

Proposed 06 Classroom at
S.Atoll School, Hulhumedhoo
(03 Storey)

ARCHITECTURAL & STRUCTURAL DRAWINGS

Client: Ministry of Education

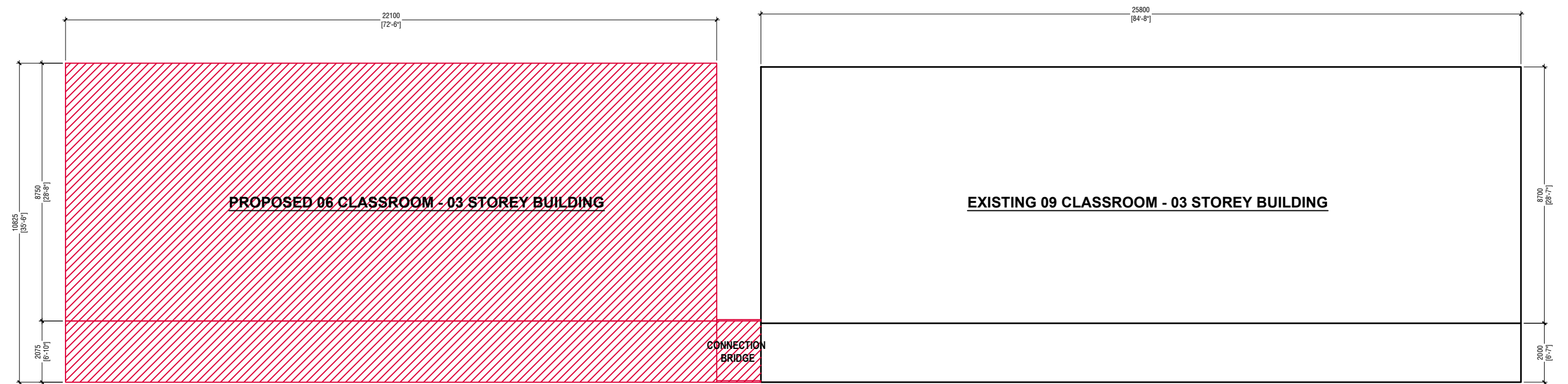


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3rd floor, H. Azum, Ammeenemagu, Male'

TABLE OF CONTENTS

DRAWING No.	TITLE	REVISION No.	DATE	REMARKS
A R C H I T E C T U R A L		---	---	---
A - 01 /22	SITE PLAN	---	---	---
A - 02 /22	GROUND FLOOR PLAN	---	---	---
A - 03 /22	FIRST - SECOND FLOOR PLAN	---	---	---
A - 04 /22	ROOF PLAN	---	---	---
A - 05 /22	ELEVATION E1	---	---	---
A - 06 /22	ELEVATION E2	---	---	---
A - 07 /22	SECTION X-X	---	---	---
A - 08 /22	SECTION Y-Y	---	---	---
A - 09 /22	DOOR & WINDOW SCHEDULE - 1	---	---	---
A - 10 /22	DOOR & WINDOW SCHEDULE - 2	---	---	---
A - 11 /22	VENTILATION SCHEDULE	---	---	---
A - 12 /22	GROUND FLOOR - FLOOR FINISHES PLAN	---	---	---
A - 13 /22	FIRST - SECOND FLOOR - FLOOR FINISHES PLAN	---	---	---
A - 14 /22	GROUND FLOOR - REFLECTED CEILING PLAN	---	---	---
A - 15 /22	FIRST FLOOR - REFLECTED CEILING PLAN	---	---	---
A - 16 /22	SECOND FLOOR - REFLECTED CEILING PLAN	---	---	---
A - 17 /22	STAIRCASE DETAILS	---	---	---
A - 18 /22	MAIN ENTRANCE RAMP DETAILS	---	---	---
A - 19 /22	TOILET DETAILS	---	---	---
A - 20 /22	RC FIN DETAILS	---	---	---
A - 21 /22	RAILING DETAILS	---	---	---
A - 22 /22	RC WALL DETAILS	---	---	---
S T R U C T U R A L		---	---	---
S - 01 /10	FOUNDATION AND COLUMN LAYOUT PLAN	---	---	---
S - 02 /10	FIRST - SECOND FLOOR BEAM PLAN	---	---	---
S - 03 /10	STORE / HALF LANDING FLOOR BEAM & SLAB REIN. PLAN	---	---	---
S - 04 /10	FIRST - SECOND FLOOR SLAB REINFORCEMENT PLAN	---	---	---
S - 05 /10	ROOF BEAM PLAN - 1 (+9150)	---	---	---
S - 06 /10	ROOF BEAM PLAN - 2 (+9706)	---	---	---
S - 07 /10	ROOF TRUSS AND FRAMING PLAN	---	---	---
S - 08 /10	ROOF TRUSS DETAILS	---	---	---
S - 09 /10	STRUCTURAL DETAILS - 1	---	---	---
S - 10 /10	STRUCTURAL DETAILS - 2	---	---	---



SITE PLAN



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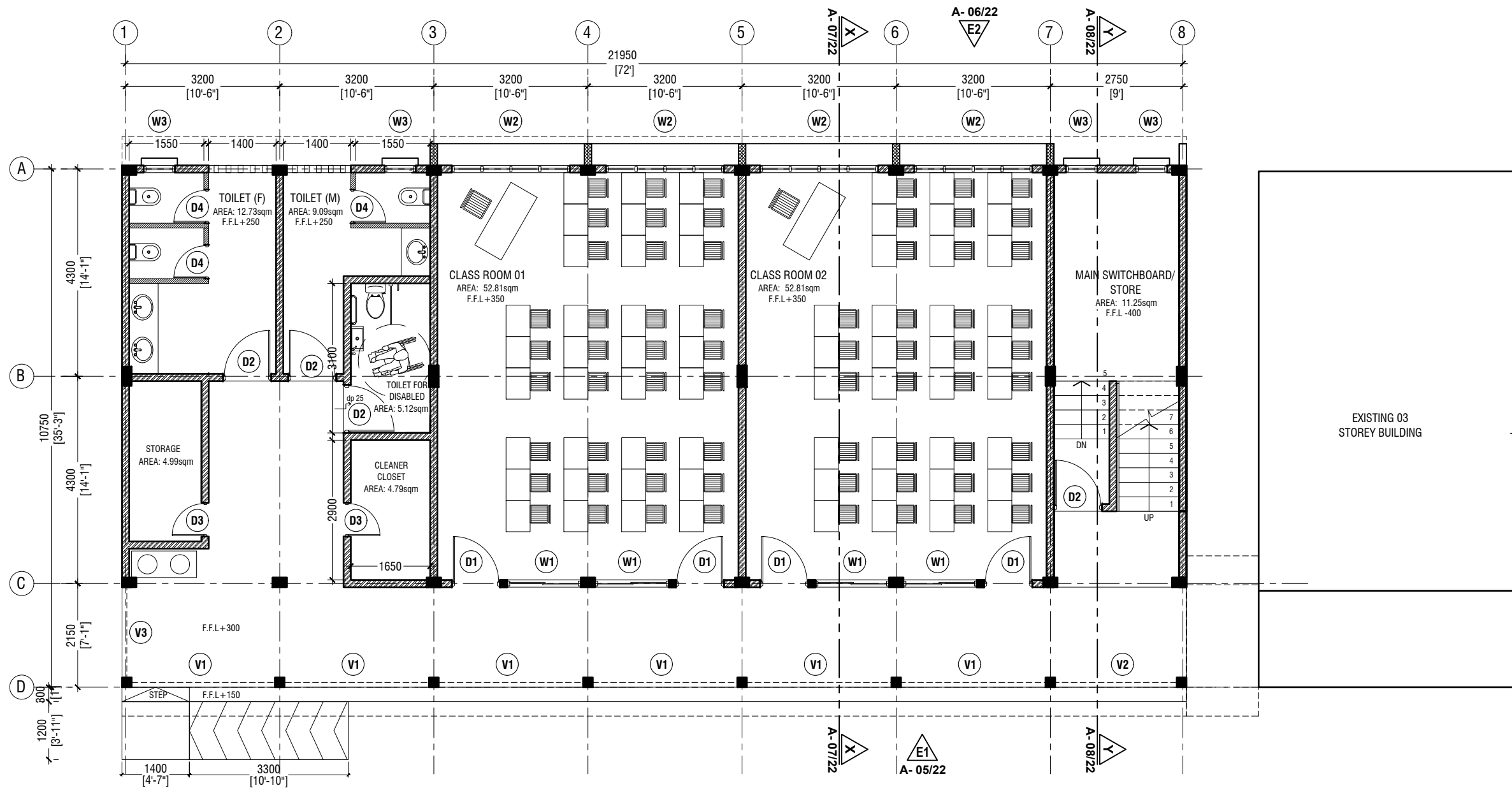
S.Atoll School, Hulhumedhoo - 6 Classroom (3 Storey)
Client: Ministry of Education

Project Number: RI/2017/012
Date: September 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

Page: A-01/22



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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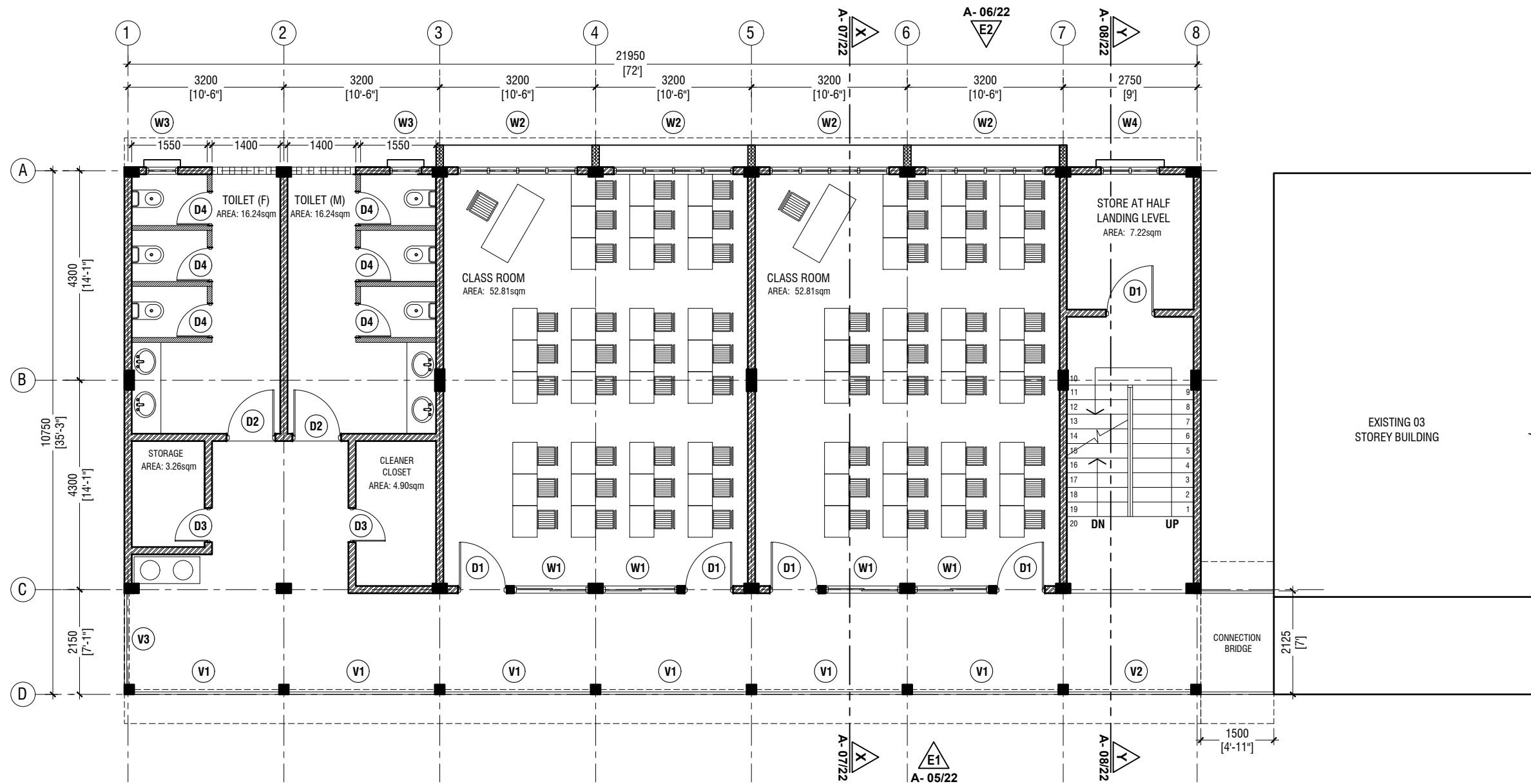
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Services : Aishath Ahmed
Interior : -

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Title: Ground Floor Plan

Page: A-02/22



FIRST - SECOND 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
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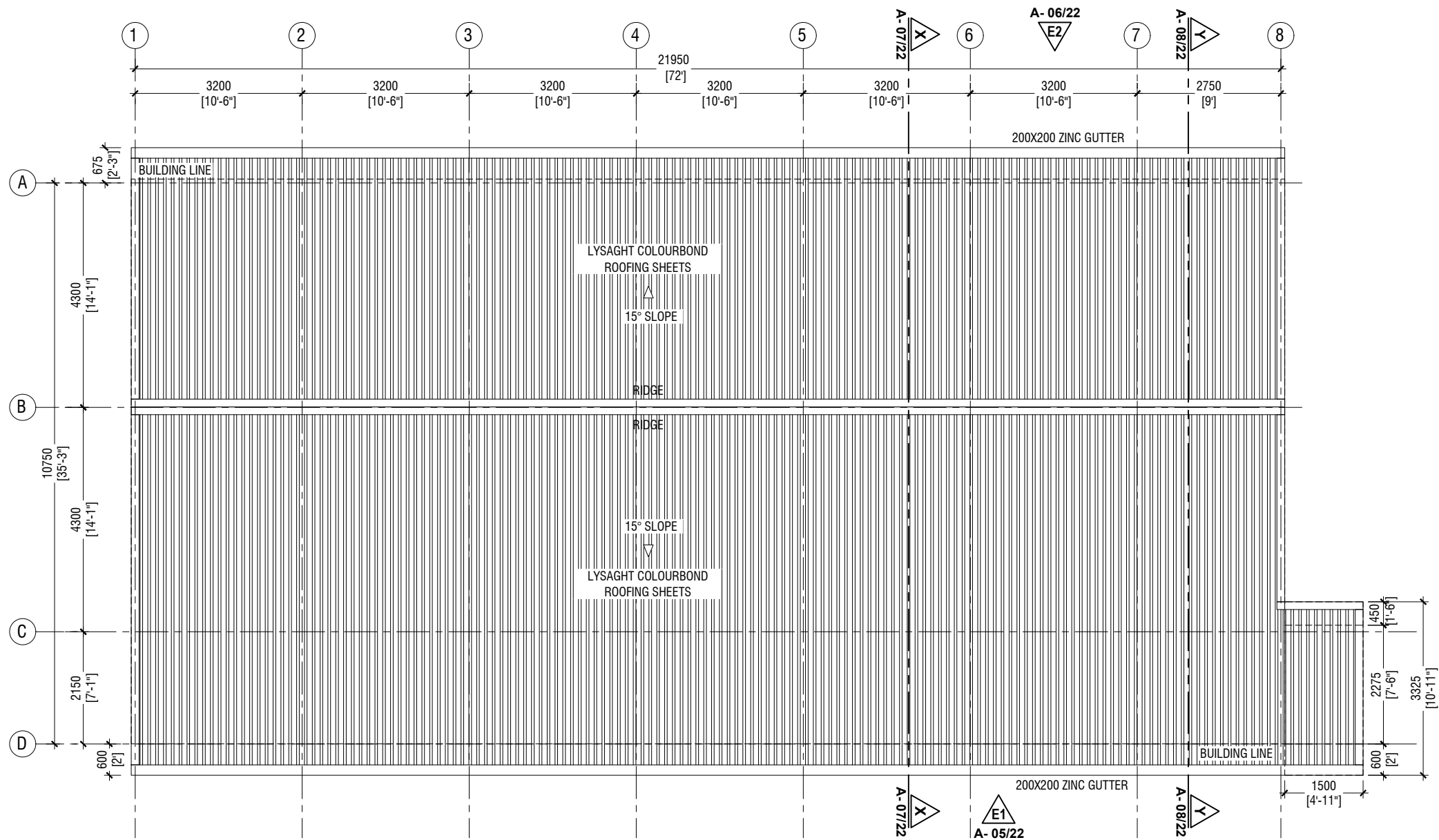
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Interior : -

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Title: First - Second Floor
Plan

