

Proposed Multipurpose Hall Building at  
R. Ungoofaaruu School

*ARCHITECTURAL & STRUCTURAL DRAWINGS*

Client: Ministry of Education

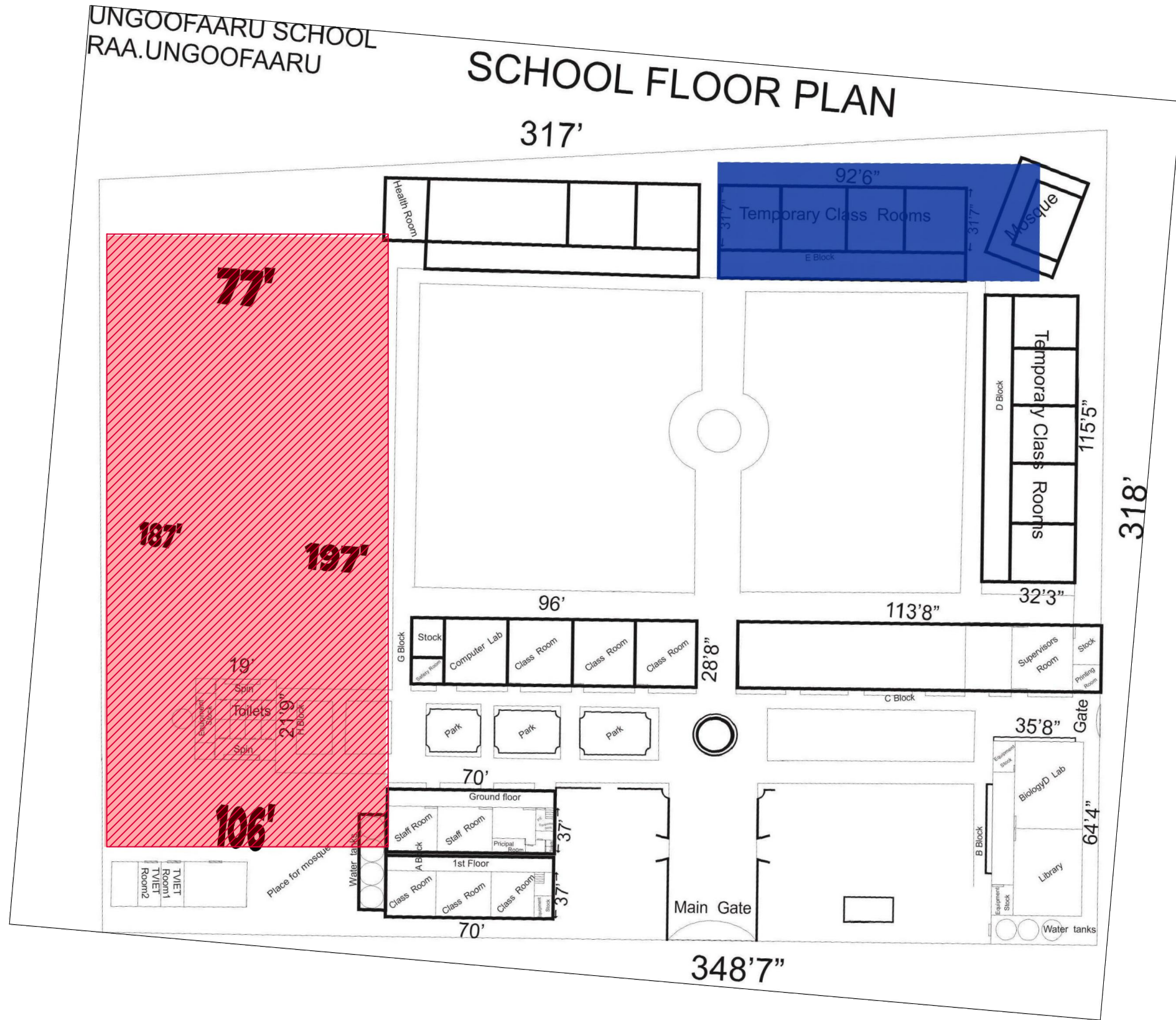
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UNGOOFAARU SCHOOL  
RAA.UNGOOFAARU

# SCHOOL FLOOR PLAN

317'



318'

348'7"

**NOTE:**

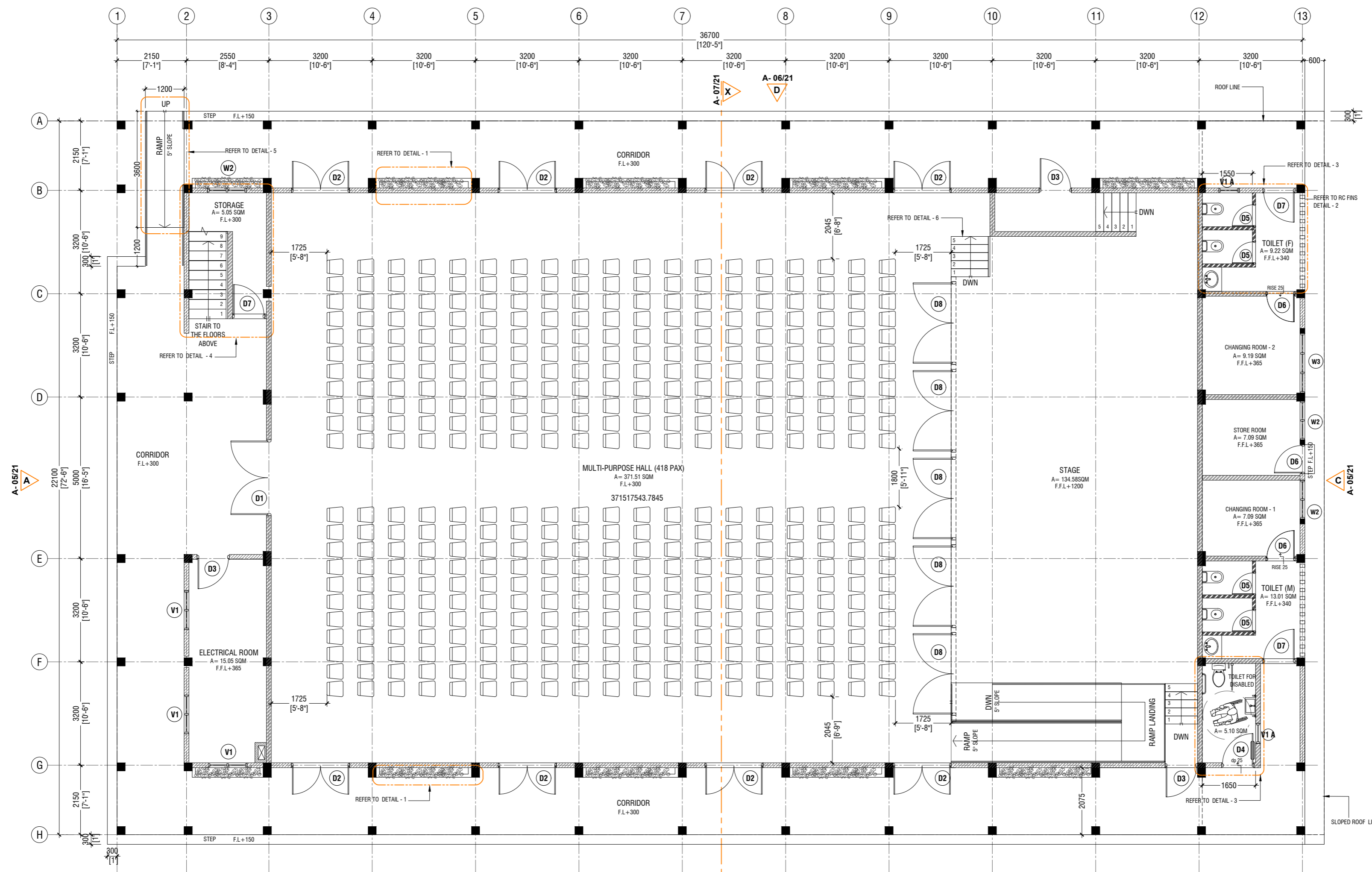
PROPOSED BUILDING LOCATION

AVAILABLE MEASUREMENTS ON SITE FOR THE PROPOSED BUILDING SHOWN

R. Ungoofaaruu School Hall  
Client: Ministry of Education

Project Number	Date	Rev no	Date
.....	February 2024	..	.....
Architect	.....	..	.....
Engineer	.....	..	.....
Drawn by	.....	..	.....
Services	.....	..	.....
Interior	.....	..	.....

**SITE PLAN**  
NTS



**GROUND FLOOR PLAN**

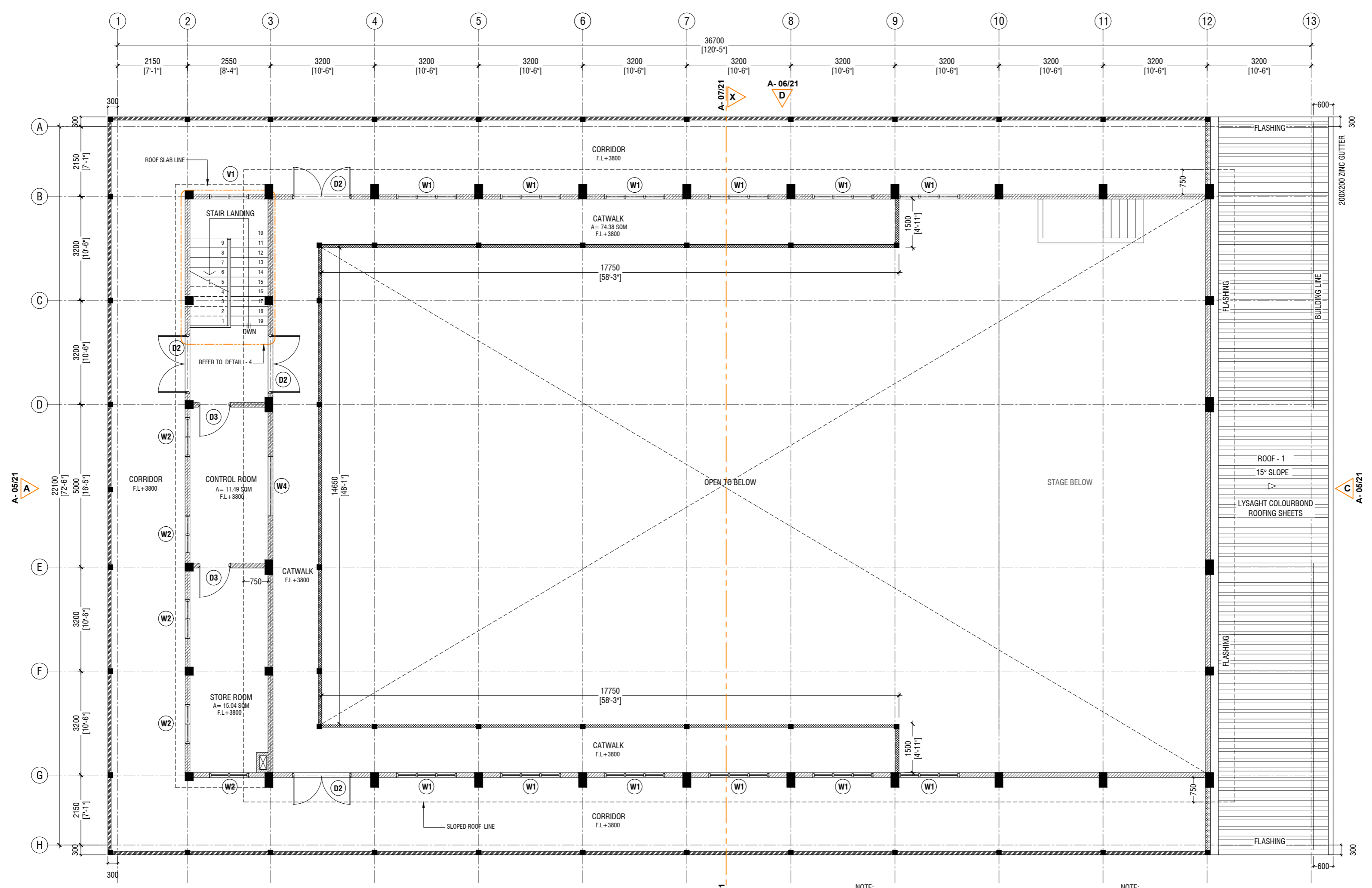
SCALE 1:100  
0 0.5 1 2 3 4 5

- NOTE:**
- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
  - PROPOSED 150mm THICK SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
  - PROPOSED 100mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
  - PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH

- FL : FLOOR LEVEL / SLAB TOP LEVEL
- FFL: FLOOR FINISH LEVEL ( SCREEDING INCORPORATED IN THE VALUES)
- REFER TO DOOR/WINDOW SCHEDULE, TO IDENTIFY THE AREAS THAT HAVE LEDGE BELOW THE DOORS.
- REFER TO THE FLOOR FINISHES PLAN TO IDENTIFY THE LEVEL DIFFERENCES WHEN SCREEDING IS INCORPORATED.
- PROVIDE A DROP AT THE AREAS MARKED.
- REFER TO ARCHITECT FOR FURTHER ASSISTANCE.

