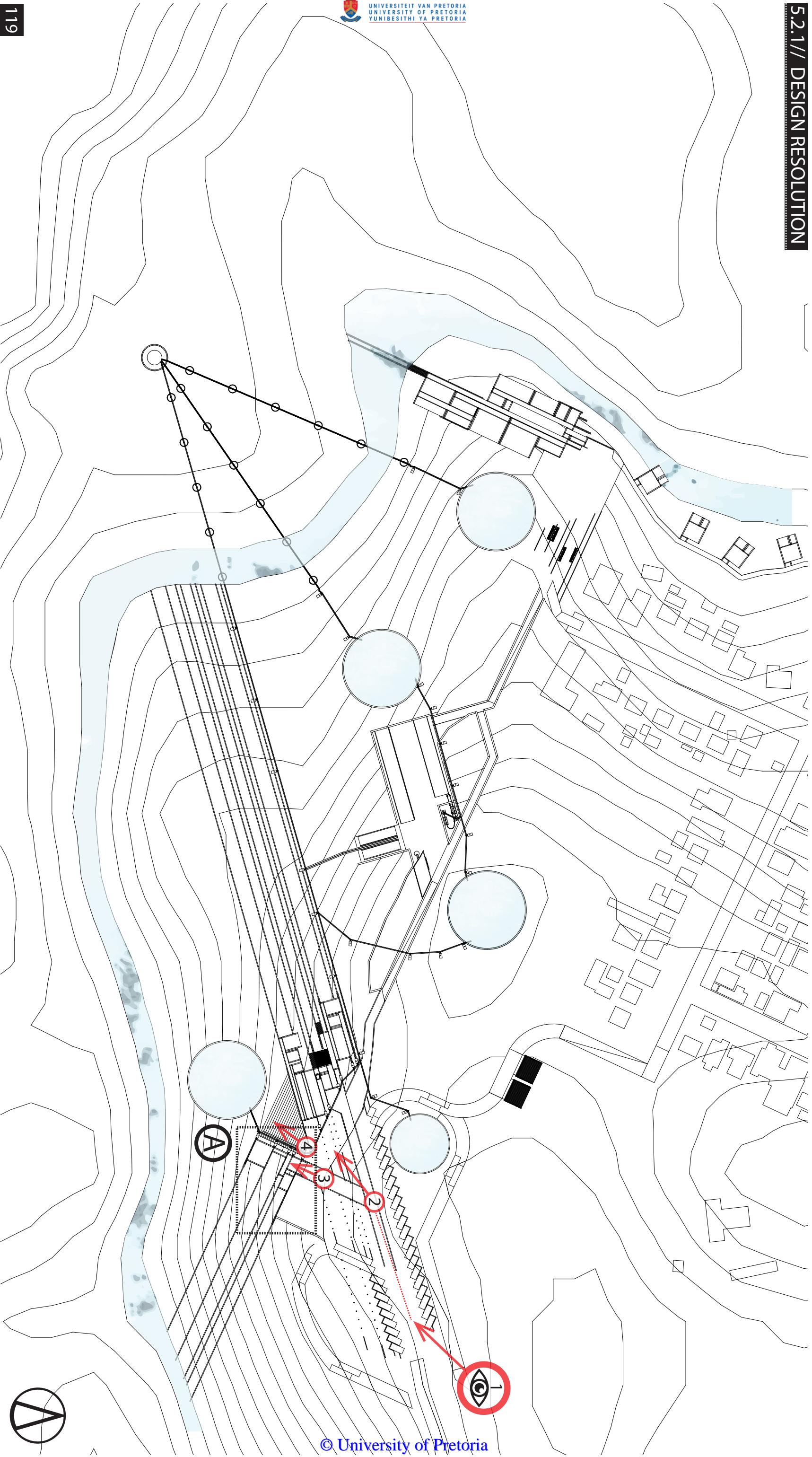
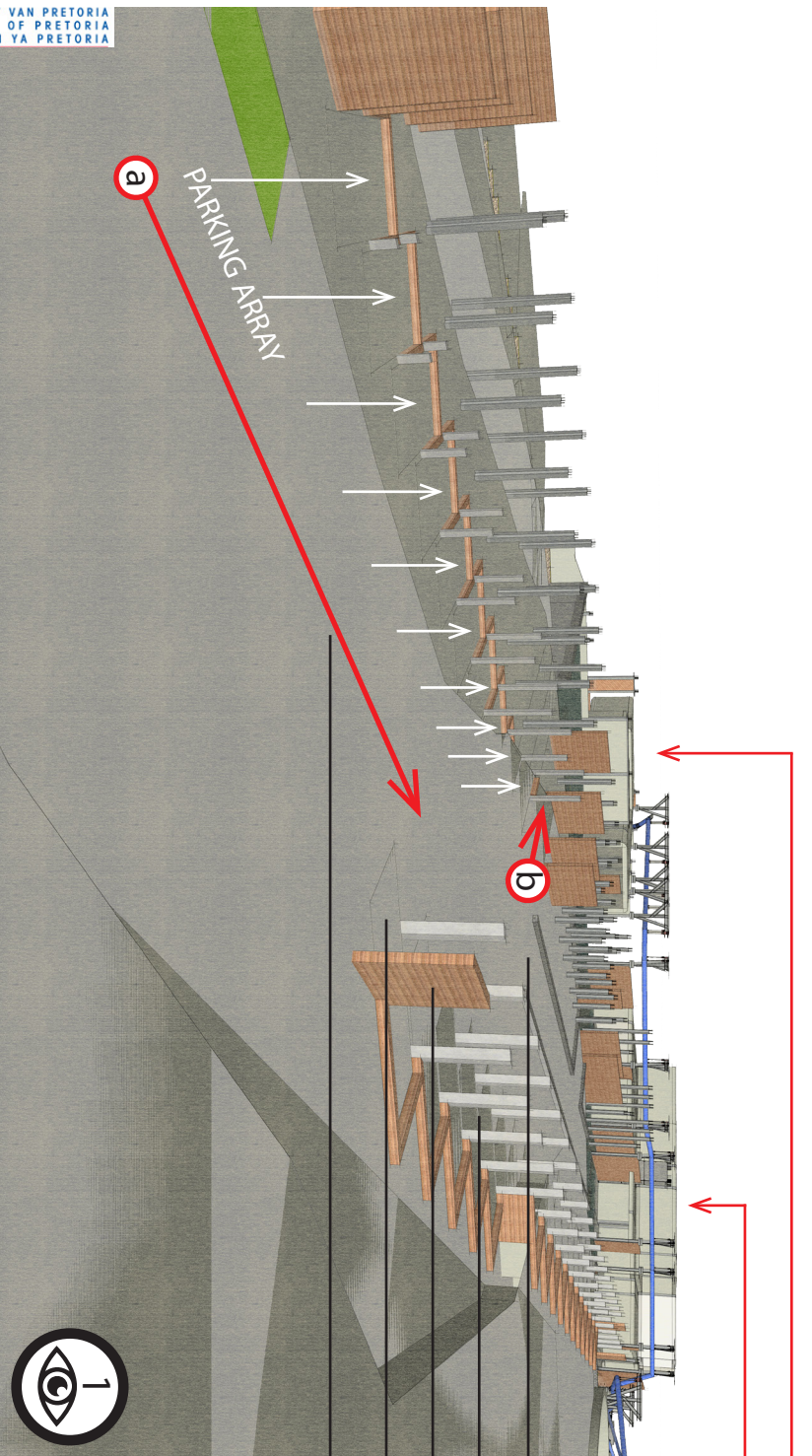




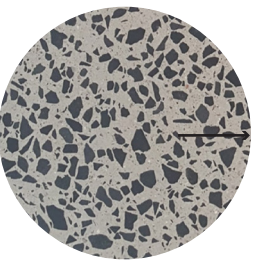
5.2// DESIGN AND TECHNIFICATION





SITE ENTRANCE PERSPECTIVE

- 1 Reinforced Cast-in-situ Concrete - Kimberlite aggregate
 - 2 Rammed earth walls - Dark colouring from kimberlite rich soils
 - 3 Core Landscape gravel retaining system - Filled with crushed black kimberlite rock
 - 4 Natural landscape surface
- a Site Vehicular Entrance
b Southern Vehicular Exit



1



2

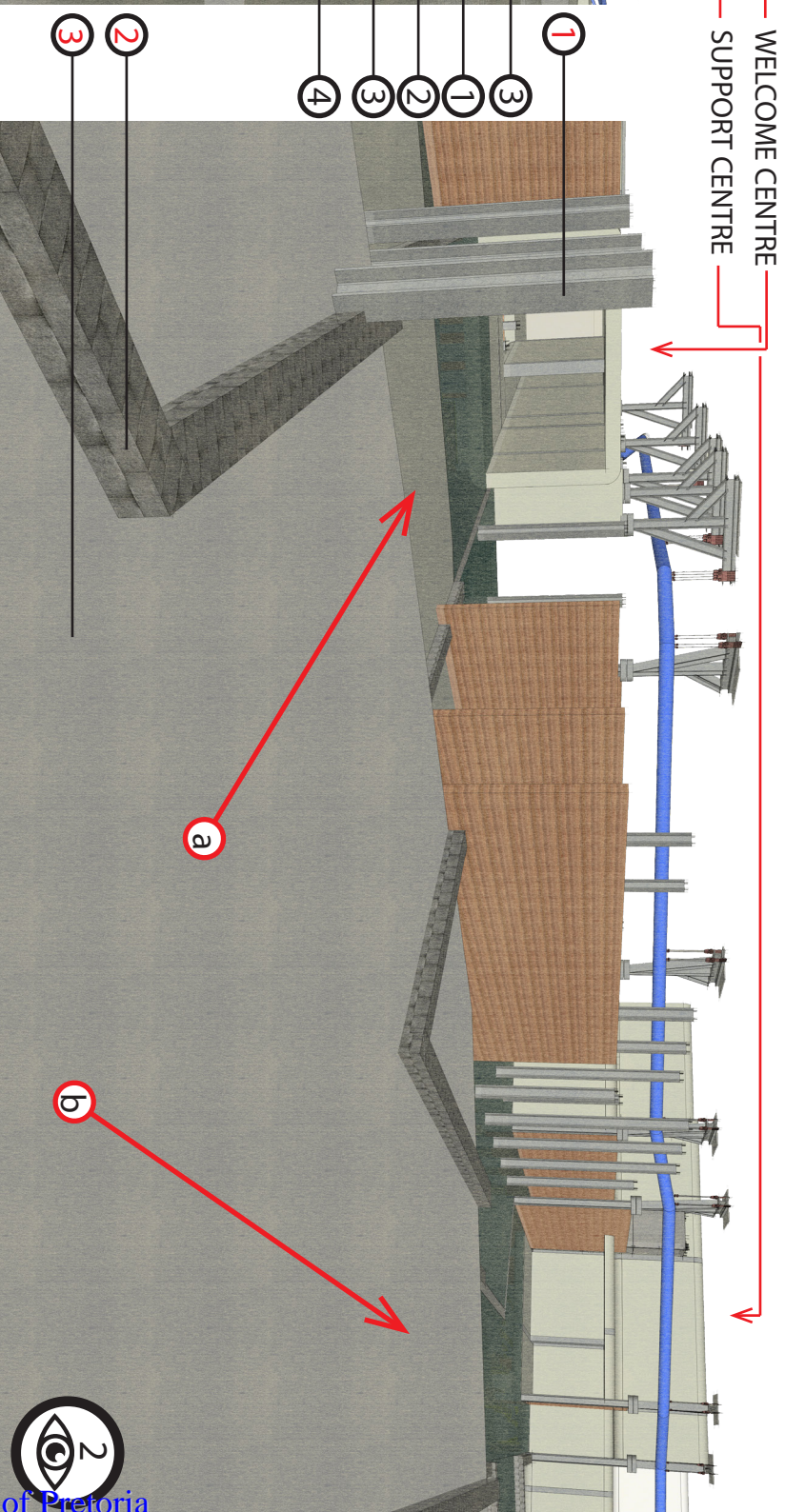


3



4

WELCOME CENTRE
SUPPORT CENTRE



PEDESTRIAN ACCESS TO STRUCTURES

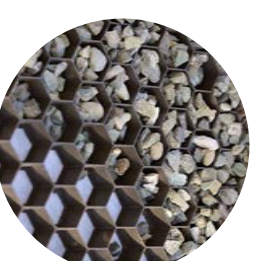
- 1 254x254mm Universal Steel Column Offcuts from Structural systems
 - 2 Custom steel gabion systems - Kimberlite filled
 - 3 Core Landscape gravel retaining system - Filled with crushed black kimberlite rock
 - 4 Natural landscape surface
- a Pedestrian Access to Welcome Centre
b Pedestrian Access to Support Structure and Extended site.



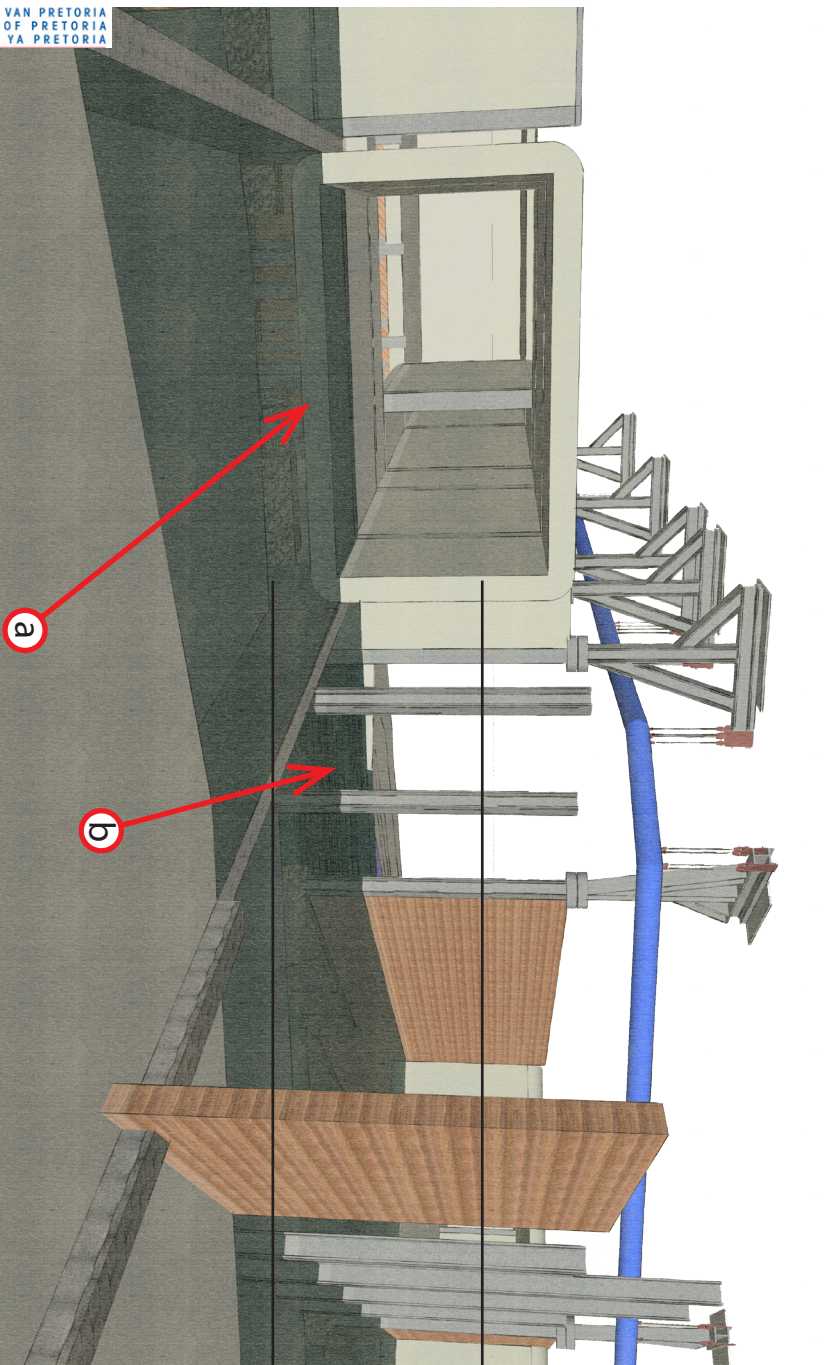
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WELCOME CENTRE ENTRANCE