Page: A-03/22



ROOF PLAN

SCALE 1:100



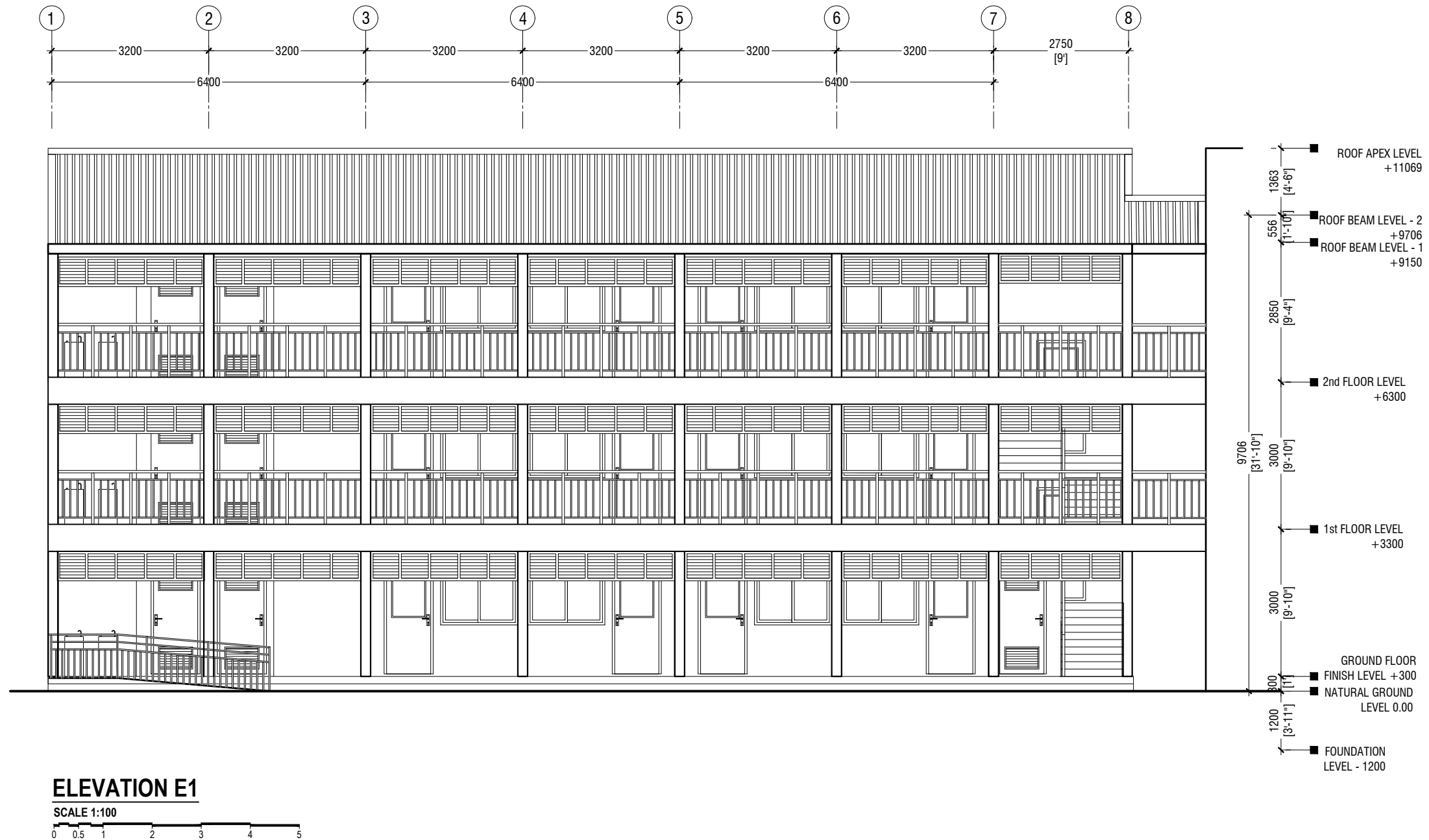
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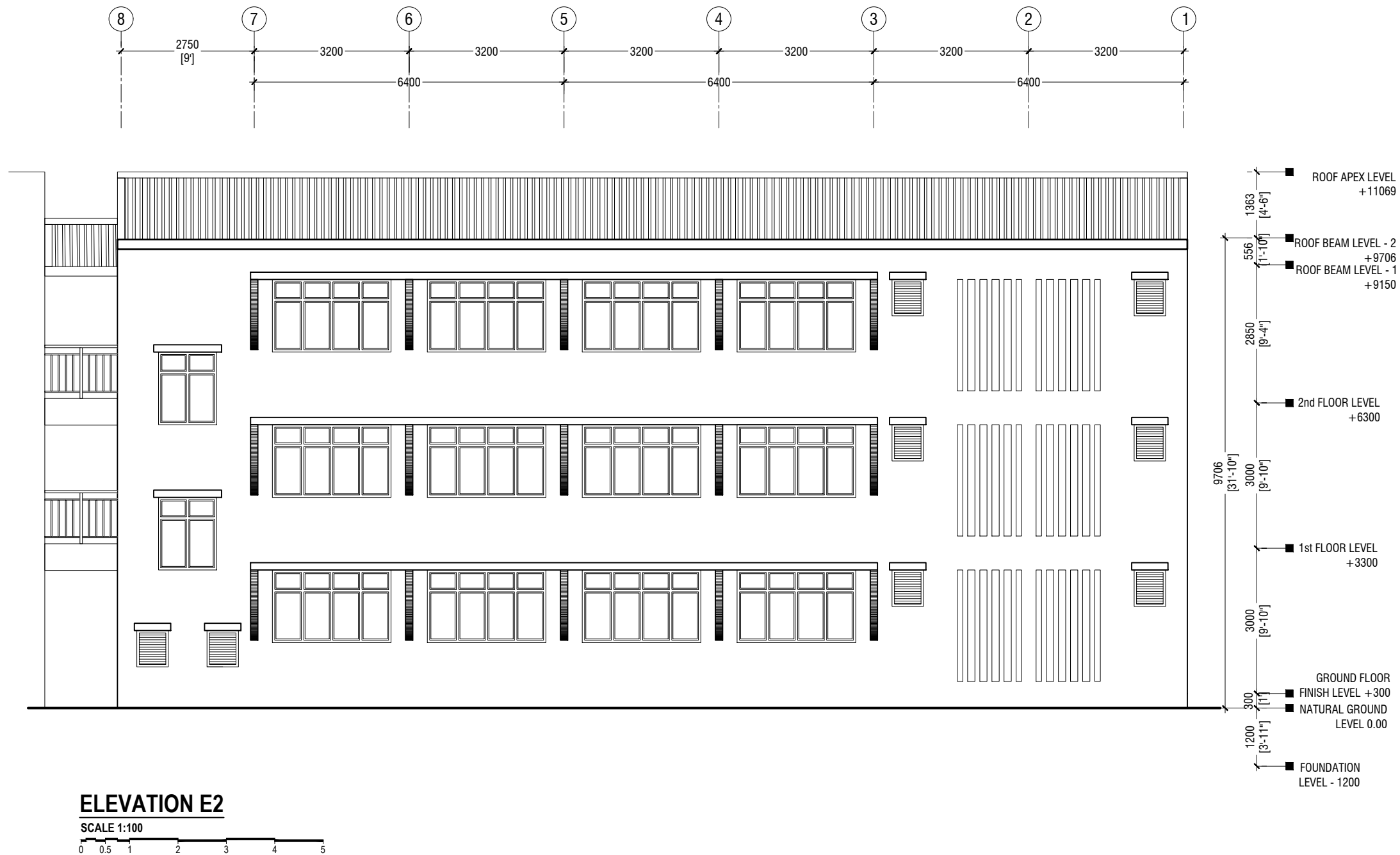
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Title: Roof Plan
 Page: A-04/22





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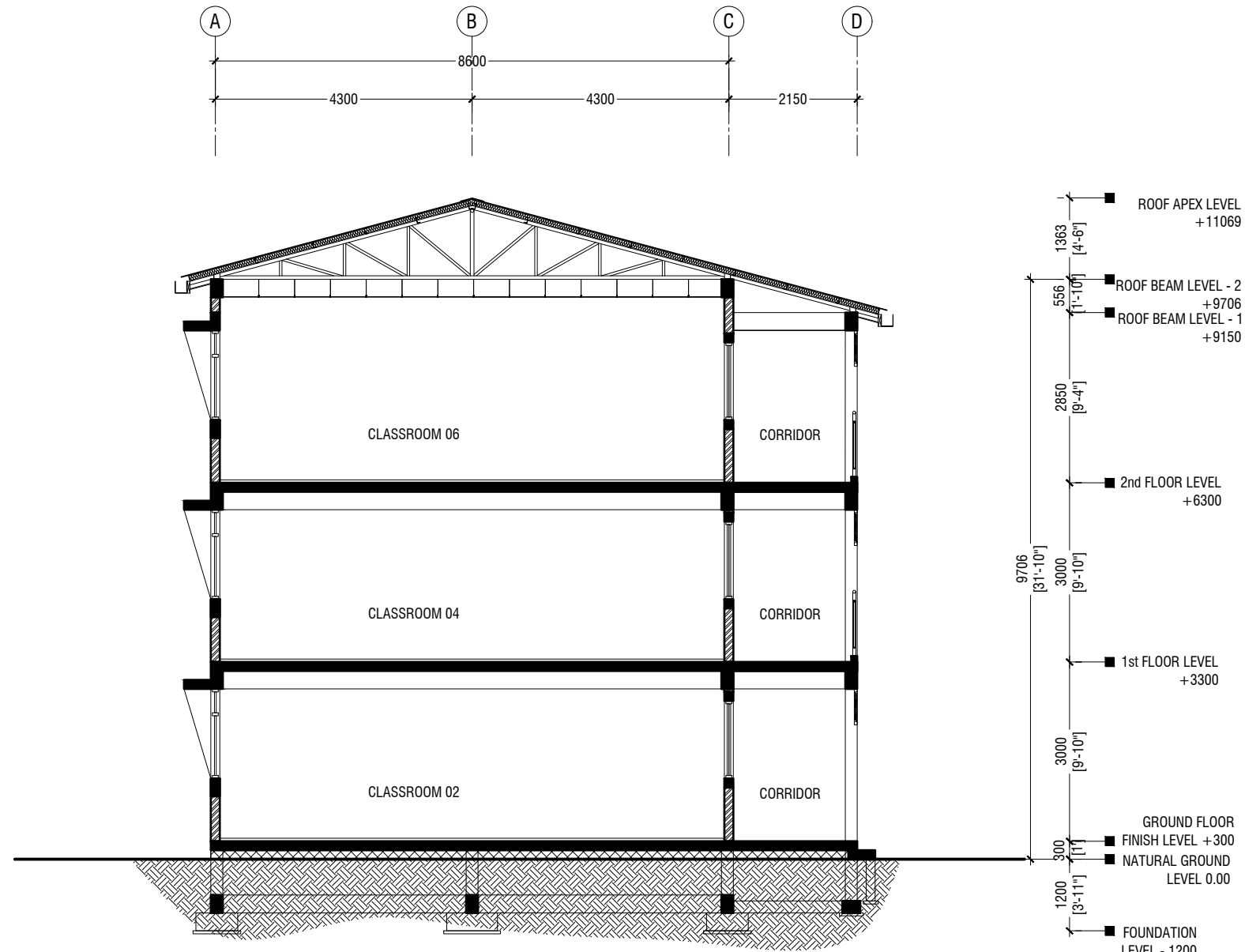
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Title: Elevation E2

Page: A-06/22



SECTION X-X

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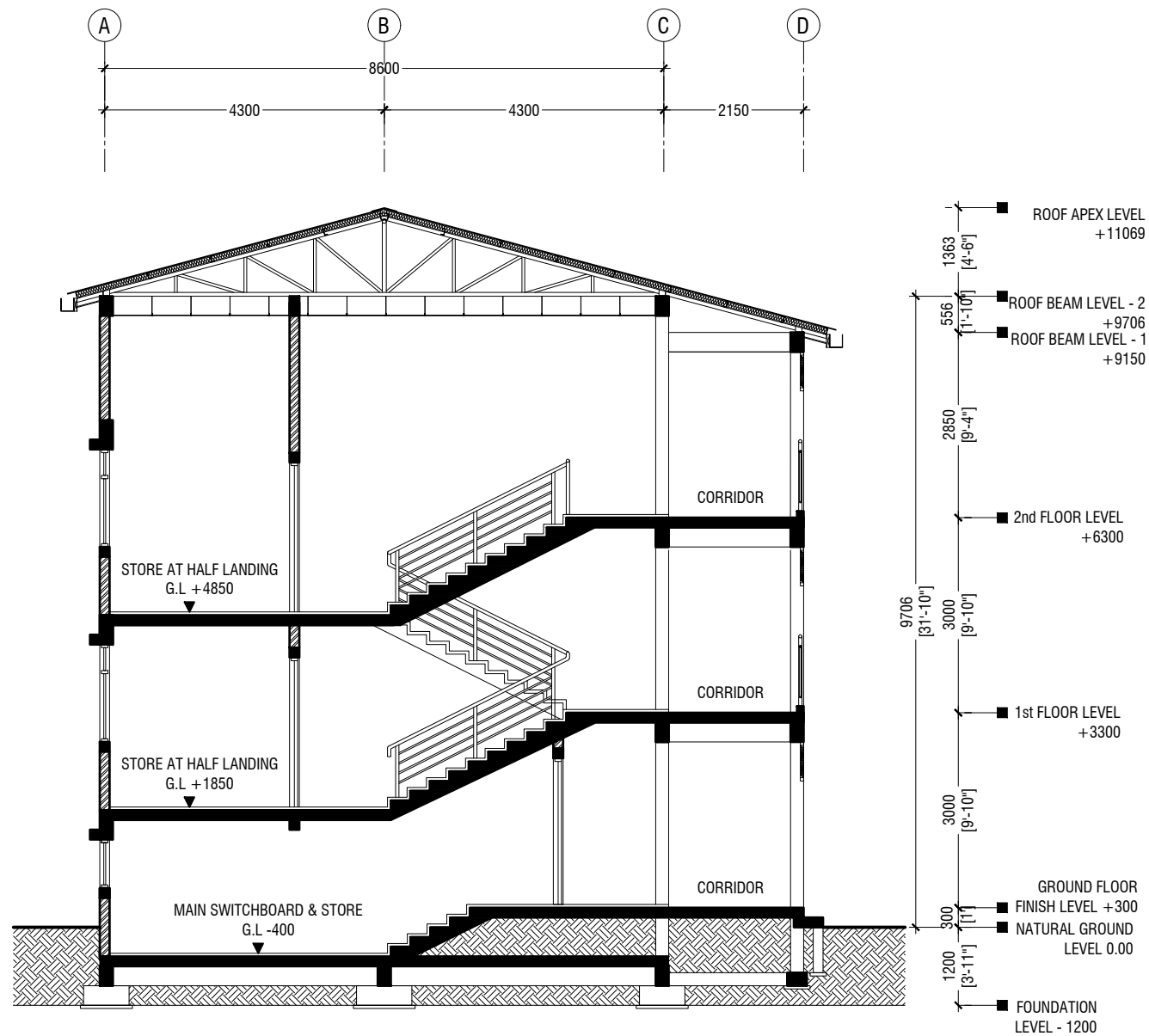
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Title: Section X-X

Page: A-07/22



SECTION Y-Y

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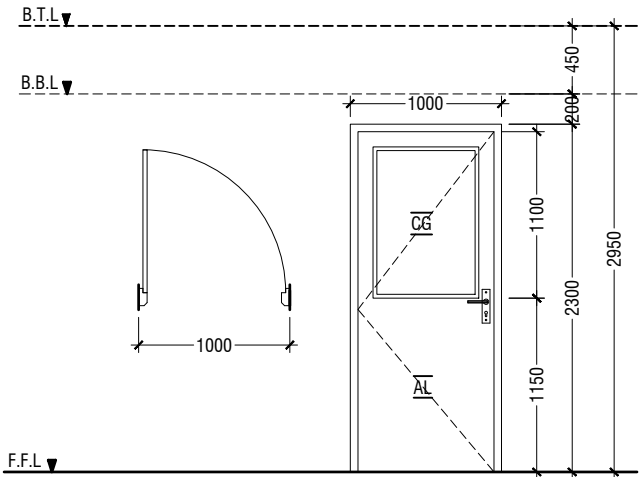
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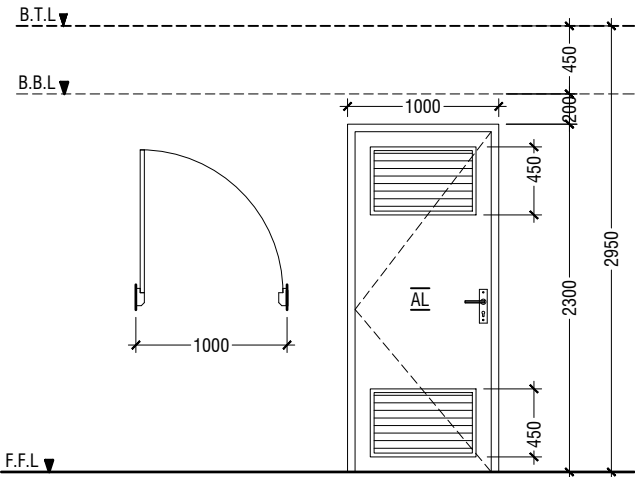
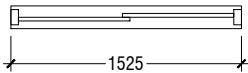
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Title: Section Y-Y

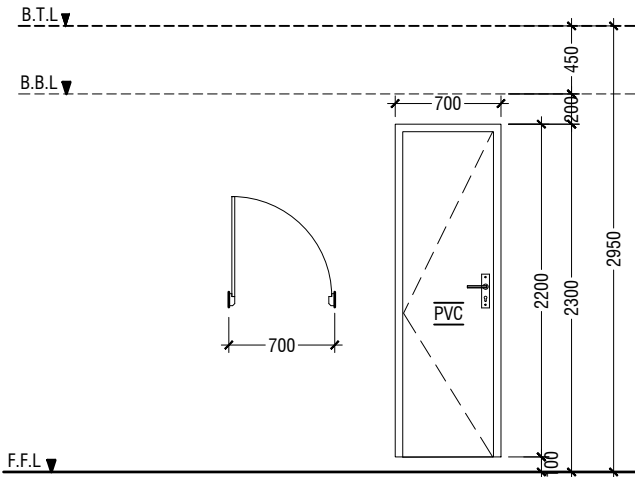
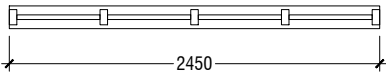
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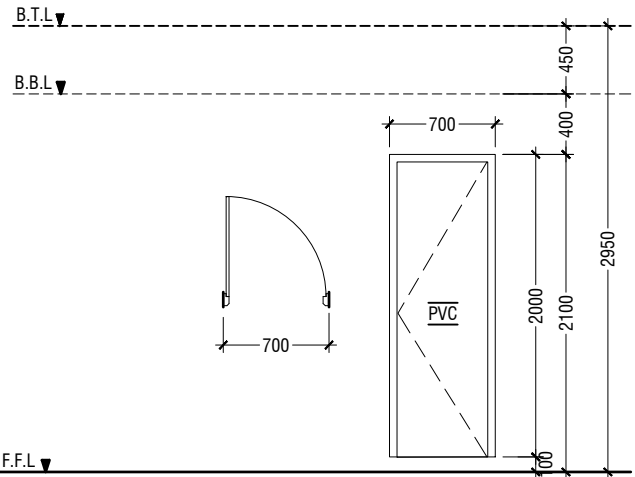
D1	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS & HALF LANDING STORE ROOM
QUANTITY	14 NOS
OPEN AREA	2.03 sqm



