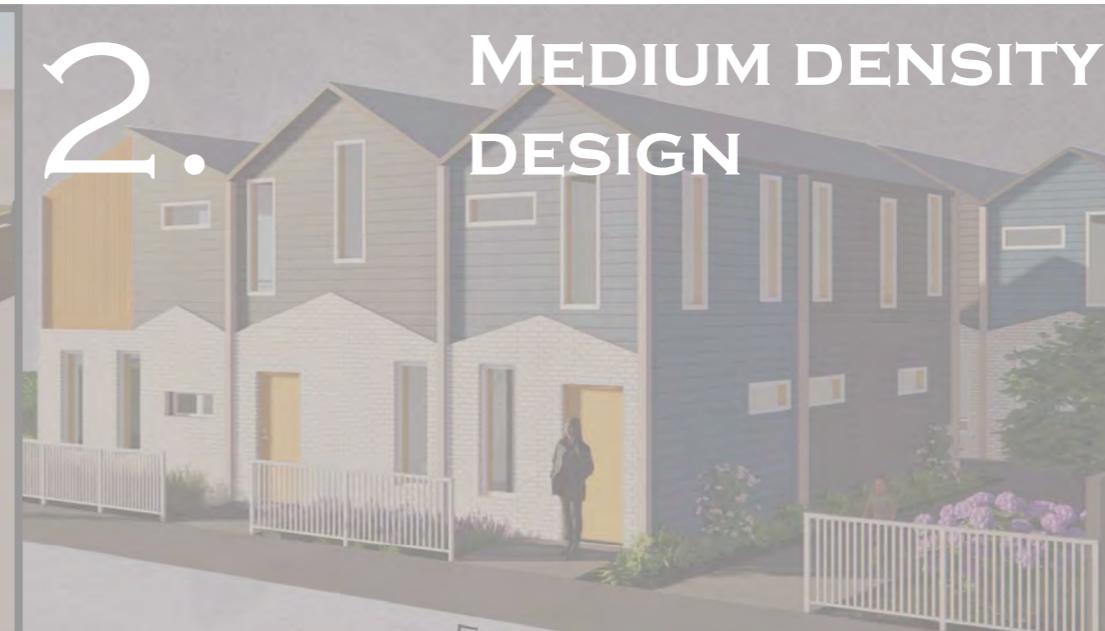


# ARCHITECTURAL DESIGN AND DRAFTING PORTFOLIO - 2022



JESS BEALE  
022 099 0034  
JESSLBEALE@GMAIL.COM  
JESSBEALE.NZ

# 1. GOUGH STREET WORKSHOP

NOVEMBER 2022, REVIT, ENSCAPE.

GOUGH STREET WORKSHOP WAS AN EXERCISE IN ACCURATELY MODELLING A STEEL FRAMED BUILDING USING REVIT.

THE INTERIOR SPACES WERE DESIGNED TO THE FOLLOWING BRIEF:

- SPACES FOR A WORKSHOP, STAFF KITCHEN, ACCESSIBLE TOILET, OFFICE AND RECEPTION.
- STAIRS AND A LIFT TO A MEZZANINE FLOOR.

THE SITE WAS DESIGNED TO HAVE:

- CAR PARKING, INCLUDING AT LEAST ONE ACCESSIBLE PARK.
- SAFE PATHS FOR PEDESTRIANS AND CYCLISTS.
- HEAVY TRUCK ACCESS TO THE WORKSHOP TRUCK DOOR.

THE SITE IS AT 6 GOUGH STREET IN SEAVIEW.



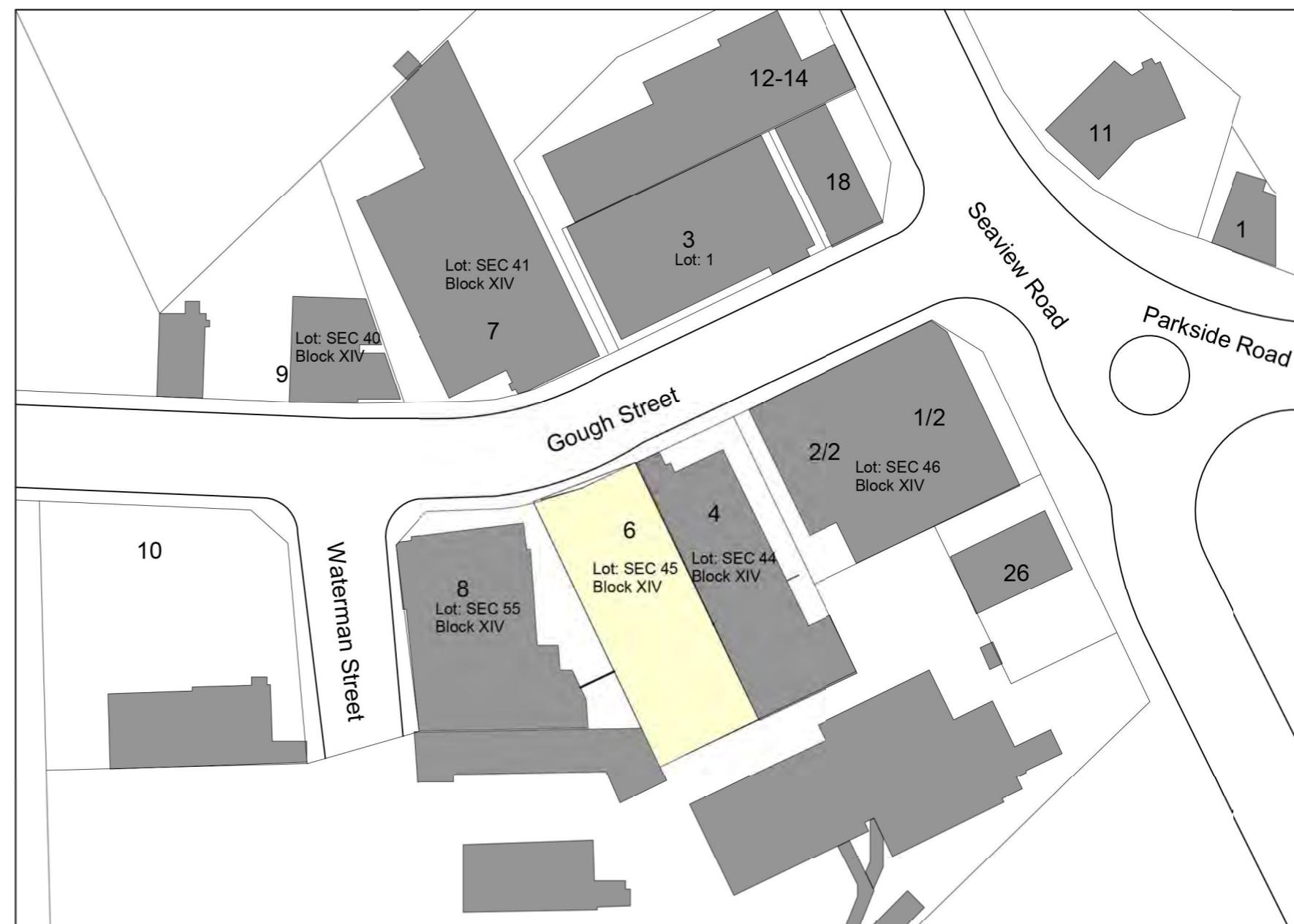
LOCATION PLAN WITH SITE OUTLINED

IMAGE FROM HCC MAPS: MAPS.HUTTCITY.GOV.TZ

1 : 2000 @ A3



EXTERIOR RENDER LOOKING NORTHWEST

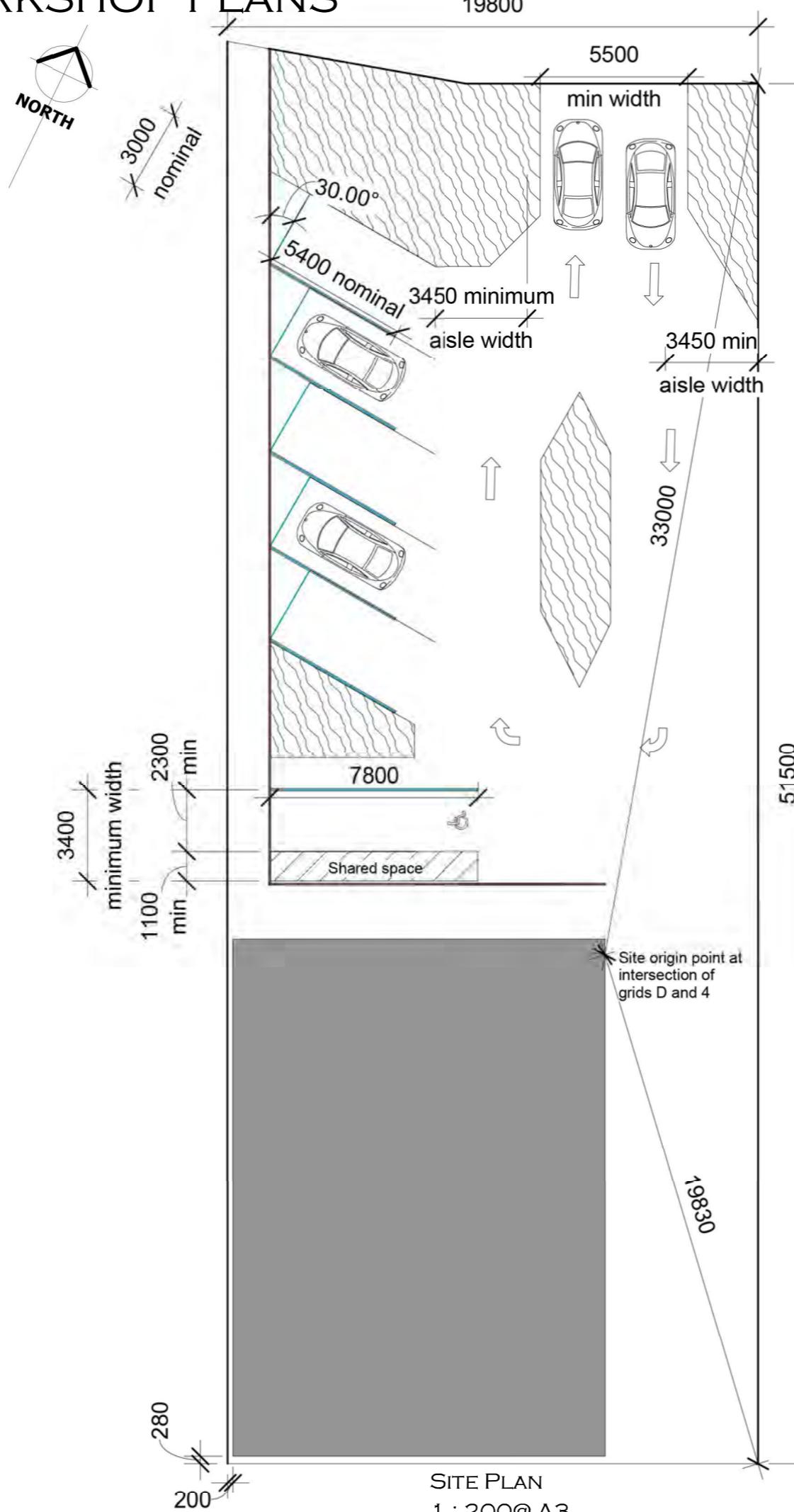


LOCATION PLAN

1 : 1000@ A3

# 1. GOUGH STREET WORKSHOP PLANS

NOVEMBER 2022, REVIT.



## Notes

Address: 6 Gough Street Seaview Lower Hutt

Lot: SEC 45 Block XIV  
SO 24045

Lower Hutt City Council  
DP Zone: Special Business

Front yard: No requirement  
Side yards: No requirement  
Maximum height: 20 metres

Wind zone: Very high  
Earthquake zone: 3  
Exposure zone: C  
Climate zone: 2  
Wind region: W  
Rainfall intensity: 60-70mm

Site Area: 1,057m<sup>2</sup>  
Current buildings on site: 782m<sup>2</sup>  
Proposed buildings on site: 268m<sup>2</sup>  
Total site coverage: 25%  
Maximum allowable coverage: 100%

Parking for 6 cars including one accessible parking space.

Car parking:  
Minimum parking bay dimensions:  
3000 wide x 5400 long.

Minimum accessible parking bay dimensions:  
2300 wide x 7800 long with 1100 wide shared space adjacent.

Aisle width minimum 3450mm  
Driveway width minimum 5500mm.

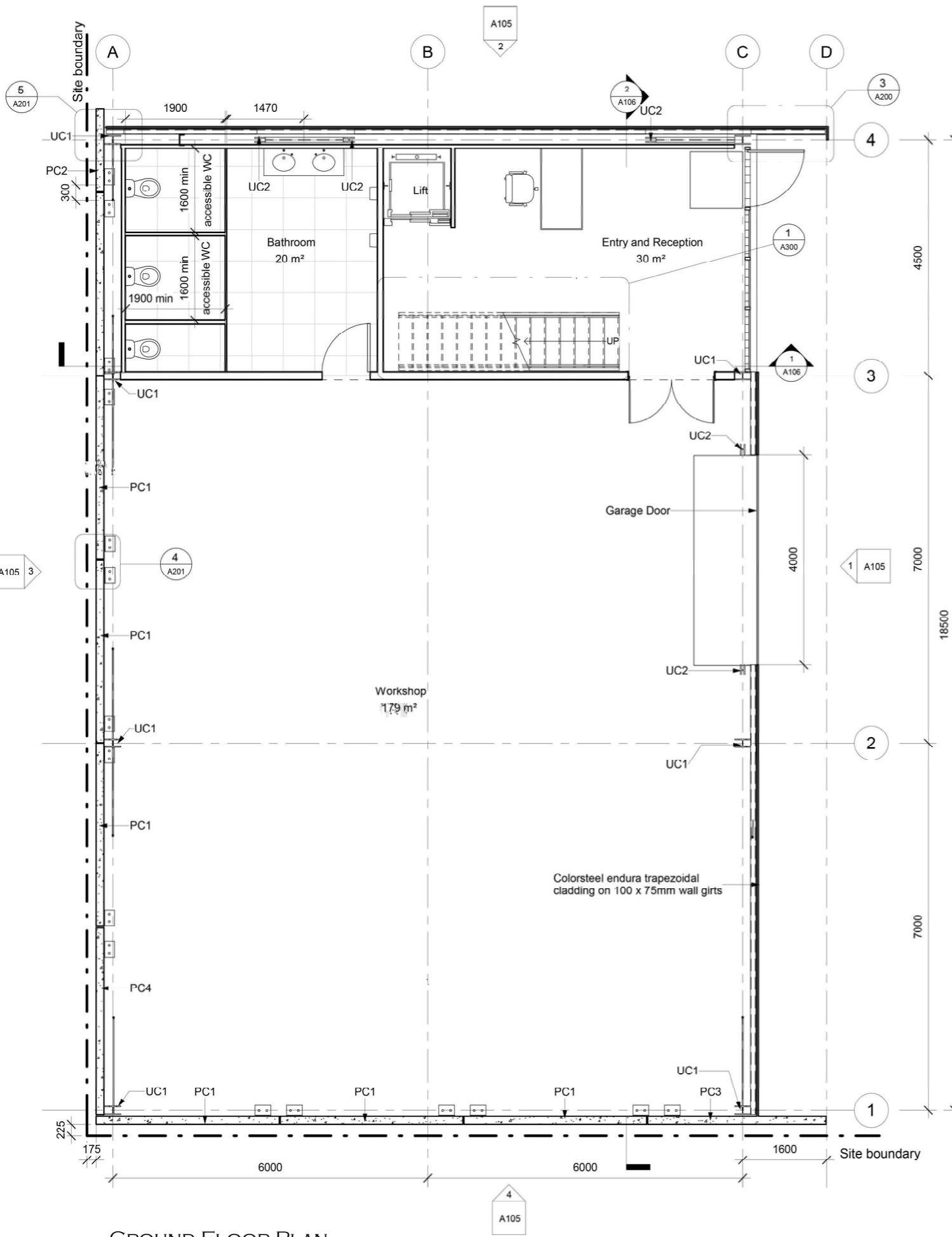
(NZS 2890 Part 1 and Part 6).



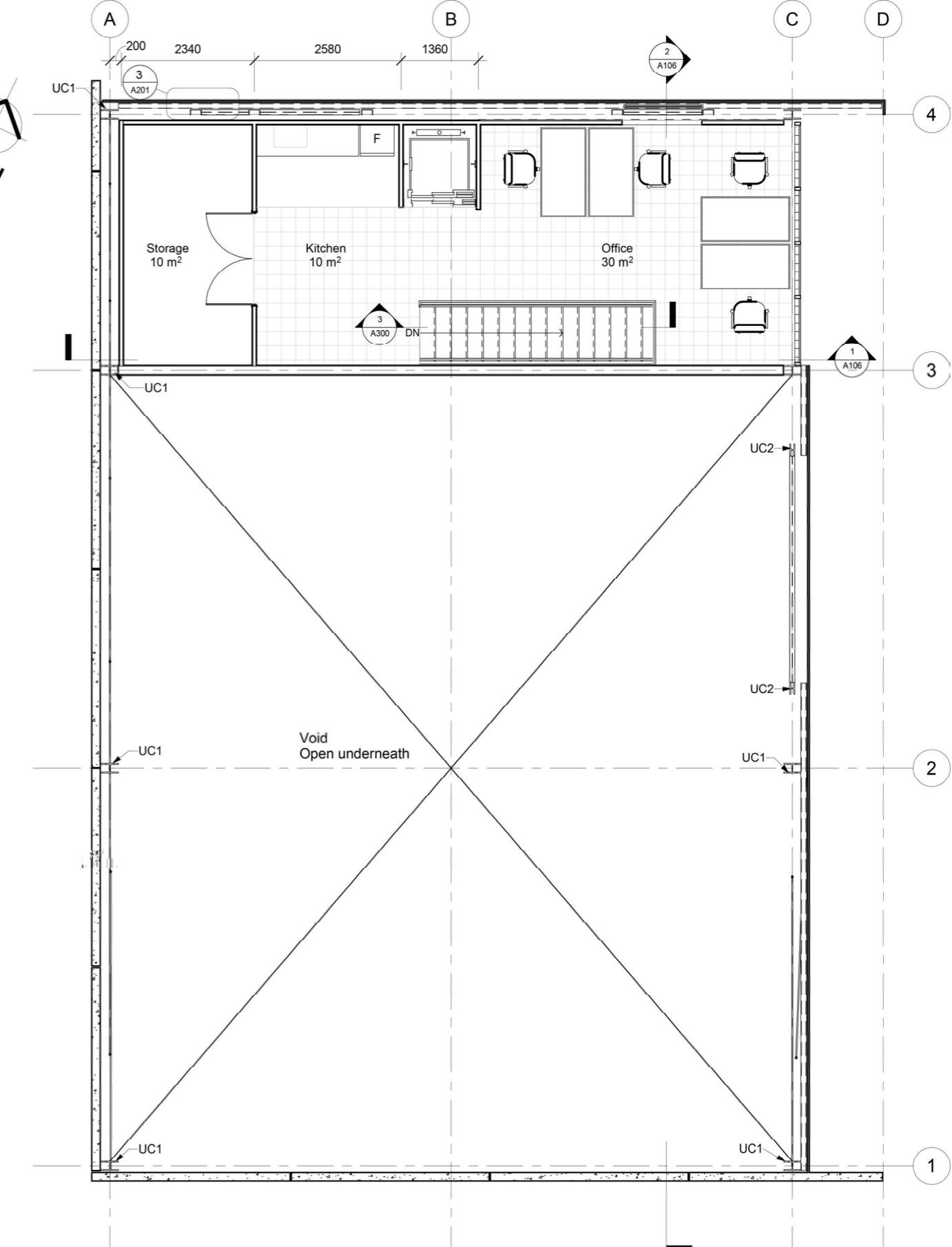
Hatch indicates areas of planting.

