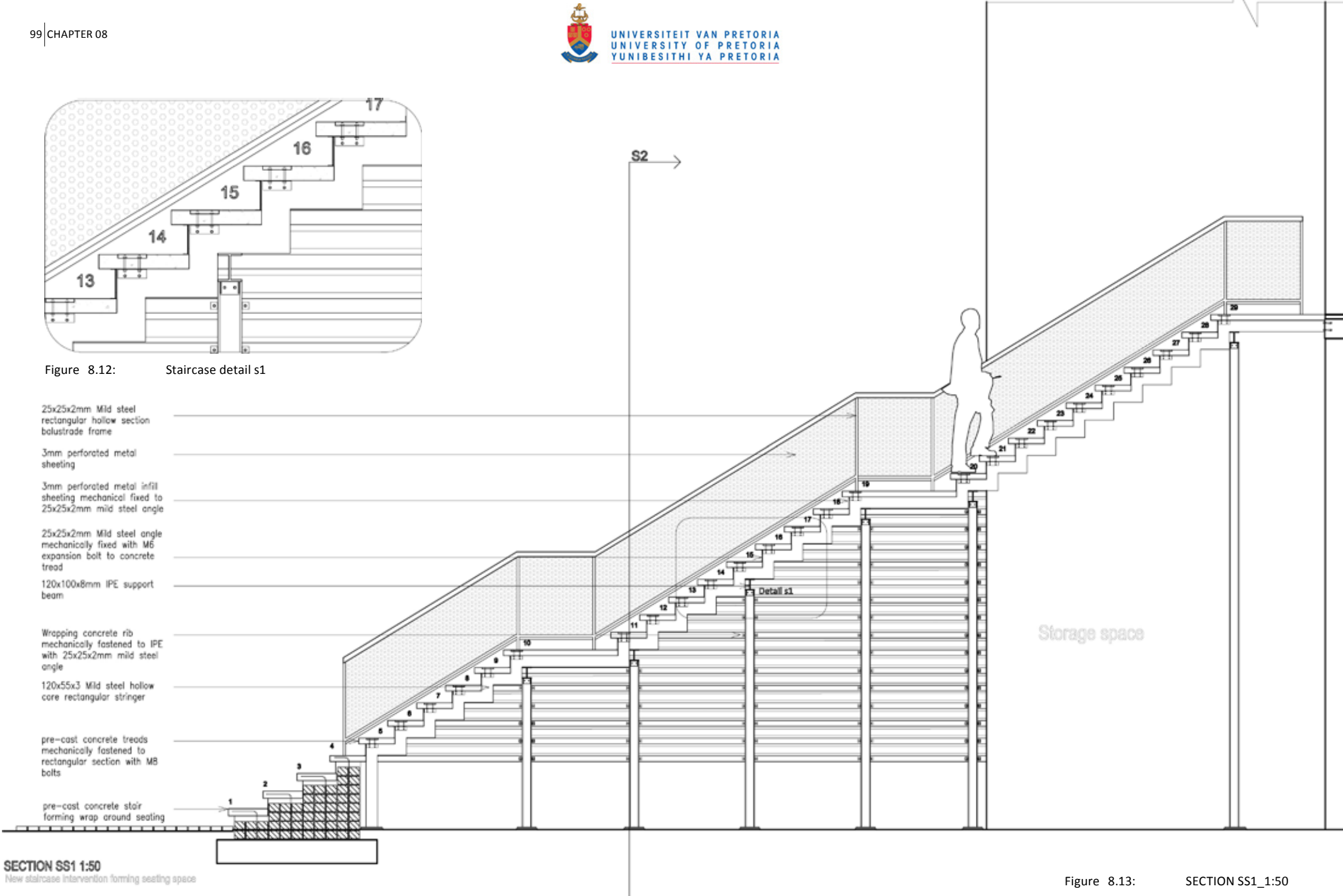


Figure 8.12: Staircase detail s1

- 25x25x2mm Mild steel rectangular hollow section balustrade frame
- 3mm perforated metal sheeting
- 3mm perforated metal infill sheeting mechanical fixed to 25x25x2mm mild steel angle
- 25x25x2mm Mild steel angle mechanically fixed with M6 expansion bolt to concrete tread
- 120x100x8mm IPE support beam
- Wrapping concrete rib mechanically fastened to IPE with 25x25x2mm mild steel angle
- 120x55x3 Mild steel hollow core rectangular stringer
- pre-cast concrete treads mechanically fastened to rectangular section with M8 bolts
- pre-cast concrete stair forming wrap around seating



