

Proposed Multipurpose Hall Building at
R.Alifushi School

ARCHITECTURAL & STRUCTURAL DRAWINGS

Client: Ministry of Education



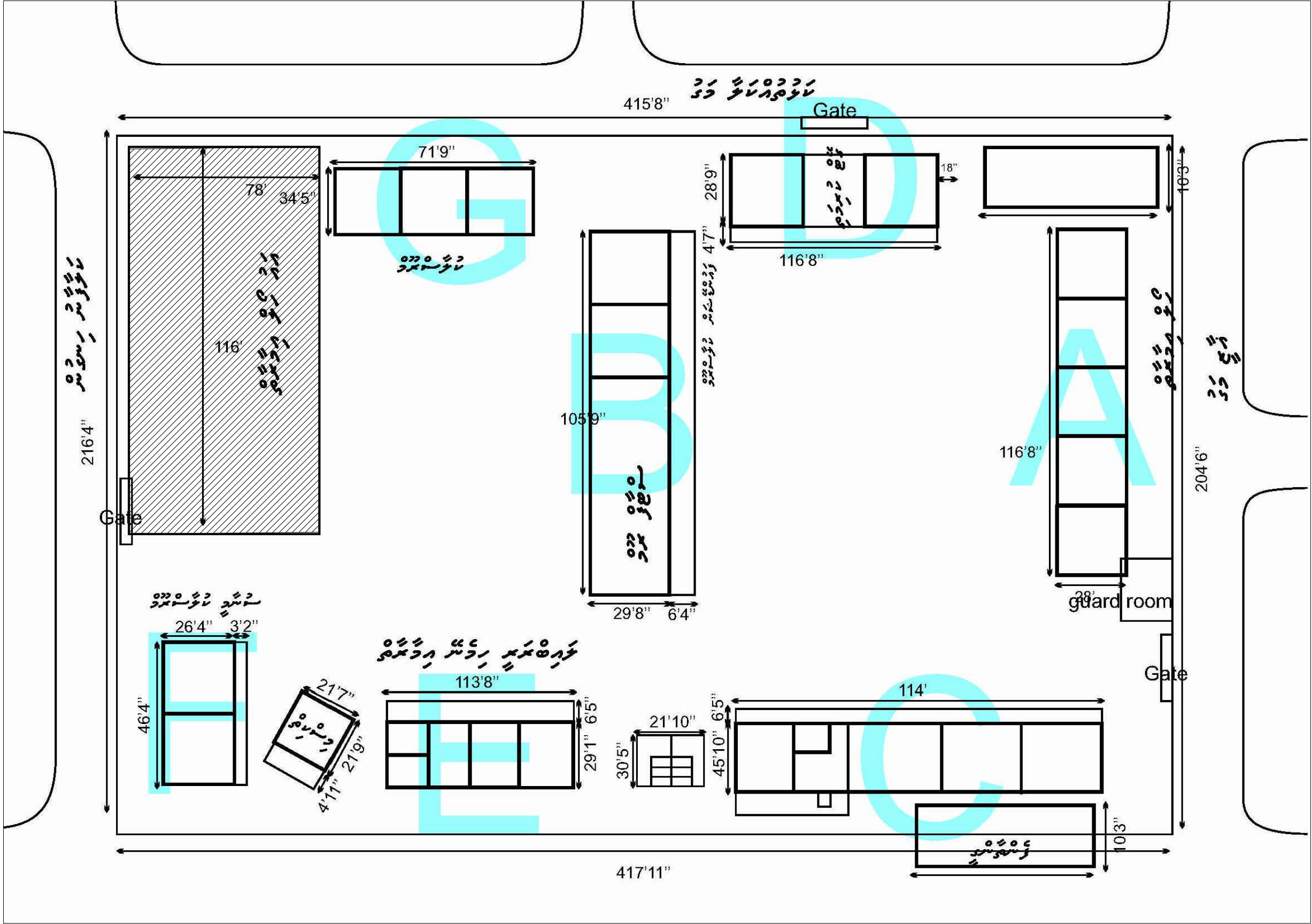
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3rd floor, H. Azum, Ammeenemagu, Male'

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SITE PLAN



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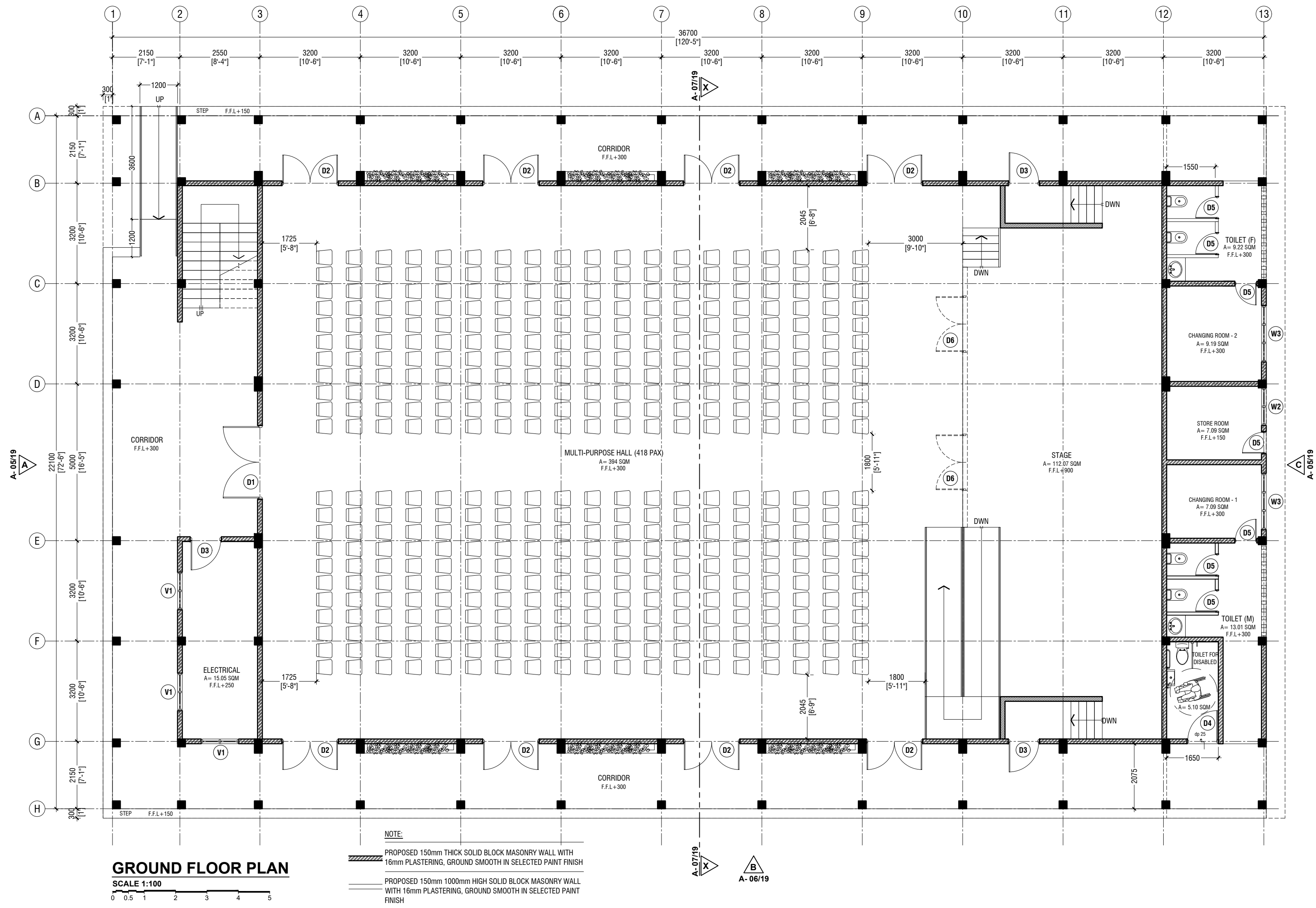
Title: Site Plan

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RAlifushi School Hall
Client: Ministry of Education

Project Number: RI/2017/012	Date
Date: June 2019	11 June 2019
Architect: Razana Amir	
Engineer: Ahmed Zuhail Zaeem	
Drawn by: Razana Amir	
Services: Alifathi Ahmed	
Interior: -	

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R.Alfush School Hall
Client: Ministry of Education

Project Number: RI/2017/02
 Architect: Razana Amir
 Engineer: Ahmed Zuhail Zaeem
 Drawn by: Razana Amir
 Services: Alifush Ahmed
 Interior

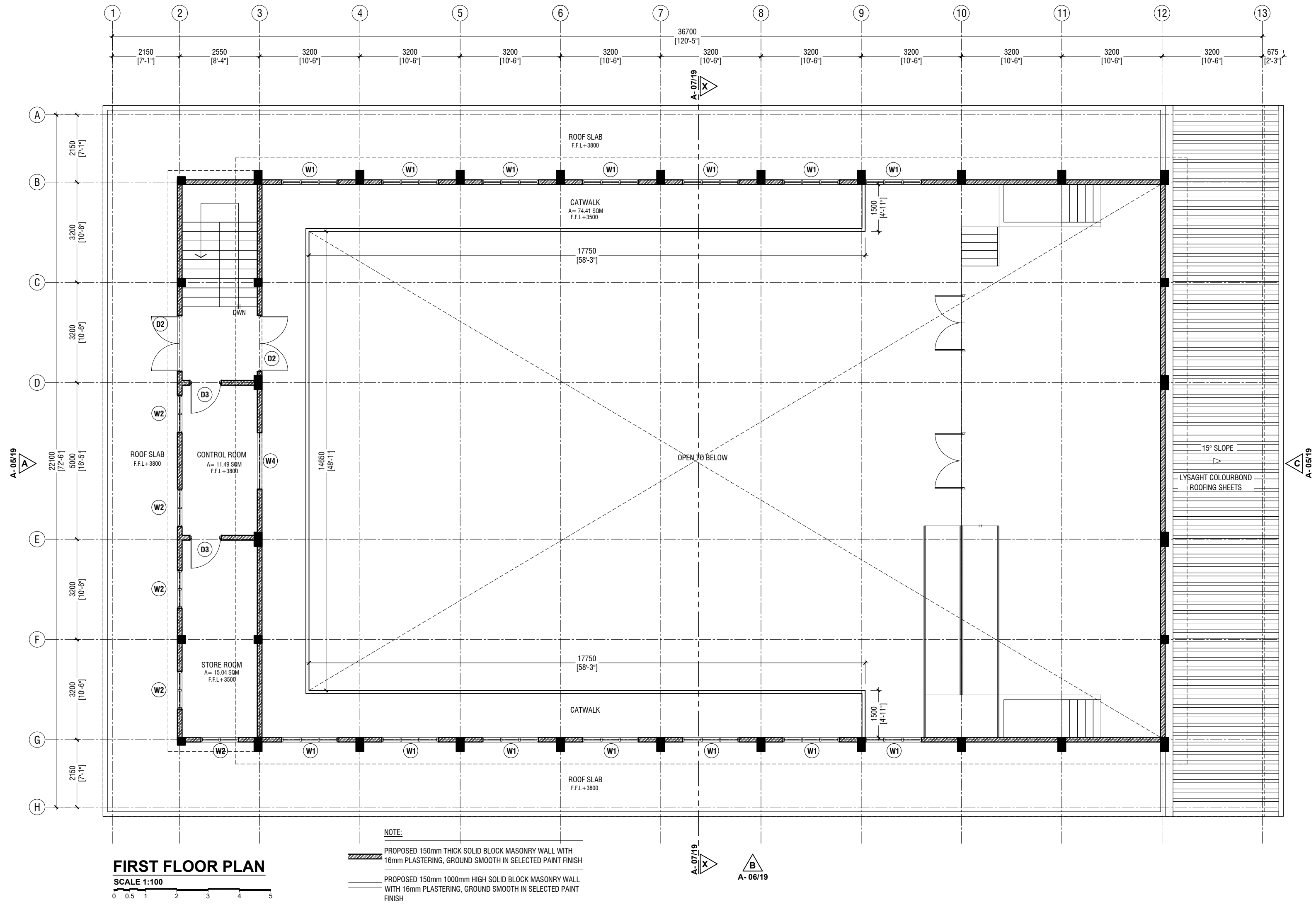
Rev no	Date
01	11 June 2019

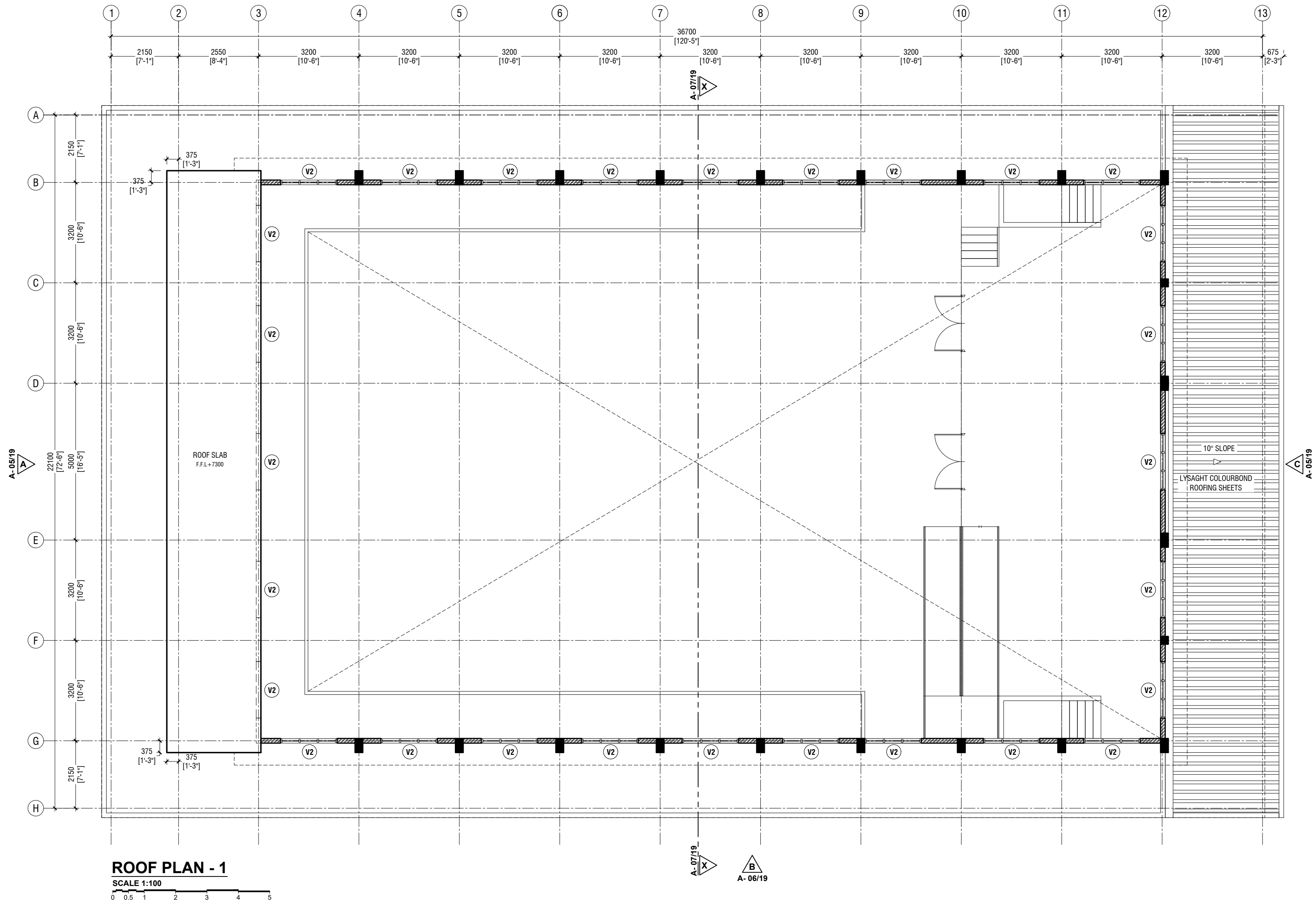
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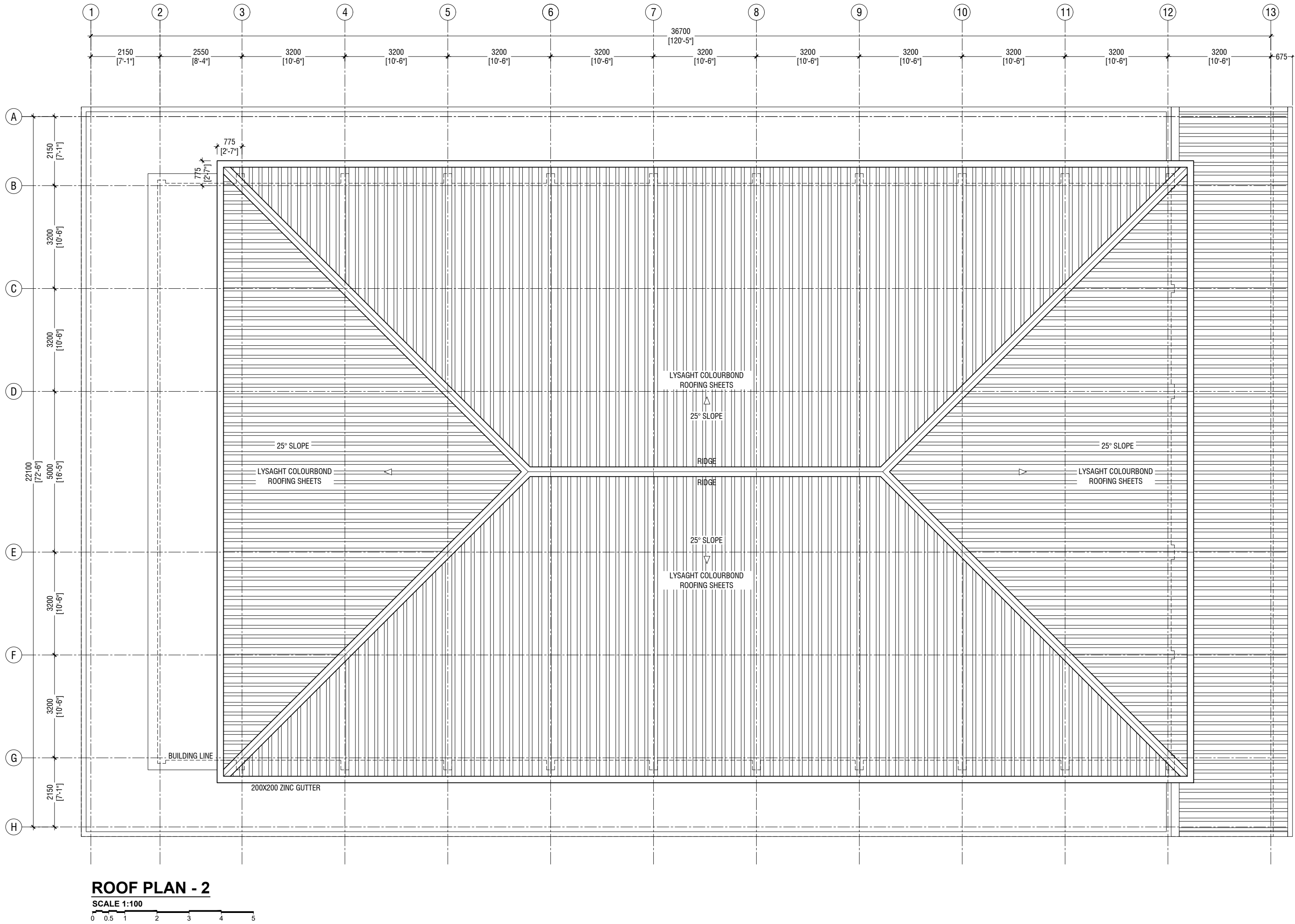
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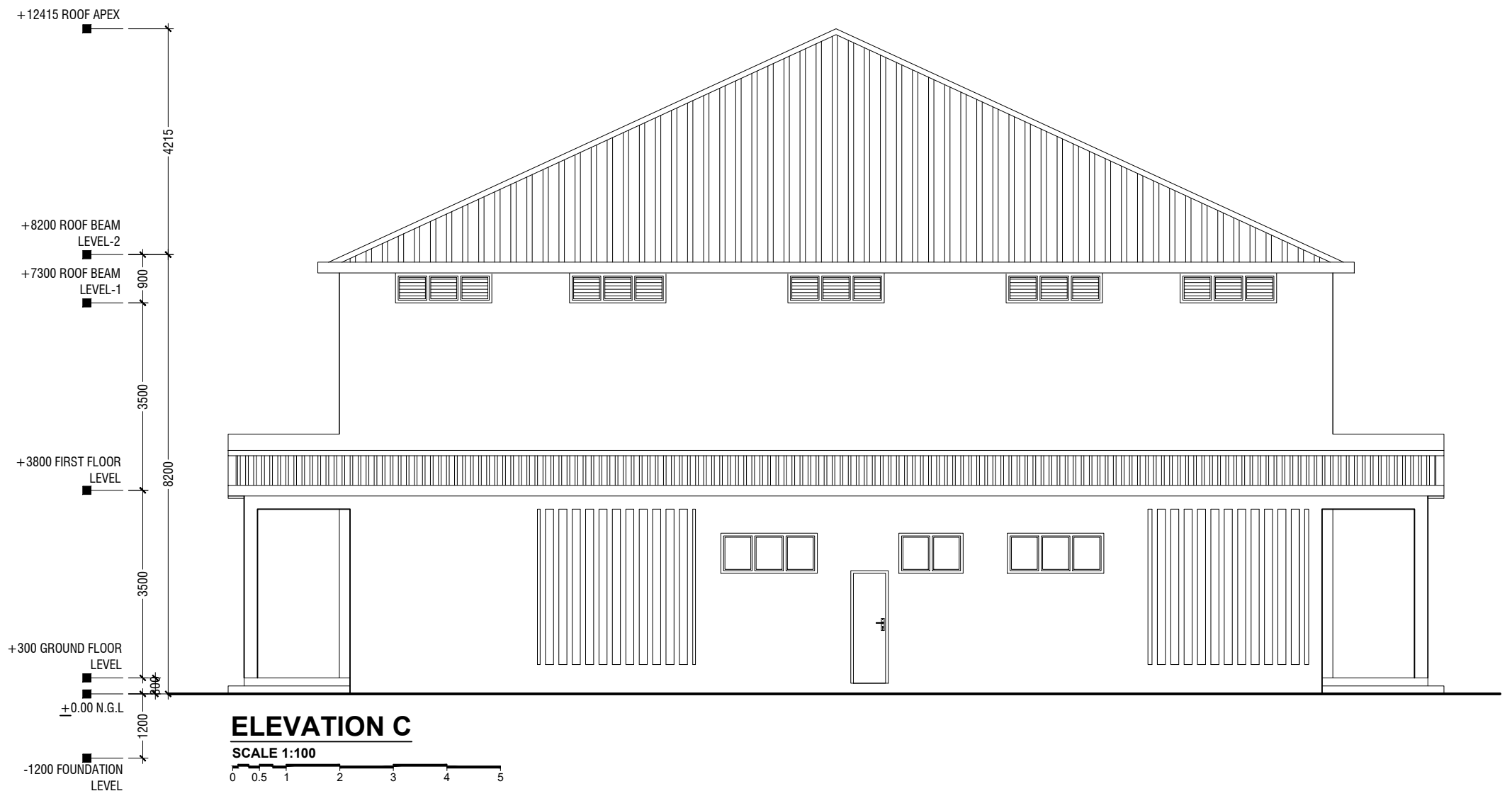
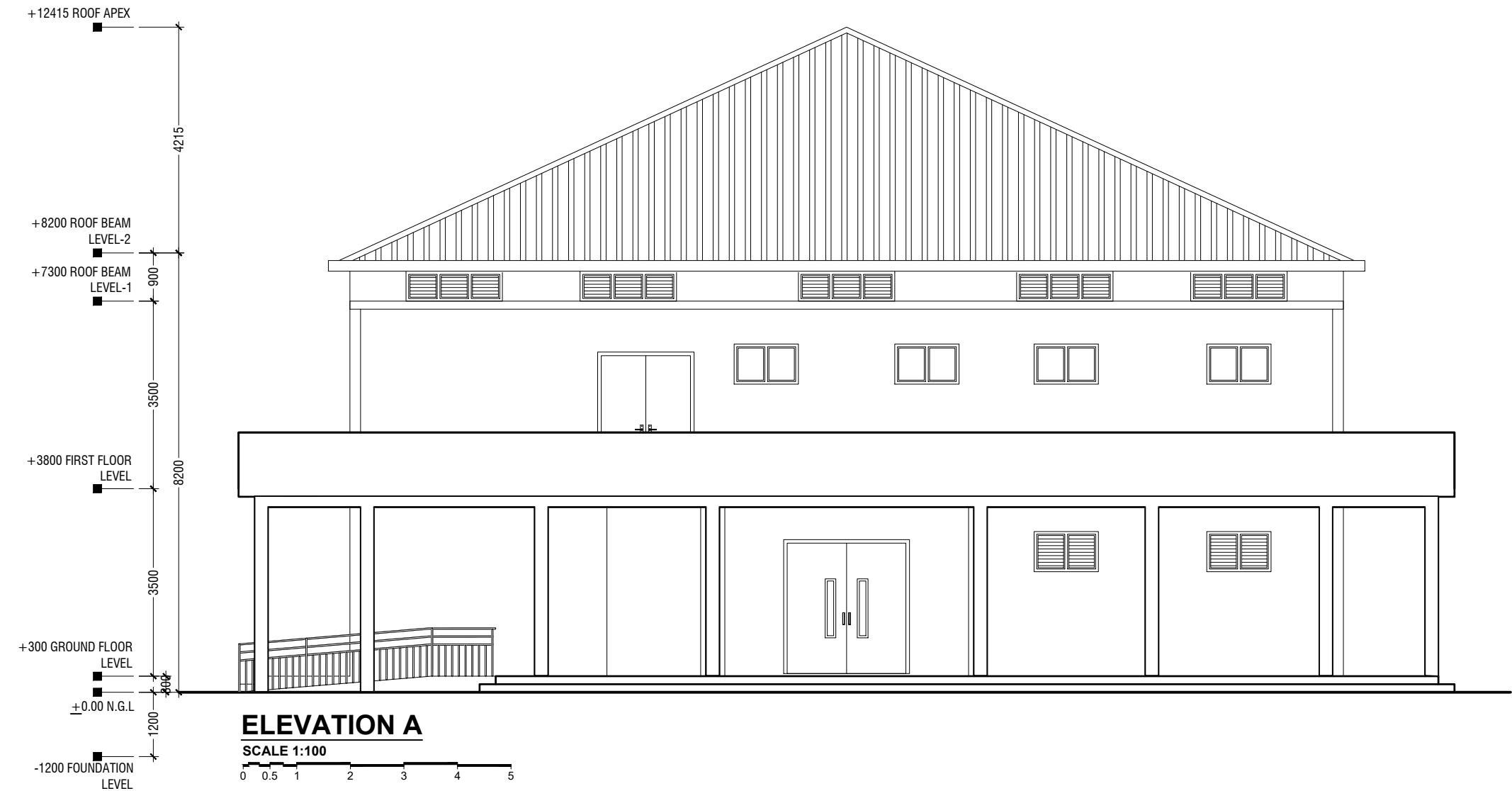
Title: Ground Floor Plan
 Page: A-01/19

