

**ARCHITECTURAL DESIGN OF PROPOSED 3
BEDROOM APARTMENT
LOCATED AT NORTH LEGON**

NOTES

All measurements are in millimeters.

All dimensions are to be checked on site before commencement of work

Any discrepancy between the architectural drawings relevant to construction should be notified before commencement.

DRAWN BY:

Student

DATE

11/03/2022

PROJECT NAME

Proposed Three Bedroom Residential Building

CLIENT:

Deseret School of Design

SHEET TITLE

Sheet List

SCALE PROJECT NO

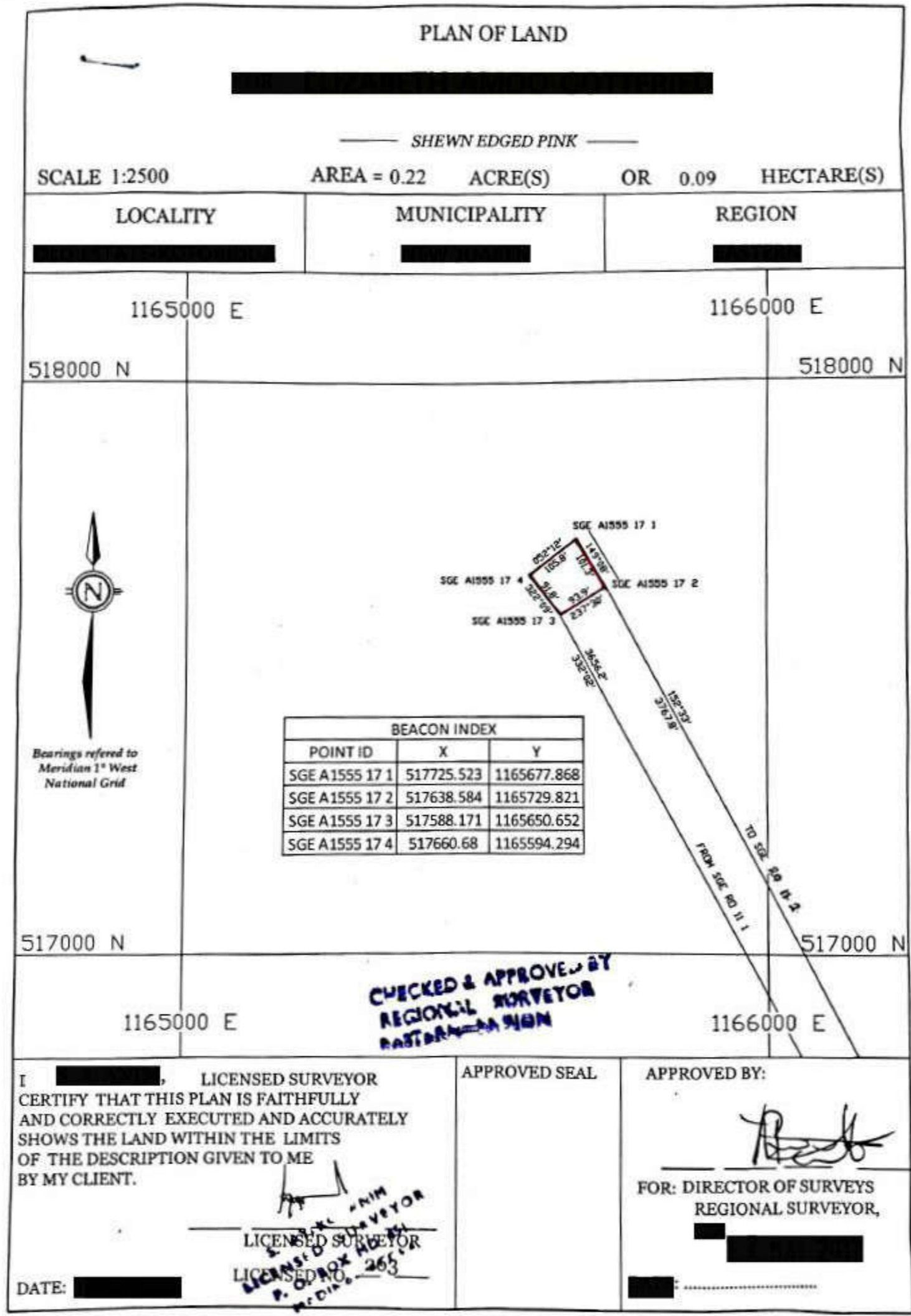
026

SHEET NO

01

Sheet List

Sheet Number	Sheet Name
02	Site Plan
03	Block Plan
05	Foundation Plan
06	Ground Floor Plan
08	First Floor Plan
10	Front and Back Elevation
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SHEET TITLE
 Site Plan

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SHEET NO

02

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Block Plan

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1 : 200 026

SHEET NO

03



1

Block Plan

1 : 200

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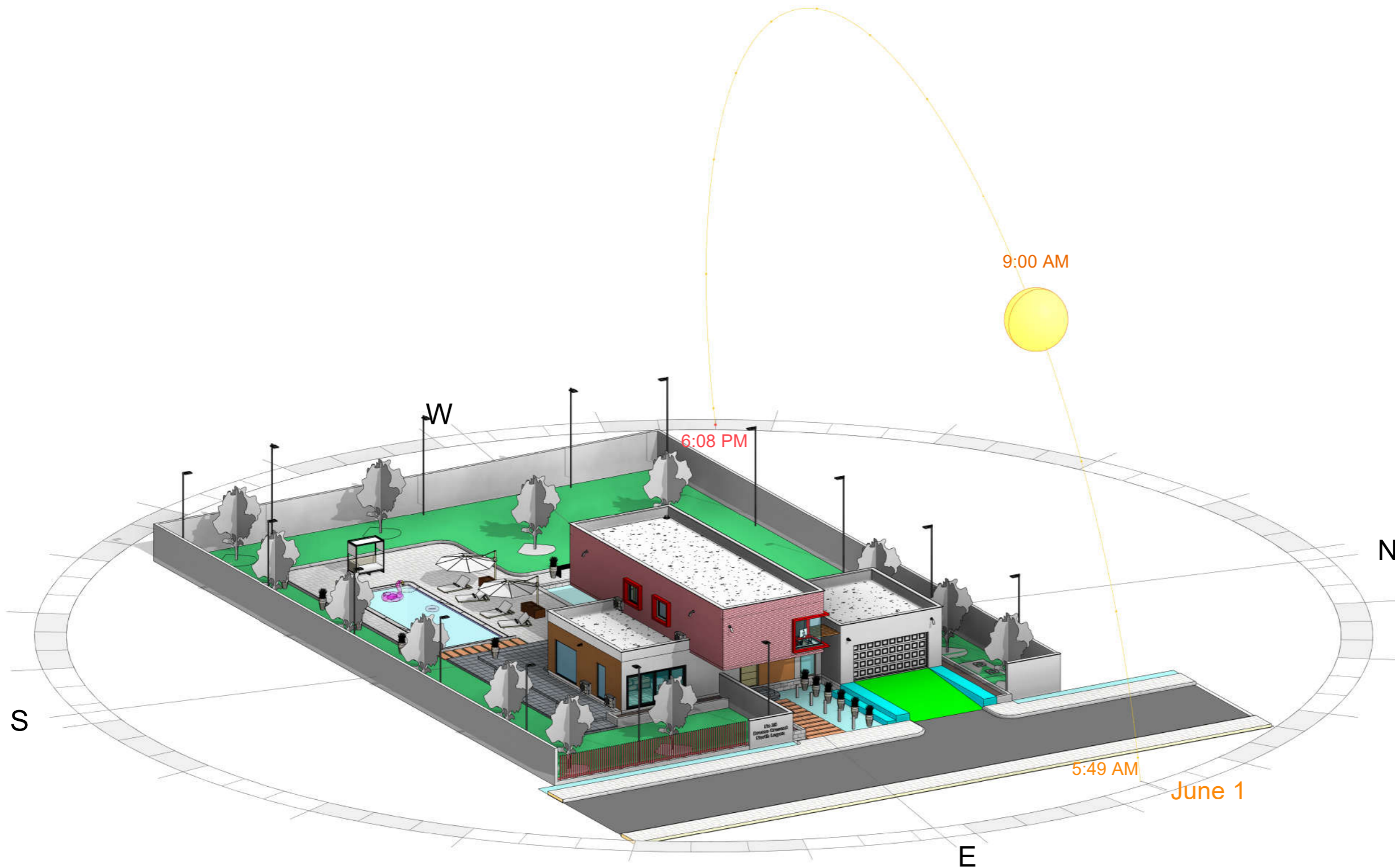
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SHEET TITLE
 Solar Study

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SHEET NO

04



1 Solar Study

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SHEET TITLE

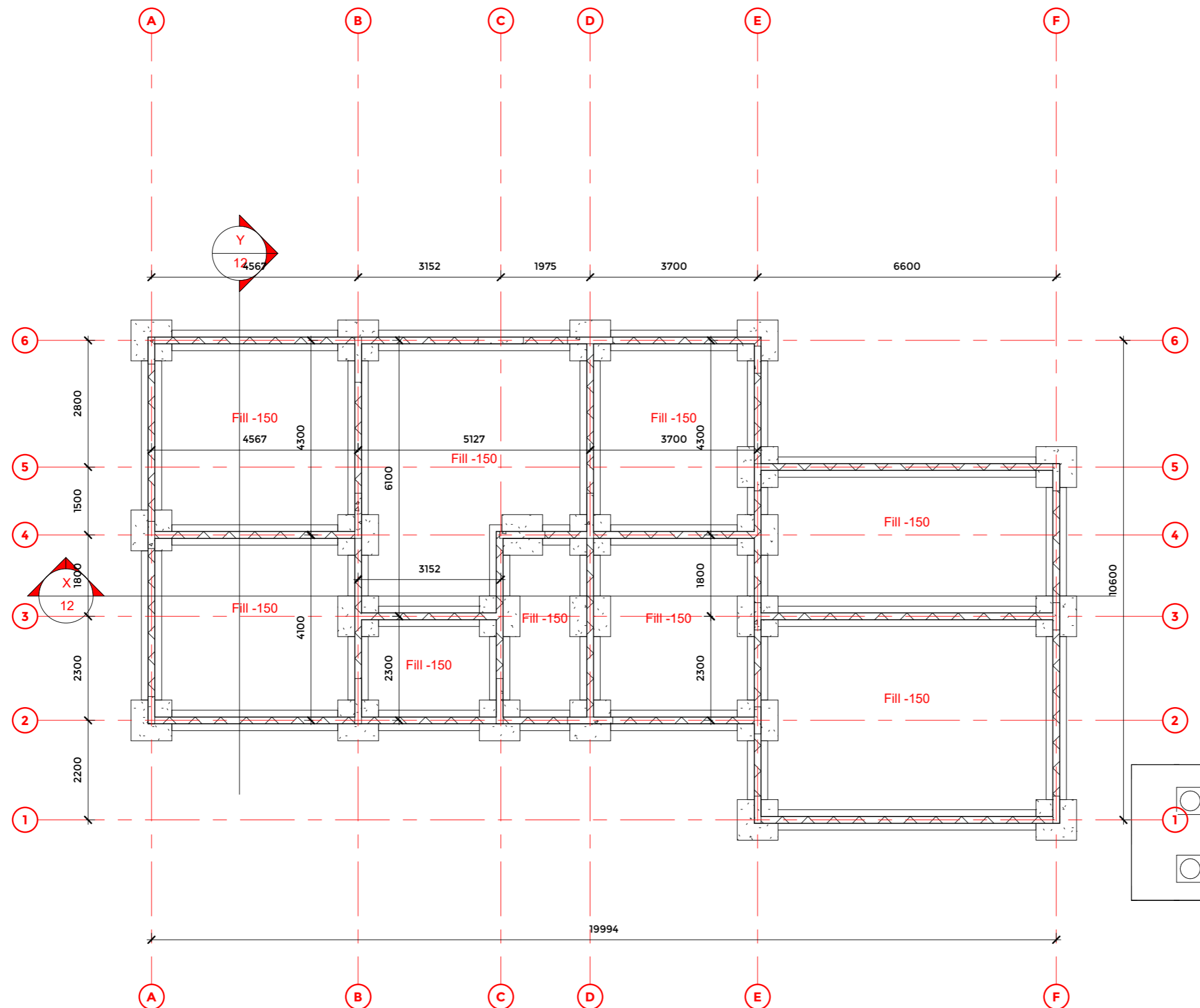
Foundation Plan

SCALE PROJECT NO

1:100 026

SHEET NO

05



1 **Foundation**
1:100

NOTES

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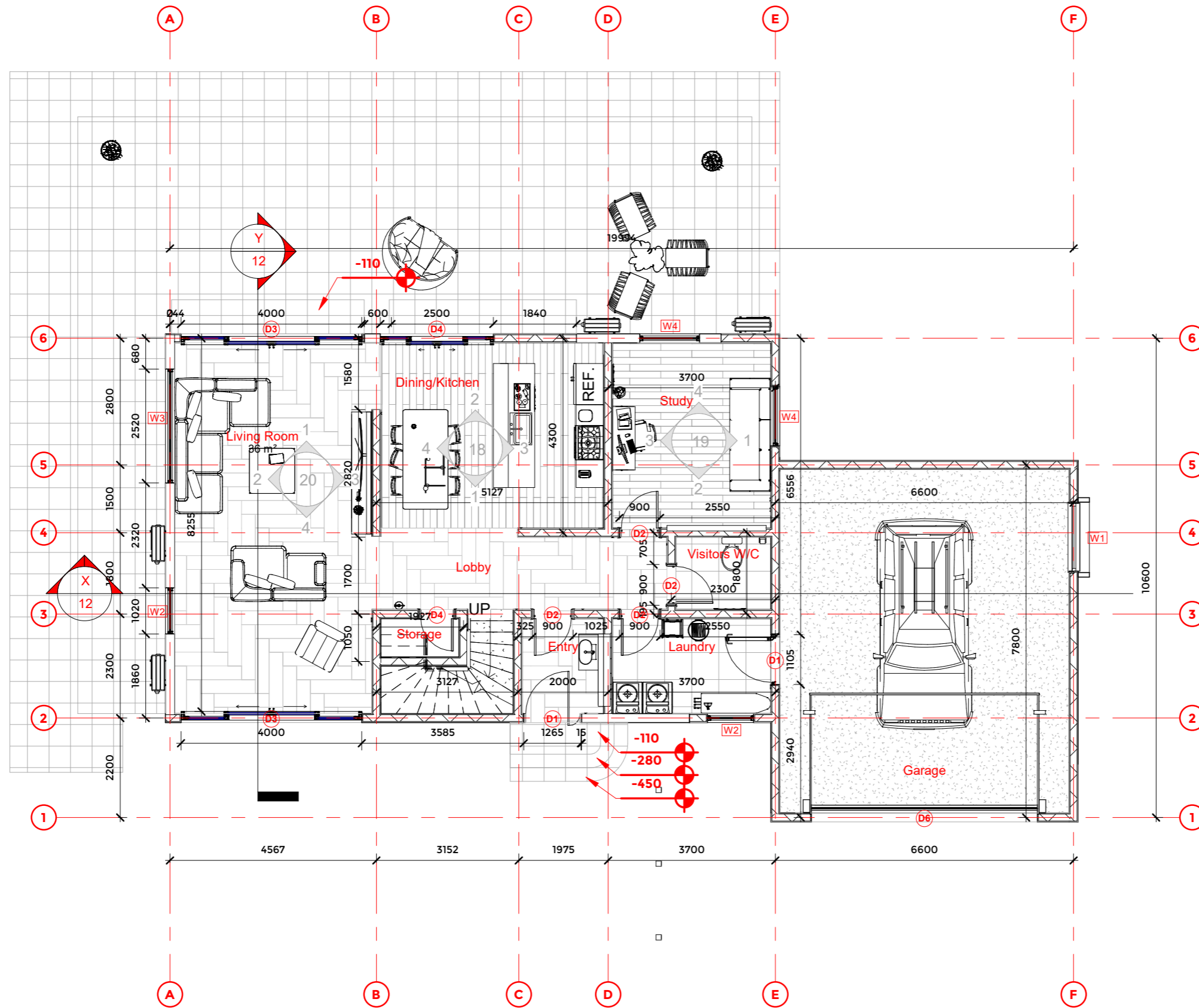
Ground Floor Plan