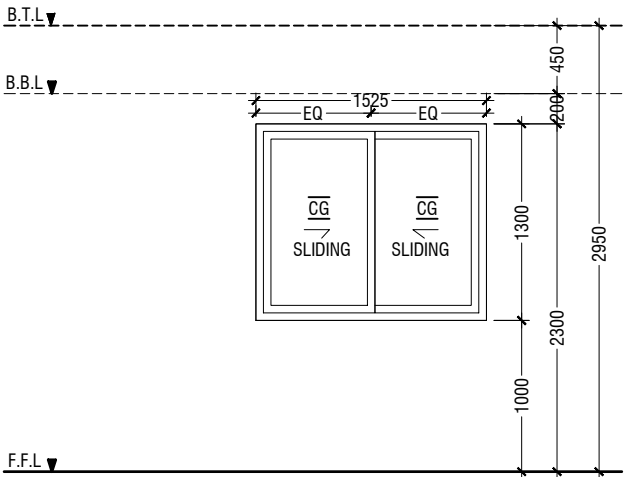
D2	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	08 NOS
OPEN AREA	2.03 sqm



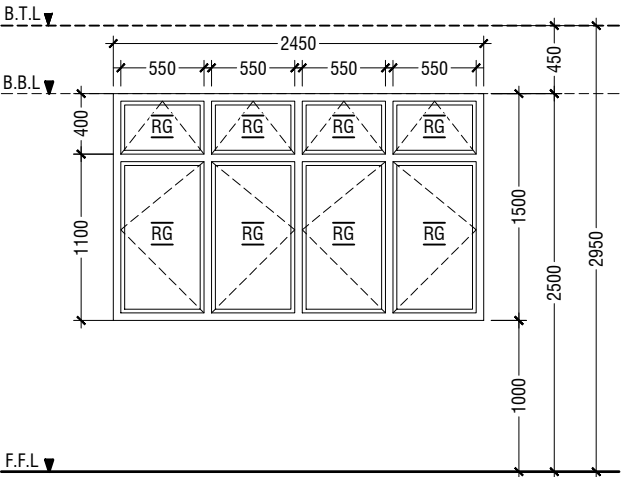
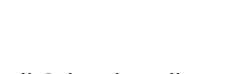
D3	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	STORE & CLEANER CLOSET
QUANTITY	06 NOS
OPEN AREA	1.29 SQM



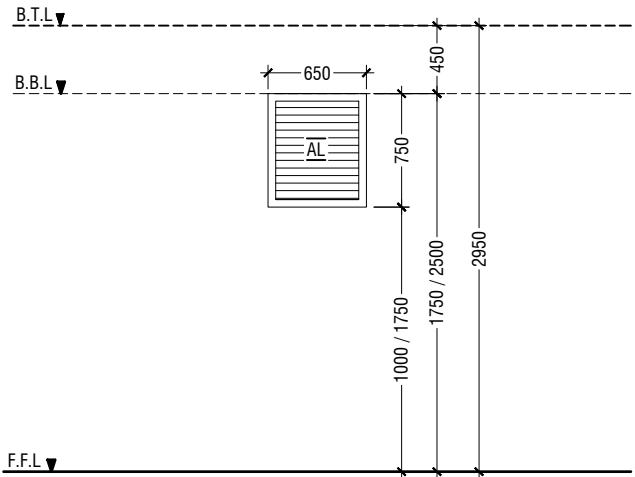
D4	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS STALLS
QUANTITY	15 NOS
OPEN AREA	1.17 SQM



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



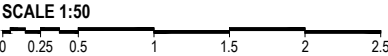
W3	WINDOW WITH ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	08 NOS
OPEN AREA	0.36 SQM

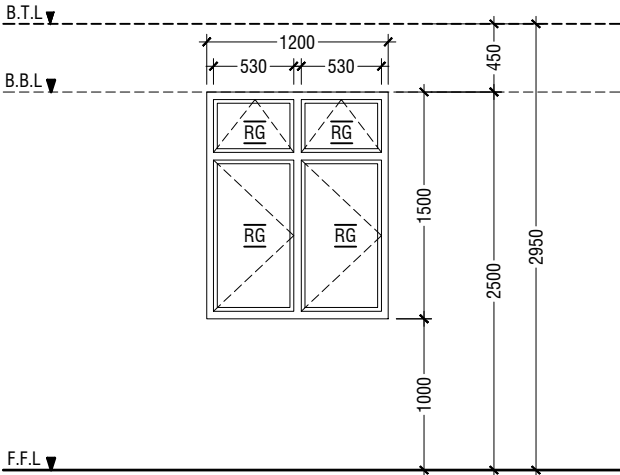
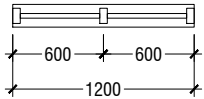


LEGEND:
CG - CLEAR GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

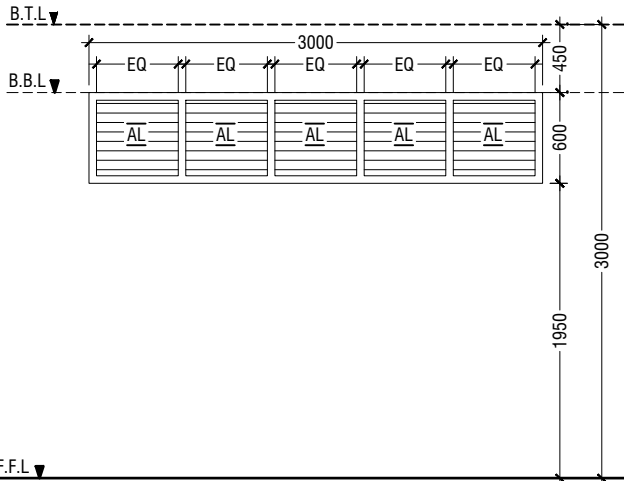
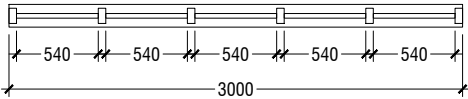
NOTE:-
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW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

DOOR & WINDOW SCHEDULE - 1

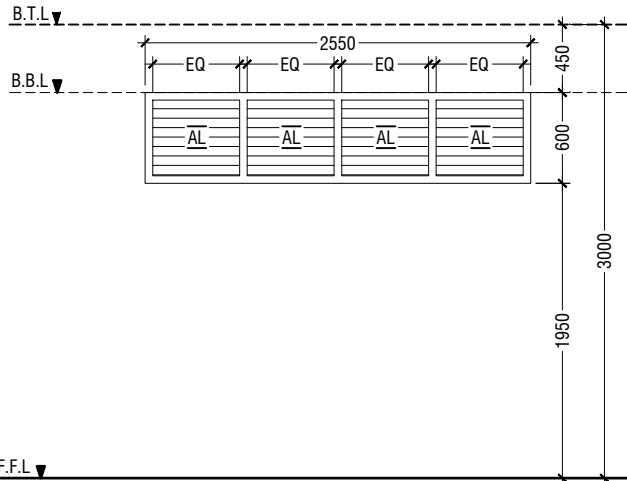
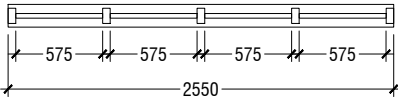




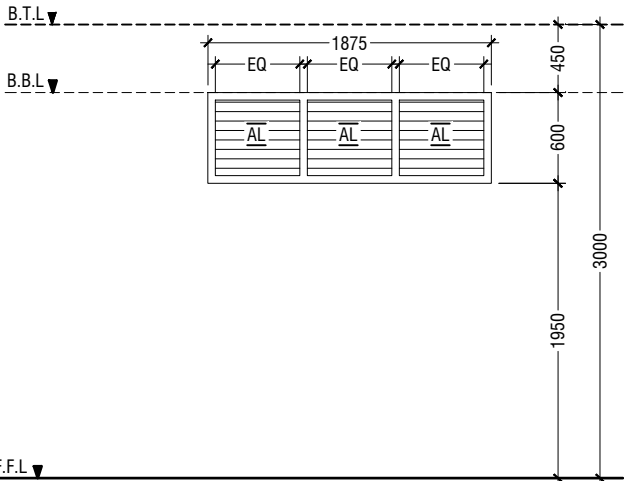
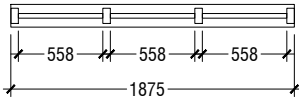
W4	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	HALF LANDING STORE ROOM
QUANTITY	02 NOS
OPEN AREA	1.43 sqm



V1	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	18 NOS
OPEN AREA	1.35 SQM



V2	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	03 NOS
OPEN AREA	1.15 SQM



V3	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	03 NOS
OPEN AREA	0.84 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 - 2

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



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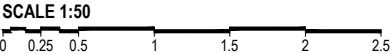
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Schedule - 2

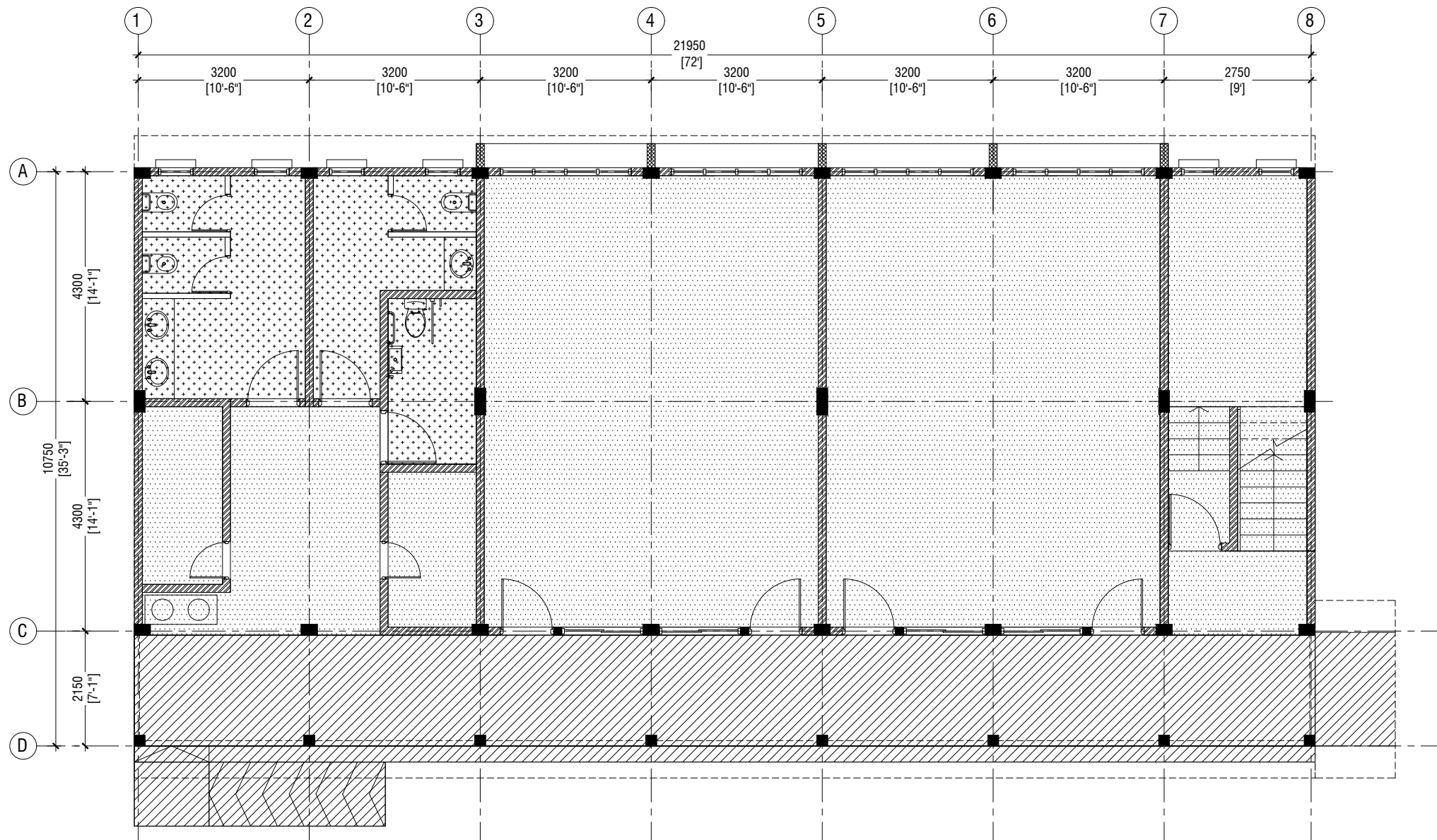
Page: A-10/22

SCHEDULE OF VENTILATION FOR S.ATOLL SCHOOL, HULHUMEEDHOO

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 Toilet (F)	12.73		W3 & RC FINS		
4 Toilet (M)	9.09		W3 & RC FINS		
5 Toilet for disabled	5.12		Mechanical Ventilation		
6 Main switchboard /store	11.25		Mechanical Ventilation		
First to Second Floor					
1 Classroom 5	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
2 Classroom 6	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
3 Toilet (F)	16.24		W3 & RC FINS		
4 Toilet (M)	16.24		W3 & RC FINS		
5 Store at half landing level	7.22	W4	0.72	1.43	19.81%

VENTILATION SCHEDULE





**GROUND FLOOR
FLOOR FINISHES PLAN**

SCALE 1:100
0 0.5 1 2 3 4 5

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



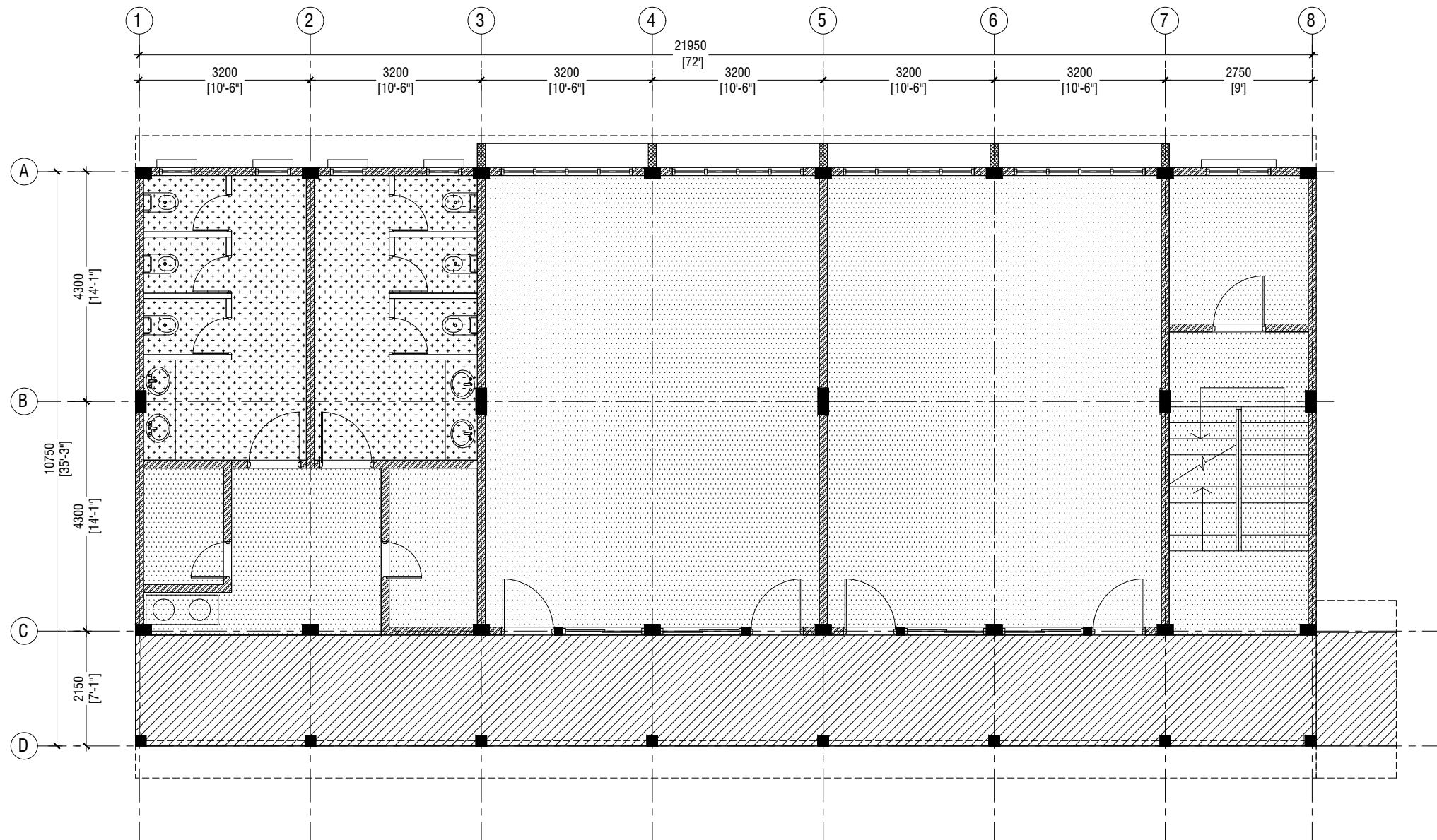
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Title: Ground Floor
Floor Finishes Plan
Page: A-12/22