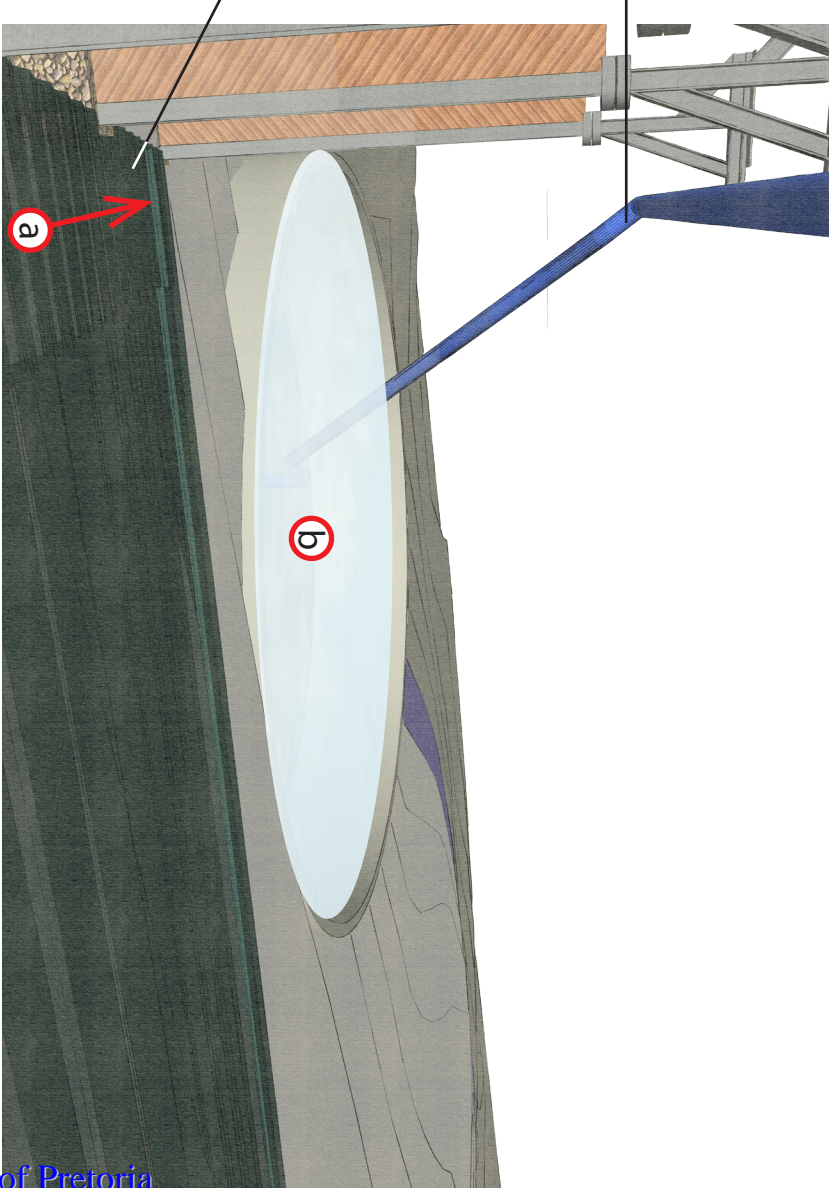
200mm Polythylene hdpe - Water reticulation pipe

Plywood Architectural Structure

Galvanized steel Vitagrid plain grating system - 30x50mm grid spacing
(Prevent High heel penetration)

a Welcome Centre Entrance

b Access to Amphitheatre



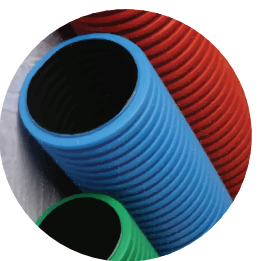
AMPHITHEATRE ENTRANCE

200mm Polythylene hdpe - Water reticulation pipe

Galvanized steel Vitagrid plain grating system - 30x50mm grid spacing
(Prevent High heel penetration)

a Amphitheatre Stairs

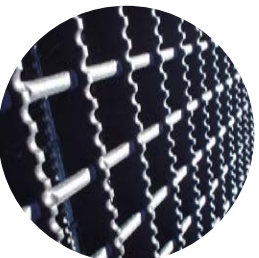
b Electrolysis Rehabilitation Testing Dam



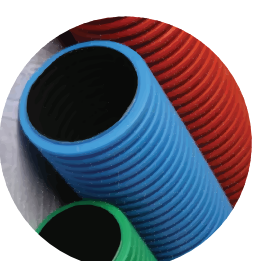
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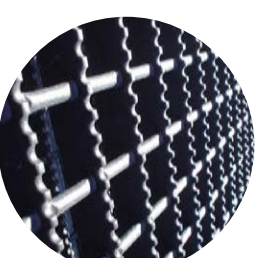
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1



3



MAY STRUCTURAL DEVELOPMENT MODEL



WELCOME CENTRE ENTRANCE



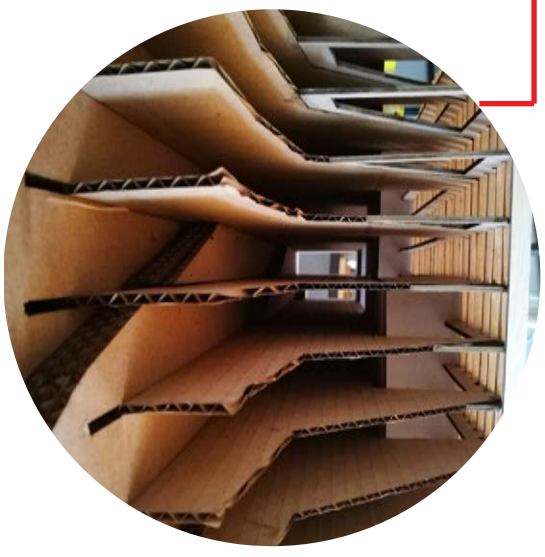
EARLY ROOF STRUCTURE SYSTEM
INTEGRATED INTO RAMMED EARTH WALLS



EARLY STRUCTURAL STEEL SUPPORT SYSTEM
MOUNTED ON TOP OF RAMMED EARTH WALLS



BIOREMEDIATION CHANNELS
EARLY DESIGN UTILIZING PURELY RAMMED
EARTH CONSTRUCTION



1 ACCESSIBILITY AND MOVEMENT
Vitragrid based external platforms for transparency of structural elements and light source for agriculture in channels below.

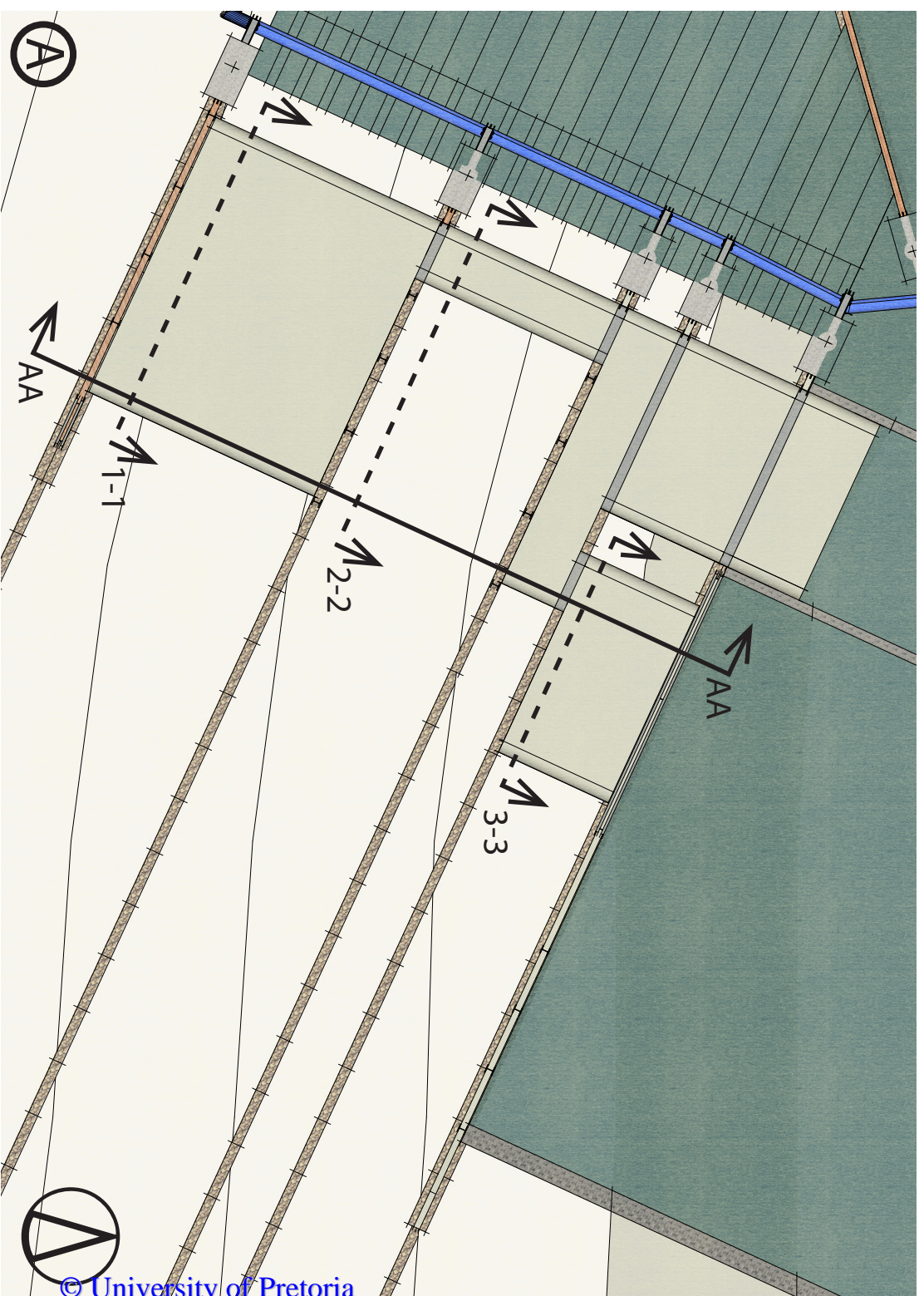
Staff access to remediation channels

2 TEMPORALITY AND ADAPTABILITY
Cnc cut plywood interlaced structures. Shrink-wrapped exterior for waterproofing.

3 STANDARDIZATION
Construction kit type structure. Cnc machined pieces can be constructed through the use of an assembly guide. Services support exterior of structure.

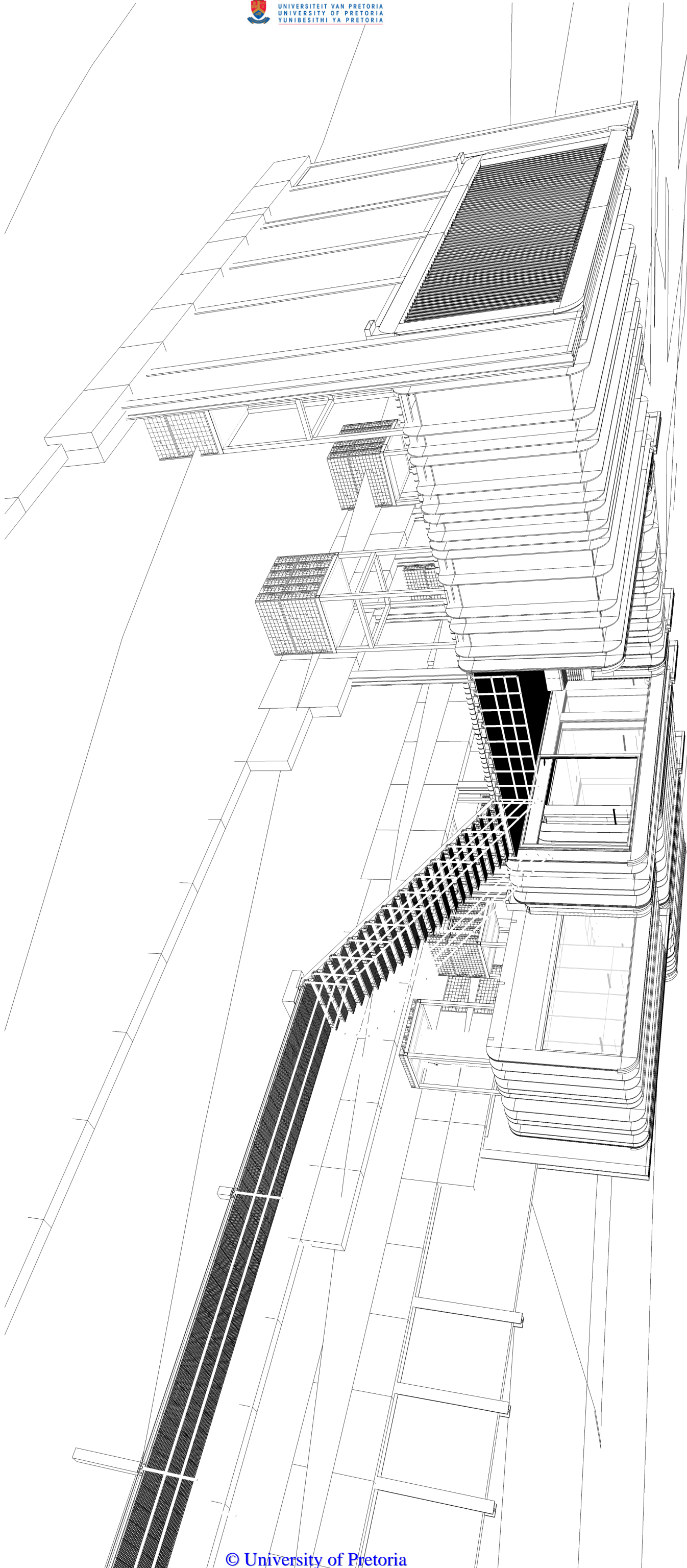
4 SUPPORTING FRAME-WORK
Structural Steel support systems for rammed earth ribs.

5 REMEDIATIVE TESTING RIBS
Rammed earth and Gabion wall testing channels. Water Filtration through phytoremediation, channelled through ribs in the Landscape.