SCALE PROJECT NO

1:100 026

SHEET NO

06



1 **Ground Floor**
1:100

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SHEET TITLE
 Ground Floor Legend

SCALE 1:100	PROJECT NO 026
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First Floor Color Legend

- | | | |
|------------------|---------------|----------------|
| ■ Dining/Kitchen | ■ Living Room | ■ Visitors W/C |
| ■ Entry | ■ Lobby | |
| ■ Garage | ■ Storage | |
| ■ Laundry | ■ Study | |

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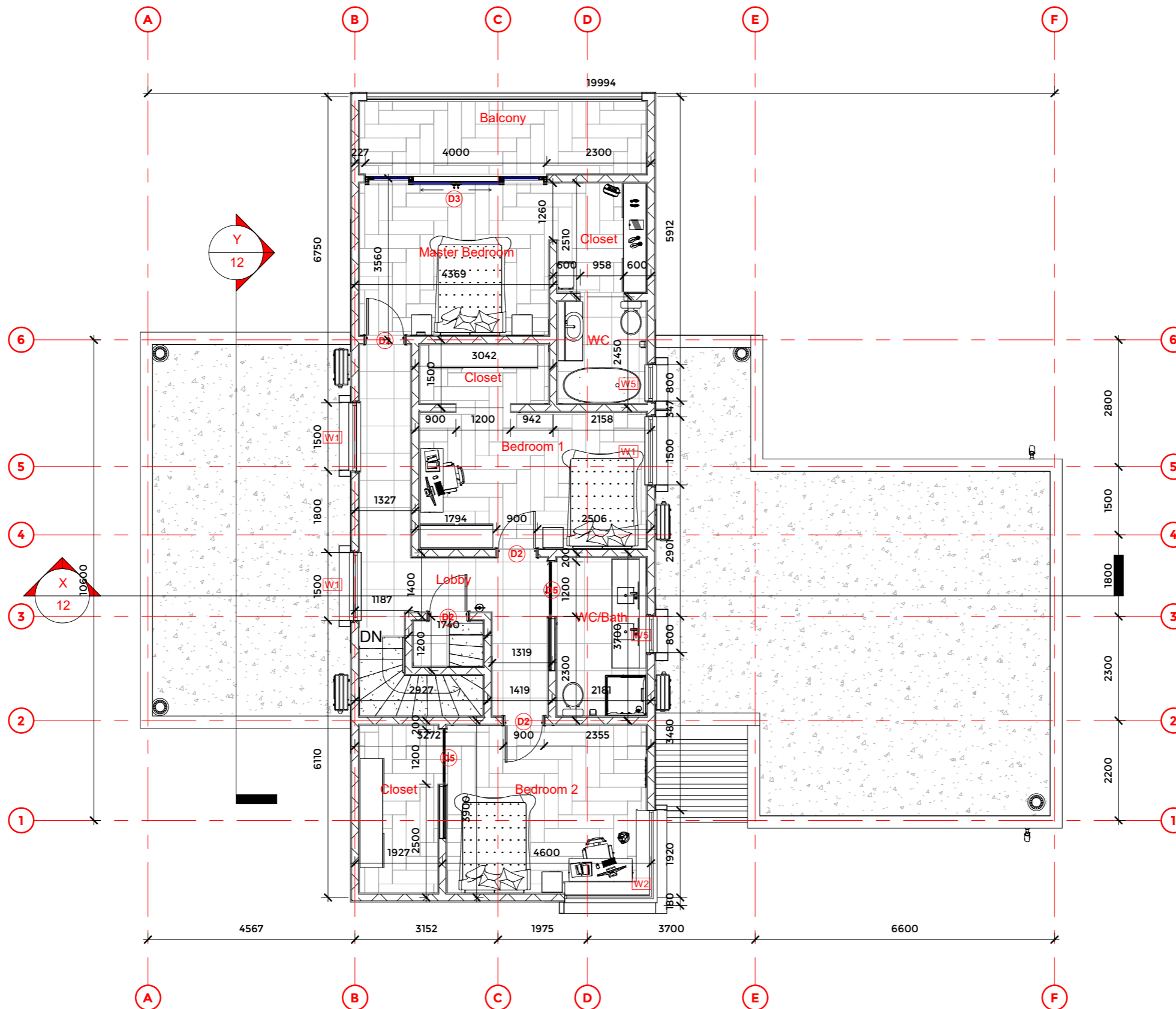
First Floor Plan

SCALE PROJECT NO

1:100 026

SHEET NO

08



1 First floor
1:100

NOTES

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SHEET TITLE
First Floor Legend

SCALE 1:100	PROJECT NO 026
-----------------------	--------------------------



First Floor Color Legend

1 **First Floor Legend** 1 : 100

■ Hallway	■ Closet	■ WC
■ Bedroom 1	■ Lobby	■ WC/Bath
■ Bedroom 2	■ Master Bedroom	

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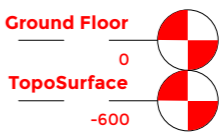
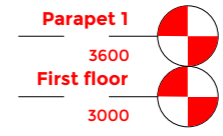
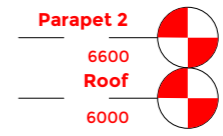
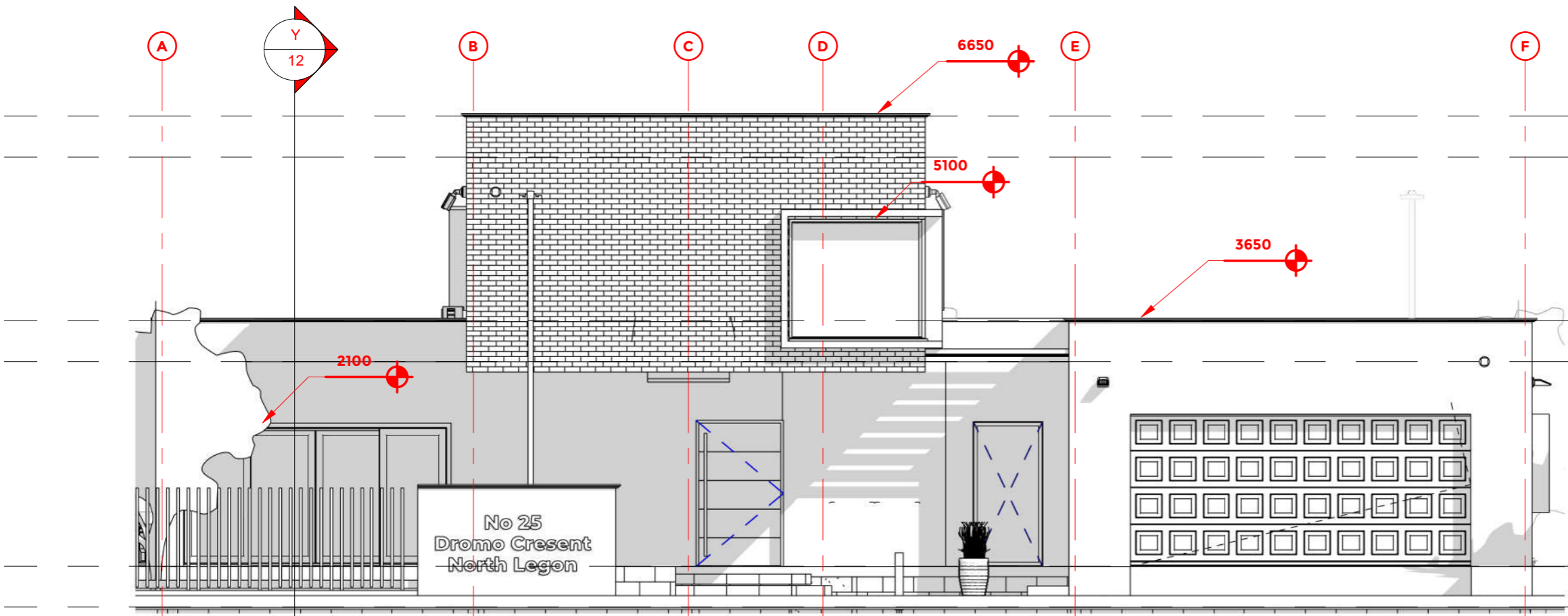
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SHEET TITLE
Front and Back Elevation

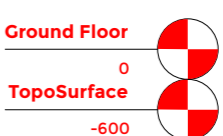
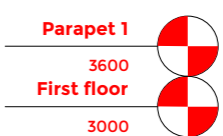
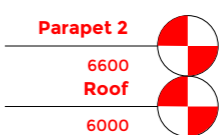
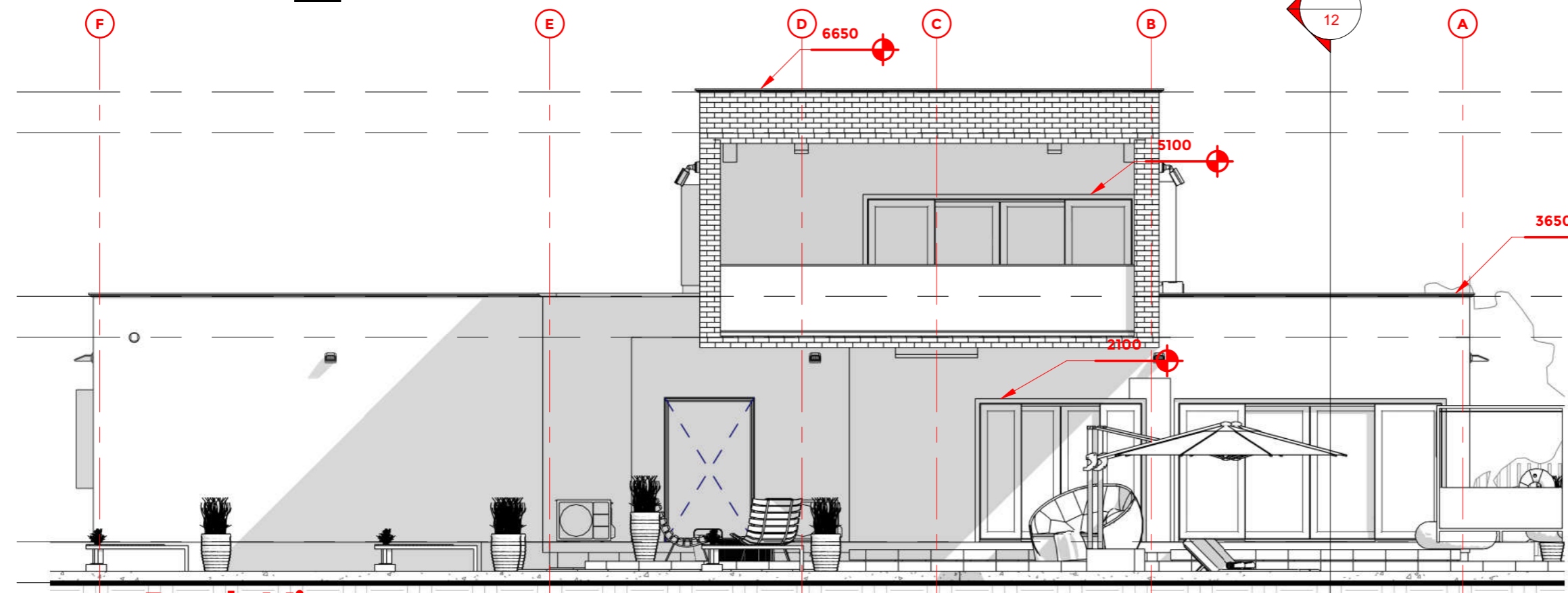
SCALE PROJECT NO
1:75 026

SHEET NO

10



1 Front View
1:75



2 Back View
1:75

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PROJECT NAME
Proposed Three
Bedroom Residential
Building

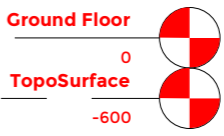
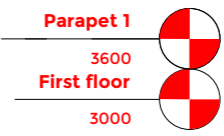
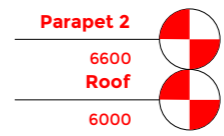
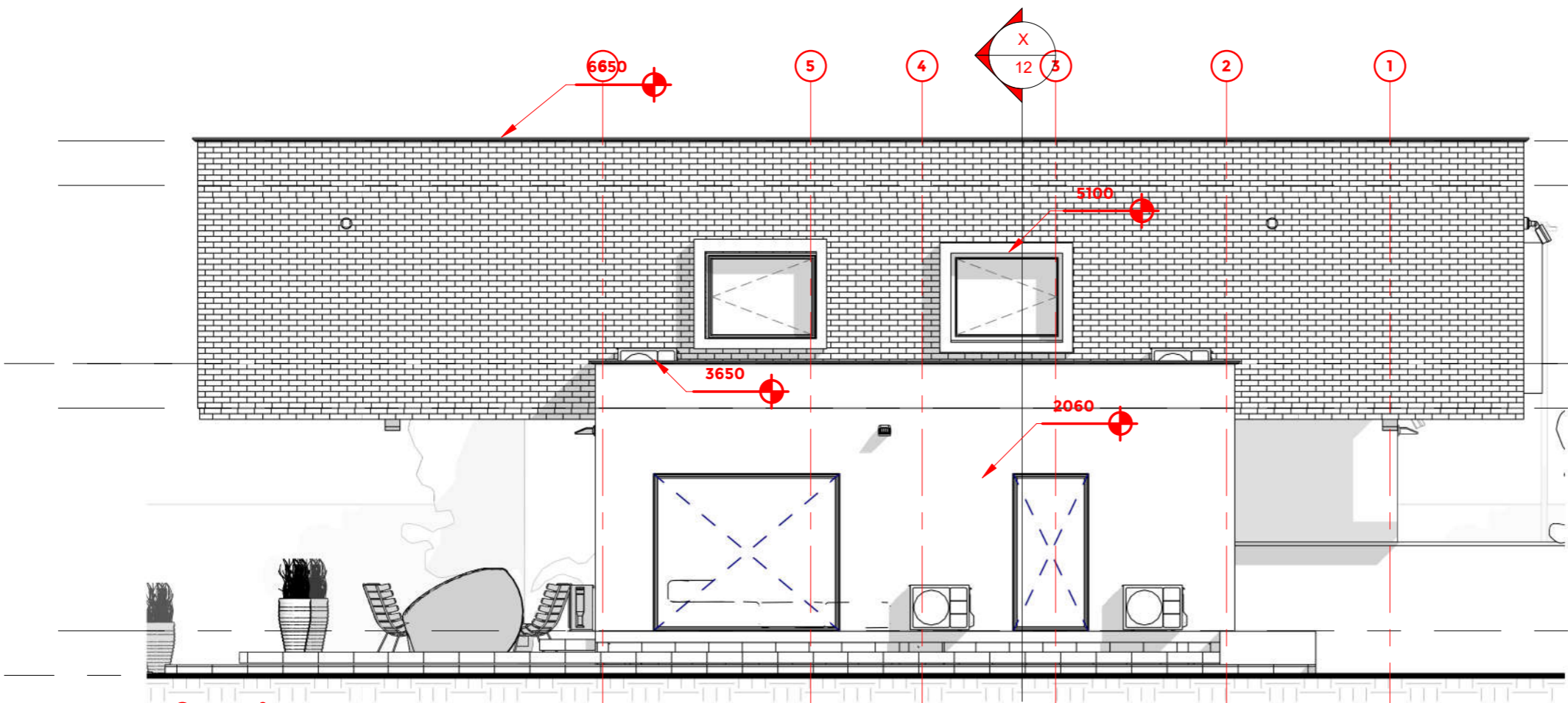
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SHEET TITLE
Left and Right Elevation