FIRST - SECOND 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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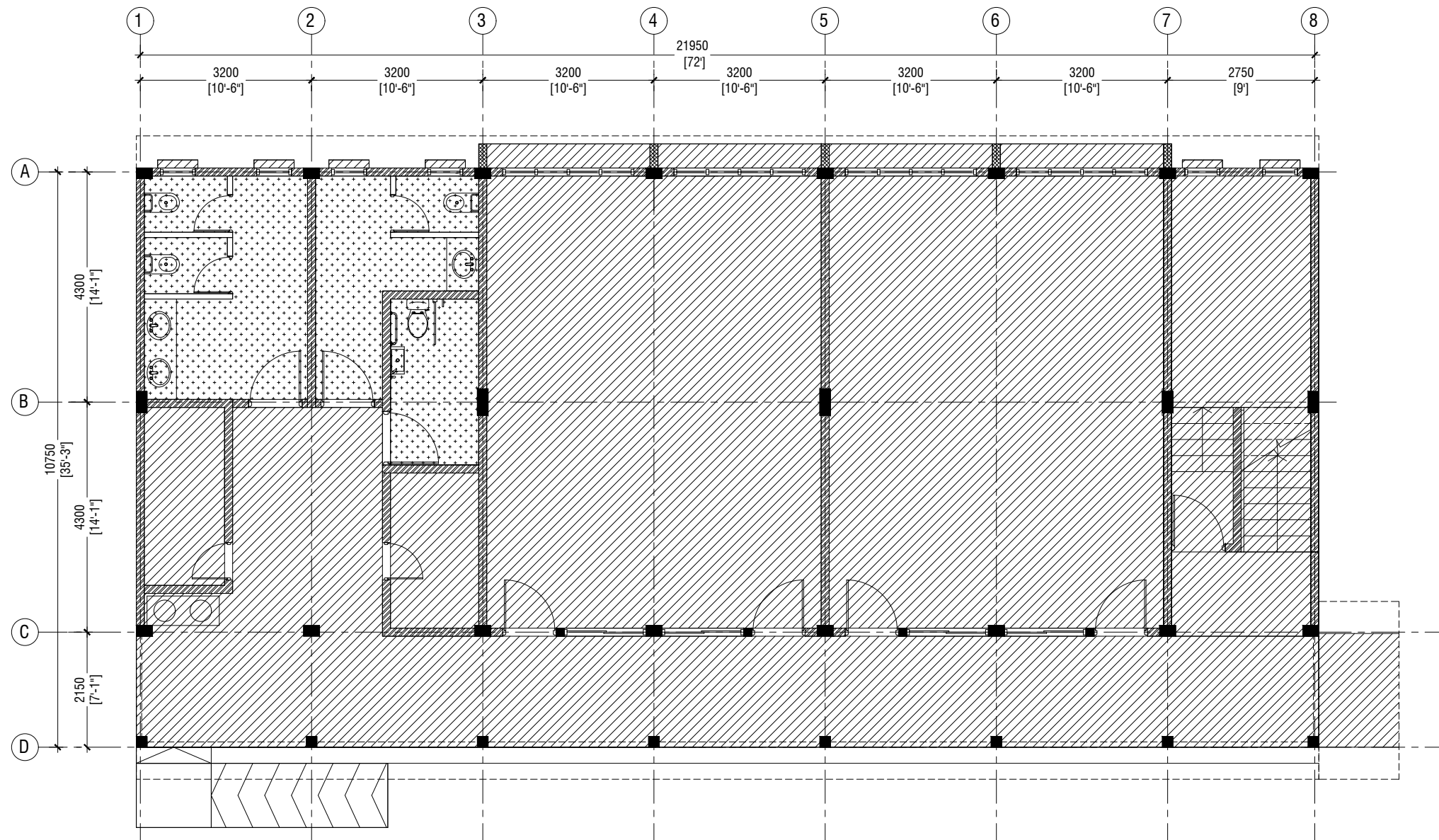
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Title: First - Second Floor
Floor Finishes Plan

Page: A-13/22



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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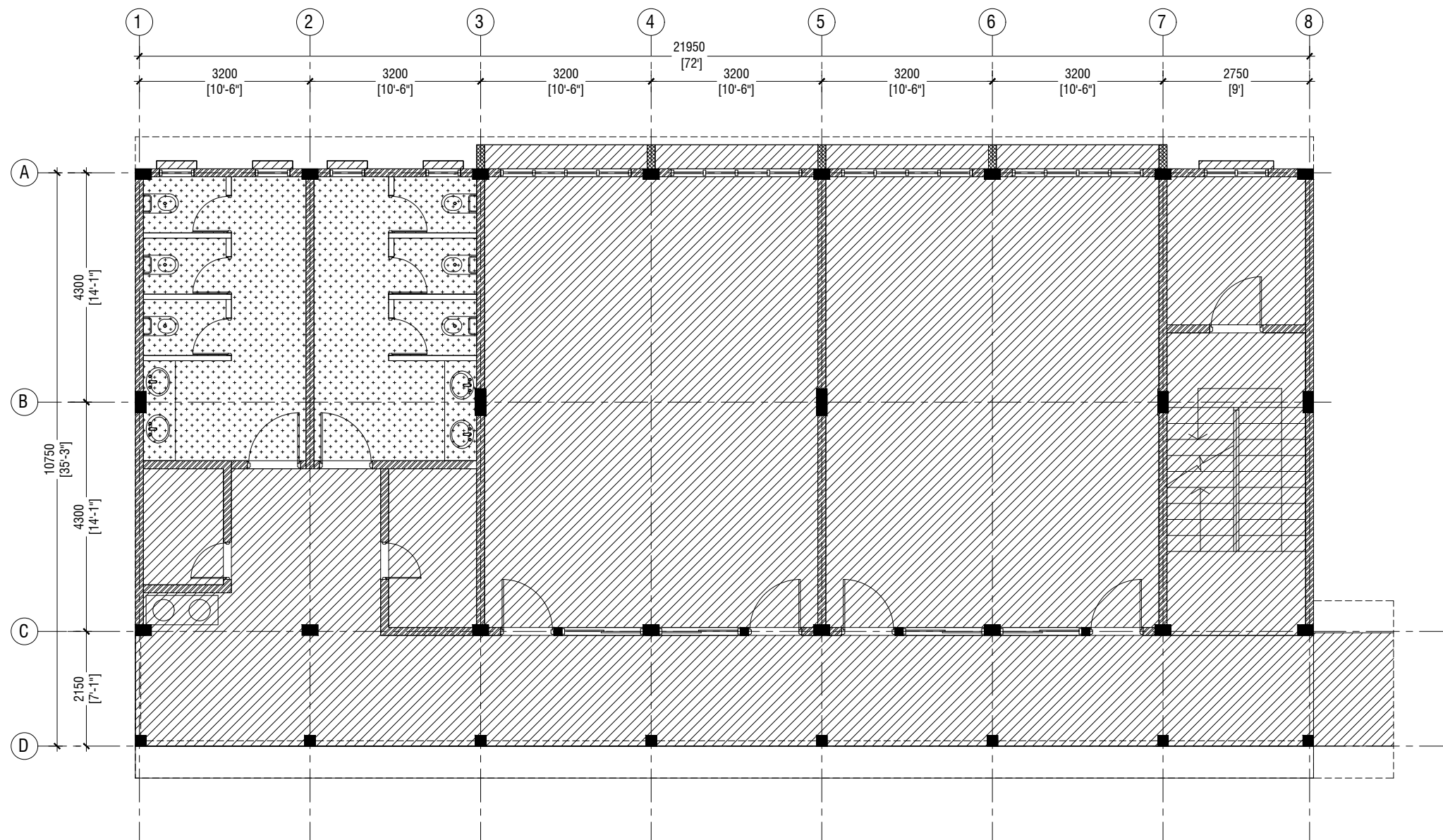
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Title: Ground Floor
Reflected Ceiling Plan

Page: A-14/22



FIRST 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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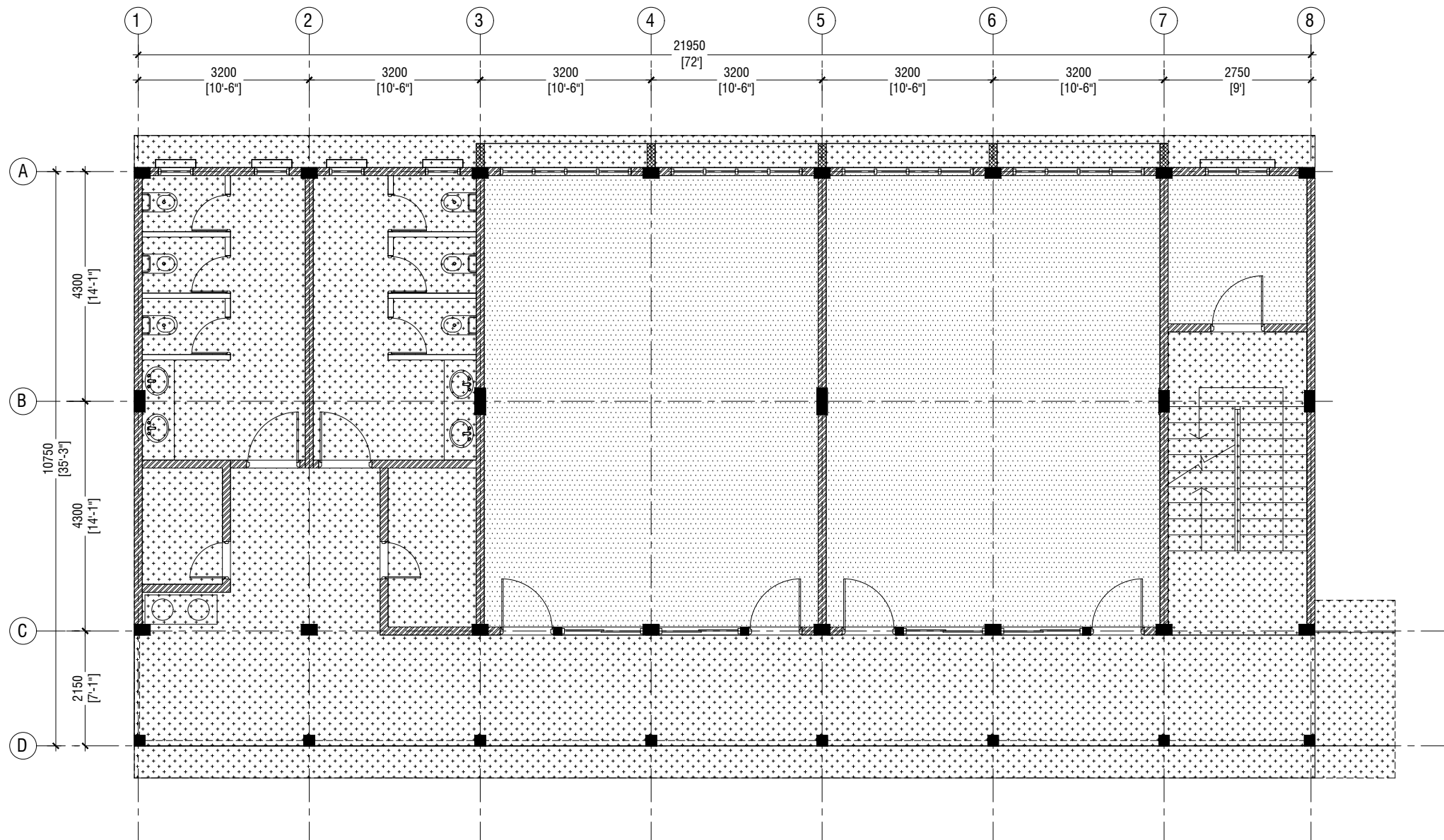
S.Atoll School, Hulhumedhoo - 6 Classroom (3 Storey)
Client: Ministry of Education

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

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Title: First Floor
Reflected Ceiling Plan

Page: A-15/22



SECOND FLOOR REFLECTED CEILING PLAN

SCALE 1:100



LEGEND

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



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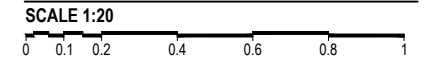
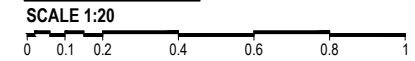
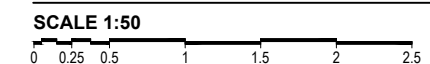
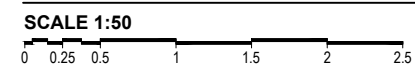
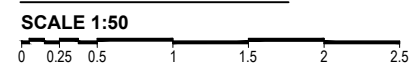
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Client: Ministry of Education

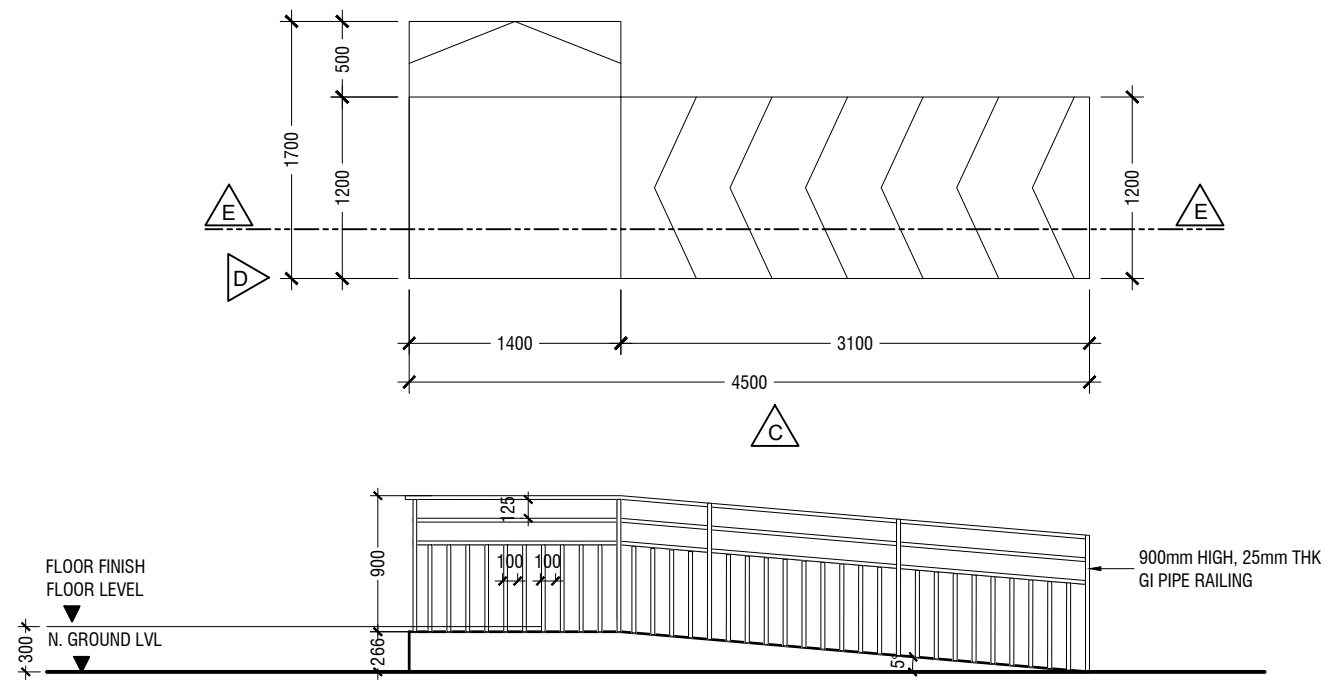
Project Number: RI/2017/012
Date: September 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

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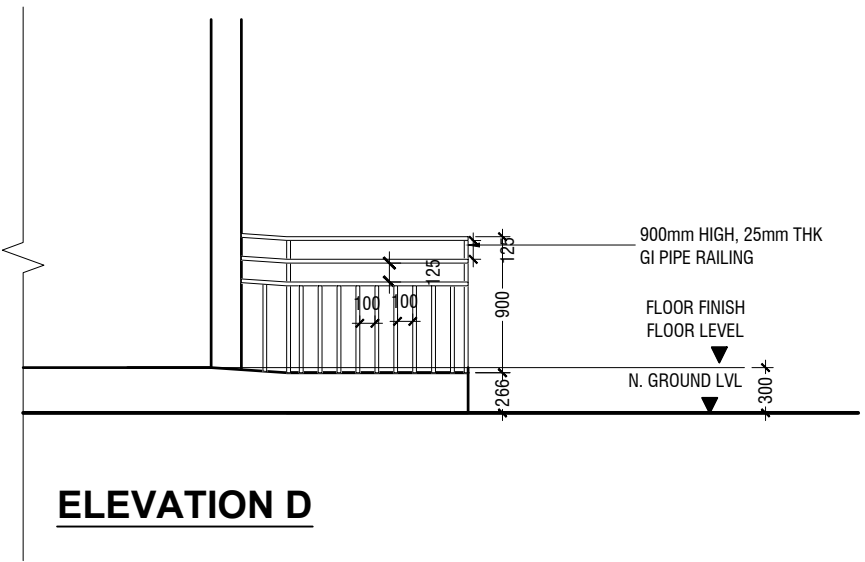
Title: Second Floor
Reflected Ceiling Plan

