

# Proposed Two Storey Juvenile Residential Center

Dh. Kudahuvadhoo



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GENERAL				
#	DRAWING TITLE	DWG #	REV.	REMARKS
01	Drawing list	G-1.01	00	
02	Location plan	G-2.01	00	

ARCHITECTURAL SERIES				
#	DRAWING TITLE	DWG #	REV.	REMARKS
03	Site plan	A-2.01	00	
04	Key plan - Ground floor	A-2.02	00	
05	Key plan - First floor	A-2.03	00	
06	Ground floor plan	A-2.04	00	
07	First floor plan and lower roof plan	A-2.05	00	
08	Upper Roof plan	A-2.06	00	
09	Elevation E1 & E2	A-3.01	00	
10	Section X-X	A-4.01	00	
11	Architectural details 1	A-5.01	00	
12	Architectural details 2	A-5.02	00	
13	Architectural details 3	A-5.03	00	
14	Architectural details 4	A-5.04	00	
15	Architectural details 5	A-5.05	00	
16	Space programme and finishing schedule 1	A-6.01	00	
17	Space programme and finishing schedule 2	A-6.02	00	
18	Space programme and finishing schedule 3	A-6.03	00	
19	Door window schedule 1	A-6.04	00	
20	Door window schedule 2	A-6.05	00	
21	Door window schedule 3	A-6.06	00	
22	Door window schedule 4	A-6.07	00	
23	Door window schedule 5	A-6.08	00	
24	Door window schedule 6	A-6.09	00	
25	Door window schedule 7 & Ventilation Schedule 1	A-6.10	00	
26	Ventilation Schedule 2	A-6.11	00	

STRUCTURAL SERIES				
#	DRAWING TITLE	DWG #	REV.	REMARKS
27	General notes	S-1.01	00	
28	Foundation and column plan	S-2.01	00	
29	First floor beam plan / lower roof beam-slab plan	S-2.02	00	
30	First floor slab reinforcement plan / lower roof framing plan	S-2.03	00	
31	Upper roof beam plan	S-2.04	00	
32	Upper roof framing plan and roof slab reinforcement plan	S-2.05	00	
33	Structural details 1	S-5.01	00	
34	Structural details 2	S-5.02	00	
35	Typical details	S-5.03	00	
36	Standard detailing rules to BS 8110	S-5.04	00	
37	Foundation protection method	S-5.05	00	

MEP SERIES				
#	DRAWING TITLE	DWG #	REV.	REMARKS
38	Ground floor lighting plan	E-2.01	00	
39	First floor lighting plan	E-2.02	00	
40	Ground floor power & IT plan	E-2.03	00	
41	First floor power & IT plan	E-2.04	00	
42	Ground floor ACMV plan	E-2.05	00	
43	First floor ACMV plan	E-2.06	00	
44	Ground floor water supply plan	P-2.01	00	
45	First floor water supply plan	P-2.02	00	
46	Ground floor sanitary plan	P-2.03	00	
47	First floor sanitary plan	P-2.04	00	
48	Ground floor fire protection plan	F-2.01	00	
49	First floor fire protection plan	F-2.02	00	

G = General  
A = Architectural  
S = Structural  
E = Electrical  
P = Plumbing  
F = Fire protection

1 = General  
2 = Plans  
3 = Elevations  
4 = Sections  
5 = Details  
6 = Schedules

**GENERAL NOTES:**

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MINISTRY OF HOME AFFAIRS

PROJECT
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PROPOSED TWO STOREY  
JUVENILE RESIDENTIAL CENTER  
DH. KUDAHUVADHOO

TITLE
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## DRAWING LIST

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY HANEEF		CHECKED BY HANEEF	
DISCIPLINE GENERAL			SHEET SIZE A3		SCALE NA
FIRST EMISSION 26/02/2021			DRAWING NUMBER		REVISION
UPDATE 07/03/2021			G-1.01		00

## 01 Drawing list



## 01 Location plan

1:500



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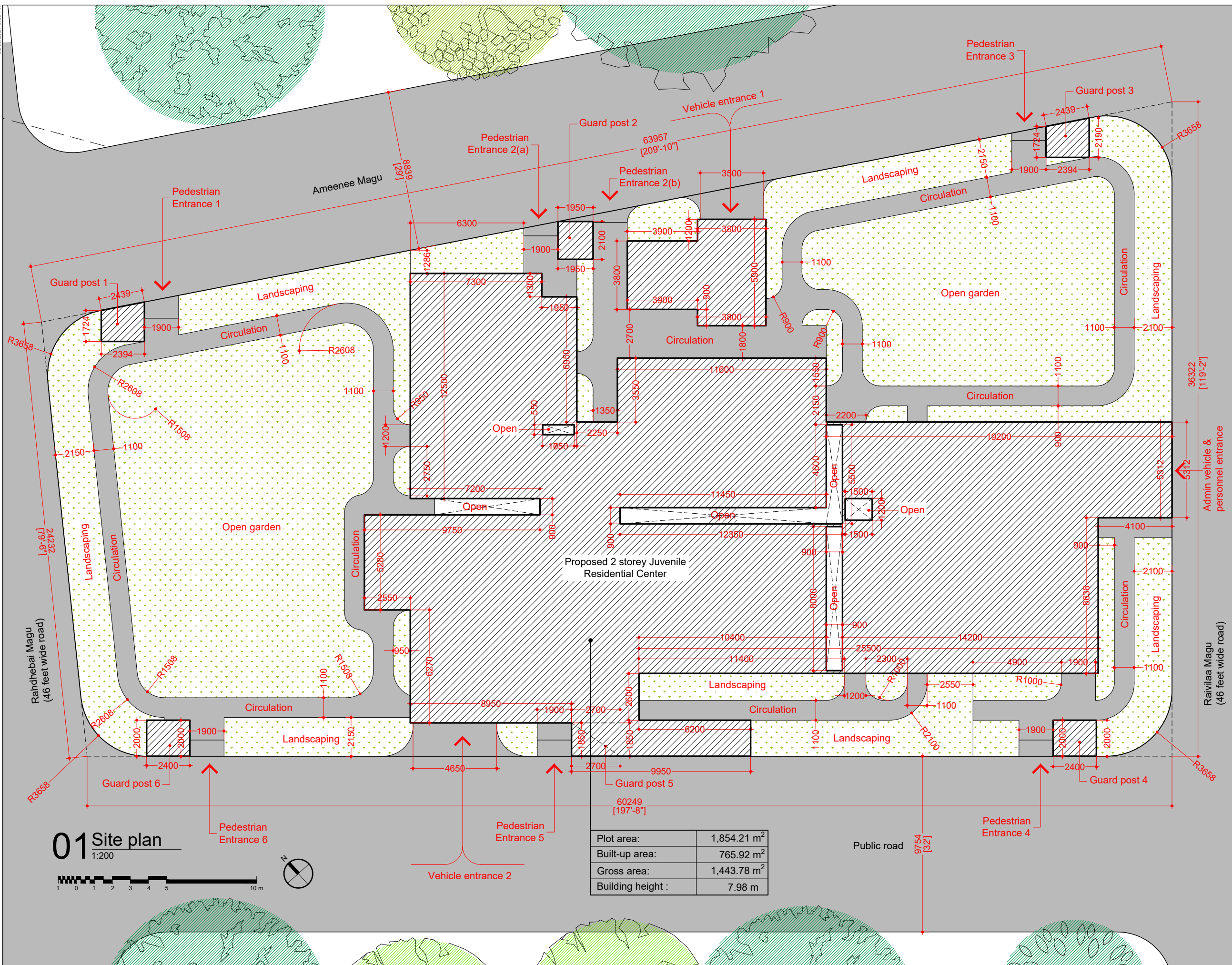
## LOCATION PLAN

DESIGN STAGE
--------------

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY HANEEF	CHECKED BY HANEEF
DISCIPLINE GENERAL		SHEET SIZE A3	SCALE 1:500
FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
UPDATE 07/03/2021	G-2.01		00





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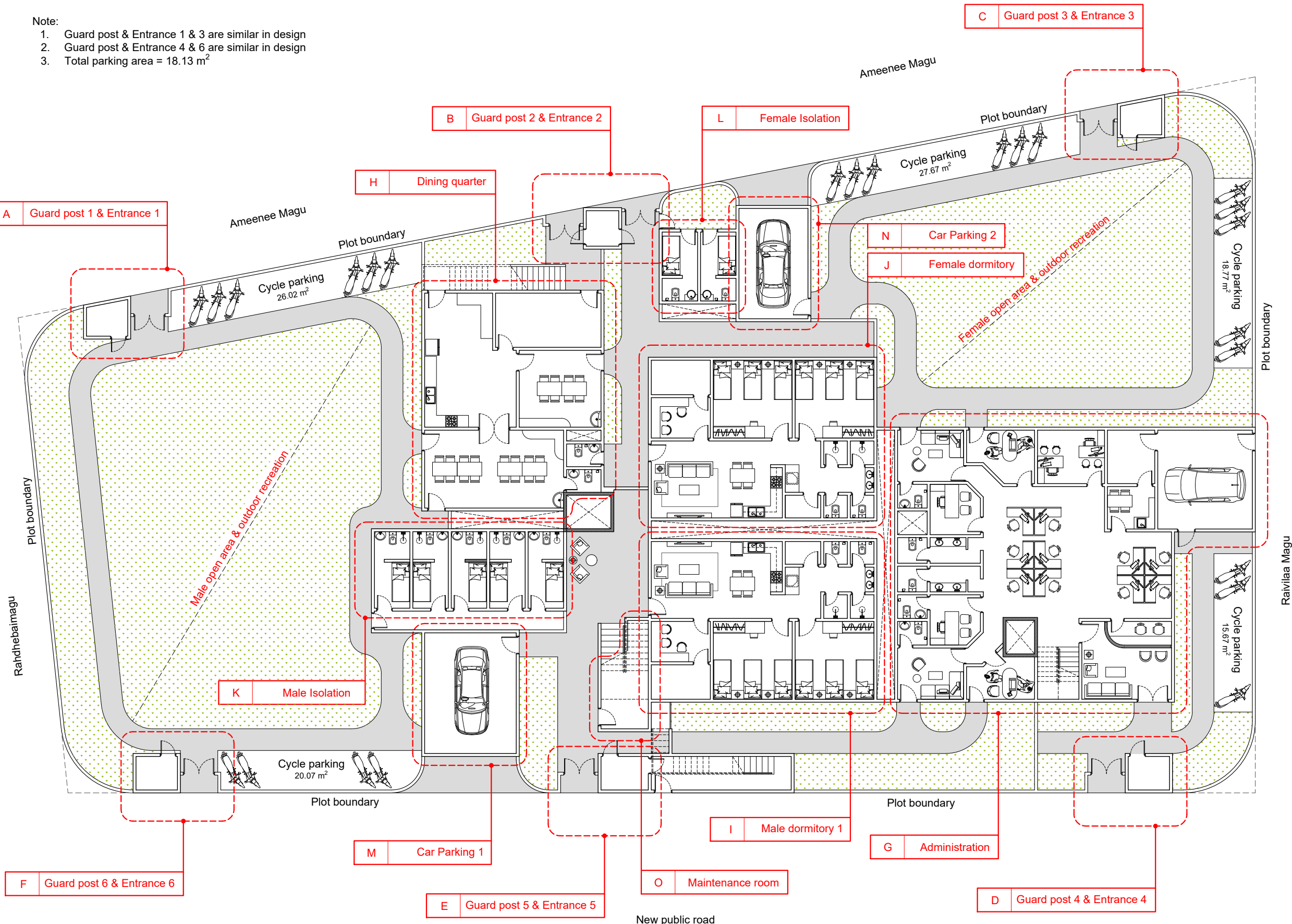
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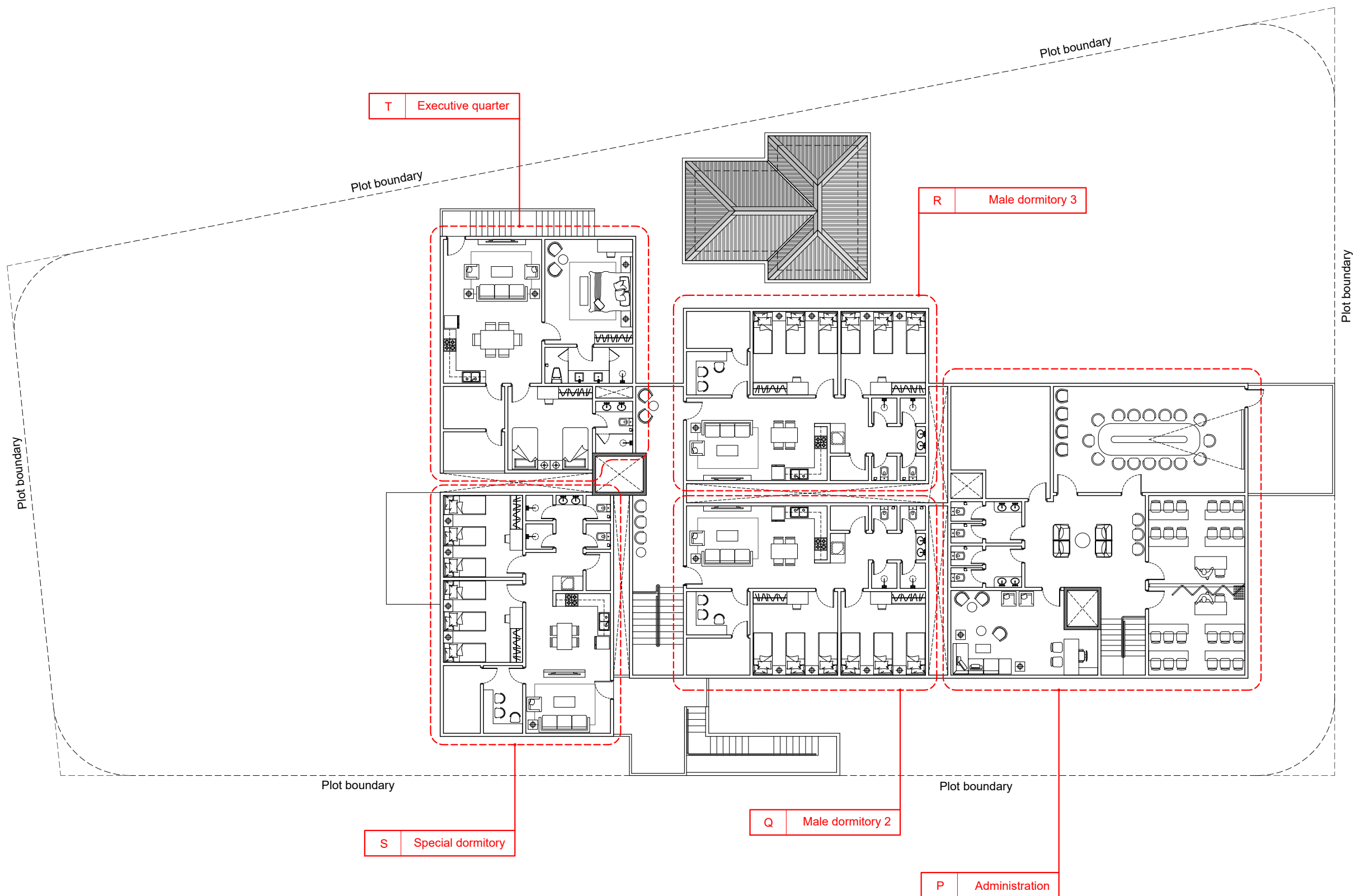
DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:200
FIRST EMISSION 26/02/2021		DRAWING NUMBER  A-2.01		REVISION  00	
UPDATE 07/03/2021					