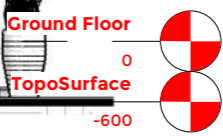
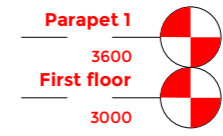
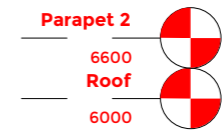
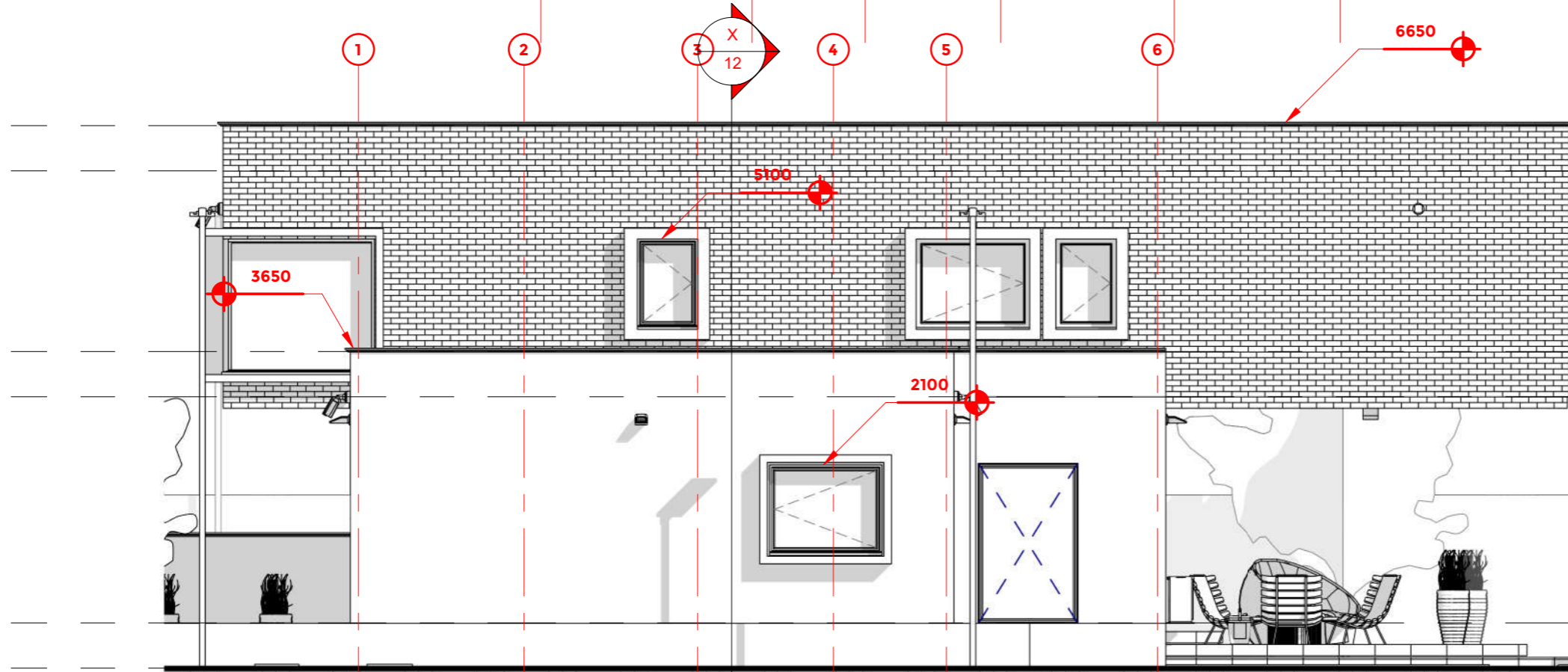
SCALE 1:75 **PROJECT NO** 026

SHEET NO

11



1 Left View
1:75



2 Right View
1:75

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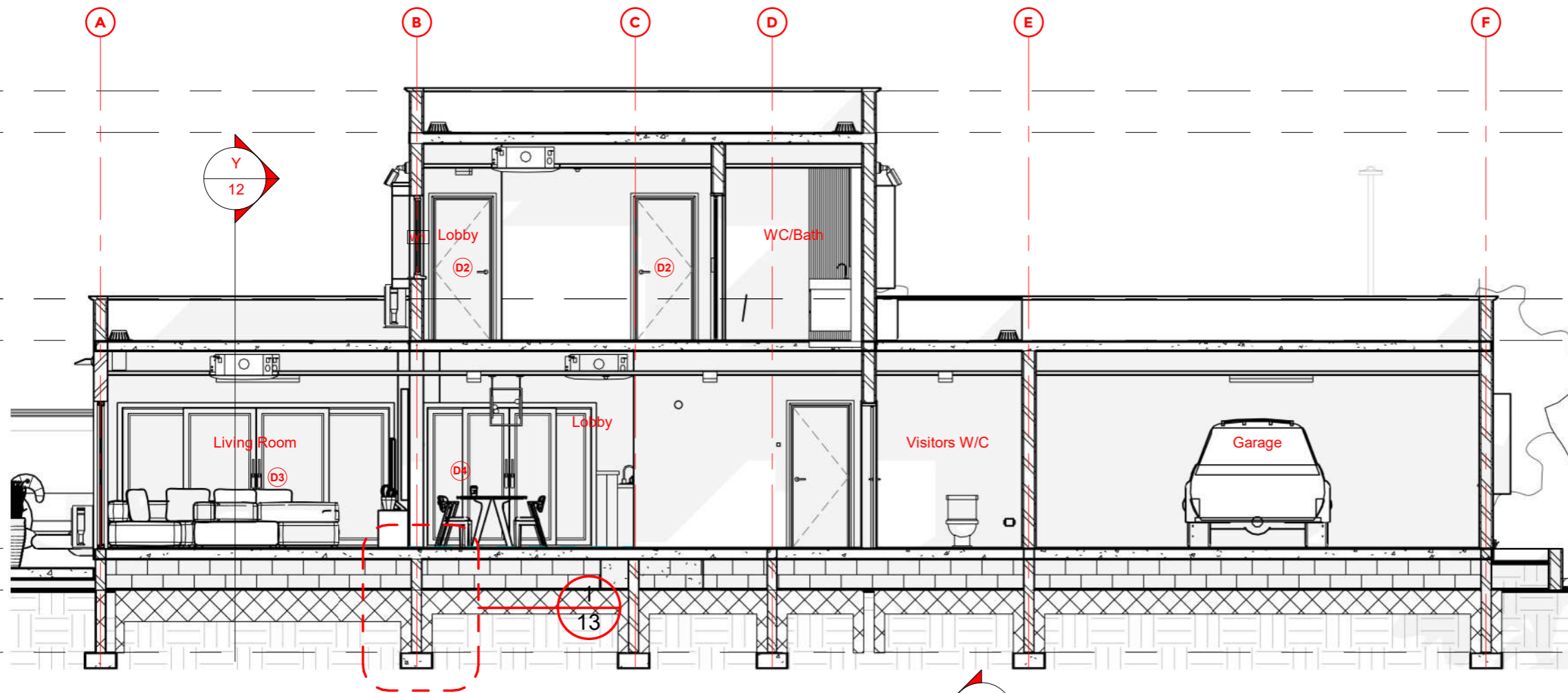
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SHEET TITLE
Sections

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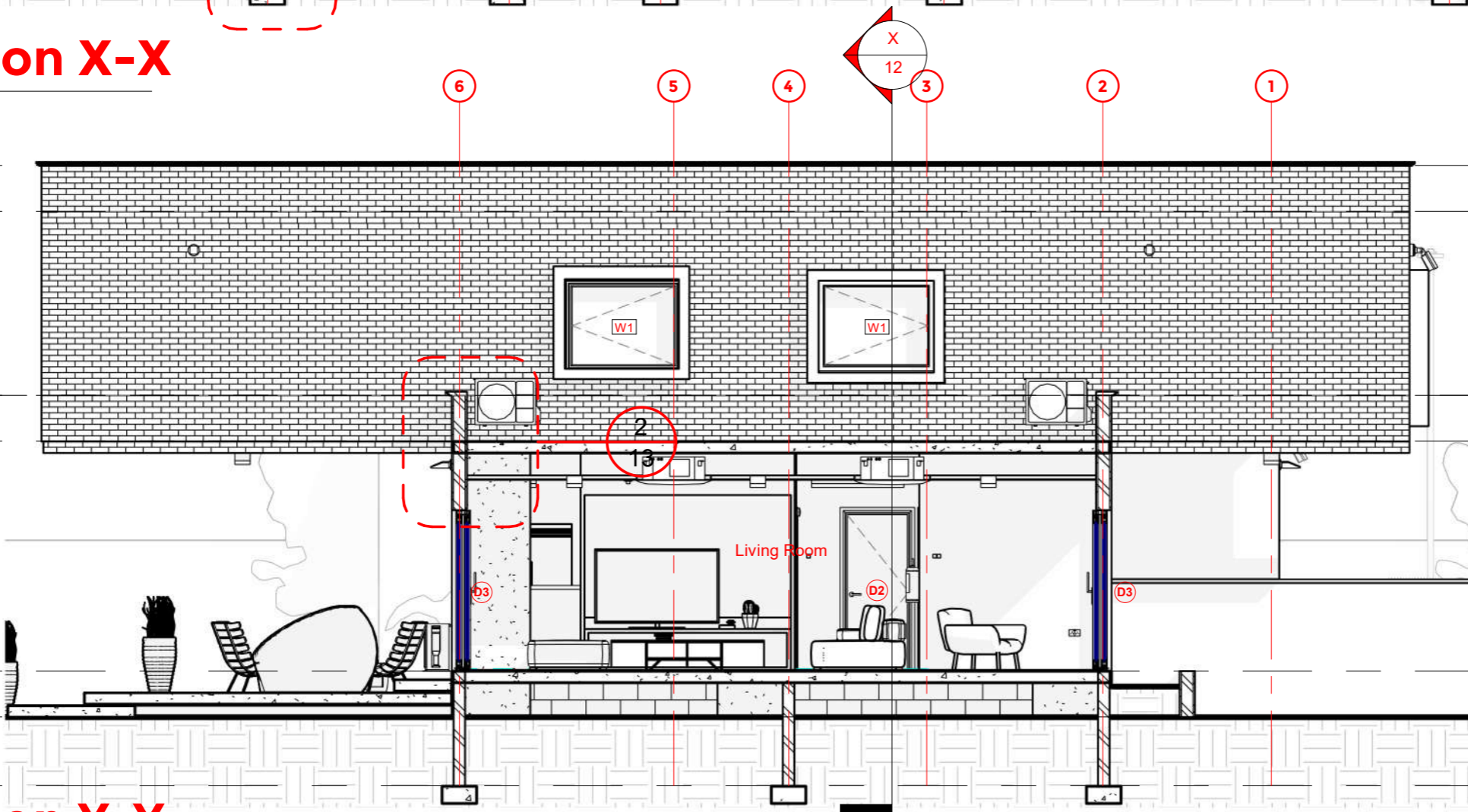
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12



Section X-X

1:75



Section Y-Y

1:75

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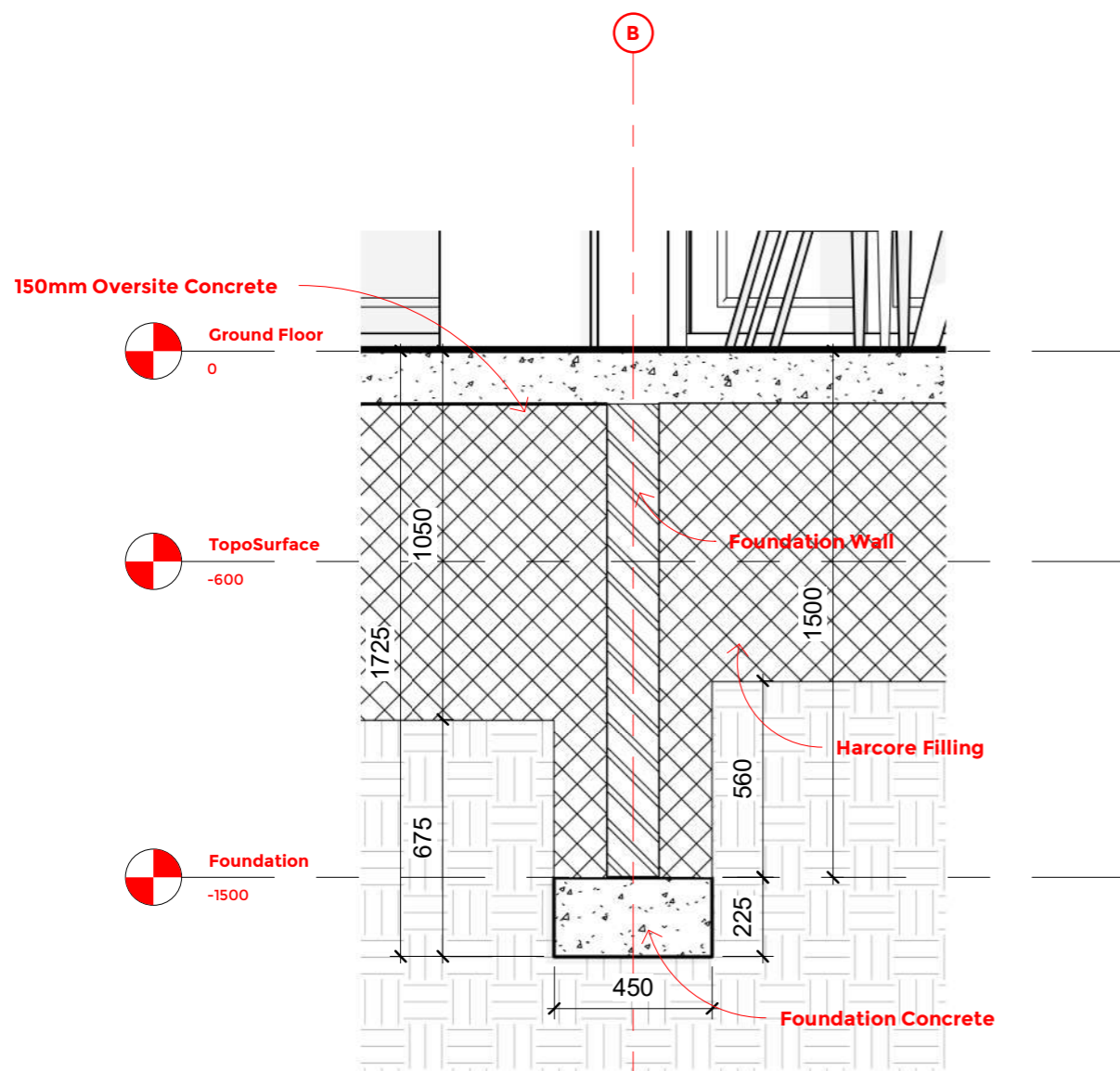
Details

