

Proposed Multipurpose Hall Building at  
R.Ungoofaaru School

*ARCHITECTURAL & STRUCTURAL DRAWINGS*

Client: Ministry of Education



RIYAN PRIVATE LIMITED

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w : www.riyan.com.mv  
3rd floor, H. Azum, Ammeenemogu, Male'

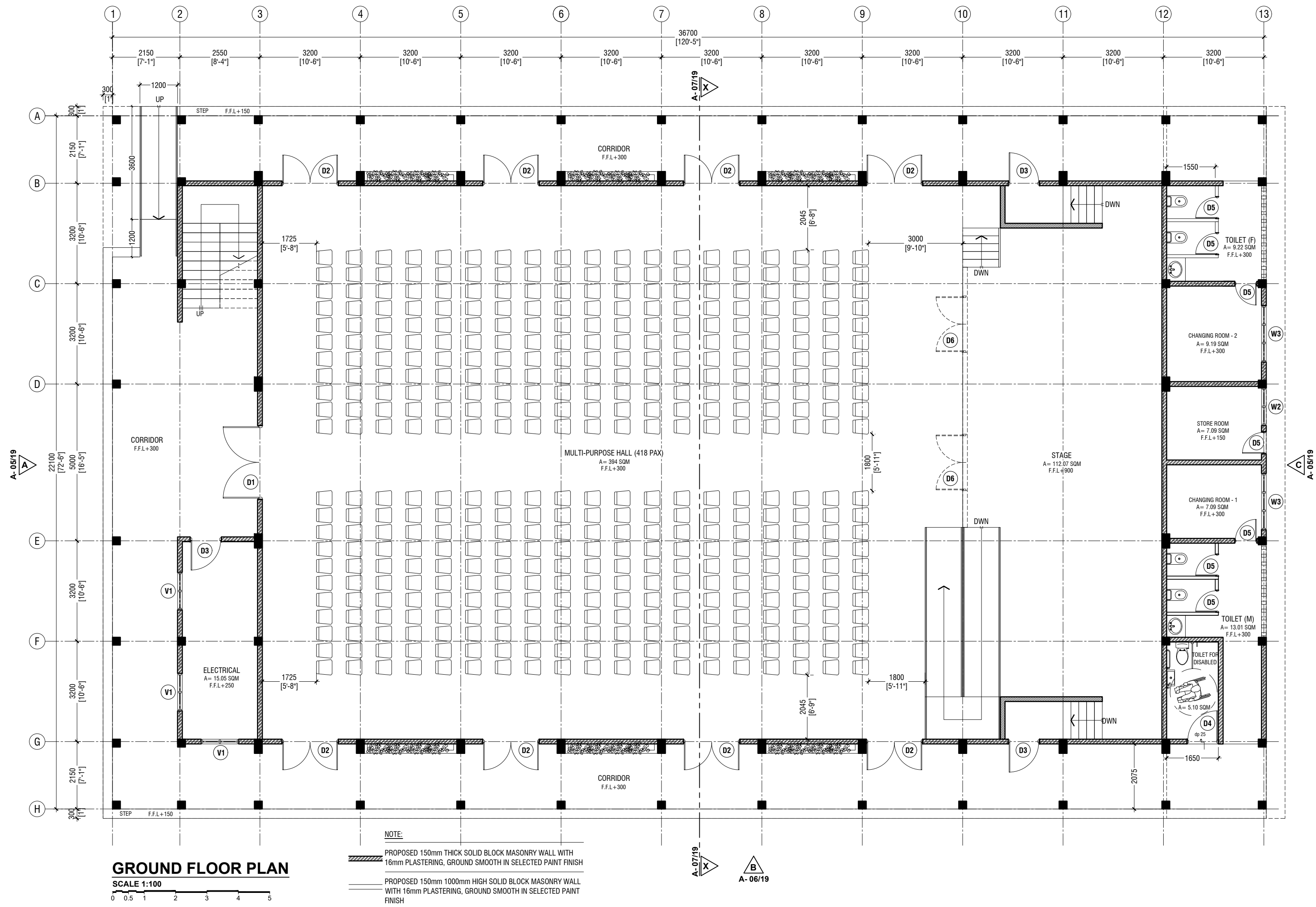
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# SCHOOL FLOOR PLAN



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R.Ungoofaar School Hall  
Client: Ministry of Education

Rev no	Date
01	11 June 2019

Project Number: RI/2017/012  
Architect: Razana Amir  
Engineer: Ahmed Zuhail Zaeem  
Drawn by: Razana Amir  
Services: Alifathi Ahmed  
Interior

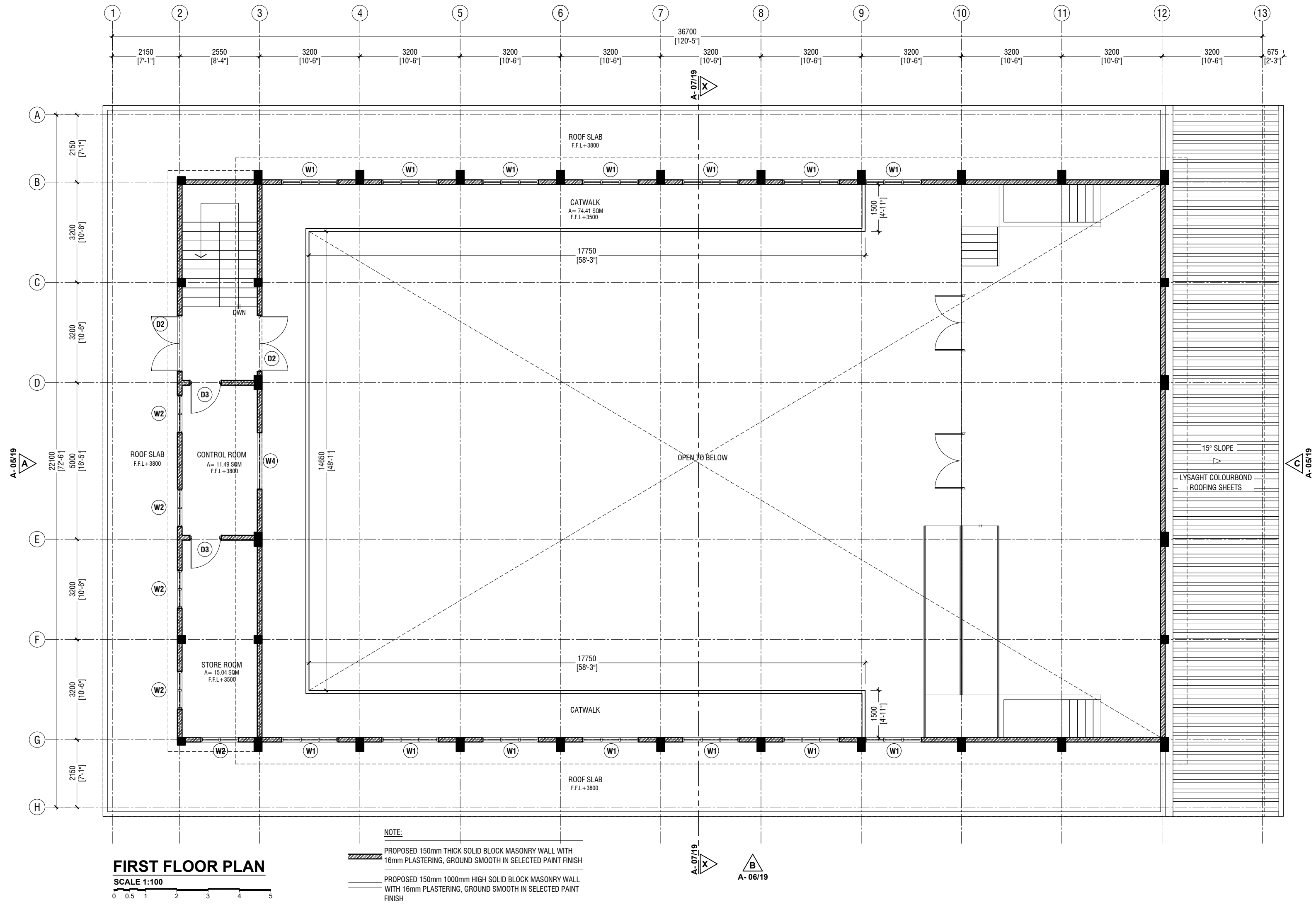


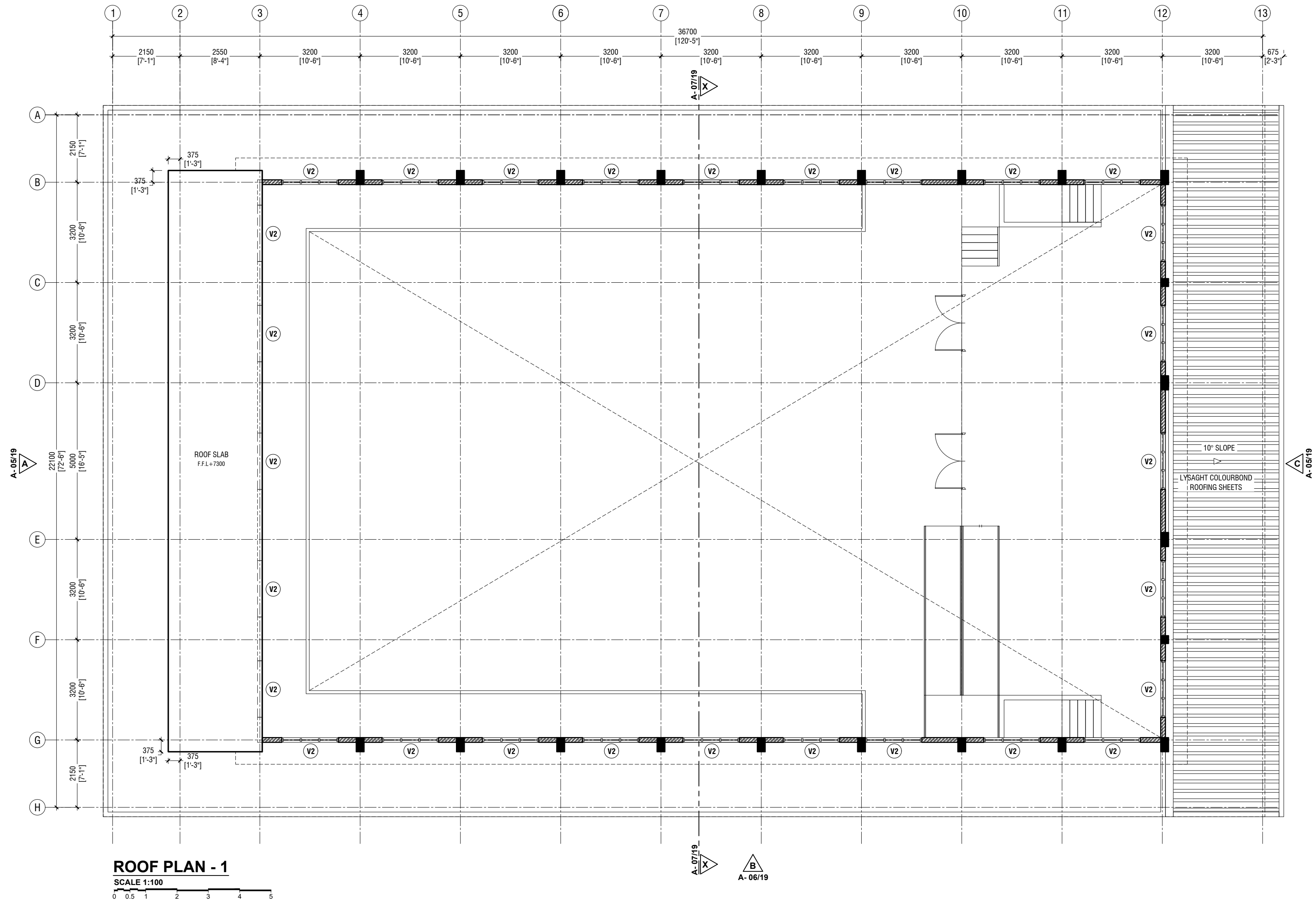
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3rd floor, H. Azum, Ameeremogga, Male

Title: Ground Floor Plan

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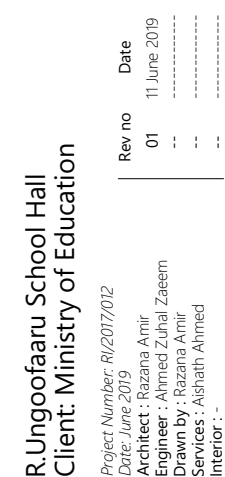
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3rd Floor, H. Azum, Ameeremogga, Male

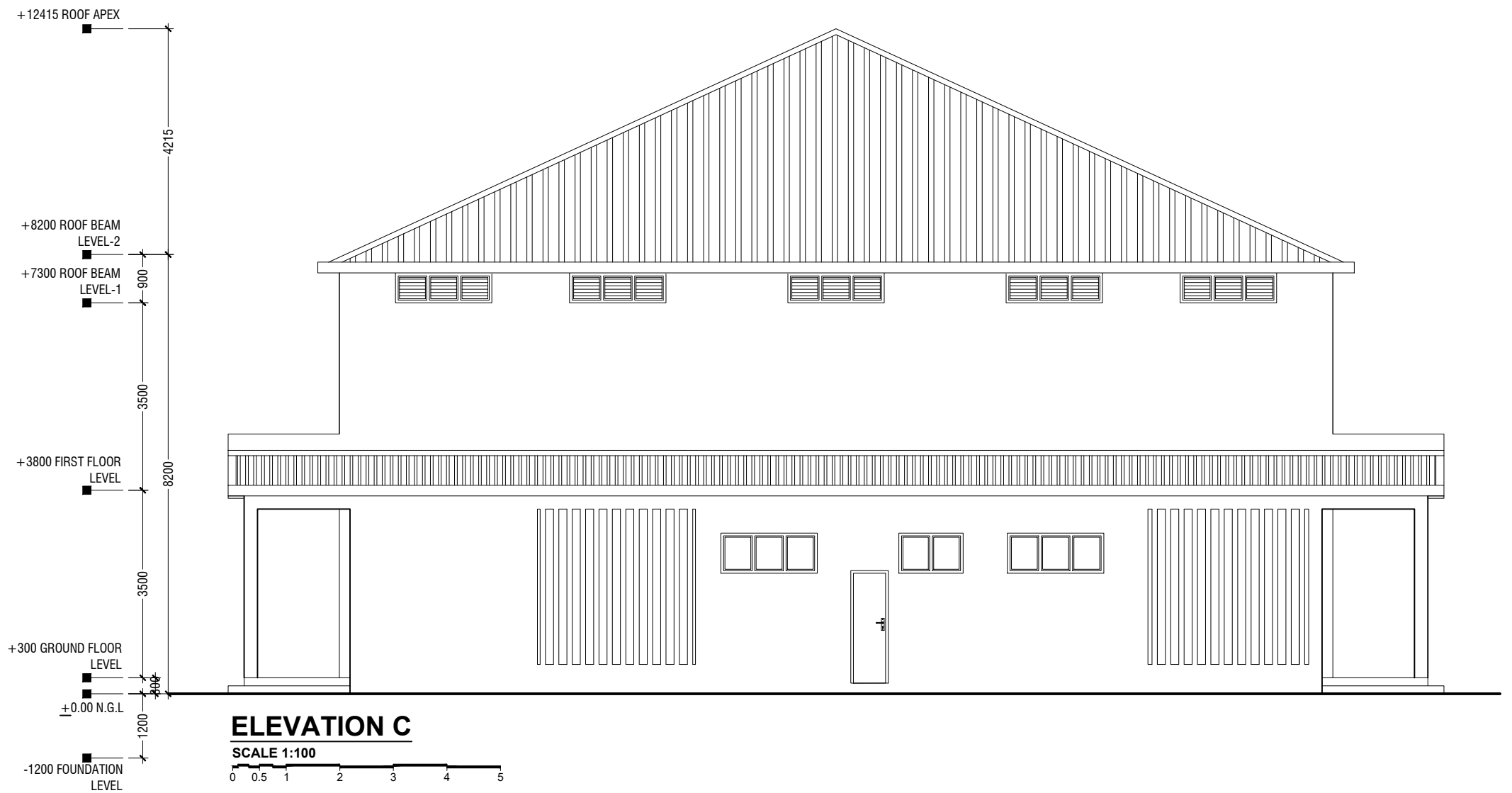
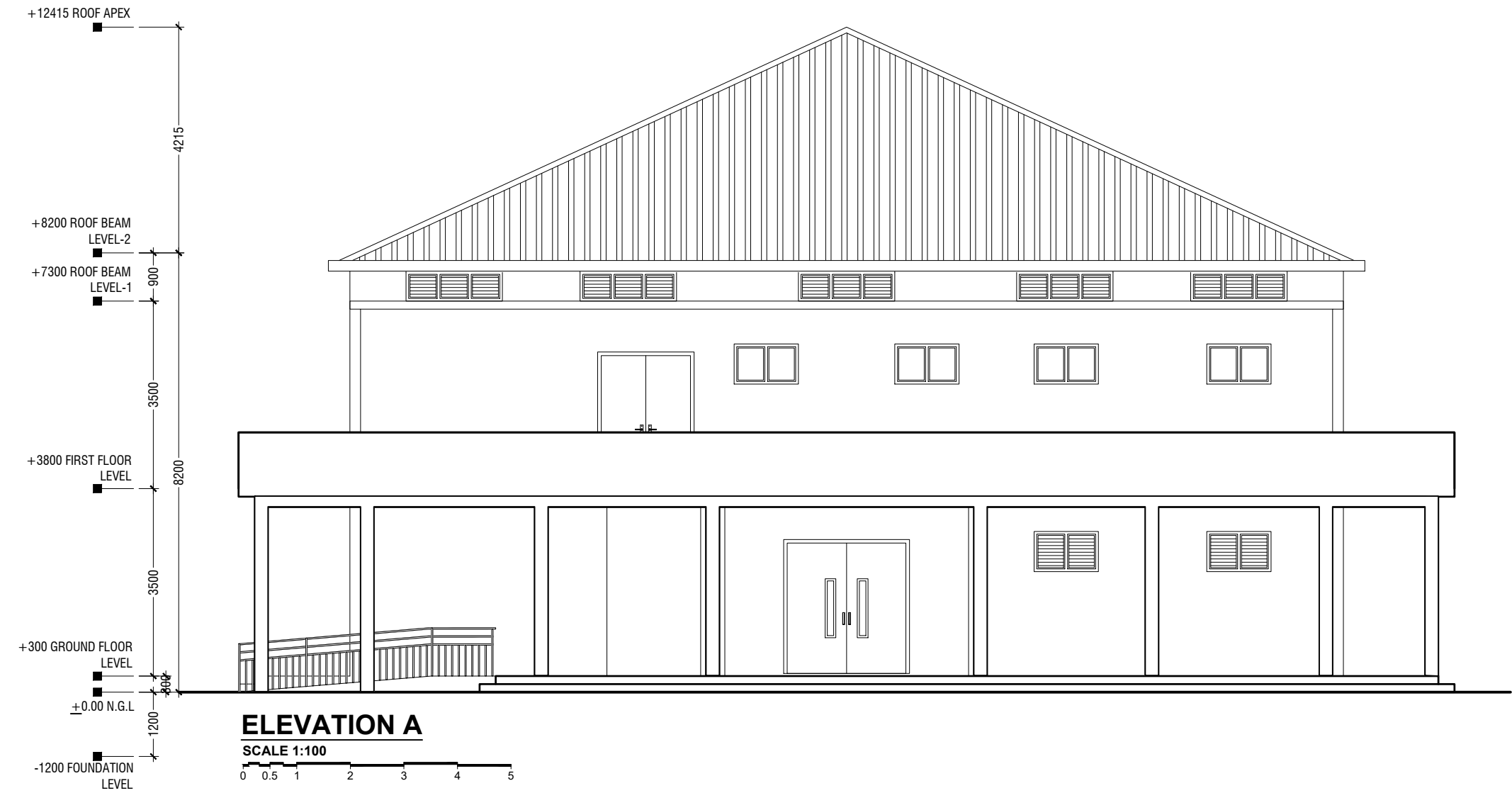
Title: Roof Plan - 1