# 1. GOUGH STREET WORKSHOP PLANS

NOVEMBER 2022, REVIT.

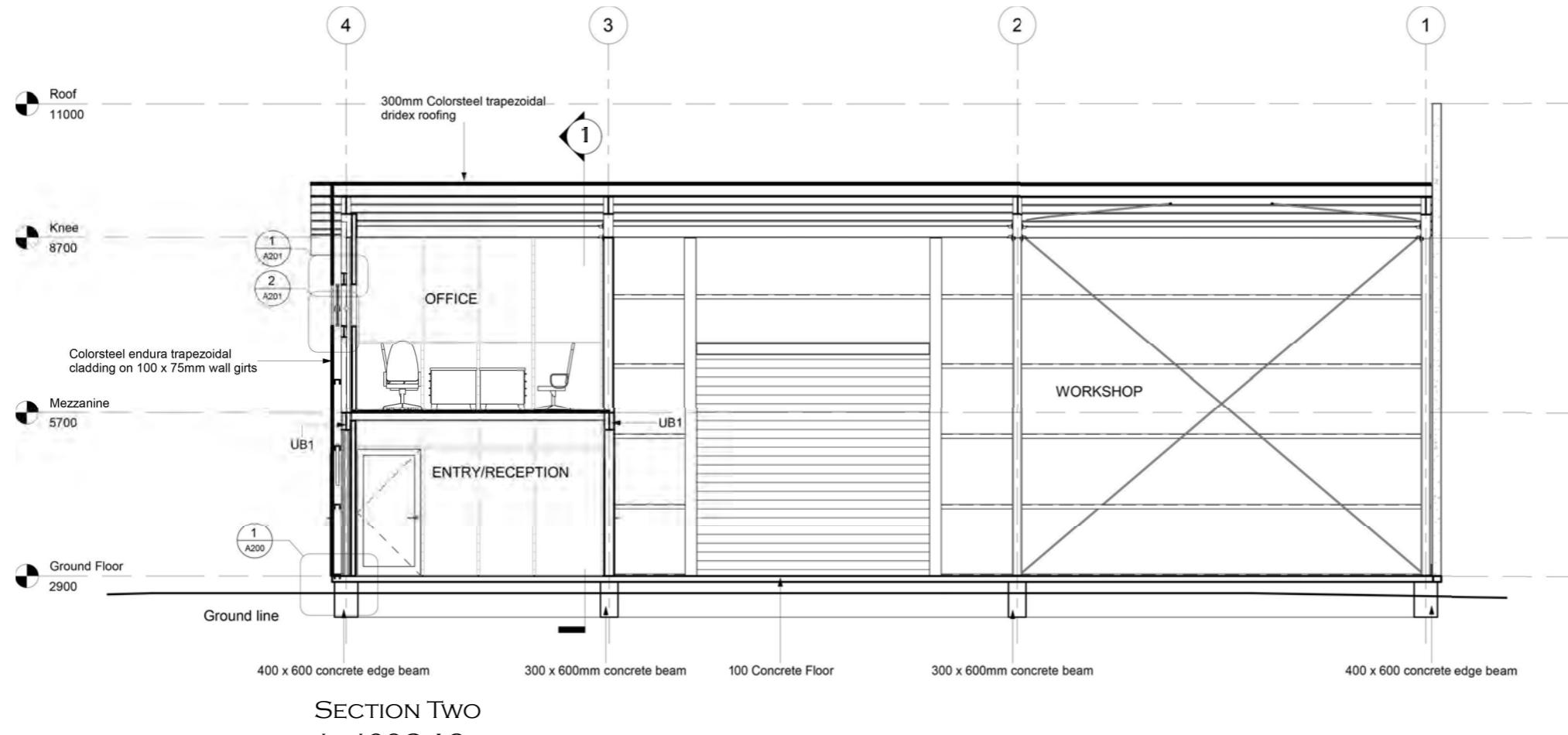
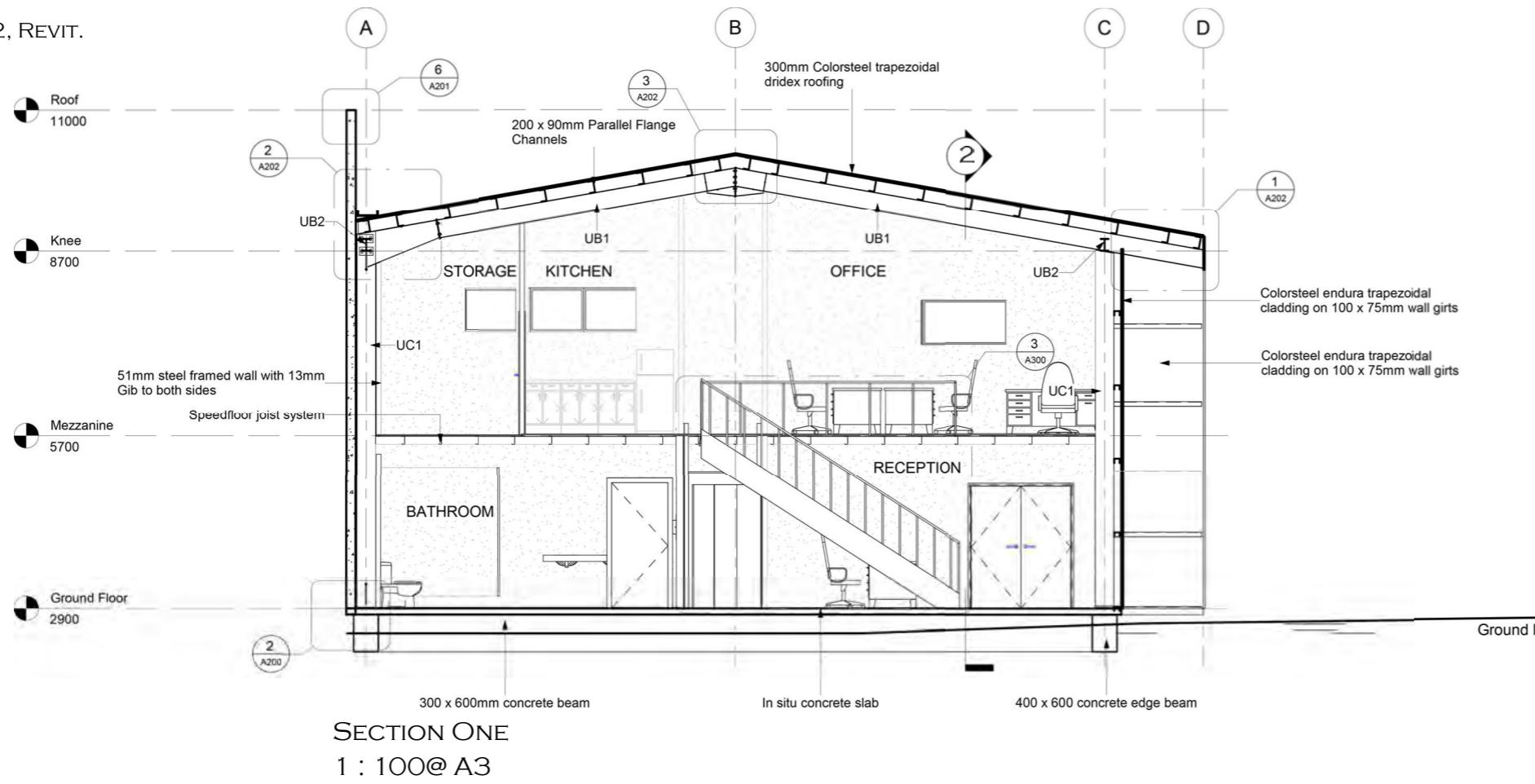


**Notes:**  
 Accessible WC minimum dimensions: 1600mm wide x 1900 long  
 D1 - D3 see door schedule for dimensions  
 PC1-PC4 see precast concrete panel schedule for dimensions  
 UC1: 300 x 165mm Universal Column  
 UC2: 200 x 90mm Universal Column  
 PFC1: 200 Parallel Flange Channel



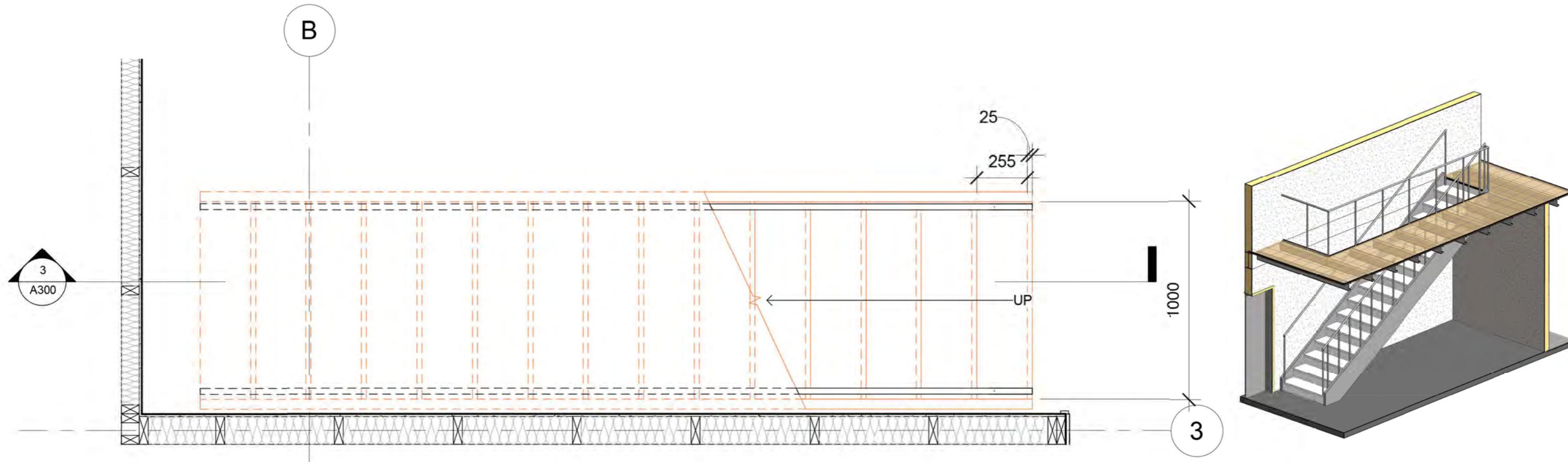
# 1. GOUGH STREET WORKSHOP SECTIONS

NOVEMBER 2022, REVIT.



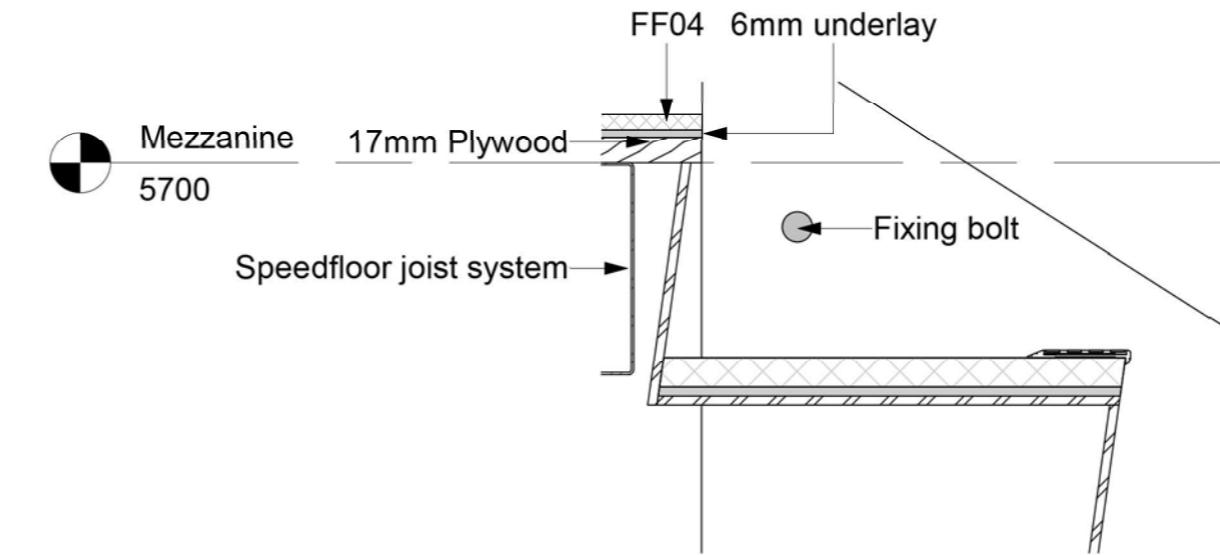
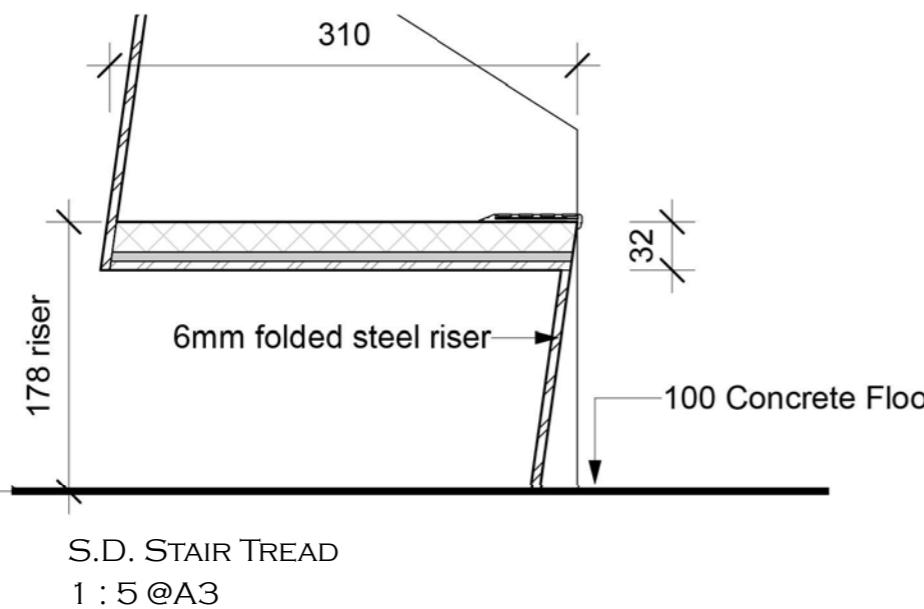
# 1. GOUGH STREET WORKSHOP COMPONENT DRAWINGS

NOVEMBER 2022, REVIT.



