

Proposed 12 Classroom at  
S.Maradhoo School  
(04 Storey)

*ARCHITECTURAL & STRUCTURAL DRAWINGS*

Client: Ministry of Education

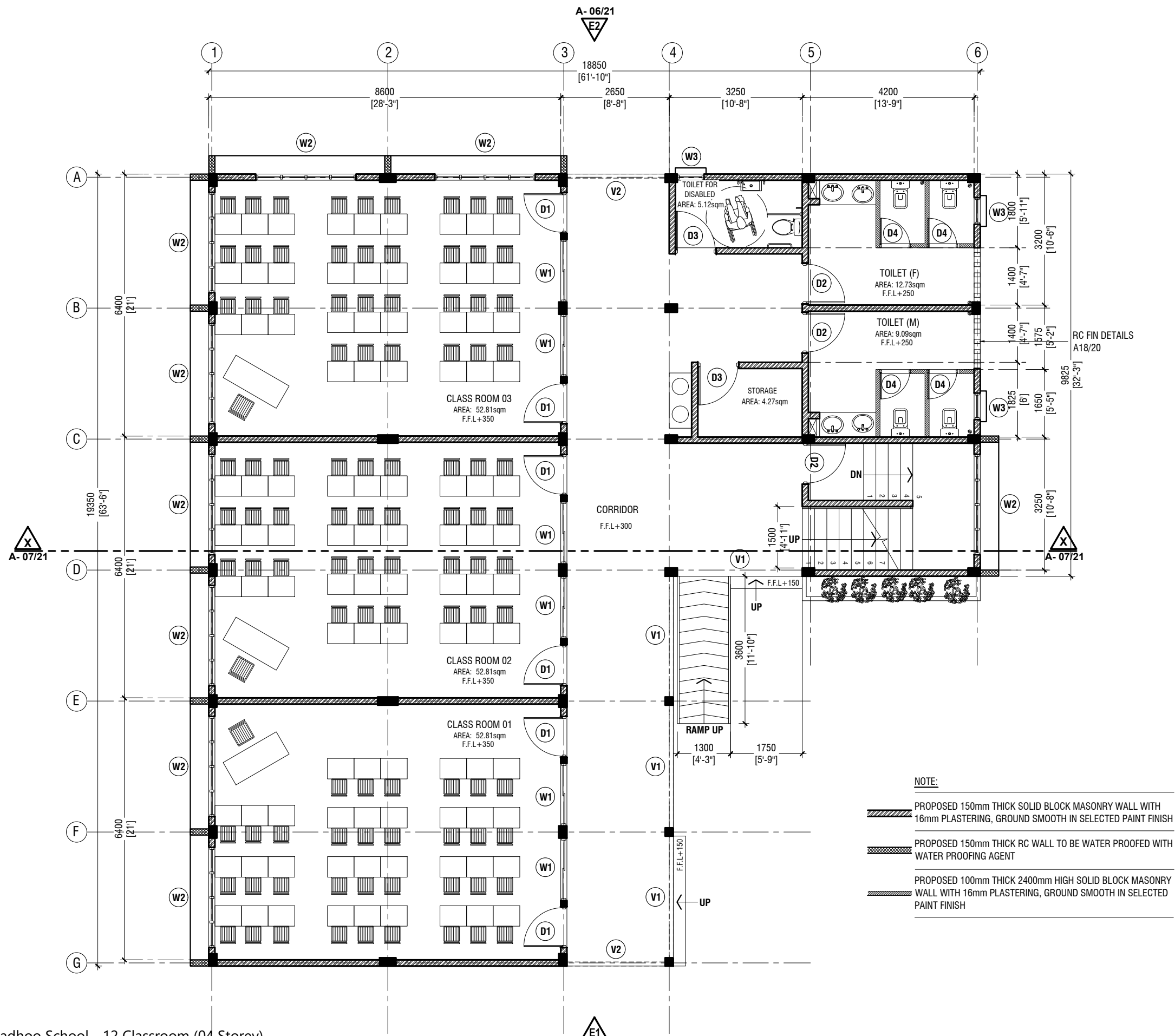


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**GROUND FLOOR PLAN**

SCALE 1:100



**S.Maradhoo School - 12 Classroom (04 Storey)**  
Client: Ministry of Education

Project Number: RI/2017/012  
Date: October 2019

Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

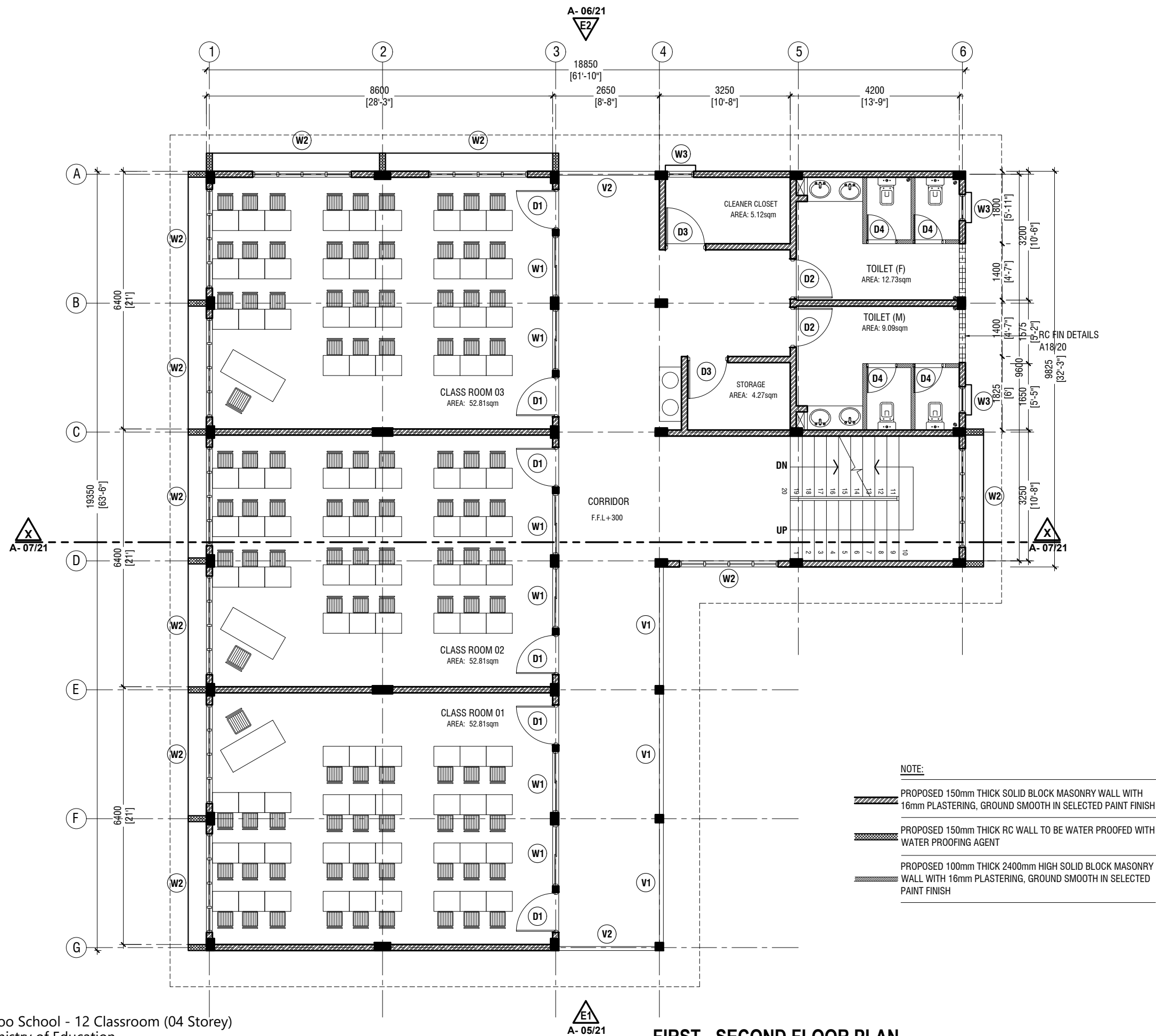
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Title: Ground Floor Plan

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**FIRST - SECOND FLOOR PLAN**  
SCALE 1:100

S.Maradhoo School - 12 Classroom (04 Storey)  
Client: Ministry of Education

Project Number: RI/2017/012  
Date: October 2019

Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

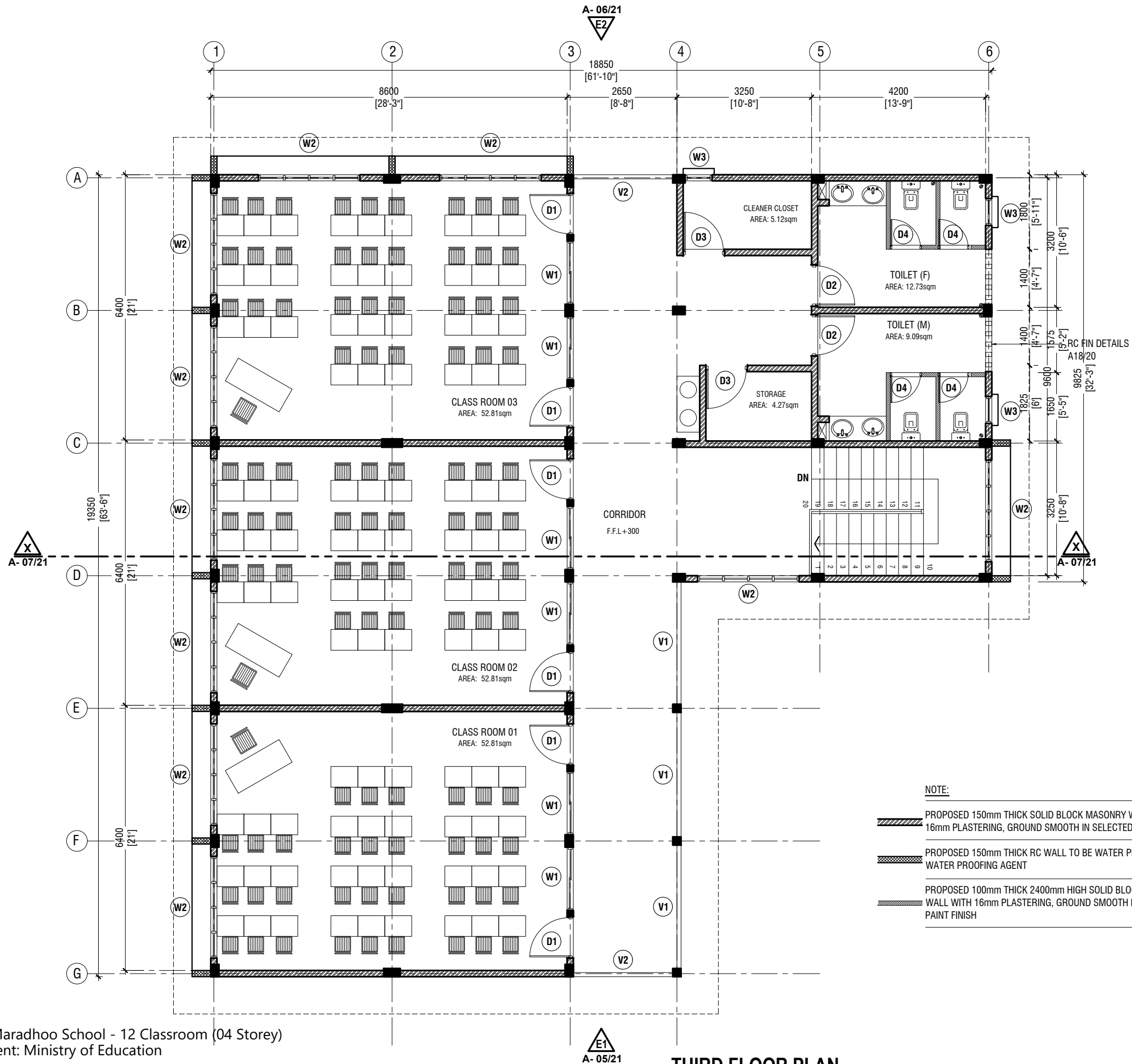
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Title: First - Second Floor Plan

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Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

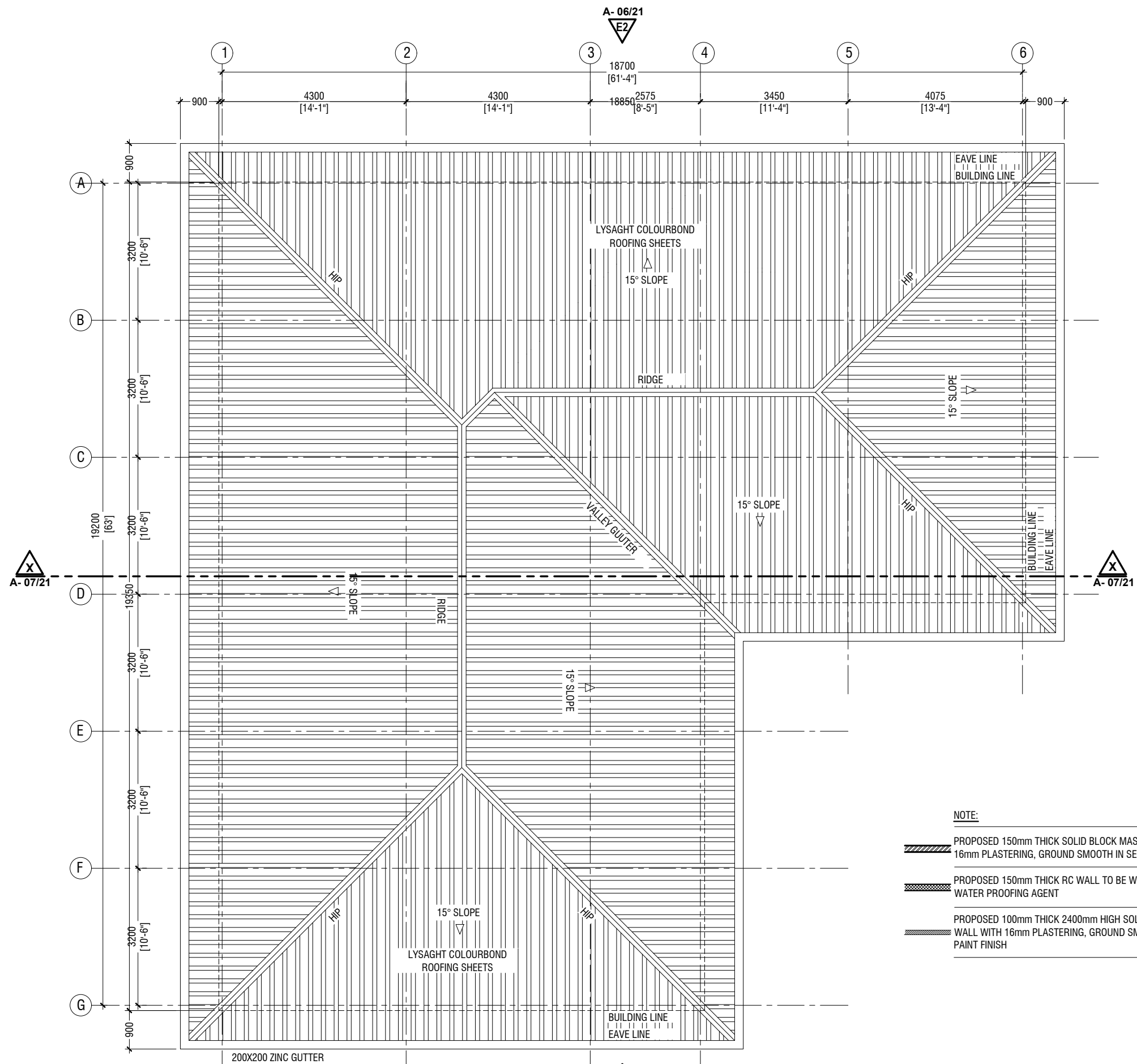
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Title: Third Floor Plan

