

Proposed 06 Classroom at
Irushadiyya School, S.Maradhoo
(02 Storey)

ARCHITECTURAL & STRUCTURAL DRAWINGS

Client: Ministry of Education

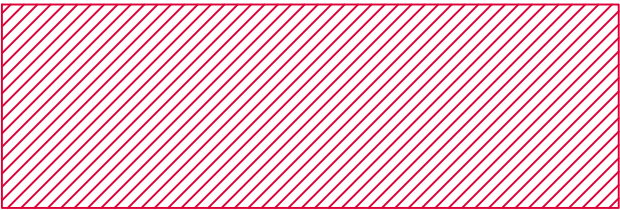


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3rd floor, H. Azum, Ammeenemagu, Male'

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SITE PLAN



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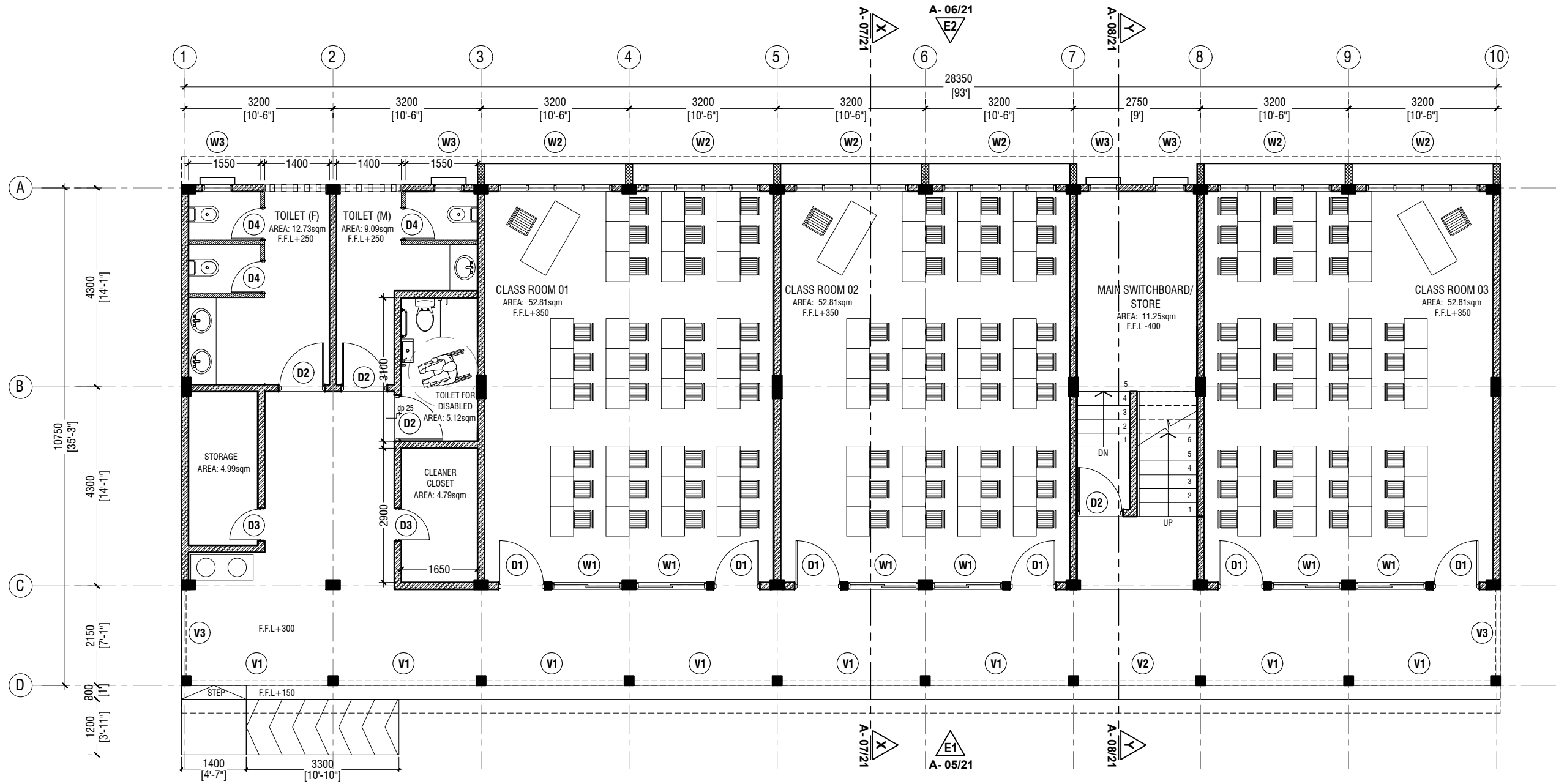
Irushadhiyya School, S.Maradhoo - 06 Classroom (02 Storey)
Client: Ministry of Education

Project Number: RI/2017/012
Date: June 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

Rev no	Date
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Title: Site Plan

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GROUND FLOOR PLAN

SCALE 1:100



NOTE:

- PROPOSED 150mm THICK SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 150mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
- PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH



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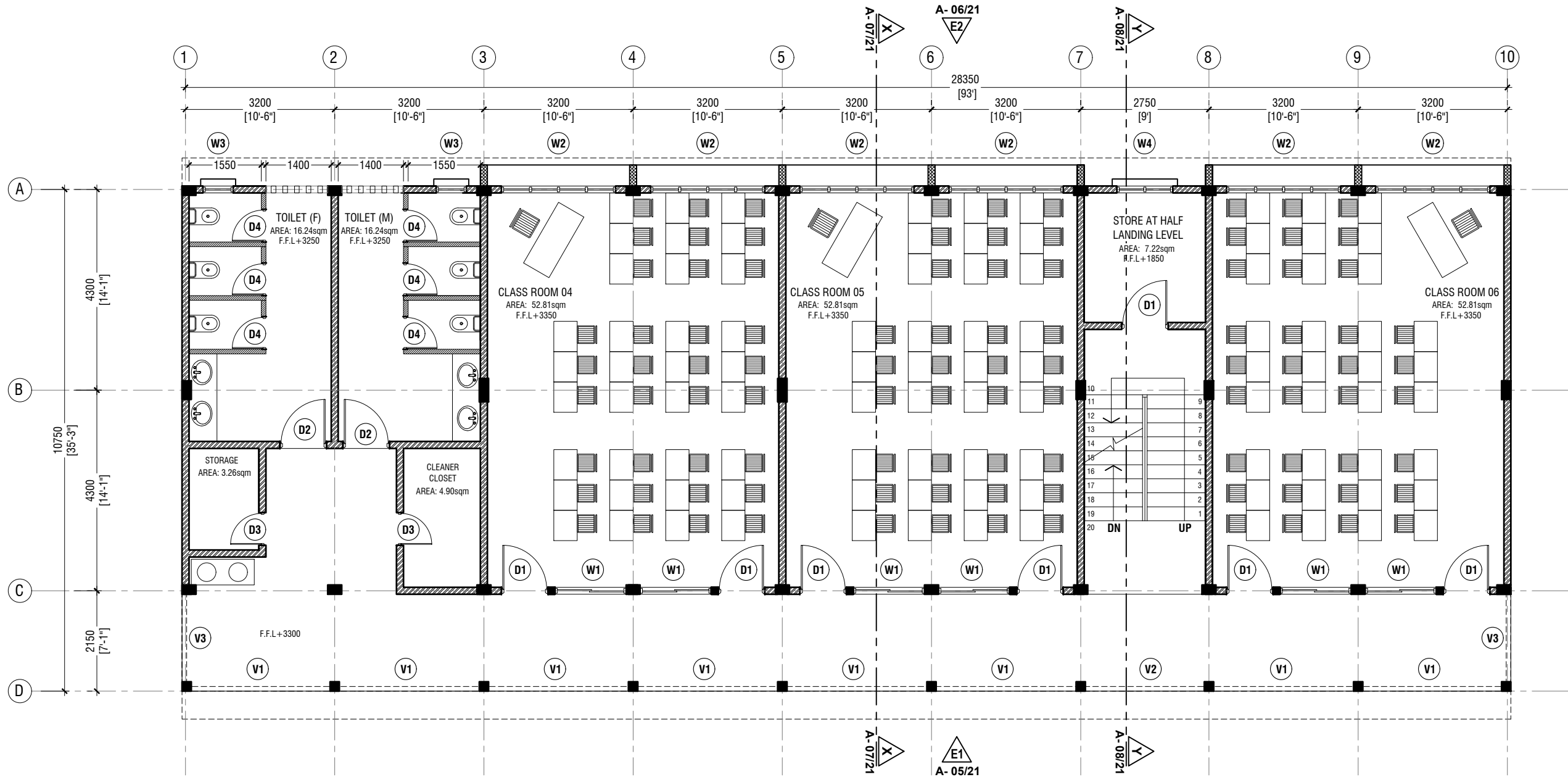
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Architect : Razana Amir
Engineer : Ahmed Zuhail Zaem
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Services : Aishath Ahmed
Interior : -

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Title: Ground Floor Plan

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FIRST FLOOR PLAN

SCALE 1:100



NOTE:

- PROPOSED 150mm THICK SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 150mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
- PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH



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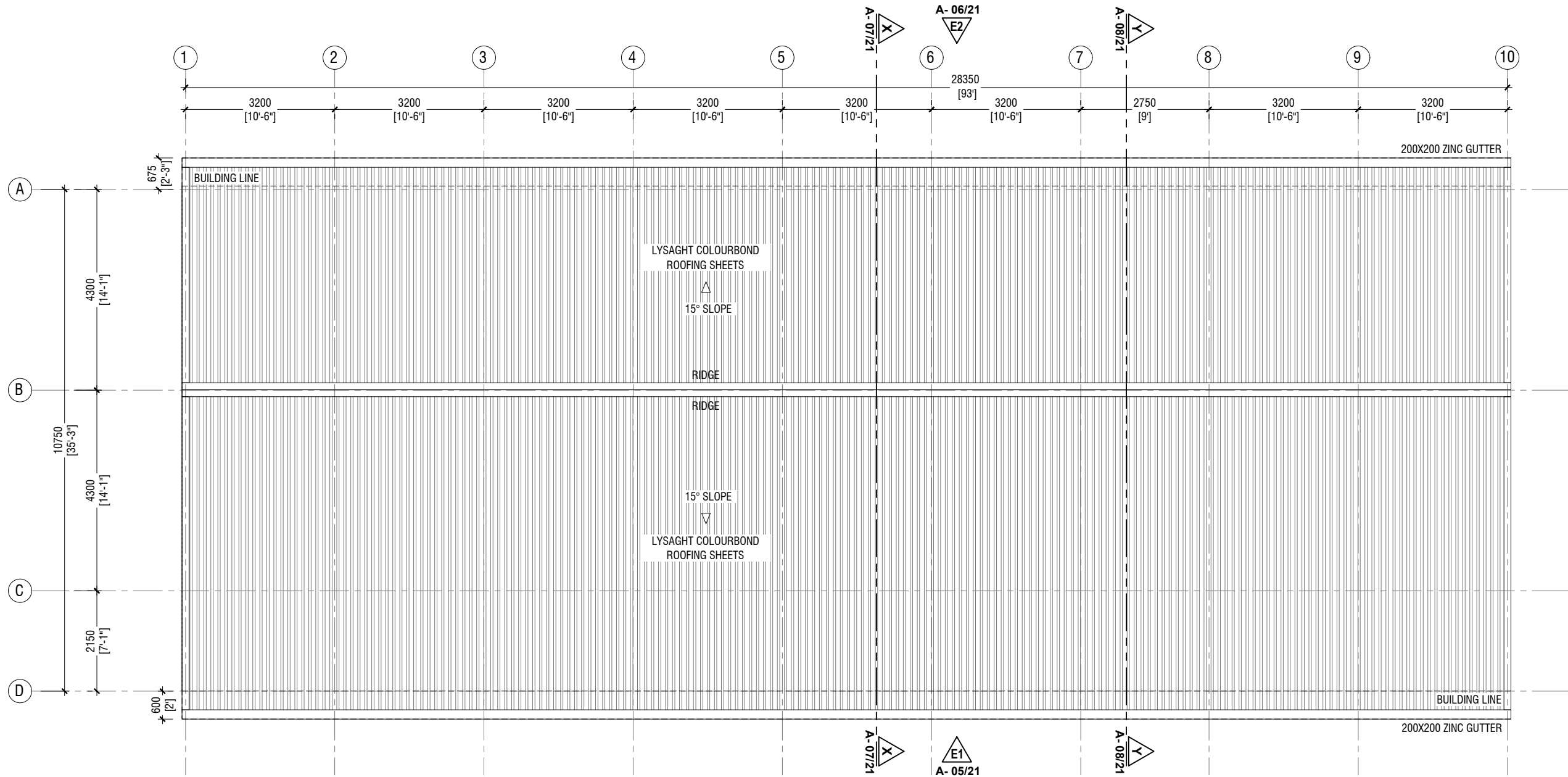
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Services : Aishath Ahmed
Interior : -

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Title: First Floor Plan

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ROOF PLAN

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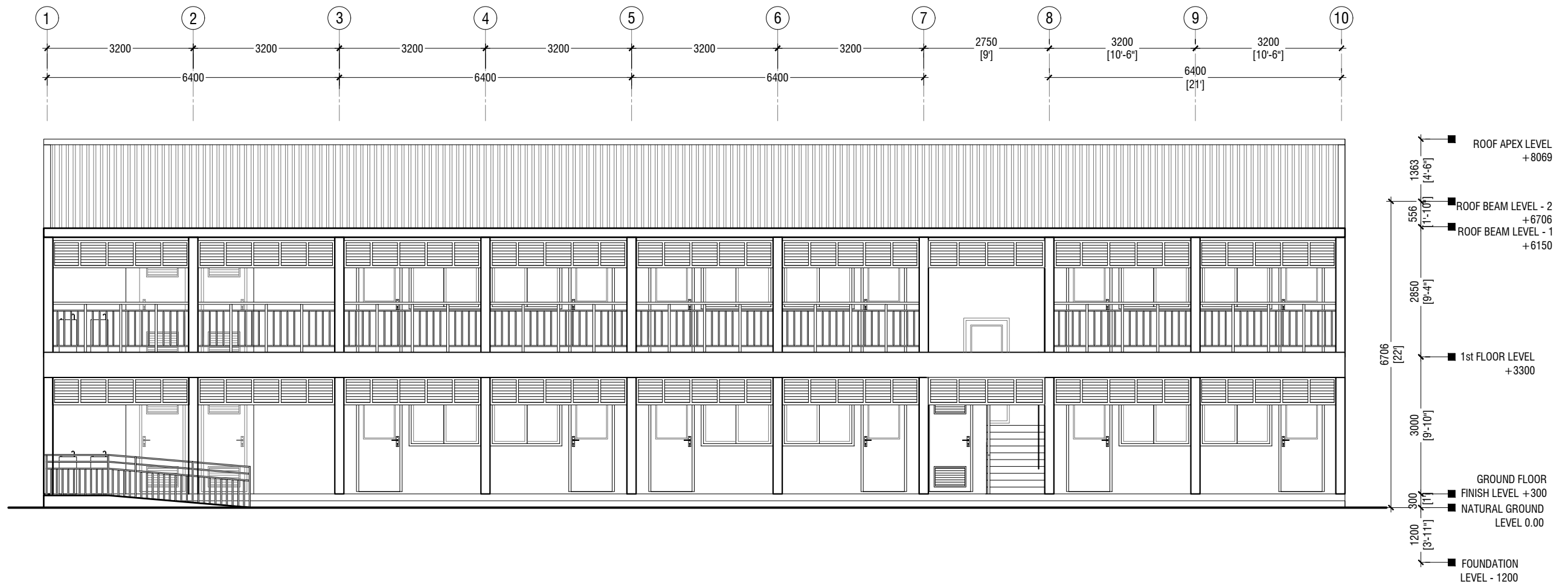
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Date: June 2019
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Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

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Title: Roof Plan

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ELEVATION E1

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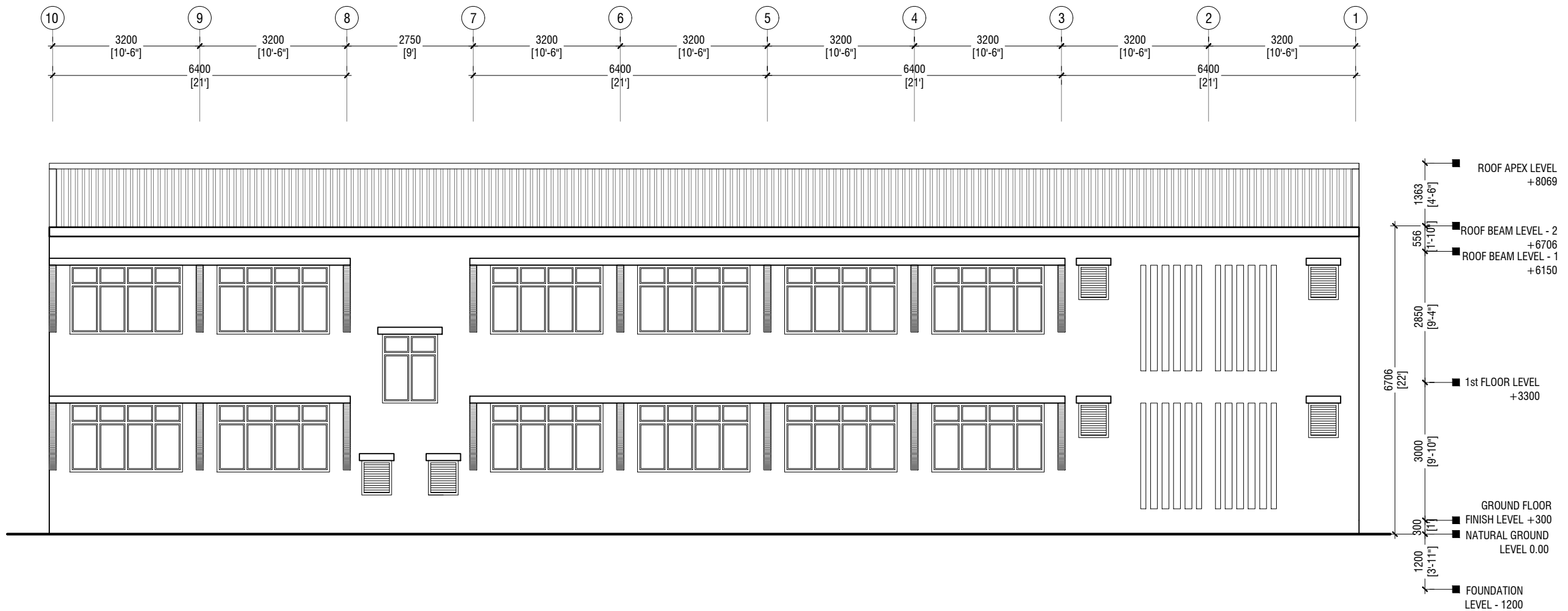
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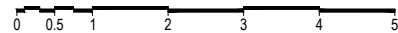
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ELEVATION E2

