

# 008 TECHNICAL DOCUMENTATION

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**8.1 Plans**

**8.2 Sections**

**8.3 Details**

**8.4 Elevations**



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA



BRIDGING THE GAP  
Interactive Architectural Incubator

SITE PLAN

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

**1 : 1250**

datum  
date

**NOV 2008**

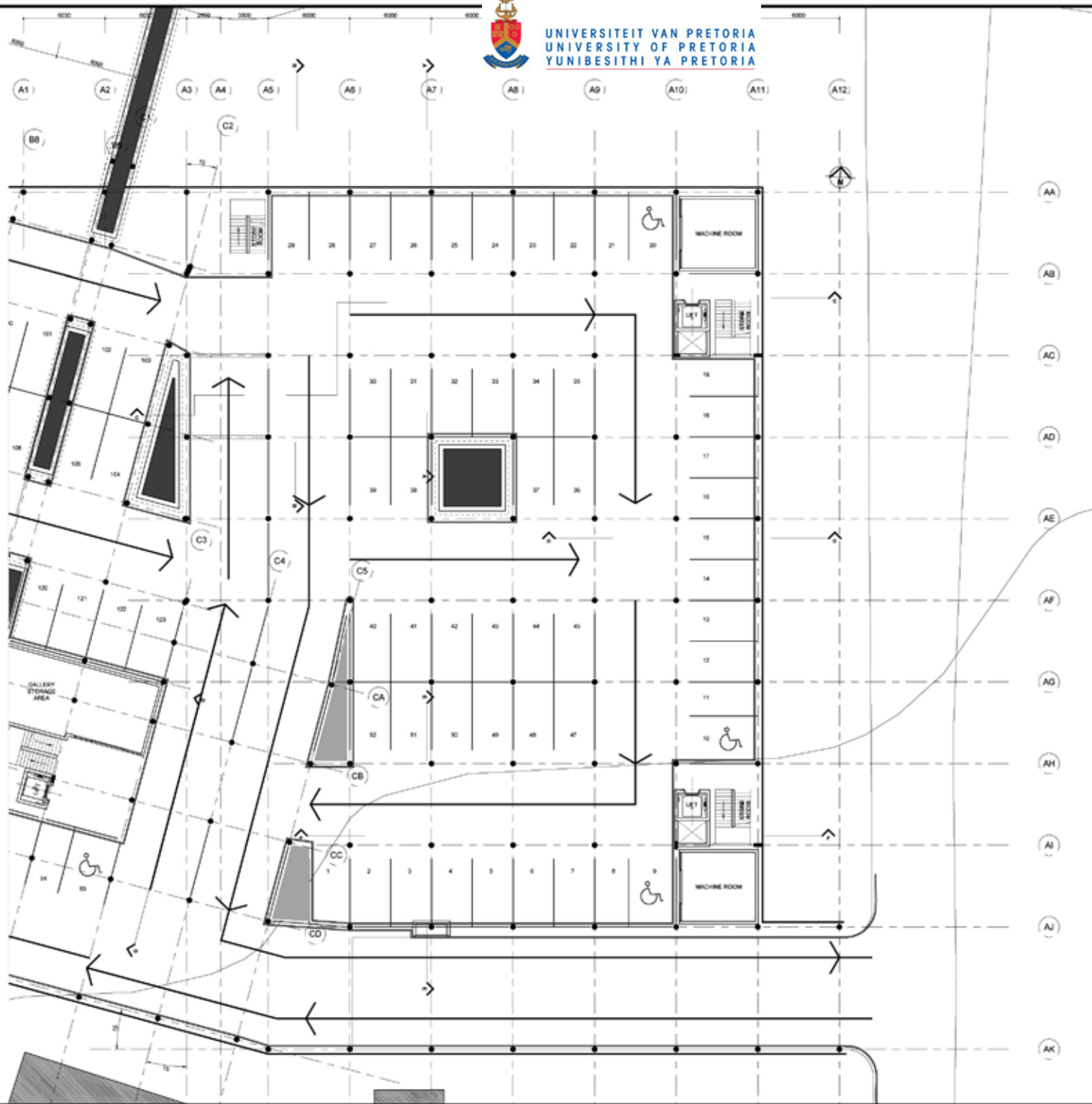
studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

