

Proposed Multipurpose Hall Building at  
AA.Thoddoo School

*ARCHITECTURAL & STRUCTURAL DRAWINGS*

Client: Ministry of Education

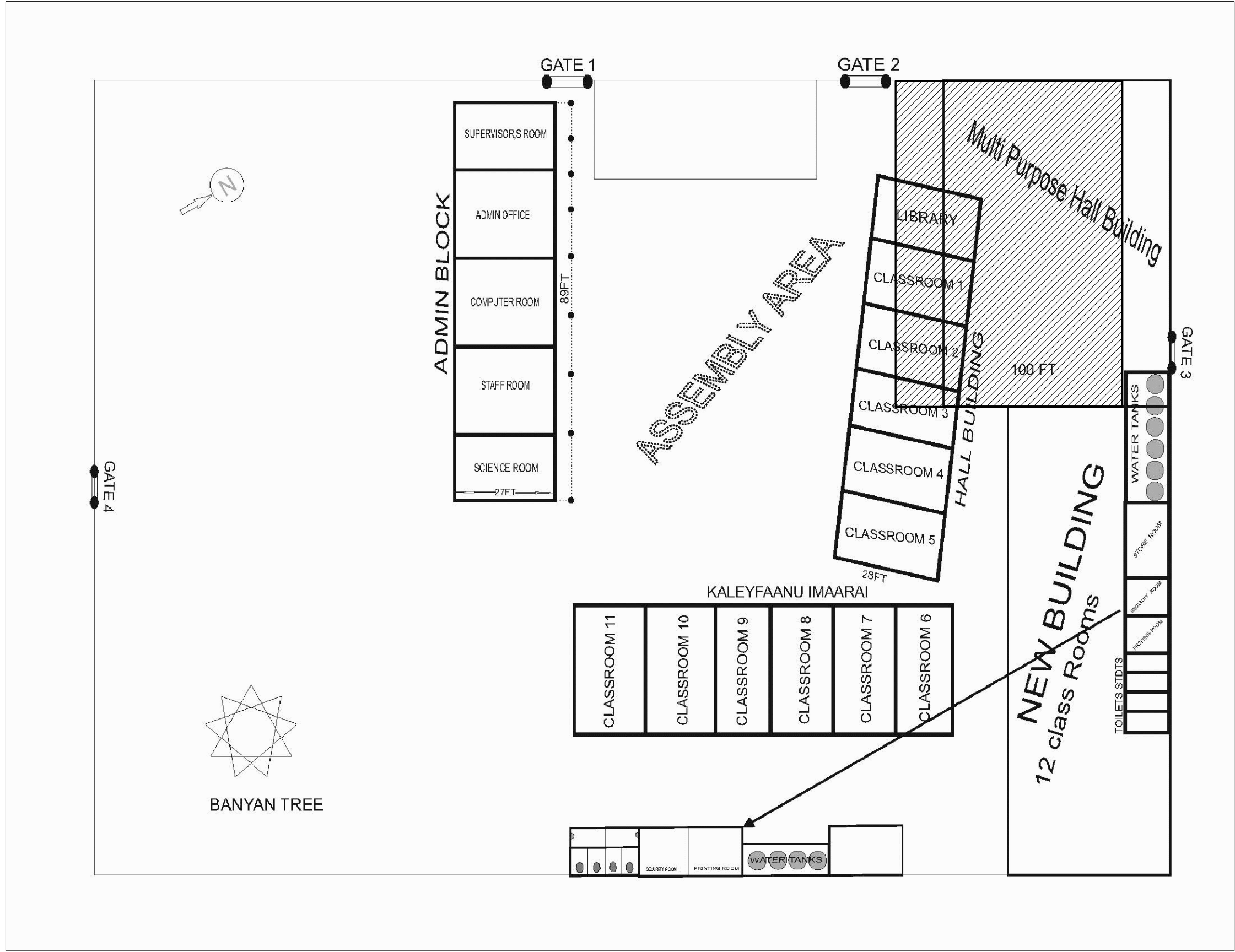


RIYAN PRIVATE LIMITED

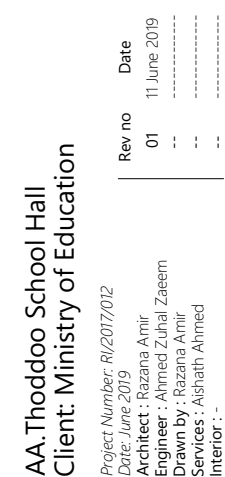
t : +9603315049 f : +9603310776  
e : info@riyan.com.mv  
w : www.riyan.com.mv  
3rd floor, H. Azum, Ammeenemagu, Male'

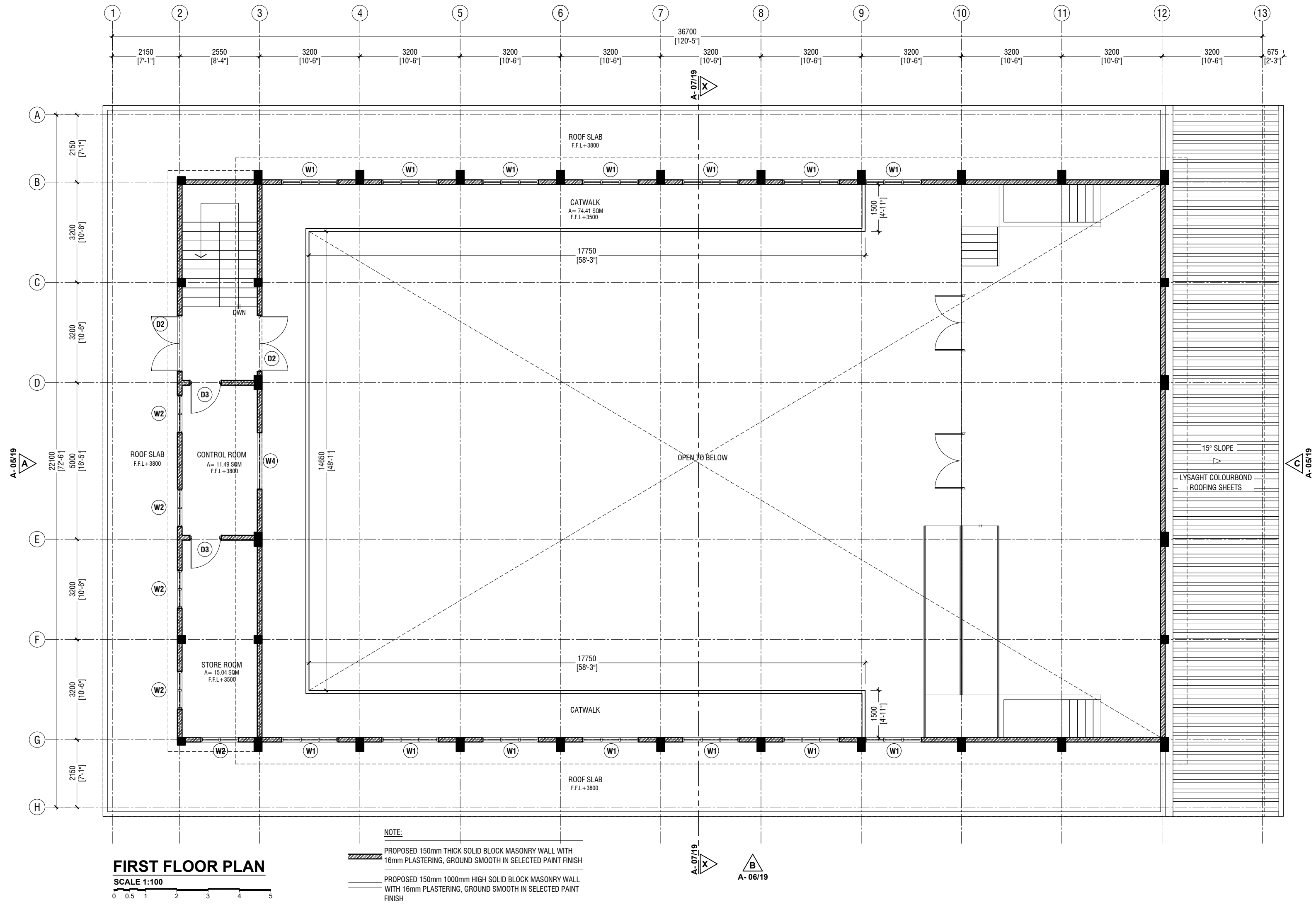
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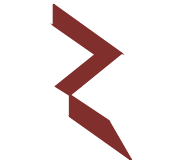
**SITE PLAN**





AA Thoddoo School Hall  
Client: Ministry of Education

Rev no	Date
01	11 June 2019
02	11 June 2019
03	11 June 2019
04	11 June 2019
05	11 June 2019
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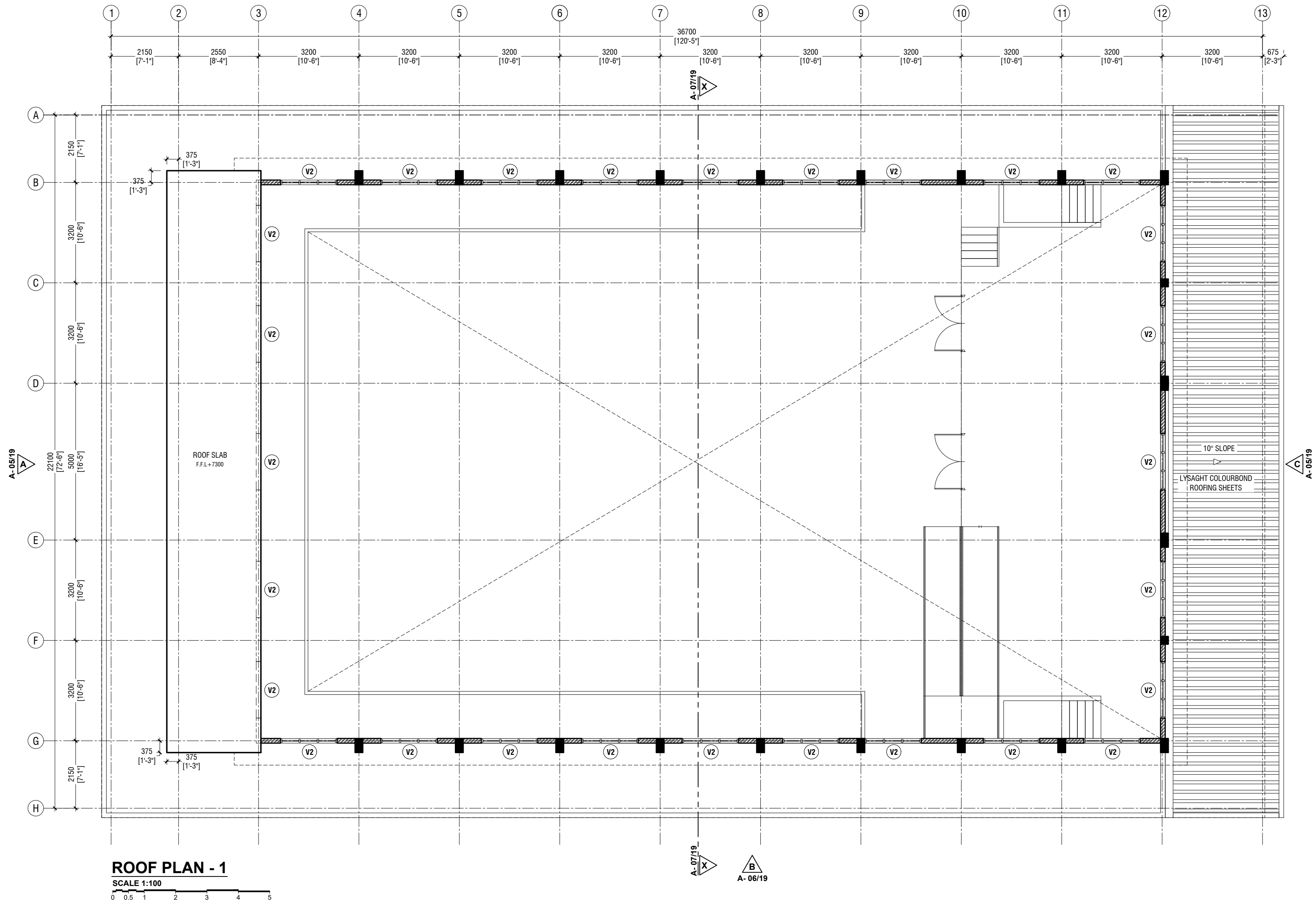


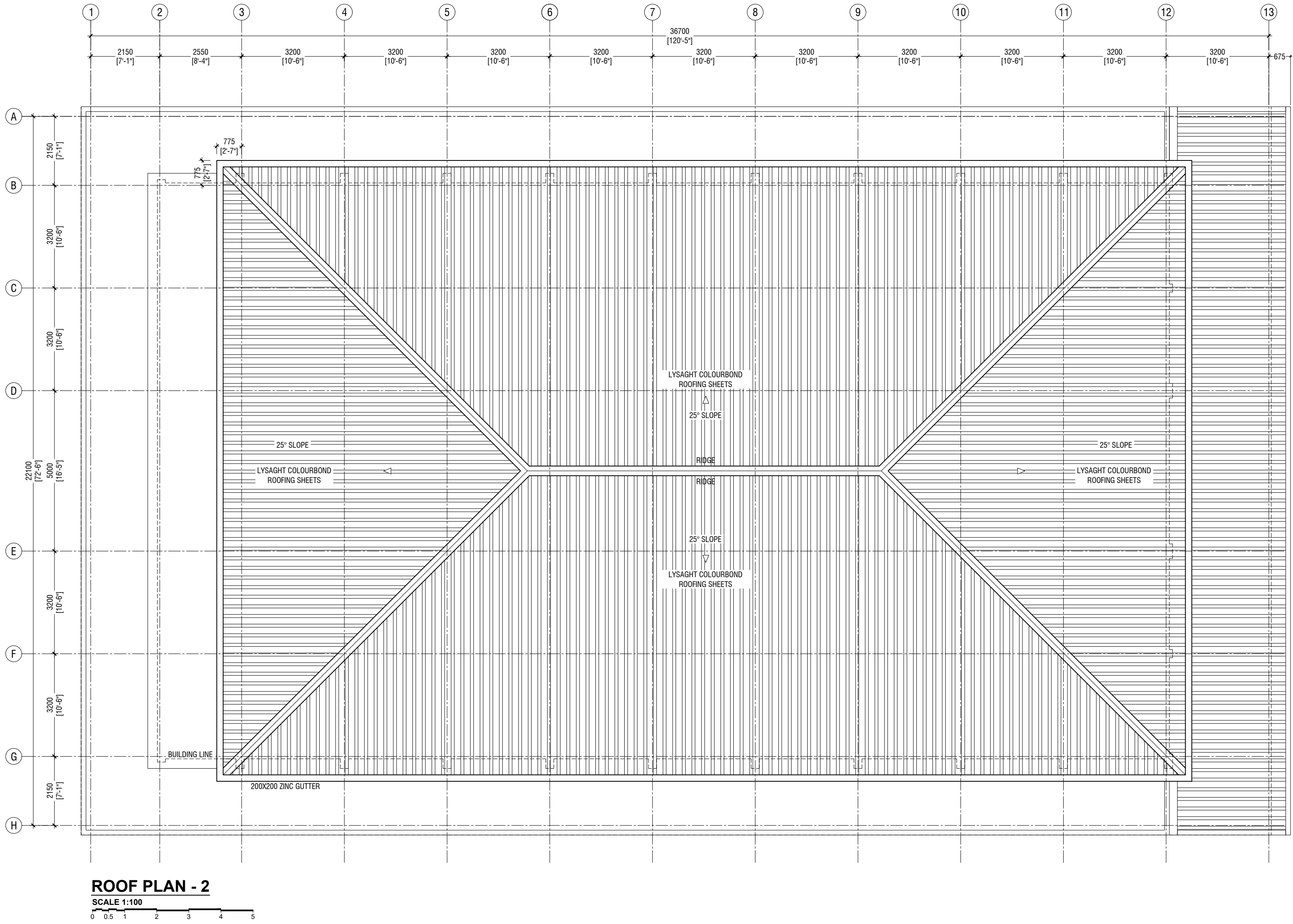
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w: www.ryan.com.mv  
3rd Floor, H. Azum, Ameeremogga, Male'

Title: First Floor Plan

Page: A-02/19

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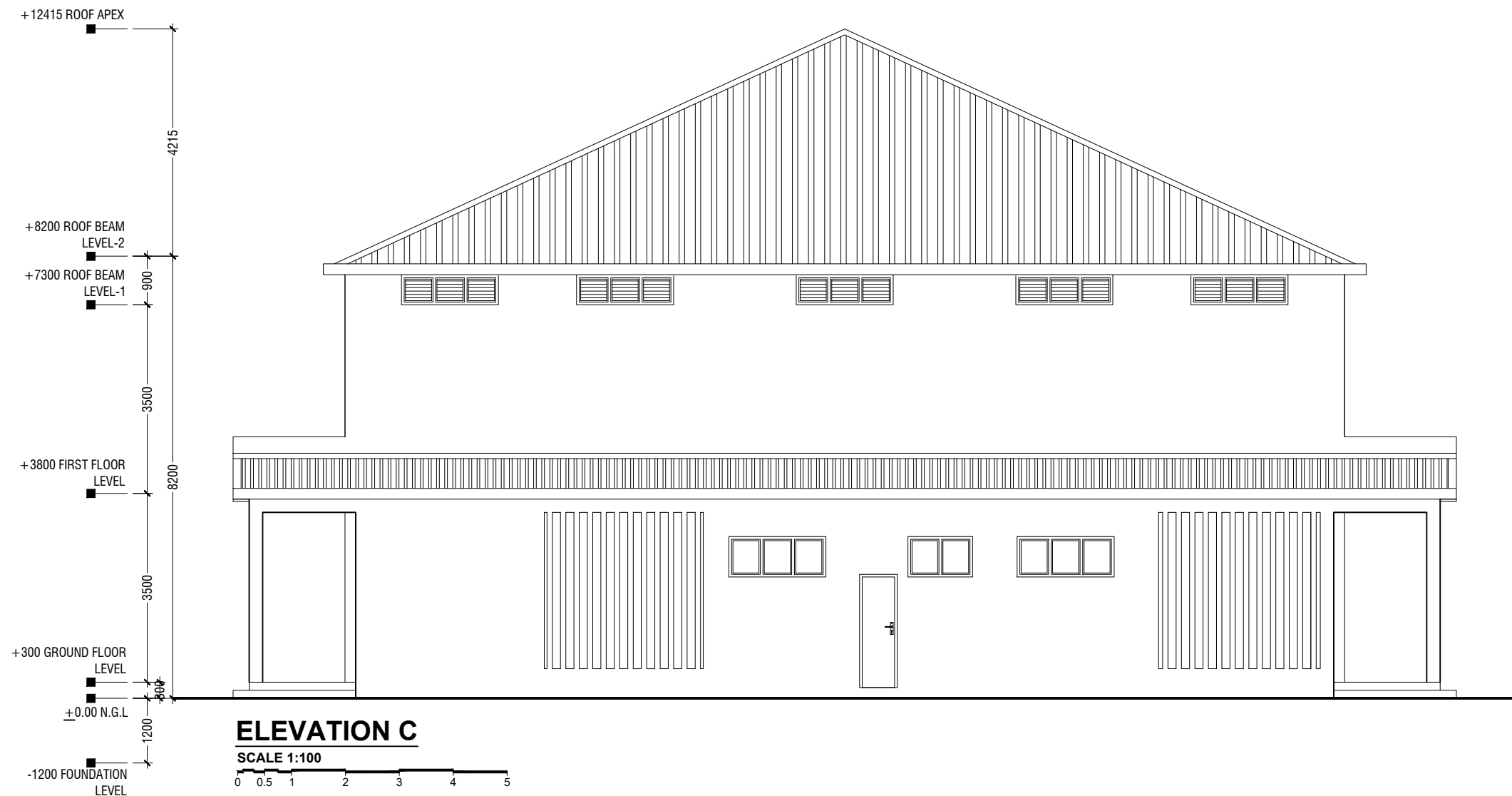
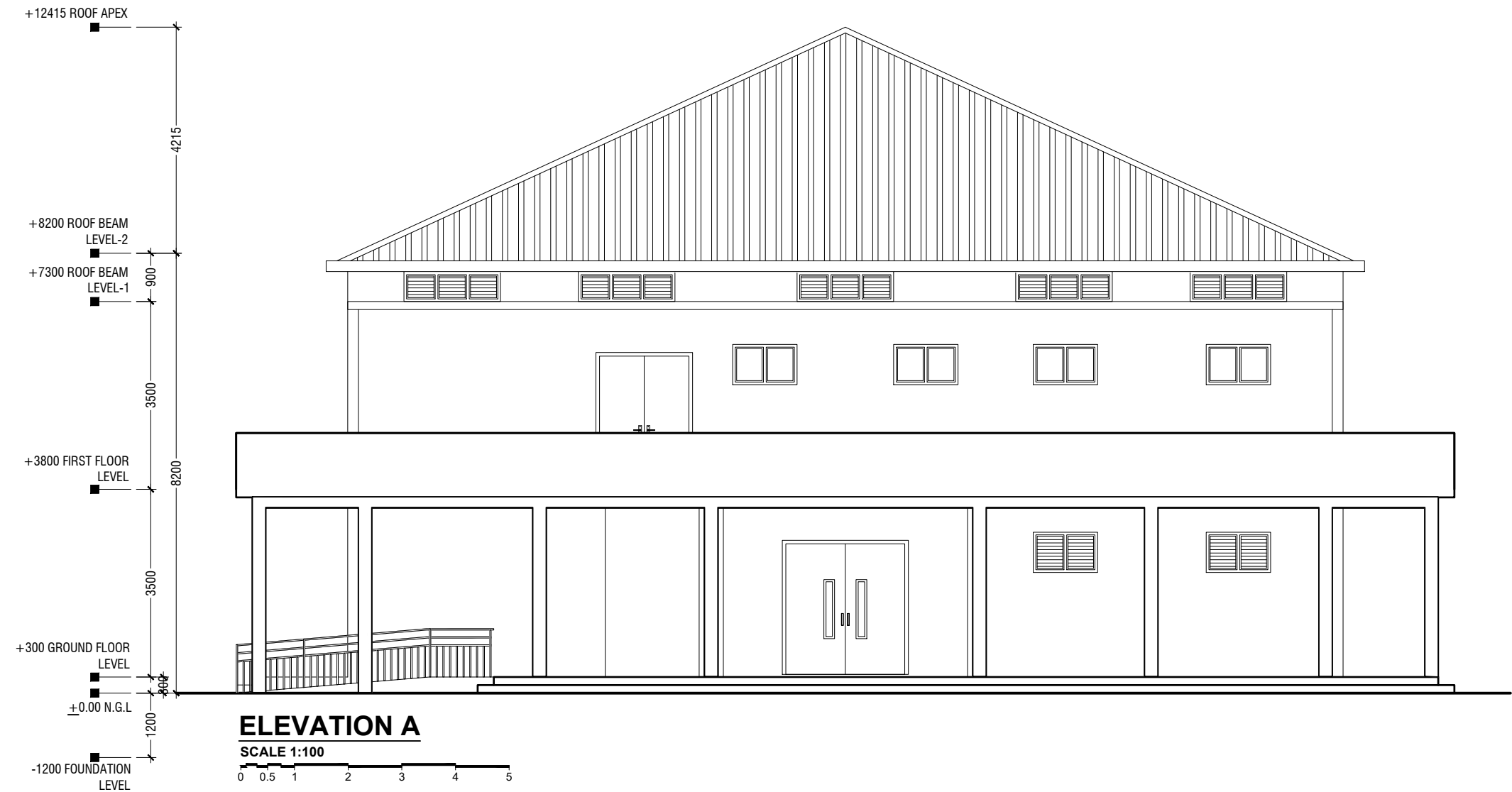




