

Proposed Two Storey Juvenile Residential Center

Dh. Kudahuvadhoo



DesignExpress

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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	

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	

GENERAL NOTES:

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2. All dimensions are in millimeters and all levels are in meters unless noted otherwise
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PROJECT
PROPOSED TWO STOREY
JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO

TITLE

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 G-1.01		REVISION 00
UPDATE 07/03/2021					



01 Location plan

1.500



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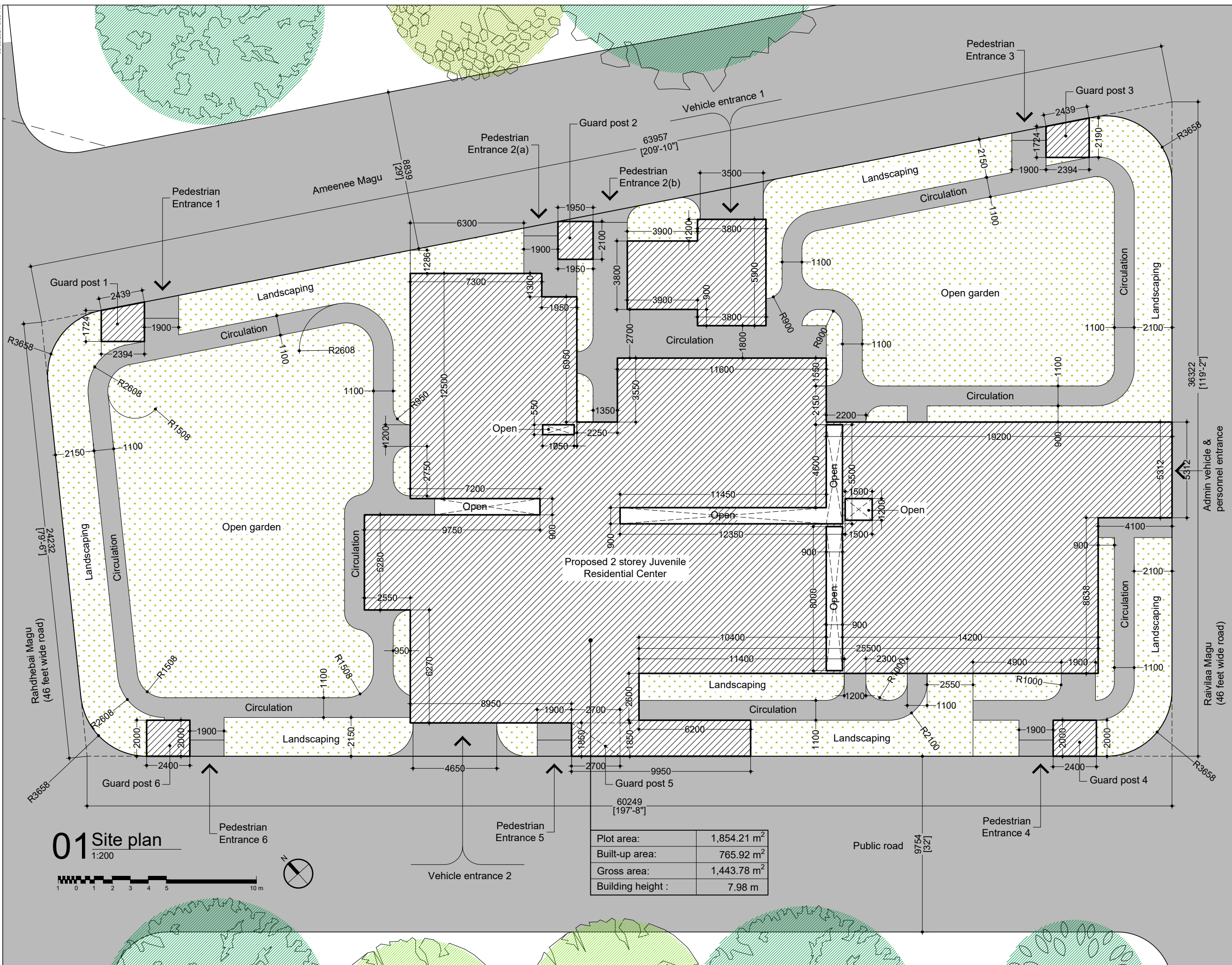
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LOCATION PLAN

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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SITE 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 A3		SCALE 1:200
FIRST EMISSION 26/02/2021		DRAWING NUMBER A-2.01		REVISION 00	
UPDATE 07/03/2021					



1. Guard post & Entrance 1 & 3 are similar in design
2. Guard post & Entrance 4 & 6 are similar in design
3. Total parking area = 18.13 m²

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TITLE

KEY PLAN - GROUND FLOOR

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-2.02		REVISION 00	
UPDATE 07/03/2021					



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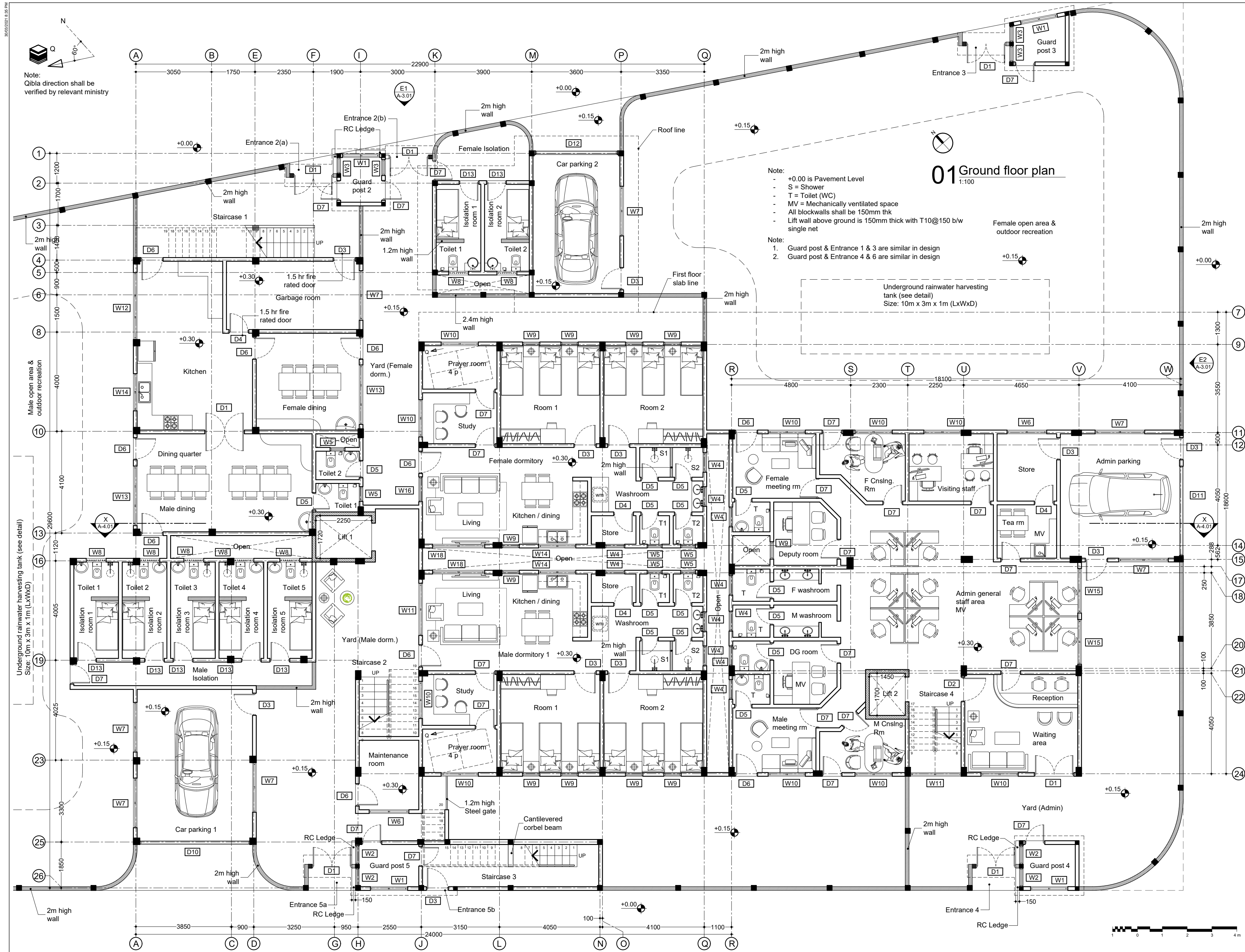
TITLE

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 A-2.03			REVISION 00
UPDATE 07/03/2021					



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REV	DESCRIPTION	DATE
00	INCEPTION	20/02/2021

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TITLE
GROUND FLOOR PLAN

DESIGN STAGE

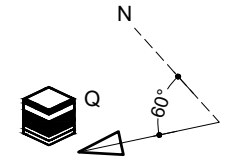
- ☐ CONCEPT DESIGN
- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE	DESIGNED BY ISHA	CHECKED BY LAYANA
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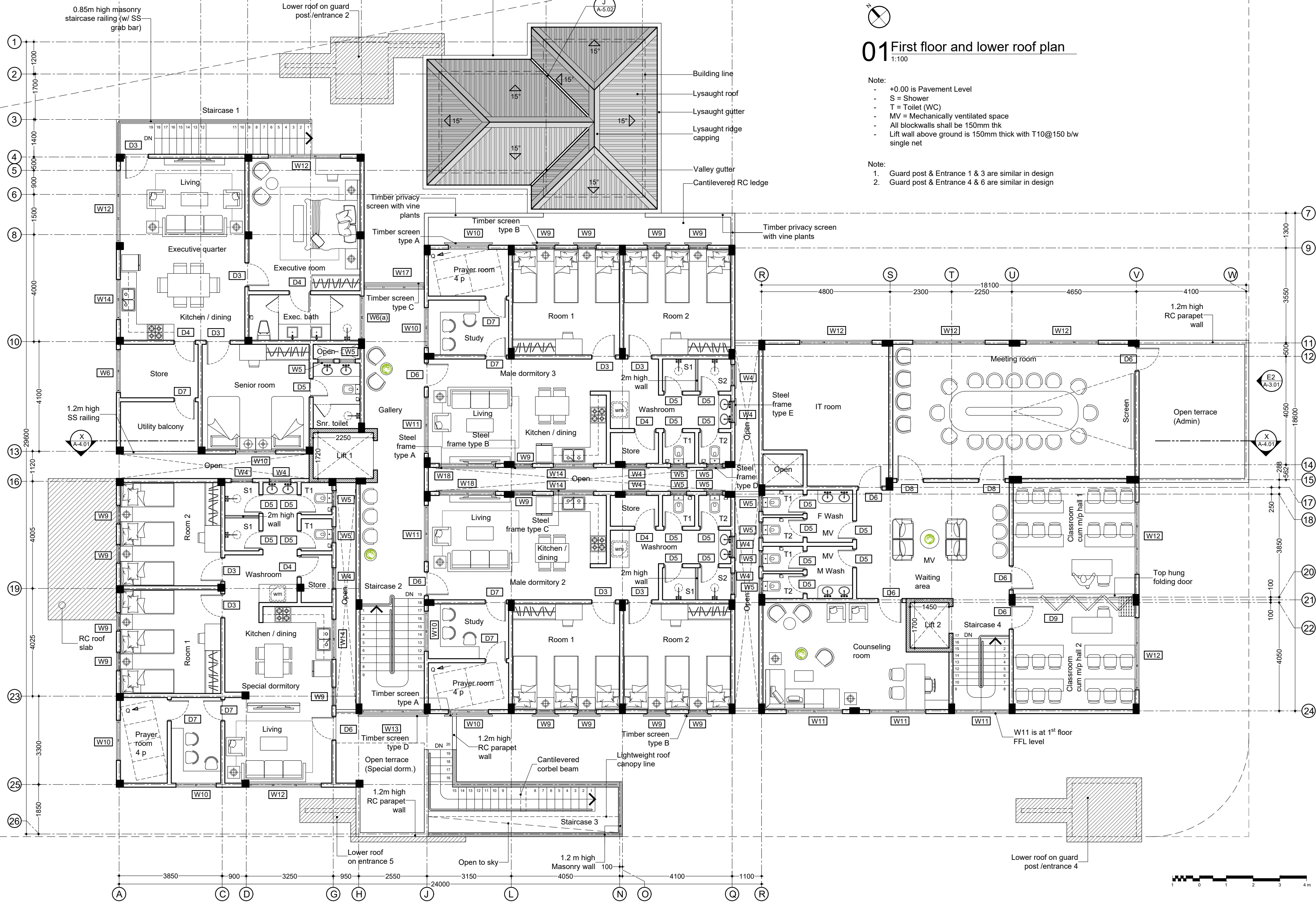
DISCIPLINE	SHEET SIZE	SCALE
ARCHITECTURAL	A2	1:100

FIRST EMISSION	DRAWING NUMBER	REVISION
26/02/2021		

201/02/2021		
UPDATE	A-2.04	00



Note:
Qibla direction shall be
verified by relevant ministry



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REV	DESCRIPTION	DATE
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TITLE
FIRST FLOOR AND LOWER 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-2.05	REVISION 00
UPDATE		