STAIR PLAN  
1 : 20 @A3

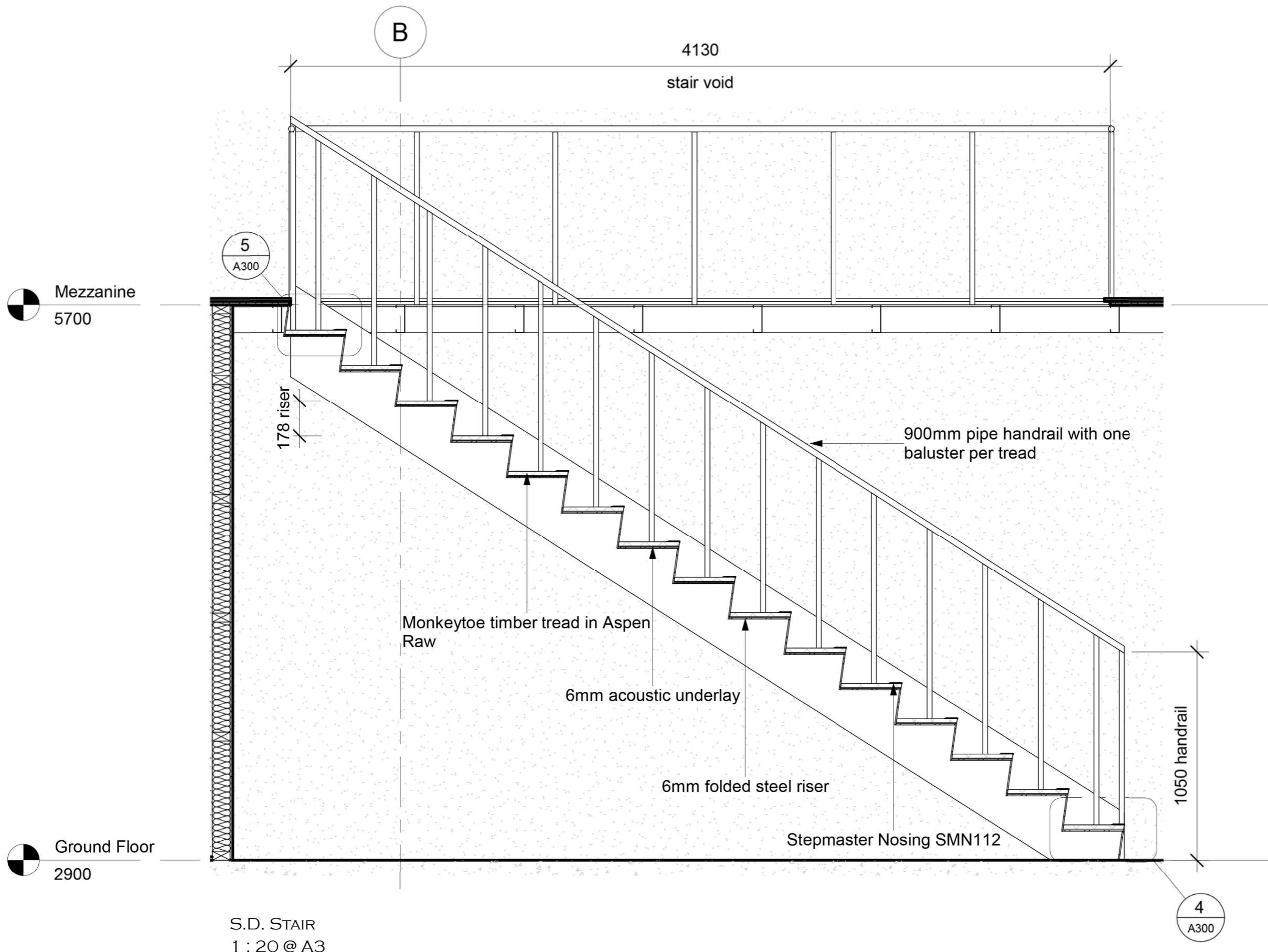
STAIR AXONOMETRIC



S.D. STAIR TO FIRST FLOOR  
1 : 5 @A3

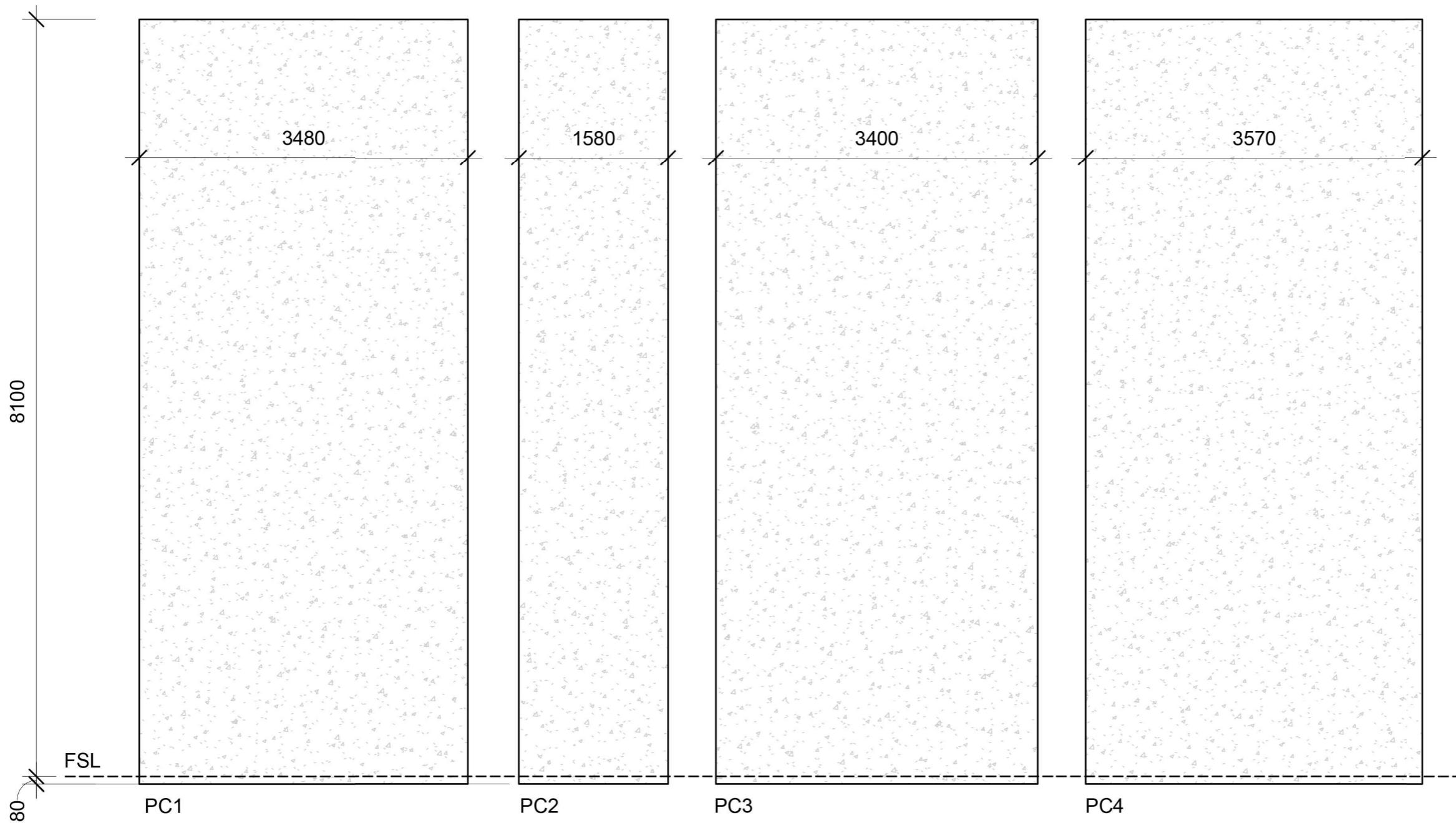
# 1. GOUGH STREET WORKSHOP COMPONENT DRAWINGS

NOVEMBER 2022, REVIT.



# 1. GOUGH STREET WORKSHOP SCHEDULE

NOVEMBER 2022, REVIT.



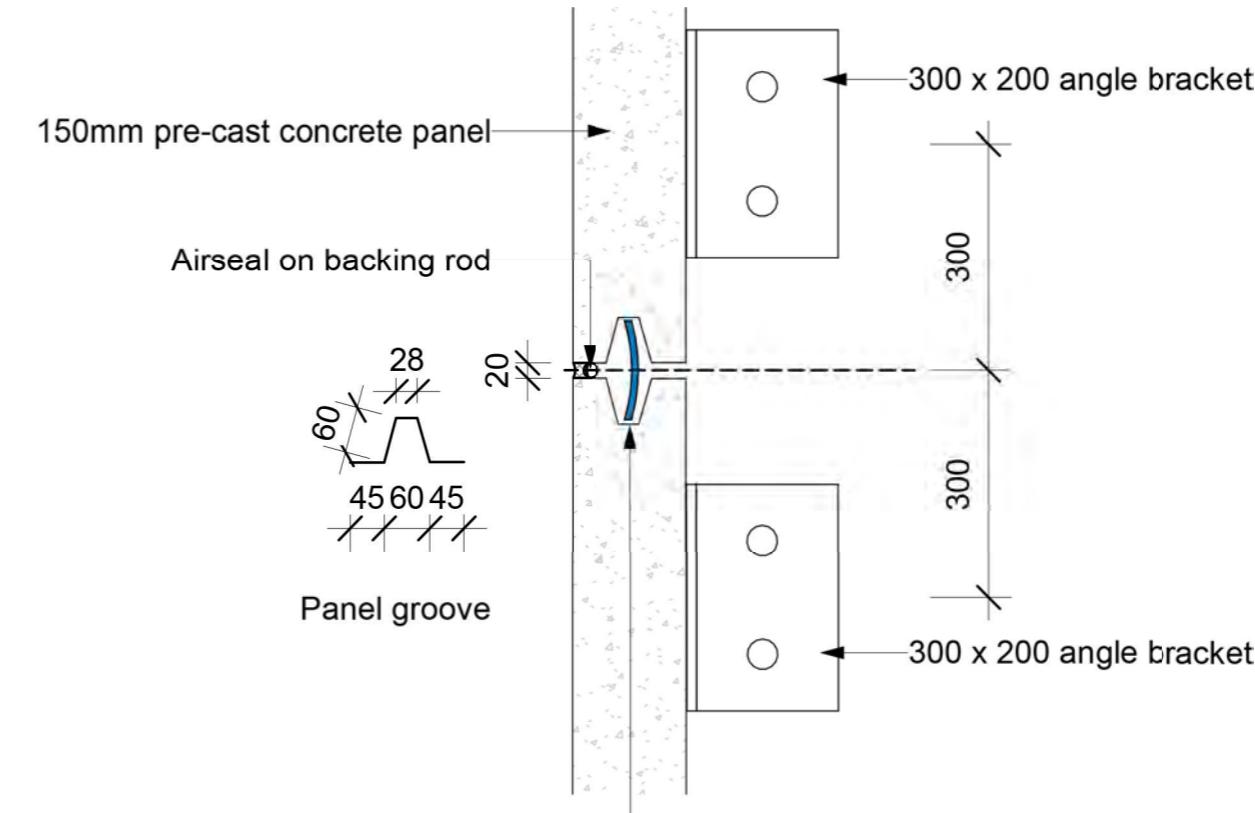
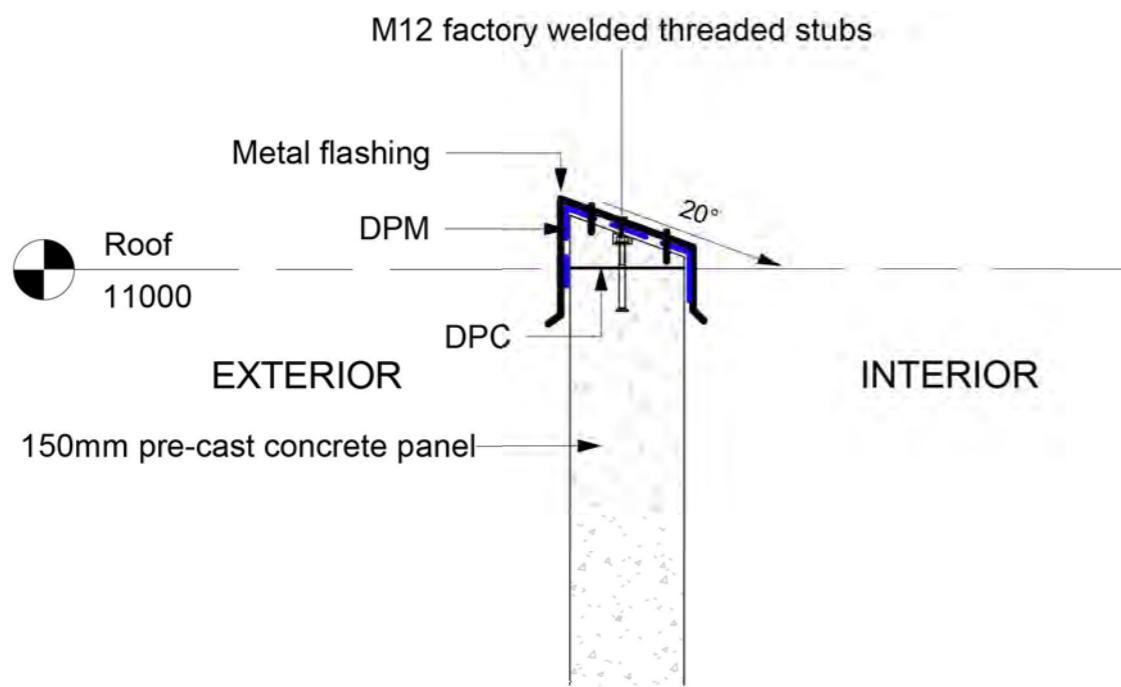
PC CONCRETE PANEL SCHEDULE

1 : 50 @A3

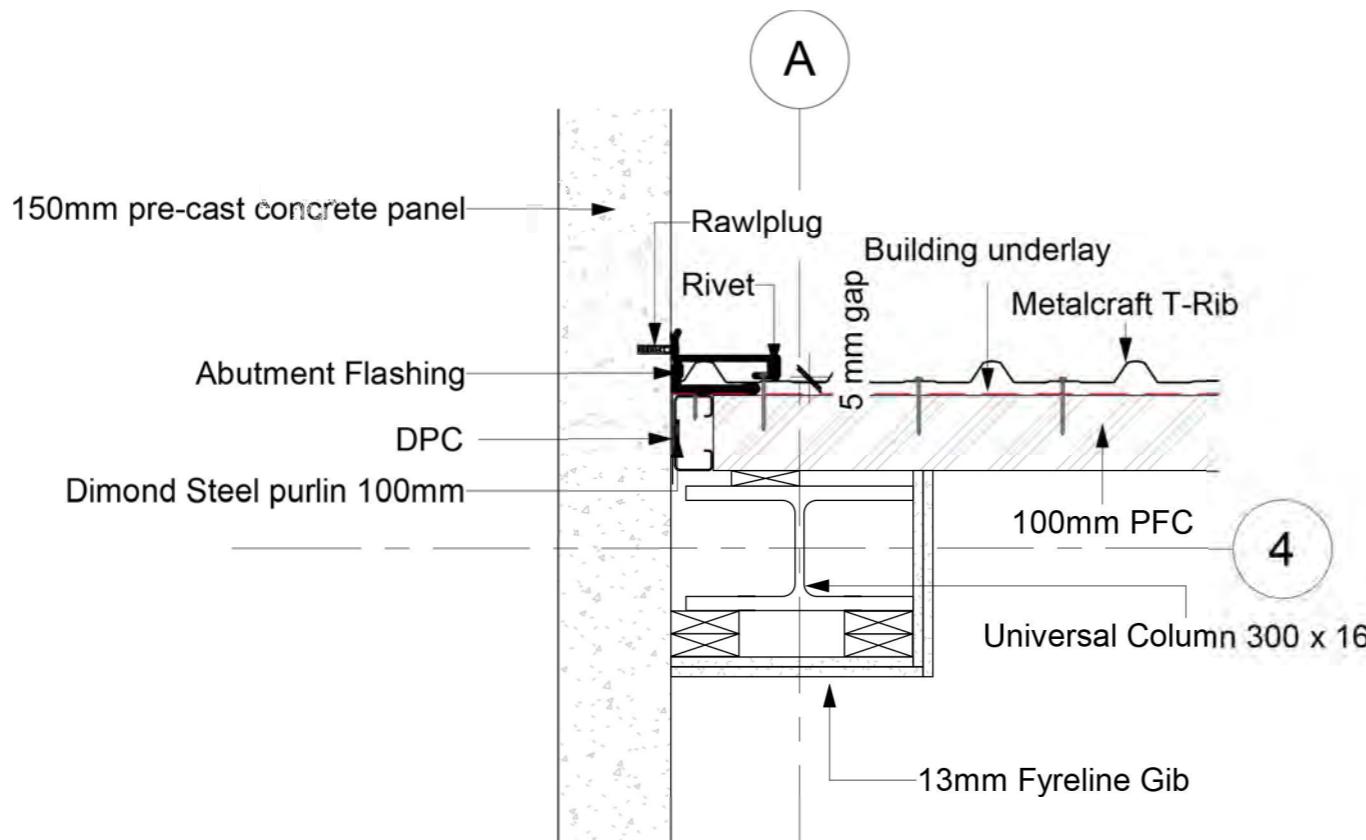
PC Concrete Panel Schedule		
Type Mark	Description	Count
PC1	150mm thick pre-cast concrete panel 8100h x 3480w	7
PC2	150mm thick pre-cast concrete panel 8100h x 1580w	1
PC3	150mm thick pre-cast concrete panel 8100h x 3400w	1
PC4	150mm thick pre-cast concrete panel 8100h x 3570w	1

# 1. GOUGH STREET WORKSHOP DETAILS

NOVEMBER 2022, REVIT.

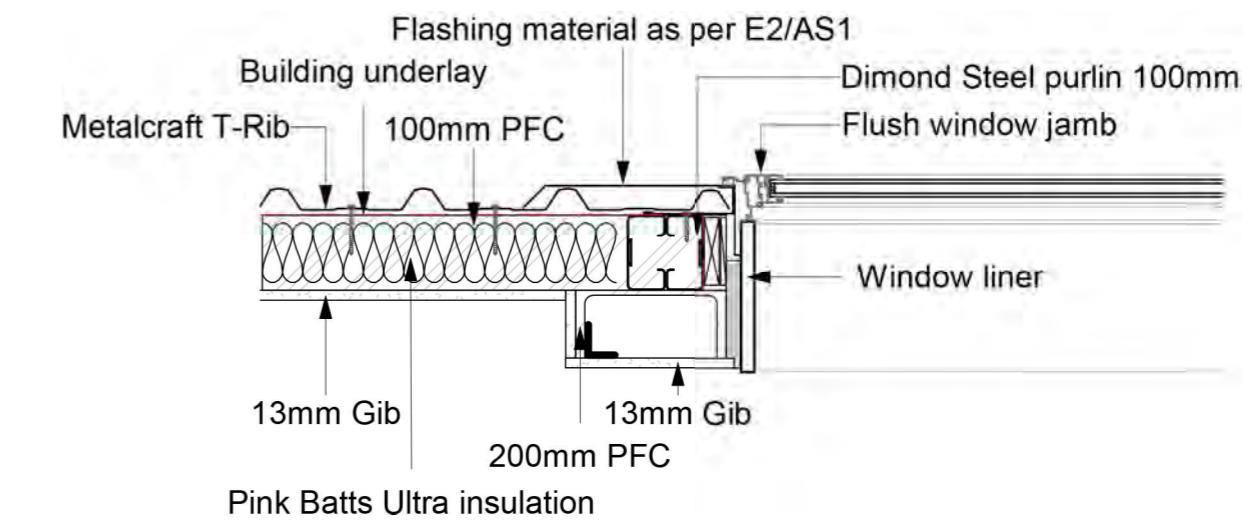


S.D. PC CONCRETE PANEL TOP CAP  
1 : 10 @A3



P.D. PC CONCRETE PANEL TO METAL WALL  
1 : 10 @A3

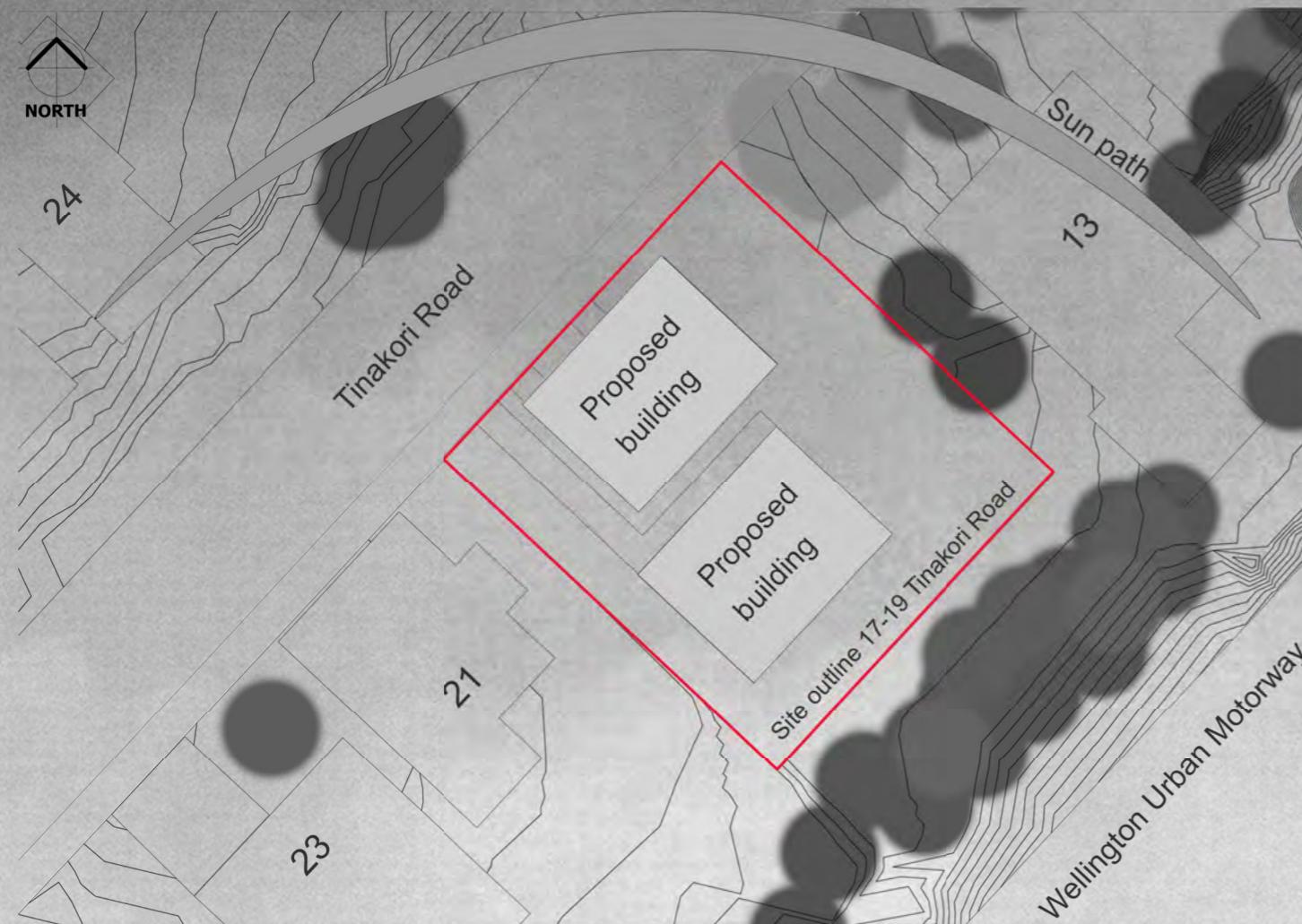
P.D. PC CONCRETE PANEL JOINT  
1 : 10 @A3



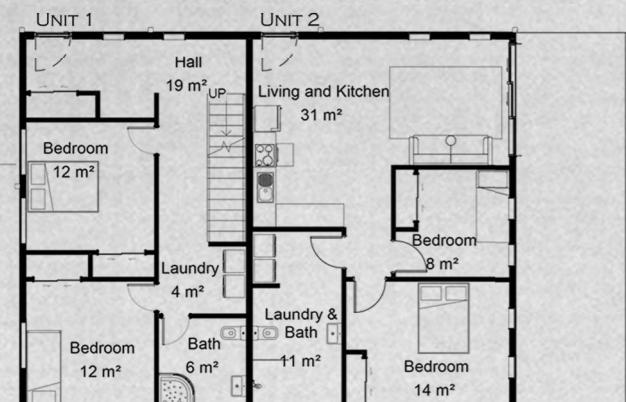
P.D. WINDOW JAMB  
1 : 10 @A3

## 2. SEVENTEEN TINAKORI

NOVEMBER 2022, REVIT, ENSCAPE, PHOTOSHOP.