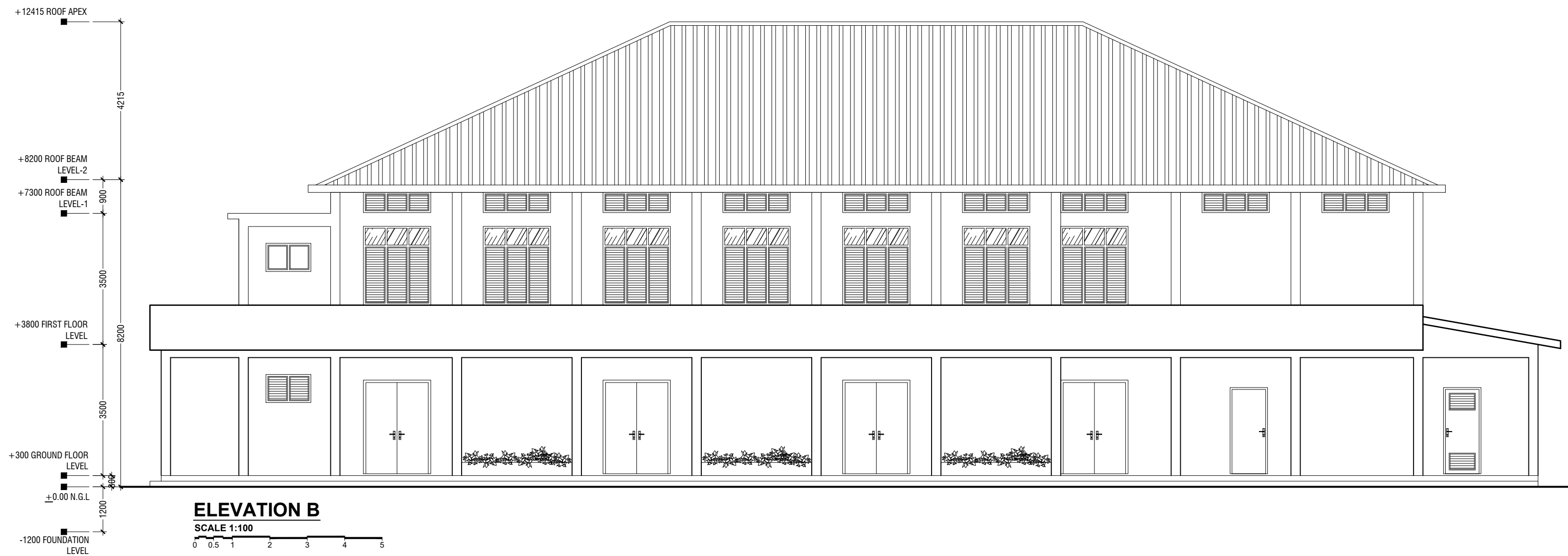
ROOF PLAN - 2

SCALE 1:100









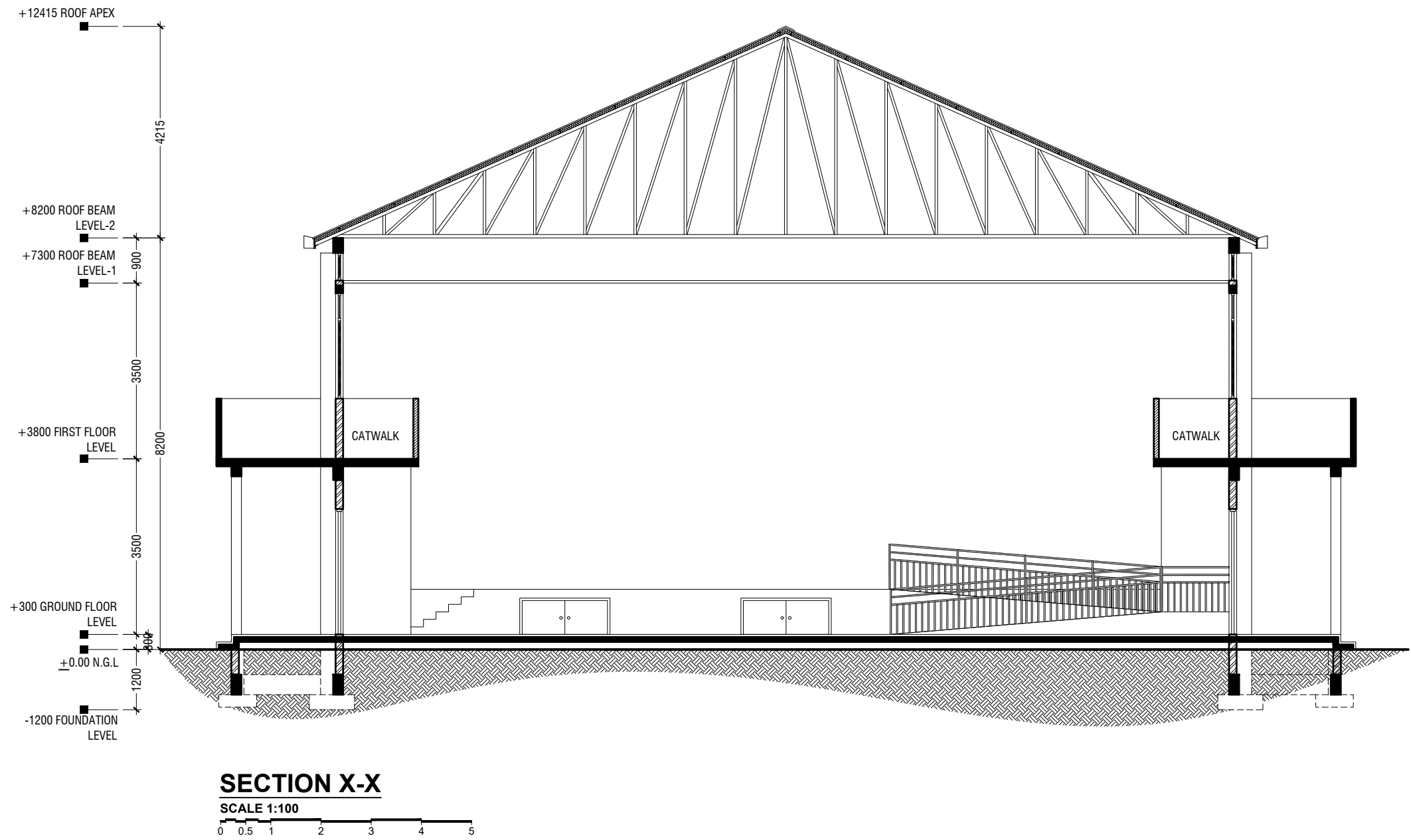
AA.Thoddoo School Hall  
Client: Ministry of Education

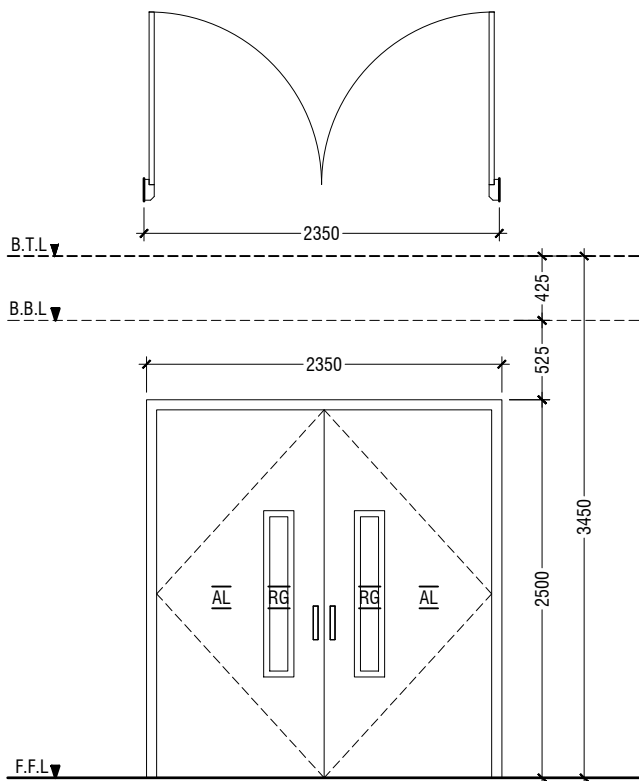
Project Number	Rev no	Date
RI/2017/012	01	11 June 2019
Architect : Razana Amir	--	-----
Engineer : Ahmed Z.Jalal Zaeem	--	-----
Drawn by : Razana Amir	--	-----
Services : Alifathi Ahmed	--	-----
Director :	--	-----

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

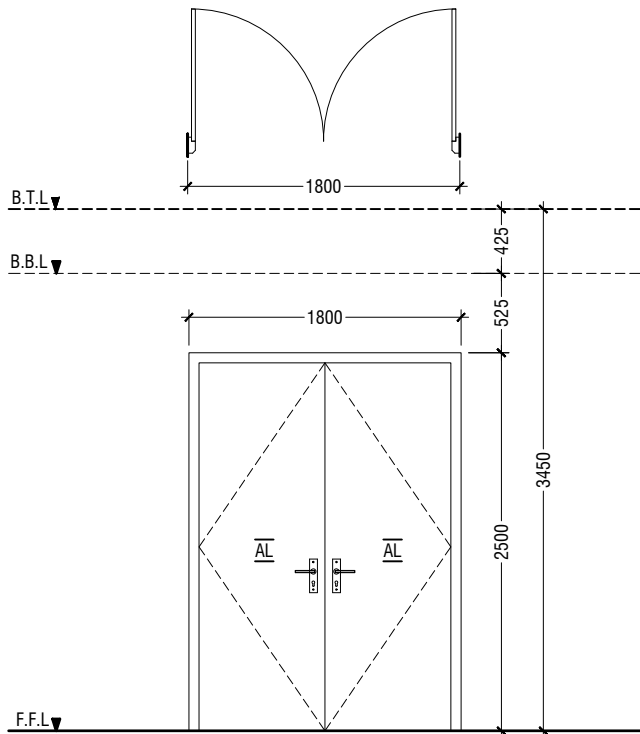
Title: Elevation B  
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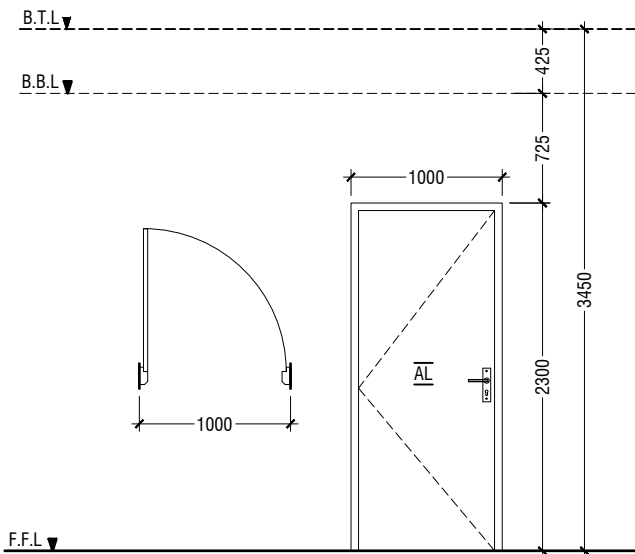




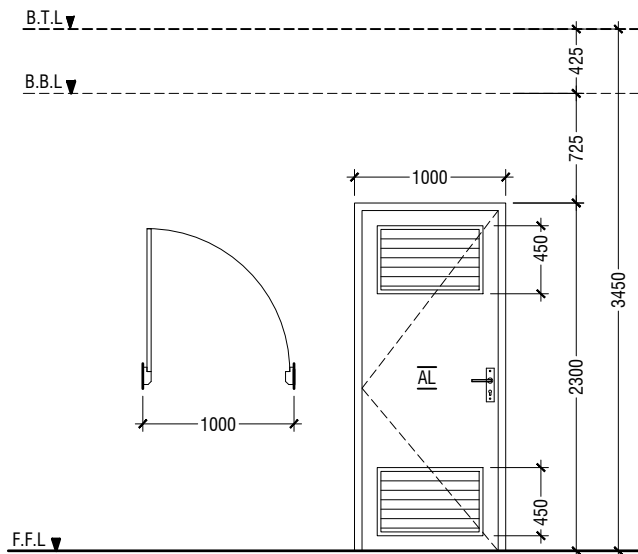
D1	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL GLASS ON PANEL : 6mm THK REFLECTIVE GLASS
LOCATION	HALL MAIN ENTRANCE
QUANTITY	01 NOS
OPEN AREA	5.39 sqm



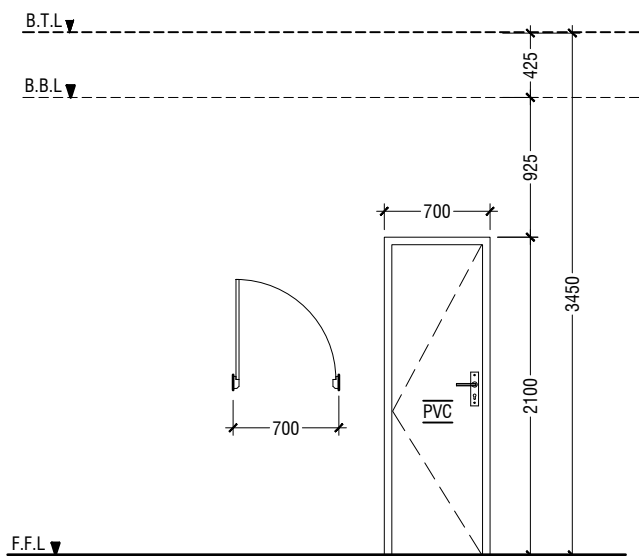
D2	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	HALL ENTRANCE
QUANTITY	10 NOS
OPEN AREA	4.05 sqm



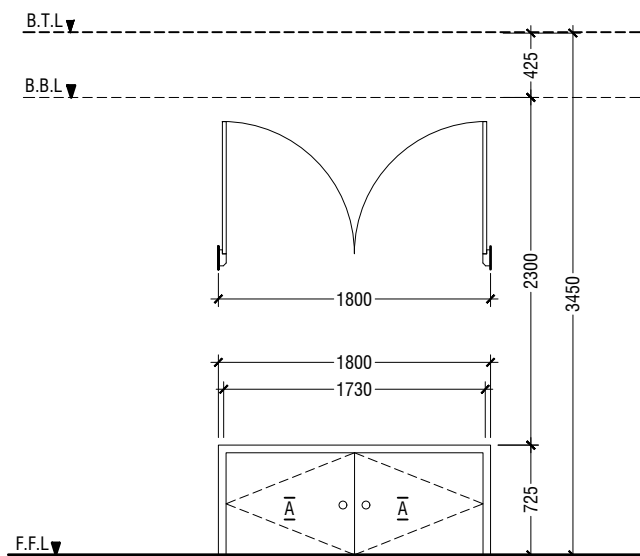
D3	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	STAGE, CONTROL ROOM & STORE ROOM
QUANTITY	05 NOS
OPEN AREA	2.03 sqm



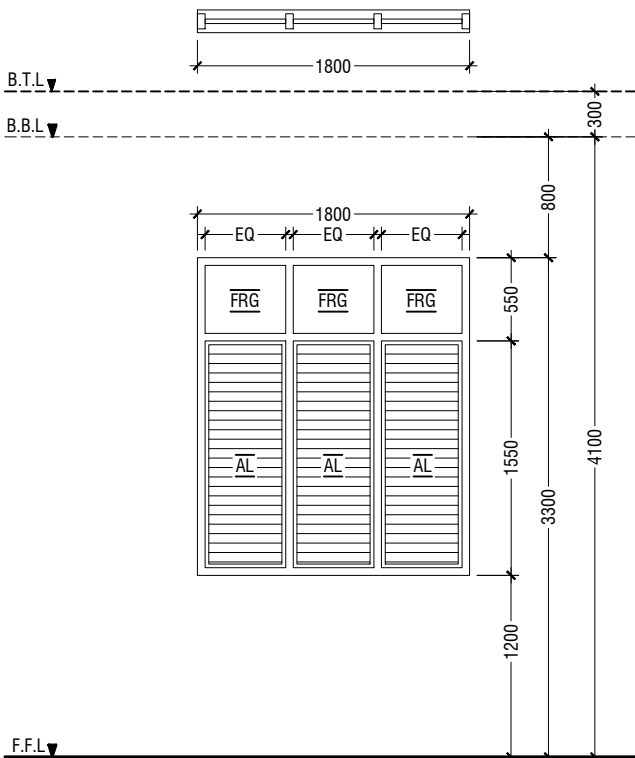
D4	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS
LOCATION	DISABLED TOILET
QUANTITY	01 NOS
OPEN AREA	2.03 sqm



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



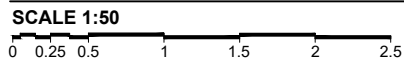
W1	WINDOW WITH FIXED GLASS & ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS AND 6mm THICK REFLECTED FIXED GLASS PANELS
LOCATION	HALL
QUANTITY	14 NOS
OPEN AREA	2.40 sqm

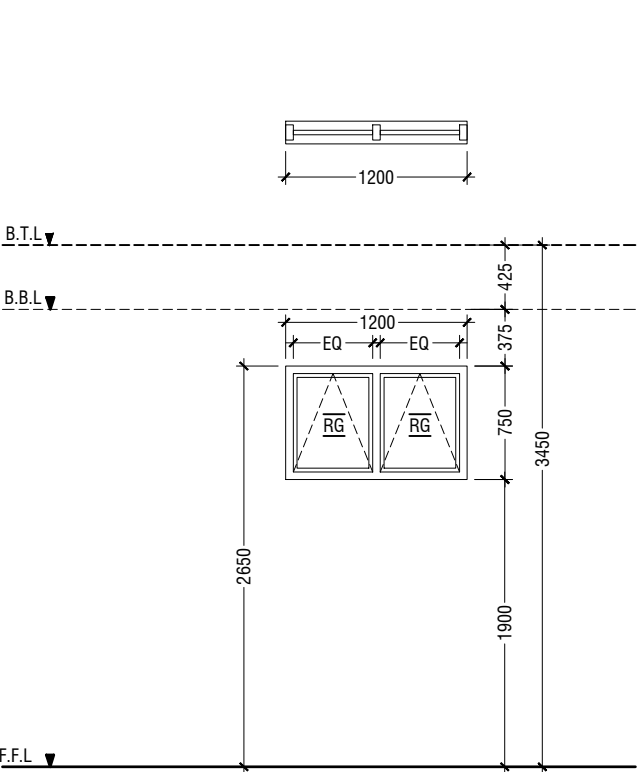
**LEGEND:**  
FCG - FIXED CLEAR GLASS  
FRG - FIXED REFLECTED GLASS  
RG - REFLECTED GLASS  
AL - ALUMINIUM  
PVC - POLYVINYL CHLORIDE