**001**





BRIDGING THE GAP  
Interactive Architectural Incubator

**BASEMENT PLAN**

naam  
name  
**CHRISTINE GOOSEN**  
skaal  
scale

**1 : 400**

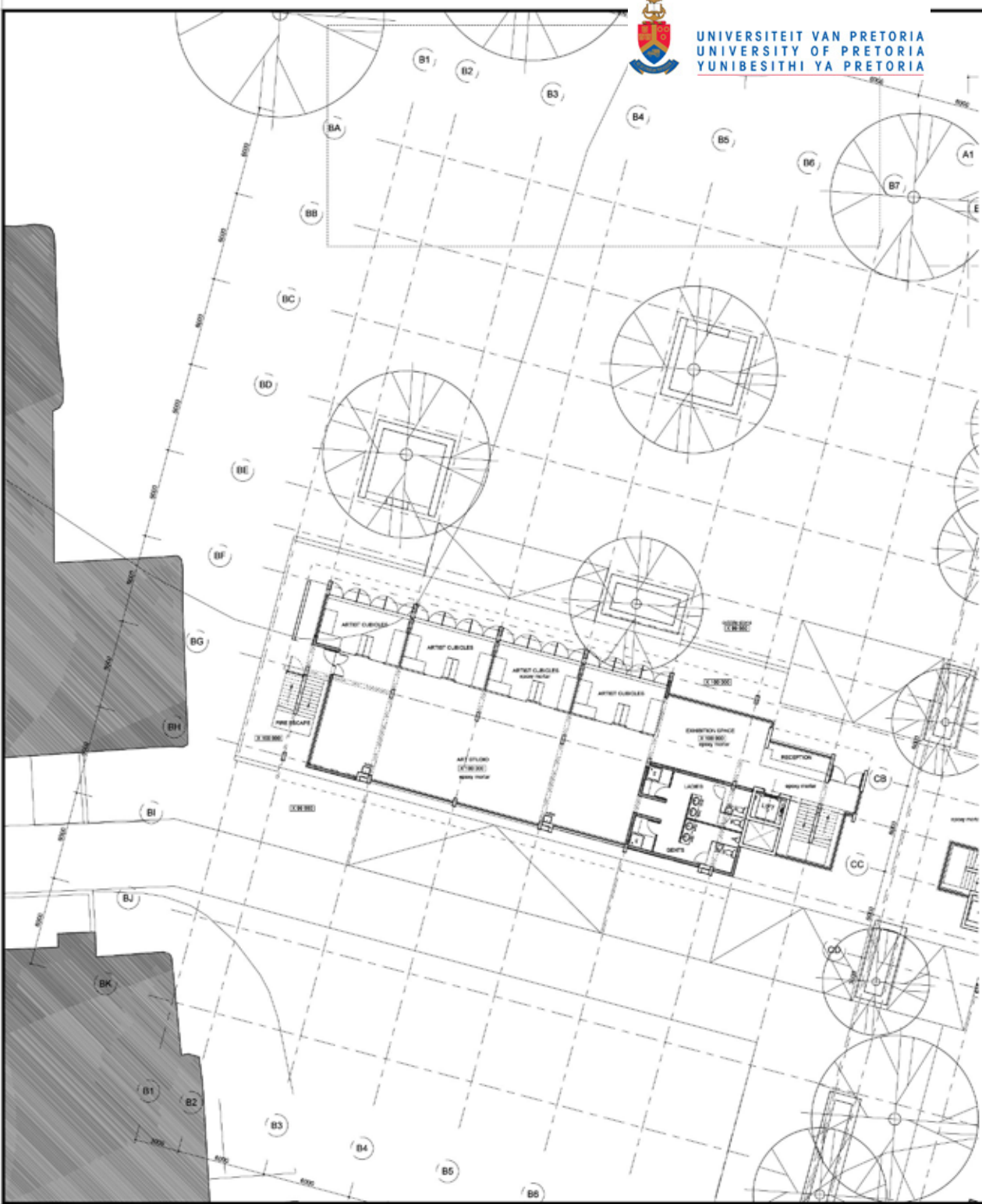
datum  
date

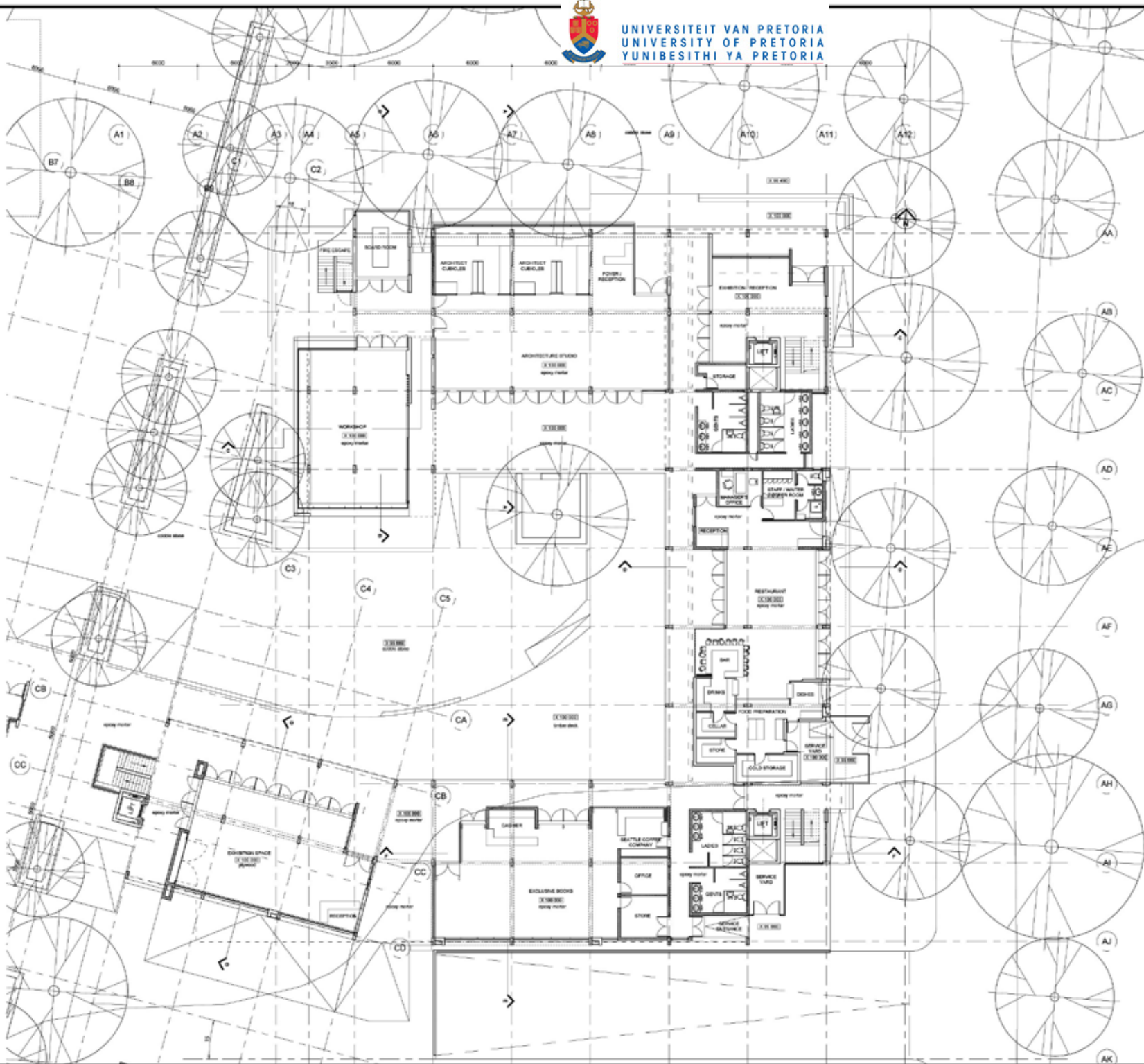
**NOV 2008**

studente nommer  
student number  
**20098465**

tekeningnommer  
drawing number

**002**





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GROUND FLOOR PLAN

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

1 : 400

datum  
date

**NOV 2008**

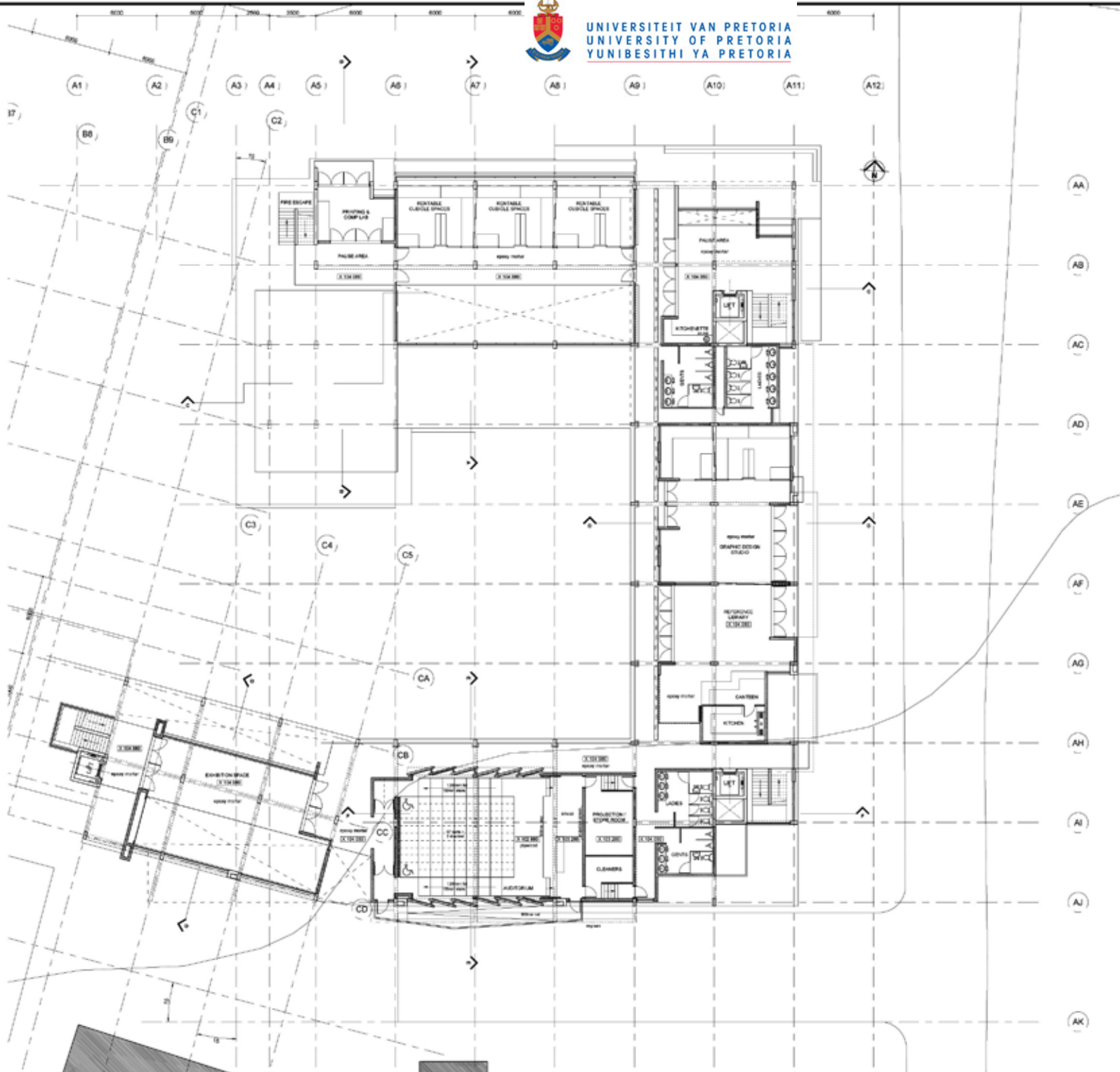
studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

**003**





BRIDGING THE GAP  
Interactive Architectural Incubator

FIRST FLOOR PLAN

naam  
name  
**CHRISTINE GOOSEN**  
skaal  
scale

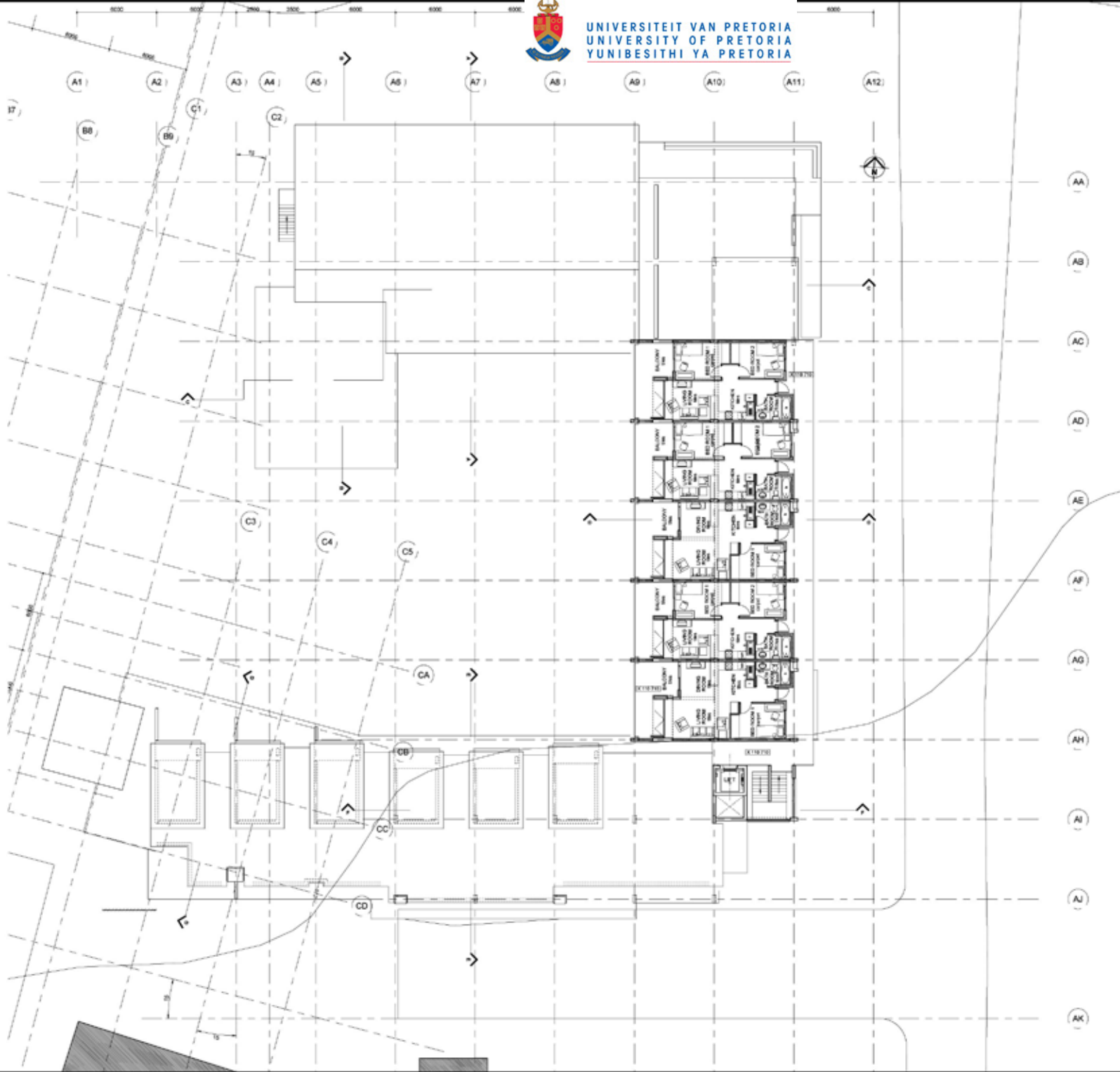
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datum  
date  
**NOV 2008**