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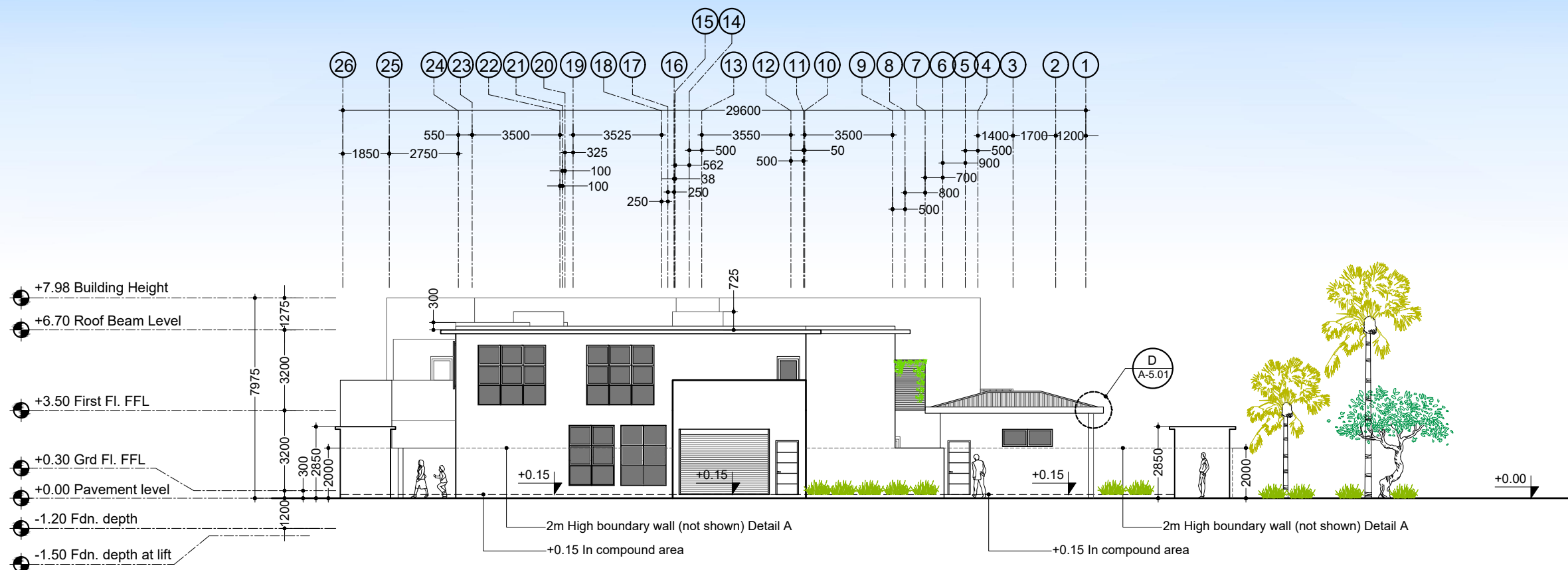
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UPPER ROOF PLAN

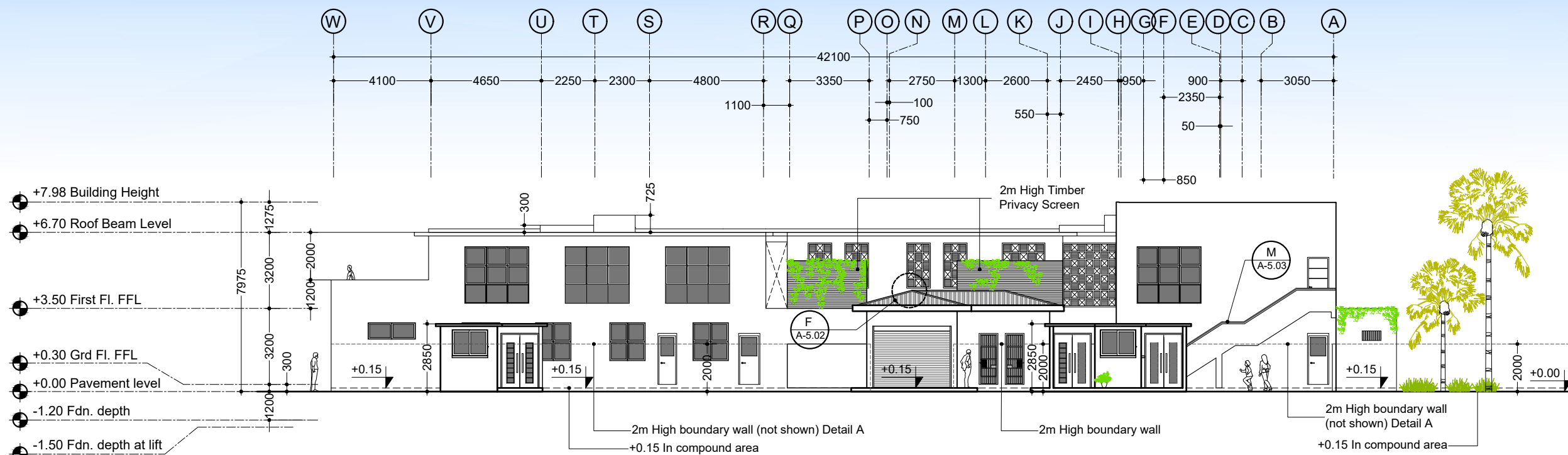
DESIGN STAGE

- ☐ 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		REVISION
UPDATE -			A-2.06		00



02 Elevation E1



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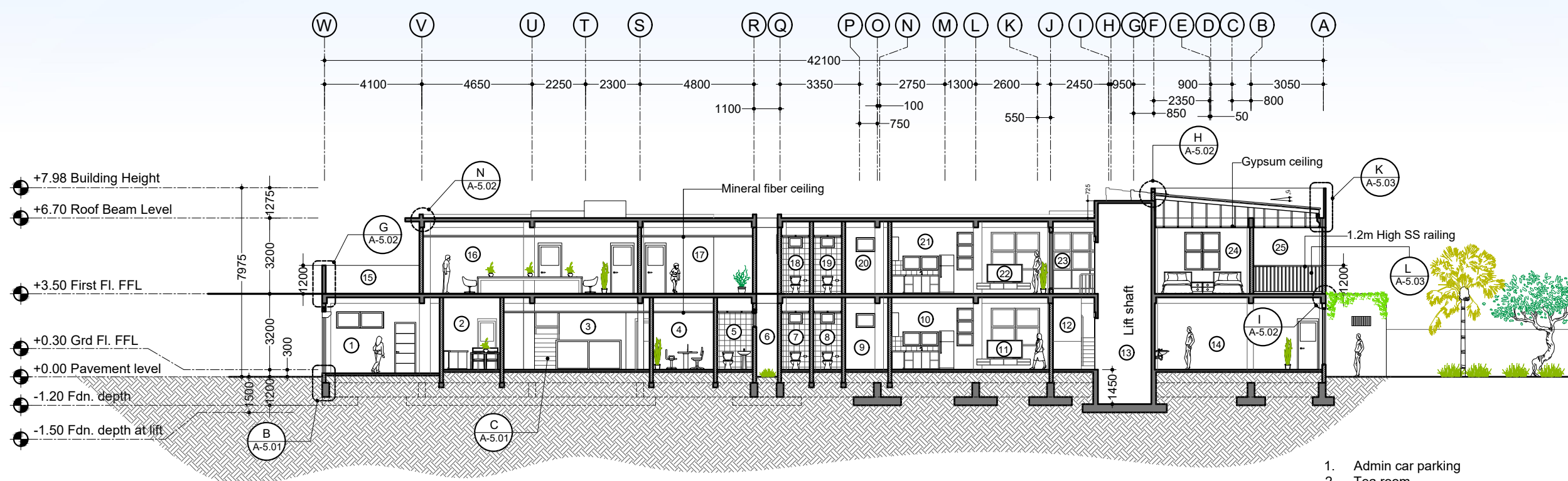
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ELEVATION E1
ELEVATION E2

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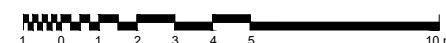
- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

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



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

01 Section X-X



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	TITLE
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SECTION X-X

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-4.01		REVISION 00	
UPDATE 07/03/2021					

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DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:20
FIRST EMISSION 26/02/2021		DRAWING NUMBER A-5.01			REVISION 00
UPDATE 07/03/2021					

100

1200

100mm thk RC parapet wall

T10 @ 200 C/C (B/W)
vertical bars anchored 500 mm
into slab (anchored into beam
where beam directly below)

FFL

Beam

Beam

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

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

50 mm minimum but 100 mm recommended

80 mm minimum roof overhangs

Corrugated lysaught roofing

80 mm minimum roof overhangs

50 x 35 timber purlins

50 x 150 timber rafters

Continuous solid support for valley gutter

Valley rafter

80 mm minimum roof overhangs

Roofing underlay with 20mm maximum overhang

50x35 timber purlins

Extend up beyond purlin

50 mm minimum valley gutter depth

20 mm minimum upstand to valley gutter

Metal valley gutter folded over purlins both sides (laid over continuous roofing underlay if copper-based treatment is used)

100 mm thk solid block wall

Metal mesh

Sonolastic 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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	TITLE
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ARCHITECTURAL DETAILS 2

DESIGN STAGE

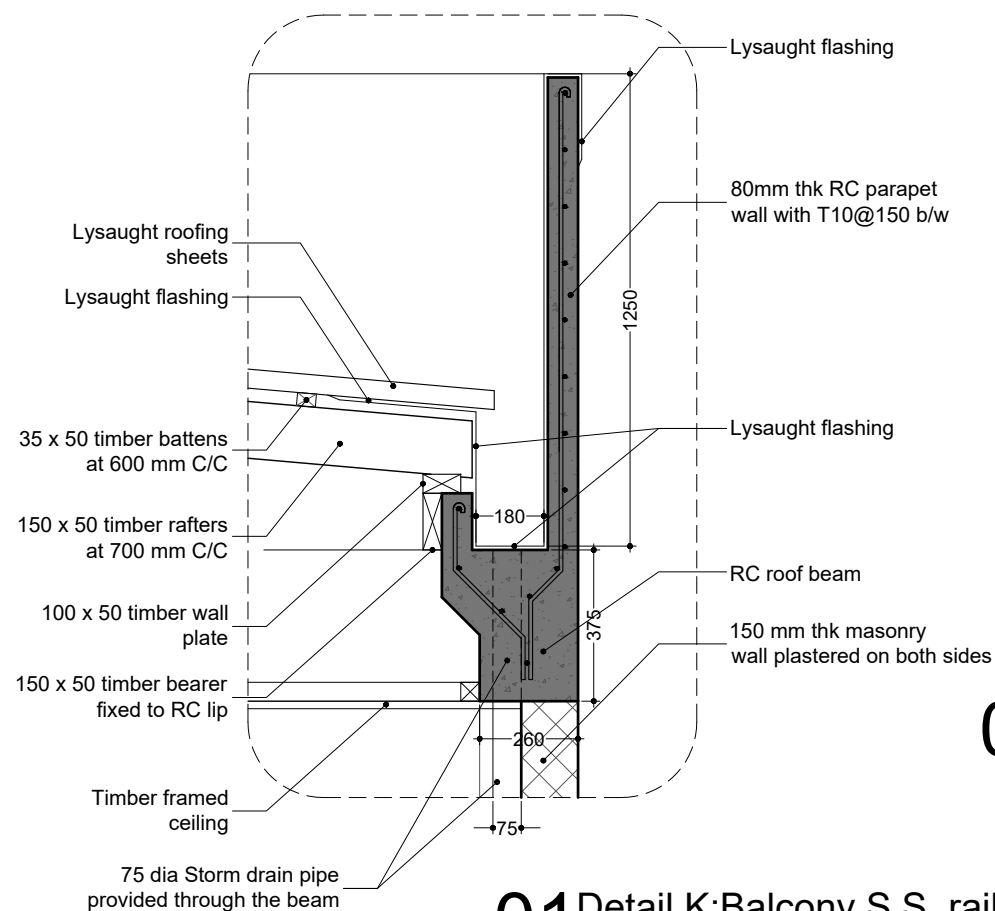
- ☐ CONCEPT DESIGN
- ☐ DESIGN DEVELOPMENT
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

	CHECKED BY LAYANA
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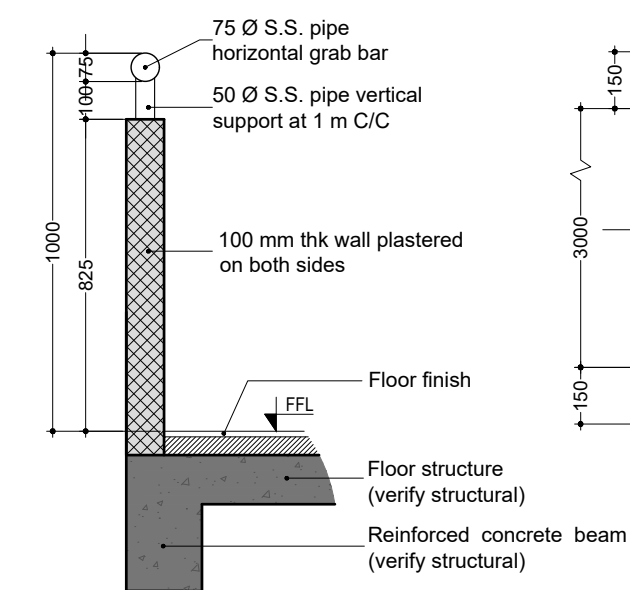
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	REVISION
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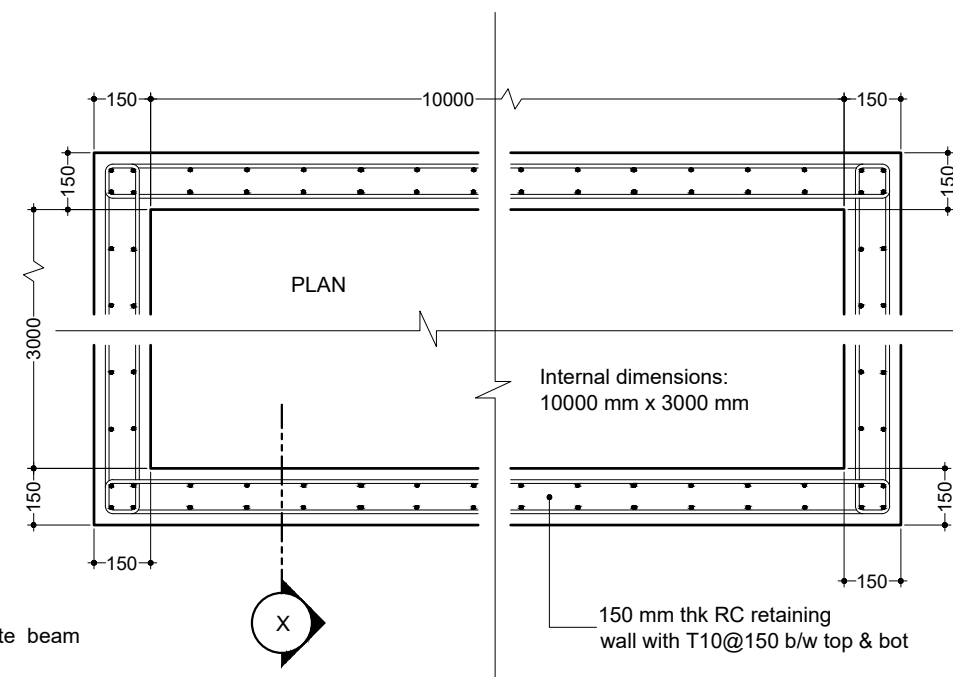
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01 Detail K: Balcony S.S. railing details