NOTE:-

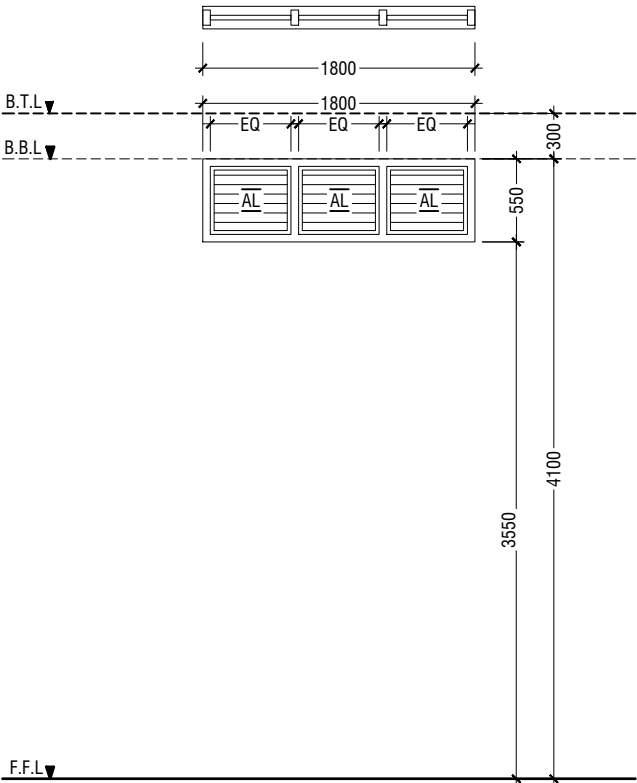
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW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

## DOOR / WINDOW SCHEDULE - 1

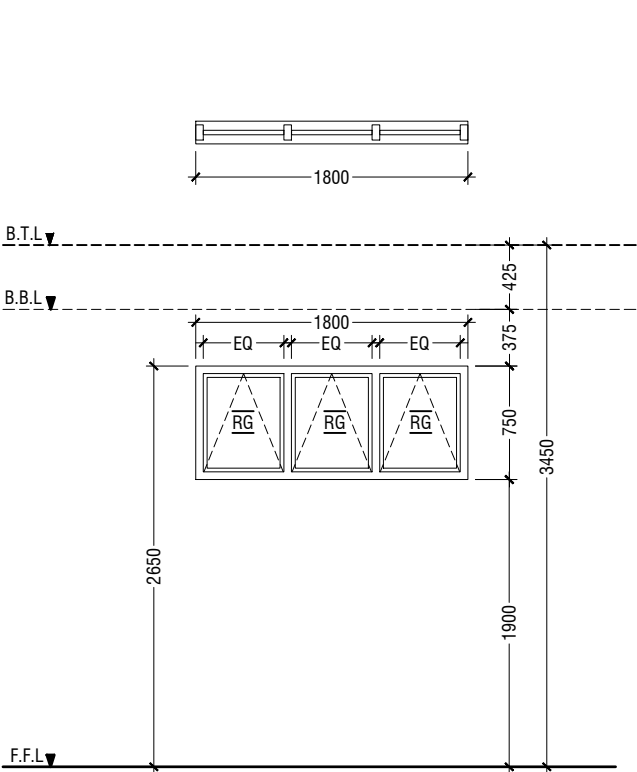




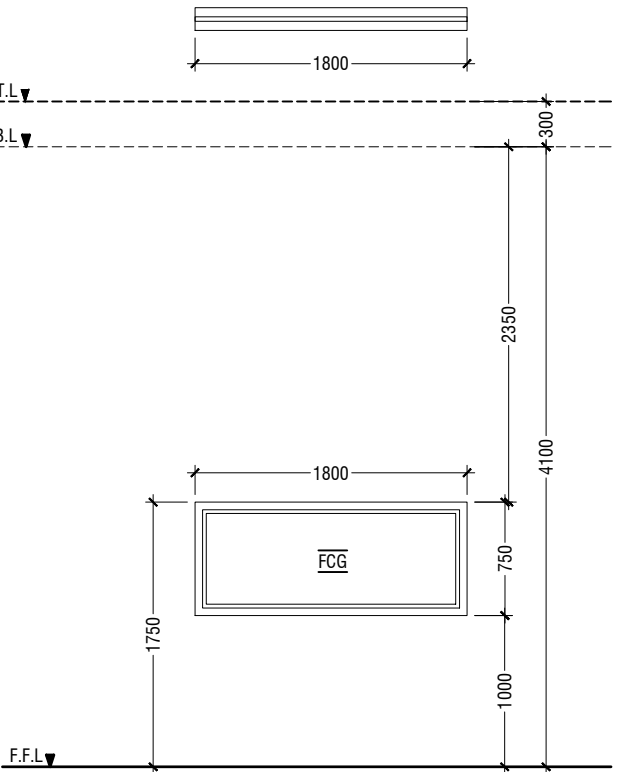
W2	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	STORE ROOM
QUANTITY	06 NOS
OPEN AREA	0.68 sqm



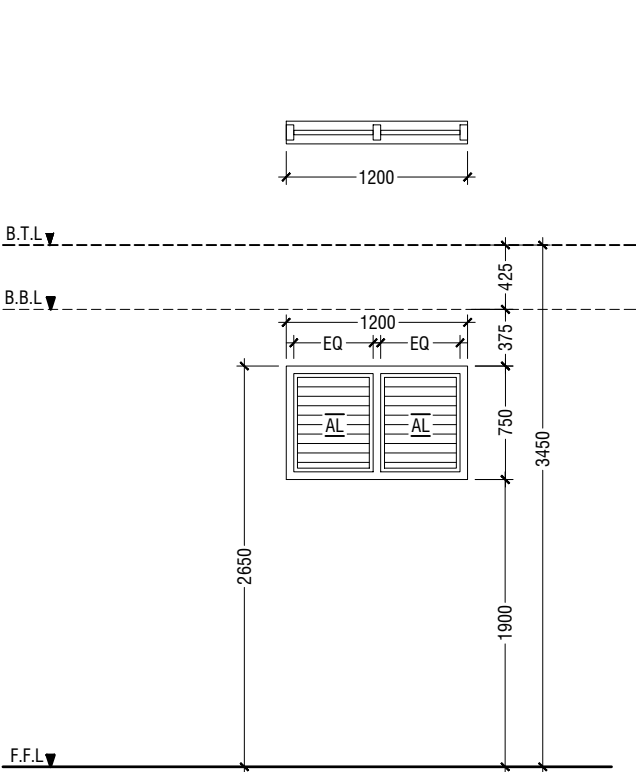
V2	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ABOVE HALL CEILING
QUANTITY	28 NOS
OPEN AREA	0.72 sqm



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 AA.THODDOO 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%

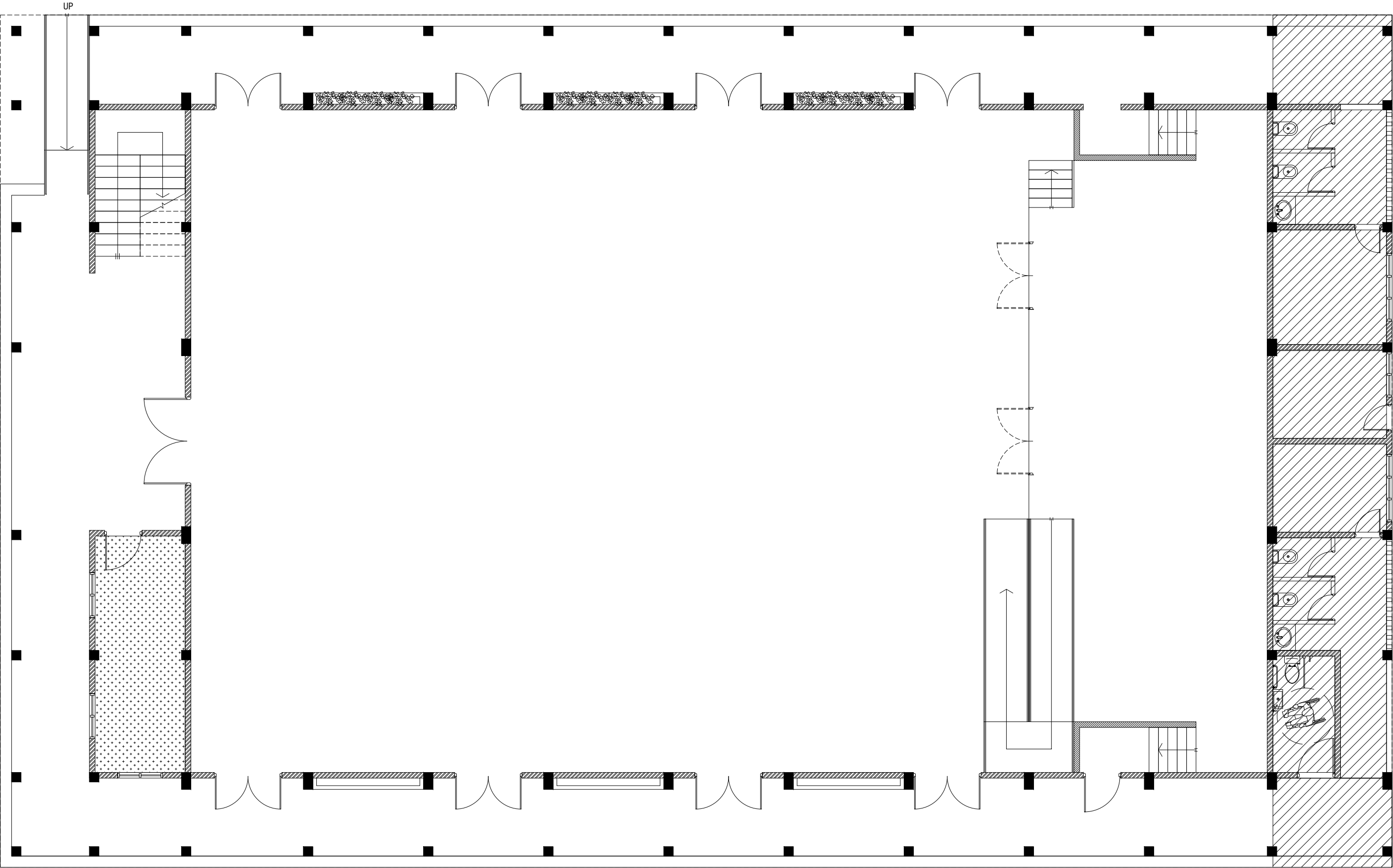
### VENTILATION SCHEDULE

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

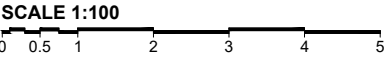
NOTE:-  
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.  
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.  
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.  
- FOR ALL THE WINDOWS PUT A SILL BEAM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

### DOOR / WINDOW SCHEDULE - 2





**GROUND FLOOR  
REFLECTED CEILING PLAN**



**LEGEND**

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

AA.Thoddoo 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: -	--	----



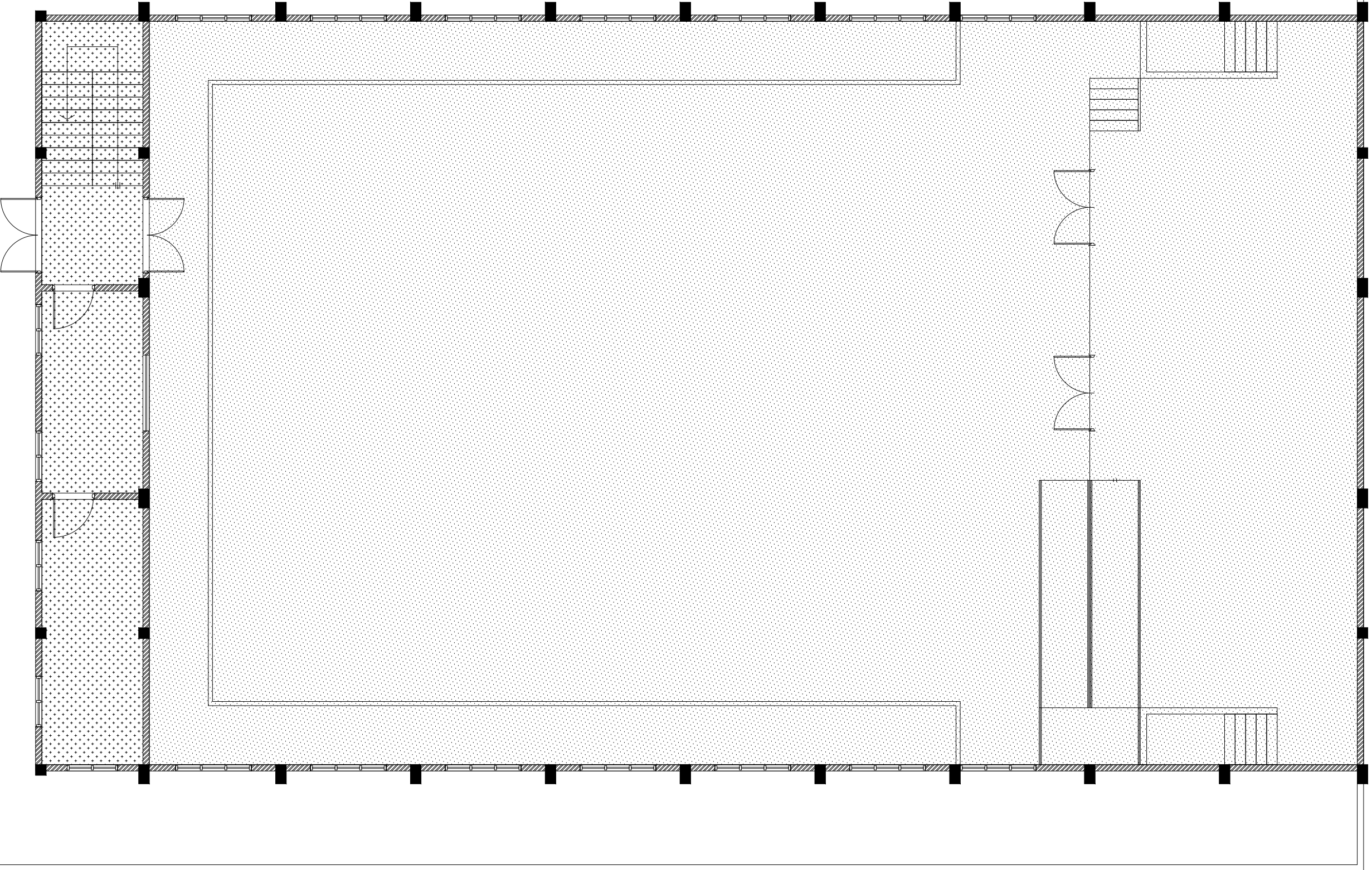
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3rd floor, H. Azum, Ameerneemagu, Male'

Title: Door / Window  
Schedule - 2

Page: A-10/19



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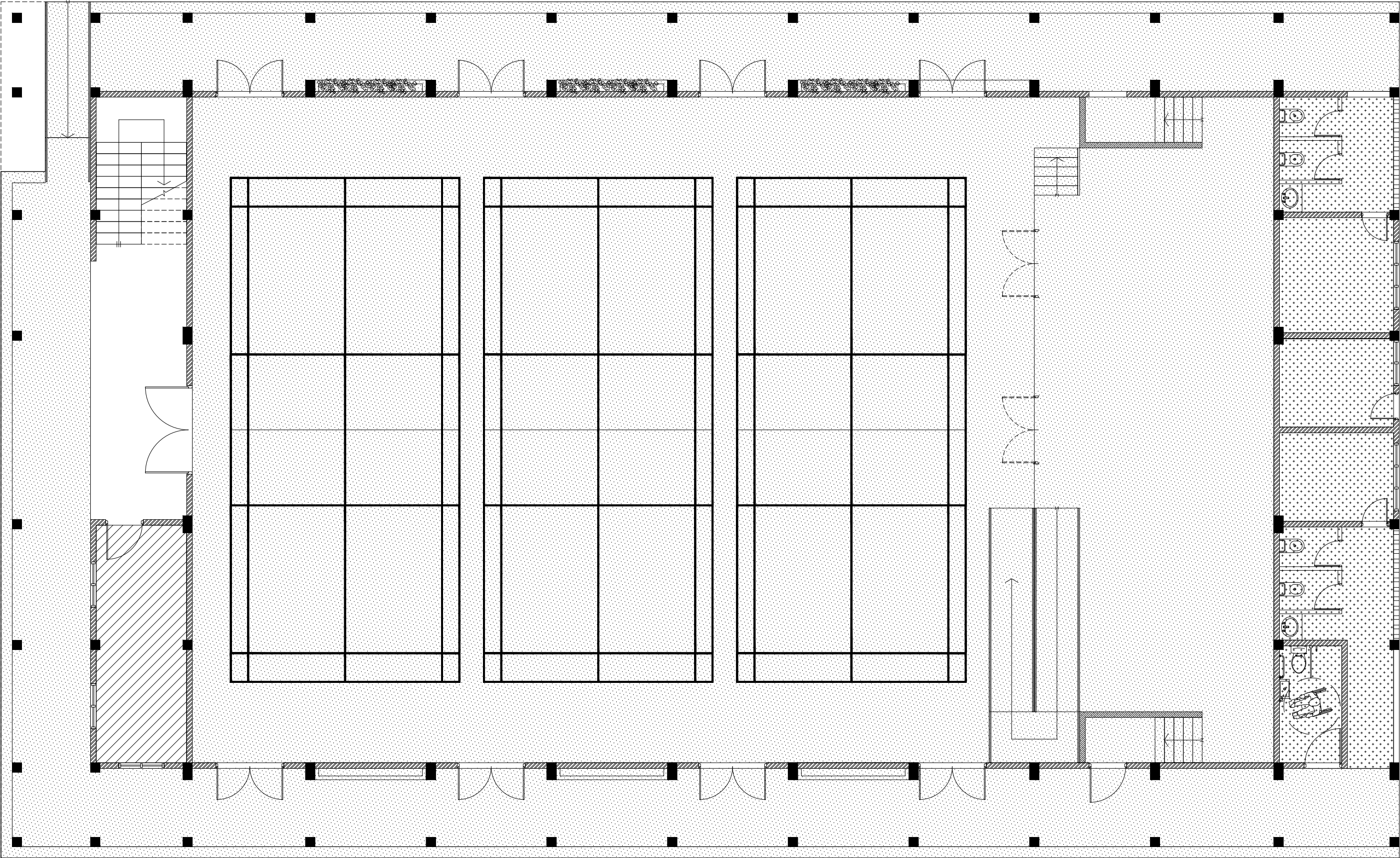
**FIRST FLOOR  
REFLECTED CEILING PLAN**

SCALE 1:100

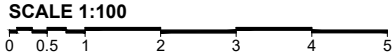
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LEGEND	
CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE FINISHED WITH GROUND SMOOTH FINISH IN SELECTED PAINT
	SUSPENDED ACOUSTIC CEILING SYSTEM WITH ALUMINUM FRAMING CEILING HEIGHT : +7300mm