SCALE PROJECT NO

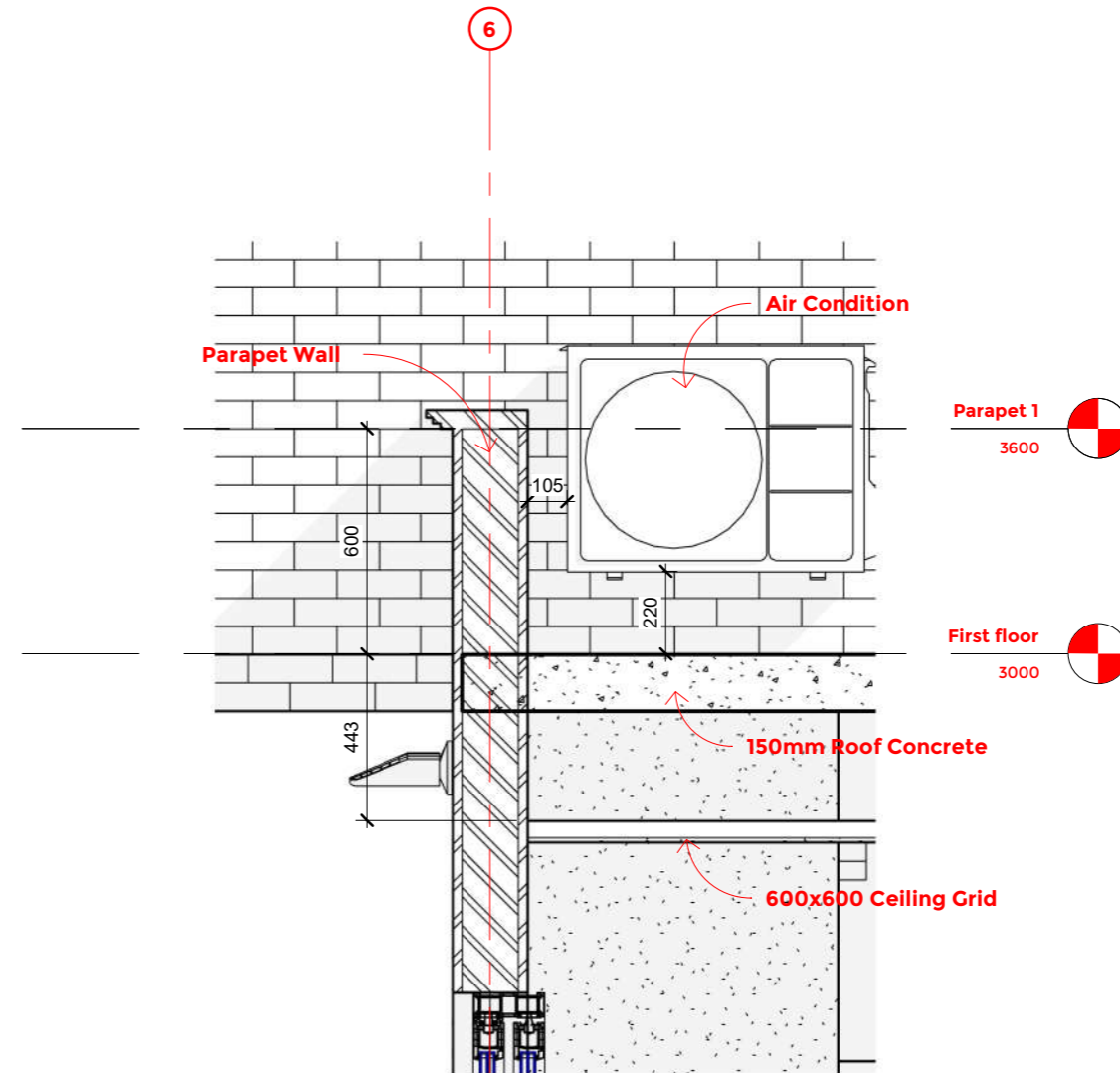
1:20 026

SHEET NO

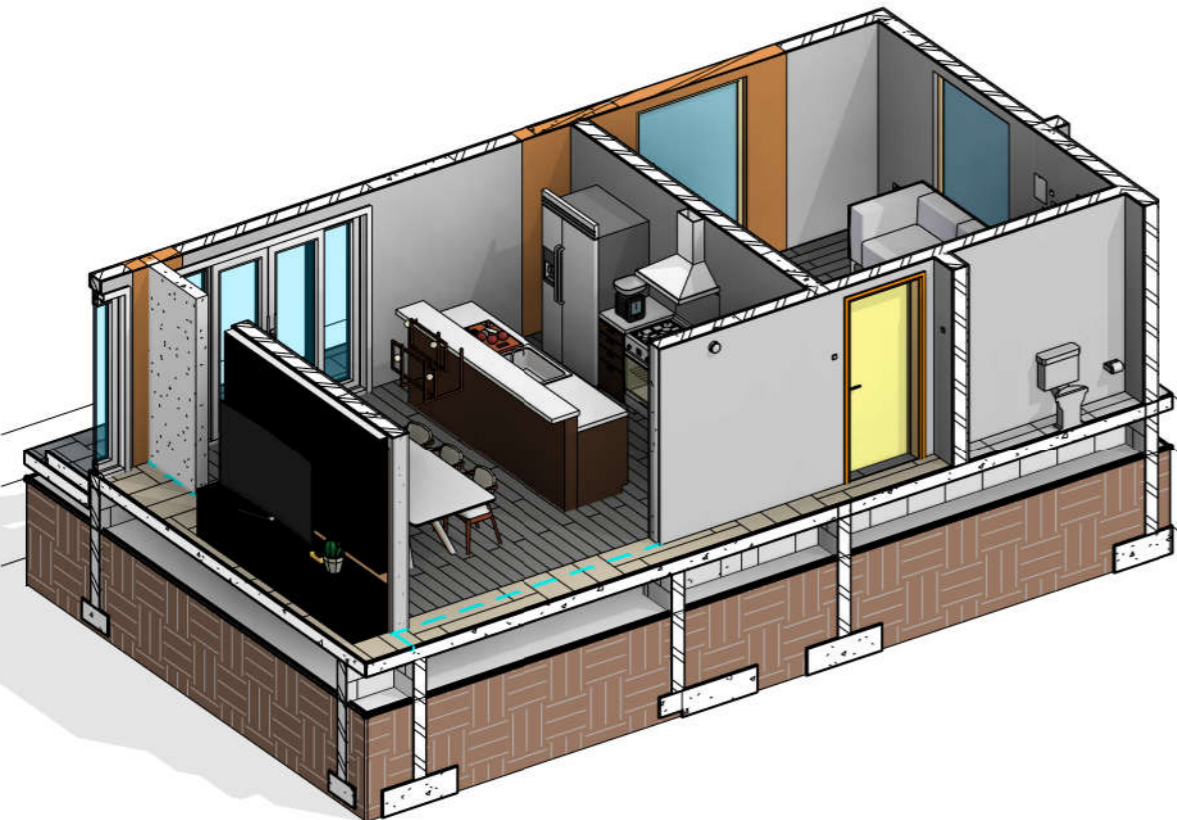
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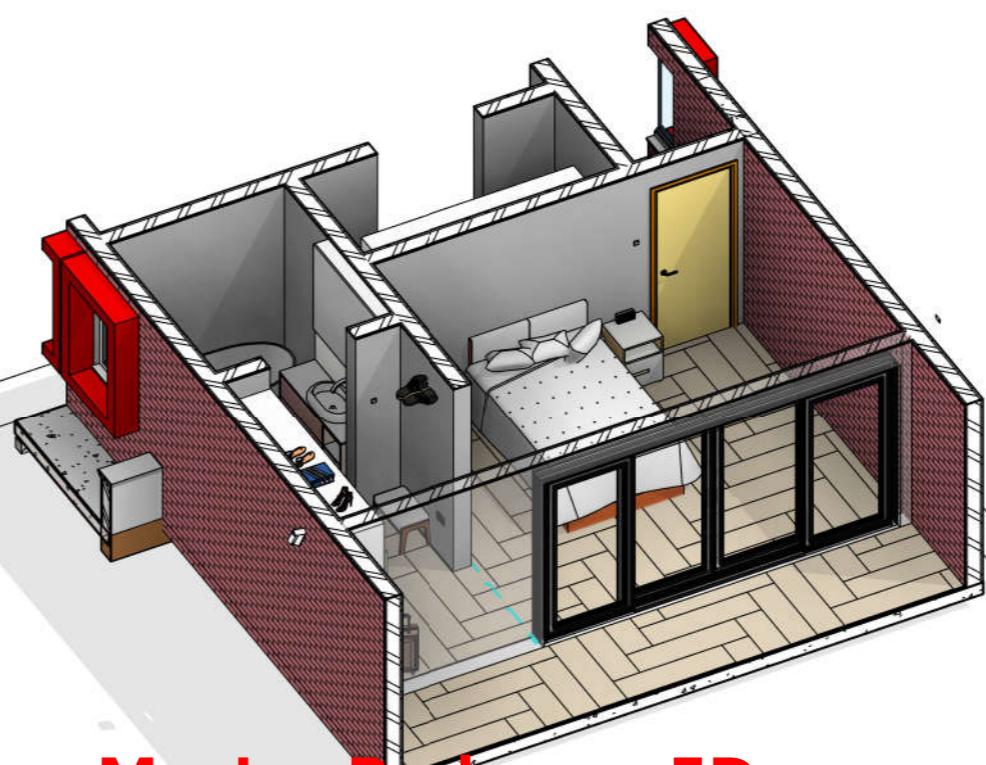
1 Details at Foundation
1:20



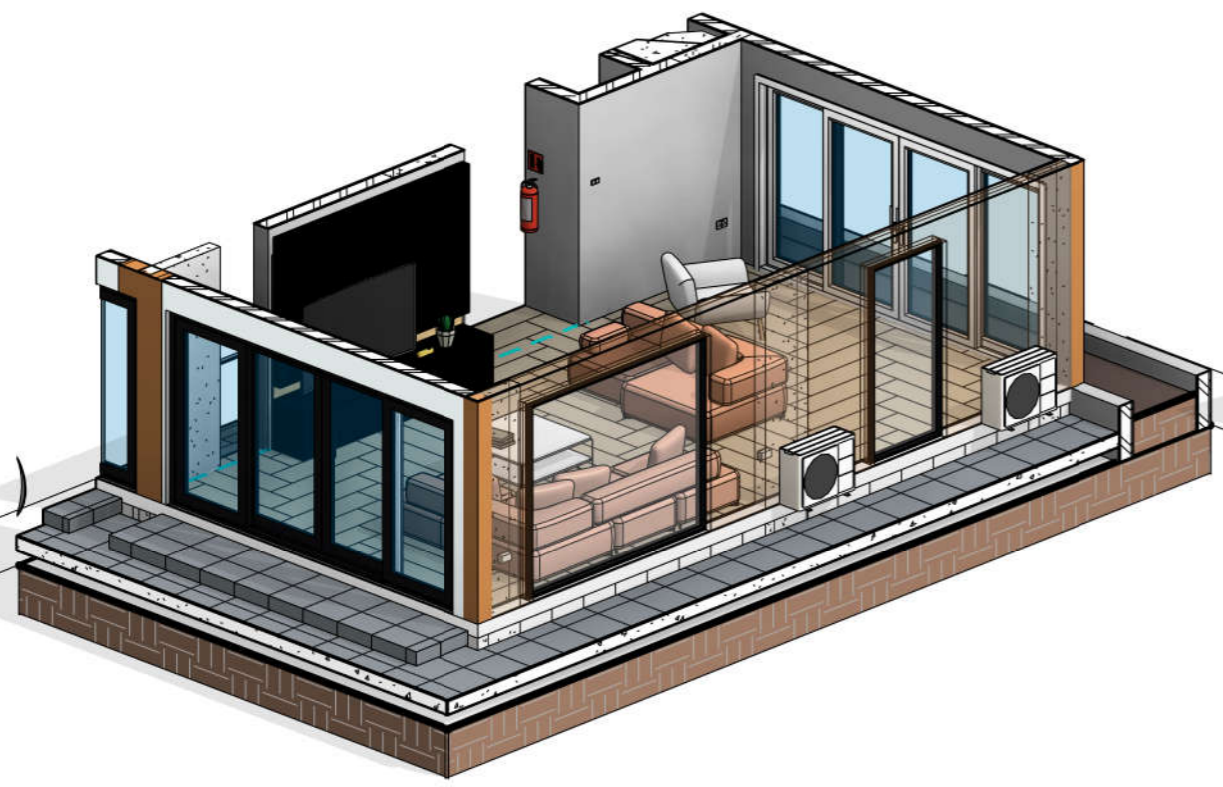
2 Detail at Eaves
1:20



1 Kitchen 3D View



3 Master Bedroom 3D



2 Living Room 3D View



4 Study 3D View

NOTES

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SHEET TITLE
3D Sections

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	026

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SHEET TITLE

Door Legend

SCALE PROJECT NO

1 : 40

026

SHEET NO

15

Description	Medal Panel and Framed Door	Wooden Flush Door	Metal Framed Sliding Door	Metal Framed Sliding Door
Tag	D1	D2	D3	D4
Quantity	1	8	3	1
Elevation				
Plan				

Description	Pocket Sliding Door	Metal Rolable Garadge Door
Tag	D5	D6
Quantity	1	1
Elevation		
Plan		

Door Schedule

Mark	Count
D1	2
D2	8
D3	3
D4	2
D5	2
D6	1

Door Legend

1 : 40

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SHEET TITLE
Window Legend

SCALE **PROJECT NO**
1 : 40 026

SHEET NO

16

Description	Fixed Glass Window	Fixed Glass Window	Fixed Glass Window	Fixed Glass Window	Fixed Glass Window
Tag	W1	W2	W3	W4	W5
Quantity	4	2	3	2	2
Elevation					
Plan					

Window Legend
1 : 40

Window Schedule

Mark	Count
W1	4
W2	3
W3	1
W4	2
W5	2

Door Schedule

Mark	Count
D1	2
D2	8
D3	3
D4	2
D5	2
D6	1

Window Schedule

Mark	Count
W1	4
W2	3
W3	1
W4	2
W5	2

Room Schedule

Name	Area	Perimeter	Volume
Garage	49 m ²	28000	121.11 m ³
Visitors W/C	3 m ²	7400	8.37 m ³
Entry	4 m ²	7800	9.41 m ³
Study	14 m ²	15200	35.73 m ³
Laundry	7 m ²	11200	18.30 m ³
Lobby	15 m ²	24708	38.97 m ³
Dining/Kitchen	21 m ²	18579	52.19 m ³
Closet	6 m ²	10854	15.91 m ³
Bedroom 2	16 m ²	16200	40.54 m ³
Lobby	17 m ²	32773	42.15 m ³
WC/Bath	7 m ²	10961	17.26 m ³
Bedroom 1	15 m ²	16400	37.95 m ³
Master Bedroom	14 m ²	15059	34.88 m ³
Balcony	10 m ²	15854	28.75 m ³
Closet	5 m ²	9135	12.37 m ³
WC	5 m ²	8815	11.44 m ³
Closet	4 m ²	8285	9.20 m ³
Storage	1 m ²	5154	3.93 m ³