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R. Ungoofaaru School Hall  
Client: Ministry of Education

Project Number	Rev no	Date
RI/2017/012	01	11 June 2019
Architect: Razana Amir	--	-----
Engineer: Ahmed Z. J. Al Zaim	--	-----
Drawn by: Razana Amir	--	-----
Services: Alhadi Alhadi	--	-----
Interior: .....	--	-----



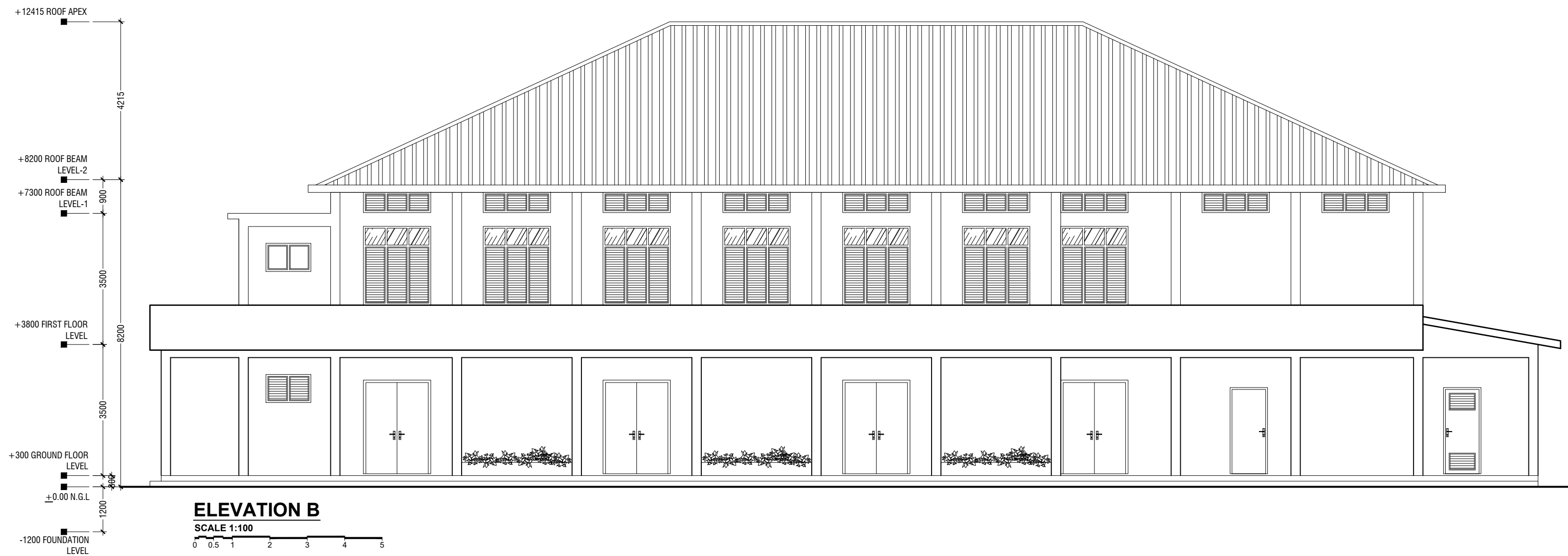
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3rd floor, H. Azumi, Ameeremogga, Male'

Title: Elevation A & C

Page: A-05/19

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R.Ungoofaaruu School Hall  
Client: Ministry of Education

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

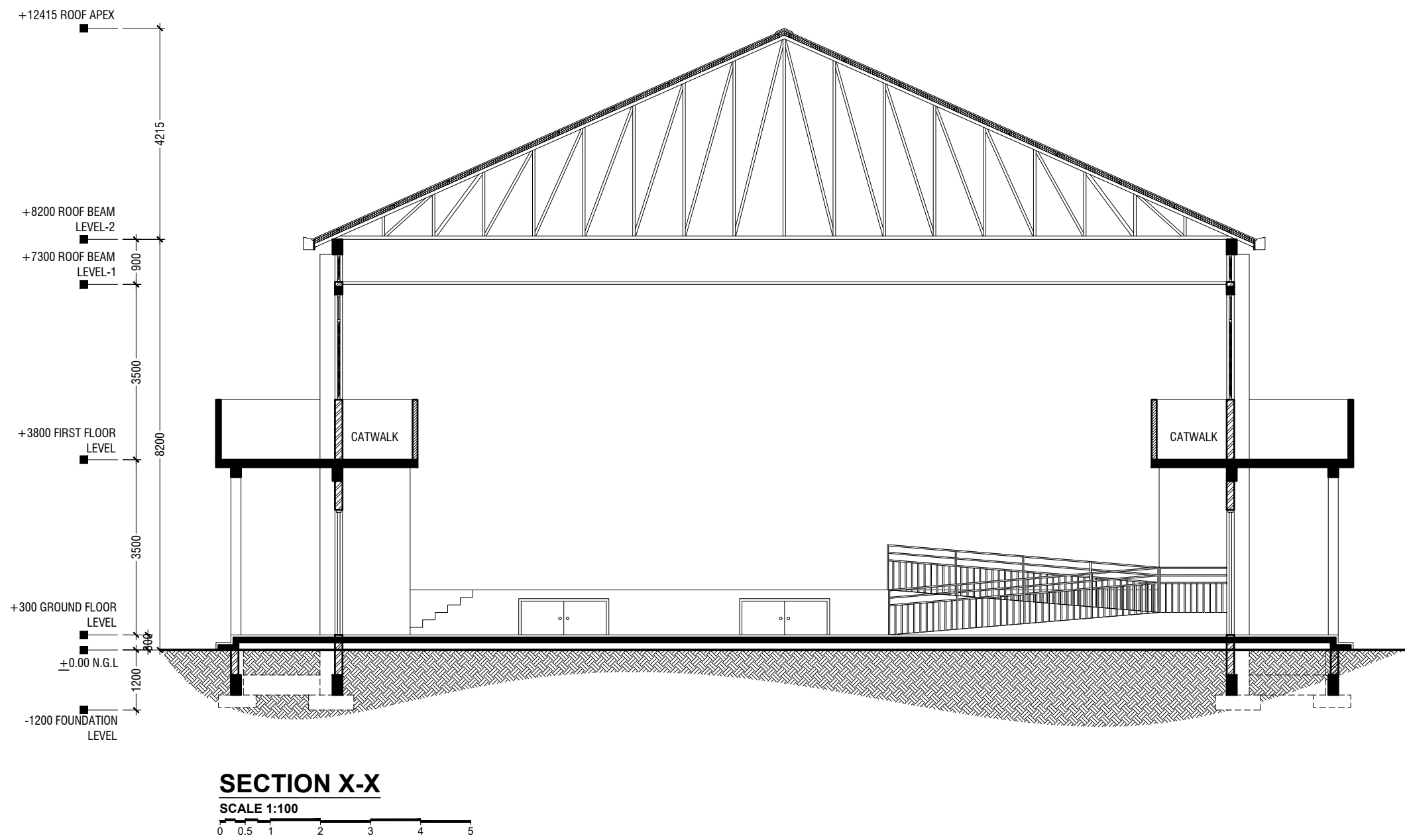
Project Number: RI/2017/002  
Architect: Razana Amir  
Engineer: Ahmed Zuhail Zaeem  
Drawn by: Razana Amir  
Services: Alifathi Ahmed  
Interior: ..



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Title: Elevation B  
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R. Ungoofaaru School Hall  
Client: Ministry of Education

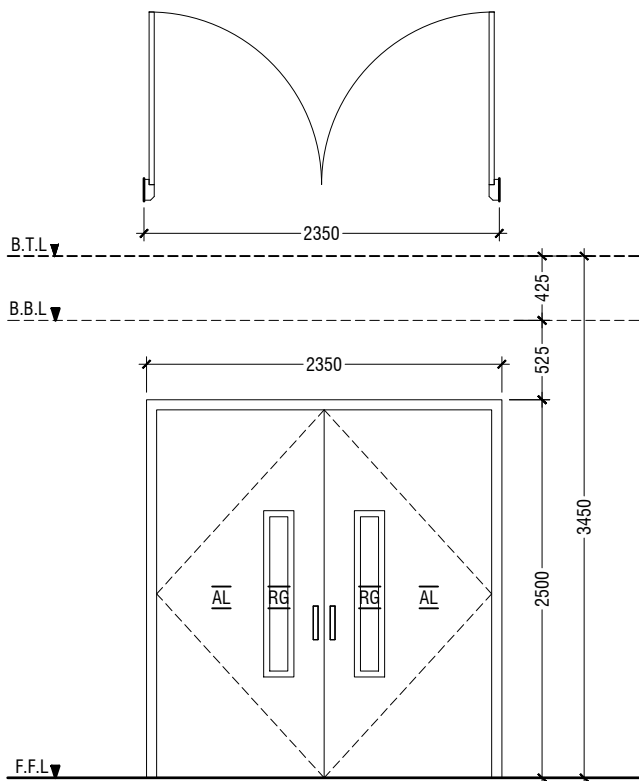
Project Number: RI/2017/012  
Drawing Title: Section X-X  
Architect: Razana Amir  
Engineer: Ahmed Z. J. Al Zaim  
Drawn by: Razana Amir  
Services: Alifathi Ahmed  
Director:

Rev no	Date
01	11 June 2019
--	--
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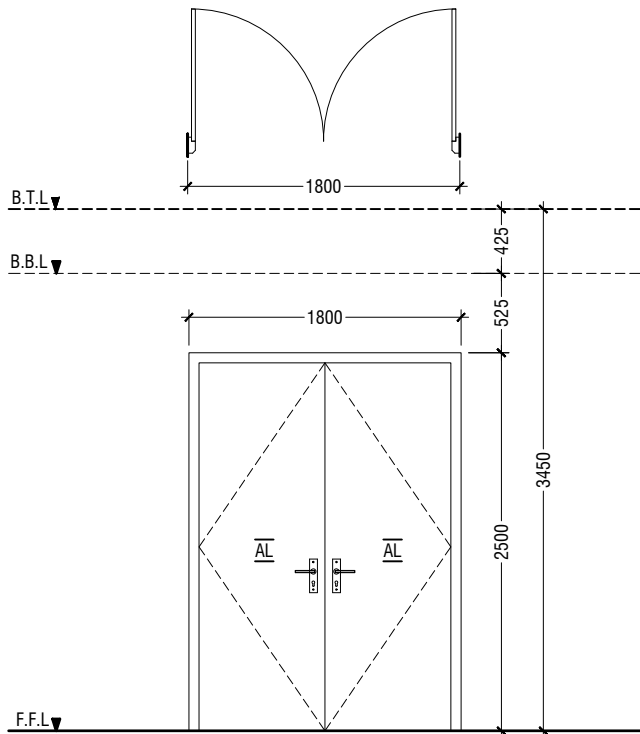
  
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3rd floor, H. Azumi, Ameeremogga, Male

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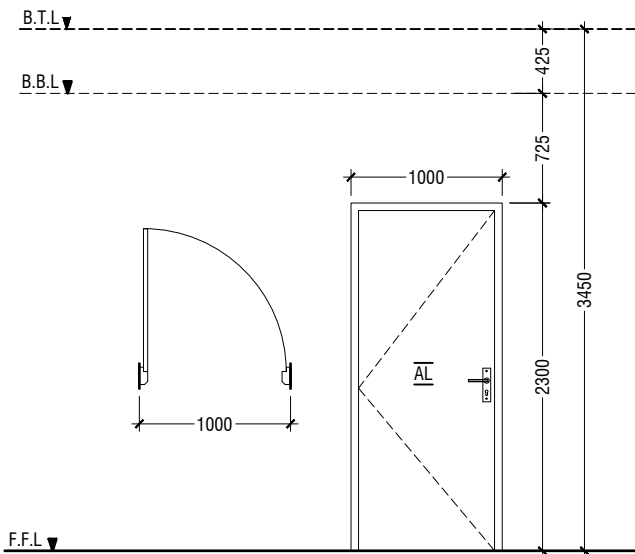
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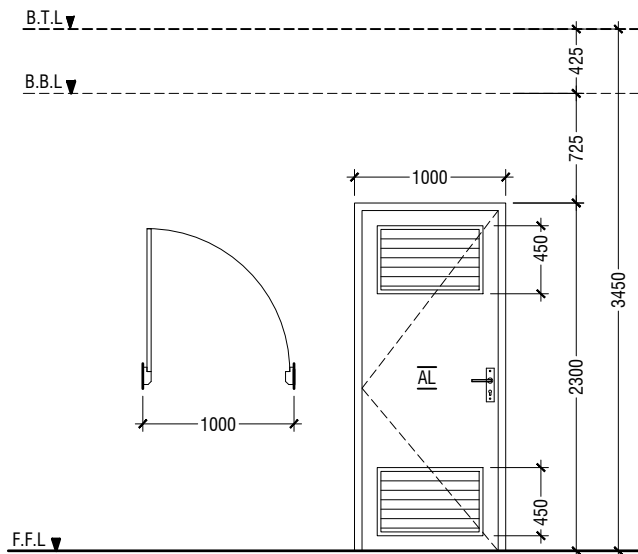
D1	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL GLASS ON PANEL : 6mm THK REFLECTIVE GLASS
LOCATION	HALL MAIN ENTRANCE
QUANTITY	01 NOS
OPEN AREA	5.39 sqm



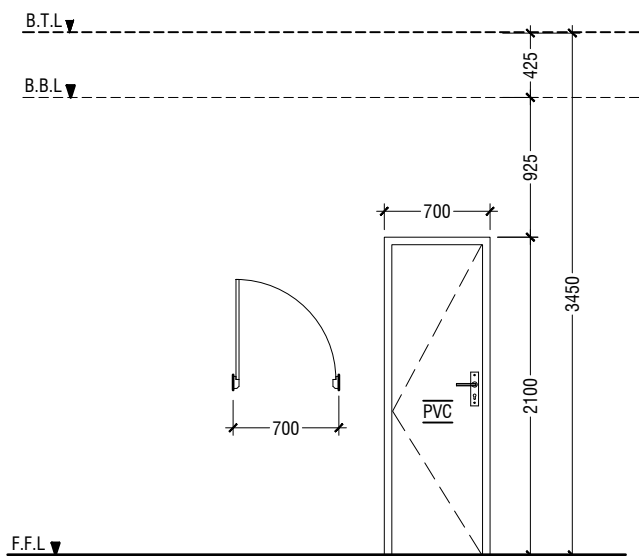
D2	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	HALL ENTRANCE
QUANTITY	10 NOS
OPEN AREA	4.05 sqm



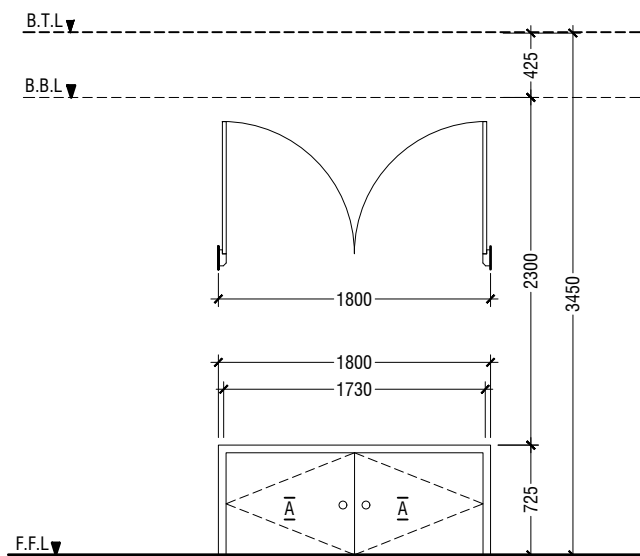
D3	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	STAGE, CONTROL ROOM & STORE ROOM
QUANTITY	05 NOS
OPEN AREA	2.03 sqm



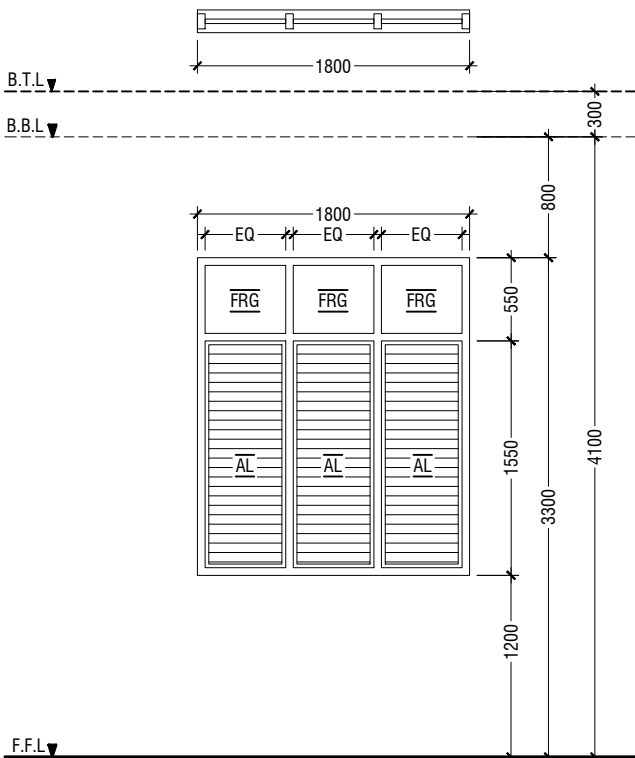
D4	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS
LOCATION	DISABLED TOILET
QUANTITY	01 NOS
OPEN AREA	2.03 sqm



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



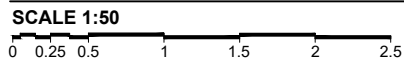
W1	WINDOW WITH FIXED GLASS & ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS AND 6mm THICK REFLECTED FIXED GLASS PANELS
LOCATION	HALL
QUANTITY	14 NOS
OPEN AREA	2.40 sqm

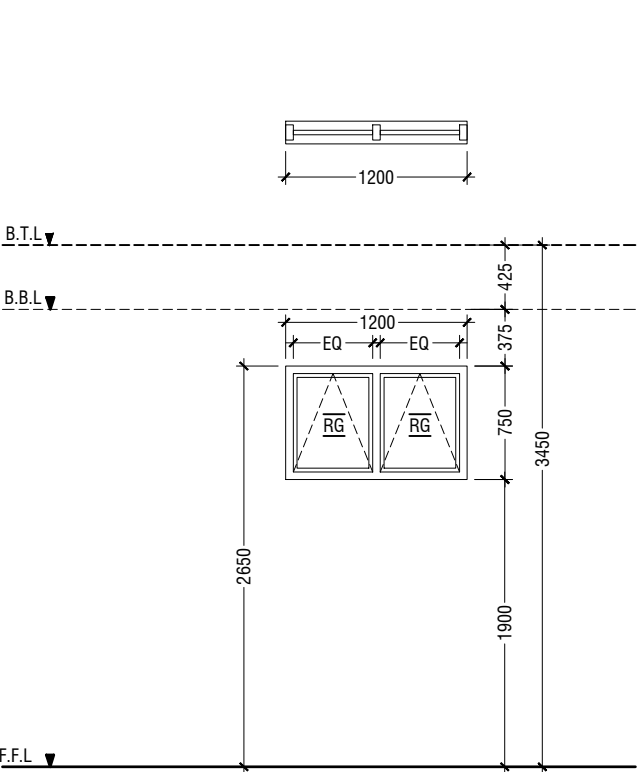
**LEGEND:**  
FCG - FIXED CLEAR GLASS  
FRG - FIXED REFLECTED GLASS  
RG - REFLECTED GLASS  
AL - ALUMINIUM  
PVC - POLYVINYL CHLORIDE