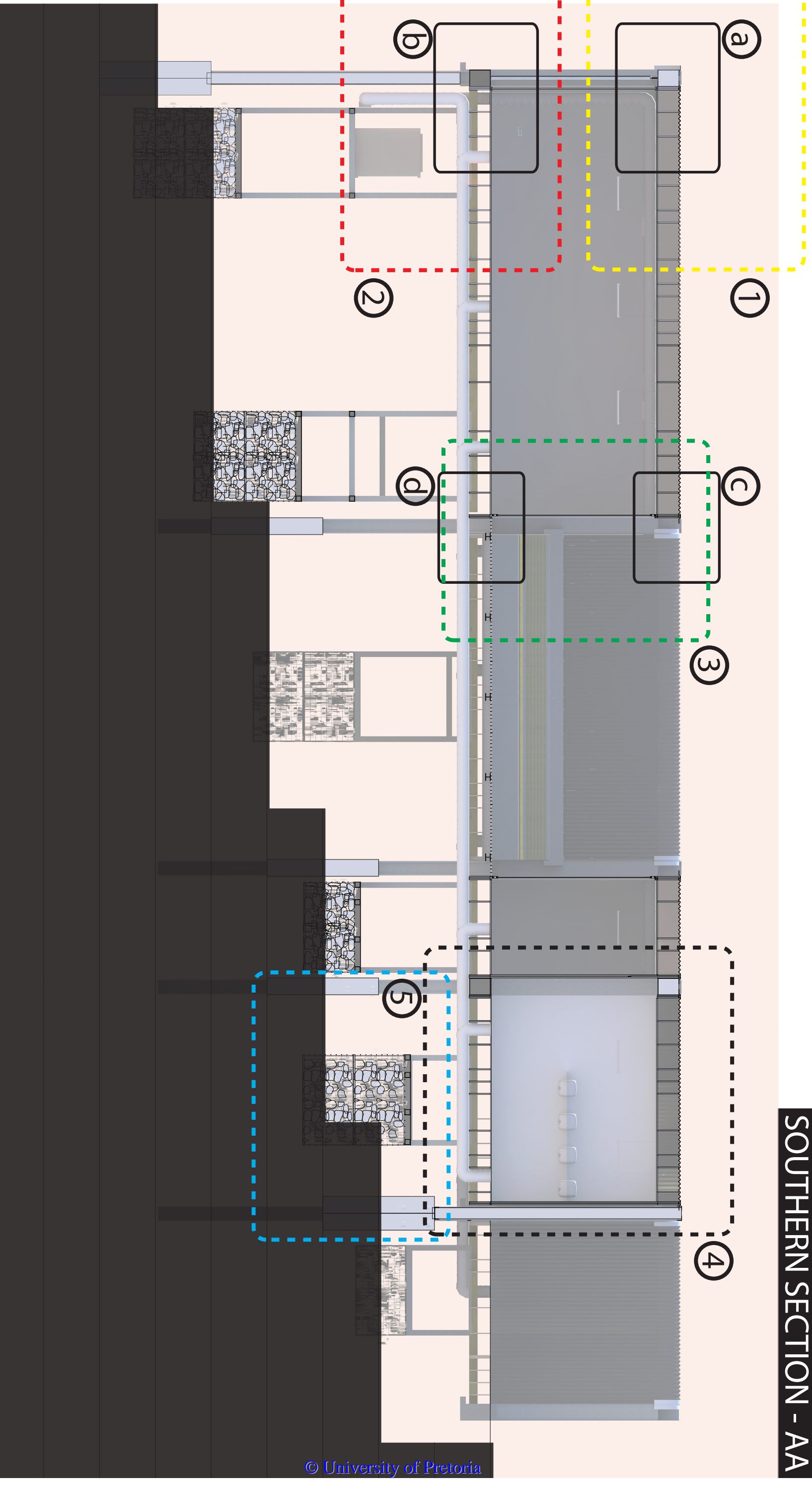


WELCOME CENTRE - TOP VIEW

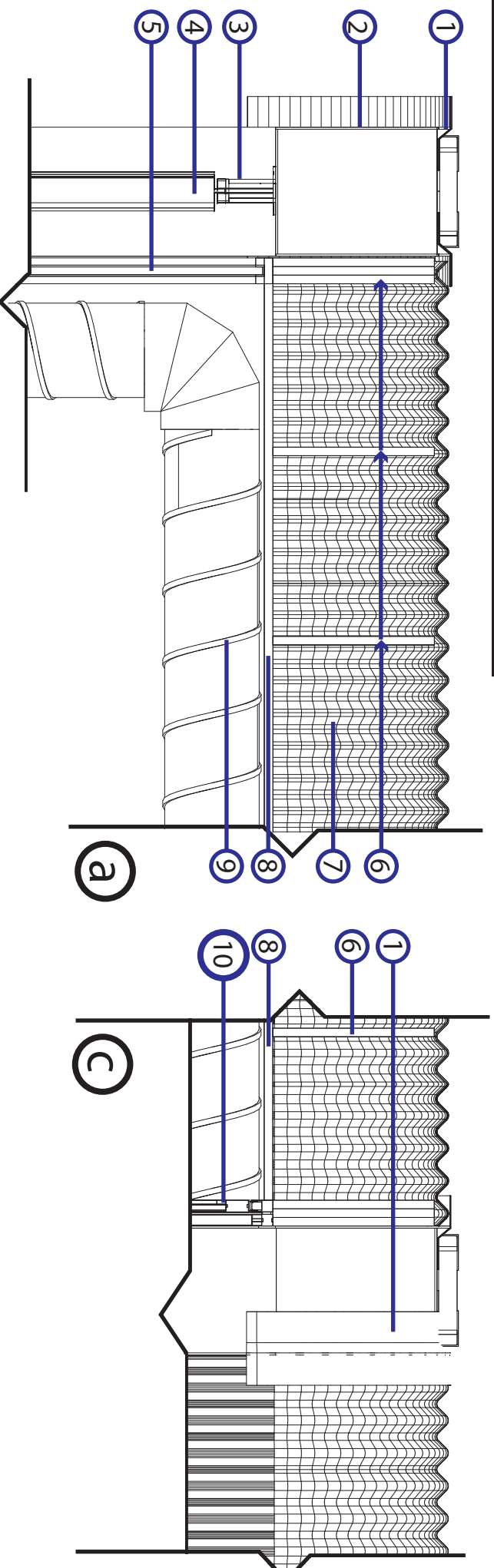
WELCOME CENTRE ISOMETRIC DRAWING



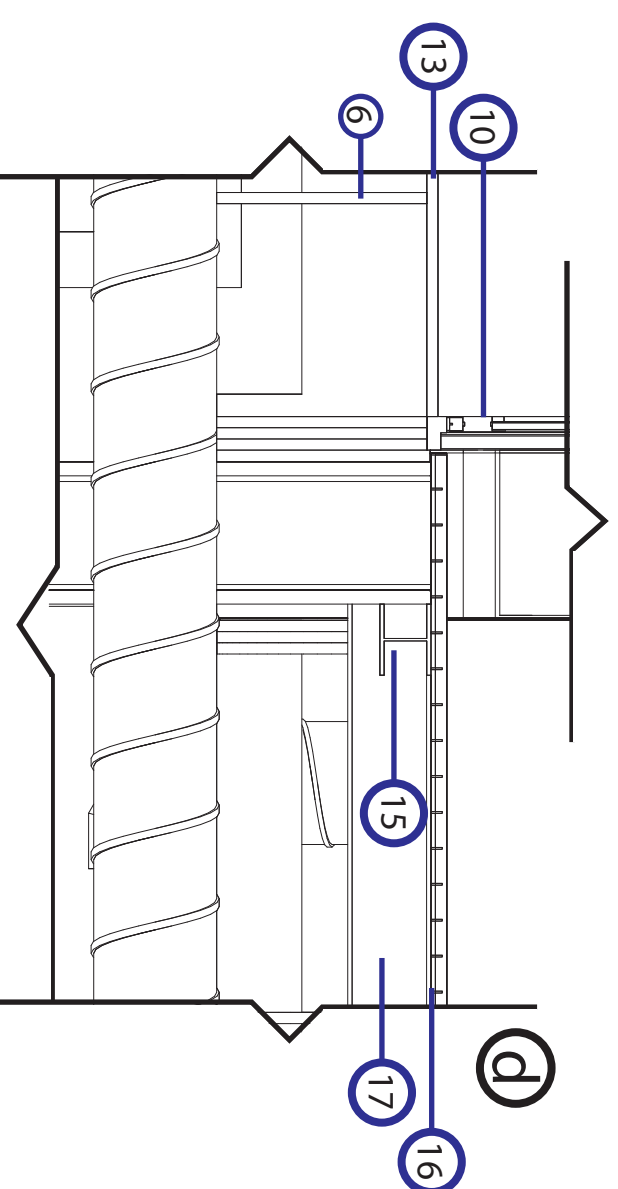
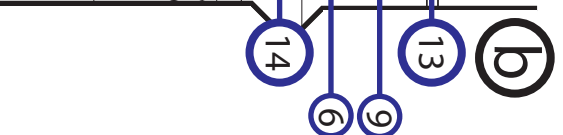
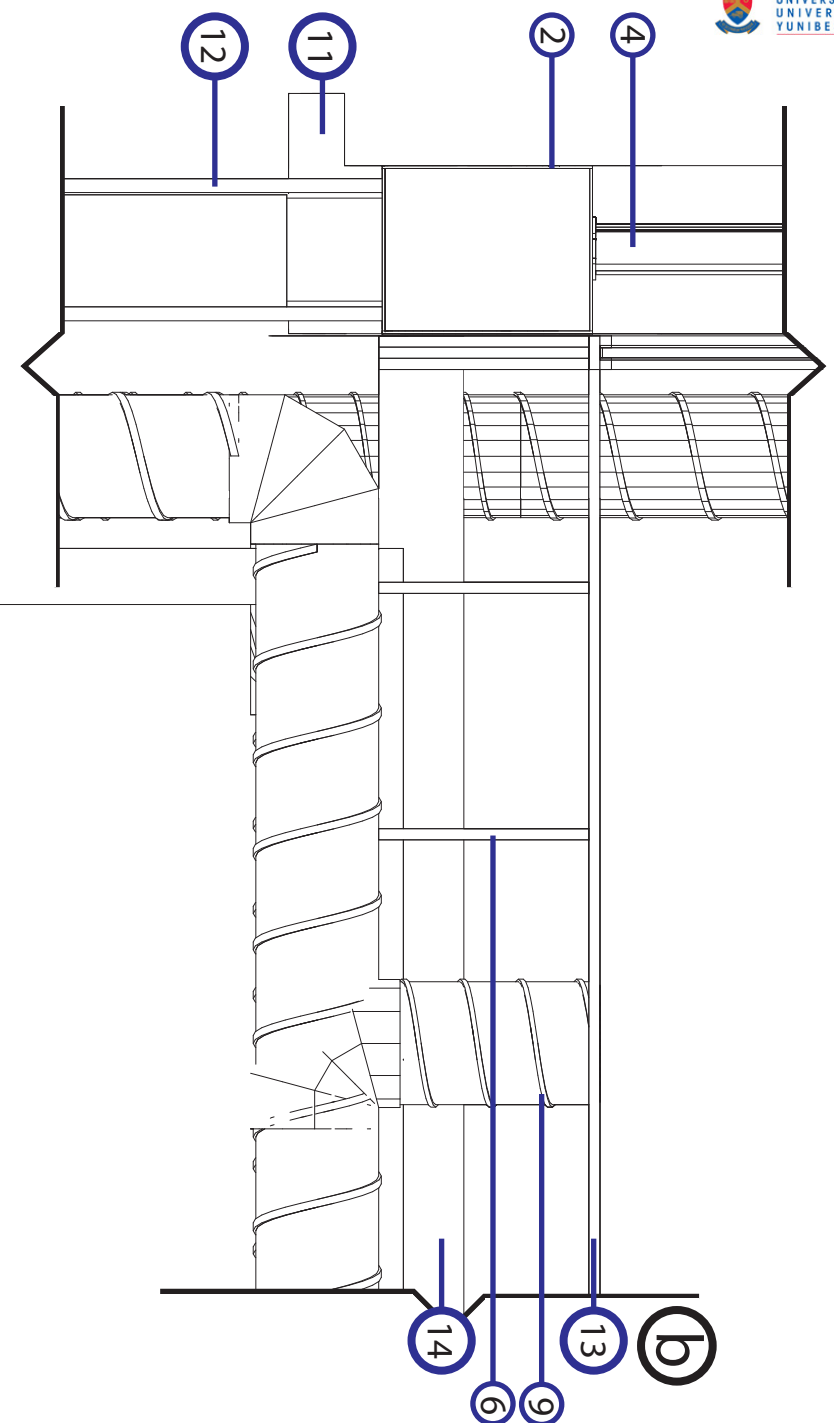
SOUTHERN SECTION - AA