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SHEET TITLE
Schedules

SCALE **PROJECT NO**
026

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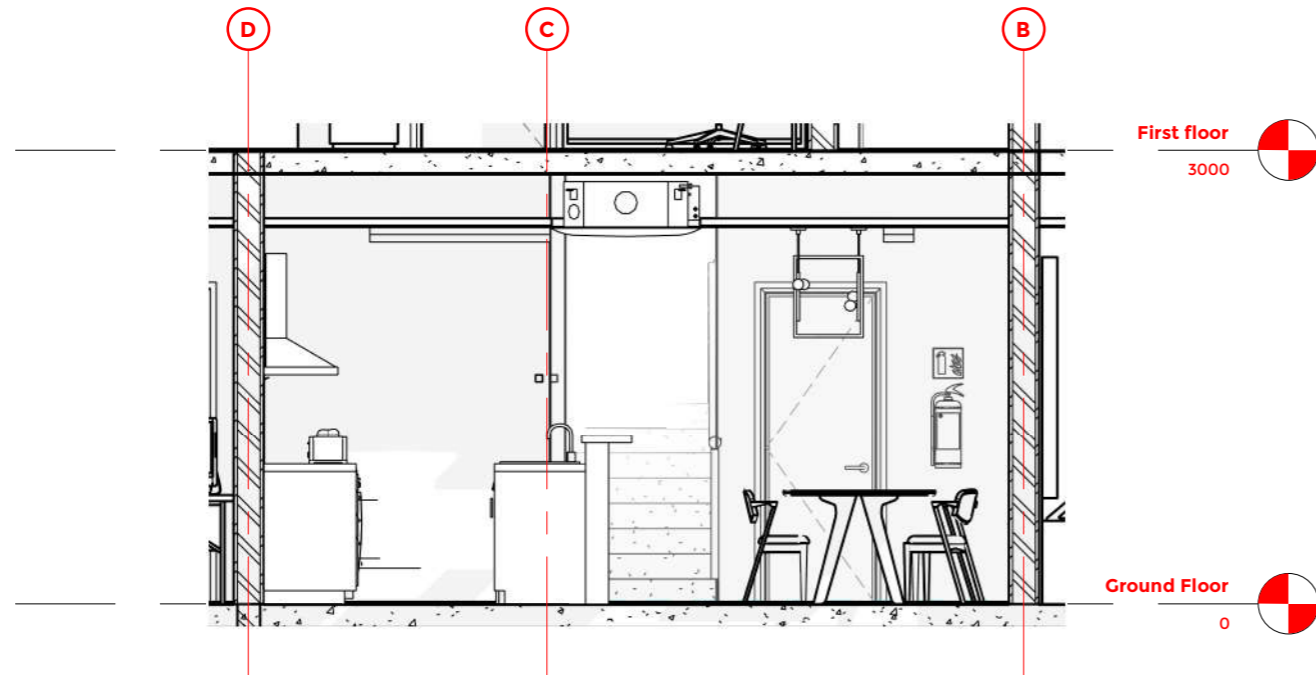
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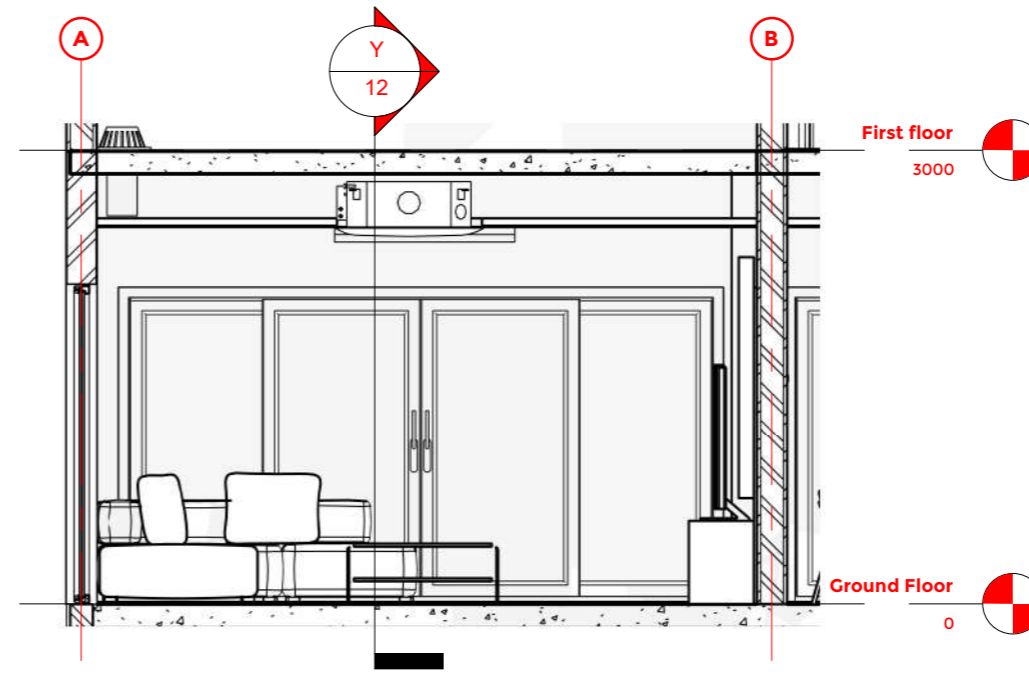
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SHEET TITLE
Kitchen Elevation

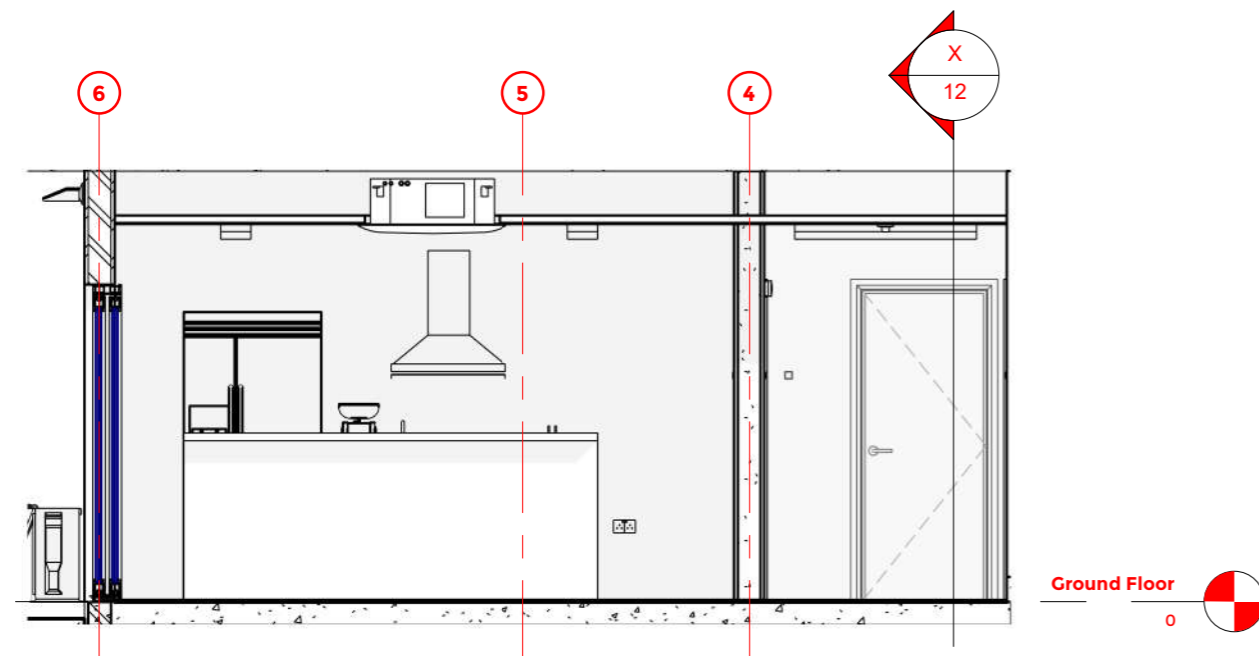
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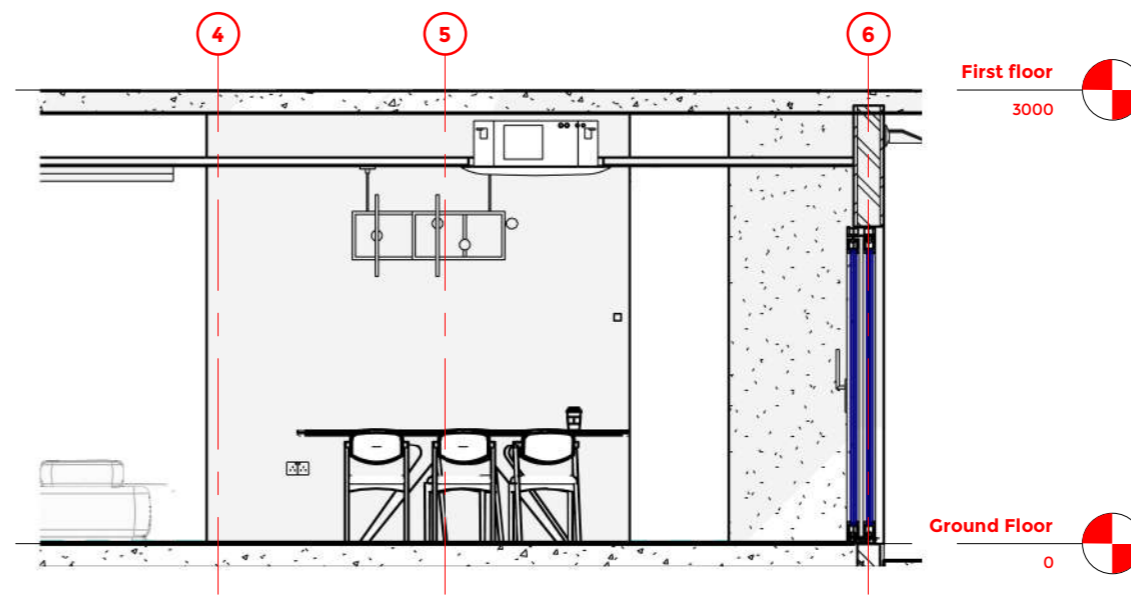
1 Kitchen Elevation 1
1:50



2 Kitchen Elevation 2
1:50



3 Kitchen Elevation 3
1:50



4 Kitchen Elevation 4
1:50

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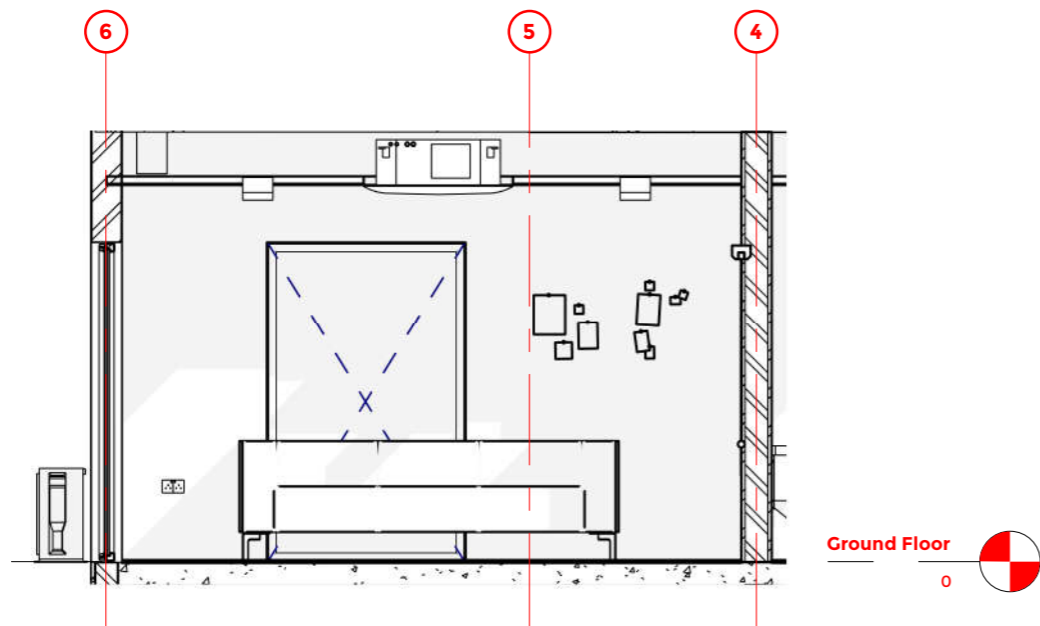
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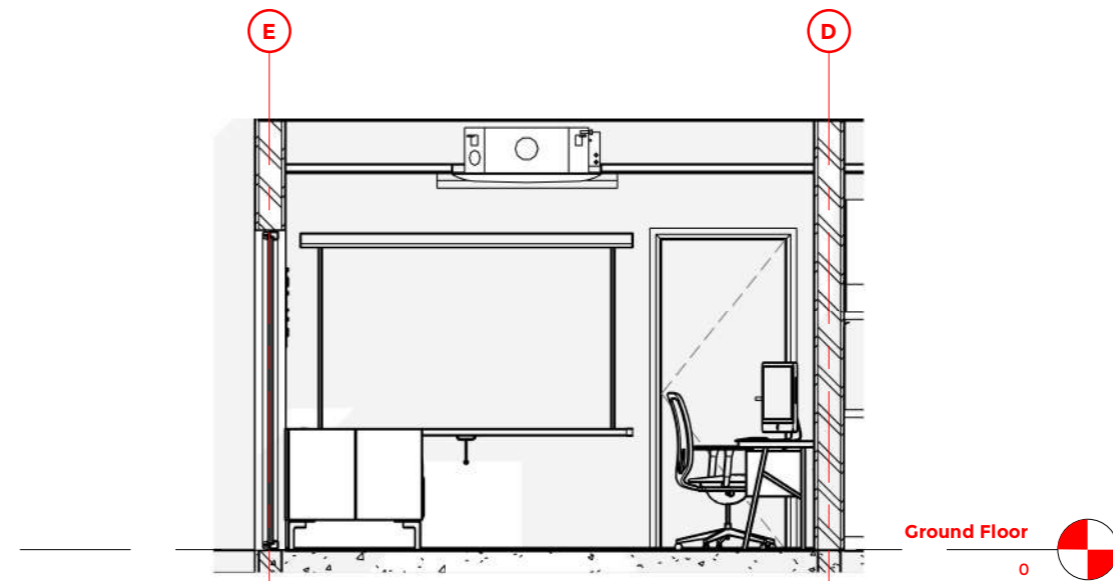
Study Elevation