03 Detail M: Blockwall parapet

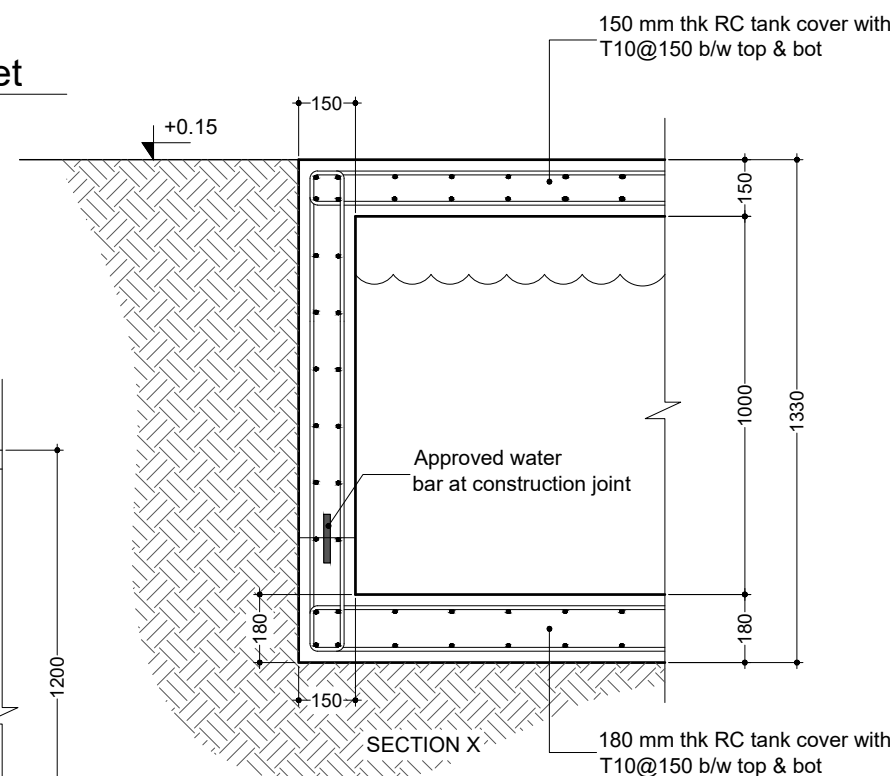


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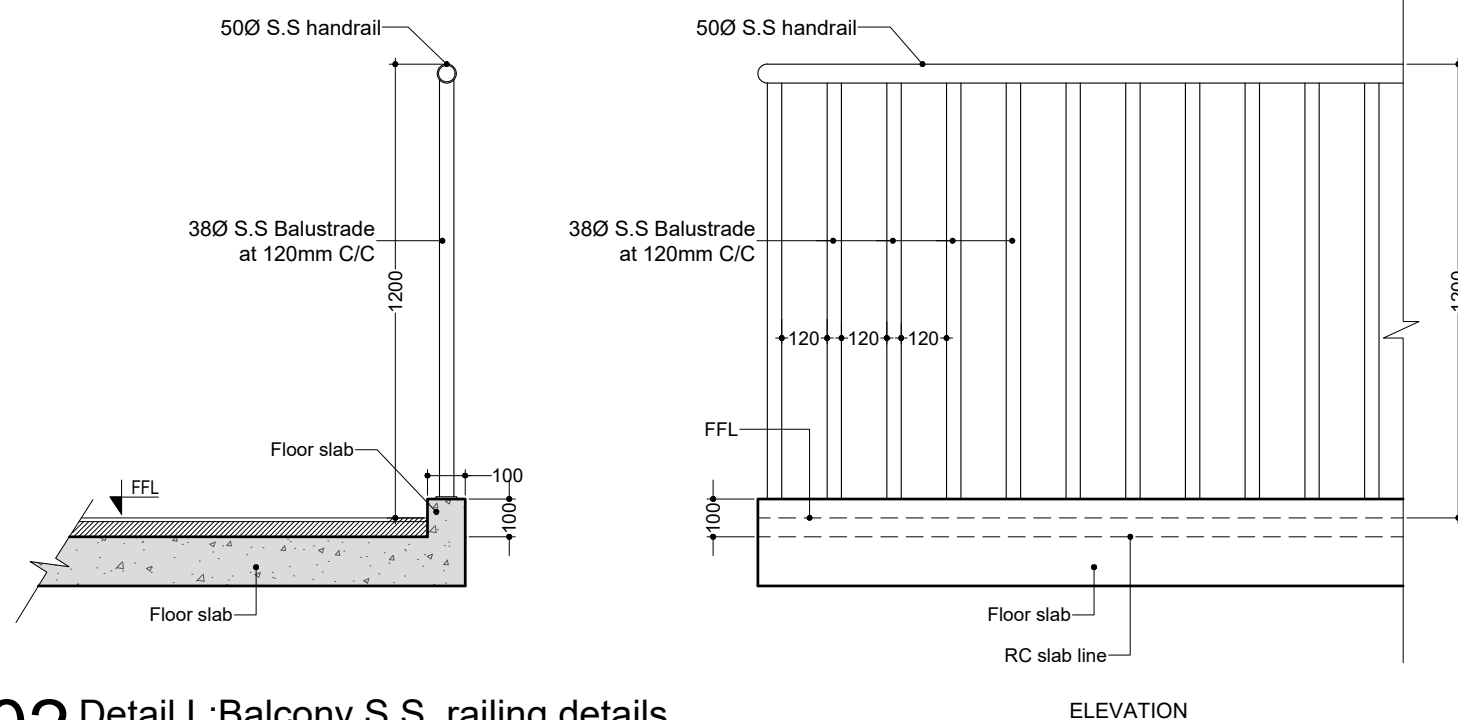
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KEY PLAN



04 Detail O: Water collection tank



02 Detail L: Balcony S.S. railing details

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TITLE	ARCHITECTURAL DETAILS 3

DESIGN STAGE

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

DRAWN BY DE	DESIGNED BY ISHA	CHECKED BY LAYANA
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DISCIPLINE	SHEET SIZE	SCALE
ARCHITECTURAL	A3	1:20

FIRST EMISSION	DRAWING NUMBER	REVISION
26/02/2021		

UPDATE	A-5.03	00
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

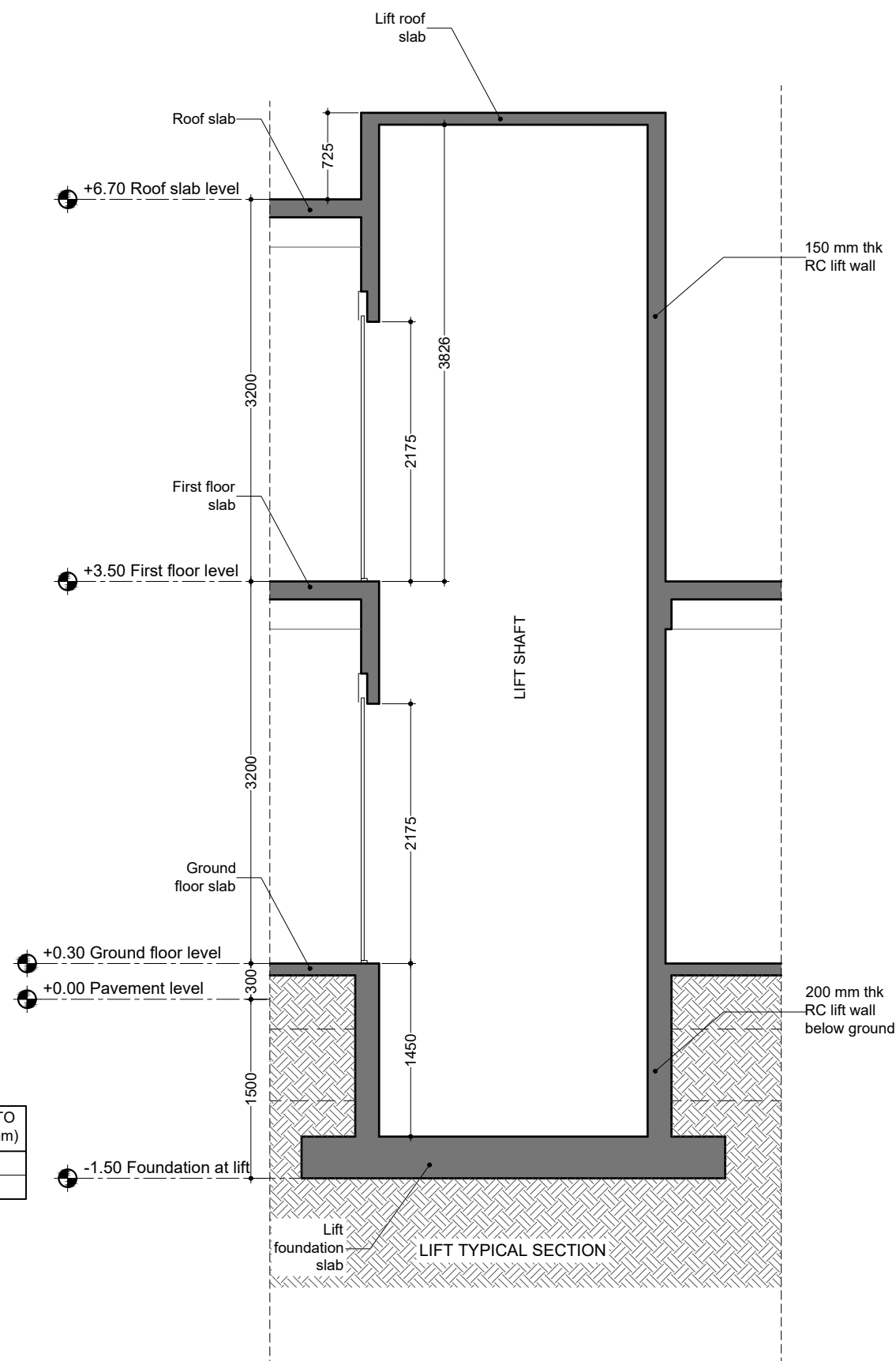
LIFT	NUMBER OF PERSONS	RATED CAPACITY (kg)	ENTRANCE WIDTH (mm)	CAR INTERNAL DIMENSIONS (mm)	COUNTERWEIGHT POSITION	PROVIDED HOISTWAY DIMENSIONS (mm)
LIFT 1	14	1050	900	1600 x 1400	REAR	2250 x 1720
LIFT 2	6	450	800	950 x 1300	SIDE	1700 x 1450

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 lift pit. The drawing shows a top-down view of the pit with dimensions and labels. The overall width and height are 1700 units. The inner square area is 1450 units wide and 1350 units high. The pit is divided into four quadrants by a central cross. The label 'Lift 2' is centered in the middle. Dimensions include 150, 300, 150, 1000, 700, 150, 50, and 1750.

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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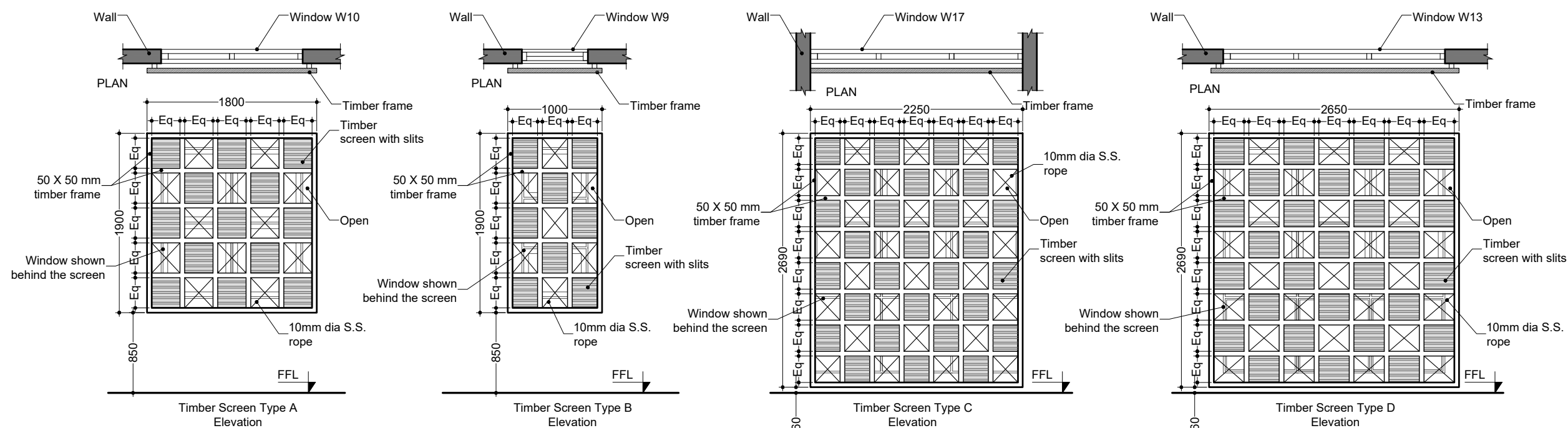
ARCHITECTURAL DETAILS 4