NOTE:-

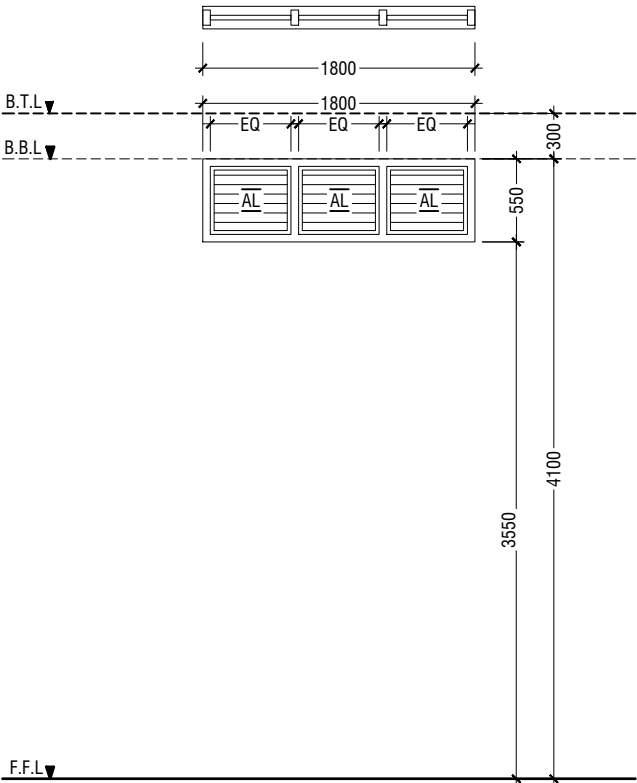
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW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

### DOOR / WINDOW SCHEDULE - 1

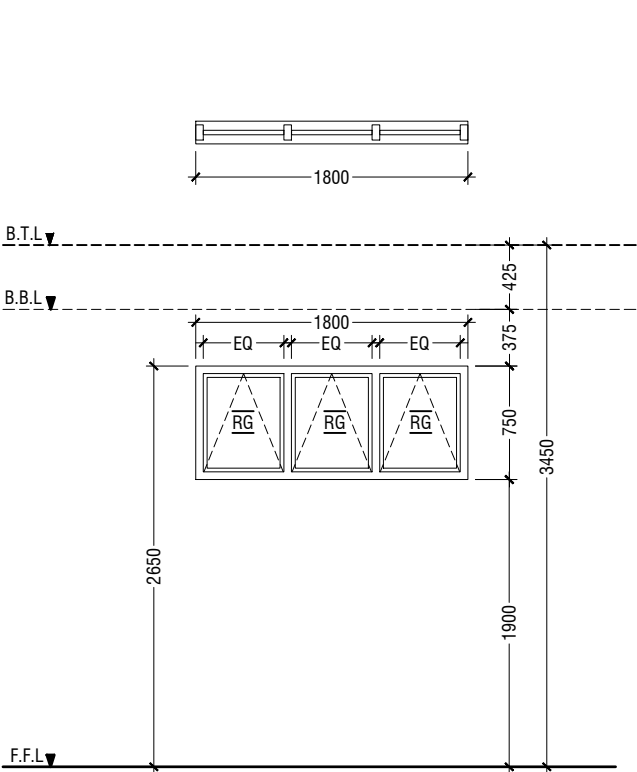




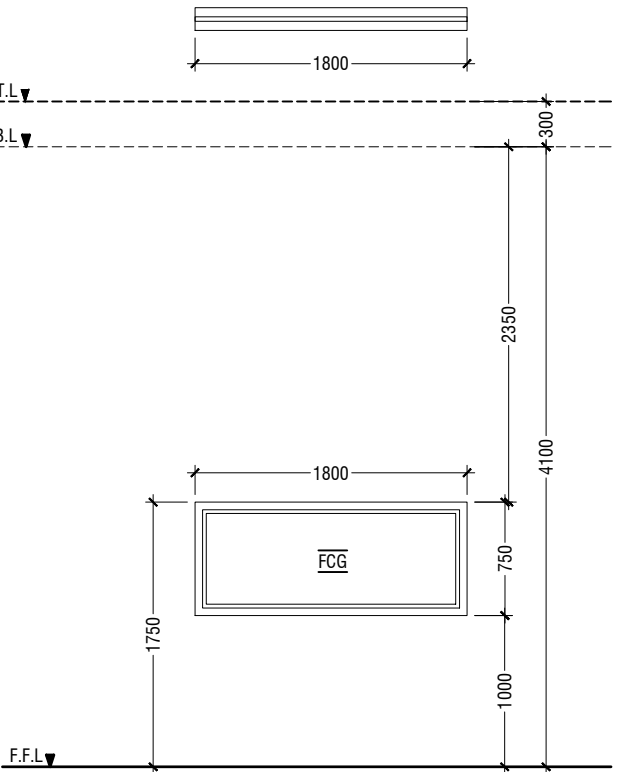
W2	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	STORE ROOM
QUANTITY	06 NOS
OPEN AREA	0.68 sqm



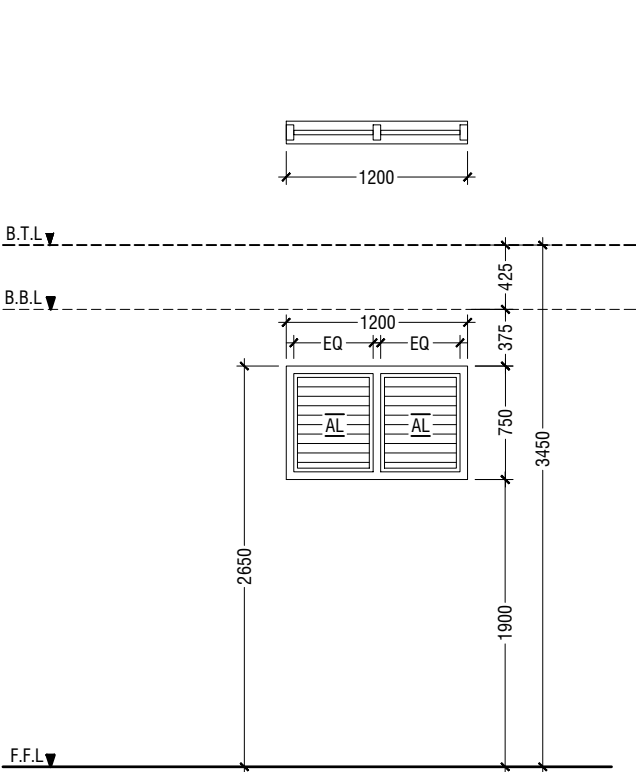
V2	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ABOVE HALL CEILING
QUANTITY	28 NOS
OPEN AREA	0.72 sqm



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.UNGOOFARU SCHOOL

	Room name	Room Areas (sqm) ( Specify centre to centre or clear)	Window (opening) number	Required opening areas (sqm)	Designed opening areas (sqm)	Open %
	<b>Ground Floor</b>					
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			
	<b>First Floor</b>					
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%

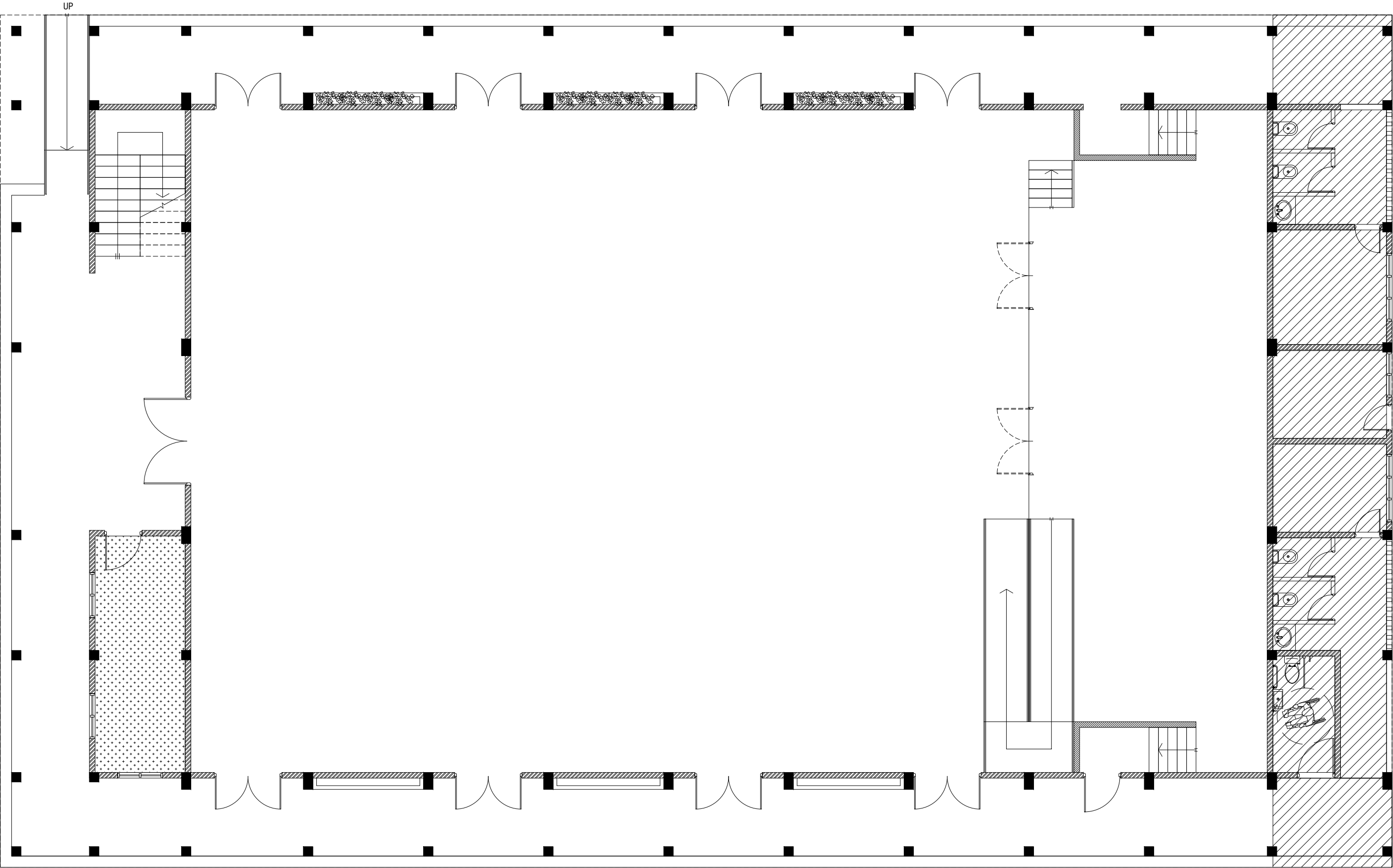
### VENTILATION SCHEDULE

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

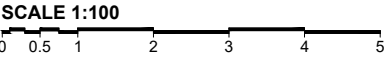
NOTE:-  
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.  
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.  
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.  
- FOR ALL THE WINDOWS PUT A SILL BEAM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



**GROUND FLOOR  
REFLECTED CEILING PLAN**



**LEGEND**

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

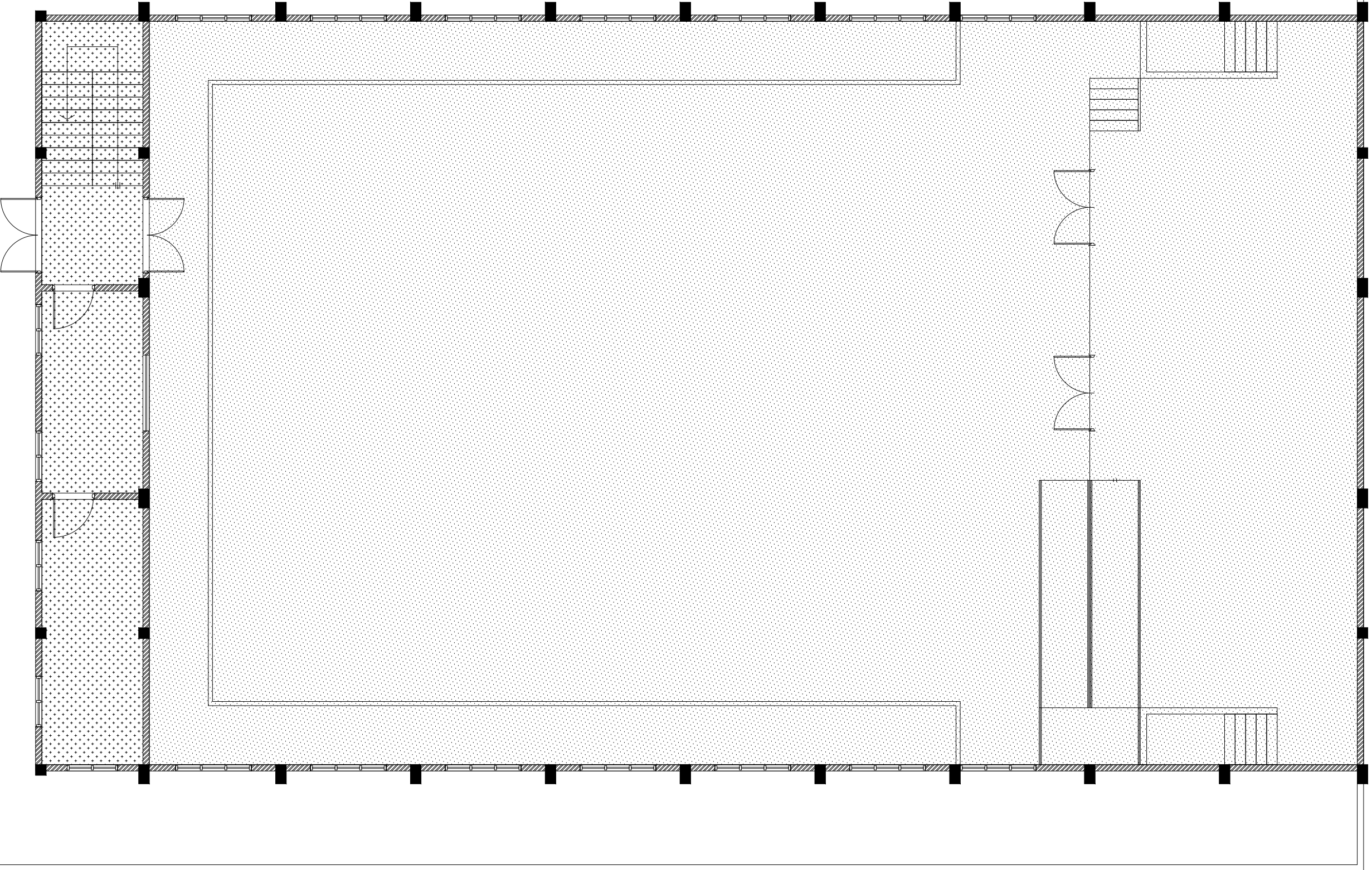
R. Ungoofaaru School Hall  
Client: Ministry of Education

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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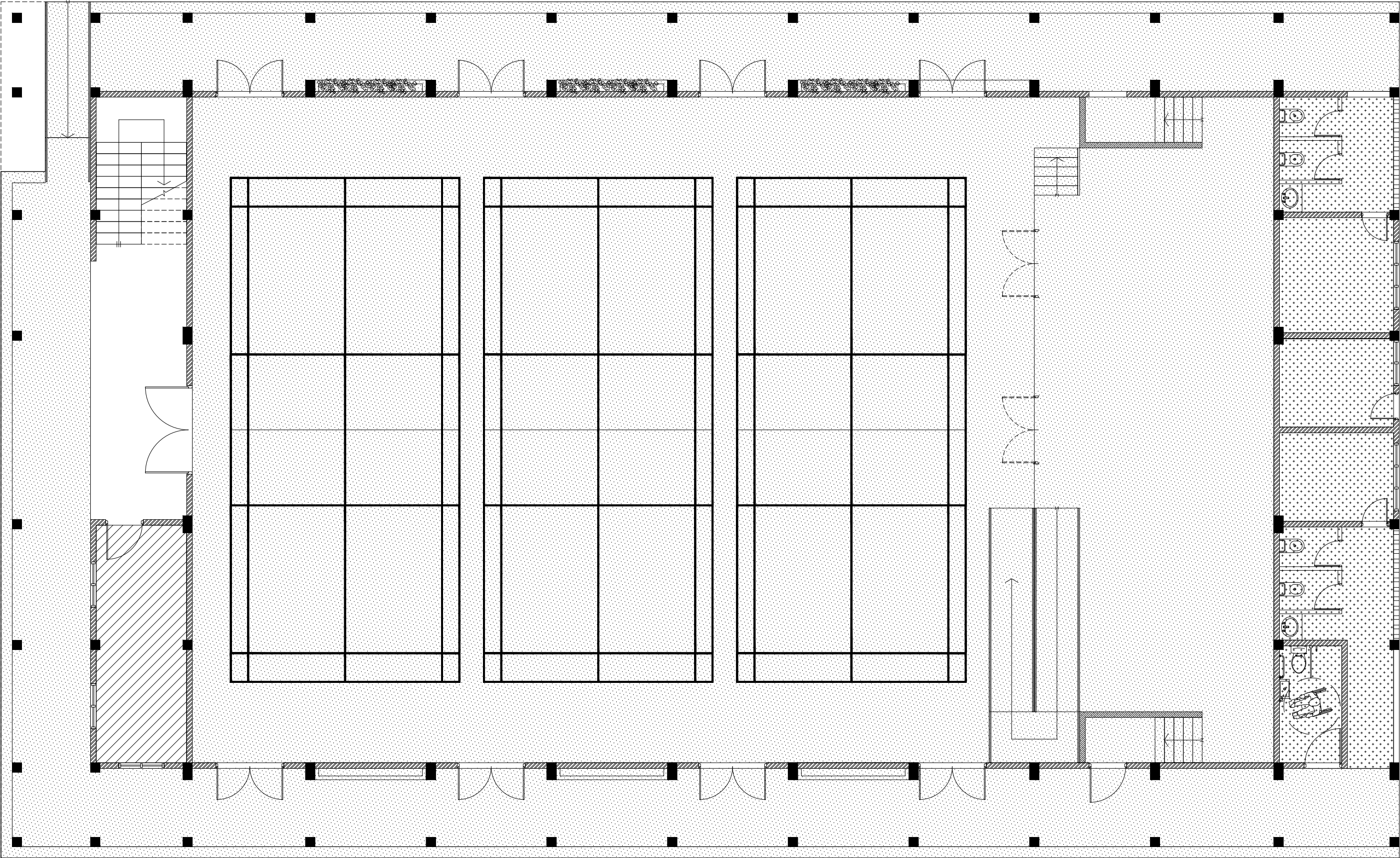
**FIRST FLOOR**  
**REFLECTED CEILING PLAN**

SCALE 1:100

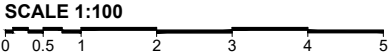
0 0.5 1 2 3 4 5

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

R Ungoofaar 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 Zuhair Zaeem	--	-----
Drawn by: Razana Amir	--	-----
Services: Aishath Ahmed	--	-----
Interior: -	--	-----