studente nommer  
student number  
**20098465**

tekeningnommer  
drawing number  
**004**





BRIDGING THE GAP  
Interactive Architectural Incubator

**THIRD FLOOR PLAN**

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

**1 : 400**

datum  
date

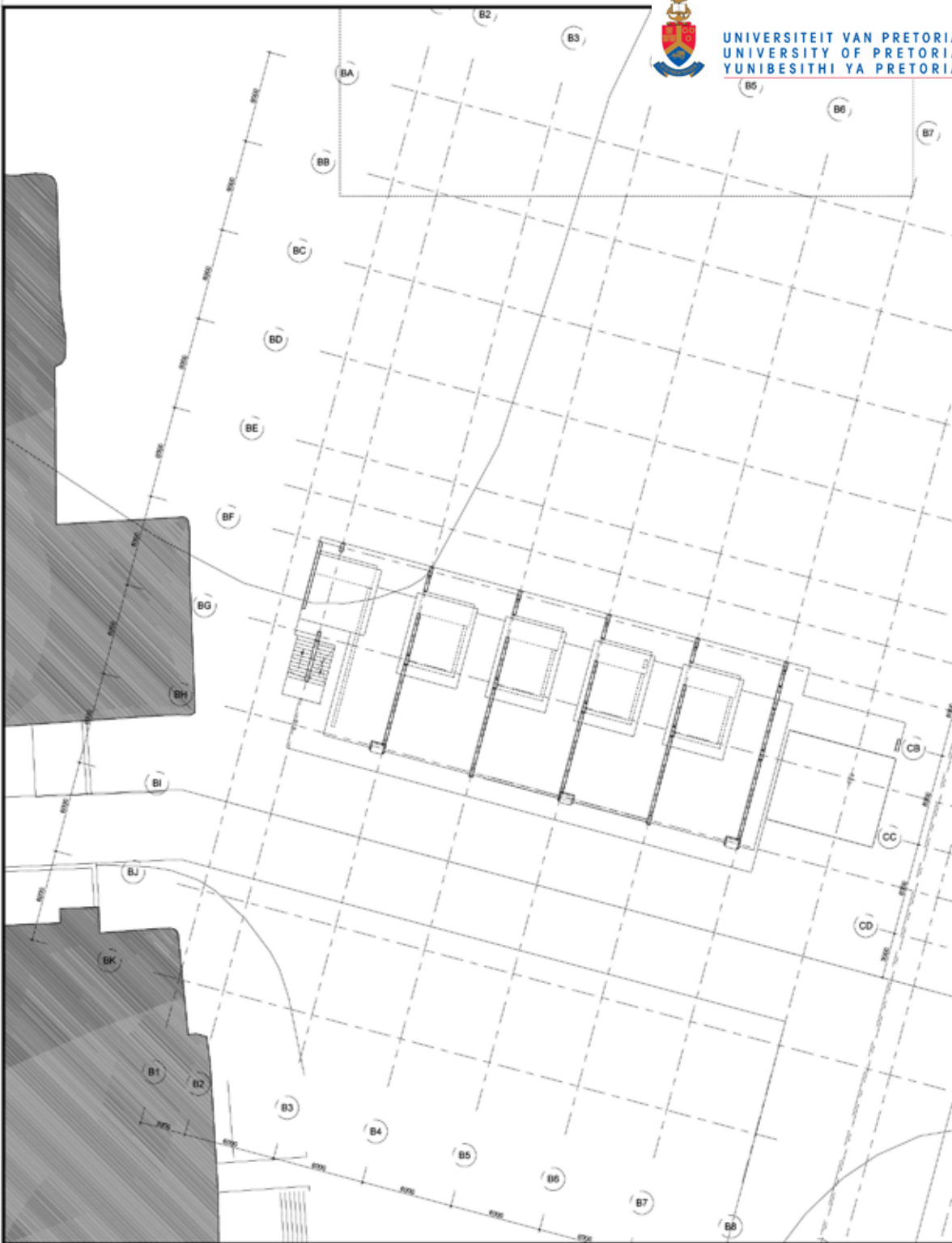
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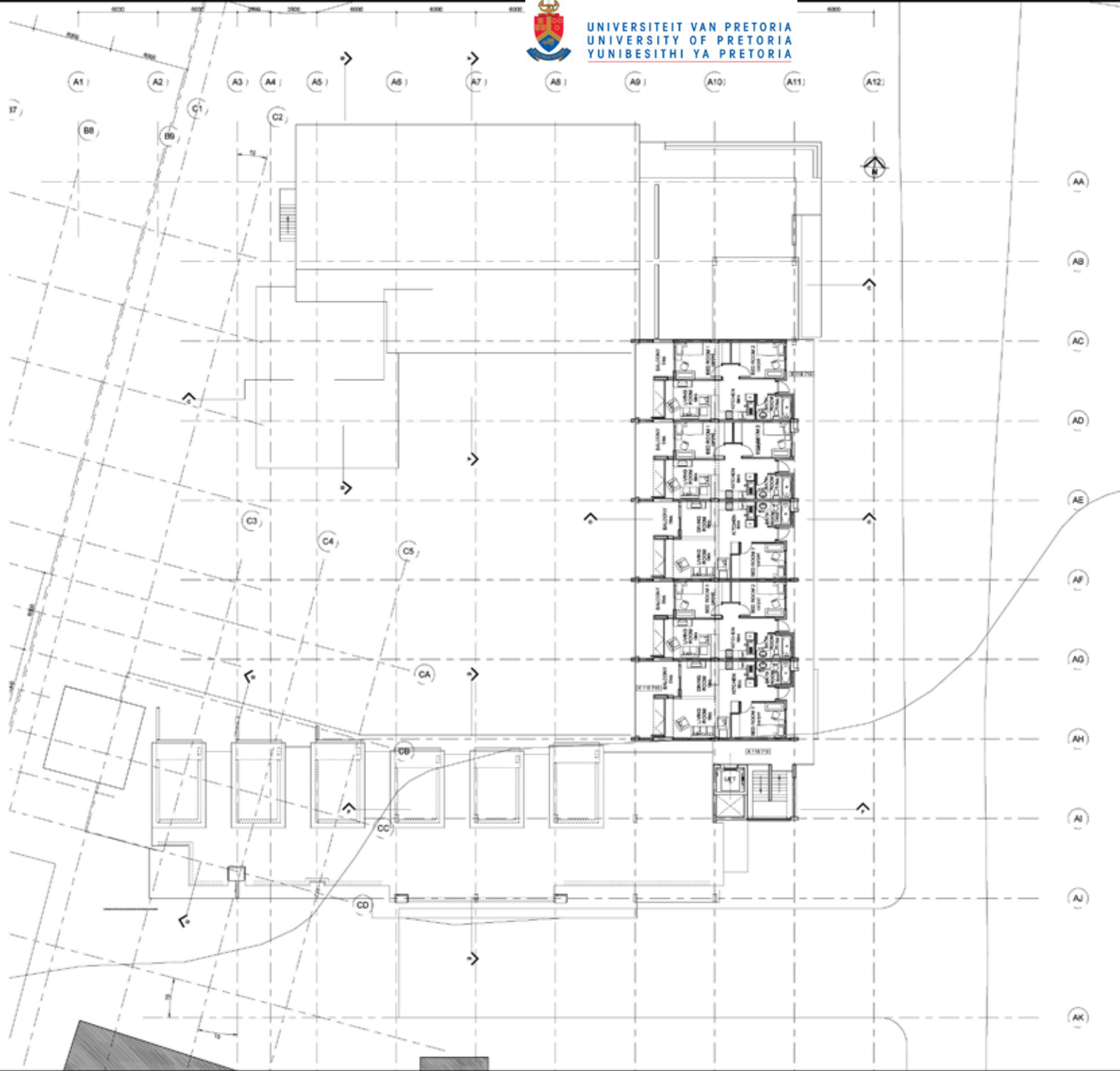
studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