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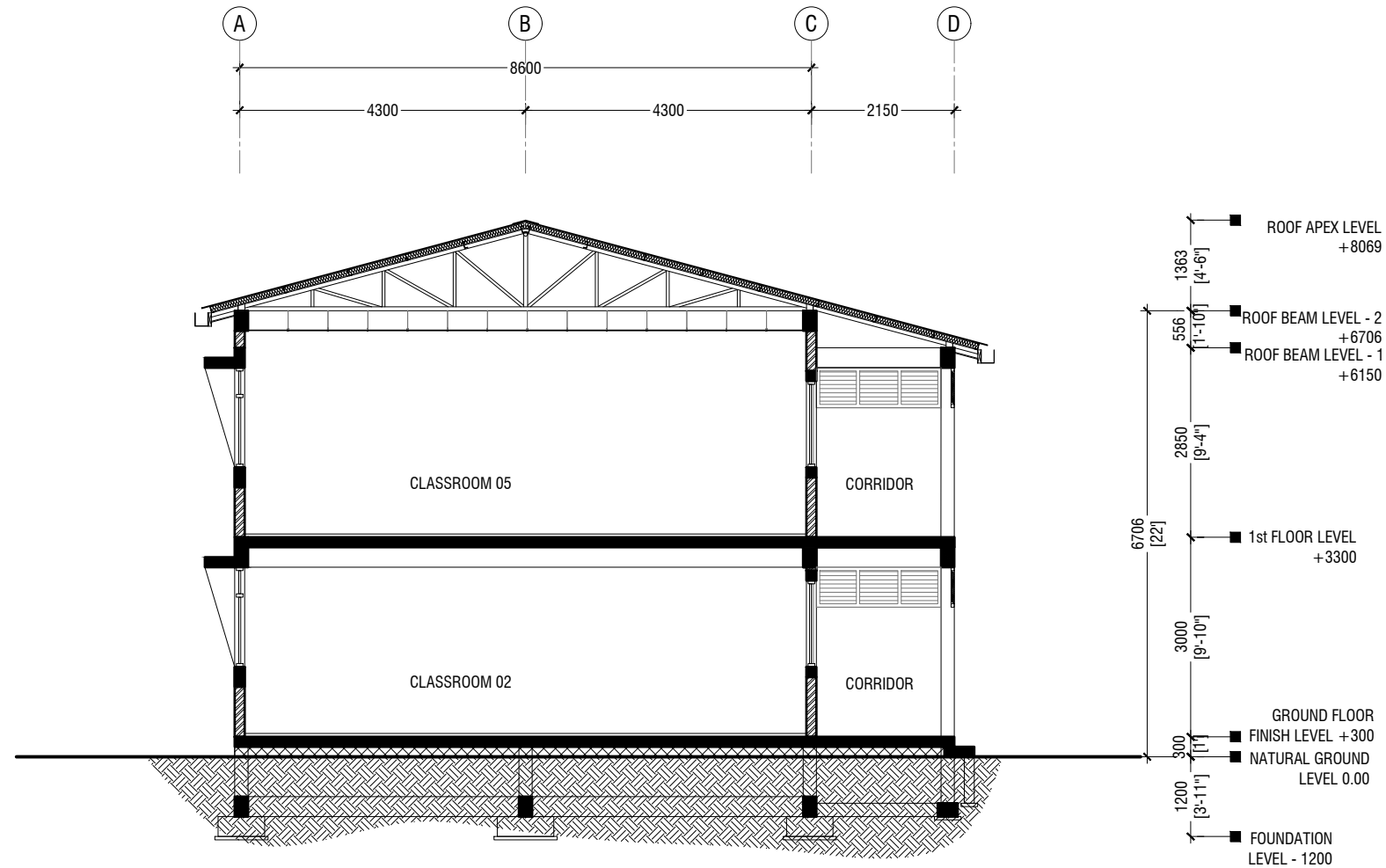
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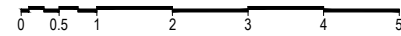
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SECTION X-X

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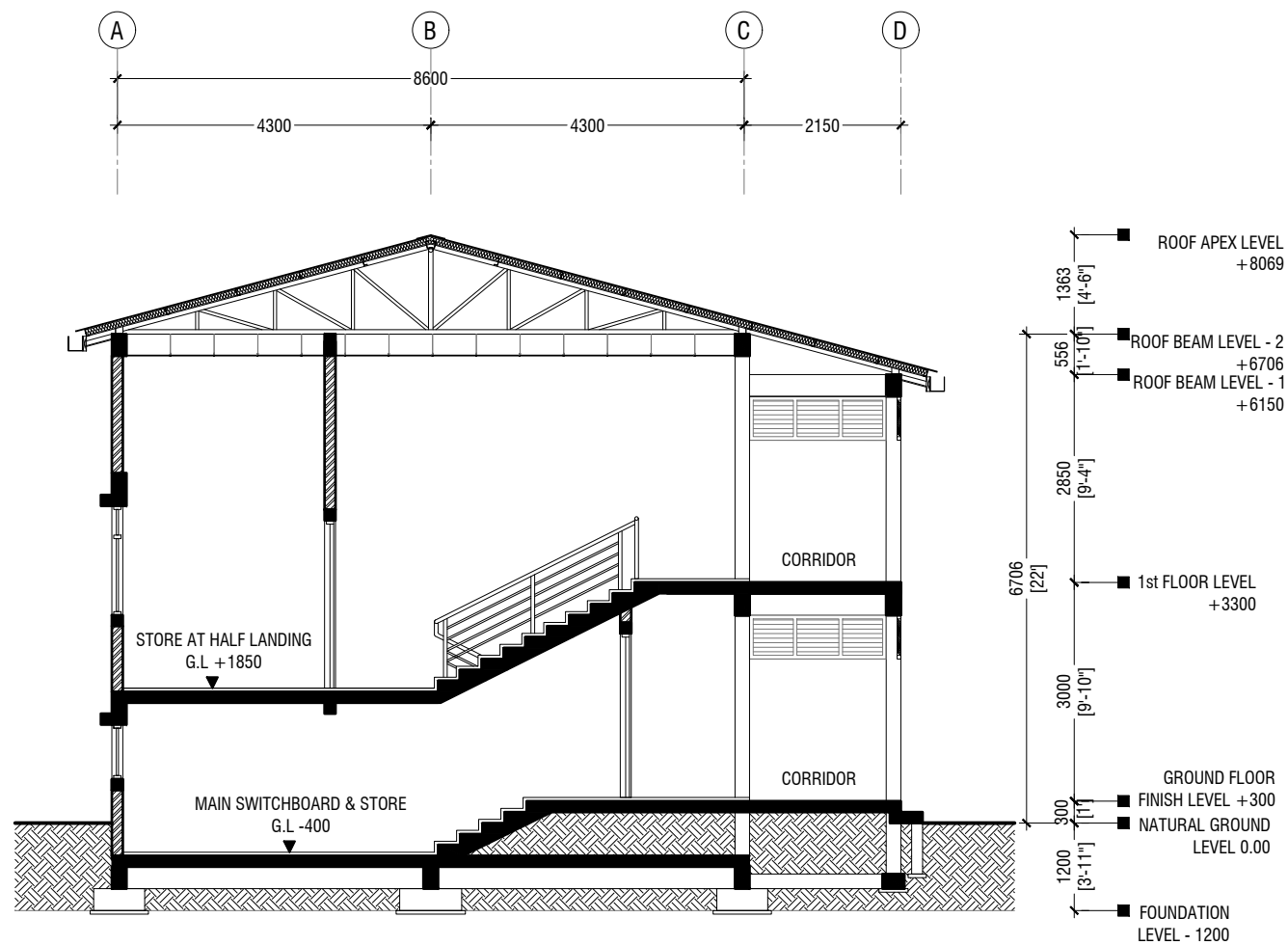
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Services : Aishath Ahmed
Interior : -

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Title: Section X-X

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SECTION Y-Y

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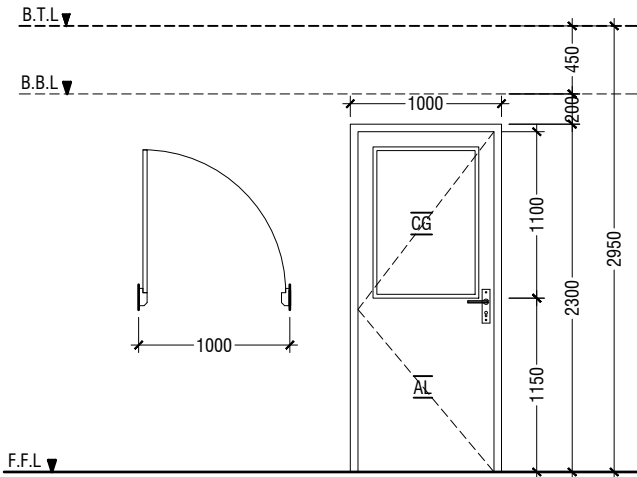
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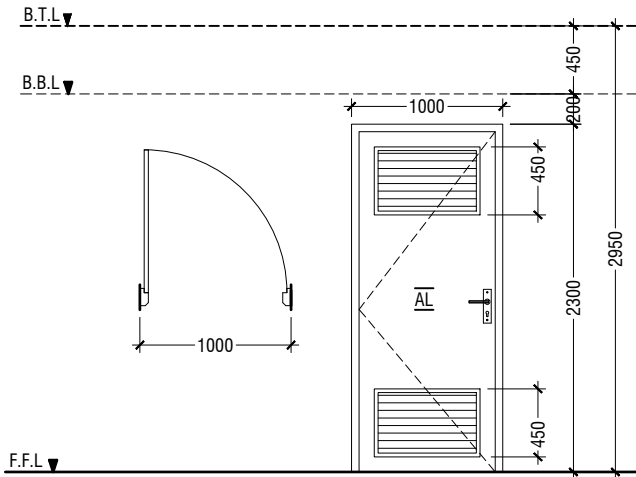
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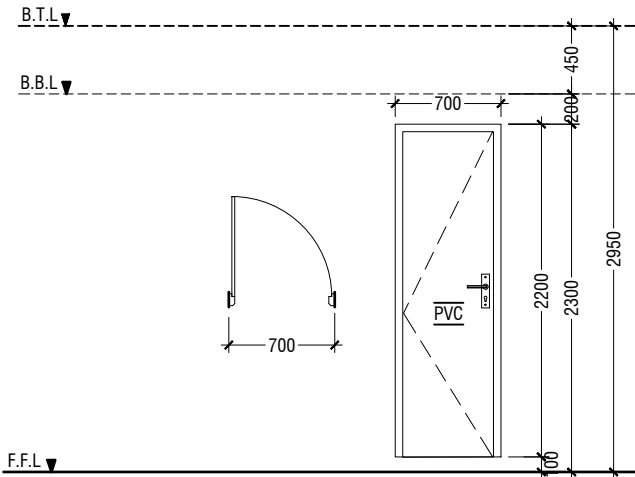
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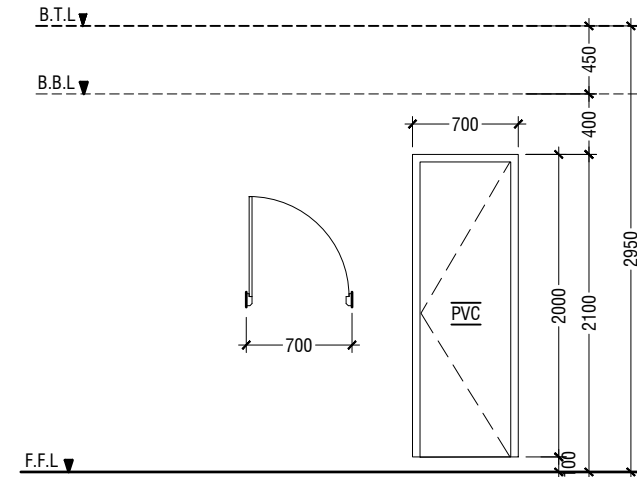
D1	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS & HALF LANDING STORE ROOM
QUANTITY	13 NOS
OPEN AREA	2.03 sqm



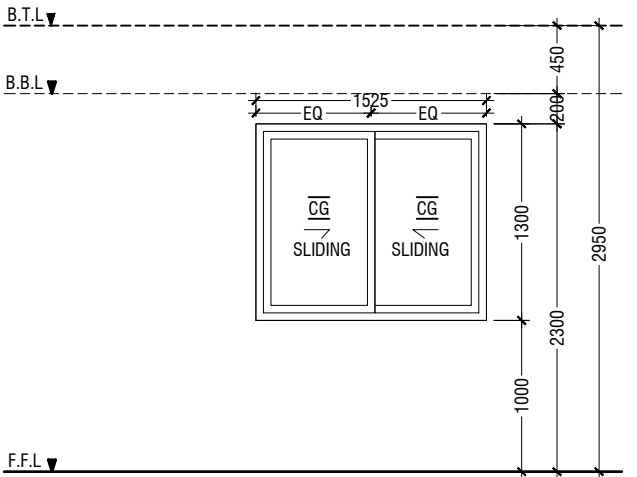
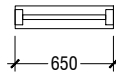
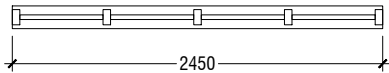
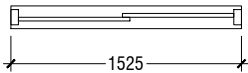
D2	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	06 NOS
OPEN AREA	2.03 sqm



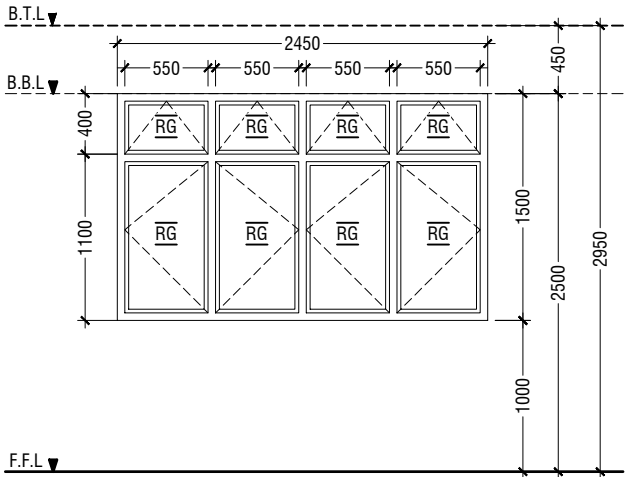
D3	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	STORE & CLEANER CLOSET
QUANTITY	04 NOS
OPEN AREA	1.29 SQM



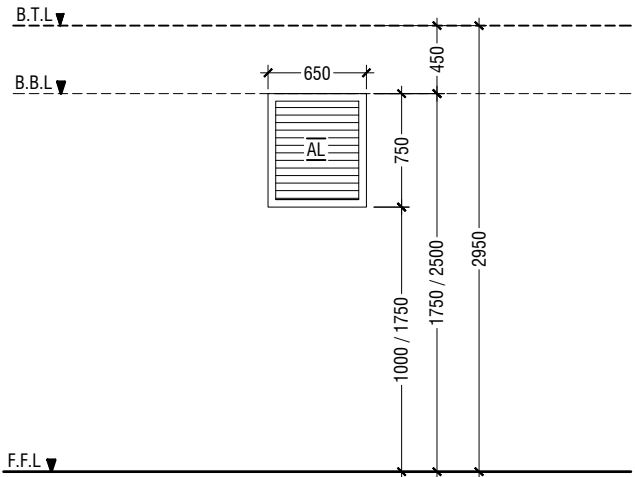
D4	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS STALLS
QUANTITY	09 NOS
OPEN AREA	1.17 SQM



W1	SLIDING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	12 NOS
OPEN AREA	0.83 sqm



W2	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	CLASSROOMS
QUANTITY	12 NOS
OPEN AREA	2.97 sqm



W3	WINDOW WITH ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	06 NOS
OPEN AREA	0.36 SQM

LEGEND:
CG - CLEAR GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

NOTE:-
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

DOOR & WINDOW SCHEDULE - 1

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



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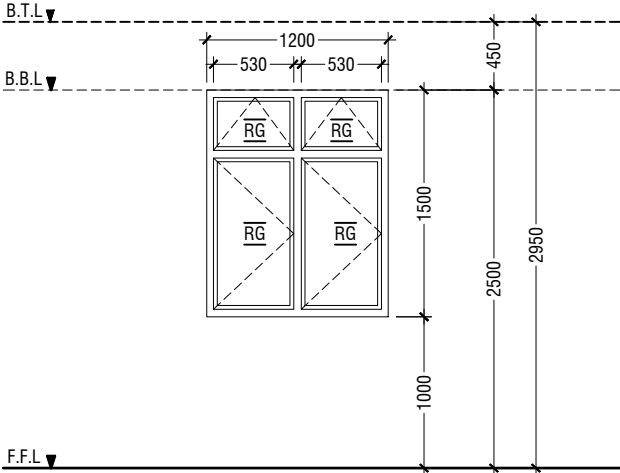
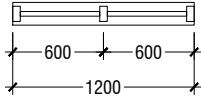
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Interior : -

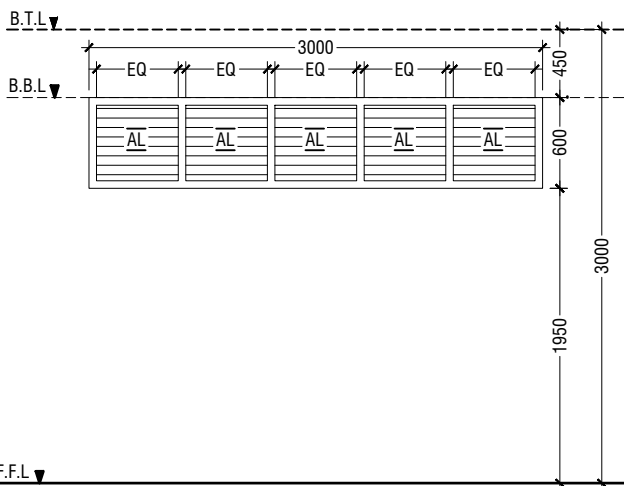
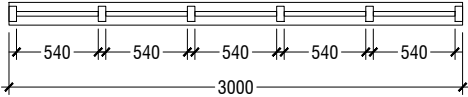
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Title: Door & Window
Schedule - 1