## 01 Key plan - First floor



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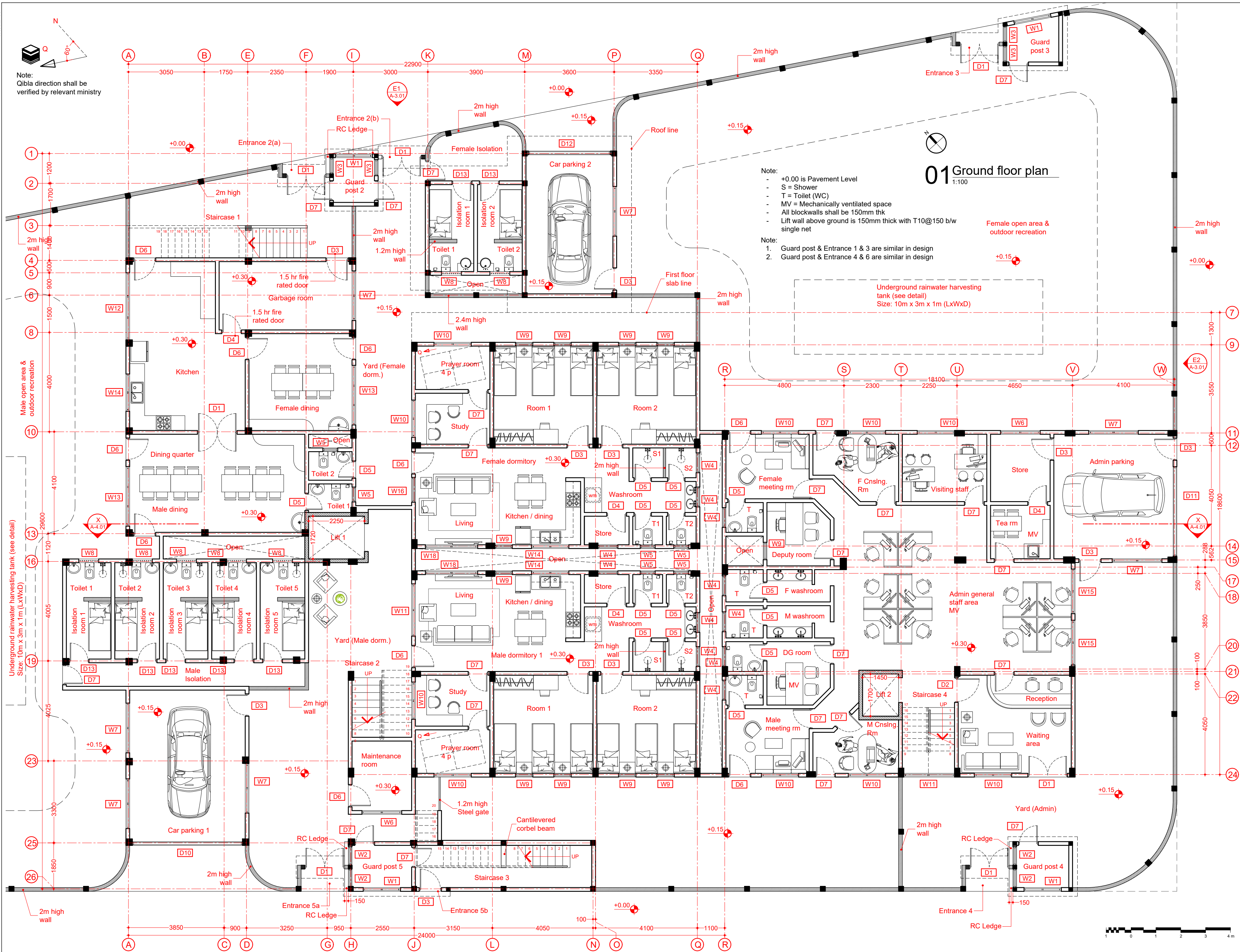
TITLE
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KEY PLAN - FIRST FLOOR

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:200
FIRST EMISSION 26/02/2021		DRAWING NUMBER			REVISION
UPDATE 07/03/2021		A-2.03			00



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REV	DESCRIPTION	DATE
00	INCEPTION	20/02/2021

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TITLE  
GROUND FLOOR PLAN

DESIGN STAGE

○ CONCEPT DESIGN  
● DESIGN DEVELOPMENT  
○ CONSTRUCTION DOCUMENTS  
○ AS-BUILT DRAWINGS

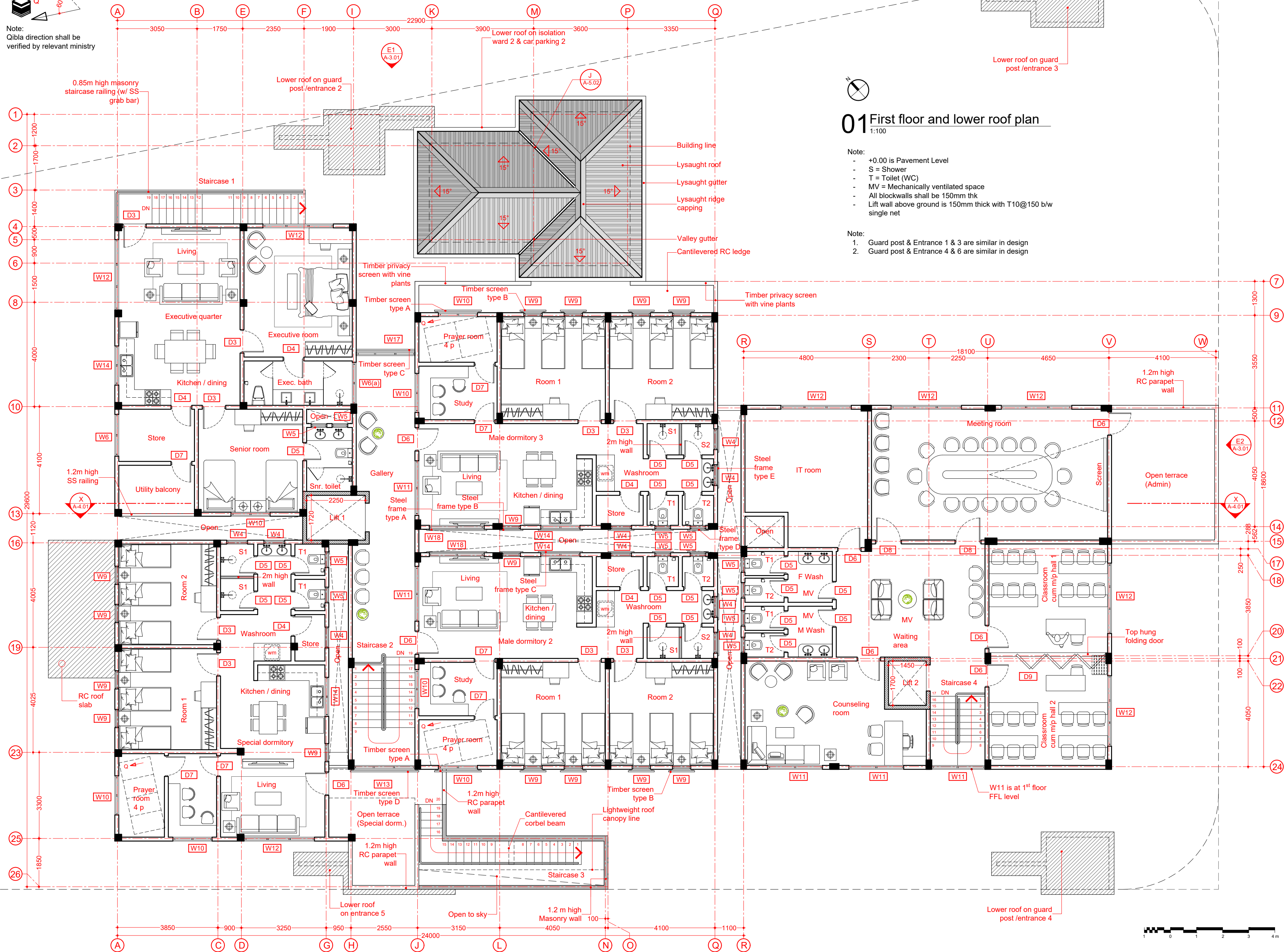
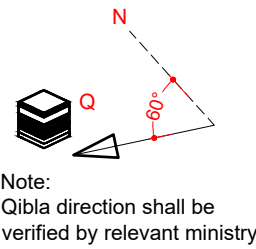
DRAWN BY DE  
DESIGNED BY ISHA  
CHECKED BY LAYANA

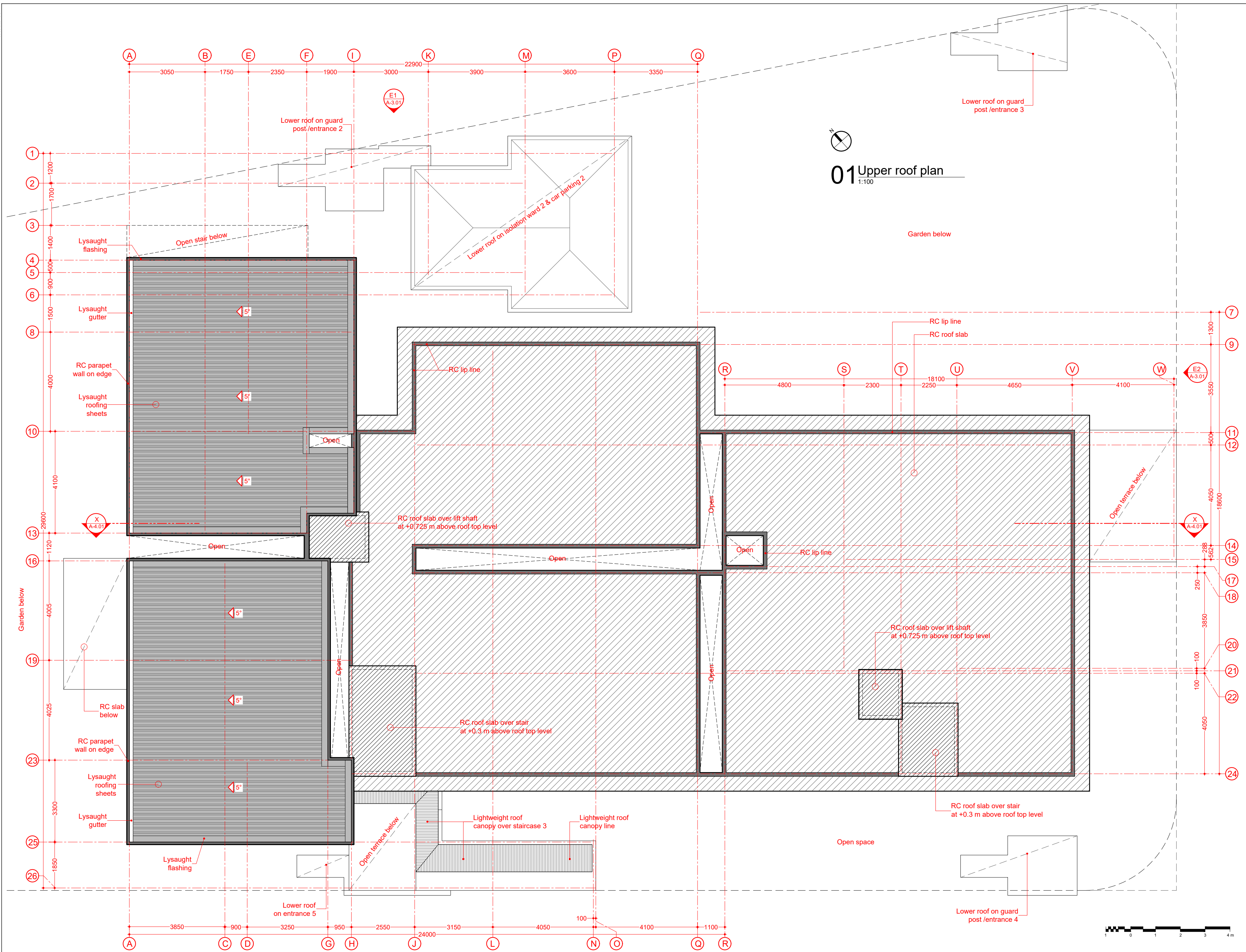
DISCIPLINE ARCHITECTURAL  
SHEET SIZE A2  
SCALE 1:100

FIRST EMISSION 26/02/2021  
DRAWING NUMBER  
REVISION

UPDATE  
A-2.04  
00







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## NOTES



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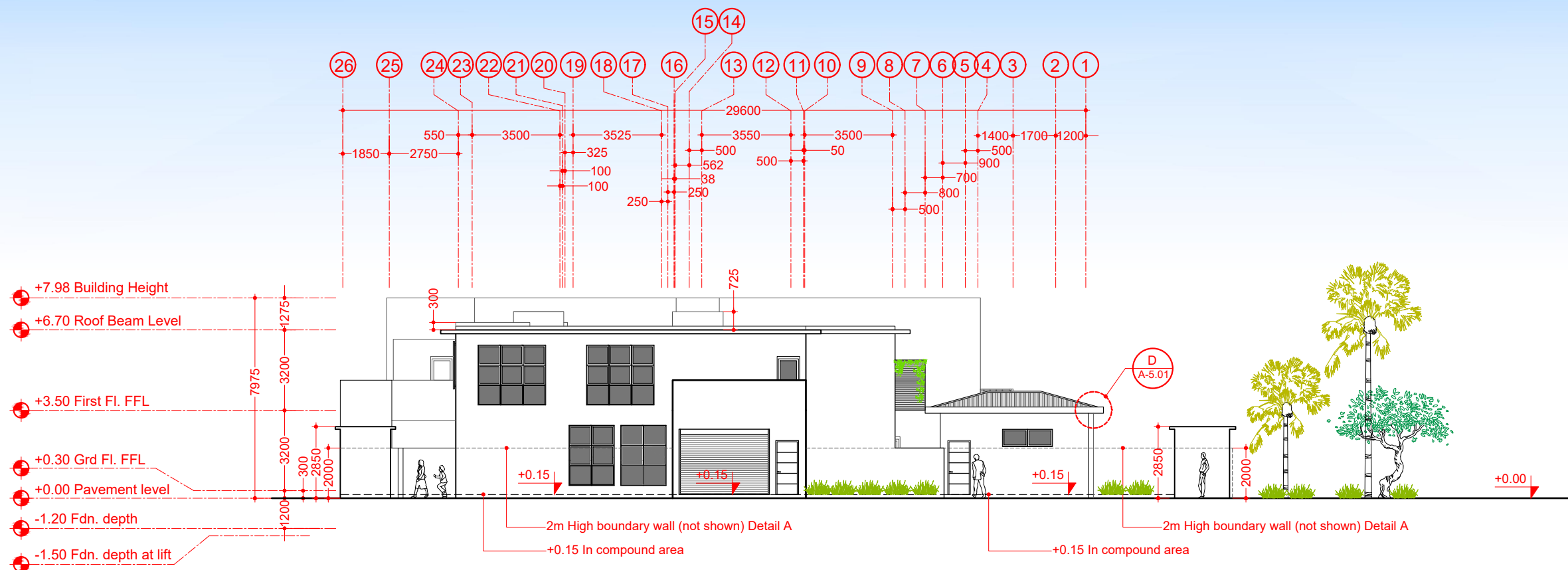
PROJECT
PROPOSED TWO STOREY JUVENILE RESIDENTIAL CENTER
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TITLE  
UPPER ROOF PLAN