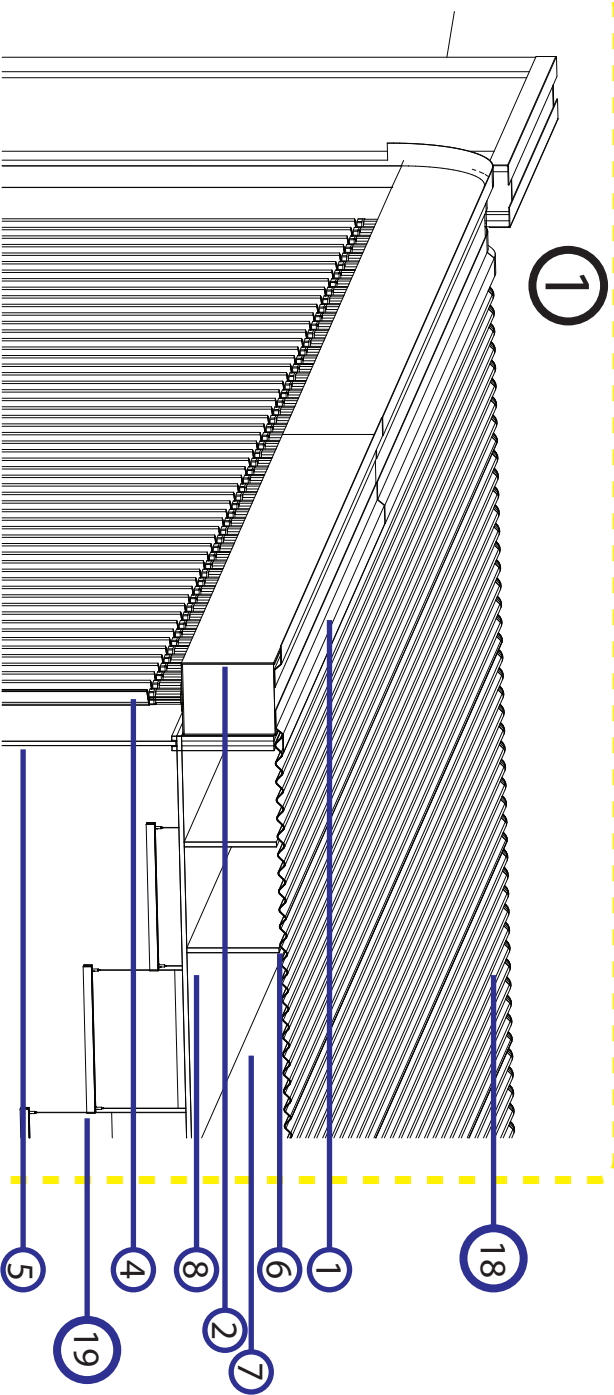
SOUTHERN SECTION DETAIL CALLOUTS



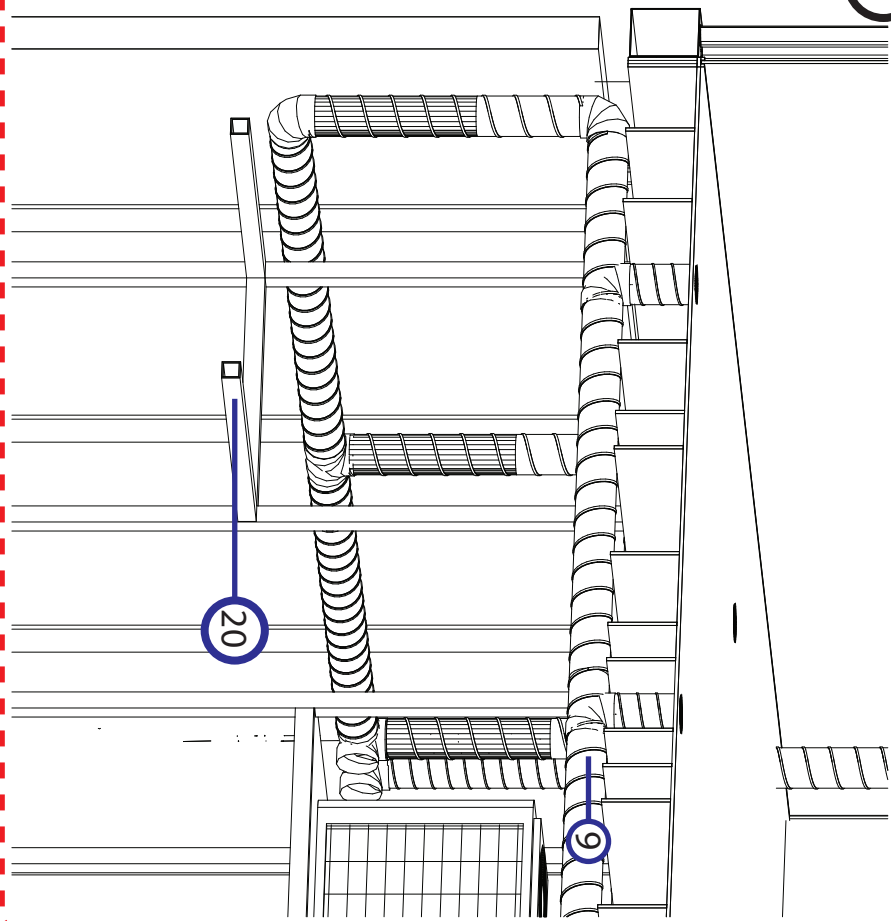
- 1 CUSTOM FABRICATION GALVANIZED STEEL FLASHING
- 2 5mm CUSTOM MANUFACTURED GUTTER SYSTEM
- 3 MOTORIZED MOUNT FOR LOUVER OPERATION
- 4 CUSTOM ALUMINIUM LOUVER PROFILE - OPERABLE
- 5 12mm SOLAR LIMITING GLAZING
- 6 24mm S.A. PINE PLYWOOD - FINISHED TO 22mm
- 7 60mm RIGID POLYURETHANE FOAM INSULATION
- 8 24mm S.A. PINE PLYWOOD CEILING - FINISHED TO 22mm
- 9 GALVANISED AIR CONDITIONING DUCT - HUNG FROM PLYWOOD FIN SPACERS SUPPORTING THE CEILING
- 10 ALUMINIUM FRAME SLIDING DOOR - 8mm SAFETY GLASS PANEL
- 11 CUSTOM GUTTER OUTLET
- 12 254x254mm UNIVERSAL STEEL COLUMN
- 13 24mm MARINE PLYWOOD - VARNISH FINISH
- 14 S.A. PINE BEAM SUPPORTING STRUCTURE
- 15 254x82mm UNIVERSAL STEEL BEAM
- 16 GALVANIZED STEEL VITAGRID PLAIN GRATING SYSTEM - 30X50MM GRID SPACING
- 17 254x92mm UNIVERSAL STEEL BEAM



SOUTHERN SECTION DETAIL CALLOUTS

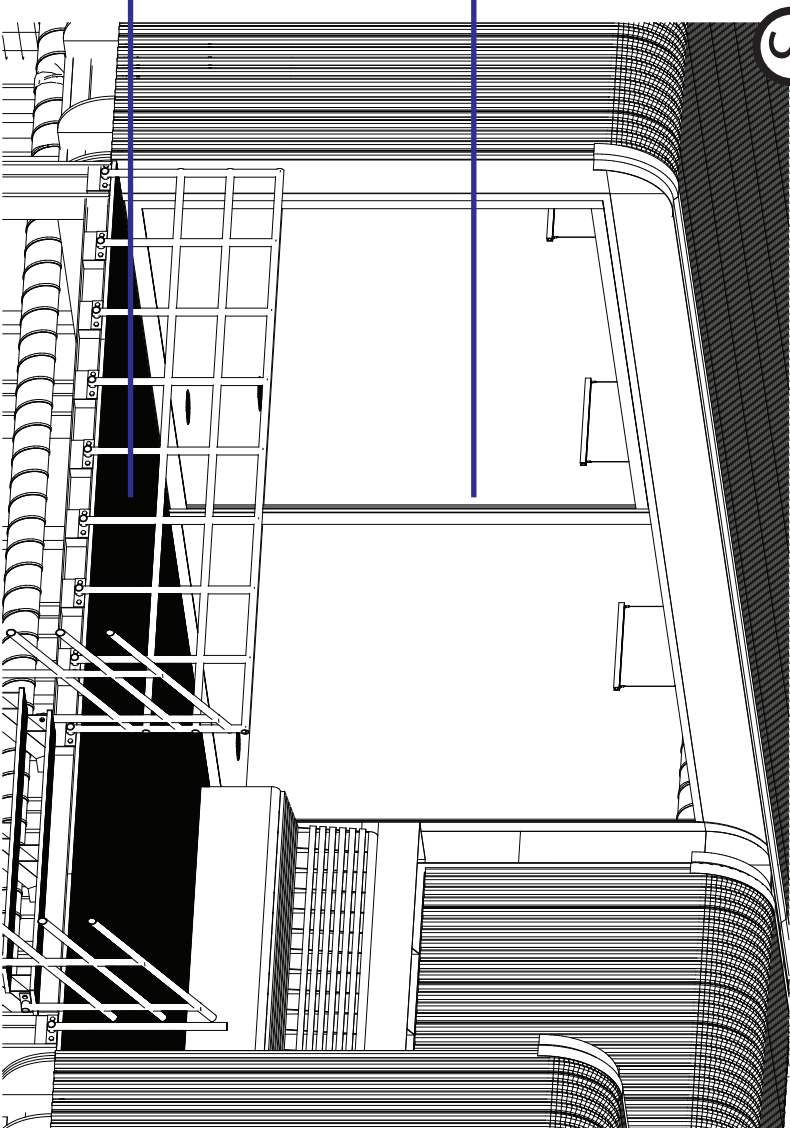


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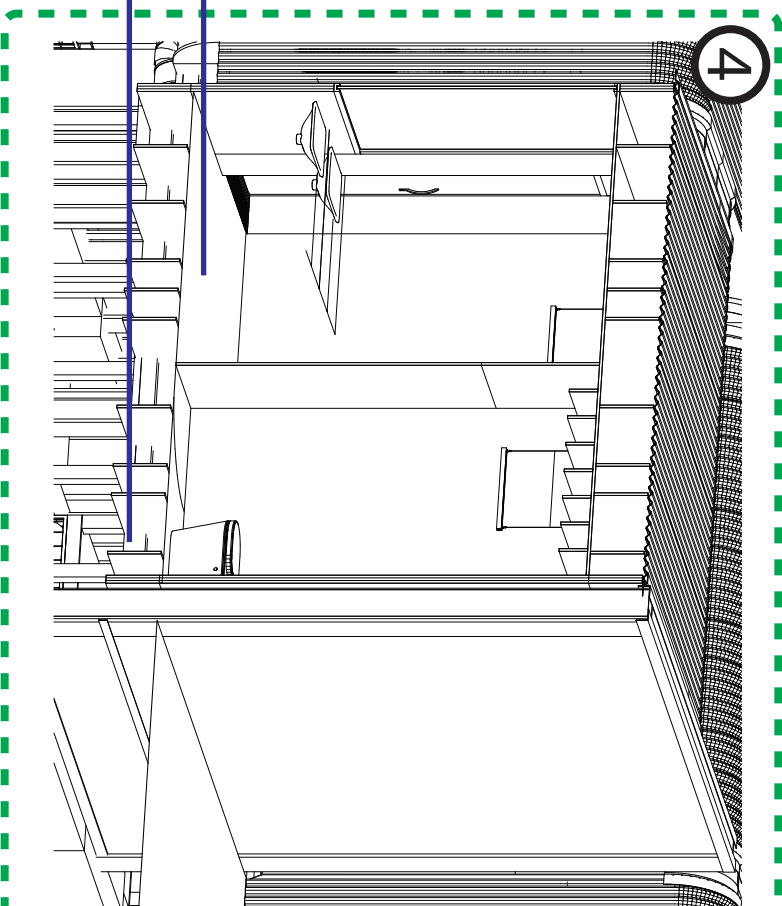
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4



1 CUSTOM FABRICATION GALVANIZED STEEL FLASHING

2 5mm CUSTOM MANUFACTURED GUTTER SYSTEM

4 CUSTOM ALUMINIUM LOUVER PROFILE - OPERABLE

5 12mm SOLAR LIMITING GLAZING

6 24mm S.A. PINE PLYWOOD - FINISHED TO 22mm

7 60mm RIGID POLYURETHANE FOAM INSULATION

8 24mm S.A. PINE PLYWOOD CEILING - FINISHED TO 22mm

9 GALVANISED AIR CONDITIONING DUCT - HUNG FROM PLYWOOD FIN SPACERS SUPPORTING THE CEILING

10 ALUMINIUM FRAME SLIDING DOOR - 8mm SAFETY GLASS PANEL

13 24mm MARINE PLYWOOD - VARNISH FINISH

14 152x76mm S.A. PINE BEAM SUPPORTING STRUCTURE

16 GALVANIZED STEEL VITAGRID PLAIN GRATING SYSTEM - 30X50mm GRID SPACING

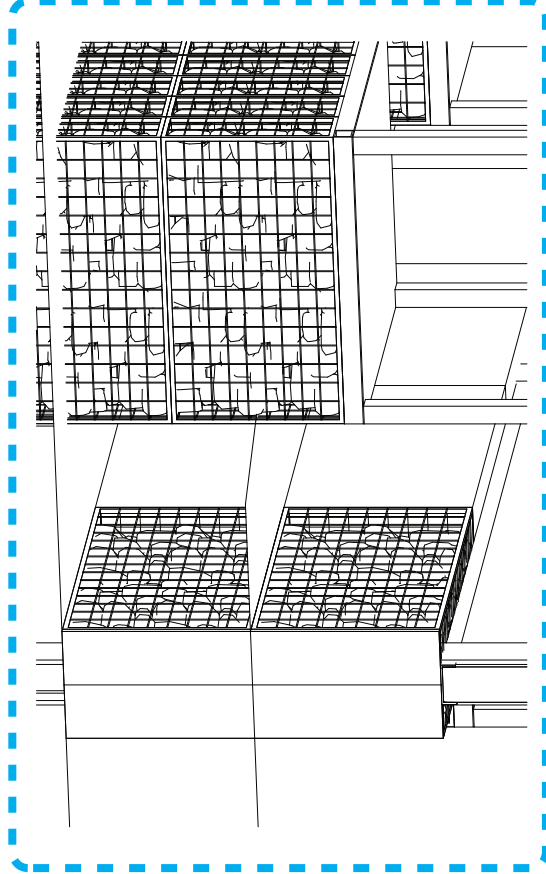
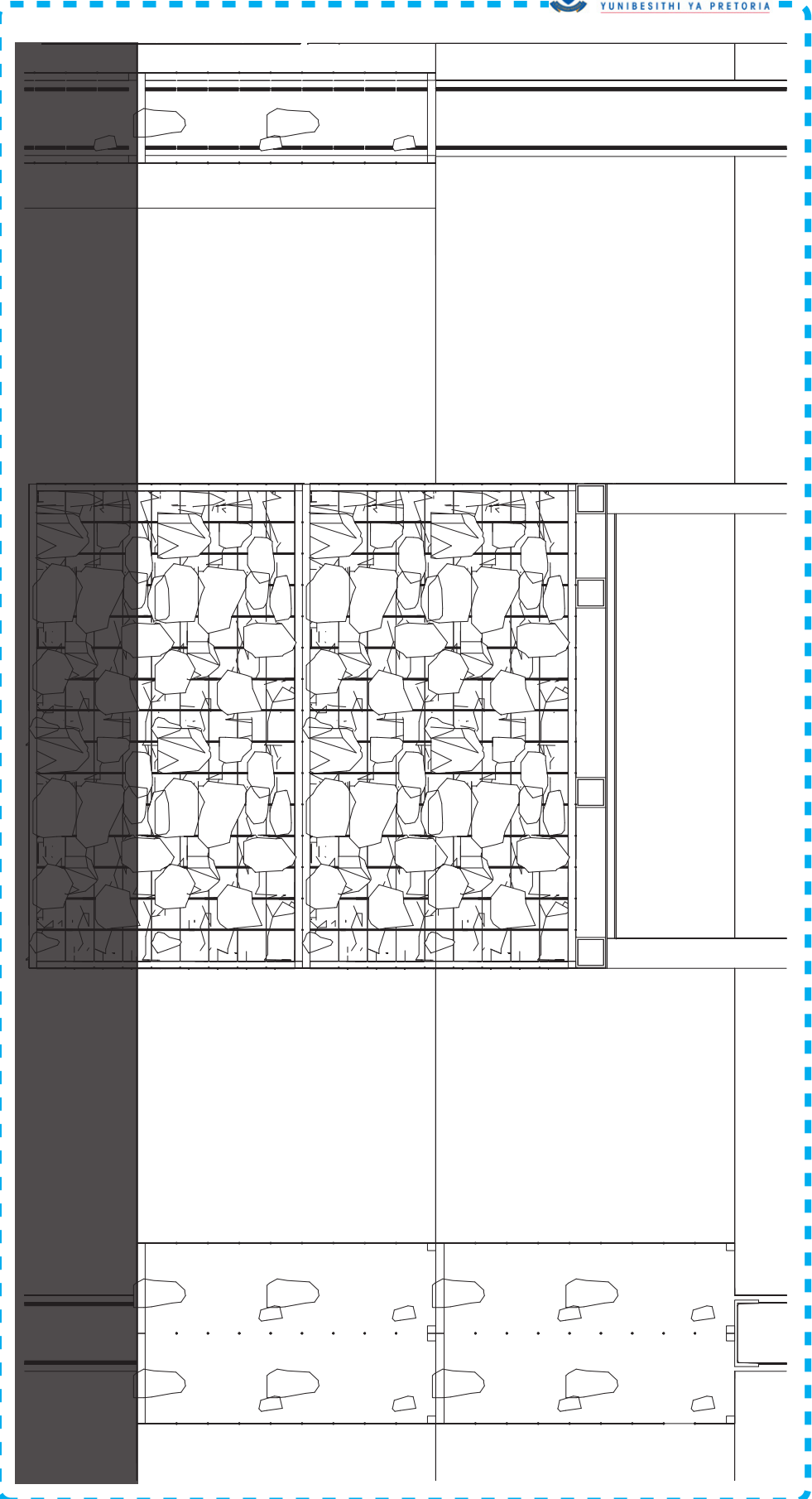
18 0.3mm LOW DENSITY POLYETHYLENE SHRINK-WRAP - DESIGNED TO BE COVERED WITH ADDITIONAL GALVANIZED ROOF SHEETING IF