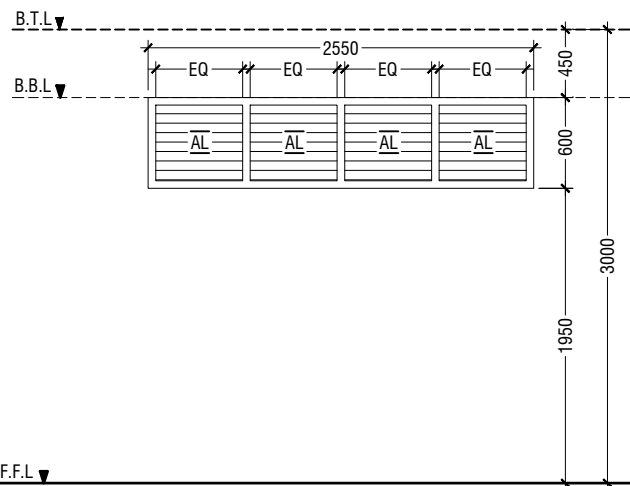
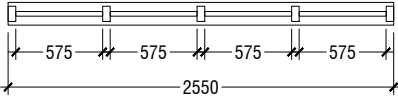
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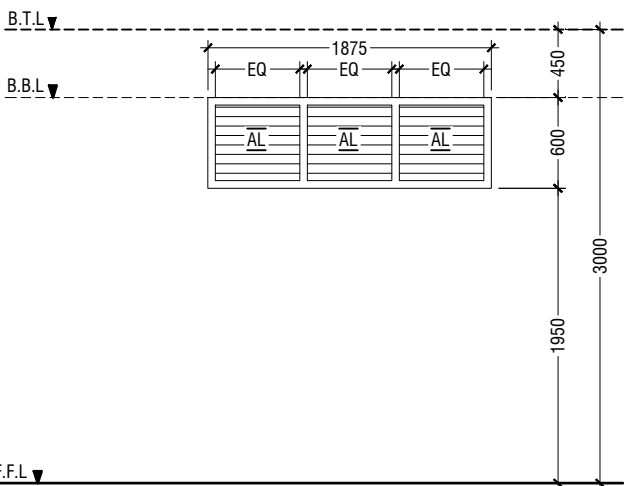
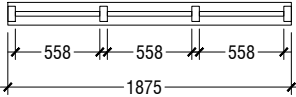
W4	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	HALF LANDING STORE ROOM
QUANTITY	01 NOS
OPEN AREA	1.43 sqm



V1	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	16 NOS
OPEN AREA	1.35 SQM



V2	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	02 NOS
OPEN AREA	1.15 SQM

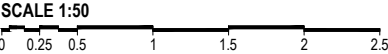


V3	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	04 NOS
OPEN AREA	0.84 SQM

LEGEND:
CG - CLEAR GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

NOTE:-
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- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
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- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

DOOR & WINDOW SCHEDULE - 2

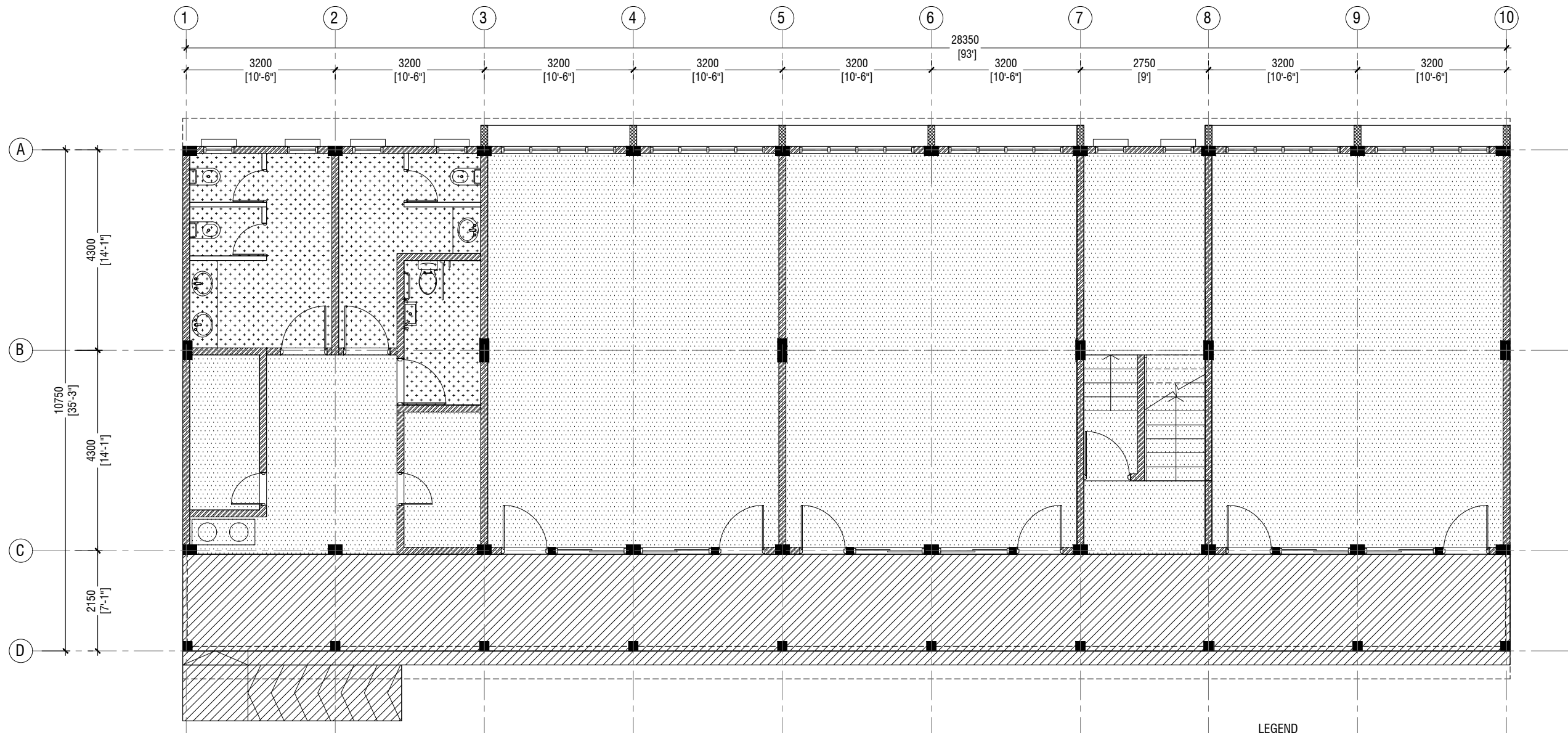


SCHEDULE OF VENTILATION FOR IRUSHADHIYYA SCHOOL, S.MARADHOO

Room name/ Number	Room Areas (sqm) (Specify centre to centre or clear)	Window (opening number	Required opening areas (sqm)	Designed opening areas (sqm)	Open %
Ground Floor					
1 Classroom 1	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
2 Classroom 2	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
3 Classroom 3	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
4 Toilet (F)	12.73		W3 & RC FINS		
5 Toilet (M)	16.24		W3 & RC FINS		
6 Toilet for disabled	5.12		Mechanical Ventilation		
7 Main switchboard /store	11.25		Mechanical Ventilation		
First to Third Floor					
1 Classroom 4	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
2 Classroom 5	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
3 Classroom 6	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
4 Toilet (F)	16.24		W3 & RC FINS		
5 Toilet (M)	16.24		W3 & RC FINS		
6 Store at half landing level	7.22	W4	0.72	1.43	19.81%

VENTILATION SCHEDULE





GROUND FLOOR FLOOR FINISHES PLAN

SCALE 1:100



LEGEND

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	SELF LEVELLING CEMENT FLOOR SCREED WITH EPOXY FLOOR PAINT
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING



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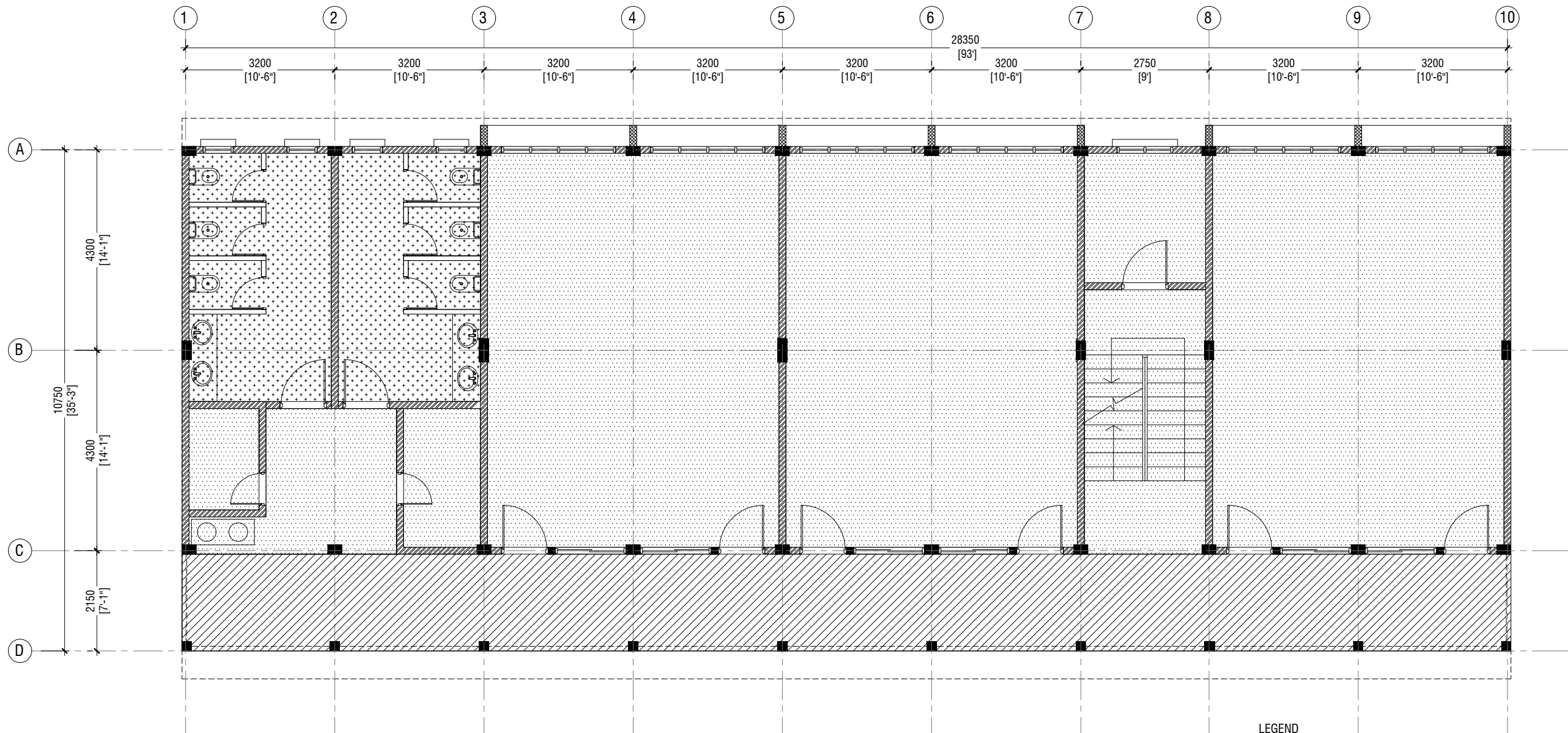
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Title: Ground Floor
Floor Finishes Plan

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FIRST FLOOR FLOOR FINISHES PLAN

SCALE 1:100



LEGEND

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	SELF LEVELLING CEMENT FLOOR SCREED WITH EPOXY FLOOR PAINT
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING



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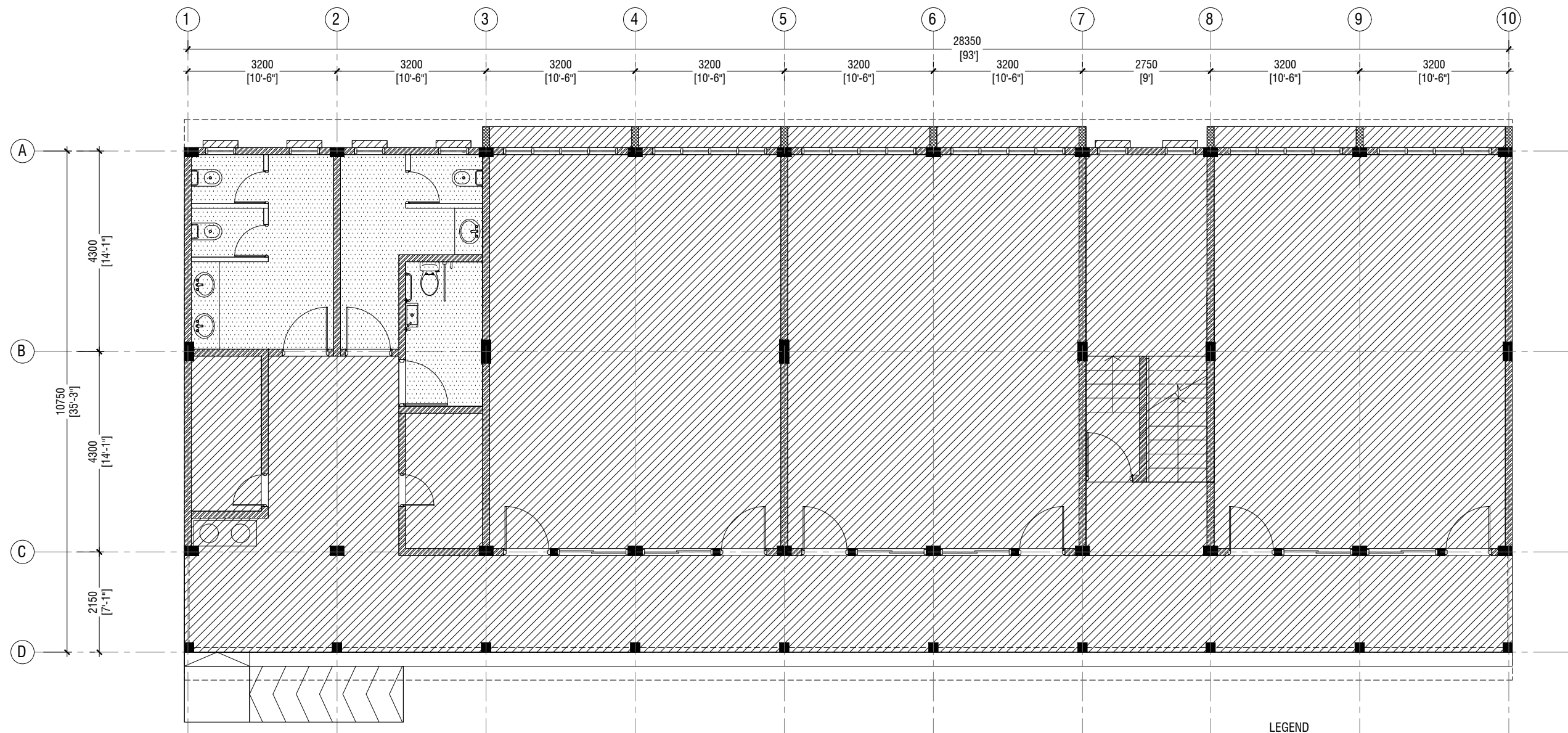
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Title: First Floor
Floor Finishes Plan

Page: A-13/21



GROUND FLOOR REFLECTED CEILING PLAN

SCALE 1:100



LEGEND

CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH
	CEMENT BOARD CELING



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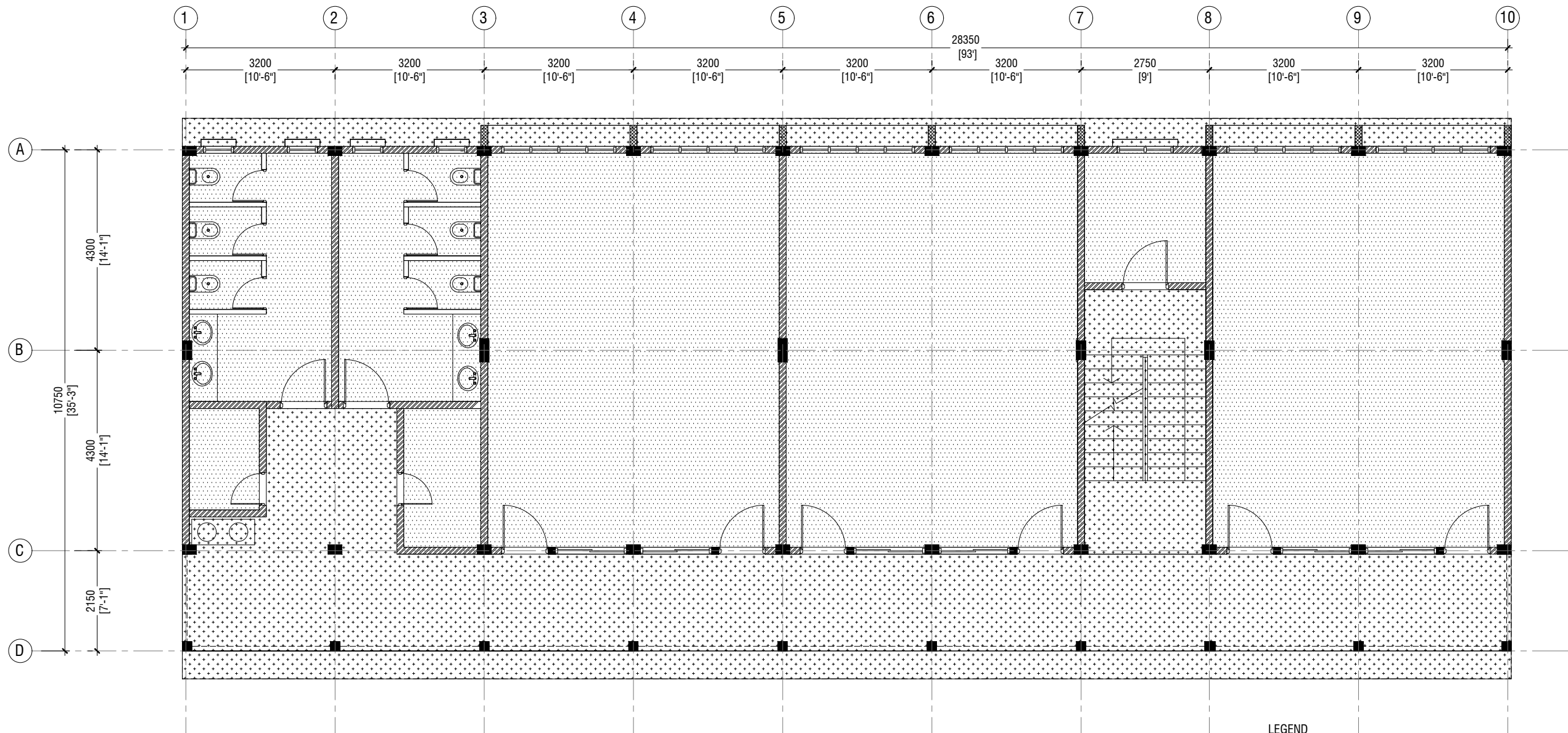
Irushadhiyya School, S. Maradhoo - 06 Classroom (02 Storey)
Client: Ministry of Education