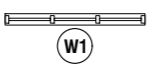
R. Ungoofaaru School Hall  
Client: Ministry of Education

Rev no	Date



**FIRST FLOOR PLAN**

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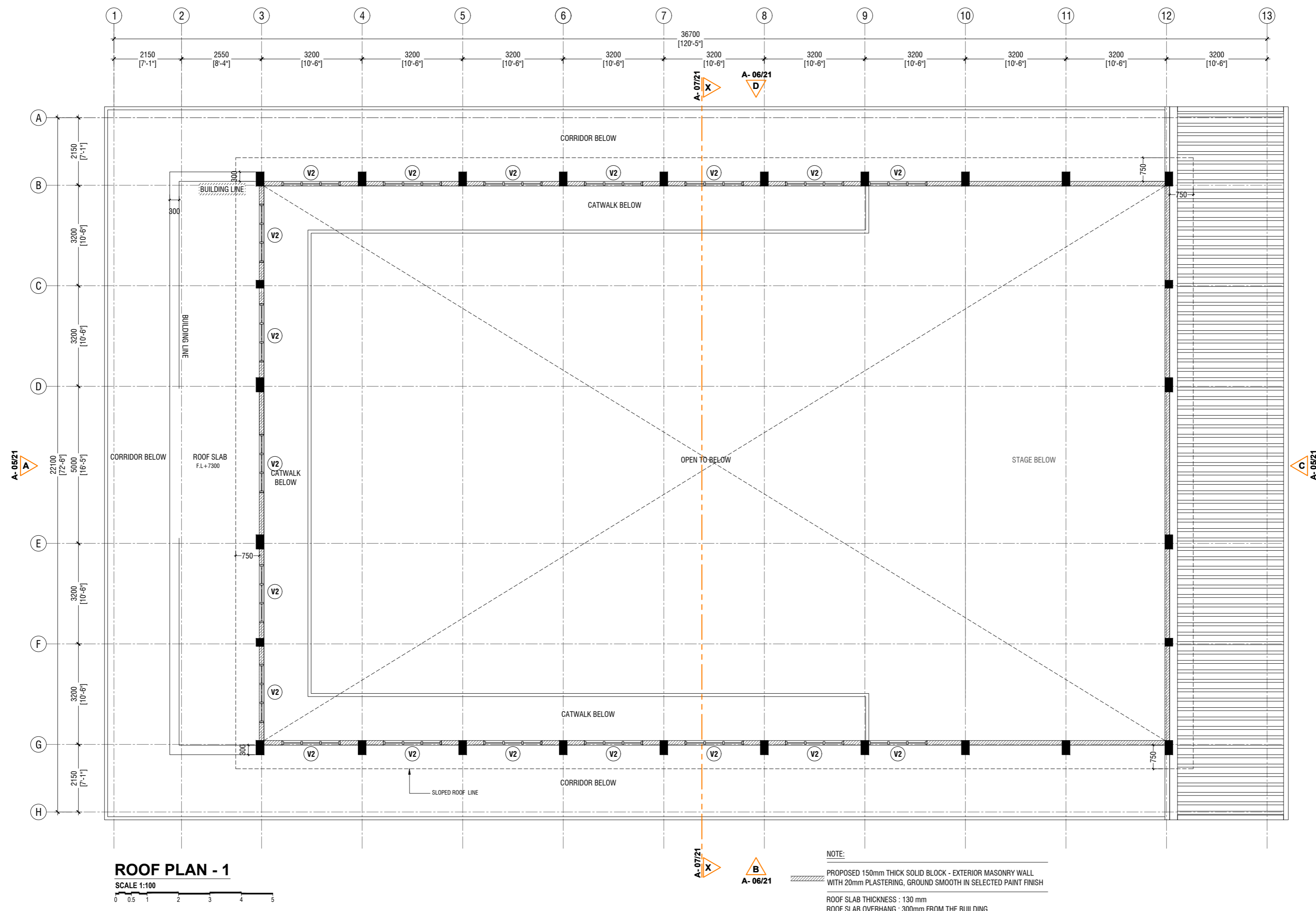


- NOTE:**
- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
  - PROPOSED 150mm THICK SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
  - PROPOSED 100mm THICK, 1200mm HIGH SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
  - PROPOSED 100mm THICK, 1200mm HIGH SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
  - PROPOSED 100mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH

- NOTE:**
- ROOF - 1 SLOPE : 15° SLOPE
  - ROOF - 1 MATERIAL : LYSAGHT COLOURBOND ROOFING SHEETS
  - PROPOSED 150mm THICK, 1200mm HIGH SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
  - FL : FLOOR LEVEL OR SLAB TOP LEVEL
  - FFL: FLOOR FINISH LEVEL ( SCREEDING INCORPORATED IN THE VALUES)
  - REFER TO DOOR/WINDOW SCHEDULE, TO IDENTIFY THE AREAS THAT HAVE LEDGE BELOW THE DOORS.
  - REFER TO THE FLOOR FINISHES PLAN TO IDENTIFY THE LEVEL DIFFERENCES WHEN SCREEDING IS INCORPORATED.
  - PROVIDE A DROP AT THE AREAS MARKED.
  - REFER TO ARCHITECT FOR FURTHER ASSISTANCE.

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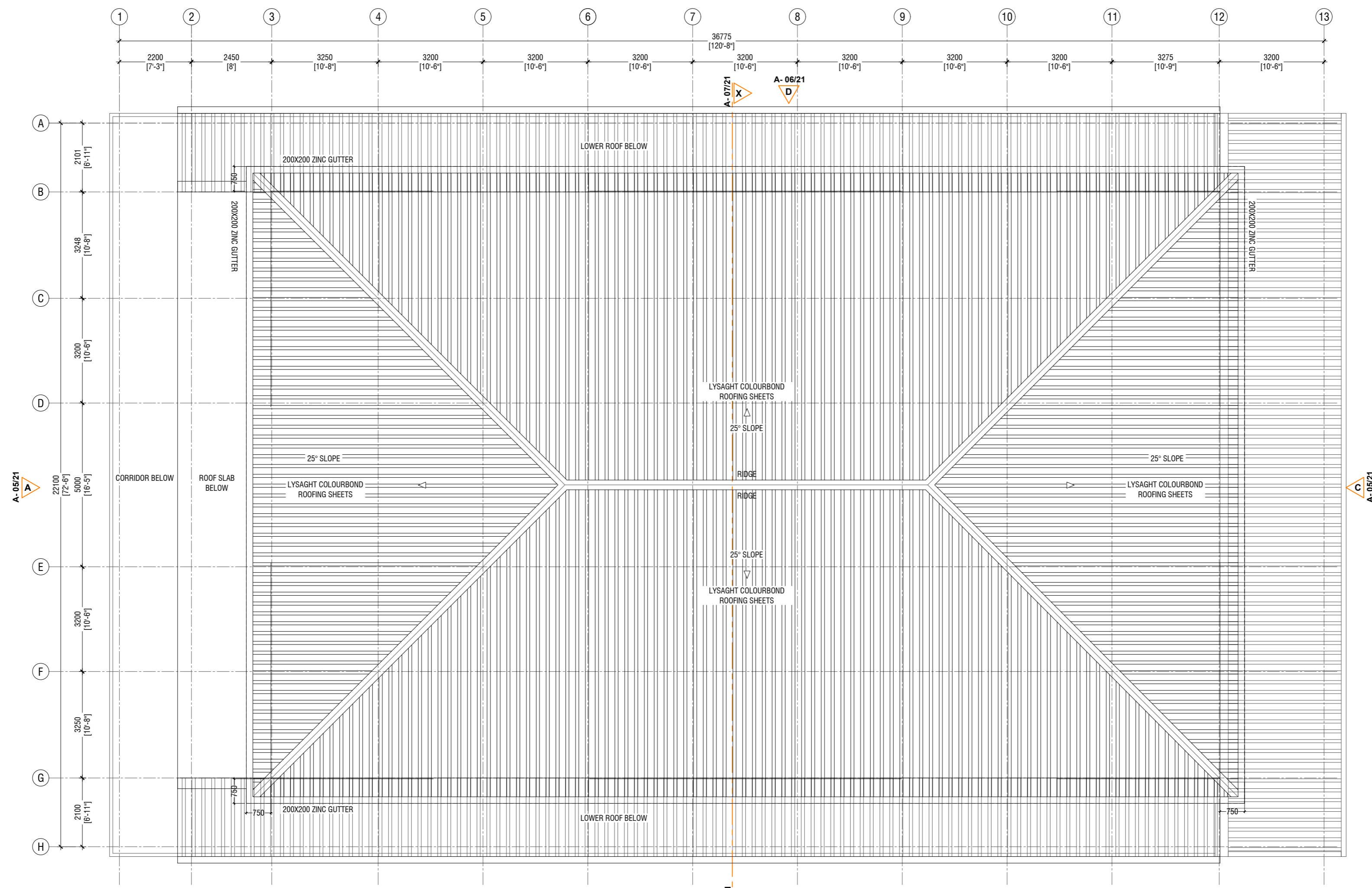
Rev no	Date



R. Ungoofaaru School Hall  
 Client: Ministry of Education

Rev no	Date

Project Number: .....  
 Date: February 2024  
 Architect: .....  
 Engineer: .....  
 Drawn by: .....  
 Interior: .....



**ROOF PLAN - 2**

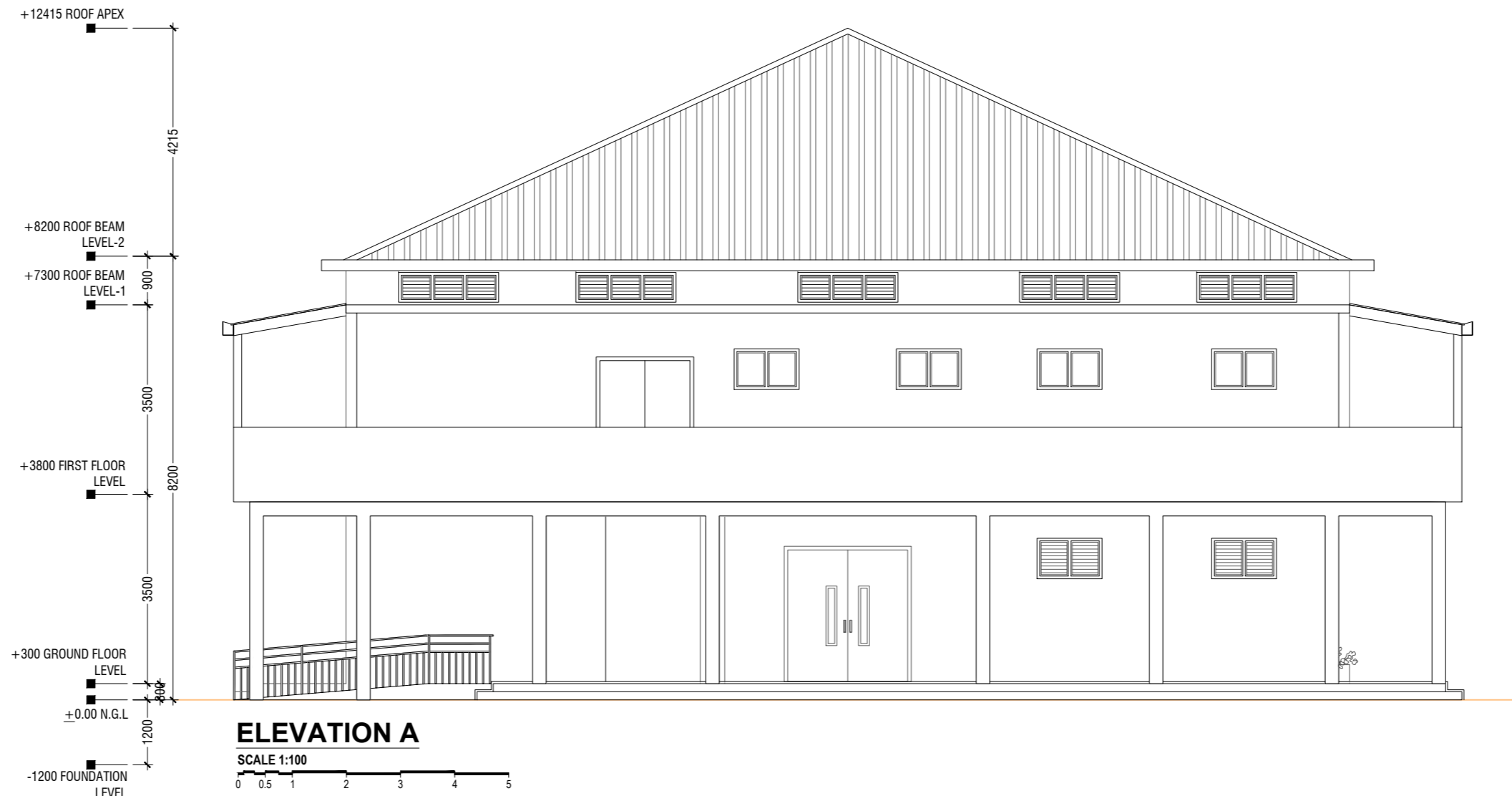
SCALE 1:100



**NOTE:**  
 ROOF - 2 SLOPE : 15° SLOPE  
 ROOF - 2 MATERIAL : LYSAGHT COLOURBOND ROOFING SHEETS  
 ROOF - 2 OVERHANG : 750mm FROM THE BUILDING