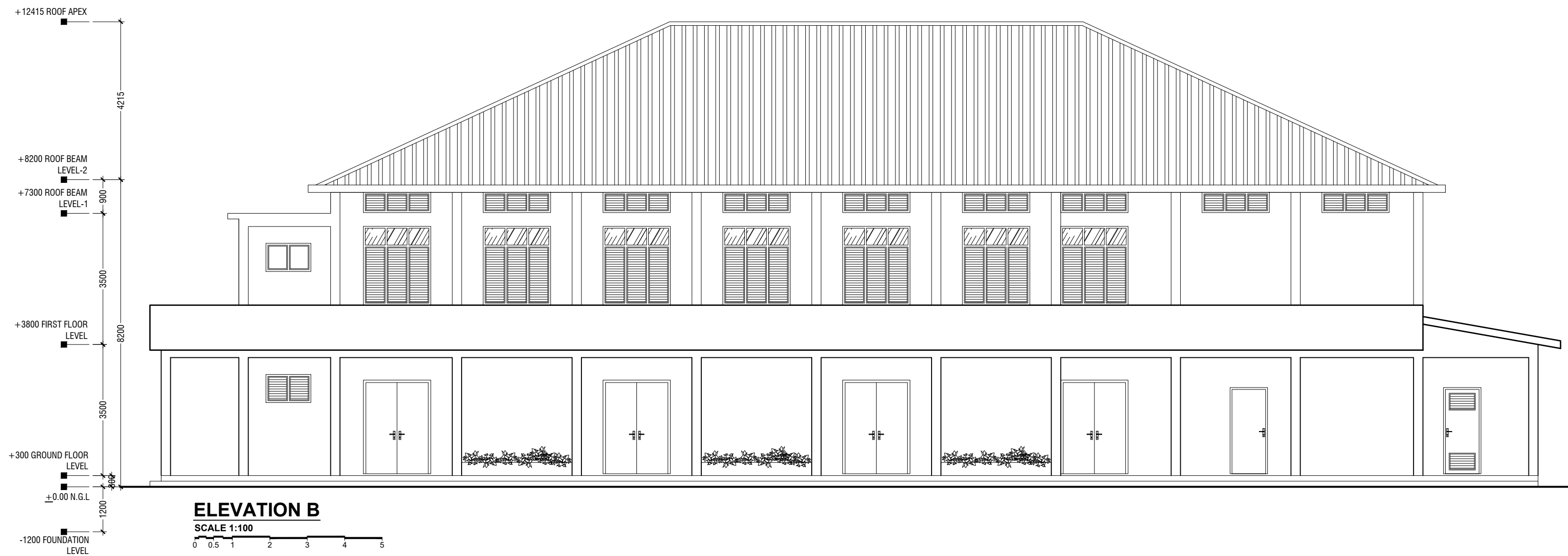
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R.Alifush School Hall
Client: Ministry of Education

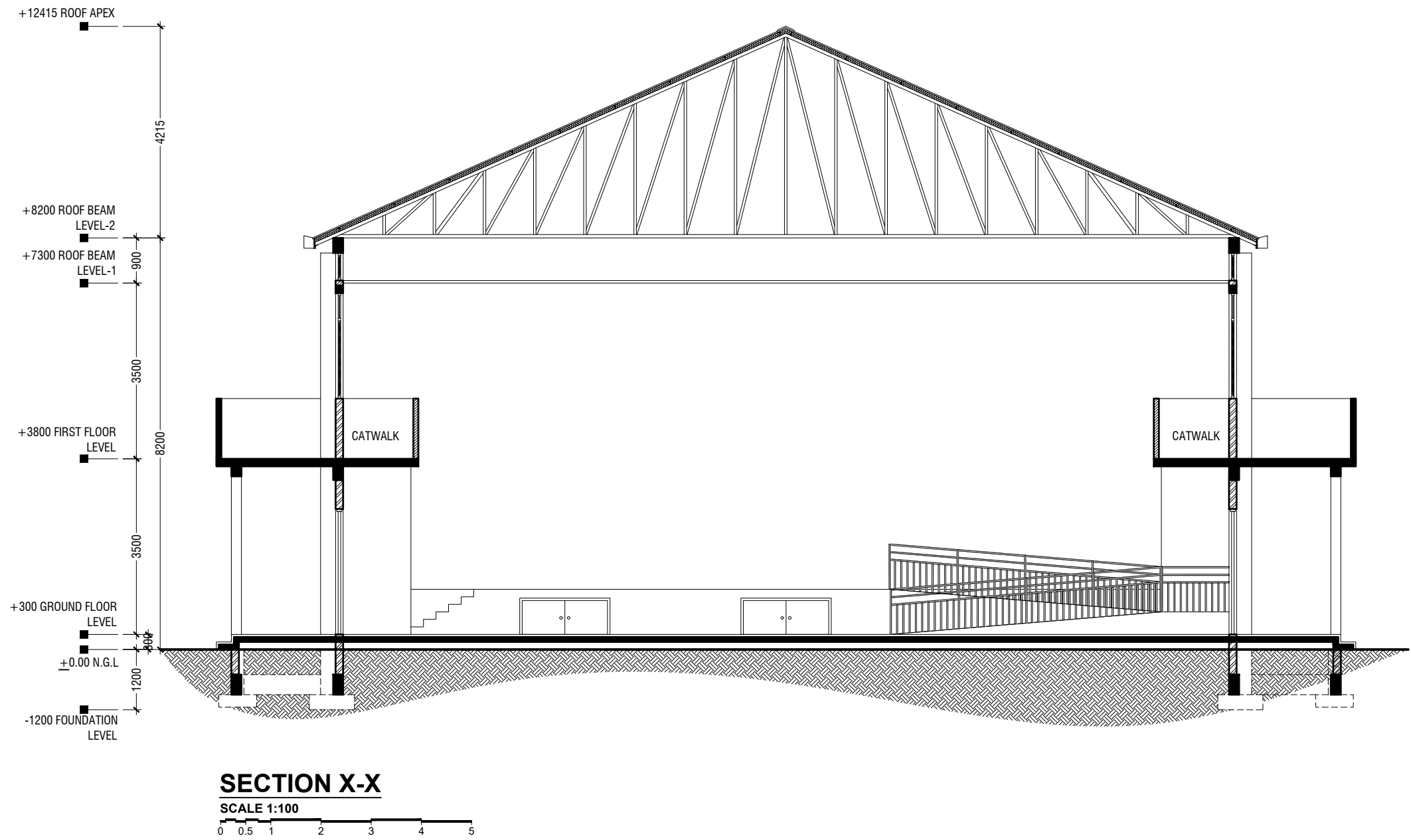
Project Number	Rev no	Date
RI/2017/002	01	11 June 2019
Architect: Razana Amir	--	-----
Engineer: Ahmed Z. J. Al-Zahrani	--	-----
Drawn by: Razana Amir	--	-----
Services: Alifush Ahmed	--	-----
Interior:	--	-----

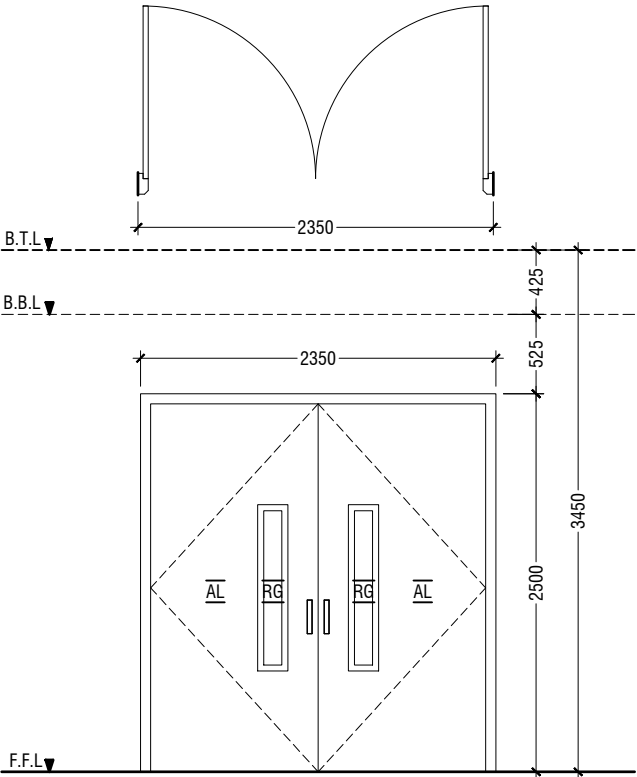


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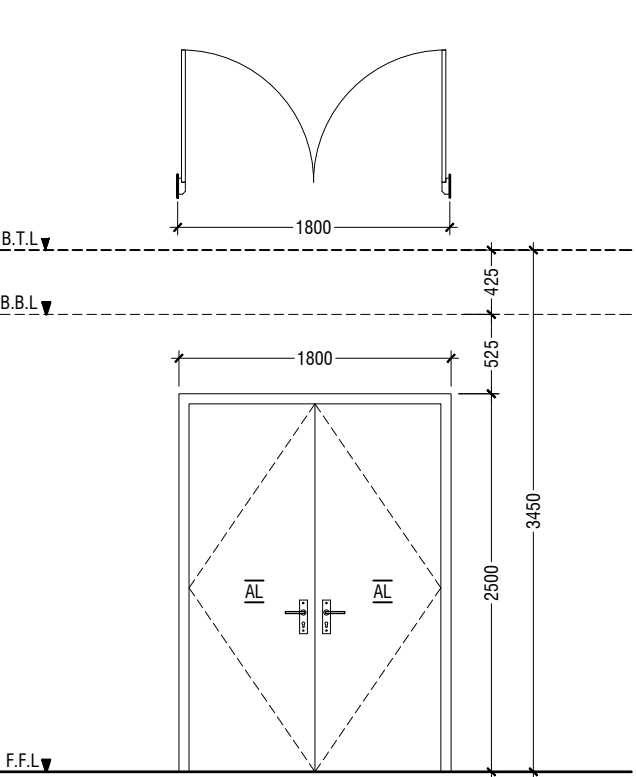
Title: Elevation B
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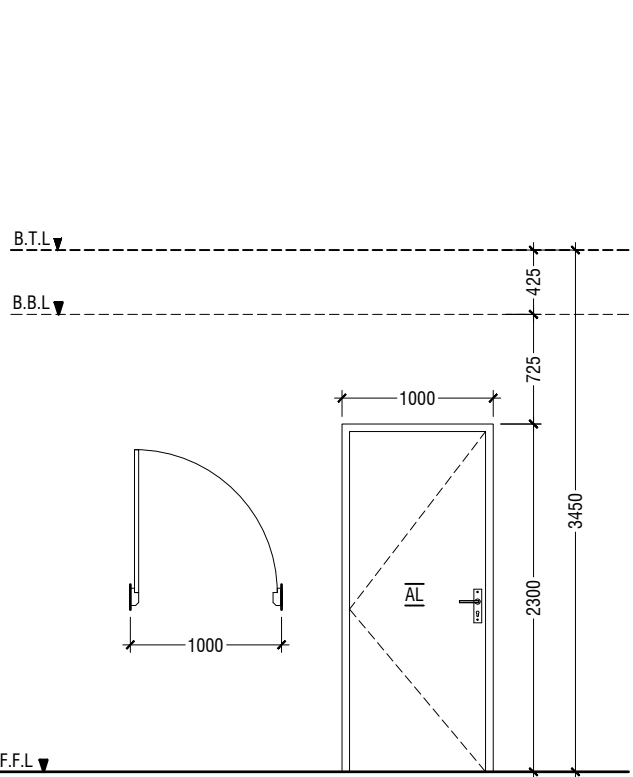




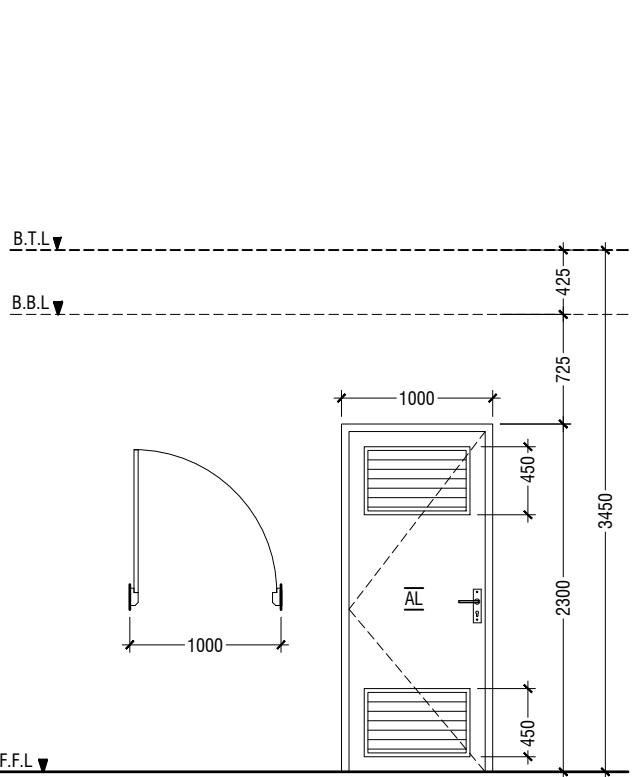
D1	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL GLASS ON PANEL : 6mm THK REFLECTIVE GLASS
LOCATION	HALL MAIN ENTRANCE
QUANTITY	01 NOS
OPEN AREA	5.39 sqm



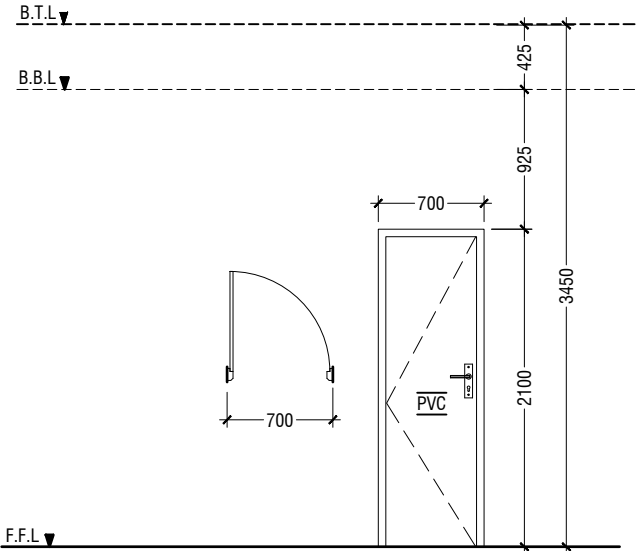
D2	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	HALL ENTRANCE
QUANTITY	10 NOS
OPEN AREA	4.05 sqm



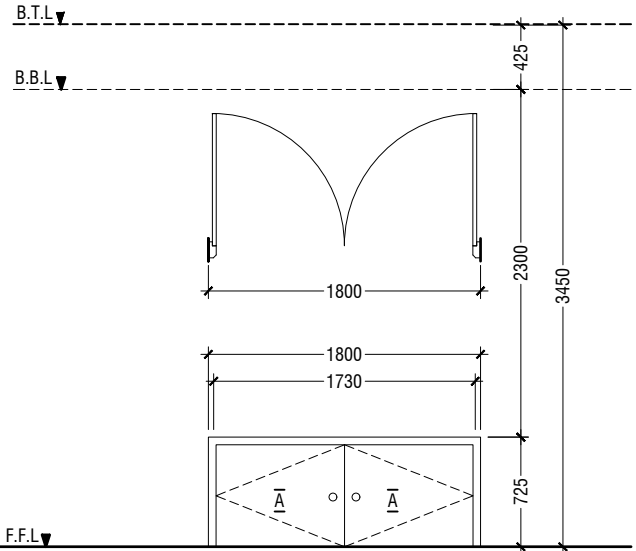
D3	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	STAGE, CONTROL ROOM & STORE ROOM
QUANTITY	05 NOS
OPEN AREA	2.03 sqm



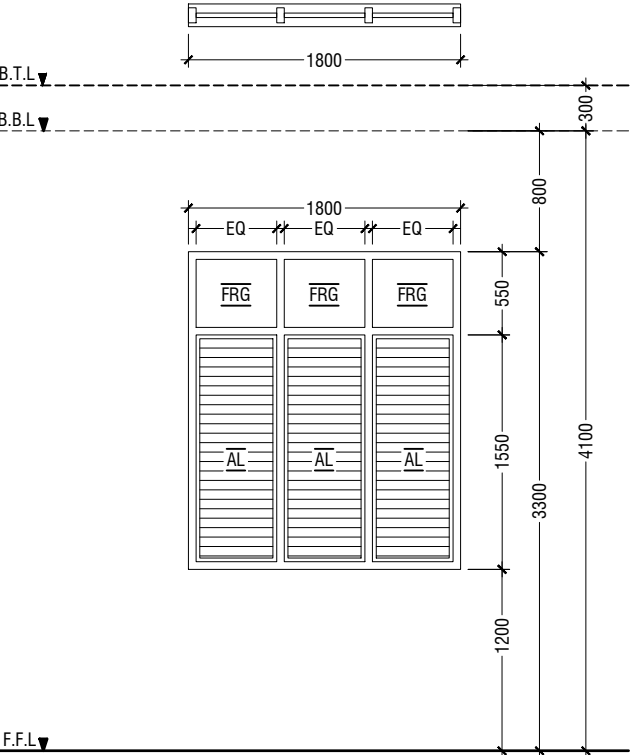
D4	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS
LOCATION	DISABLED TOILET
QUANTITY	01 NOS
OPEN AREA	2.03 sqm