Project Number: RI/2017/012
Date: June 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

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Title: Ground Floor
Reflected Ceiling Plan

Page: A-14/21



FIRST FLOOR REFLECTED CEILING PLAN

SCALE 1:100



LEGEND

CODE	DESCRIPTION
	CEMENT BOARD CELING
	FIXED CEILING 'BORAL' OR EQUIVALENT PLASTERBOARD CEILING SYSTEM WITH TIMBER FRAMES, APPLIED WITH GROUND SMOOTH FINISH IN SELECTED PAINT



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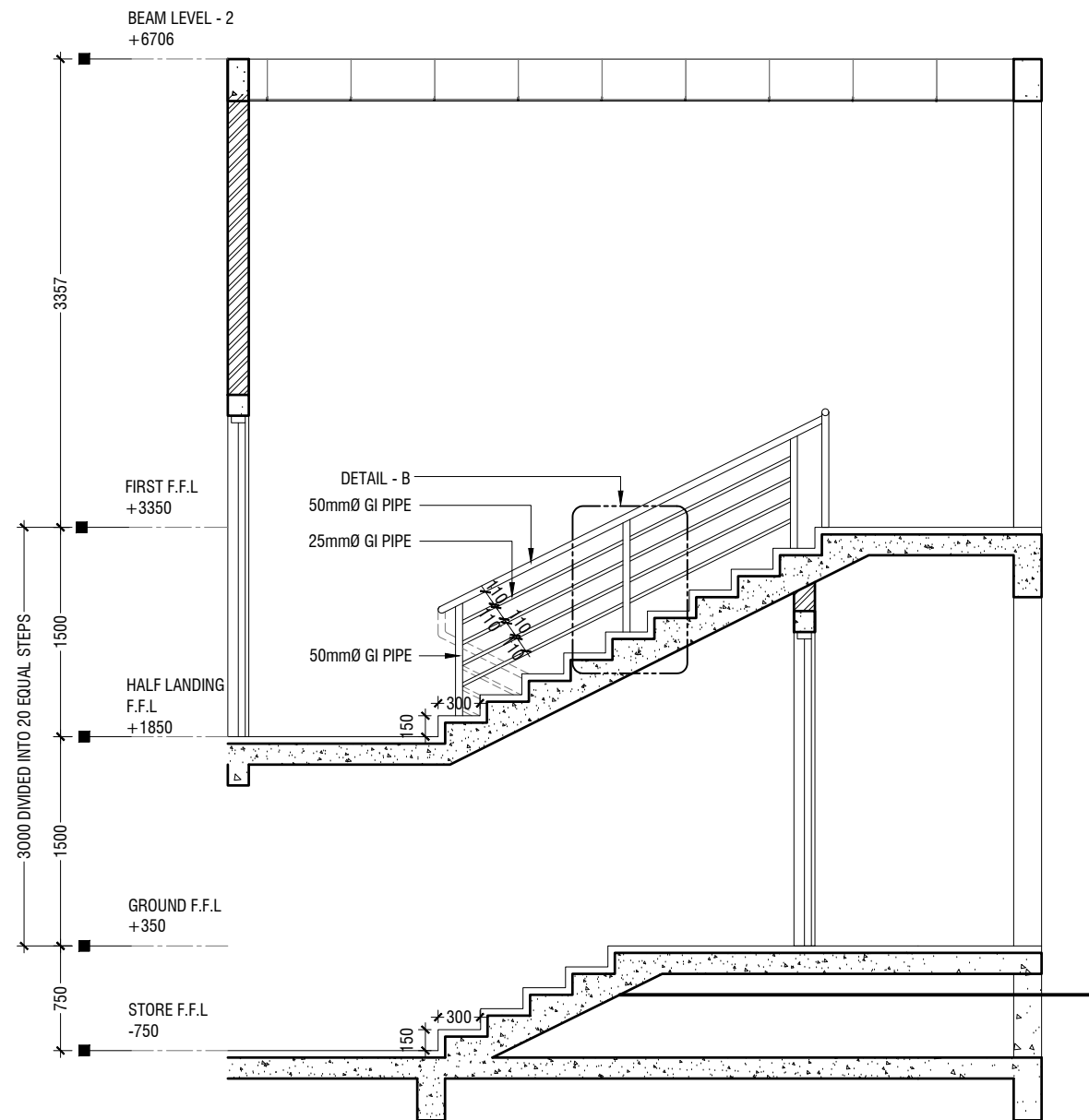
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Client: Ministry of Education

Project Number: RI/2017/012
Date: June 2019
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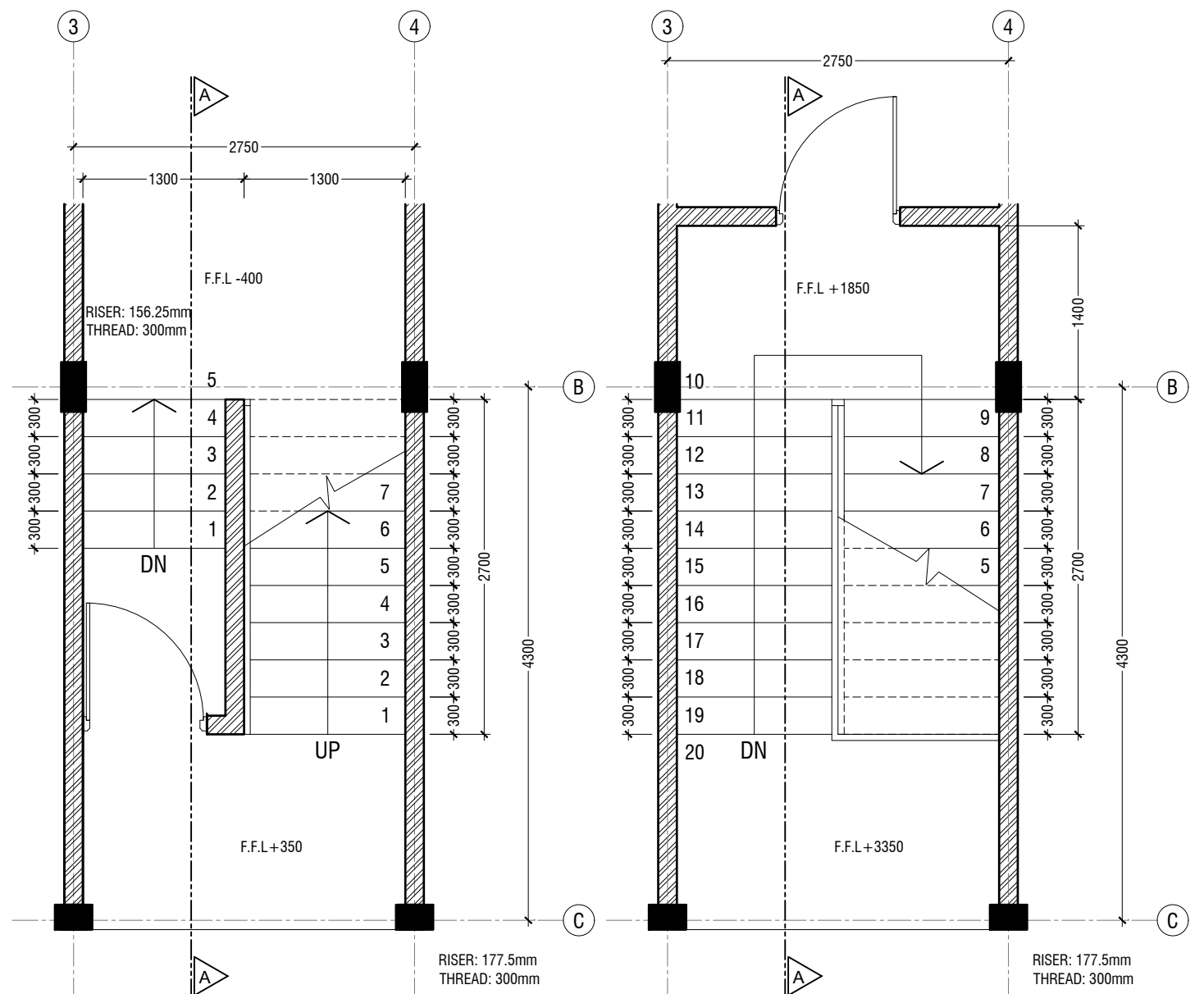
Title: First Floor
Reflected Ceiling Plan