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

AA.Thoddoo 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: -	--	-----



RIYAN PRIVATE LIMITED

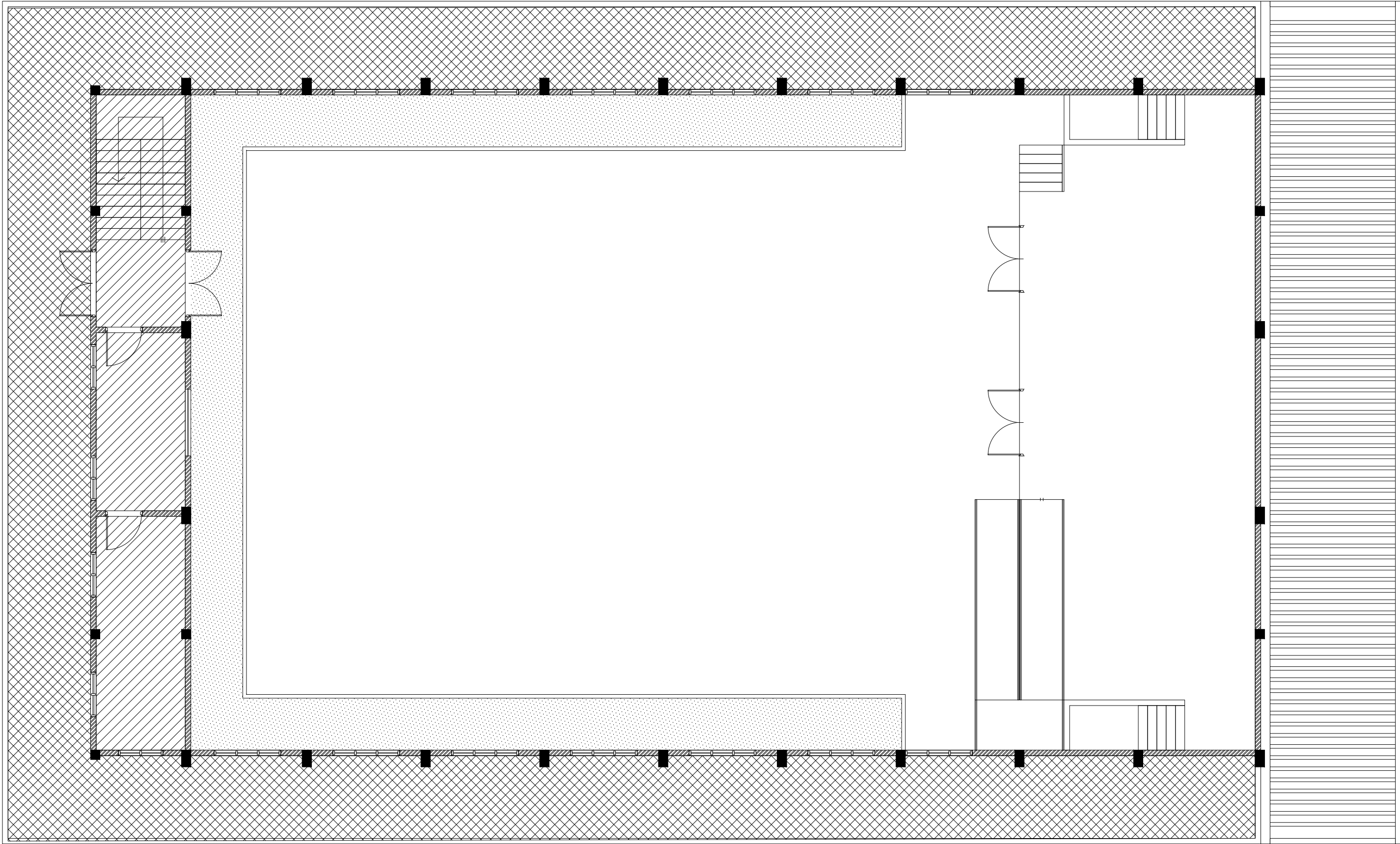
t: +9603315049 f: +9603310776  
e: info@riyan.com.mv  
w: www.riyan.com.mv  
3rd floor, H. Azum, Ammeenemagu, Male'

Title: Door / Window  
Schedule - 2

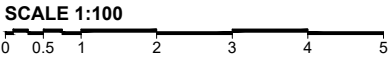
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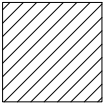


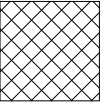


FIRST FLOOR  
FLOOR FINISHES PLAN



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
---	--

AA.Thoddoo 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: -	--	-----



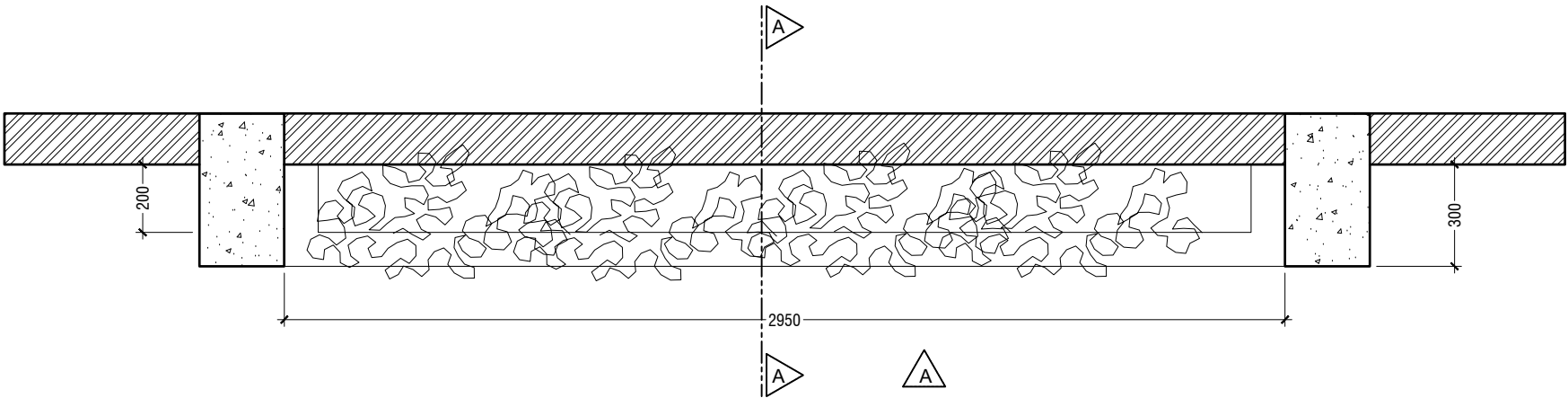
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w: www.riyan.com.mv  
3rd floor, H. Azum, Ammeenemagu, Male'

Title: Door / Window  
Schedule - 2

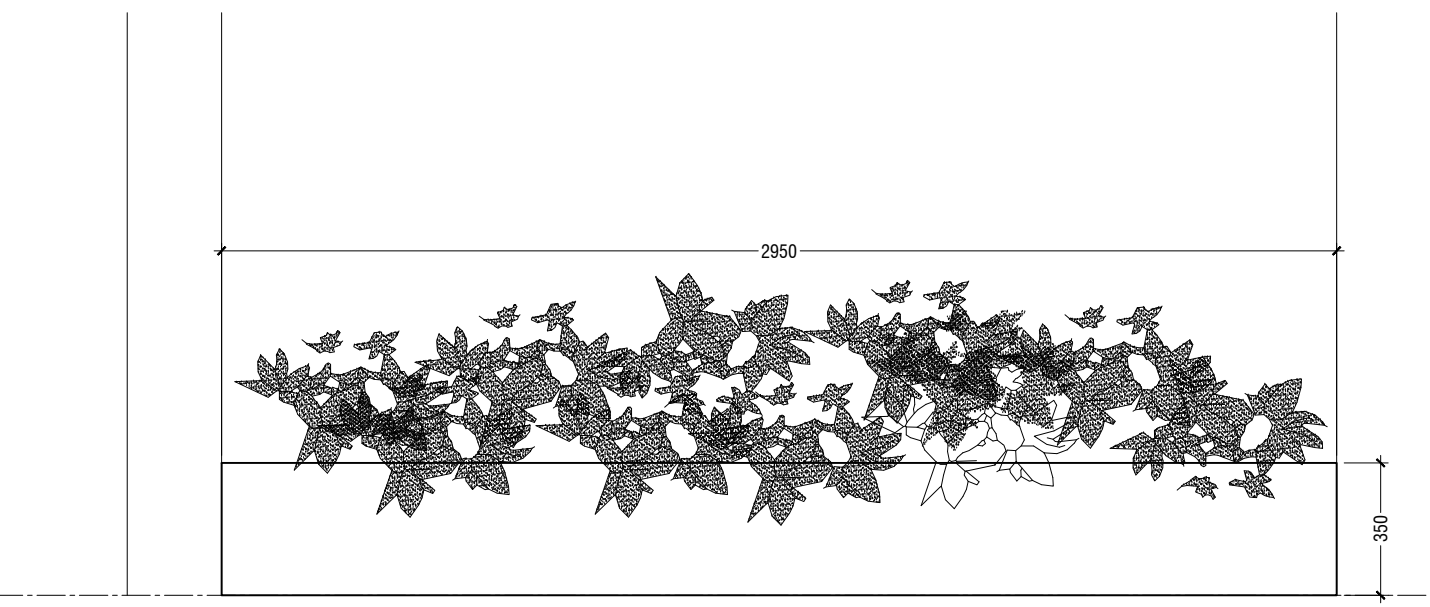
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**PLAN**  
SCALE 1:20

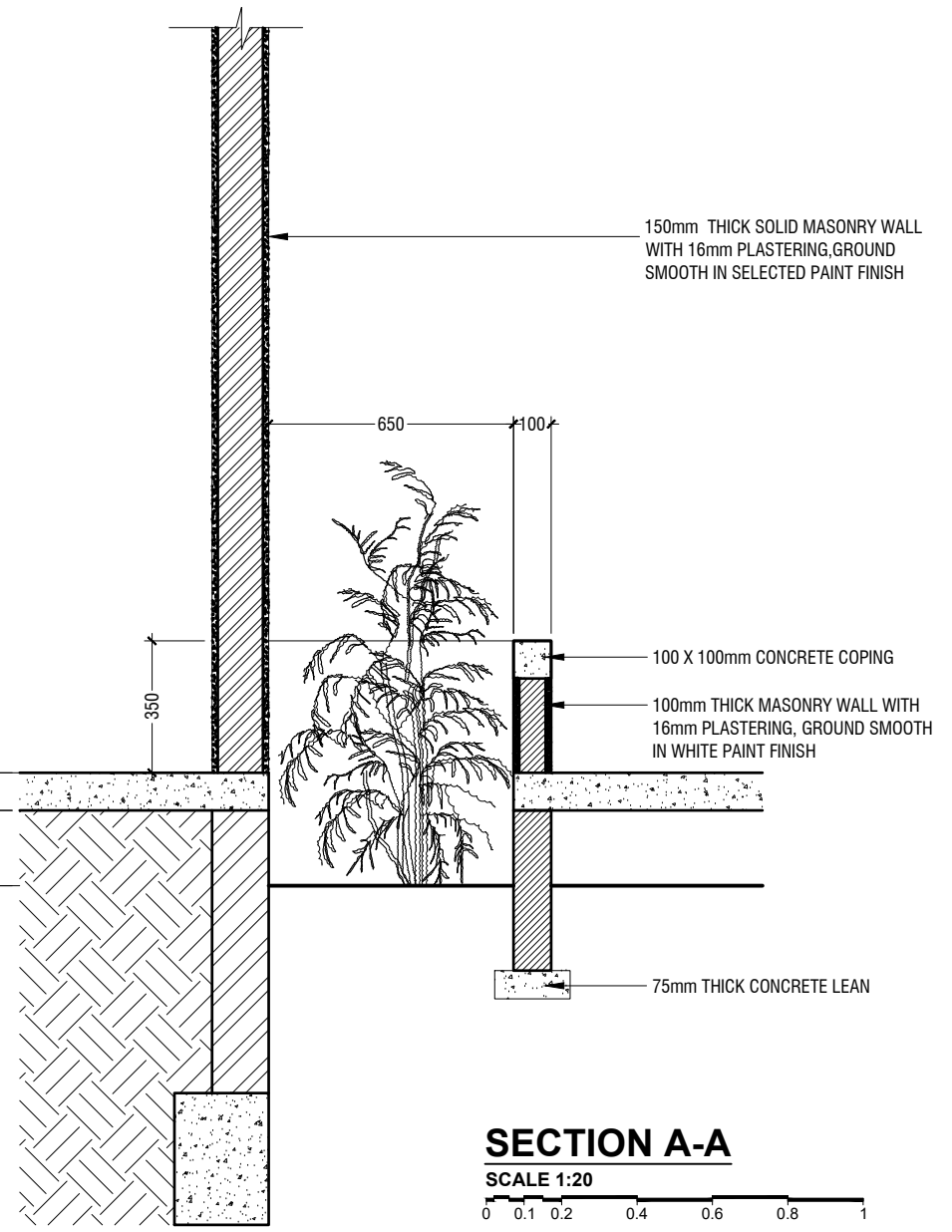
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**ELEVATION A**  
SCALE 1:20

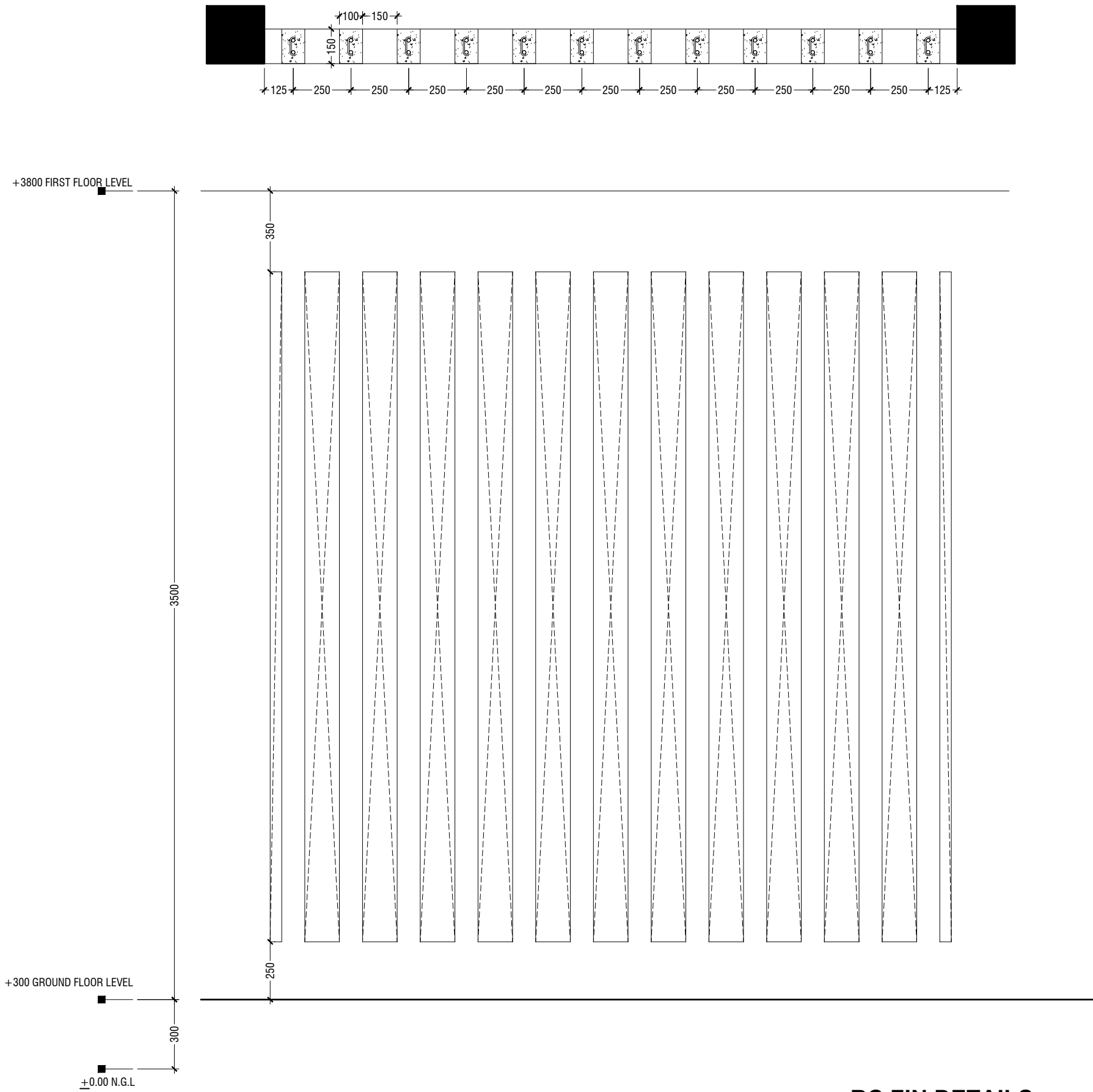
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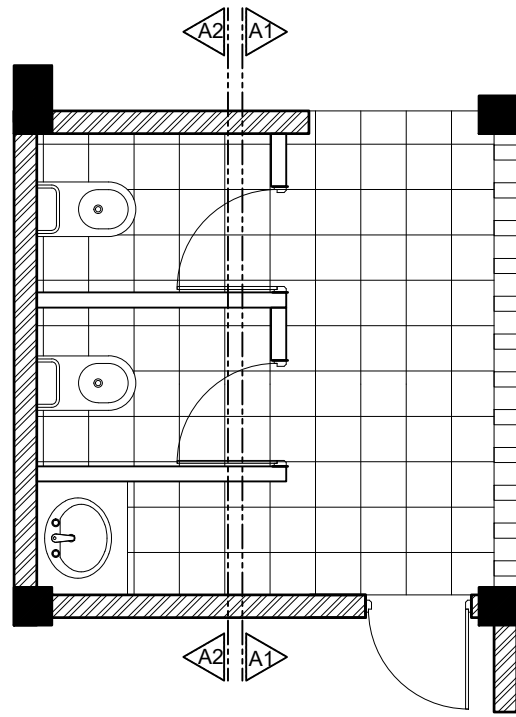
**PLANTER BOX DETAILS**



**SECTION A-A**  
SCALE 1:20

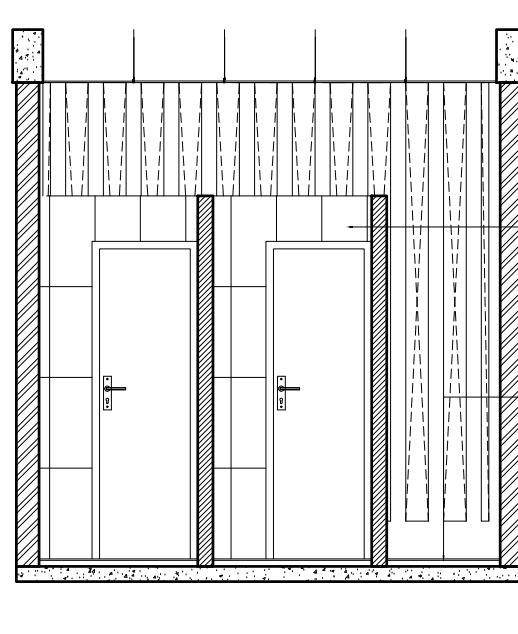
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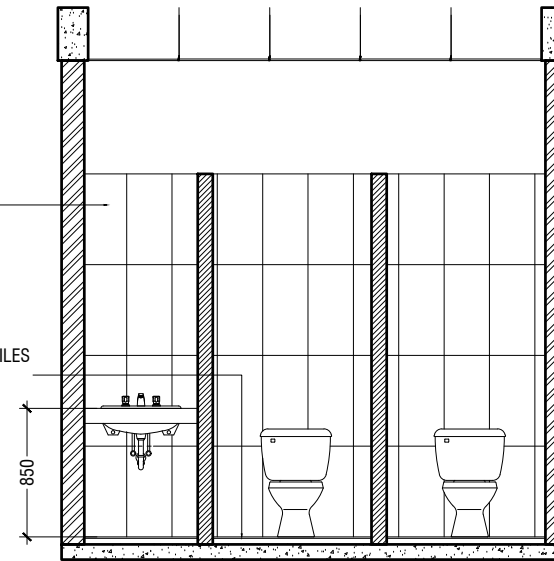
**TYPICAL TOILET PLAN**

SCALE 1:50  
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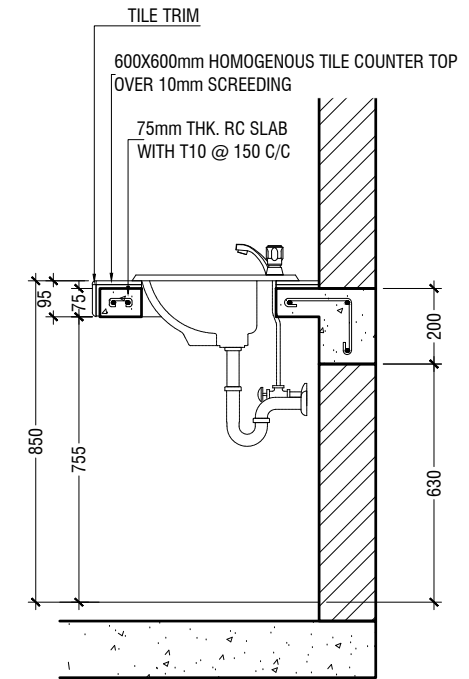
**SECTION A1-A1**

SCALE 1:50  
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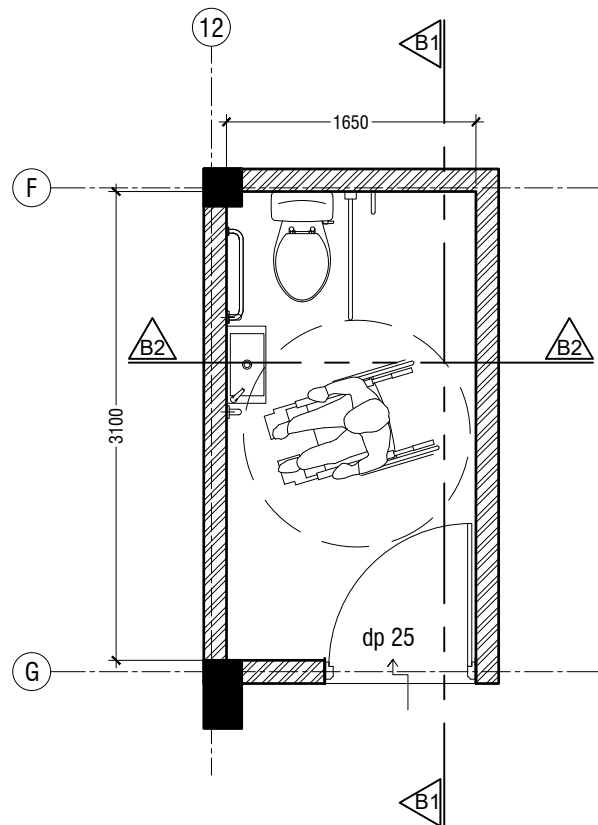
**SECTION A2-A2**