D5	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS, CHANGING ROOM & STORE ROOM
QUANTITY	07 NOS
OPEN AREA	1.23 SQM



D6	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	STAGE STORE ACCESS
QUANTITY	02 NOS
OPEN AREA	1.15 SQM

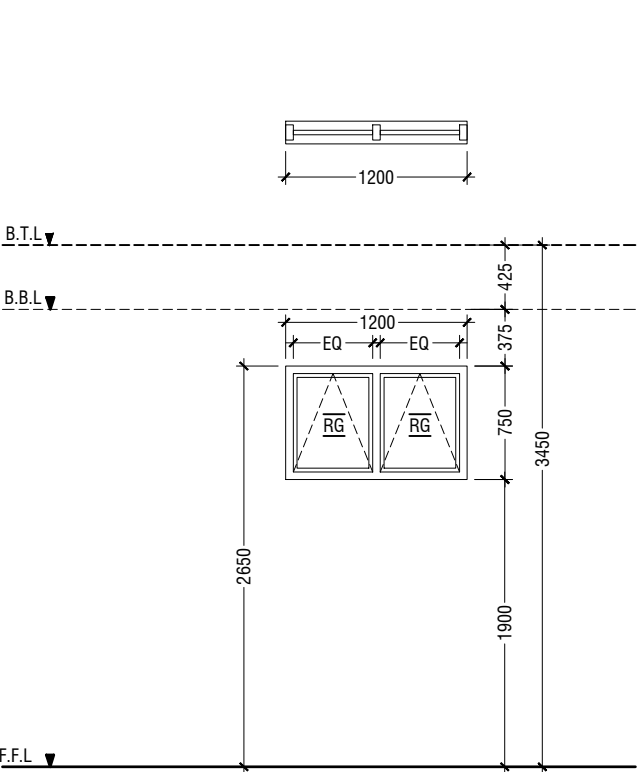


W1	WINDOW WITH FIXED GLASS & ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS AND 6mm THICK REFLECTED FIXED GLASS PANELS
LOCATION	HALL
QUANTITY	14 NOS
OPEN AREA	2.40 sqm

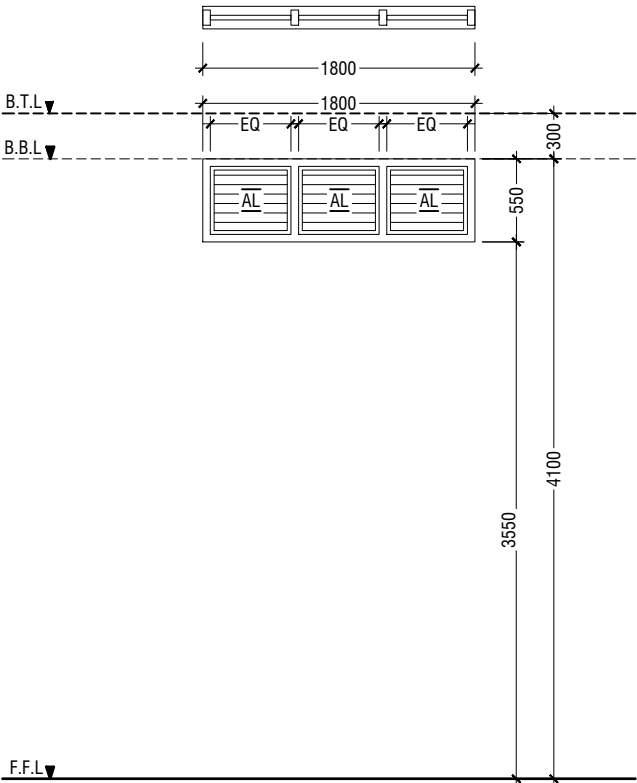
LEGEND:
FCG - FIXED CLEAR GLASS
FRG - FIXED REFLECTED GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

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.

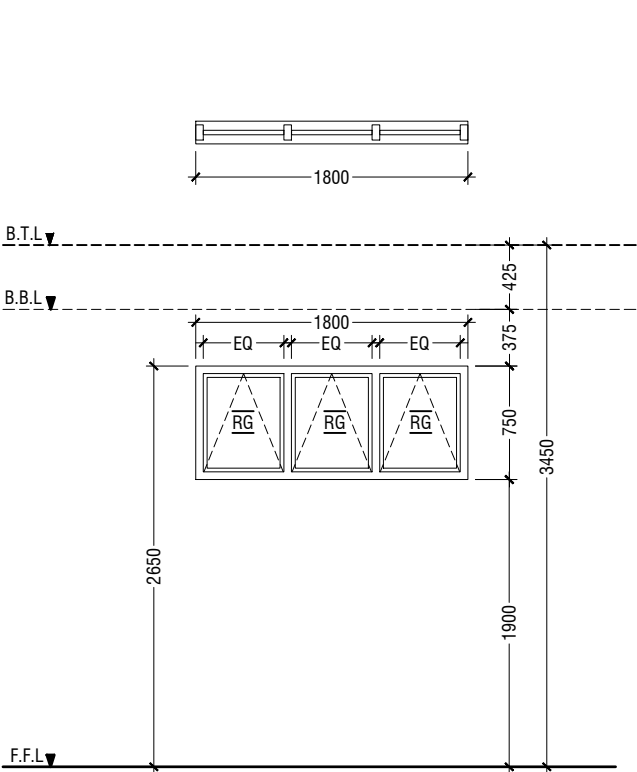
DOOR / WINDOW SCHEDULE - 1
SCALE 1:50
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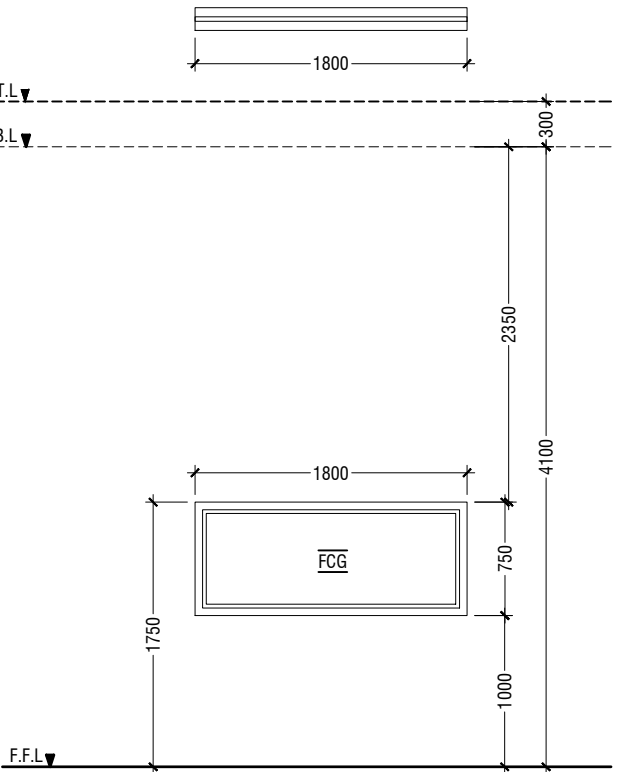
W2	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	STORE ROOM
QUANTITY	06 NOS
OPEN AREA	0.68 sqm



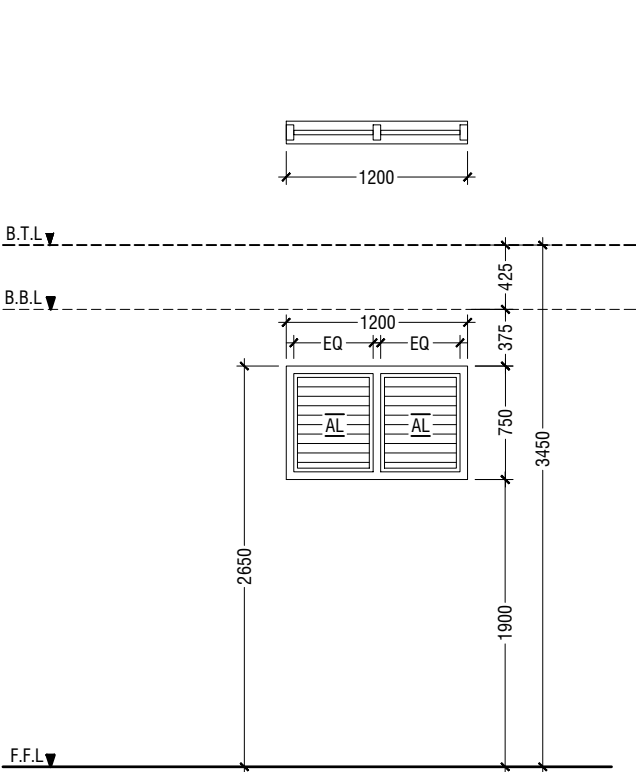
V2	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ABOVE HALL CEILING
QUANTITY	28 NOS
OPEN AREA	0.72 sqm



W3	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	CHANGING ROOMS
QUANTITY	02 NOS
OPEN AREA	1.04 sqm



W4	FIXED WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK CLEAR GLASS PANEL
LOCATION	CONTROL ROOM
QUANTITY	01 NOS
OPEN AREA	- sqm



V1	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ELECTRICAL ROOM
QUANTITY	03 NOS
OPEN AREA	0.68 sqm

SCHEDULE OF VENTILATION FOR R.ALIFUSHI SCHOOL

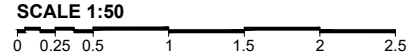
	Room name	Room Areas (sqm) (Specify centre to centre or clear)	Window (opening) number	Required opening areas (sqm)	Designed opening areas (sqm)	Open %
	Ground Floor					
1	Multi-purpose Hall	394.00	D1, 8*D2 & 14*W1	39.40	71.39	18.12%
2	Electrical	15.05	3*V1	1.51	2.04	13.55%
3	Changing Room -1	7.09	W3	0.71	1.04	14.67%
4	Changing Room -2	9.19	W3	0.92	1.04	11.32%
5	Store Room	7.09	D2 & W2	0.71	4.73	66.71%
6	Toilet for Disable	5.10	D4	0.51	2.03	39.80%
7	Toilet (Male)	13.01	RC FINS			
8	Toilet (Female)	9.22	RC FINS			
	First Floor					
9	Control Room	11.49	2*W2	1.15	1.36	11.84%
10	Store Room	15.04	3*W2	1.50	2.04	13.56%

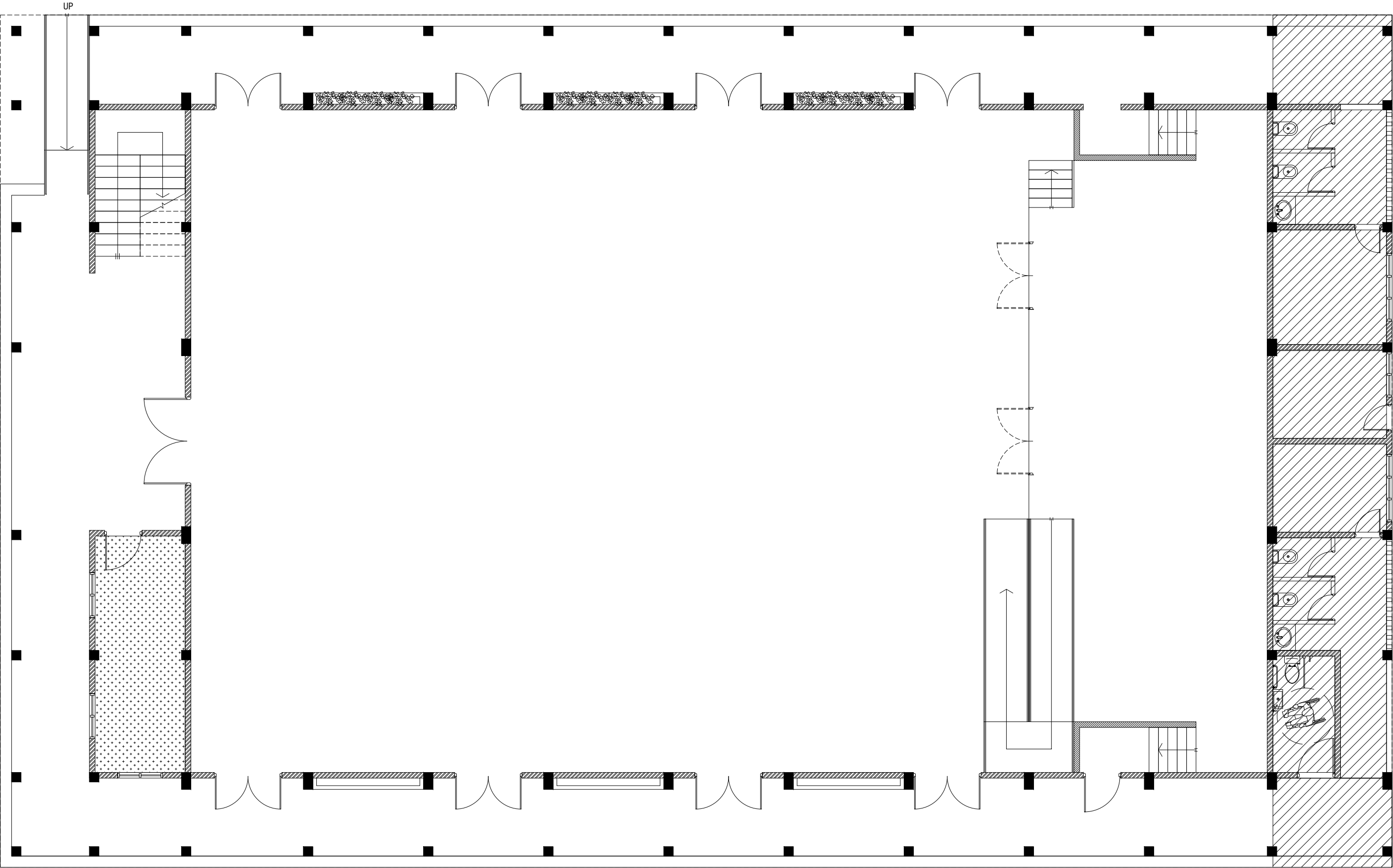
VENTILATION SCHEDULE

LEGEND:
FCG - FIXED CLEAR GLASS
FRG - FIXED REFLECTED GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

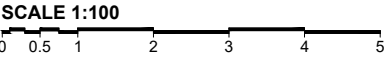
NOTE:-
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- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

DOOR / WINDOW SCHEDULE - 2





**GROUND FLOOR
REFLECTED CEILING PLAN**



LEGEND

CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE FINISHED WITH GROUND SMOOTH FINISH IN SELECTED PAINT
	CEMENT BOARD CEILING

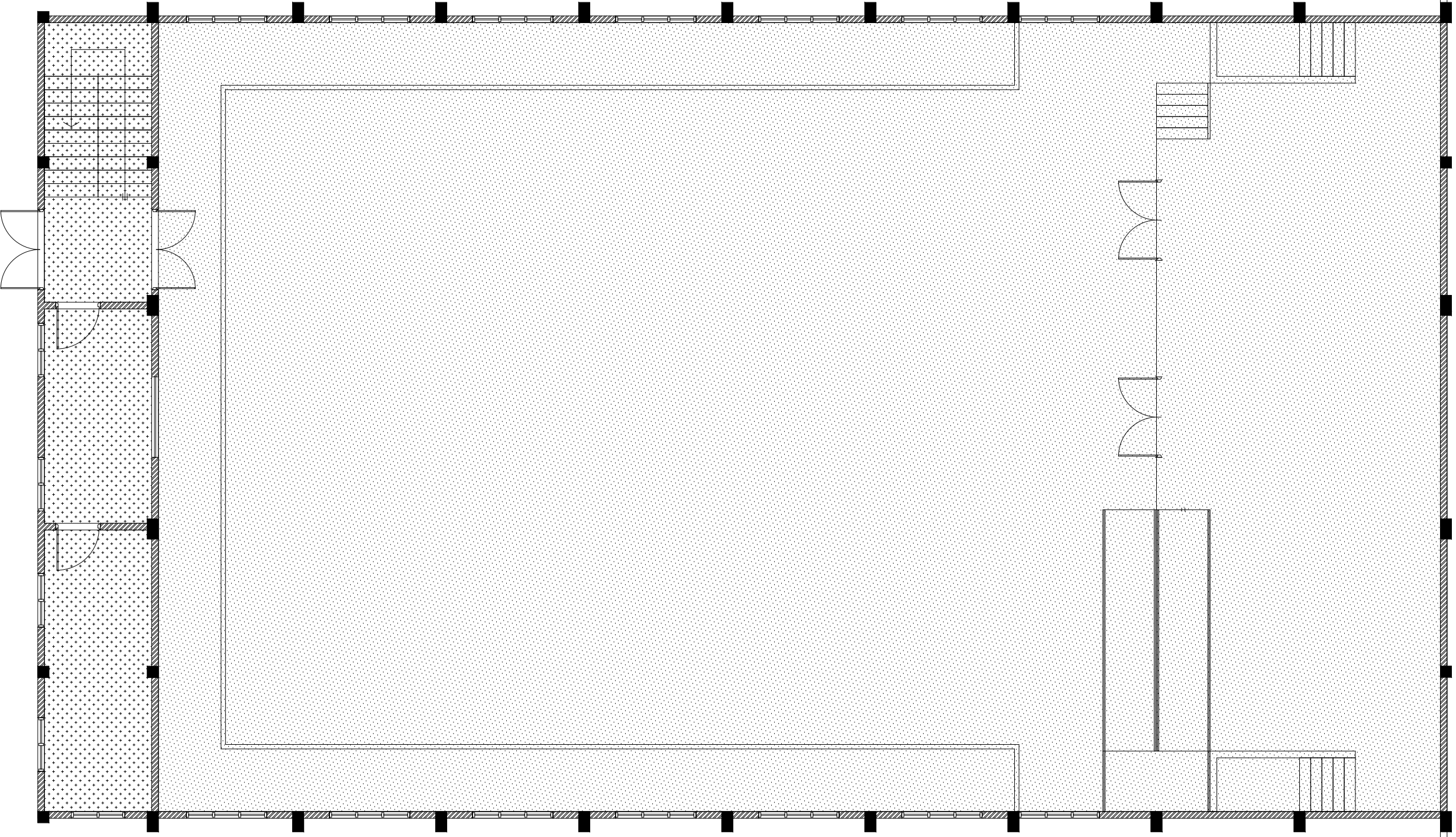
RAlifushi School Hall
Client: Ministry of Education

Project Number: RI/2017/012	Rev no	Date
Date: June 2019	01	11 June 2019
Architect: Razana Amir	--	-----
Engineer: Ahmed Zuhail Zaeem	--	-----
Drawn by: Razana Amir	--	-----
Services: Alshath Ahmed	--	-----
Interior: -	--	-----



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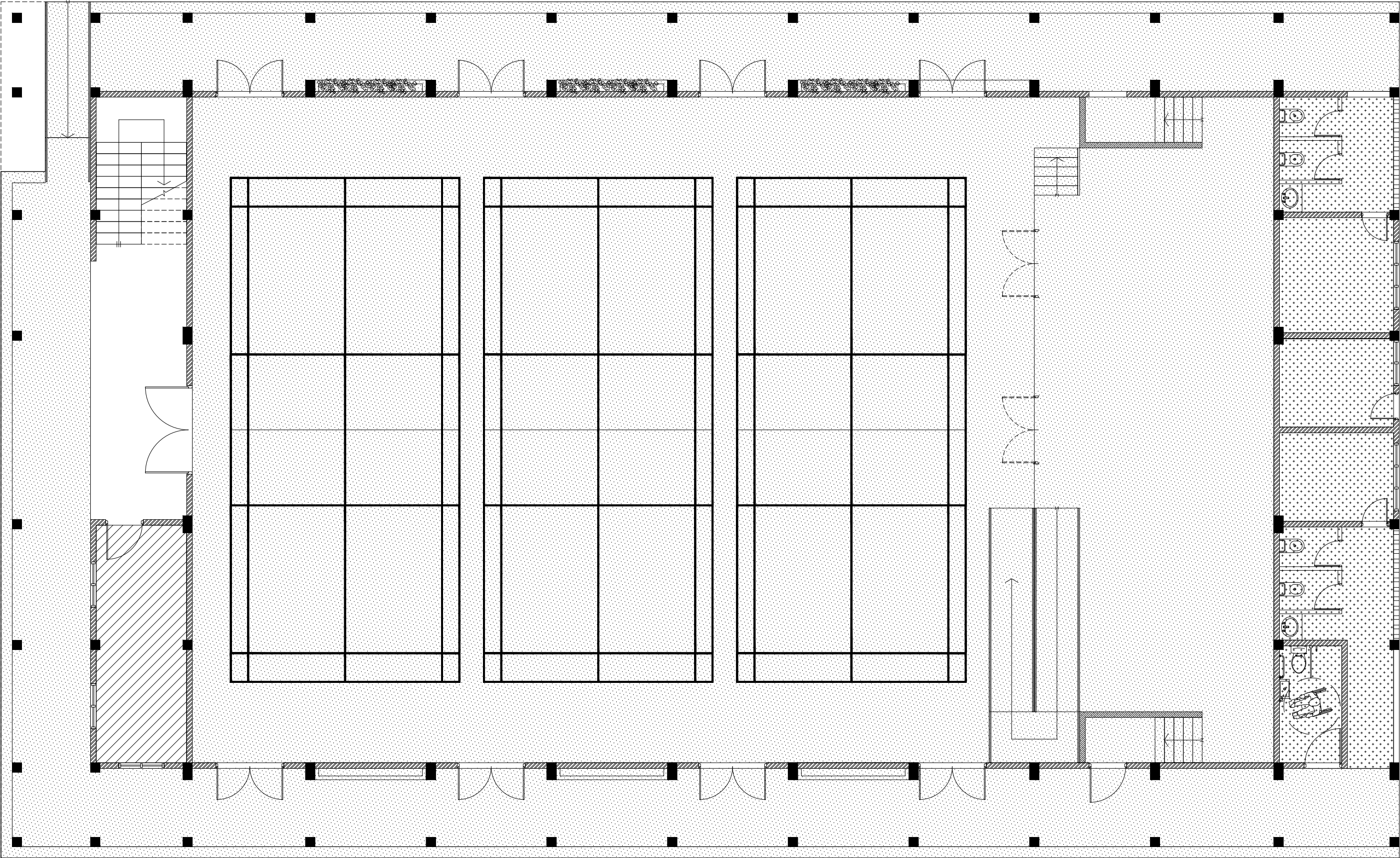