SCALE PROJECT NO

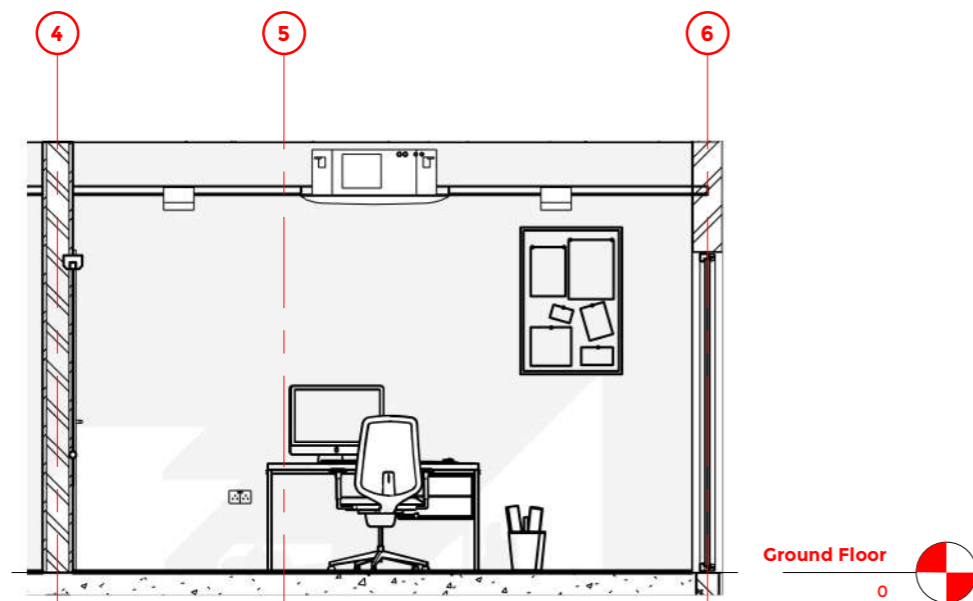
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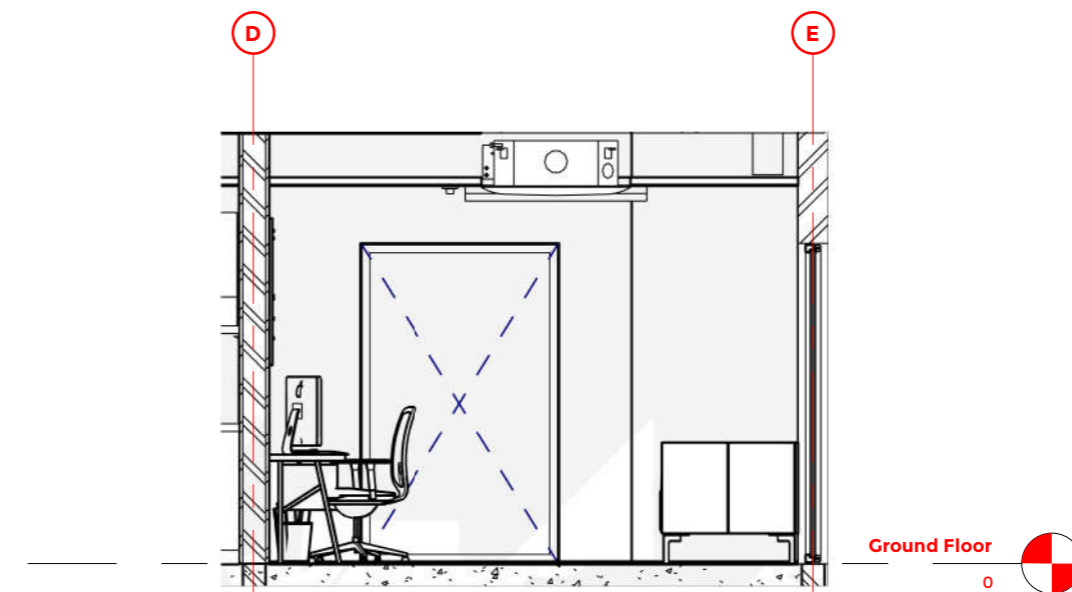
1 Study Elevation 1
1:50



2 Study Elevation 2
1:50



3 Study Elevation 3
1:50



4 Study Elevation 4
1:50

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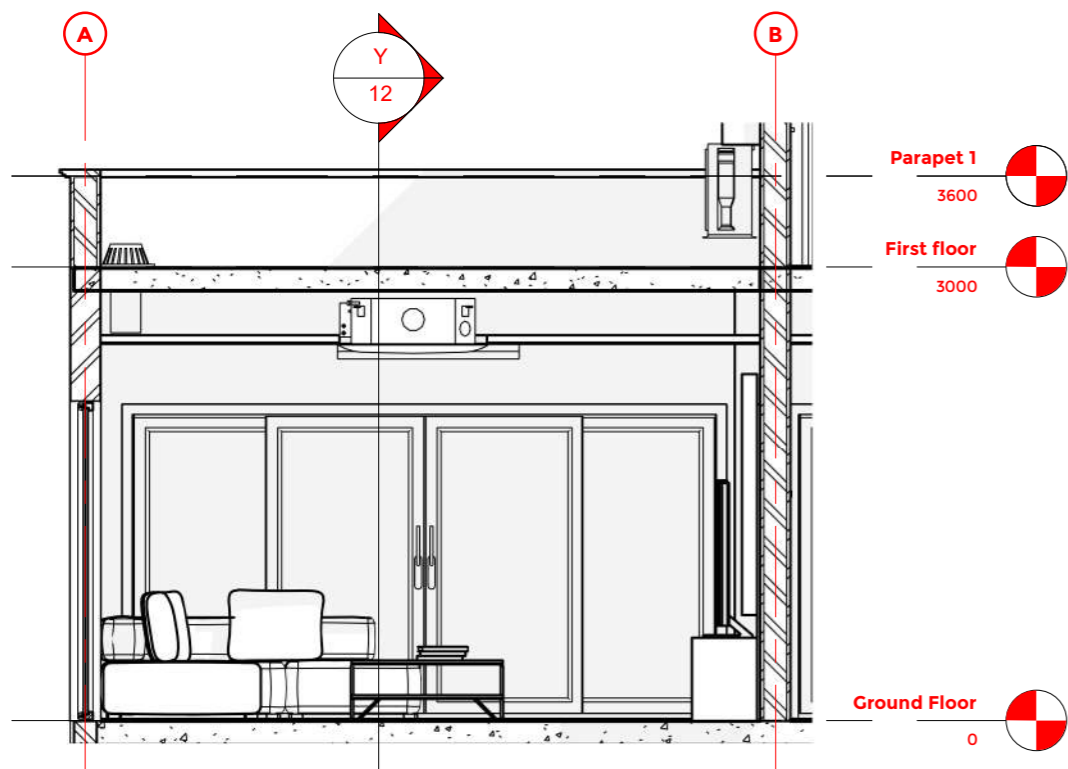
Living Room Elevation

SCALE PROJECT NO

1:50 026

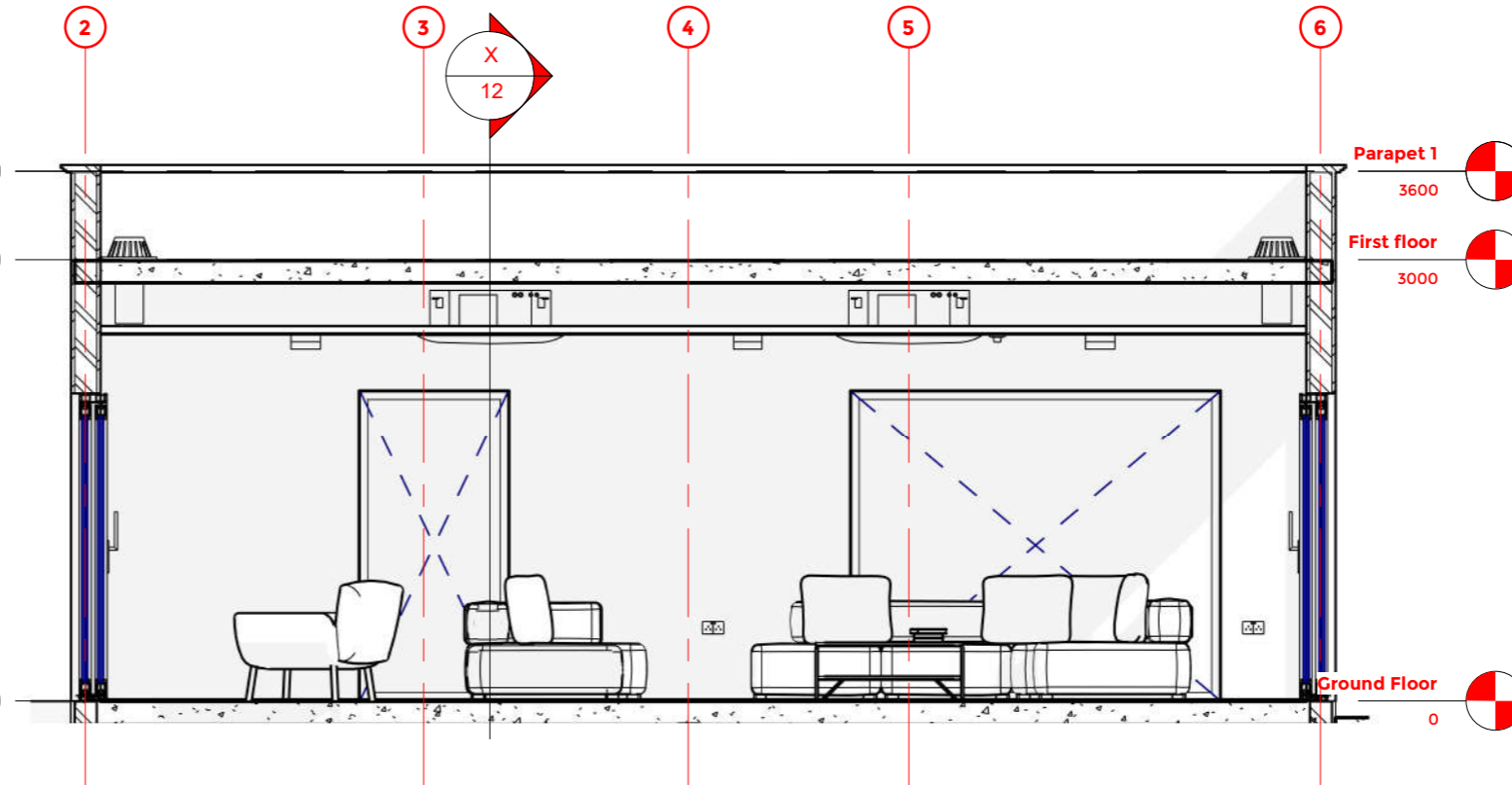
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20