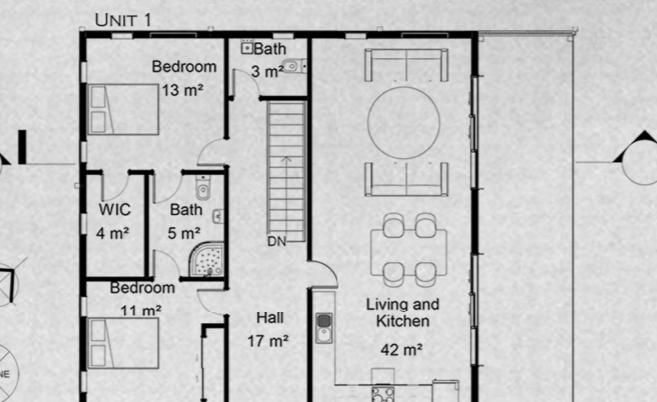


SITE PLAN  
1: 500 @ A3



GROUND FLOOR  
1: 200 @ A3

JESS BEALE



FIRST FLOOR  
1: 200 @ A3



EXTERIOR RENDER LOOKING EAST

SEVENTEEN TINAKORI WAS DESIGNED AS A MEDIUM DENSITY DEVELOPMENT IN THORNDON PROVIDING FOUR SOCIAL HOUSING UNITS, TWO OF WHICH ARE ACCESSIBLE GROUND FLOOR UNITS.

THE DESIGN REFERENCES THE HISTORY AND CULTURE OF THE AREA WHILE PROVIDING WARM AND COMFORTABLE HOUSING.



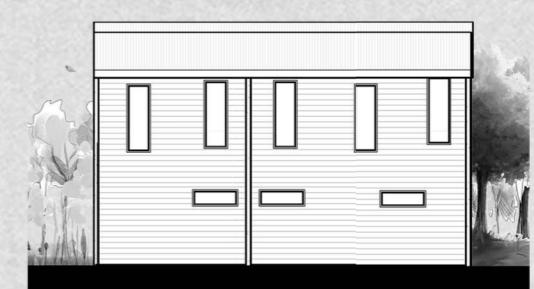
NW ELEVATION  
1: 200 @ A3



NE ELEVATION  
1: 200 @ A3



SE ELEVATION  
1: 200 @ A3



SW ELEVATION  
1: 200 @ A3

## 2. SEVENTEEN TINAKORI

NOVEMBER 2022, REVIT, ENSCAPE, PHOTOSHOP.



SECTION

1: 100 @ A3



SECTION SHOWING RELATIONSHIP OF UNITS

1: 100 @ A3



UNIT 1 RENDER



UNIT 2 RENDER

SEVENTEEN Tinakori is a four unit development across two buildings comprising 2 x 2 bedroom ground floor units and 2 x 4 bedroom 2 storey units that curl over the ground floor units.

The design looks from the street like each building contains three separate townhouses, but the facade hides two units. The larger unit has a spacious and private deck while the ground floor unit opens onto a large deck with direct access to shared garden space.

### HISTORY AND CULTURE

The development provides medium density housing in a similar footprint to a typical Thorndon house and references both classic Thorndon townhouses and nearby buildings.

### MATERIALS AND ACCESSIBILITY

Brick, timber weatherboards and timber joinery provide a calm and tranquil environment. All units have a private deck looking out onto shared garden space.

### 3. BERHAMPORE TOWNHOUSE

MAY 2022, REVIT, ENSCAPE.

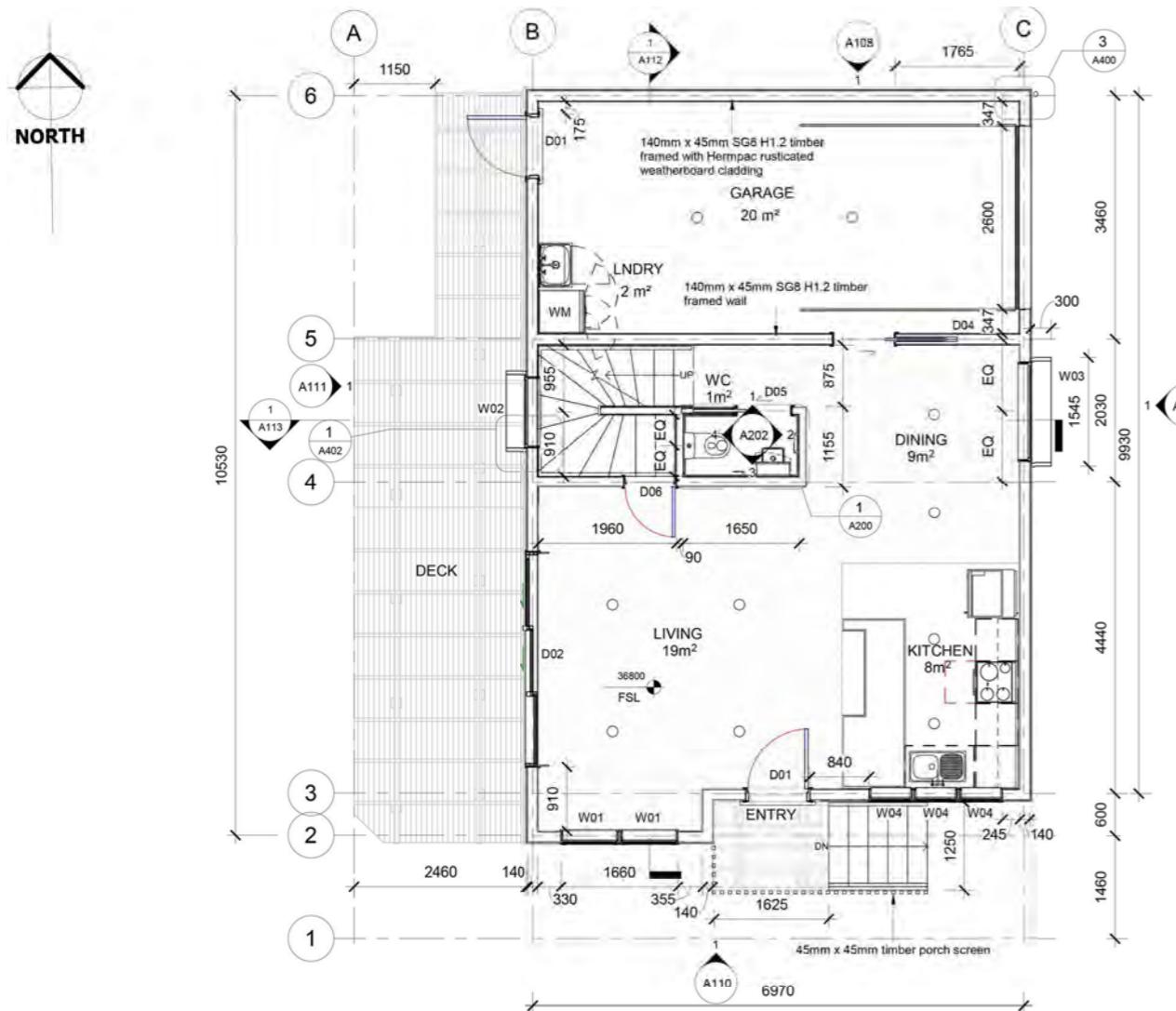
THE BERHAMPORE TOWNHOUSE PROJECT WAS AN EXERCISE IN ACCURATELY MODELLING A TIMBER FRAMED BUILDING IN REVIT.

THE HOUSE IS A TWO STOREY, THREE BEDROOM HOME WITH AN INTERNAL ACCESS GARAGE AND EXTERNAL DECKING.

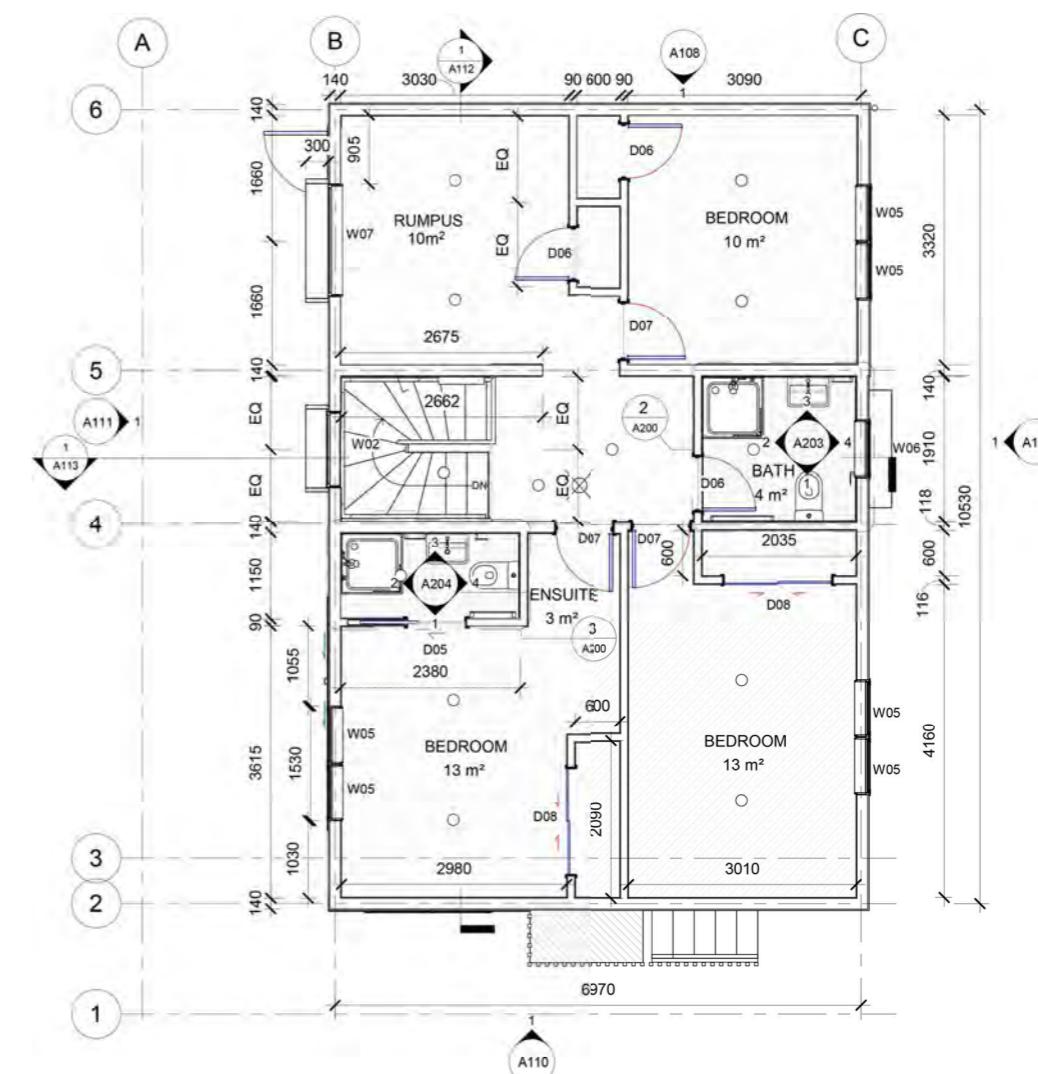
THE HOUSE IS INTENDED TO BE PLACED AT THE FRONT OF A SECTION IN BERHAMPORE, IN FRONT OF AN EXISTING HOUSE.



EXTERIOR RENDER LOOKING SOUTH EAST



GROUND FLOOR PLAN  
1: 100 @ A3



FIRST FLOOR PLAN  
1: 100 @ A3

### 3. BERHAMPORE TOWNHOUSE PLANS

MAY 2022, REVIT.



#### Notes

Address: 10 Palm Grove  
Berhampore  
Wellington 6023

Lot: 5 DP 797  
Parcel ID: 3932170

Wellington City Council  
DP Zone: Inner Residential  
IR4 Berhampore

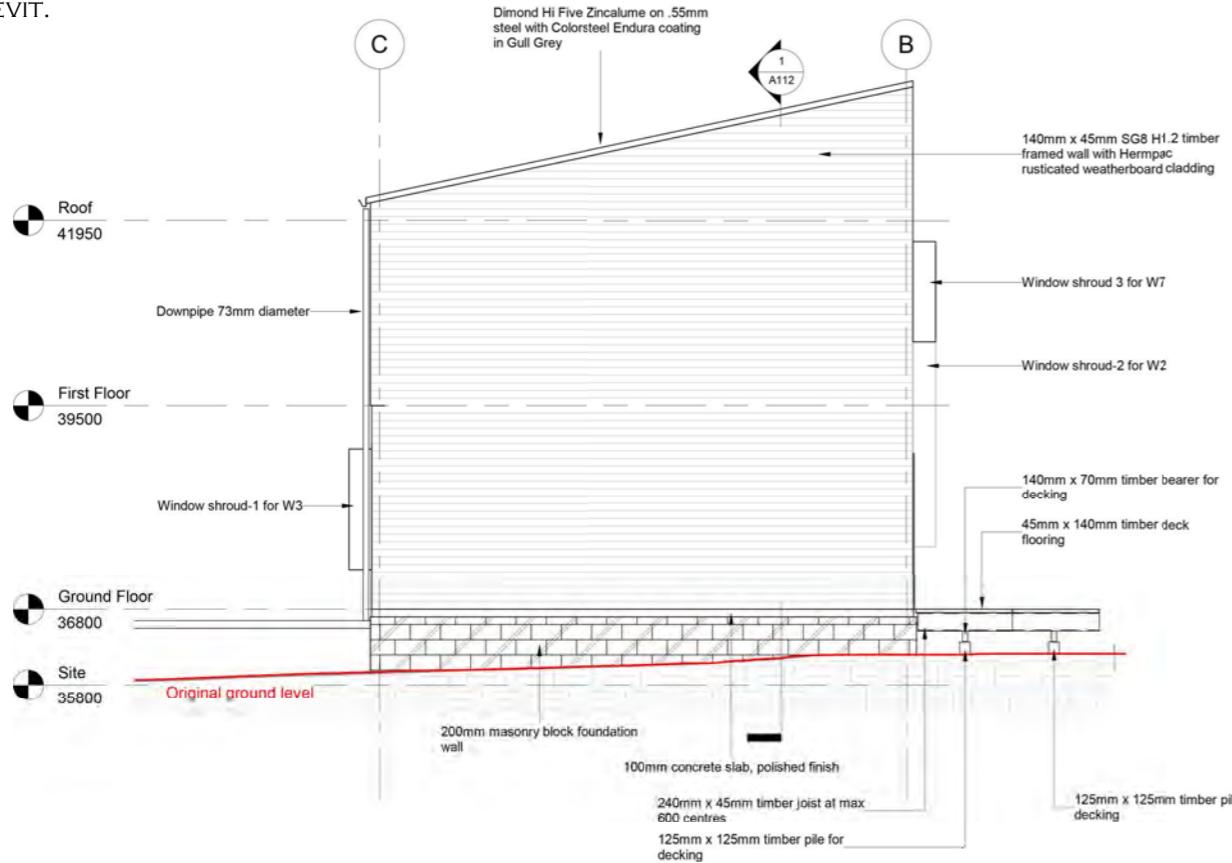
Front yard: Minimum 3m  
Side yards: No requirement  
Maximum Height: 9m

Wind Zone: Medium/High  
Earthquake Zone: 3  
Exposure Zone: C  
Climate Zone: 2  
Wind Region: W  
Rainfall Intensity: 50-60mm

Site Area: 519m<sup>2</sup>  
Current buildings on site: Approx 110m<sup>2</sup>  
Proposed building on site: Approx 74m<sup>2</sup>  
Total site coverage: 110m<sup>2</sup> + 74m<sup>2</sup> = 21%  
Maximum allowable coverage: 50%