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- 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

A-05/21

## ROOF PLAN

SCALE 1:100



S.Maradhoo School - 12 Classroom (04 Storey)  
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Date: October 2019

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Services : Aishath Ahmed  
Interior : -

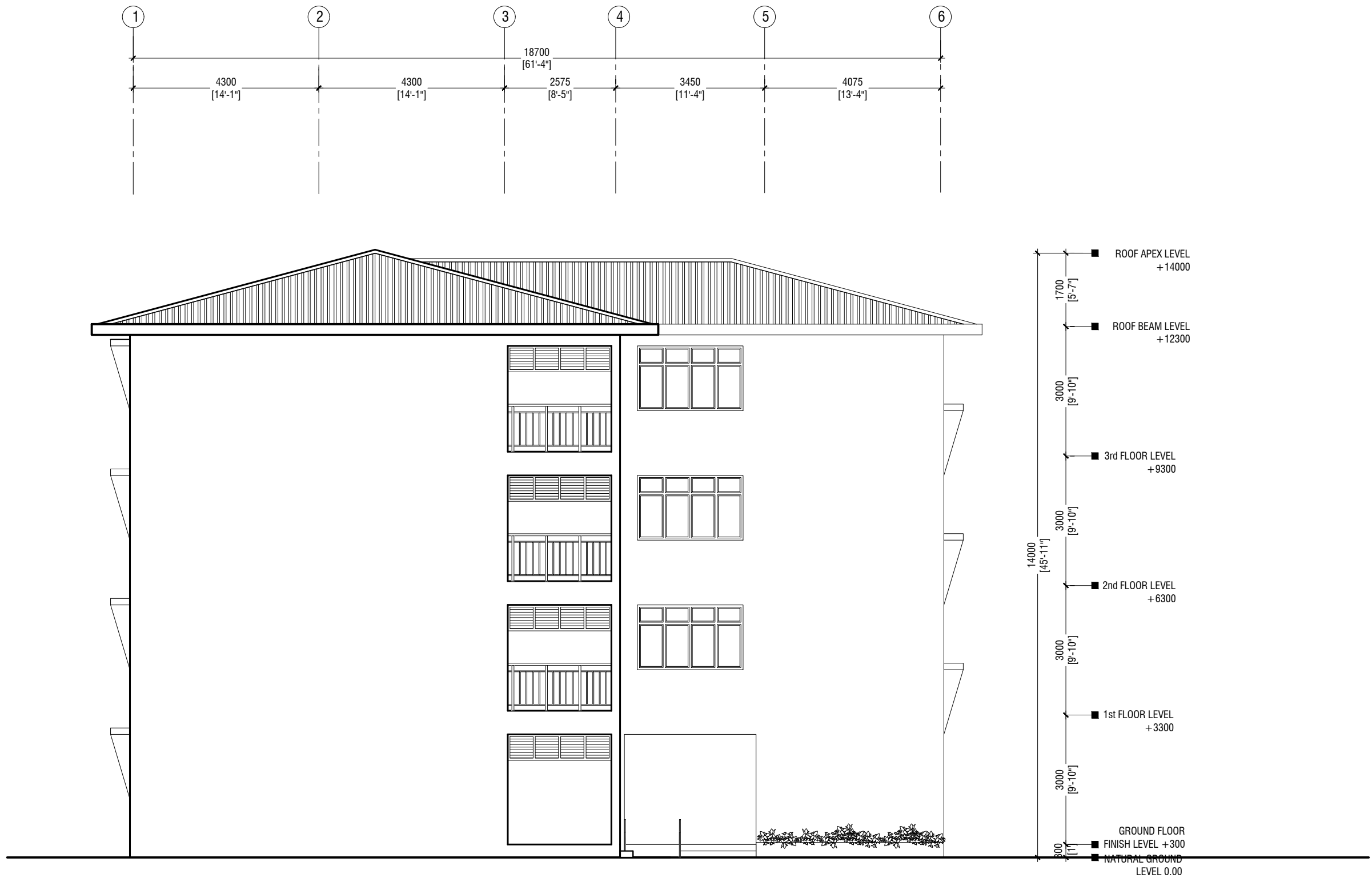
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Title: Roof Plan

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Services : Aishath Ahmed  
Interior : -

Rev no Date

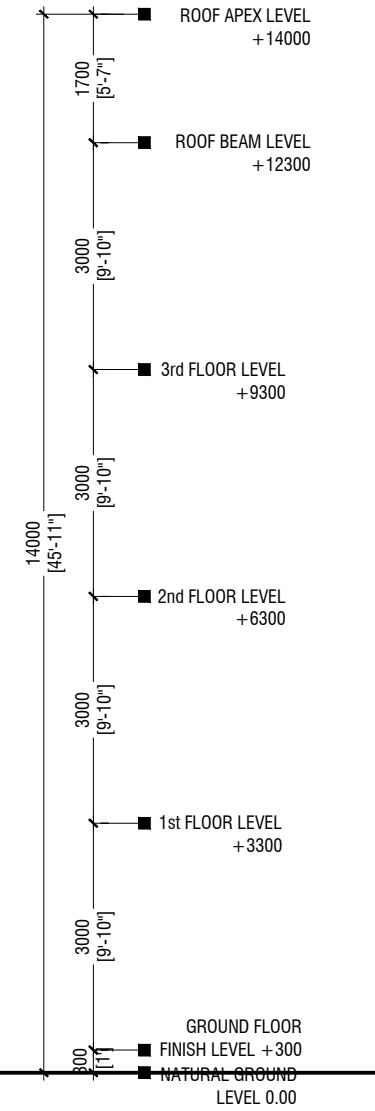
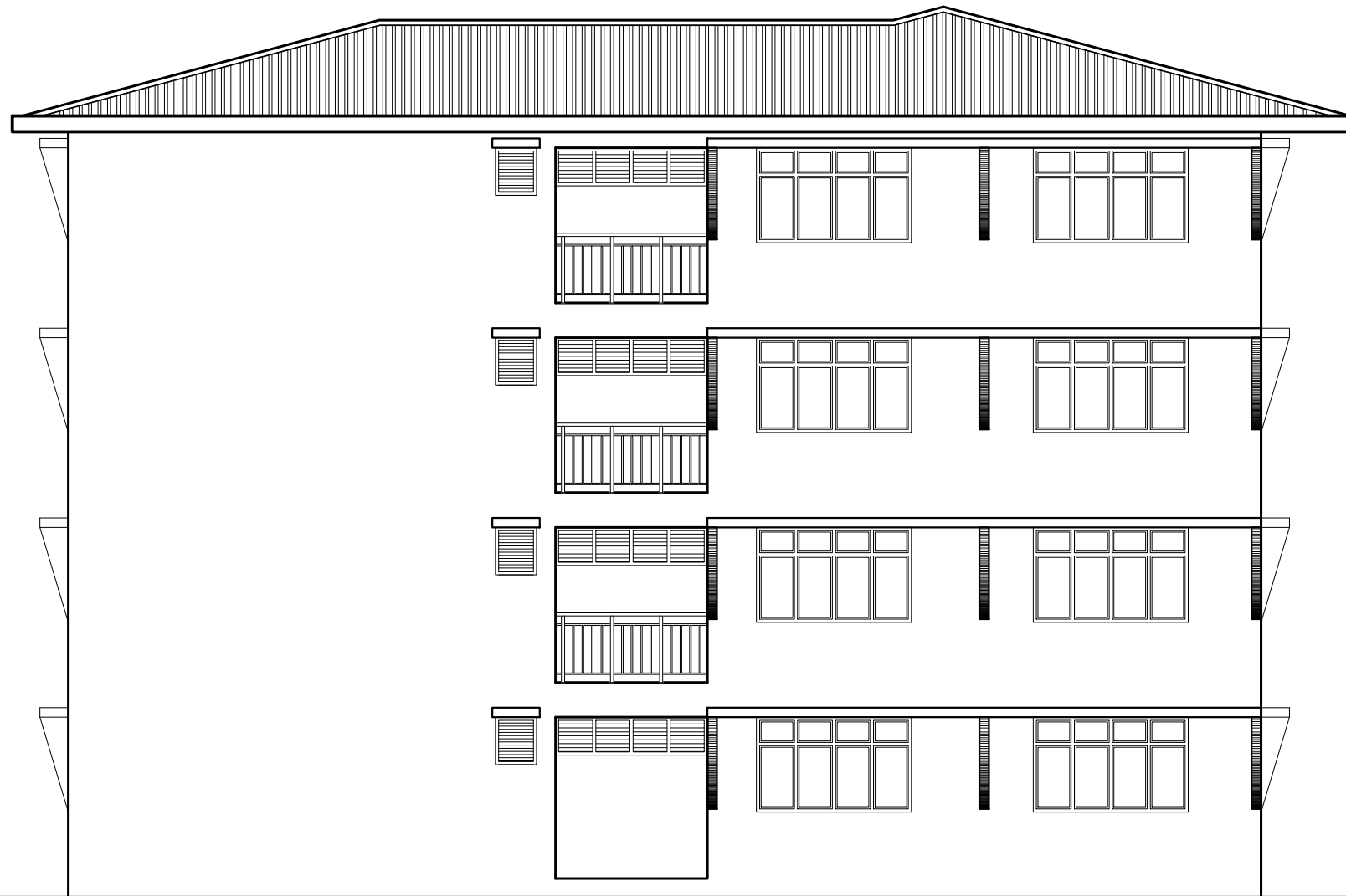
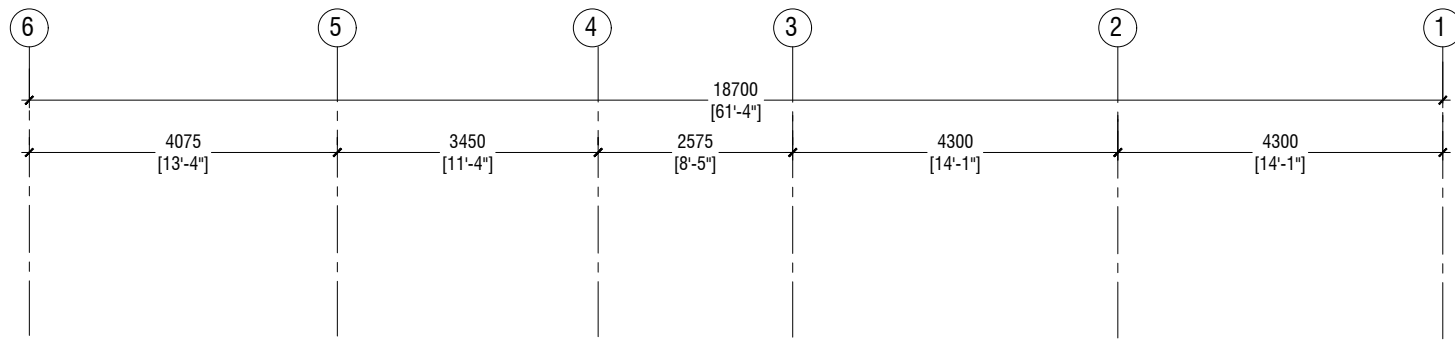
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Title: Elevation E1

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Services : Aishath Ahmed  
Interior : -

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Title: Elevation E2

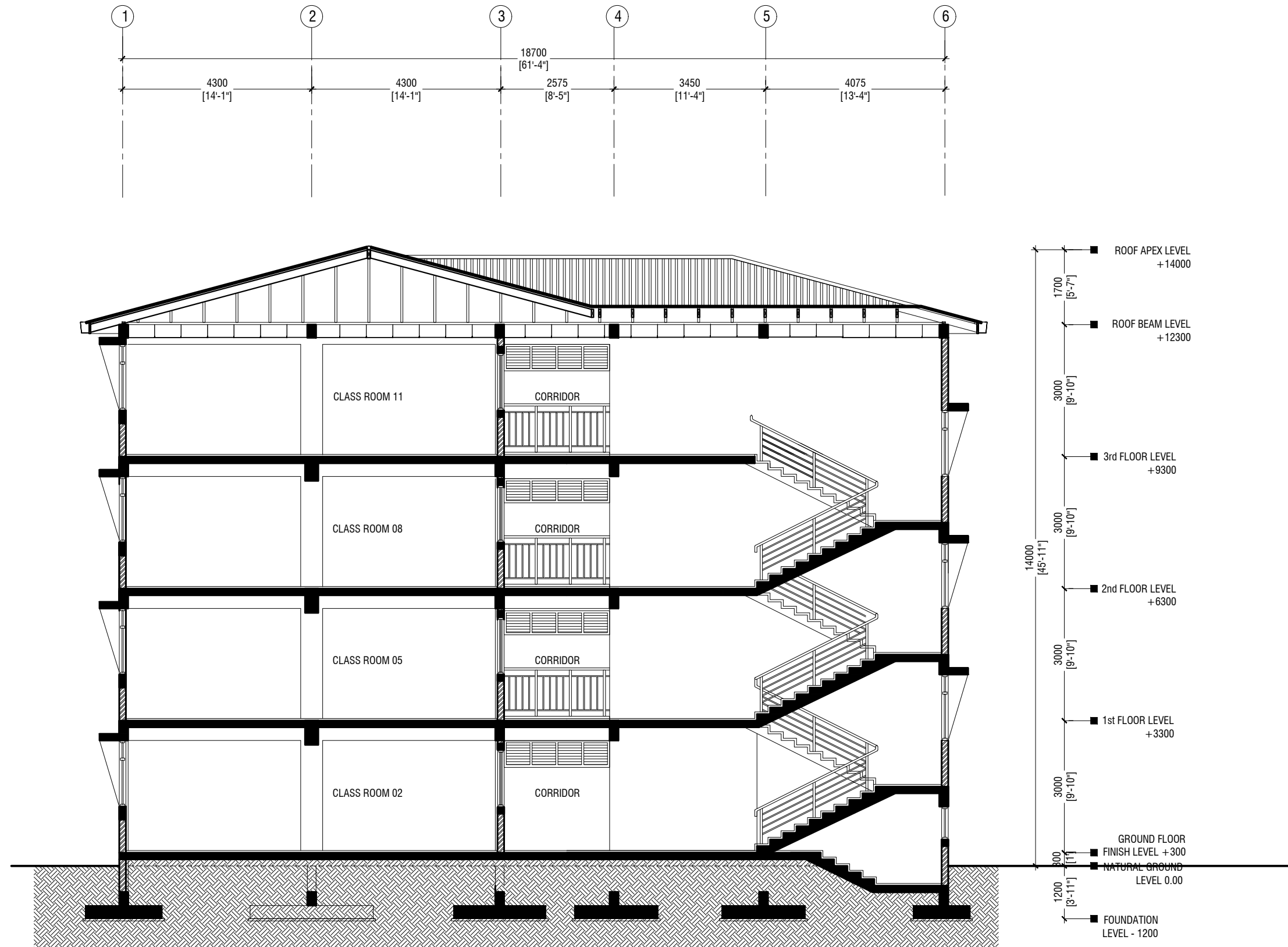
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## ELEVATION - E2