SCALE 1:50  
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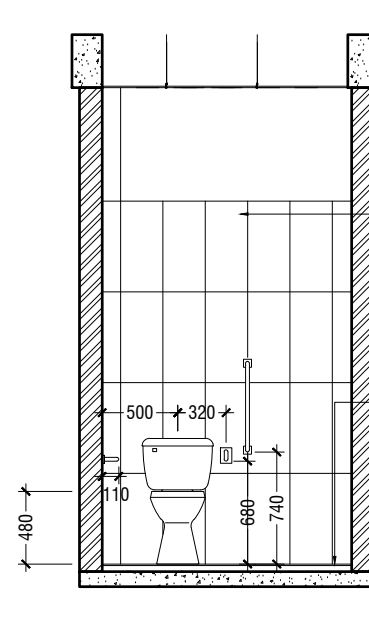
**COUNTER TOP DETAILS**

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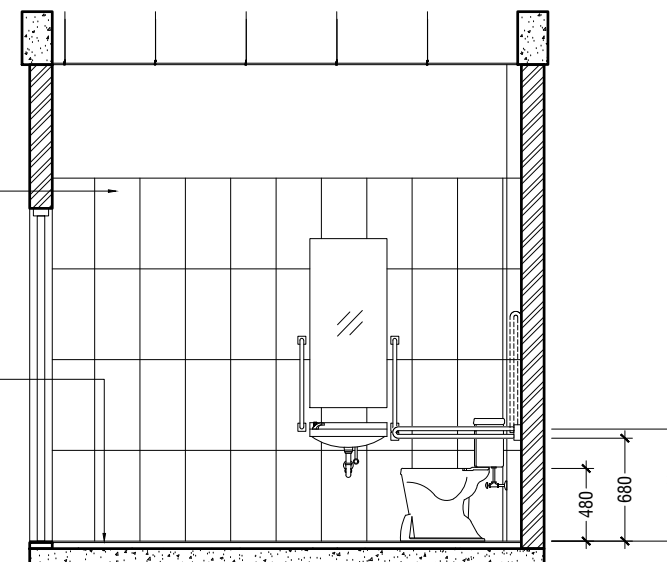
**TOILET FOR PERSONS WITH DISABILITIES PLAN**

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

AA.Thoddoo 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
--	--
--	--



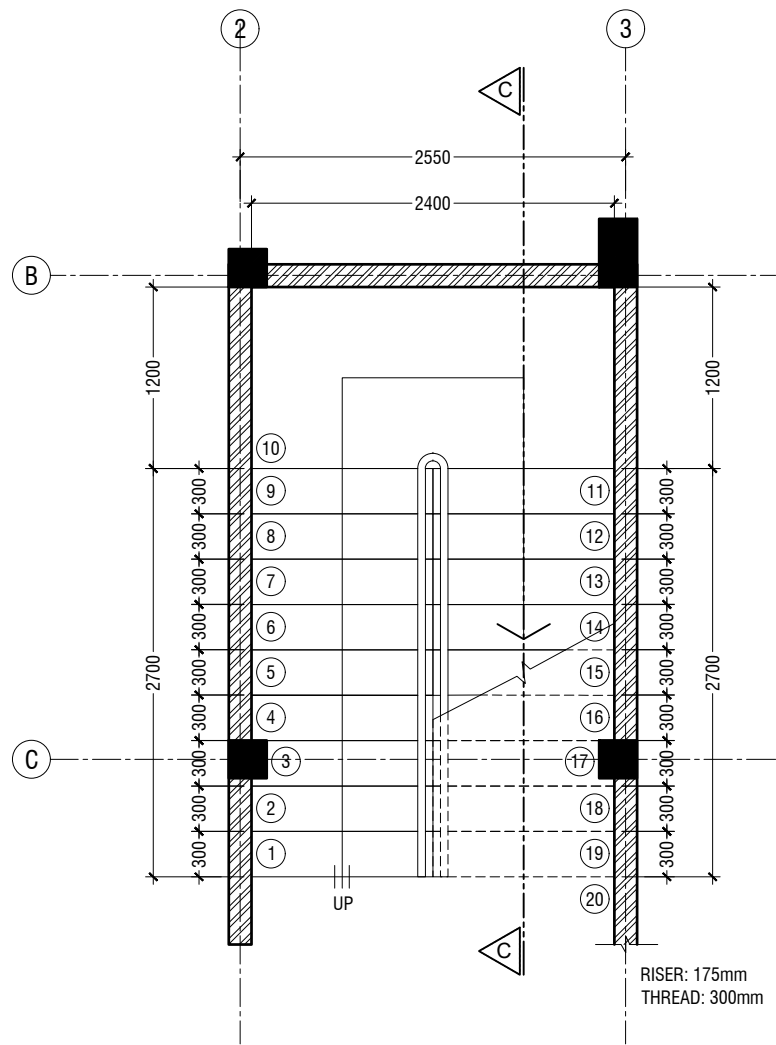
RYIAN PRIVATE LIMITED

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

Title: Toilet details

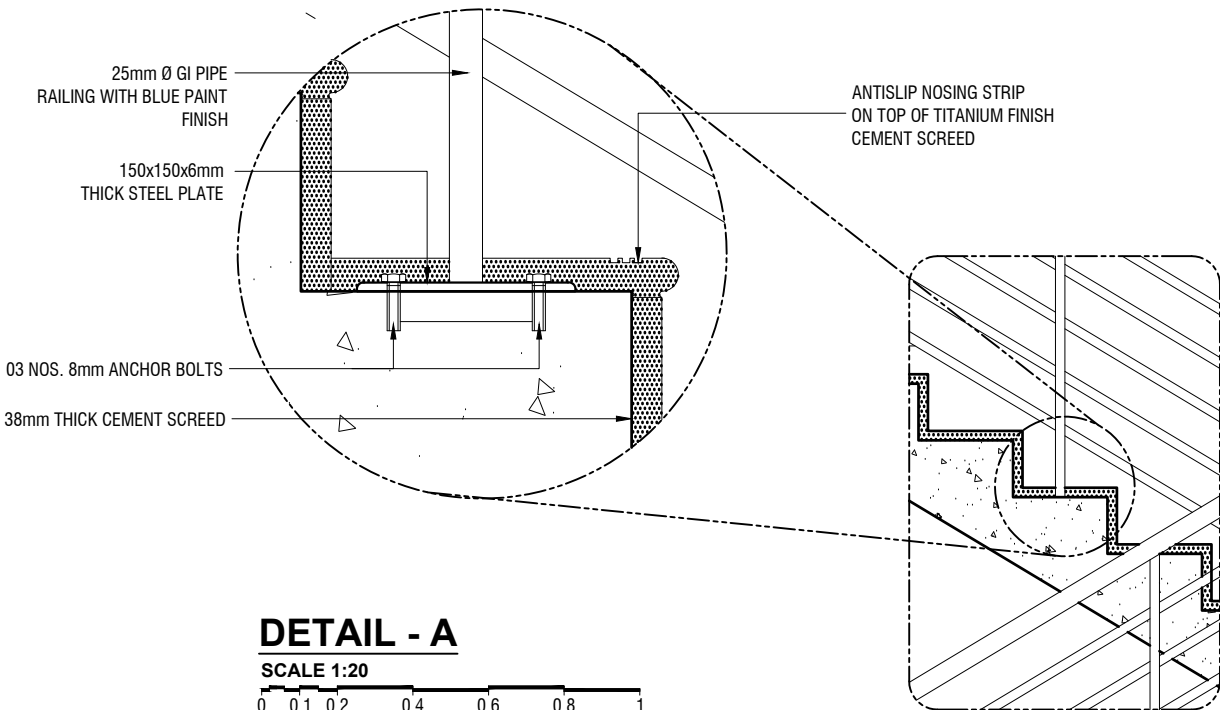
Page: A-16/19

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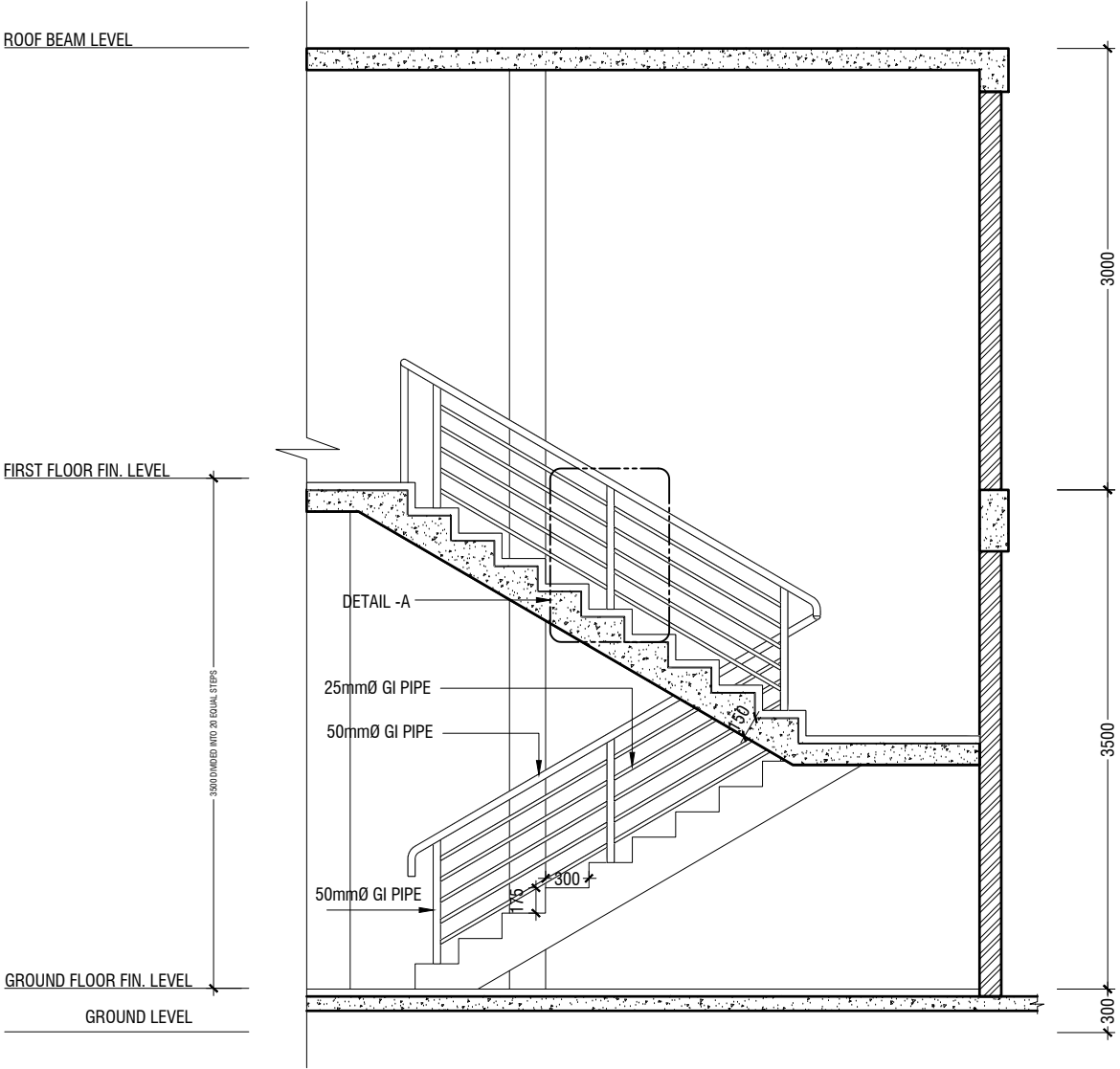
MAIN STAIRCASE PLAN

SCALE 1:50



DETAIL - A

SCALE 1:20



SECTION C-C

SCALE 1:50

MAIN STAIRCASE DETAILS

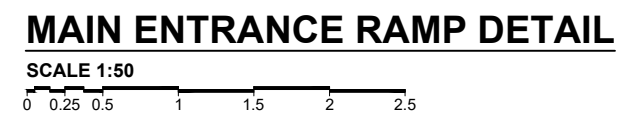
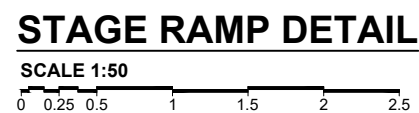
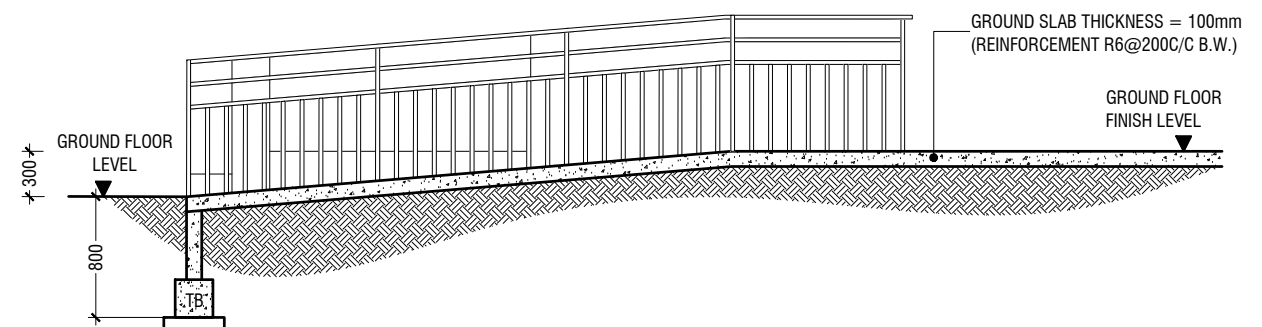
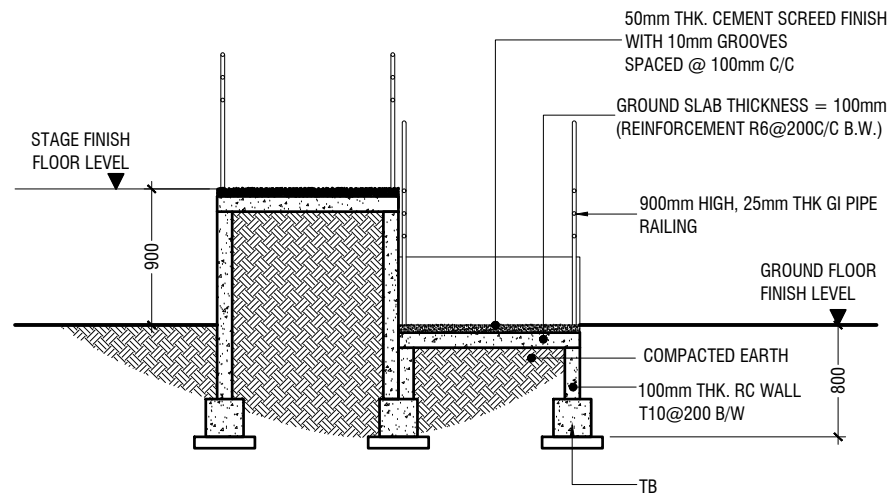
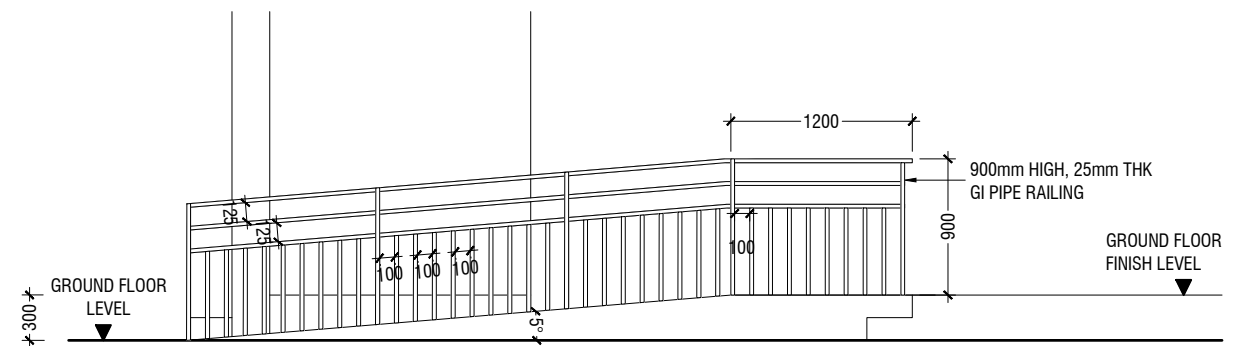
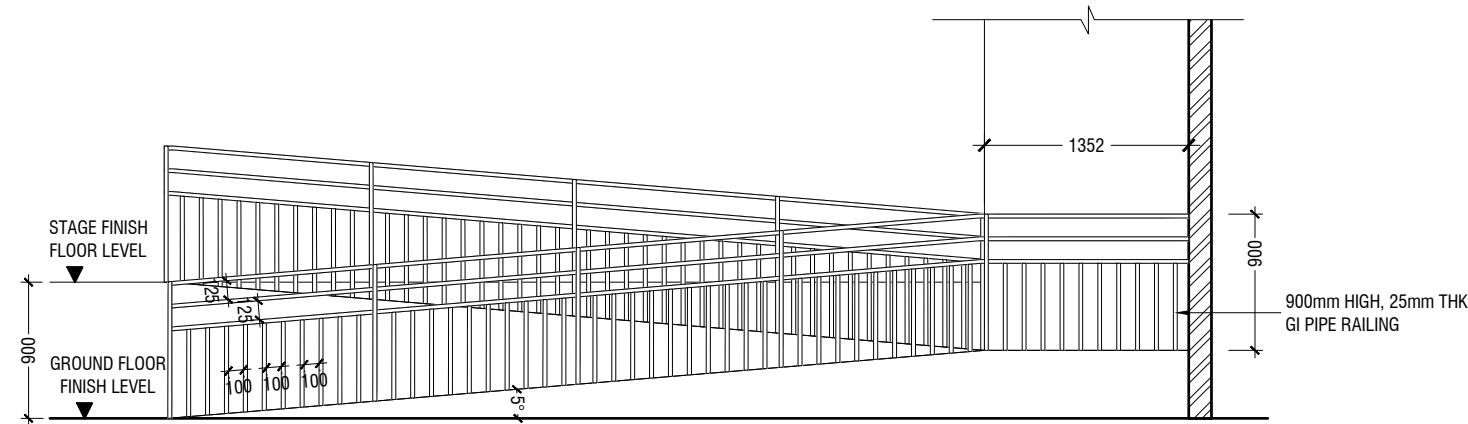
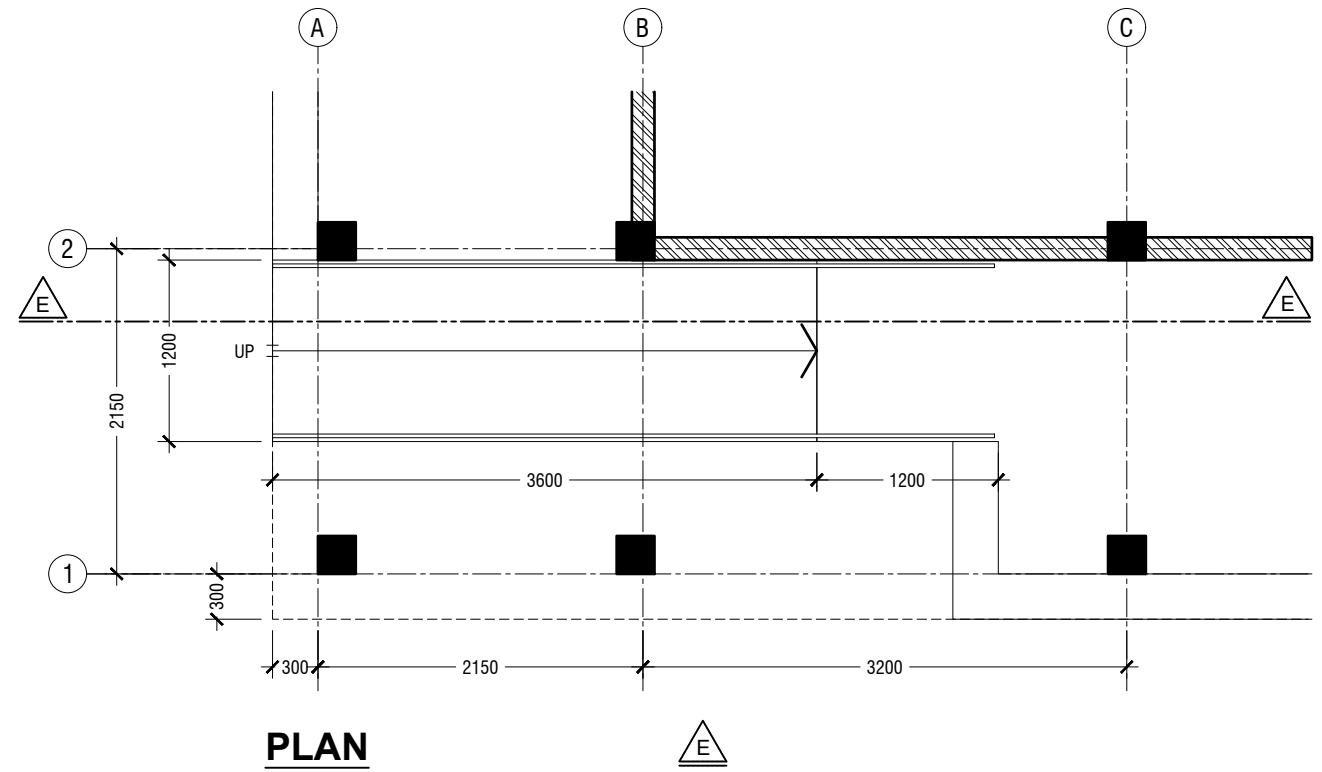
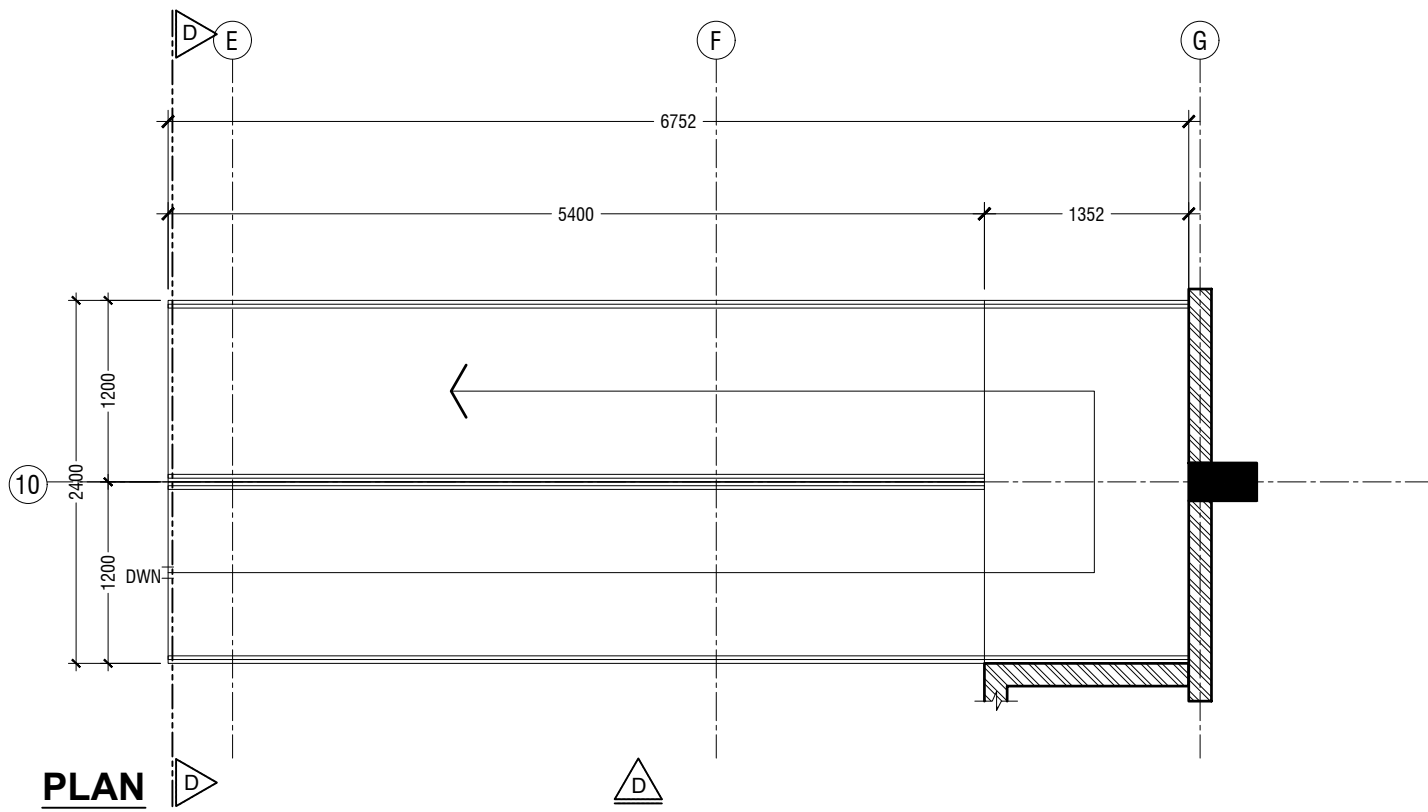
SCALE 1:50