**FIRST FLOOR
REFLECTED CEILING PLAN**

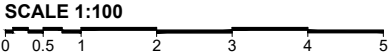
SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND	
CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE FINISHED WITH GROUND SMOOTH FINISH IN SELECTED PAINT
	SUSPENDED ACOUSTIC CEILING SYSTEM WITH ALUMINUM FRAMING CEILING HEIGHT : +7300mm



GROUND FLOOR
FLOOR FINISHES PLAN



LEGEND

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

	300X300mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
--	---

NOTE:
BADMINTON COURT TO BE DRAWN ON WITH ELASTOMETRIC PAINT IN SELECTED PAINT FINISH

RAlifushi School Hall
Client: Ministry of Education

Project Number: RI/2017/012	Rev no	Date
Date: June 2019	01	11 June 2019
Architect: Razana Amir	--	-----
Engineer: Ahmed Zuhail Zaeem	--	-----
Drawn by: Razana Amir	--	-----
Services: Aishath Ahmed	--	-----
Interior: -	--	-----

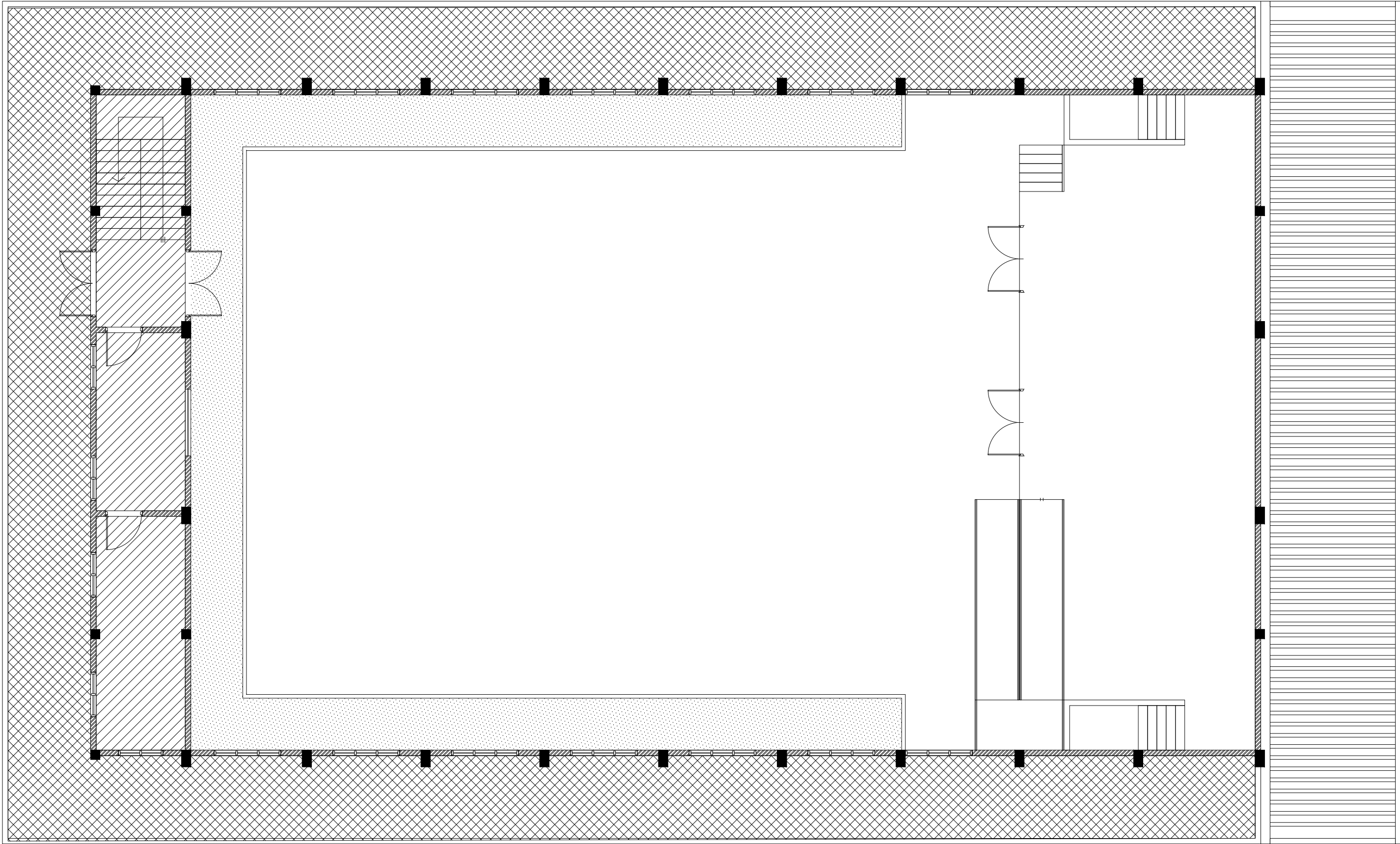
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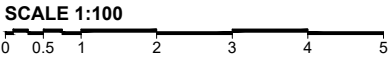
Title: Door / Window
Schedule - 2

Page: A-12/19


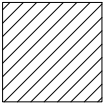
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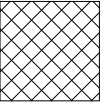


FIRST FLOOR
FLOOR FINISHES PLAN



LEGEND

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

	SELF LEVELLING CEMENT FLOOR SCREED WITH BITUMINOUS WATERPROOFING AGENT
---	--

R.Alifushi School Hall
Client: Ministry of Education

Project Number: RI/2017/012	Rev no	Date
Date: June 2019	01	11 June 2019
Architect: Razana Amir	--	-----
Engineer: Ahmed Zuhail Zaeem	--	-----
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Services: Aishath Ahmed	--	-----
Interior: -	--	-----



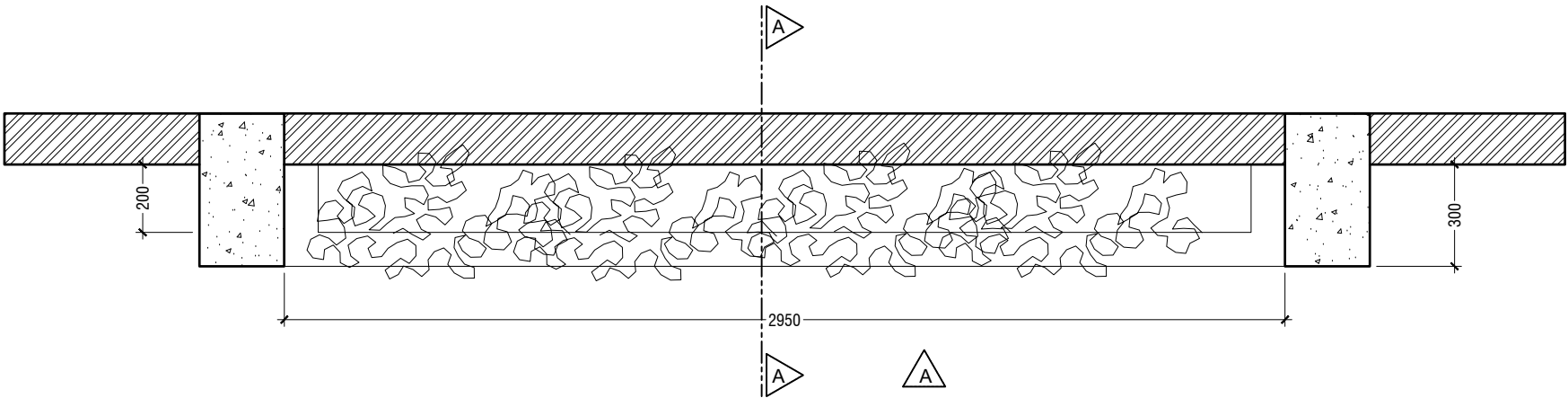
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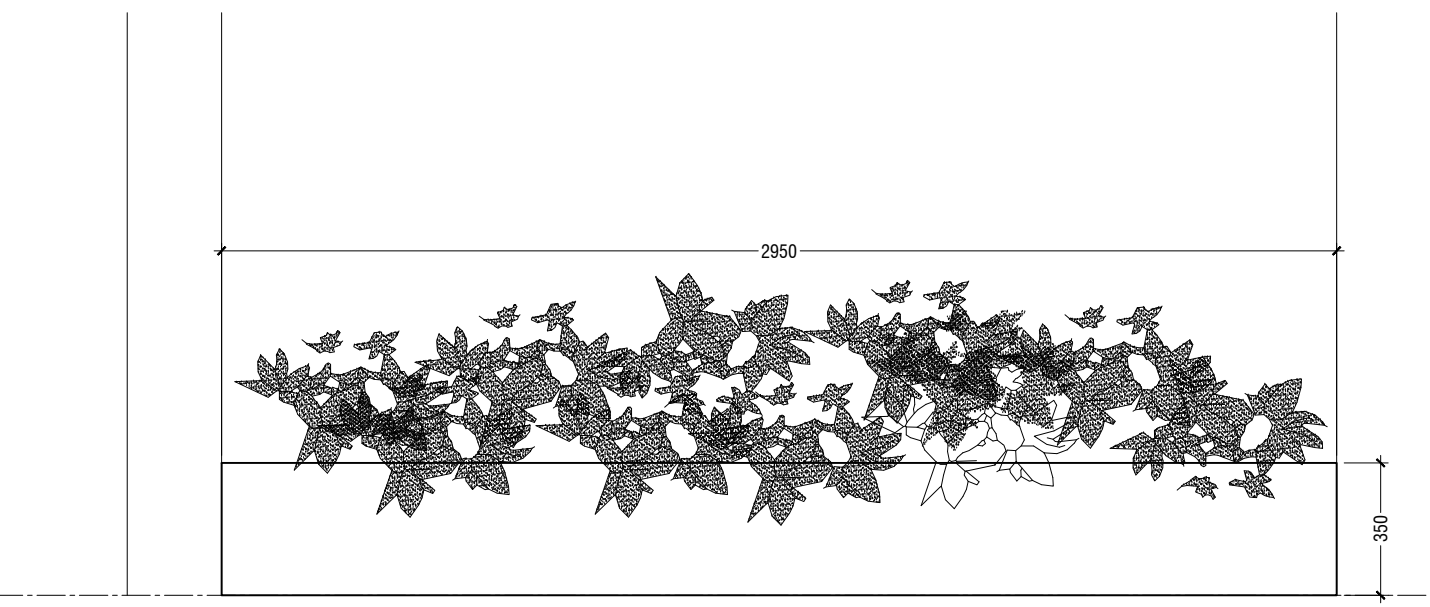
Title: Door / Window
Schedule - 2

Page: A-13/19

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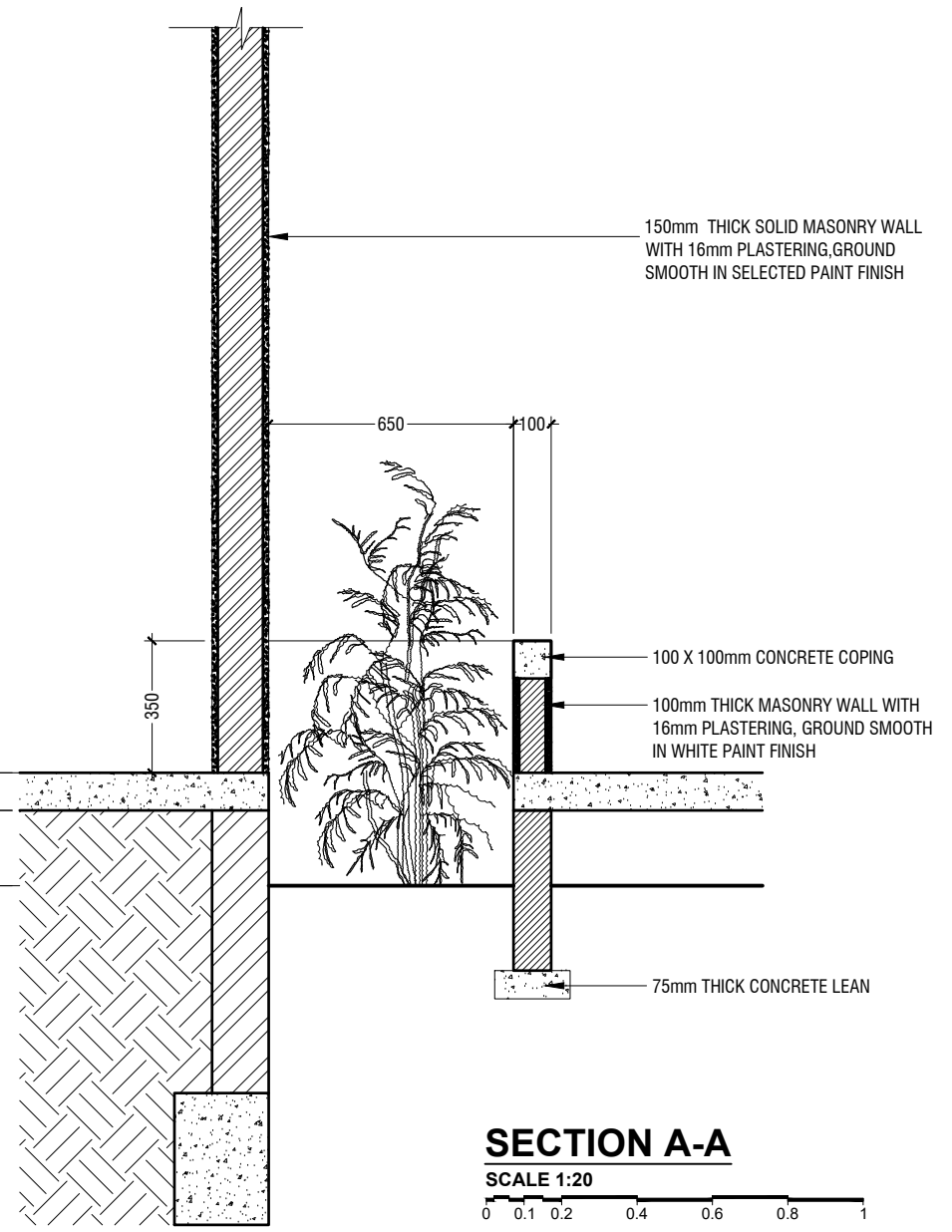


PLAN
SCALE 1:20

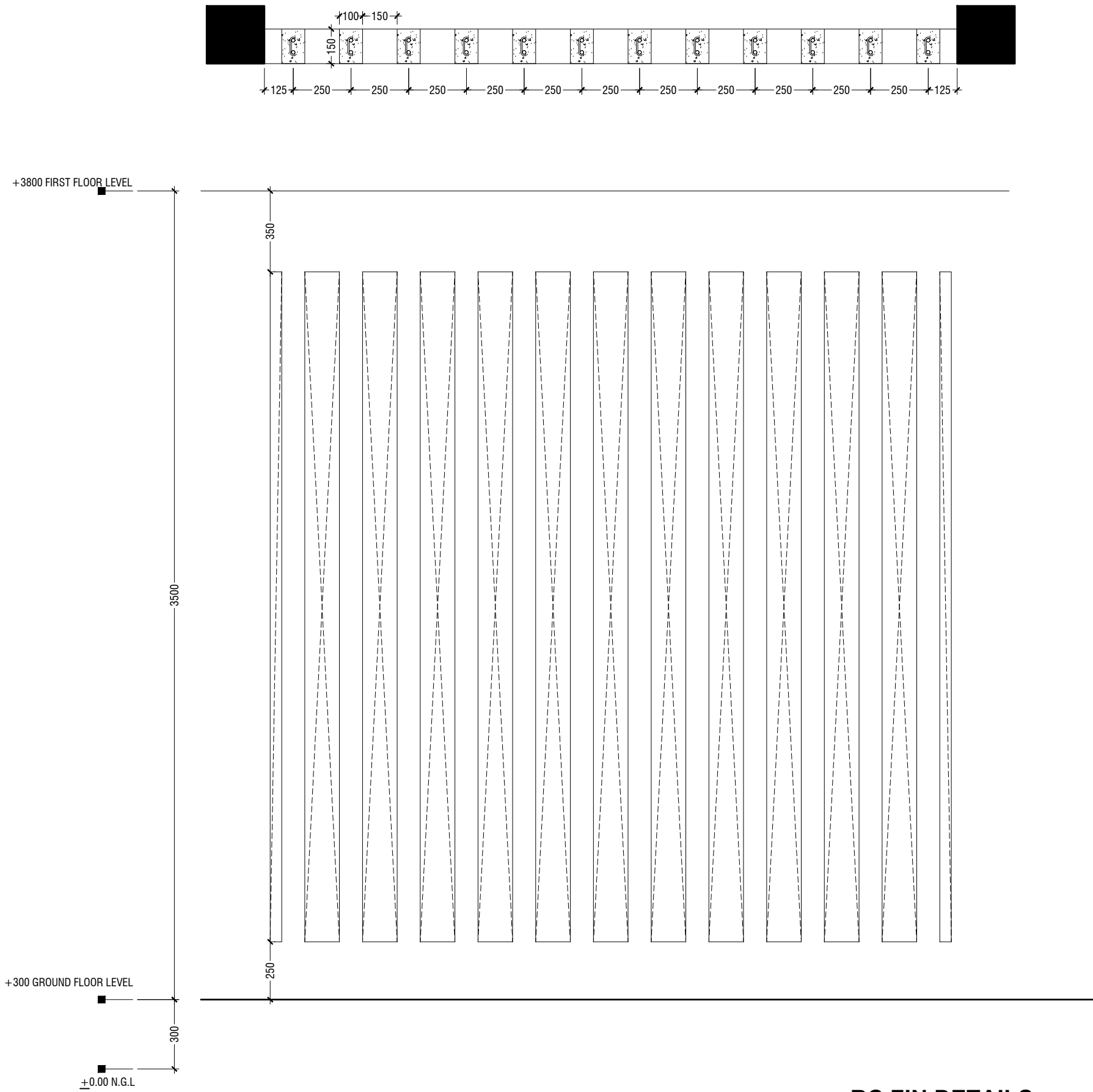


ELEVATION A
SCALE 1:20

PLANTER BOX DETAILS



SECTION A-A
SCALE 1:20



RC FIN DETAILS

SCALE 1:20



RAlifushi School Hall
Client: Ministry of Education

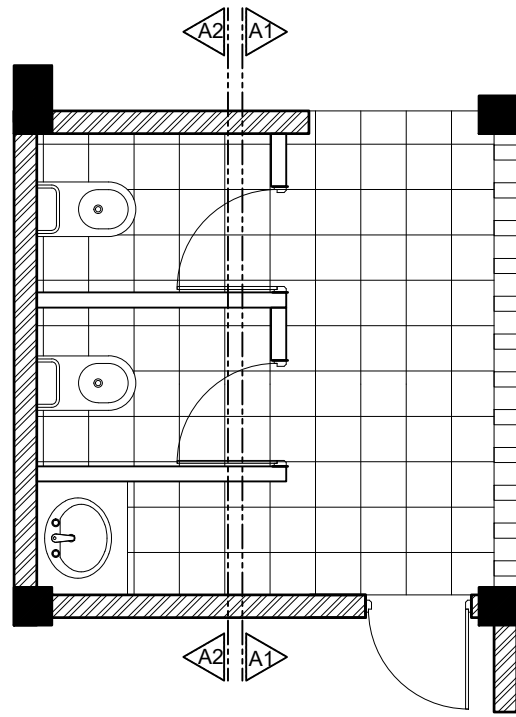
Project Number: RI/2017/012	Rev no	Date
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Architect: Razana Amir	--	-----
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Services: Alshath Ahmed	--	-----
Interior: -	--	-----



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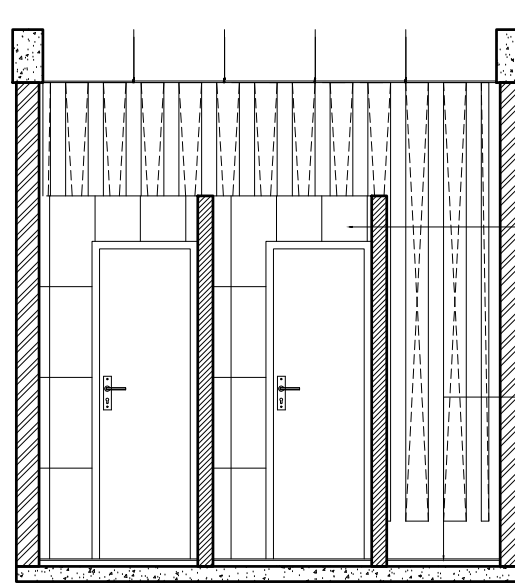
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3rd floor, H. Azum, Ameenemagau, Male'

Title: RC Fin Detail



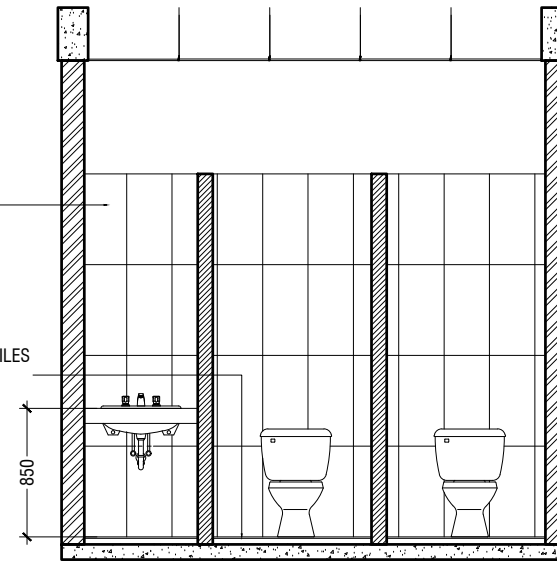
TYPICAL TOILET PLAN

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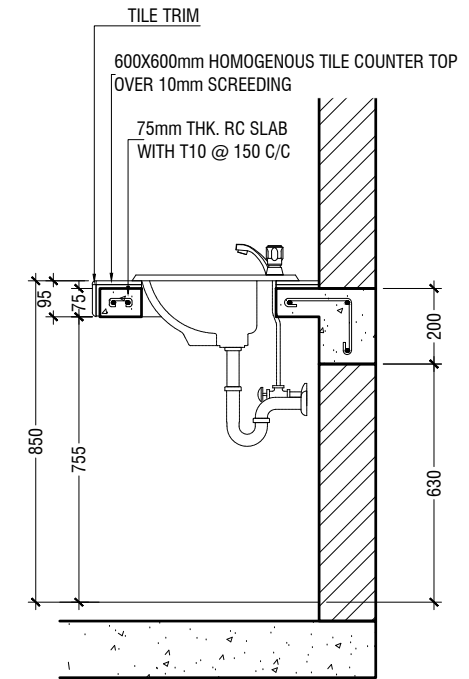
SECTION A1-A1