SCALE 1:100







## SECTION X-X

SCALE 1:100



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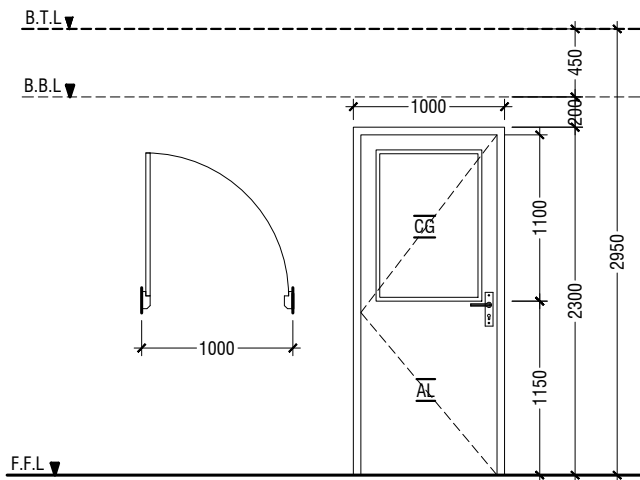
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Services : Aishath Ahmed  
Interior : -

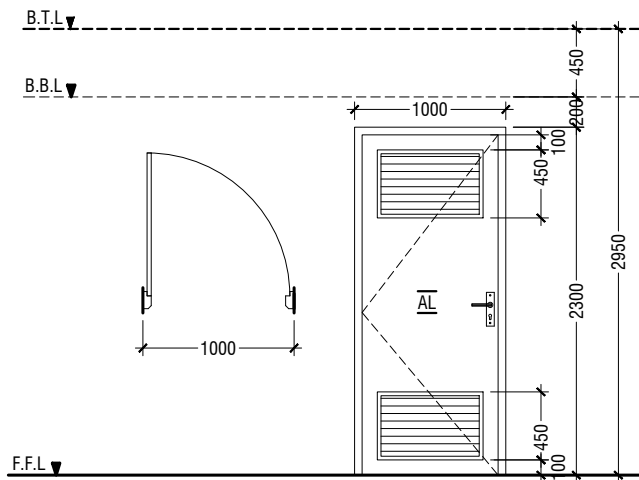
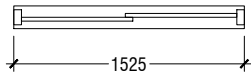
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Title: Section X-X

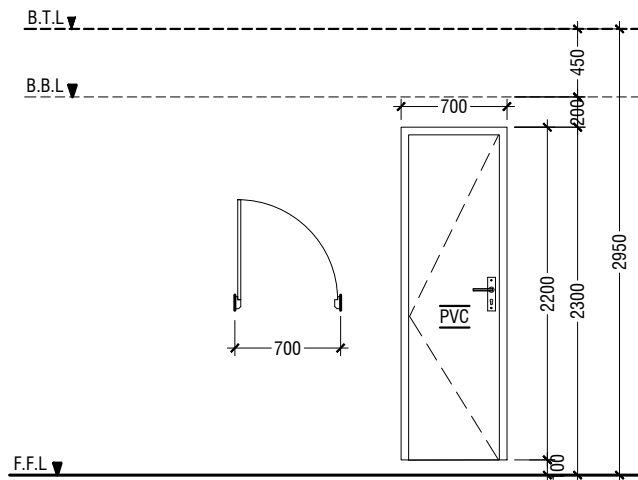
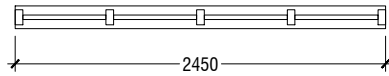
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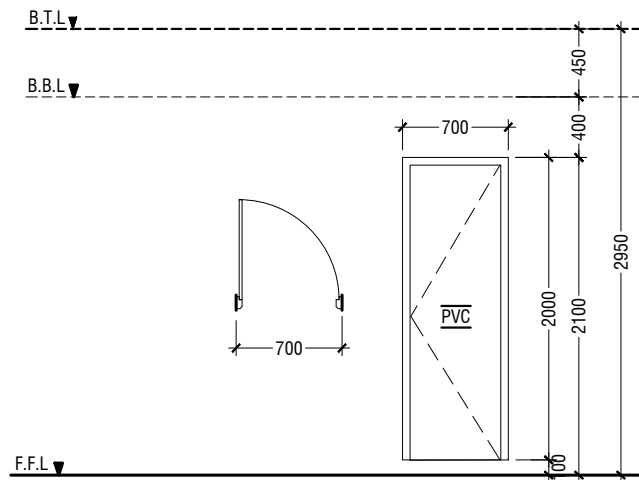
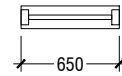
D1	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	24 NOS
OPEN AREA	2.03 sqm



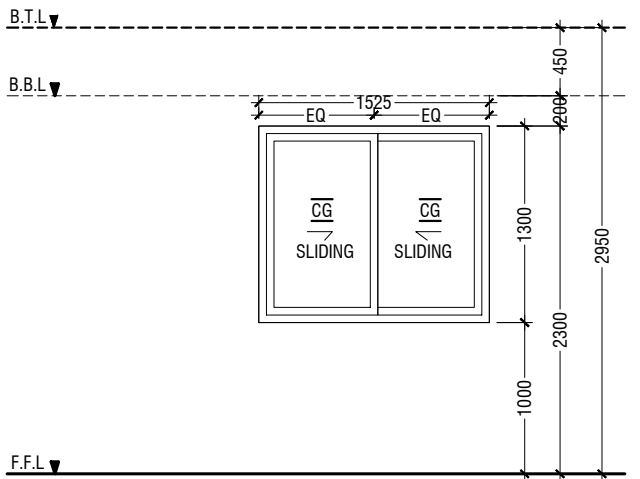
D2	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	09 NOS
OPEN AREA	2.03 sqm



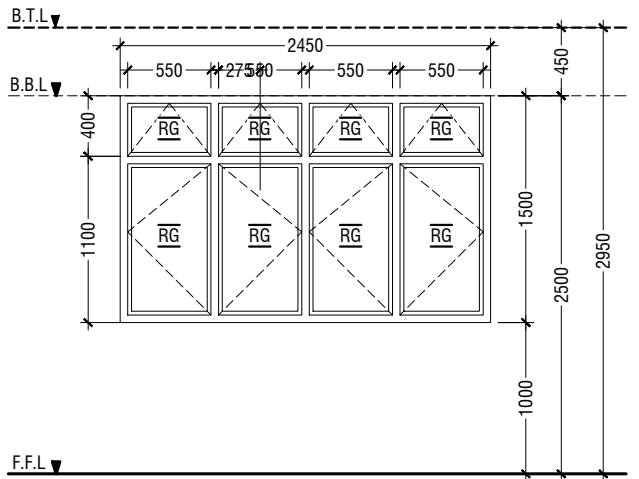
D3	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	STORE & CLEANER CLOSET
QUANTITY	08 NOS
OPEN AREA	1.29 SQM



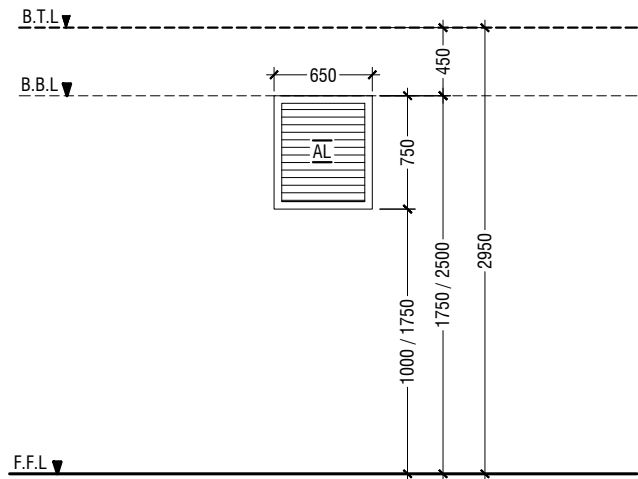
D4	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS STALLS
QUANTITY	16 NOS
OPEN AREA	1.17 SQM



W1	SLIDING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	24 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	39 NOS
OPEN AREA	2.97 sqm



W3	WINDOW WITH ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	13 NOS
OPEN AREA	0.36 SQM

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

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

## DOOR & WINDOW SCHEDULE - 1

SCALE 1:50  
0 0.25 0.5 1 1.5 2 2.5



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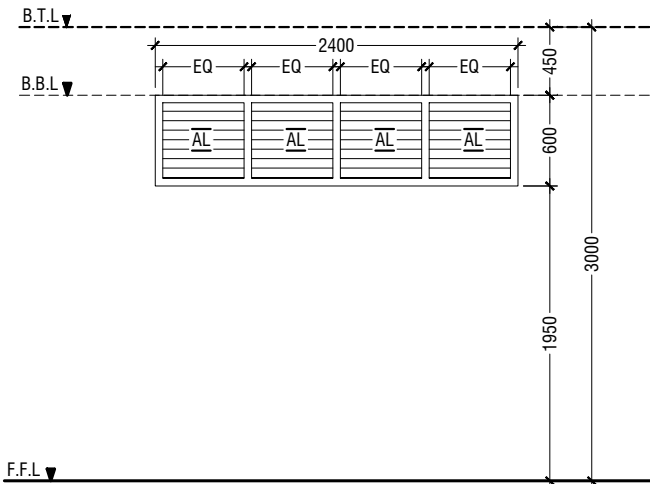
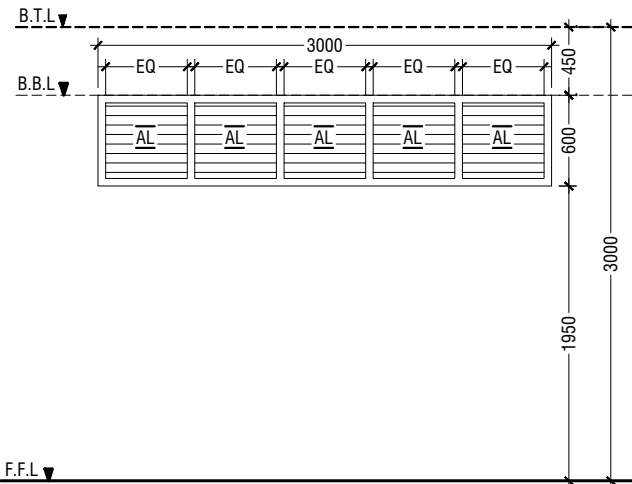
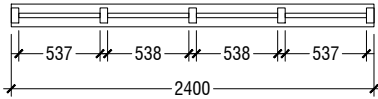
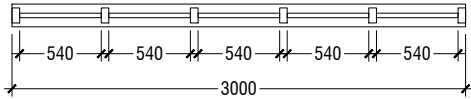
S.Maradhoo School - 12 Classroom (04 Storey)  
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Date: October 2019  
Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

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Title: Door & Window  
Schedule - 1

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V1	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	13 NOS
OPEN AREA	1.35 SQM

V2	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	08 NOS
OPEN AREA	1.08 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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Interior : -

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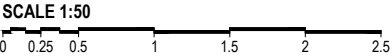
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Schedule - 2

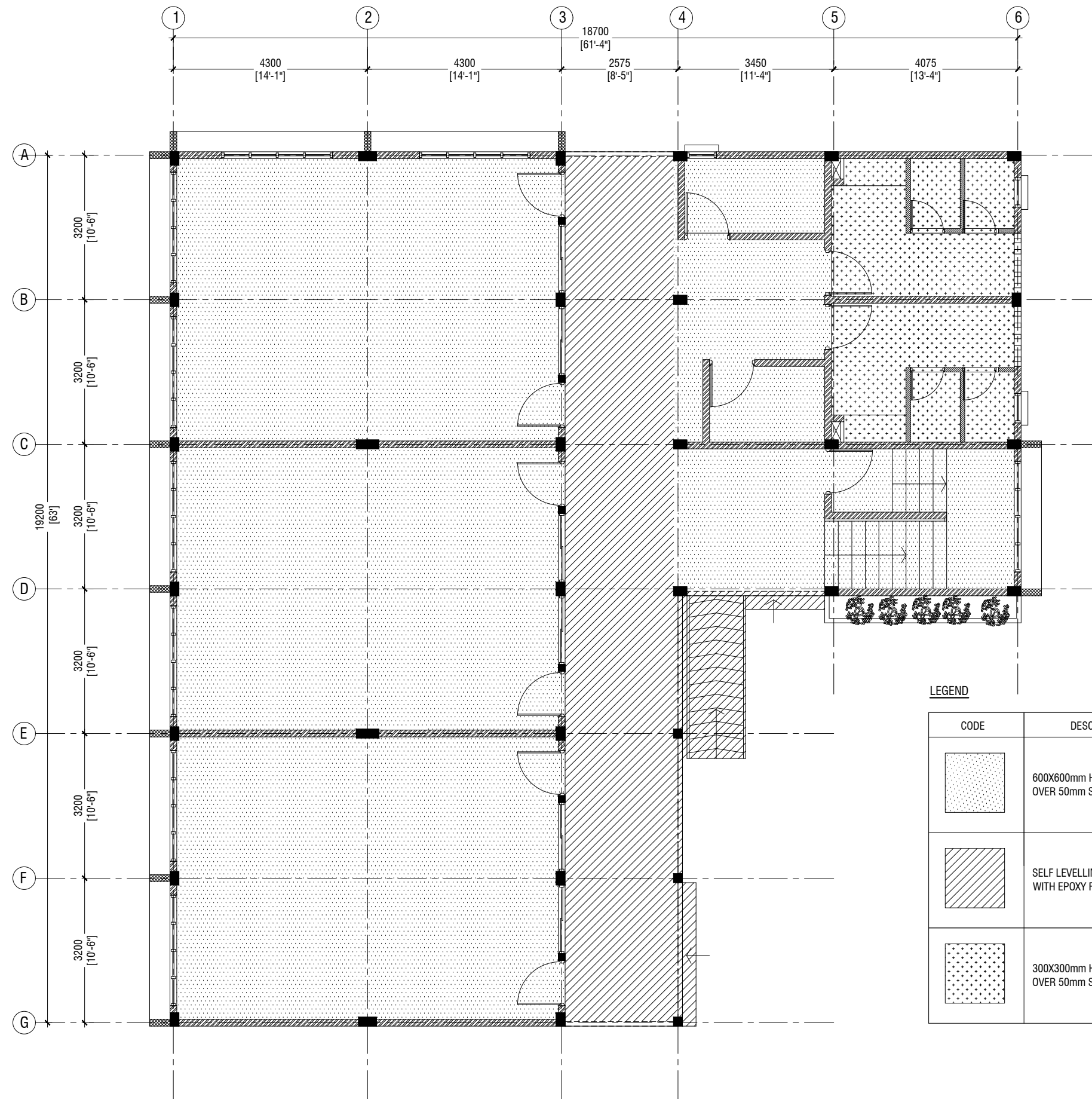
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SCHEDULE OF VENTILATION FOR S.MARADHOO SCHOOL

Room name / Number		Room Areas (sqm) (Specify centre to centre or clear)	Window (Opening) number	Required opening areas (sqm)	Designed opening areas	Open %
Ground Floor						
1	Classroom 1	52.81	2D1, 2W1 & 2W2	5.28	11.66	22.08%
2	Classroom 2	52.81	2D1, 2W1 & 2W2	5.28	11.66	22.08%
3	Classroom 3	52.81	2D1, 2W1 & 4W2	5.28	17.60	33.33%
4	Toilet(F)	12.73	W3 & RC FINS			
5	Toilet(M)	9.09	W3 & RC FINS			
6	Toilet for disabled	5.12	Mechanical Ventilation			
7	Main switchboard / store		Mechanical Ventilation			
First to Third Floor						
1	Classroom 1	52.81	2D1, 2W1 & 2W2	5.28	11.66	22.08%
2	Classroom 2	52.81	2D1, 2W1 & 2W2	5.28	11.66	22.08%
3	Classroom 3	52.81	2D1, 2W1 & 4W2	5.28	17.60	33.33%
4	Toilet(F)	12.73	W3 & RC FINS			
5	Toilet(M)	9.09	W3 & RC FINS			
6	Toilet for disabled	5.12	Mechanical Ventilation			
7	Main switchboard / store	4.64	Mechanical Ventilation			