AA.Thoddoo 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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3rd floor, H. Azum, Ameerseemagau, Male'

Title: Main Staircase Detail



AA.Thoddoo School Hall  
Client: Ministry of Education

Rev no	Date
01	11 June 2019
02	
03	
04	

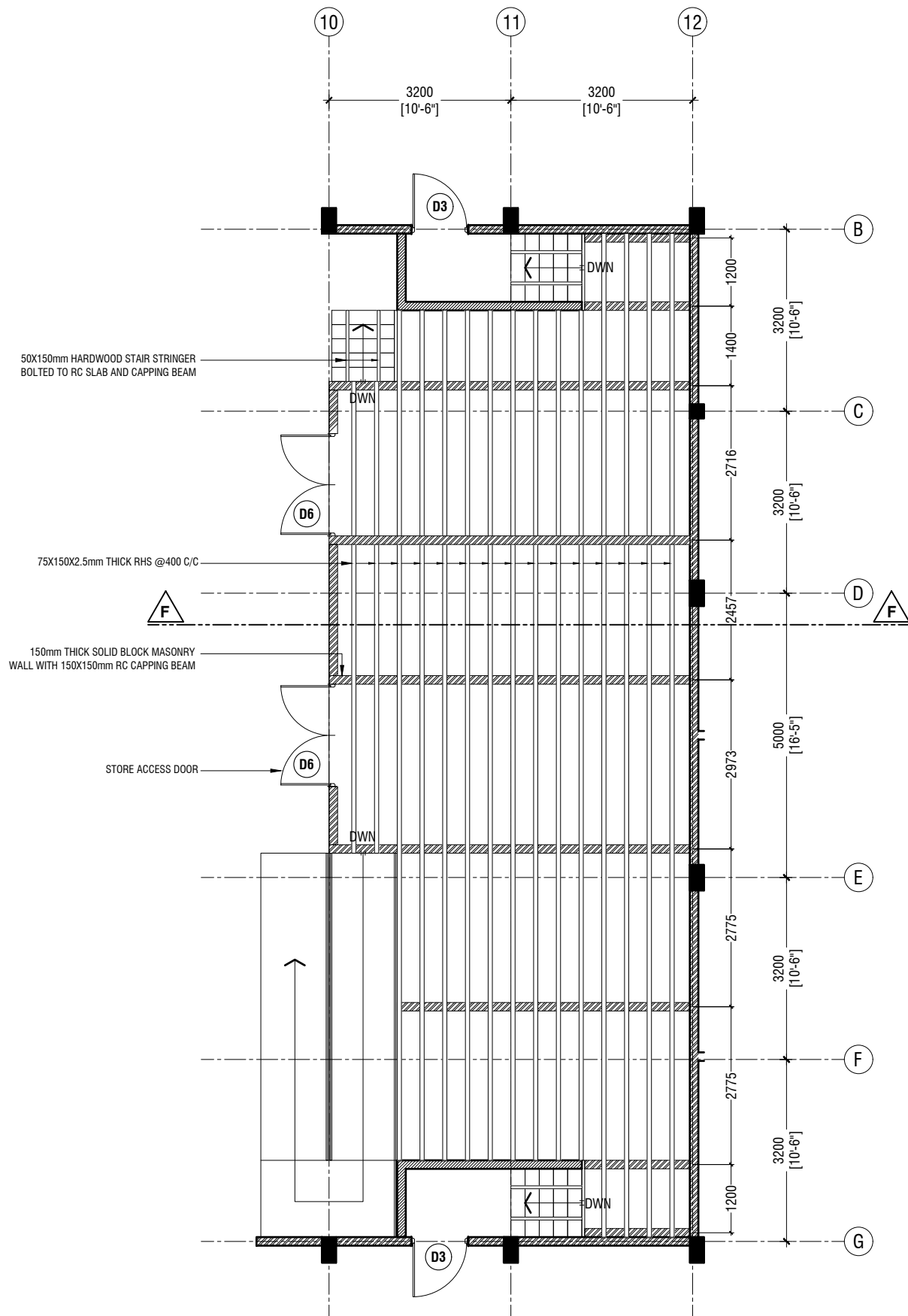
Project Number: RI/2017/012  
 Date: June 2019  
 Architect: Razana Amir  
 Engineer: Ahmed Zuhail Zaeem  
 Drawn by: Razana Amir  
 Interior: Aishath Ahmed



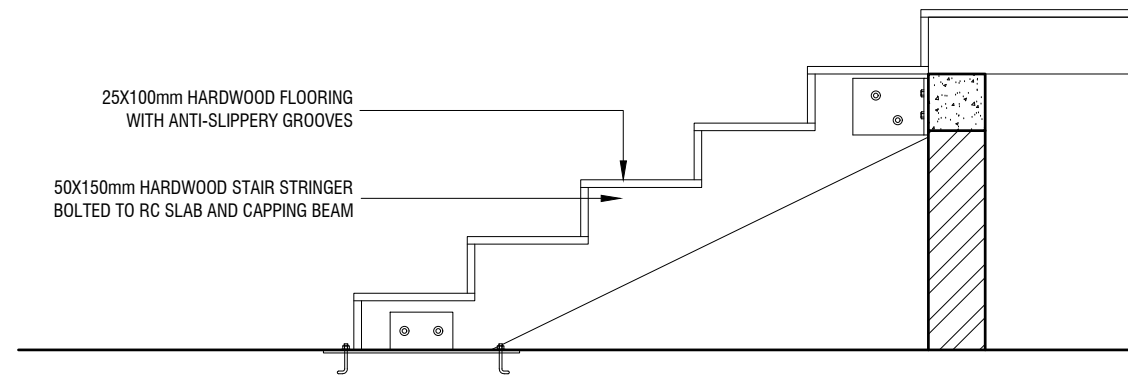
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 w: www.riyan.com.mv  
 3rd floor, H. Azum, Ameerneemagu, Male'

Title: Stage Ramp Detail

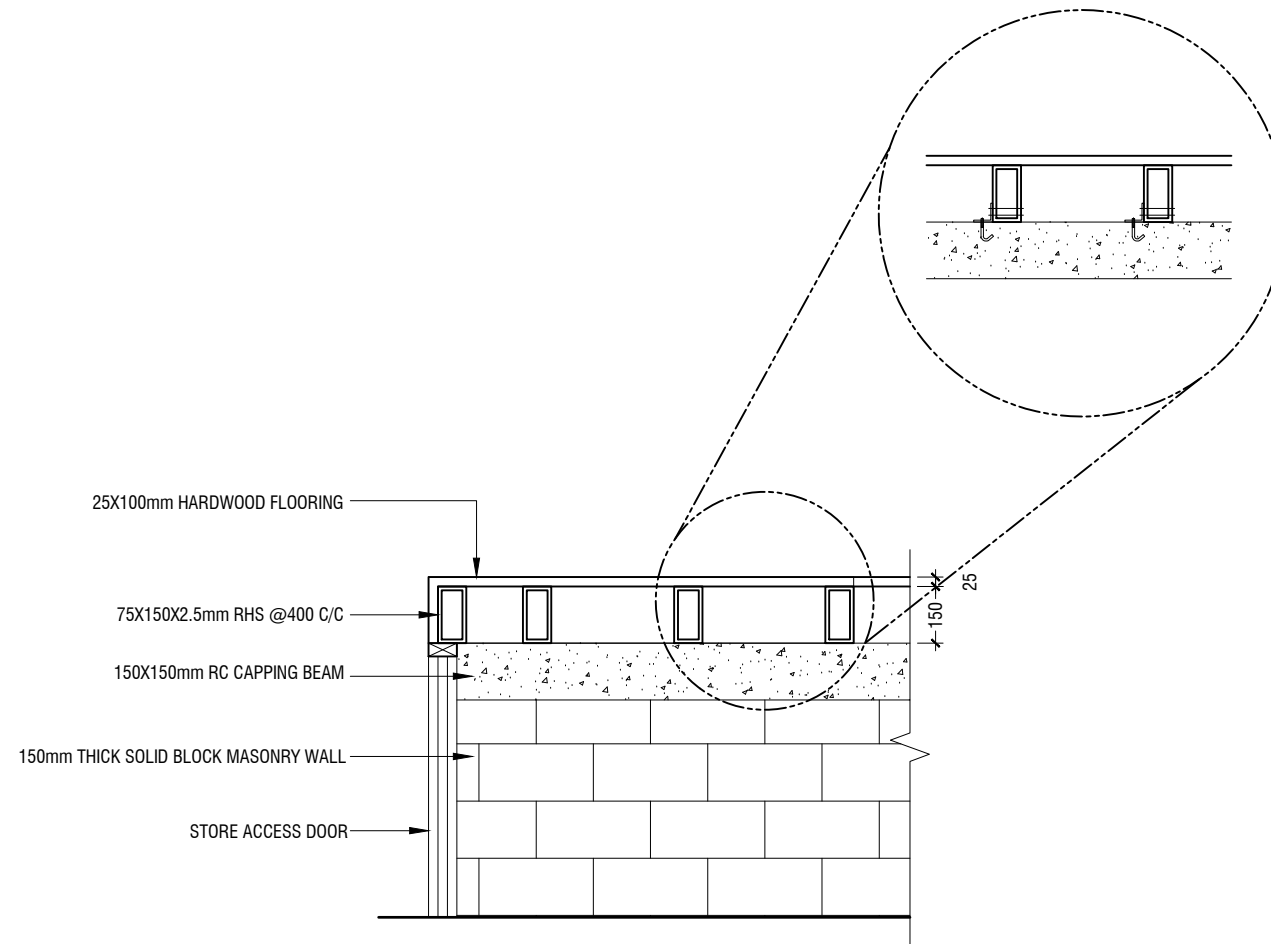




**STAGE FRAMING PLAN**  
SCALE 1:100

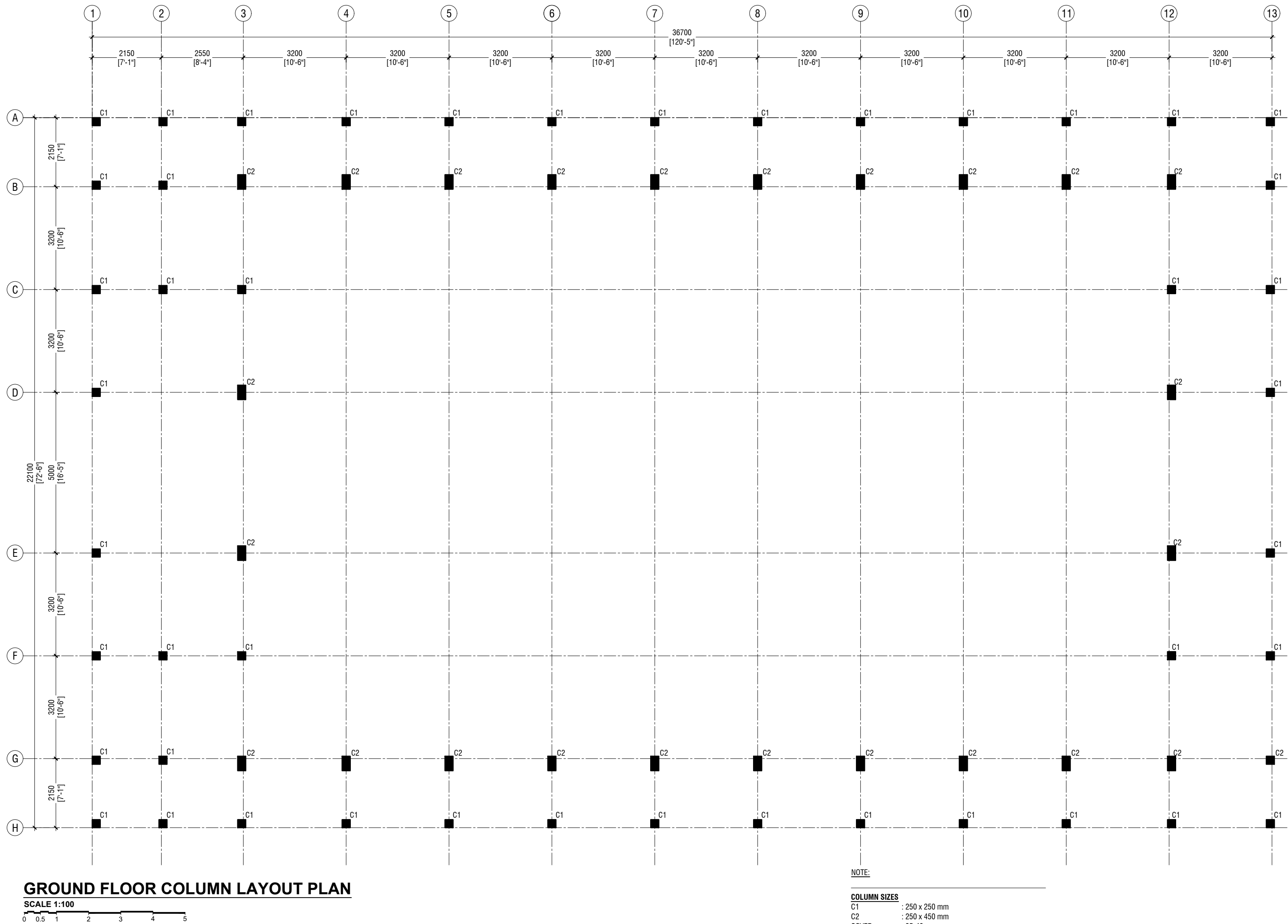


**STAIR DETAIL**  
SCALE 1:20



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





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3rd floor, H. Azum, Ameeremogga, Male

Title: Ground Floor Column Layout Plan

Page: S-01/11

AA Thoddoo School Hall

Client: Ministry of Education

Project Number: RI/2017/012

Architect: Razana Amir

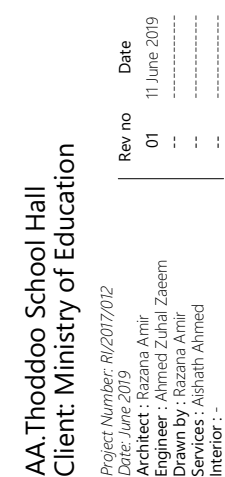
Engineer: Ahmed Zuhail Zaeem

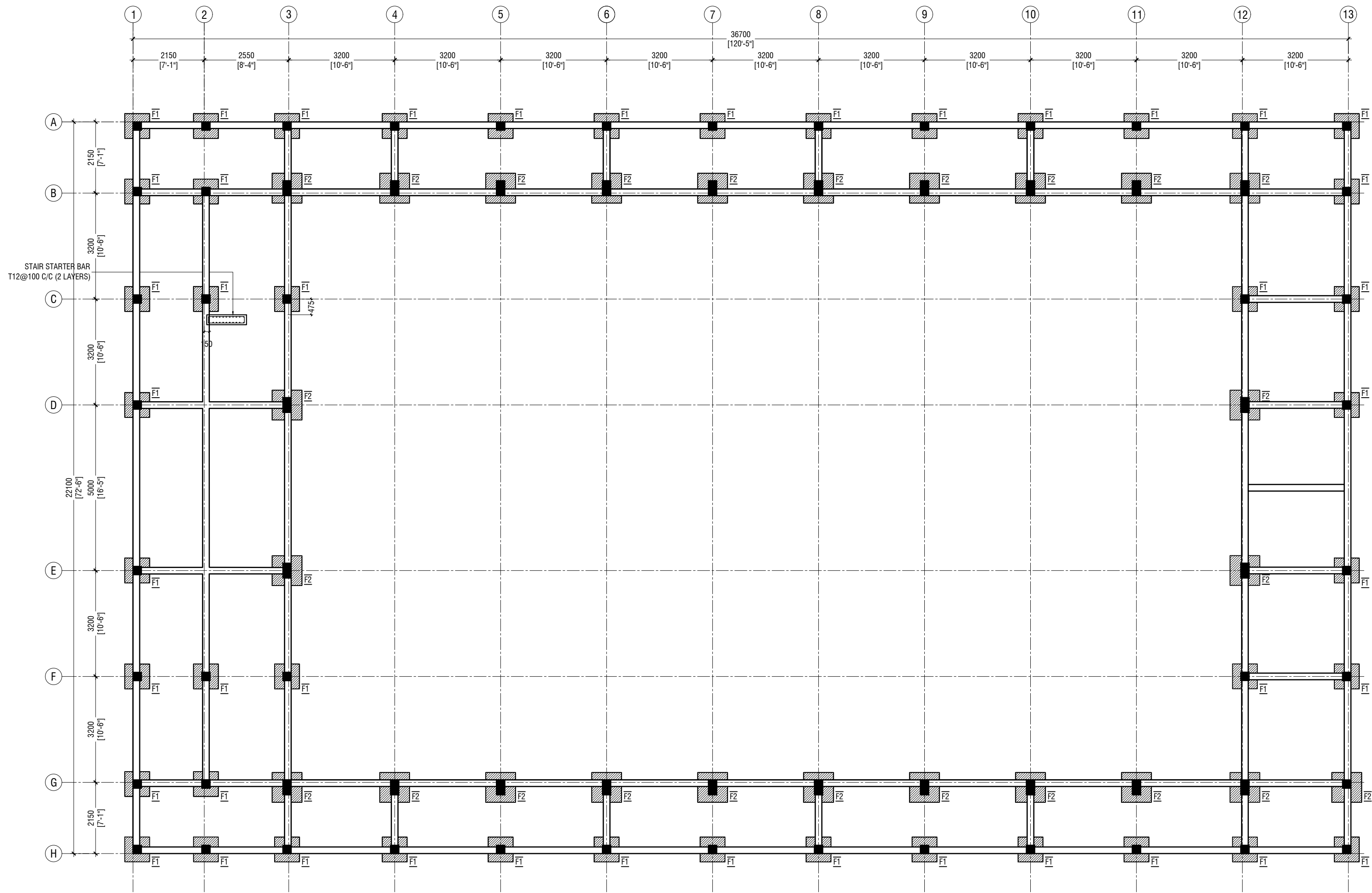
Drawn by: Razana Amir

Services: Alifathi Ahmed

Director: ..