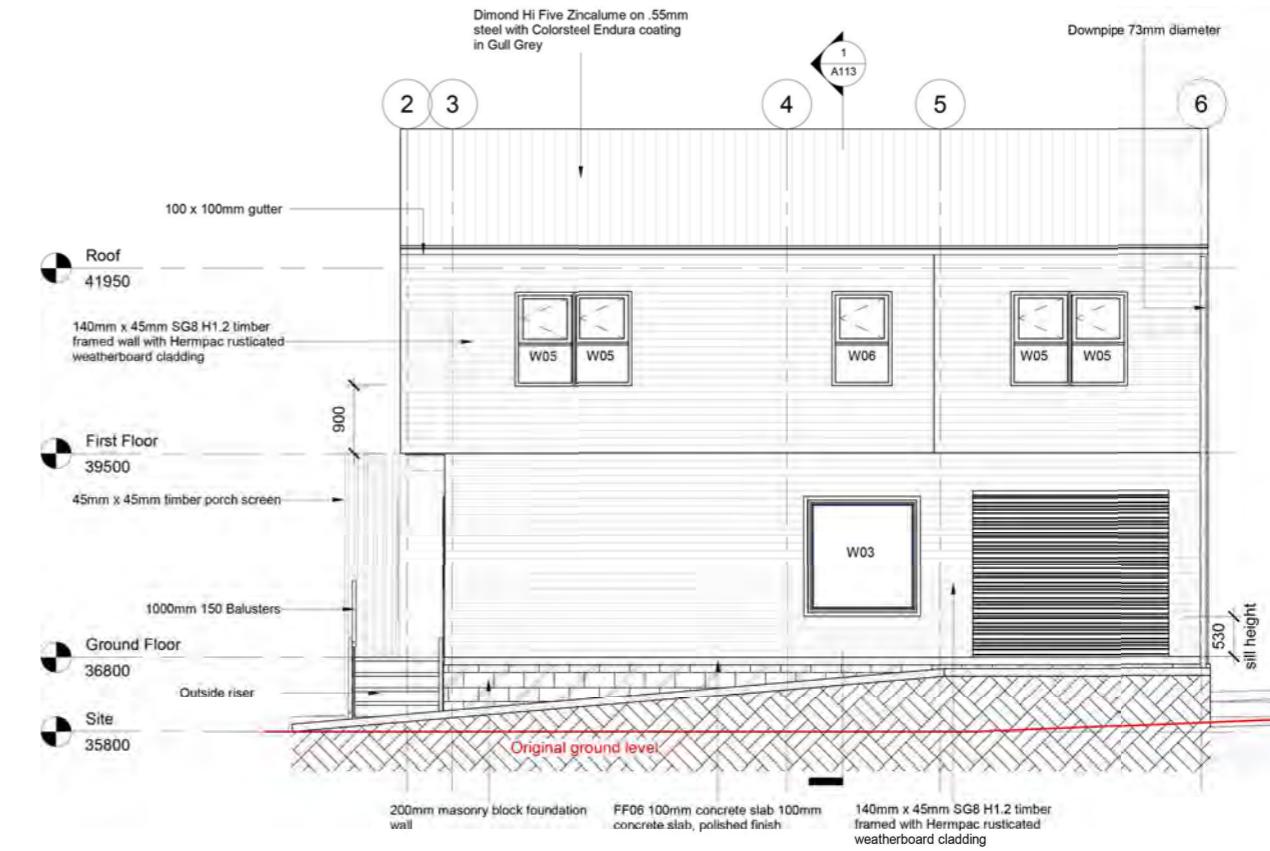
### 3. BERHAMPORE TOWNHOUSE ELEVATIONS

MAY 2022, REVIT.



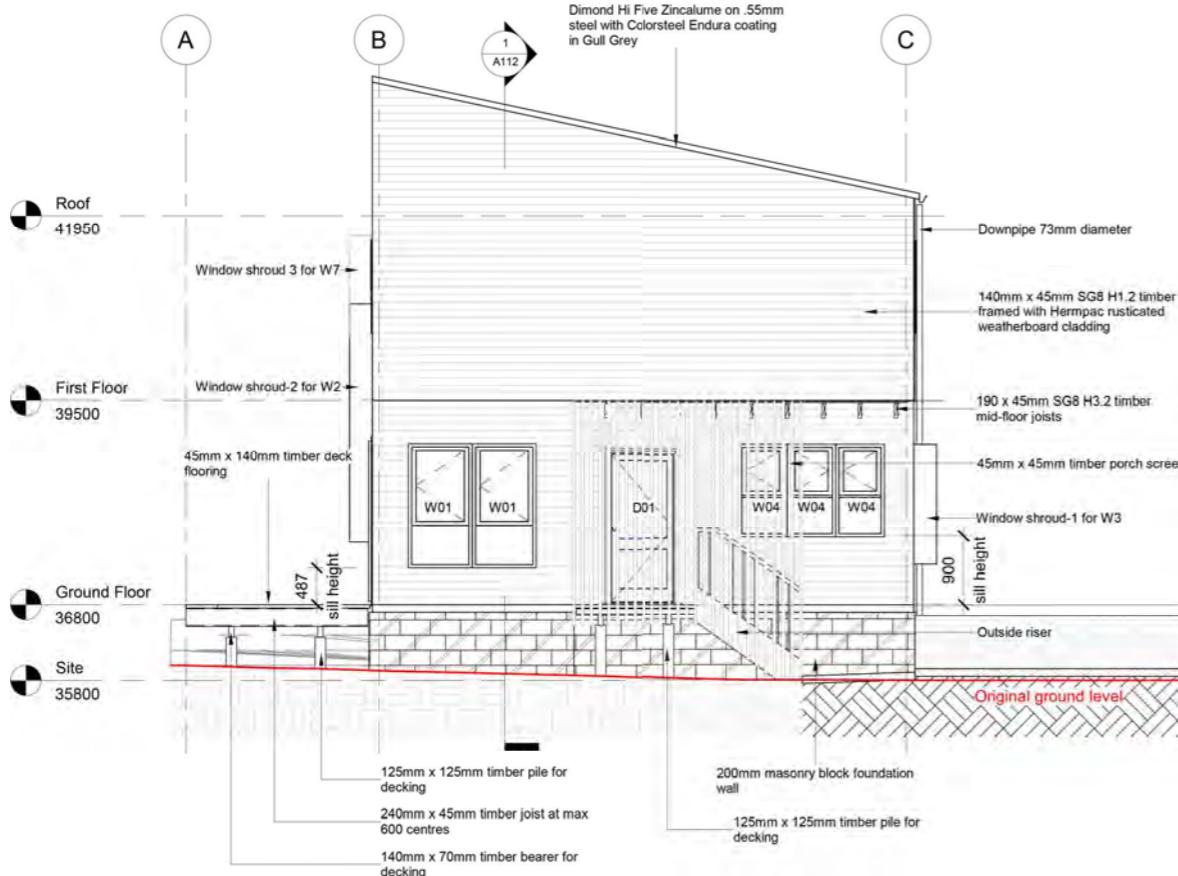
NORTH ELEVATION

1: 100 @ A3



EAST ELEVATION

1: 100 @ A3



SOUTH ELEVATION

1: 100 @ A3

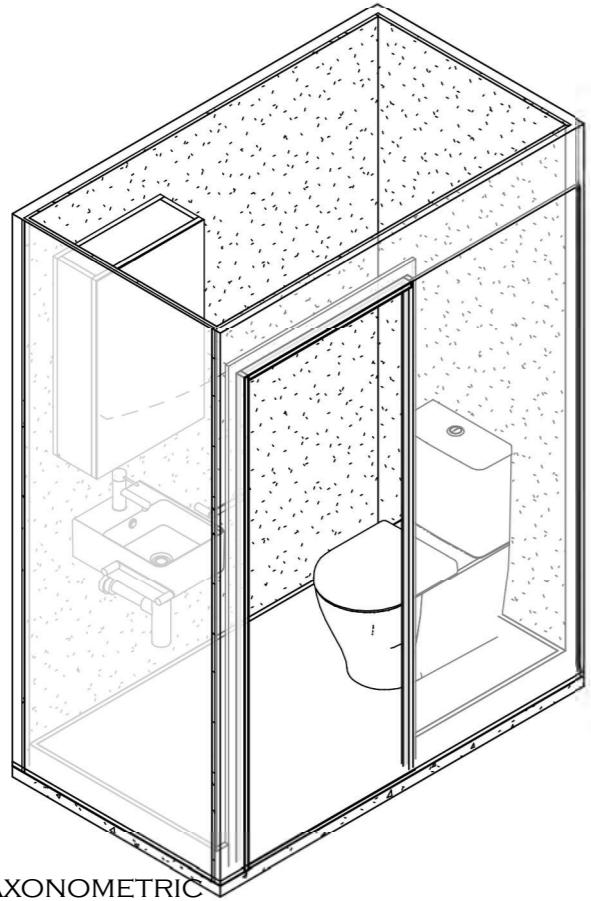


WEST ELEVATION

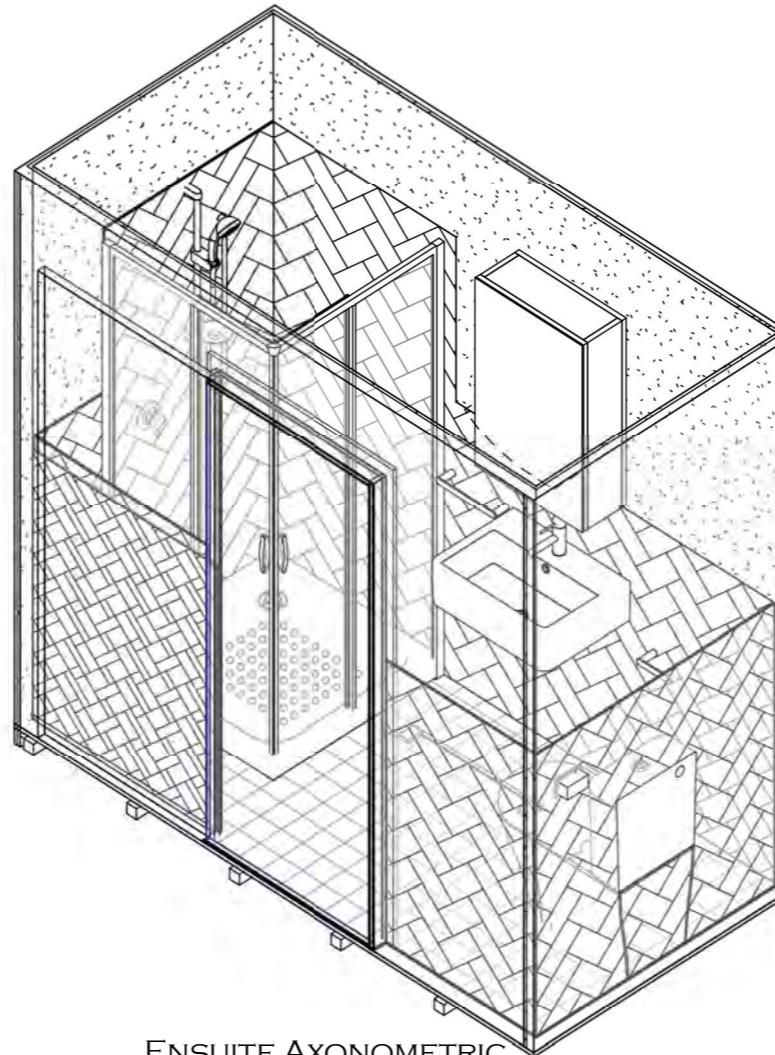
1: 100 @ A3

### 3. BERHAMPORE TOWNHOUSE COMPONENT DRAWINGS

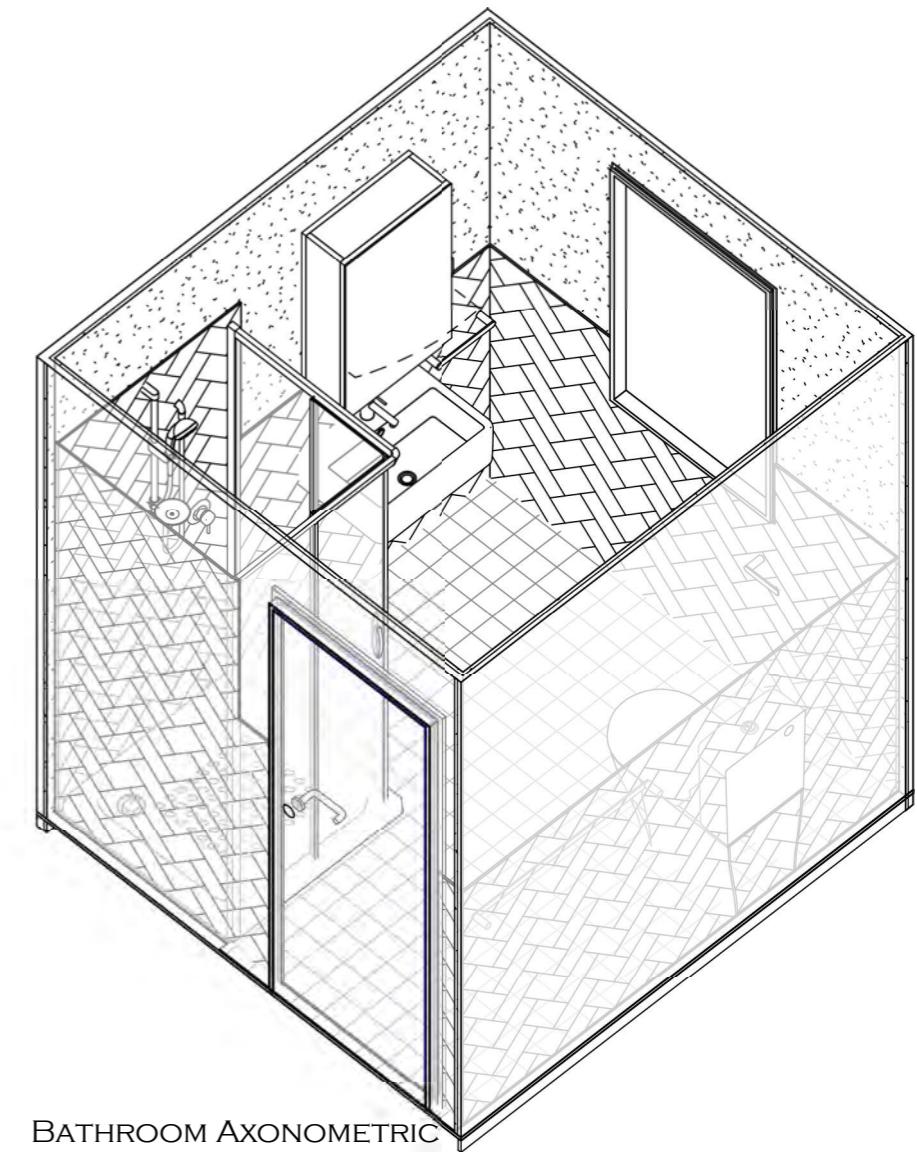
MAY 2022, REVIT.