VENTILATION SCHEDULE





#### 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

## GROUND FLOOR FINISHES PLAN

SCALE 1:100



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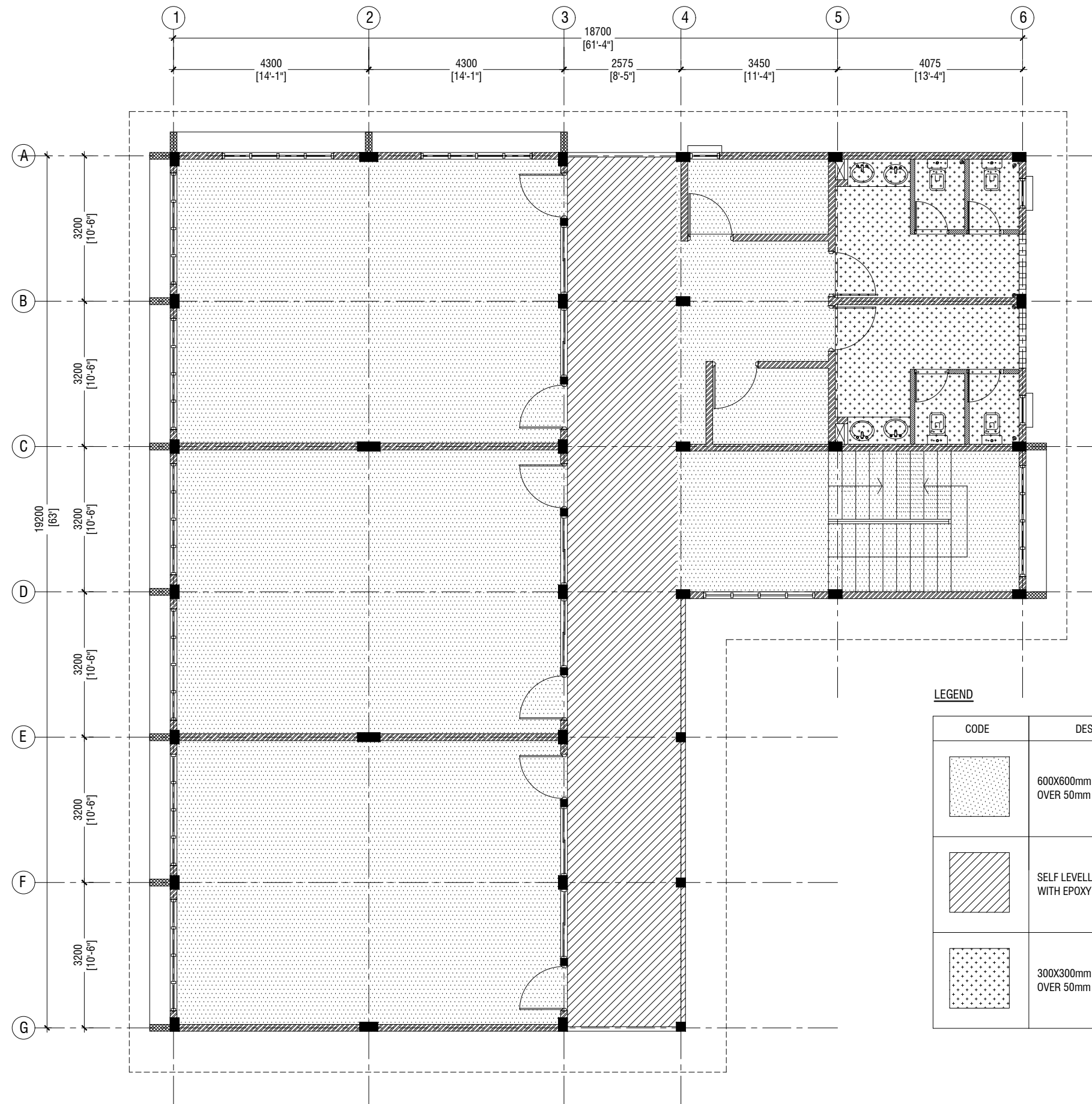
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Services : Aishath Ahmed  
Interior : -

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Title: Ground Floor  
Finishes Plan

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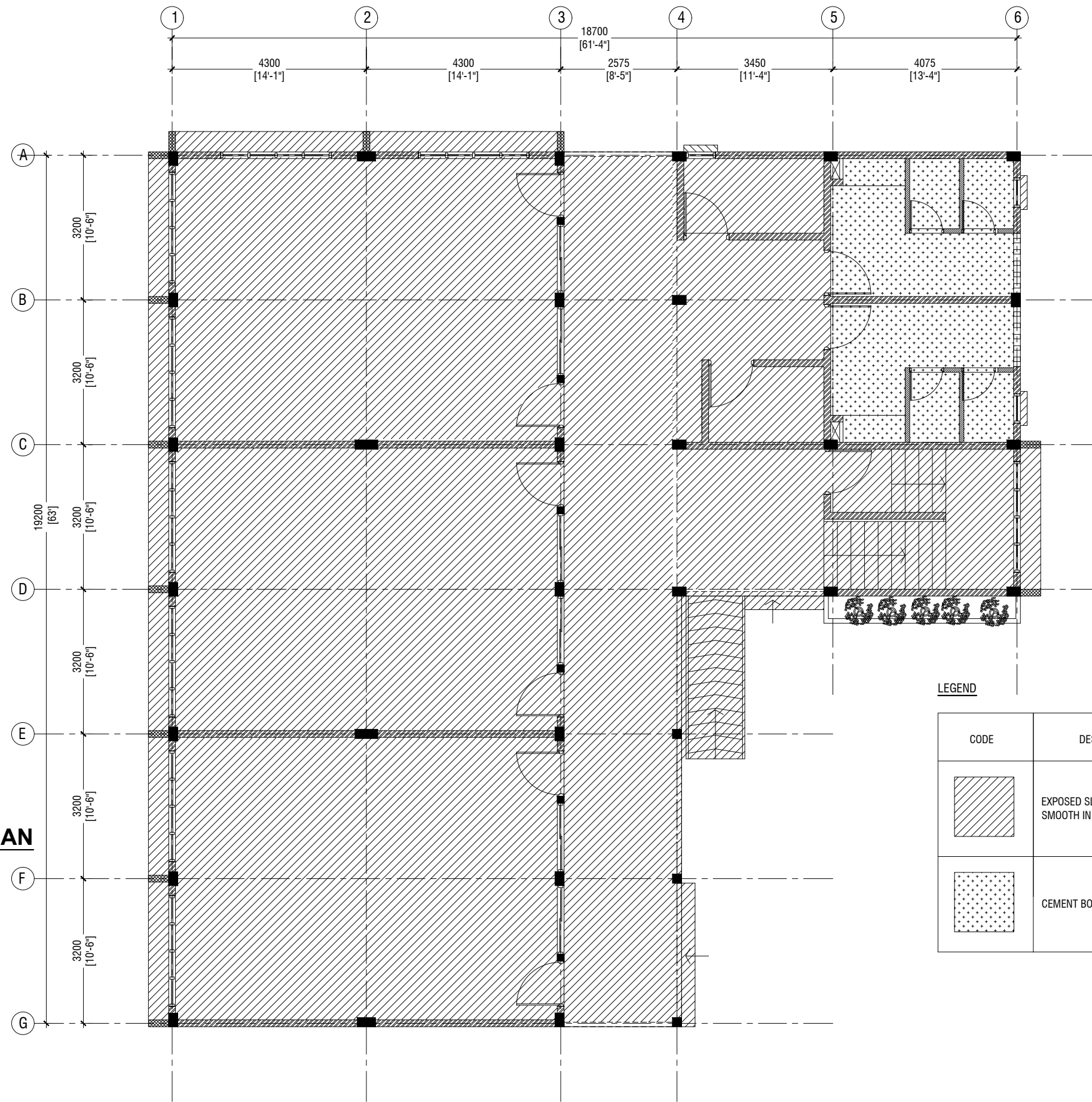
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Services : Aishath Ahmed  
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Title: First - Third  
Floor Finishes Plan

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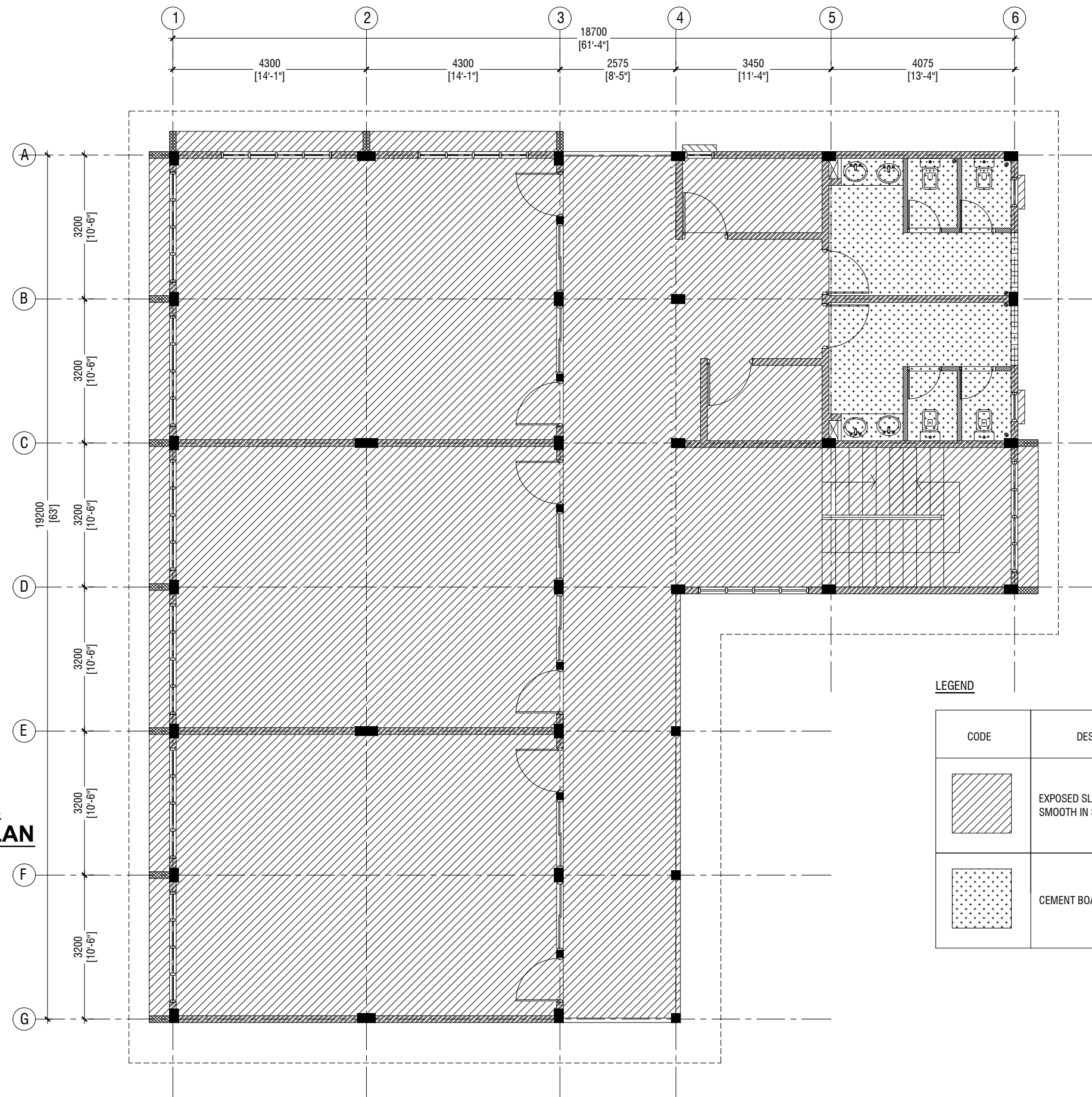
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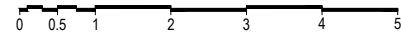
Title: Ground Floor Reflected Ceiling Plan

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# **FIRST - SECOND FLOOR REFLECTED CEILING PLAN**

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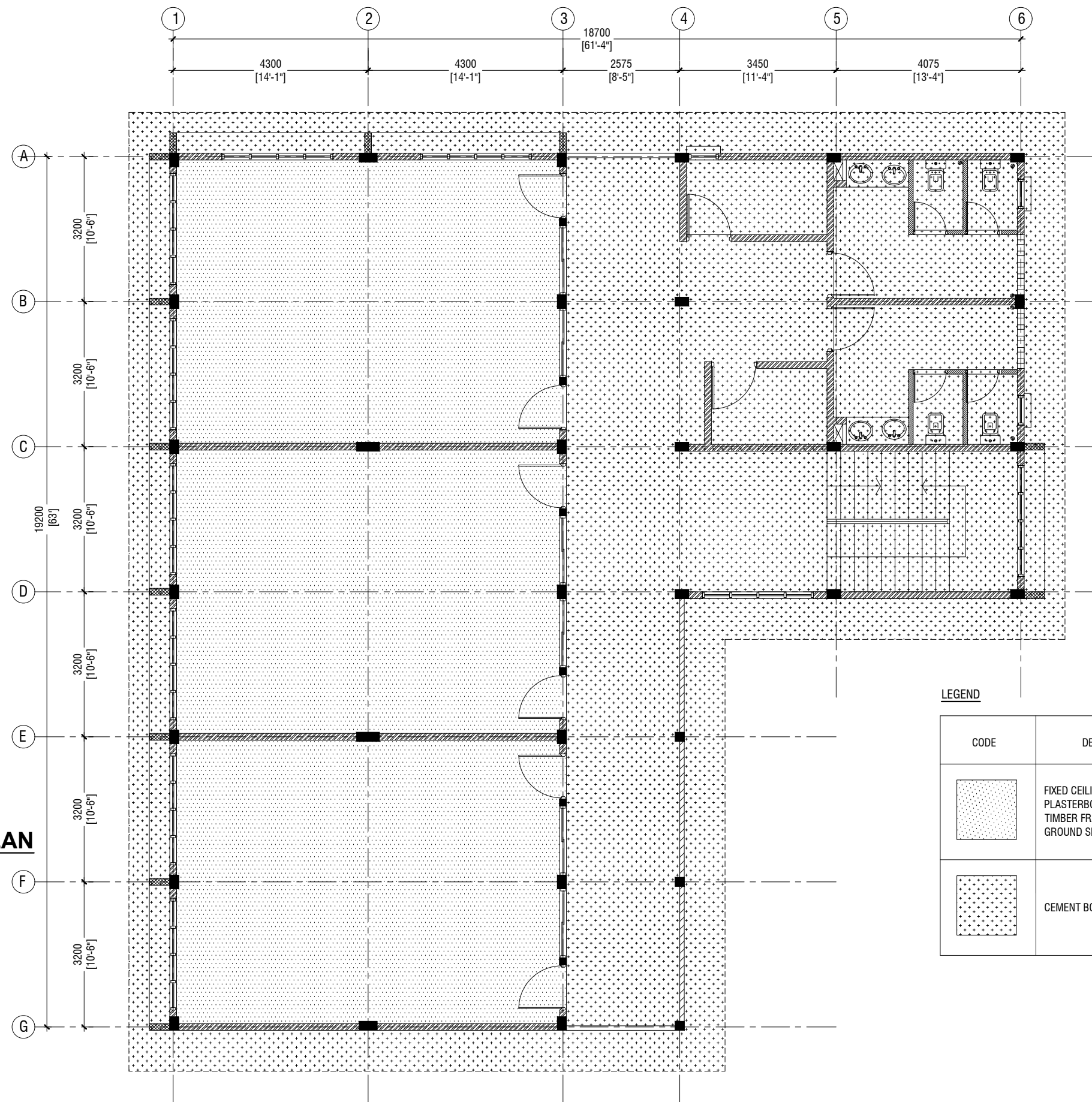
Architect : Razana Amir  
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Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