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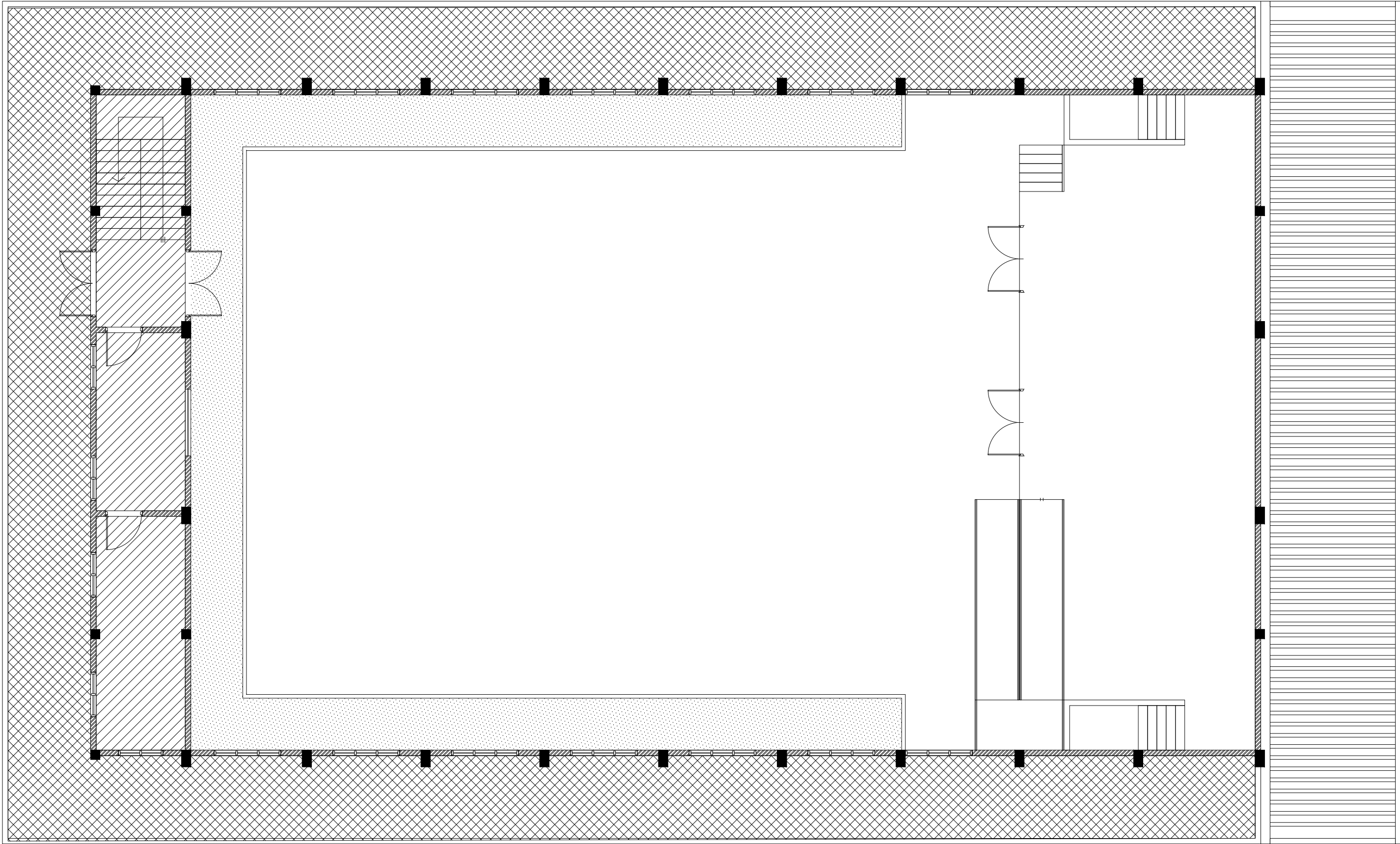
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Title: Door / Window  
Schedule - 2

Page: A-12/19

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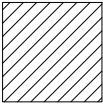


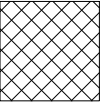
**FIRST FLOOR  
FLOOR FINISHES PLAN**

SCALE 1:100

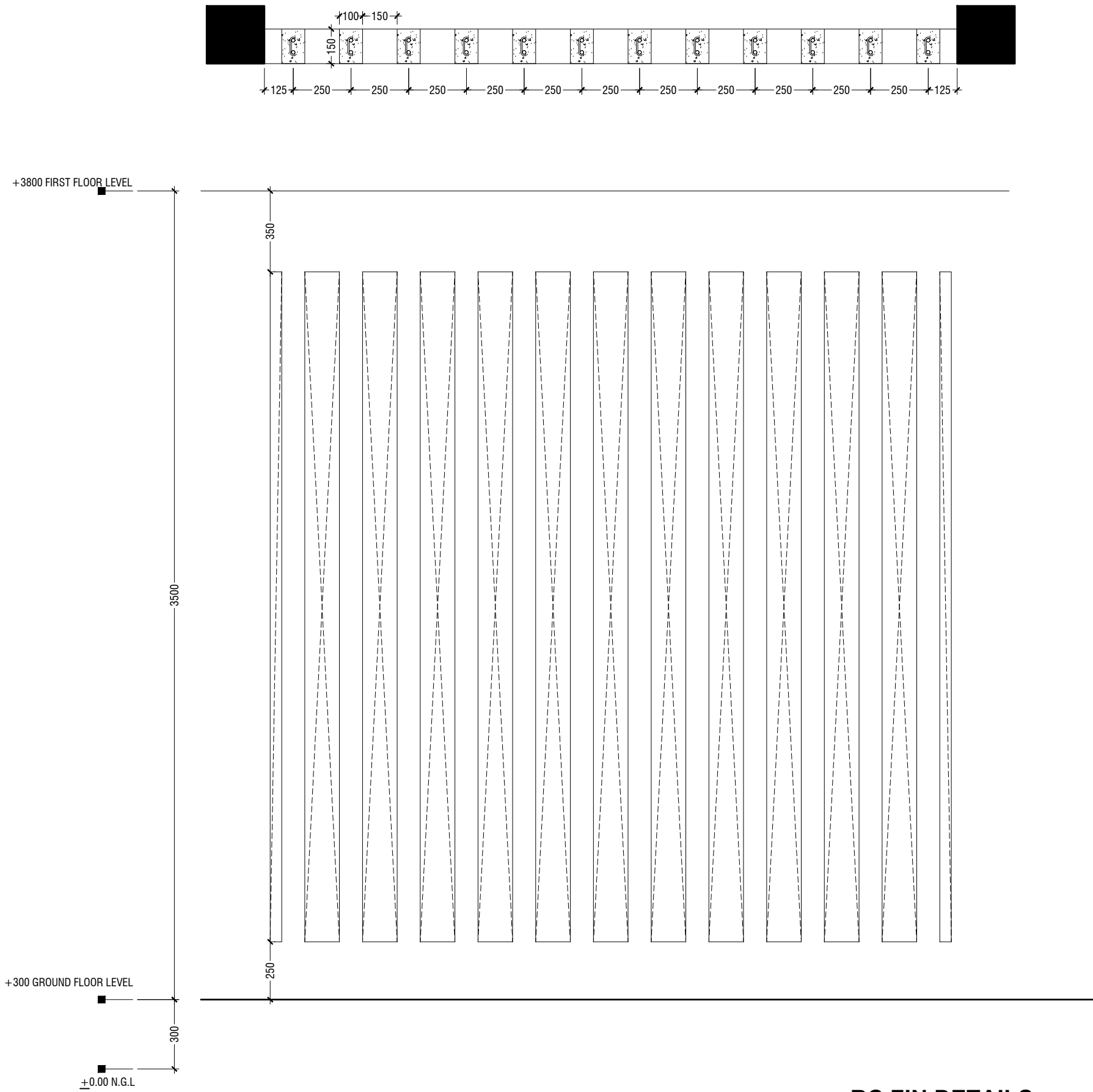
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LEGEND

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
---	---





RC FIN DETAILS

SCALE 1:20



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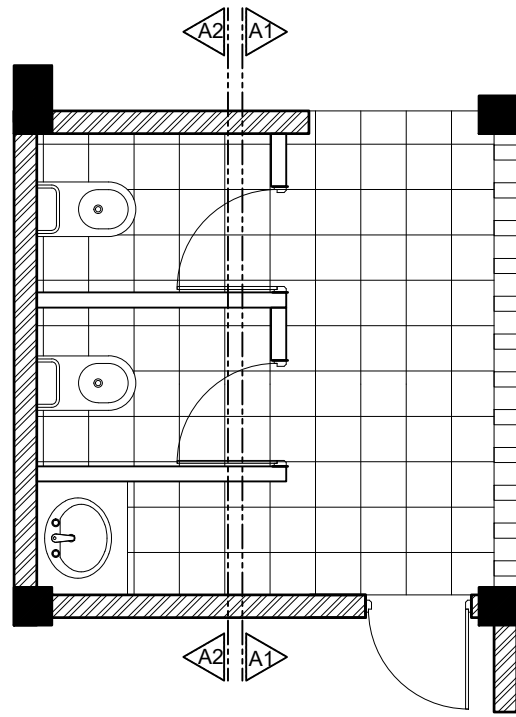
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Page: A-15/19

R. Ungoofaar School Hall  
Client: Ministry of Education

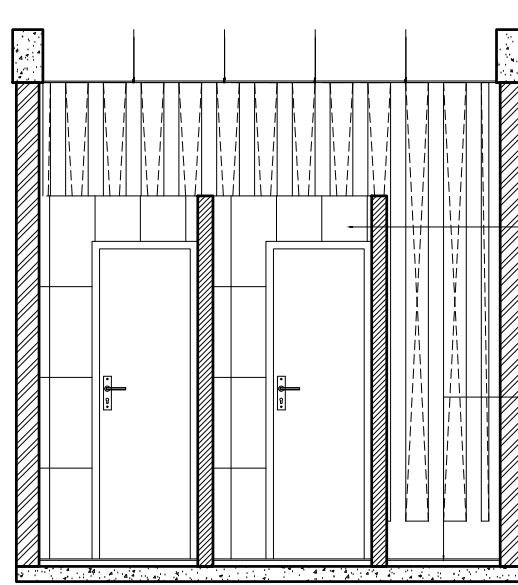
Project Number: RI/2017/012	Rev no	Date
Date: June 2019	01	11 June 2019
Architect: Razana Amir	--	-----
Engineer: Ahmed Zuhair Zaeem	--	-----
Drawn by: Razana Amir	--	-----
Services: Alshath Ahmed	--	-----
Interior: -	--	-----

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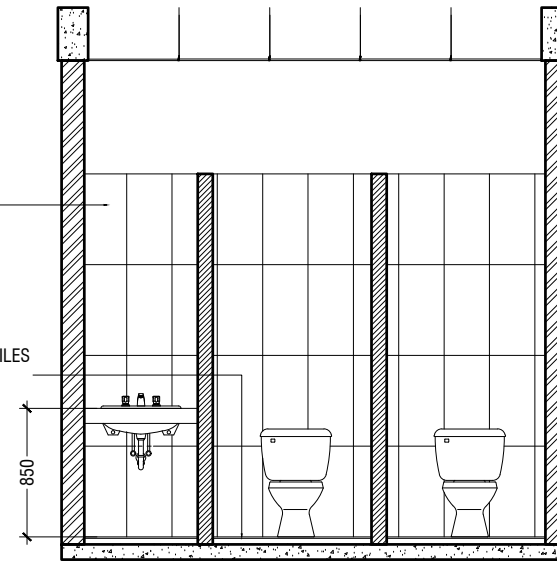
**TYPICAL TOILET PLAN**

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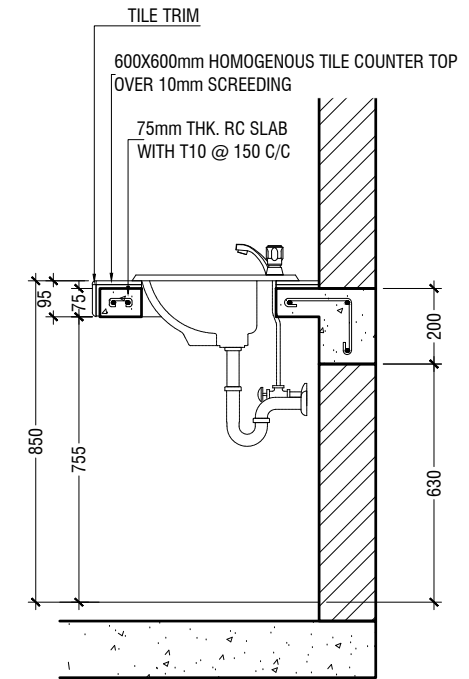
**SECTION A1-A1**

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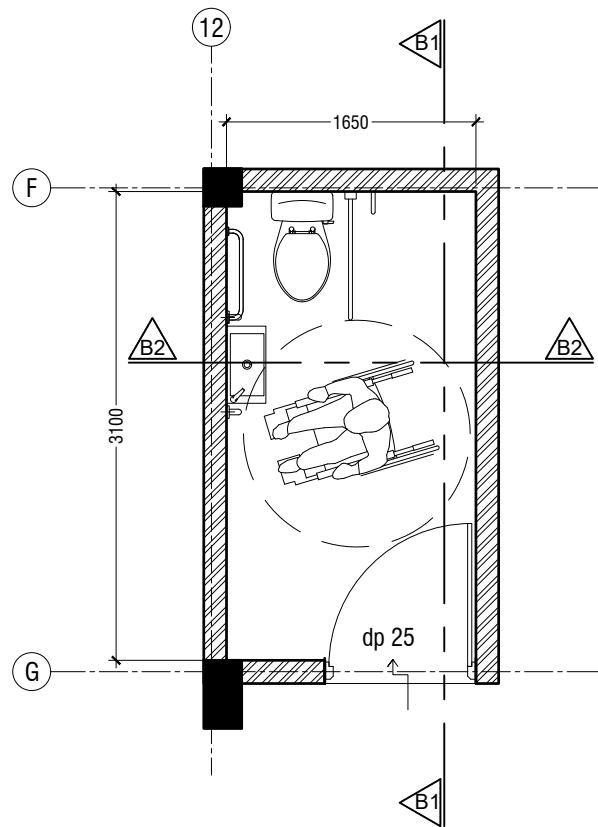
**SECTION A2-A2**

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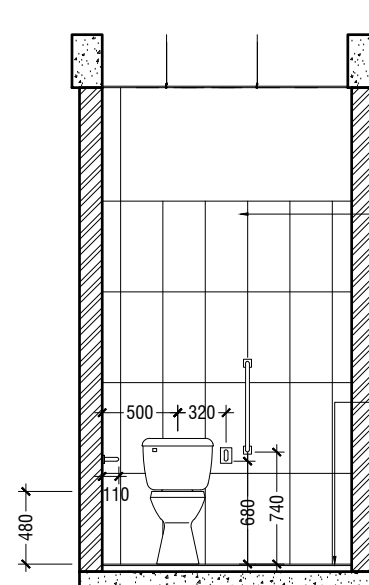
**COUNTER TOP DETAILS**

SCALE 1:20  
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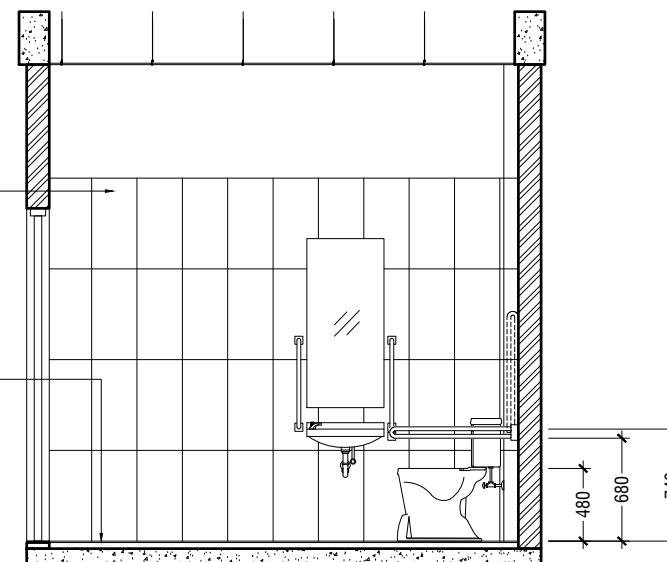
**TOILET FOR PERSONS WITH DISABILITIES PLAN**

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

R.Ungoofaar School Hall  
Client: Ministry of Education

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01	11 June 2019
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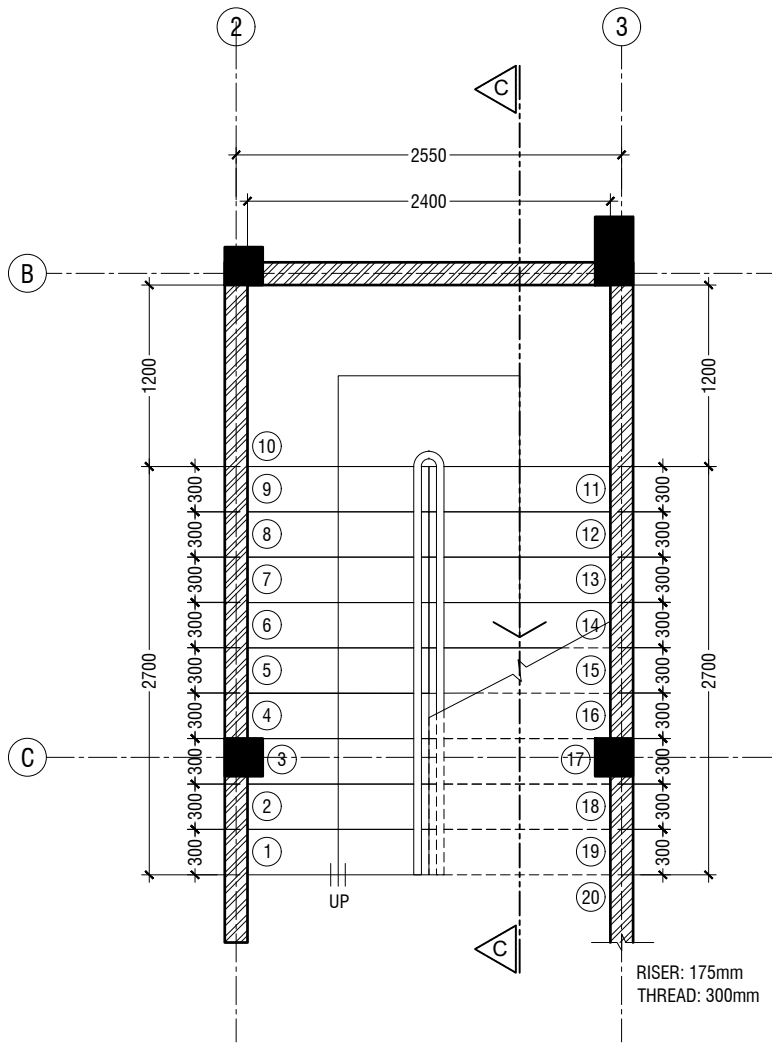
Project Number: RI/2017/012  
Date: June 2019  
Architect: Razana Amir  
Engineer: Ahmed Zuhair Zaeem  
Drawn by: Razana Amir  
Services: Alshath Ahmed  
Interior: -