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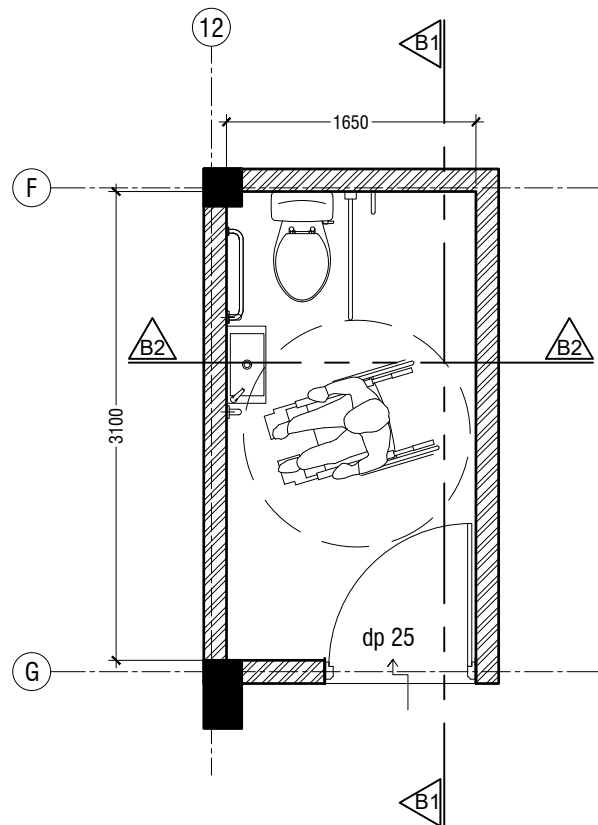
SECTION A2-A2

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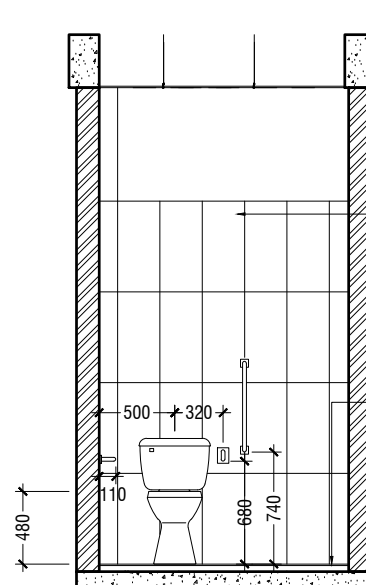
COUNTER TOP DETAILS

SCALE 1:20
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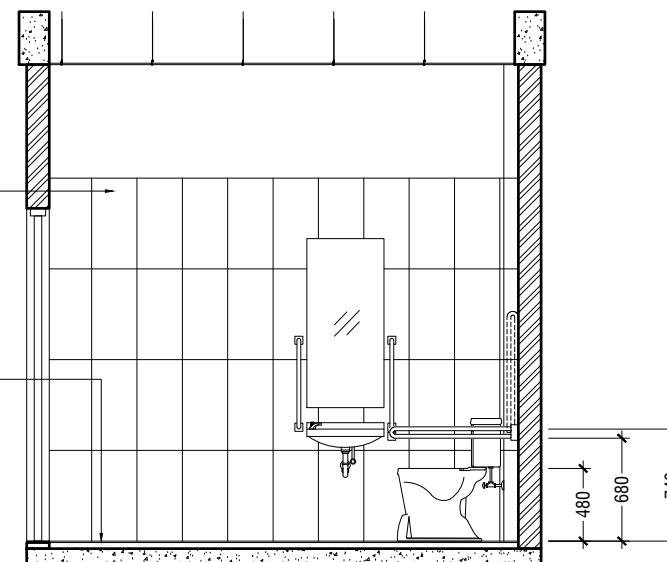
TOILET FOR PERSONS WITH DISABILITIES PLAN

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



SECTION B2-B2

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

RAlifushi School Hall
Client: Ministry of Education

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

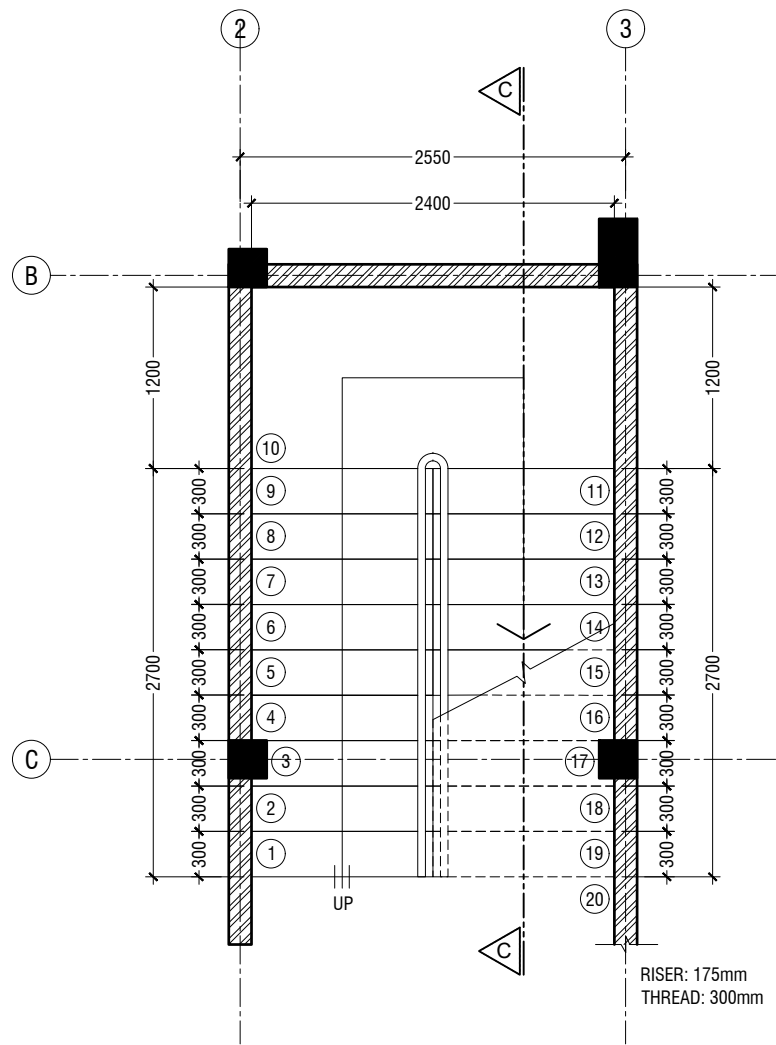
Rev no	Date
01	11 June 2019
-	-
-	-



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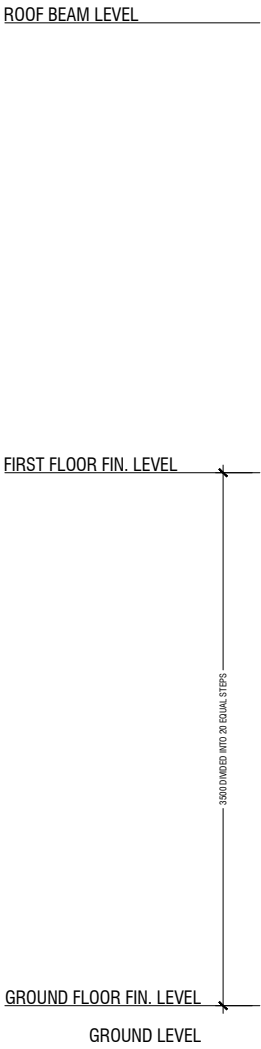
t: +9603315049 f: +9603310776
e: info@rian.com.mv
w: www.rian.com.mv
3rd floor, H. Azum, Ameenemagau, Male'

Title: Toilet details



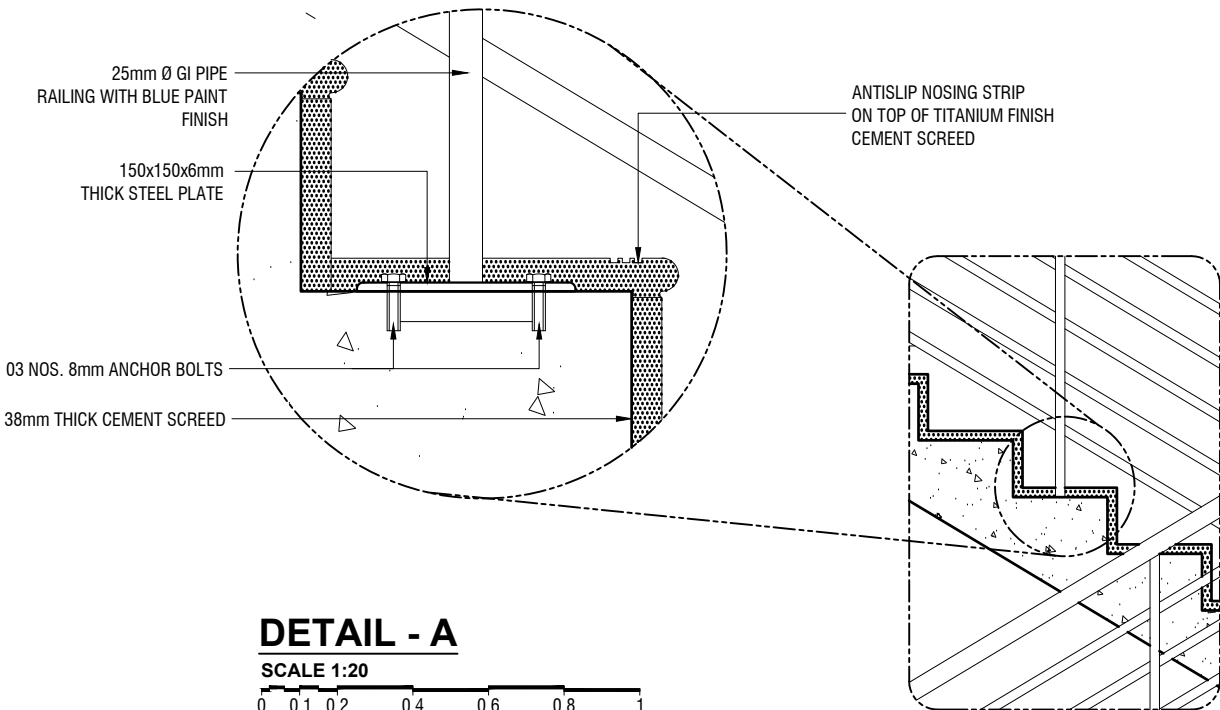
MAIN STAIRCASE PLAN

SCALE 1:50



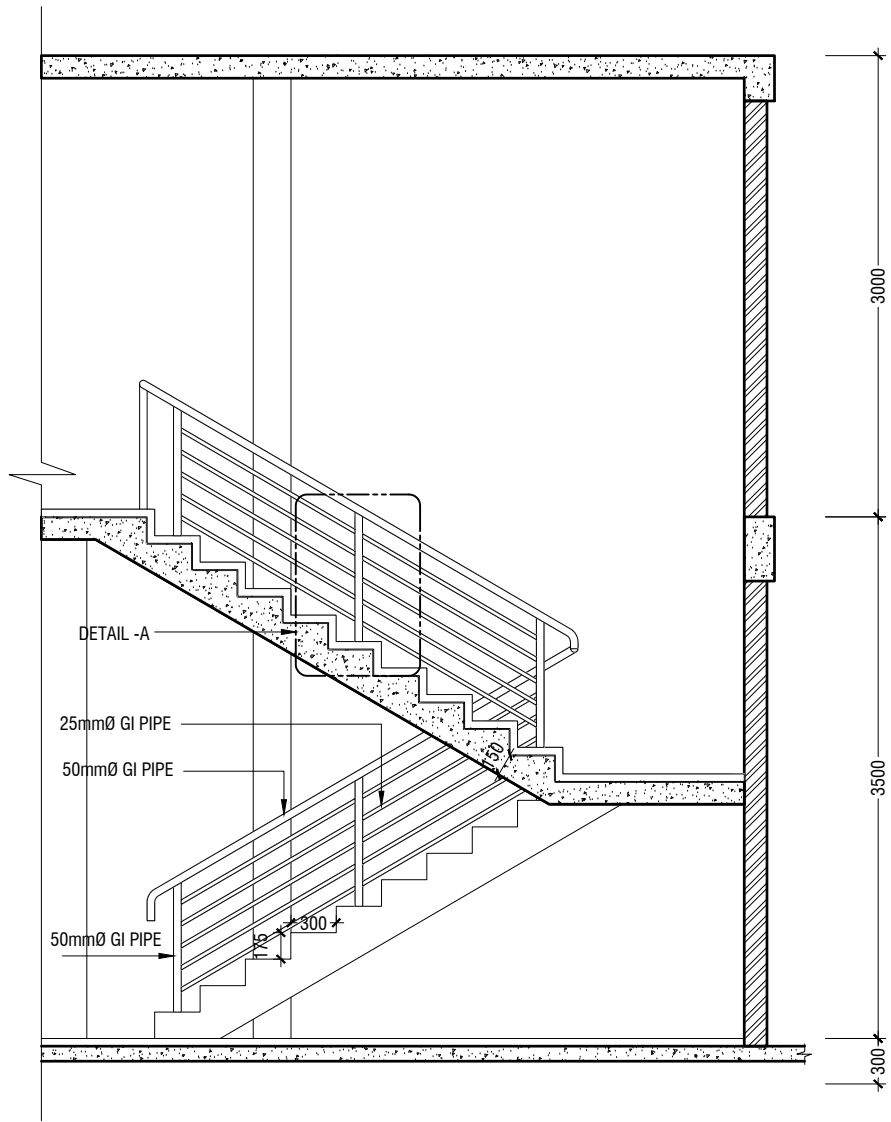
SECTION C-C

SCALE 1:50



DETAIL - A

SCALE 1:20



MAIN STAIRCASE DETAILS

SCALE 1:50

RAlifushi School Hall
Client: Ministry of Education

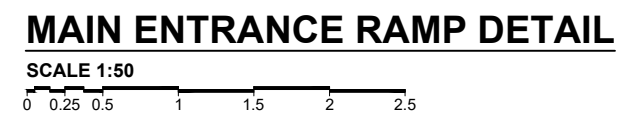
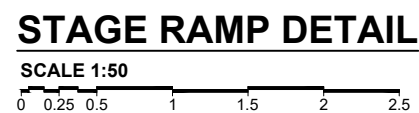
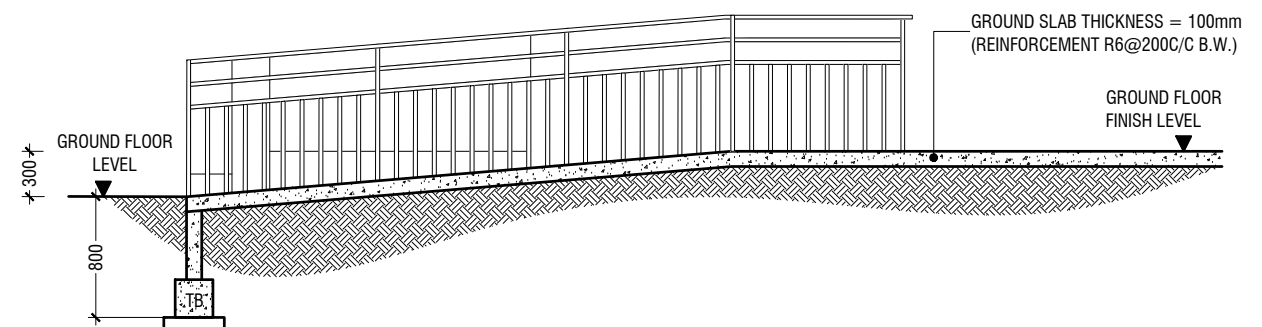
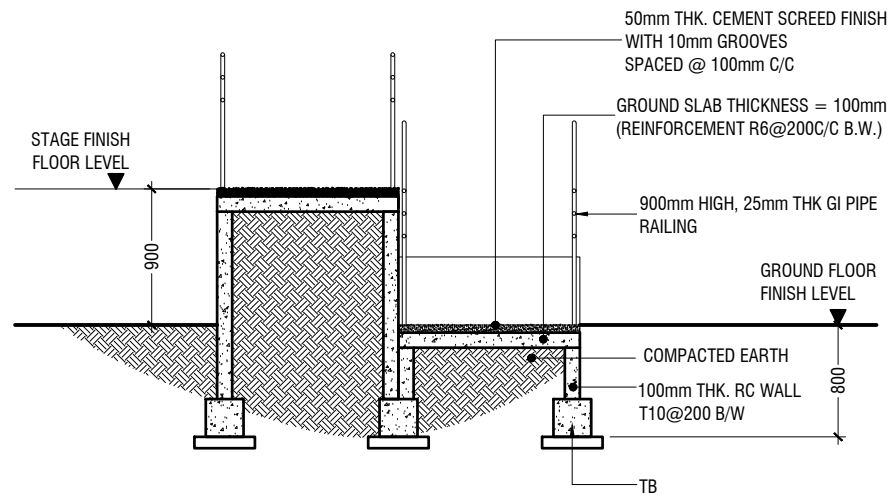
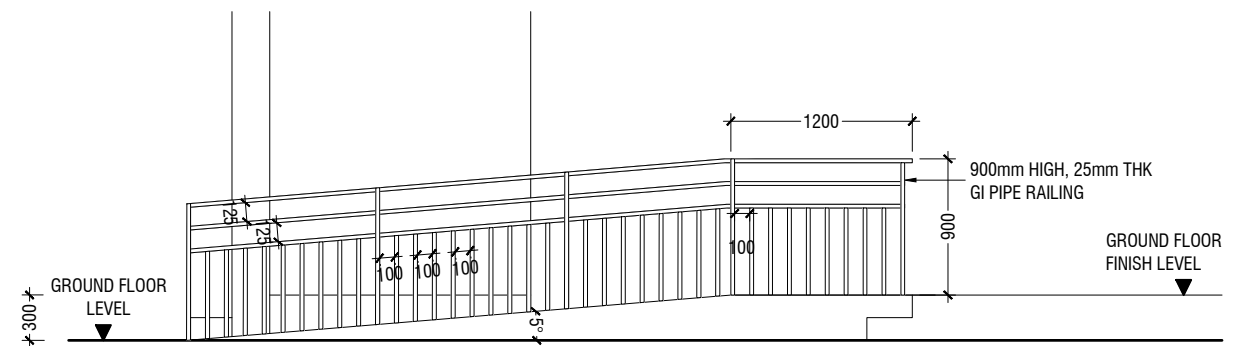
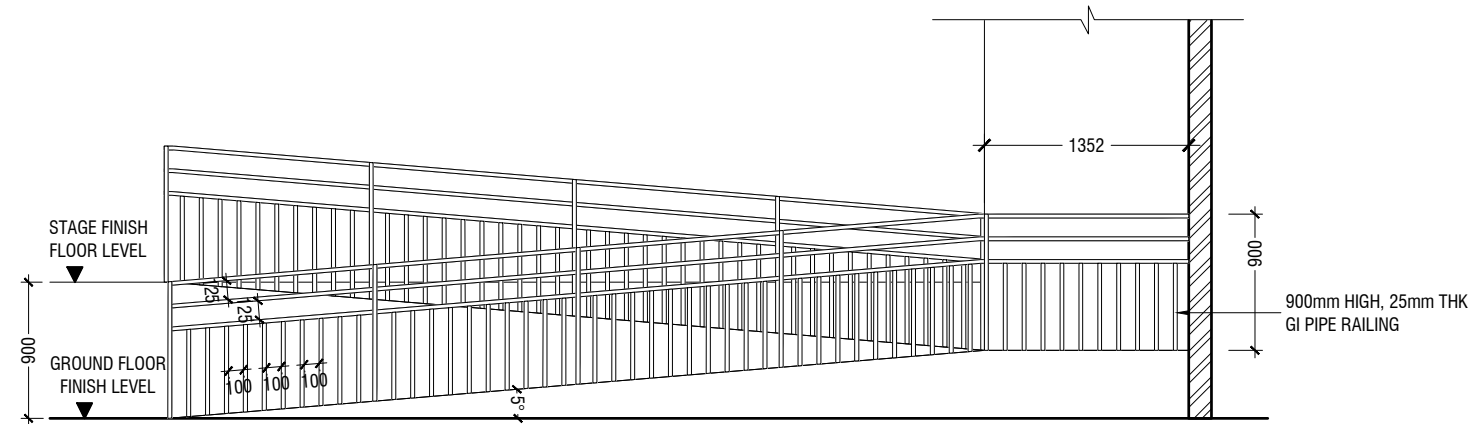
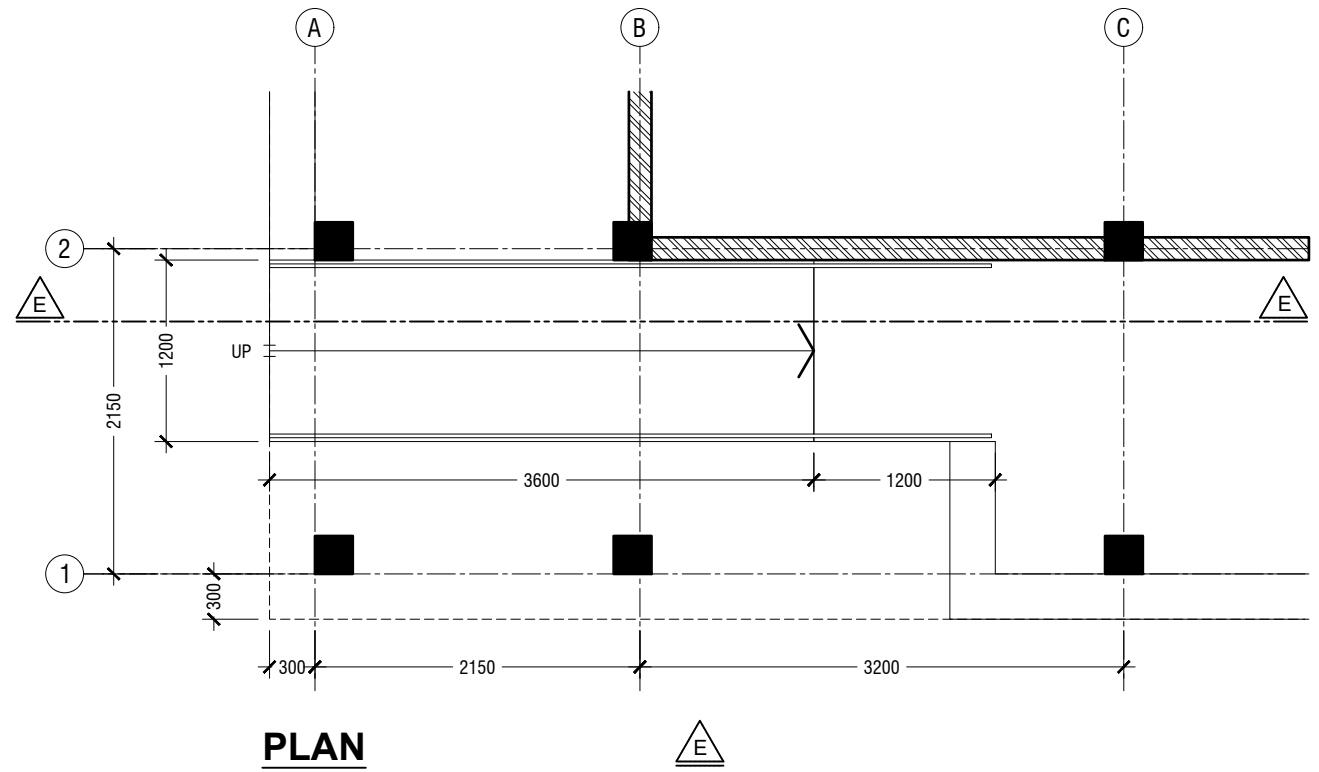
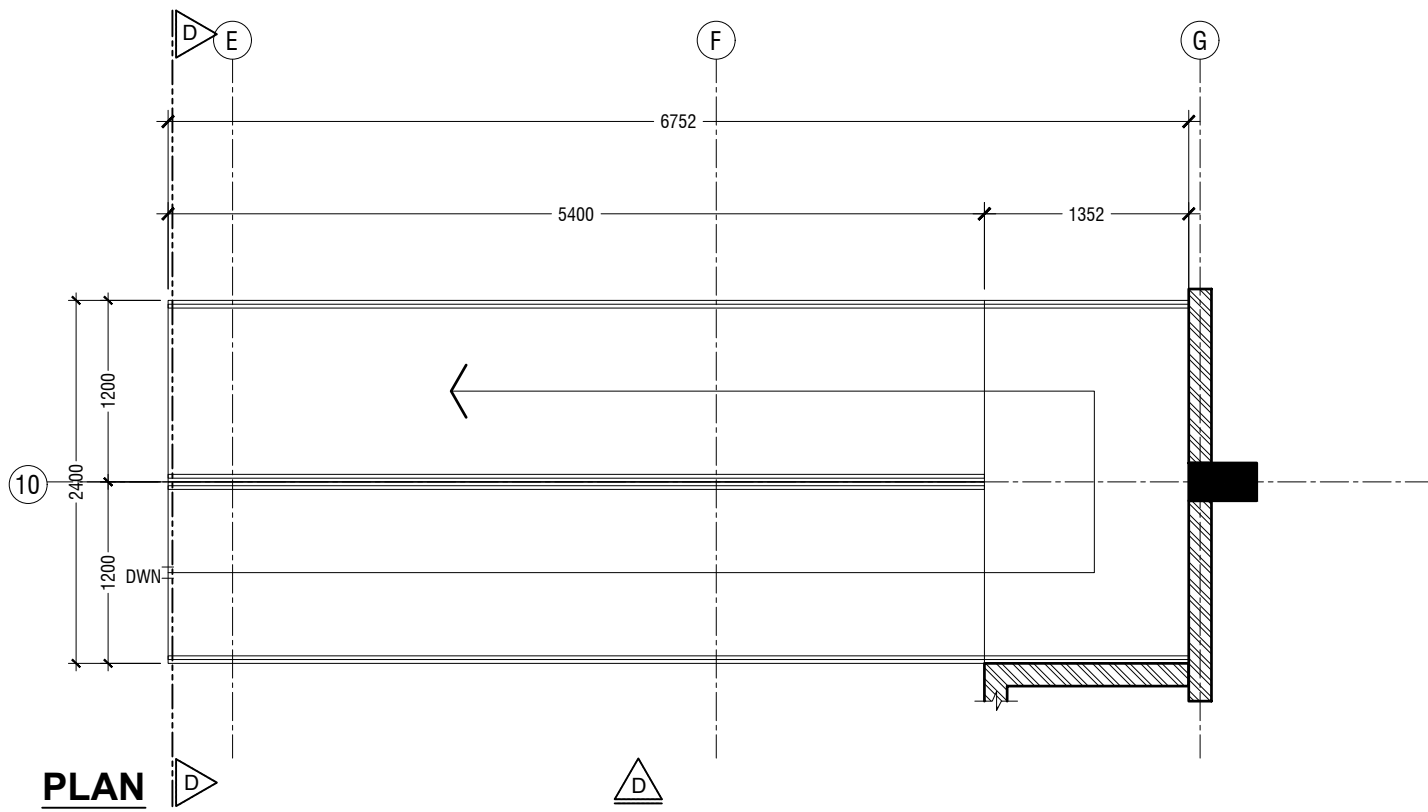
Project Number: RI/2017/012	Date
Date: June 2019	11 June 2019
Architect: Razana Amir	
Engineer: Ahmed Zuhair Zaeem	
Drawn by: Razana Amir	
Services: Alshath Ahmed	
Interior: -	