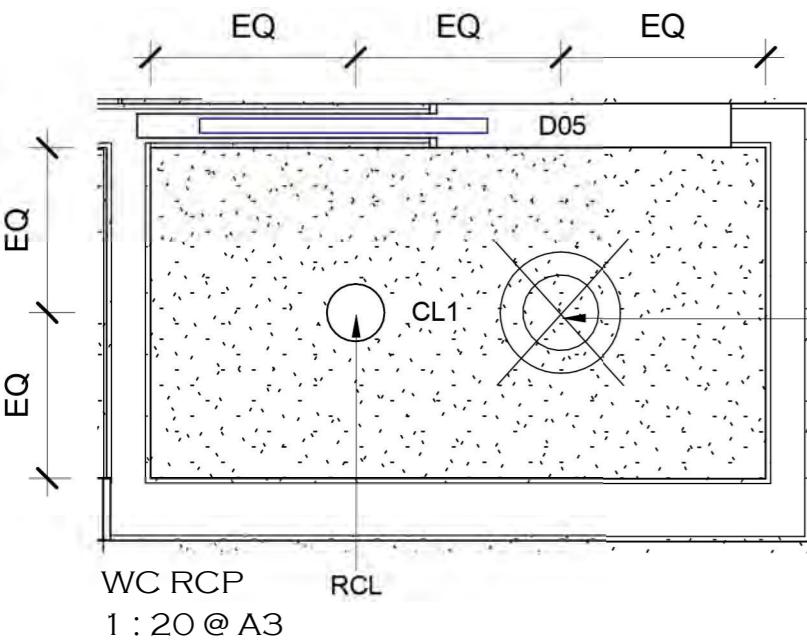
WC AXONOMETRIC



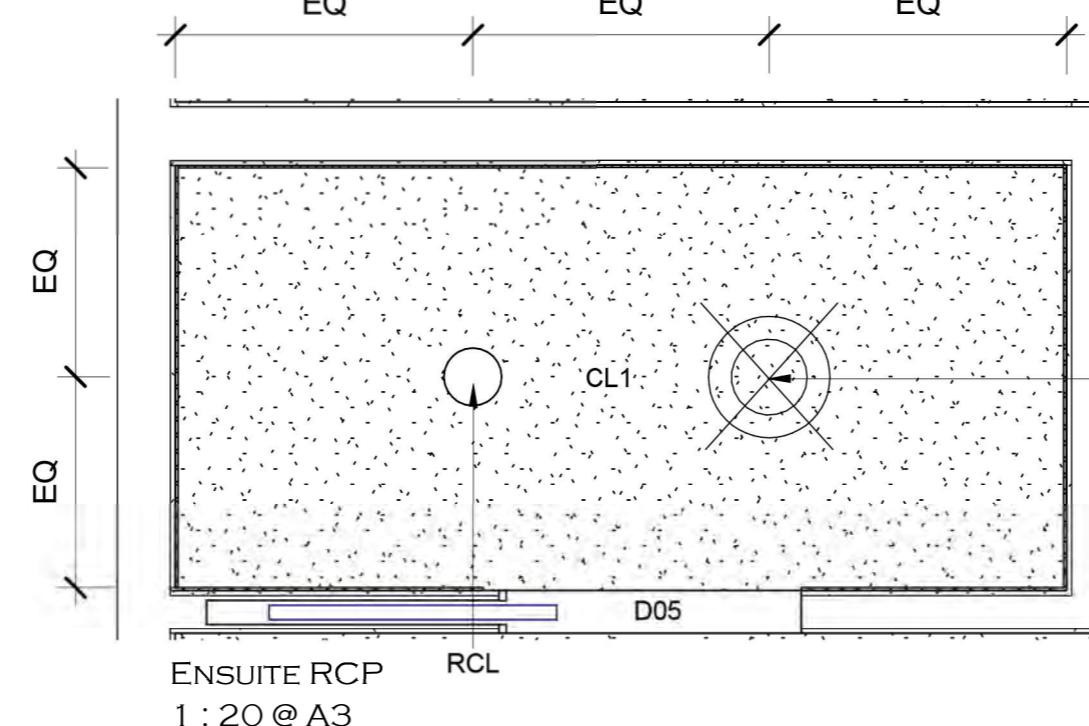
ENSUITE AXONOMETRIC



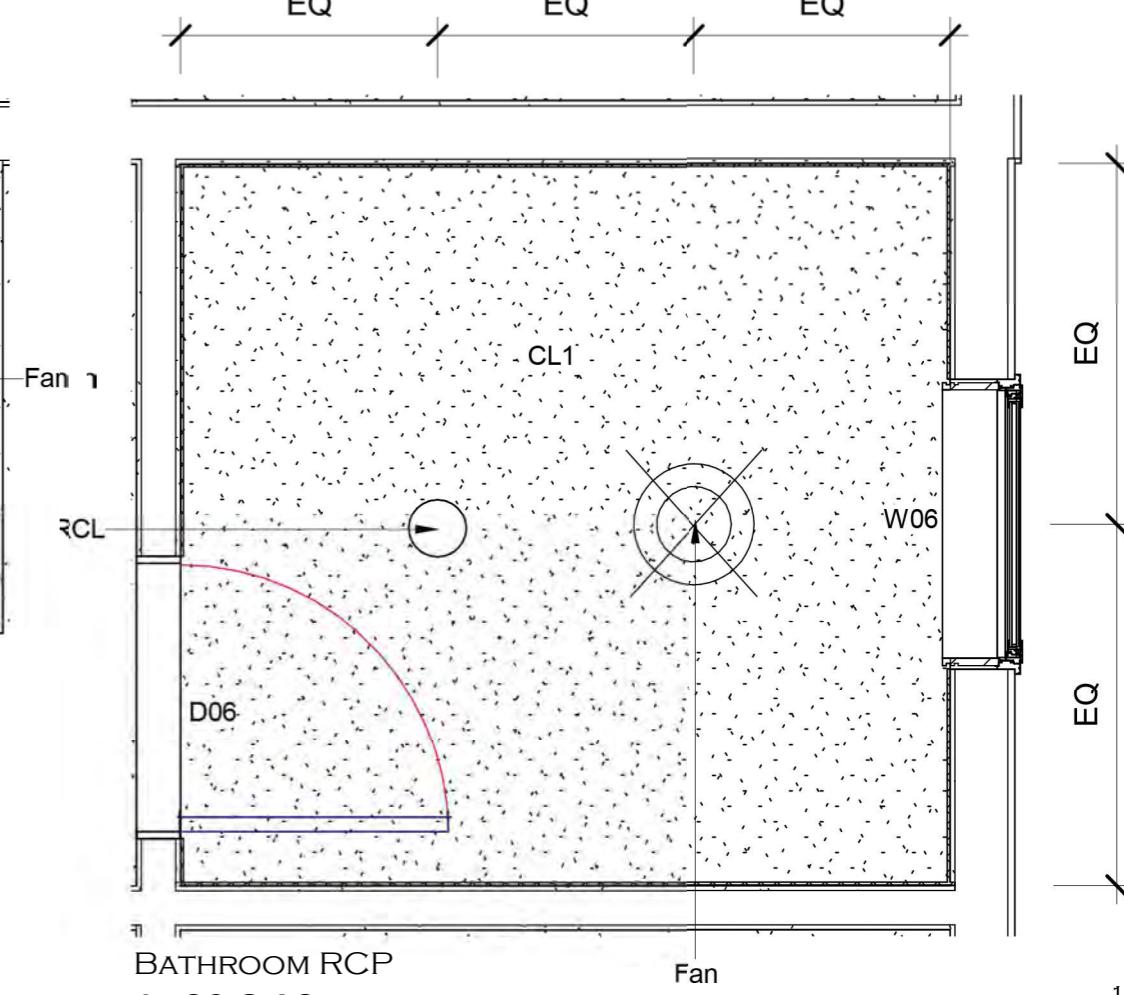
BATHROOM AXONOMETRIC



WC RCP  
1 : 20 @ A3



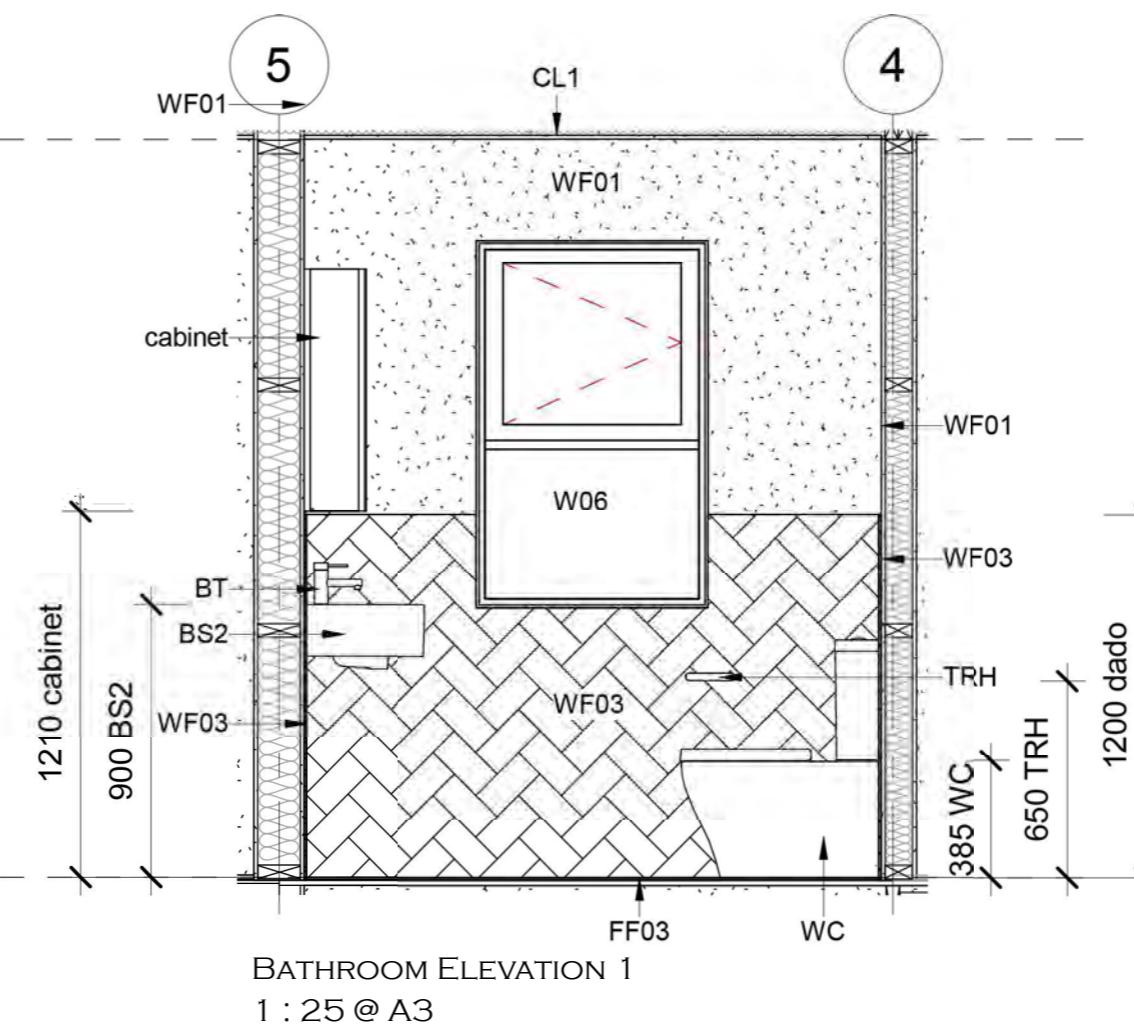
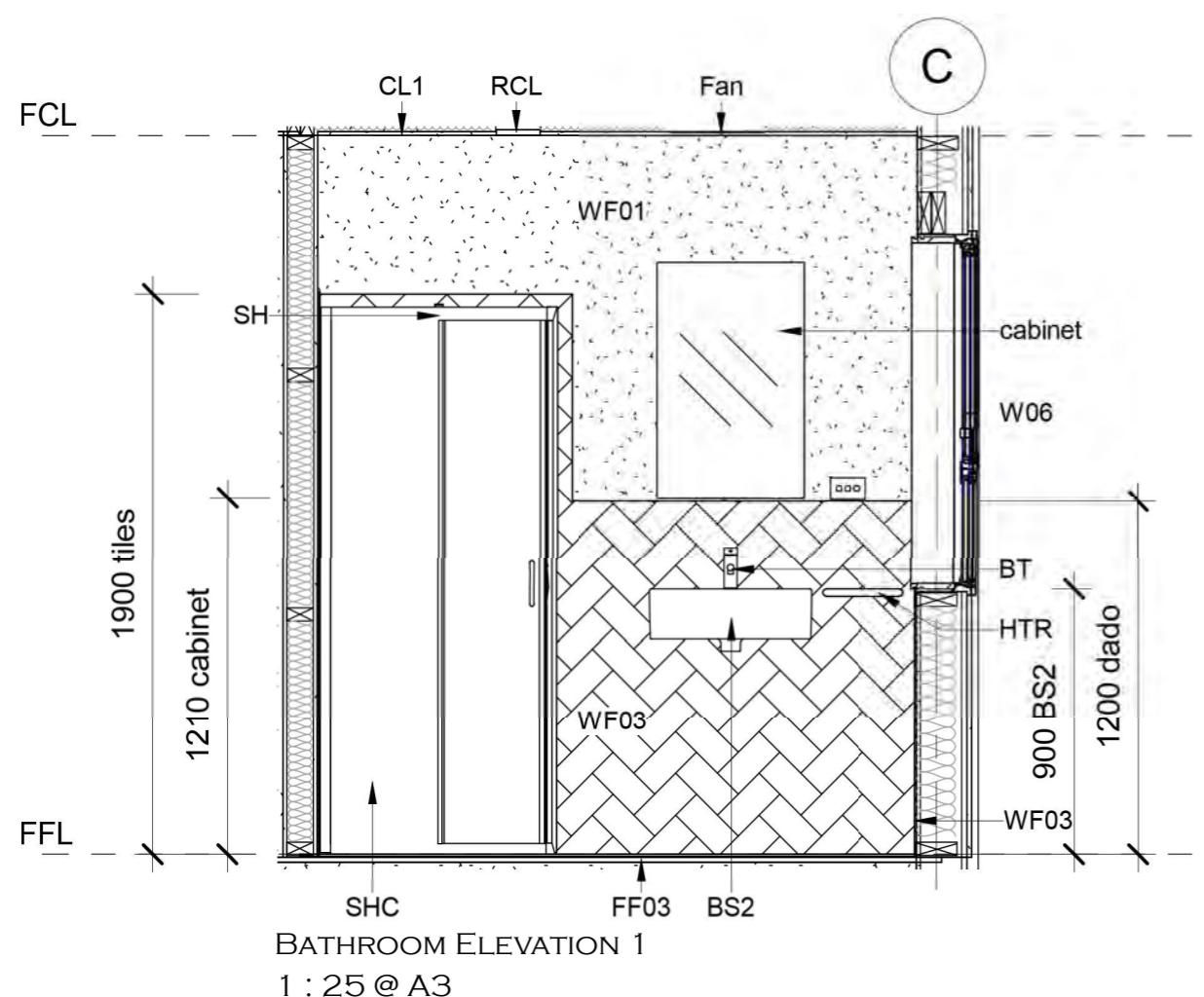
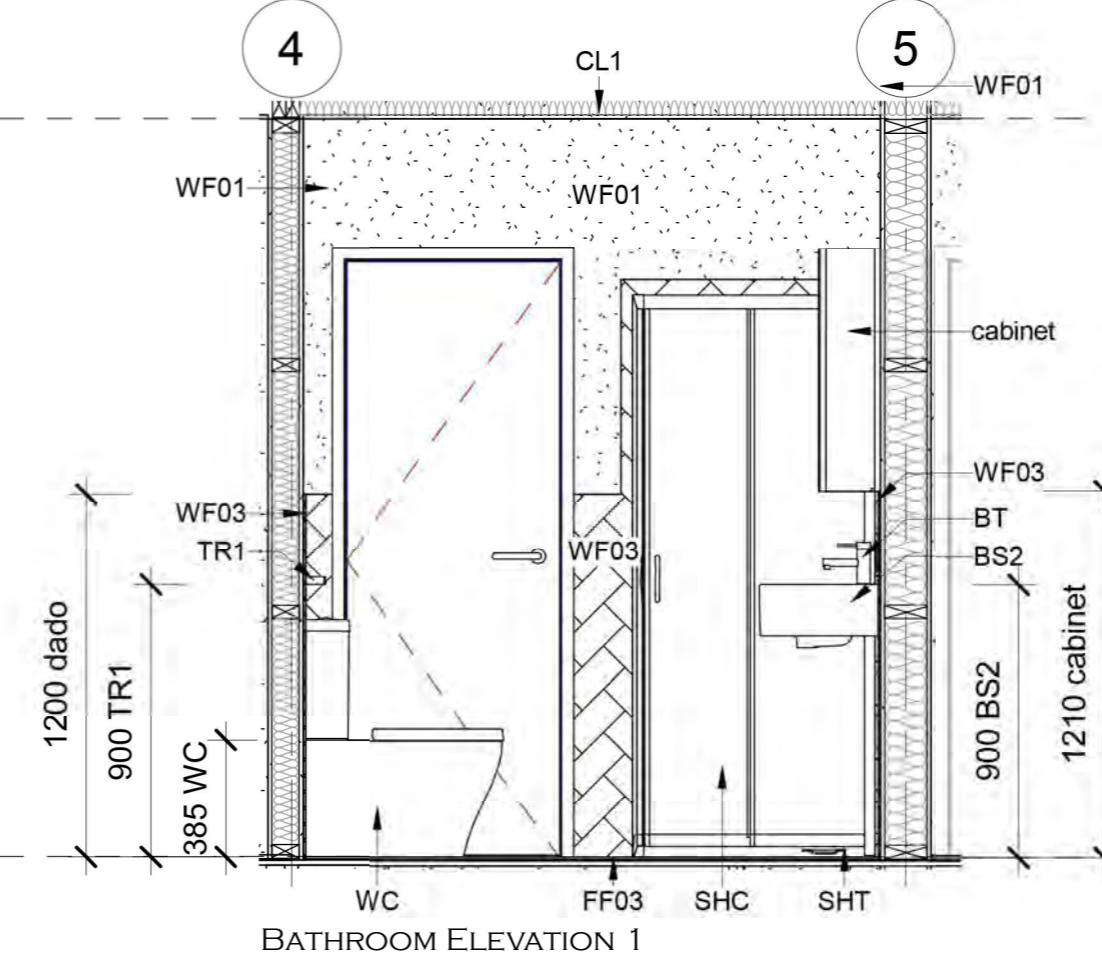
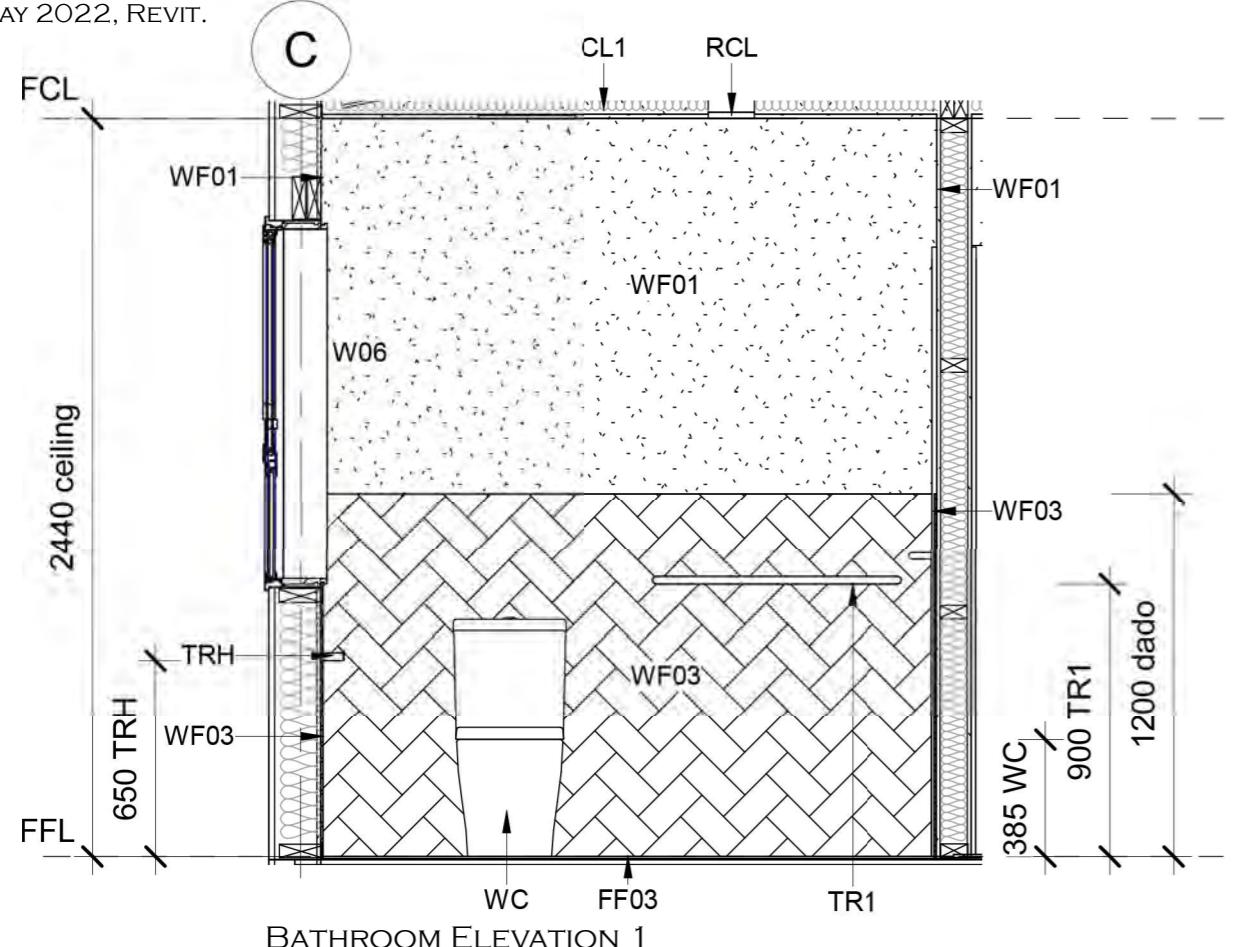
ENSUITE RCP  
1 : 20 @ A3



BATHROOM RCP  
1 : 20 @ A3

### 3. BERHAMPORE TOWNHOUSE COMPONENT DRAWINGS

MAY 2022, REVIT.