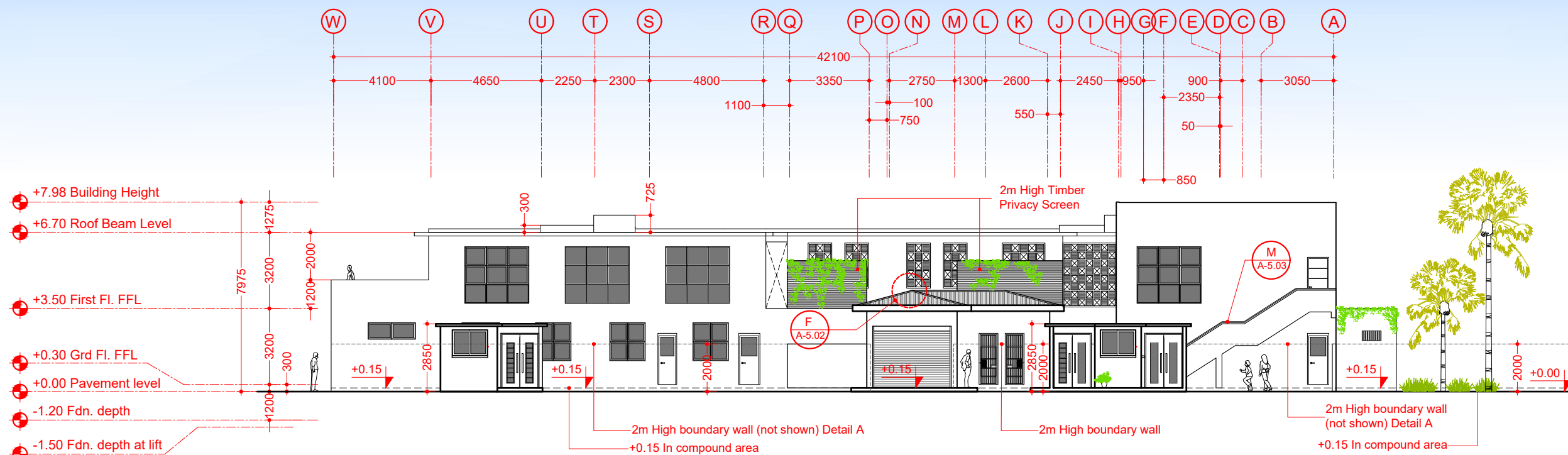
DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A2		SCALE 1:100
FIRST EMISSION 26/02/2021		DRAWING NUMBER  A-2.06		REVISION  00	
UPDATE  -					



## 02 Elevation E1



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ELEVATION E1  
ELEVATION E2

	DESIGN STAGE
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- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:200
FIRST EMISSION 26/02/2021		DRAWING NUMBER			REVISION
UPDATE 07/03/2021		A-3.01			00





1. Admin car parking
2. Tea room
3. Admin staff area
4. Deputy room
5. Female meeting toilet
6. Open area (open to sky)
7. Female dormitory toilet 2
8. Female dormitory toilet 1
9. Female dormitory store room
10. Female dormitory kitchen & dining
11. Female dormitory living
12. Male dormitory yard
13. Lift 1 (Male dormitory lift)
14. Male dining
15. Admin terrace
16. Meeting room
17. IT room
18. Male dormitory 3 toilet 2
19. Male dormitory 3 toilet 1
20. Male dormitory 3 store room
21. Male dormitory 3 kitchen & dining
22. Male dormitory 3 living
23. Gallery (at male dormitory)
24. Senior room
25. Utility balcony

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SECTION X-X

DESIGN STAGE	
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- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:200
FIRST EMISSION 26/02/2021		DRAWING NUMBER A-4.01			REVISION 00
UPDATE 07/03/2021					

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:20
FIRST EMISSION 26/02/2021		DRAWING NUMBER A-5.01		REVISION 00	
UPDATE 07/03/2021					

Diagram illustrating the cross-section of a parapet wall and beam connection. The wall is 100mm thick and 1200mm high. It features T10 reinforcement bars at 200mm center-to-center (C/C) spacing, with vertical bars anchored 500mm into the slab. The beam is shown below the wall, with the Finished Floor Level (FFL) indicated. The beam is labeled "Beam" and the wall is labeled "100mm thk RC parapet wall".

Diagram illustrating the cross-section of a roof structure, showing the following components and dimensions:

- RC stiffener beam cast on masonry wall
- 150 mm thk masonry wall plastered on both sides
- 944
- 150
- 125 mm thk RC slab
- 150 mm thk RC lift walls
- Lysaught flashing
- Lysaught roofing sheets
- 35 X 50 timber battens at 600 mm C/C
- 50 X 150 timber rafters at 700 C/C
- Ceiling framing struts fixed to rafters
- RC kicker
- T10@150 bars embedded into RC floor

Diagram illustrating the cross-section of a parapet wall and roof edge detail, showing the following components and dimensions:

- 50 mm thk screed (sloped to drain)
- 150 mm wide drain on four sides (drain created from screed)
- 150 X 150 RC lip with T10@150 B/W
- 600
- Rain water drop groove (10mm x 20mm)
- RC beam

Technical diagram illustrating the construction of a roof valley, showing the intersection of two roof planes. The diagram includes the following components and dimensions:

- 50 mm minimum but 100 mm recommended**: Dimension for the overlap of the roofing underlay.
- 80 mm minimum roof overhangs**: Dimension for the overhang of the corrugated lyaught roofing.
- Corrugated lyaught roofing**: The main roof covering material.
- Roofing underlay with 20mm maximum overhang**: The underlayment material.
- 50x35 timber purlins**: The horizontal structural members supporting the roofing.
- Extend up beyond purlin**: Instruction for the underlay to extend above the purlin.
- 50 x 35 timber purlins**: The horizontal structural members supporting the roofing.
- 50 x 150 timber rafters**: The vertical structural members supporting the purlins.
- Continuous solid support for valley gutter**: The support structure for the valley gutter.
- Valley rafter**: The central rafter supporting the valley gutter.
- 20 mm minimum upstand to valley gutter**: The minimum height of the upstand.
- 50 mm minimum valley gutter depth**: The minimum depth of the valley gutter.
- Metal valley gutter folded over purlins both sides (laid over continuous roofing underlay if copper-based treatment is used)**: The gutter material and its installation details.

100 mm thk solid block wall

Metal mesh

Sonastick NP1 (BASF) or similar which is anti-fungus silicon fill

20 mm plastering (10 mm 1st coat 10 mm 2nd coat)

13 mm plastering on all internal surfaces

600 x 600 homogeneous floor tiles

FFL

38 mm thk cement screed

Floor structure (verify structural)

Reinforced concrete beam (verify structural)

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ARCHITECTURAL DETAILS 2

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY  
DE

DESIGNED BY	ISHA
-------------	------

CHECKED BY	
LAYANA	

DISCIPLINE	
ARCHITECTURAL	

SHEET SIZE	A3
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SCALE
1:20

FIRST EMISSION  
26/02/2021

N	DRAWING NUMBER
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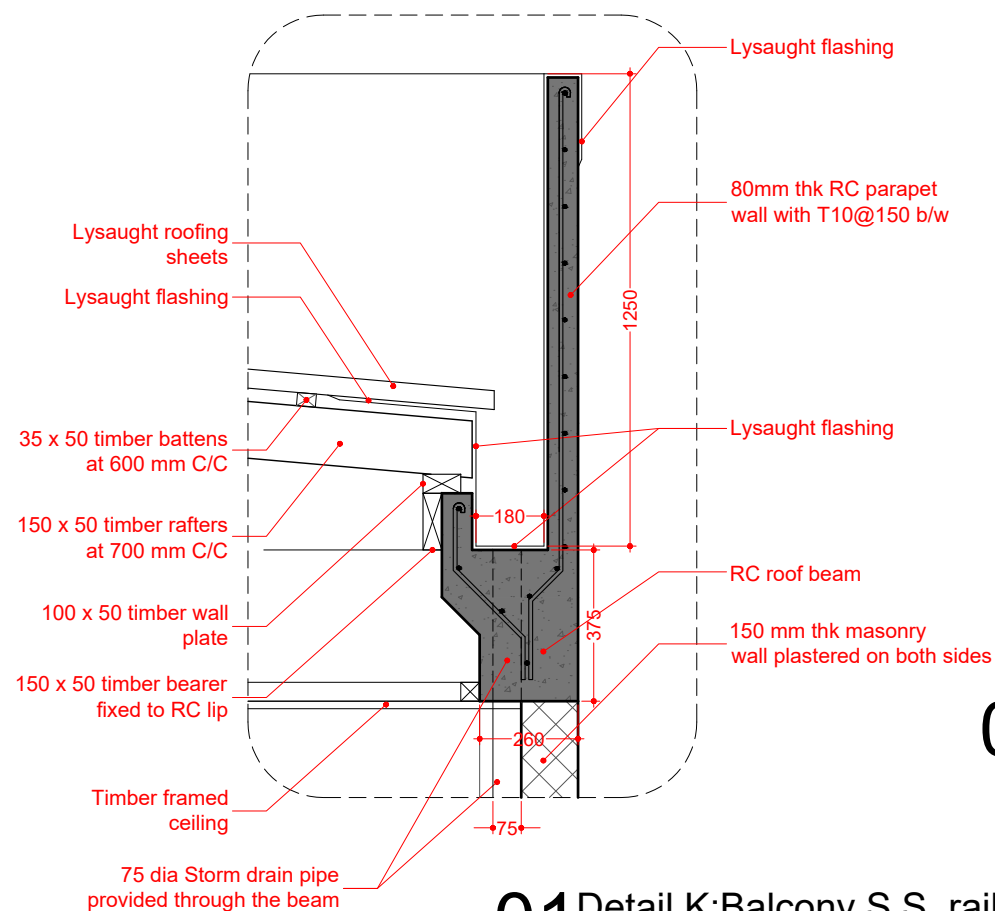
REVISION	
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UPDATE
07/03/2021

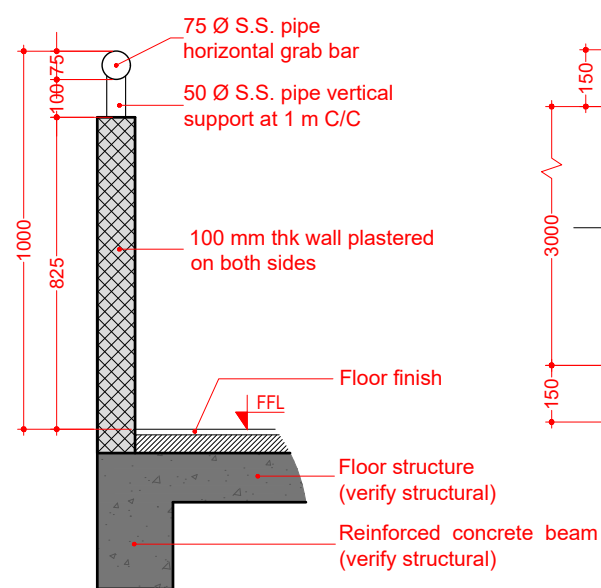
A-5.02

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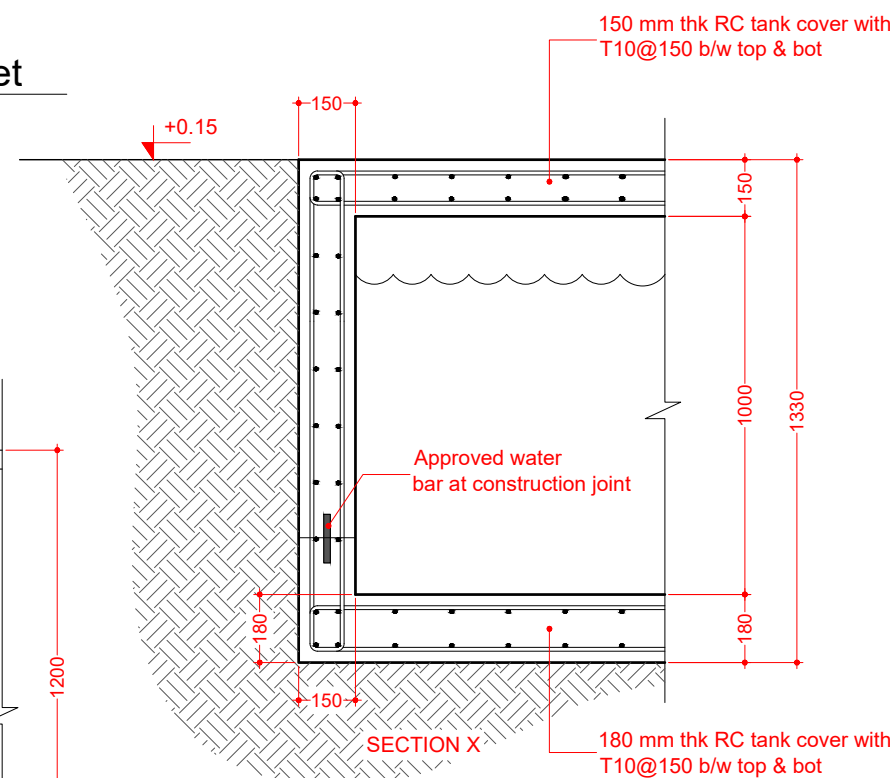
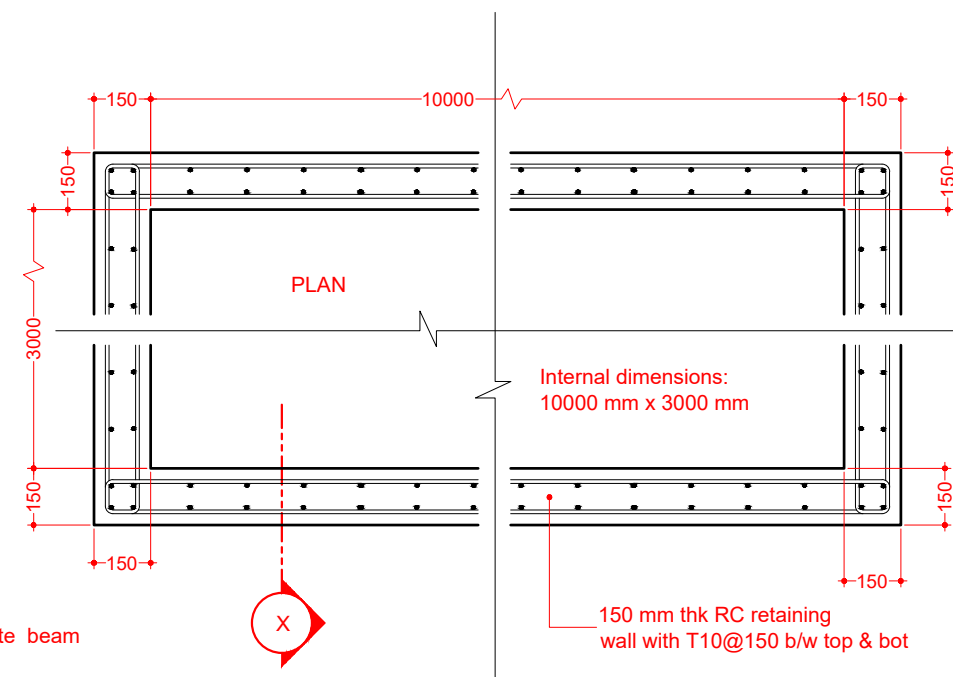