SECTION SS1 1:50  
New staircase intervention forming seating space

Figure 8.13: SECTION SS1\_1:50



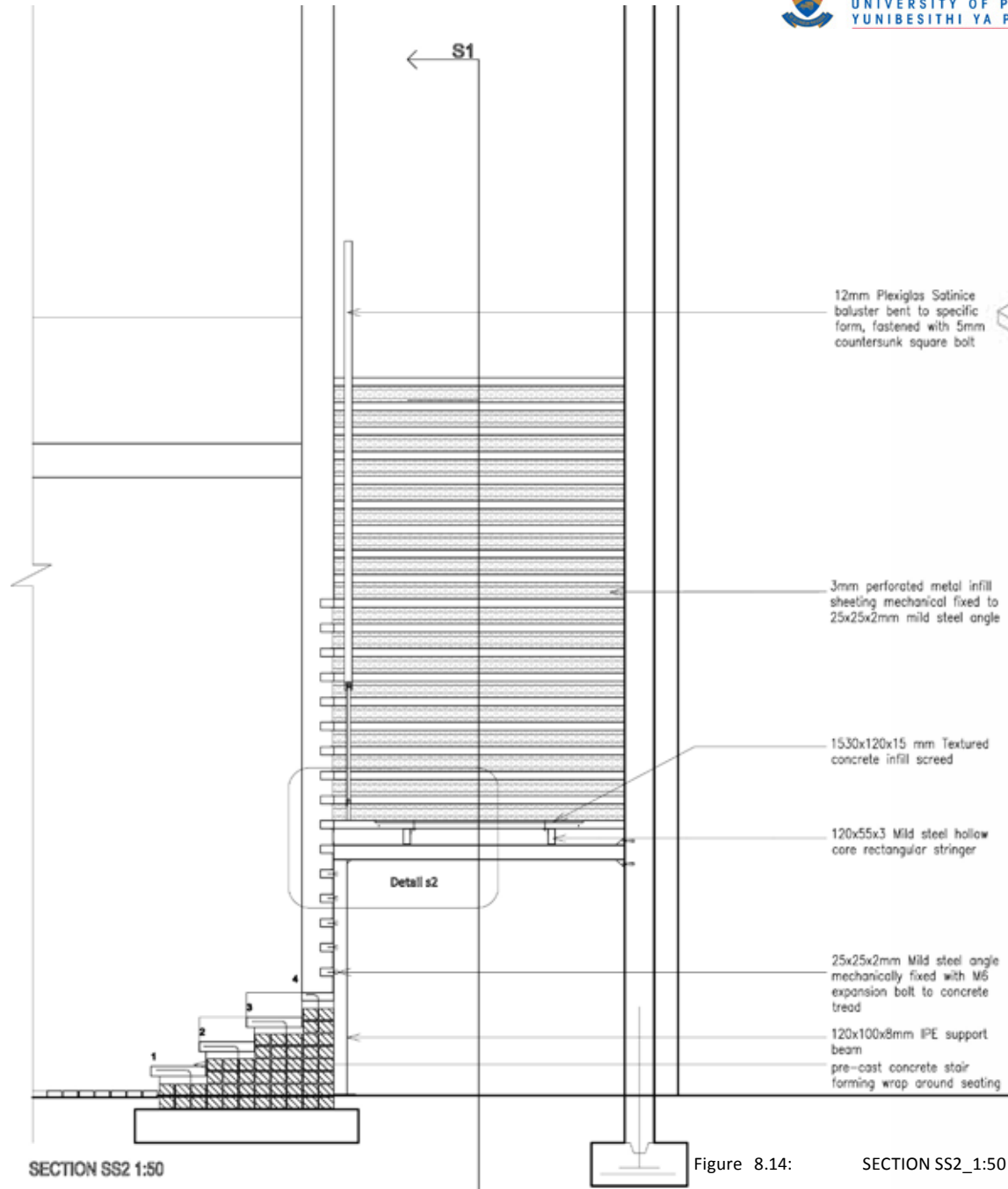


Figure 8.14: SECTION SS2\_1:50