**006**





BRIDGING THE GAP  
Interactive Architectural Incubator

**THIRD FLOOR PLAN**

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

**1 : 400**

datum  
date

**NOV 2008**

studente nommer  
student number

**20098465**

tekeningnummer  
drawing number

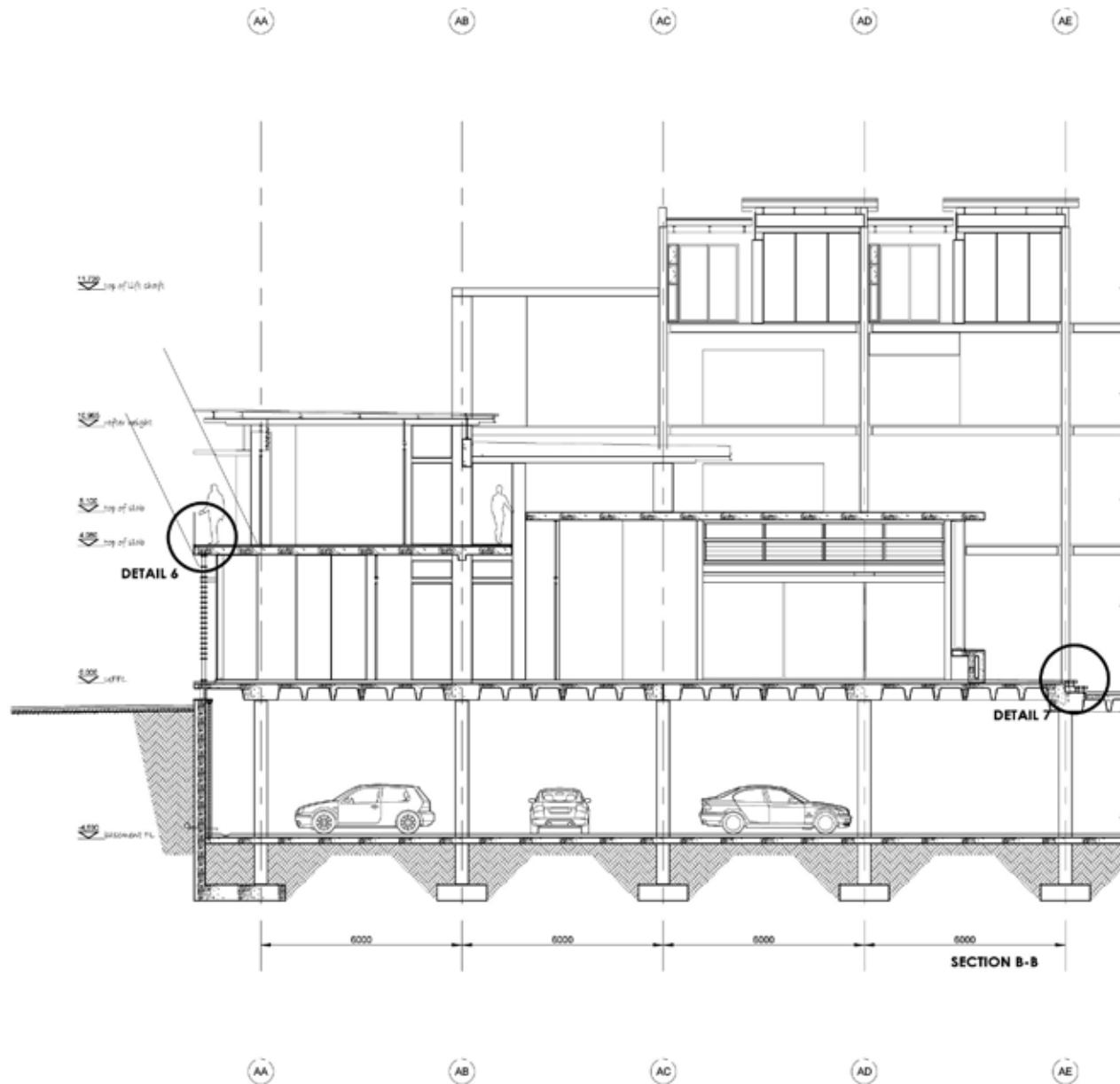
**006**











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SECTION B-B

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

**1 : 200**

datum  
date

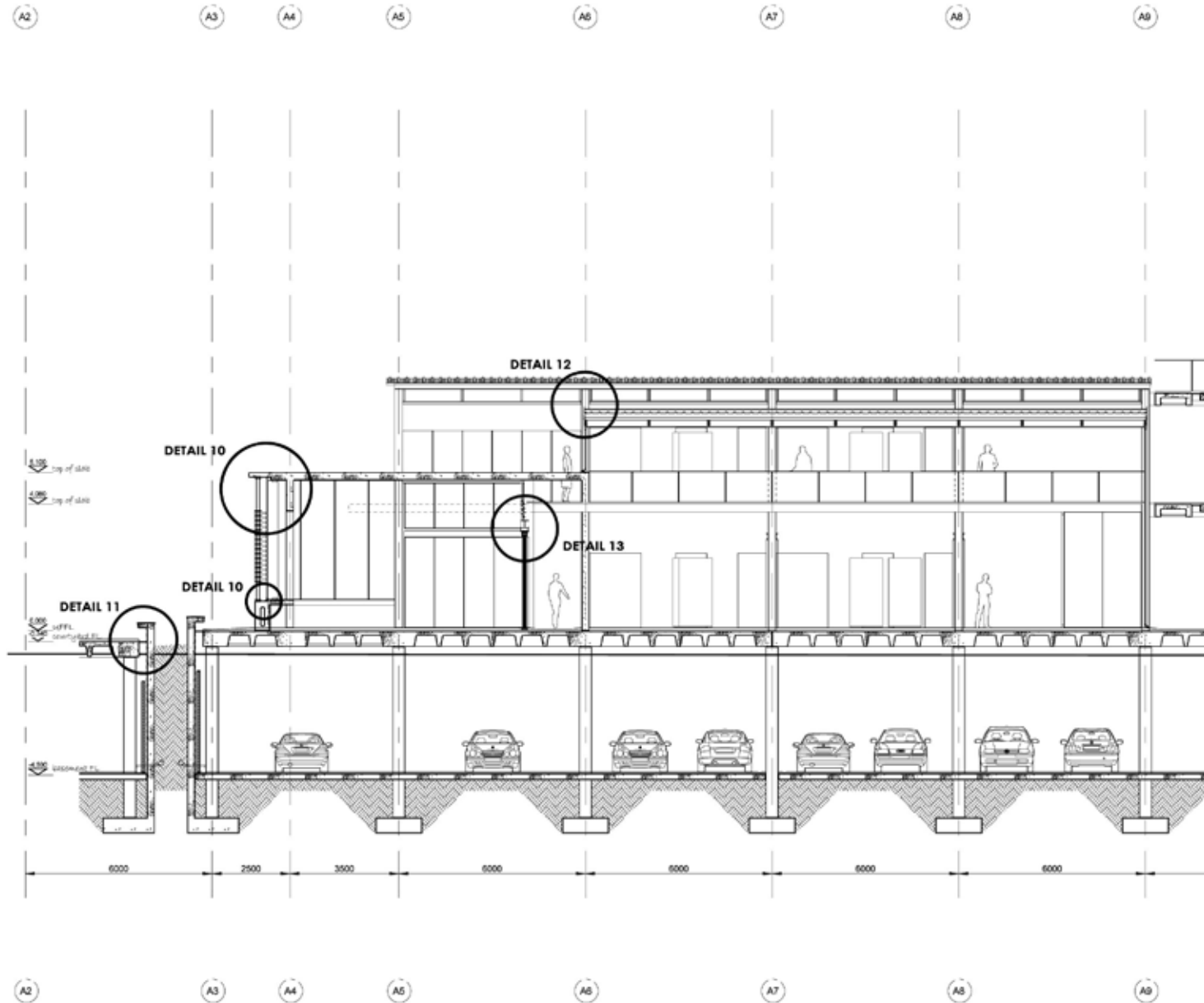
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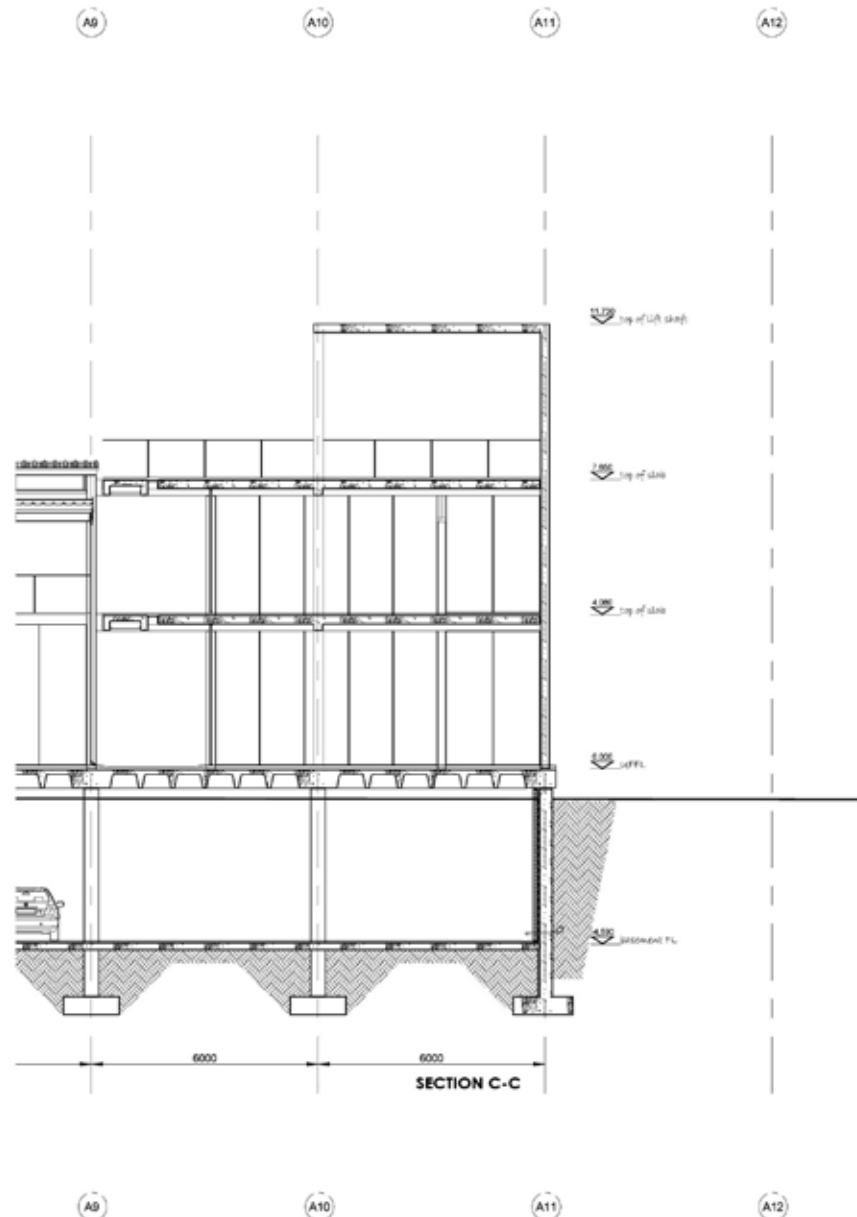
studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

**009**





BRIDGING THE GAP  
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SECTION C-C

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

**1 : 200**

datum  
date

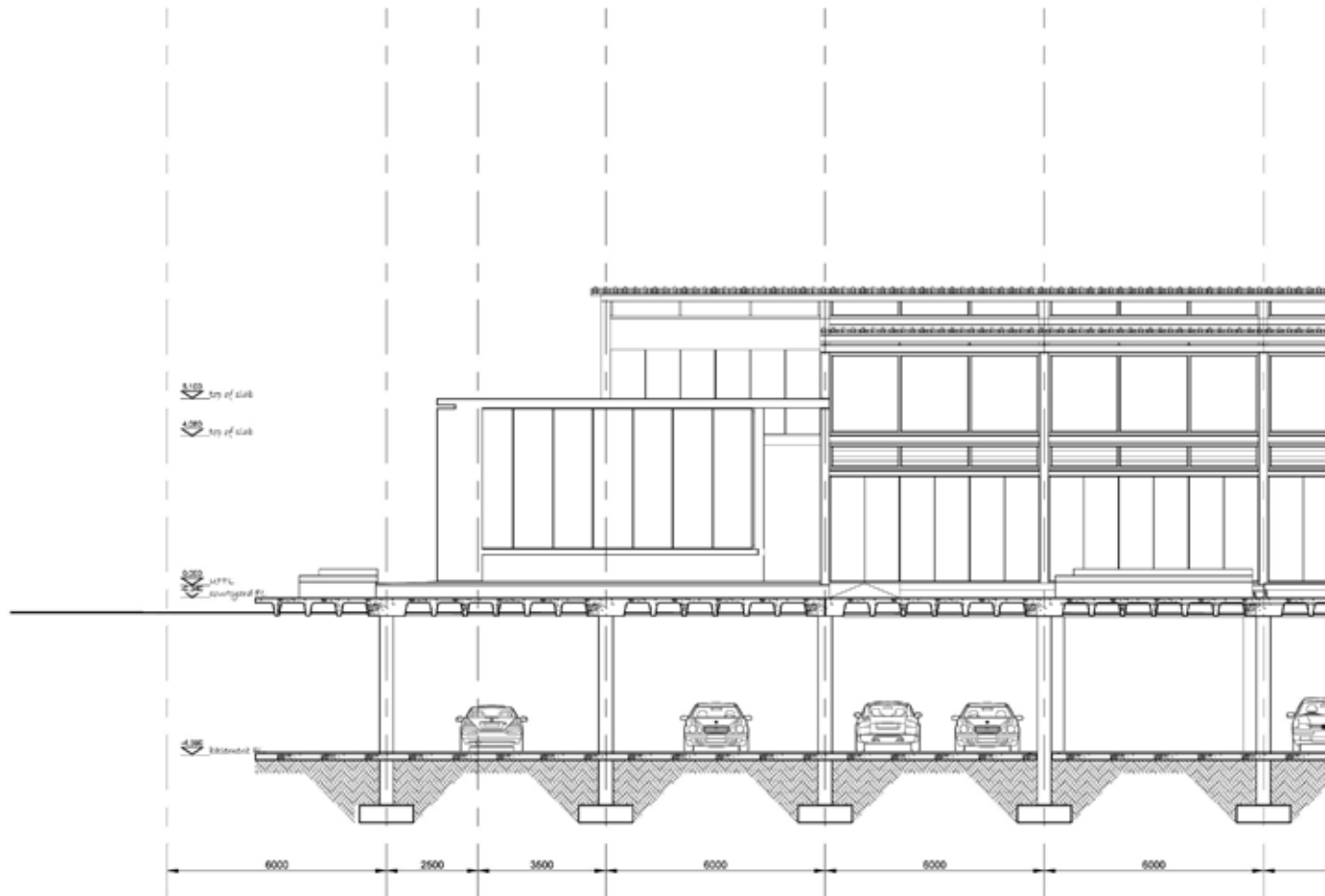
**NOV 2008**

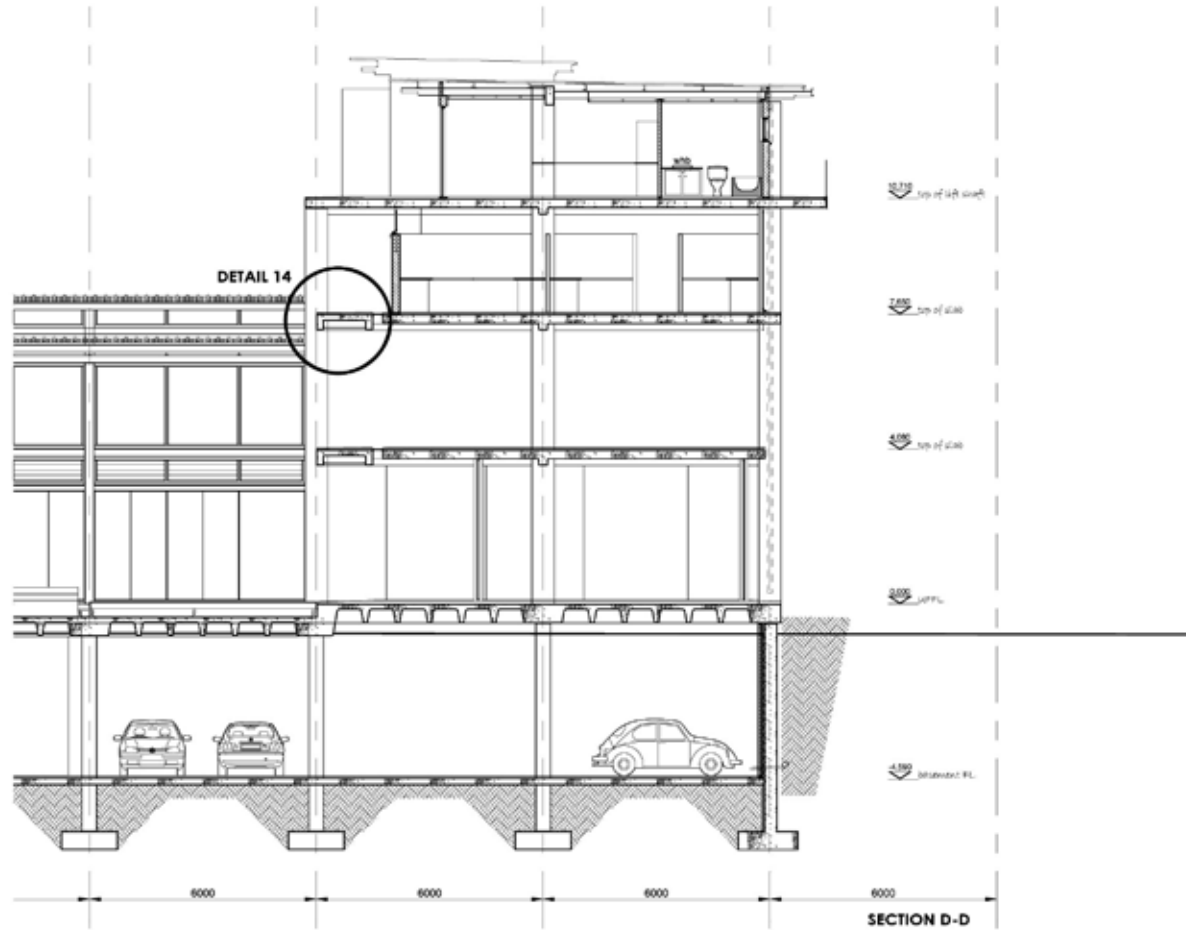
studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