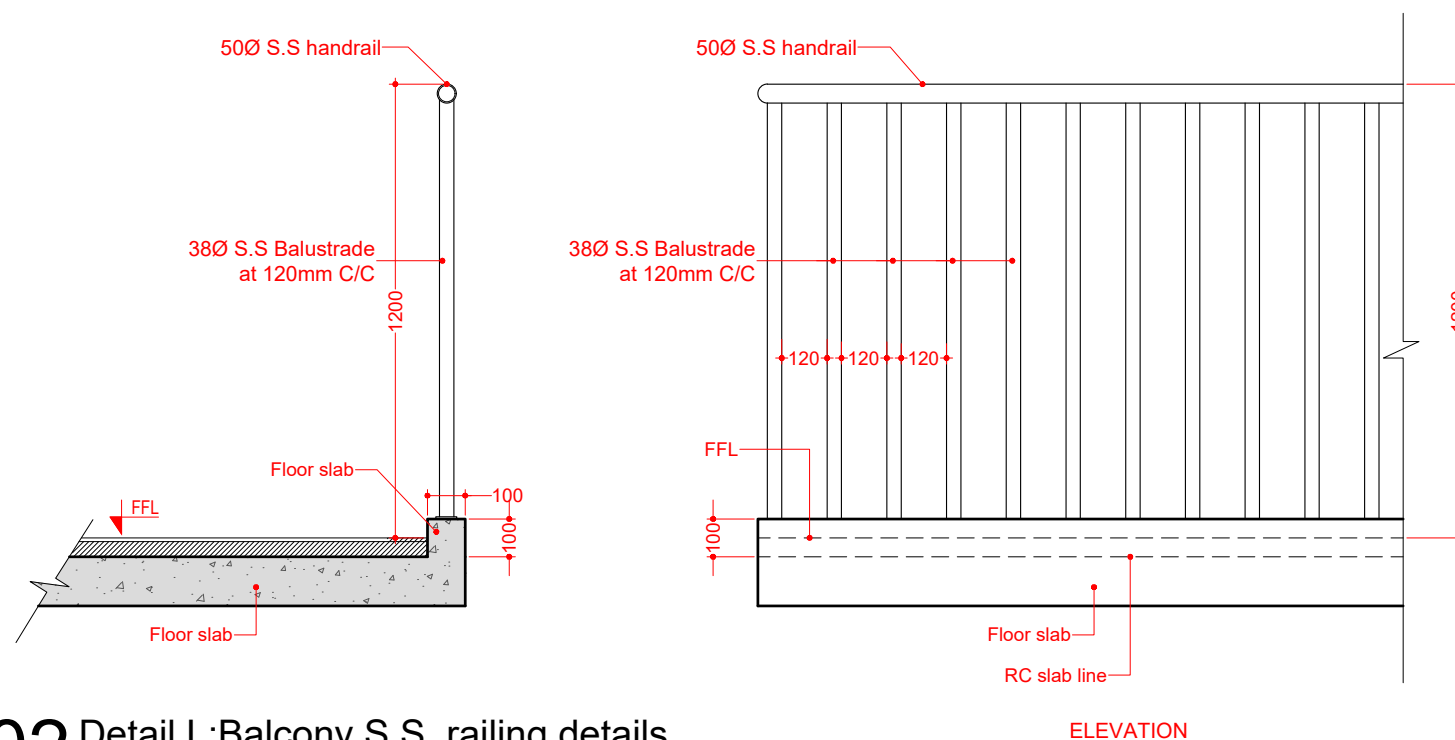
## 01 Detail K: Balcony S.S. railing details



### 03 Detail M: Blockwall parapet



## 04 Detail O: Water collection tank



## 02 Detail L: Balcony S.S. railing details

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ARCHITECTURAL DETAILS 3

DESIGN STAGE
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- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:20
FIRST EMISSION 26/02/2021		DRAWING NUMBER A-5.03			REVISION 00
UPDATE 07/03/2021					



Lift brand: To be selected by client  
Door type: 2-panel center opening doors

1. Contractor shall check with lift supplier for sleeve openings for services and shall be provided for in structural members at the time of casting with prior approval from client's engineer
2. Below spec are typical specs and shall be verified with supplier

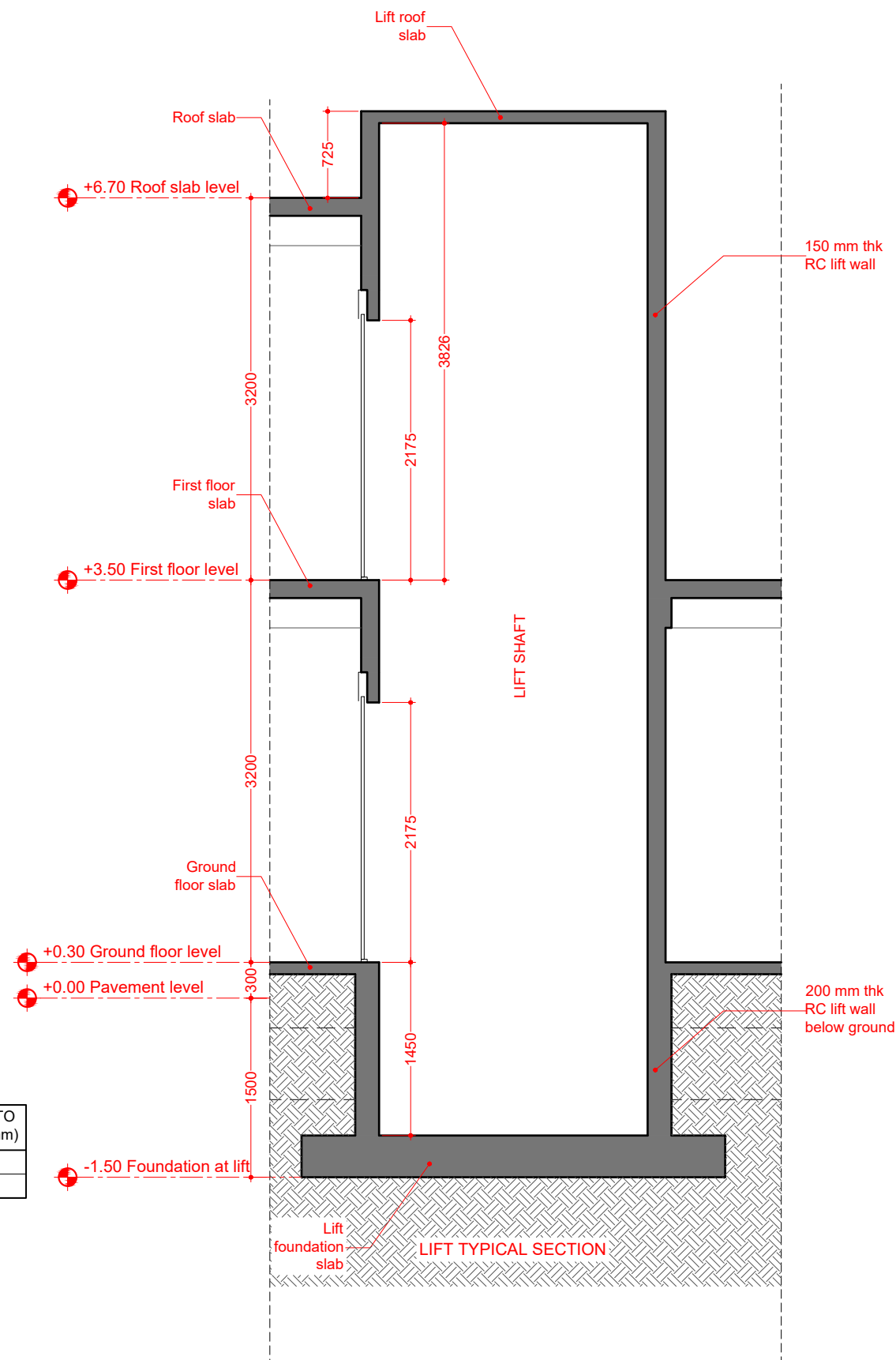
LIFT	NUMBER OF PERSONS	RATED CAPACITY (kg)	ENTRANCE WIDTH (mm)	CAR INTERNAL DIMENSIONS (mm)	COUNTERWEIGHT POSITION	PROVIDED HOISTWAY DIMENSIONS (mm)
LIFT 1	14	1050	900	1600 x 1400	REAR	2250 x 1720
LIFT 2	6	450	800	950 x 1300	SIDE	1700 x 1450

LIFT	RATED SPEED (m/sec)	TRAVEL (m) TR	MAXIMUM NUMBER OF FLOORS	MINIMUM OVERHEAD (mm) OH	MINIMUM PIT DEPTH (mm) PD	MINIMUM FLOOR TO FLOOR HEIGHT (mm)
LIFT 1	1.60	TR ≤ 60	30	3800	1400	2500
LIFT 2	1.60	TR ≤ 60	30	3800	1400	2500

Technical drawing of a square room with dimensions and furniture layout. The room is square with a side length of 1700 mm. The drawing shows a central area labeled 'Lit 2' (Bed 2) with a dashed diagonal line. The room is surrounded by a thick wall. Dimensions are indicated by red lines and numbers: 1450 mm (top), 150 mm (top-left), 150 mm (top-right), 300 mm (right), 150 mm (right), 1000 mm (right), 700 mm (bottom-right), 150 mm (bottom-right), 150 mm (bottom), 1750 mm (bottom), 150 mm (bottom-left), 150 mm (left), 2000 mm (left), and 1700 mm (left). The drawing is labeled 'Lit 2' in the center.

Below ground:  
Lift wall thickness = 200 mm  
Reinforcement = T10@150 b/w 2-layers

Above ground:  
Lift wall thickness = 150 mm  
Reinforcement = T10@150 b/w 1-layer



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ARCHITECTURAL DETAILS 4

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE	DATE DE
----------------	------------

DESIGNED BY	ISHA
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CHECKED BY	
LAYANA	

DISCIPLINE  
ARCHITECTURAL

SHEET SIZE	A3
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SCALE  
1:50

FIRST EMISSION  
26/02/2021

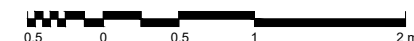
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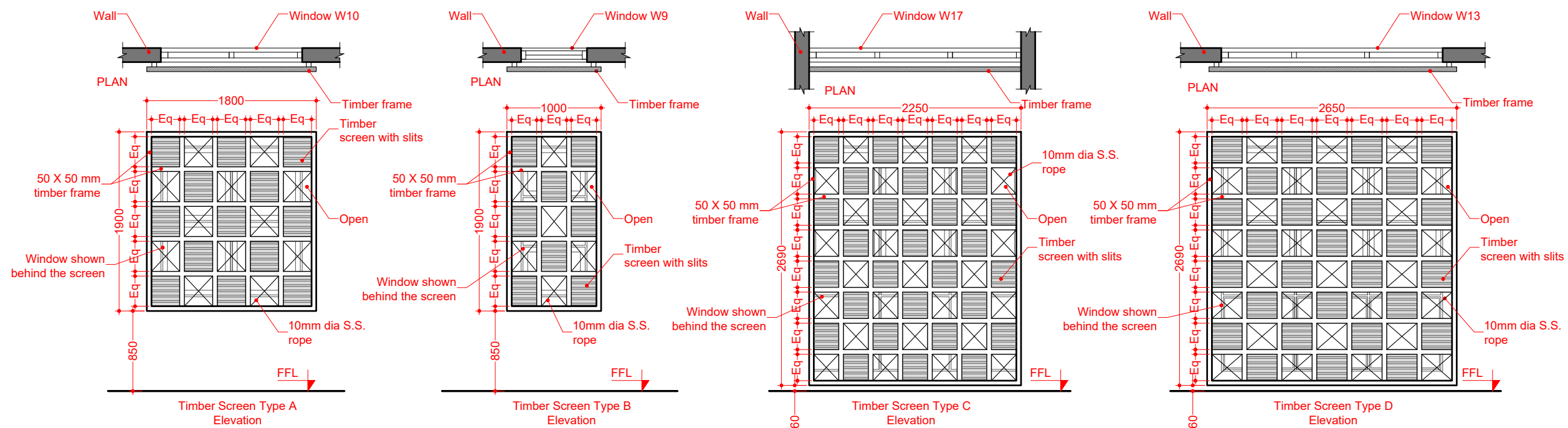
	REVISION
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UPDATE
07/03/2021

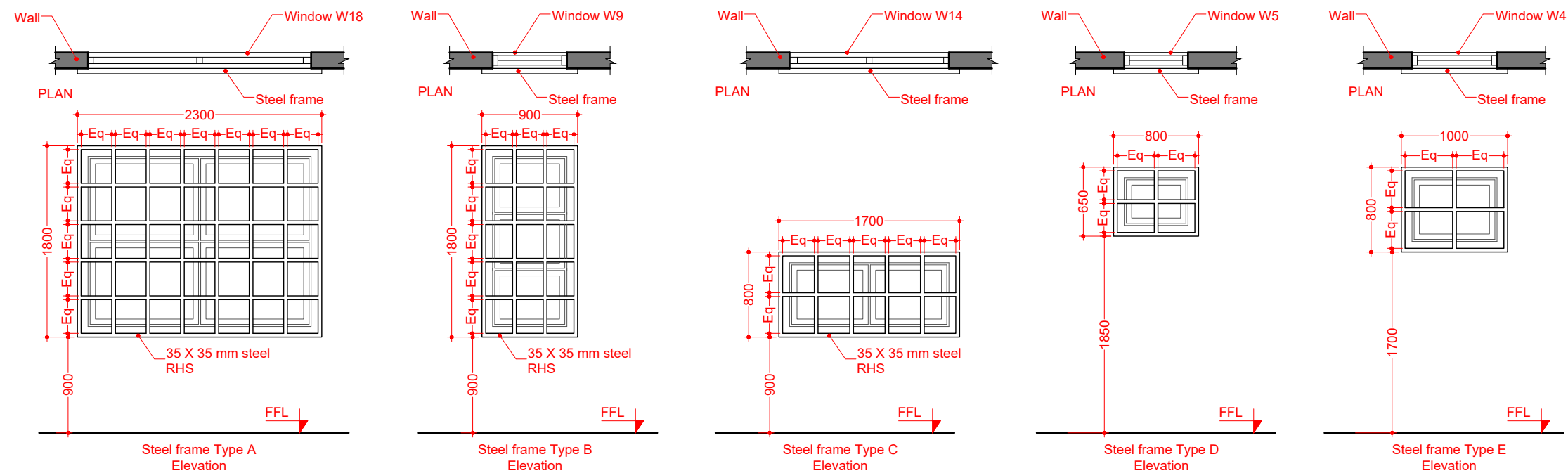
A-5.03

00





## 01 Timber screen details



## 02 Steel frame details

- Notes:
1. All frames are fixed on the external side of the wall
  2. Refer floor plan for location and placement of the frames



**GENERAL NOTES:**

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3. All dimensions shall be verified on site before proceeding with work
4. Any areas indicated on this sheet are approximate and indicative only
5. Design Express shall be notified in writing of any discrepancies

[illegible]

KEY PLAN



DesignExpress

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MALÉ 20042, REPUBLIC OF MALDIVES