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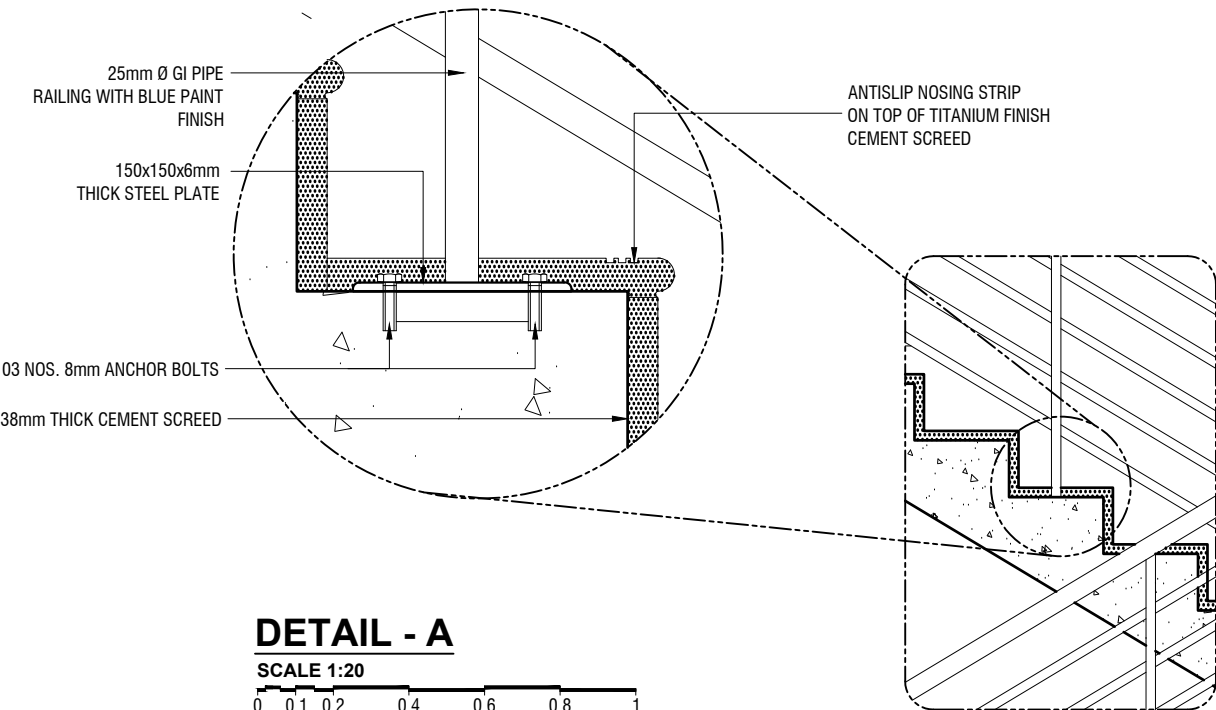
t: +9603315049 f: +9603310776  
e: info@ryan.com.mv  
w: www.ryan.com.mv  
3rd floor, H. Azum, Ameenemagau, Male'

Title: Toilet details



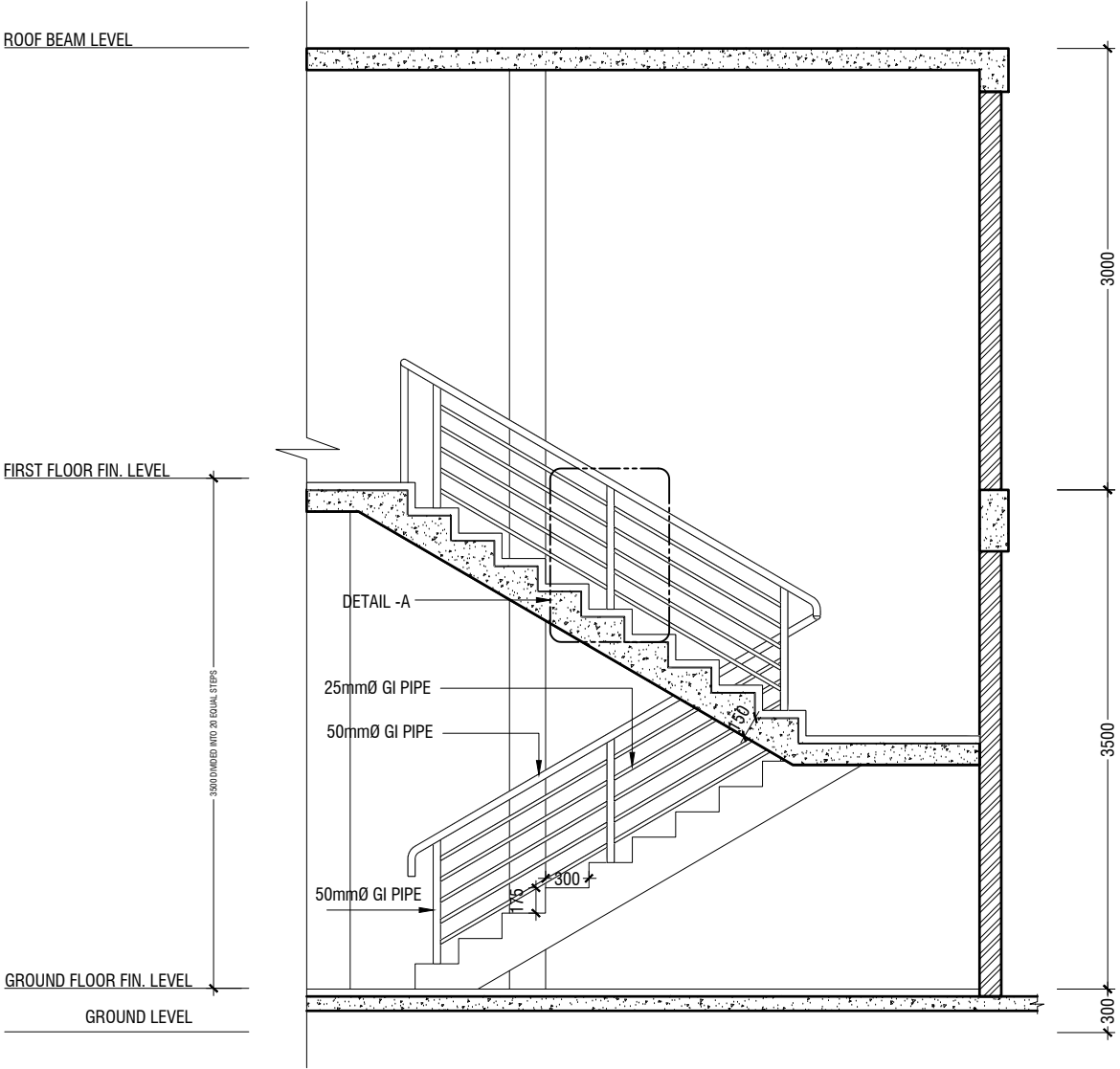
MAIN STAIRCASE PLAN

SCALE 1:50



DETAIL - A

SCALE 1:20



SECTION C-C

SCALE 1:50

MAIN STAIRCASE DETAILS

SCALE 1:50

R.Ungoofaar School Hall  
Client: Ministry of Education

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

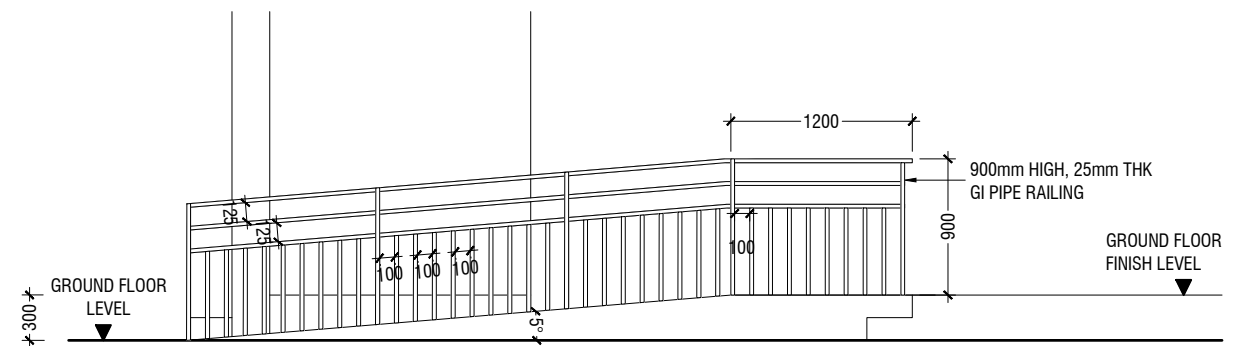
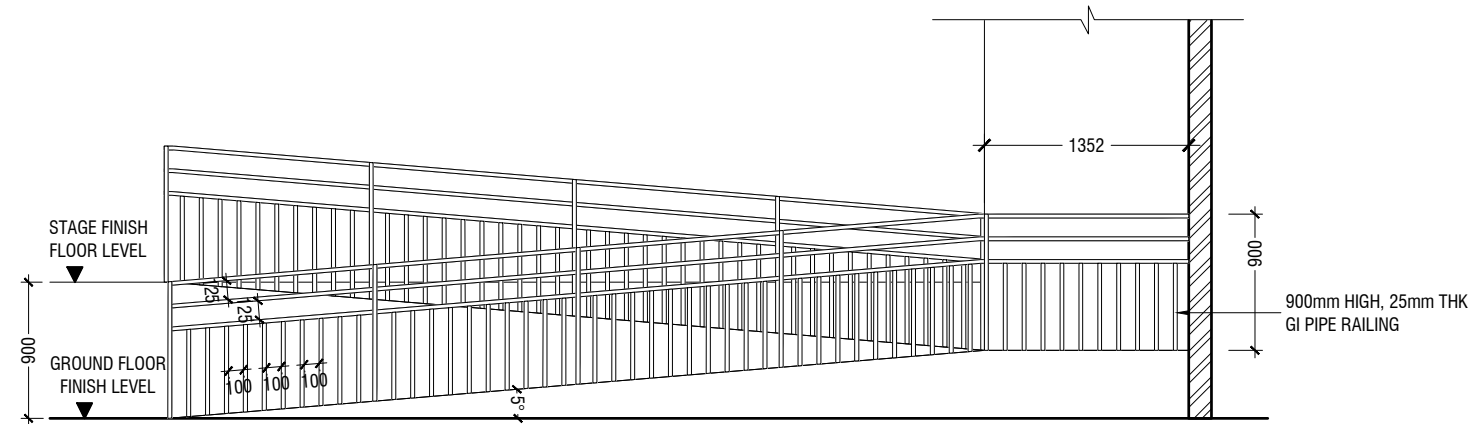
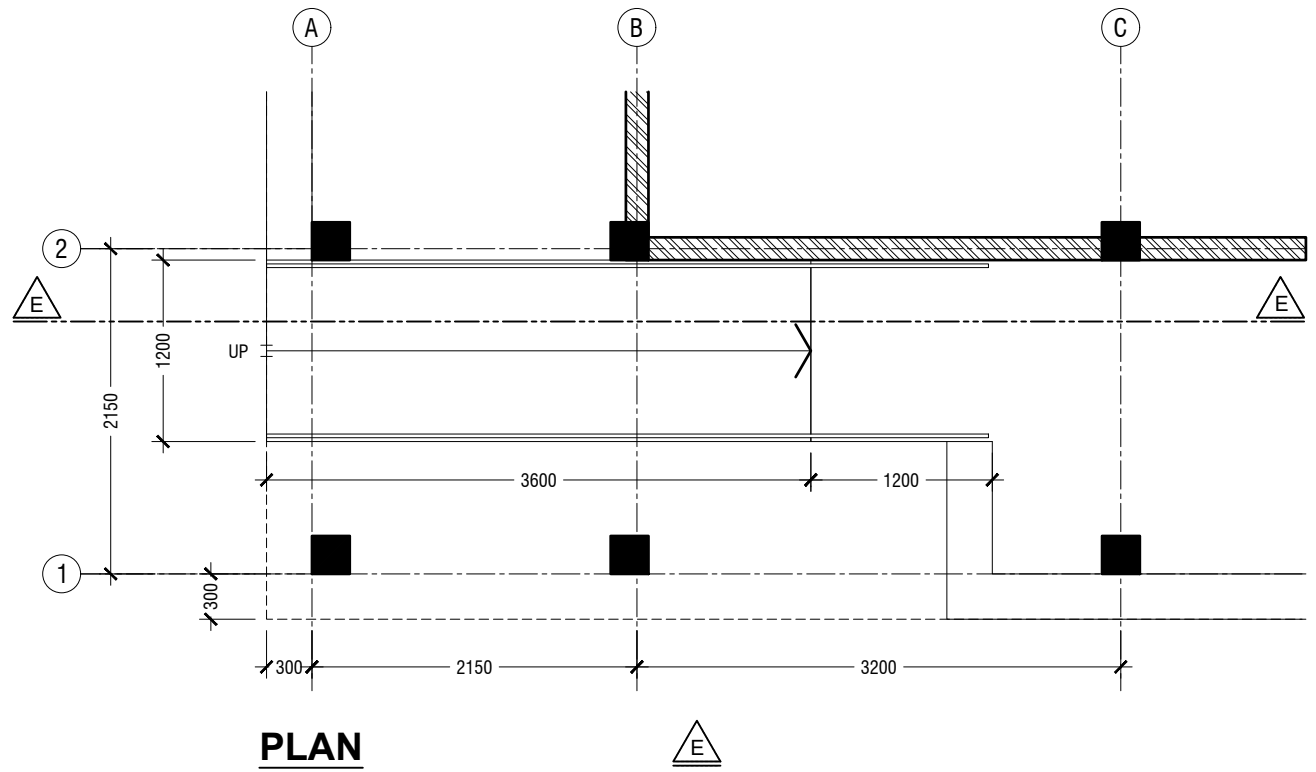
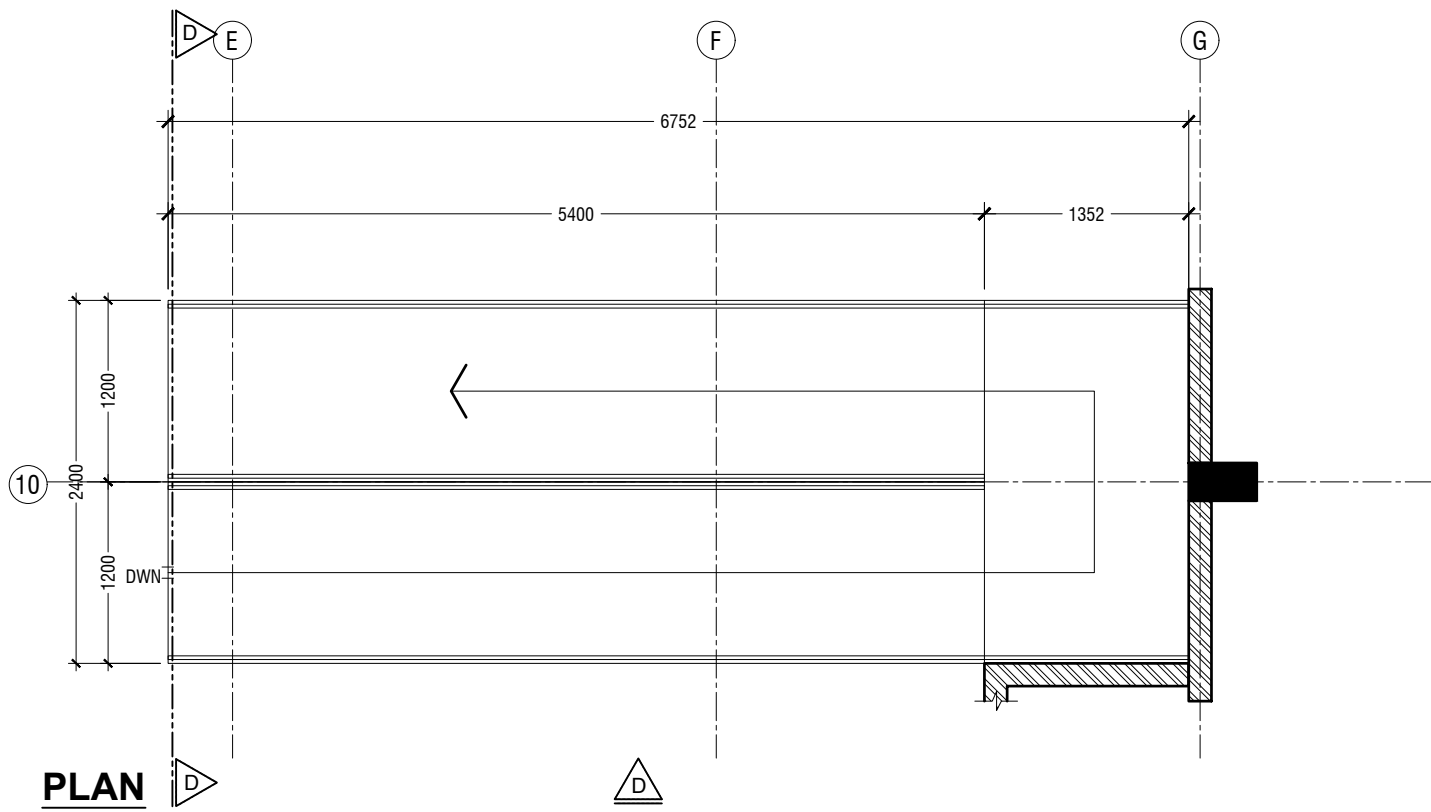
Project Number: RI/2017/012  
Date: June 2019  
Architect: Razana Amir  
Engineer: Ahmed Zuhair Zaeem  
Drawn by: Razana Amir  
Interior: -



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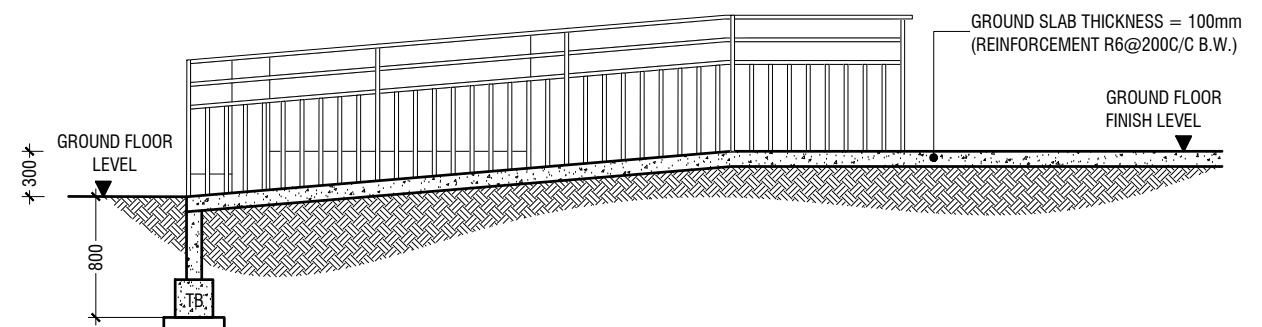
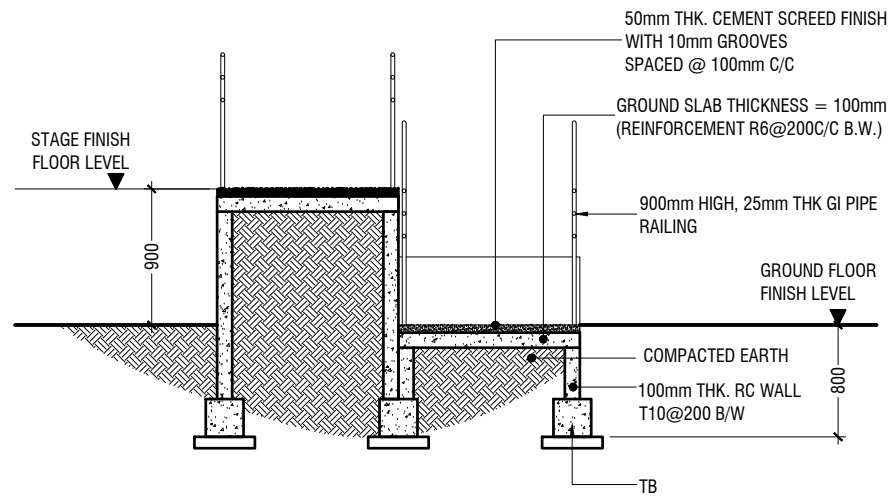
t: +9603315049 f: +9603310776  
e: info@ryan.com.mv  
w: www.ryan.com.mv  
3rd floor, H. Azum, Ameerseemagau, Male'