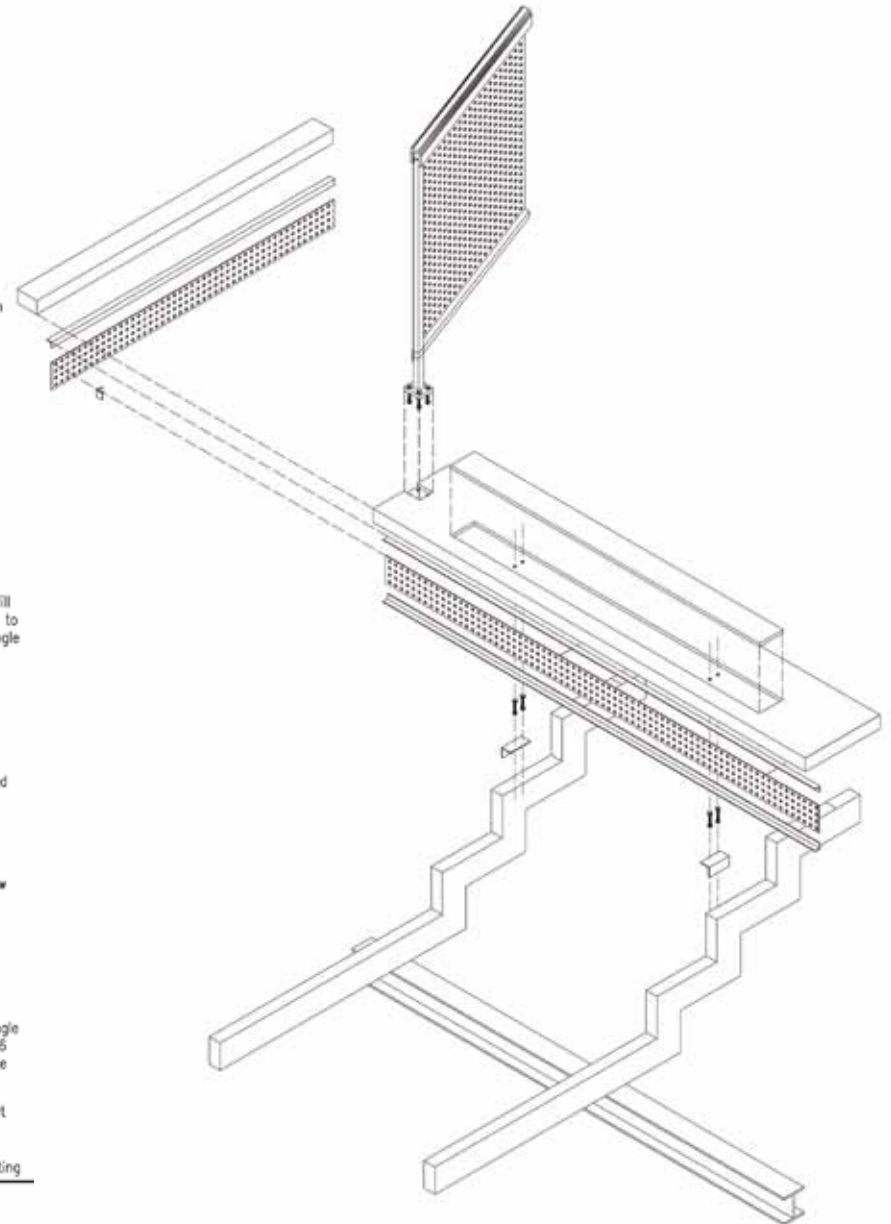


Figure 8.15: Exploded stair tread

8.2.3 SECTION CC





Figure 8.16: SECTION CC\_



### 8.2.4 WALL SYSTEM

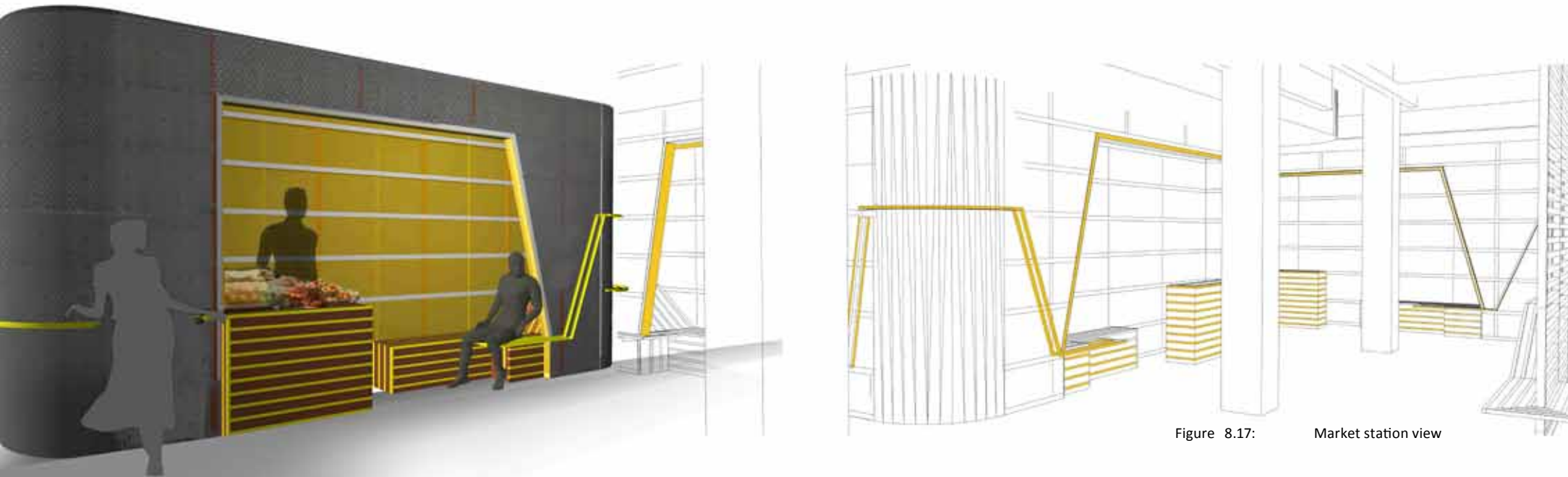