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MINISTRY OF HOME AFFAIRS

PROJECT
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PROPOSED TWO STOREY  
JUVENILE RESIDENTIAL CENTER  
DH. KUDAHUVADHOO

TITLE	ARCHITECTURAL DETAILS 5
-------	-------------------------

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:50
FIRST EMISSION 26/02/2021		DRAWING NUMBER  A-5.04		REVISION  00	
UPDATE 07/03/2021					



[illegible]

#	SPACE DESCRIPTION	AREA m <sup>2</sup>	LEVEL m	CEILING HEIGHT m	FLOOR FINISH	WALL FINISH	CEILING FINISH	NOTES
	FIRST FLOOR							
P	ADMINISTRATION							
	1. Open terrace	19.80	3.47	OPEN	600 x 600 non-skid tiles	White matt paint	-	
	2. Meeting room	45.36	3.50	2.60	Carpet	White matt paint	Mineral fiber board on grid	
	3. IT room	23.68	3.50	2.60	Carpet	White matt paint	Mineral fiber board on grid	
	4. Waiting room	27.49	3.50	2.60	600 x 600 homogeneous tiles	White matt paint	White matt paint on gypsum	
	5. Counseling room	24.84	3.50	2.60	Carpet	300 x 600 homogenous tiles	Mineral fiber board on grid	
	6. Classroom 1	19.31	3.50	2.60	600 x 600 homogeneous tiles	300 x 600 homogenous tiles	Mineral fiber board on grid	
	7. Classroom 2	19.31	3.50	2.60	600 x 600 homogeneous tiles	300 x 600 homogenous tiles	Mineral fiber board on grid	
	8. Male washroom	3.32	3.50	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	9. Male toilet 1	1.39	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	10. Male toilet 2	1.39	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	11. Female washroom	3.32	3.50	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	12. Female toilet 1	1.39	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	13. Female toilet 2	1.39	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	

[illegible]

#	SPACE DESCRIPTION	AREA m <sup>2</sup>	LEVEL m	CEILING HEIGHT m	FLOOR FINISH	WALL FINISH	CEILING FINISH	NOTES
	FIRST FLOOR							
Q	MALE DORMITORY 2							
	1. Living, dining, kitchen & washroom	34.08	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	2. Room 1	15.80	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	3. Room 2	15.80	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	4. Study room	6.15	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	5. Prayer room	5.25	3.50	3.05	Carpet	White matt paint	White matt paint on slab	
	6. Store room	2.07	3.50	3.05	300 x 300 ceramic tiles	White matt paint	White matt paint on slab	
	7. Toilet 1	1.38	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	8. Toilet 2	1.38	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	9. Shower 1	1.47	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	10. Shower 2	1.47	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	11. Gallery	35.59	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
R	MALE DORMITORY 3							
	1. Living, dining, kitchen & washroom	34.08	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	2. Room 1	15.80	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	3. Room 2	15.80	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	4. Study room	6.15	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	5. Prayer room	5.25	3.50	3.05	Carpet	White matt paint	White matt paint on slab	
	6. Store room	2.07	3.50	3.05	300 x 300 ceramic tiles	White matt paint	White matt paint on slab	
	7. Toilet 1	1.38	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	8. Toilet 2	1.38	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	9. Shower 1	1.47	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
S	SPECIAL DORMITORY							
	1. Living, dining, kitchen & washroom	34.08	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	2. Room 1	15.80	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	3. Room 2	15.80	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	4. Study room	6.15	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on slab	
	5. Prayer room	5.25	3.50	3.05	Carpet	White matt paint	White matt paint on slab	
	6. Store room	2.07	3.50	3.05	300 x 300 ceramic tiles	White matt paint	White matt paint on slab	
	7. Toilet 1	1.38	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	8. Toilet 2	1.38	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	9. Shower 1	1.47	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	10. Shower 2	1.47	3.47	2.60	300 x 300 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	11. Open terrace	14.48	3.47	OPEN	600 x 600 non-skid tiles	White matt paint	-	
T	EXECUTIVE QUARTER							
	1. Living, dining & kitchen	31.62	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on gypsum	
	2. Executive room	20.54	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on gypsum	
	3. Executive bath	7.06	3.47	2.60	300 x 600 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	4. Senior room	15.80	3.50	3.05	600 x 600 homogeneous tiles	White matt paint	White matt paint on gypsum	
	5. Senior bath	4.29	3.47	2.60	300 x 600 non-skid tiles	300 x 600 homogenous tiles	White matt paint on gypsum	
	6. Store room	5.80	3.50	3.05	300 x 300 ceramic tiles	White matt paint	White matt paint on gypsum	
	7. Utility balcony	5.37	3.47	3.05	300 x 300 non-skid tiles	White matt paint	White matt paint on gypsum	

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REV	DESCRIPTION	DATE
00	INCEPTION	20/02/2021

KEY PLAN



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PROJECT  
PROPOSED TWO STOREY  
JUVENILE RESIDENTIAL CENTER  
DH. KUDAHUVADHOO

TITLE  
SPACE PROGRAMME AND  
FINISHING SCHEDULE 3

DESIGN STAGE  
☐ CONCEPT DESIGN  
☐ DESIGN DEVELOPMENT  
☒ CONSTRUCTION DOCUMENTS  
☐ AS-BUILT DRAWINGS

DRAWN BY DE	DESIGNED BY ISHA	CHECKED BY LAYANA
DISCIPLINE ARCHITECTURAL	SHEET SIZE A3	SCALE NA
FIRST EMISSION 26/02/2021	DRAWING NUMBER A-6.03	REVISION 00
UPDATE 07/03/2021		



[illegible]

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DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:50
FIRST EMISSION 26/02/2021		DRAWING NUMBER A-6.04		REVISION 00	
UPDATE 07/03/2021					

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PROJECT

## PROPOSED TWO STOREY JUVENILE RESIDENTIAL CENTER

DH. KUDAHUVADHOO

TITLE
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DOOR WINDOW SCHEDULE 2

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA	CHECKED BY LAYANA
DISCIPLINE ARCHITECTURAL		SHEET SIZE A3	SCALE 1:50
FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
UPDATE 07/03/2021	A-6.05		00

**GENERAL NOTES:**

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## PROPOSED TWO STOREY JUVENILE RESIDENTIAL CENTER

DH. KUDAHUVADHOO

TITLE
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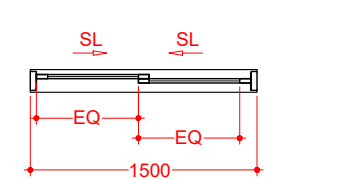
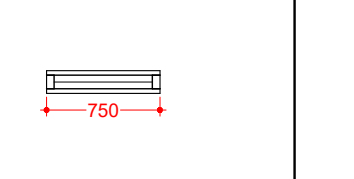
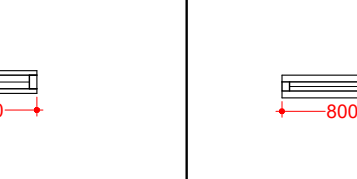
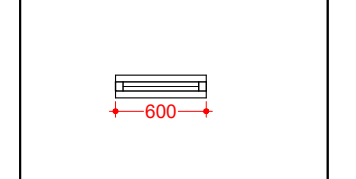
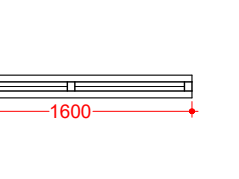
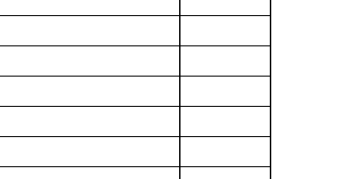
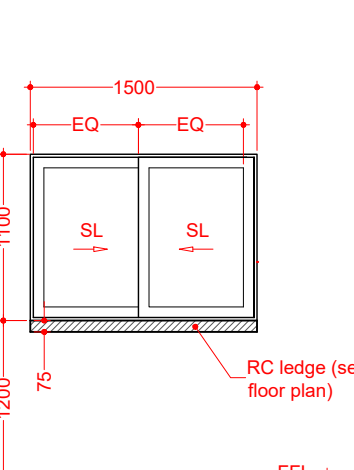
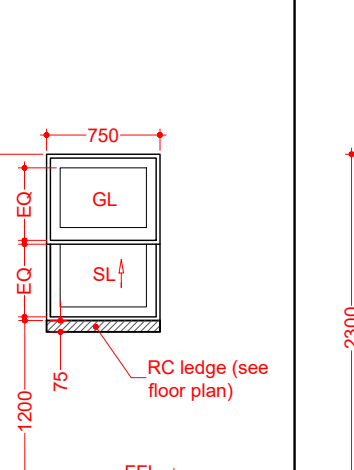
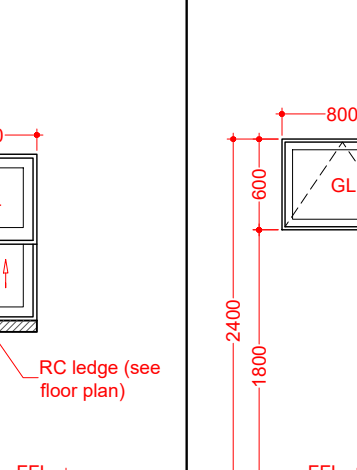
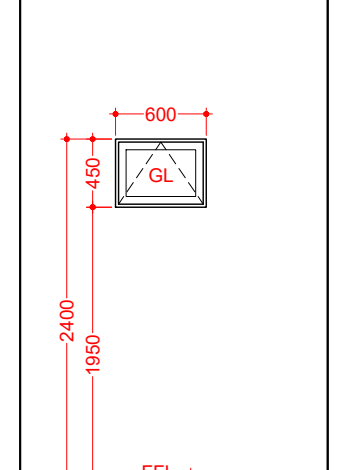
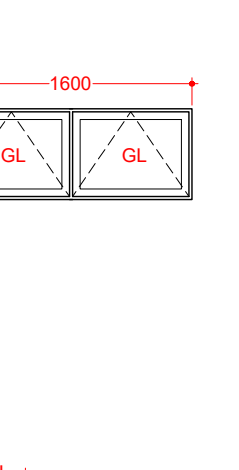
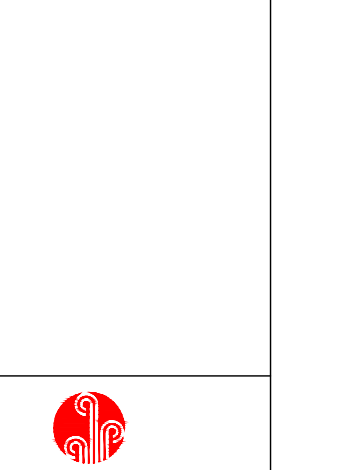
DOOR WINDOW SCHEDULE 3

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE	DESIGNED BY ISHA	CHECKED BY LAYANA
DISCIPLINE ARCHITECTURAL	SHEET SIZE A3	SCALE 1:50
FIRST EMISSION 26/02/2021	DRAWING NUMBER	REVISION
UPDATE 07/03/2021	A-6.06	00



SYMBOL	W1			W2			W3			W4			W5			W6		
	OPENABLE AREA			OPENABLE AREA			OPENABLE AREA			OPENABLE AREA			OPENABLE AREA			OPENABLE AREA		
	0.74 m <sup>2</sup>			0.34 m <sup>2</sup>			0.29 m <sup>2</sup>			0.43 m <sup>2</sup>			0.23 m <sup>2</sup>			0.86 m <sup>2</sup>		
PLAN																		
ELEVATION																		
LOCATION	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL
QUANTITY	06	00	06	06	00	06	06	00	06	16	09	25	06	12	18	02	01	03
OPERATION	Sliding window			Sliding window up			Sliding window up			Top-guided awning			Top-guided awning			Top-guided awning		
TYPE	Hollow core frame door			Hollow core frame door			Hollow core frame door			Hollow core frame			Hollow core frame			Hollow core frame		
MATERIAL	Aluminum with glazing			Aluminum with glazing			Aluminum with glazing			Aluminum with glazing			Aluminum with glazing			Aluminum with glazing		
FINISH	White powder coated			White powder coated			White powder coated			White powder coated			White powder coated			White powder coated		
NOTES	-			-			-			Used in toilets			Used in toilets			-		

Notes:

1. Window panels of W4, W5, W9, W10, W13, W14, W17 & W18 used on first floor Male Dormitories (2 & 3) shall open inwards
2. All windows in Male and Female Dormitories must use 10 mm thk PG (plexiglas) instead of ordinary glass

## 01 Door window schedule 4



**GENERAL NOTES:**

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KEY PLAN



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MINISTRY OF HOME AFFAIRS

PROJECT
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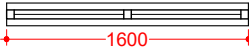



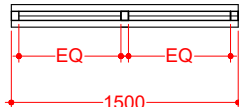
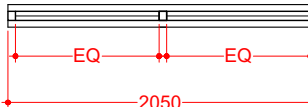
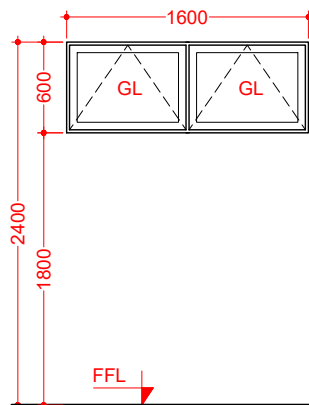
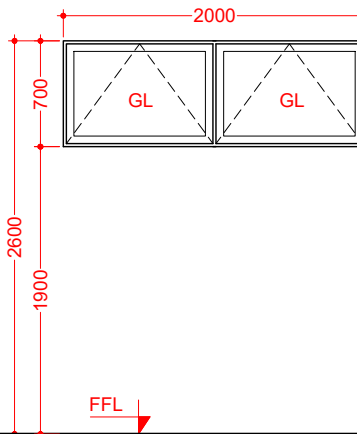
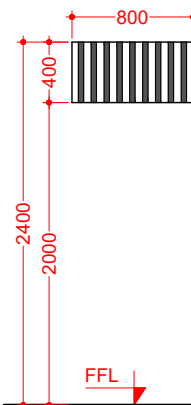
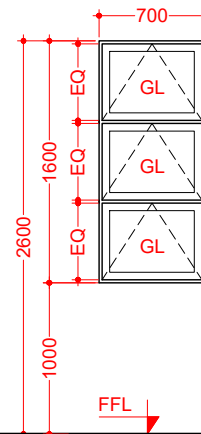
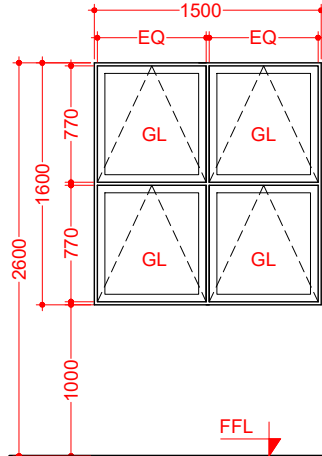
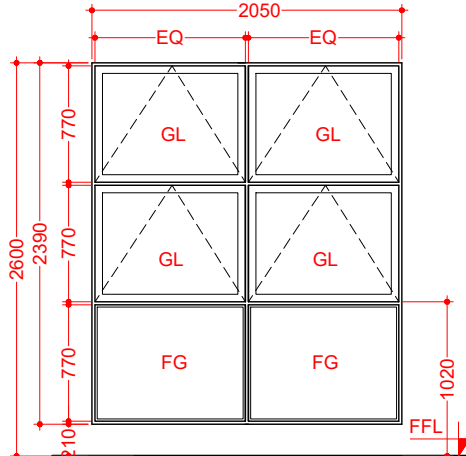
PROPOSED TWO STOREY  
JUVENILE RESIDENTIAL CENTER  
DH. KUDAHUVADHOO