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SECTION A - A

SCALE 1:50

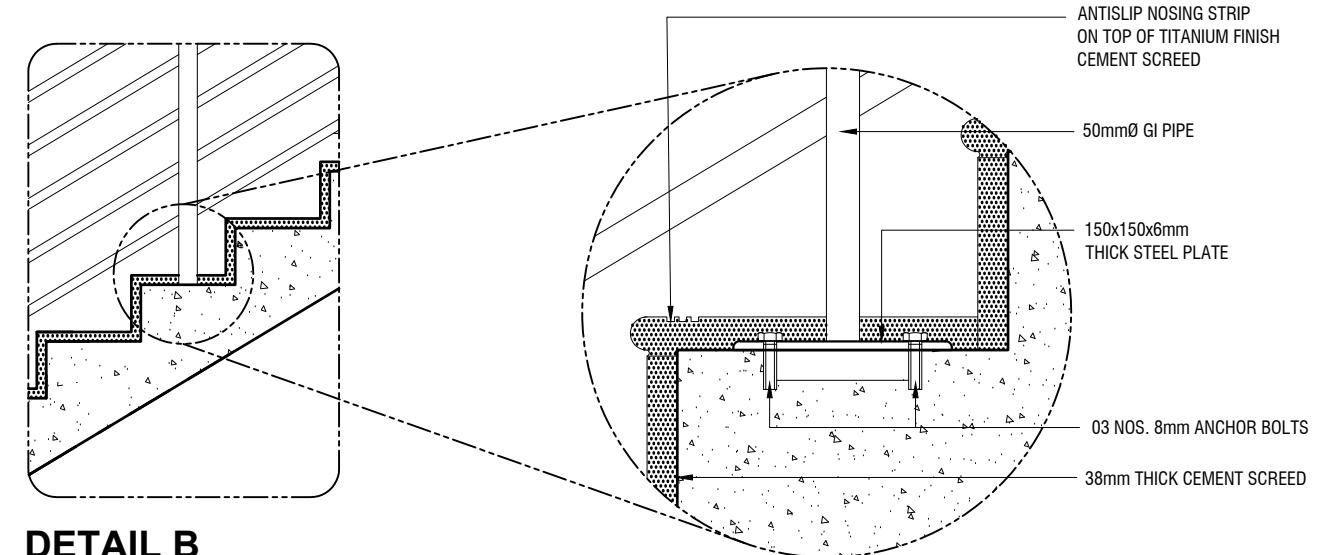


GROUND FLOOR STAIRCASE PLAN

SCALE 1:50

TYPICAL STAIRCASE PLAN

SCALE 1:50

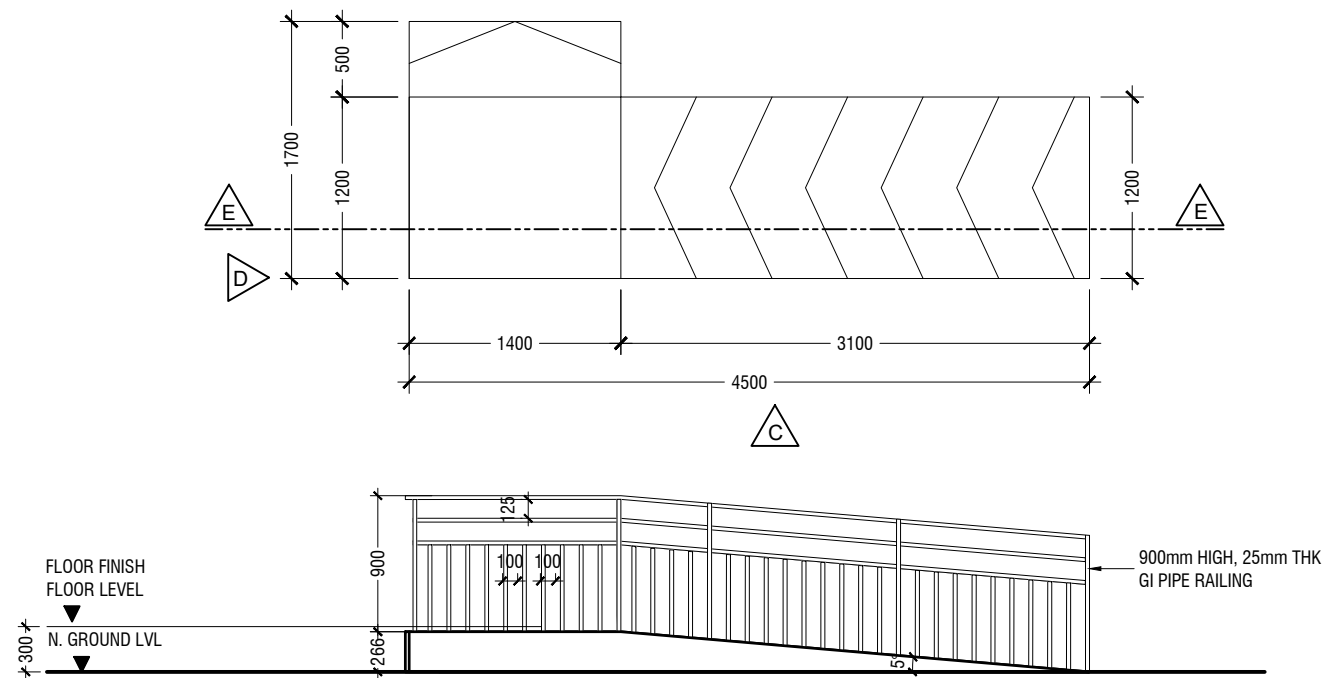


DETAIL B

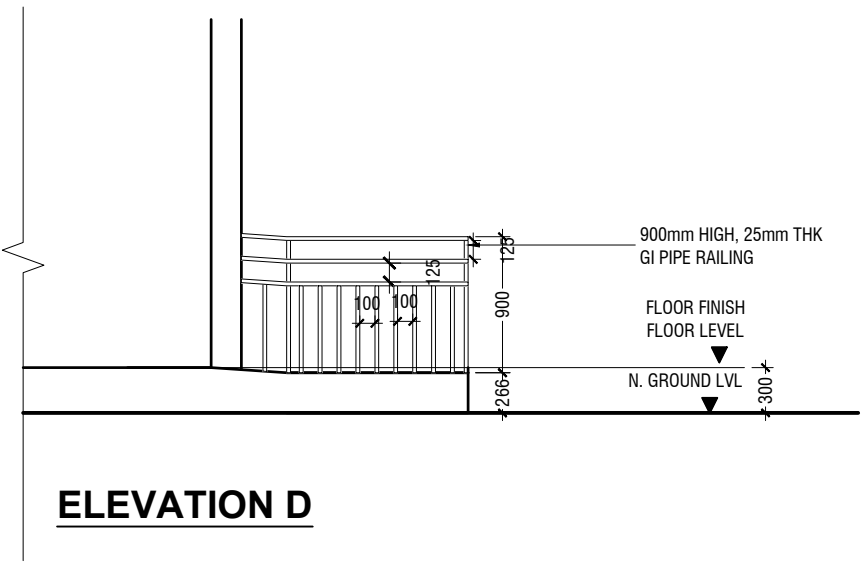
SCALE 1:20

STAIRCASE DETAILS

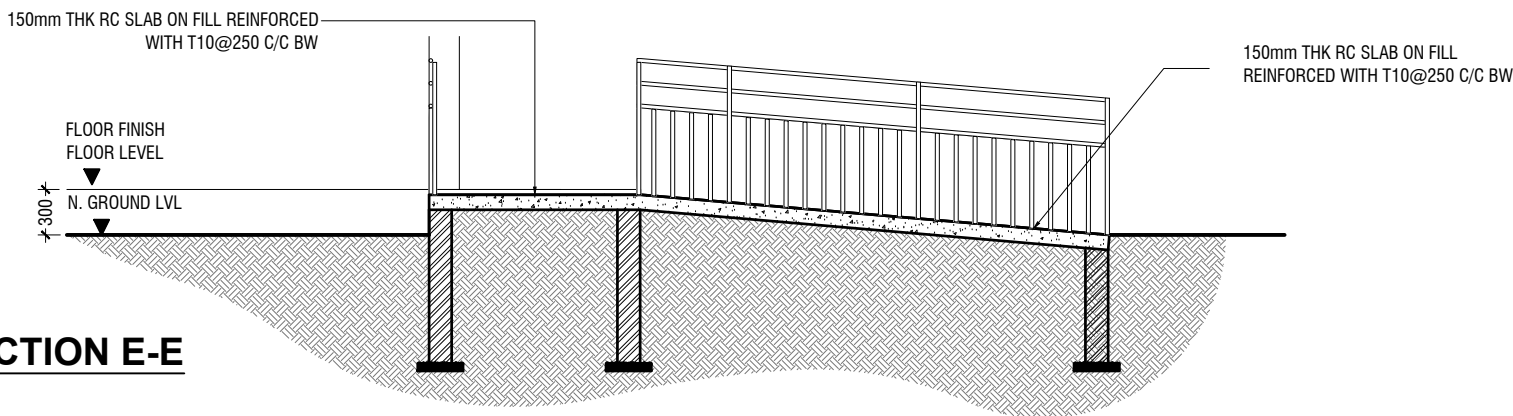
SCALE 1:20



ELEVATION C

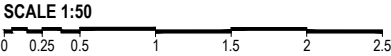


ELEVATION D



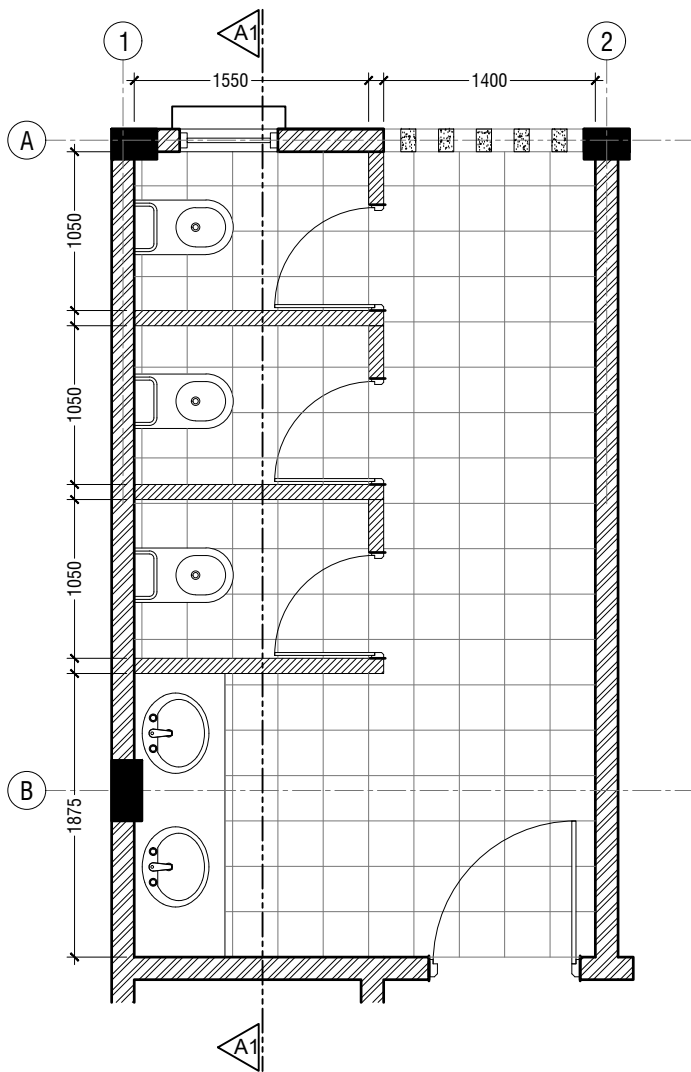
SECTION E-E

MAIN ENTRANCE RAMP DETAILS



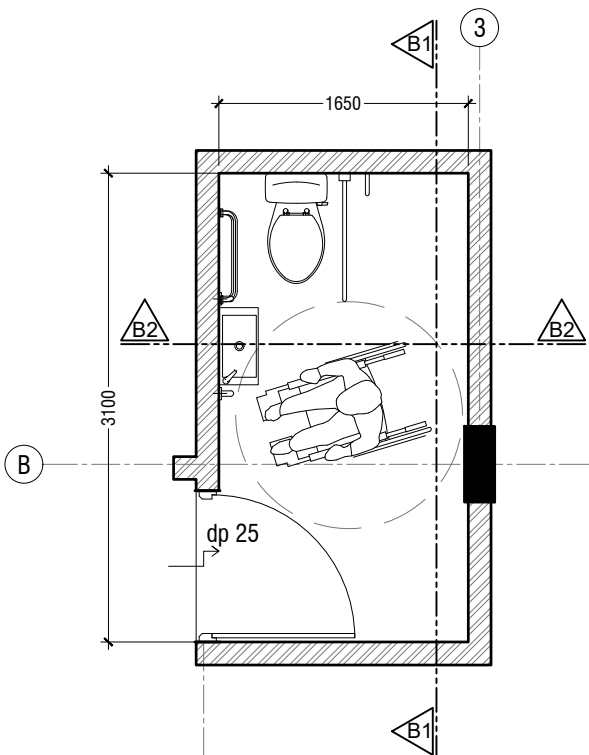
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Irushadhiyya School, S.Maradhoo - 06 Classroom (02 Storey) Client: Ministry of Education		Project Number: RI/2017/012 Date: June 2019 Architect : Razana Amir Engineer : Ahmed Zuhail Zaeem Drawn by : Razana Amir Services : Aishath Ahmed Interior : -	
Rev no	Date	Title: Main Entrance Ramp Details Page: A-17/21	
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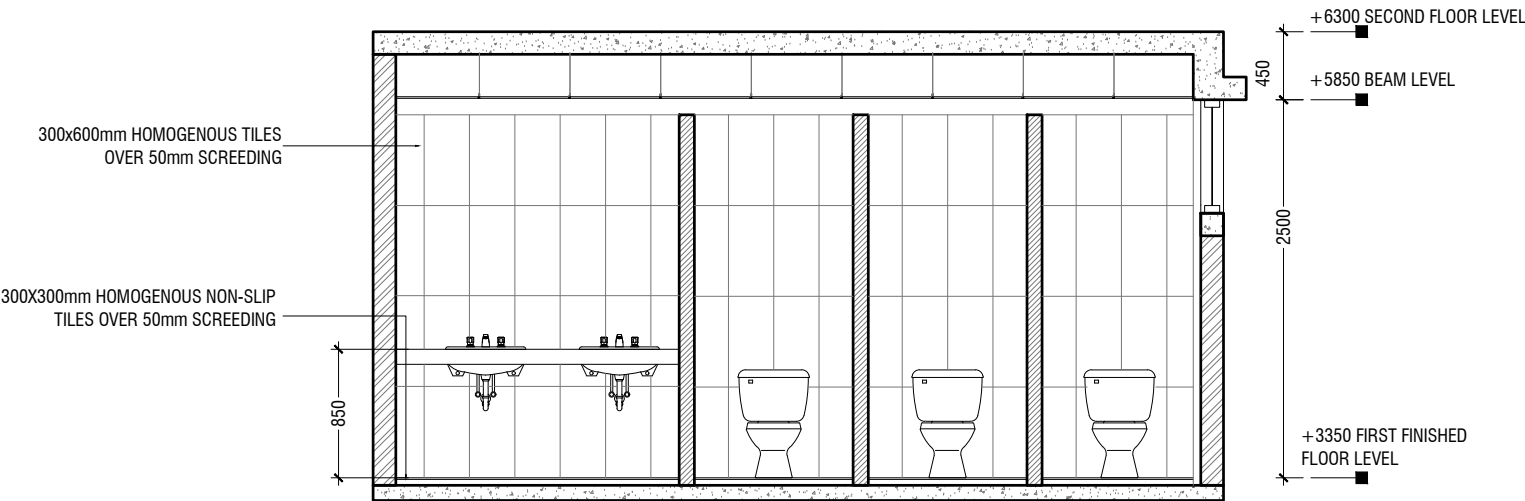
TYPICAL TOILET PLAN

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



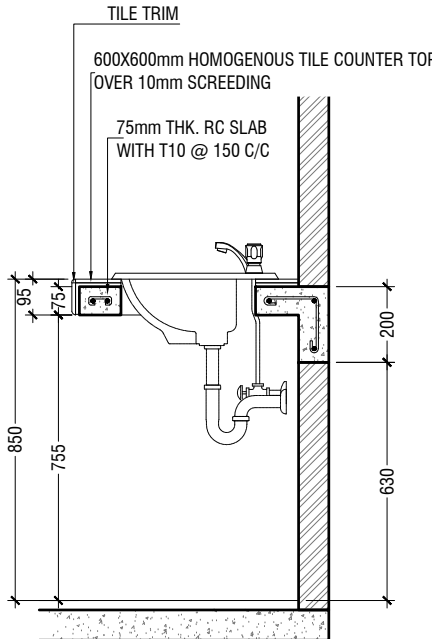
TOILET FOR PERSONS WITH DISABILITIES PLAN

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



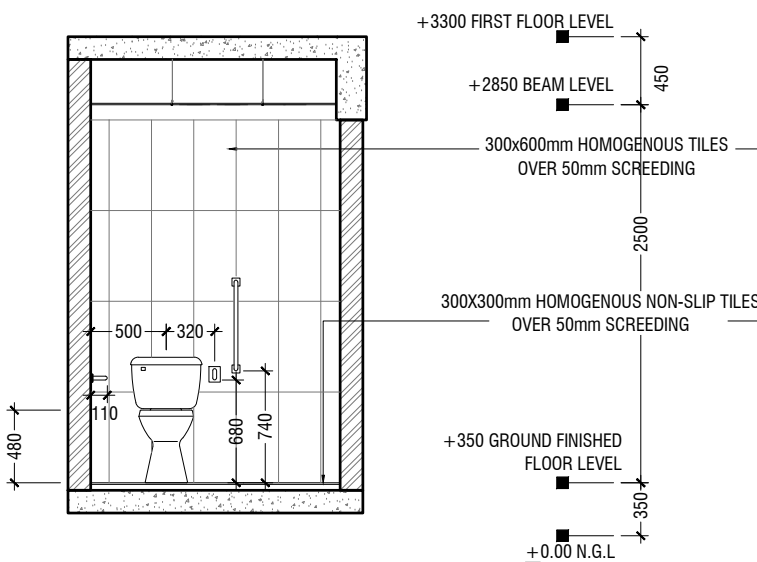
SECTION A1-A1

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



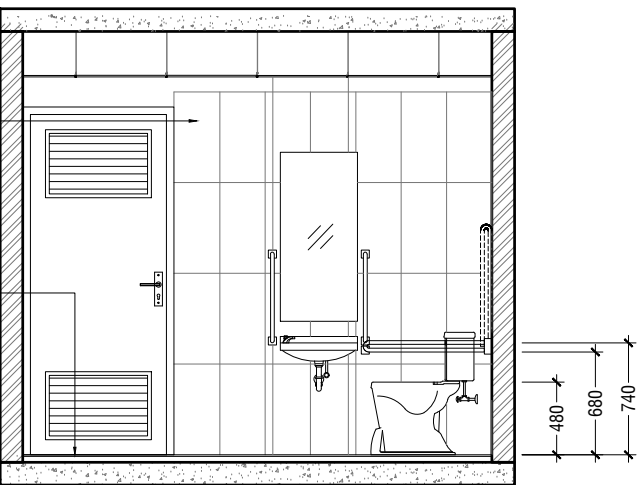
COUNTER TOP DETAILS

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1



SECTION B1-B1

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



SECTION B2-B2

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



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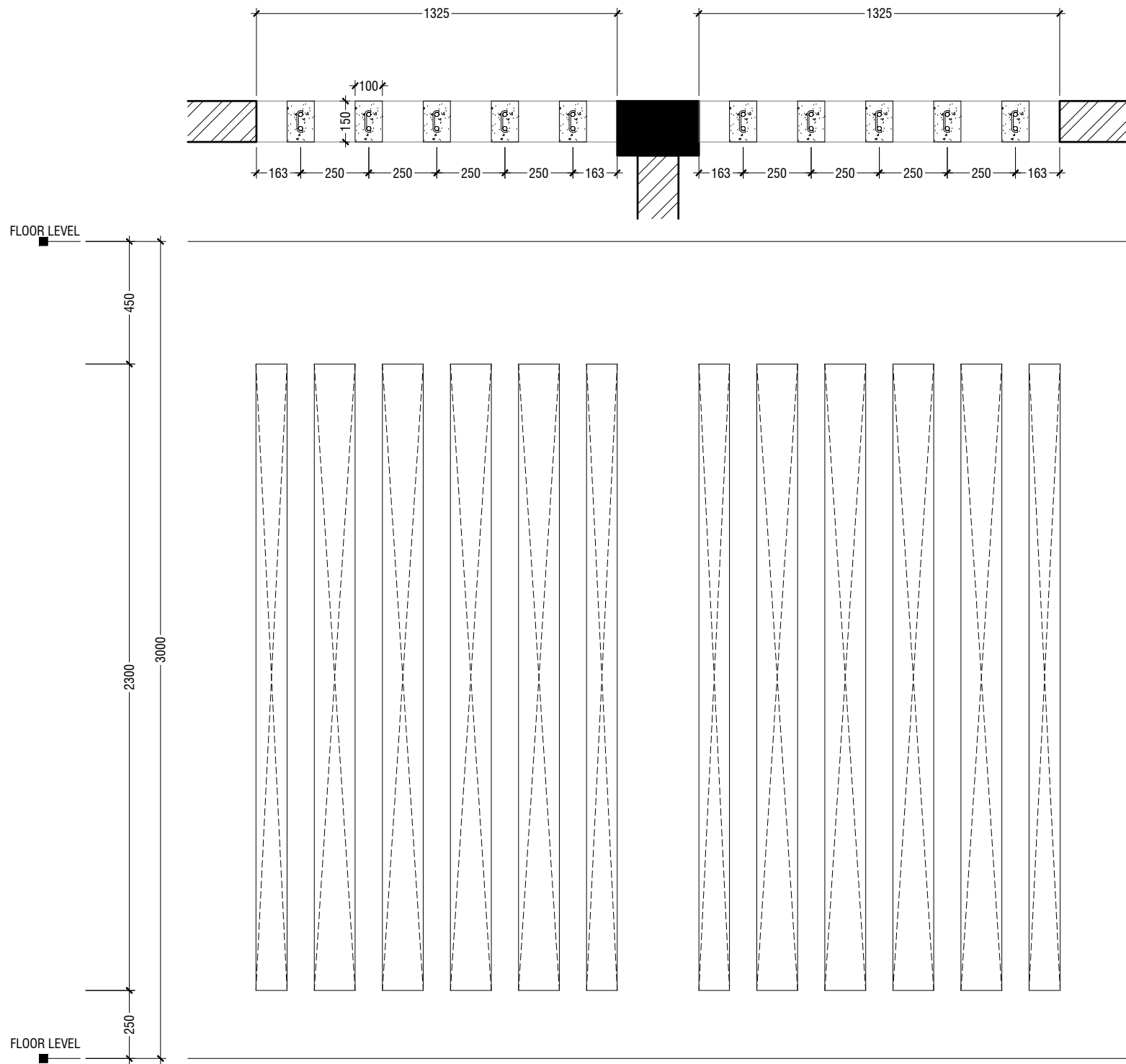
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Engineer : Ahmed Zuhail Zaem
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Title: Toilet Details

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RC FIN DETAILS

SCALE 1:20



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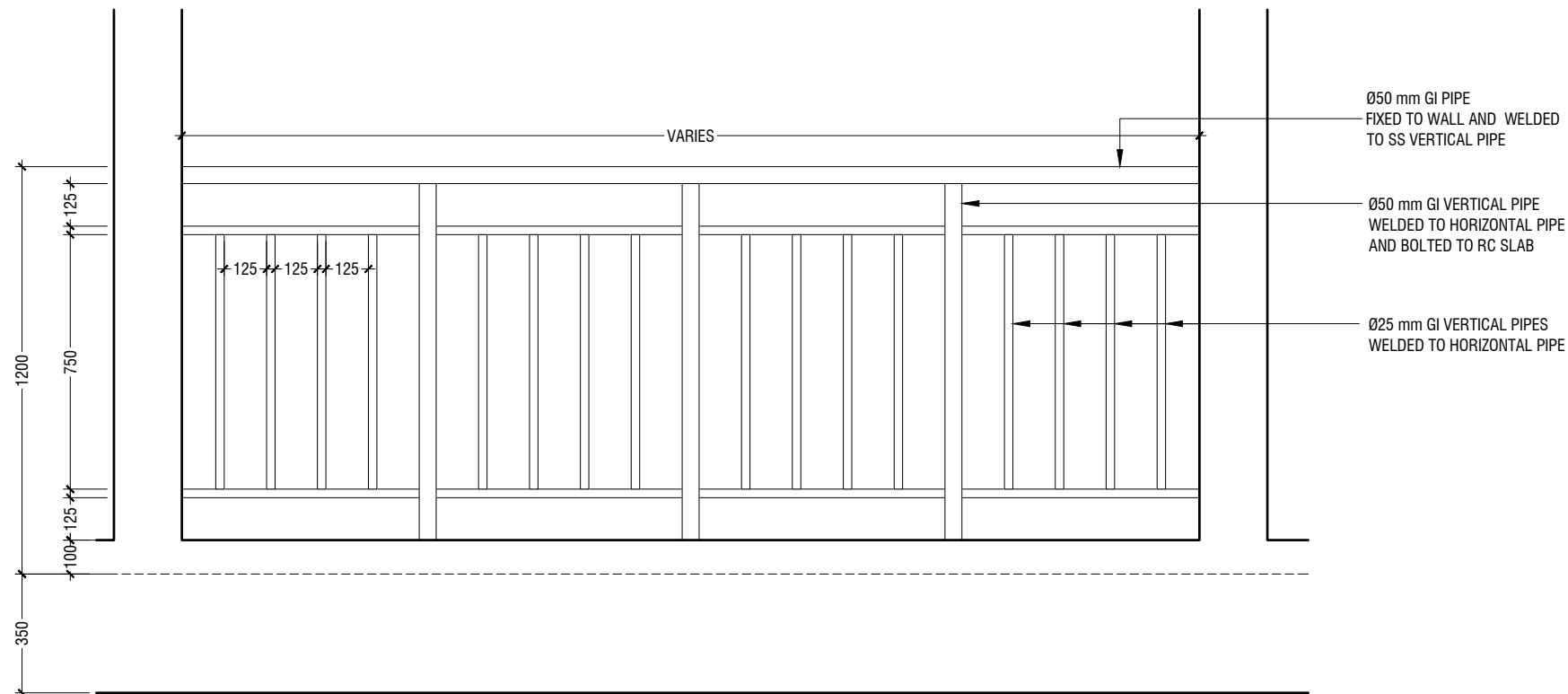
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Engineer : Ahmed Zuhail Zaeem
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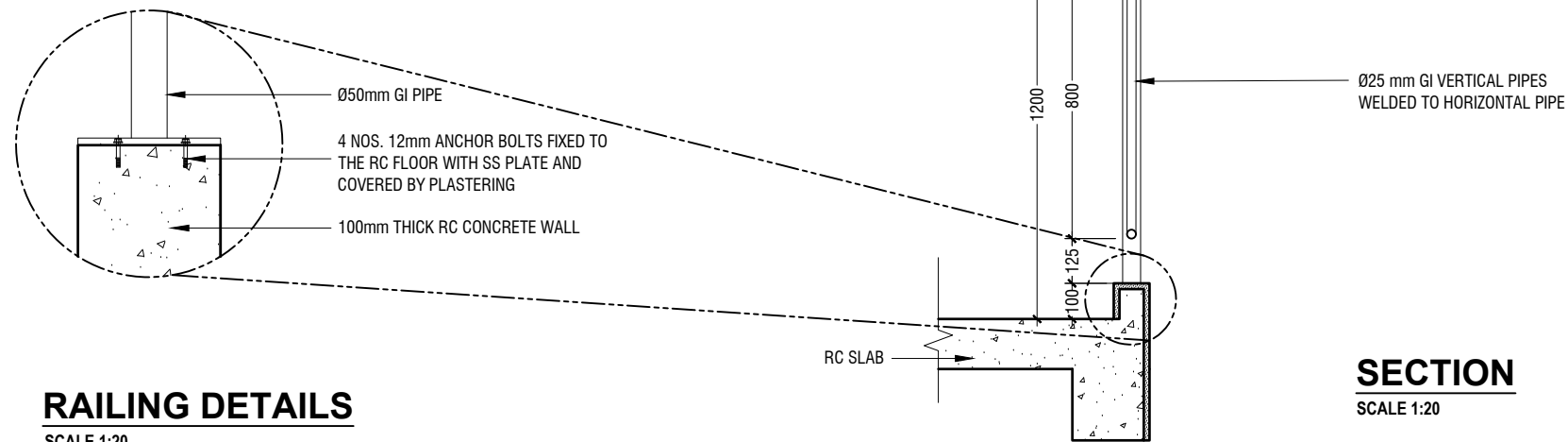
Title: RC Fin Details