**010**





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SECTION D-D

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

**1 : 200**

datum  
date

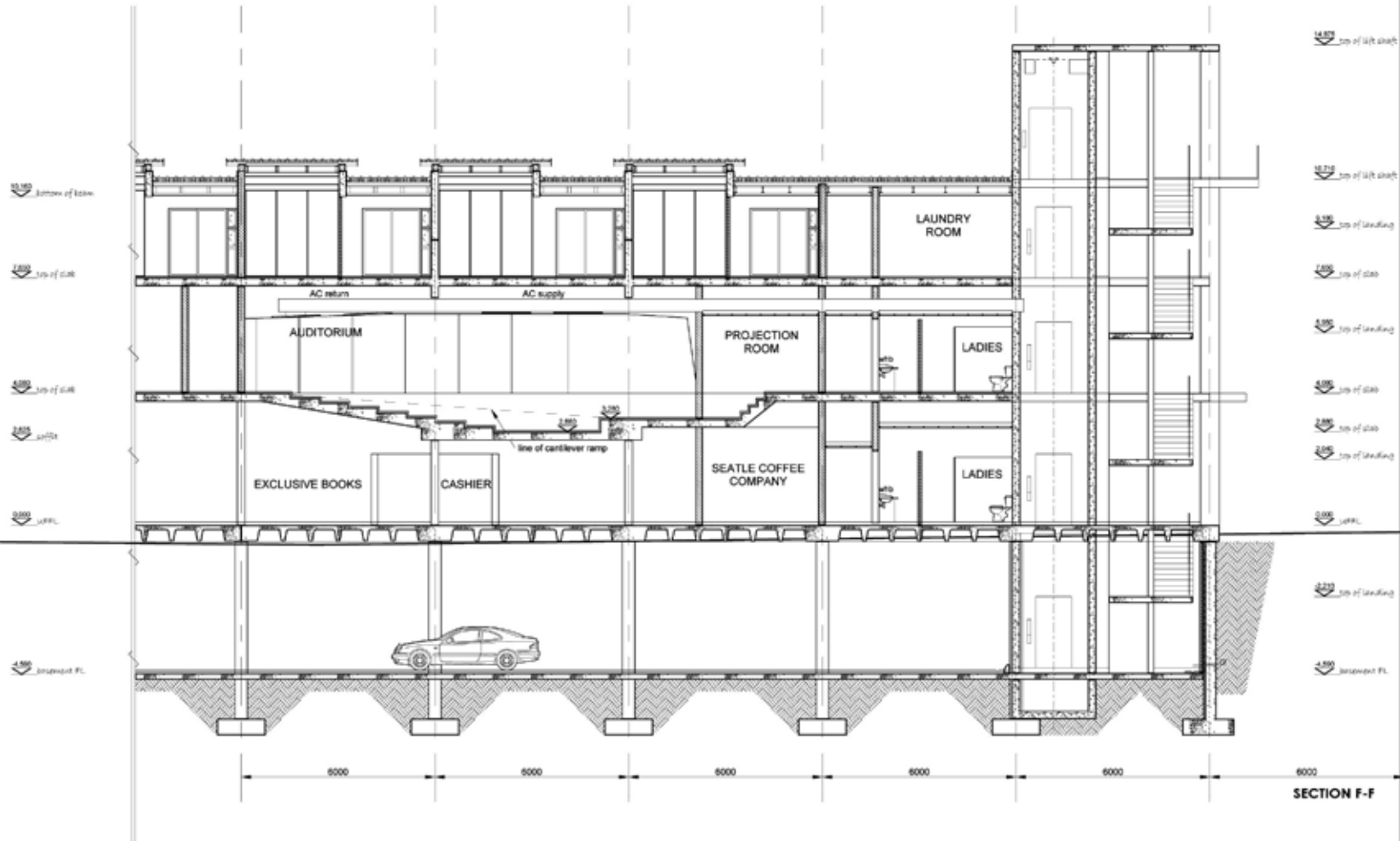
**NOV 2008**

studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

**011**



BRIDGING THE GAP  
Interactive Architectural Incubator

SECTION F-F

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

**1 : 200**

datum  
date

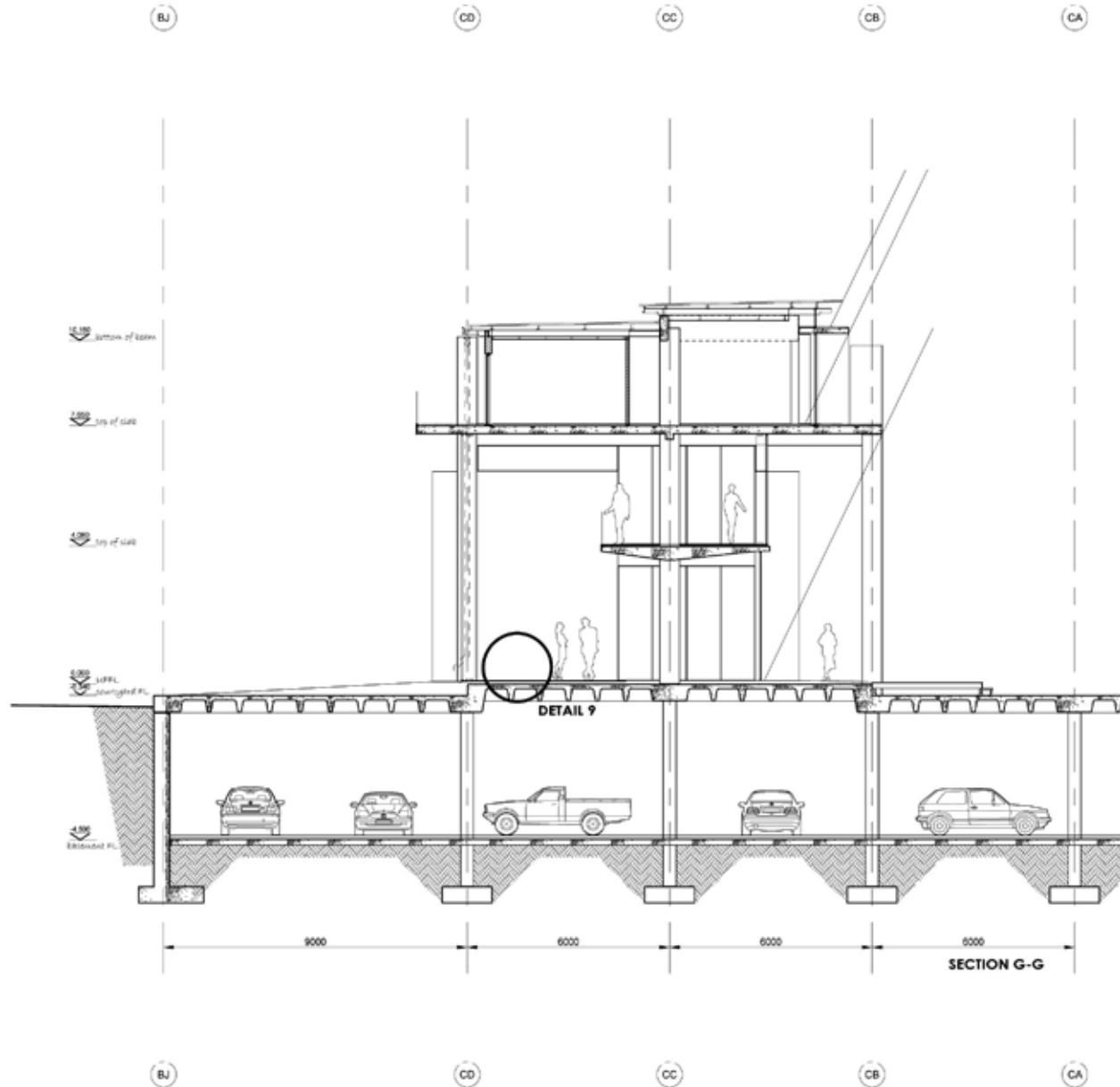
**NOV 2008**

studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

**012**



BRIDGING THE GAP  
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SECTION G-G