TITLE	DOOR WINDOW SCHEDULE 4
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DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:50
FIRST EMISSION 26/02/2021		DRAWING NUMBER  A-6.07		REVISION  00	
UPDATE 07/03/2021					

SYMBOL	W6(a)			W7			W8			W9			W10			W11		
	OPENABLE AREA			OPENABLE AREA			OPENABLE AREA			OPENABLE AREA			OPENABLE AREA			OPENABLE AREA		
	0.86 m <sup>2</sup>			1.28 m <sup>2</sup>			0.32 m <sup>2</sup>			1.00 m <sup>2</sup>			2.22 m <sup>2</sup>			3.14 m <sup>2</sup>		
PLAN																		
ELEVATION																		
LOCATION	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL
QUANTITY	00	01	01	07	00	07	07	00	07	11	15	26	10	07	17	02	05	07
OPERATION	Top-guided awning			Top-guided awning			Fixed bars			Top-guided awning			Top-guided awning			Top-guided awning		
TYPE	Hollow core frame			Hollow core frame			Steel bars embedded in wall			Hollow core frame			Hollow core frame			Hollow core frame		
MATERIAL	Aluminum with glazing			Aluminum with glazing			Steel G.I pipe 35mm Ø			Aluminum with glazing			Aluminum with glazing			Aluminum with glazing		
FINISH	White powder coated			White powder coated			White painted			White powder coated			White powder coated			White powder coated		
NOTES	Used in toilets			-			-			-			-			-		

Notes:

1. Window panels of W4, W5, W9, W10, W13, W14, W17 & W18 used on first floor Male Dormitories (2 & 3) shall open inwards
2. All windows in Male and Female Dormitories must use 10 mm thk PG (plexiglas) instead of ordinary glass

## 01 Door window schedule 5

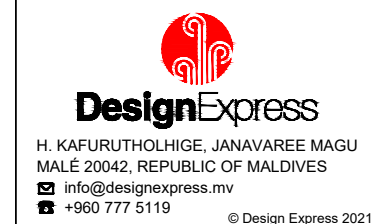


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[illegible]

KEY PLAN



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MINISTRY OF HOME AFFAIRS
PROJECT
PROPOSED TWO STOREY JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO
TITLE
DOOR WINDOW SCHEDULE 5

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:50
FIRST EMISSION 26/02/2021		DRAWING NUMBER			REVISION
UPDATE 07/03/2021		A-6.08			00









## GENERAL NOTES

## GENERAL

1. The contractor is required to submit coordinated M&E penetration drawings for approval.
2. All structural drawings shall be read in conjunction with all architectural and service drawings, specifications and written instructions if issued during the course of the contract. all discrepancies shall be refereed for decision before proceeding with the work. if a conflict occurs between general specifications and any of these drawings, the individual drawings shall govern.
3. The drawings shall not be scaled. all dimensions relevant to setting out and off-site shall be verified by the contractor before construction and fabrication is commenced.
4. During the construction period the contractor shall be responsible to maintain the stability of structure and ensure that no structural element be overstressed under construction activities.
5. Workmanship and materials shall be in accordance with the relevant recent BS codes or other acceptable standards.
6. Based on the drawings and specifications the contractor shall produce structural shop drawings for approval if requested.
7. All dimensions to structural drawings are in millimeters unless stated otherwise. all levels are expressed in meters.
8. The reinforced concrete design is based on BS 8110 'Structural use of Concrete'
9. Refer to standard and typical details as shown in the typical drawings for details not shown specifically.
10. All props and framework for beams and slabs shall be removed before construction of any masonry walls or other permanent loading on the slab.
11. All non-load bearing walls shall be kept clear off the underside of slabs and beams by 30 mm. the joint shall be filled with fibre board or compressible material pressed metal covering both sides of the joint, and the metal covering shall be fixed to soffit of the beam or slab as the case maybe.
12. The contractor is required to submit a drawing showing the intended sequence of pouring, location and details of construction joints to minimize the possibility of occurrence of shrinkage cracks.
13. Prior to commencement of work the contractor shall submit the following for the approval by the employer's personnel:
  - 13.1. Method and sequence of construction.
  - 13.2. Design and calculation of temporary support to excavation prepared and approved by an accredited geotechnical engineer.
  - 13.3. Instrumentation programme to monitor soil movement, water table and settlement.
  - 13.4. Effects of ground water level draw-down.
  - 13.5. Precautionary measures to avoid damage to neighboring building structures.

## FOUNDATIONS

1. All foundations has been designed for safe ground pressure of 150 kN/m<sup>2</sup>
2. All backfill should be done with approved material and source. all backfill should be structural fill, compacted in layers as specified.
3. Weak pockets found below the assumed foundation levels shall be removed and replaced by plain concrete.
4. In case of excavations below the assumed level of the foundation, the soil shall be replaced by plain concrete.
5. In case ground water is present above foundation level, the contractor shall be responsible for dewatering the site, and lowering the ground water to at least 70 cm below level of foundations.
6. The contractor shall maintain dry working conditions throughout the construction period. restoring water table can be done after backfilling and compaction up to the slab on grade level, or as directed by the engineer.
7. No back filling shall be placed against walls retaining earth, unless the walls achieve sufficient strength to prevent movement or structural damage.

## REINFORCEMENT

1. High strength deformed bars denoted T shall conform to BS 4449 with minimum yield strength  $f_y = 460 \text{ N/mm}^2$ , mild steel denoted R shall have  $250 \text{ N/mm}^2$  yield strength. welded wire mesh shall comply with BS 4483.
2. Splices in reinforcement shall be made only in the position shown or as otherwise approved
3. Spacer bars shall be provided at 100 cm centers wherever reinforcement is placed in more than one layer, unless stated otherwise
4. Welding of reinforcement shall not be permitted. If reinforcement should be welded, approval is required.
5. All reinforcement shall be supported in its correct position during concreting by approved bar chairs, spacers, or support bars.
6. Typical development and splices of deformed bars with  $f_y = 460 \text{ N/mm}^2$  and  $f_{cu} = 30 \text{ N/mm}^2$ , (cube strength) shall be as follows, unless otherwise mentioned in drawings:
  - 6.1. Basic tension development length,  $LD = 56 \times \text{bar Dia}$
  - 6.2. Minimum compression development length,  $LDC = 40 \times \text{bar Dia}$  (or 300 mm which ever is more)
7. Bending of reinforcements shall be in accordance with BS 4466.

## CONCRETE

1. Cement shall be Ordinary Portland Cement to BS 12.
2. Concrete grade:
  - 2.1. All in-situ structural concrete shall have minimum 28 days cube strength as specified on foundation plan to the relevant clauses of BS 5328.
  - 2.2. All plain concrete (or blinding) shall have minimum 28 days cube strength of 15 N/mm<sup>2</sup>, to the relevant clauses of BS 5328.
3. Aggregates shall be to BS 882 with a nominal size of 20 mm
4. Sulphate resisting cement shall be used for all concrete in contact with garbage.
5. No openings, holes, chases or embedment of pipes other than those in the structural drawings shall be made in concrete members without prior approval.
6. Construction and expansion joints shall be properly formed and used only where shown or specifically approved.
7. No electrical conduit and pipes are to be cast in columns or through beams without prior approval unless otherwise shown in the drawings.
8. Opening in slabs:
  - 8.1. For opening less than 300 x 300 mm, bars shall be re-arranged around the opening.
  - 8.2. For openings greater than 300 x 300 mm but less than 450 x 450 mm and not shown on plan, provide 2 Dia 12 top and bottom along each side and T16 diagonally at corners or as otherwise detailed. amount of bars discontinued due to the opening shall be placed at the respective sides.
  - 8.3. Openings greater than 450 x 450 mm and not shown on plan shall be approved.
9. Shear key shall be provided at all construction joints.
10. Waterproofing system as specified in the specifications shall be used in structural elements which are continuously in contact with soil or water on lift pit, roof slab, R.C. retaining wall and raft etc.
11. To provide integral sealing between concrete cast in-situ in separate pour, approved waterstop has to be installed for all construction joints in contact with water and soil.
12. Special rules regarding concreting in hot weather shall be observed.

## ABBREVIATIONS

Approx	-approximate
B	-beam
B.W.	-both ways
Bot or Btm	-bottom
BoB	-bottom of base
BoS	-bottom of steel
BoT	-bottom of truss
(B1)	-bottom steel bottom rnfmt.
(B2)	-bottom steel top rnfmt.
Bldg	-building
℄	-center line
C/C	-center to center
C	-column

## ABBREVIATIONS

Co-ord	-co-ordinate
DPC	-damp proof course
Det or Dtl	-detail
Dia	-diameter
D/B	-distribution bar
Dwg	-drawing
EF	-each face
EW	-each way
EL	-elevation (height)
EleV	-elevation (view)
EF	-far face
FS	-far side
FW	-fillet weld
FFL	-finished floor level
Fdn or Fnd	-foundation
FB	-foundation beam
GA	-general arrangement
G.I.	-galvanized iron
IL	-invert level
Lg	-long or length
Max	-maximum
Mkd	-marked
Min	-minimum
Misc	-miscellaneous
N/F	-near face
N/S	-near side
Nom	-nominal
NTS	-not to scale
Nos	-numbers
O/D	-outside diameter
PL	-pavement level
Proj	-projection
Qty	-quantity
Rnfmt.	-reinforcement
Rad	-radius
R.C.	-reinforced concrete
Req'd	-required
SW	-shear wall
Stiff	-stiffener
Sq	-square
SFL	-structural finish level
Thk	-thick (ness)
Temp	-temporary
ToB	-top of beam
ToC	-top of column
ToG	-top of grout
ToPlatf	-top of platform
TS	-top of slab
ToS	-top of steel
ToT	-top of truss
Typ	-typical
U/S	-underside
UNO	-unless noted otherwise
(T1)	-top steel top rnfmt.
(T2)	-top steel bottom rnfmt.
(UPB)	-upstand beam

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PROJECT

# PROPOSED TWO STOREY JUVENILE RESIDENTIAL CENTER

DH. KUDAHUVADHOO

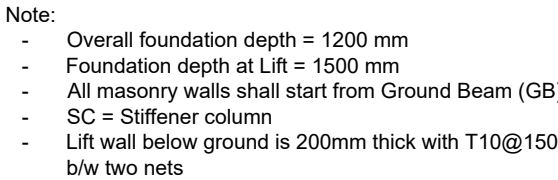
## GENERAL NOTES

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY RAMEEZ		CHECKED BY HANEEF	
DISCIPLINE STRUCTURAL			SHEET SIZE A3		SCALE NA
FIRST EMISSION 26/02/2021		DRAWING NUMBER  S-1.01		REVISION  00	
UPDATE 07/03/2021					





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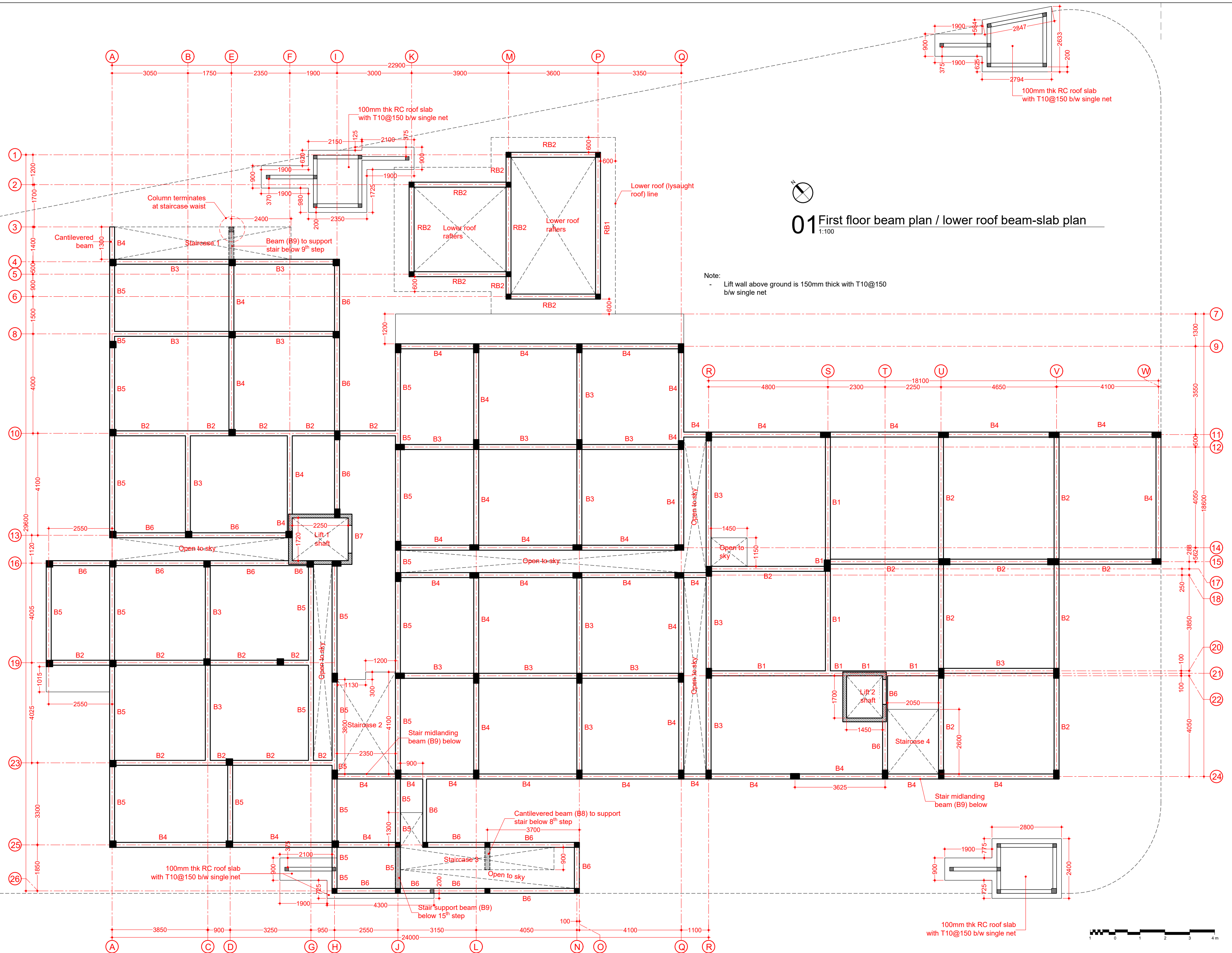
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TITLE  
FOUNDATION PLAN

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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DISCIPLINE STRUCTURAL		SHEET SIZE A2	SCALE 1:100
FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
UPDATE -	S-2.01		00