19 DEEMED NECESSARY

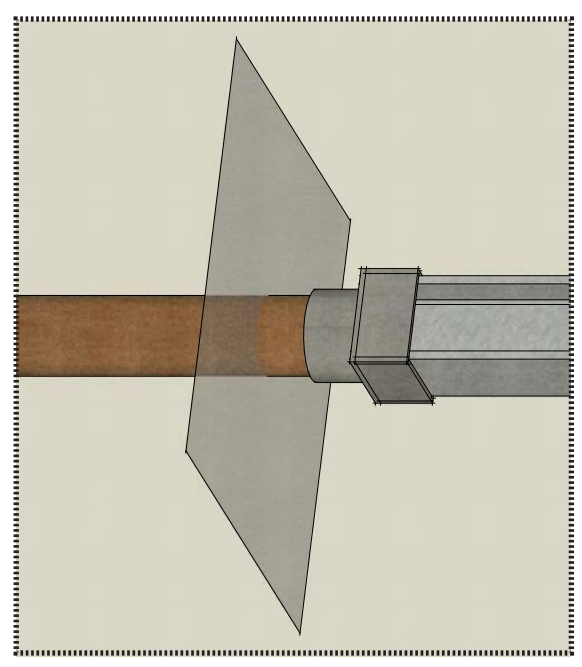
19 CEILING HUNG LIGHTING SYSTEM

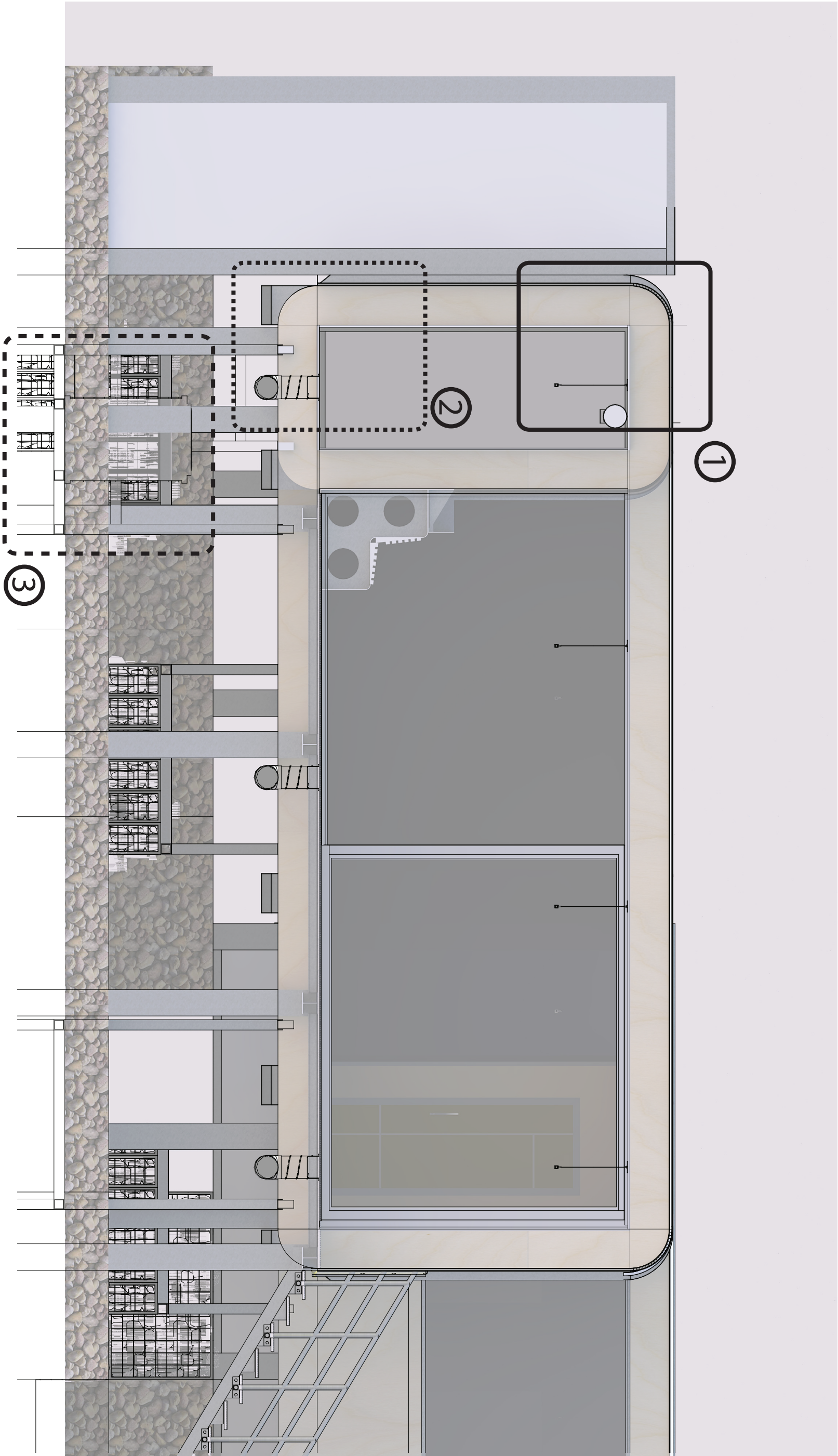
20 100X100mm STEEL TUBE SUPPORT SYSTEM

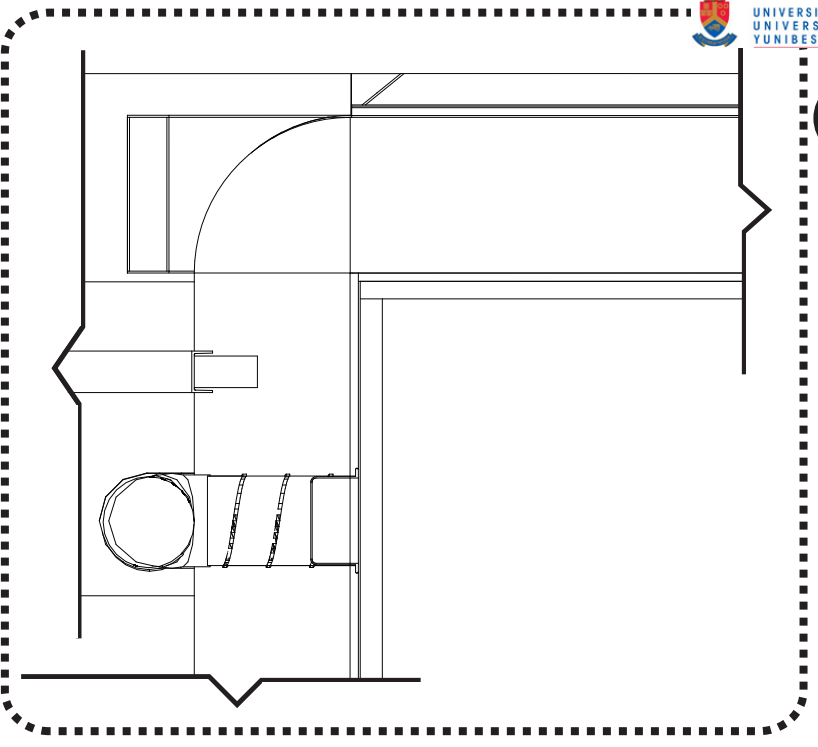




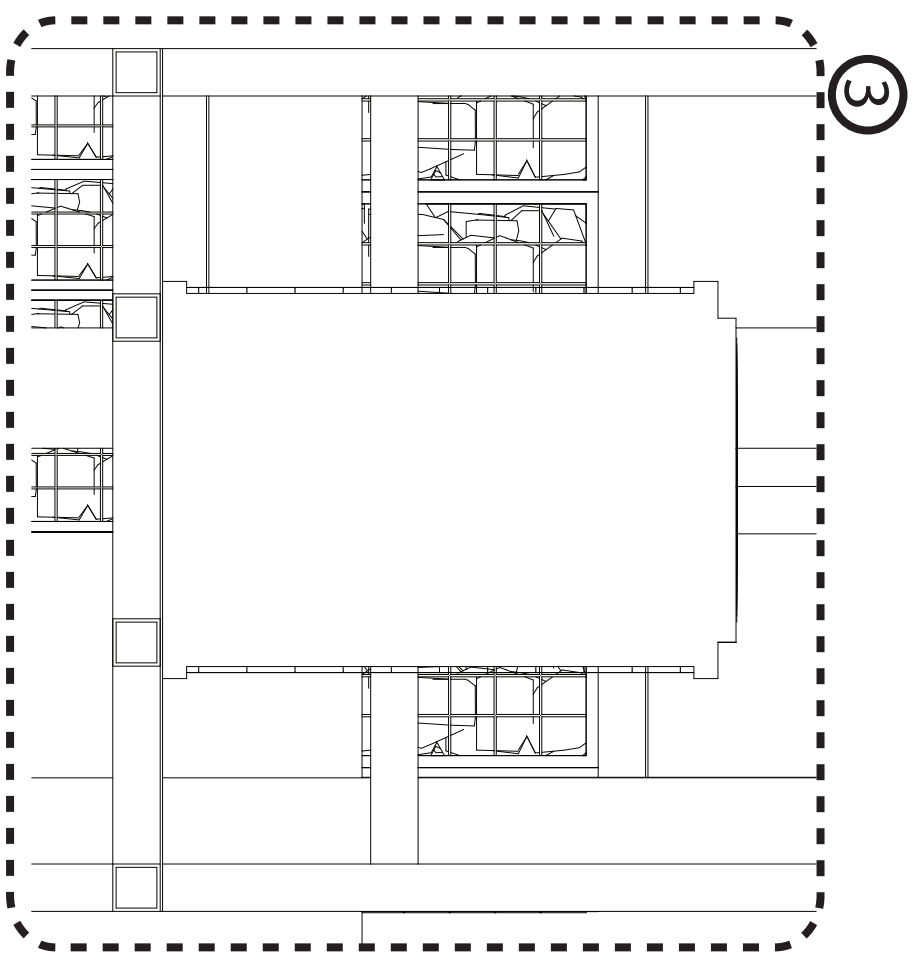
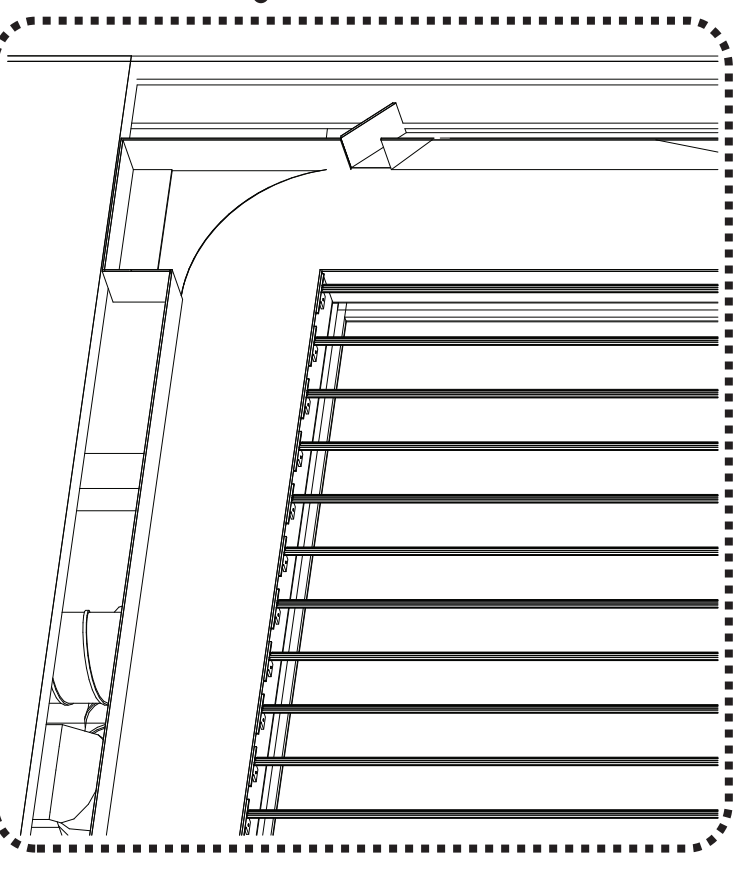
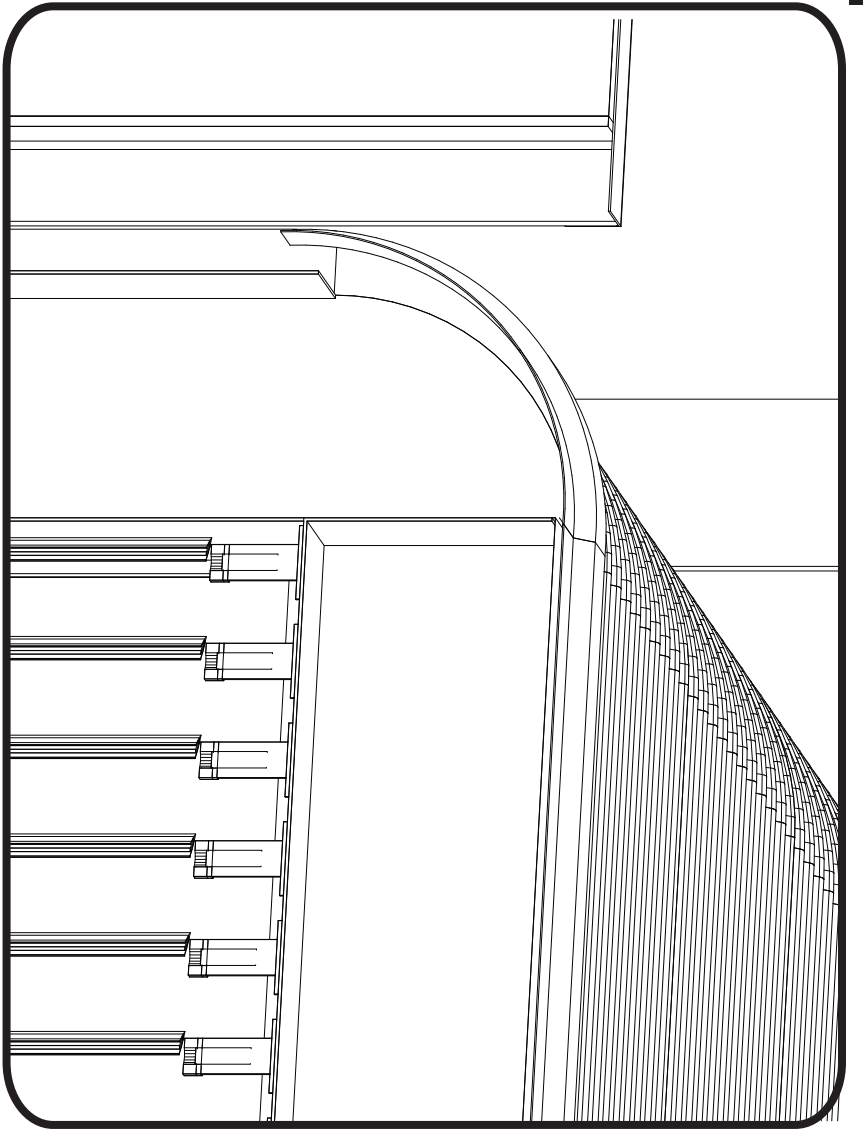
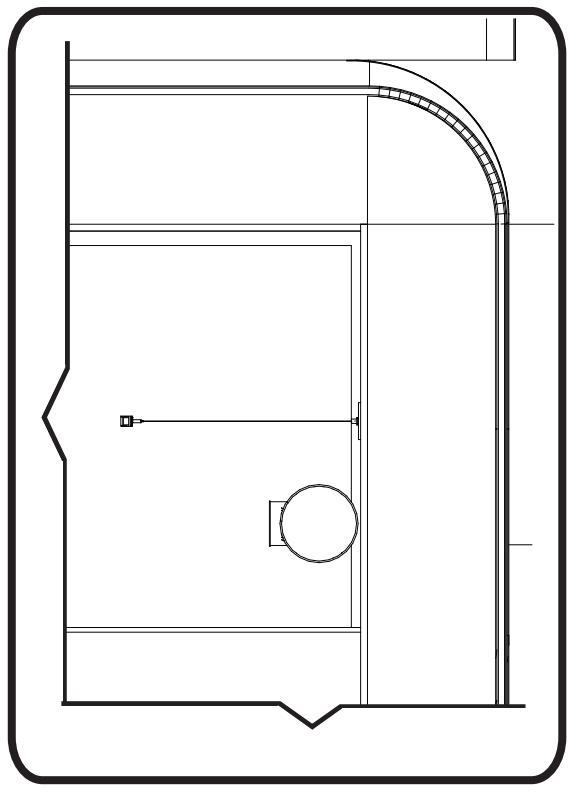
SOUTHERN SECTION DETAIL CALLOUTS