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Title: Main Staircase Detail



RAlifushi School Hall
Client: Ministry of Education

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

Rev no	Date
01	11 June 2019
-	-
-	-
-	-

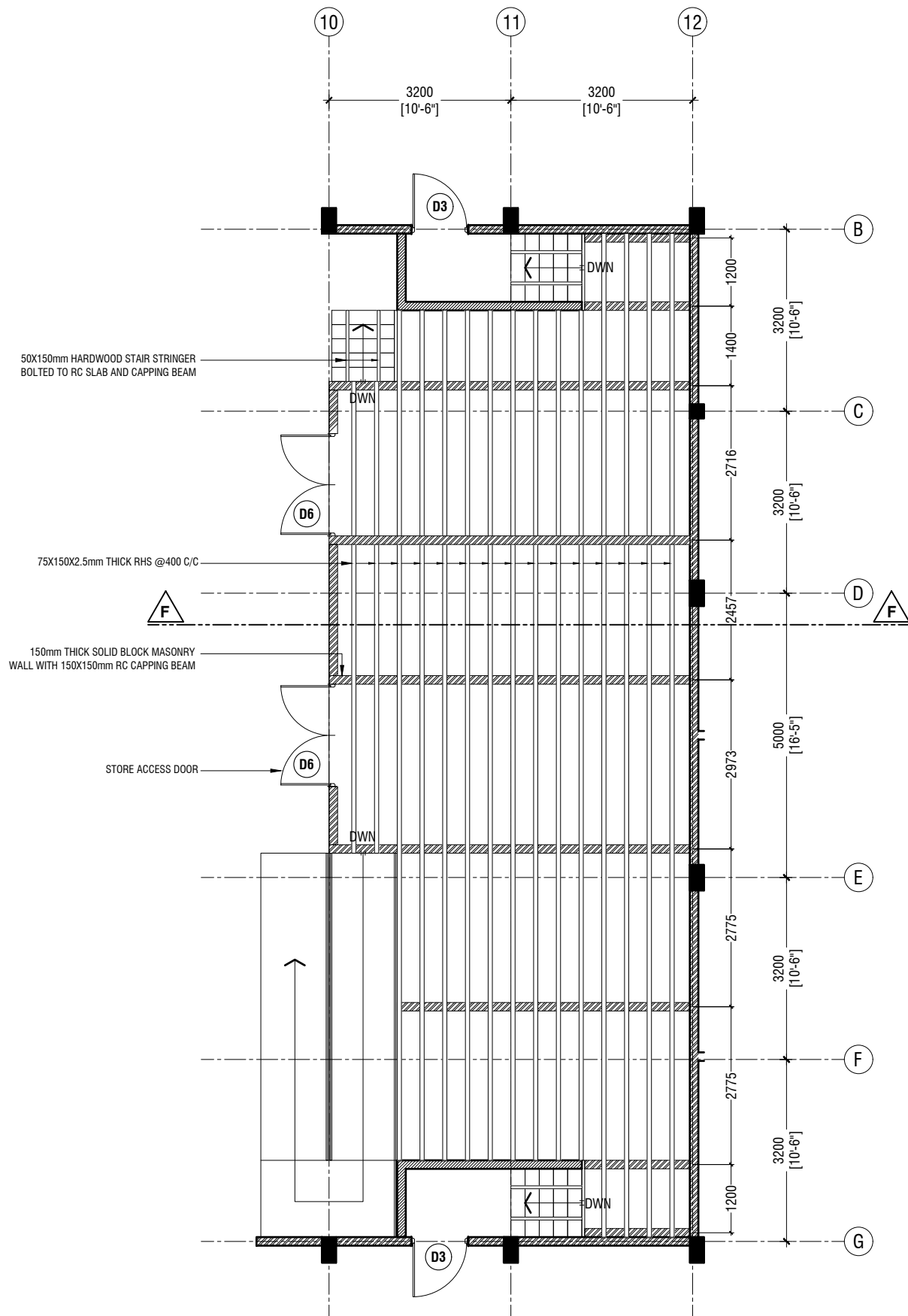


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3rd floor, H. Azumi, Ameerineemagu, Male'

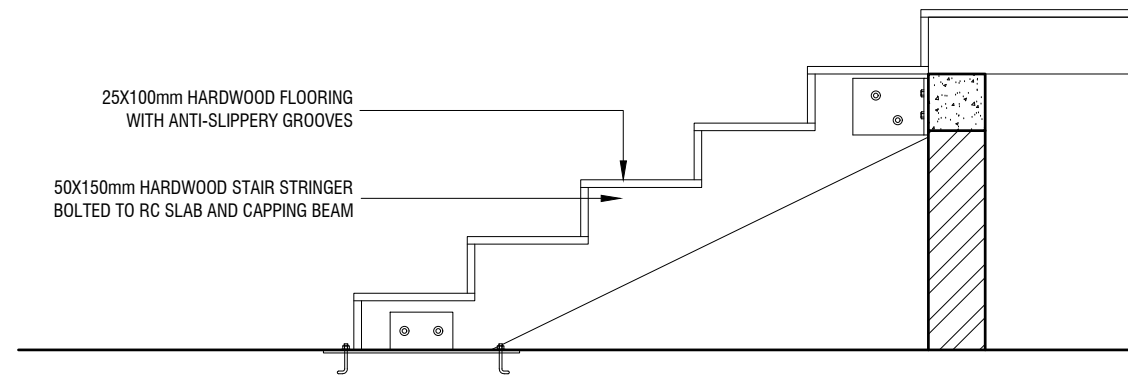
Title: Stage Ramp Detail

Page: A-18/19

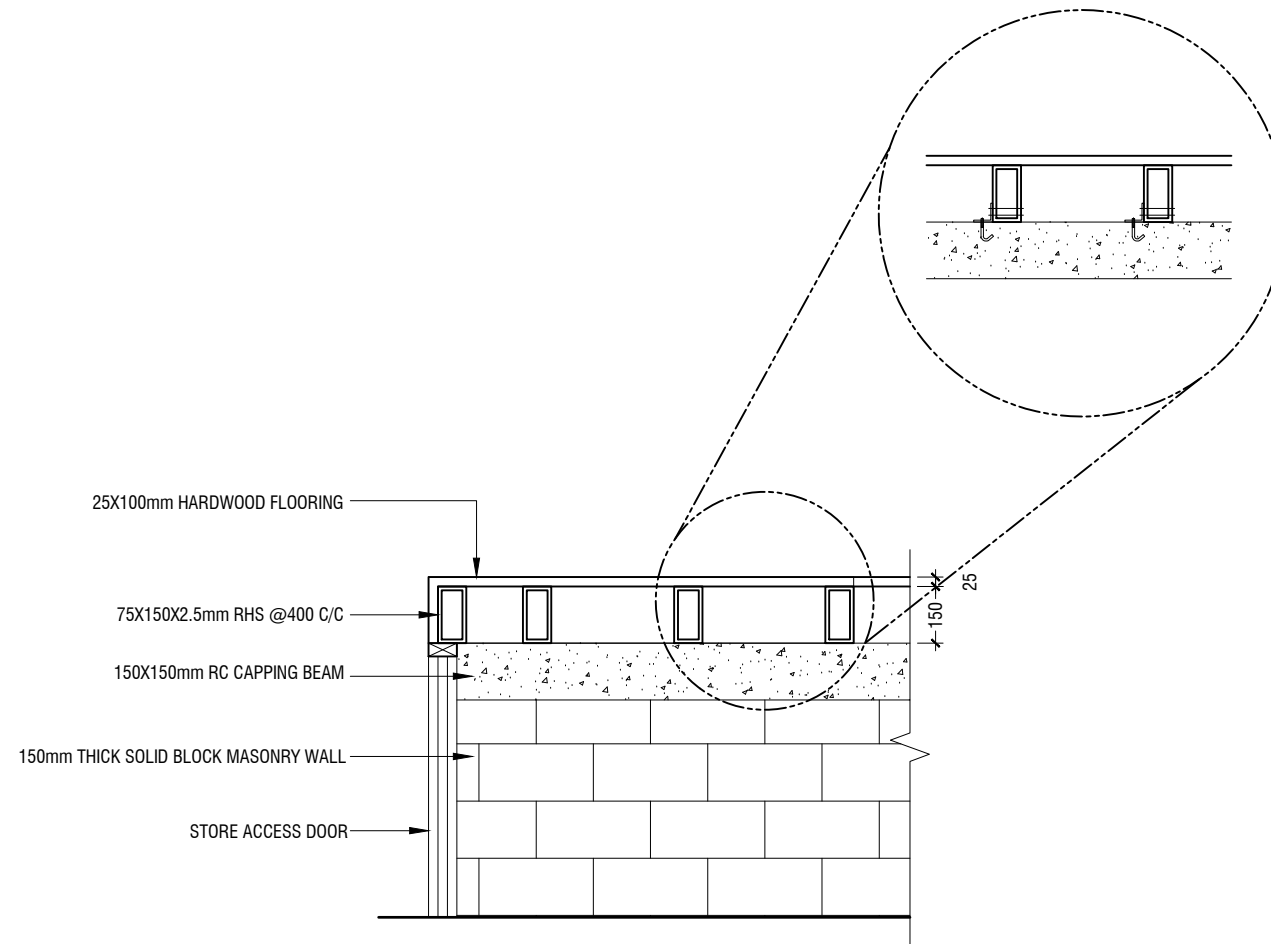
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STAGE FRAMING PLAN
SCALE 1:100



STAIR DETAIL
SCALE 1:20



SECTION F-F
SCALE 1:20

RAlifushi School Hall
Client: Ministry of Education

Project Number: RI/2017/012	Date
Date: June 2019	11 June 2019
Architect: Razana Amir	
Engineer: Ahmed Zuhair Zaeem	
Drawn by: Razana Amir	
Services: Alishah Ahmed	
Interior:	

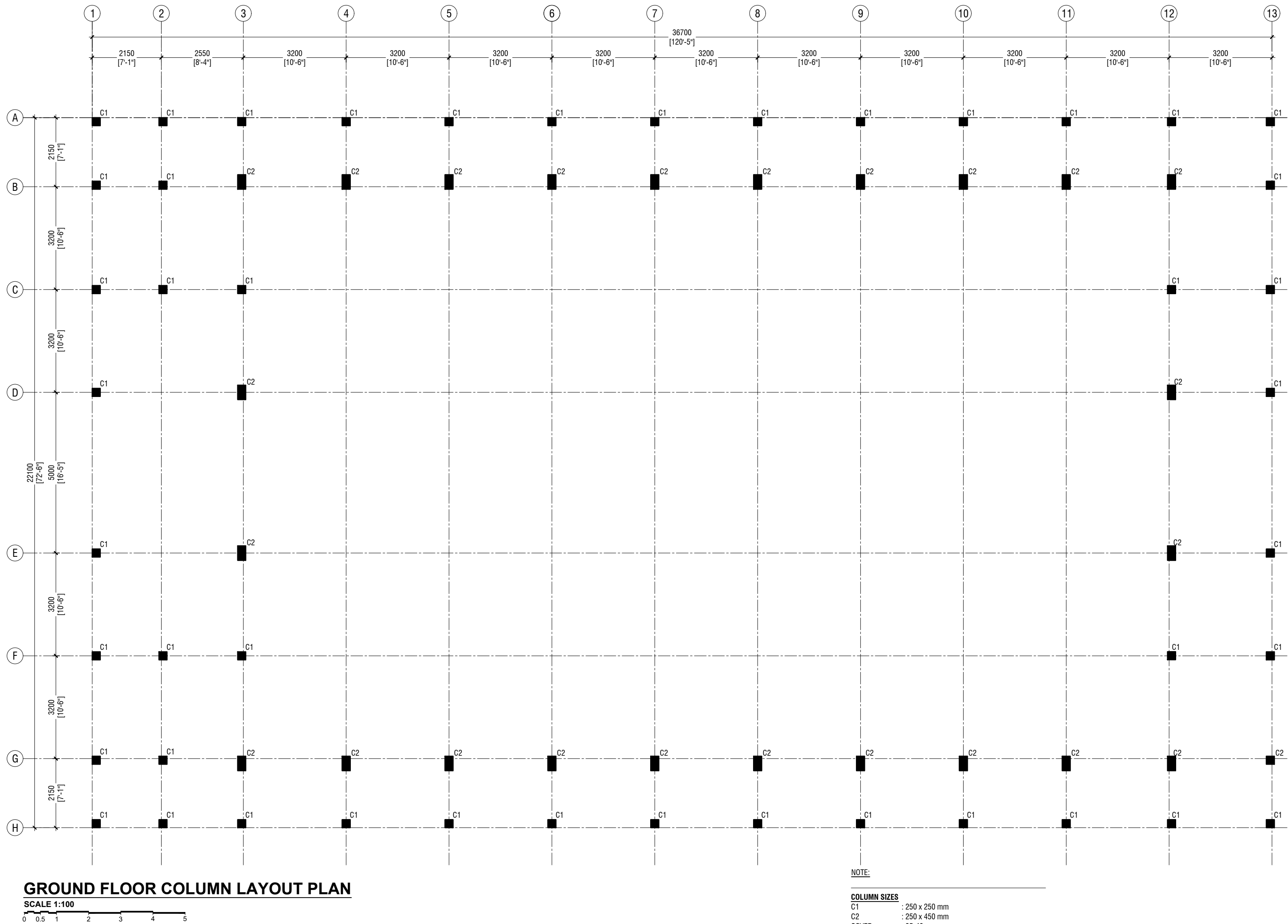


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w: www.rian.com.mv
3rd floor, H. Azum, Ameenemagau, Male'

Title: Stage Framing Plan & Details
& Details

Page: A-19/19

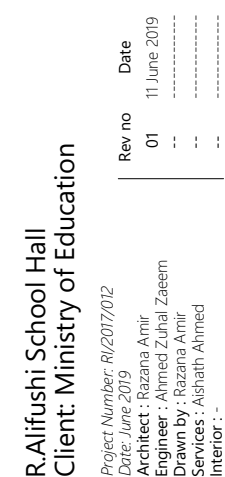
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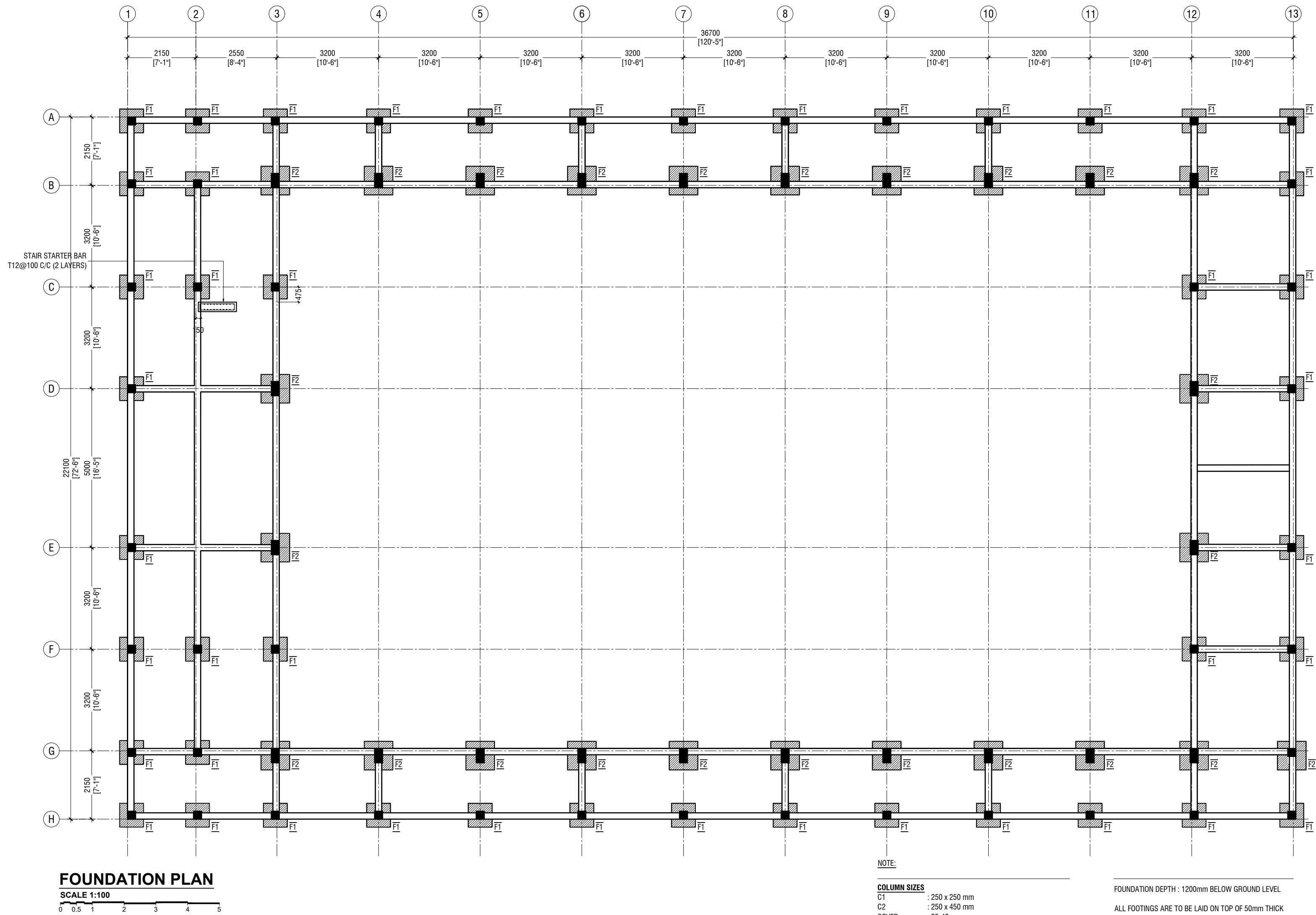