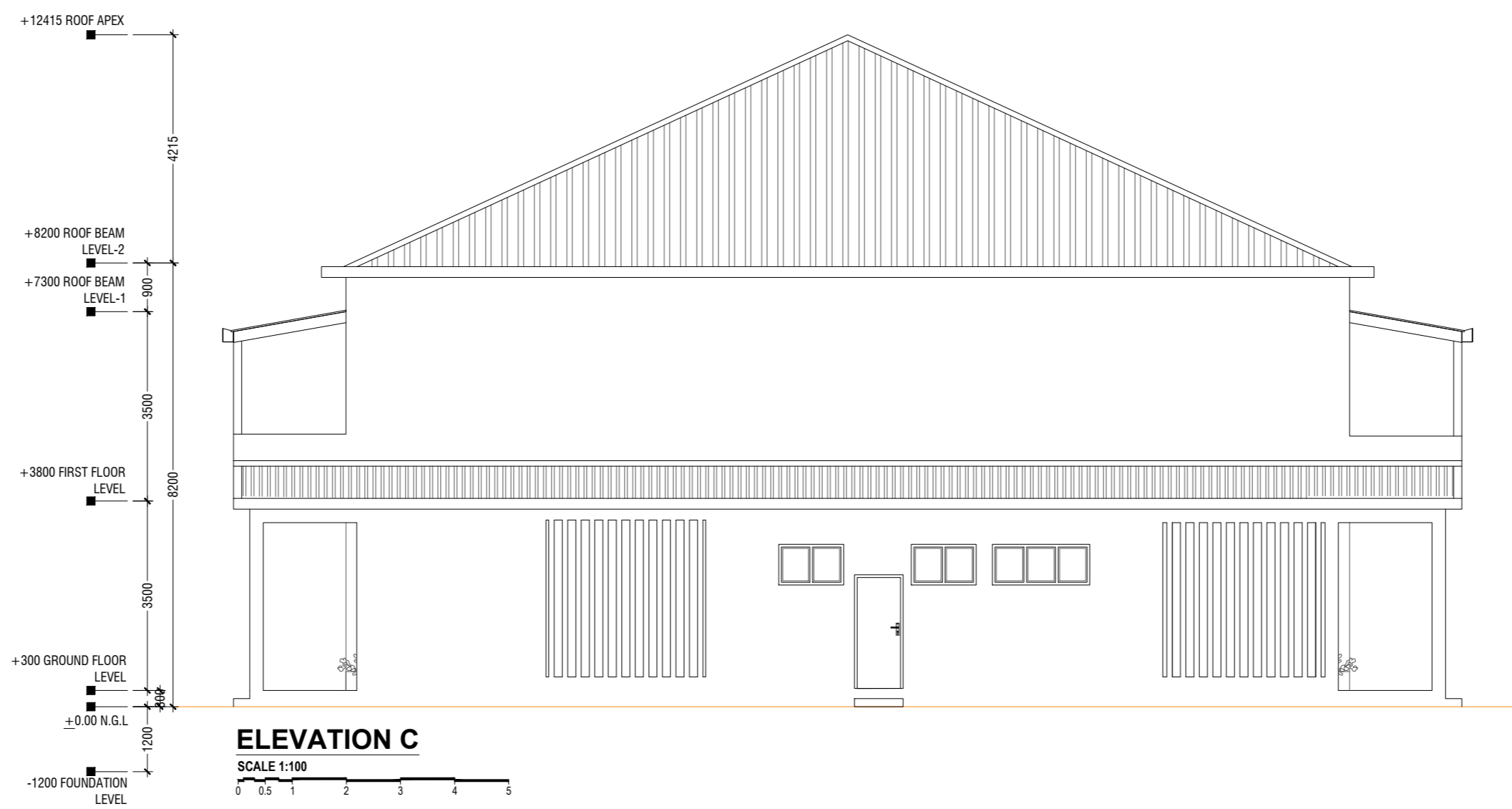
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 Client: Ministry of Education

Rev no	Date



**ELEVATION A**

SCALE 1:100



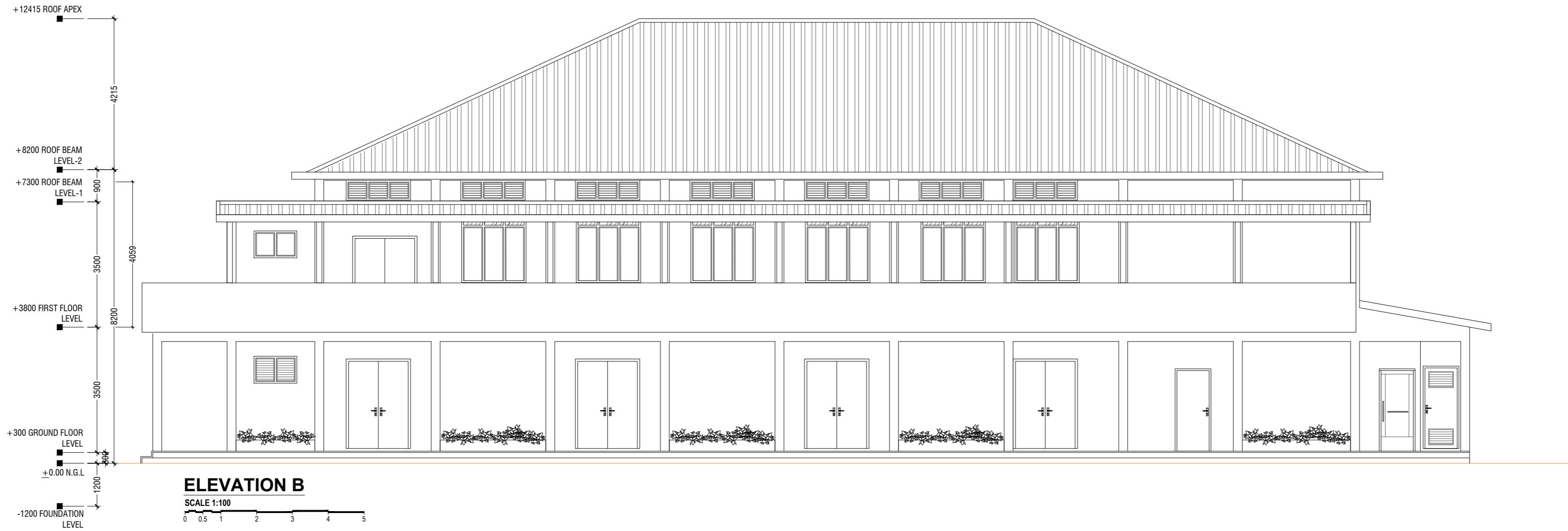
**ELEVATION C**

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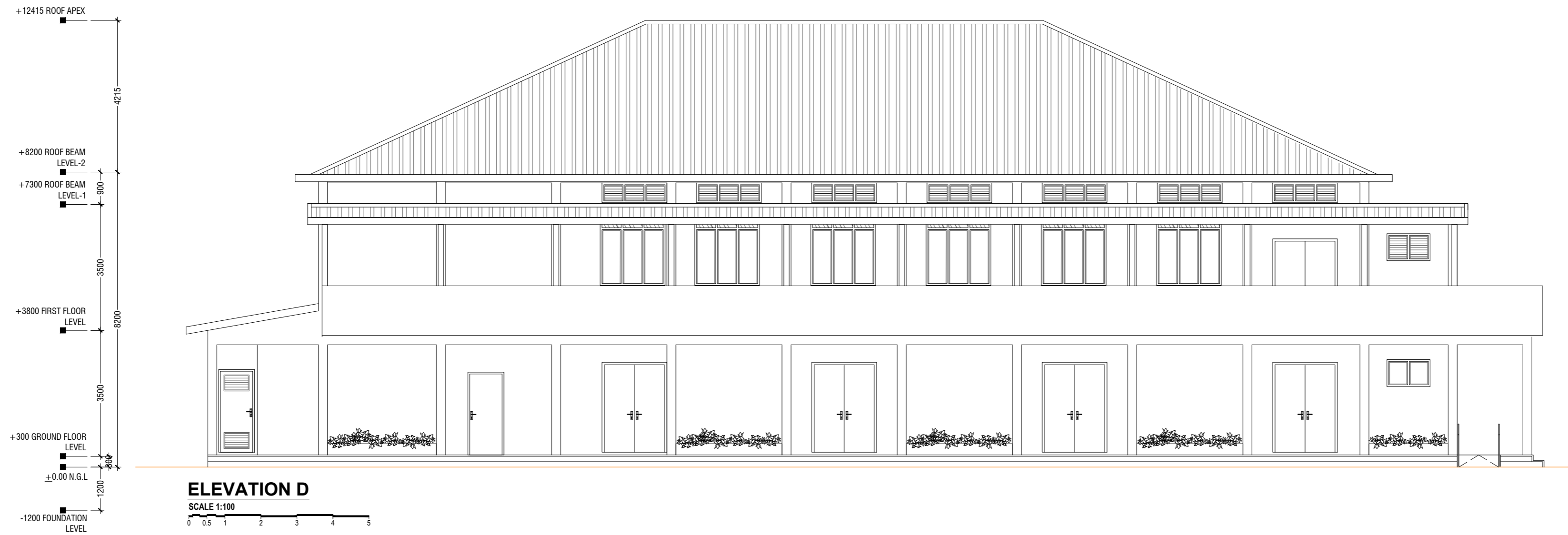
Rev no	Date
1	2024
2	
3	
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5	





**ELEVATION B**

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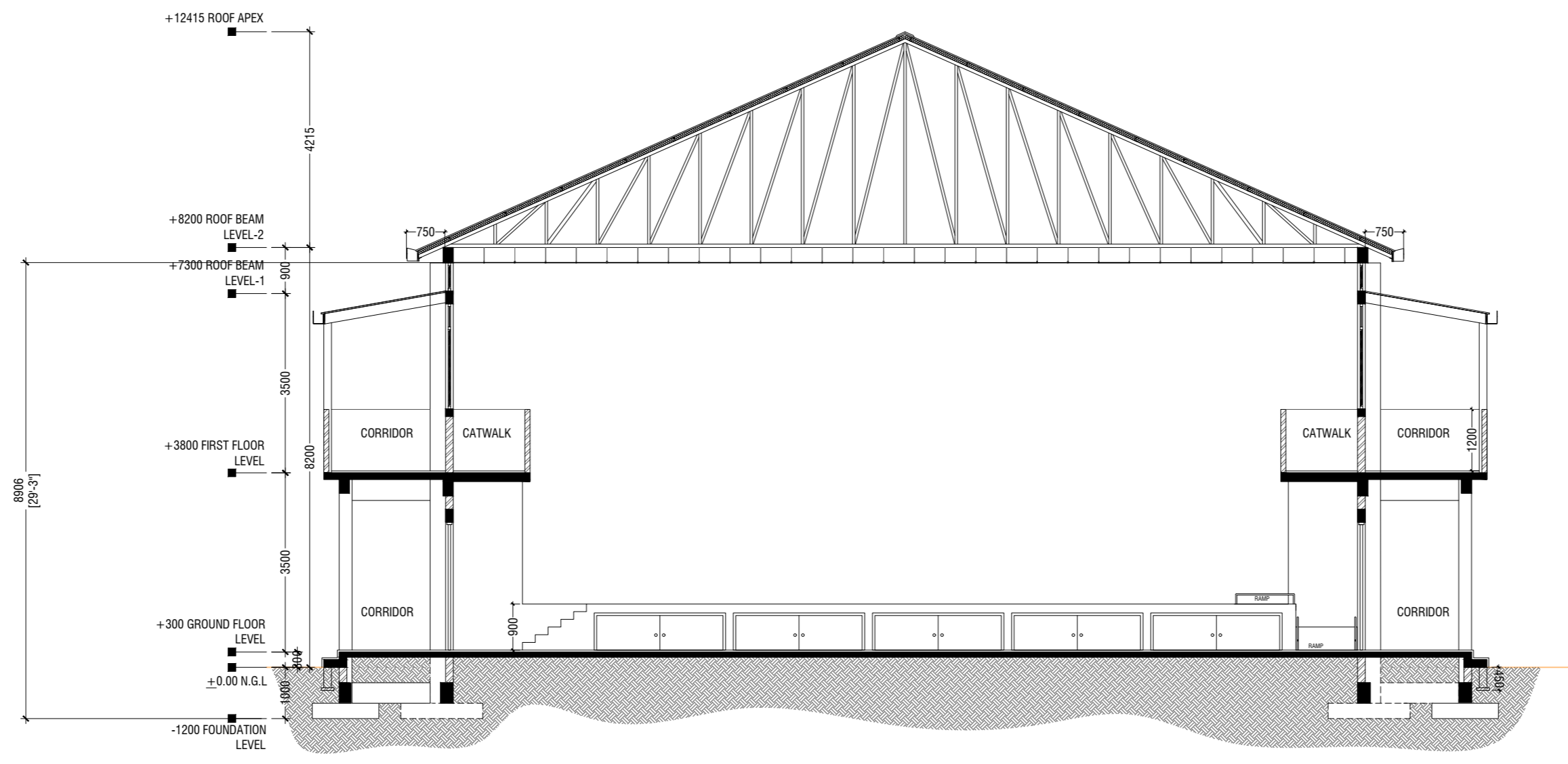


**ELEVATION D**

SCALE 1:100

R. Ungoofaaru School Hall  
Client: Ministry of Education

Rev no	Date
1	15/02/2024
2	
3	
4	
5	



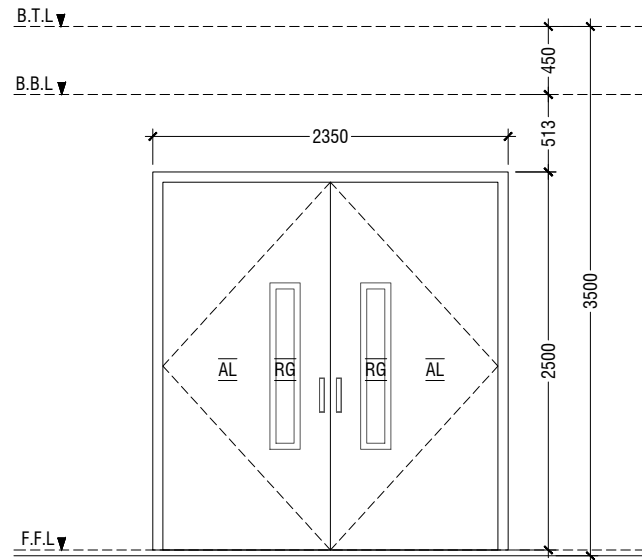
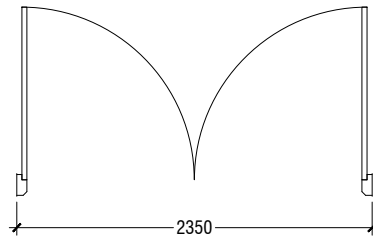
**SECTION X-X**

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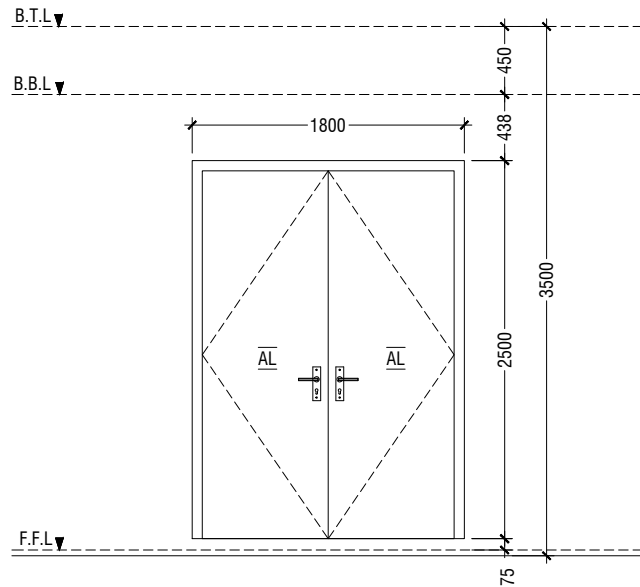
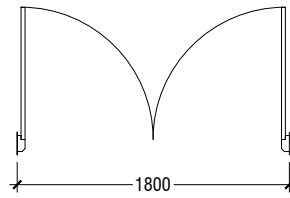