Page: A-16/22

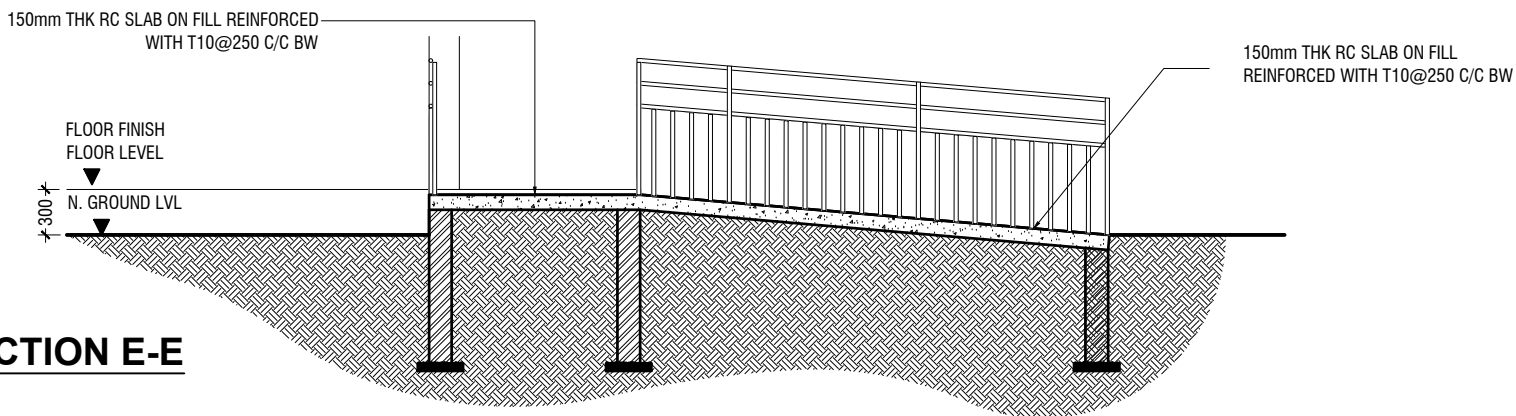




ELEVATION C

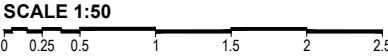


ELEVATION D



SECTION E-E

MAIN ENTRANCE RAMP DETAILS

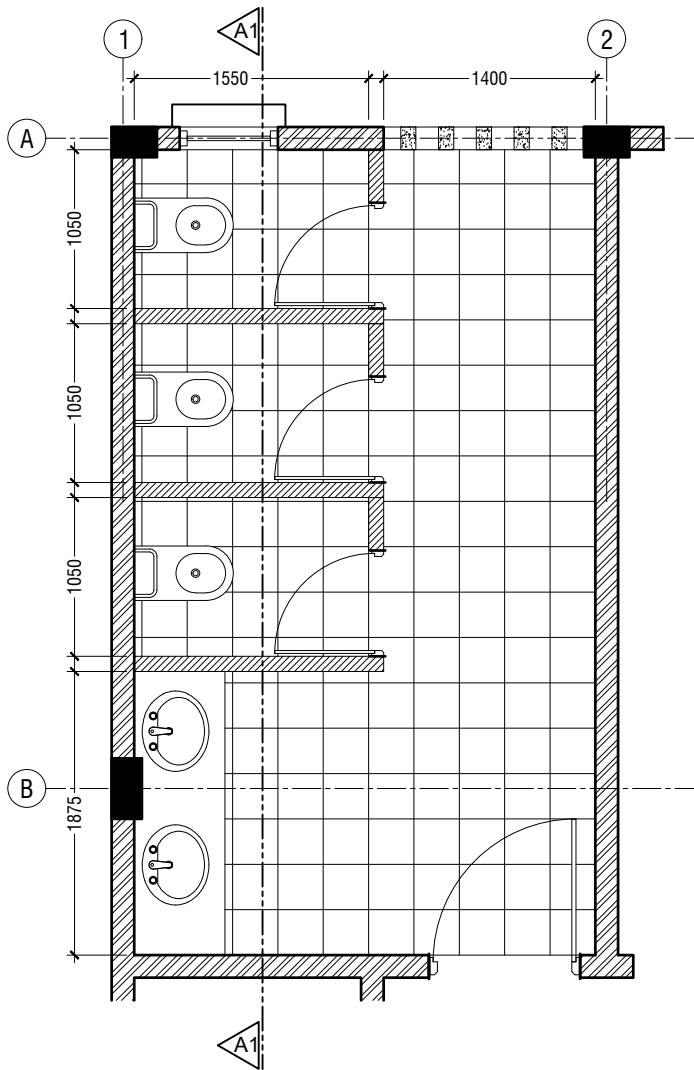


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Title: Main Entrance Ramp
 Details
 Page: A-18/22

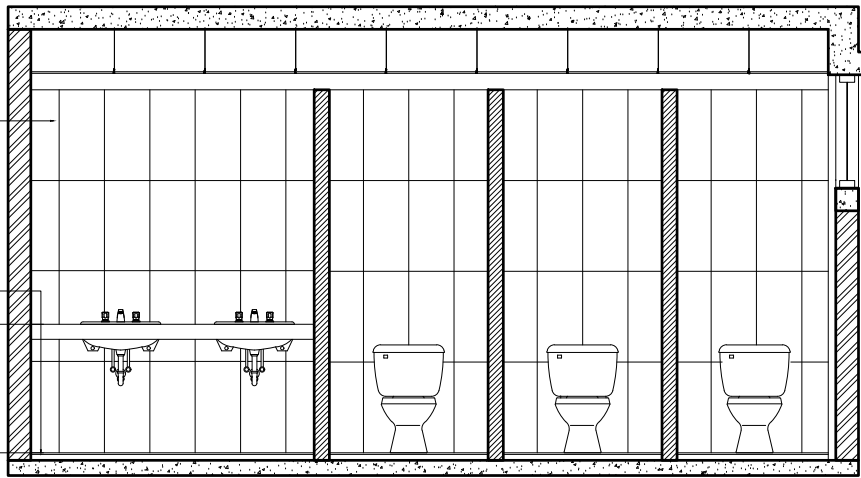


TYPICAL TOILET PLAN

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

300x600mm HOMOGENOUS TILES
OVER 50mm SCREEDING

300X300mm HOMOGENOUS NON-SLIP
TILES OVER 50mm SCREEDING



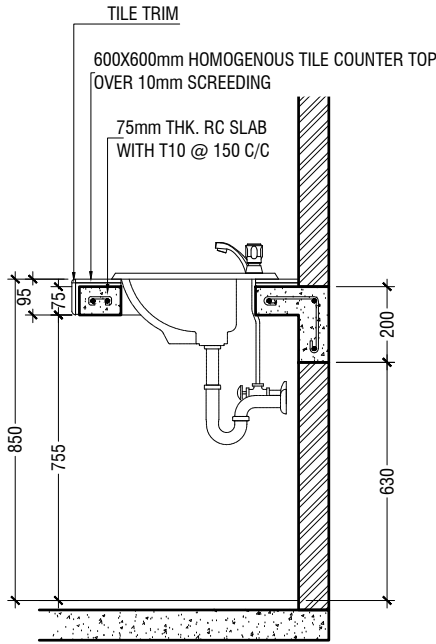
SECTION A1-A1

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

+6300 SECOND FLOOR LEVEL

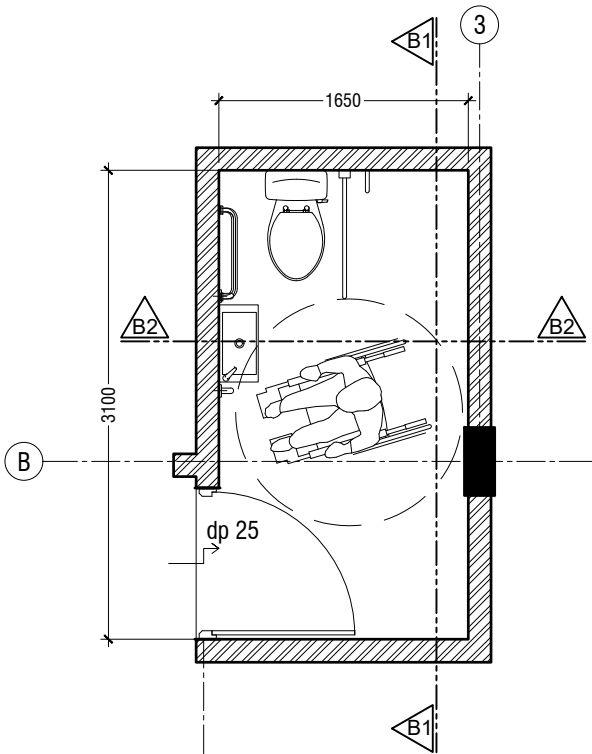
+5850 BEAM LEVEL

+3350 FIRST FINISHED
FLOOR LEVEL



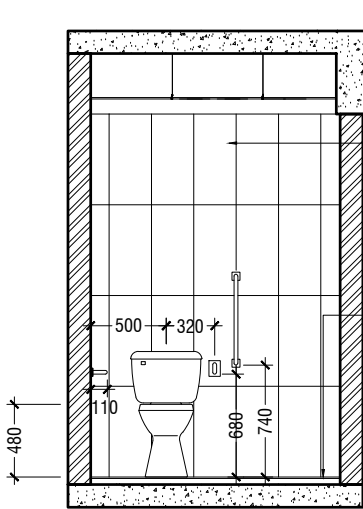
COUNTER TOP DETAILS

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1



**TOILET FOR PERSONS WITH
DISABILITIES PLAN**

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



SECTION B1-B1

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

+3300 FIRST FLOOR LEVEL

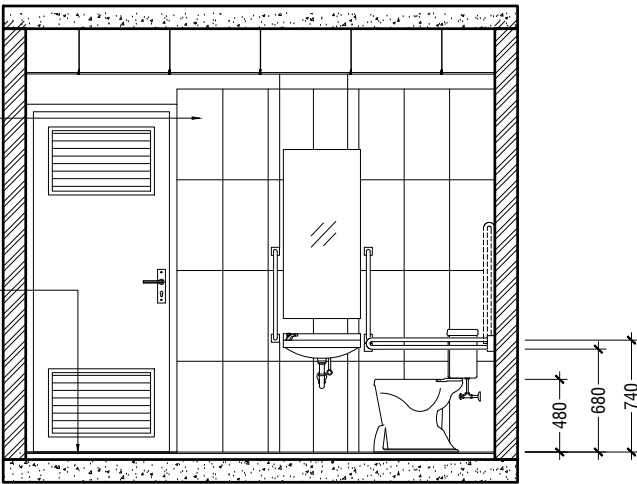
+2850 BEAM LEVEL

300x600mm HOMOGENOUS TILES
OVER 50mm SCREEDING

300X300mm HOMOGENOUS NON-SLIP TILES
OVER 50mm SCREEDING

+350 GROUND FINISHED
FLOOR LEVEL

±0.00 N.G.L.



SECTION B2-B2

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



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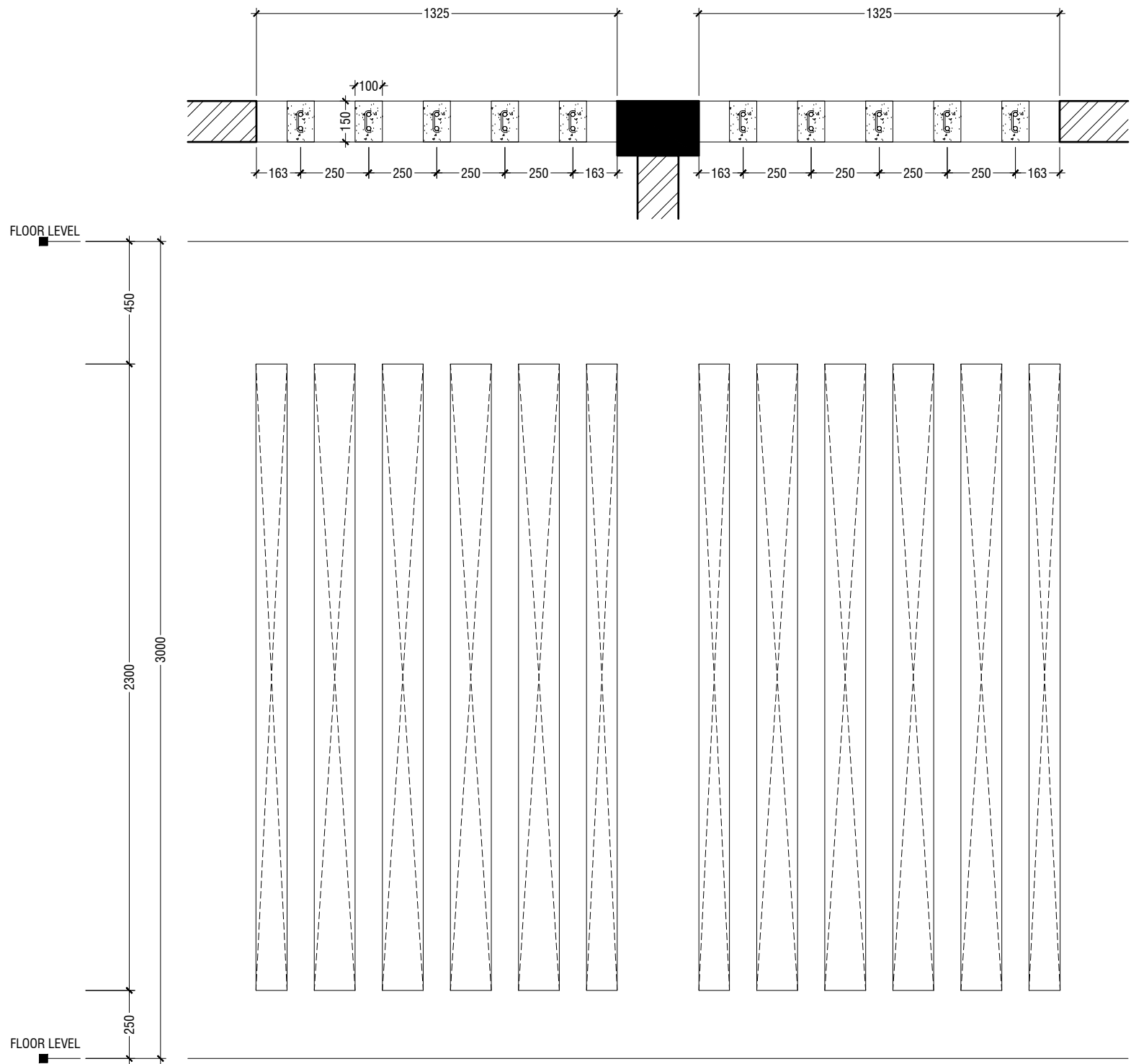
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Title: Toilet Details

Page: A-19/22



RC FIN DETAILS



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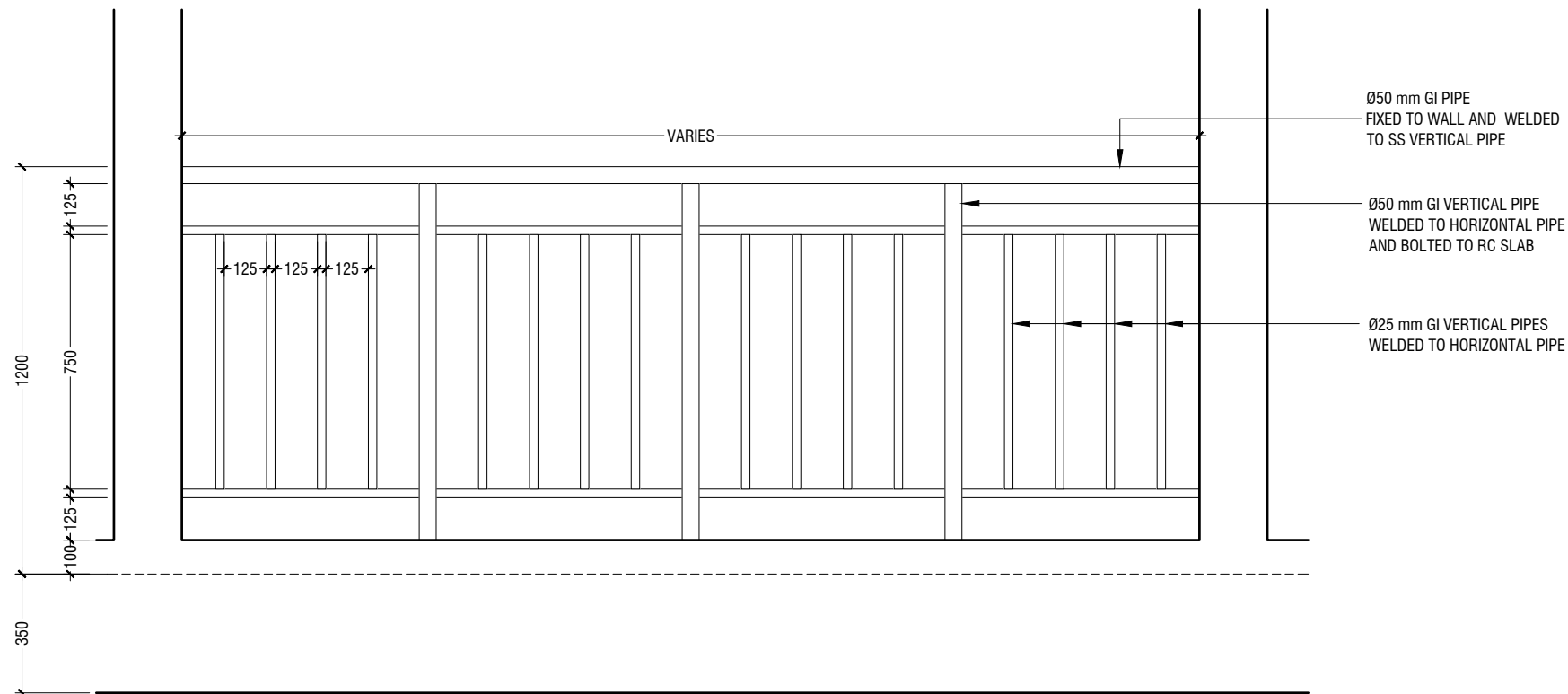
S.Atoll School, Hulhumheedhoo - 6 Classroom (3 Storey)
Client: Ministry of Education