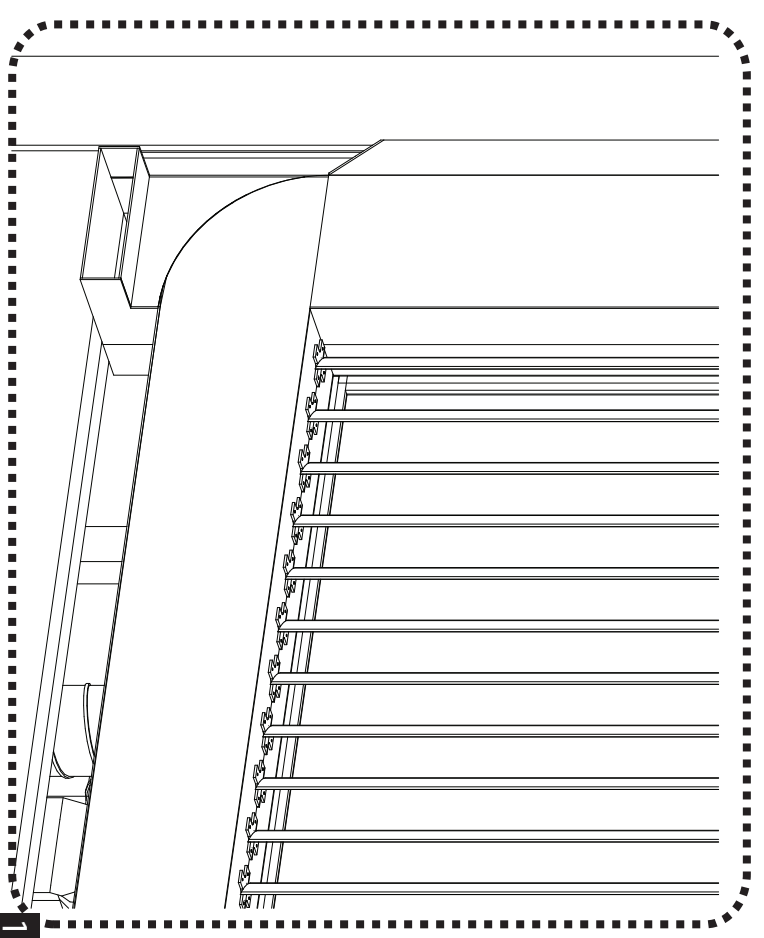
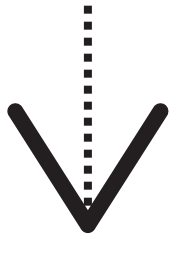
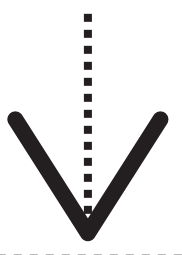