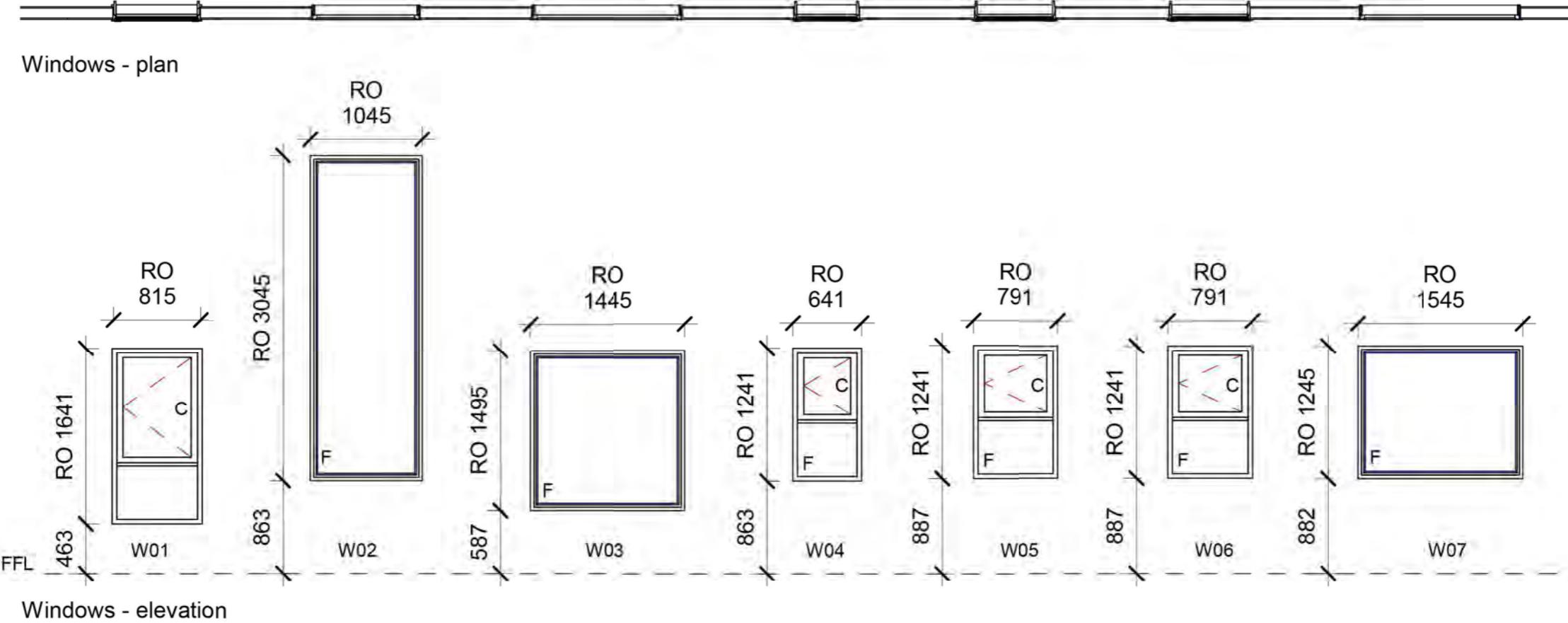


**Notes**

CL1: 13mm aqualine GIB ceiling  
 RCL: Proton.15 LED downlight - white  
 Fan: BVN Axial fan model EF  
 Insulation: GreenStuf Thermal Pads R2.5  
 TRH: Urbane II Toilet roll holder in black 99620C  
 HTR: Urbane II Hand towel rail in black 99618B  
 TR1: Urbane II Single towel rail in black 99617B  
 Plumbing fixtures, floor and wall finishes: refer to schedules

### 3. BERHAMPORE TOWNHOUSE SCHEDULE

MAY 2022, REVIT.

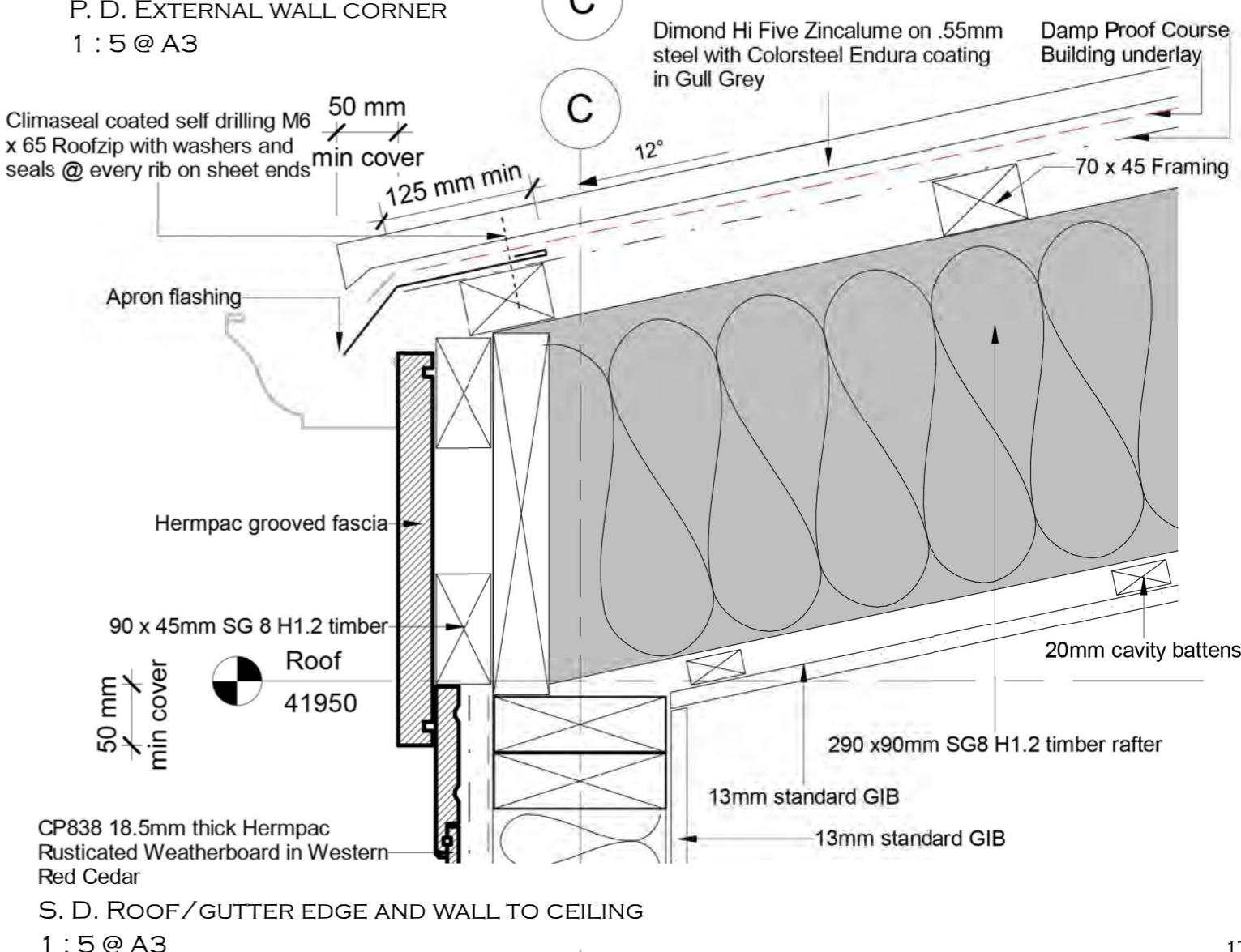
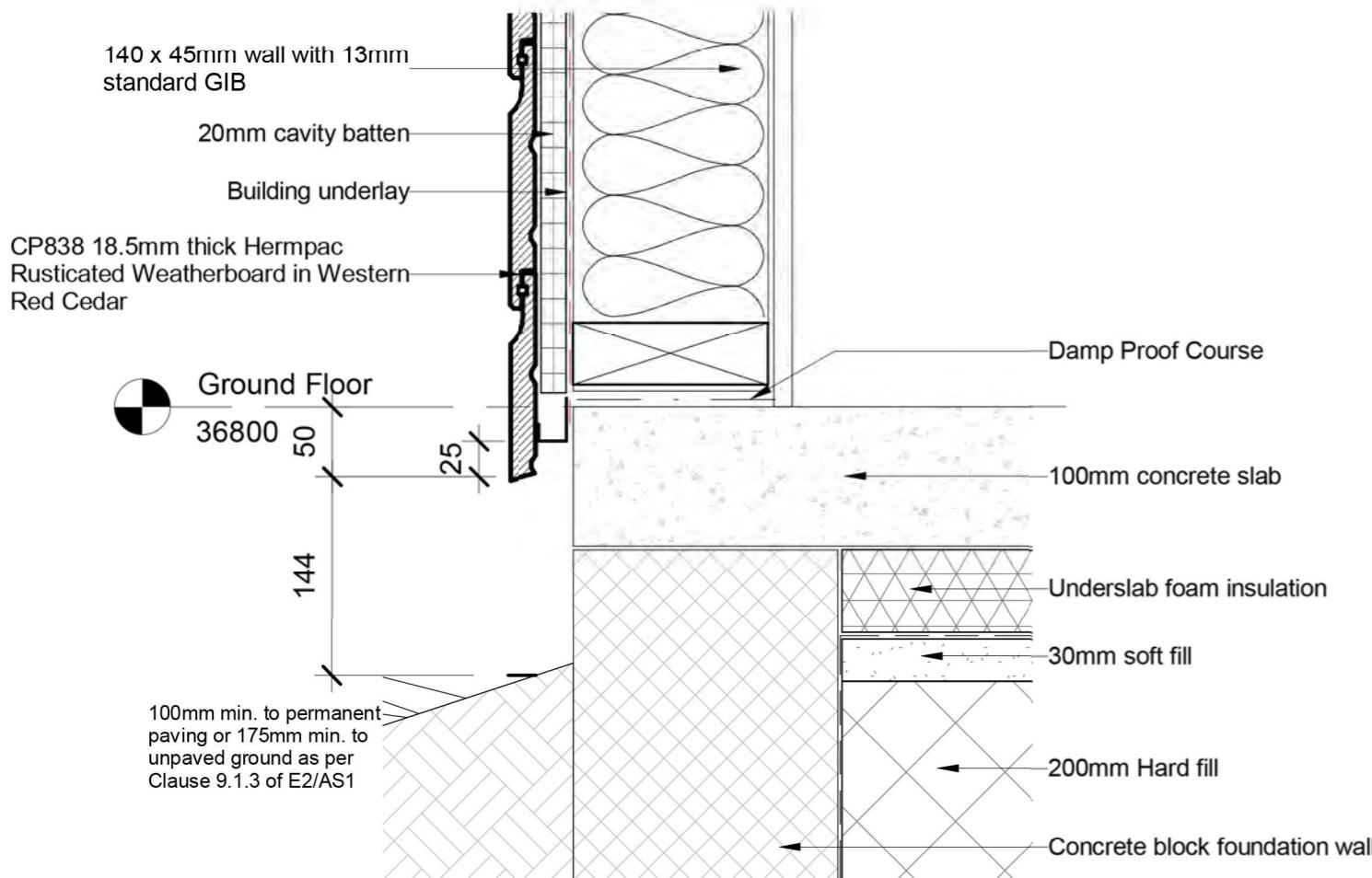
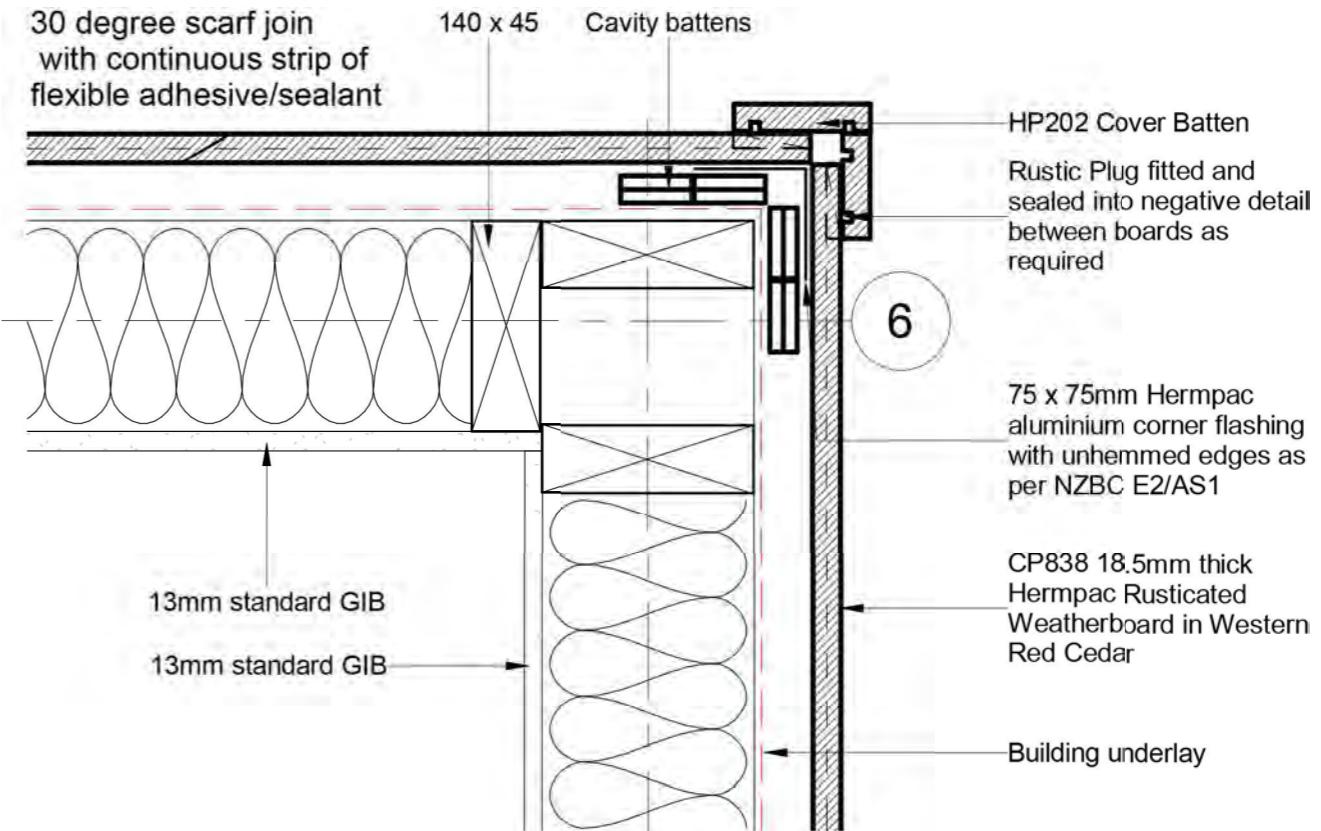
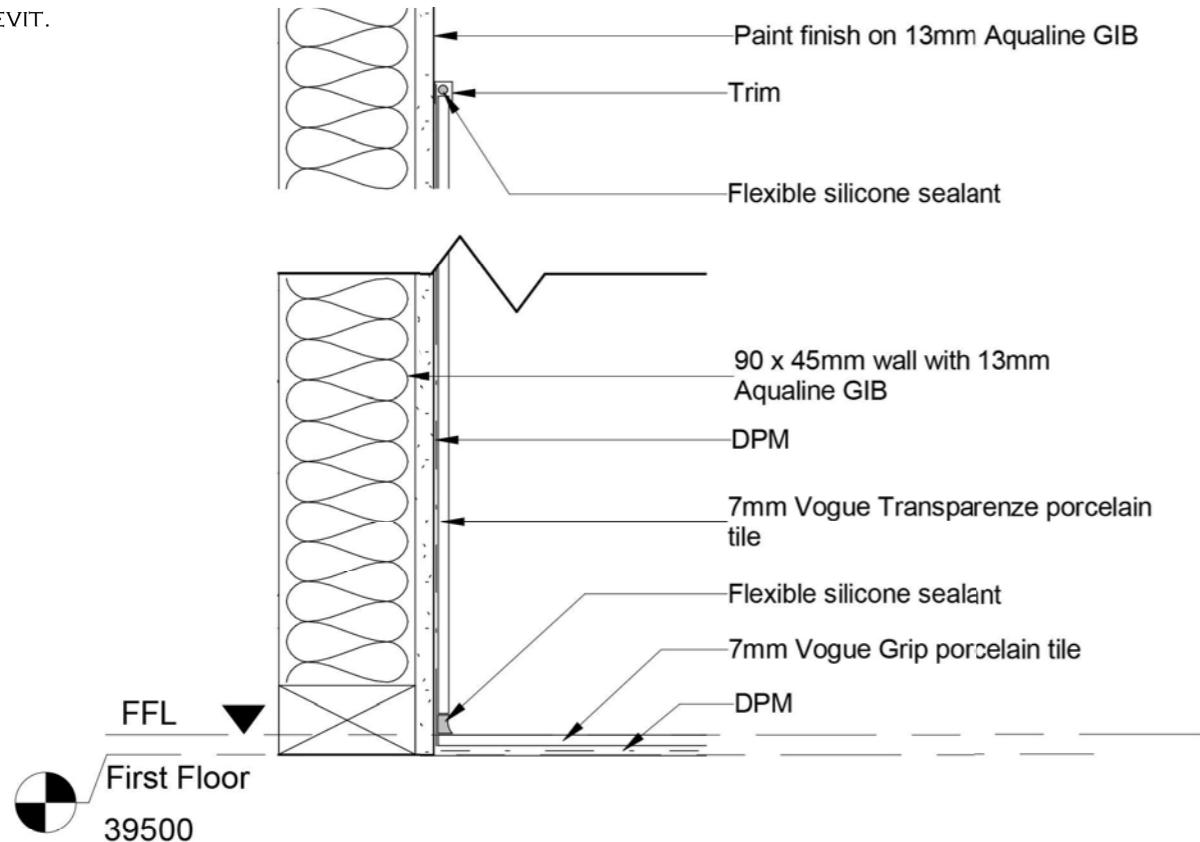


Window Schedule

Type Mark	Type	Description	Count	Finish	Glazing	Location	Hardware
W01	1600 x 800	APL Metro series awning casement window	2	Powder coated aluminium frame in colour Matt Appliance White	Metro Performance IGU clear double glazing low E glass	Double pane window on west side of entry	Vantage Urbo venting window fastener
W02	3000 x 1000	APL Metro Residential Suite	1	Powder coated aluminium frame in colour Matt Appliance White	Metro Performance IGU clear double glazing low E glass	Stair	
W03	1450 x 1400	APL Metro Residential Suite	1	Powder coated aluminium frame in colour Matt Appliance White	Metro Performance IGU clear double glazing low E glass	Ground floor east side of house	
W04	1200 x 600	APL Metro series awning casement window	3	Powder coated aluminium frame in colour Matt Appliance White	Metro Performance IGU clear double glazing low E glass	Triple pane window on east side of entry	Vantage Urbo venting window fastener
W05	1200 x 750	APL Metro series awning casement window	6	Powder coated aluminium frame in colour Matt Appliance White	Metro Performance IGU clear double glazing low E glass	First floor bedrooms	Vantage Urbo venting window fastener
W06	1200 x 750 frosted	APL Metro series awning casement window	1	Powder coated aluminium frame in colour Matt Appliance White	Metro Performance IGU obscured double glazing low E glass	First floor bathroom	Vantage Urbo venting window fastener
W07	1200 x 1500	APL Metro Residential Suite	1	Powder coated aluminium frame in colour Matt Appliance White	Metro Performance IGU clear double glazing low E glass	First floor rumpus	

### 3. BERHAMPORE TOWNHOUSE DETAILS

MAY 2022, REVIT.