DESIGN STAGE

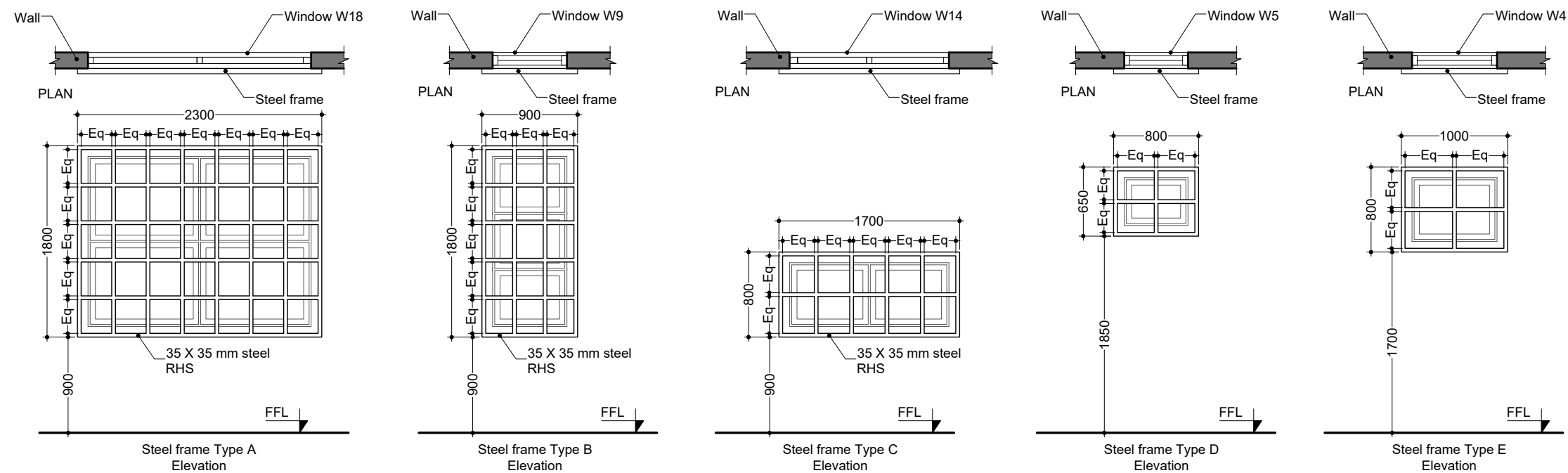
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DRAWN BY DE		DESIGNED BY ISHA		CHECKED BY LAYANA	
DISCIPLINE ARCHITECTURAL			SHEET SIZE A3		SCALE 1:50
FIRST EMISSION 26/02/2021		DRAWING NUMBER A-5.03			REVISION 00
UPDATE 07/03/2021					





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



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TITLE	ARCHITECTURAL DETAILS 5
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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 1:50
FIRST EMISSION 26/02/2021		DRAWING NUMBER A-5.04			REVISION 00
UPDATE 07/03/2021					

[illegible]

#	SPACE DESCRIPTION	AREA m ²	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	

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PROJECT
PROPOSED TWO STOREY
JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO

DESIGN STAGE

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


FIRST EMISSION 26/02/2021	DRAWING NUMBER A-6.02	REVISION 00
UPDATE 07/03/2021		

#	SPACE DESCRIPTION	AREA m ²	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	

GENERAL NOTES:
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2. All dimensions are in millimeters and all levels are in meters unless noted otherwise
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

REV	DESCRIPTION	DATE
00	INCEPTION	20/02/2021

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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		

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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					

SYMBOL	D7			D8			D9			D10		
	OPENABLE AREA			OPENABLE AREA			OPENABLE AREA			OPENABLE AREA		
	1.44 m ²			1.85 m ²			9.79 m ²			10.44 m ²		
PLAN												
ELEVATION												
LOCATION	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL	F00	F01	TOTAL
QUANTITY	25	07	32	00	02	02	00	01	01	01	00	01
OPERATION	Single swing			Single swing			Top hung folding door			Roller shutter door		
TYPE	Solid core			Solid core			Solid core			Hollow core		
MATERIAL	Timber			Timber			Timber			Aluminum		
FINISH	Wood satin			Wood satin			Wood satin			White power coated		
NOTES	-			-			-			-		

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PROPOSED TWO STOREY
JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO

TITLE

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 A-6.05		REVISION 00	
UPDATE 07/03/2021					

01 Door window schedule 2



GENERAL NOTES:

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PROPOSED TWO STOREY
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DH. KUDAHUVADHOO

TITLE

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 ²			0.34 m ²			0.29 m ²			0.43 m ²			0.23 m ²			0.86 m ²		
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:

1. Do not scale drawings. Dimensions govern
2. All dimensions are in millimeters and all levels are in meters unless noted otherwise
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JUVENILE RESIDENTIAL CENTER

DH. KUDAHUVADHOO



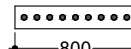

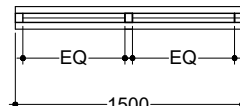
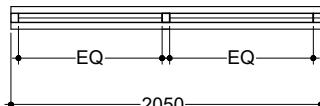
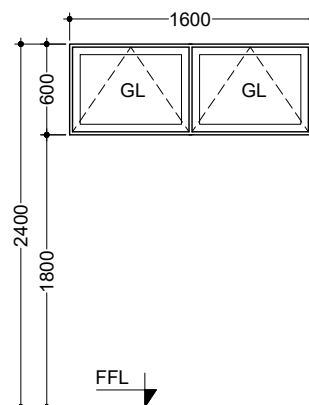
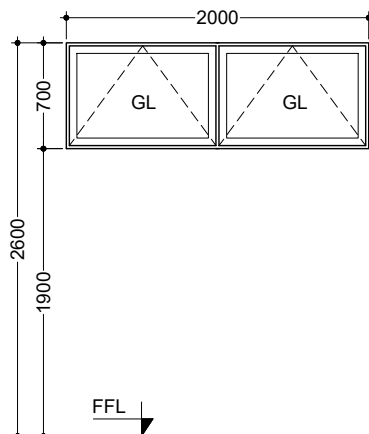
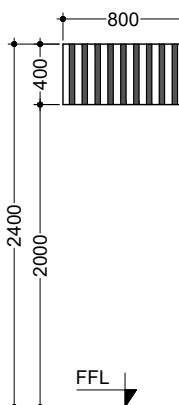
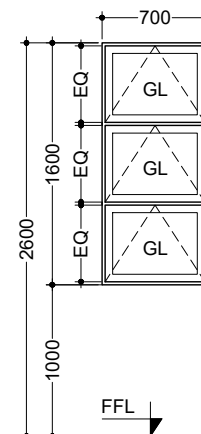
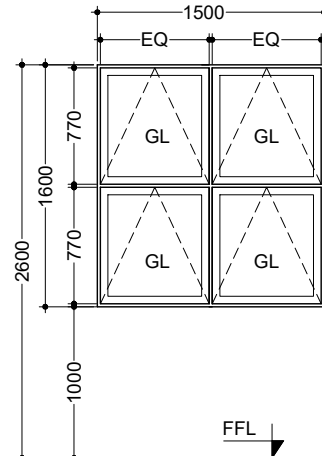
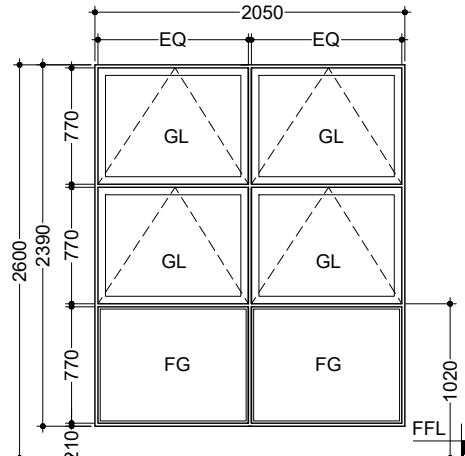
TITLE

DOOR WINDOW SCHEDULE 4

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					
	0.86 m ²			1.28 m ²			0.32 m ²			1.00 m ²			2.22 m ²			3.14 m ²		
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



GENERAL NOTES:

1. Do not scale drawings. Dimensions govern
2. All dimensions are in millimeters and all levels are in meters unless noted otherwise
3. All dimensions shall be verified on site before proceeding with work
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KEY PLAN



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MINISTRY OF HOME AFFAIRS

PROJECT

PROPOSED TWO STOREY
JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO

	TITLE
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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/m²
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 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/mm², 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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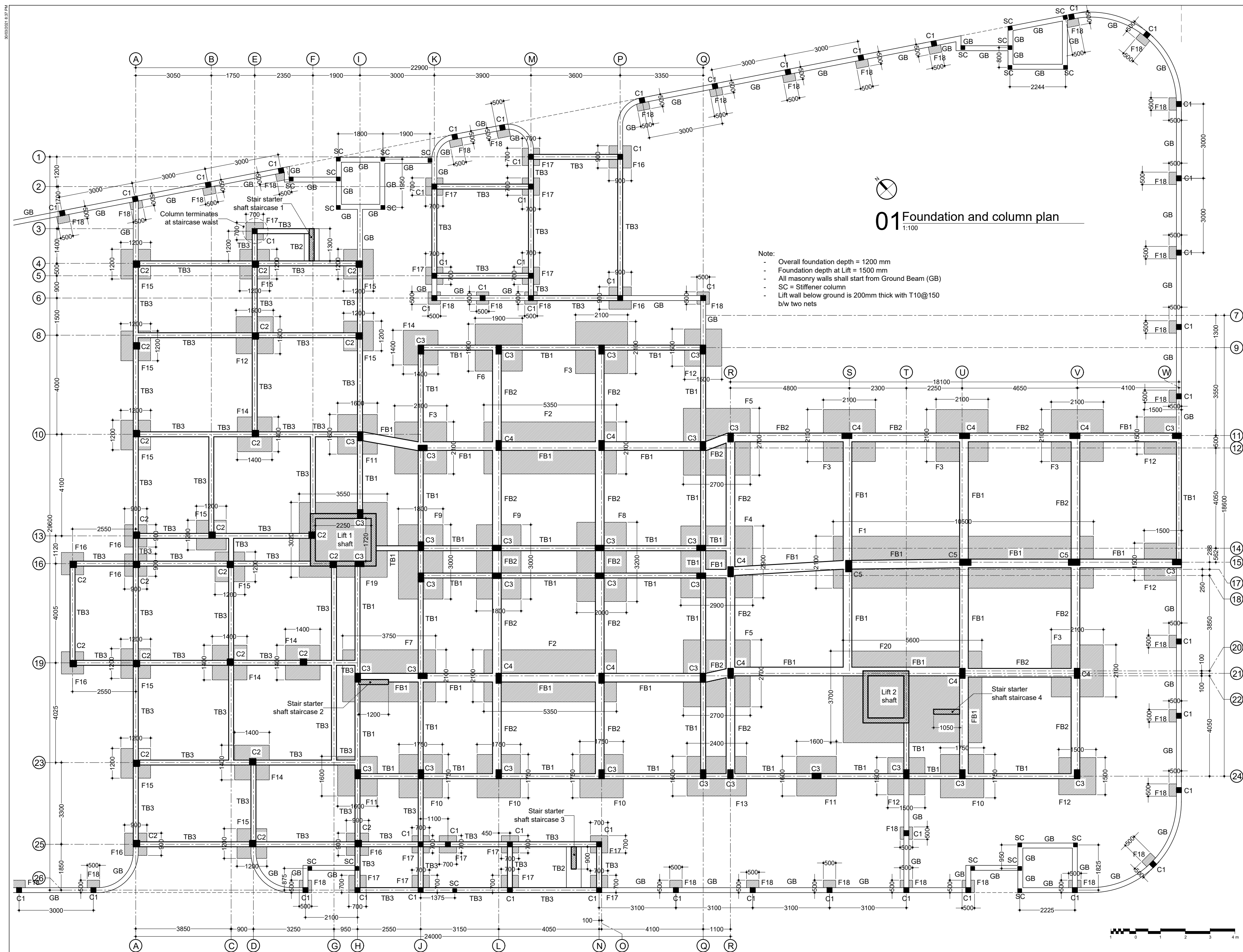
DH. KUDAHUVADHOO

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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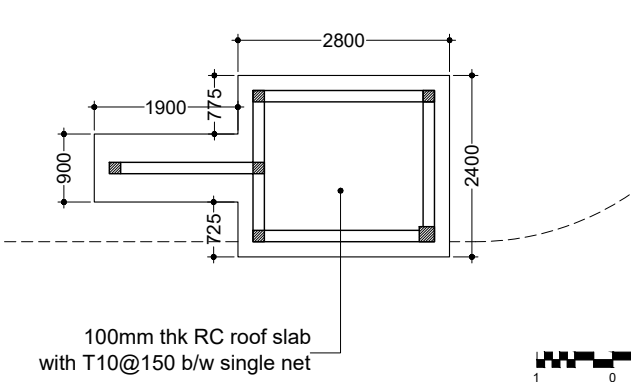
PROJECT
PROPOSED TWO STOREY
JUVENILE RESIDENTIAL CENTER
DH, KUDAHUVADHOQ