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Title: First - Second  
Reflected Ceiling Plan

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# **THIRD FLOOR REFLECTED CEILING PLAN**

SCALE 1:100



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S.Maradhoo School - 12 Classroom (04 Storey)  
Client: Ministry of Education

Project Number: RI/2017/012  
Date: October 2019

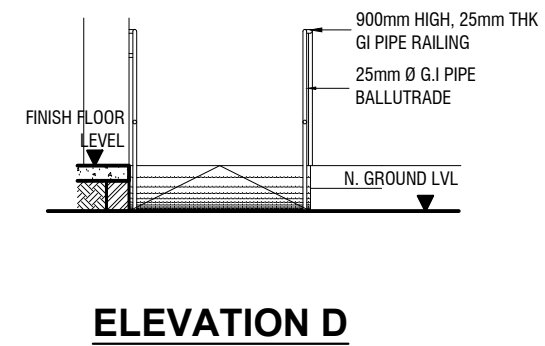
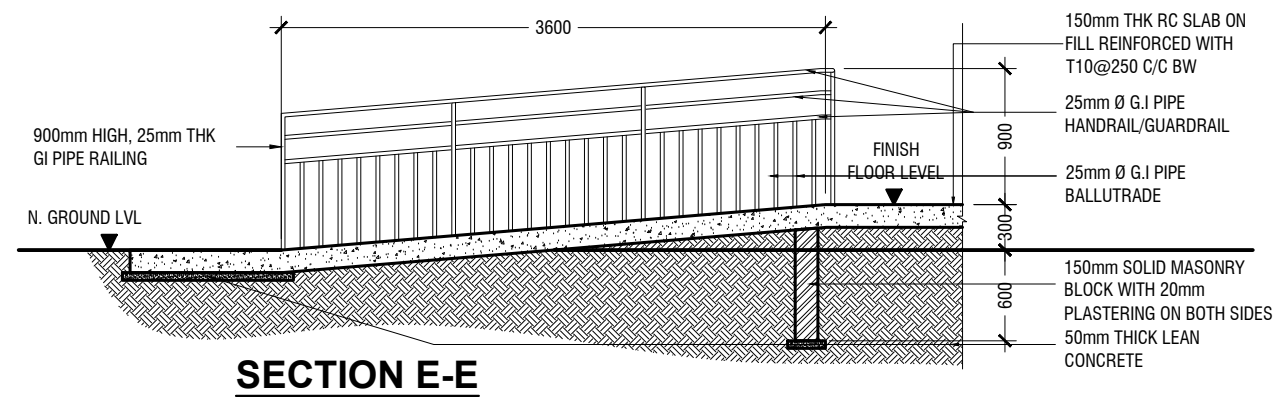
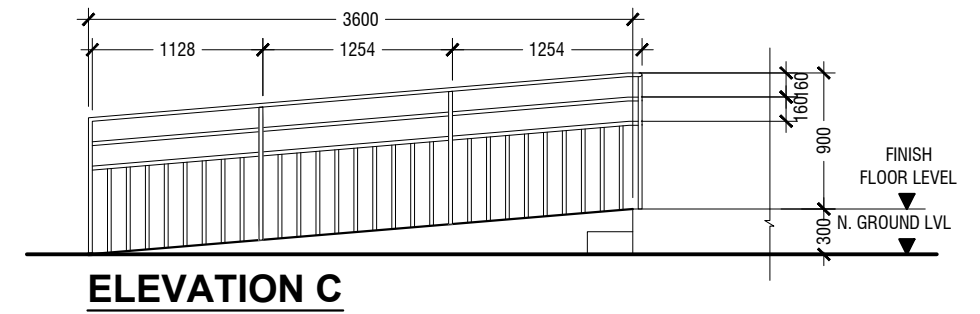
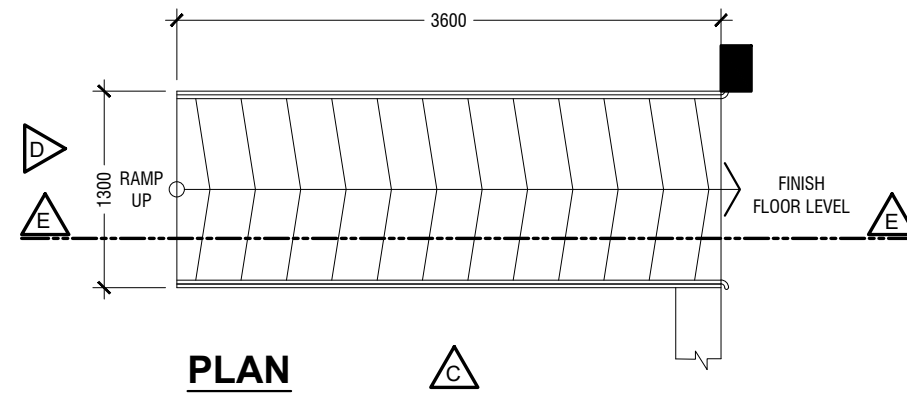
Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

Rev no	Date
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Title: Third Floor  
Reflected Ceiling Plan

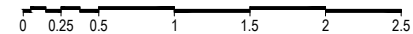
Page: A-15/21





## MAIN ENTRANCE RAMP DETAILS

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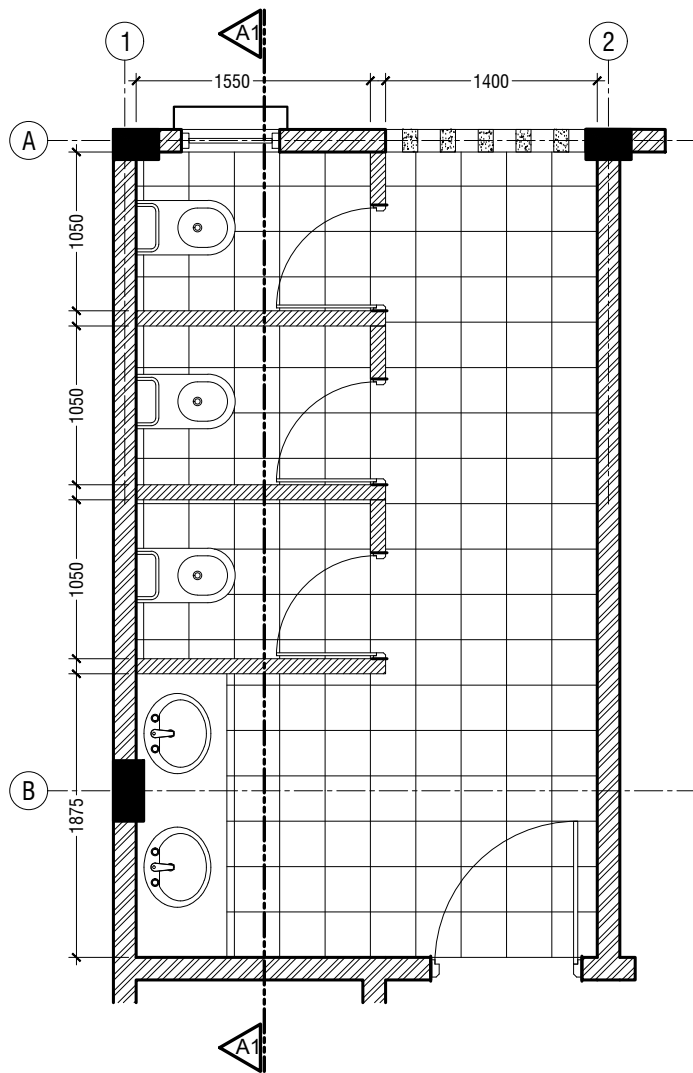
Project Number: RI/2017/012  
Date: October 2019

Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

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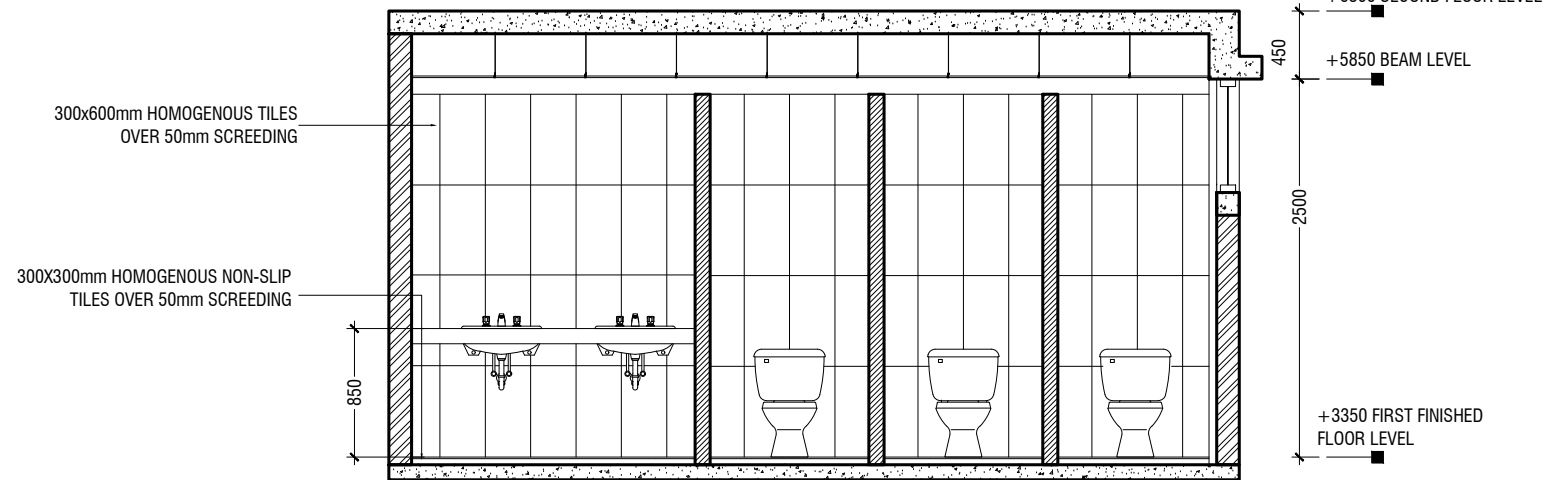
Title: Main Entrance Ramp  
Details

Page: A-17/21



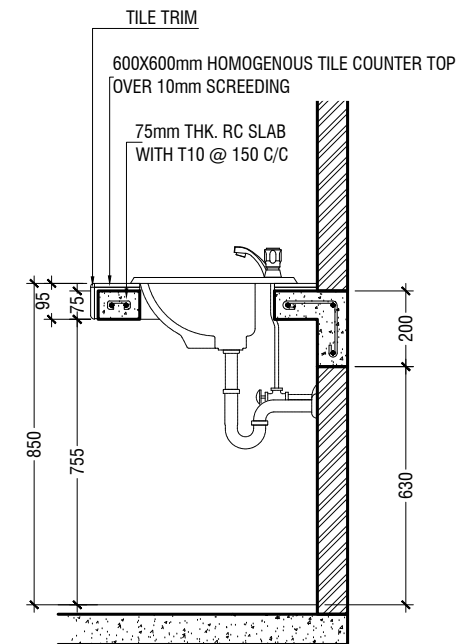
**TYPICAL TOILET PLAN**

SCALE 1:50



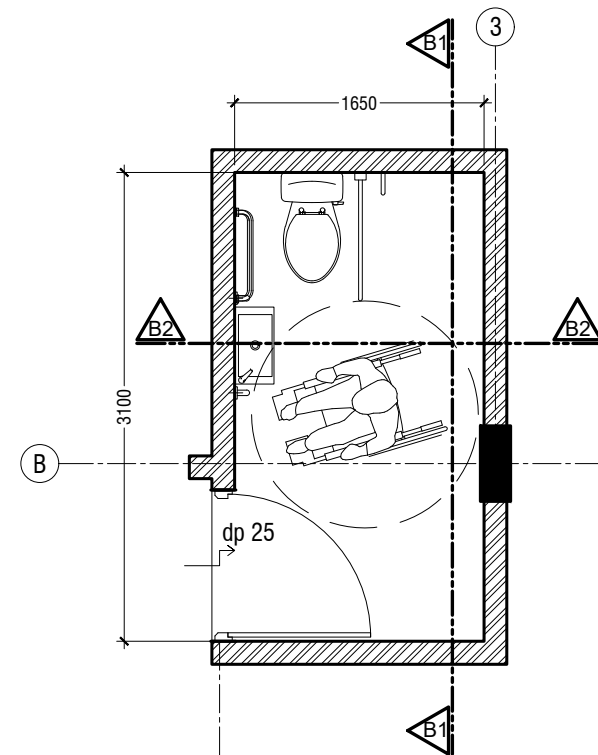
**SECTION A1-A1**

SCALE 1:50



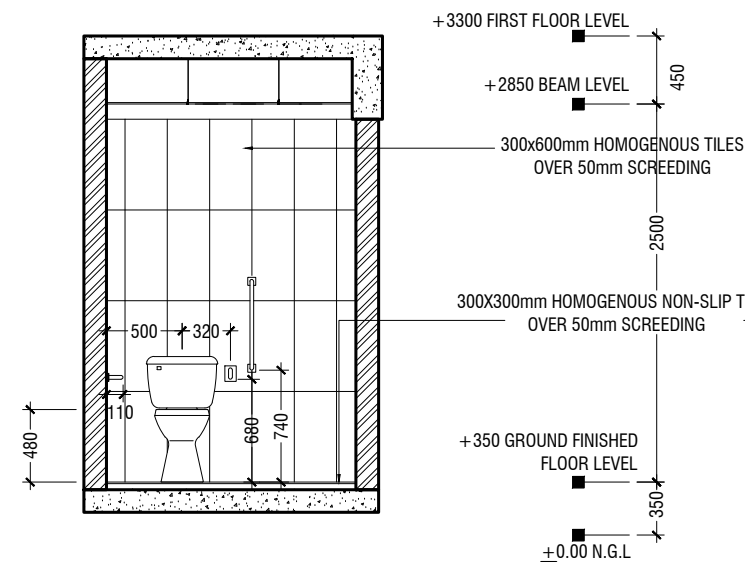
**COUNTER TOP DETAILS**

SCALE 1:20



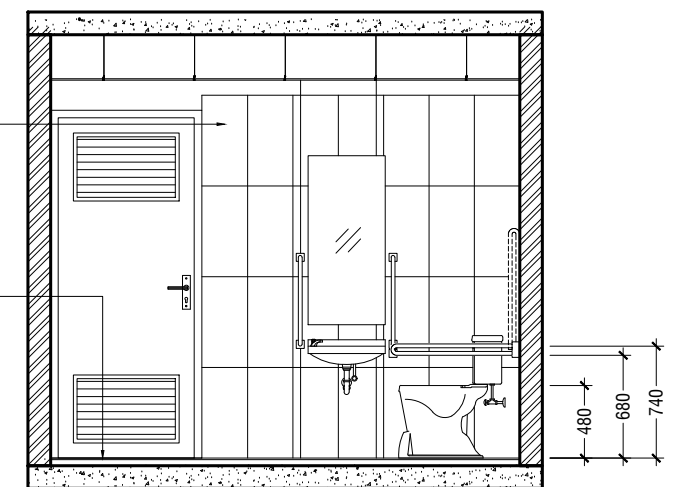
**TOILET FOR PERSONS WITH DISABILITIES PLAN**

SCALE 1:50



**SECTION B1-B1**

SCALE 1:50



**SECTION B2-B2**

SCALE 1:50



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Client: Ministry of Education