Figure 8.17: Market station view



Figure 8.18: Active edge render 1

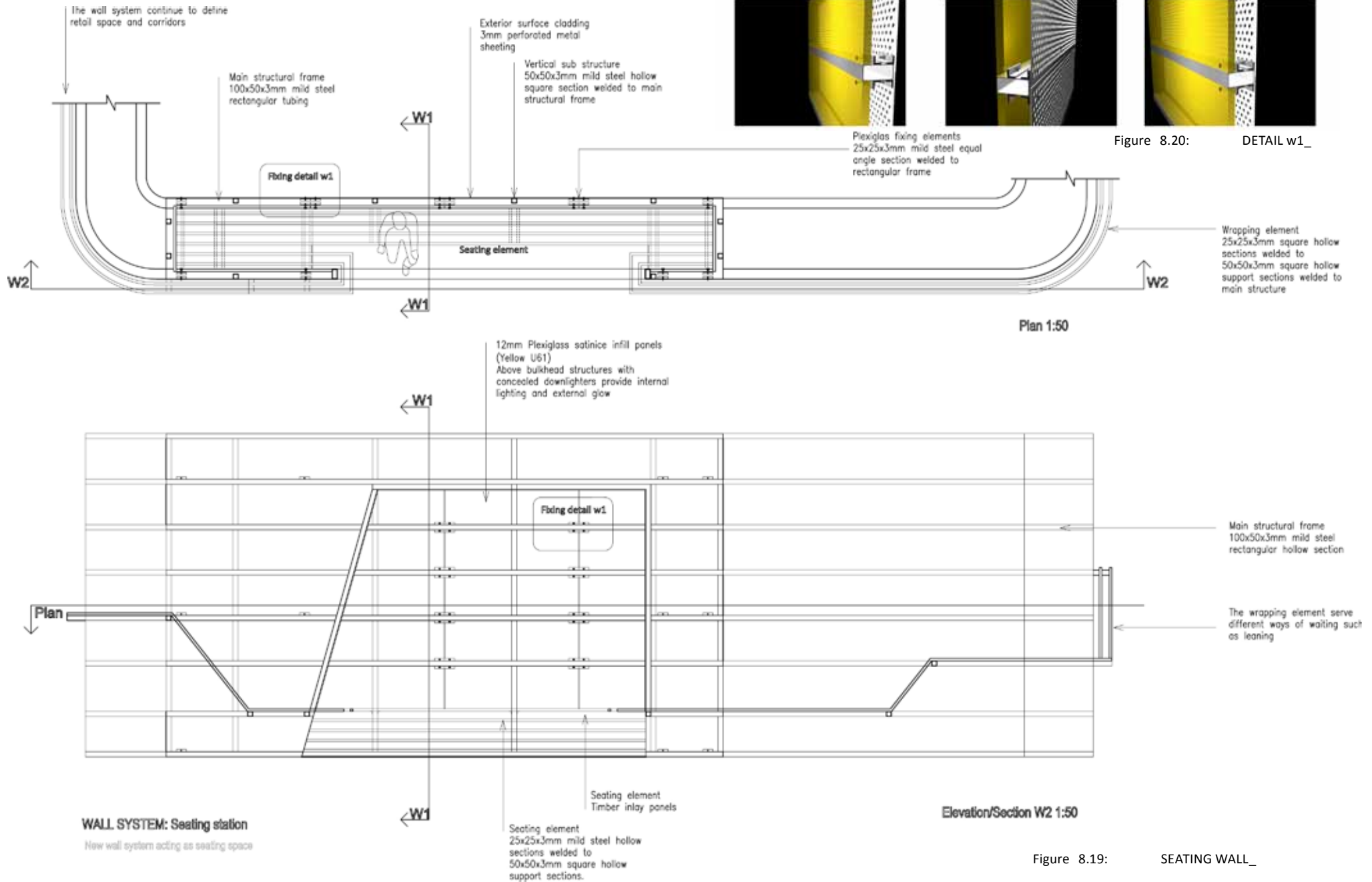


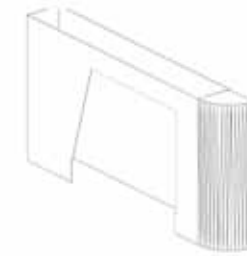
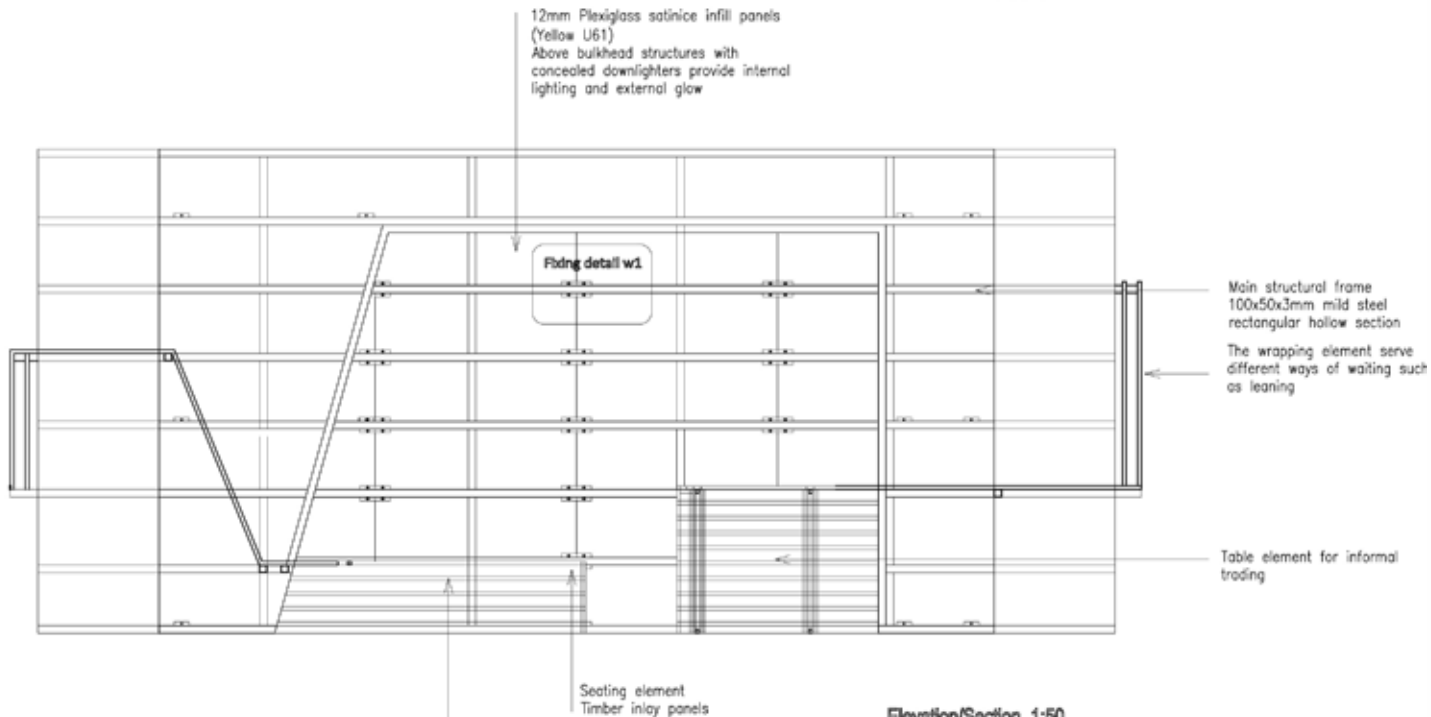