TITLE
FOUNDATION PLAN

DESIGN STAGE

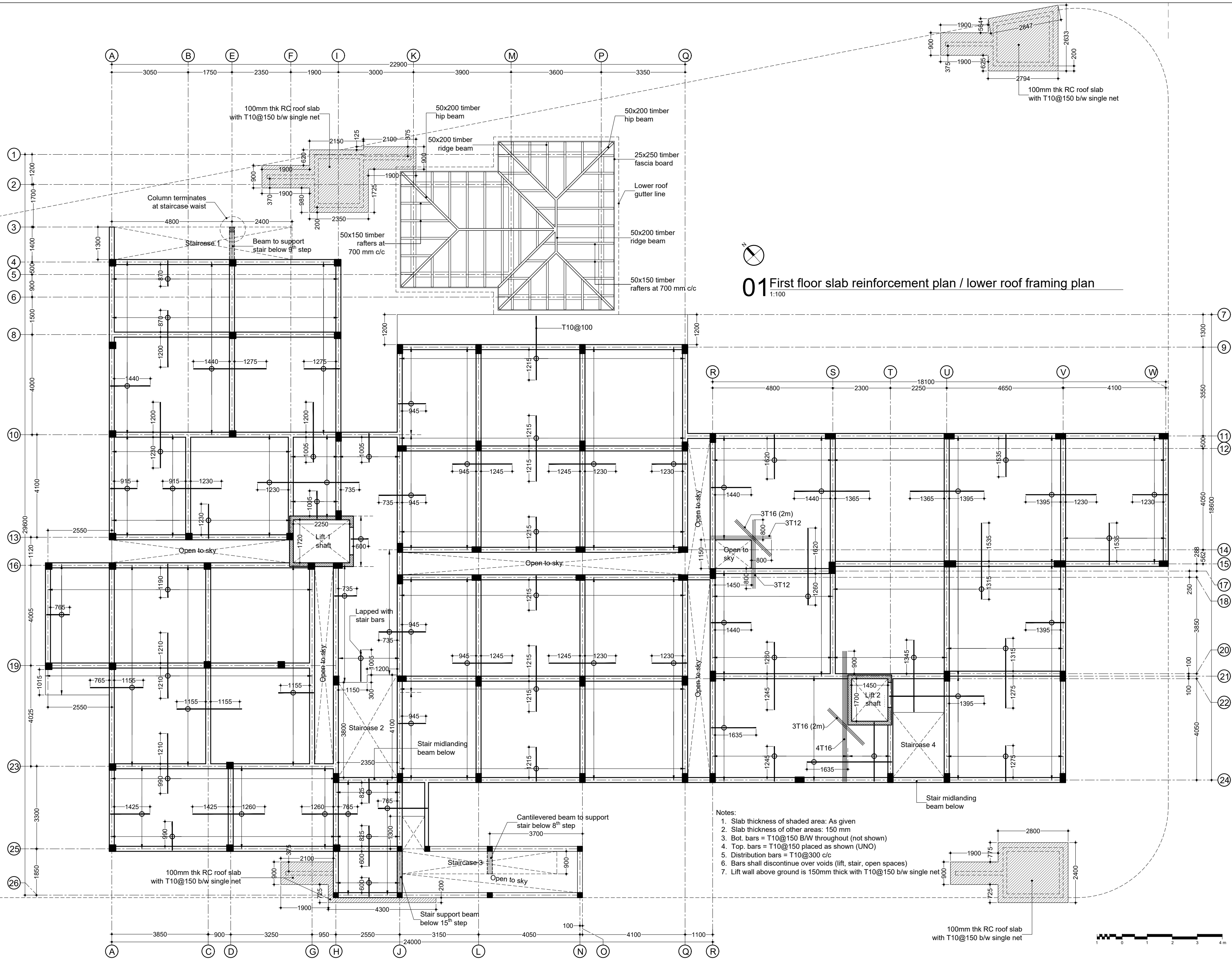
- ☐ CONCEPT DESIGN
- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT DRAWINGS

DRAWN BY DE		DESIGNED BY RAMEEZ		CHECKED BY HANEEF	
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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DISCIPLINE STRUCTURAL		SHEET SIZE A2	SCALE 1:100
FIRST EMISSION 26/02/2021		DRAWING NUMBER S-2.02	REVISION
UPDATE			00
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DISCIPLINE STRUCTURAL		SHEET SIZE A2	SCALE 1:100
FIRST EMISSION 26/02/2021		DRAWING NUMBER S-2.02	REVISION
UPDATE			00
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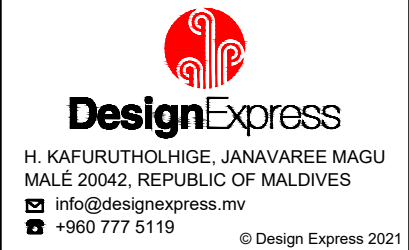
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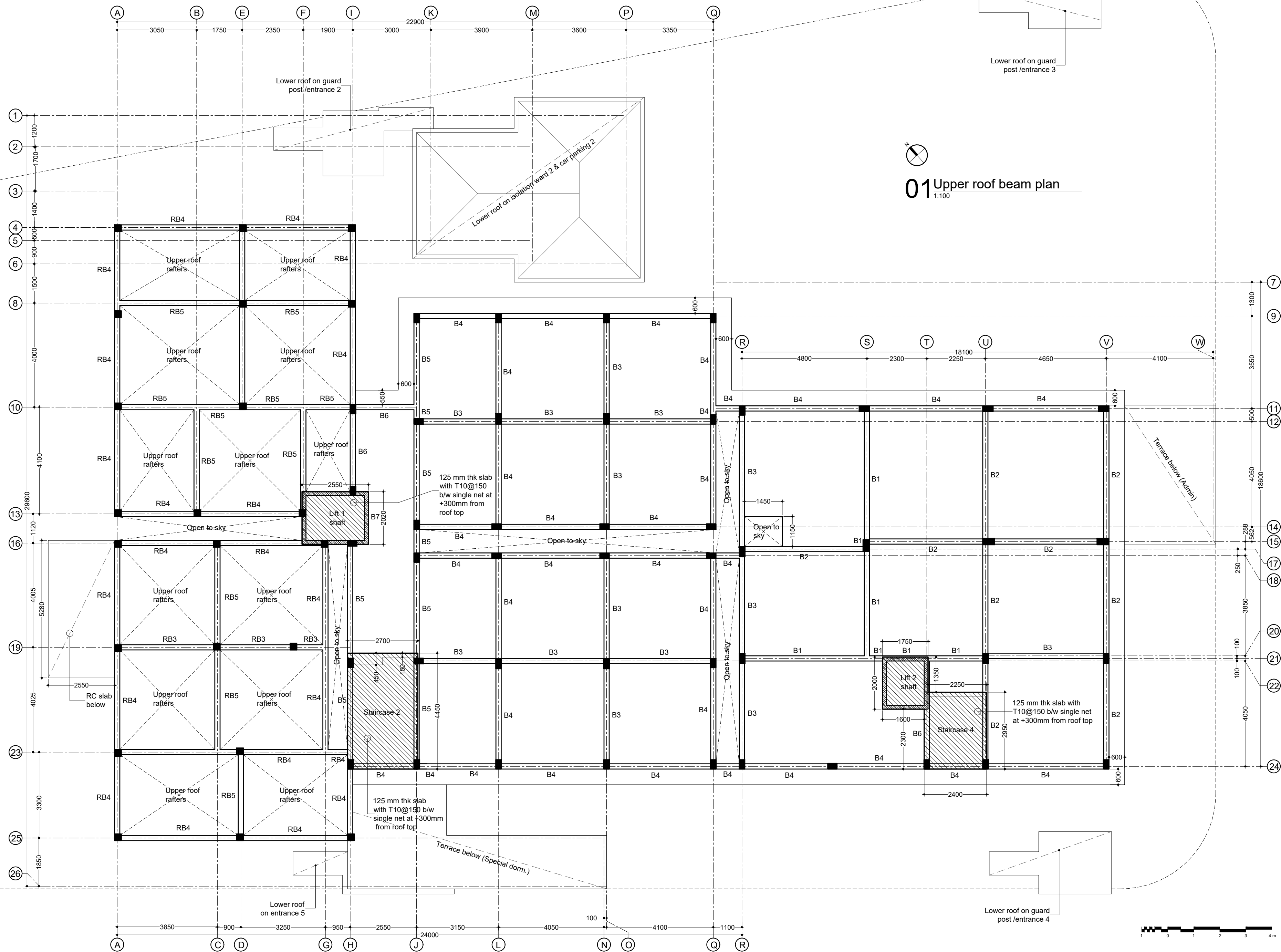
PROJECT
PROPOSED TWO STOREY
JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO

TITLE
FIRST FLOOR SLAB REINFORCEMENT PLAN / LOWER ROOF FRAMING PLAN

DESIGN STAGE

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

DRAWN BY DE		DESIGNED BY RAMEEZ		CHECKED BY HANEEF	
DISCIPLINE STRUCTURAL			SHEET SIZE A2		SCALE 1:100
FIRST EMISSION 26/02/2021		DRAWING NUMBER		REVISION	
UPDATE		S-2.03		00	
-					



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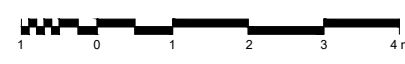
PROJECT
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JUVENILE RESIDENTIAL CENTER
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TITLE
UPPER ROOF BEAM PLAN

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-2.04		00	



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DISCIPLINE STRUCTURAL		SHEET SIZE A2	SCALE 1:100
FIRST EMISSION 26/02/2021		DRAWING NUMBER S-2.05	REVISION
UPDATE			00
-			

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

Figure 10 shows the reinforcement details for three slabs: TB2, TB3, and GB. Slab TB2 is 600 mm wide and 250 mm deep, with 4T12 bars at the top and bottom, and T10@150 spacing. Slab TB3 is 220 mm wide and 350 mm deep, with 4T12 bars at the top and bottom, and R6@150 spacing. Slab GB is 200 mm wide and 200 mm deep, with 2T12 bars at the top and bottom, and R6@150 spacing.

Knee bar
T10@100 C/C

T10@100 (main bars)
T10@200

150

Bars shall be fully anchored into floor slab/midlanding beam

+0.30

Ground FFL

T10@100 (main bars)

200

T10@200

Stair starter shaft combines W/ footing

Tie beam TB2

250

600

04 Structural timber details

Technical drawings of timber components with dimensions in mm:

- Timber beam:** 250 mm height, 100 mm width.
- Hip/ridge beam:** 200 mm height, 50 mm width.
- Rafters:** 150 mm height, 50 mm width.
- Battens:** 35 mm height, 50 mm width.

Timber grade C30

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STRUCTURAL DETAILS 2

DESIGN STAGE

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

DRAWN BY	DE
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DESIGNED BY	
RAMEEZ	

CHECKED BY	
HANEEF	

DISCIPLINE	
STRUCTURAL	

	SHEET SIZE
	A3

SCALE
1:20

FIRST EMISSION
26/02/2021

DRAWING NUMBER	
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REVISION	
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UPDATE
07/03/2021

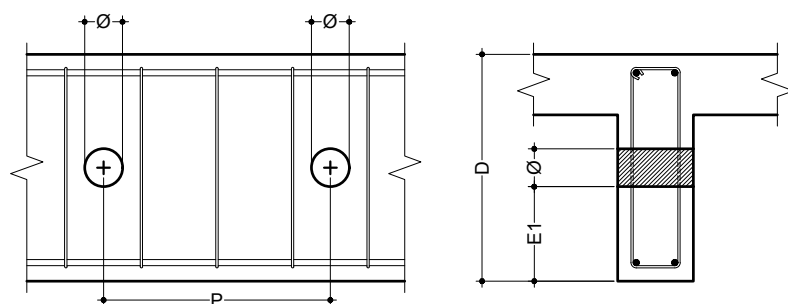
S-5.02

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01 Floor slab opening details

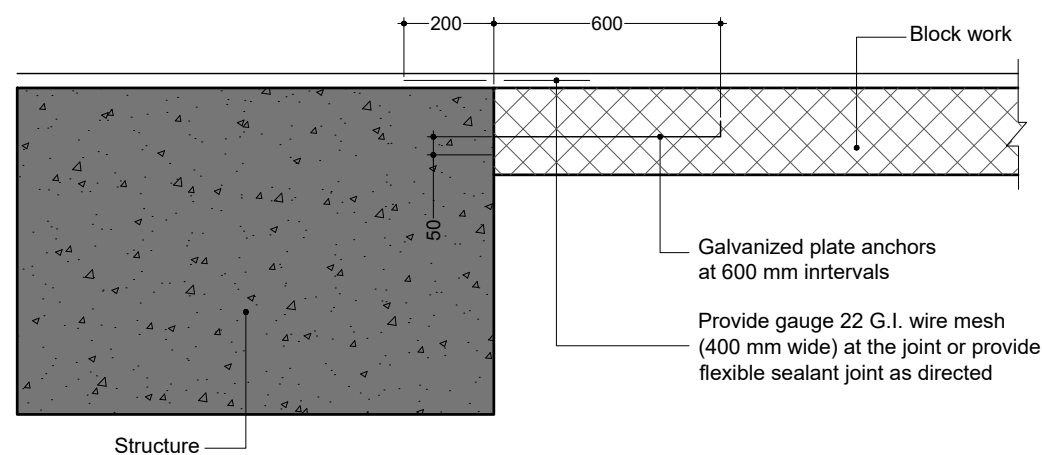
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1. In case of pipe $\varnothing < 100$ mm; Applicable for $D \geq 400$ mm $P \geq 4\varnothing$, $E1 \geq D/3$ pipe below flange



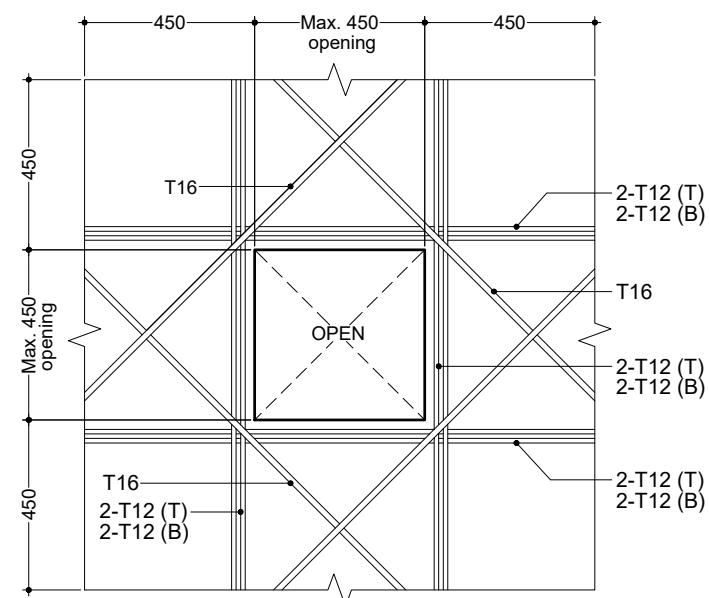
02 Beam opening details

1:20



03 Blockwork anchor detail

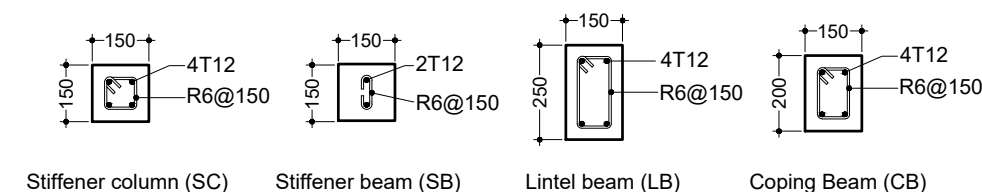
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06 Wall stiffener members