Title: Main Staircase Detail



**ELEVATION D**

**ELEVATION E**



**STAGE RAMP DETAIL**

**SECTION D-D**

**SECTION E-E**

**MAIN ENTRANCE RAMP DETAIL**

SCALE 1:50  
0 0.25 0.5 1 1.5 2 2.5

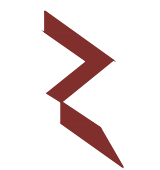
SCALE 1:50  
0 0.25 0.5 1 1.5 2 2.5

R. Ungoofaaru 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  
01

Date  
11 June 2019



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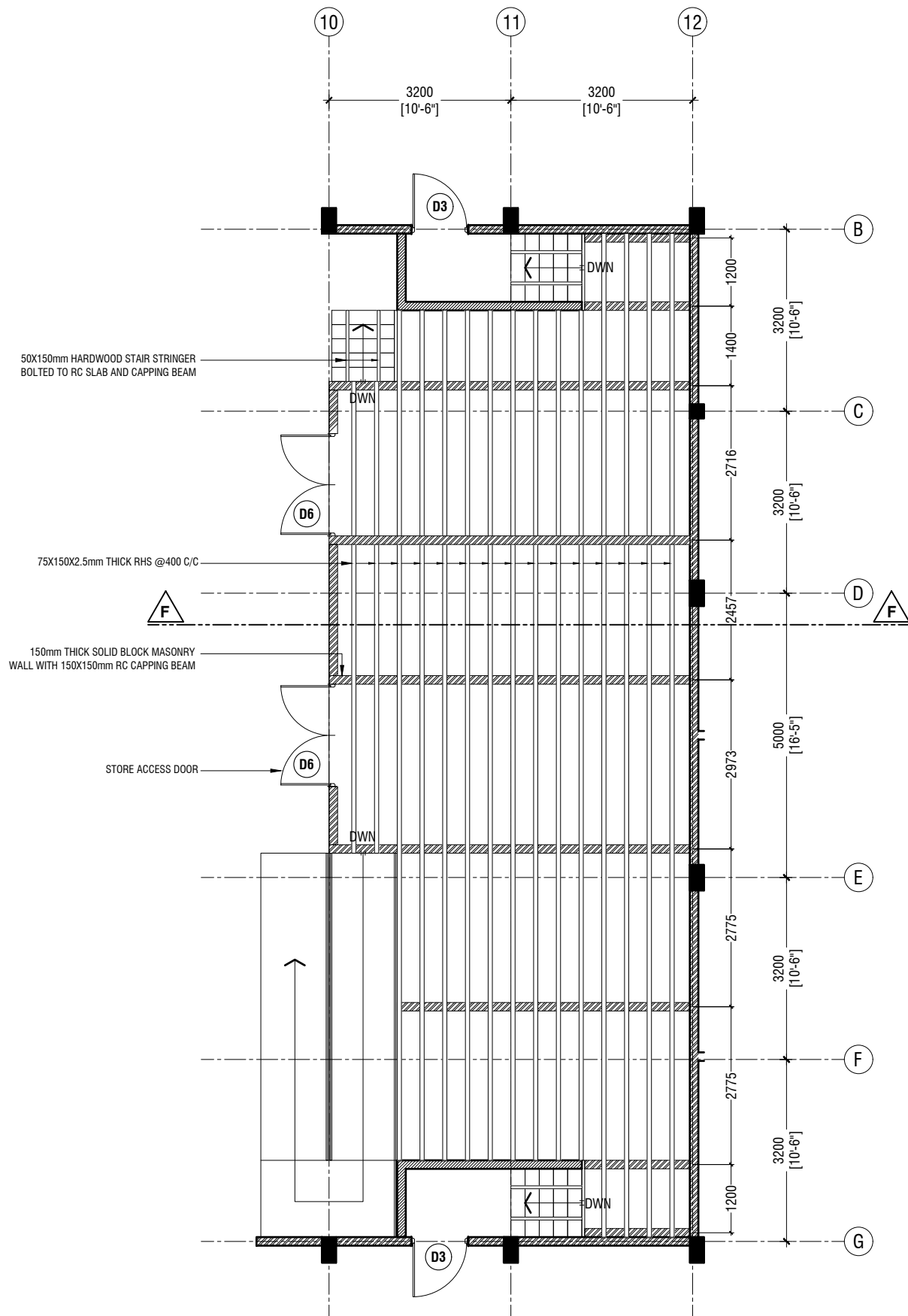
t: +9603315049 f: +9603310776  
e: info@riyan.com.mv  
w: www.riyan.com.mv  
3rd floor, H. Azumi, Ameerineemagu, Male'

Title: Stage Ramp Detail

Page: A-18/19

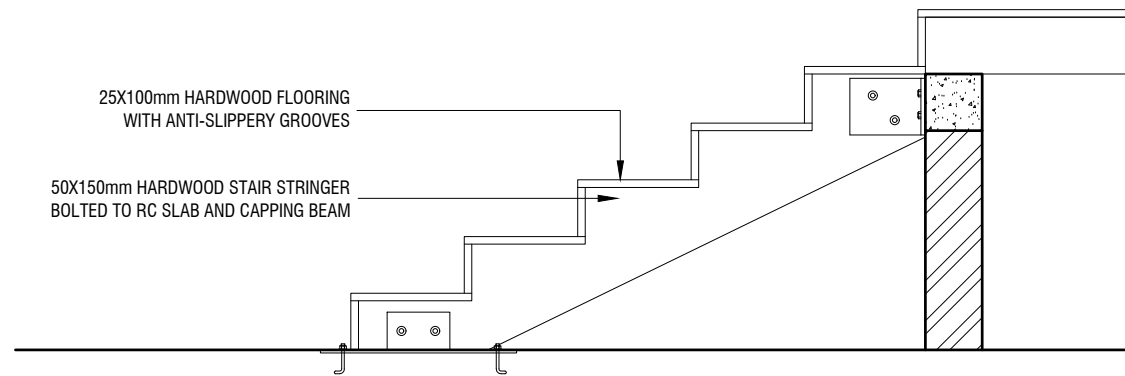
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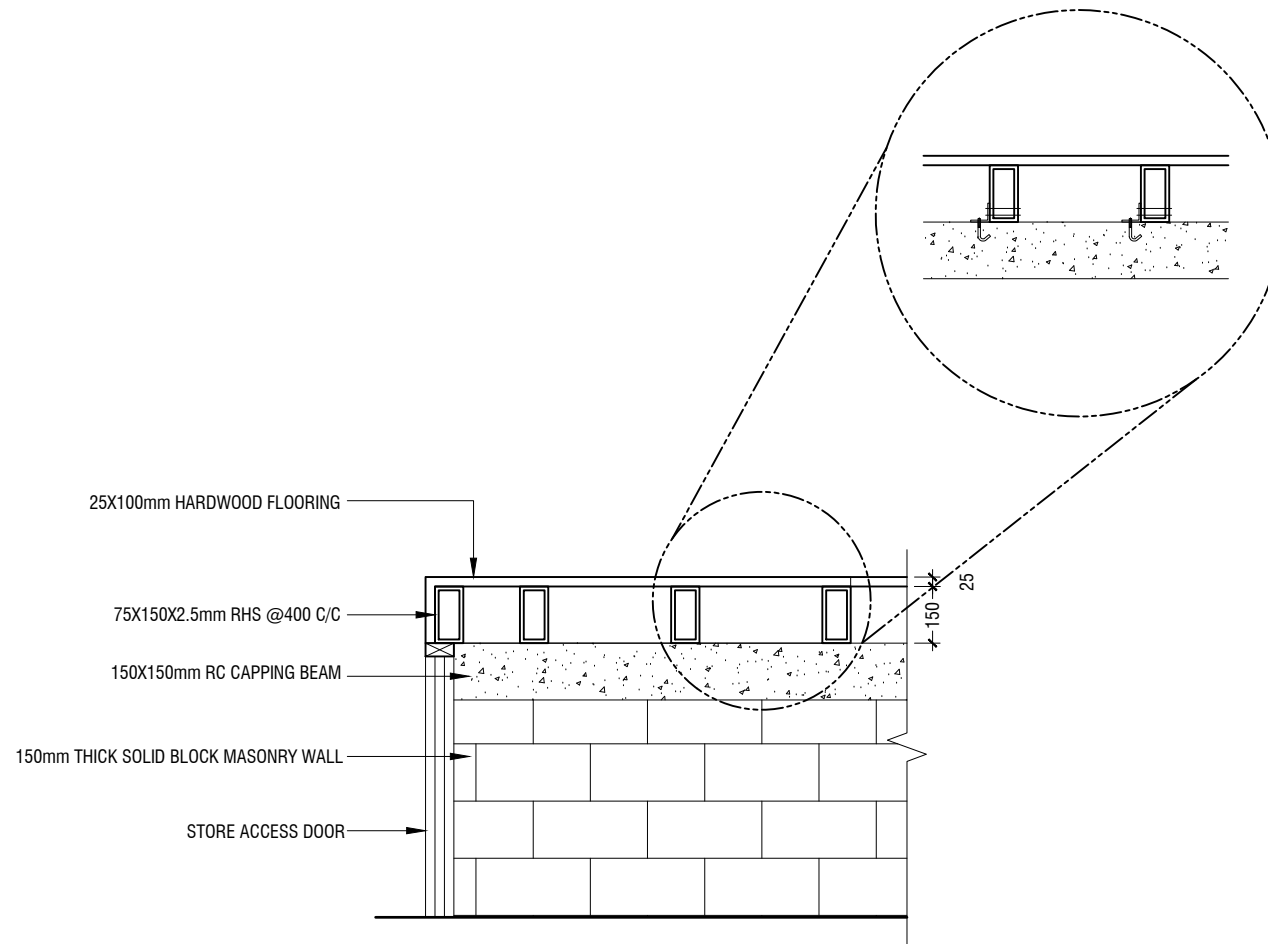
**STAGE FRAMING PLAN**  
SCALE 1:100

0 0.5 1 2 3 4 5



**STAIR DETAIL**  
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



**SECTION F-F**  
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

R.Ungoofaar 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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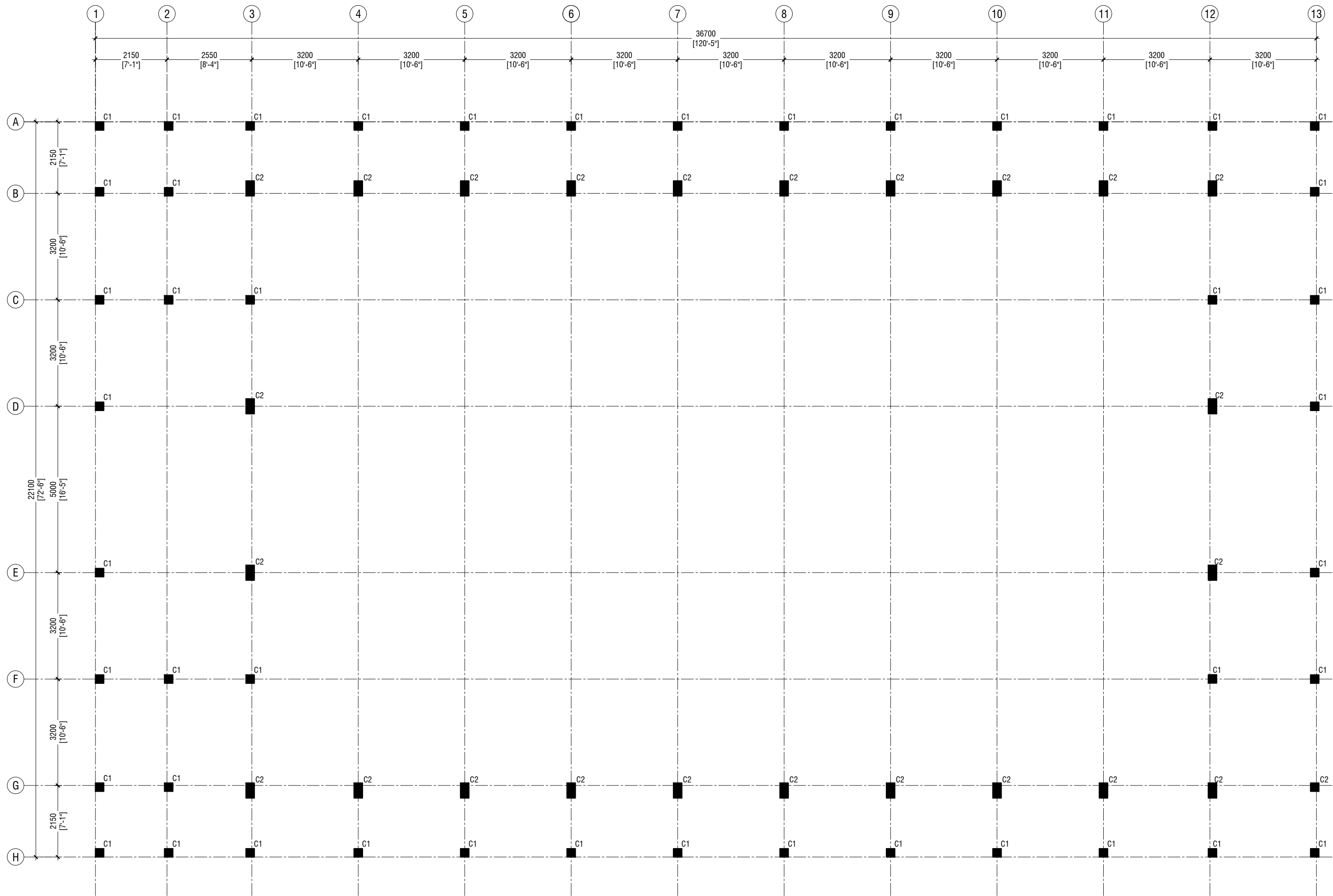
t: +9603315049 f: +9603310776  
e: info@ryan.com.mv  
w: www.ryan.com.mv  
3rd floor, H. Azum, Ameerseemagau, Male'

Title: Stage Framing Plan & Details  
& Details

Page: A-19/19

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**GROUND FLOOR COLUMN LAYOUT PLAN**