R.Alifush School Hall
Client: Ministry of Education

Project Number: RI/2017/012
Rev. no. 01
Date 11 June 2019

Architect: Razana Amir
Engineer: Ahmed Zuhail Zaeem
Drawn by: Razana Amir
Services: Alifush Ahmed
Inspector:





NOTE:

COLUMN SIZES
C1 : 250 x 250 mm
C2 : 250 x 450 mm
COVER : 35-40mm

FOUNDATION PAD SIZES

	DIMENSION	REINFORCEMENT
F1	750 x 750 x 250	T10@150 C/C B/W (B)
F2	900 x 900 x 300	T10@100 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 400 mm
COVER : 50mm

GROUND SLAB : 100mm 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

R.Alifush School Hall
Client: Ministry of Education

Project Number: RI/2017/002
Client: Ministry of Education
Architect: Razana Amir
Engineer: Ahmed Zuhail Zaeem
Drawn by: Razana Amir
Services: Alifush Ahmed
Rev no 01
Date 11 June 2019

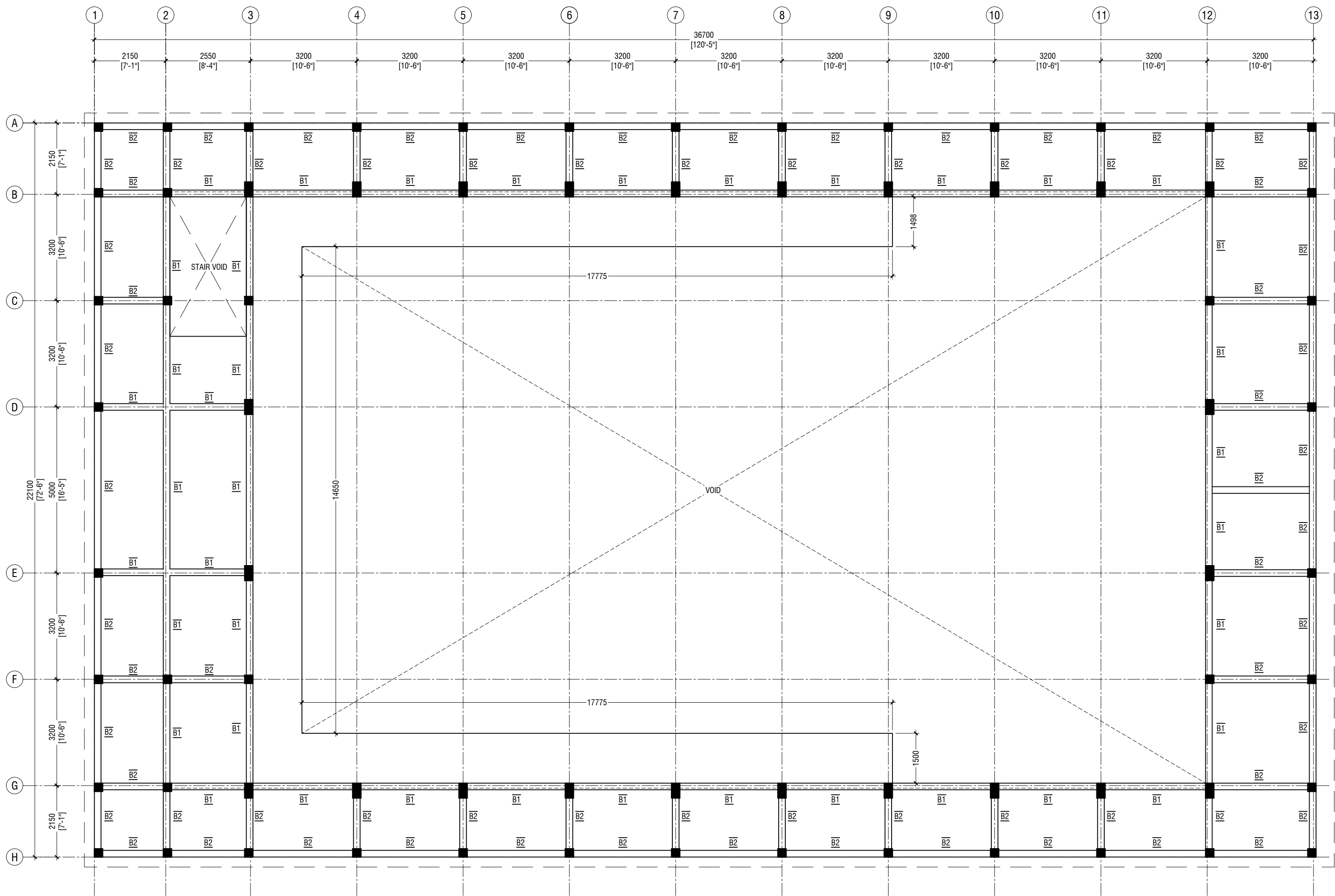


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w: www.ryan.com.mv
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Title: Foundation Plan

Page: S-03/11

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FIRST FLOOR BEAM PLAN

SCALE 1:100



NOTE:

COLUMN SIZES

C1 : 250 x 250 mm
C2 : 250 x 450 mm
COVER : 35-40mm

BEAM SIZES

B1 : 200x425 mm
B2 : 200x350 mm
RB : 200x300 mm
COVER : 35mm

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

R.AliFush School Hall
Client: Ministry of Education

Rev no	Date
01	11 June 2019
..	..
..	..

Project Number: RI/2017/012
Designed by: Razana Amir
Architect: Razana Amir
Engineer: Ahmed Zuhail Zaeem
Drawn by: Razana Amir
Services: Alifush Ahmed
Inspector: ..



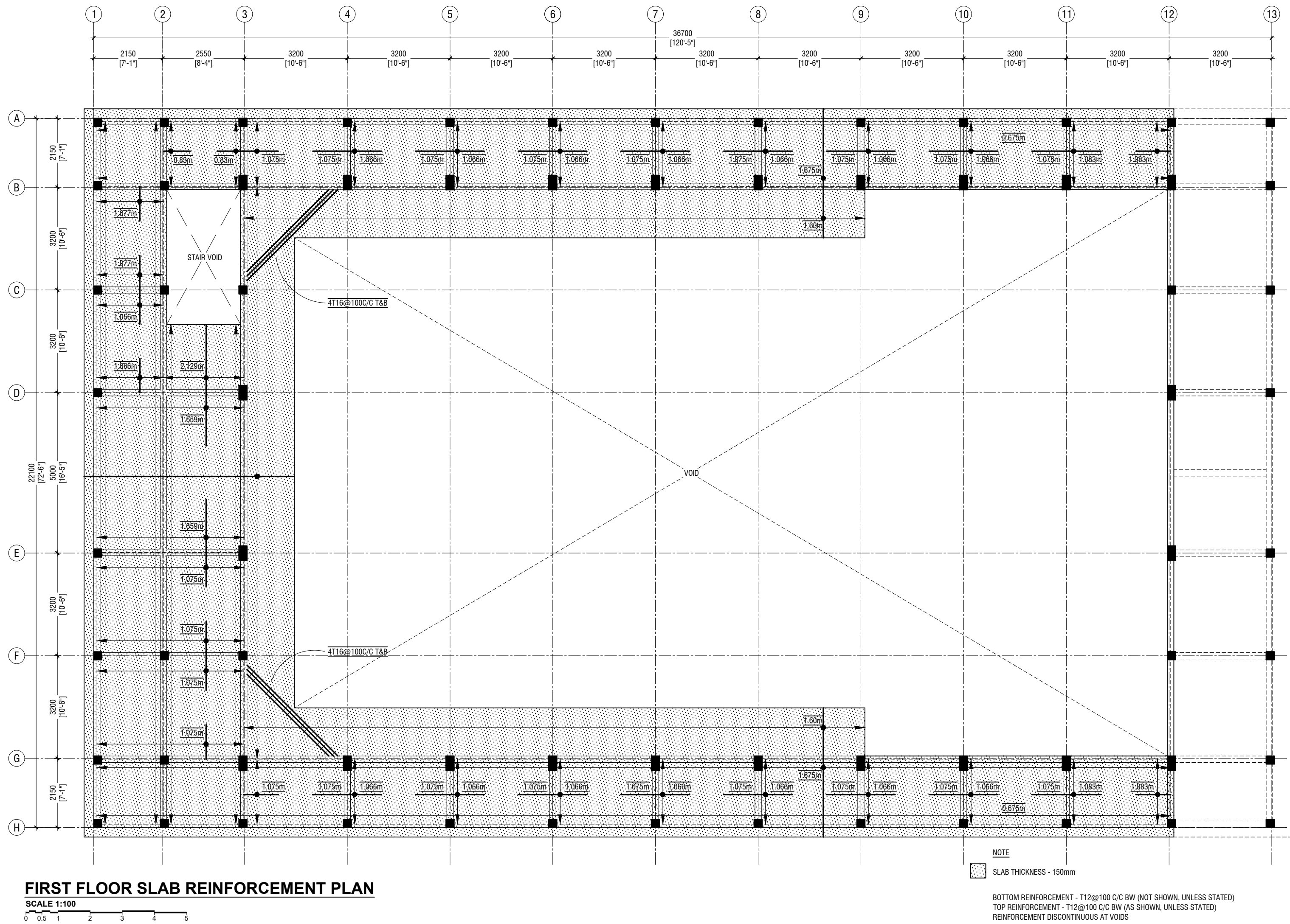
RYAN PRIVATE LIMITED

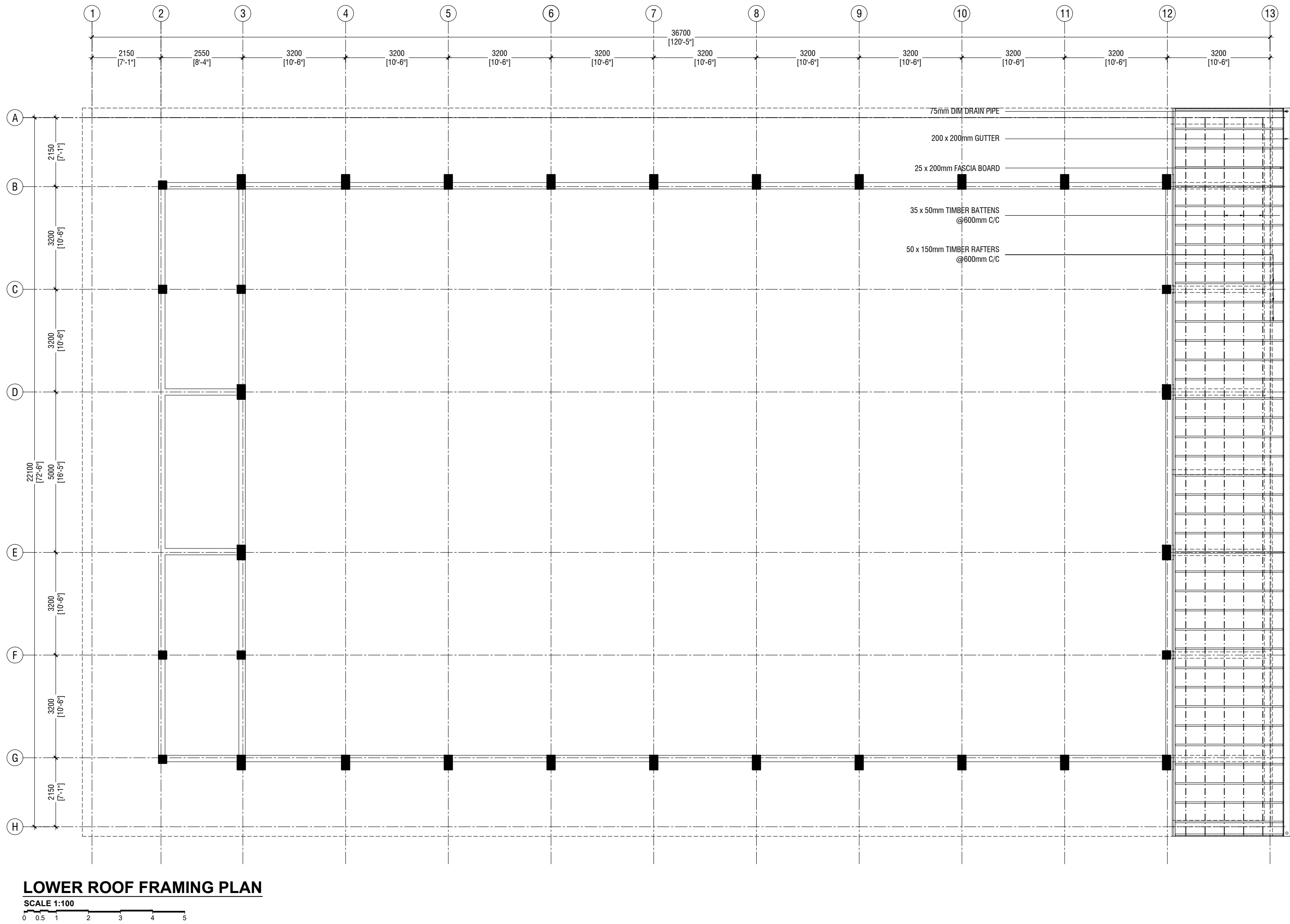
T: +960335049 F: +9603310776
E: info@ryan.com.mv
W: www.ryan.com.mv
3rd Floor, H. Azumi, Ameeremogga, Male'

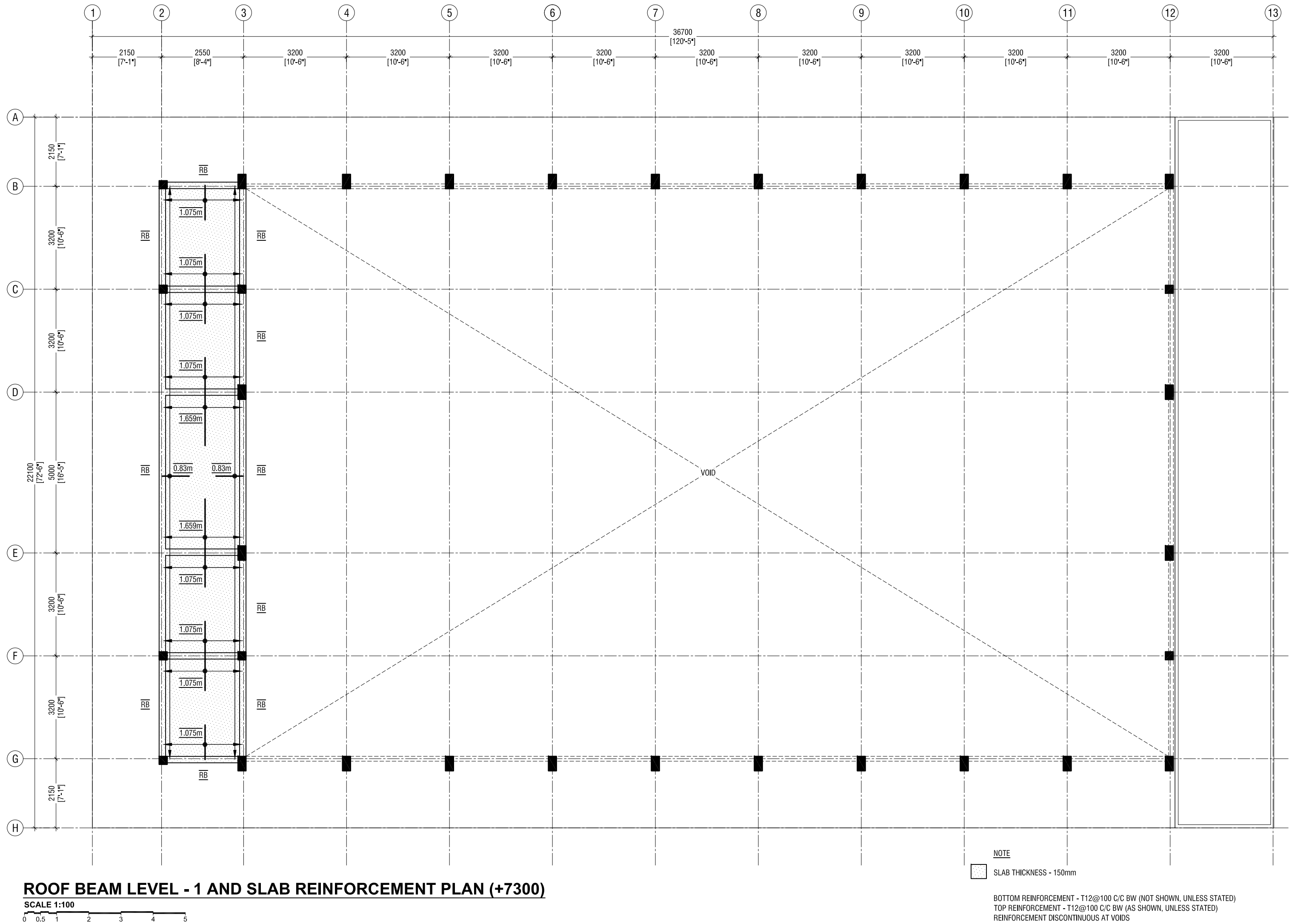
Title: 1st Floor Beam Plan

Page: S-04/11

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R.Alifushi School Hall
Client: Ministry of Education

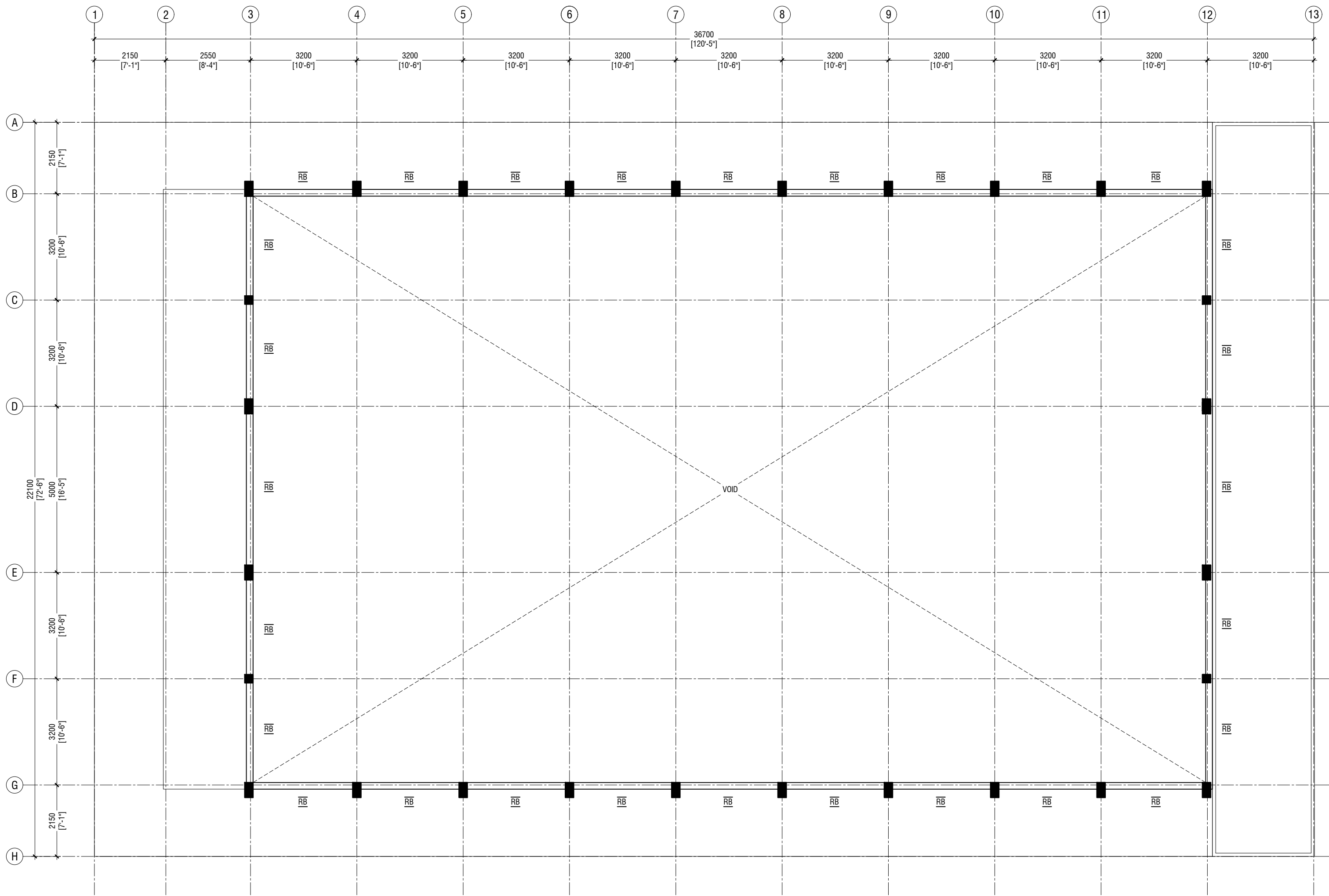
Rev no	Date
01	11 June 2019



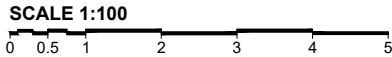
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3rd floor, P1, Azam, Ammeenemogau, Male'