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

**1 : 200**

datum  
date

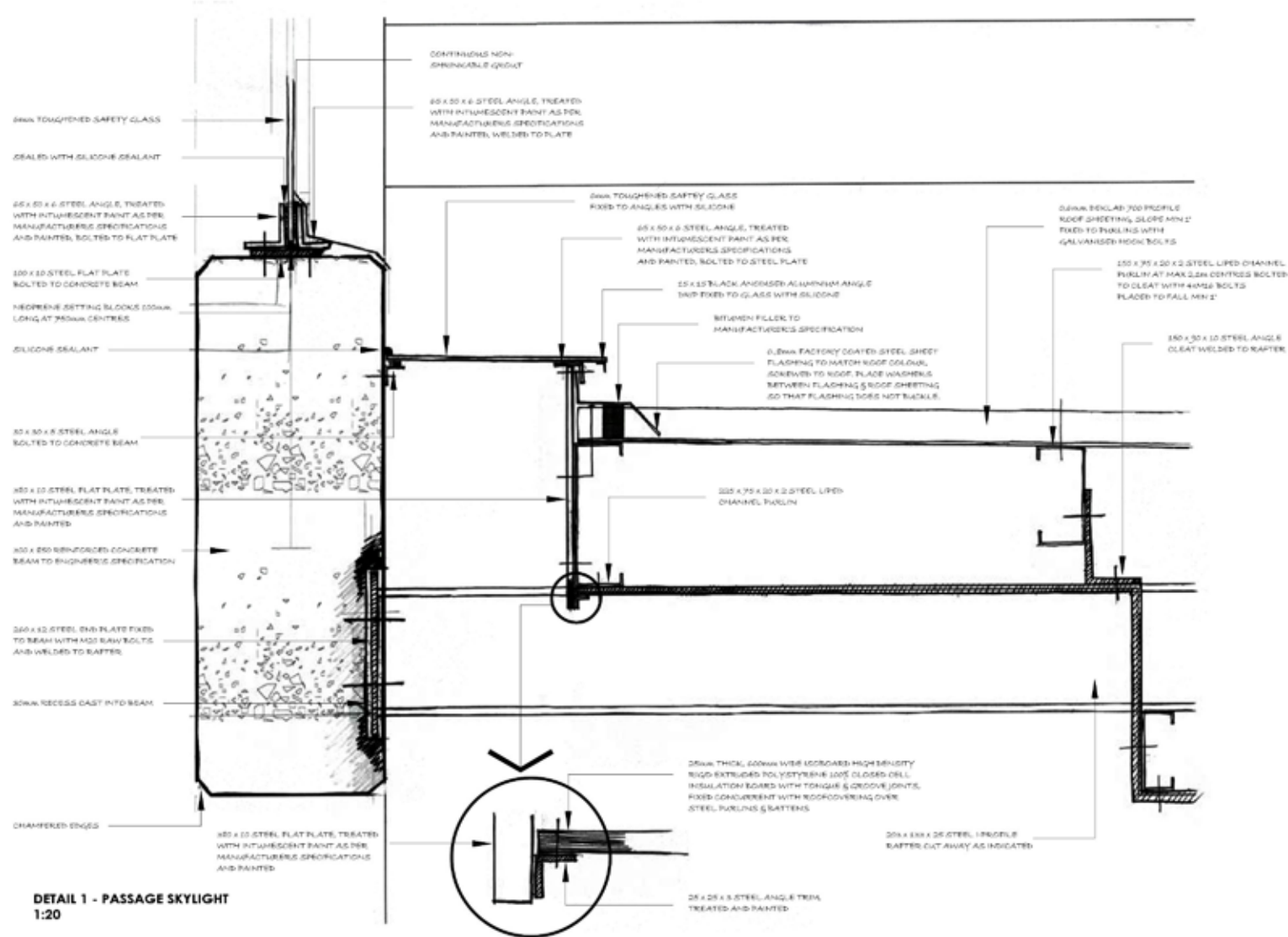
**NOV 2008**

studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

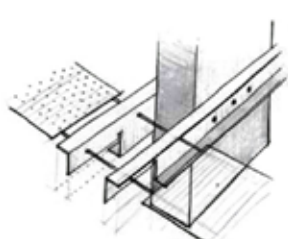
**013**



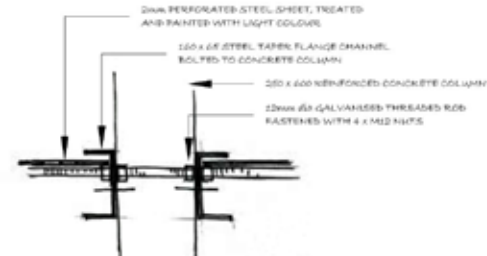
DETAIL 1 - PASSAGE SKYLIGHT  
1:20



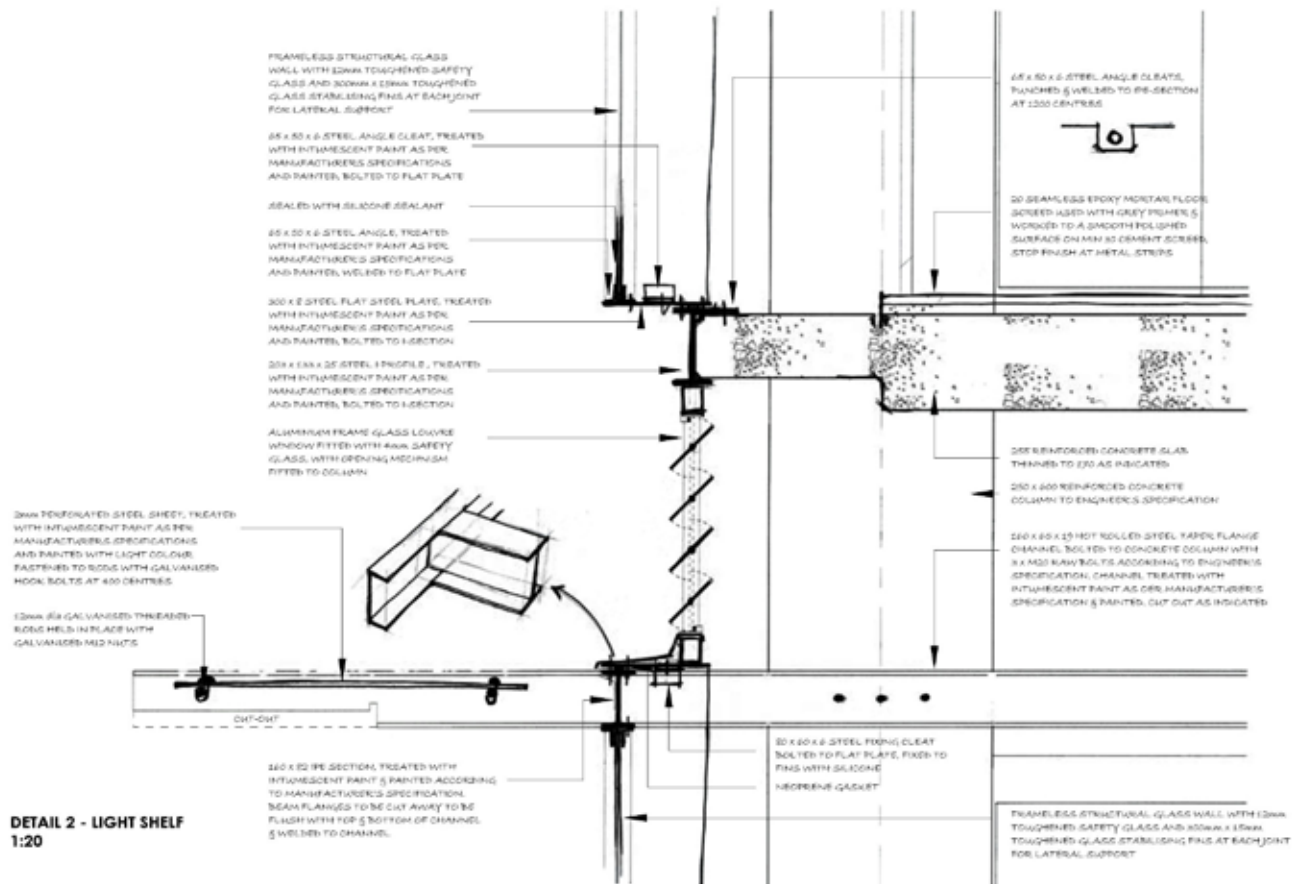
LIGHT SHELF & SUN SHADE CONCEPT



PERSPECTIVE - CHANNEL LIGHT SHELF



ELEVATION - CHANNEL LIGHT SHELF



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DETAILS 1 & 2

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

1 : 20

datum  
date

**NOV 2008**

studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

**014**



0.2mm FACTORY COATED STEEL SHEET  
FLASHING TO MATCH ROOF COLOUR,  
JOBWREN TO ROOF, PLACE WASHERS  
BETWEEN FLASHING & ROOF SHEETING  
SO THAT FLASHING DOES NOT BACKLIE.

12R x 75 x 20 x 2 STEEL LIPED CHANNEL BURLIN  
AT MAX 25mm CENTRES BOLTED TO CLEAT WITH  
RIBBED BOLTS PLACED TO FALL, MIN 1" RIGID TO  
BURLINS WITH HDGK BOLTS

12R x 75 x 6 STEEL ANGLE  
CLEAT WELDED TO RAFTER

12R x 75 x 6 STEEL ANGLE  
WELDED TO RAFTER

0.2mm BENG LAB 700 PEOPLE  
ROOF SHEETING, SLOPE MIN 1°

200 x 100 STEEL IPE SECTION RAFTER  
CUT AWAY AS INDICATED, TREATED  
WITH INTUMESCENT PAINT AS PER  
MANUFACTURERS SPECIFICATIONS,  
PAINTED & WELDED TO CHANNEL

150 x 70 x 22 TANK FLANGE CHANNEL TRIM,  
TREATED WITH INTUMESCENT PAINT AS PER  
MANUFACTURERS SPECIFICATIONS,  
PAINTED & WELDED TO ANGLE

65 x 50 x 6 STEEL ANGLE, TREATED  
WITH INTUMESCENT PAINT AS PER  
MANUFACTURERS SPECIFICATIONS,  
PAINTED & WELDED TO CHANNEL

65 x 50 x 6 STEEL ANGLE  
BOLTED TO ANGLE

6mm TONIGHTED SAFETY GLASS

SEALED WITH SILICONE SEALANT

CONTRACTORS NON-SHRINKABLE GROUT

65 x 50 x 6 STEEL ANGLE, TREATED  
WITH INTUMESCENT PAINT AS PER  
MANUFACTURERS SPECIFICATIONS  
AND PAINTED, BOLTED TO CONCRETE

35 x 30 x 5 STEEL ANGLE, TREATED  
WITH INTUMESCENT PAINT AS PER  
MANUFACTURERS SPECIFICATIONS  
AND PAINTED, BOLTED TO CONCRETE

NEOPRENE SETTING BLOCKS 600mm  
LONG AT 750mm CENTRES

CEMENT SCREEN MIN 30  
LAD TO FALL 1/70

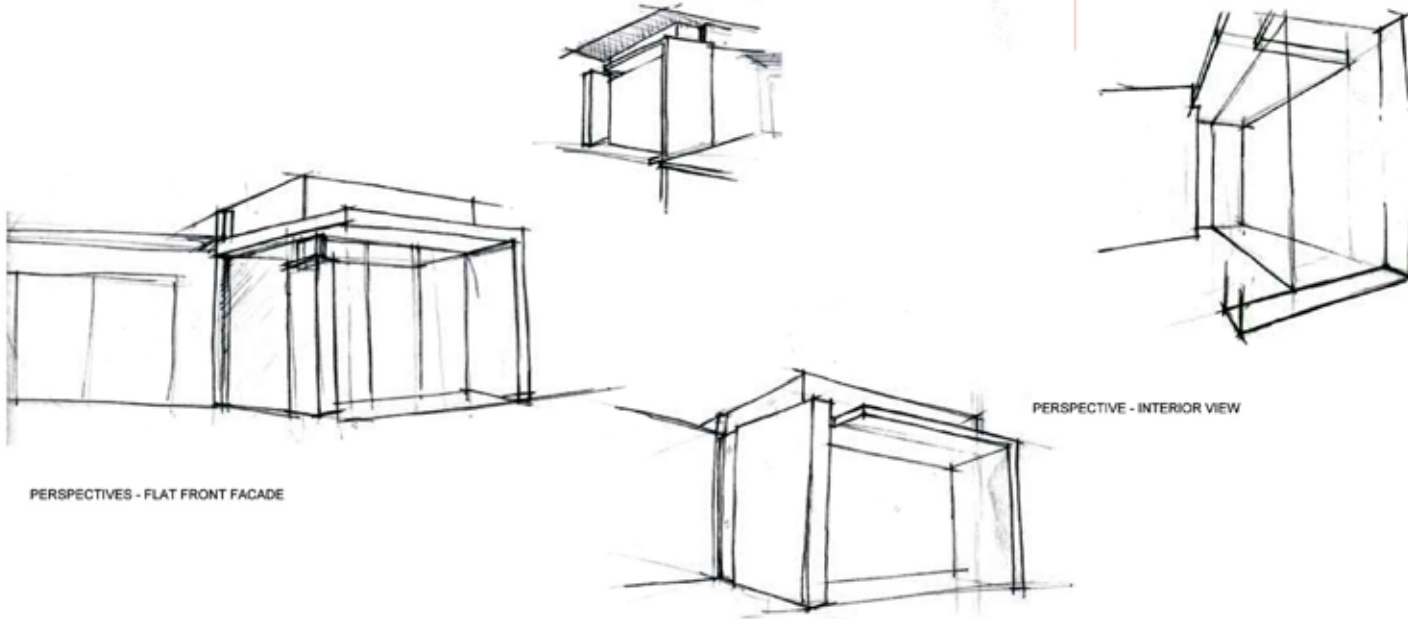
170 x 1500 REINFORCED  
CONCRETE SLAB, STEPPED  
60mm TO INTERIOR