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TITLE	
FIRST FLOOR BEAM PLAN / LOWER ROOF BEAM-SLAB PLAN	

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

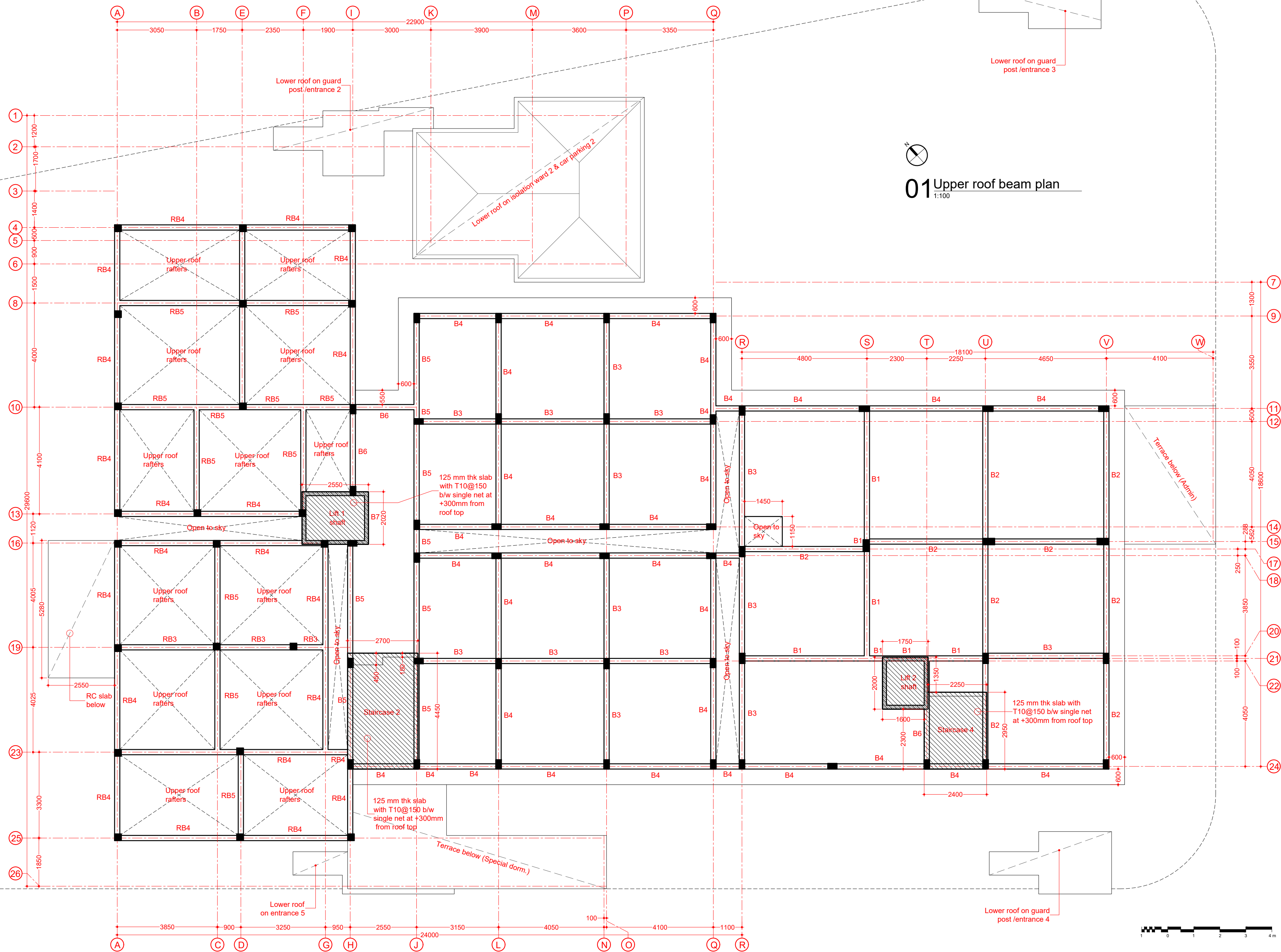
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FIRST EMISSION 26/02/2021	DRAWING NUMBER S-2.02	REVISION 00
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UPDATE	S-2.03	00
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100mm thk RC roof slab  
with T10@150 b/w single net



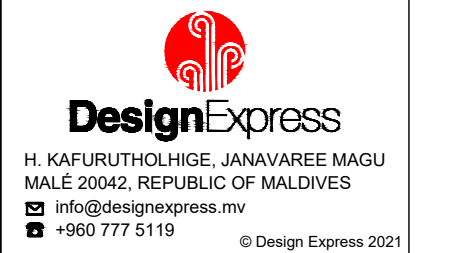
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TITLE	UPPER ROOF BEAM PLAN
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DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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DISCIPLINE STRUCTURAL			SHEET SIZE A2		SCALE 1:100
FIRST EMISSION 26/02/2021		DRAWING NUMBER		REVISION	
UPDATE		S-2.04		00	



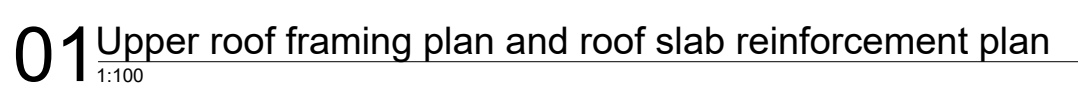
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Figure 10 shows two cross-sectional diagrams of a column, labeled (a) and (b), illustrating reinforcement details. Both diagrams show a column with a width of 350 mm and a total height of 650 mm. The column is supported by a footing. The reinforcement includes 4T16 bars at the top, 2T16 bars at the bottom, and 4T20 bars at the bottom. The spacing between the bars is T10@250 in (a) and T10@300 in (b). The column is shown with a 20 mm gap from the footing. The reinforcement is shown in a cross-section with a 20 mm gap from the footing.

@ Midspan

@ Support      @ Midspan

Figure 10 shows the reinforcement details of the column. (a) Reinforcement detail of the column. (b) Reinforcement detail of the column.

@ Midspan

Structural drawing of a staircase showing reinforcement details. The drawing includes a side elevation of the stairs with a tie beam TB2 at the base. Reinforcement bars are labeled: T10@100 (main bars) for the flight, T10@200 for the landing and tie beam, and T10@100 C/C for the knee bar. Dimensions include a total width of 600mm for the tie beam, a height of 250mm for the tie beam, and a vertical offset of +0.30m. A note states: "Bars shall be fully anchored into floor slab/midlanding beam". The ground level is marked as Ground FFL.

Timber beam

Hip/ridge beam

Rafters

Battens

Timber grade C30

## 04 Structural timber details

1.20

## 1.20

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## STRUCTURAL DETAILS 2

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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DESIGNED BY	RAMEEZ
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CHECKED BY	
HANEEF	

DISCIPLINE	
STRUCTURAL	

	SHEET SIZE
	A3

SCALE
1:20

FIRST EMISSION  
26/02/2021

N	DRAWING NUMBER
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07/03/2021

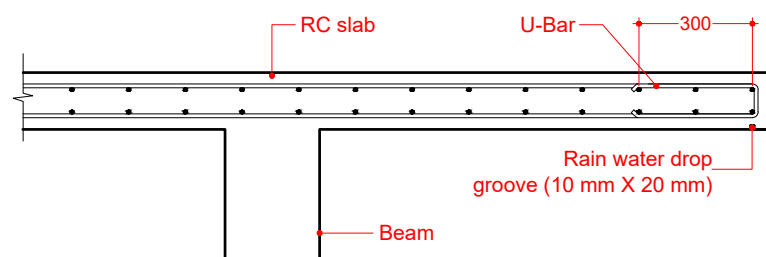
S-5.02

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L1 = Shorter span  
L2 = Longer span  
L3 = Cantilever length



Note:

1. Statatd details given here also applies to foundation members
2. Other details not found here shall be referred to in relevant BS codes or shall be approved by client's engineer

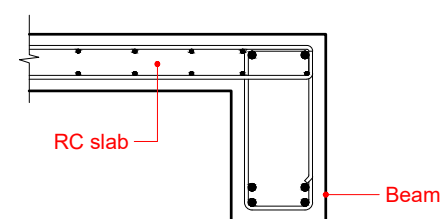


Diagram illustrating the cross-section of a rectangular link. The link is shown with a central rectangular core and an outer rectangular frame. The dimensions are defined as follows:

- Width: 8 BAR  $\varnothing$
- Height: 8 BAR  $\varnothing$

$\varnothing$  = Dia of link

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# STANDARD DETAILING RULES TO BS 8110









DESIGN STAGE








- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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DISCIPLINE STRUCTURAL		SHEET SIZE A3	SCALE 1:20
FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
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SYMBOL	LABEL	DESCRIPTION
	P18	1 gang 2 way switch
	P19	1 gang 1 way switch
	P20	2 gang 1 way switch
	P21	3 gang 1 way switch
	P22	4 gang 1 way switch
	P23	Fan/light dimmer switch
	V01	Dia. 1200 ceiling fan
	E01	Emergency light w/ socket

SYMBOL	LABEL	DESCRIPTION
	L01	1x36W Fluorescent lamp in surface mount luminaries with diffuser
	L02	600X600mm Ceiling recessed LED panel light
	L03	18W LED lamp in wall mount luminaries with diffuser (W/P)
	L04	18W LED lamp in wall mount luminaries with diffuser
	L06	LED strip light with proximity sensor
	L10	16W compact LED light in surface mount luminaries
	L11	16W compact LED light in recessed luminaries

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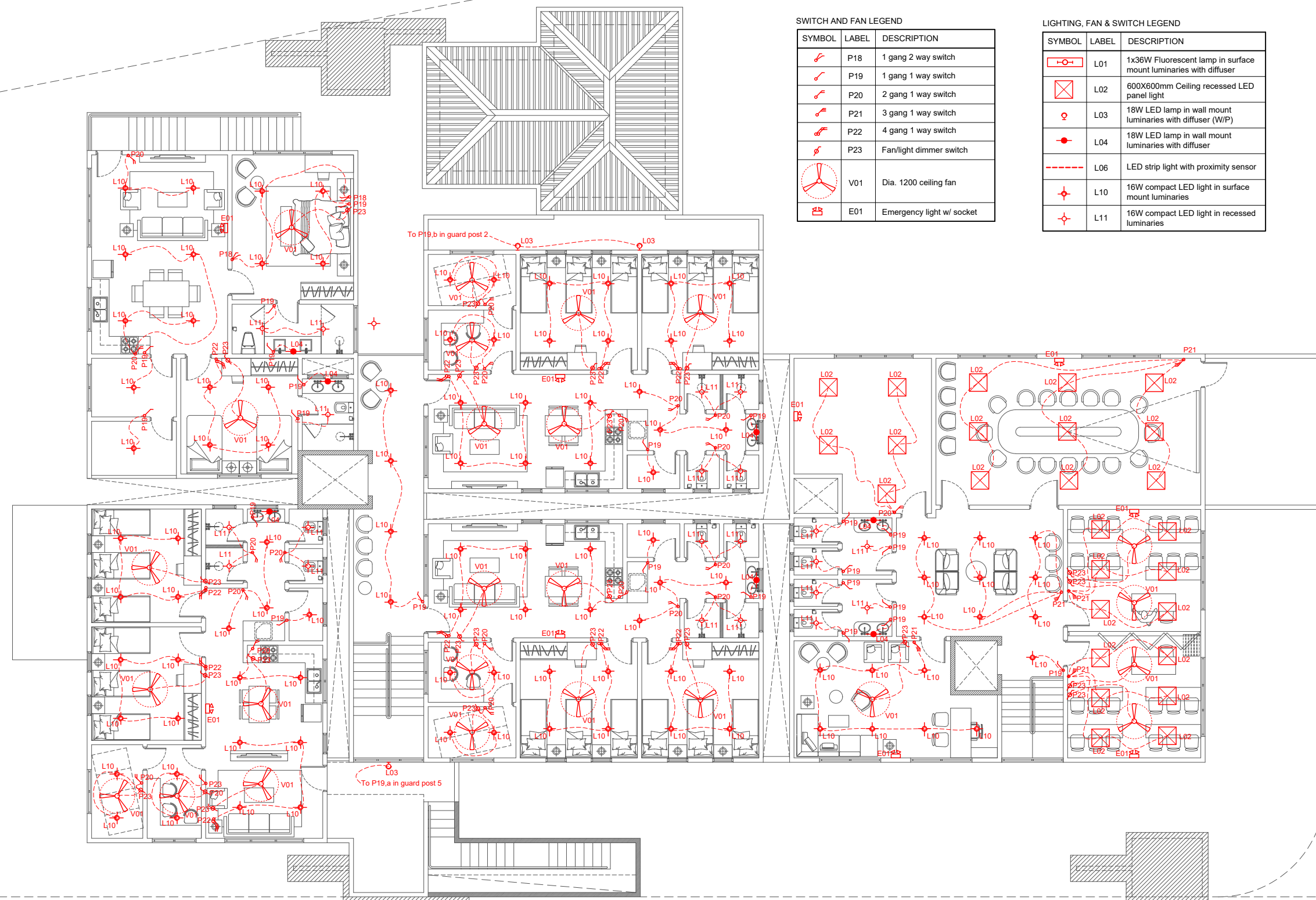
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TITLE	GROUND FLOOR LIGHTING PLAN
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- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY HANEEF		CHECKED BY HANEEF	
DISCIPLINE ELECTRICAL			SHEET SIZE A3		SCALE 1:150
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## 01 First floor lighting plan



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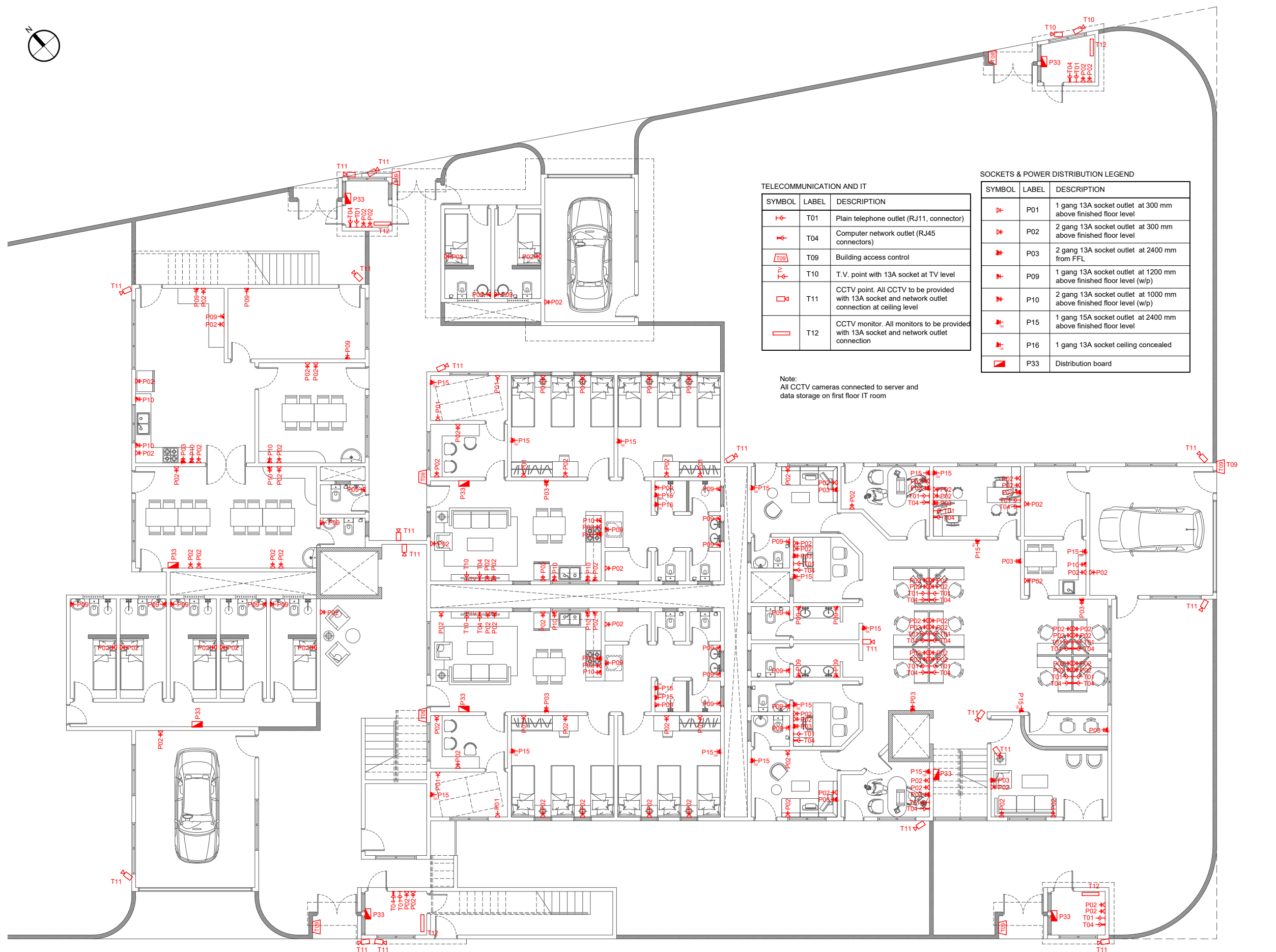
FIRST FLOOR LIGHTING PLAN