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Architect : Razana Amir
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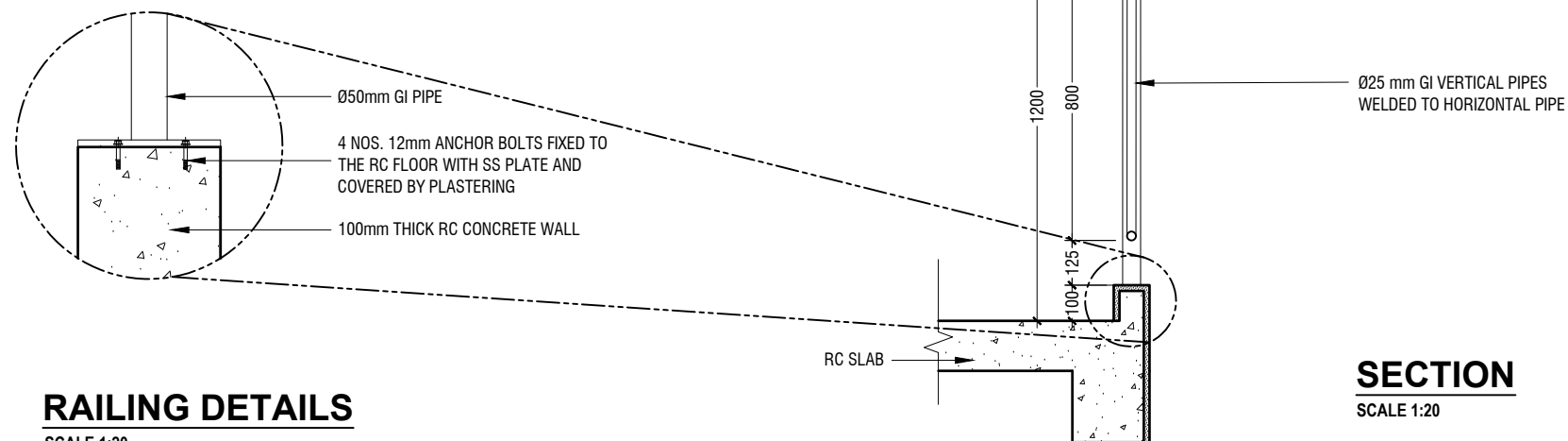
Title: RC Fin Details

Page: A-20/22



ELEVATION

SCALE 1:20



RAILING DETAILS

SCALE 1:20



SECTION

SCALE 1:20



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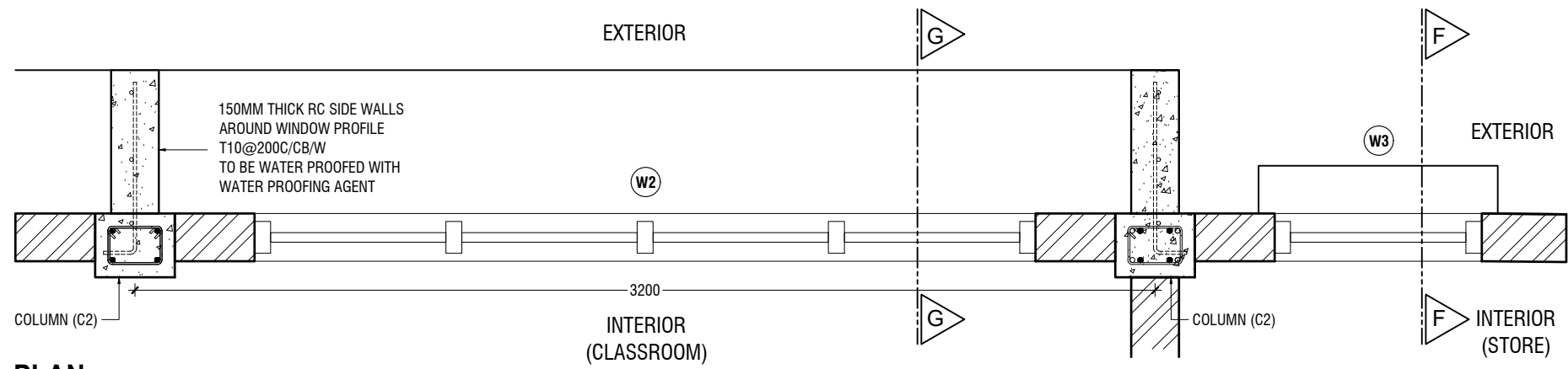
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Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

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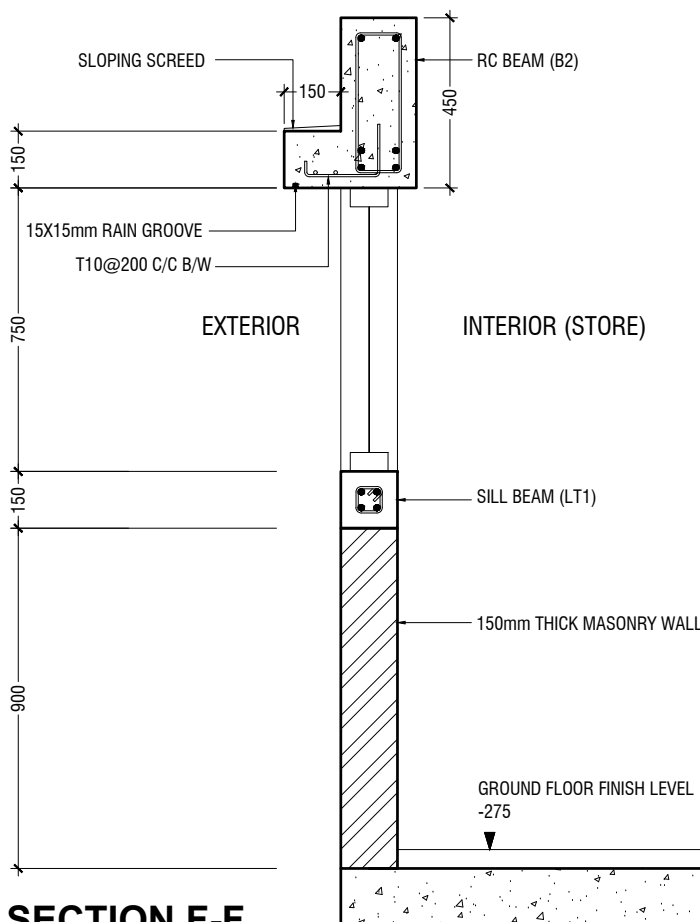
Title: Railing Details

Page: A-21/22



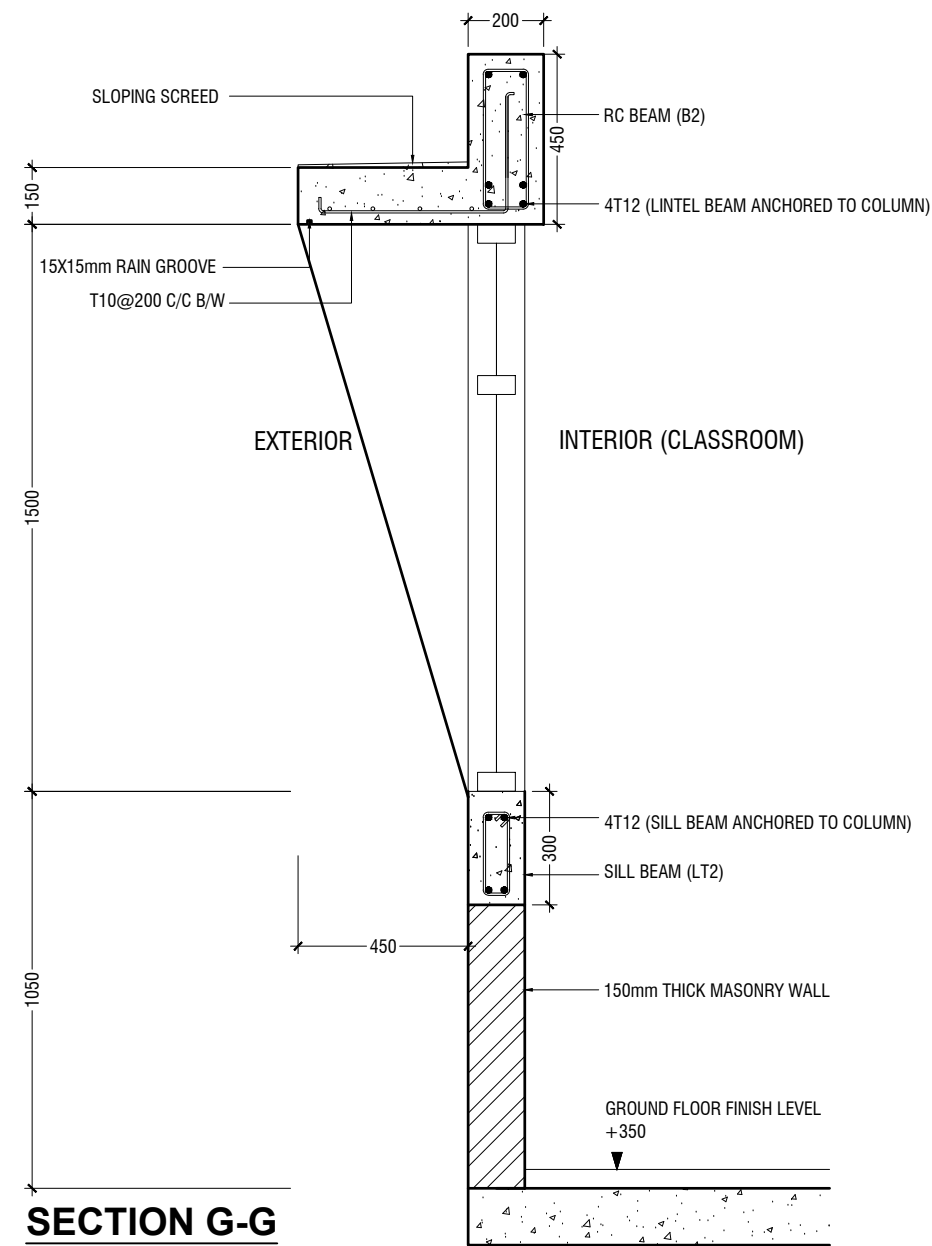
PLAN

SCALE 1:20



SECTION F-F

SCALE 1:20

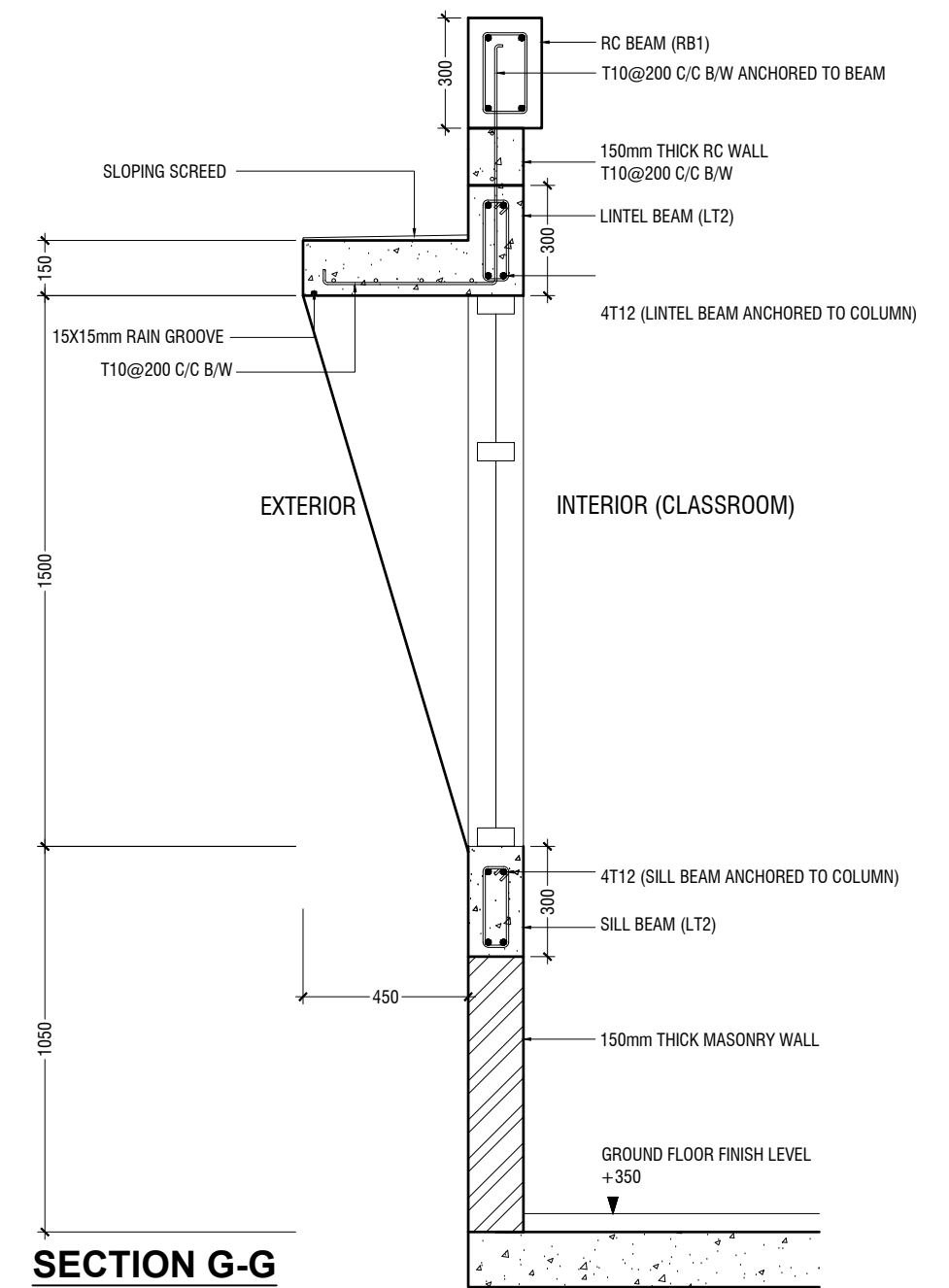


SECTION G-G

SCALE 1:20

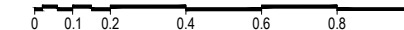


* NOTE: GROUND - FIRST FLOOR



SECTION G-G

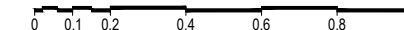
SCALE 1:20



* NOTE: SECOND FLOOR

RC WALL DETAILS

SCALE 1:20



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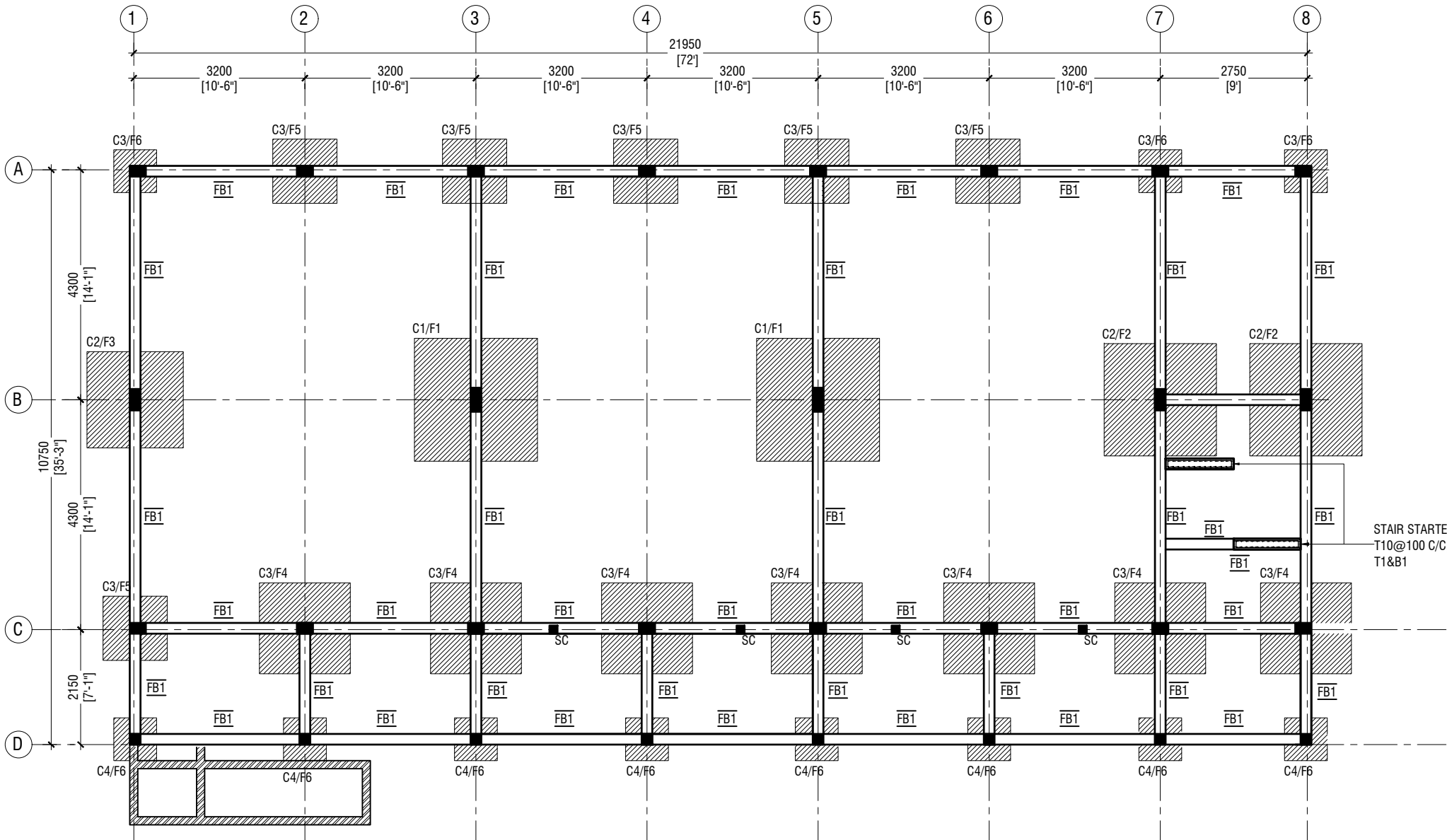
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Architect : Razana Amir
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Services : Aishath Ahmed
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Title: RC Wall Details