Project Number: RI/2017/012  
Date: October 2019

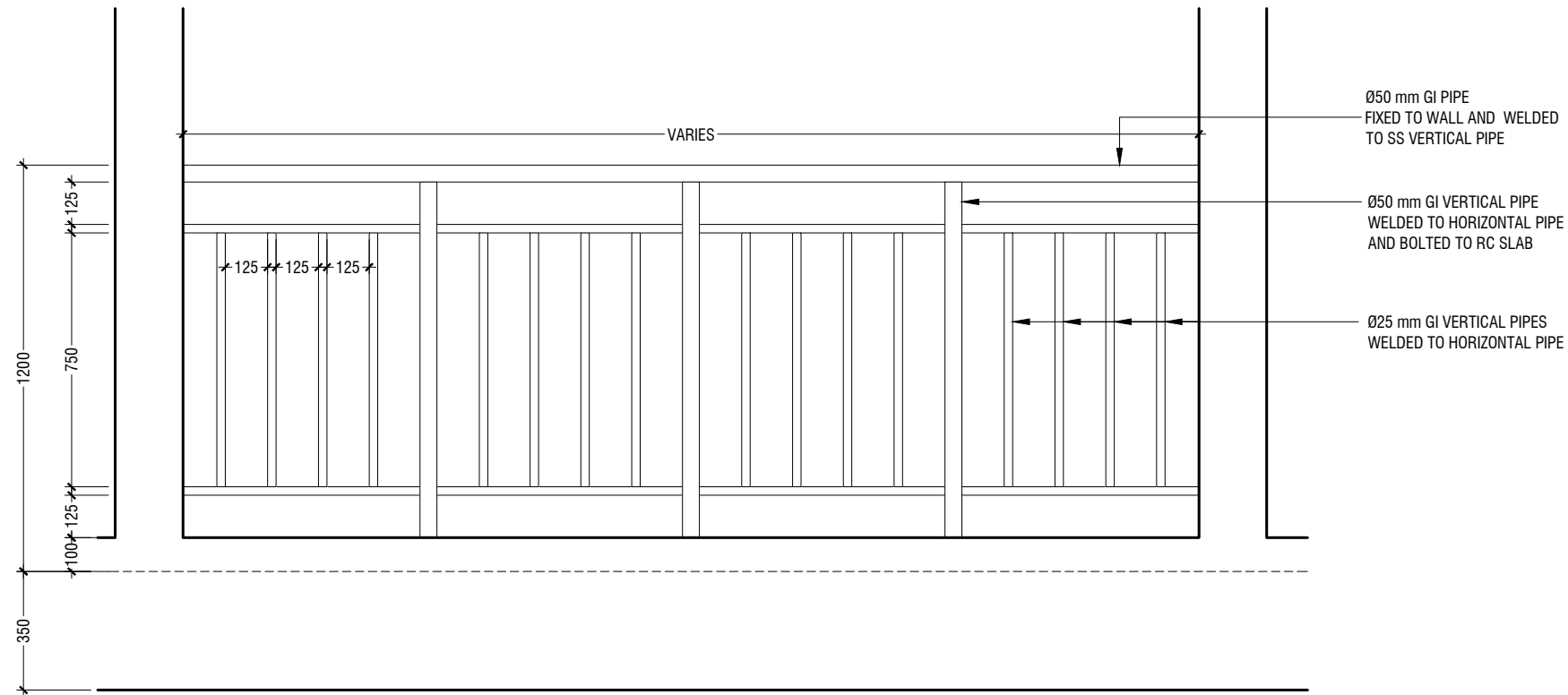
Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

Rev no	Date
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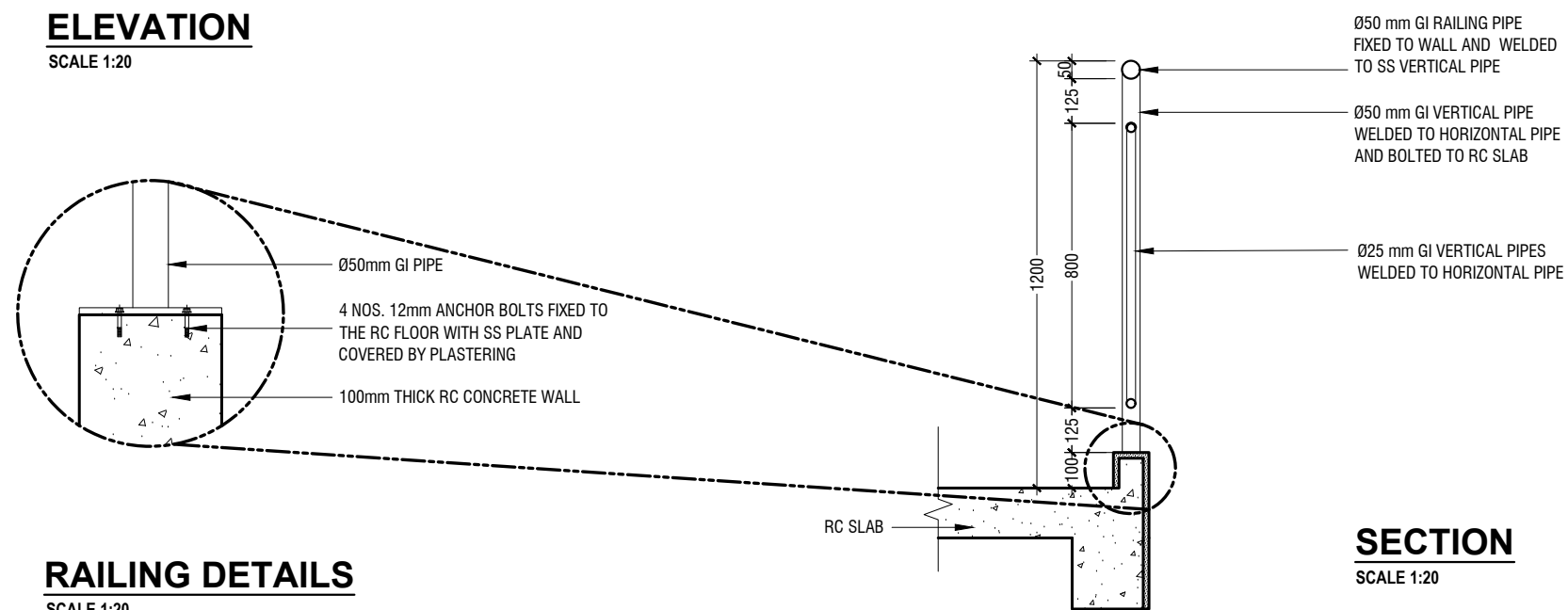
Title: Toilet Details

Page: A-18/21





**ELEVATION**  
SCALE 1:20



**RAILING DETAILS**  
SCALE 1:20

**SECTION**  
SCALE 1:20



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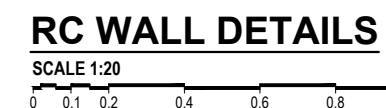
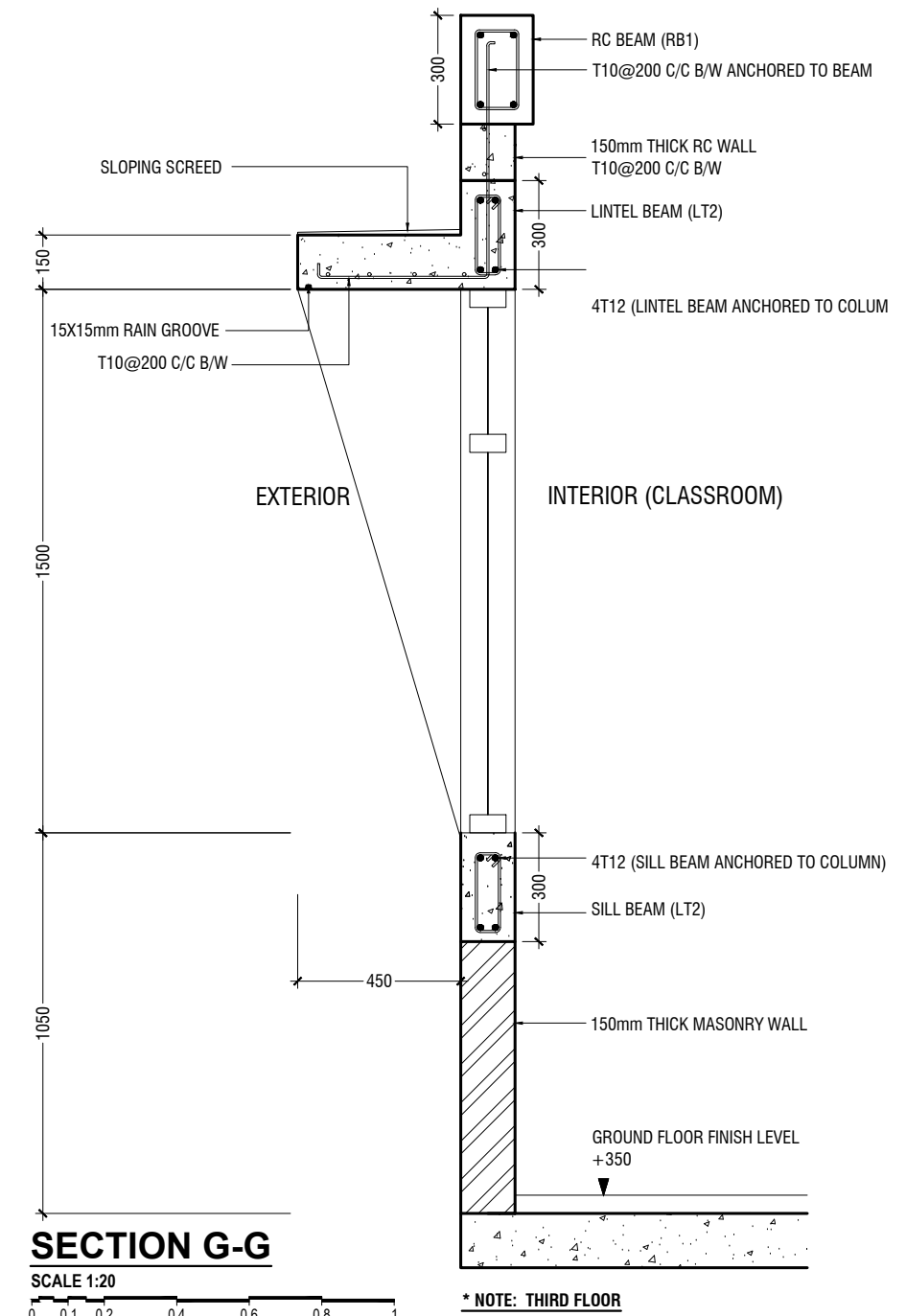
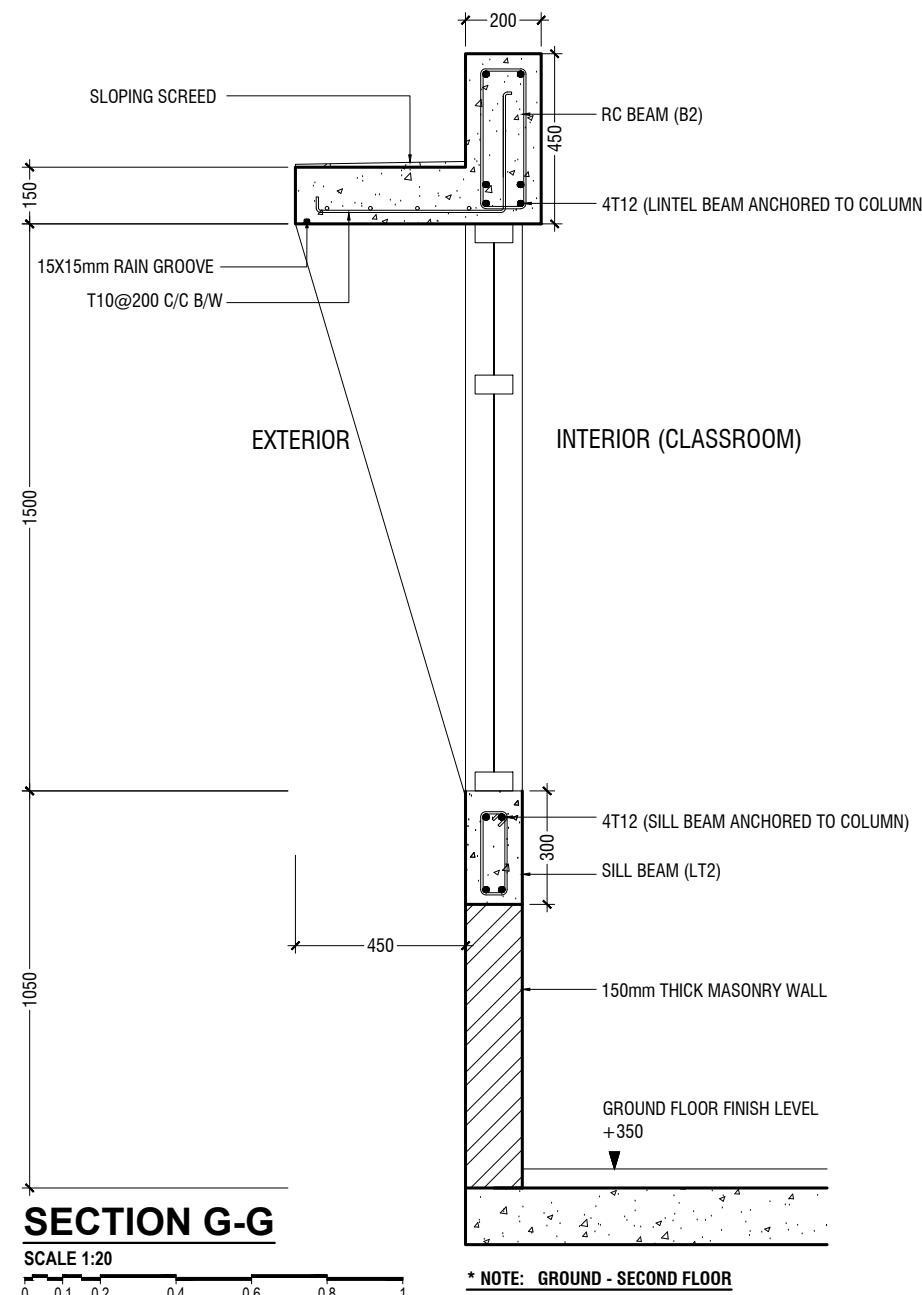
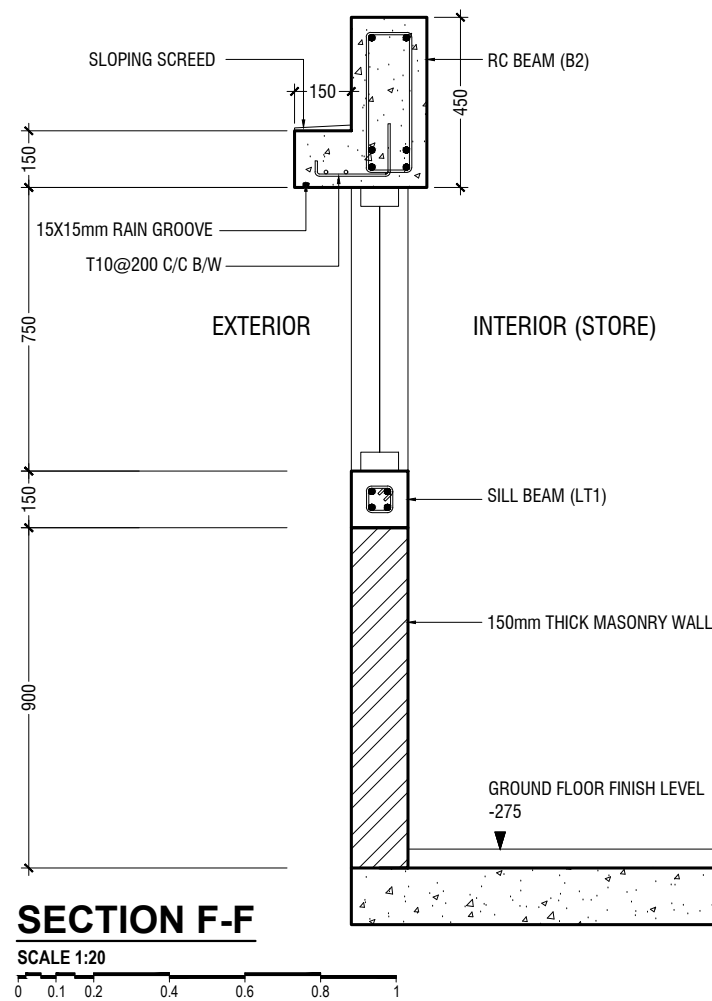
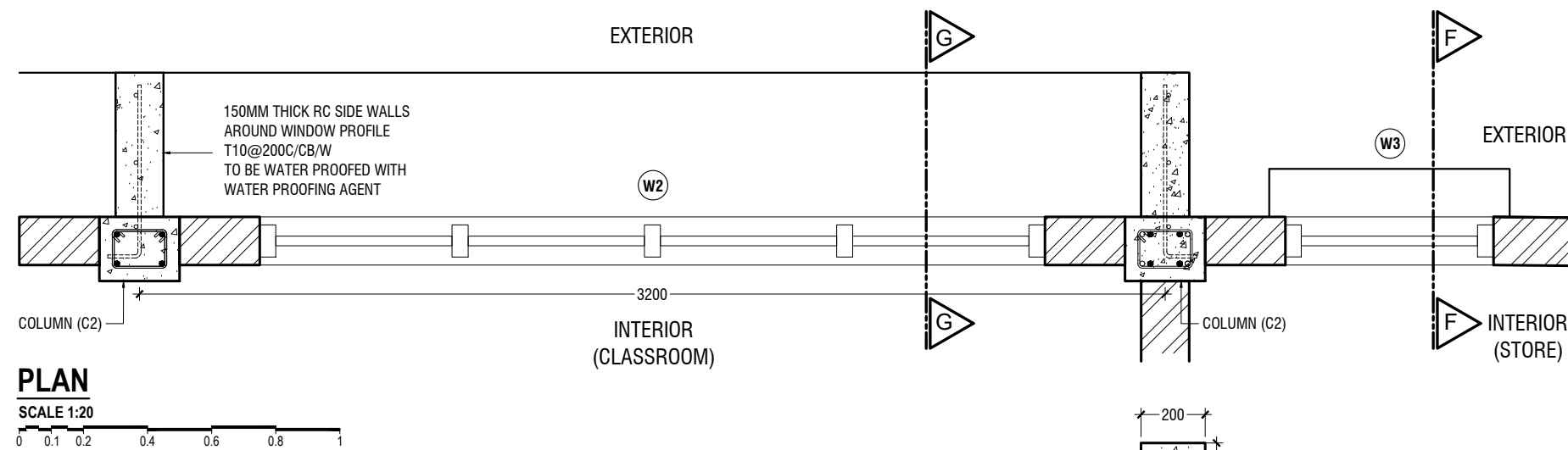
S.Maradhoo School - 12 Classroom (04 Storey)  
Client: Ministry of Education