Page: A-19/21



ELEVATION

SCALE 1:20



RAILING DETAILS

SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

SECTION

SCALE 1:20



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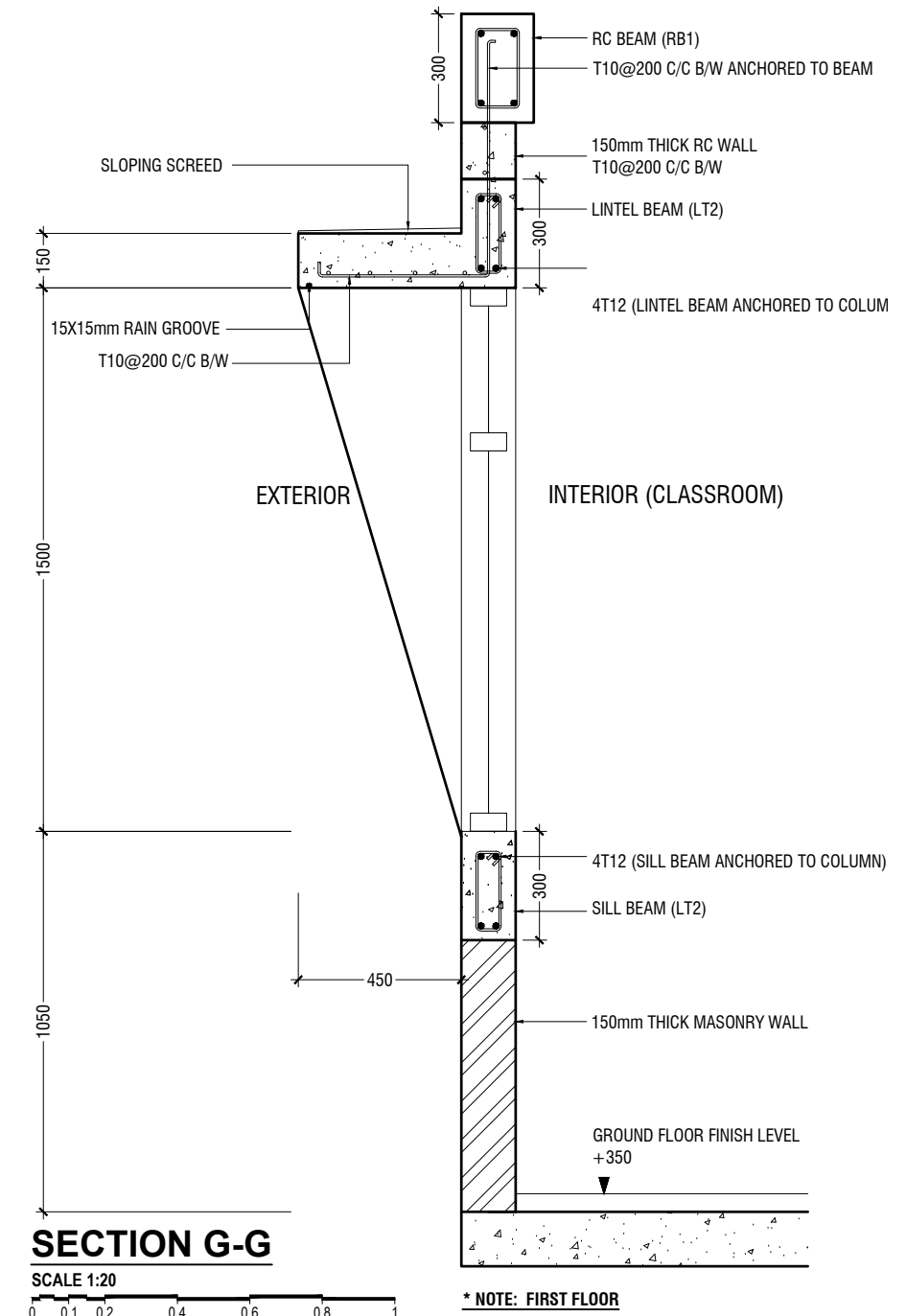
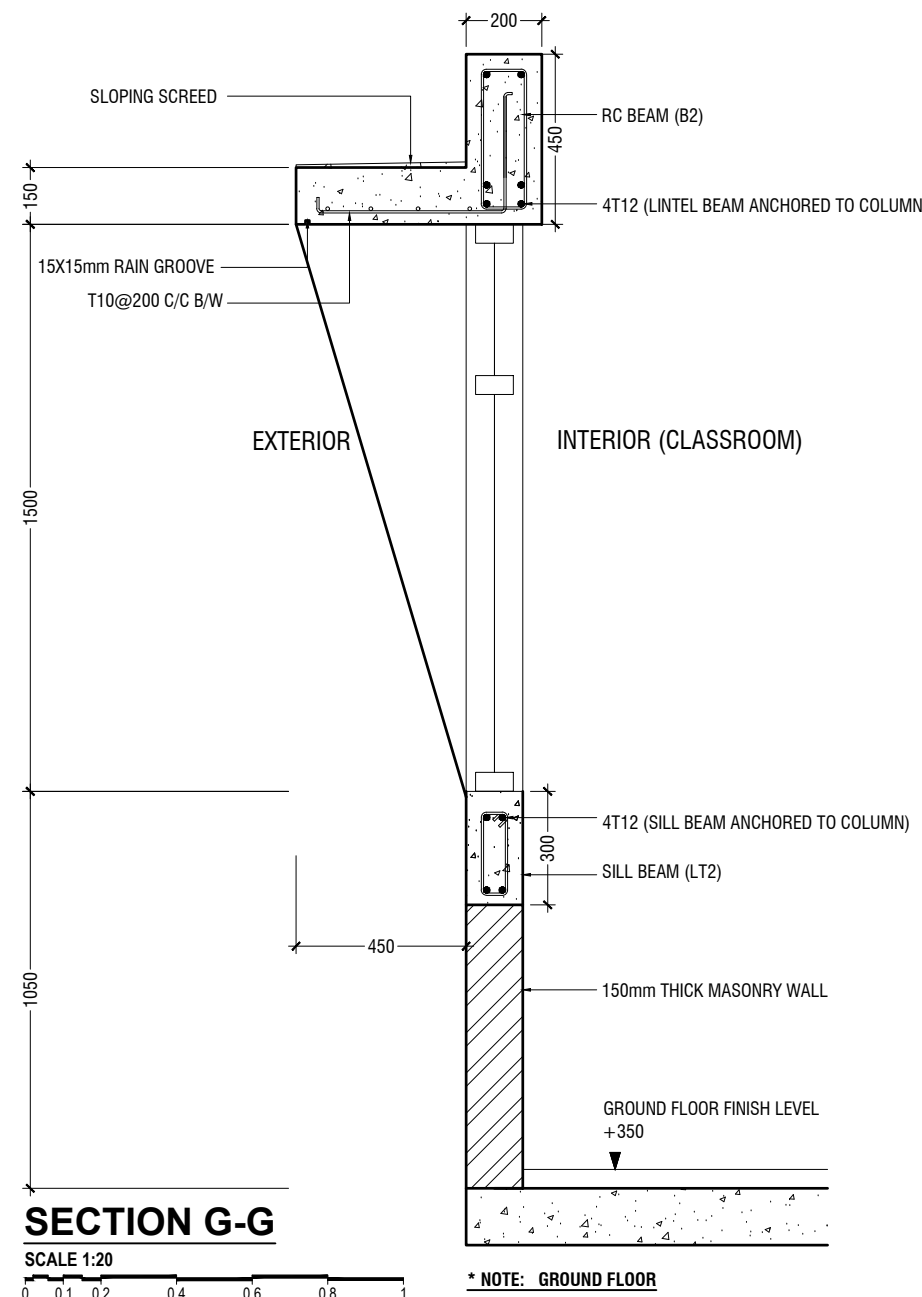
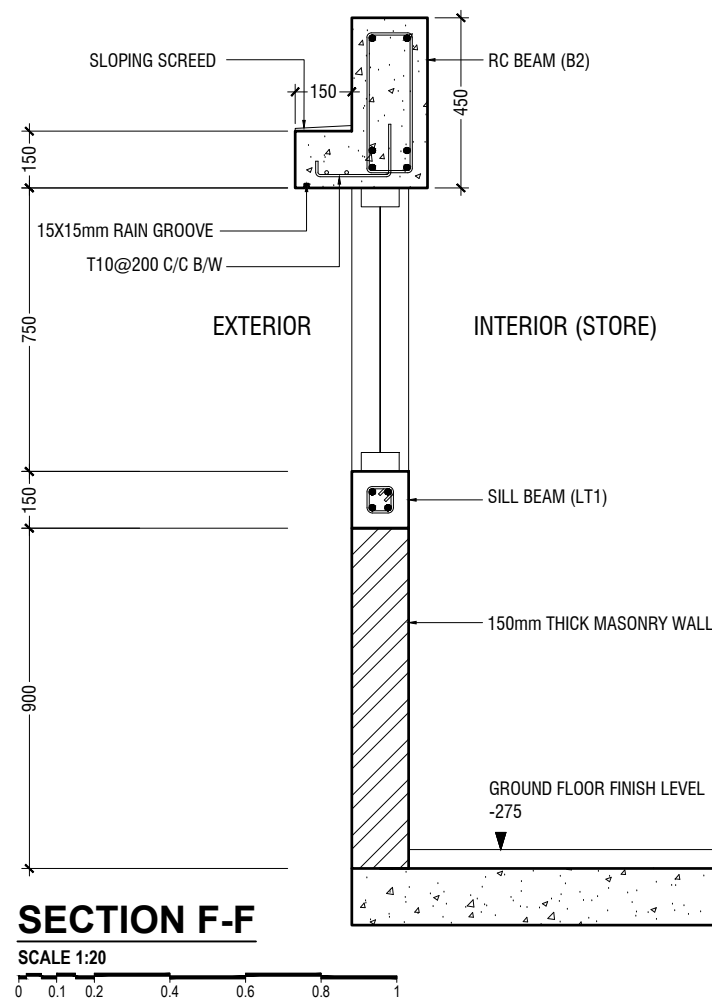
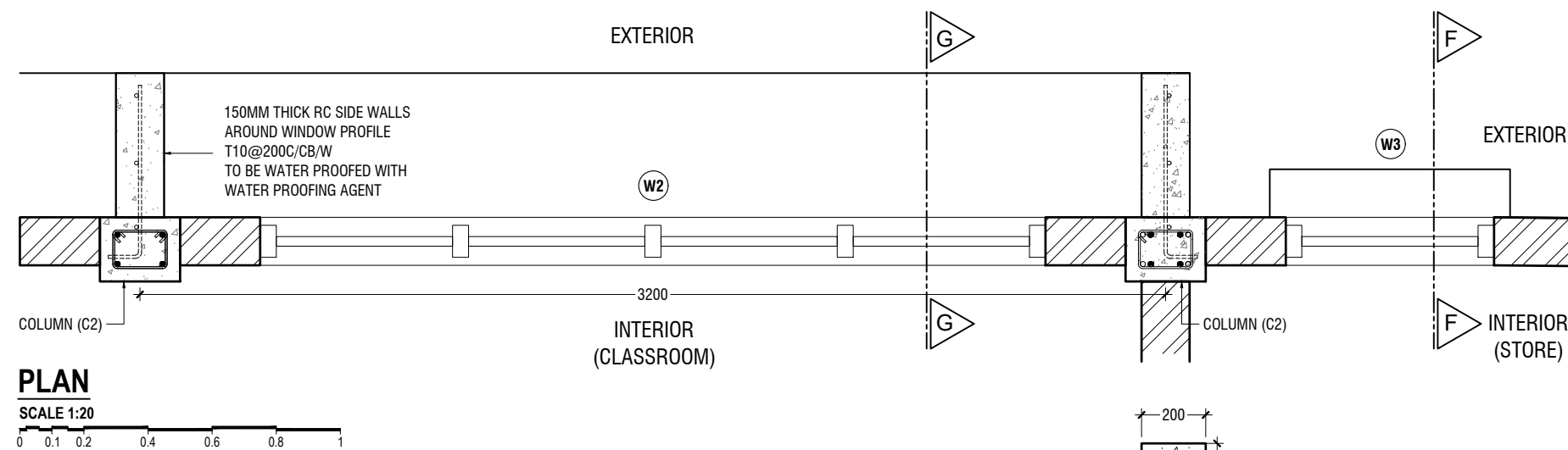
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Project Number: RI/2017/012
Date: June 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

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Title: Railing Details

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RC WALL DETAILS
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



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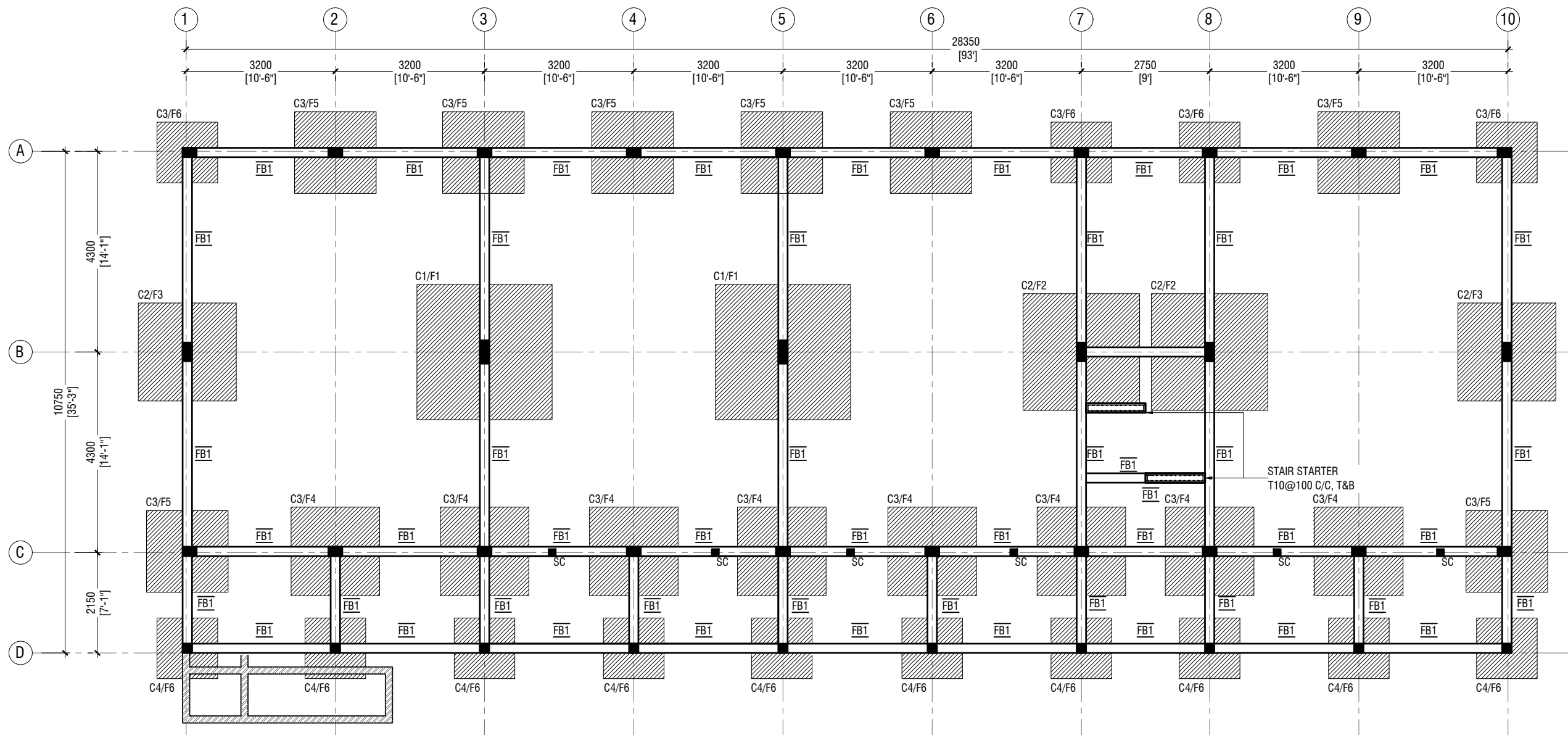
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Project Number: RI/2017/012
Date: June 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaem
Drawn by : Razana Amir
Services : Aishath Ahmed
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Title: RC Wall Details

Page: A-21/21



FOUNDATION PLAN

SCALE 1:100



NOTE:

COLUMN SIZES

C1	: 200 x 500 mm
C2	: 200 x 400 mm
C3	: 200 x 300 mm
C4	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 35-40mm

FOUNDATION PAD SIZES

	DIMENSION	REINFORCEMENT
F1	2900 x 2900 x 550	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2500 x 2500 x 500	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F3	2100 x 2100 x 450	T12@125 C/C B/W (B)
F4	1900 x 1900 x 450	T12@150 C/C B/W (B)
F5	1750 x 1750 x 450	T12@150 C/C B/W (B)
F6	1300 x 1300 x 450	T12@150 C/C B/W (B)

FOUNDATION DEPTH : 1200mm BELOW GROUND LEVEL

ALL FOOTINGS ARE TO BE LAID ON TOP OF 50mm THICK LEAN CONCRETE
APPLY WATER PROOFING TO SUBSTRUCTURE (BELOW GROUND ELEMENTS)

TIE BEAM SIZES

FB1	: 200 x 450 mm
COVER	: 50mm

GROUND SLAB : 150mm THK RC SLAB ON FILL
REINFORCED WITH T10@200 C/C BW

MIX RATIO = 1:2:3 (CEMENT : SAND : AGGREGATE)