Page: A-22/22



FOUNDATION PLAN

SCALE 1:100

NOTE:

COLUMN SIZES

C1 : 200 x 450 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	2300 x 2300 x 400	T12@100 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2100 x 2100 x 400	T12@125 C/C B/W (B) & T12@200 C/C B/W (T)
F3	1800 x 1800 x 350	T12@150 C/C B/W (B)
F4	1700 x 1700 x 350	T12@150 C/C B/W (B)
F5	1200 x 1200 x 350	T12@200 C/C B/W (B)
F6	800 x 800 x 350	T12@200 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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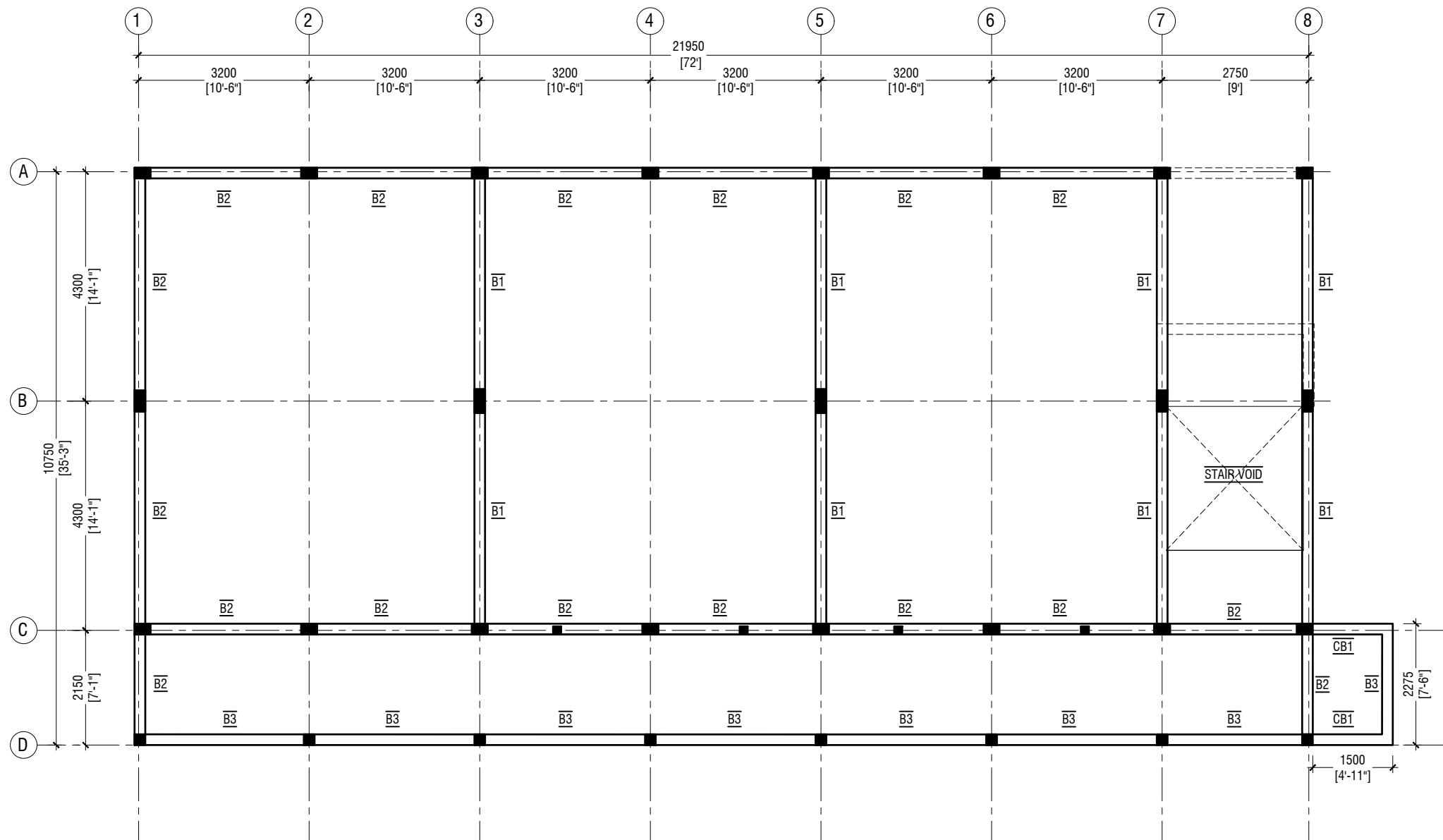
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Client: Ministry of Education

Project Number: RI/2017/012
Date: September 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
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Title: Foundation Plan

Page: S-01/10



FIRST - SECOND FLOOR BEAM PLAN

SCALE 1:100

NOTE:

COLUMN SIZES

C1	: 200 x 450 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
CB1	: 200x450 mm
COVER	: 35mm

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



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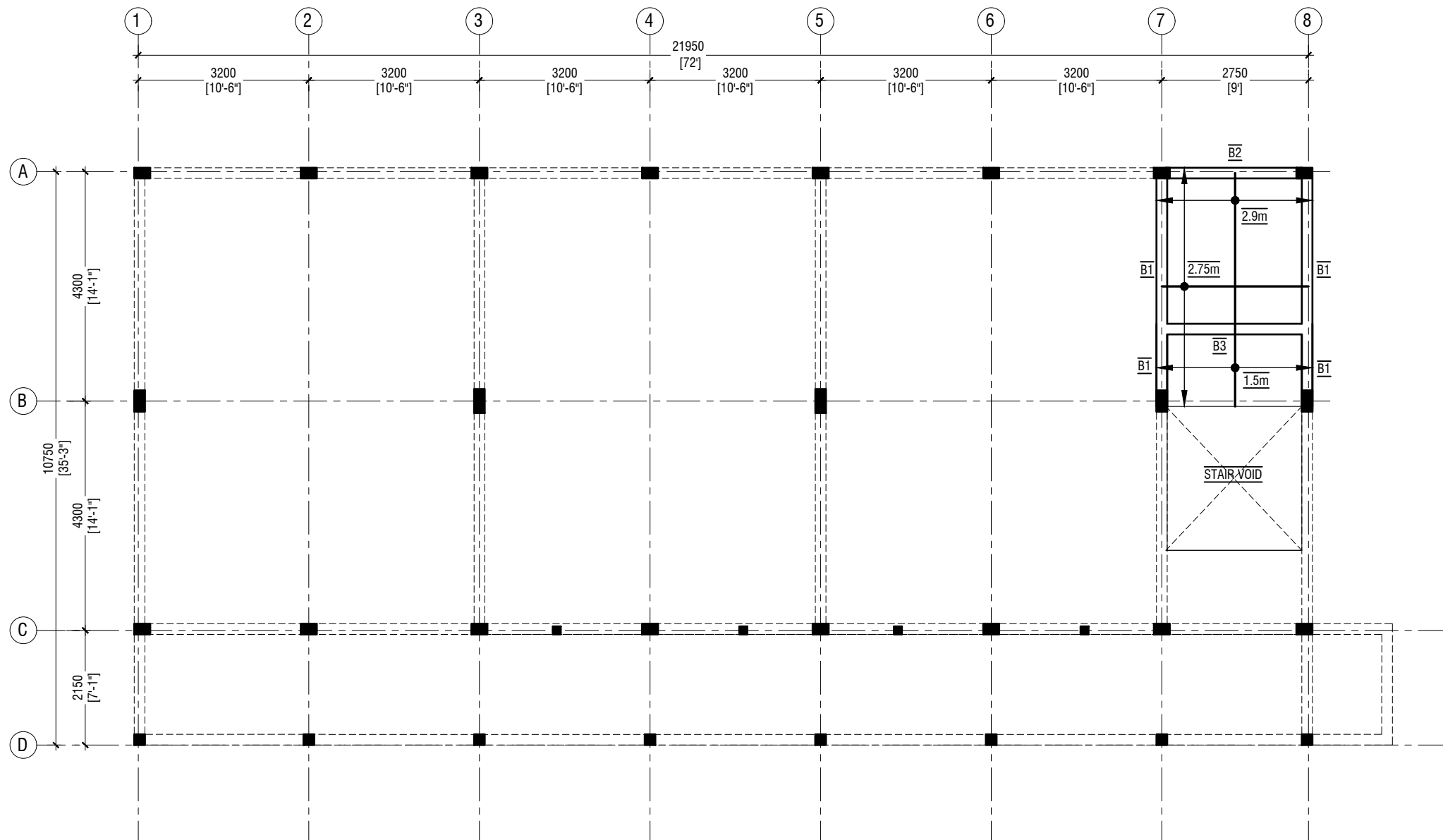
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Client: Ministry of Education

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Title: First - Second Floor
Beam Plan

Page: S-02/10



STORE / HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN (+1850 & +4850)

SCALE 1:100
0 0.5 1 2 3 4 5

NOTE:

COLUMN SIZES	
C1	: 200 x 450 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
CB1	: 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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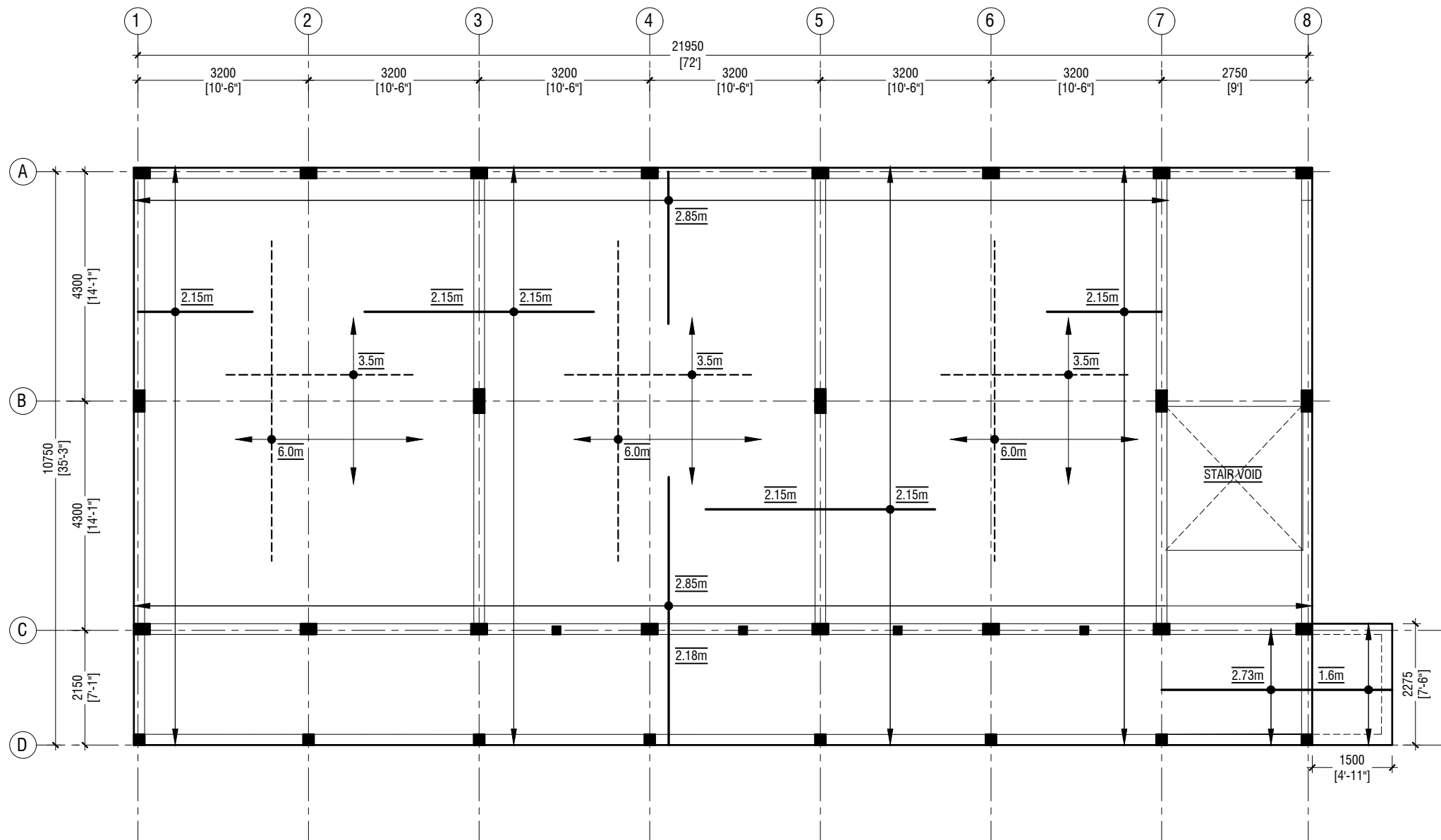
S.Atoll School, Hulhumedhoo - 6 Classroom (3 Storey)
Client: Ministry of Education

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

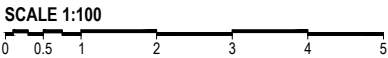
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Title: Store / Half Landing
Beam & Slab Rein. Plan

Page: S-03/10



FIRST - SECOND 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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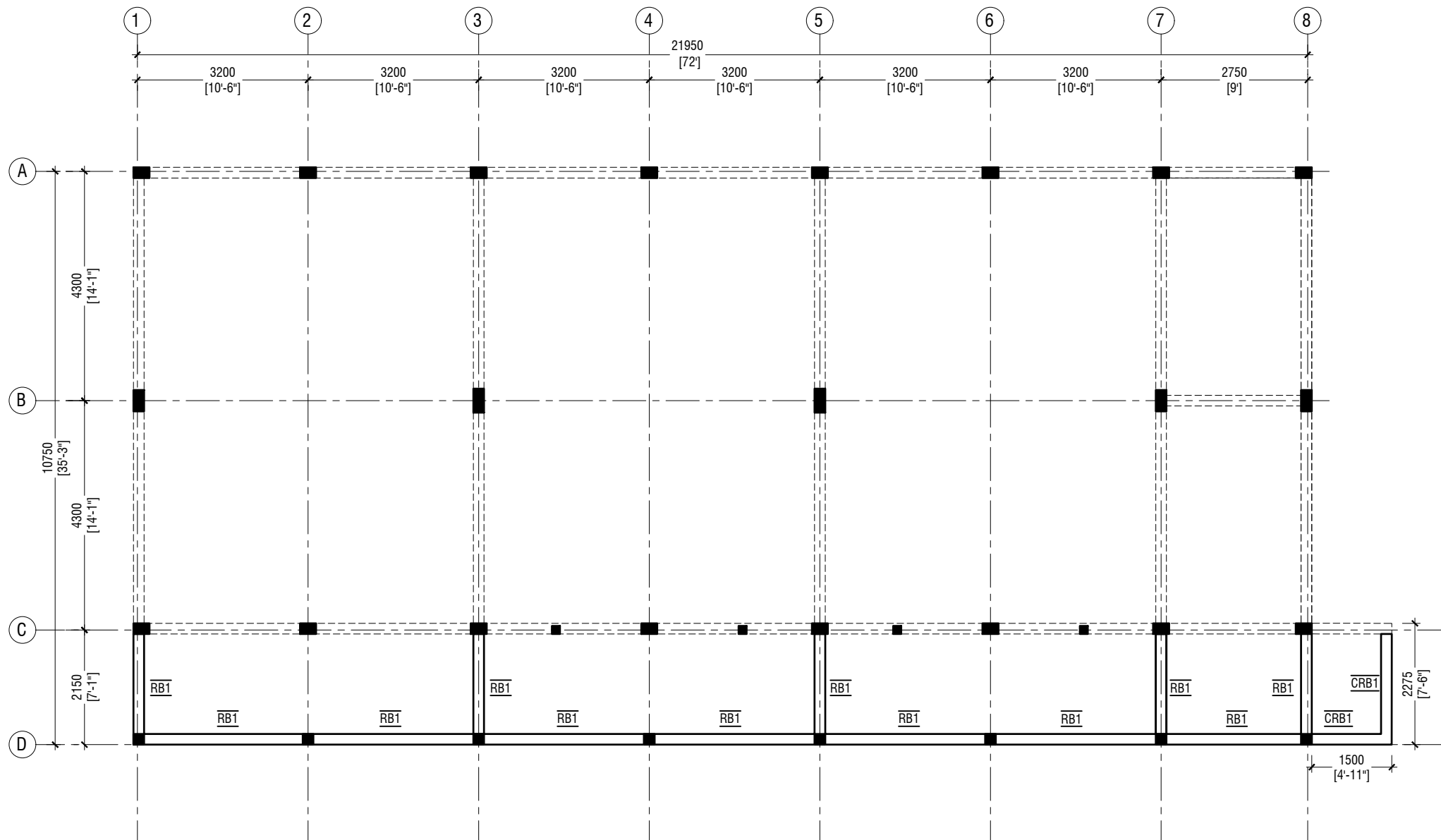
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Client: Ministry of Education

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Date: September 2019
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Engineer : Ahmed Zuhail Zaeem
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Services : Aishath Ahmed
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Title: First - Second Floor
Slab Rein. Plan