Project Number: RI/2017/012  
Date: October 2019  
Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

Rev no	Date
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Title: Railing Details

Page: A-20/21



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Client: Ministry of Education

Project Number: RI/2017/012  
Date: October 2019  
Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

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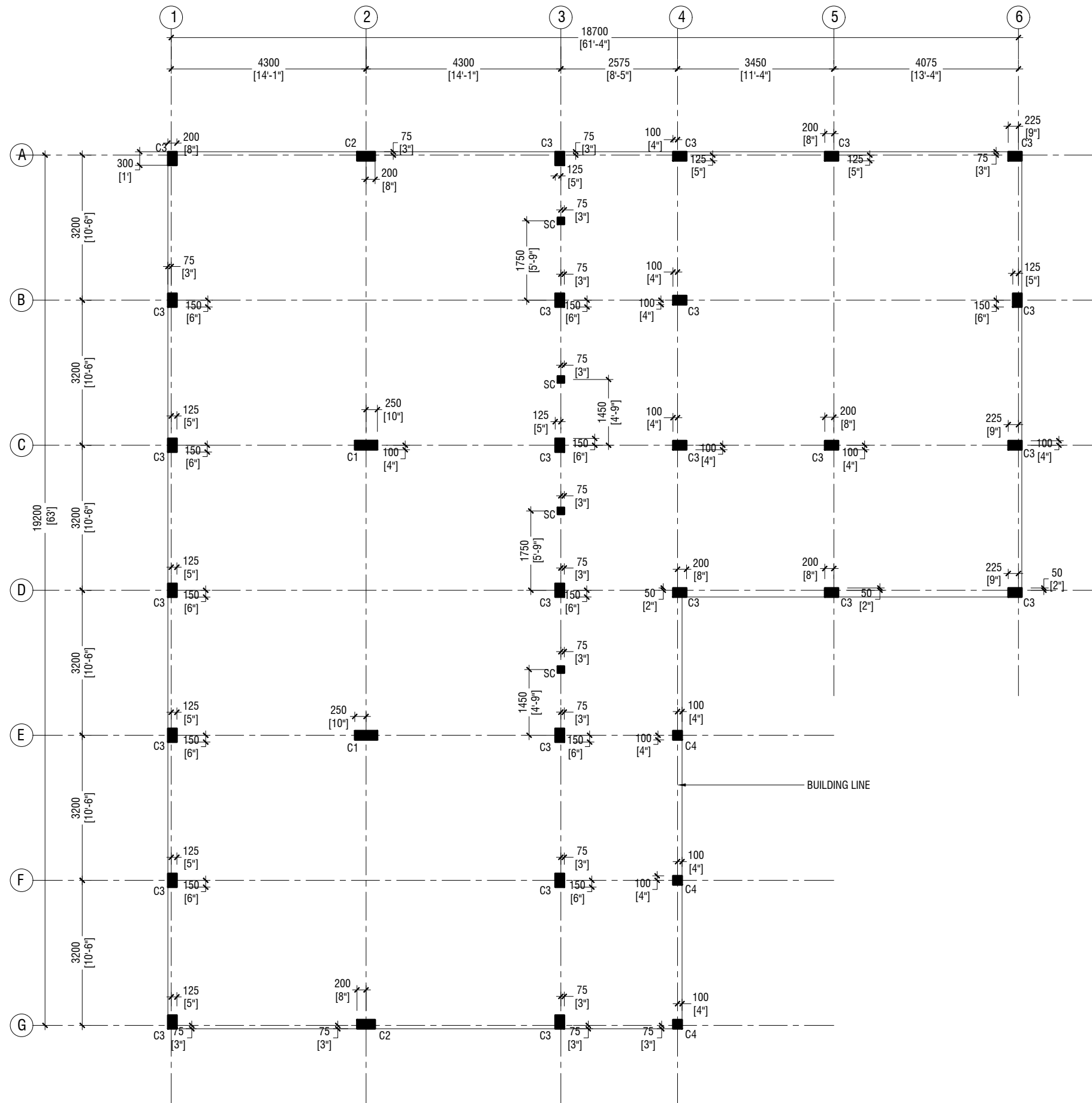
Title: RC Wall Details

Page: A-21/21









## FIRST - THIRD FLOOR COLUMN LAYOUT PLAN

SCALE 1:100



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Client: Ministry of Education

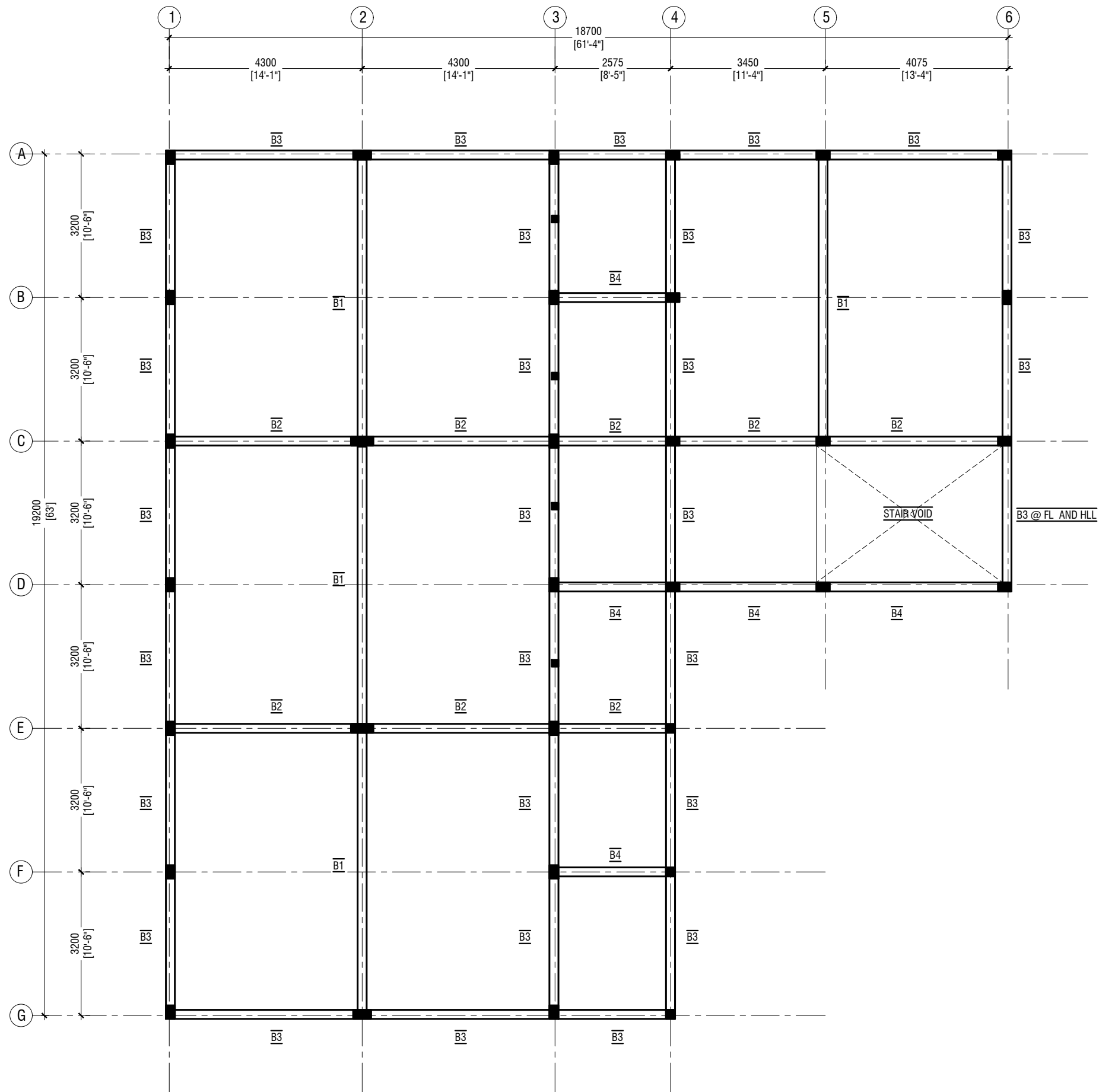
Project Number: RI/2017/012  
Date: October 2019

Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

Rev no	Date
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Title: First - Third Column  
Layout Plan

Page: S-02/08



## FIRST - THIRD FLOOR BEAM PLAN

SCALE 1:100



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Client: Ministry of Education

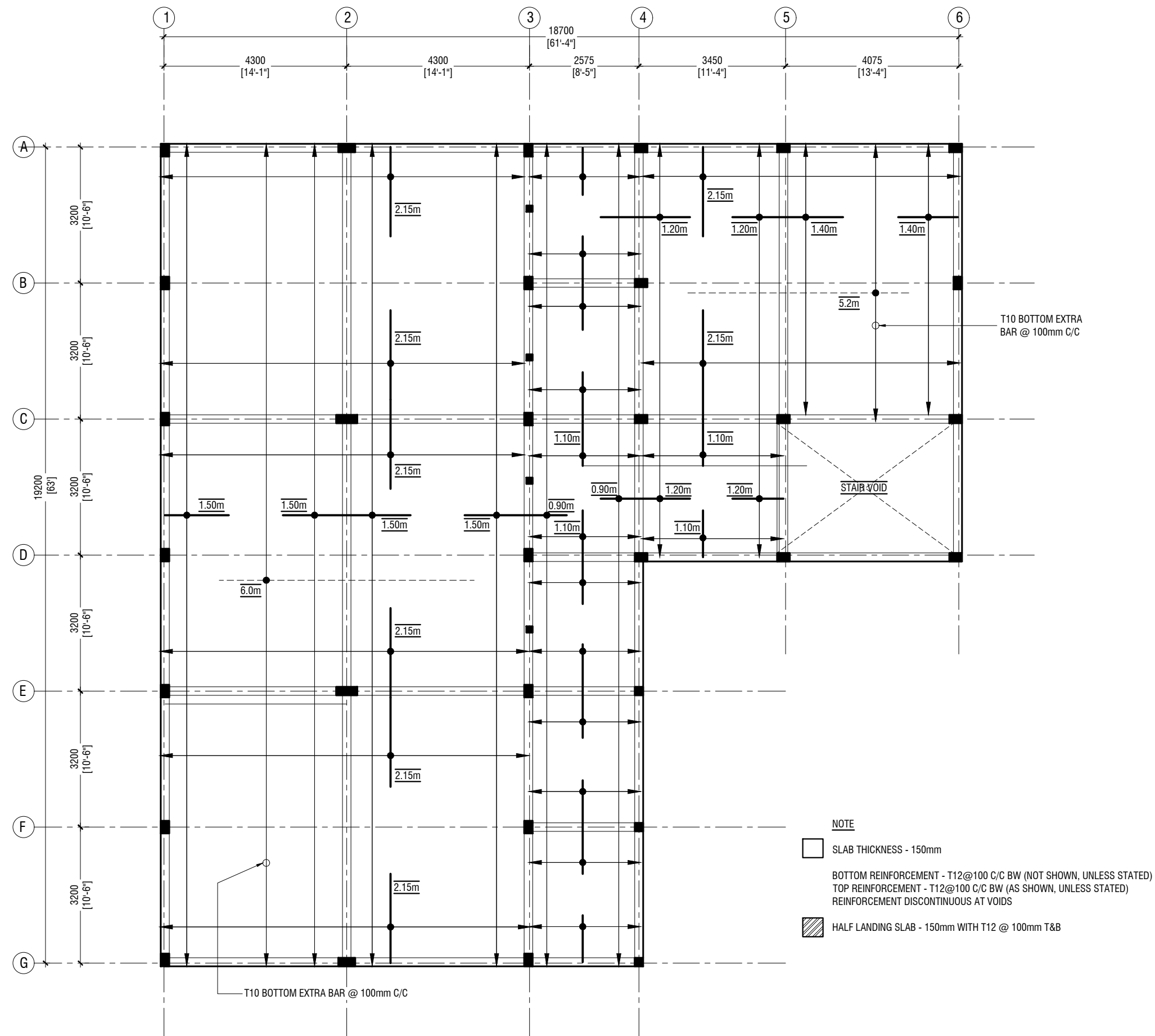
Project Number: RI/2017/012  
Date: October 2019

Architect : Razana Amir  
Engineer : Ahmed Zuhair Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

Rev no	Date
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Title: First-Third Floor  
Beam Plan

Page: S-03/08



## FIRST - THIRD FLOOR SLAB REINFORCEMENT PLAN

SCALE 1:100

0 0.5 1 2 3 4 5



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Client: Ministry of Education