Title: Roof Beam Level - 1
Slab Rein. Plan
Page: S-07/11

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ROOF BEAM LEVEL - 2 PLAN (+8200)



NOTE:

COLUMN SIZES

C1 : 250 x 250 mm
C2 : 250 x 450 mm
COVER : 35-40mm

BEAM SIZES

B1 : 200x425 mm
B2 : 200x350 mm
RB : 200x300 mm
COVER : 35mm

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

R.Alifush School Hall
Client: Ministry of Education

Rev no	Date
01	11 June 2019
02	11 June 2019
03	11 June 2019

Project Number: RI/2017/012
Client: Ministry of Education
Architect: Razana Amir
Engineer: Ahmed Zuhail Zaeem
Drawn by: Razana Amir
Services: Alifush Ahmed
Interior: Alifush Ahmed



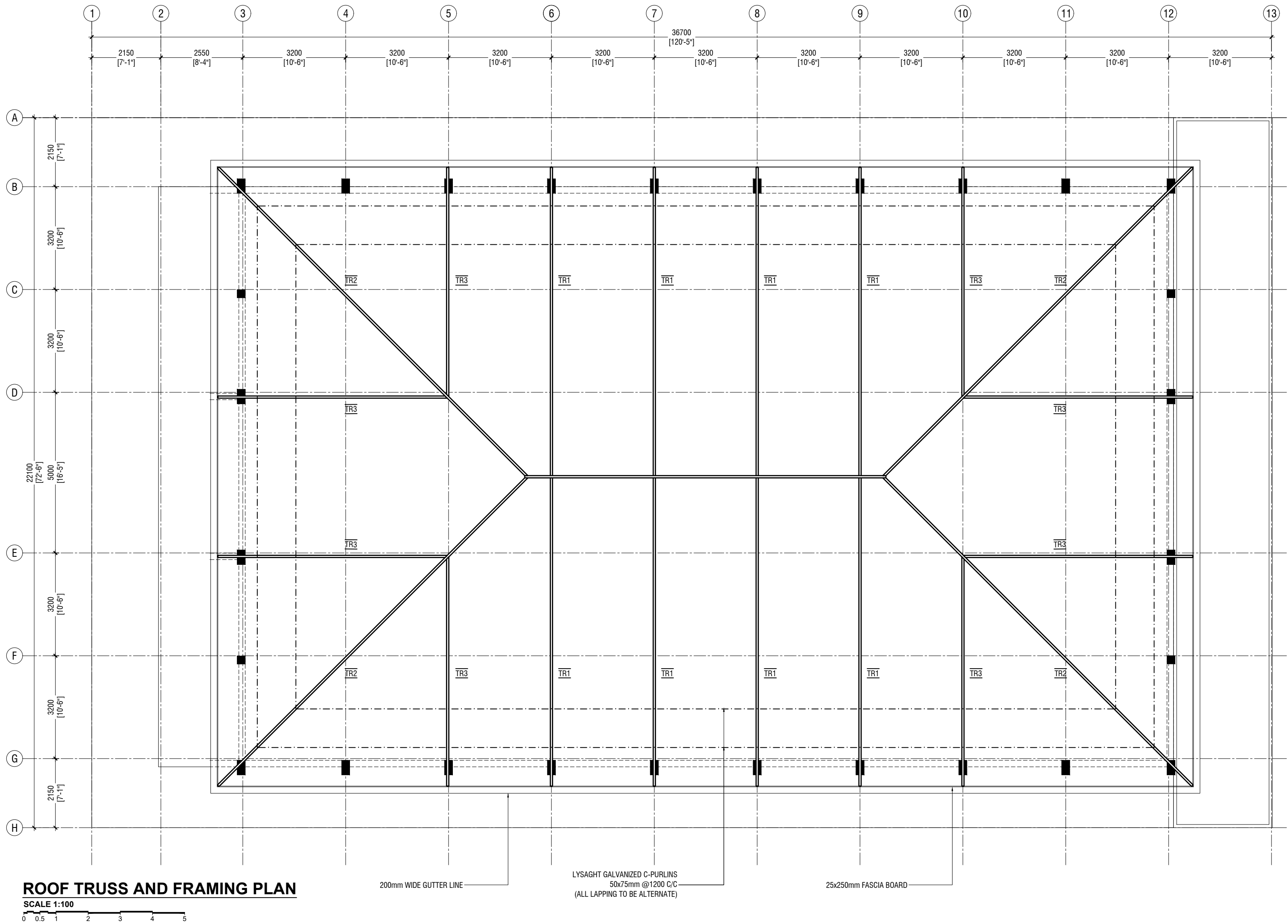
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3rd Floor, H. Azumi, Amereemogga, Male

Title: Roof Beam Level - 2 P
Plan

Page: S-08/11

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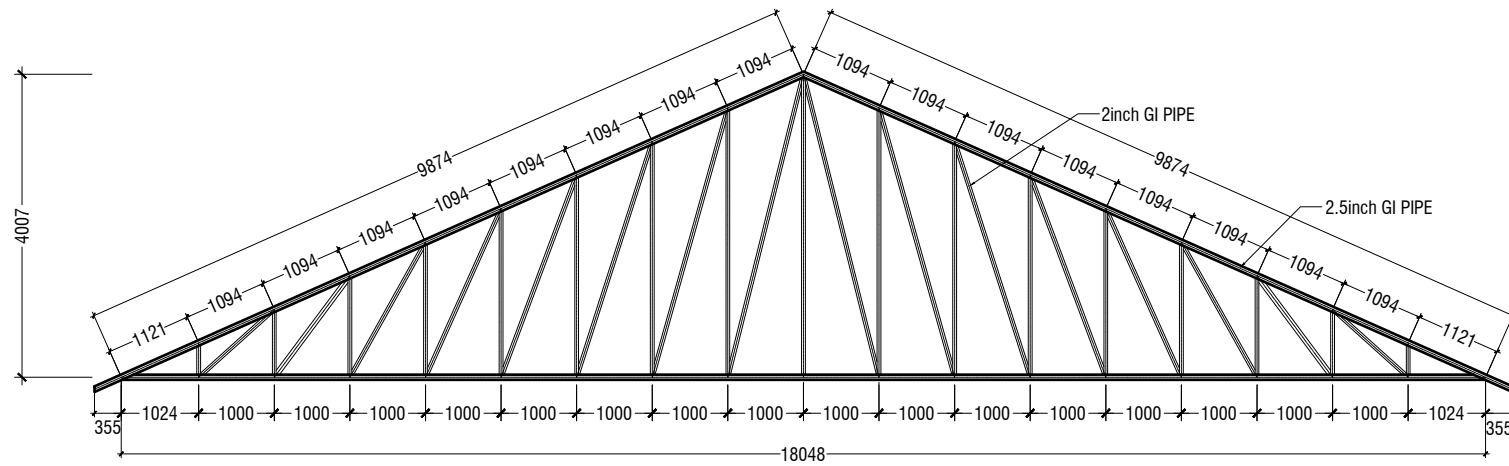


R.Alifush School Hall
Client: Ministry of Education

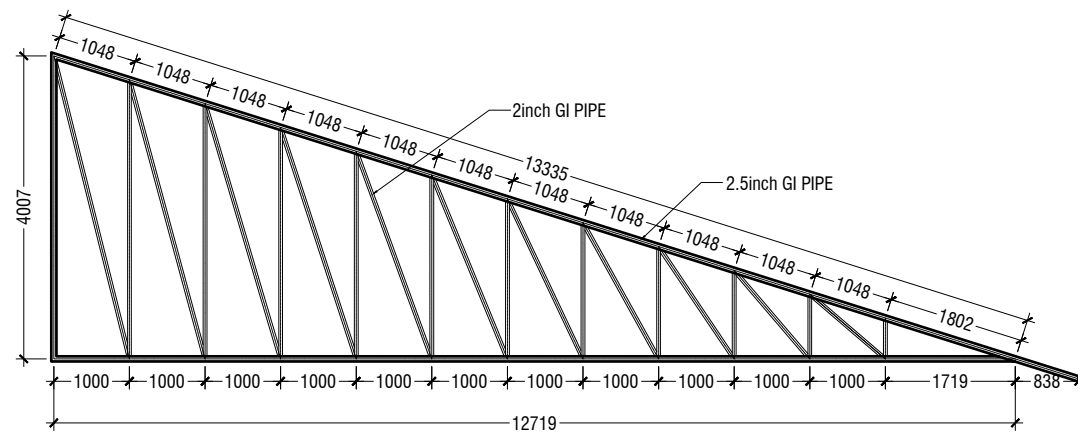
Rev no	Date
01	11 June 2019
02	
03	

Project Number: RI/2017/012
Client: Ministry of Education
Architect: Razana Amir
Engineer: Ahmed Zuhail Zaeem
Drawn by: Razana Amir
Services: Alifush Ahmed
Interior

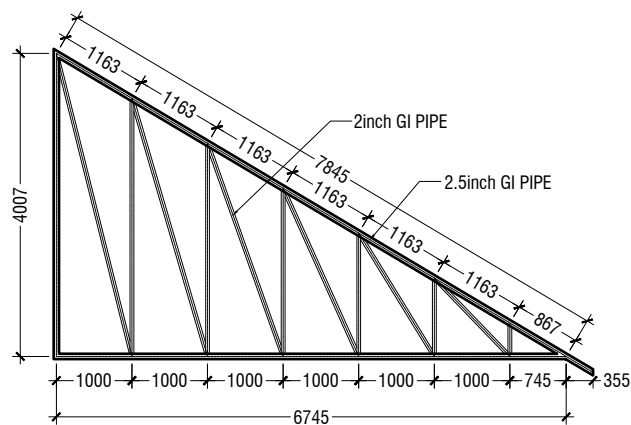
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E: info@ryan.com.mv
W: www.ryan.com.mv
3rd Floor, H. Azumi, Ameeremogga, Male



TRUSS TYPE TR1

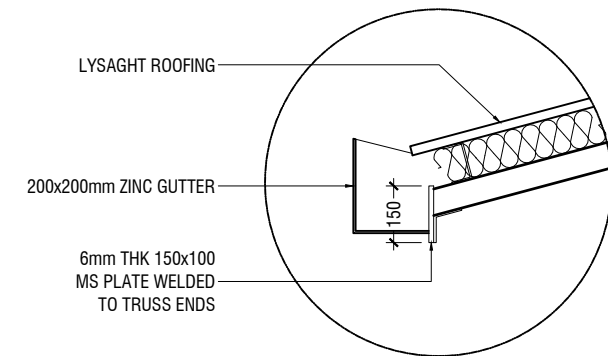
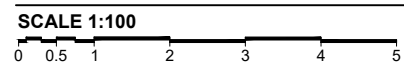


TRUSS TYPE TR2



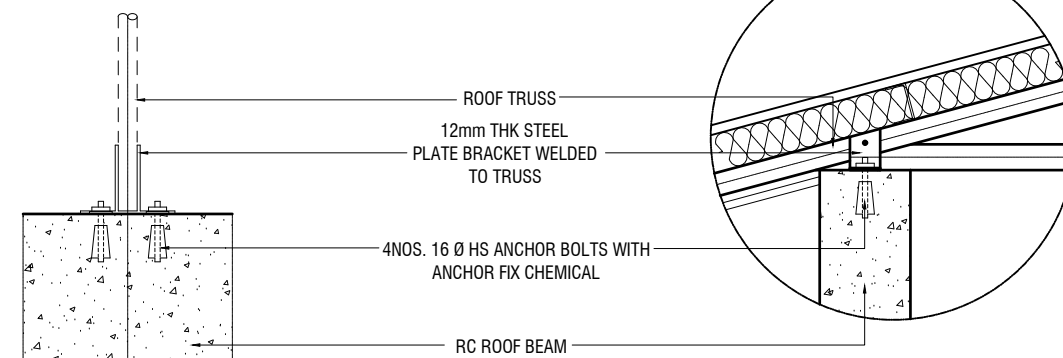
TRUSS TYPE TR3

ROOF TRUSS DETAILS



GUTTER/FASCIA DETAIL

SCALE 1:20



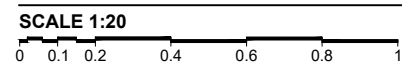
ELEVATION

SCALE 1:20

SECTION

SCALE 1:20

TYPICAL TRUSS FIXING DETAILS



R.Alifushi School Hall
Client: Ministry of Education

Project Number: RI/2017/012	Date
Date: June 2019	11 June 2019
Architect: Razana Amir	
Engineer: Ahmed Zuhail Zaeem	
Drawn by: Razana Amir	
Services: Alifathi Ahmed	
Interior: -	

Rev no

01



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Title: Roof Truss Details

Page: S-10/11

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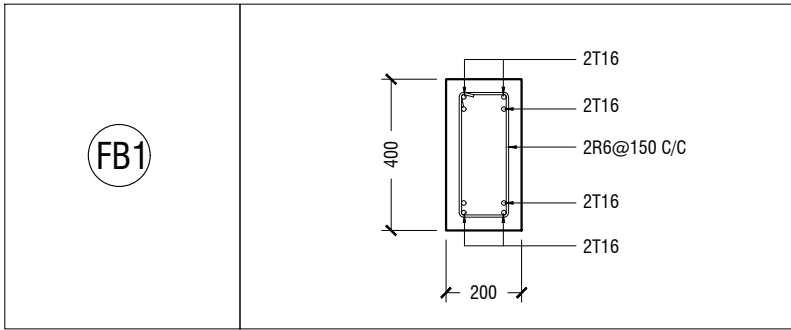
	DIMENSION	REINFORCEMENT
F1	750 x 750 x 250	T10@150 C/C B/W (B)
F2	900 x 900 x 300	T10@100 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

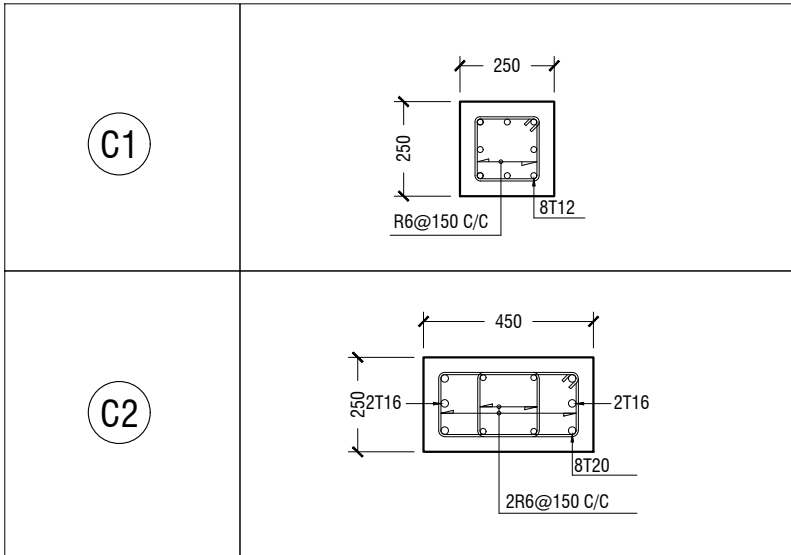
NOTE:-
COVER TO FOUNDATION = 50mm
COVER TO COLUMNS = 35-40mm
COVER TO BEAMS = 35mm
LAPS = Ø OF BAR x 45
BEAMS @END SUPPORT = Ø OF BAR x 12

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

FOUNDATION PADS

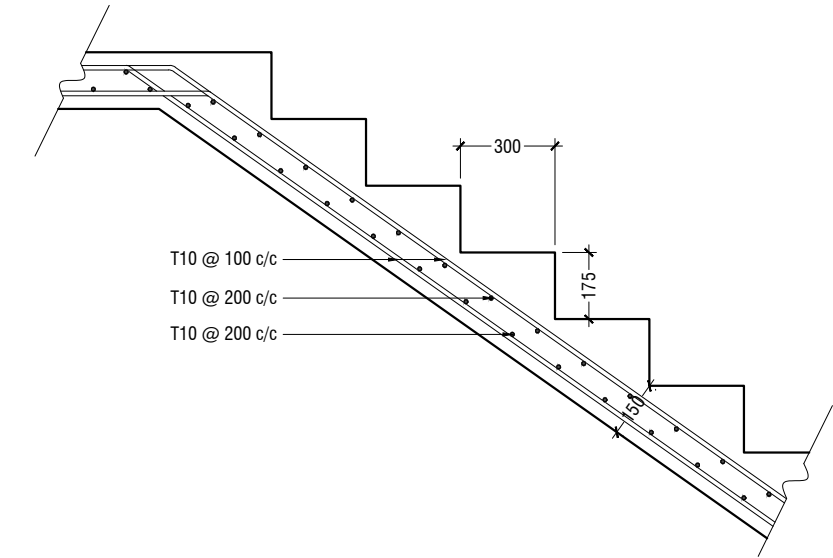
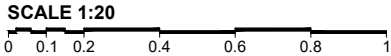


FOUNDATION DETAILS

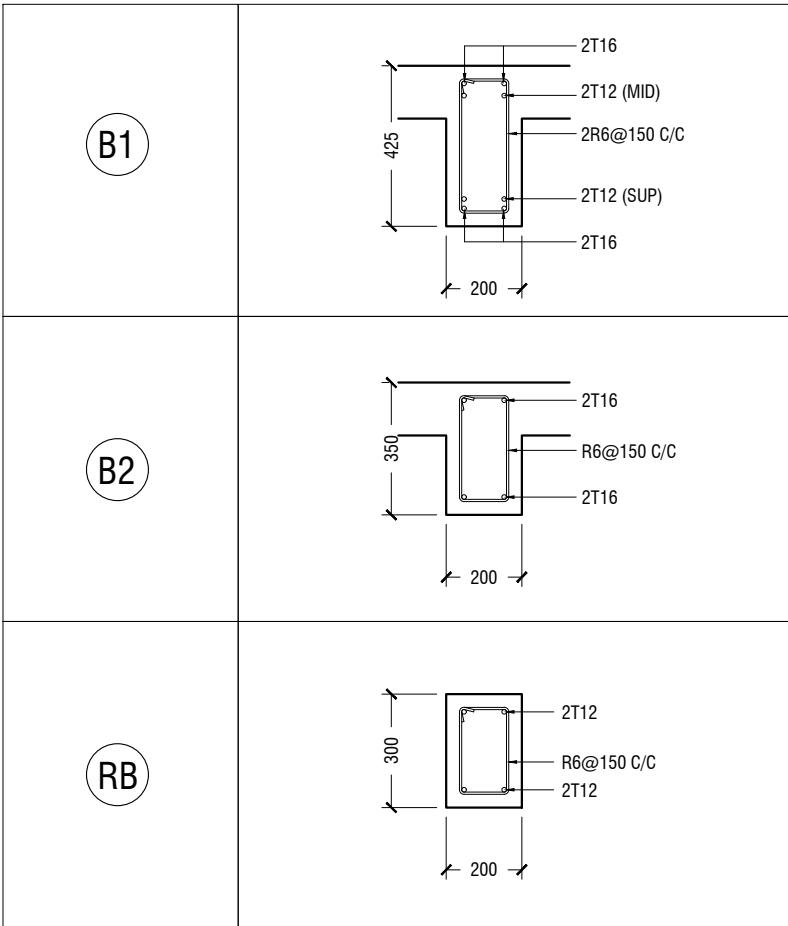


COLUMN DETAIL

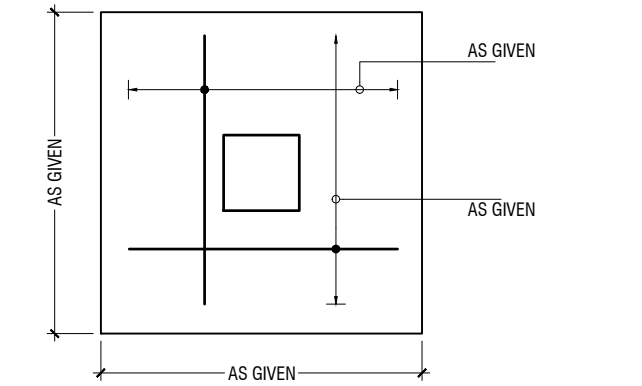
STRUCTURAL DETAILS



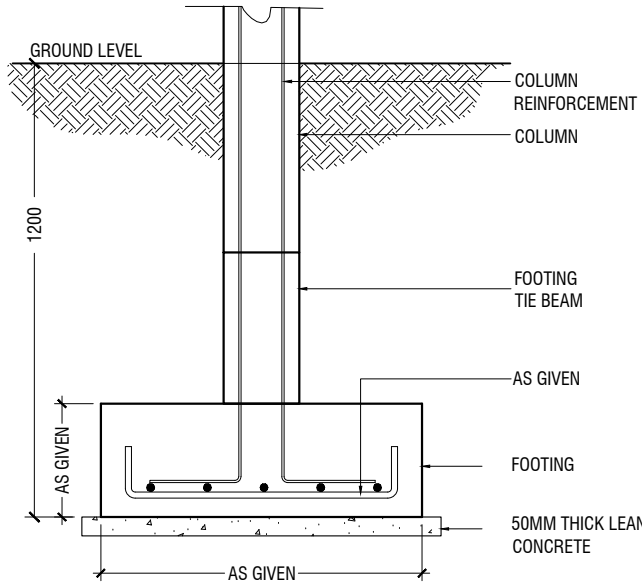
MAIN STAIRCASE REINFORCEMENT DETAIL



BEAM DETAIL



PLAN



SECTION

FOOTING DETAILS

RAlifushi School Hall
Client: Ministry of Education

Rev no	Date
01	11 June 2019
-	-
-	-
-	-

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



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

Title: Structural Details

Page: S-11/11

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