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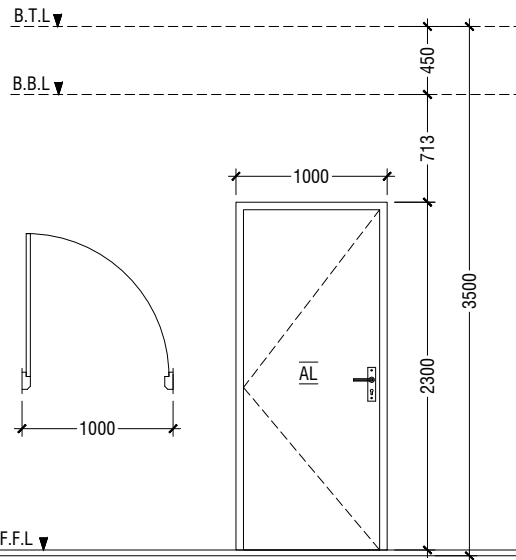
Rev no	Date
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4	.....
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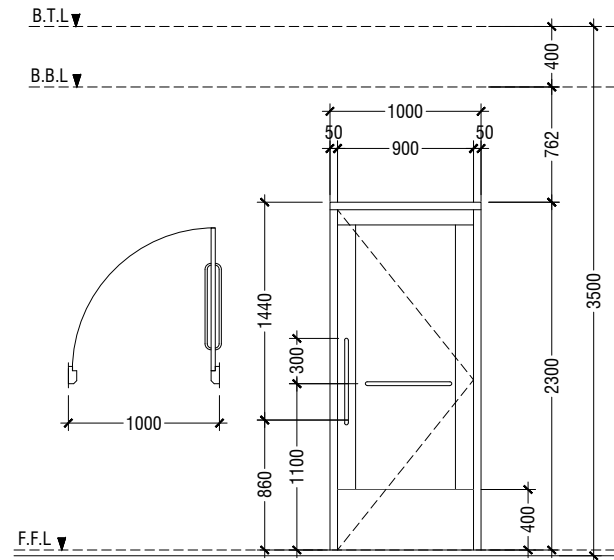
<b>D1</b>	<b>DOUBLE SWING DOOR</b>
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL GLASS ON PANEL : 6mm THK REFLECTIVE GLASS
LOCATION	HALL MAIN ENTRANCE
QUANTITY	01 NOS
OPEN AREA	5.39 sqm



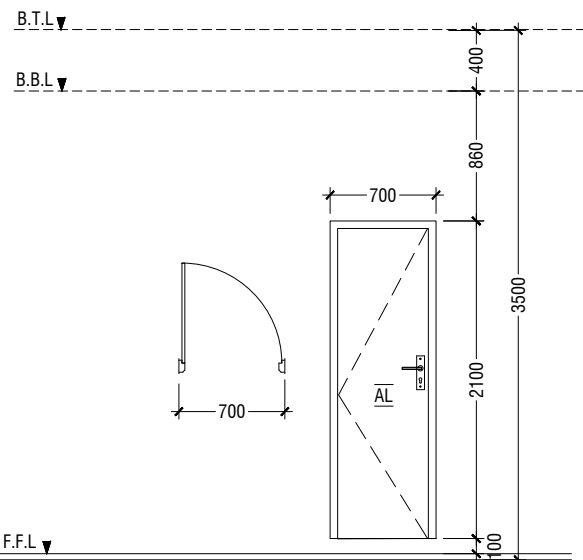
<b>D2</b>	<b>DOUBLE SWING DOOR</b>
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	HALL ENTRANCE
QUANTITY	10 NOS
OPEN AREA	4.05 sqm



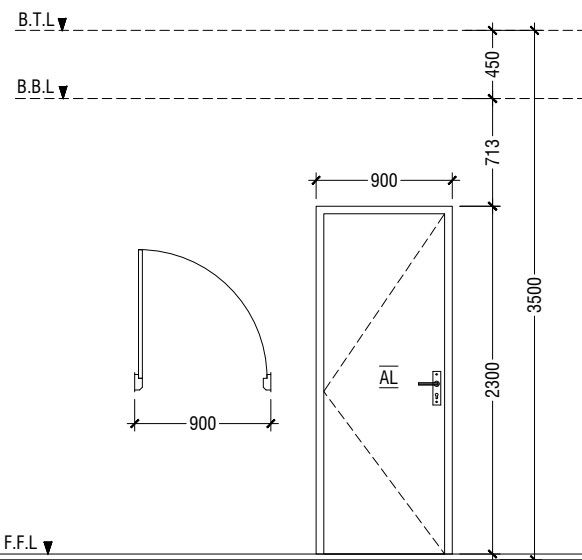
<b>D3</b>	<b>SWING DOOR</b>
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	ELECTRIC ROOM, CONTROL ROOM & STORE ROOM
QUANTITY	05 NOS
OPEN AREA	2.03 sqm



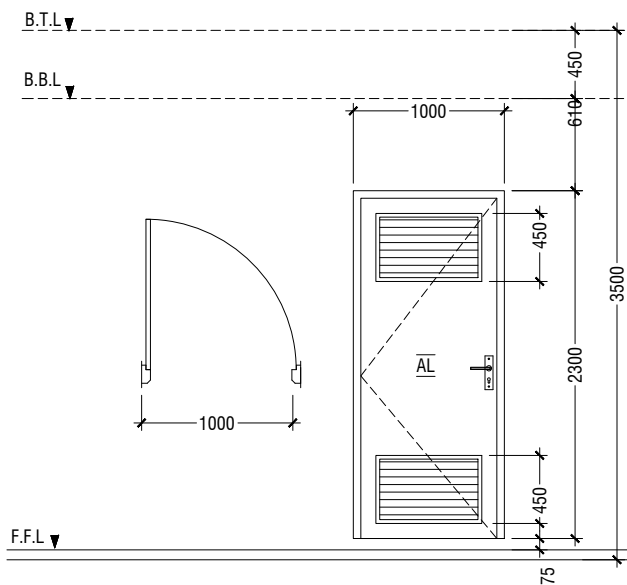
<b>D4</b>	<b>SWING DOOR WITH ALUMINIUM LOUVERS</b>
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS
LOCATION	DISABLED TOILET
QUANTITY	01 NOS
OPEN AREA	2.03 sqm



<b>D5</b>	<b>SWING DOOR</b>
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	TOILETS
QUANTITY	04 NOS
OPEN AREA	1.23 SQM



<b>D6</b>	<b>SWING DOOR</b>
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	CHANGING ROOM & STORE ROOM
QUANTITY	03 NOS
OPEN AREA	2.03 sqm

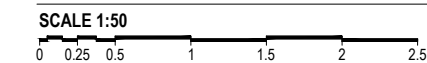


<b>D7</b>	<b>SWING DOOR WITH ALUMINIUM LOUVERS</b>
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS
LOCATION	TOILETS & UNDER STAIR STORE
QUANTITY	03 NOS
OPEN AREA	2.03 sqm

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

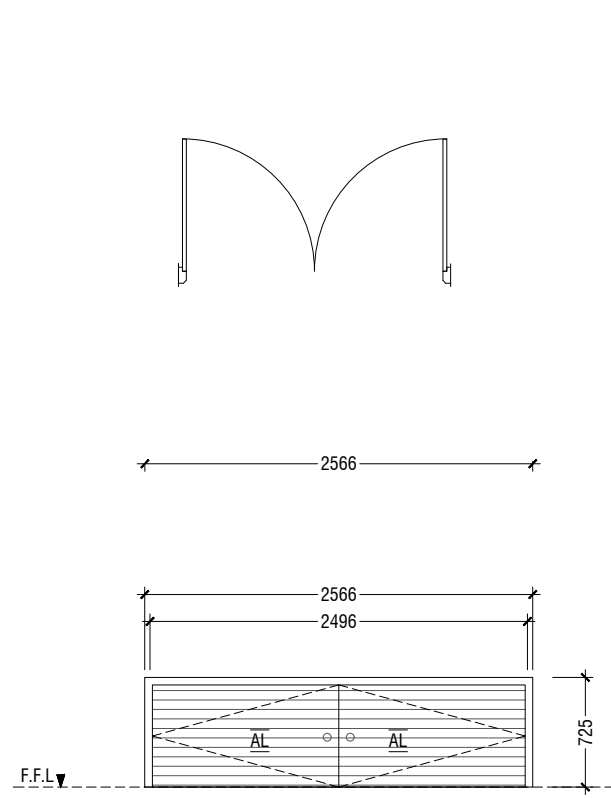
**NOTE:-**  
 - FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES, LIKEWISE, THE BEAM DEPTH CHANGES AT DIFFERENT LOCATIONS OF SIMILAR DOORS/WINDOWS AND WILL BE SUBJECTED TO CHANGES  
 - ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.  
 - ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, 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

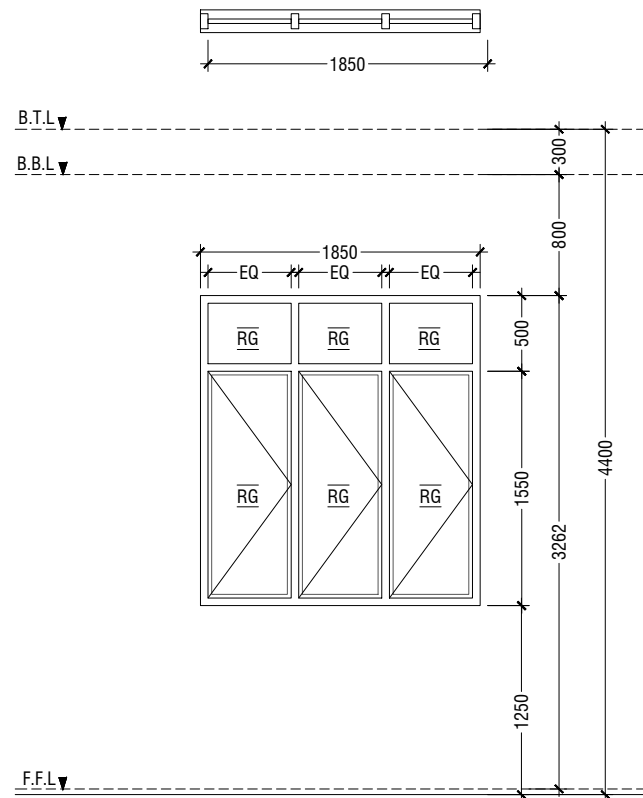


**R. Ungoofaaru School Hall**  
**Client: Ministry of Education**

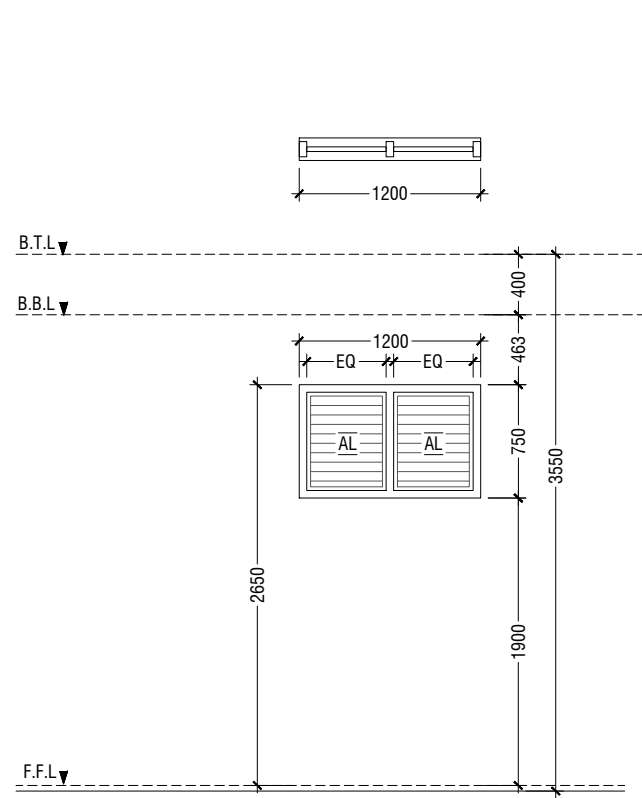
Project Number : .....  
 Date: February 2024  
 Architect : .....  
 Engineer : .....  
 Drawn by : .....  
 Services : .....  
 Interior : .....