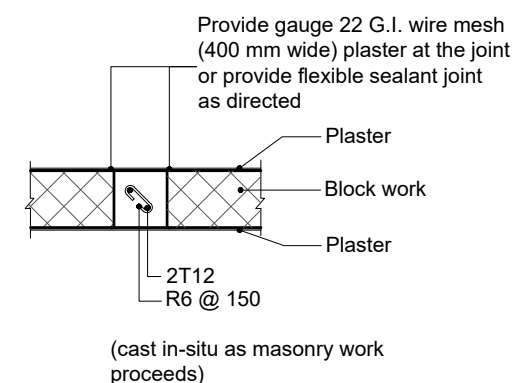
1.20

- Note:
1. Stiffener beams/columns shall be required to wall areas greater than 2 m² which are unsupported laterally by concrete walls or columns
 2. Approved flexible sealant shall be provided at the interface of concrete and block work masonry as shown
 3. Block work rates should include for all construction of RC stiffener column/beams flexible joints, anchors etc
 4. Block work for exterior shall be used galvanne "X" mesh



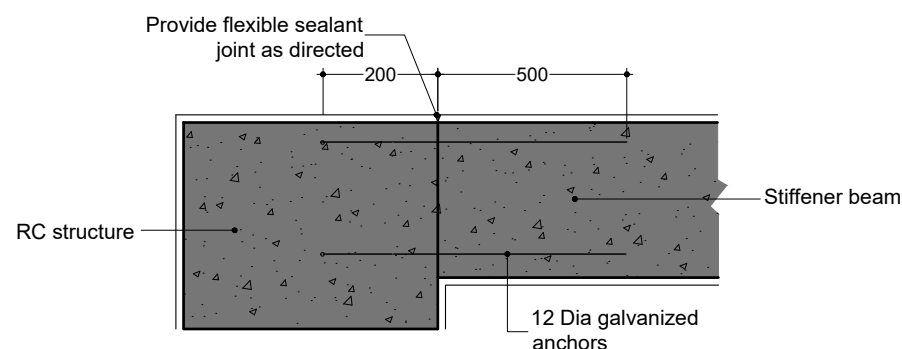
05 Stiffener to wall detail

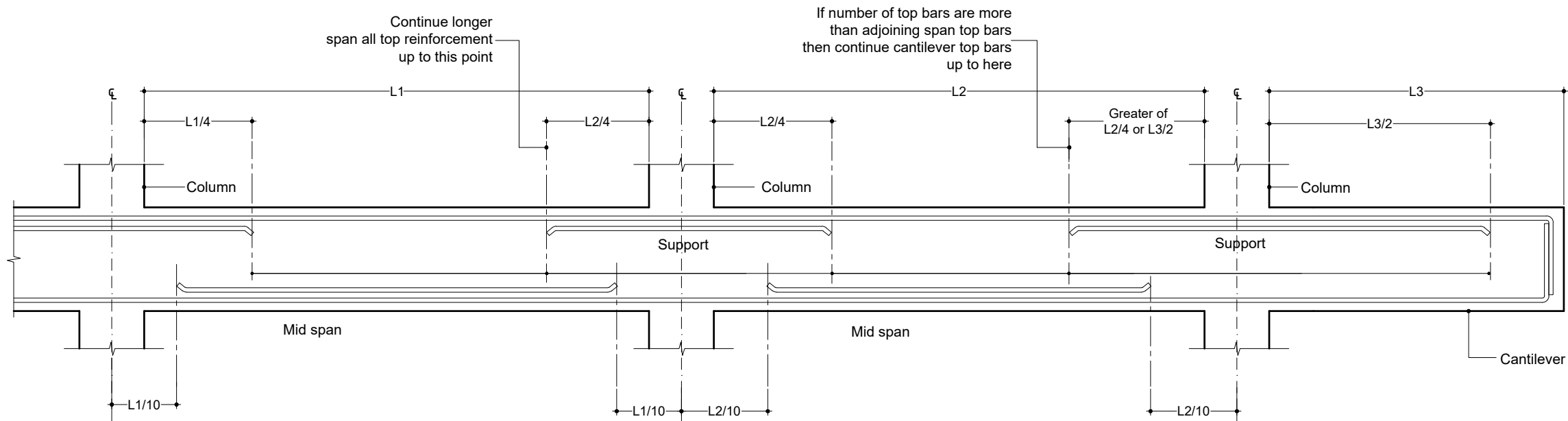
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04 Stiffener beam to RC frame detail

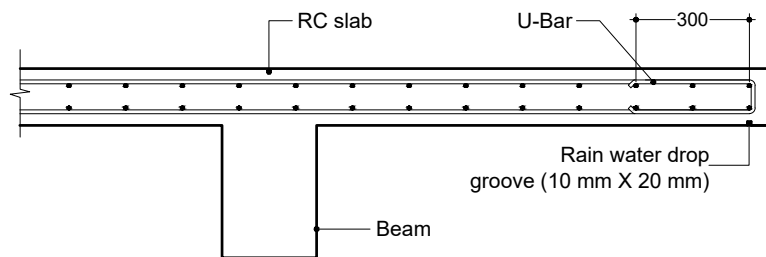
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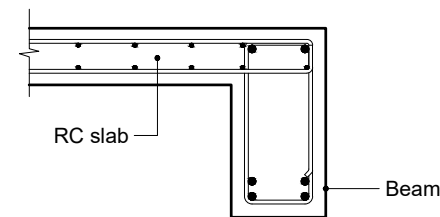
01 Simplified detailing rules for beams (BS 8110)
1:20

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

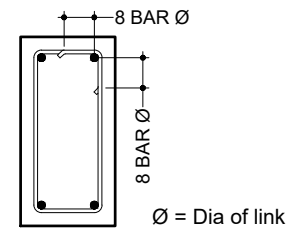


02 Cantilevered slab edge detail
1:20

- Note:
1. Standard details given here also apply 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



03 Slab to beam anchor detail
1:20




04 Shear links anchor detail
1:20



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REV	DESCRIPTION	DATE
00	INCEPTION	20/02/2021

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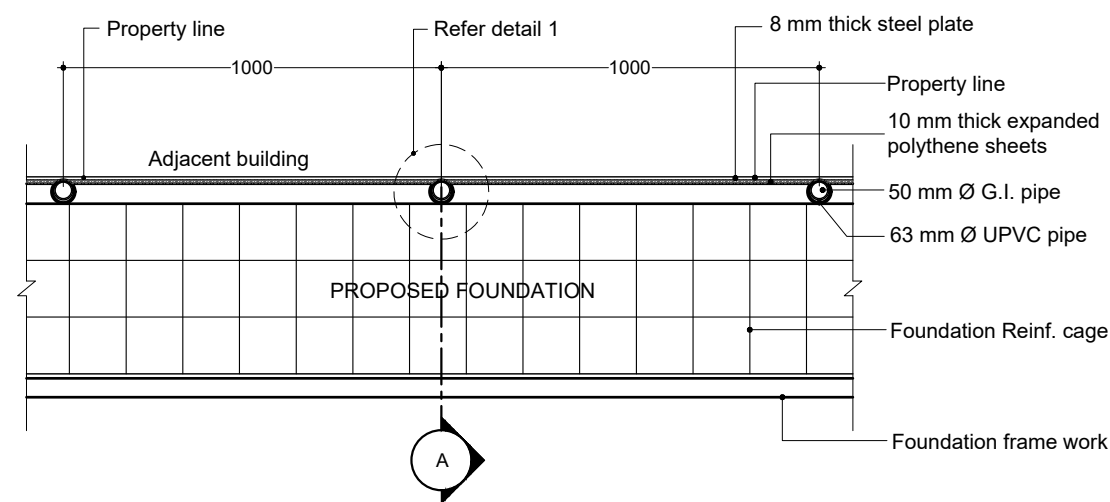
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PROJECT
PROPOSED TWO STOREY JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO

TITLE
STANDARD DETAILING RULES TO BS 8110

- 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 1:20
FIRST EMISSION 26/02/2021	DRAWING NUMBER S-5.04	REVISION 00
UPDATE 07/03/2021		



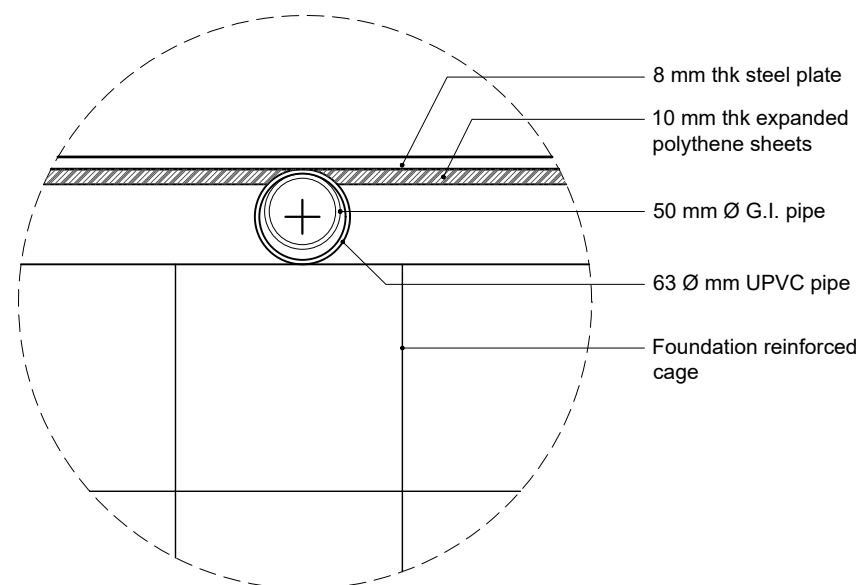
02 Shoring detail plan view

Method of protecting adjacent structures during excavation for foundation:

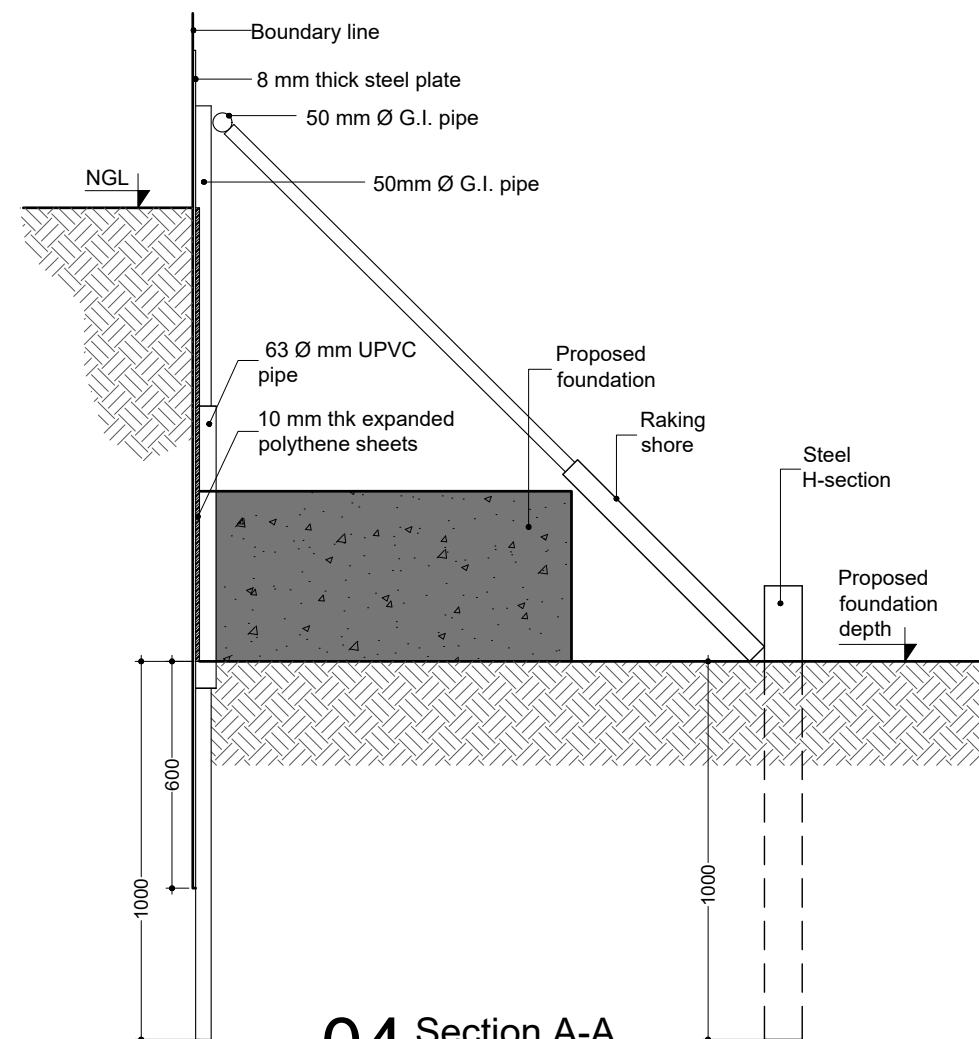
1. Before the level of excavation reaches the bottom of the adjacent foundation, place the steel plate against the adjacent property' and drive the upright G.I. pipes (with the UPVC sleeves) into the ground.
2. Drive the steel plates 400 to 500 mm into the ground
3. Excavate another 300 mm deeper.
4. Drive the steel plate another 300 mm deeper.
5. Follow this procedure until the required depth (as shown in the diagram) is reached.
6. Prop the G.I. pipes using waling and raking shores as shown in the diagram.
7. Pour the foundation.
8. After 3 days remove the upright G.I. pipes and place the waling against the steel sheet, using raking shores as before.
9. Grout the space inside UPVC pipes.
10. While backfilling, remove steel sheets and raking shores.

Note:

Excavation & shore protection must proceed in portions, decided based on site conditions for maximum safety & protection.