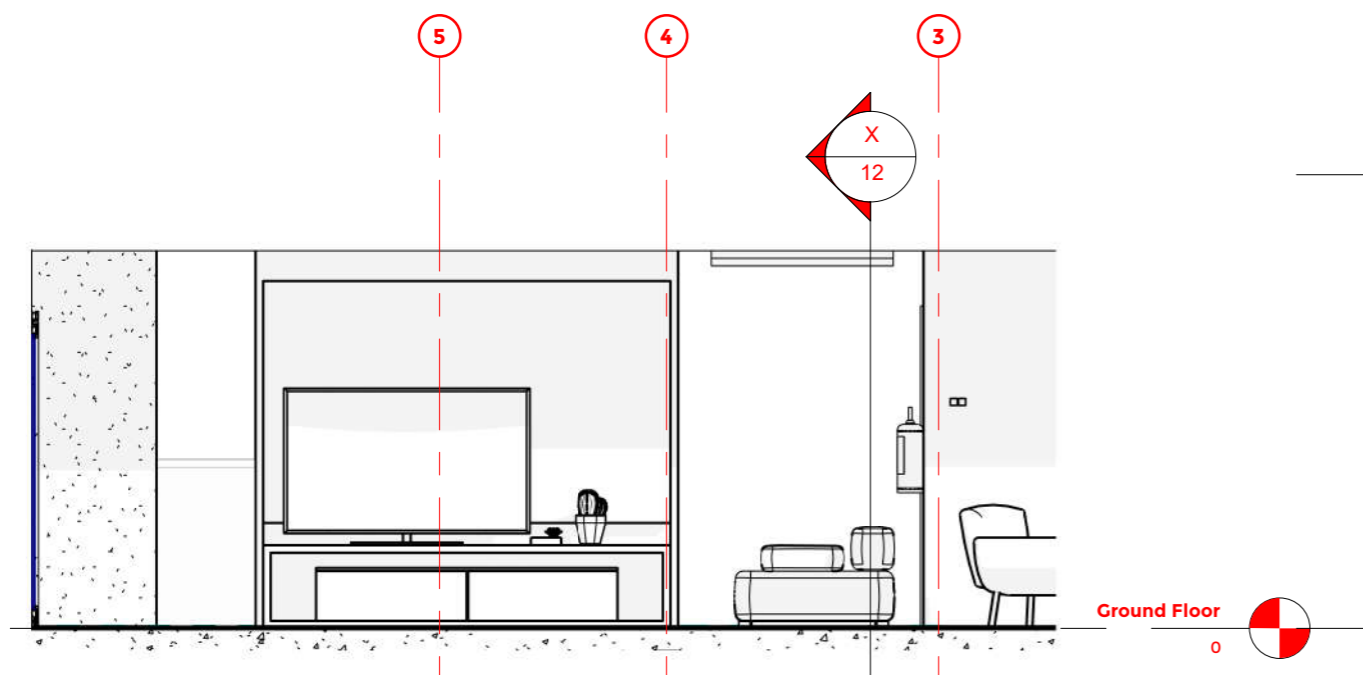
1 Living Room Elevation 1

1:50



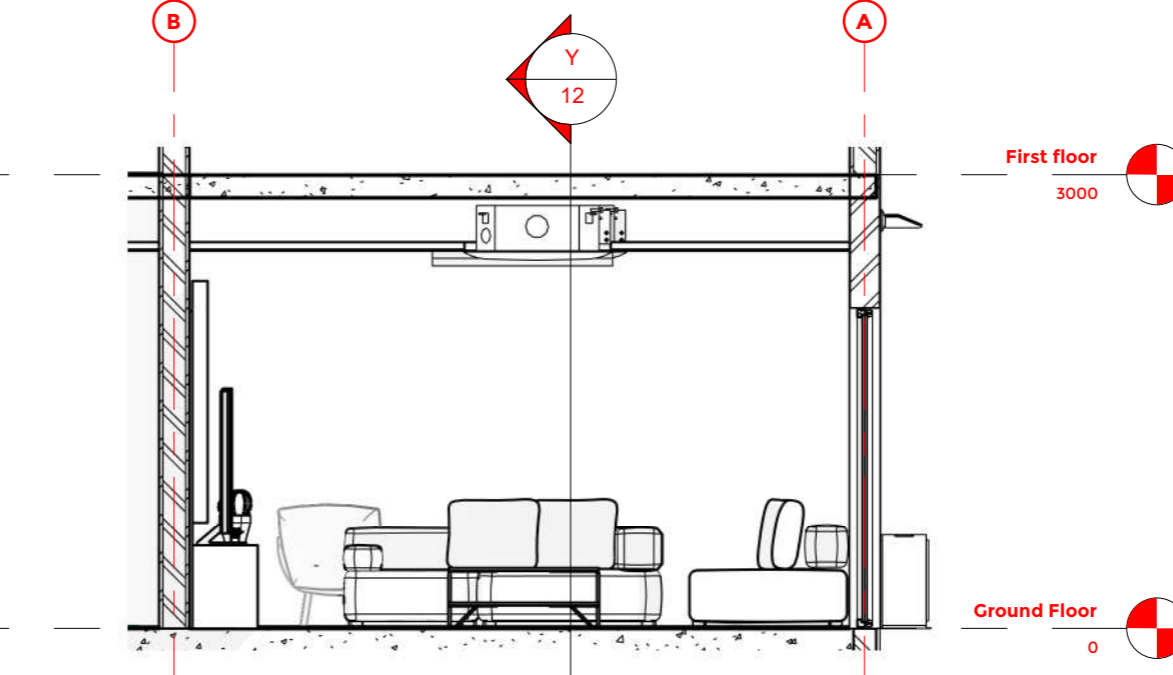
2 Living Room Elevation 2

1:50



3 Living Room Elevation 3

1:50



4 Living Room Elevation 4

1:50

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SHEET TITLE

Roof Plan

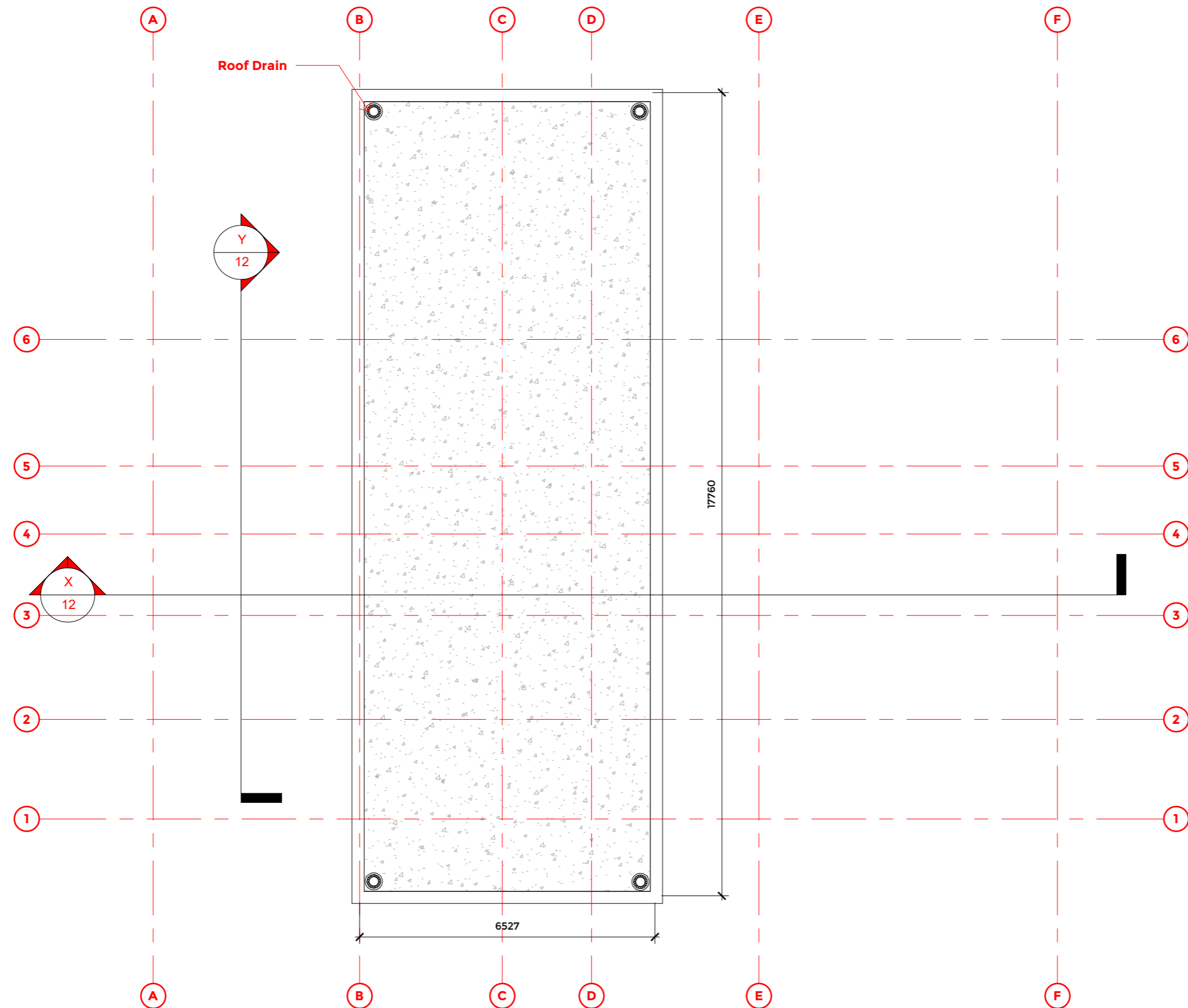
SCALE PROJECT NO

1:100

026

SHEET NO

21



1 Roof
1:100

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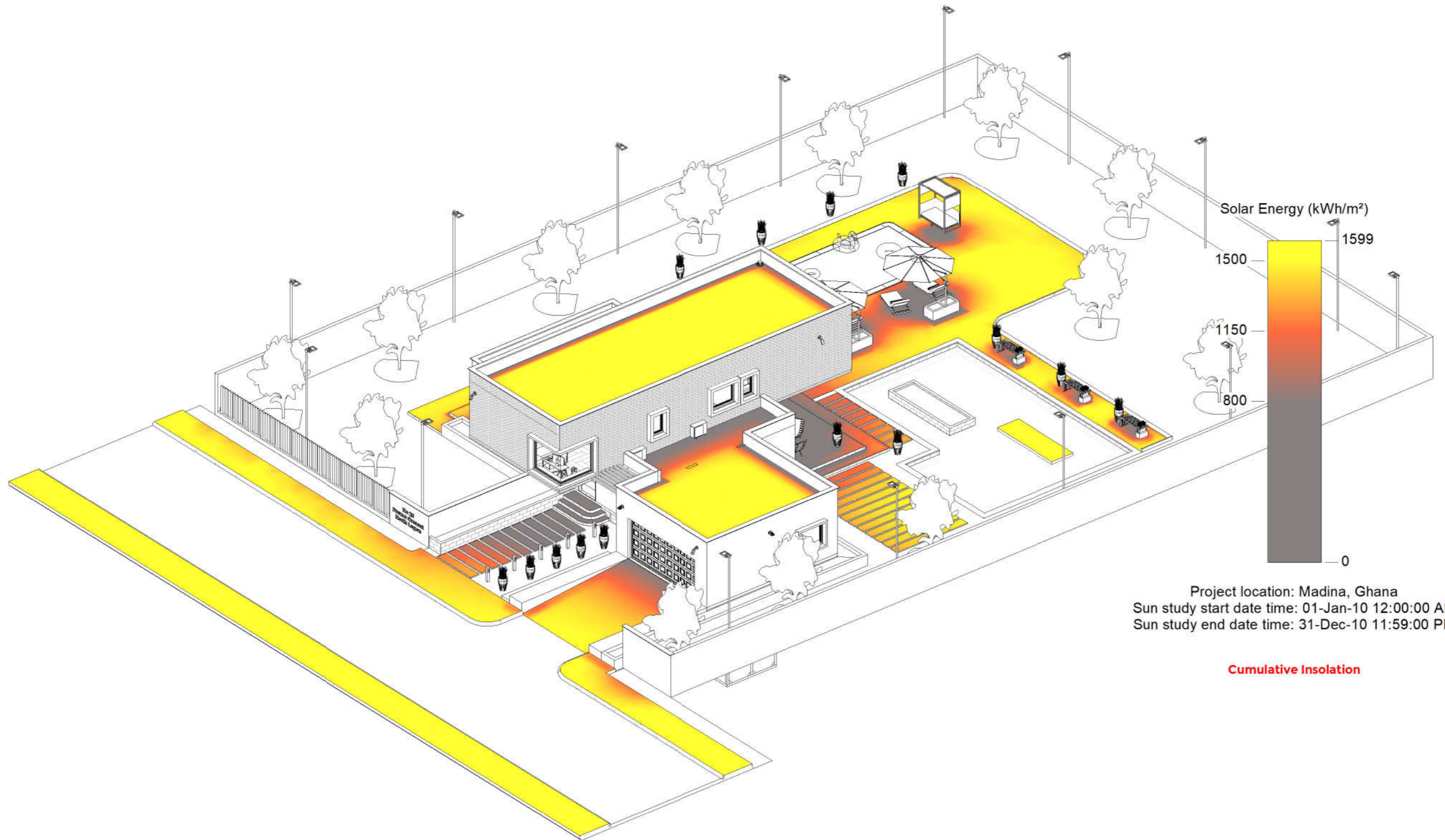
PV Energy Model

SCALE PROJECT NO

026

SHEET NO

22



Project location: Madina, Ghana
Sun study start date time: 01-Jan-10 12:00:00 AM
Sun study end date time: 31-Dec-10 11:59:00 PM

Cumulative Insolation

1 PV Energy Model

NOTES

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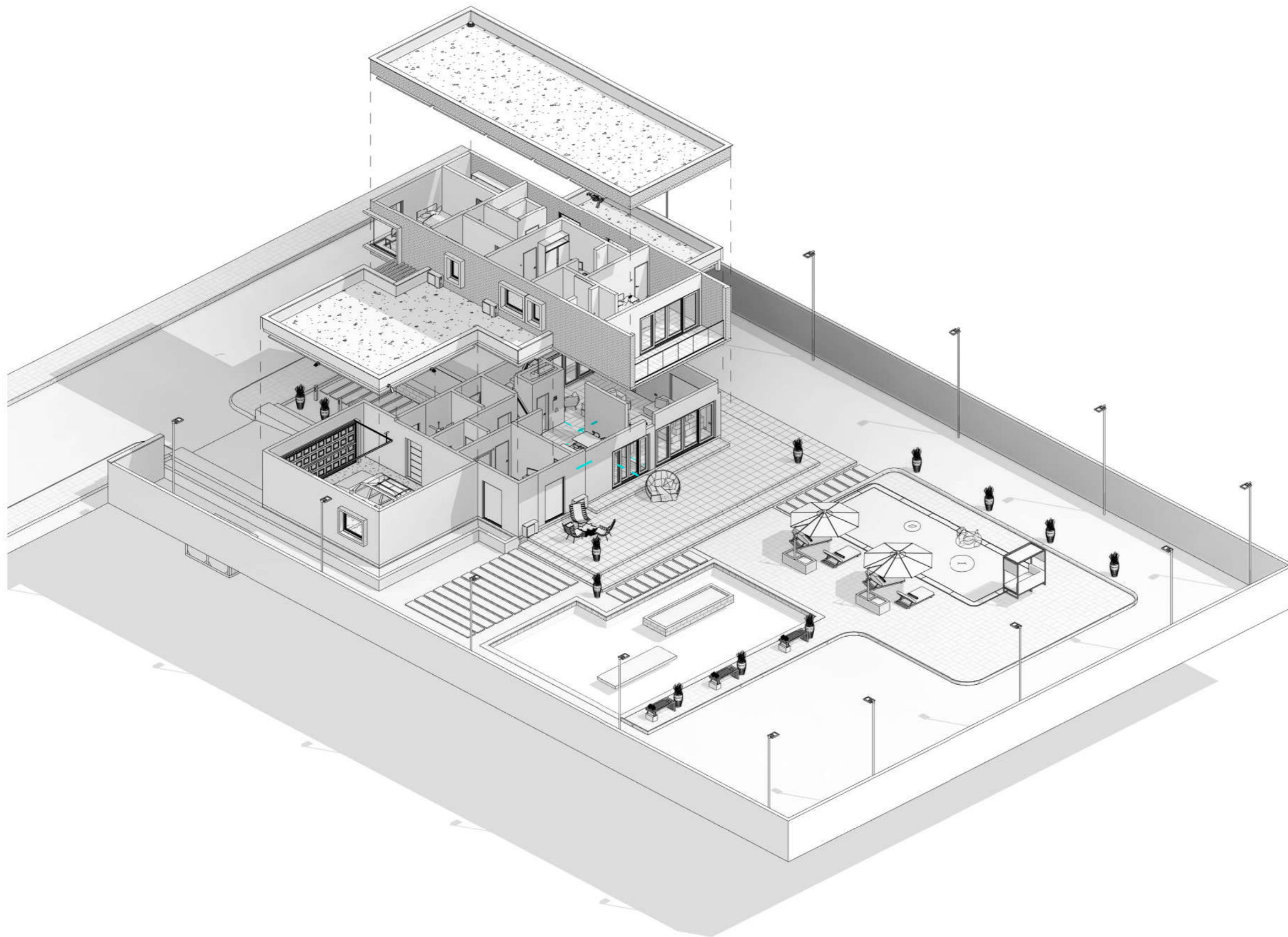
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Displaced View

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	026

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23



1 Displaced View

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 Proposed Three Bedroom Residential Building

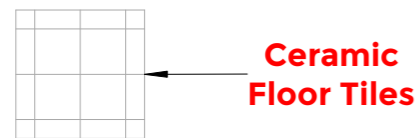
CLIENT:
 Deseret School of Design

SHEET TITLE
 Finishes

SCALE 1:100	PROJECT NO 026
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SHEET NO