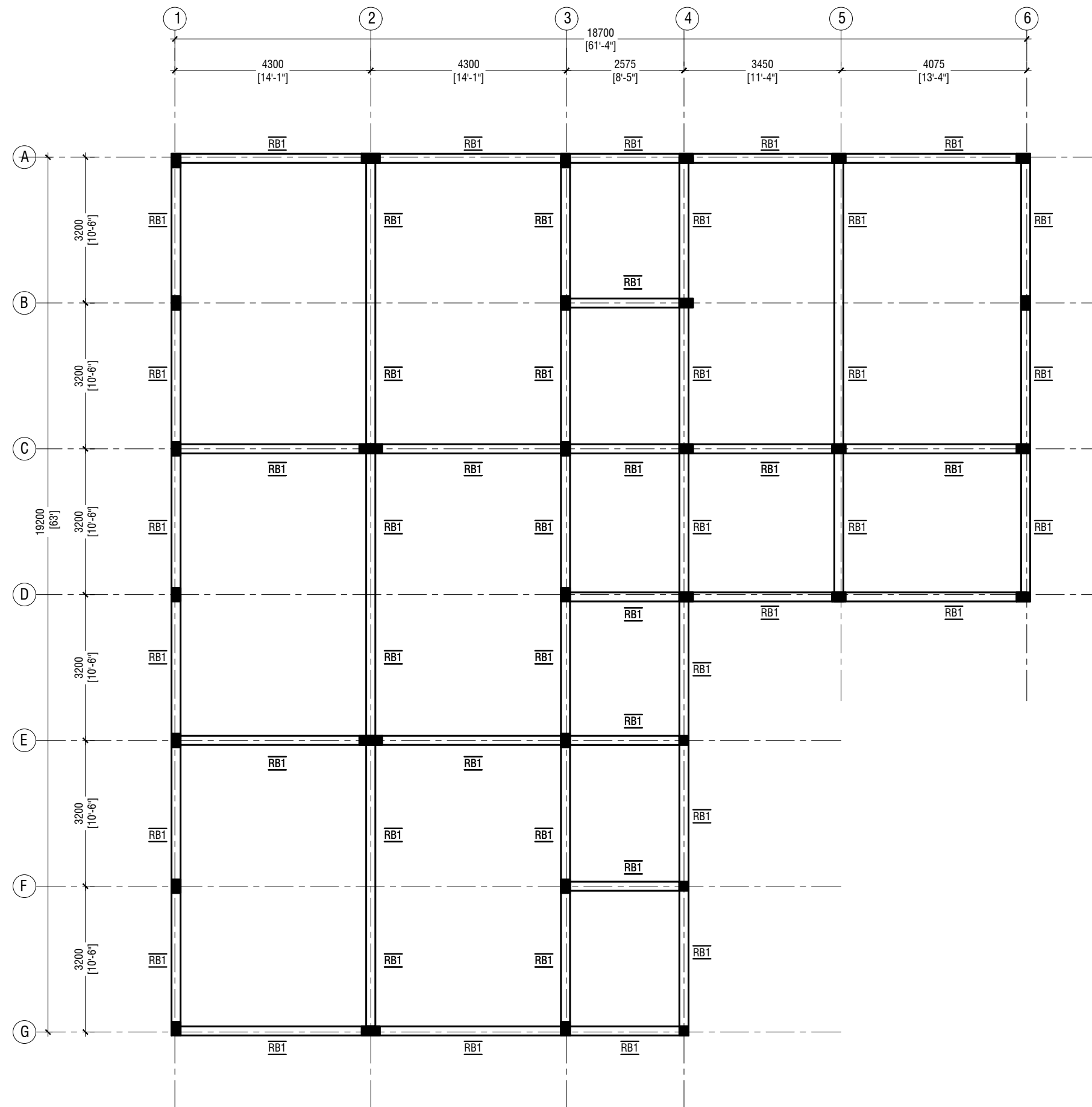
Project Number: RI/2017/012  
Date: October 2019

Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

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Title: First - Third Floor  
Slab Rein. Plan

Page: S-04/08



## ROOF BEAM PLAN

**SCALE 1:100**



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Client: Ministry of Education

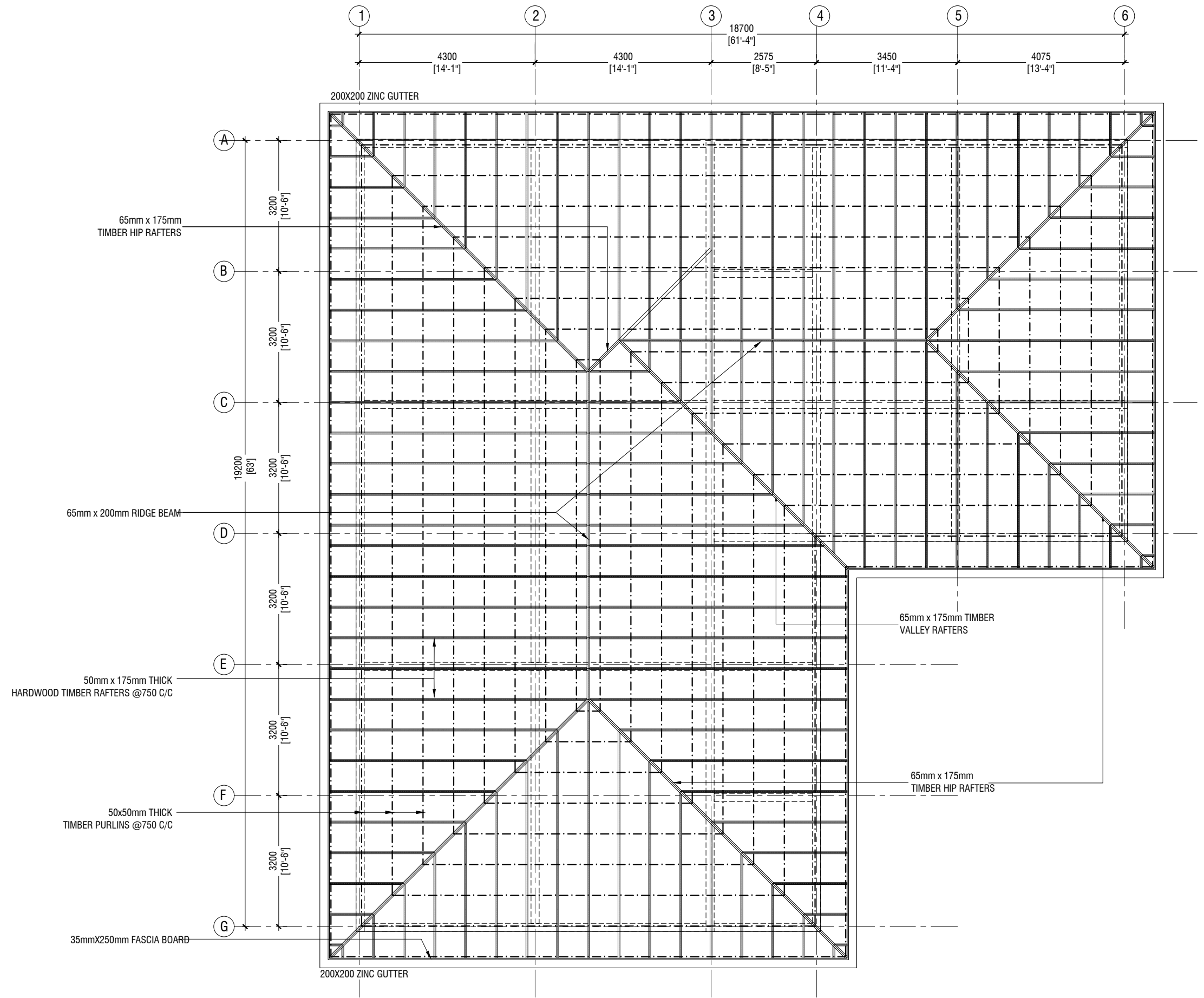
Project Number: RI/2017/012  
Date: October 2019

**Architect :** Razana Amir  
**Engineer :** Ahmed Zuhail Zaeem  
**Drawn by :** Aishath Mohamed Rasheed/Nick P. Dela Cruz  
**Services :** Aishath Ahmed  
**Interior :** -

Rev no	Date
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Title: Roof Beam Plan

Page: S-05/08



**ROOF FRAMING PLAN**  
SCALE 1:100



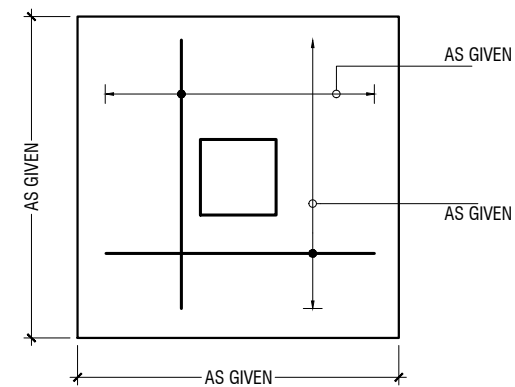
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3rd floor, H. Azumi, Armeeneemagui, Male'

**S. Maradhoo School - 12 Classroom (04 Storey)**  
**Client: Ministry of Education**

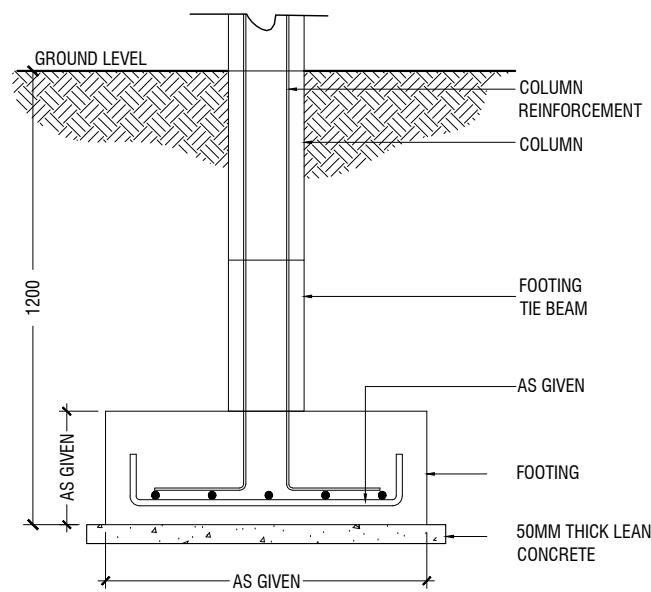
Project Number: RI/2017/012  
Date: October 2019  
Architect : Razana Amir  
Engineer : Ahmed Zuhail Zaeem  
Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

Rev no	Date
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Title: Roof Framing Plan  
Page: S-06/08



**PLAN**



**SECTION**

**FOOTING DETAILS**

## FOUNDATION PADS

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

FOUNDATION DEPTH = 1200mm

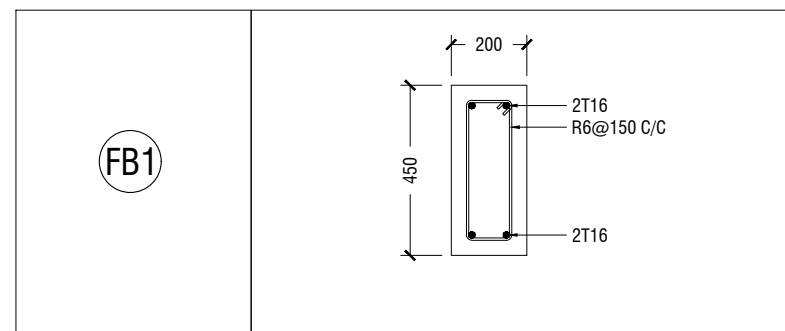
NOTE:-

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

GROUND SLAB : 100mm THK RC SLAB ON FILL  
REINFORCED WITH T10@200 C/C BW

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

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



**TIE BEAM DETAILS**

	GROUND & 1ST FLOOR
C1	
C2	
C3	
C4	

**COLUMN DETAIL**

## STRUCTURAL DETAILS - 1

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Services : Aishath Ahmed  
Interior : -

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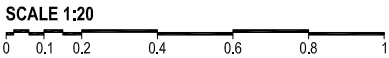
Title: Structural Details - 1  
Plan

Page: S-07/08

	MIDSPAN	SUPPORT
B1		
B2		
B3		
B4		
RB1		

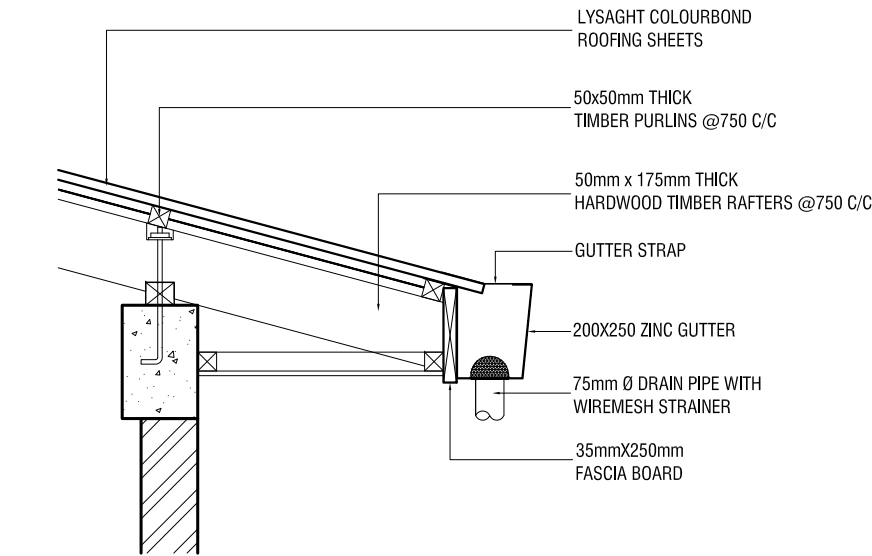
BEAM DETAIL

STRUCTURAL DETAILS - 2

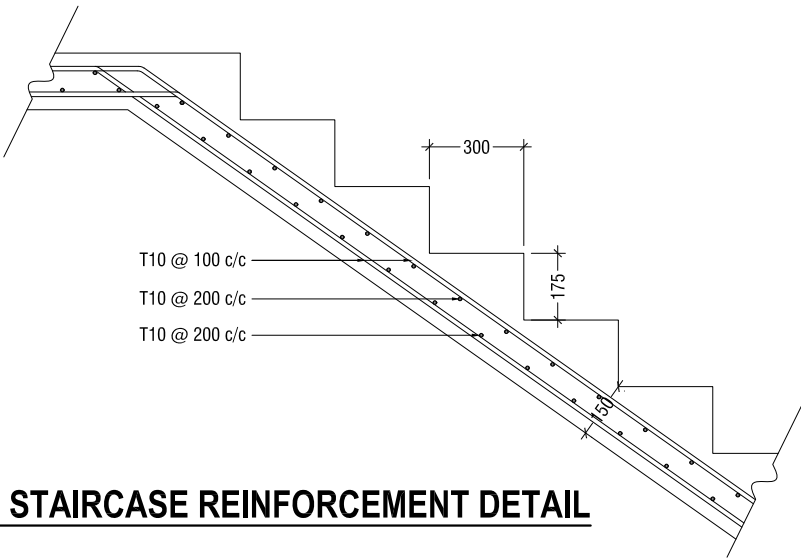


LB1	
LB2	

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



TYPICAL EAVE DETAILS



MAIN STAIRCASE REINFORCEMENT DETAIL



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Drawn by : Aishath Mohamed Rasheed/Nick P. Dela Cruz  
Services : Aishath Ahmed  
Interior : -

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Title: Structural Details - 2  
Page: S-08/08