 -150mm THK. SOLID MASONRY BLOCK WALL

RAMP SLAB : 150mm THK RC SLAB ON FILL
REINFORCED WITH T10@250 C/C BW



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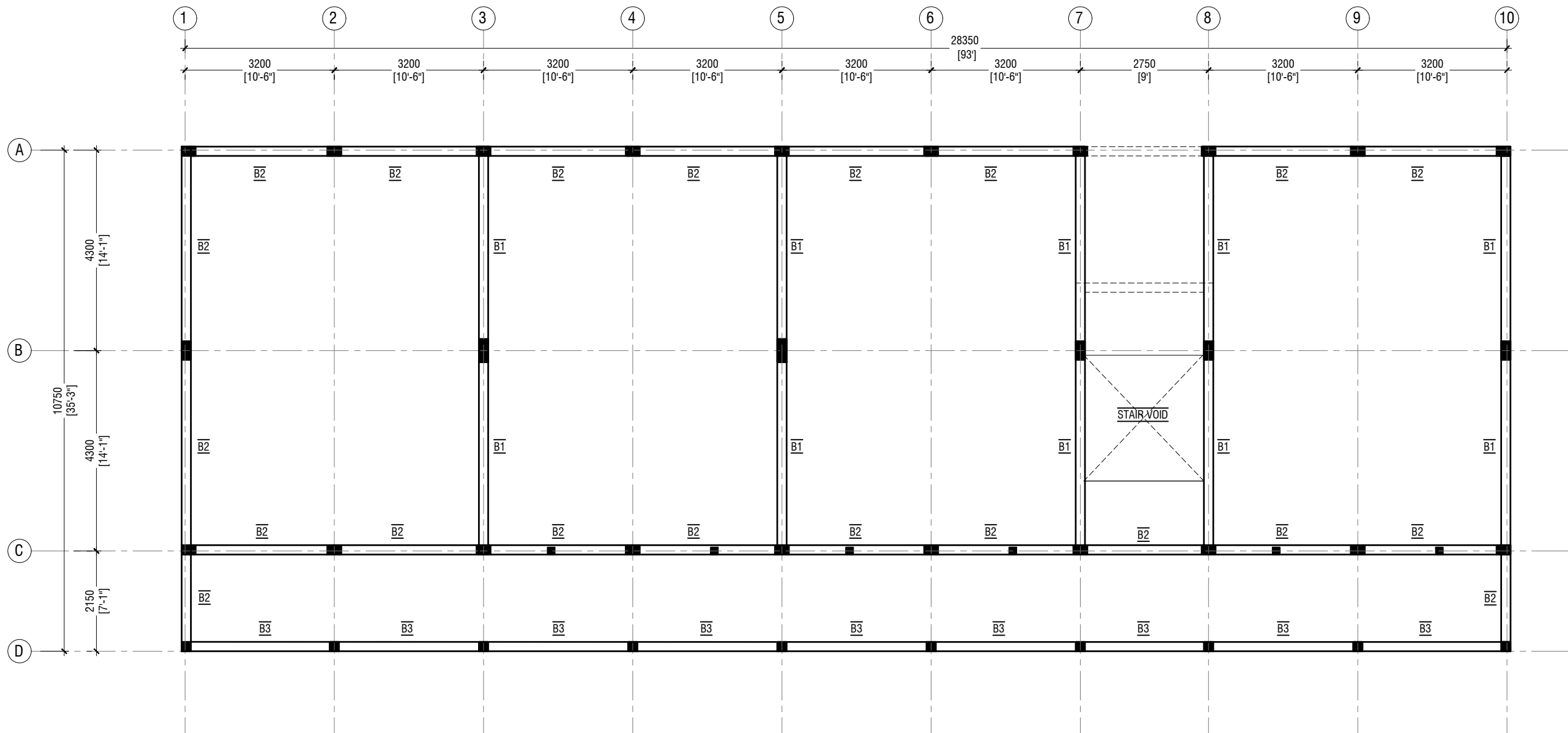
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Project Number: RI/2017/012
Date: June 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

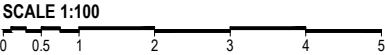
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Title: Foundation Plan

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FIRST FLOOR BEAM PLAN

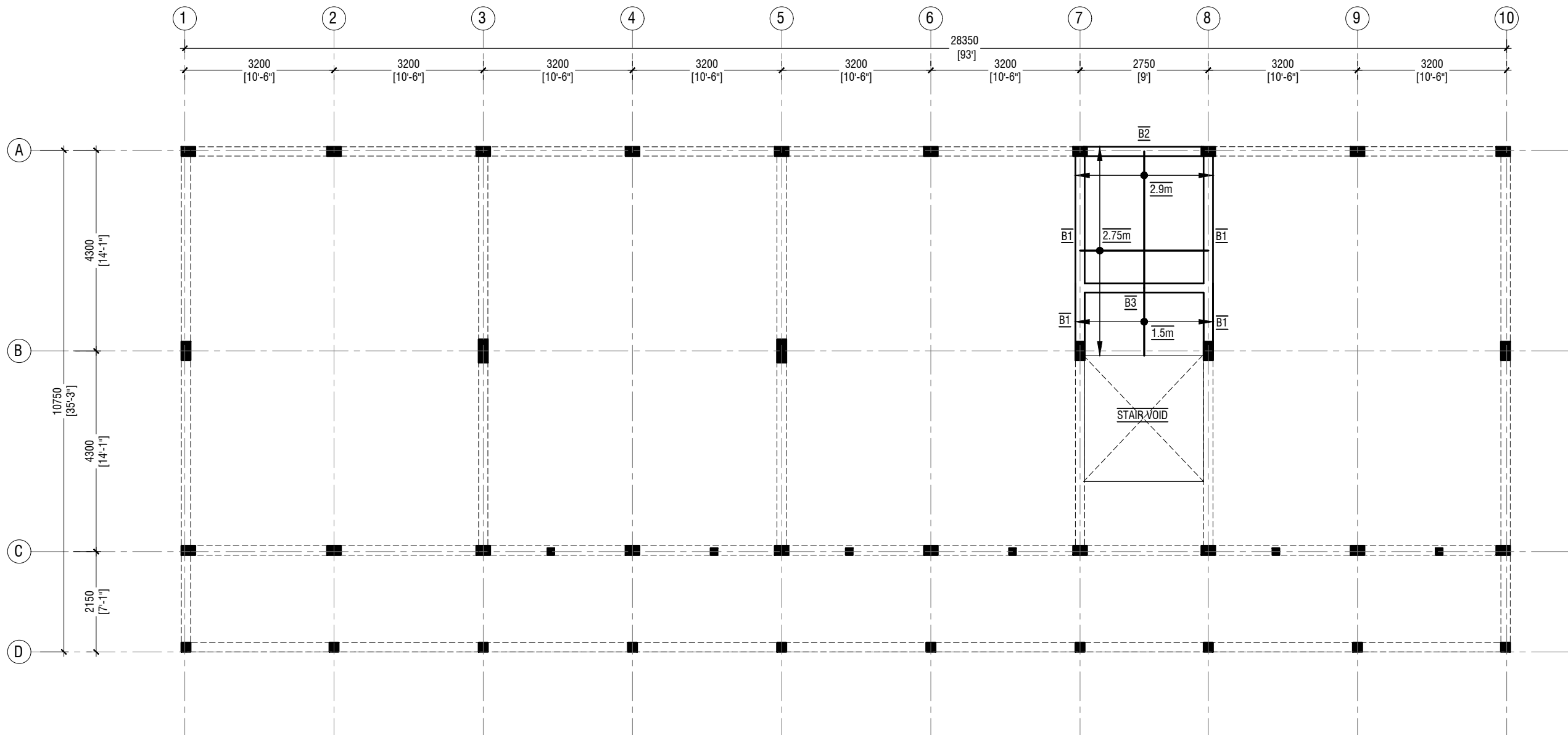


NOTE:

COLUMN SIZES	
C1	: 200 x 500 mm
C2	: 200 x 400 mm
C3	: 200 x 300 mm
C4	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 35-40mm

BEAM SIZES	
B1	: 200x550 mm
B2	: 200x450 mm
B3	: 200x450 mm
COVER	: 35mm

MIX RATIO = 1:2:3 (CEMENT : SAND : AGGREGATE)	
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STORE / HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN (+1850)

SCALE 1:100

NOTE:

COLUMN SIZES

C1	: 200 x 500 mm
C2	: 200 x 400 mm
C3	: 200 x 300 mm
C4	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 35-40mm

BEAM SIZES

B1	: 200x550 mm
B2	: 200x450 mm
B3	: 200x450 mm
COVER	: 35mm

MIX RATIO = 1:2:3 (CEMENT : SAND : AGGREGATE)

SLAB THICKNESS:	150mm
BOTTOM REINFORCEMENT:	T10@150C/C B/W (NOT SHOWN)
TOP REINFORCEMENT:	T10@150C/C (AS SHOWN, UNLESS STATED)
TOP DISTRIBUTION STEEL:	T10@150C/C (UNLESS STATED)



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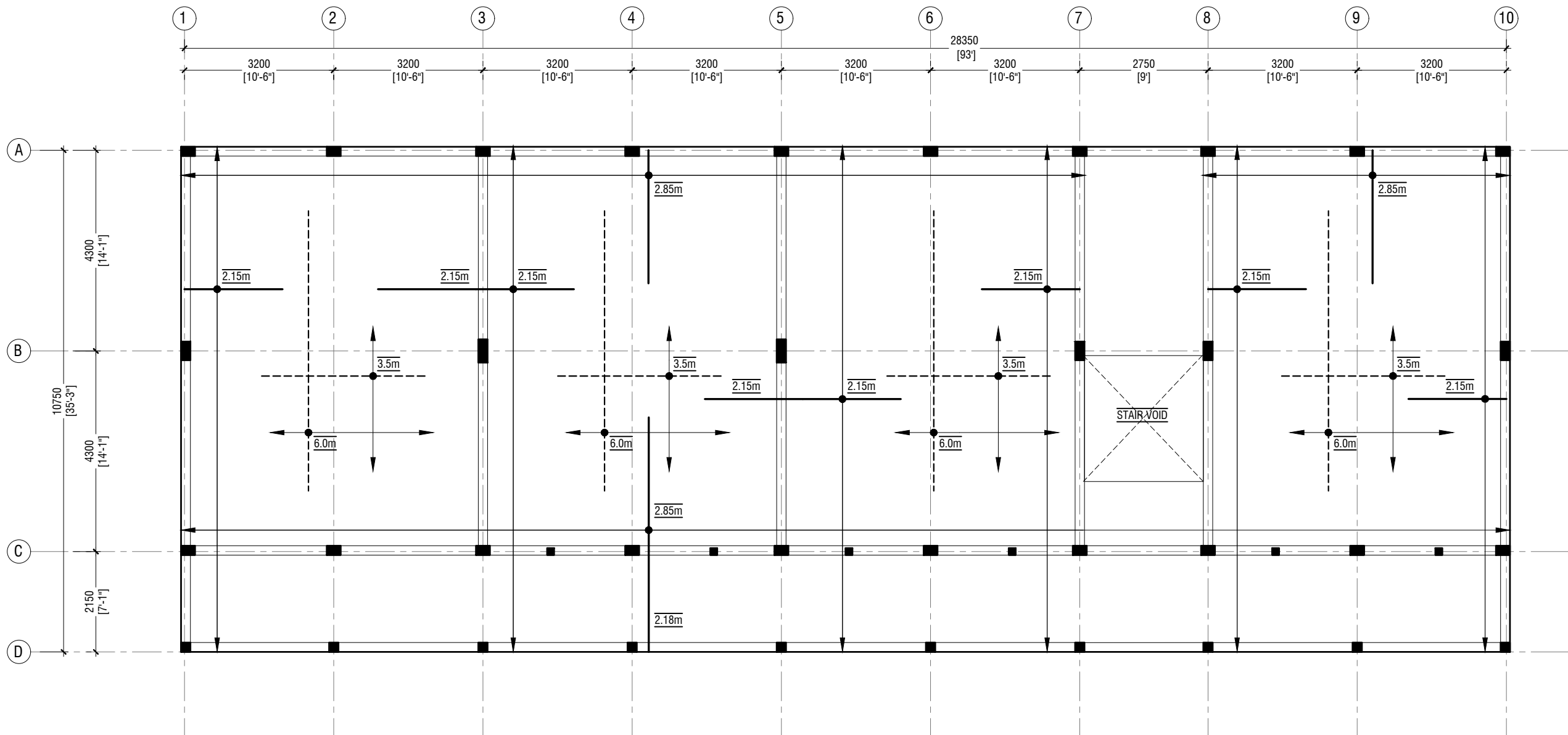
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Client: Ministry of Education

Project Number: RI/2017/012
Date: June 2019
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Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

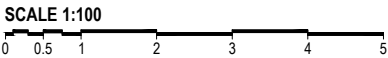
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Title: Store / Half Landing
Beam & Slab Rein. Plan

Page: S-03/10



FIRST FLOOR SLAB REINFORCEMENT PLAN



NOTE

	SLAB THICKNESS:	175mm
	BOTTOM REINFORCEMENT:	T12@150C/C B/W (NOT SHOWN)
	BOTTOM ADDITIONAL REINFORCEMENT:	T12@150C/C B/W (AS SHOWN)
	TOP REINFORCEMENT:	T12@150C/C (AS SHOWN, UNLESS STATED)
	TOP DISTRIBUTION STEEL:	T12@150C/C (UNLESS STATED)



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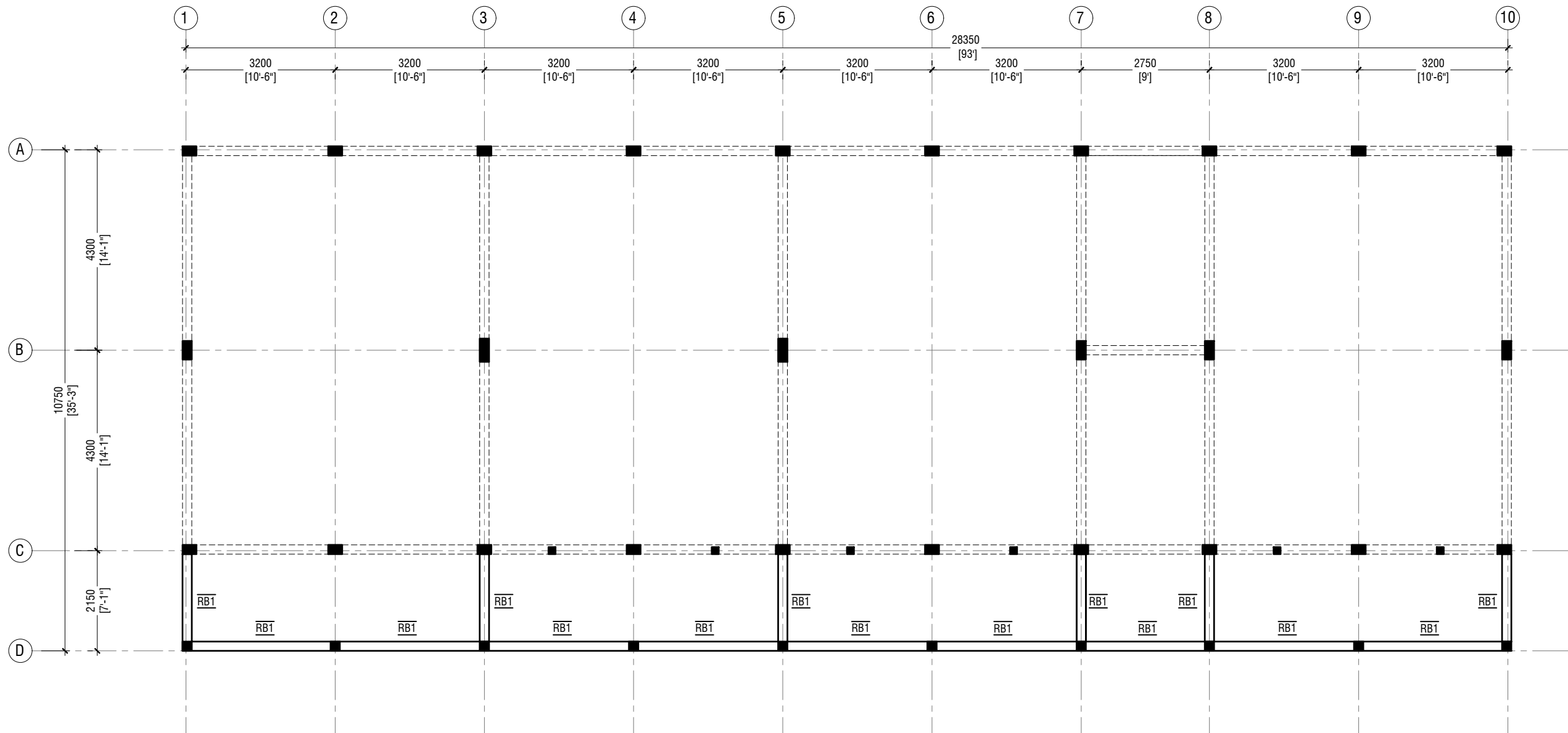
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Engineer : Ahmed Zuhail Zaeem
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Services : Aishath Ahmed
Interior : -

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Title: First Floor
Slab Rein. Plan

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ROOF BEAM PLAN - 1 @6.15m FROM F.F.L

SCALE 1:100



NOTE:

COLUMN SIZES

C1	: 200 x 500 mm
C2	: 200 x 400 mm
C3	: 200 x 300 mm
C4	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 35-40mm

BEAM SIZES

RB1	: 200x300 mm
COVER	: 35mm

MIX RATIO = 1:2:3 (CEMENT : SAND : AGGREGATE)