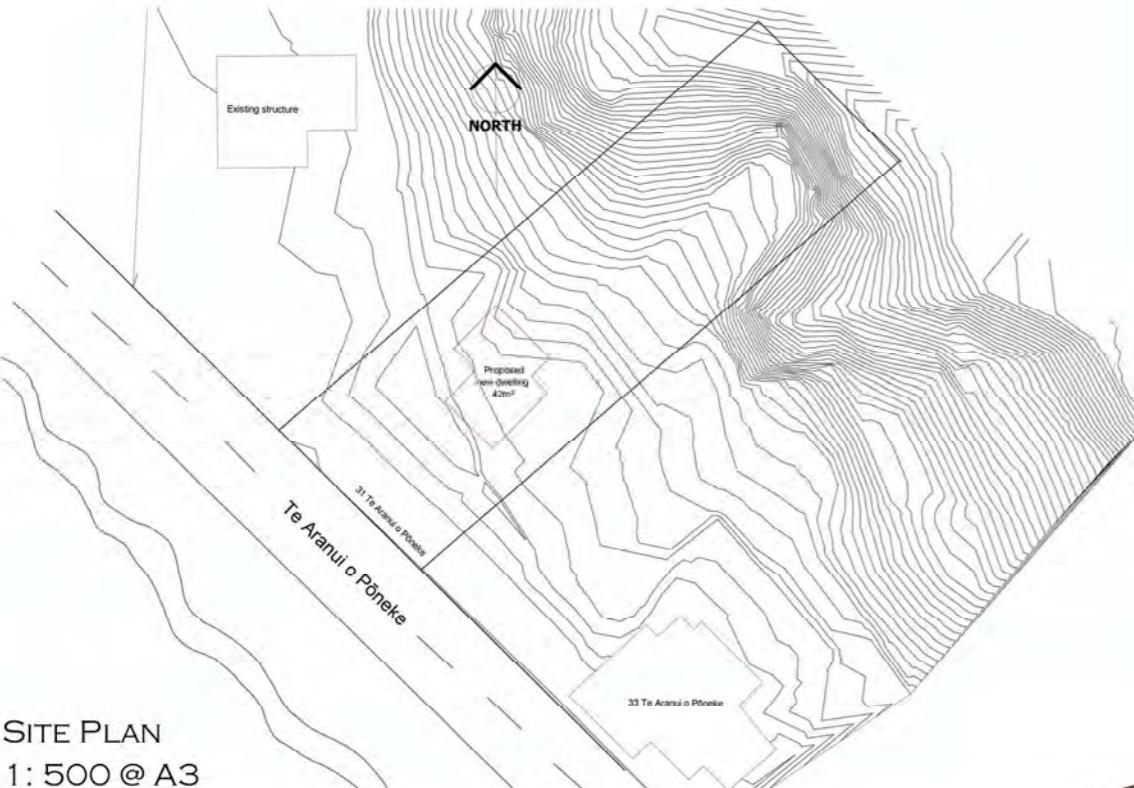
# 4. MANUMEA HOUSE

MAY 2022, REVIT, ENSCAPE.

MANUMEA HOUSE WAS A DESIGN PREPARED TO THE FOLLOWING BRIEF:

- A HOUSE FOR AN ARTIST WITH SPACES FOR WORKING, PREPARING FOOD, RESTING, AND BATHING
- A FLOOR PLAN OF LESS THAN 50 SQUARE METRES
- INCORPORATING PASIFIKA ELEMENTS INTO THE DESIGN SUCH AS MATERIALS, COLOURS, PATTERNS
- SUSTAINABLE, MEETING HOMESTAR 7.

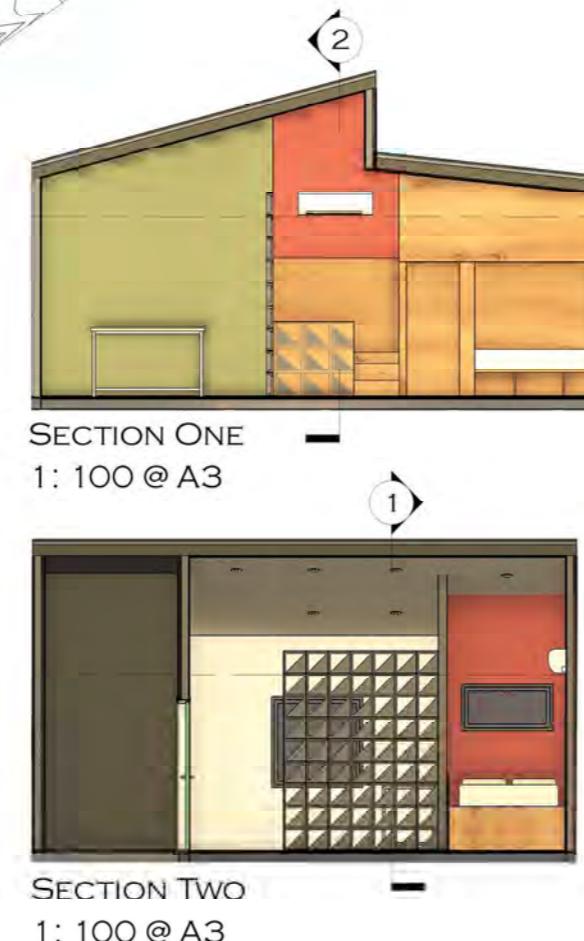
THE SITE IS 31 TE ARANUI O PONEKE ON THE SOUTH COAST OF WELLINGTON, CLOSE TO WELLINGTON AIRPORT AND ACROSS THE ROAD FROM THE SEA.



SITE PLAN  
1: 500 @ A3



FLOOR PLAN  
1: 100 @ A3, 42m²



SECTION ONE  
1: 100 @ A3

SECTION TWO  
1: 100 @ A3



EXTERIOR RENDER LOOKING EAST



**PREPARE FOOD**  
A SPACIOUS KITCHEN WITH AN ISLAND PROVIDING SEATING FOR GUESTS.



**WORK**  
A PATTERNED BREEZE BLOCK SCREEN DIVIDES THE STUDIO SPACE FROM THE REST OF THE HOUSE WHILE LETTING IN LIGHT.



**REST**  
PLYWOOD JOINERY PROVIDES SPACES FOR SLEEPING AND RELAXING. PART OF THE JOINERY CONTAINS THE SAME PATTERN AS THE SCREEN.



**RELAX**  
PLYWOOD JOINERY DIVIDES THE REST SPACE INTO AREAS FOR SLEEPING, RELAXING, AND STORAGE.



THE MANUMEA, A NATIVE BIRD OF THE PACIFIC. IT'S PLUMAGE IS REFERENCED IN THE PAINT COLOURS USED IN THE HOUSE.

# 5. NORTH PEAK HOUSE

NOVEMBER 2021 ARCHICAD, PHOTOSHOP.



GROUND FLOOR  
1 : 100 @ A3



MEZZANINE FLOOR  
1 : 100 @ A3



SECTION  
1 : 100 @ A3

THE NORTH PEAK HOUSE WAS A DESIGN PREPARED TO THE FOLLOWING BRIEF:  
 - A SMALL HOUSE FOR 1 TO 2 PEOPLE  
 - A FOOTPRINT TO FIT AT THE FRONT OF AN EXISTING PROPERTY ON NORTH STREET IN PETONE  
 - A DESIGN THAT IS REUSABLE AND WOULD FIT IN OTHER SETTINGS.



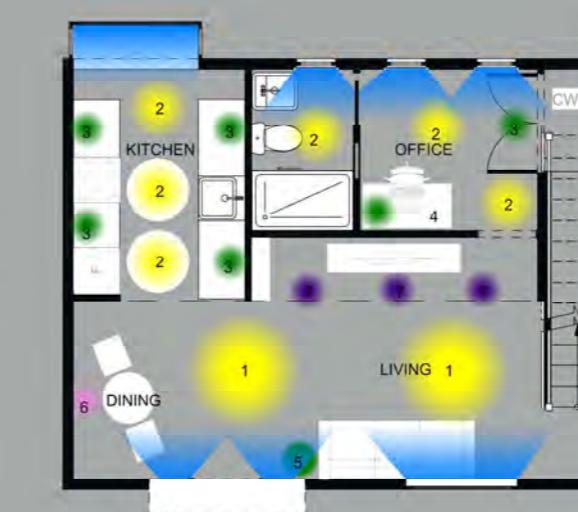
EXTERIOR RENDER - PETONE



INTERIOR RENDER



EXTERIOR RENDER - QUEENSTOWN



Minimum and Recommended lumen of lighting objects

Room	Minimum lux	Area (m²)	Minimum lumens	Recommended lumens
Living room	20	10	200	1038
Dining room	20	5	100	3503
Bedroom	20	13	260	3114

LIGHTING PLAN

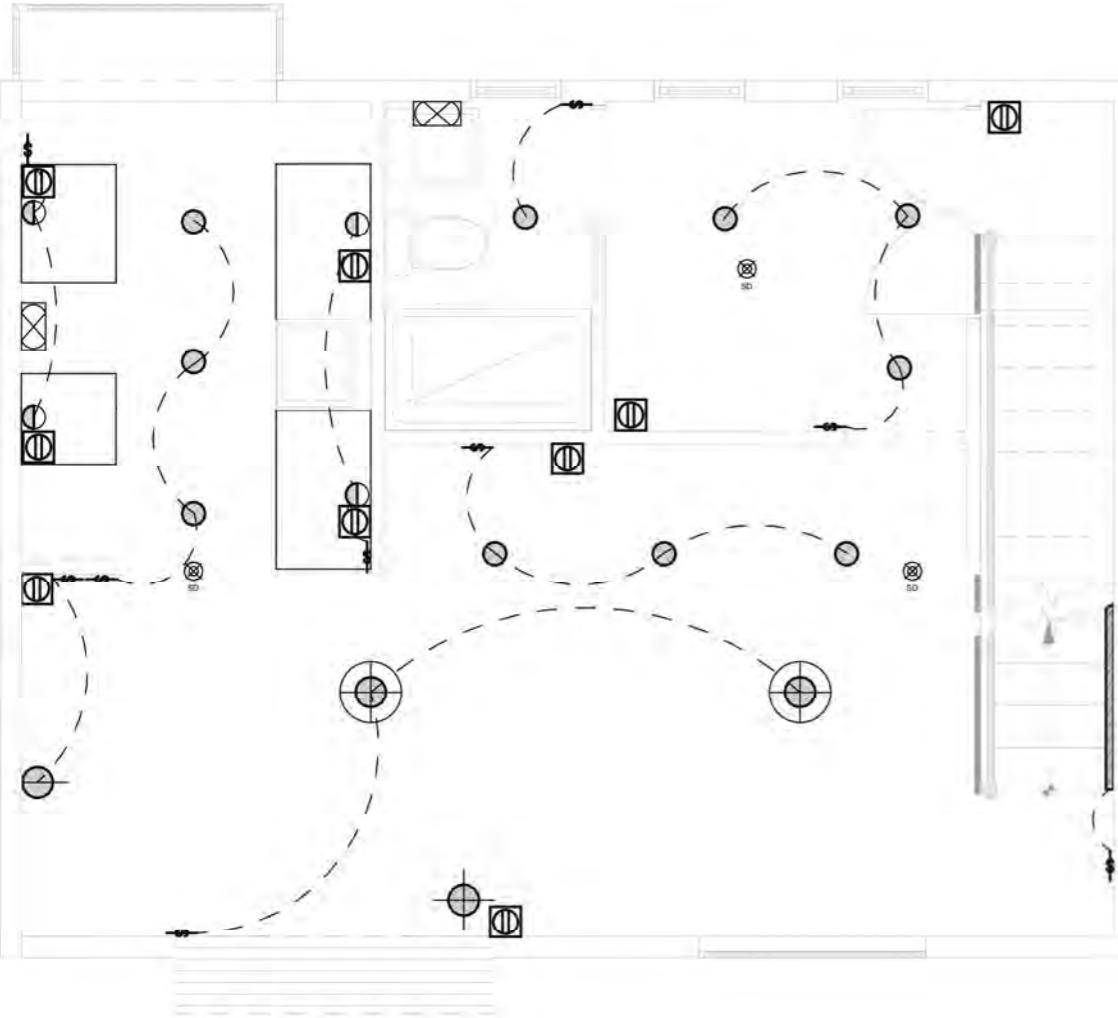
1 : 100 @ A3

Layers of light:  
 - Accent  
 - Task  
 - Ornamental  
 - Ambient  
 - Daylight

Legend  
 1. 500mm pendant fixture suspended 2.3m from double-height ceiling  
 2. Ceiling mounted recessed downlight  
 3. Ceiling mounted directional recessed downlight  
 4. Desk lamp for study  
 5. 1.5m high floor lamp for reading  
 6. Wall-mounted light fixture 1.8m above finished floor level  
 7. Ceiling mounted directional recessed downlight  
 8. Wall-mounted LED strip light

# 5. NORTH PEAK HOUSE

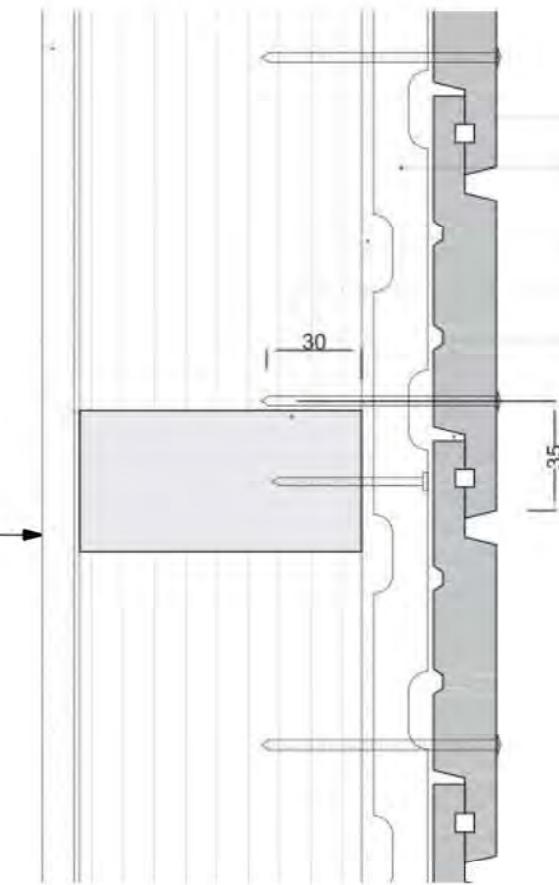
NOVEMBER 2021 ARCHICAD.



## Electrical Legend

- Switch
- pendant fixture
- Recessed Downlight
- Surface Mounted Wall Fixture
- LED Tape Light
- Recessed Directional Fixture
- Outlet
- Smoke Detector
- Extractor

Detail from  
manufacturer's website.  
[abodo.co.nz](http://abodo.co.nz)



- Abodo** shiplap weatherboard
- Horizontal castellated and bevelled cavity batten
- Building wrap
- Wall framing
- 2mm expansion gap
- Fixing to be 35mm max from end of board

S.D. WALL CLADDING  
1 : 5 @ A3

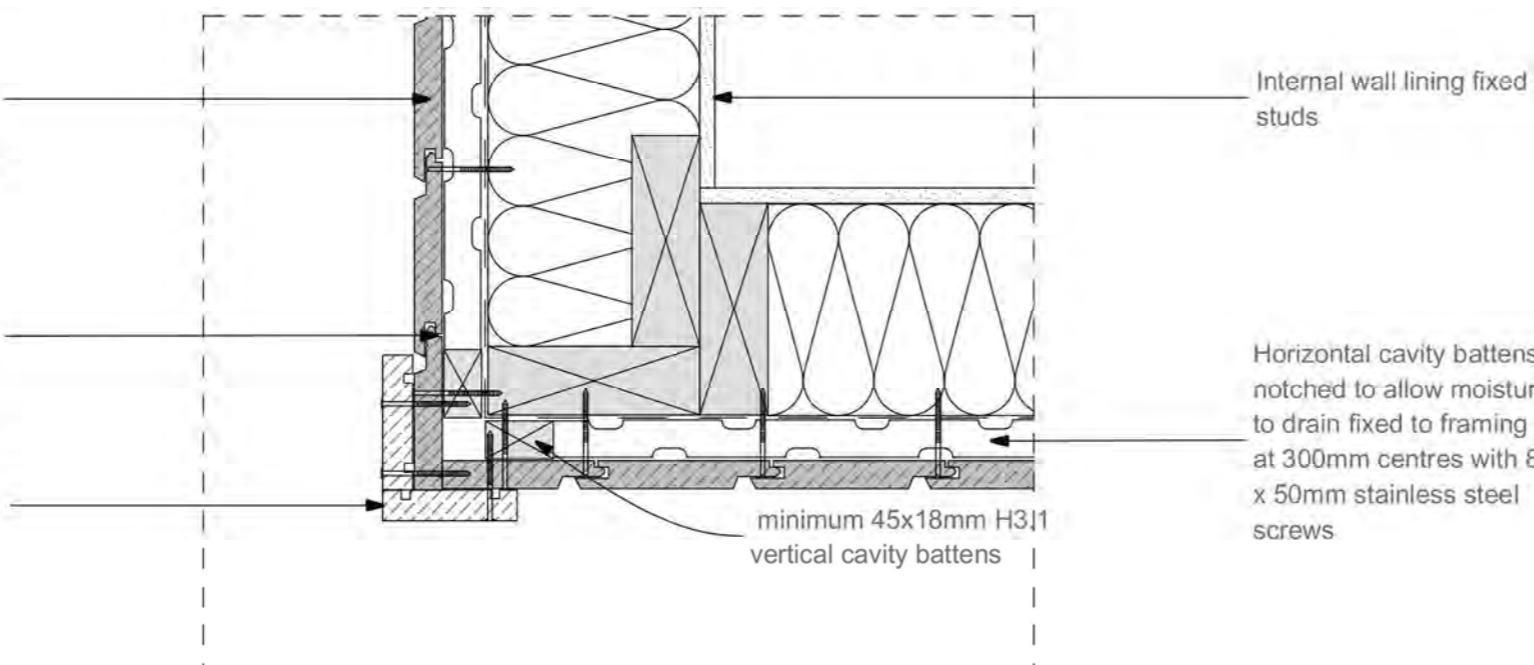
## ELECTRICAL PLAN

1 : 50 @ A3

vertical boards fixed to  
horizontal battens at  
maximum 480 centres  
with 70 x 3.15mm hot dip  
galvanised jolt head nails

2mm expansion gap  
between boards

Abodo A91 cover boards  
with 6mm  
weathergrooves fixed  
through cladding to  
vertical battens



P.D. WALL CORNER DETAIL

1 : 5 @ A3