24



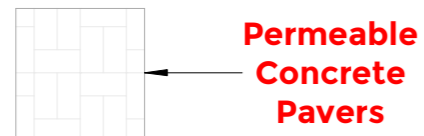
Ceramic Floor Tiles



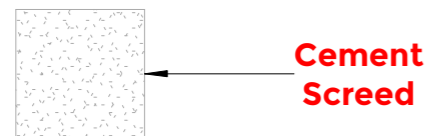
Vinyl Amstrong Flooring



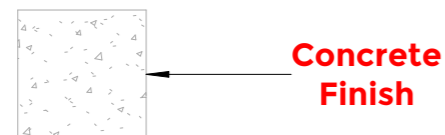
StoneMarble Tile



Permeable Concrete Pavers



Cement Screed



Concrete Finish



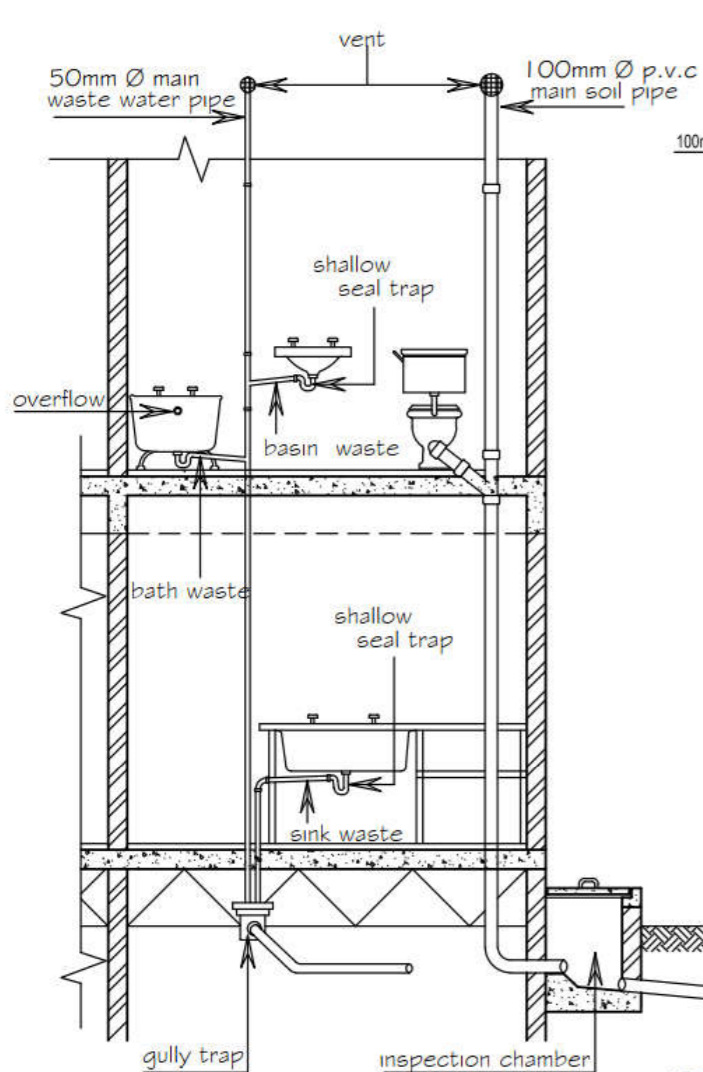
Plain Color Coral Paint



Red Brick Wall Finish

2 **Wall Material Legend**
 1 : 100

1 **Floor Material Legend**
 1 : 100

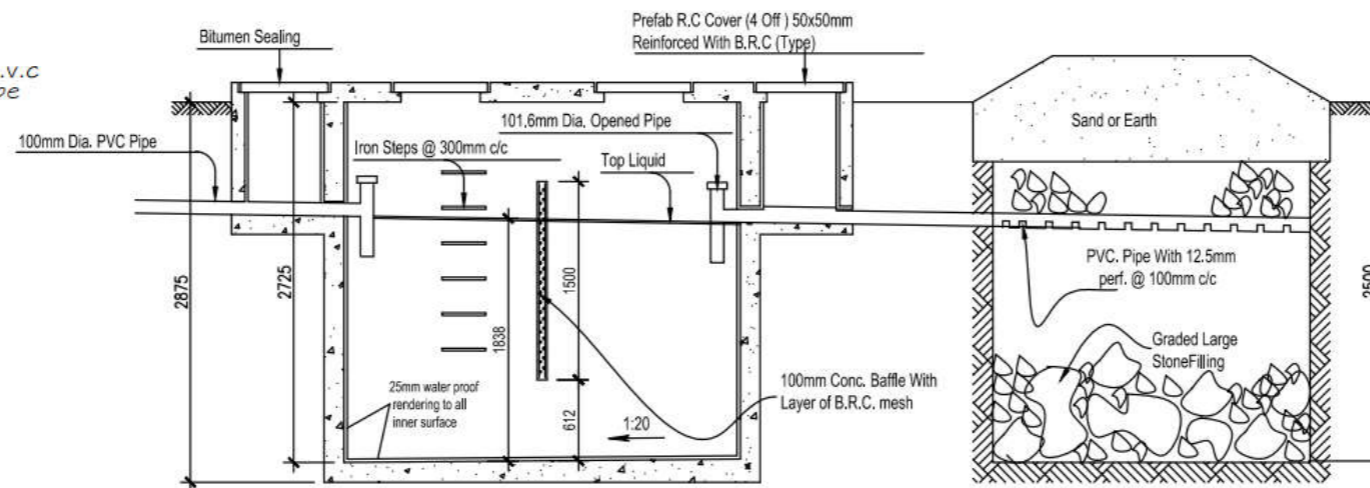


SCHEMATIC SECTION

PERIODIC ATTENDANCE

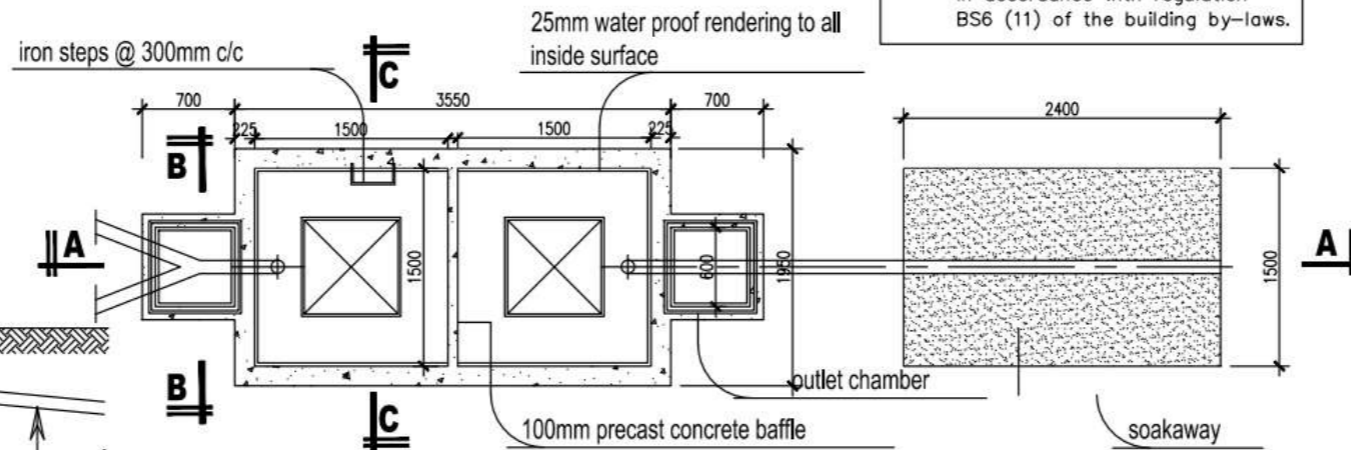
PERFORATED PIPE SHOULD BE REMOVE EVERY THREE MONTHS AND AND PERFORATIONS OR SLOTS CLEANED WITH WIRE BRUSH TO LAYER OF FILTER MEDIA SHOULD EXAMINED AND IF NECESSARY RAKED OVER AND CLEANED EVERY TWELVE MONTH. IT MAY FOUND NECESSARY ON ACCOUNT OF CLOGGING TO REMOVE PART OF MEDIA AND RENEW. SEPTIC TANK SHOULD BE OPENED EVERY SIX MONTHS AND DEPTH OF TOP CRUSH ACCERTAINED IF THIS EXCEED 304.8mm SURPLUS SHOULD BE REMOVE AND BURRIED.

NB//Septic tank is to be constructed in accordance with regulation BS6 (11) of the building by-laws.

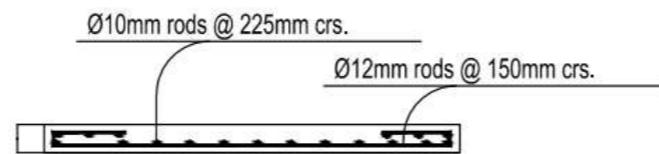


SECTION A-A

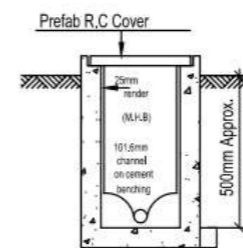
NB//Septic tank is to be constructed in accordance with regulation BS6 (11) of the building by-laws.



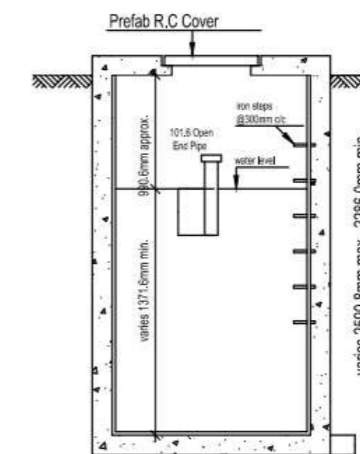
SEPTIC TANK PLAN



R.C. SLAB SEPTIC TANK



SECT. B-B



SECT. C-C

NOTES

- I air should be excluded from tank to encourage growth of anaerobic bacteria required to liquify the sludge and facilitate flow of effluent
- II accumulated gases are expected to be expelled through vent at least 600mm above eaves with open ends protected against nesting birds
- III drain should be given sufficient fall (e.g 1 in 40 for 100mm Ø pipe)
- IV joints should be properly made to prevent blocking of the aperture
- V septic tank must be constructed in concrete with the top at least 150mm above ground level
- VI overall depth of septic tank below ground level is determined by the inlet and shall not be less than 1800mm the depth below inlet level shall also be 1400 - 1500mm and any case not less than 1200mm
- VII baffle screens must be provided to prevent direct flow between inlet and outlet
- VIII septic tank should be open every six months and depth of top crust ascertained if this exceeds 30cm surplus should be removed and buried

NOTES

All measurements are in millimeters.
All dimensions are to be checked on site before commencement of work.
Any discrepancy between the architectural drawings relevant to construction should be notified before commencement.

DRAWN BY:
Student

DATE
11/03/2022

PROJECT NAME
Proposed Three Bedroom Residential Building

CLIENT:
Deseret School of Design

SHEET TITLE
Septic Tank Details

SCALE PROJECT NO
026

SHEET NO

25

1. RELEVANT DRAWINGS

ALL CIVIL/STRUCTURE ENGINEERING DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND OTHER ENGINEERING DRAWINGS.

2. SOIL CONDITION AND EXCAVATION

EXCAVATION SHALL BE CARRIED OUT TO THE LENGTHS WORTH AND DEPTHS SHOWN ON THE DRAWING BOTTOMS OF EXCAVATION SHALL BE INSPECTED BY THE ENGINEER AND IF PATCHES OF BAD GROUND ARE FOUND OR THE GROUND IS FOUND TO BE UNSOUND THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE TO SUCH FURTHER DEPTHS AS THE ENGINEER MAY DIRECT AND TO FILL UP SUCH EXTRA DEPTHS WITH GRADE 12 CONCRETE BEFORE COMMENCEMENT OF ANY CASTING.

3. ANTI-TERMITE TREATMENT

SUNPYRIFOS (48% EC) OR SIMILAR ANTI-TERMITE TREATMENT CHEMICAL TO BE THE ENGINEERS SHALL BE APPLIED TO COMPACTED BED (GROUND FLOOR SLAB OR AT PLACES AS DIRECTED BY THE ENGINEER) PRIOR TO THE PLACEMENT OF 1000 MICRON GAUGE POLYTHENE DAMP MEMBRANE.

4. CONCRETE

CEMENT SHALL BE ORDINARY PORTLAND CEMENT COMPLYING WITH B S. 12 CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAYS CUBE STRENGTHS.

- a) SUB-STRUCTURE - 25N/mm²
- b) SUB-STRUCTURE - 25 N/mm²

CLASS OF CONCRETE

Class of concrete	Characteristic cylinder strength (N/mm ²)	Characteristic cube strength (N/mm ²)	Maximum water / cement ratio		Minimum cement content (kg/m ²)
			A	B	
C20/25	20	25	0.70	0.65	260
C25/30	25	30	0.60	0.55	280

FINE AGGREGATE SHALL CONSIST OF SAND OR CRUSHED ROCK OF EITHER GRANITE BASALT OR QUARTZITE CLEAN FREE FROM LOAM AND ORGANIC MATTER IT SHALL BE WASHED IF SO REQUIRED BY THE ENGINEER IT SHOULD PASS A 10mm SIEVE

COARSE AGGREGATE SHALL BE THE HARDEST AVAILABLE SUCH AS GRANITE. GRAVEL OR BROKEN STONE FREE FROM DUST. SOFT MATERIAL EARTH OR EXTRANEIOUS MATTER THE MAXIMUM SIZE SHOULD BE 20mm GRADED DOWN TO 10mm MASS CONCRETE SHALL BE GRADE 12 WITH 40mm AGGREGATE. ALL REINFORCED CONCRETE SHALL BE CAST ON 50mm BLINDING OF GRADE 12 CONCRETE. ALL CONCRETE SHALL BE THOROUGHLY COMPACTED BE MEANS OF MECHANICAL VIBRATOR

CONCRETE SHALL BE SAMPLED AT FREQUENCY TO BE DIRECTED BY THE ENGINEER AND CUBE TESTS PERFORMED AT 7 AND 28 DAYS IN APPROVED MATERIALS LABORATORY.

5. REINFORCEMENT

ALL REINFORCEMENT SHALL COMPLY WITH THE CURRENT BS15, BS4466, BS8666 AND BS4449 WITH MINIMUM TENSILE STRENGTH AS FOLLOWS UNLESS OTHERWISE STATED ELSEWHERE.

- MILD STEEL DENOTED AS 'R' - 250N/mm²
- HIGH YIELD DENOTED AS TENSILE STEEL 'Y' - 460N/mm²

6. CONCRETE COVER AND FIRE RATING

MINIMUM COVERS TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE STATED ELSEWHERE

- SLABS - 20mm
- BEAMS - 30mm
- COLUMNS - 30mm
- FOUNDATIONS - 50mm

7. WATER

WATER FOR CONCRETE AND MASONRY WORKS SHALL BE CLEAN AND FREE FROM HARMFUL MATTER SUCH AS DETRIMENTAL CONCENTRATIONS OF ACIDS ALKALIS, SALTS, SUGAR AND OTHER ORGANIC OR CHEMICAL SUBSTANCES THAT COULD IMPAIR THE DURABILITY AND STRENGTH OF THE CONCRETE OR THE IMBEDDED STEEL WATER SHALL CONFORM TO BS. EN 1008. FOR REINFORCED CONCRETE. THE CHLORIDE CONTENT OF THE MIXING SHALL NOT EXCEED 500mg/l.

8. BLOCK WORK

A. CEMENT MORTAR

CEMENT FOR MORTAR SHALL BE ORDINARY PORTLAND CEMENT WHILE THE SAND FOR MORTAR SHALL COMPLY WITH BS. 1200

B. SANDCRETE BLOCKS

ALL BLOCK WORKS SHALL BE OBTAINED FROM APPROVED MANUFACTURERS AND SHALL HAVE A MINIMUM CRUSHING STRENGTH OF 28N/mm² AT 21 DAYS. THE BLOCKS SHALL BE 450MM LONG BY 225MM DEEP.

ANY DEFECTIVE BLOCKS FOUND ON THE WORKS SHALL BE OUTRIGHTLY REJECT AND REPLACE WITH SOUND ONCE AT THE CONTRACTOR'S EXPENSE.

9. WATER PROOFING

ALL EARTH FACES OF RETAINING WALLS AND OVERSITE CONCRETE SHALL BE PROVIDED WITH XYPEX VANDEX, OR SIMILAR WATER PROOFING MATERIAL TO BE APPROVED BY THE ENGINEER.

ALL EXPOSED ROOF SLAB SURFACES AND ROOF GUTTERS SHALL BE PROVIDED WITH VANDEX XYPEX OR SIMILAR WATER PROOFING MATERIAL TO BE APPROVED BY THE ENGINEER.

EXPOSED FACES OF CONCRETE BLINDING AND EARTH FACES OF THE LOWER BASEMENT FLOOR SLAB SHALL BE PROVIDED WITH APPROVED BIT BITUMINOUS DAMP PROOF MATERIAL, PROTECTED WITH 1000 MICRON GAUGE POLYTHENE DAMP-PROOF MEMBRANE.

10. SOIL COMPACTION

APPROVED FILLING NATURAL MATERIAL i.e LATERITE, ETC. SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150mm SOIL COMPACTED SHALL BE CARRIED OUT BY MEANS OF MECHANICAL COMPACTORS TO BE COURSE SPECIFICATIONS AS DESCRIBED BELOW.

11. STRUCTURAL TIMBER

STRUCTURAL TIMBER FOR TRUSSES ETC. WHERE SPECIFIED. SHALL BE SEASONED HARDWOOD i.e ODUM, DAHOMA OR SIMILAR TO BE APPROVED BY THE ENGINEER. ALL STRUCTURAL TIMBER SHALL BE TREATED WITH APPROVED ANTI-TERMITE WOOD PRESERVATIVE.

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General Notes

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026