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FOUNDATION PLAN

SCALE 1:100



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

AA.Thoddoo School Hall  
Client: Ministry of Education

Rev no	Date
01	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 Ahmed  
Inspector:



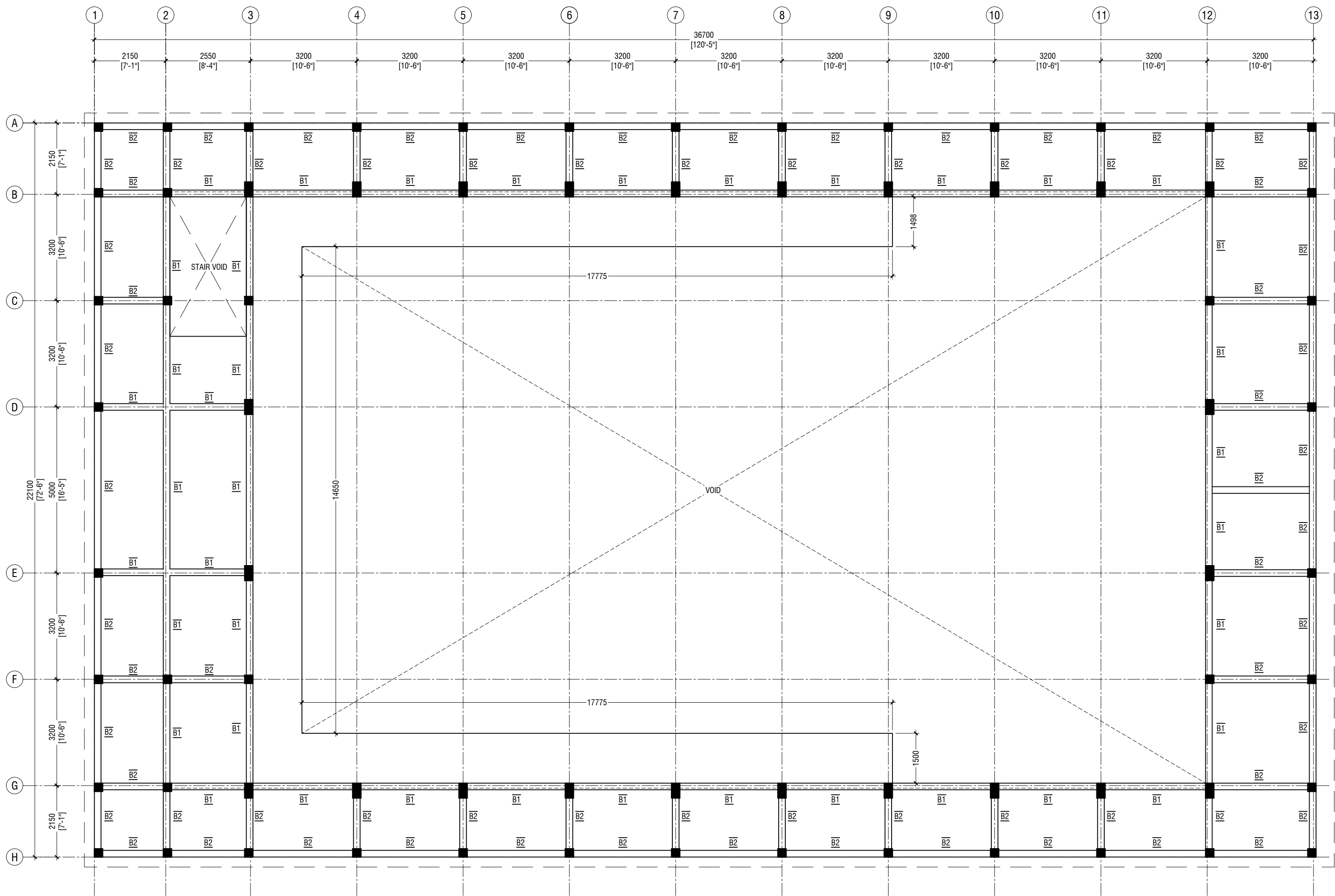
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3rd floor, H. Azum, Ameeremogga, Male

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 )

AA Thoddoo School Hall  
Client: Ministry of Education

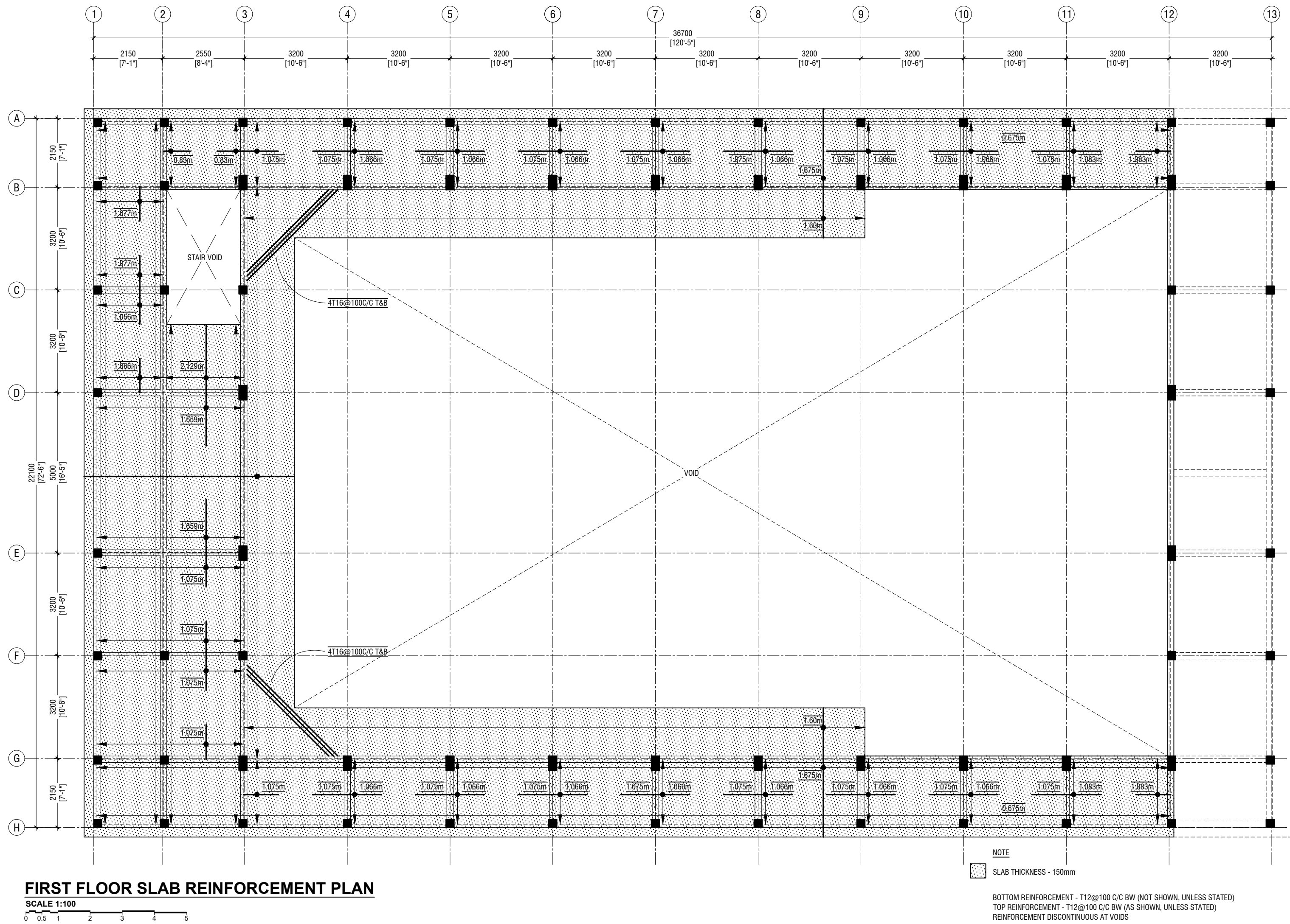
Rev no	Date
01	11 June 2019
02	11 June 2019
03	11 June 2019
04	11 June 2019
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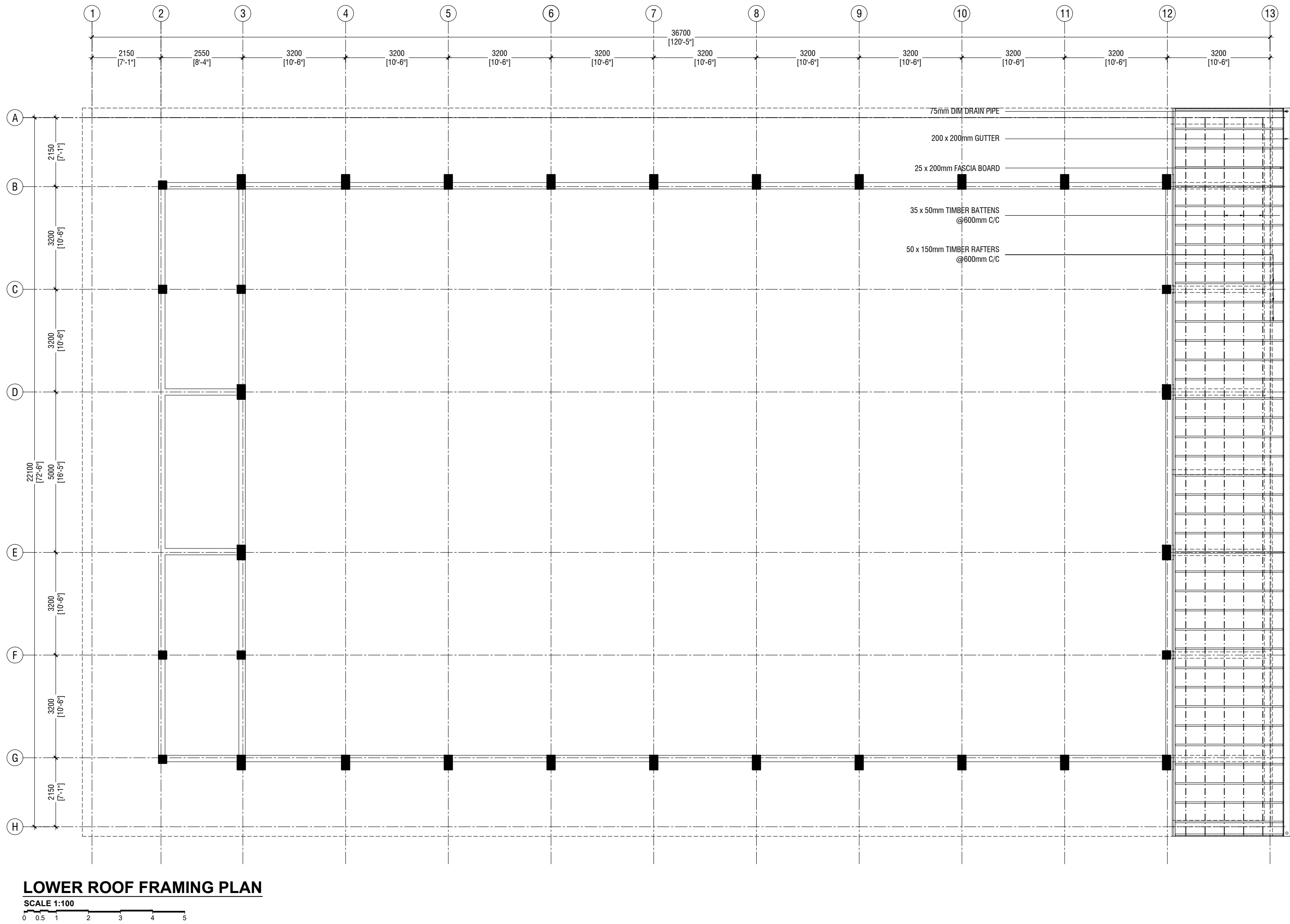


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3rd floor, H. Azumi, Amereemogga, Male'  
Title: 1st Floor Beam Plan

Page: S-04/11

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

Title: Lower Roof Framing Plan

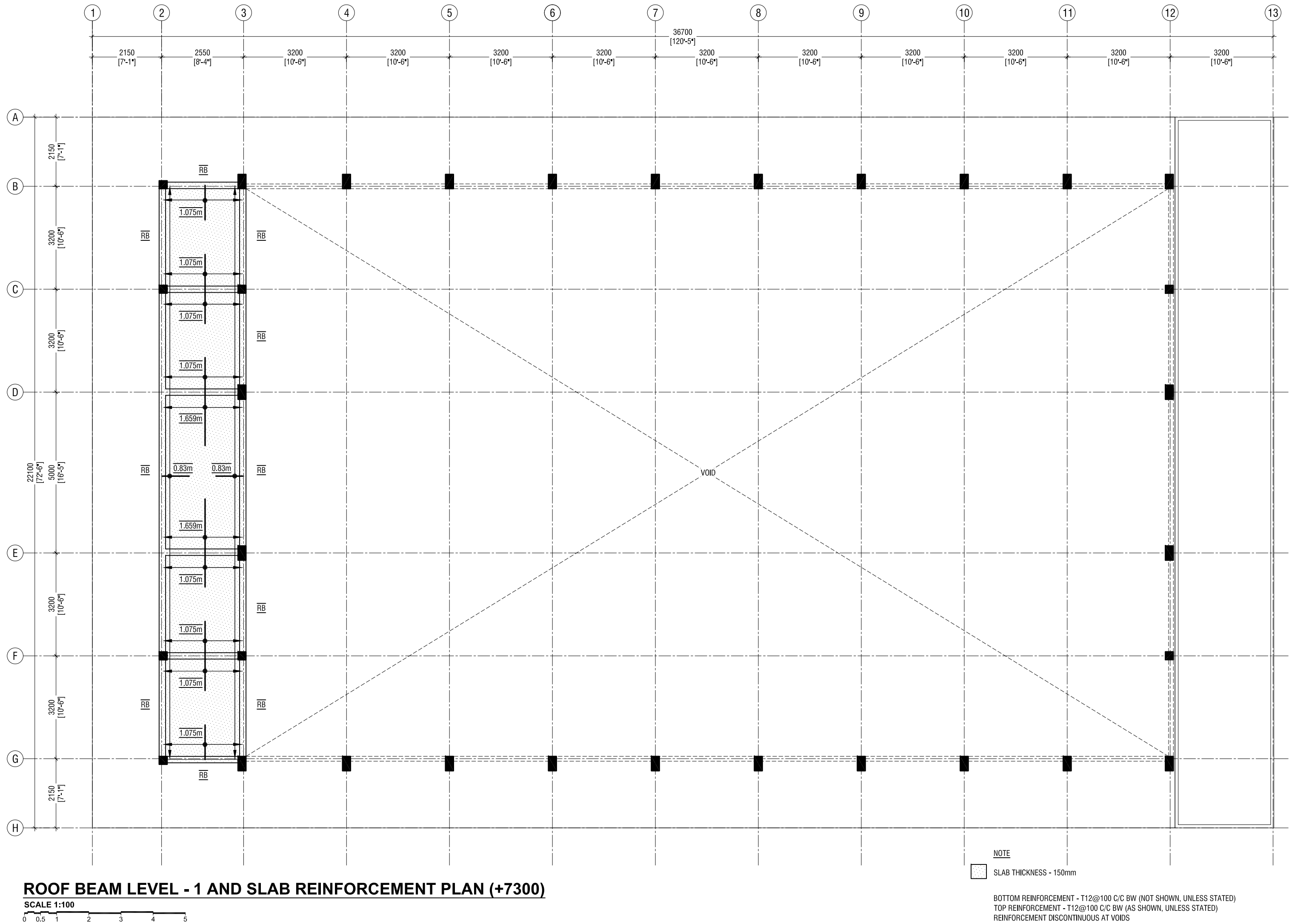
Page: S-06/11

**AA.Thoddoo School Hall**  
Client: Ministry of Education

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

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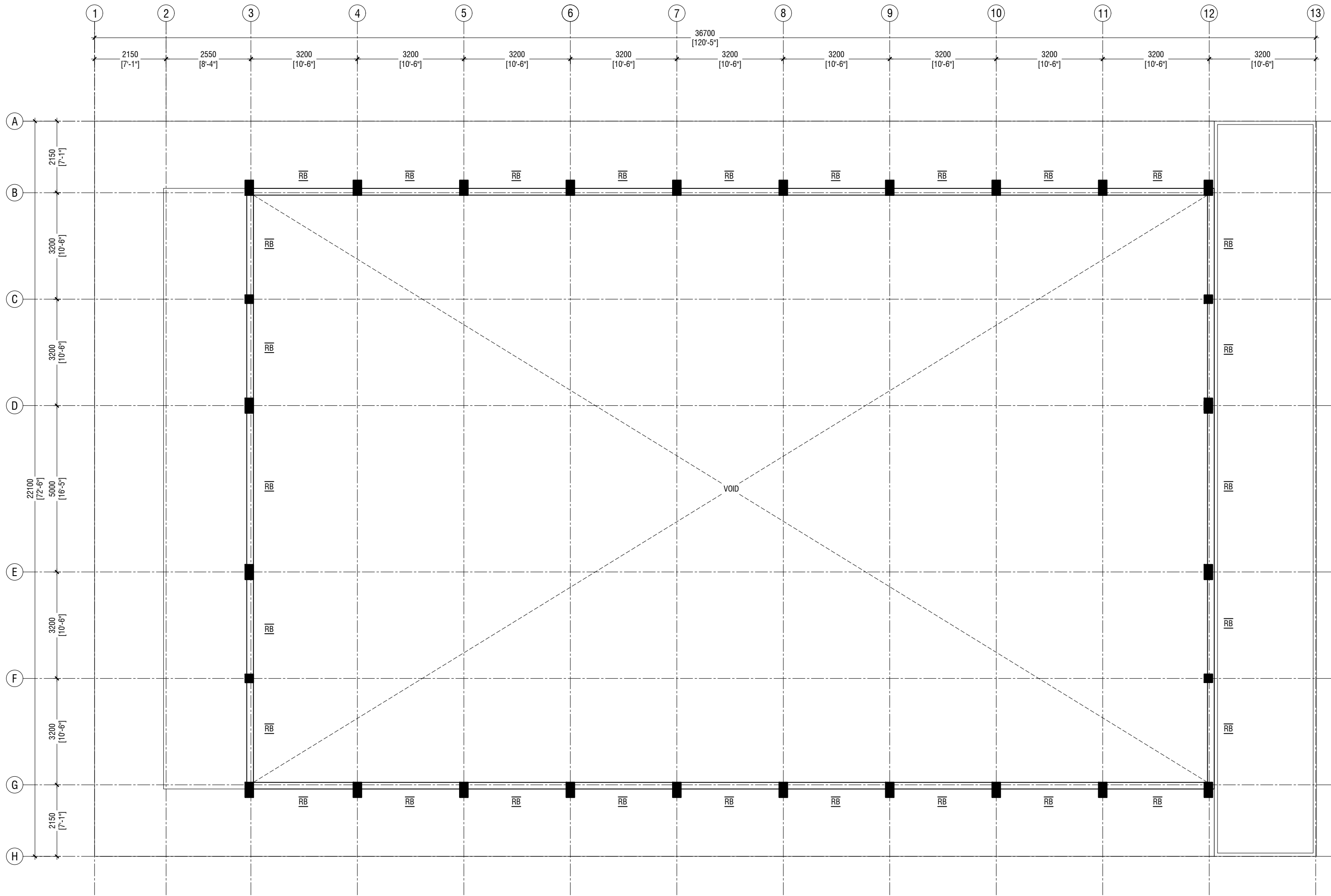