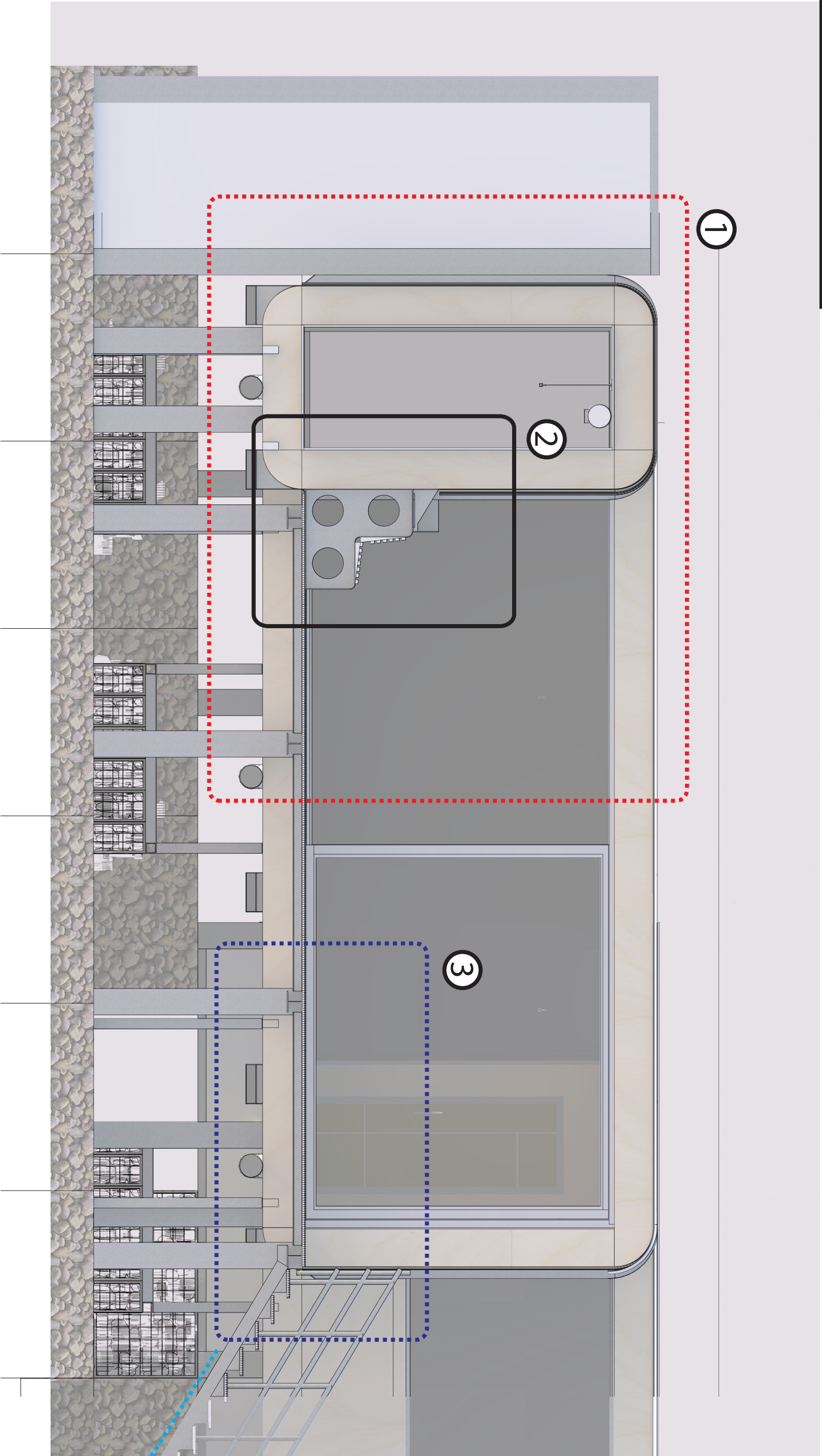


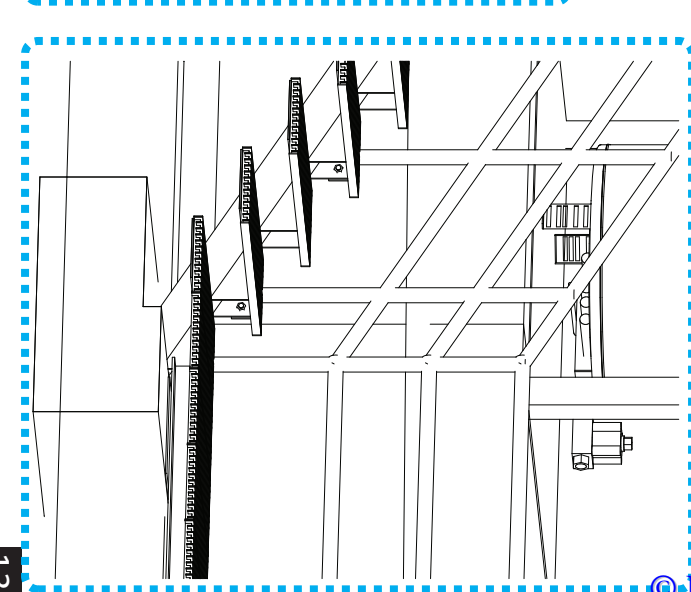
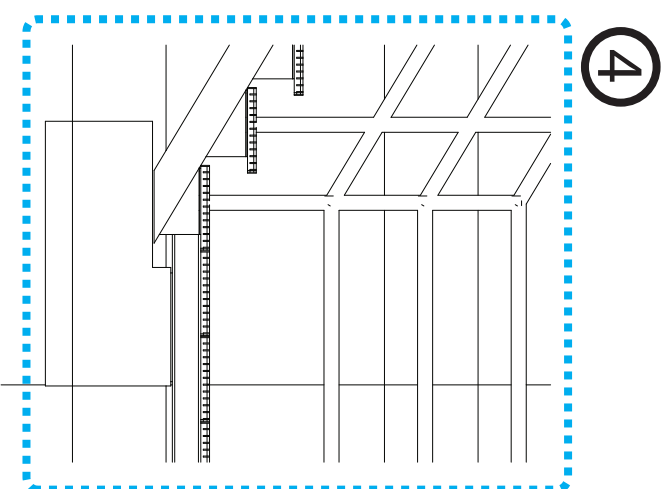
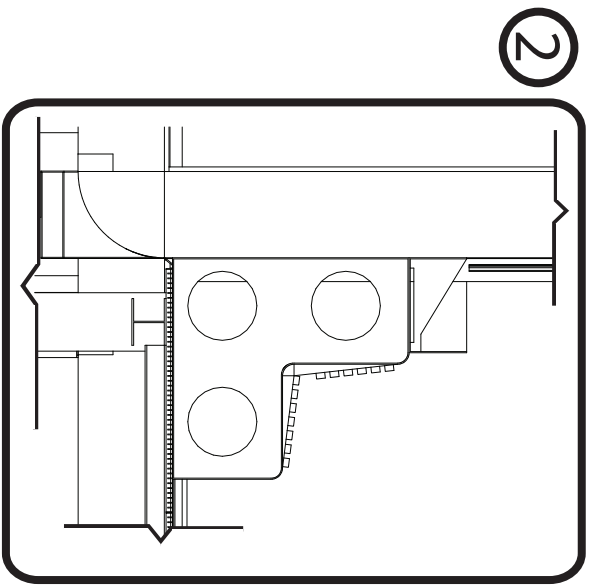
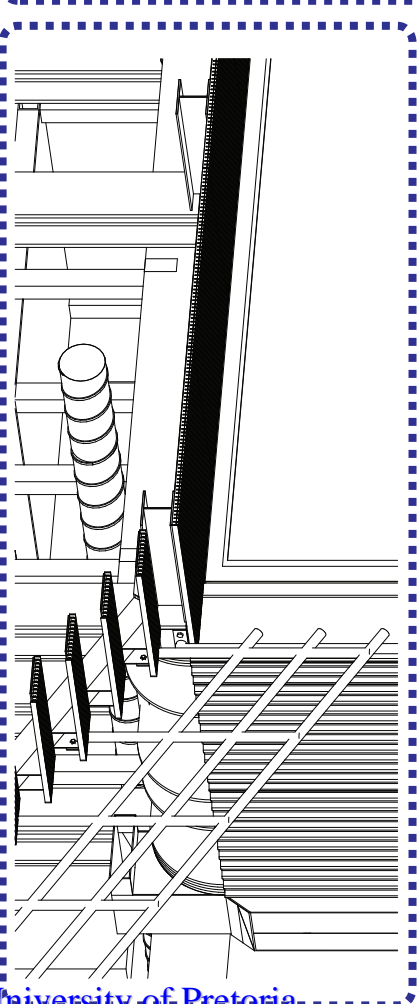
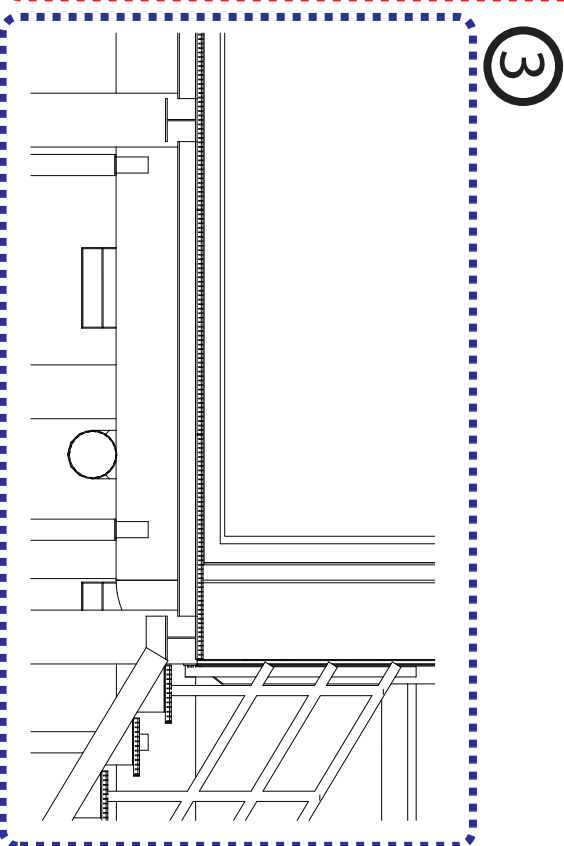
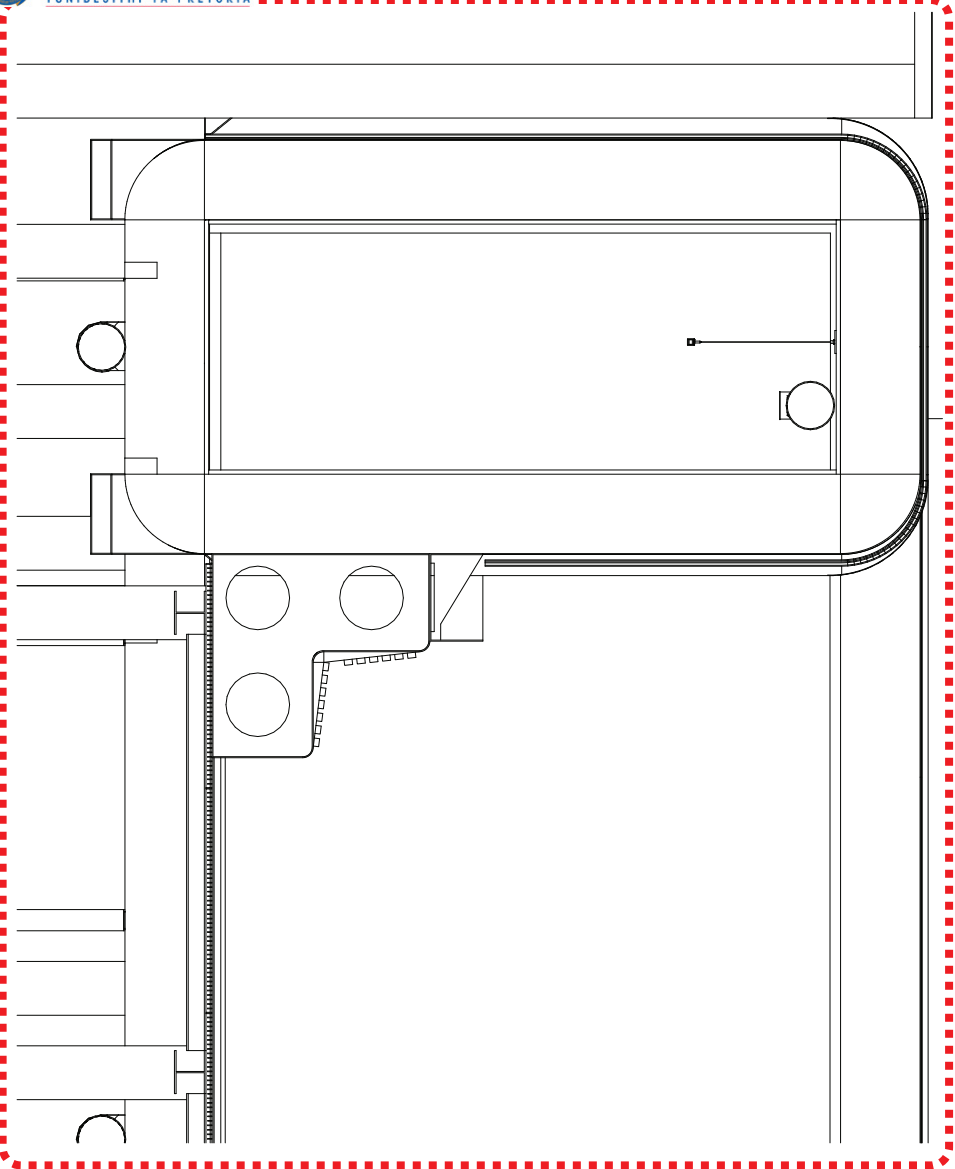
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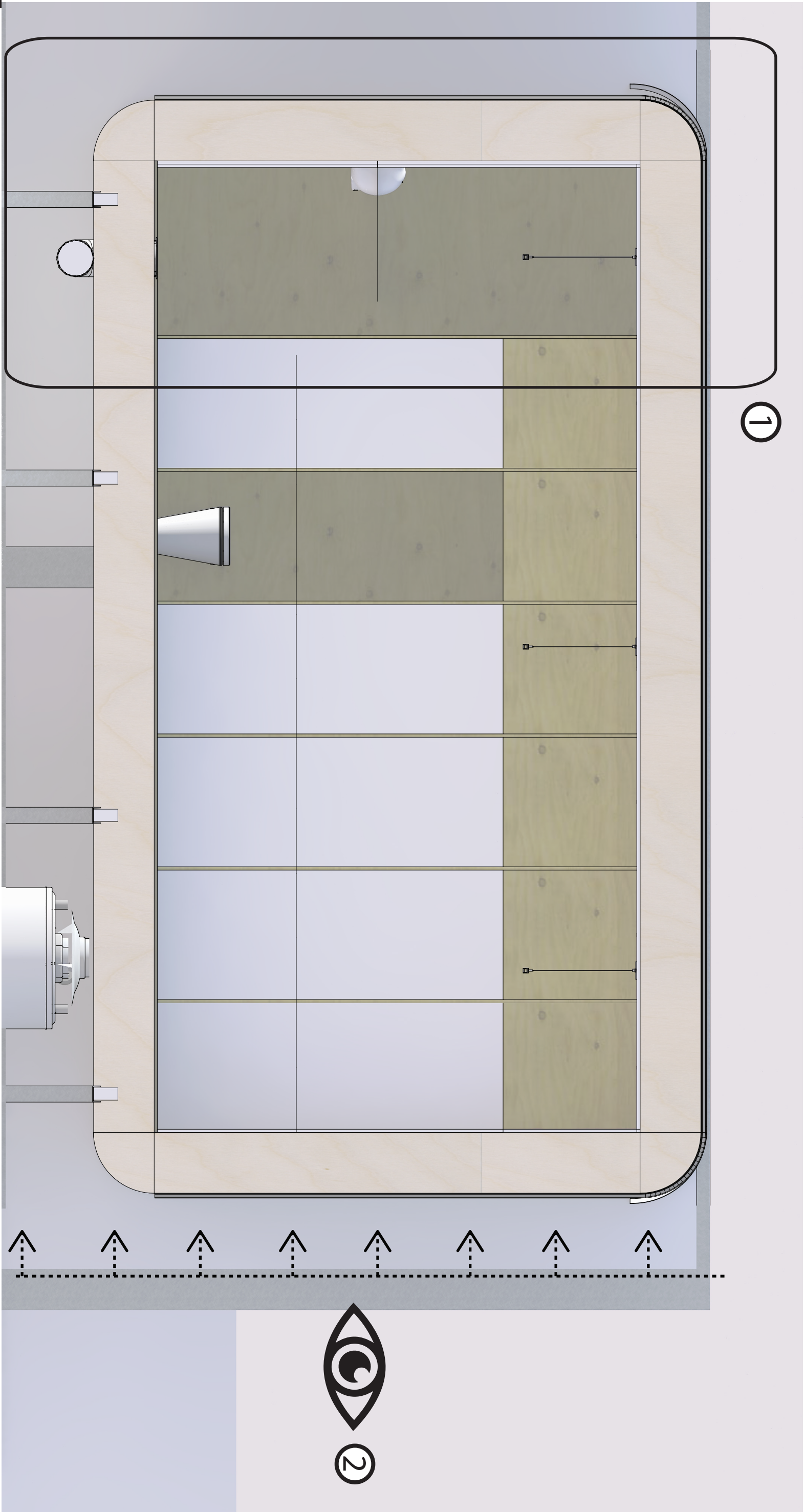
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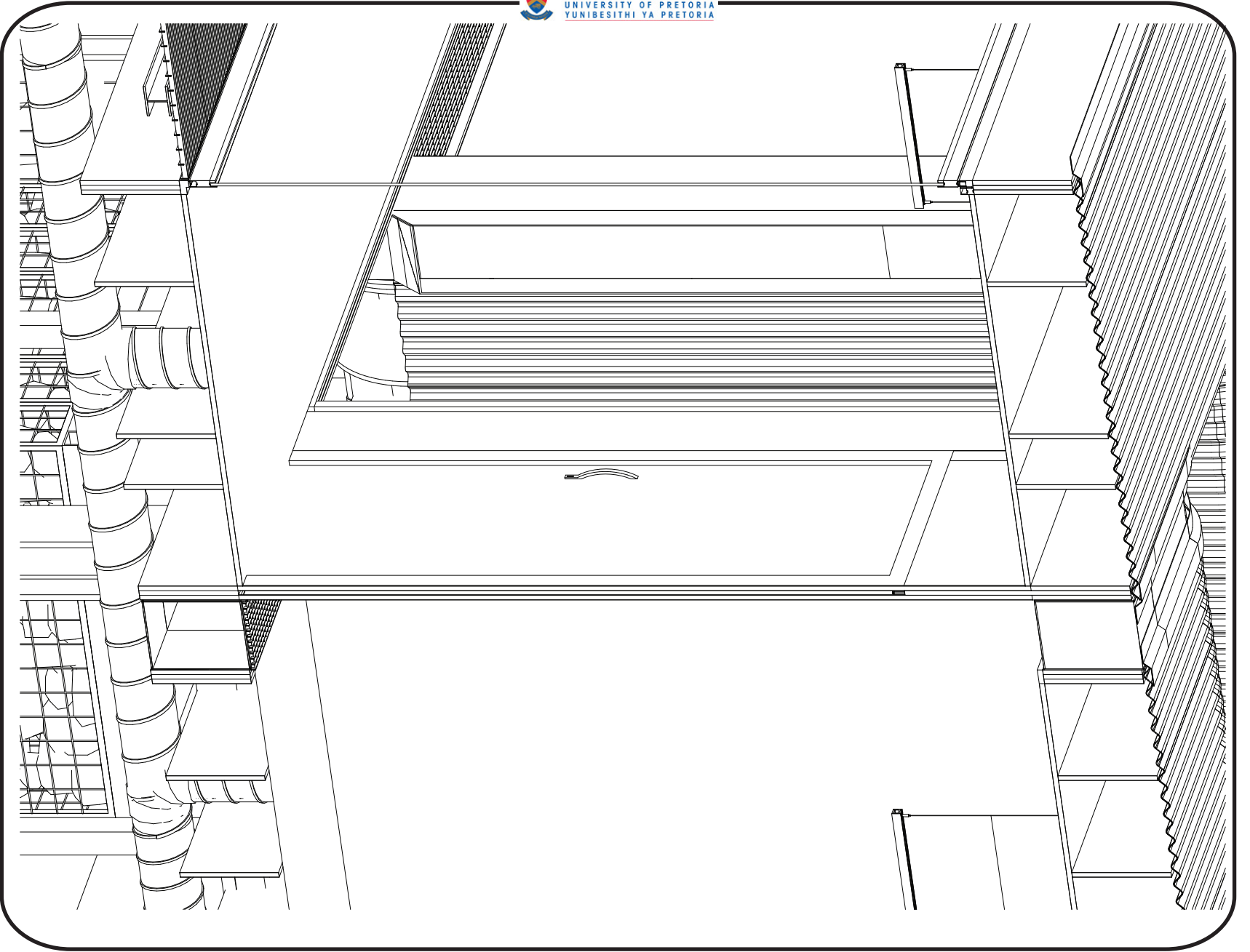
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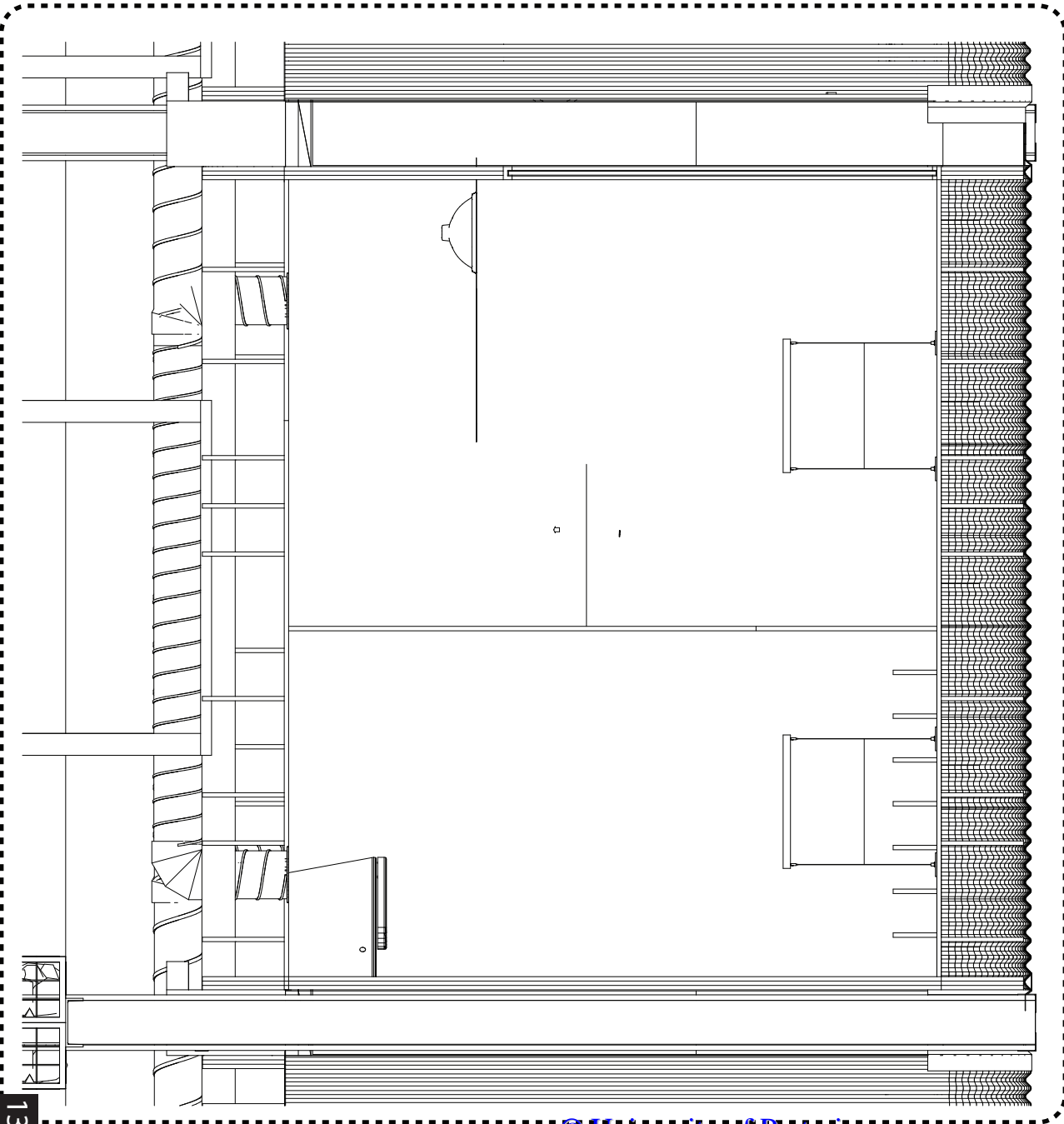
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WESTERN SECTION 3-3