20mm DRIP JOINT

SLIBING STACKING DOORS

REINFORCED CONCRETE  
BEAM ACCORDING TO  
ENGINEER'S SPECIFICATION

DETAIL 3 - LIGHT SHELF IN FLAT  
1:20





600mm SMC LAB 700 PROFILE  
ROOF SHEETING, SLOPE 4MIN/1"  
FIXED TO PURLINS WITH  
GALVANISED HOOK BOLTS

50 x 100 x 20 x 8 COLD FORMED  
STEEL LIPPED CHANNEL PURLINS  
BOLTED TO RAFTER

300 x 100 STEEL IPE SECTION RAFTER  
CUT AWAY AS INDICATED, TREATED  
WITH INTUMESCENT PAINT AS PER  
MANUFACTURERS SPECIFICATIONS,  
PAINTED & WELDED TO CHANNEL

1 x 800 x 0,6 GALVANISED STEEL  
ITER, LAB TO FALL, MIN E200

200 x 95 x 25 TAPER FLANGE CHANNEL TRIM,  
TREATED WITH INTUMESCENT PAINT AS PER  
MANUFACTURERS SPECIFICATIONS,  
PAINTED & WELDED TO RAFTER

750mm 60 x 0,6 GALVANISED STEEL  
SHEET RAIN WATER PIPE, FITTED INTO  
CAST PIPE IN COLUMN

CAST IRON FUNNEL TYPE RAINWATER OUTLET  
FIXED IN POSITION WITH 4 x M20 BOLTS

800mm 60 x 0,6 GALVANISED STEEL SHEET  
RAIN WATER PIPE CAST INTO COLUMN

200 x 600 REINFORCED CONCRETE  
COLUMN TO ENGINEERS SPECIFICATION

DETAIL 4 - ROOF END & GUTTER  
1:20

STRUCTURAL GLASS FINS

ENAMELLESS STRUCTURAL GLASS  
WALL WITH 1200mm TONGUED SAFETY  
GLASS AND 300mm x 150mm TONGUED  
GLASS STABILISING TIES AT EACH JOINT  
FOR LATERAL SUPPORT

80 x 80 x 8 STEEL FIXING PLATE  
BOLTED TO CONCRETE AND FIXED  
TO FINISH WITH SILICONE

20 SEAMLESS EPOXY MORTAR FLOOR  
SCREEN USED WITH GREY PRIMER &  
WORKED TO A SMOOTH POLISHED  
SURFACE ON MIN 30 CEMENT SCREEN,  
STOP FINISH AT METAL STURD

800 REINFORCED CONCRETE SLAB  
TO ENGINEERS SPECIFICATION

400mm 60 REINFORCED  
CONCRETE COLUMN ACCORDING  
TO ENGINEERS SPECIFICATION

80 x 80 x 8 STEEL ANGLE, TREATED  
WITH INTUMESCENT PAINT AS PER  
MANUFACTURERS SPECIFICATIONS  
AND PAINTED, BOLTED TO CONCRETE

600 x 600 x 8 STEEL ANGLE, TREATED  
WITH INTUMESCENT PAINT AS PER  
MANUFACTURERS SPECIFICATIONS  
AND PAINTED, BOLTED TO CONCRETE

CEMENT SKEED  
LAB TO FALL

CEMENT SKEED  
LAB TO FALL

CHAMFERED EDGE

50mm BRP JOINT

DETAIL 5 - COFFER SLAB EDGE  
1:20

1200mm TONGUED SAFETY GLASS  
BALUSTRADE ACCORDING TO SLAB

5 - 10mm SILICONE TOPPING

CONTINUOUS NON-SPRINKABLE GROUT

40 x 115 GALVANISED STEEL CHANNEL  
THE LENGTH OF THE BALUSTRADE

NEOPRENE SETTING BLOCKS  
100mm LONG AT 300 CENTRES

250 x 8 STEEL PLATE, TREATED WITH INTUMESCENT  
& PAINTED TO MANUFACTURERS SPECIFICATION,  
FIXED TO FLOOR SLAB WITH M20 BOLT &  
EXTENDED 300mm BELOW SLAB TO FORM DRIP

80 x 80 x 8 UNEQUAL STEEL ANGLE WITH 50mm  
FLAT BAR EXTENSION, TREATED WITH INTUMESCENT  
PAINT & PAINTED TO MANUFACTURERS  
SPECIFICATION, BOLTED TO CONCRETE

20 SEAMLESS EPOXY MORTAR FLOOR SCREEN USED WITH  
GREY PRIMER & WORKED TO A SMOOTH EXTERIOR SURFACE  
ON MIN 30 CEMENT SCREEN, STOP FINISH AT ANGLE

200 REINFORCED CONCRETE SLAB  
THINNED TO 120 AS INDICATED, TO  
ENGINEERS SPECIFICATION

100mm 60 STEEL ROUND ANCHOR

NEOPRENE GASKET

DETAIL 6 - BALUSTRADE  
1:20

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DETAILS 3, 4, 5, 6

naam  
name

CHRISTINE GOOSEN

skaal  
scale

1 : 20

datum  
date

NOV 2008

studente nommer  
student number

20098465

tekeningnommer  
drawing number

015



30 x 50 x 5 STEEL ANGLE ENDING TREATED WITH INTUMESCENT PAINT AS PER MANUFACTURERS SPECIFICATIONS AND PAINTED, FIXED TO CONCRETE WITH MASONRY NAILS

30 SEAMLESS EPOXY MORTAR FLOOR SCREED LAD WITH QUOTE NUMBER 5 WORKED TO A ROUGH EXTERIOR SURFACE ON MIN 40 CEMENT SCREED STOP FRESH AT ANGLE LAD ON DARK POLYURETHAN DAMP PROOF MEMBRANE (SAND)

IN-SITU CAST REINFORCED CONCRETE STEP

30 x 120 x 20 x 3 COLD FORMED STEEL UPRIG CHANNEL PURLIN TREATED WITH INTUMESCENT PAINT AS PER MANUFACTURERS SPECIFICATIONS AND PAINTED, BOLTED TO CONCRETE WITH M12 BOLTS AT 400 CENTRES

NEOPRENE GASKET

30 x 50 x 5 STEEL ANGLE WITH INTUMESCENT PAINT AS PER MANUFACTURERS SPE AND PAINTED, FIXED TO CONCRETE WITH MASONRY NAILS

300 x 75 PRE-CAST REINFORCED CONCRETE PLANK SLAB WITH CASTED HOLES, BOLTED TO CHANNEL WITH 2 x M12 BOLTS AT 400 CENTRES. HOLES TO BE FILLED WITH EPOXY

ELECTRICAL CONDUIT CAST INTO PLANK

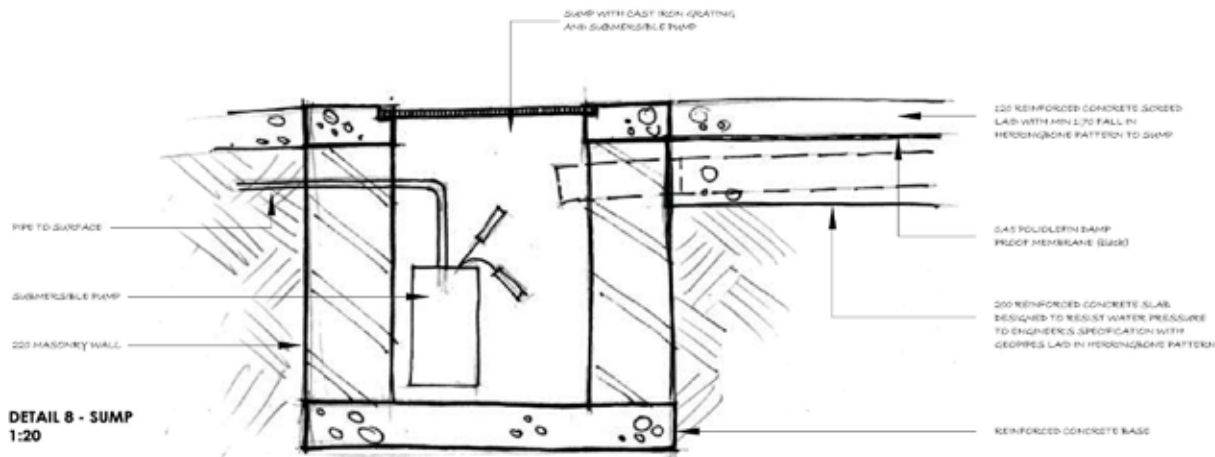
EXTERIOR WATERPROOF LIGHTING TUBE, FITTER ACCORDING TO ELECTRICIAN

CORRUG STEEL PAVING LAD ON CEMENT SCREED LAD TO FALL, MIN 1:70 ON 0.45 POLYURETHAN DAMP PROOF MEMBRANE (SAND)