03 Detail 1

04 Section A-A
1:20

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







TITLE	FOUNDATION PROTECTION METHOD
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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
UPDATE 07/03/2021	S-5.05		00



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

LIGHTING, FAN & SWITCH LEGEND

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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PROPOSED TWO STOREY
JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO

GROUND FLOOR LIGHTING PLAN

DESIGN STAGE

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

DRAWN BY

DE

DESIGNED BY	
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HANEEF

CHECKED BY	
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HANEEF

DISCIPLINE	
ELECTRICAL	

FIRST EMISSION

26/02/2021

UPDATE

UPDATE
07/03/2021

	SHEET SIZE	S
	A3	

DRAWING NUMBER	
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E-2 01

L-2.01

SCALE
:150

REVISION

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00








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01 Ground floor lighting plan



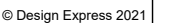


01 First floor lighting plan

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 (WP)
	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

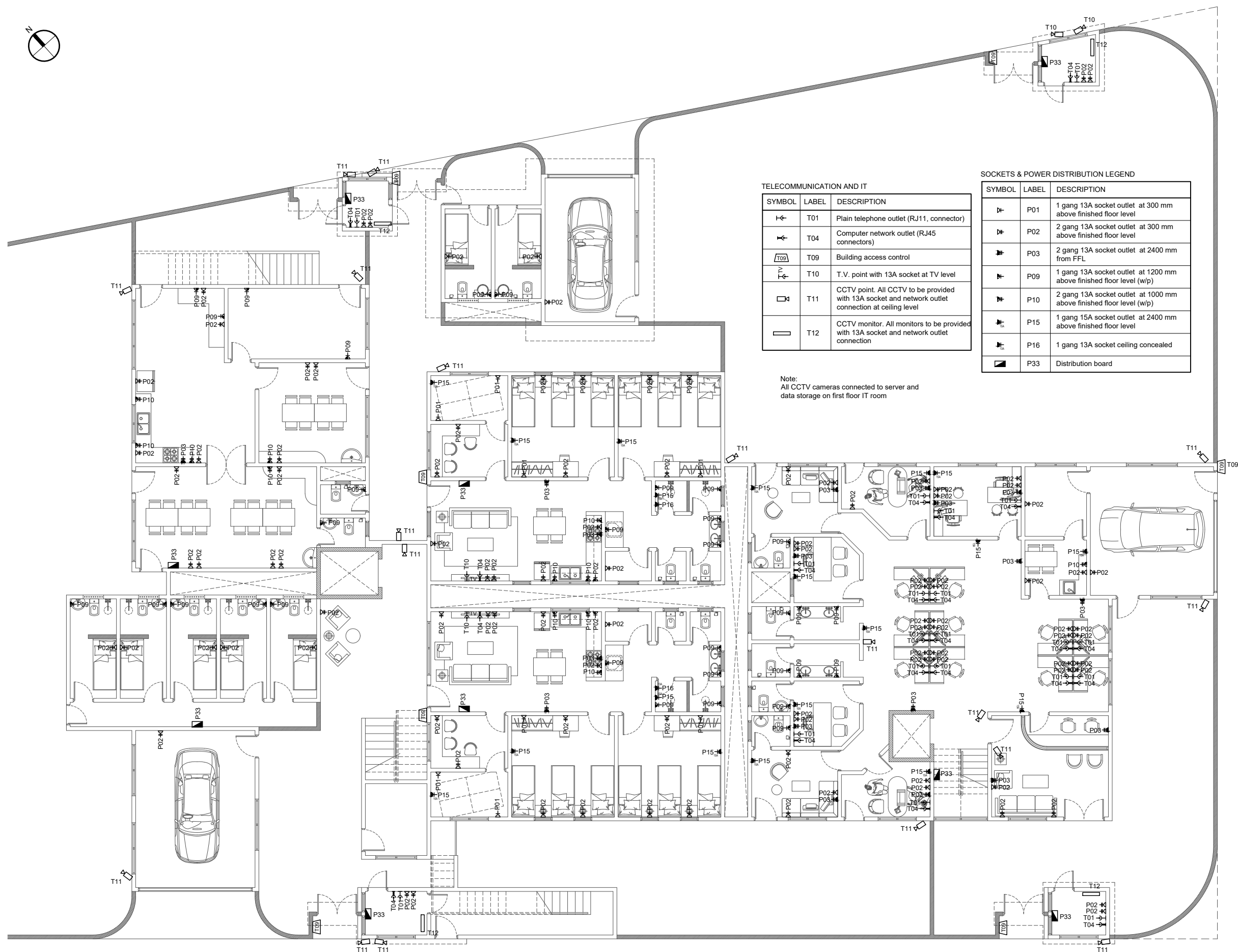
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KEY PLAN



FIRST FLOOR LIGHTING PLAN

UPDATE	E-2.02	00
07/03/2021		



01 Ground floor power & IT plan

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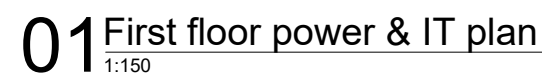
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GROUND FLOOR POWER & IT PLAN

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		SCALE 1:150
FIRST EMISSION 26/02/2021		DRAWING NUMBER E-2.03		REVISION 00	
UPDATE 07/03/2021					



SYMBOL	LABEL	DESCRIPTION
	P01	1 gang 13A socket outlet at 300 mm above finished floor level
	P02	2 gang 13A socket outlet at 300 mm above finished floor level
	P03	2 gang 13A socket outlet at 2400 mm from FFL
	P09	1 gang 13A socket outlet at 1200 mm above finished floor level (w/p)
	P10	2 gang 13A socket outlet at 1000 mm above finished floor level
	P15	1 gang 15A socket outlet at 2400 mm above finished floor level
	P16	1 gang 13A socket ceiling concealed
	P33	Distribution board

Note:
All CCTV cameras connected to server and
data storage on first floor IT room

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MINISTRY OF HOME AFFAIRS

PROJECT

PROPOSED TWO STOREY
JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO








FIRST FLOOR POWER & IT 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	SCALE 1:150
FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
UPDATE 07/03/2021	E-2.04		00



SYMBOL	DESCRIPTION
	Air-conditioning indoor unit wall mounted
	Air-conditioning outdoor unit wall mounted
	500 x 500 air exhaust grill (inline with 80 CMH fan)
	Aluminum flexible pipe
	Insulated liquid pipe
	Insulated gas pipe
	Insulated drain pipe
A to B	Above to below
B to A	Below to above

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GROUND FLOOR ACMV PLAN

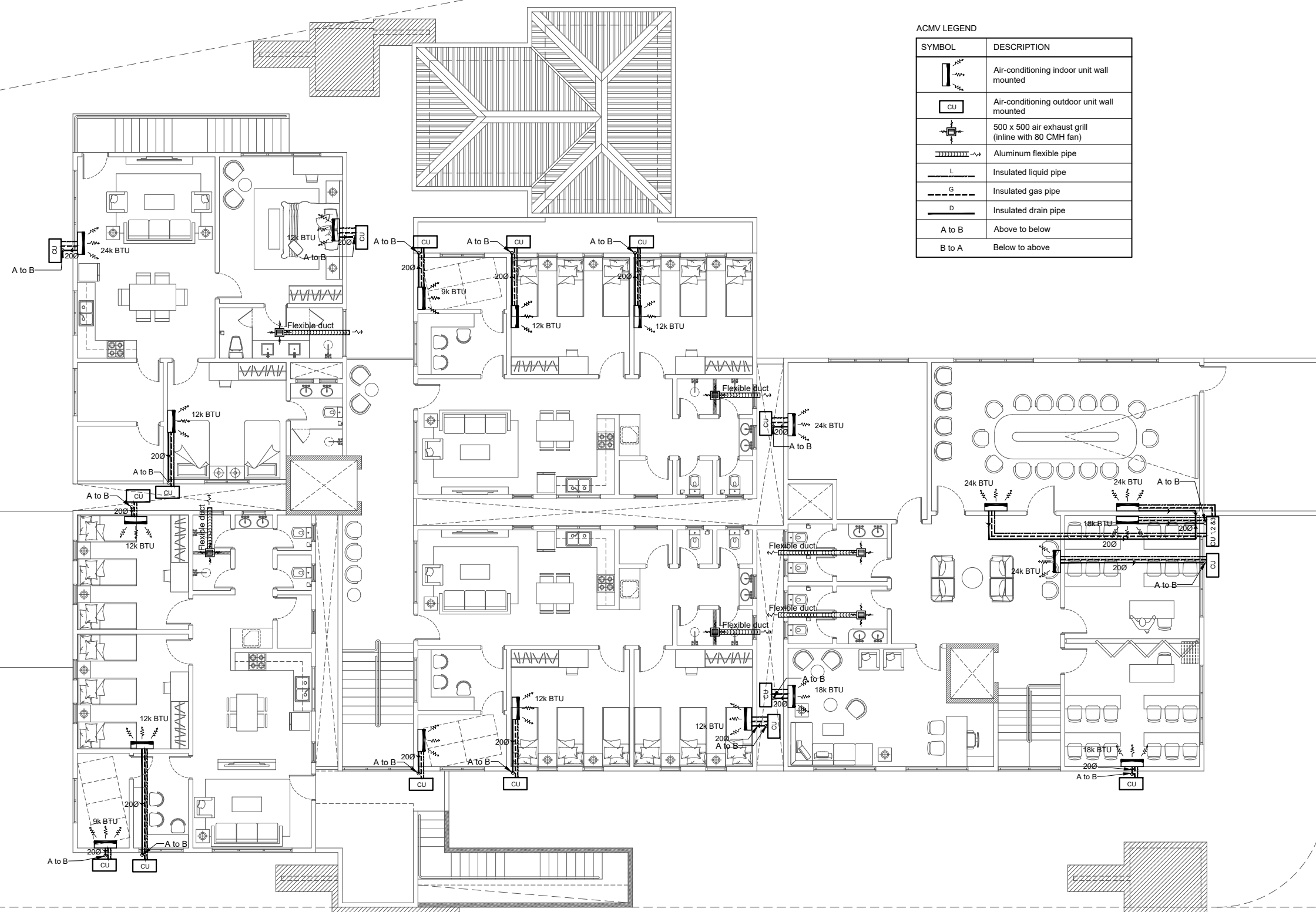
DESIGN STAGE

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

DRAWN BY DE		DESIGNED BY HANEEF	CHECKED BY HANEEF
DISCIPLINE ELECTRICAL		SHEET SIZE A3	SCALE 1:150
FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
UPDATE 07/03/2021	E-2.05		00

01 Ground floor ACMV plan





01 First floor ACMV plan



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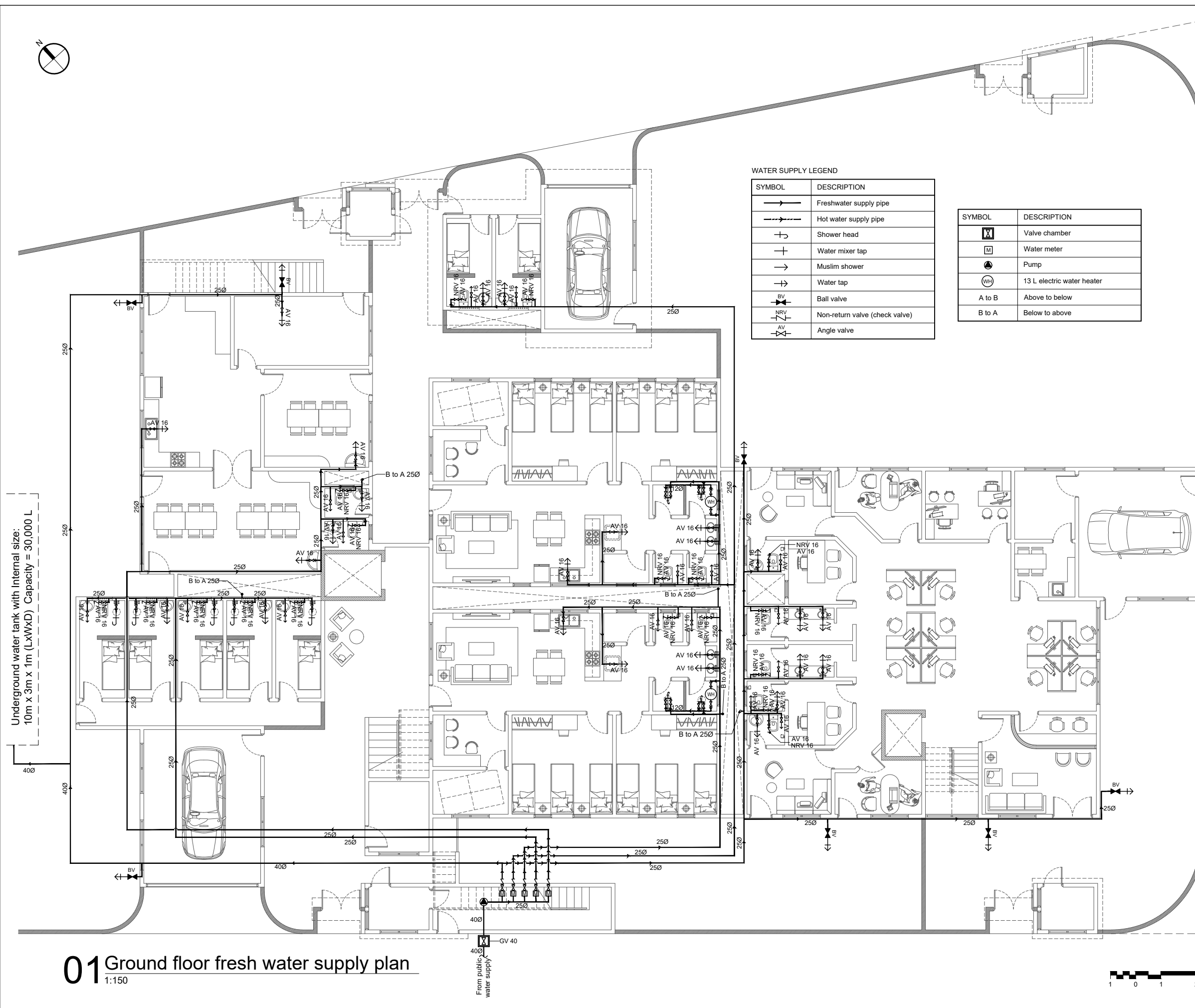
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FIRST FLOOR ACMV PLAN