AA.Thoddoo School Hall  
Client: Ministry of Education

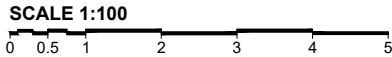
Rev no	Date
01	11 June 2019

Project Number: R/2017/02  
Date: June 2019  
Architect: Razana Amir  
Engineer: Ahmed Zuhail Zaem  
Surveyor: Razana Amir  
Services: Ahsan Ahmed  
Interior: -





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 )

AA.Thoddoo 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 Z. J. Al-Zahrani  
Drawn by: Razana Amir  
Services: Al-Fatih Al-Masri  
Inspector: Al-Fatih Al-Masri

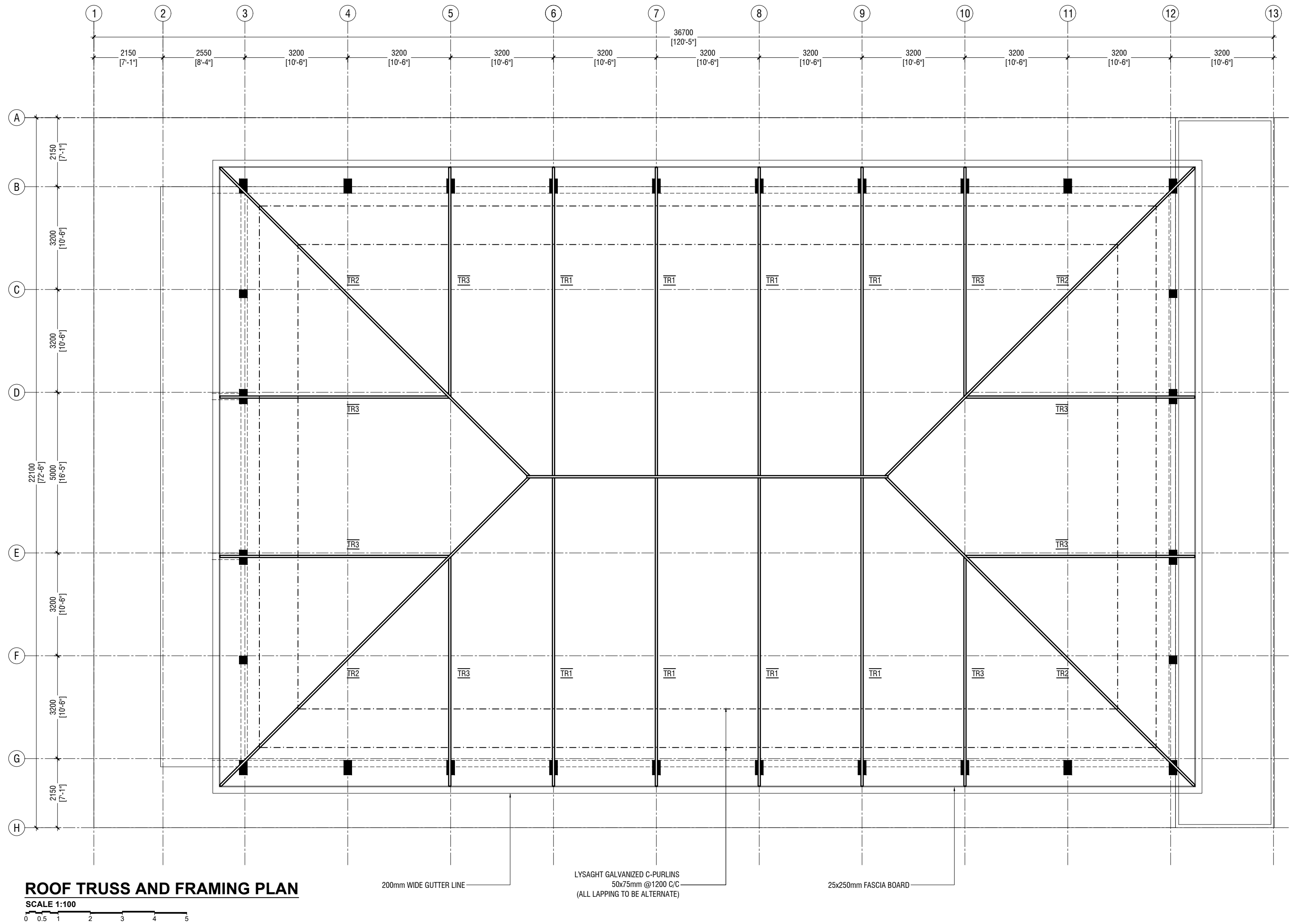


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3rd floor, H. Azumi, Amereemogga, Male

Title: Roof Beam Level - 2 P  
Plan

Page: S-08/11

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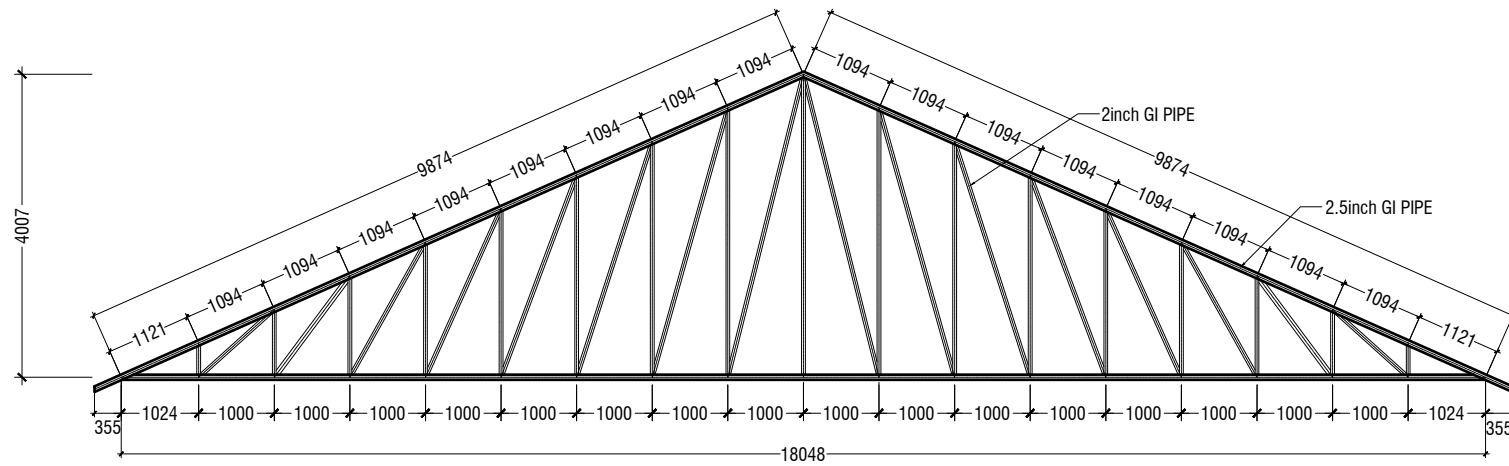


AA.Thoddoo School Hall  
Client: Ministry of Education

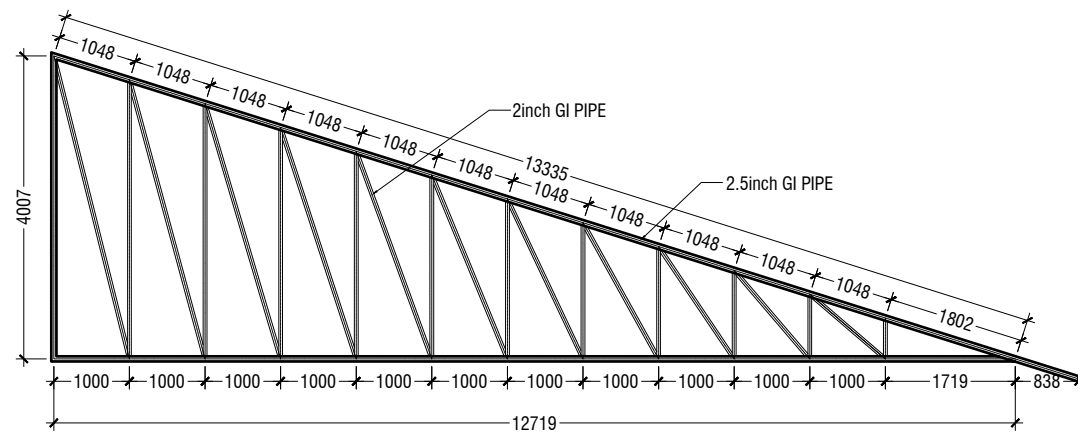
Rev no	Date
01	11 June 2019

Project Number: RI/2017/012  
Architect: Razana Amir  
Engineer: Ahmed Z. J. Al-Zaim  
Drawn by: Razana Amir  
Services: Al-Fatih Ahmed  
Inspector:

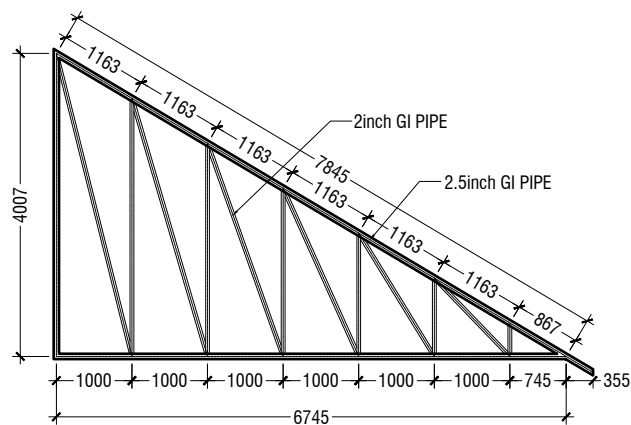
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**TRUSS TYPE TR1**

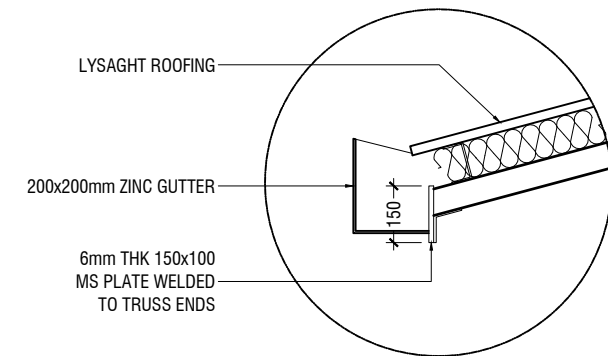
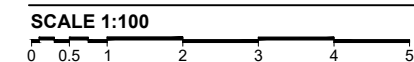


**TRUSS TYPE TR2**



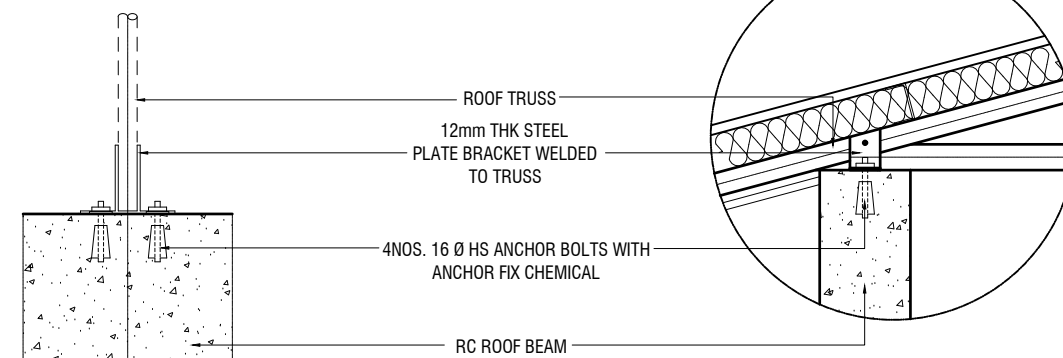
**TRUSS TYPE TR3**

**ROOF TRUSS DETAILS**



**GUTTER/FASCIA DETAIL**

SCALE 1:20



**ELEVATION**

SCALE 1:20

**SECTION**

SCALE 1:20

**TYPICAL TRUSS FIXING DETAILS**



AA.Thoddoo 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: -	---

Rev no

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



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

Title: Roof Truss Details

Page: S-10/11

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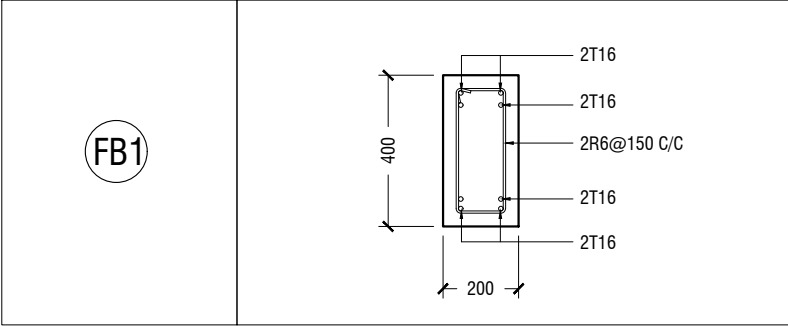
	DIMENSION	REINFORCEMENT
F1	750 x 750 x 250	T10@150 C/C B/W (B)
F2	900 x 900 x 300	T10@100 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

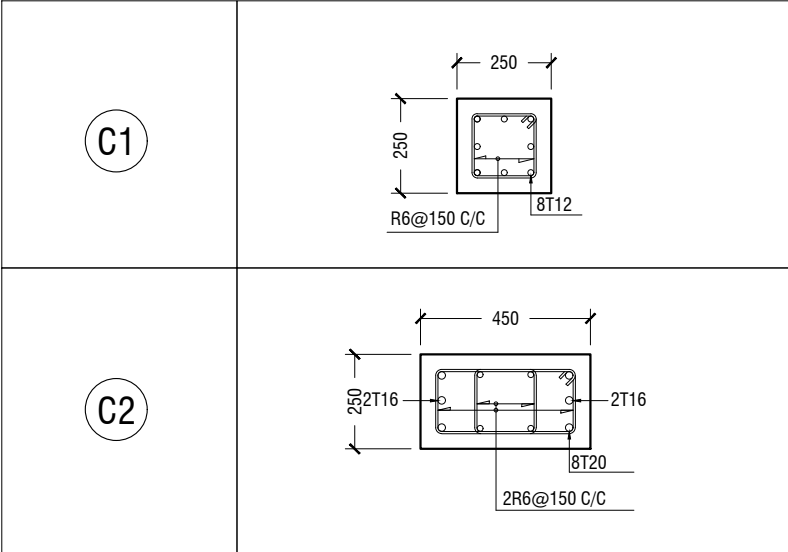
NOTE:-  
COVER TO FOUNDATION = 50mm  
COVER TO COLUMNS = 35-40mm  
COVER TO BEAMS = 35mm  
LAPS = Ø OF BAR x 45  
BEAMS @END SUPPORT = Ø OF BAR x 12

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

FOUNDATION PADS

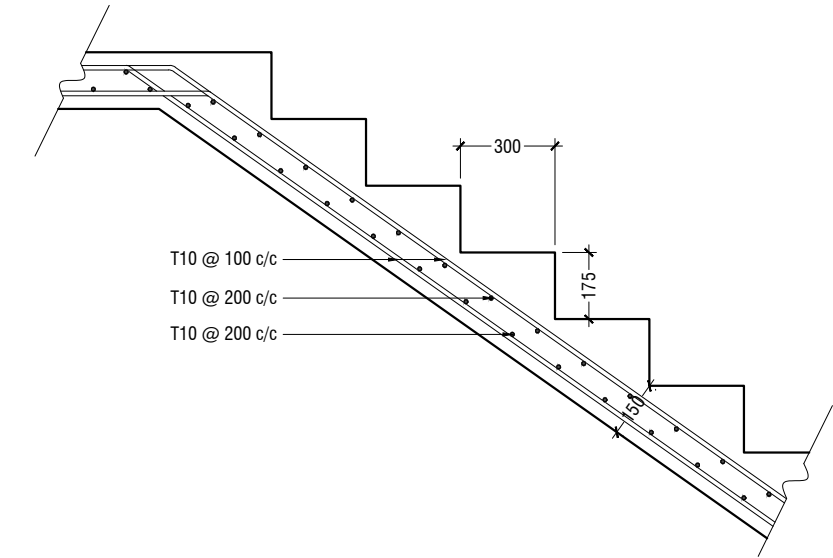


FOUNDATION DETAILS

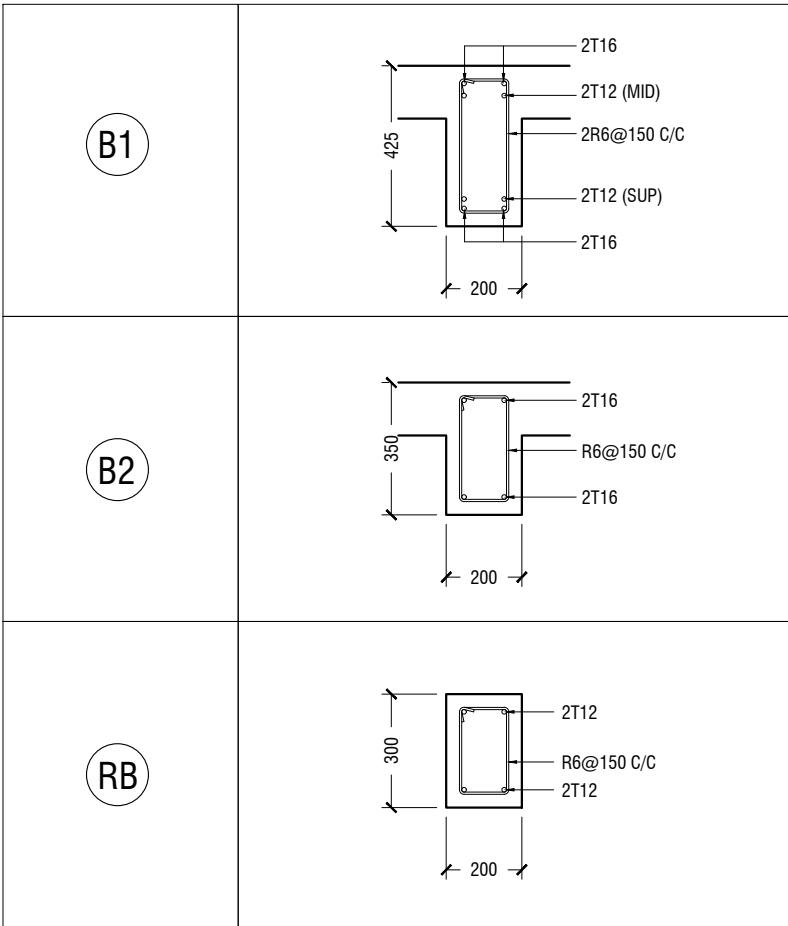


COLUMN DETAIL

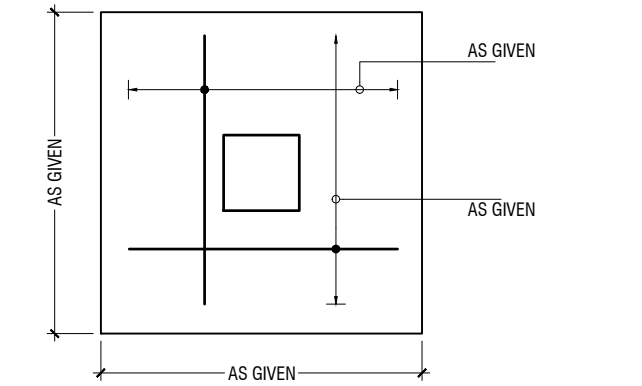
STRUCTURAL DETAILS



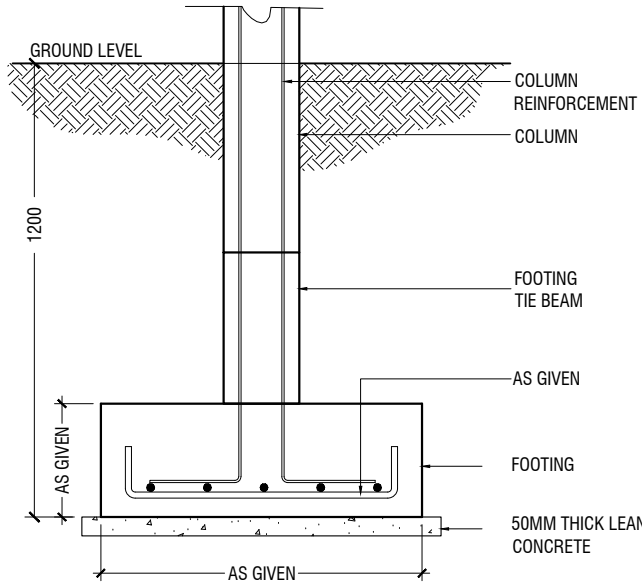
MAIN STAIRCASE REINFORCEMENT DETAIL



BEAM DETAIL



PLAN



SECTION

FOOTING DETAILS

AA.Thoddoo 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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Title: Structural Details

Page: S-11/11

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