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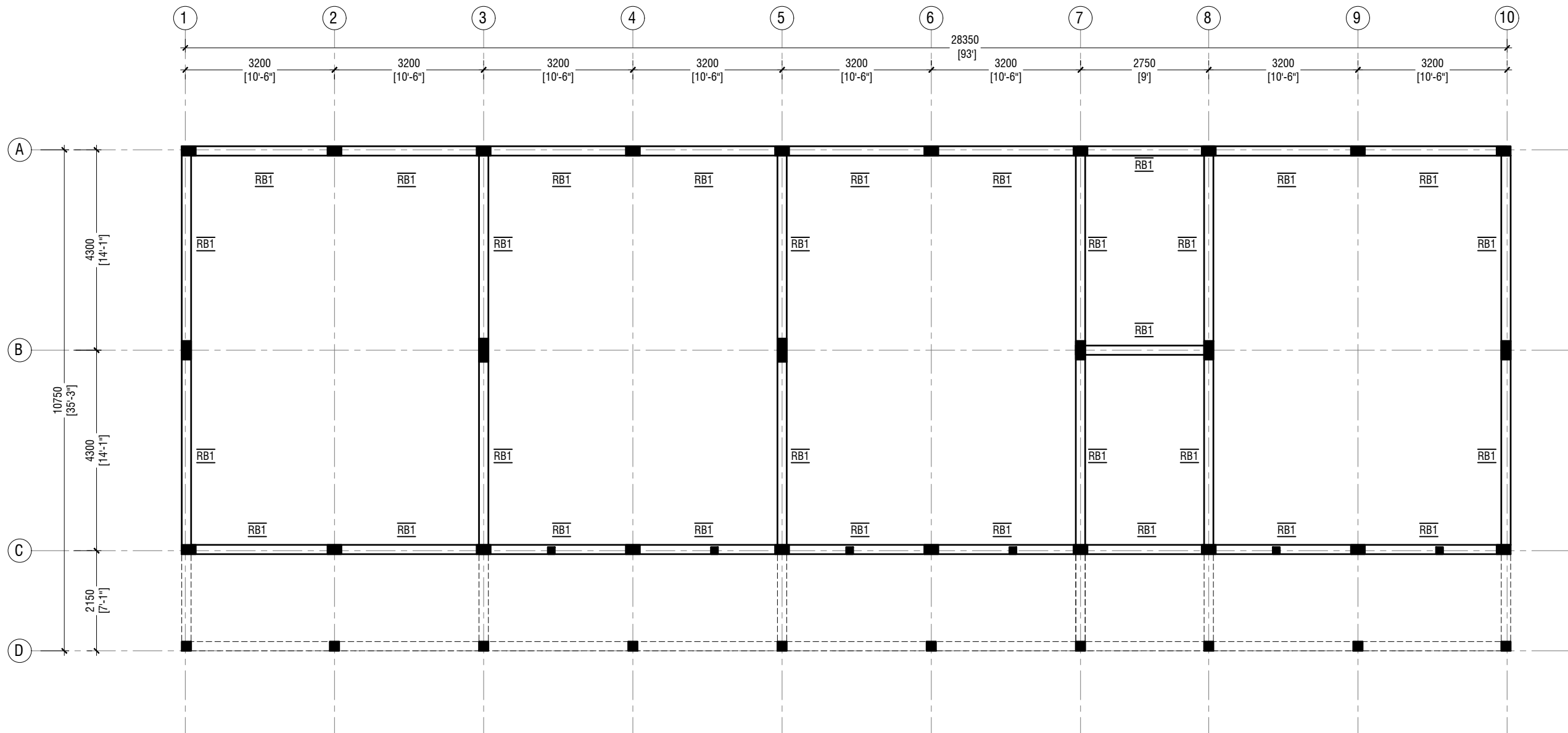
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Client: Ministry of Education

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Date: June 2019
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Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

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Title: Roof Beam Plan - 1
(+6150)

Page: S-05/10



ROOF BEAM PLAN - 2 @6.706 FROM F.F.L

SCALE 1:100



NOTE:

COLUMN SIZES

C1	: 200 x 500 mm
C2	: 200 x 400 mm
C3	: 200 x 300 mm
C4	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 35-40mm

BEAM SIZES

RB1	: 200x300 mm
COVER	: 35mm

MIX RATIO = 1:2:3 (CEMENT : SAND : AGGREGATE)



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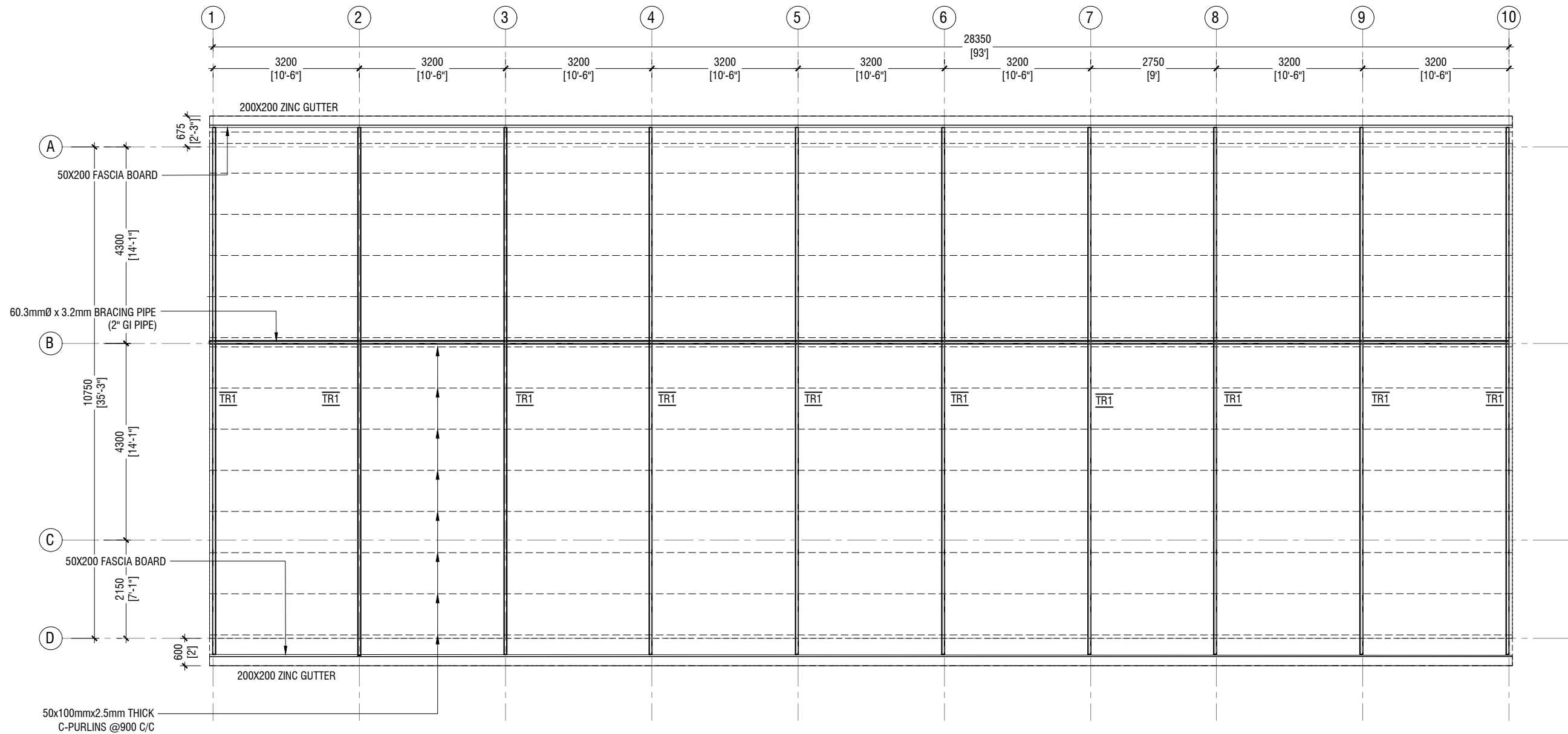
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Project Number: RI/2017/012
Date: June 2019
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Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

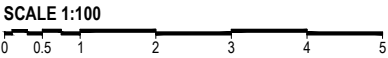
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Title: Roof Beam Plan - 2
(+6706)

Page: S-06/10



ROOF TRUSS & FRAMING PLAN



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Client: Ministry of Education

Project Number: RI/2017/012
Date: June 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

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Title: Roof Truss & Framing Plan

Page: S-07/10

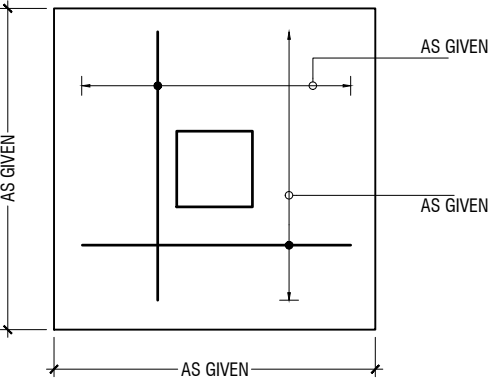
	DIMENSION	REINFORCEMENT
F1	2900 x 2900 x 550	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2500 x 2500 x 500	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F3	2100 x 2100 x 450	T12@125 C/C B/W (B)
F4	1900 x 1900 x 450	T12@150 C/C B/W (B)
F5	1750 x 1750 x 450	T12@150 C/C B/W (B)
F6	1300 x 1300 x 450	T12@150 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

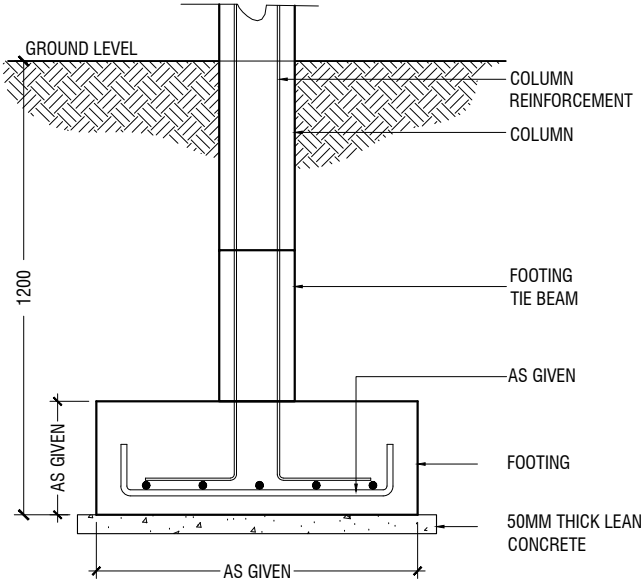
NOTE:-
COVER TO FOUNDATION = 50mm
COVER TO COLUMNS = 40mm
COVER TO BEAMS = 35mm
LAPS = Ø OF BAR x 45
BEAMS @END SUPPORT = Ø OF BAR x 12

MIX RATIO = 1:2:3 (CEMENT : SAND : AGGREGATE)

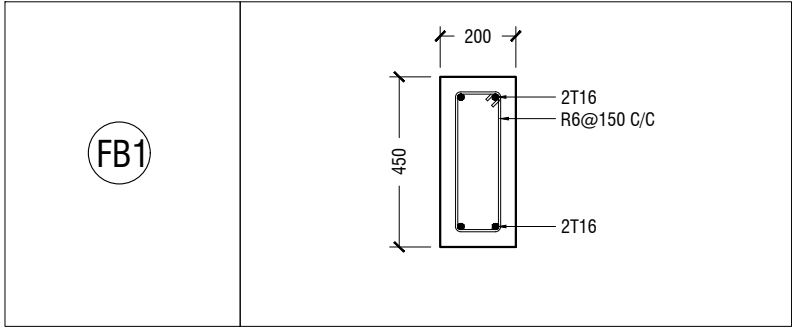
FOUNDATION PADS



PLAN



SECTION



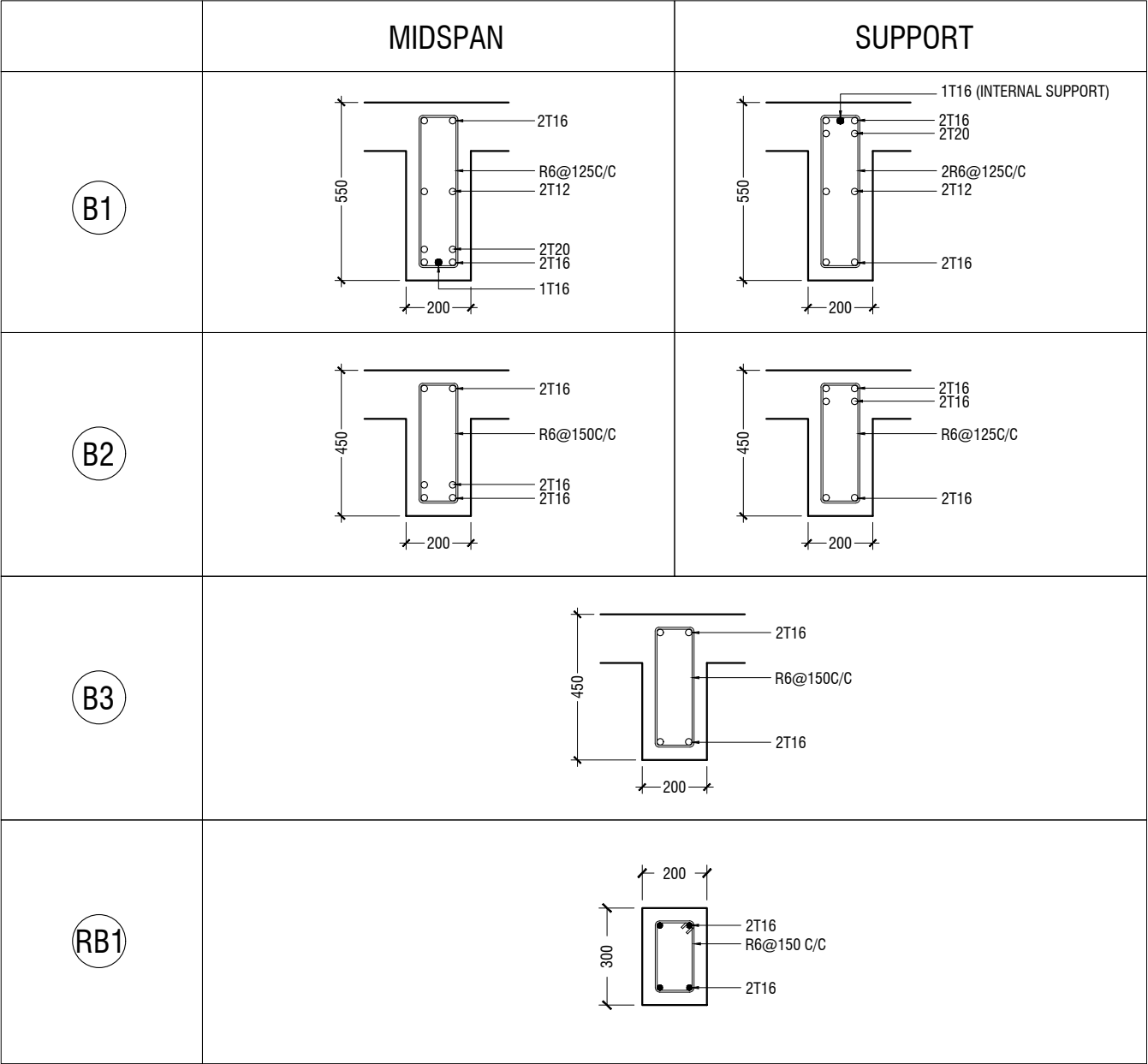
FOUNDATION DETAILS

	GROUND & 1ST FLOOR
C1	<p>Column detail C1: 500mm width, 200mm height. Reinforcement: 10T20, 2R6@175c/c, R6 HOOK@150c/c.</p>
C2	<p>Column detail C2: 400mm width, 200mm height. Reinforcement: 8T20, 2T12, 2R6@150c/c, R6 HOOK@150c/c.</p>
C3	<p>Column detail C3: 300mm width, 200mm height. Reinforcement: 6T16, R6@150c/c, R6 HOOK@150c/c.</p>
C4	<p>Column detail C4: 200mm width, 200mm height. Reinforcement: 4T16, R6@150c/c.</p>

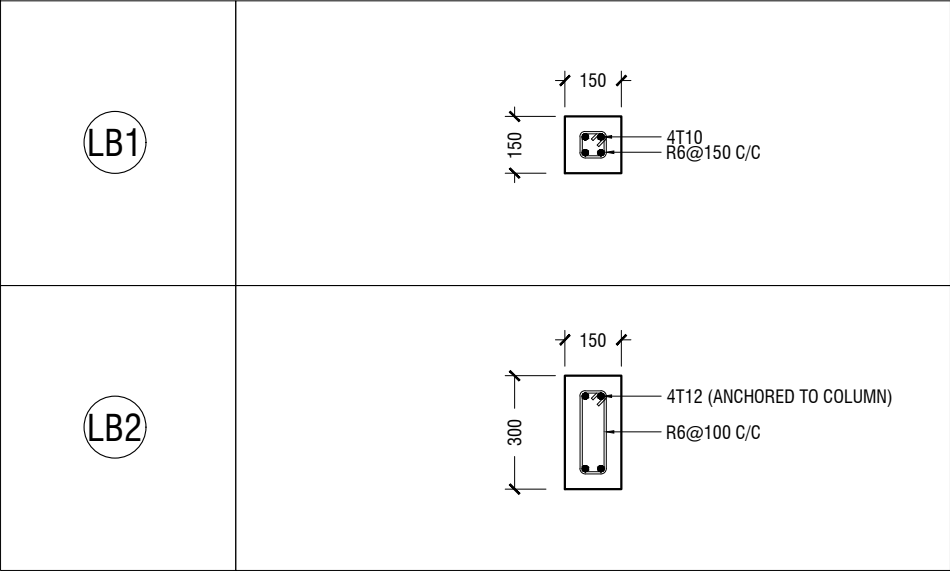
COLUMN DETAIL

STRUCTURAL DETAILS - 1

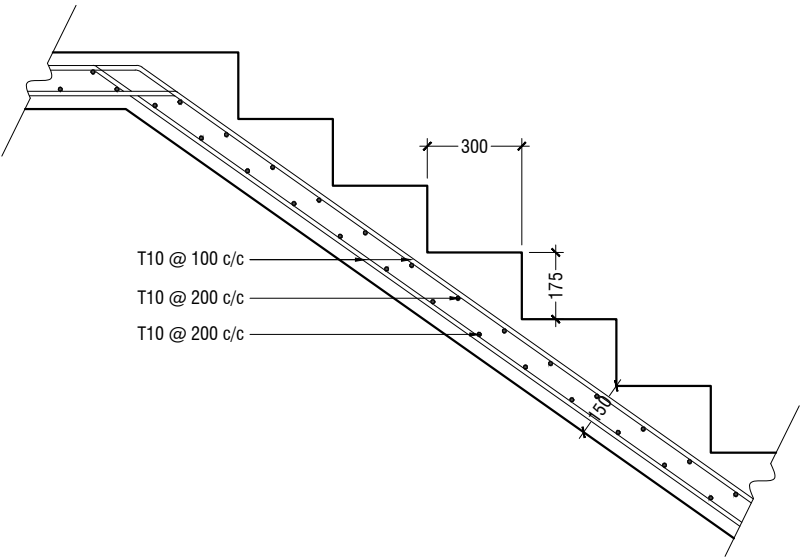




BEAM DETAIL



LINTELS OVER ALL DOORS, WINDOWS
(THAT DOES NOT RISE TO ROOF BEAM LEVEL)
LT2 FOR WINDOW (W2) ONLY



MAIN STAIRCASE REINFORCEMENT DETAIL

STRUCTURAL DETAILS - 2