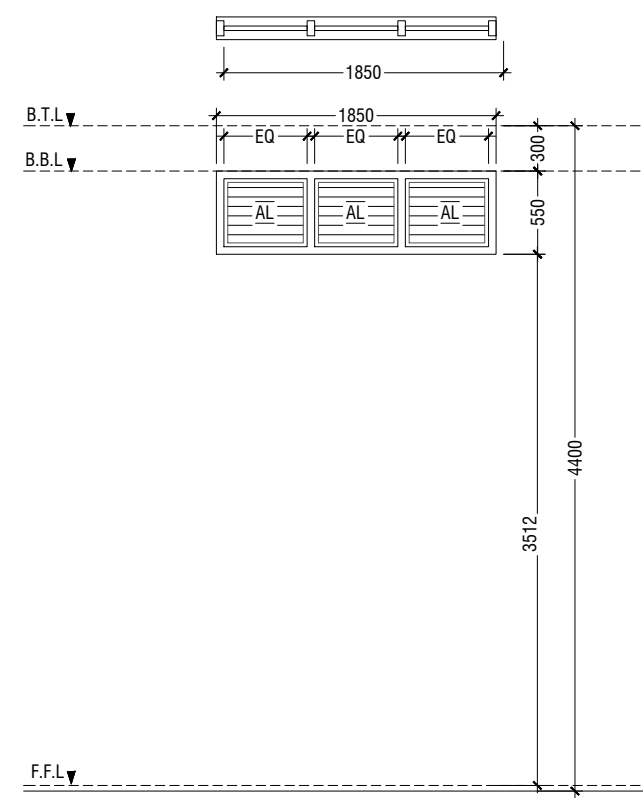
<b>D8</b>	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINIUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	STAGE STORE ACCESS
QUANTITY	03 NOS
OPEN AREA	1.66 SQM



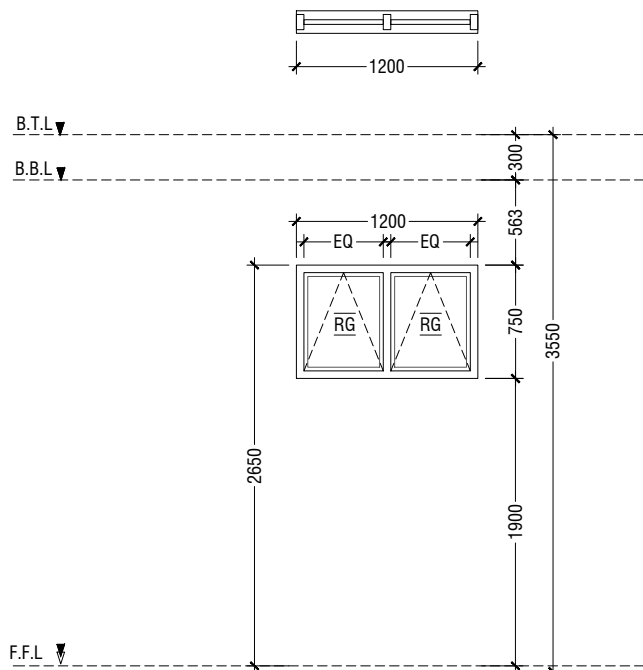
<b>W1</b>	WINDOW WITH FIXED GLASS & OPERABLE WINDOWS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINIUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	HALL
QUANTITY	14 NOS
OPEN AREA	2.40 sqm



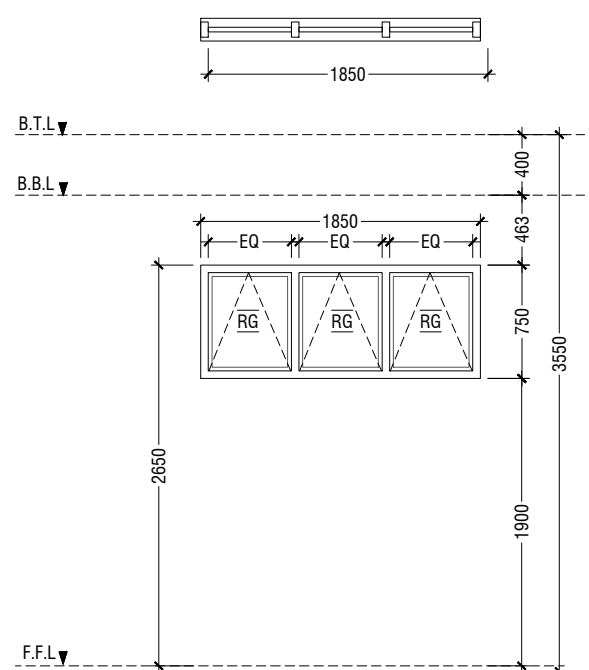
<b>V1</b>	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINIUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ELECTRICAL ROOM & STAIR CASE
QUANTITY	04 NOS
OPEN AREA	0.68 sqm



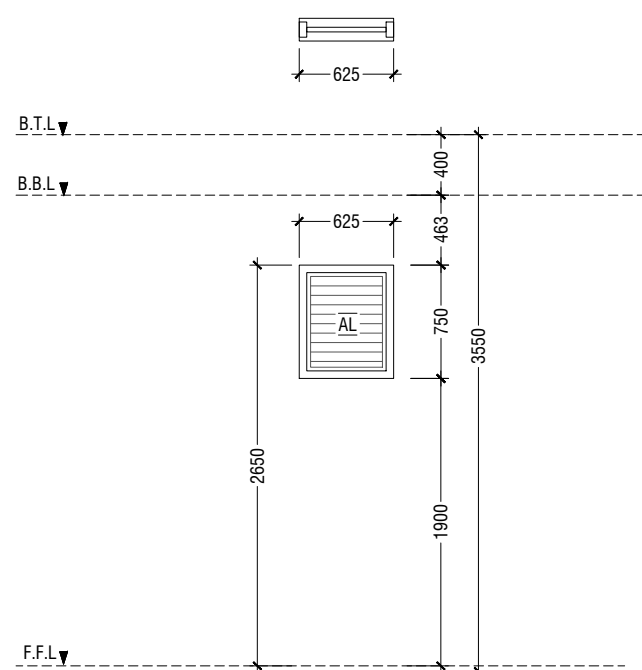
<b>V2</b>	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINIUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ABOVE HALL CEILING
QUANTITY	19 NOS
OPEN AREA	0.72 sqm



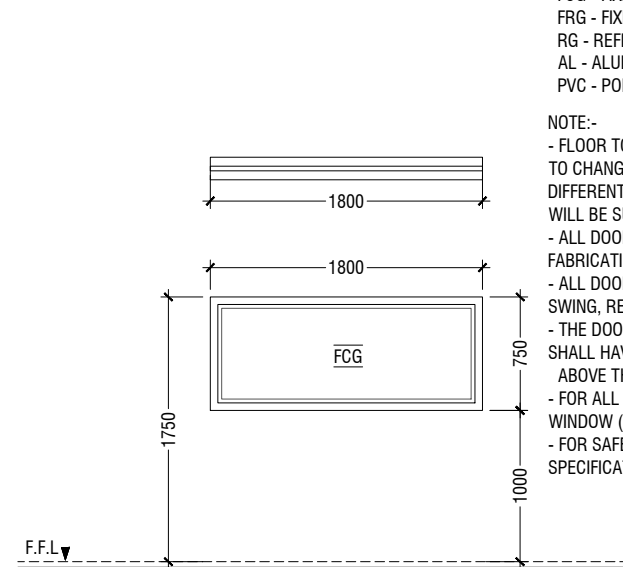
<b>W2</b>	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINIUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	STORE ROOMS , CONTROL ROOM & CHANGING ROOM
QUANTITY	08 NOS
OPEN AREA	0.68 sqm



<b>W3</b>	TOP HUNG WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINIUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	CHANGING ROOM
QUANTITY	01 NOS
OPEN AREA	1.04 sqm



<b>V1 A</b>	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINIUM FRAMED WINDOW WITH ALUMINIUM LOUVERS
LOCATION	ELECTRICAL ROOM & STAIR CASE
QUANTITY	02 NOS
OPEN AREA	0.68 sqm



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

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

**NOTE:-**  
 - FLOOR TO FLOOR HEIGHT VARIATIONS, LIKEWISE, THE DIFFERENT LOCATIONS OF SIMILAR ITEMS WILL BE SUBJECTED TO CHANGE.  
 - ALL DOORS & WINDOWS TO BE FABRICATED.  
 - ALL DOOR & WINDOWS VIEW SWING, REFER TO FLOOR PLAN.  
 - THE DOORS / WINDOWS WHICH SHALL HAVE A LINTEL BEAM (L) ABOVE THE DOOR / WINDOW.  
 - FOR ALL THE WINDOWS PUT WINDOW (SB)  
 - FOR SAFETY PURPOSES REFER TO SPECIFICATIONS FOR GLASS TYPE

## DOOR / WINDOW SCHEDULE - 2

SCALE 1:50  
 0 0.25 0.5 1 1.5 2 2.5

R. Ungoofaaru School Hall  
 Client: Ministry of Education

Project Number	.....
Date	February 2024
Architect	.....
Engineer	.....
Drawn by	.....
Services	.....
Interior	.....

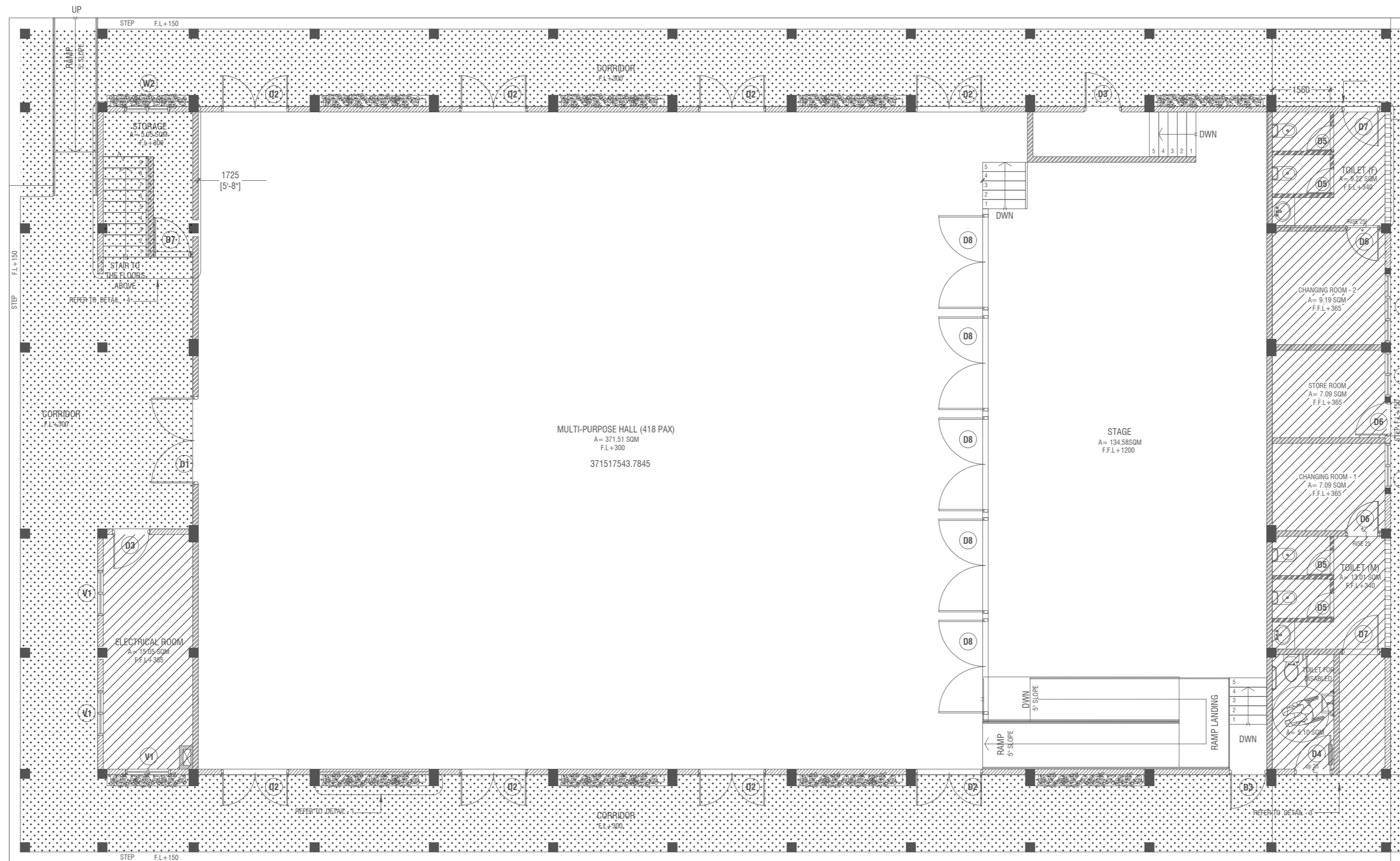
**SCHEDULE OF VENTILATION V.KEYODHOO SCHOOL**

	<b>Room name</b>	<b>Room Areas (sqm) ( Specify centre to centre or clear)</b>	<b>Window (opening) number</b>	<b>Required opening areas (sqm)</b>	<b>Designed opening areas (sqm)</b>	<b>Open %</b>
	<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	W2	0.71	1.04	14.67%
4	Changing Room -2	9.19	W3	0.92	1.04	11.32%
5	Store Room	7.09	D6 & 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**

R. Ungoofaaruu School Hall  
Client: Ministry of Education

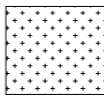
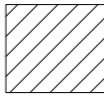
Project Number: .....	Date: February 2024
Architect: .....	Engineer: .....
Drawn by: .....	Services: .....
Interior: .....	