SCALE 1:100



**NOTE:**

**COLUMN SIZES**

C1 : 250 x 250 mm

C2 : 250 x 450 mm

COVER : 35-40mm

**R. Ungoofaar 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: Alhath Alhath  
Interior: Alhath Alhath



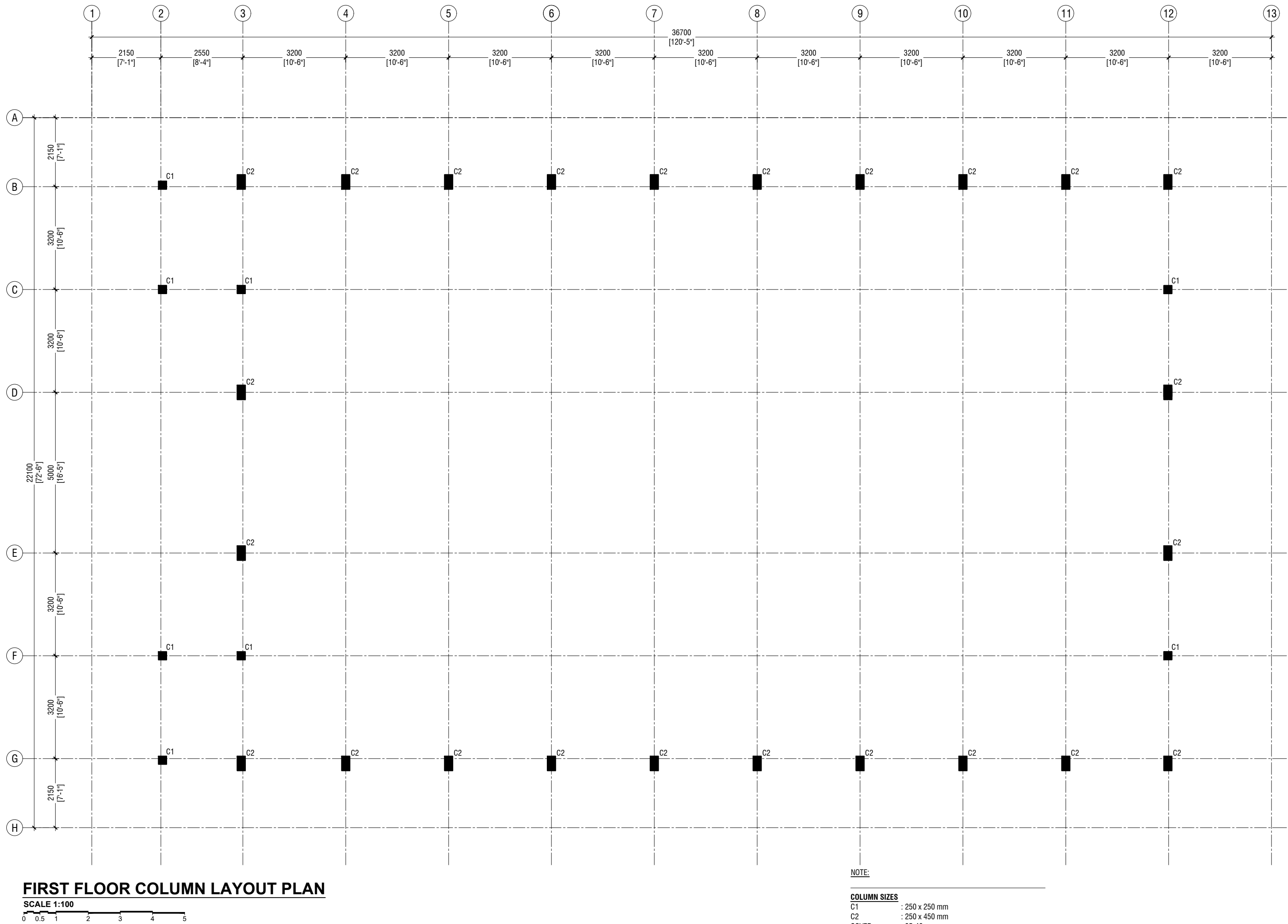
**RYAN PRIVATE LIMITED**

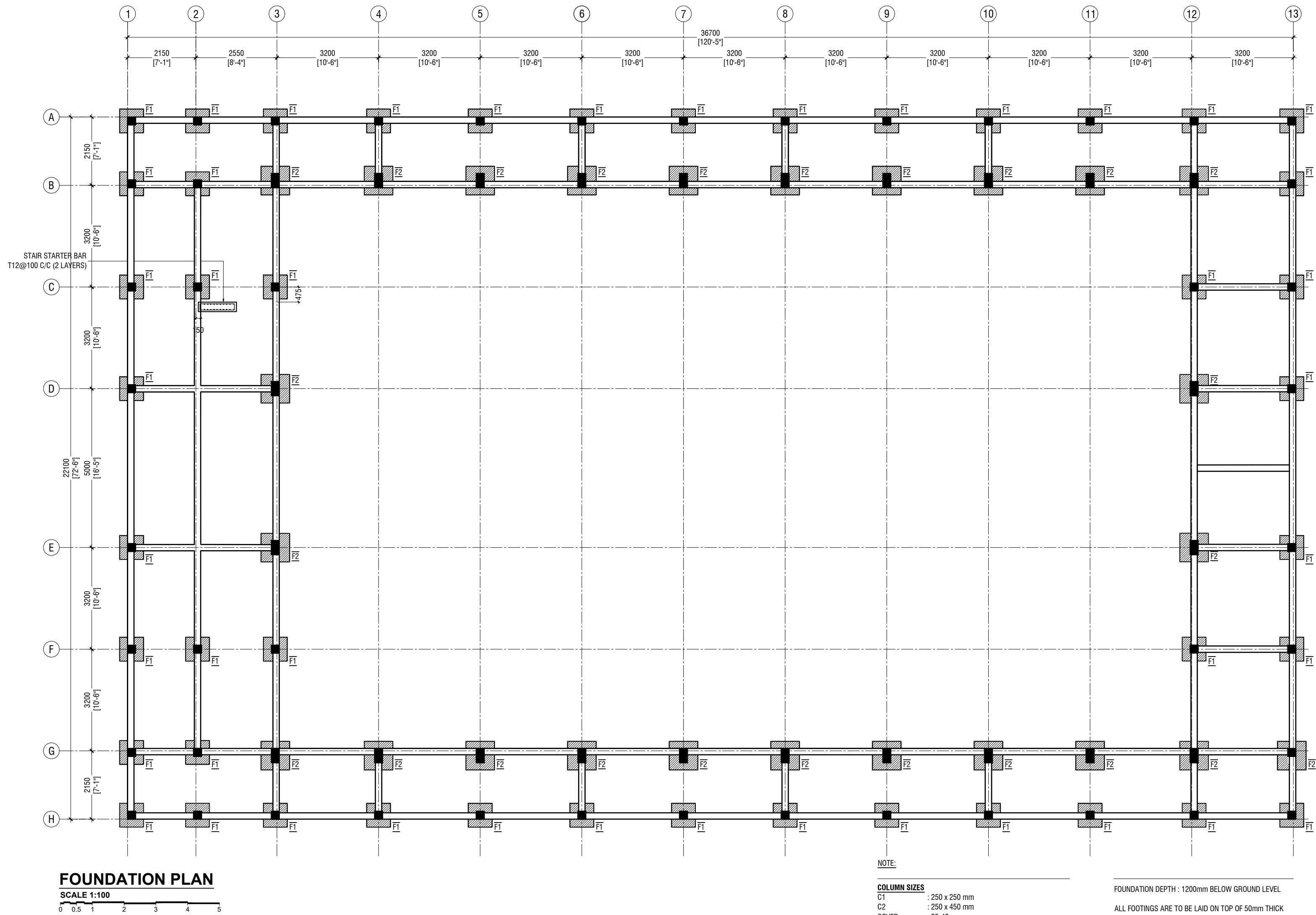
T: +960335049 F: +9603310776  
E: info@ryan.com.mv  
W: www.ryan.com.mv  
3rd Floor, H. Azum, Ameeremogga, Male

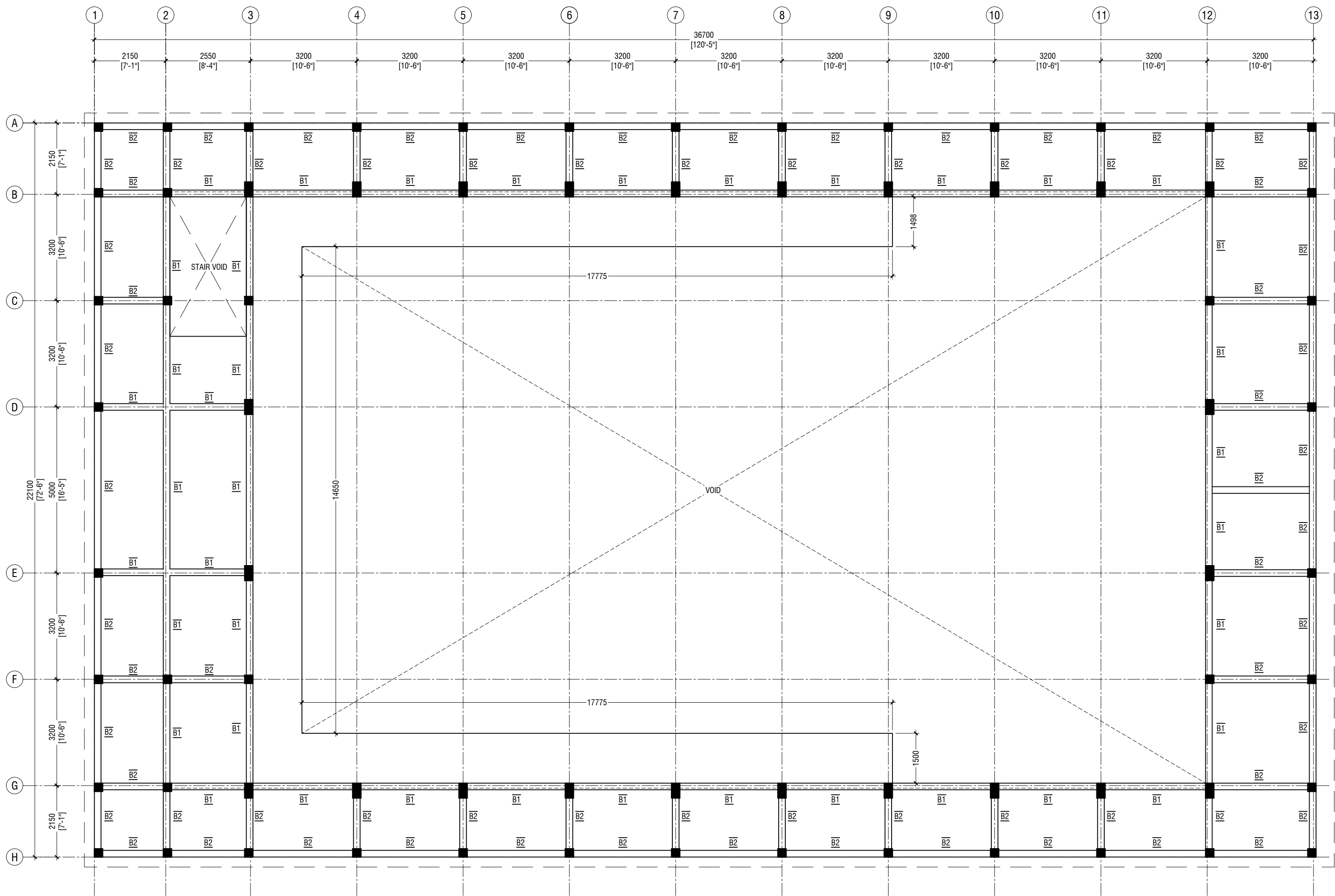
Title: Ground Floor Column  
Layout Plan

Page: S-01/11

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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. Ungoofaaru 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: Alifathi Ahmed  
Inspector: ..



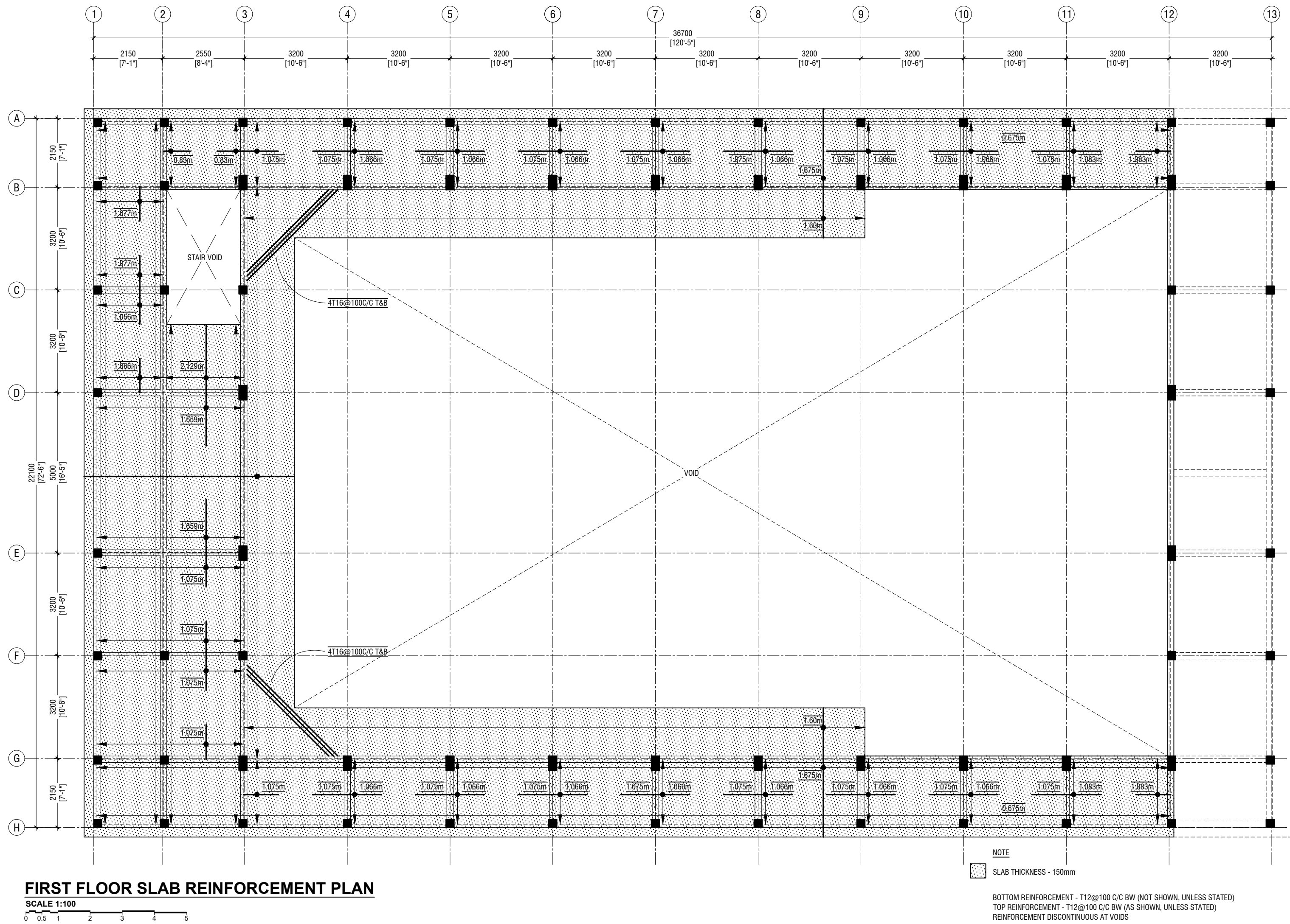
RYAN PRIVATE LIMITED

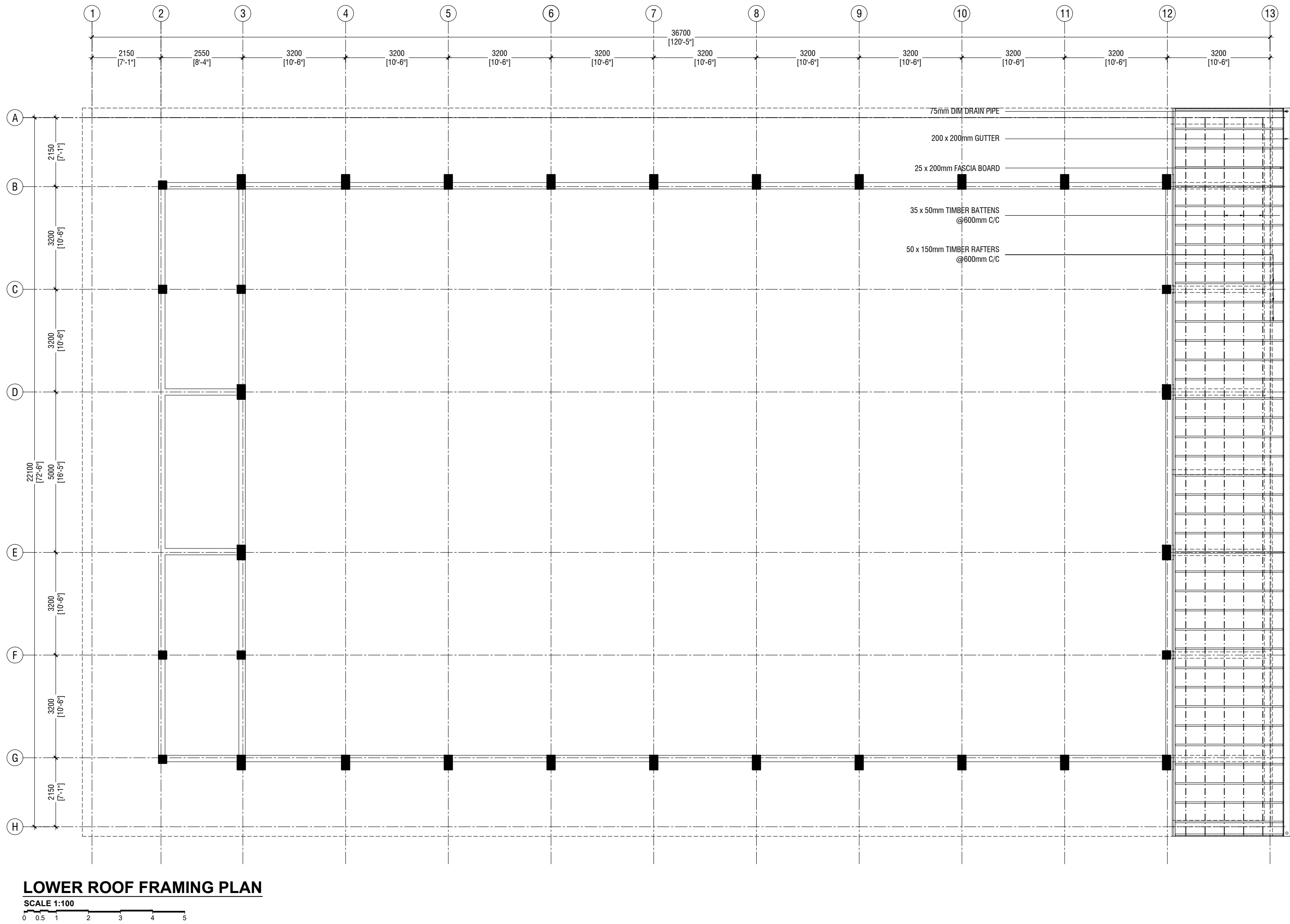
T: +960335049 F: +9603310776  
E: info@ryan.com.mv  
W: www.ryan.com.mv  
3rd Floor, H. Azumi, Ameeremogga, Male'

Title: 1st Floor Beam Plan

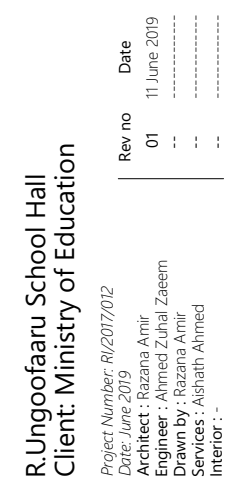
Page: S-04/11

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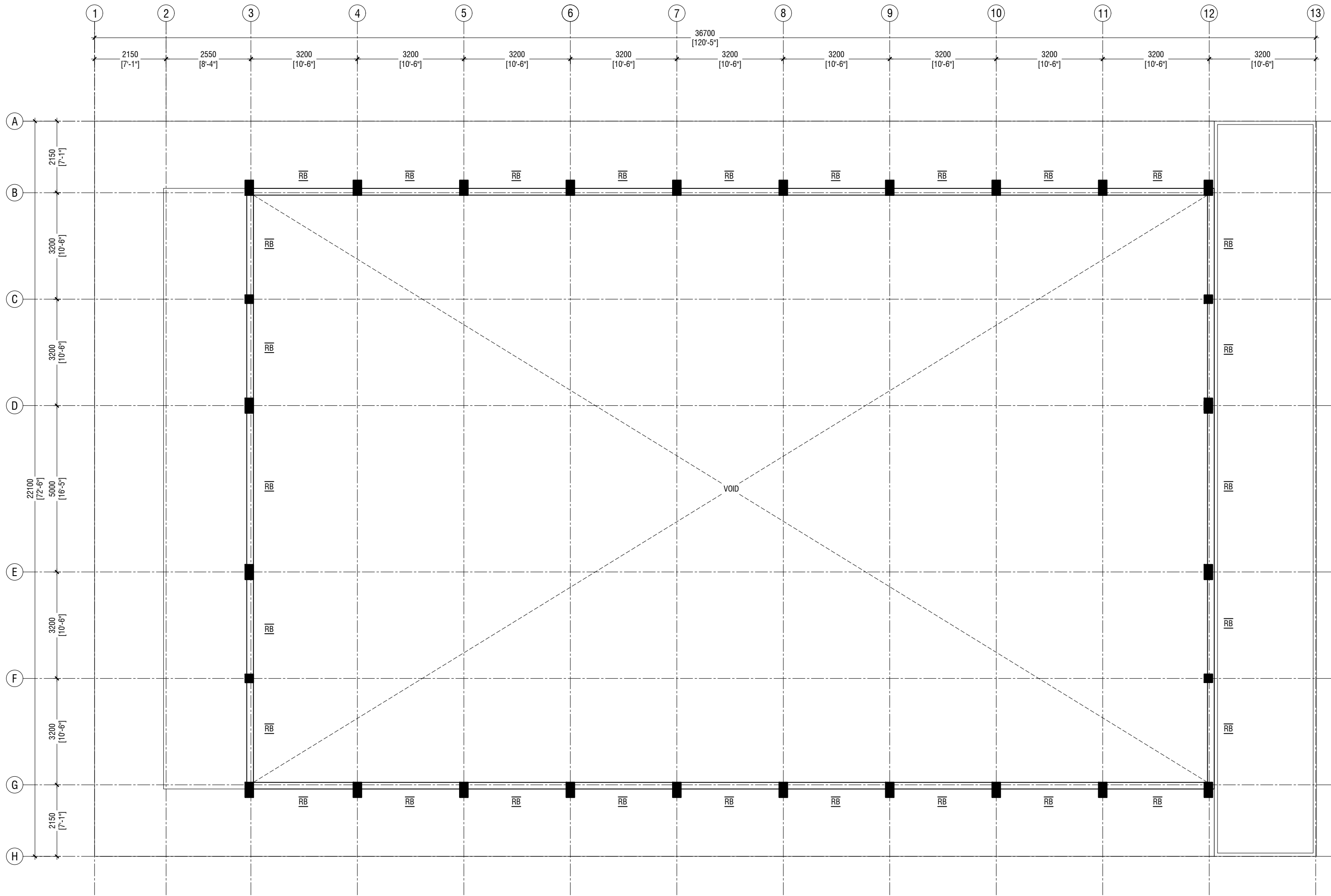












ROOF BEAM LEVEL - 2 PLAN (+8200)

SCALE 1:100  
0 0.5 1 2 3 4 5

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.Ungoofaar 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: Alifathi Ahmed  
Interior: .