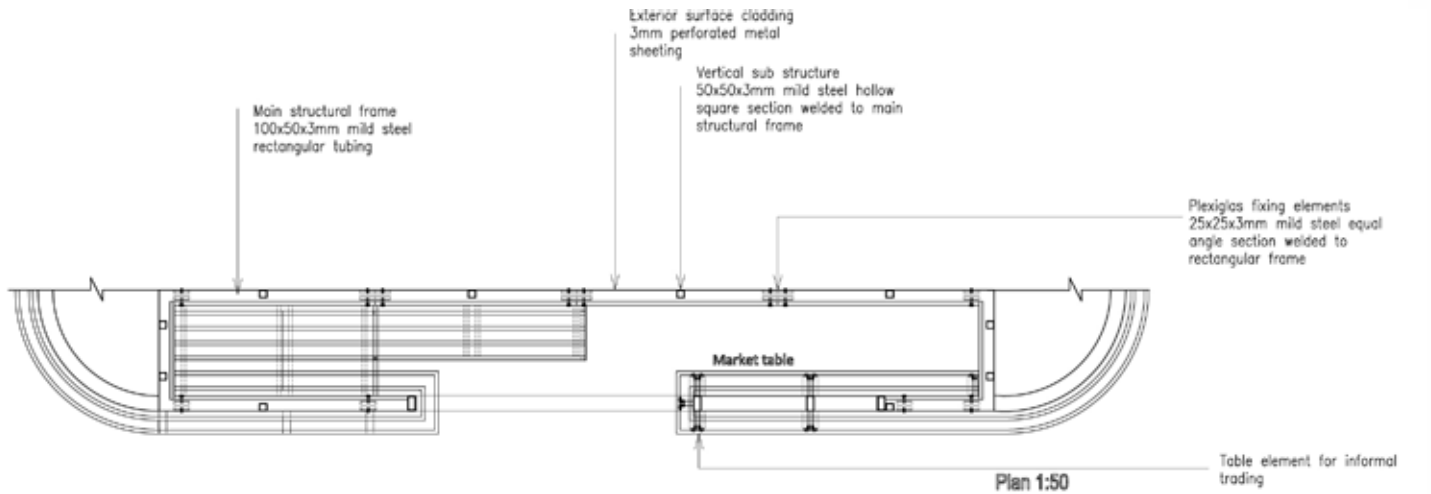
Figure 8.20: DETAIL w1\_

Plan 1:50

Elevation/Section W2 1:50

Figure 8.19: SEATING WALL\_





Perforated sheet metal cladding system



Main structural frame



Sub structure



Internal plexiglas infill panels



Frame opening



Seating and wrapping element

**WALL SYSTEM : Market station**

New wall system acting as a market space

Figure 8.21:

MARKET WALL\_

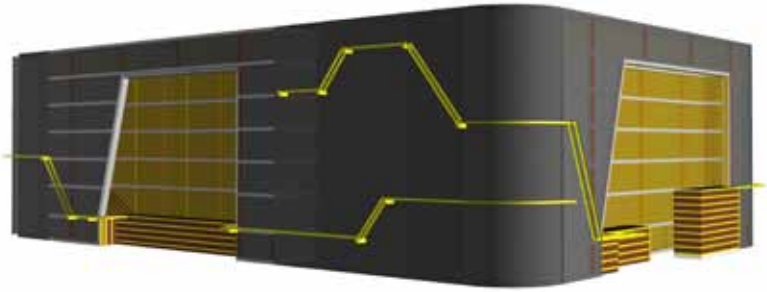


Figure 8.22: Seating and market station render

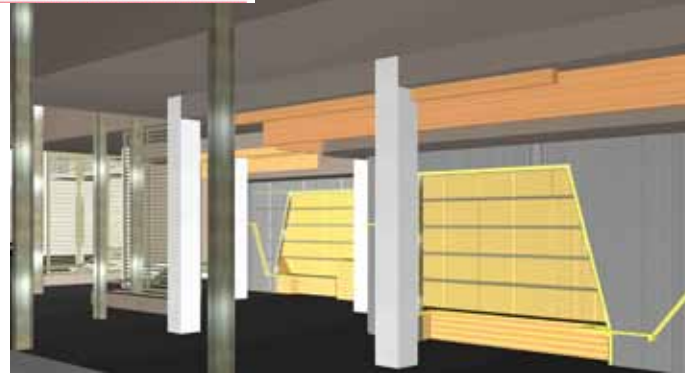
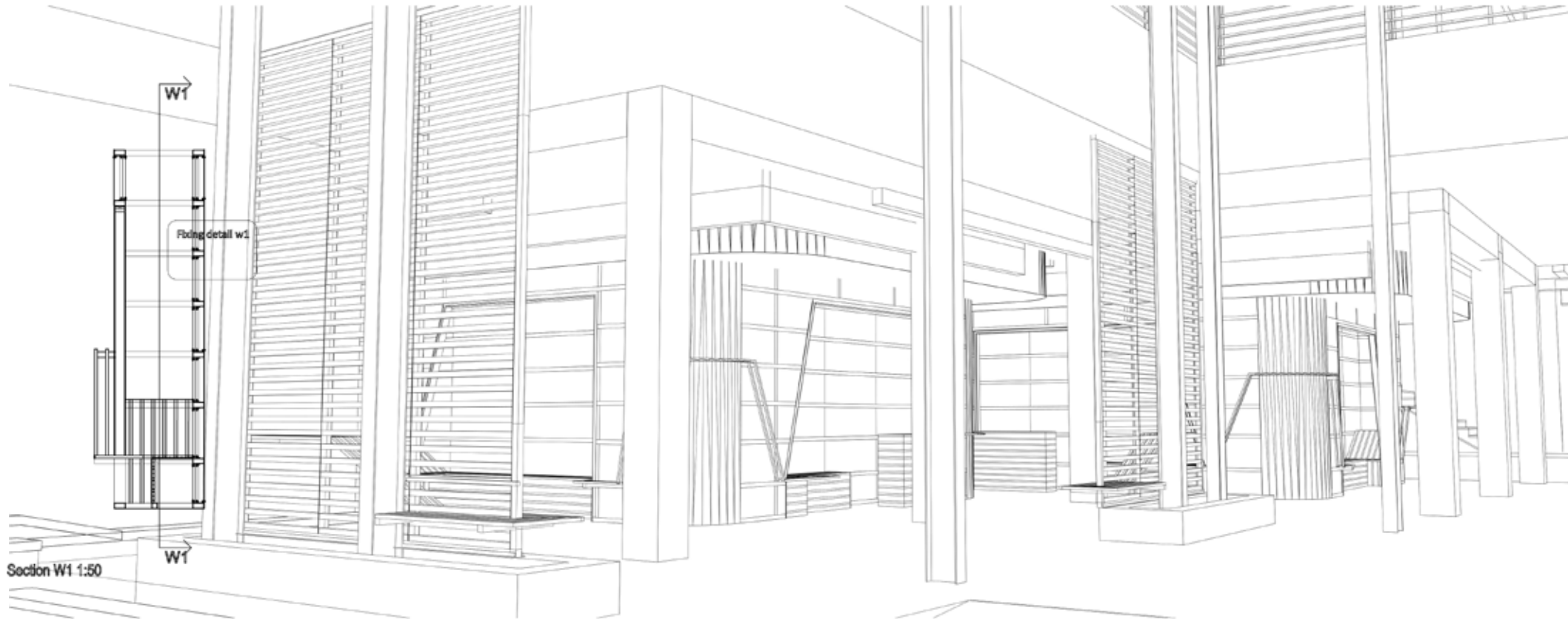