Page: S-04/10



NOTE:

COLUMN SIZES

C1	: 200 x 450 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
CRB1	: 200x300 mm
COVER	: 35mm

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

ROOF BEAM PLAN - 1 @9.15 FROM F.F.L

SCALE 1:100



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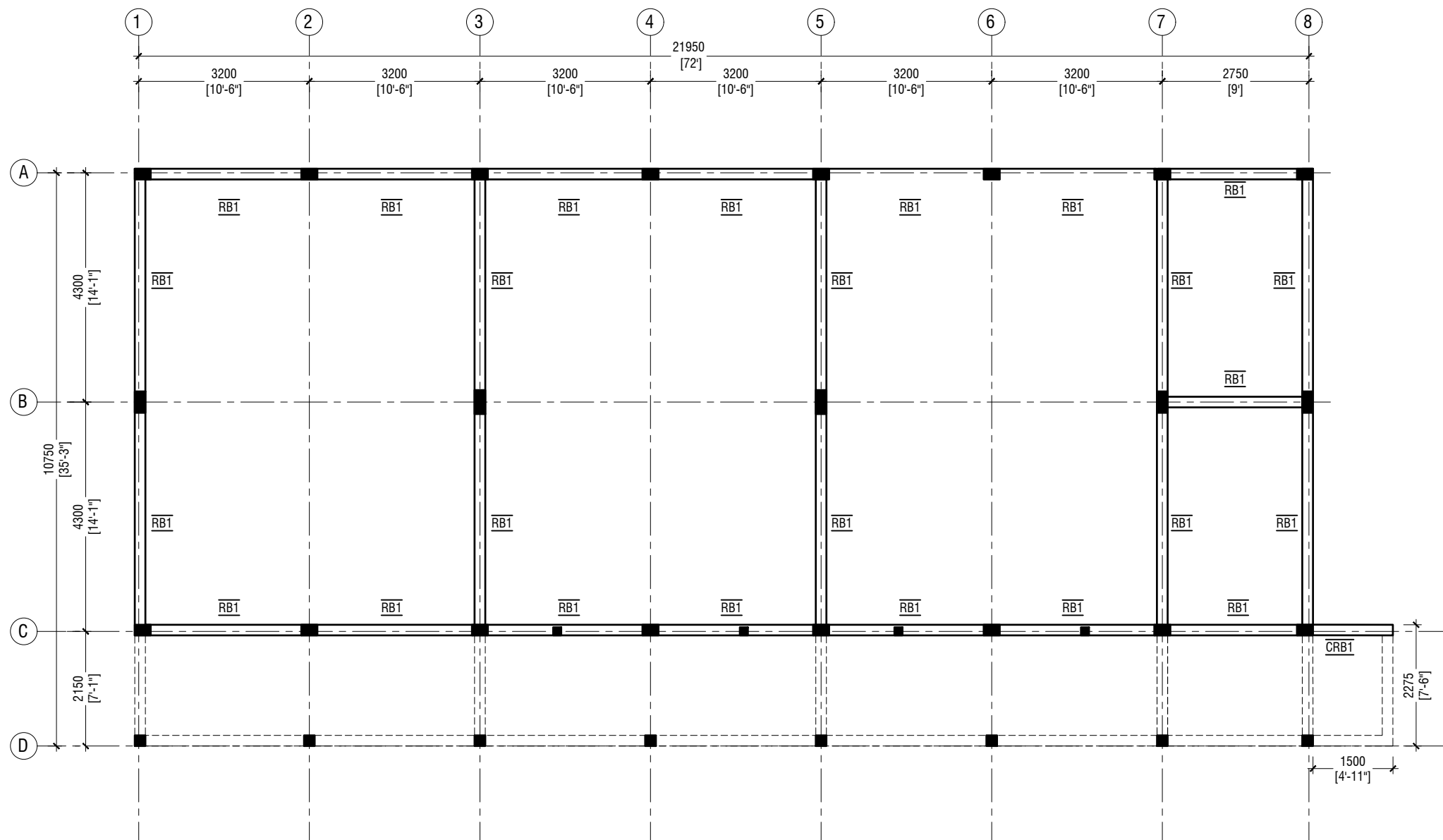
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Date: September 2019
Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
Drawn by : Razana Amir
Services : Aishath Ahmed
Interior : -

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Title: Roof Beam Plan - 1
(+6150)

Page: S-05/10



ROOF BEAM PLAN - 2 @9.706 FROM F.F.L

SCALE 1:100



NOTE:

COLUMN SIZES

C1	: 200 x 450 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
CRB1	: 200x300 mm
COVER	: 35mm

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



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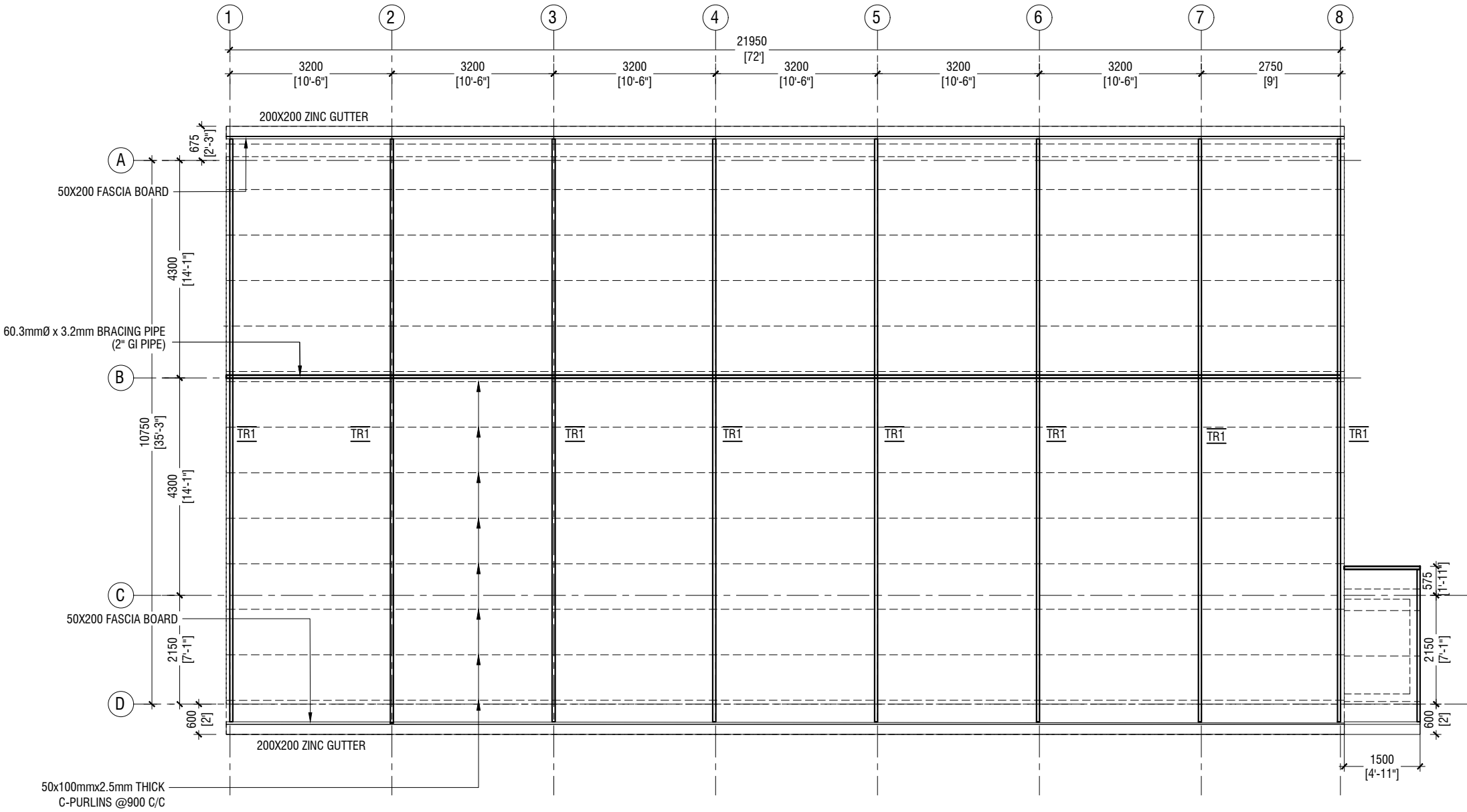
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Date: September 2019
Architect : Razana Amir
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Title: Roof Beam Plan - 2
(+6706)

Page: S-06/10



ROOF TRUSS & FRAMING PLAN

SCALE 1:100



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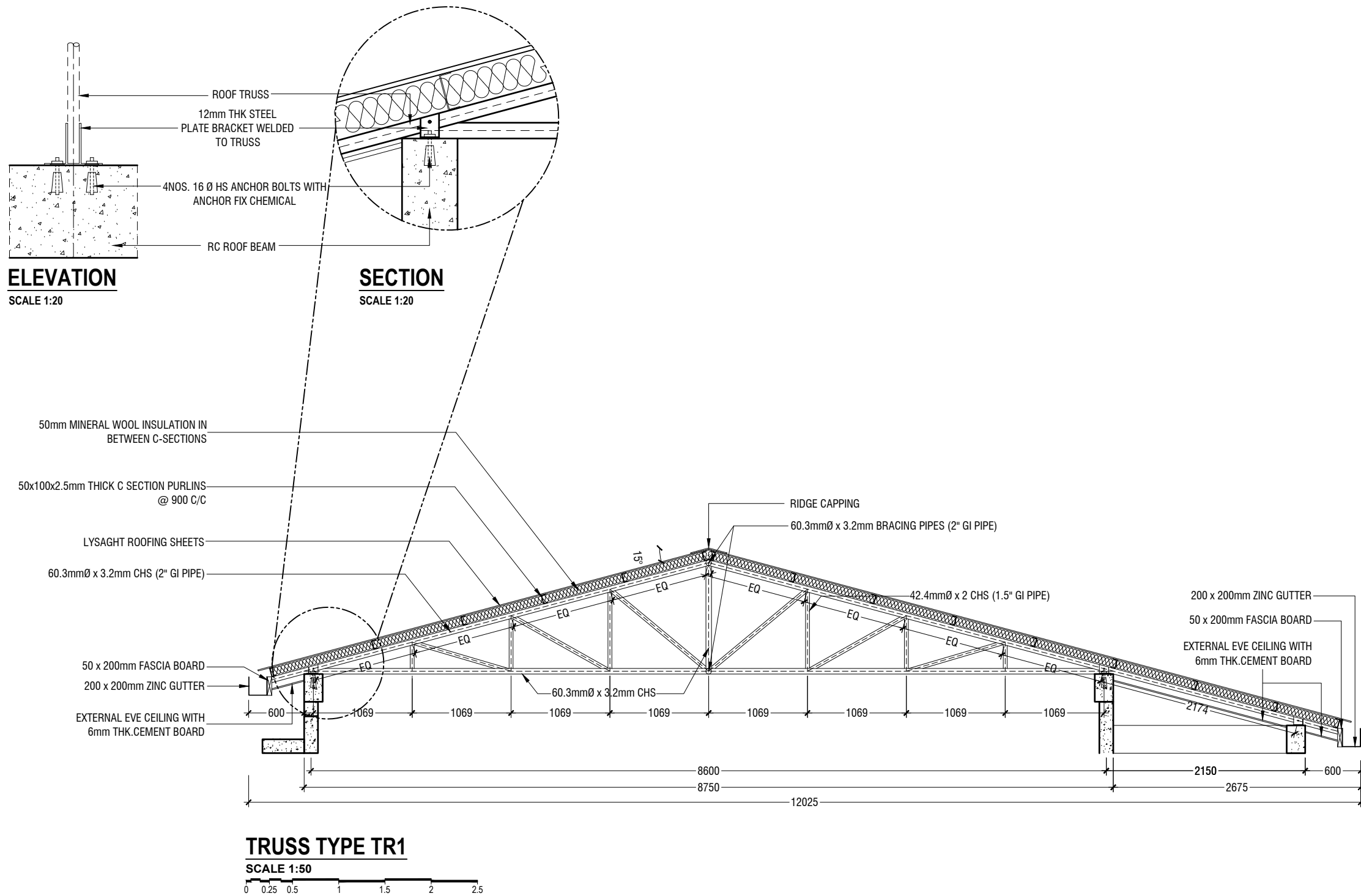
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Architect : Razana Amir
Engineer : Ahmed Zuhail Zaeem
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Interior : -

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Title: Roof Truss & Framing Plan

Page: S-07/10



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Title: Roof Truss Details

Page: S-08/10

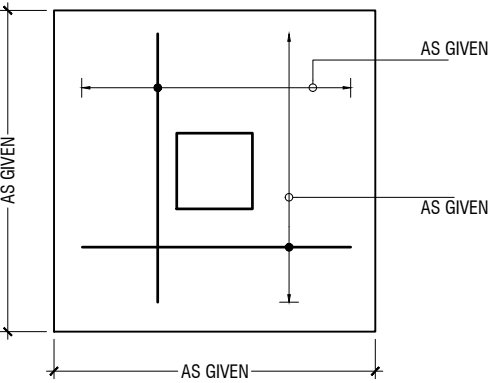
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F1	2300 x 2300 x 400	T12@100 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2100 x 2100 x 400	T12@125 C/C B/W (B) & T12@200 C/C B/W (T)
F3	1800 x 1800 x 350	T12@150 C/C B/W (B)
F4	1700 x 1700 x 350	T12@150 C/C B/W (B)
F5	1200 x 1200 x 350	T12@200 C/C B/W (B)
F6	800 x 800 x 350	T12@200 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

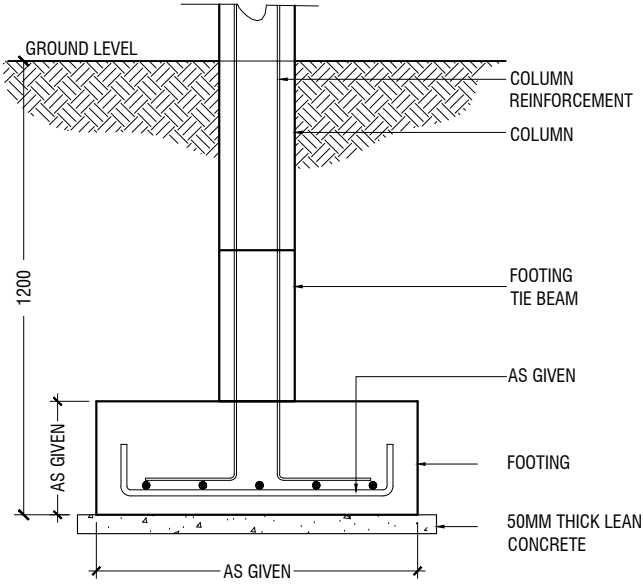
NOTE:-
COVER TO FOUNDATION = 50mm
COVER TO COLUMNS = 40mm
COVER TO BEAMS = 35mm
COVER TO SLAB = 30mm
LAPS = Ø OF BAR x 45
BEAMS @END SUPPORT = Ø OF BAR x 12

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

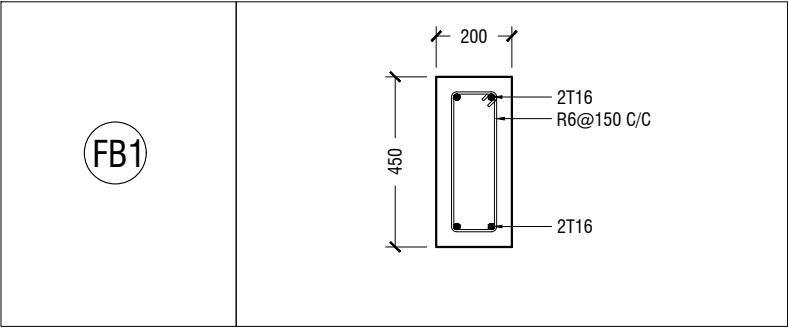
FOUNDATION PADS



PLAN



SECTION

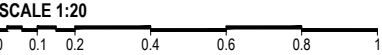


FOUNDATION DETAILS

	GROUND & 1ST FLOOR
C1	
C2	
C3	
C4	
SC	

COLUMN DETAIL

STRUCTURAL DETAILS - 1

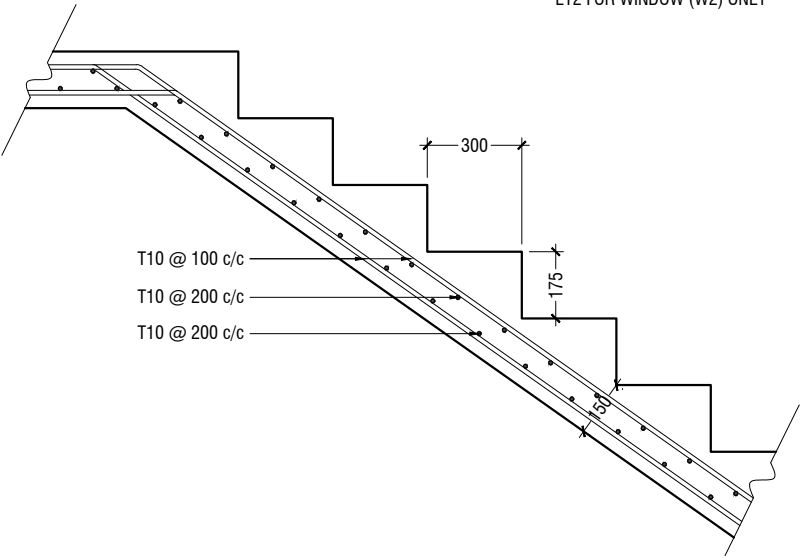


	MIDSPAN	SUPPORT
B1		
B2		
B3		
CB1		
RB1		

BEAM DETAIL

CRB1	
LB1	
LB2	

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

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1