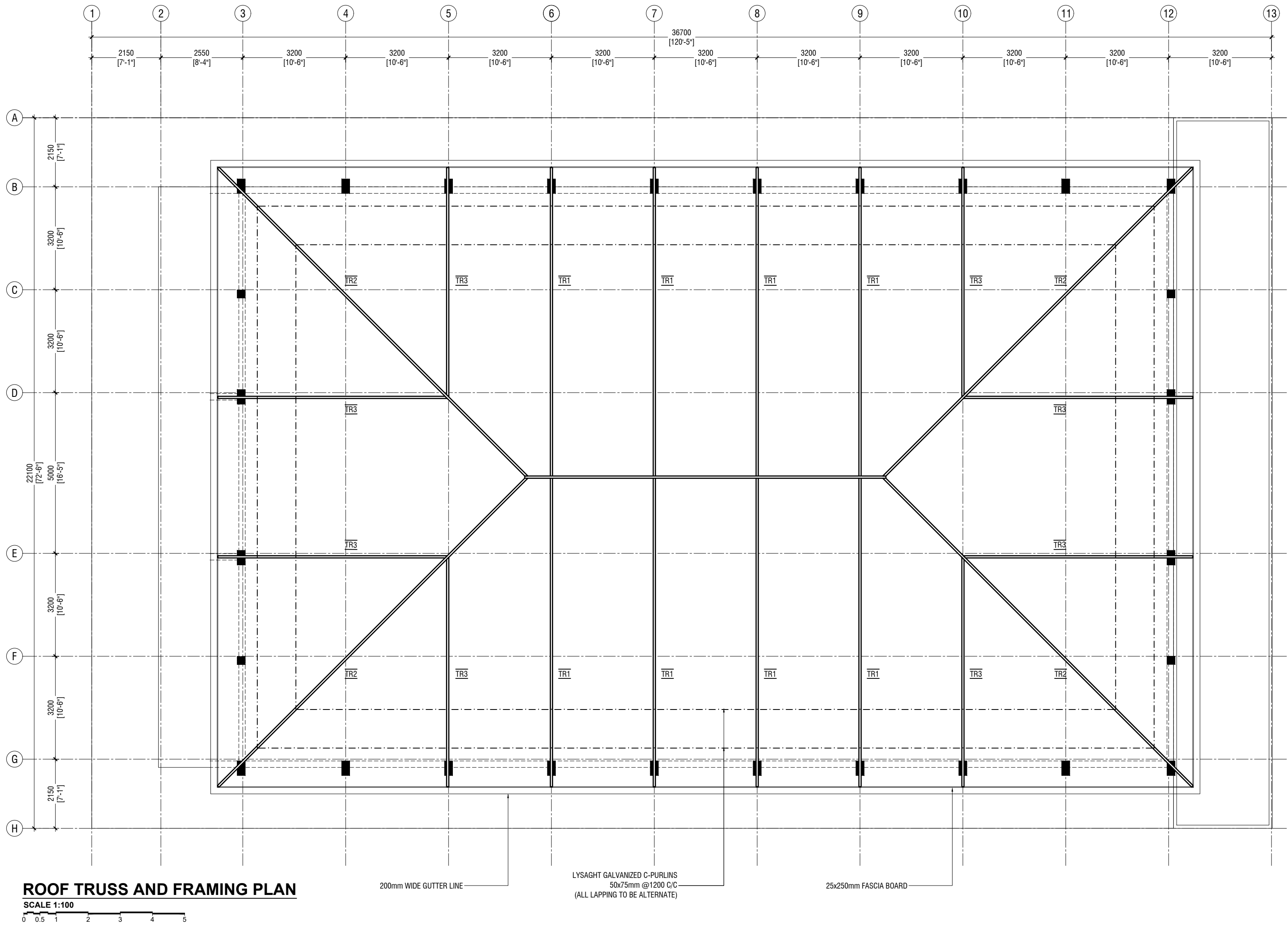


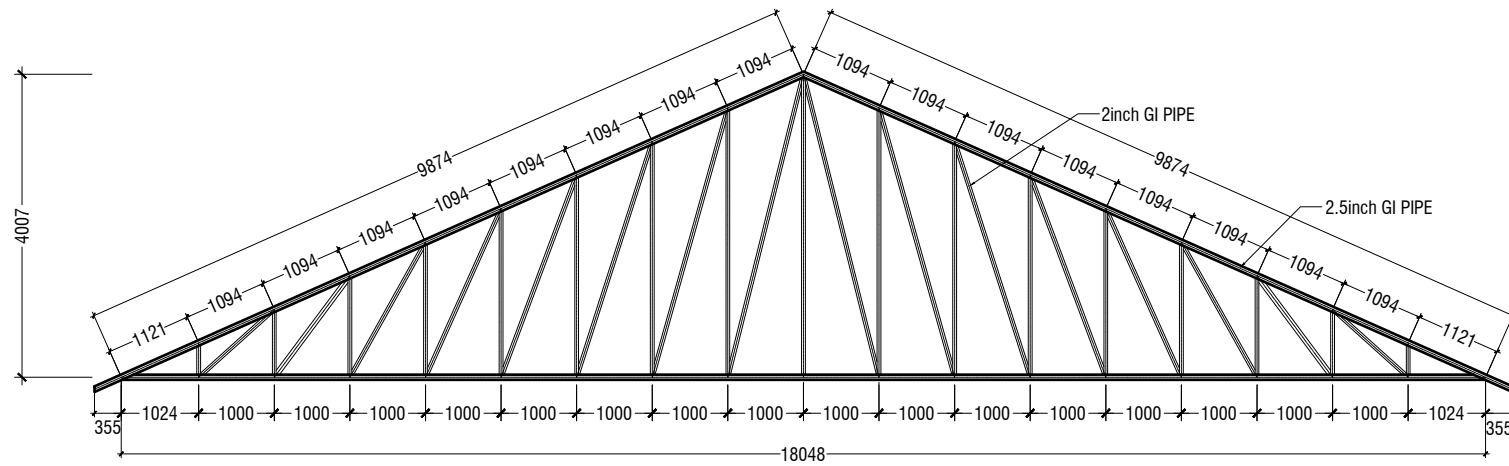
RYAN PRIVATE LIMITED  
t: +960335049 f: +9603310776  
e: info@ryan.com.mv  
w: www.ryan.com.mv  
3rd floor, H. Azumi, Ameeremogga, Male

Title: Roof Beam Level - 2 P  
Plan

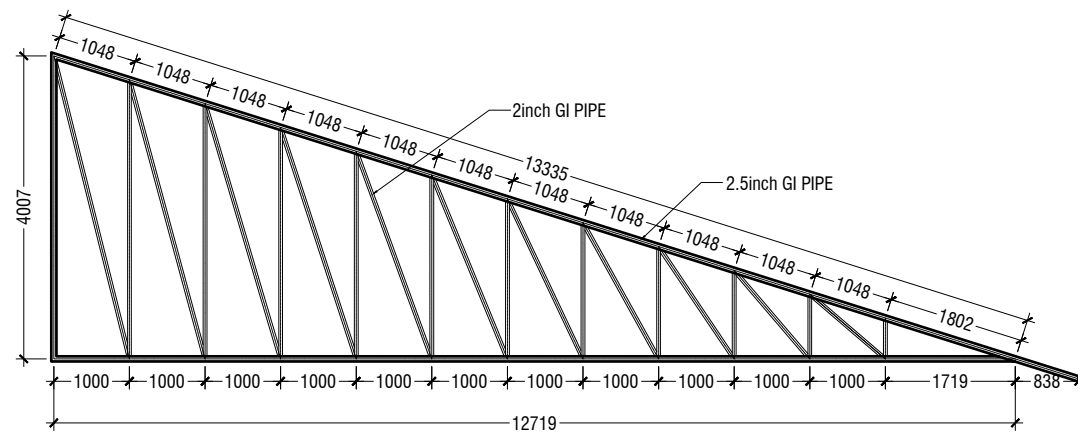
Page: S-08/11

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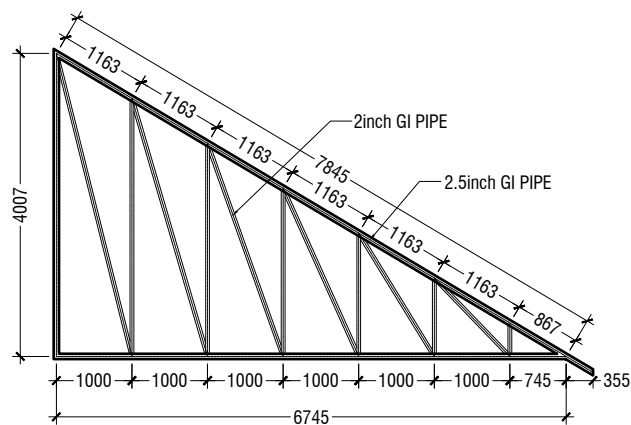




**TRUSS TYPE TR1**

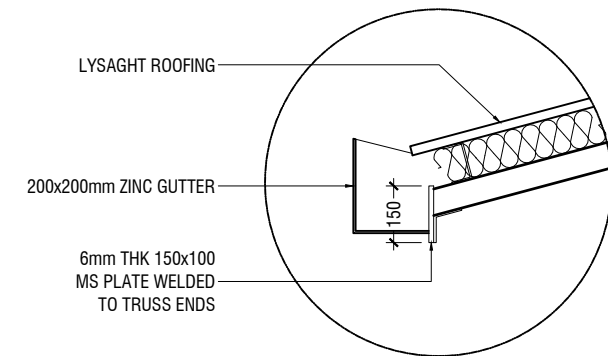
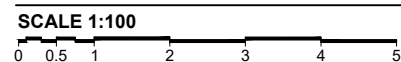


**TRUSS TYPE TR2**



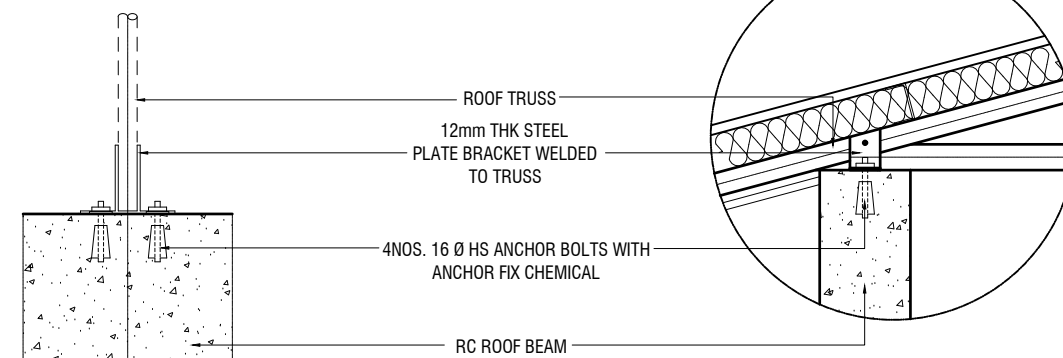
**TRUSS TYPE TR3**

**ROOF TRUSS DETAILS**



**GUTTER/FASCIA DETAIL**

SCALE 1:20



**ELEVATION**

SCALE 1:20

**SECTION**

SCALE 1:20

**TYPICAL TRUSS FIXING DETAILS**



R.Ungoofaar 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: Alshath Ahmed	
Interior: -	

Rev no

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

Title: Roof Truss Details

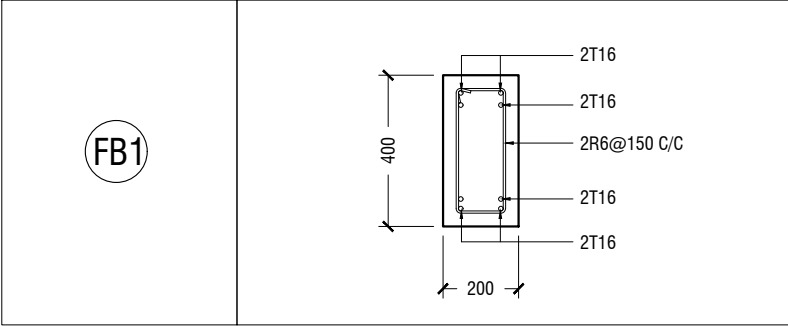
	DIMENSION	REINFORCEMENT
F1	750 x 750 x 250	T10@150 C/C B/W (B)
F2	900 x 900 x 300	T10@100 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

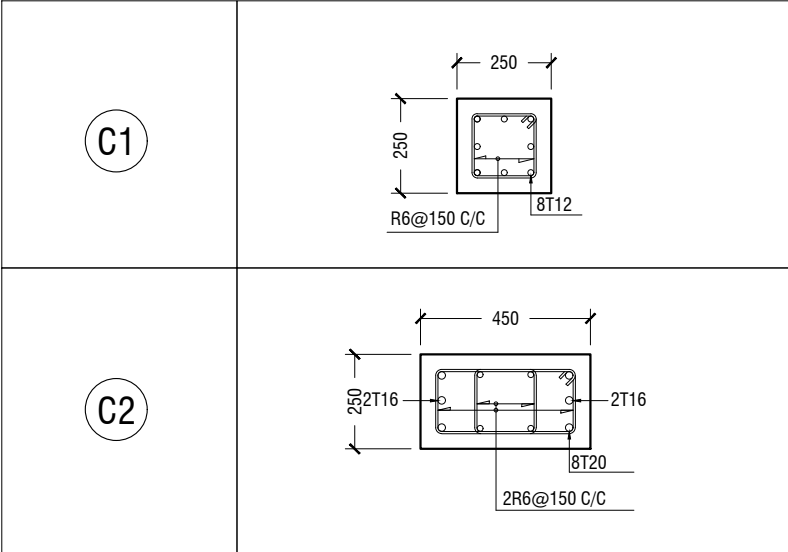
NOTE:-  
COVER TO FOUNDATION = 50mm  
COVER TO COLUMNS = 35-40mm  
COVER TO BEAMS = 35mm  
LAPS = Ø OF BAR x 45  
BEAMS @END SUPPORT = Ø OF BAR x 12

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

FOUNDATION PADS

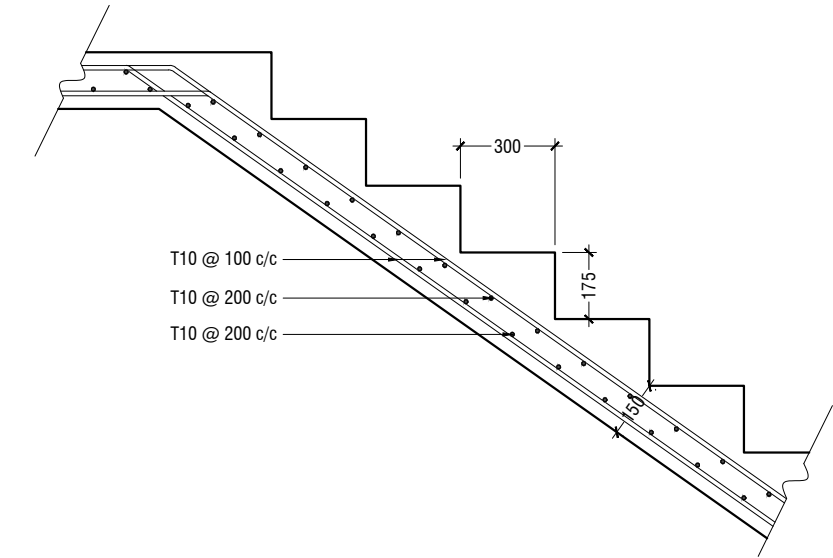


FOUNDATION DETAILS

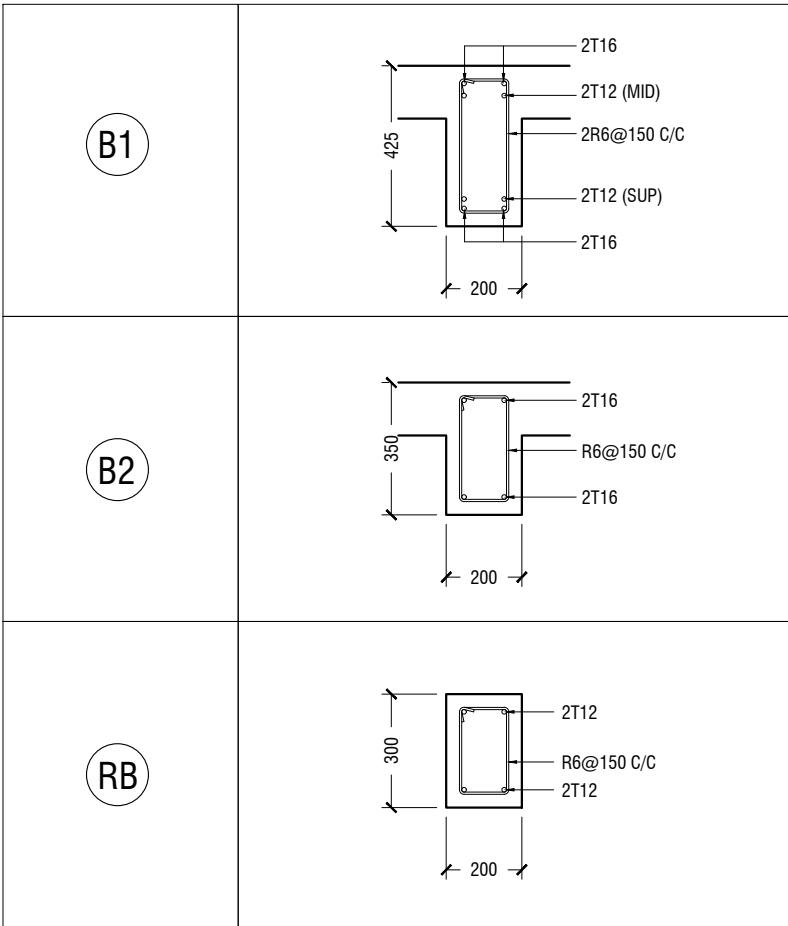


COLUMN DETAIL

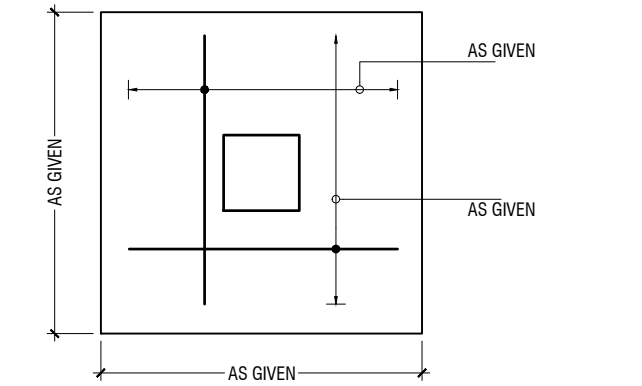
STRUCTURAL DETAILS



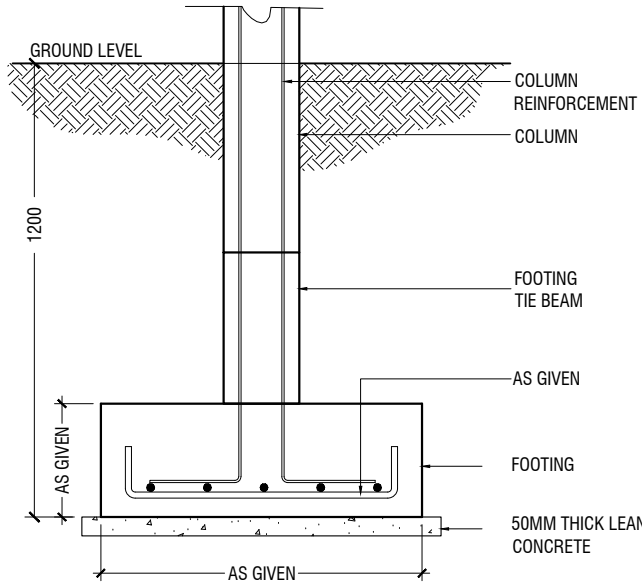
MAIN STAIRCASE REINFORCEMENT DETAIL



BEAM DETAIL



PLAN



SECTION

FOOTING DETAILS

R.Ungoofaar School Hall  
Client: Ministry of Education

Rev no	Date
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-	-
-	-

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

Title: Structural Details

Page: S-11/11

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