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
UPDATE 07/03/2021	E-2.02		00





## 01 Ground floor power & IT plan

Age Group	Number of People
1	2
0	1
1	3
2.5	5
5	2

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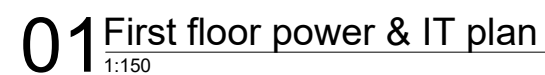
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## GROUND FLOOR POWER & IT PLAN

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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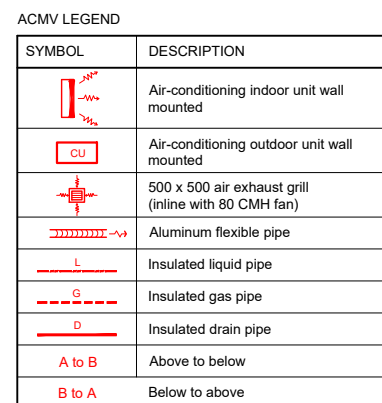
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## FIRST FLOOR POWER & IT PLAN

DESIGN STAGE	
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- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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DISCIPLINE ELECTRICAL		SHEET SIZE A3	SCALE 1:150
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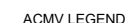
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GROUND FLOOR ACMV PLAN

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
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SYMBOL	DESCRIPTION
	Air-conditioning indoor unit wall mounted
	Air-conditioning outdoor unit wall mounted
	500 x 500 air exhaust grill (in-line with 80 CMH fan)
	Aluminum flexible pipe
	Insulated liquid pipe
	Insulated gas pipe
	Insulated drain pipe
	Above to below
	Below to above

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5. Design Express shall be notified in writing of any discrepancies

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PROPOSED TWO STOREY  
JUVENILE RESIDENTIAL CENTER  
DH. KUDAHUVADHOO

FIRST FLOOR ACMV PLAN

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY	DE
----------	----

DESIGNED BY  
HANEEF

CHECKED BY	
HANEEF	

DISCIPLINE	
ELECTRICAL	

	SHEET SIZE
	A3

E	SCALE
	1:150

FIRST EMISSION  
26/02/2021

W	DRAWING NUMBER
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	REVISION
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UPDATE
07/03/2021

E-2.06

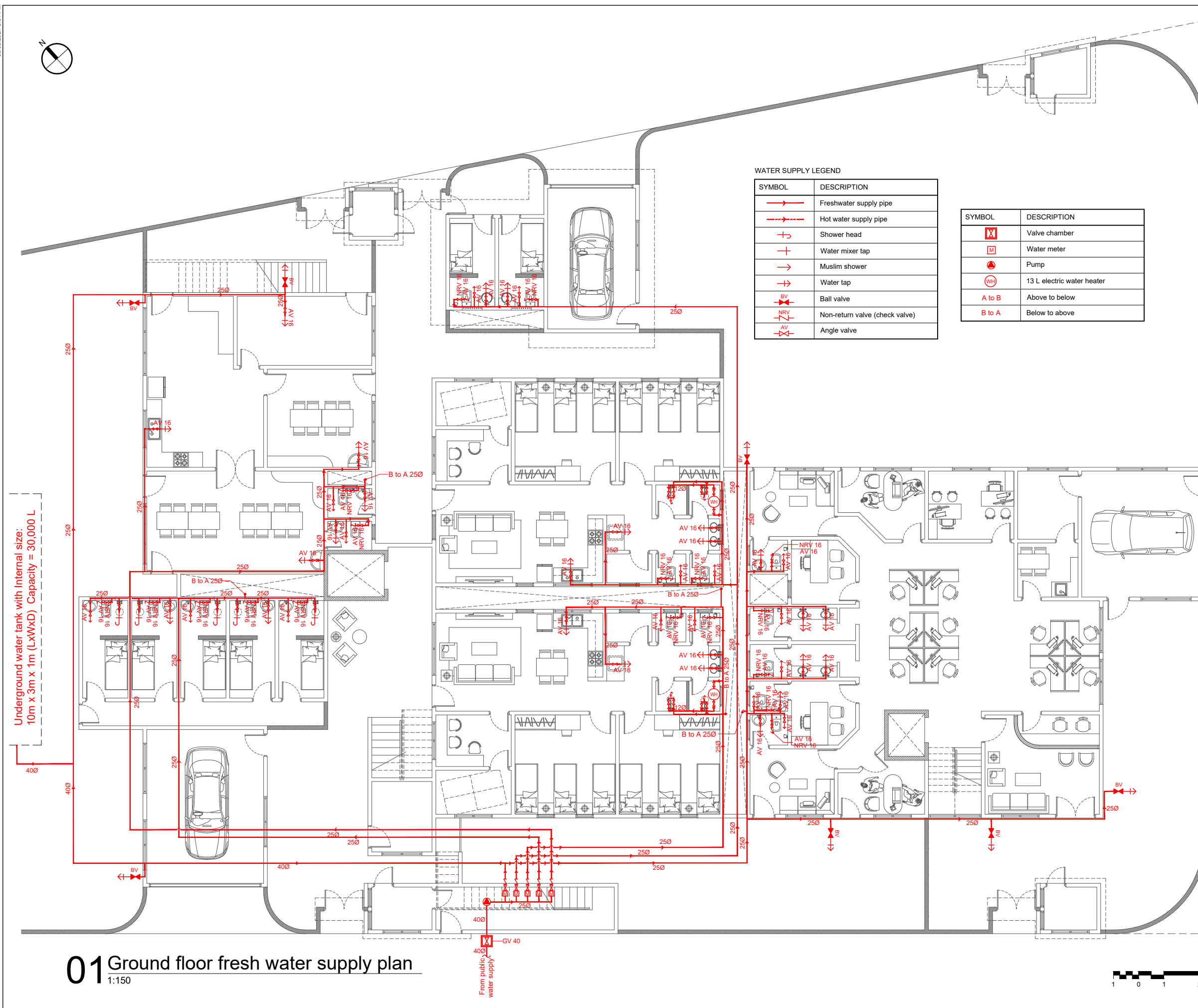
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## 01 First floor ACMV plan

1:150







## 01 Ground floor fresh water supply plan

Age Group	Number of People
1	2
0	3
1	4
2.5	6
5	8

**GENERAL NOTES:**

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







## GROUND FLOOR FRESH WATER SUPPLY PLAN





DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY <b>DE</b>		DESIGNED BY <b>HANEEF</b>		CHECKED BY <b>HANEEF</b>	
DISCIPLINE <b>PLUMBING</b>			SHEET SIZE <b>A3</b>		SCALE <b>1:150</b>
FIRST EMISSION <b>26/02/2021</b>		DRAWING NUMBER <b>P-2.01</b>			REVISION <b>00</b>
UPDATE <b>07/03/2021</b>					



SYMBOL	DESCRIPTION
	Freshwater supply pipe
	Hot water supply pipe
	Shower head
	Water mixer tap
	Muslim shower
	Water tap
	Ball valve
	Non-return valve (check valve)
	Angle valve

SYMBOL	DESCRIPTION
	Valve chamber
	Water meter
	Pump
	13 L electric water heater
A to B	Above to below
B to A	Below to above

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TITLE
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## FIRST FLOOR FRESH WATER SUPPLY PLAN

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY	DE
----------	----

DESIGNED BY	HANEEF
-------------	--------

CHECKED BY	
HANEEF	

DISCIPLINE
PLUMBING

SHEET SIZE  
A3

E	SCALE
	1:150

FIRST EMISSION
26/02/2021

N	DRAWING NUMBER
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	REVISION
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UPDATE
07/03/2021

P-2.02

00







## 01 First floor fresh water supply plan

1:150







SYMBOL	DESCRIPTION
	Sewer line
	Vent line
	Floor trap
	Grease trap
	Cleaning eye
	Inspection chamber
A to B	Above to below
B to A	Below to above

Note:

- All rain water down pipes from the roof shall be connected to rain water harvesting tank

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FIRST FLOOR SANITARY PIPING  
PLAN

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY HANEEF		CHECKED BY HANEEF	
DISCIPLINE PLUMBING			SHEET SIZE A3		SCALE 1:150
FIRST EMISSION 26/02/2021		DRAWING NUMBER  P-2.04		REVISION  00	
UPDATE 07/03/2021					

## 01 First floor sanitary piping plan































Note:

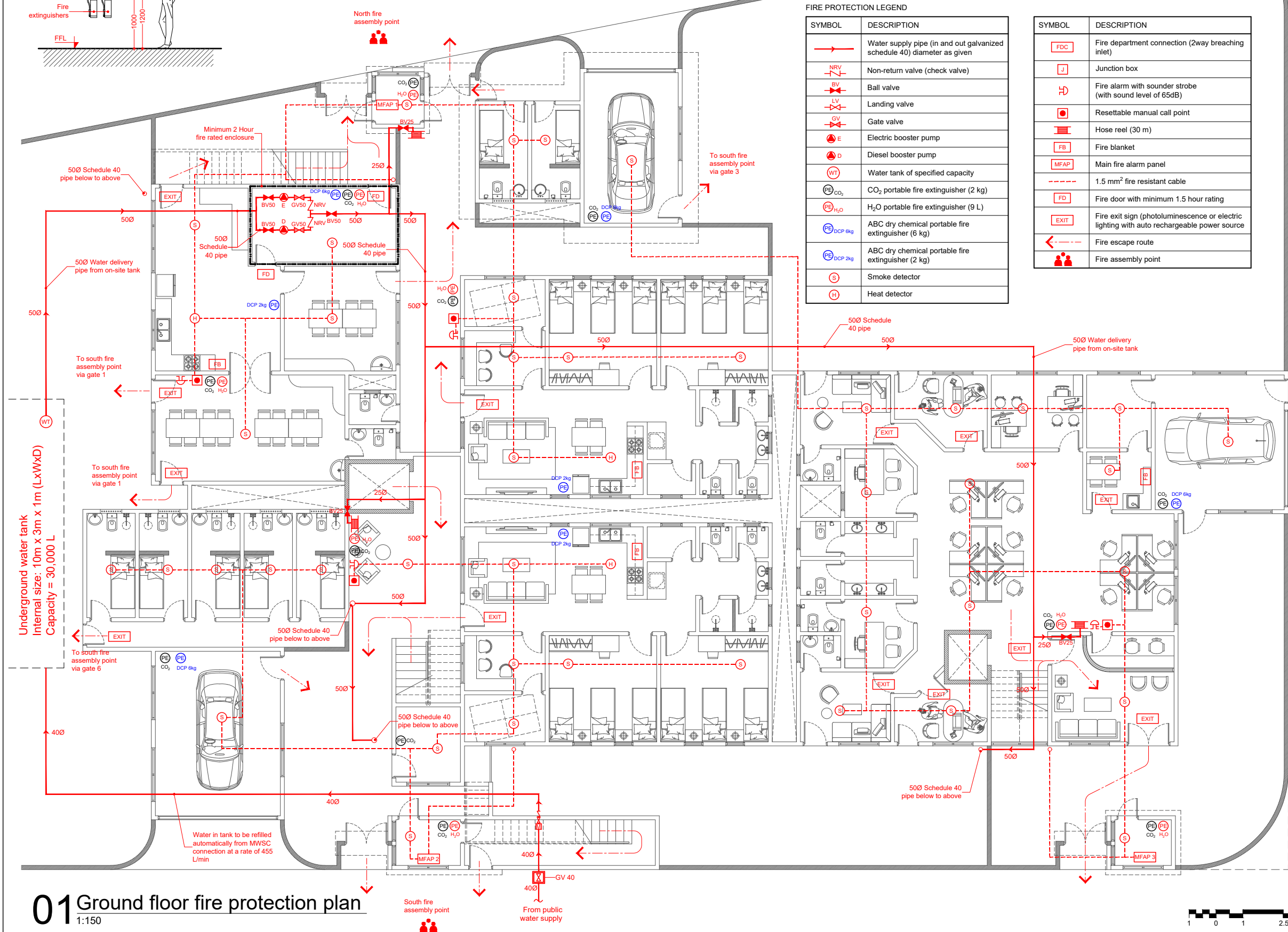
1. All piping works and fixtures shall be fire resistant
2. All wiring (including detection and alarming circuits) shall be fire resistant
3. All materials, fixtures, cabinets and equipment should be approved by MNDF prior to installation
4. Power to booster pump shall be exclusive with cable through a route of negligible fire risk
5. Pump systems shall be complete with in and out galvanized steel
6. Each pump should deliver a water jet of 6m length when furthest hose reel in each floor is under simultaneous operation



### FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	Water supply pipe (in and out galvanized schedule 40) diameter as given
	Non-return valve (check valve)
	Ball valve
	Landing valve
	Gate valve
	Electric booster pump
	Diesel booster pump
	Water tank of specified capacity
	CO <sub>2</sub> portable fire extinguisher (2 kg)
	H <sub>2</sub> O portable fire extinguisher (9 L)
	ABC dry chemical portable fire extinguisher (6 kg)
	ABC dry chemical portable fire extinguisher (2 kg)
	Smoke detector
	Heat detector

SYMBOL	DESCRIPTION
	Fire department connection (2way breaching inlet)
	Junction box
	Fire alarm with sounder strobe (with sound level of 65dB)
	Resettable manual call point
	Hose reel (30 m)
	Fire blanket
	Main fire alarm panel
	1.5 mm <sup>2</sup> fire resistant cable
	Fire door with minimum 1.5 hour rating
	Fire exit sign (photoluminescence or electric lighting with auto rechargeable power source)
	Fire escape route
	Fire assembly point



Underground water tank  
Internal size: 10m x 3m x 1m (LxWxD)  
Capacity = 30,000 L

Water in tank to be refilled automatically from MWSC connection at a rate of 455 L/min

## 01 Ground floor fire protection plan

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## KEY PLAN



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## GROUND FLOOR FIRE PROTECTION PLAN

DESIGN STAGE

- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY HANEEF		CHECKED BY HANEEF	
DISCIPLINE FIRE PROTECTION			SHEET SIZE A3		SCALE 1:150
FIRST EMISSION 26/02/2021		DRAWING NUMBER  F-2.01		REVISION	
UPDATE 07/03/2021				00	