**GROUND FLOOR  
FLOOR REFLECTED CEILING PLAN**

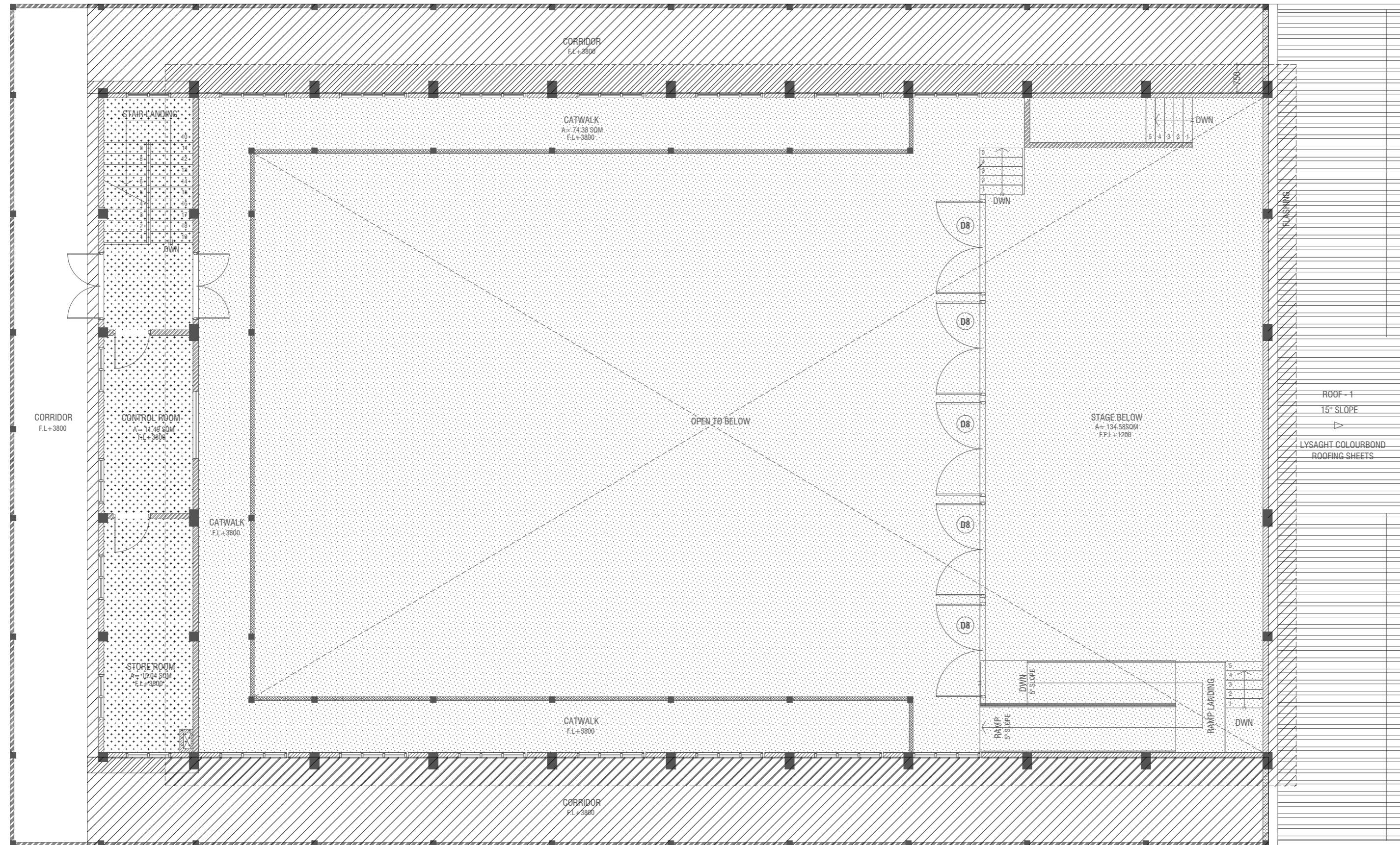
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**LEGEND**

CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)
	6mm THICK CEMENT BOARD CEILING WITH PUTTY AND SELECTED PAINT FINISH

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Client: Ministry of Education

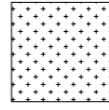
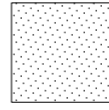
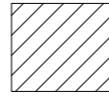
Project Number: .....  
Date: February 2024  
Architect: .....  
Engineer: .....  
Services: .....  
Interior: .....



**FIRST FLOOR  
FLOOR REFLECTED CEILING PLAN**

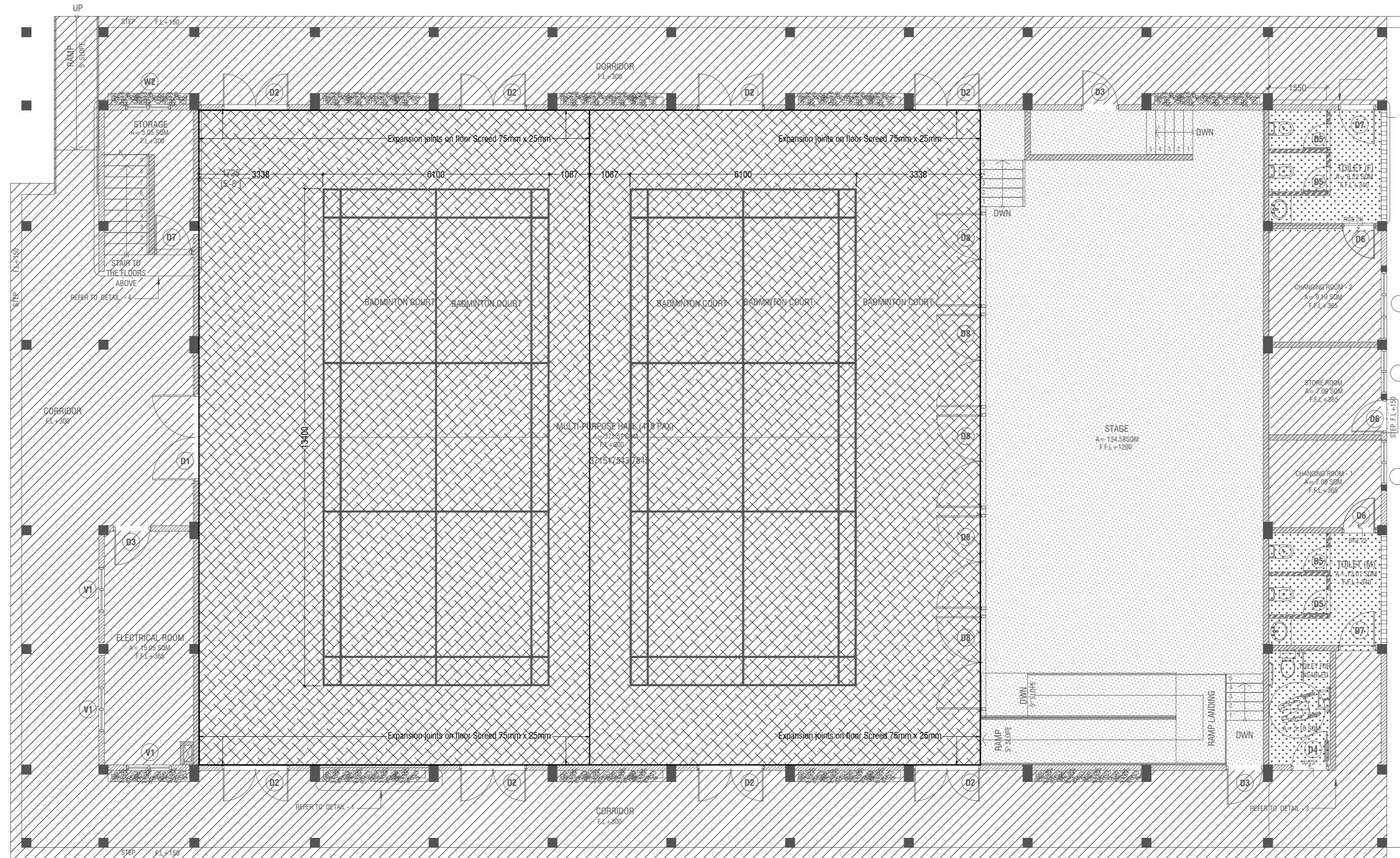
SCALE 1:100  
0 0.5 1 2 3 4 5

**LEGEND**

CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)
	12mm THICK GYPSUM BOARD CEILING WITH PUTTY AND SELECTED PAINT FINISH
	6mm THICK CEMENT BOARD CEILING WITH PUTTY AND SELECTED PAINT FINISH

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**GROUND FLOOR  
FLOOR FINISHES PLAN**

SCALE 1:100  
0 0.5 1 2 3 4 5

**LEGEND**

CODE	DESCRIPTION
	35mm NORMAL SCREEDING WITH 2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	Indoor PVC Sport Flooring for badminton court Total Thickness: 7mm Wear layer thickness : 1.2mm Waterproof

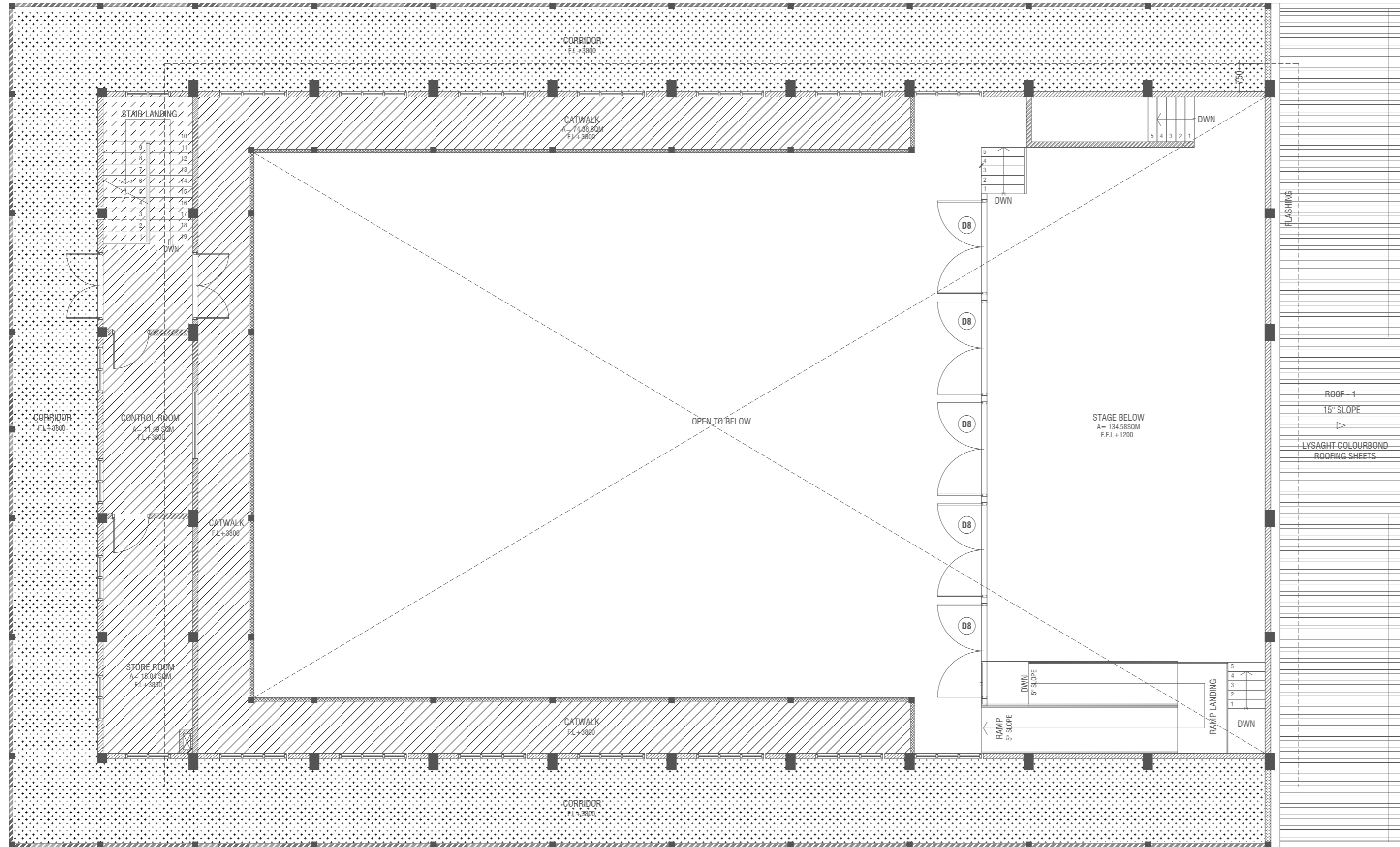
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING
--	---

NOTE:  
 BADMINTON COURT TO BE DRAWN ON WITH ELASTOMETRIC PAINT IN SELECTED PAINT FINISH  
 STAGE SHOULD HAVE A CARPET FINISH ON TOP OF THE 25X100mm HARDWOOD FLOORING

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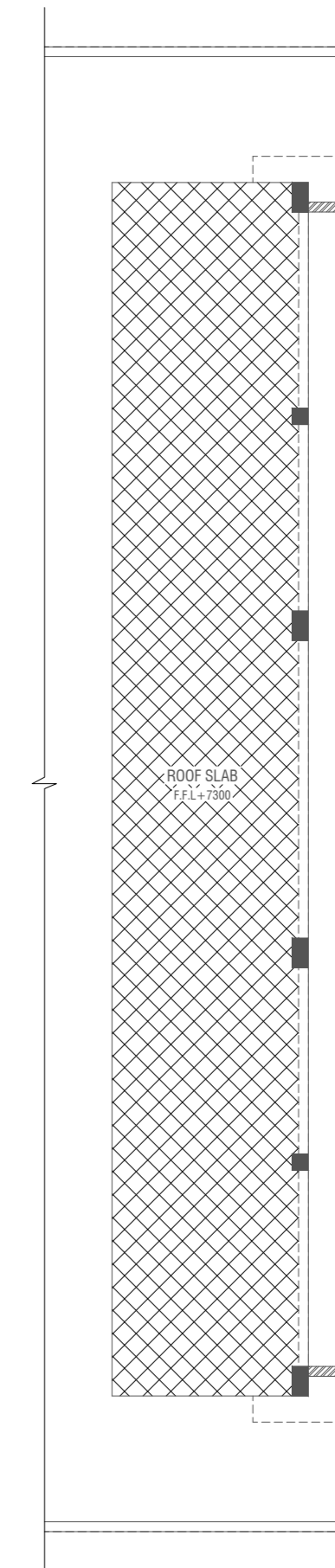


**FIRST FLOOR  
FLOOR FINISHES PLAN**

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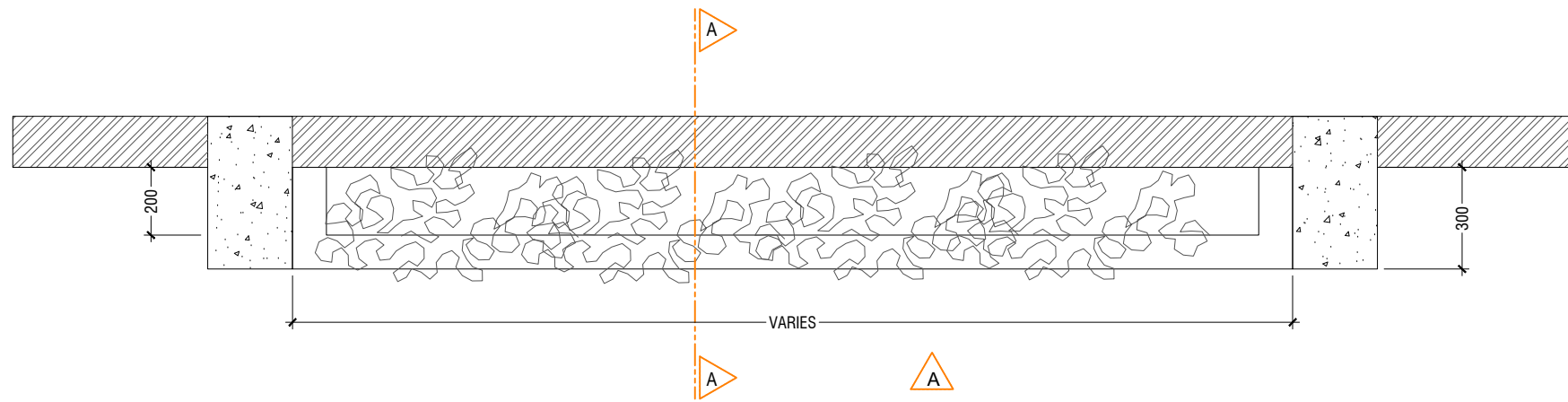
**LEGEND**