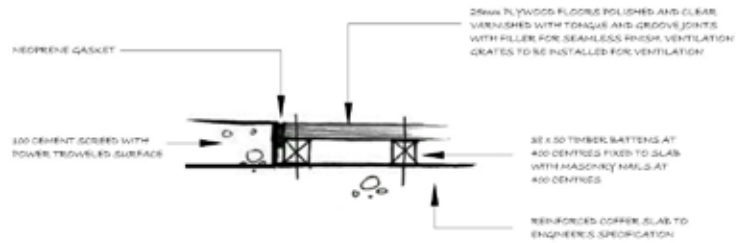
REINFORCED COPPER SLAB TO ENGINEERS SPECIFICATION

CAST IRON MENTIS GRID OVER RAIN WATER CHANNEL

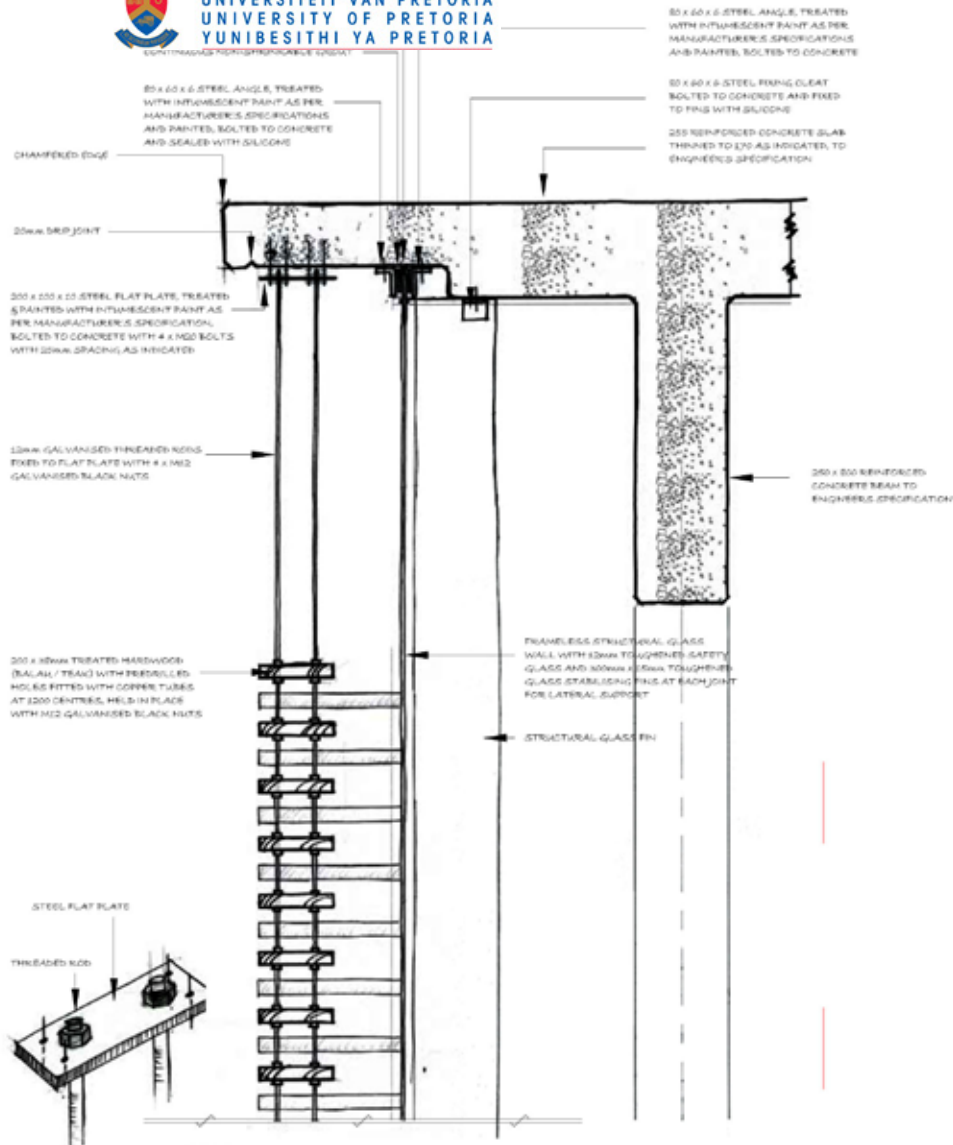
DETAIL 7 - EXTERNAL STAIRS  
1:20



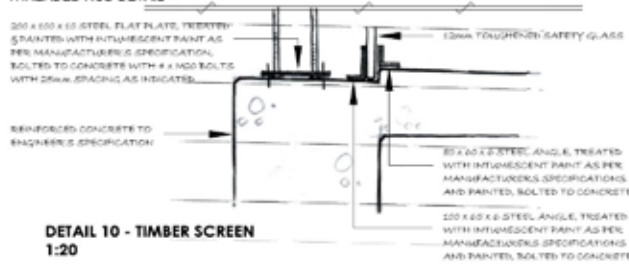
DETAIL 8 - SUMP  
1:20



DETAIL 9 - EXHIBITION FLOOR  
1:20



STEEL PLATE & THREADED ROD DETAIL



DETAIL 10 - TIMBER SCREEN  
1:20

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DETAILS 7, 8, 9, 10

naam  
name  
**CHRISTINE GOOSEN**  
skaal  
scale

1 : 20

datum  
date

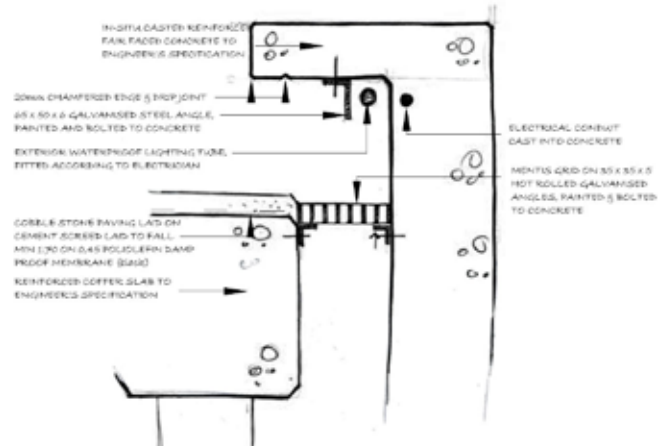
NOV 2008

studente nommer  
student number

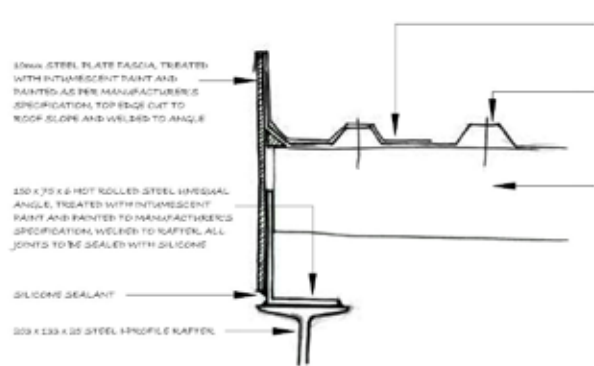
20098465

tekeningnommer  
drawing number

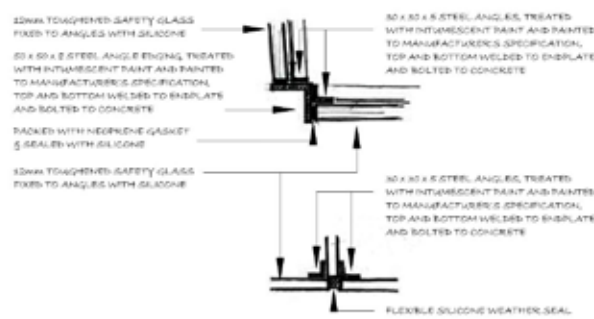
016



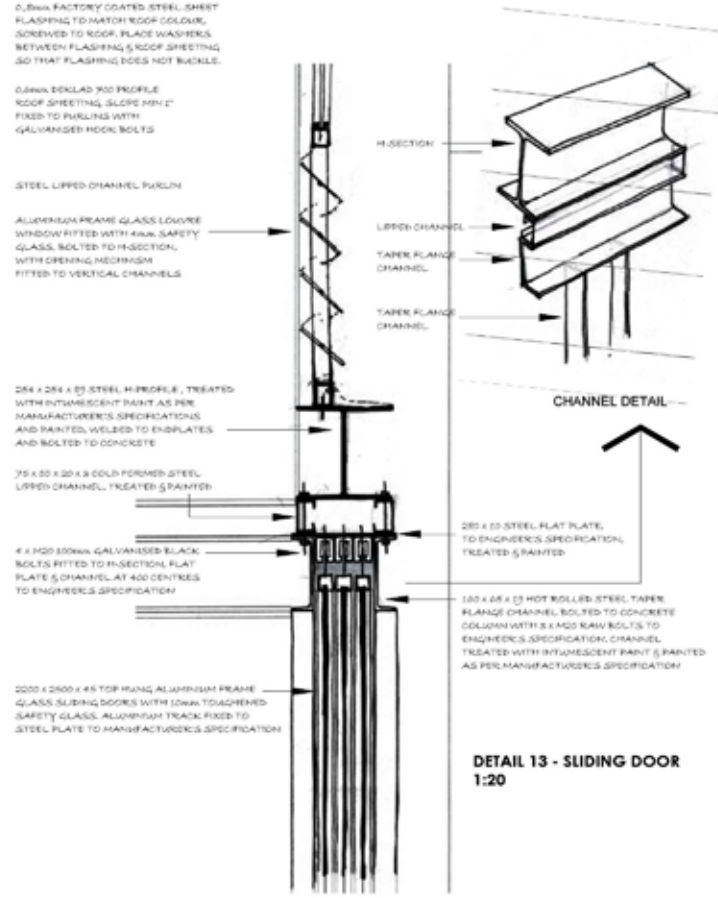
**DETAIL 11 - PLANTER SEATING**  
1:20



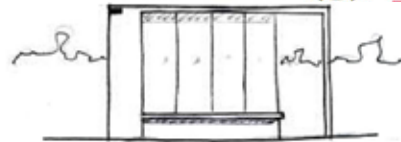
**DETAIL 12 - ROOF END**  
1:10



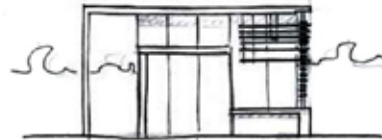
**STRUCTURAL GLASS CORNER & JOINT DETAIL**



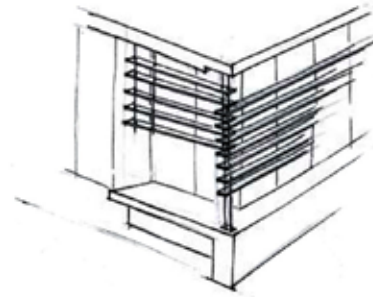
**DETAIL 13 - SLIDING DOOR**  
1:20



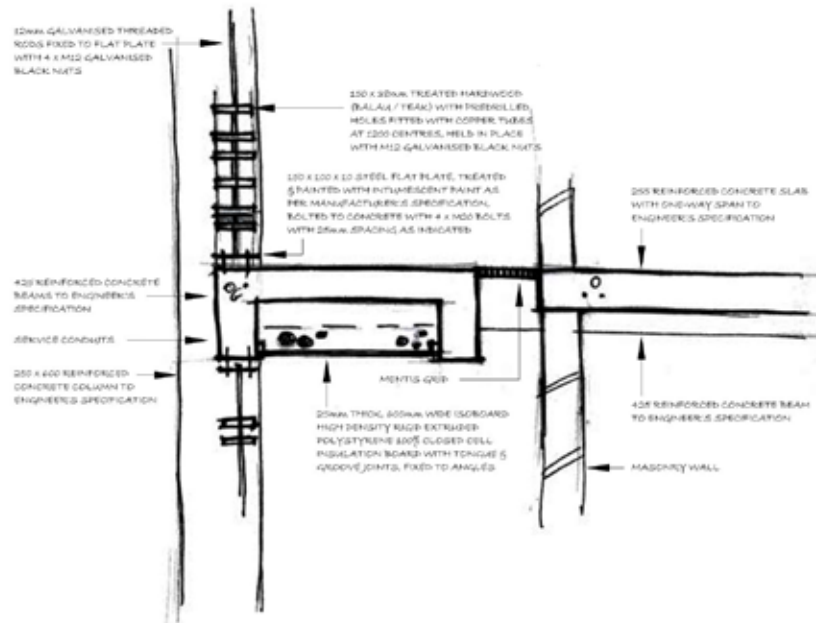
SOUTH ELEVATION - WORKSHOP



NORTH ELEVATION - WORKSHOP



PERSPECTIVE - WORKSHOP NORTH-WEST CORNER



DETAIL 14 - PASSAGE

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DETAILS 11, 12, 13, 14

naam  
name

**CHRISTINE GOOSEN**

skaal  
scale

1 : 20

datum  
date

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studente nommer  
student number

**20098465**

tekeningnommer  
drawing number

**017**



north elevation



south elevation



west section - elevation



east elevation



west elevation