DESIGN STAGE

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

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DISCIPLINE ELECTRICAL			SHEET SIZE A3		SCALE 1:150
FIRST EMISSION 26/02/2021		DRAWING NUMBER			REVISION
UPDATE 07/03/2021		E-2.06			00




01 Ground floor fresh water supply plan

1:150

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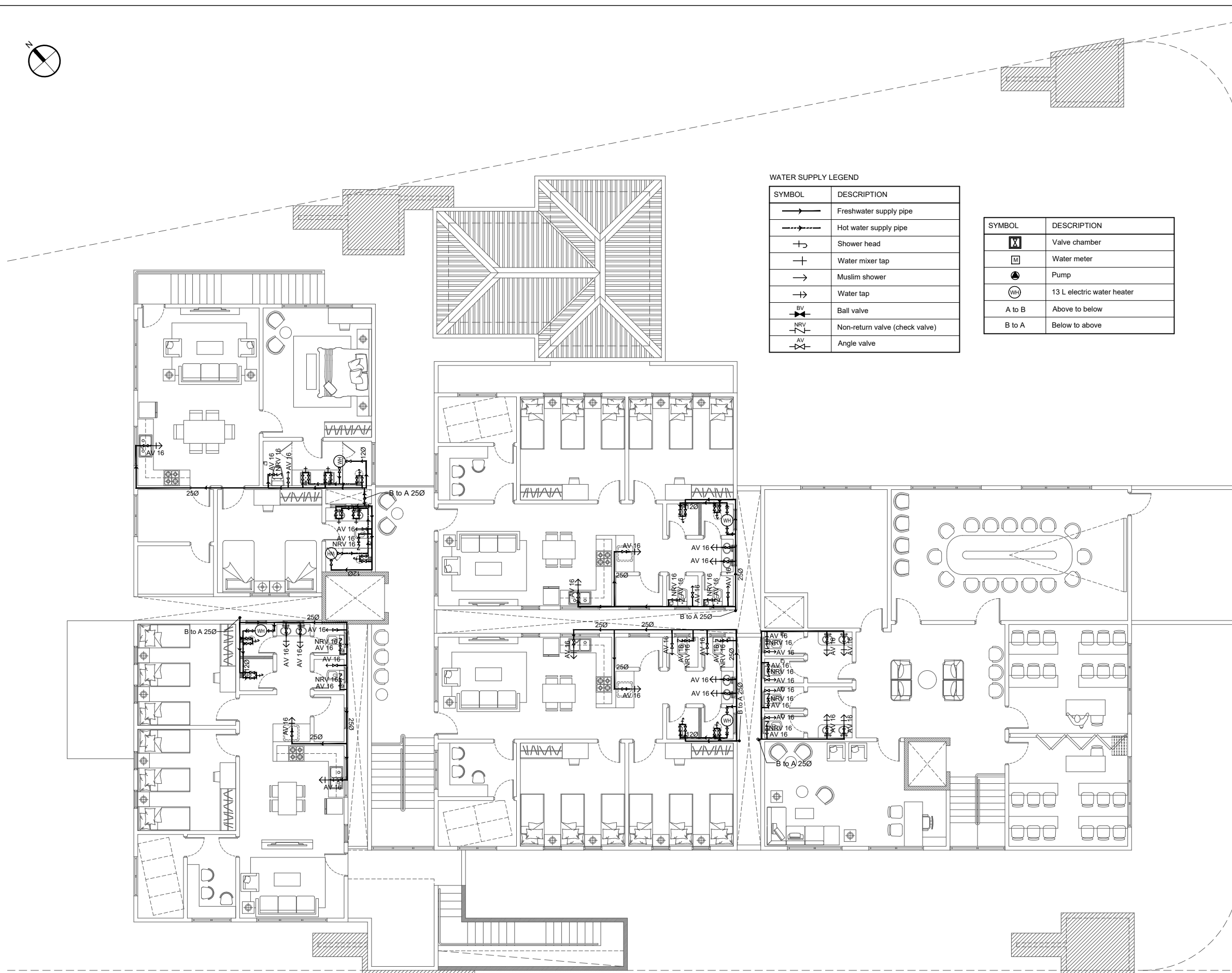

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PROJECT
PROPOSED TWO STOREY JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO
TITLE
GROUND FLOOR FRESH WATER SUPPLY PLAN

DESIGN STAGE

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

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DISCIPLINE PLUMBING			SHEET SIZE A3		SCALE 1:150
FIRST EMISSION 26/02/2021		DRAWING NUMBER P-2.01			REVISION 00
UPDATE 07/03/2021					



01 First floor fresh water supply plan



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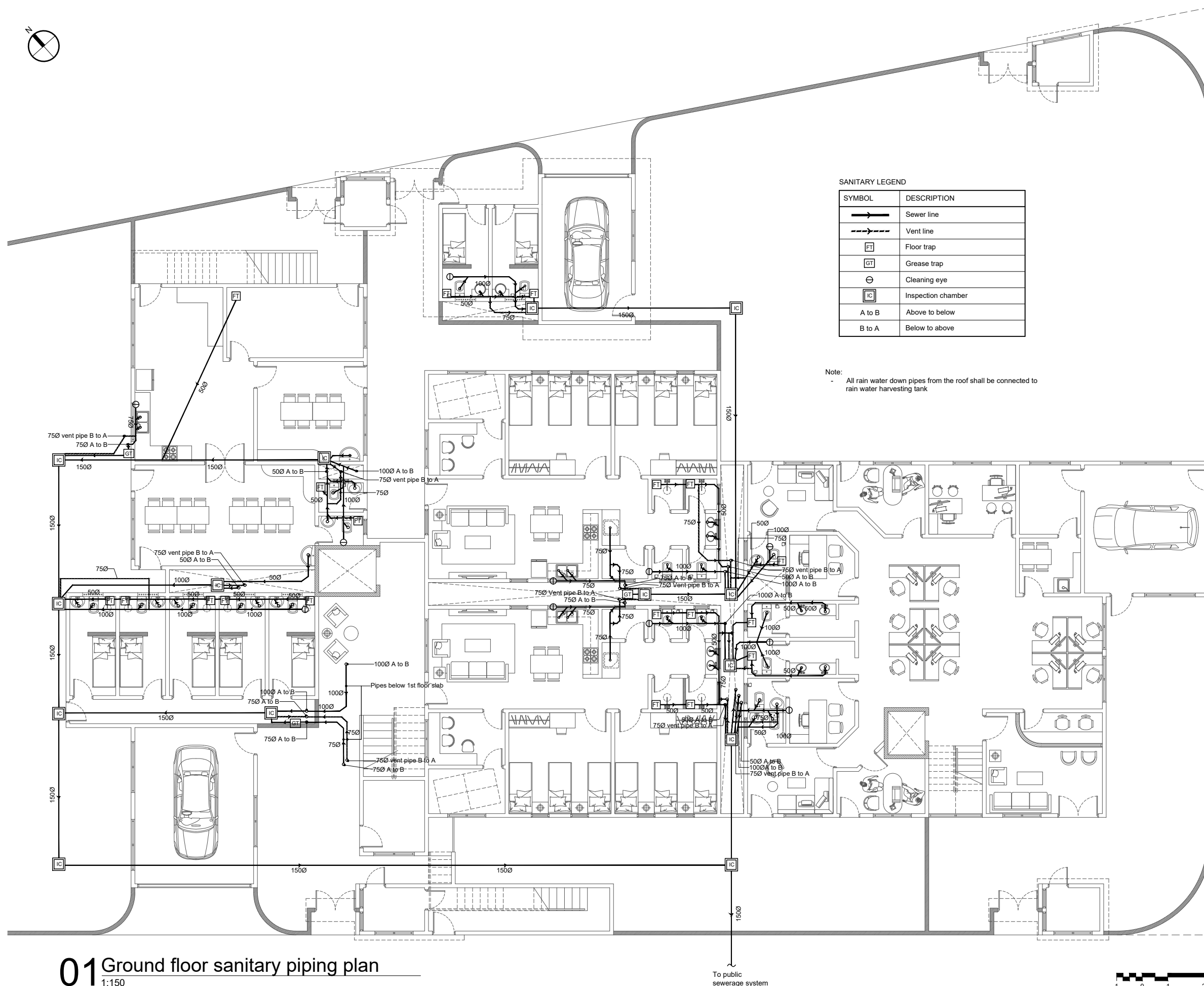
TITLE

FIRST FLOOR FRESH WATER
SUPPLY PLAN

DESIGN STAGE

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

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DISCIPLINE PLUMBING			SHEET SIZE A3		SCALE 1:150
FIRST EMISSION 26/02/2021		DRAWING NUMBER			REVISION
UPDATE 07/03/2021		P-2.02			00



01 Ground floor sanitary piping plan

1:150

To public
sewerage system

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

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
GROUND FLOOR SANITARY PIPING PLAN

DESIGN STAGE

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

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DISCIPLINE PLUMBING		SHEET SIZE A3	SCALE 1:150
FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
UPDATE 07/03/2021	P-2.03		00



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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TITLE

FIRST FLOOR SANITARY PIPING
PLAN

DESIGN STAGE

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

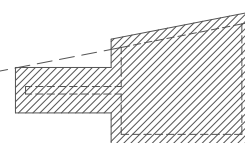
DRAWN BY DE		DESIGNED BY HANEEF	CHECKED BY HANEEF
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FIRST EMISSION 26/02/2021	DRAWING NUMBER		REVISION
UPDATE 07/03/2021	P-2.04		00















01 First floor sanitary piping plan












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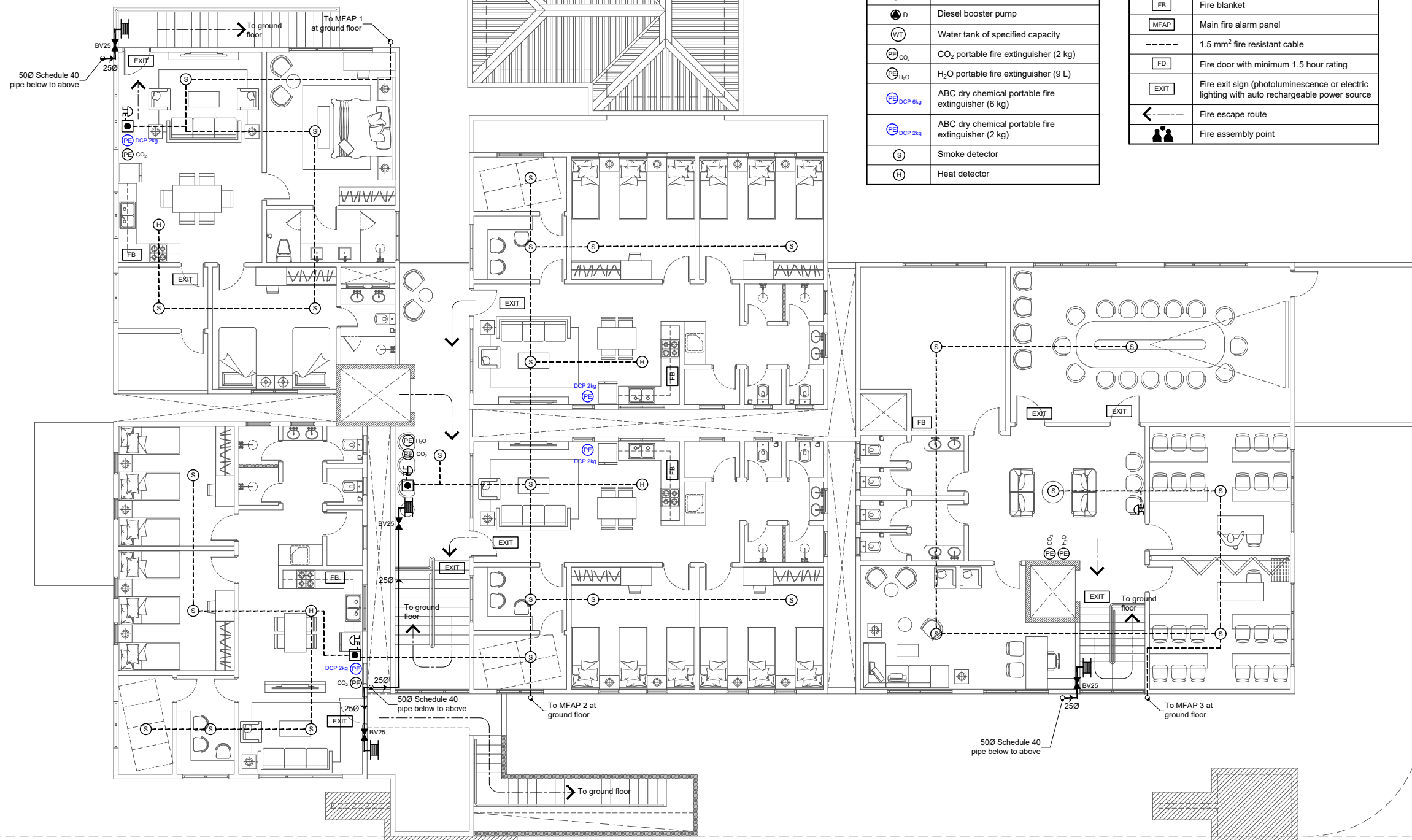


- Note:
1. All piping works and fixtures shall be fire resistant
 2. All wiring (including detection and alarming circuits) shall be fire resistant
 3. All materials, fixtures, cabinets and equipment should be approved by MNDF prior to installation
 4. Power to booster pump shall be exclusive with cable 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 ₂ portable fire extinguisher (2 kg)
	H ₂ 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 ² 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



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PROJECT

PROPOSED TWO STOREY
JUVENILE RESIDENTIAL CENTER
DH. KUDAHUVADHOO

TITLE
FIRST FLOOR FIRE PROTECTION
PLAN

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

DRAWN BY	DE
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DESIGNED BY	
HANEEF	

CHECKED BY	
HANEEF	

DISCIPLINE
FIRE PR

SHEET
SECTION A3

SIZE	SCALE
	1:150

FIRST EMISSION
26/02/2021

N	DRAWING NUM
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NUMBER	REVISION
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UPDATE
07/03/2021

F-2.0

2	00
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01 First floor fire protection plan

1:150