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	SELF LEVELLING CEMENT FLOOR SCREED WITH BITUMINOUS WATERPROOFING AGENT
	300X1200mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING



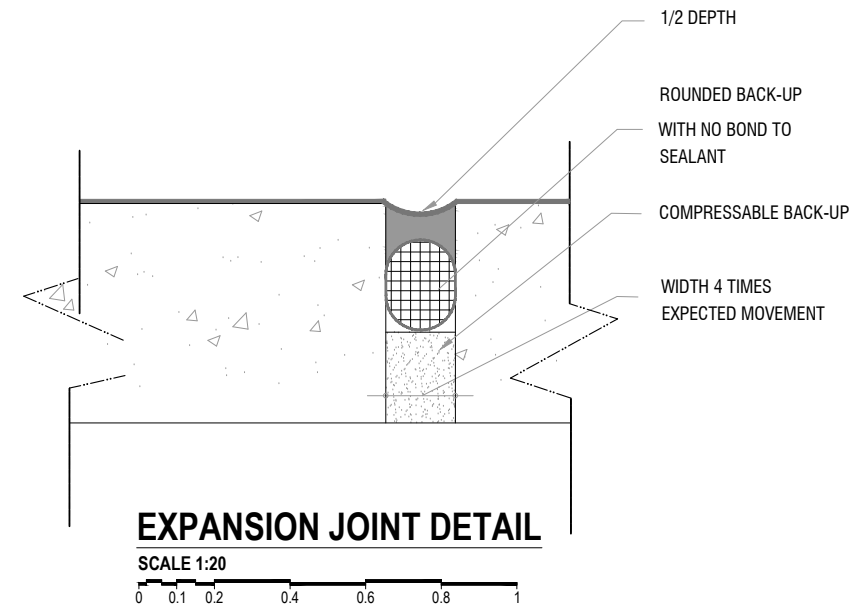
**ROOF SLAB - 1  
FLOOR FINISHES PLAN**

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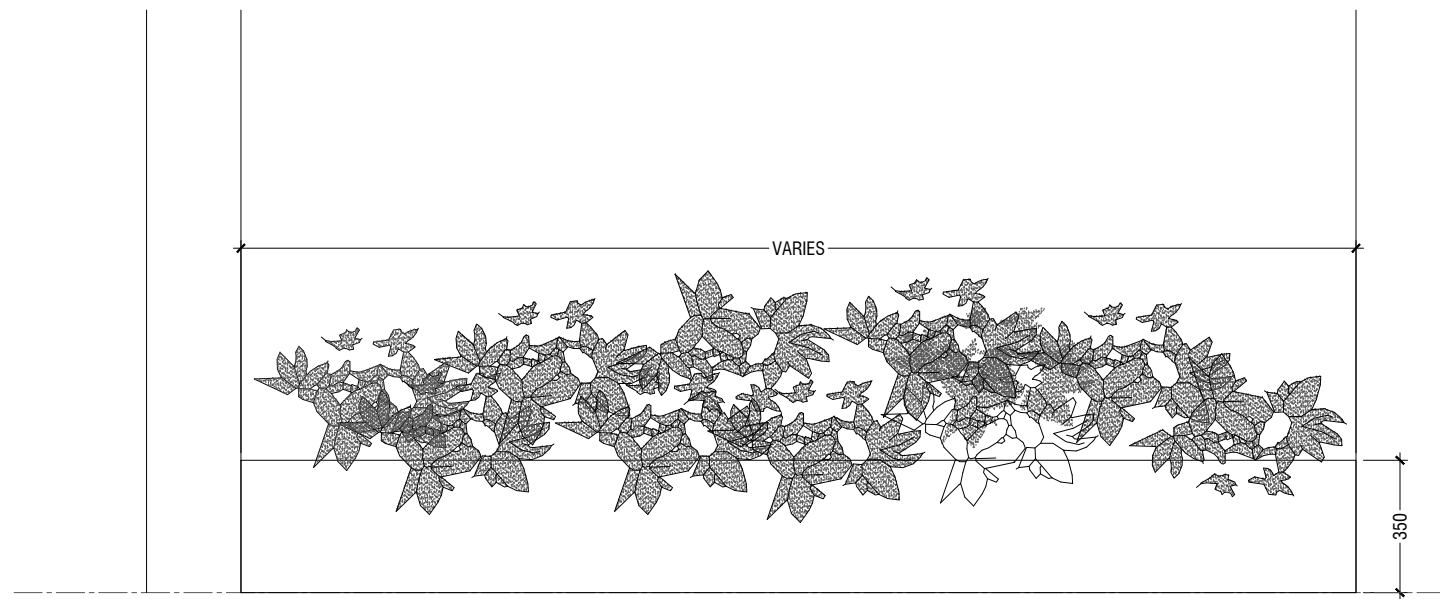
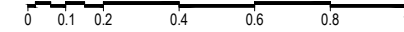
**PLAN**

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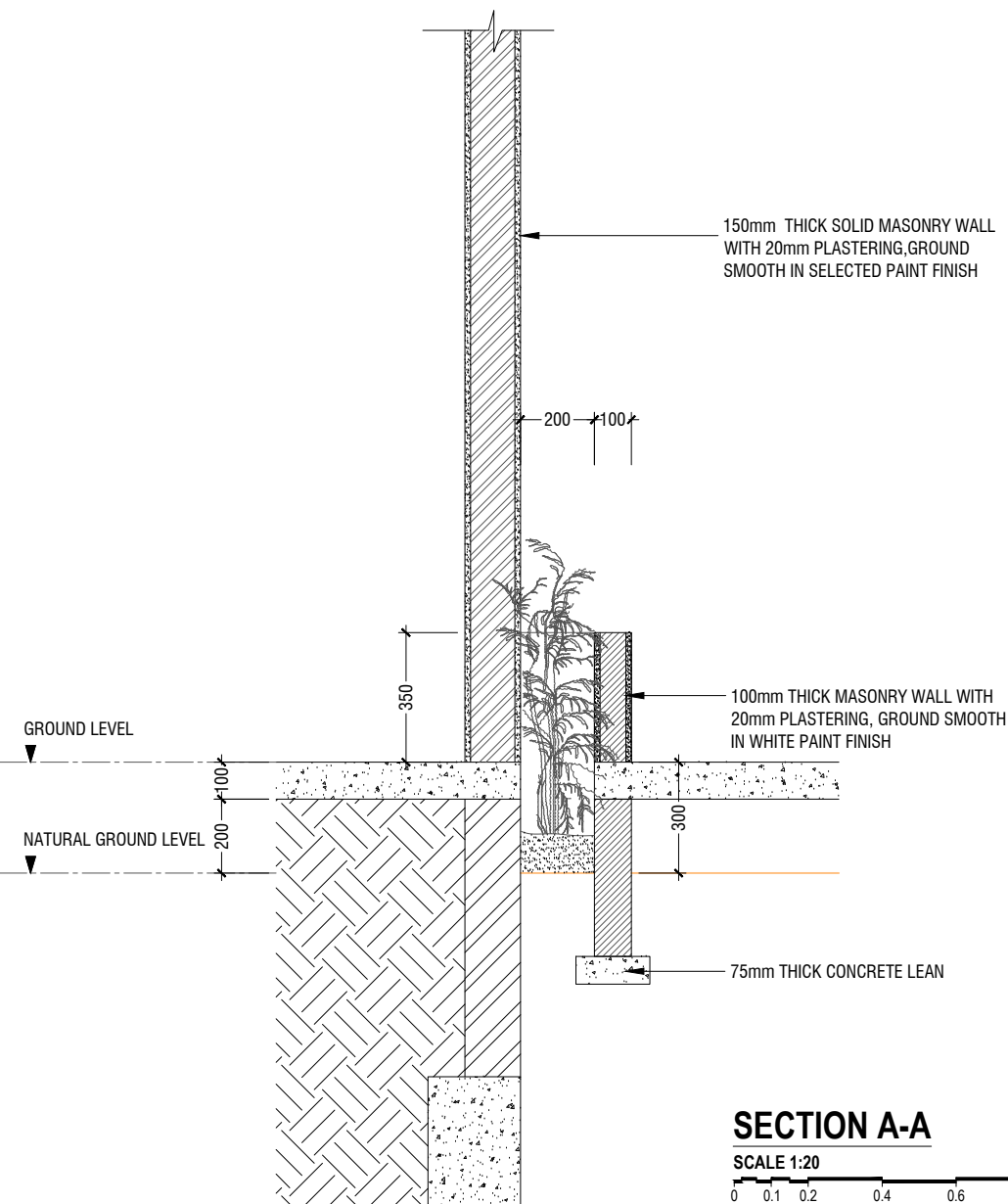
**EXPANSION JOINT DETAIL**

SCALE 1:20



**ELEVATION A**

SCALE 1:20



**SECTION A-A**

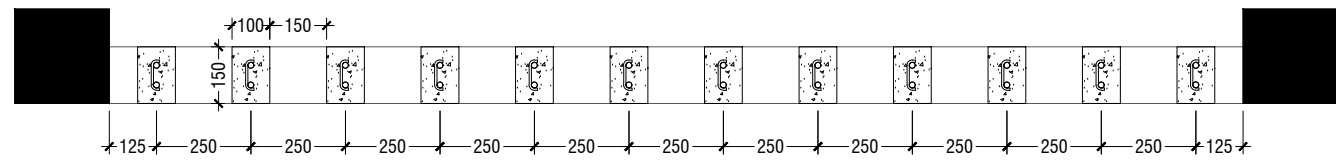
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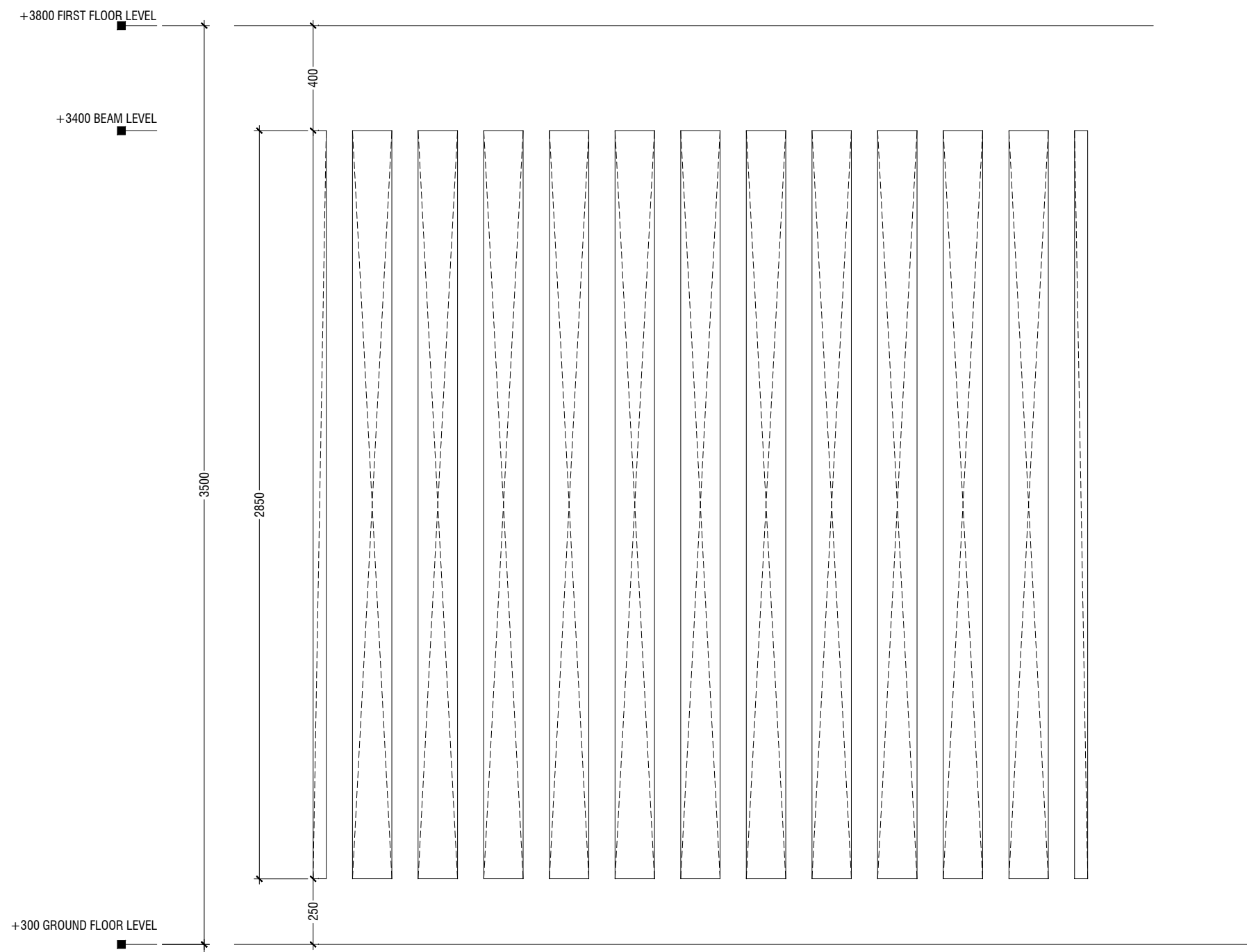
**PLANTER BOX DETAILS**

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.....	February 2024	.....	.....
Architect	.....	.....	.....
Engineer	.....	.....	.....
Drawn by	.....	.....	.....
Services	.....	.....	.....
Interior	.....	.....	.....