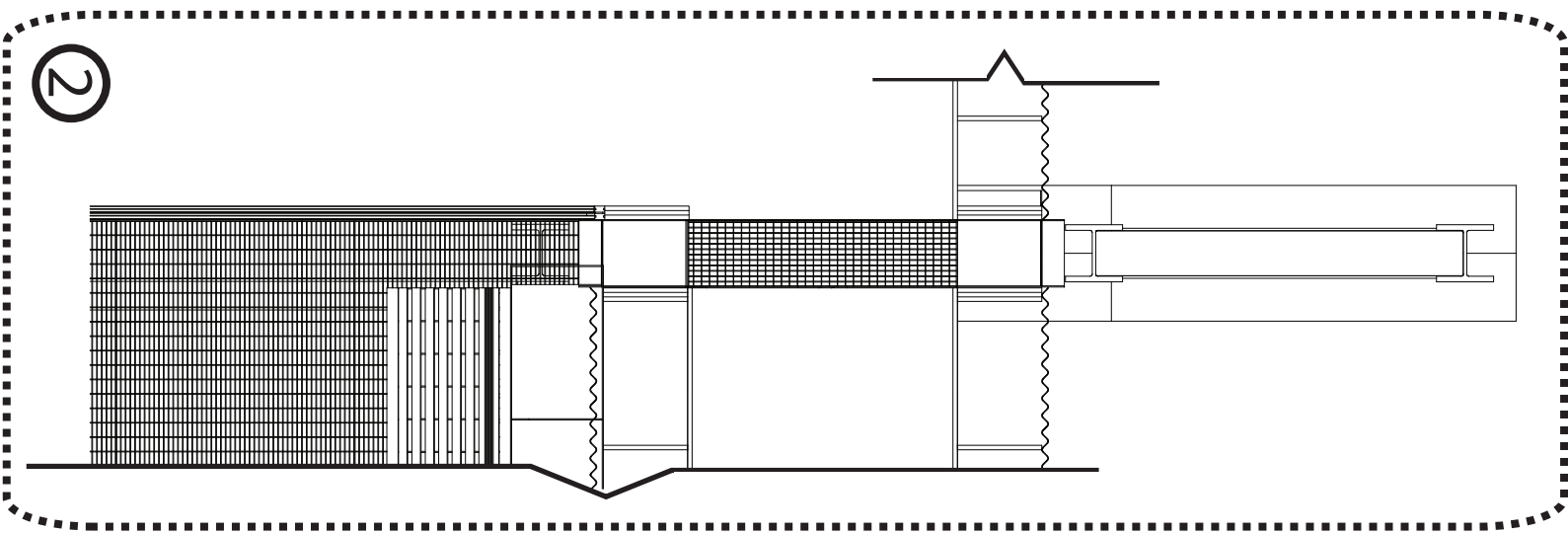
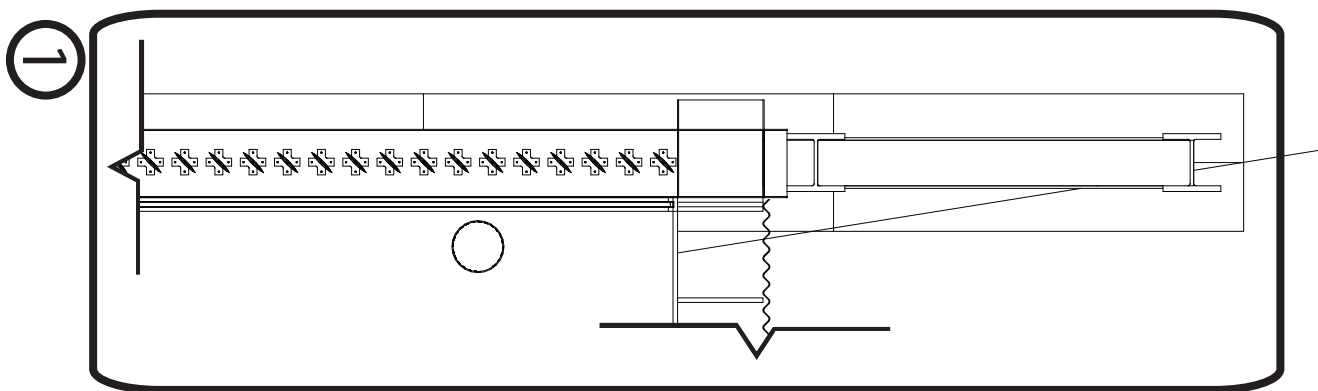
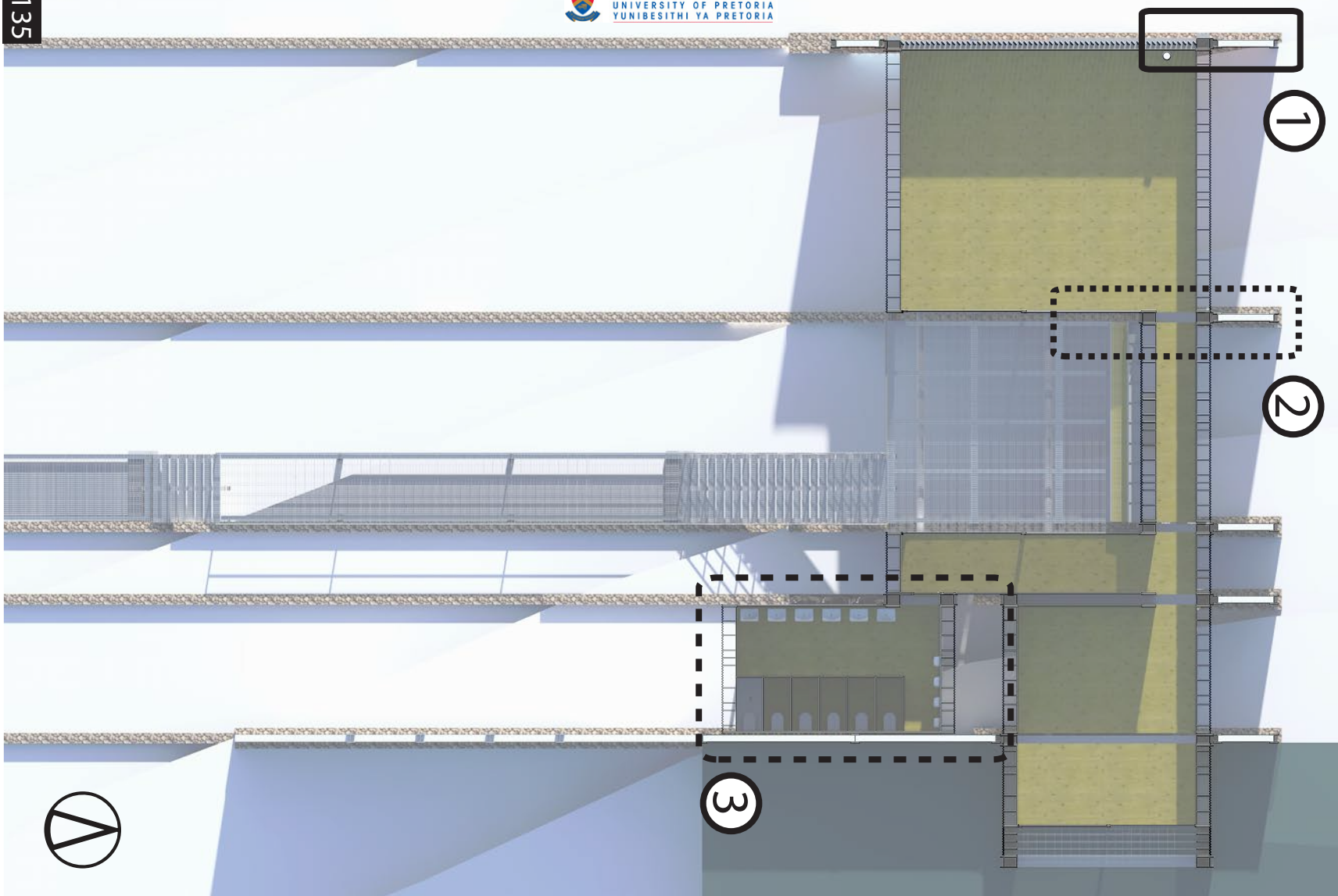


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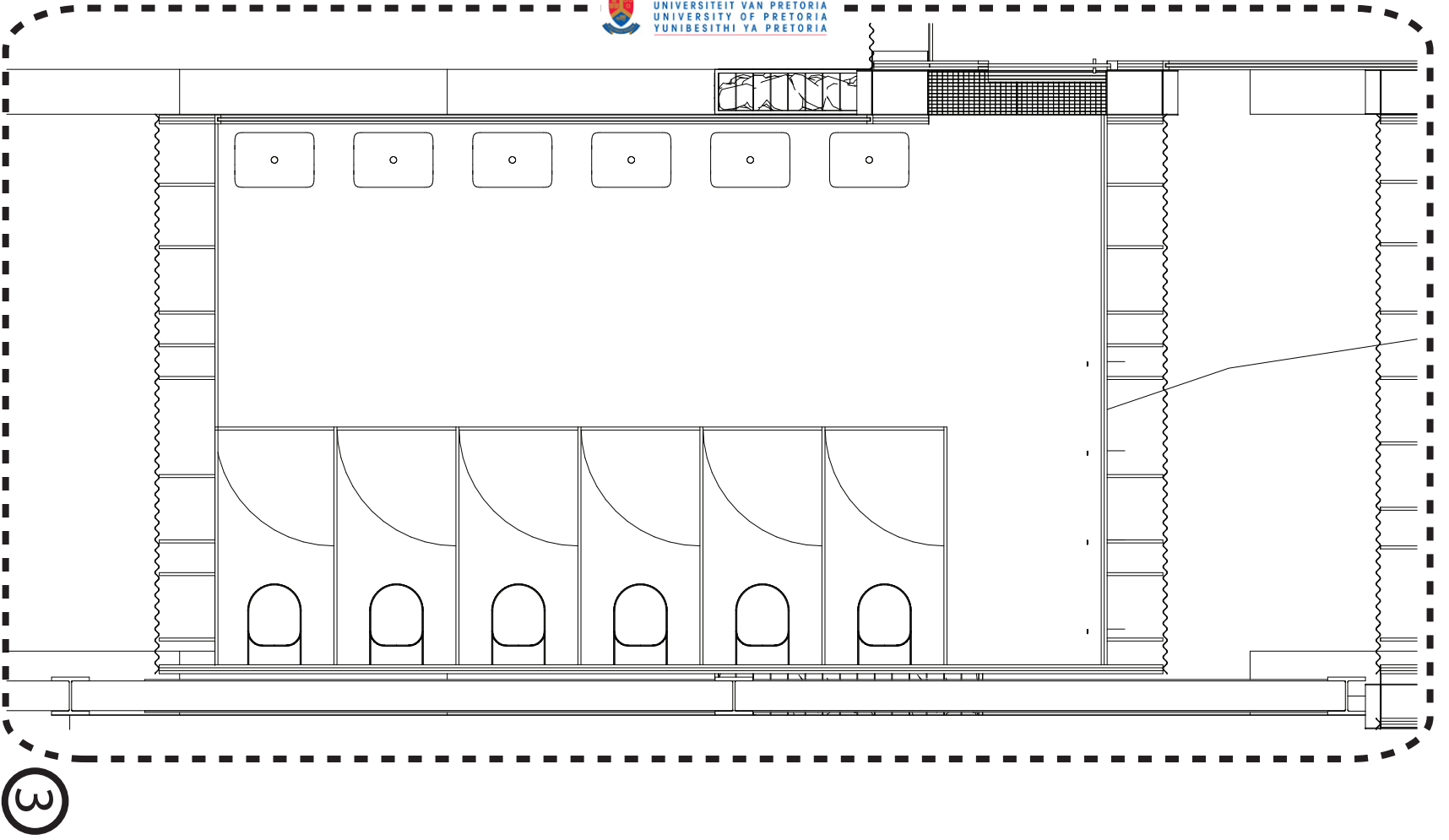


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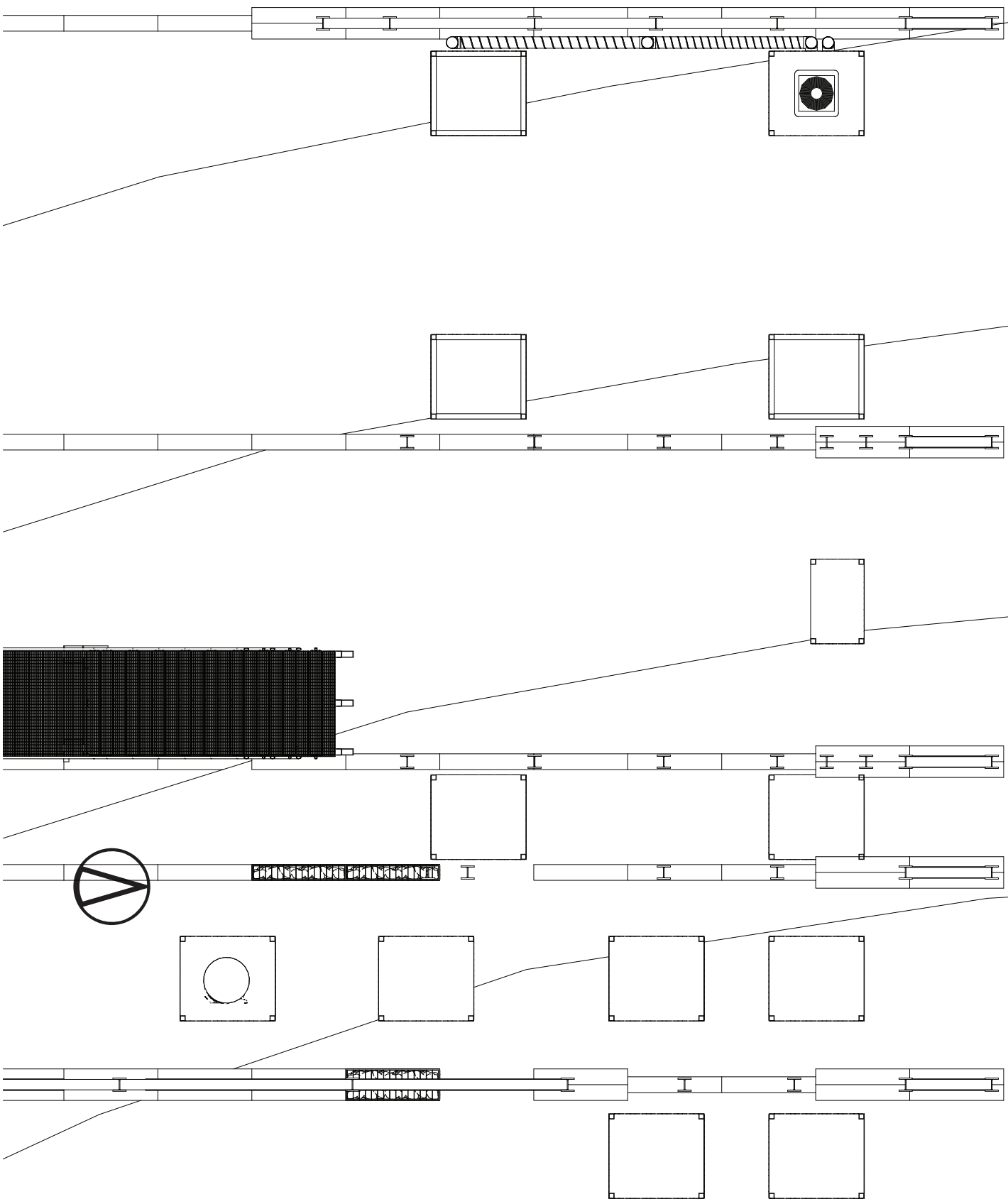
WESTERN SECTION DETAIL CALLOUTS



WELCOME CENTRE PLAN



3



WELCOME CENTRE STRUCTURAL PLAN