Figure 8.23: Seating view



Figure 8.24: Seating element



Section W1 1:50



Figure 8.25: Active edge render 2

8.2.5 SECTION BB



8.2.6 BALUSTRADE

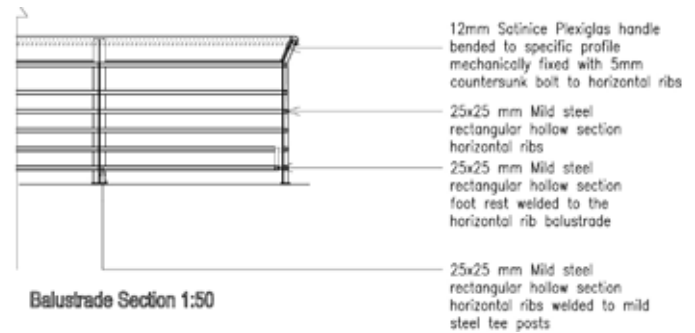
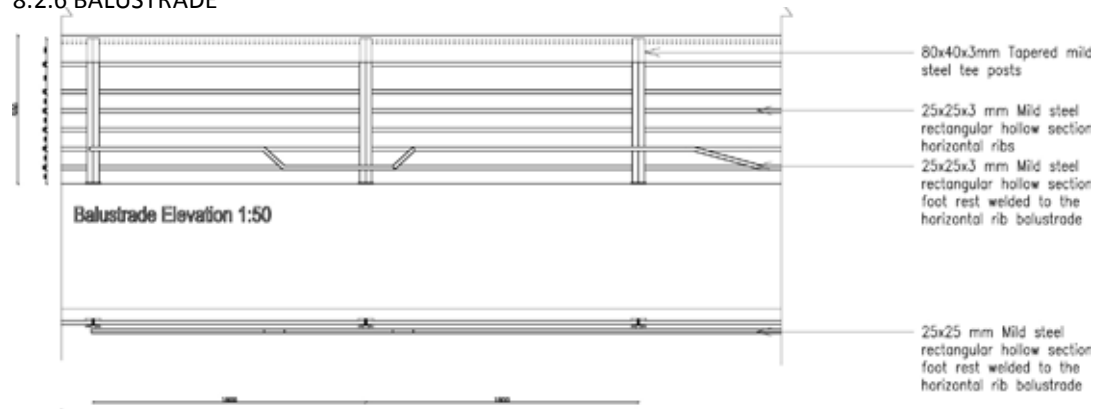


Figure 8.26: BALUSTRADE DETAILS\_





Figure 8.27: SECTION BB\_

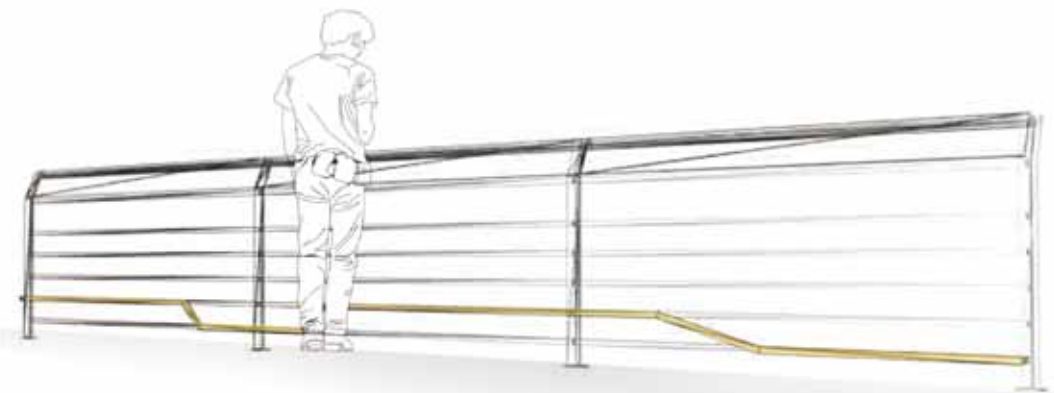


Figure 8.28: Balustrade view