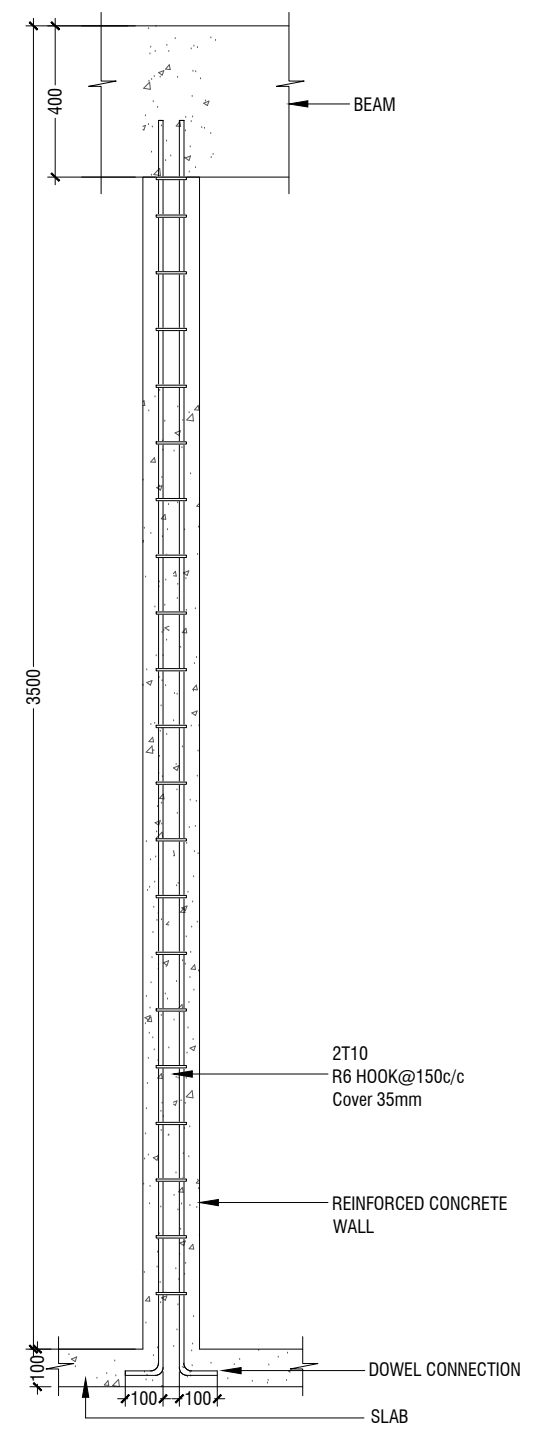


C



**ELEVATION - C**  
SCALE 1:20

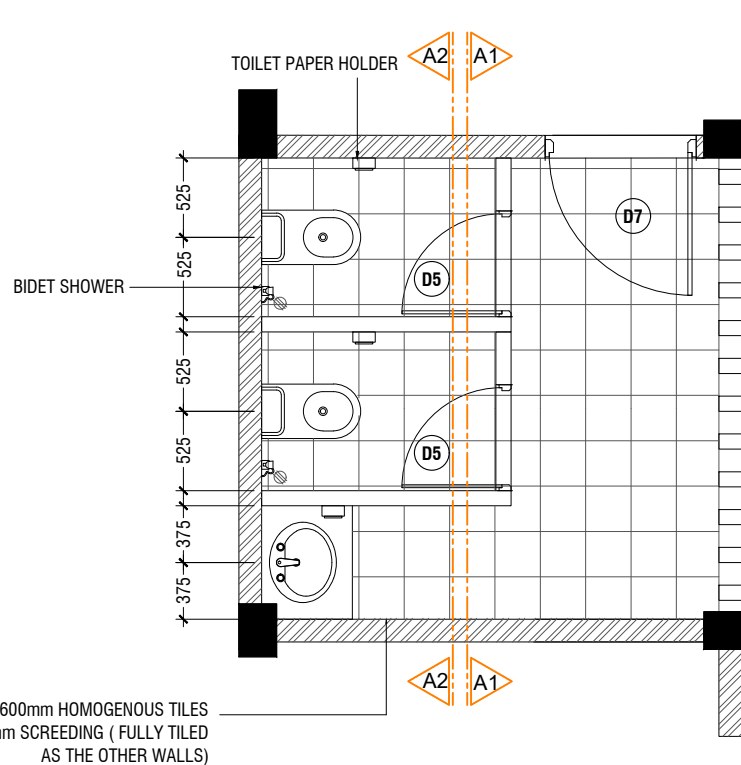
**RC FIN DETAILS**  
SCALE 1:20



**SECTION**  
SCALE 1:20

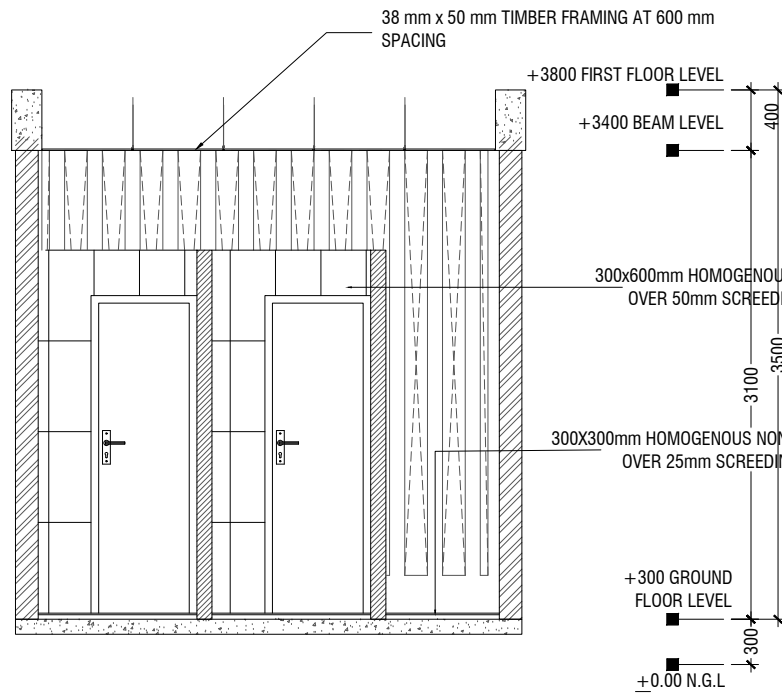
R. Ungoofaaru School Hall  
Client: Ministry of Education

Project Number	Date	Rev no	Date
.....	February 2024	..	.....
Architect	.....	..	.....
Engineer	.....	..	.....
Drawn by	.....	..	.....
Services	.....	..	.....
Interior	.....	..	.....



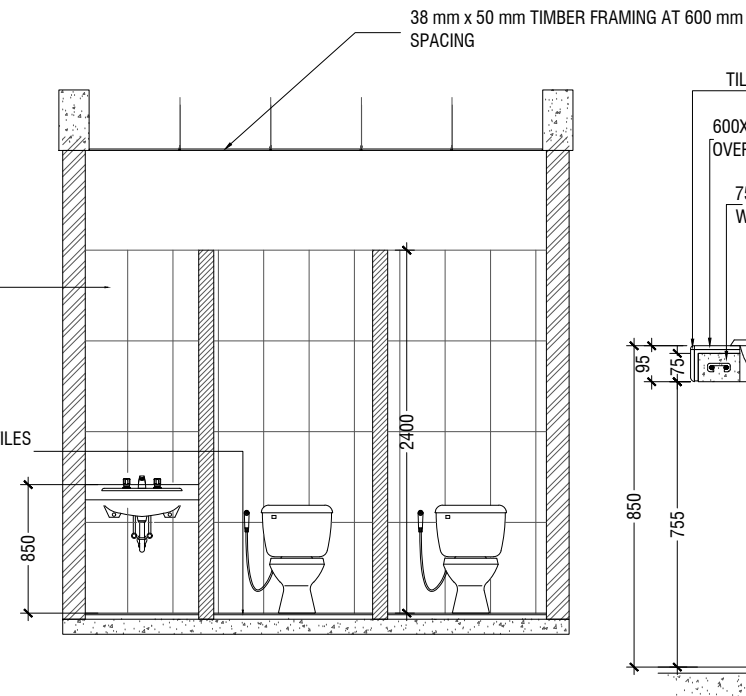
**TYPICAL TOILET PLAN**

SCALE 1:50



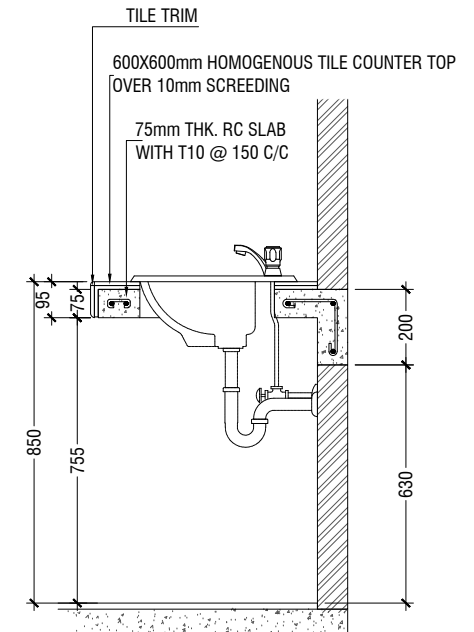
**SECTION A1-A1**

SCALE 1:50



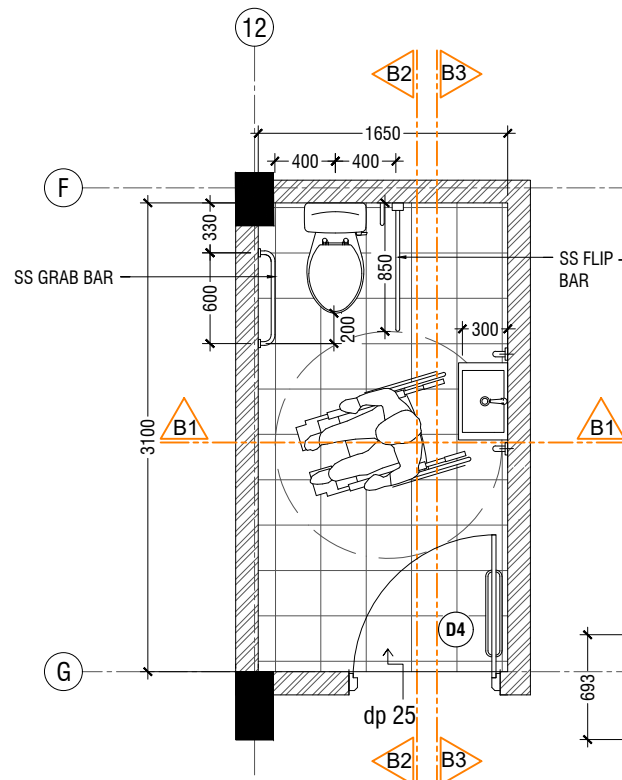
**SECTION A2-A2**

SCALE 1:50



**COUNTER TOP DETAILS**

SCALE 1:20



**TOILET FOR PERSONS WITH  
DISABILITIES PLAN**

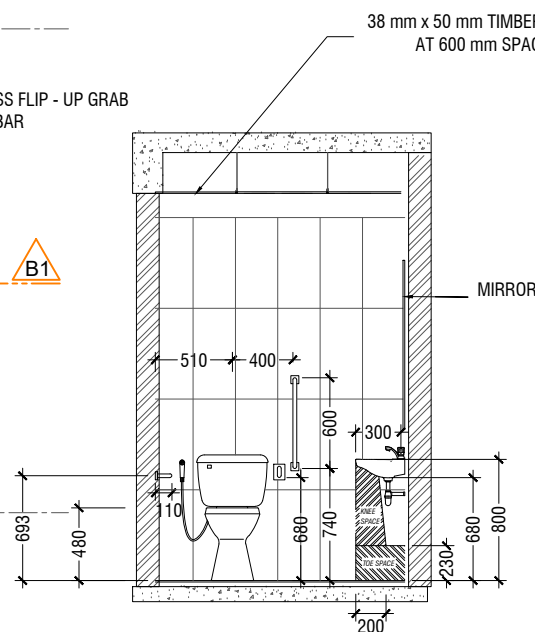
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NOTE:

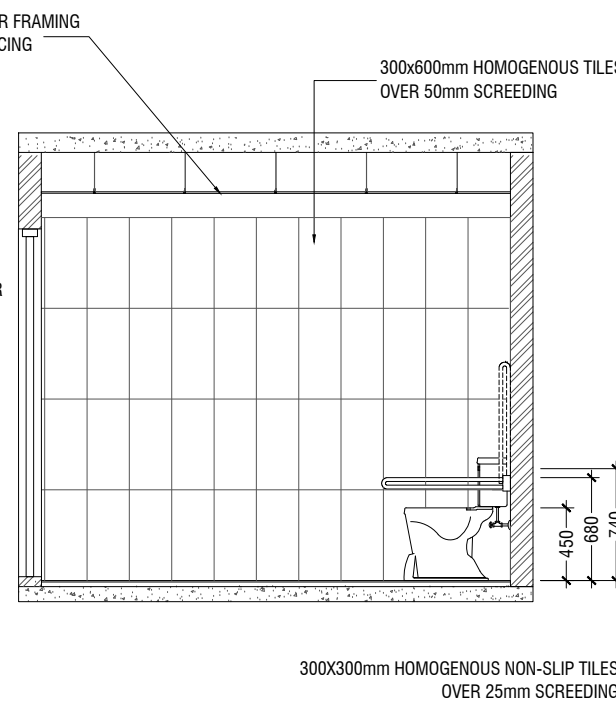
ALL THE MATERIALS FOR FIXTURES SHALL BE APPROVED  
BY THE ARCHITECT/CONSULTANT BEFORE INSTALLATION

GRAB BARS OF THE DISABLE TOILET SHALL BE AS PER MANUFACTURE'S DETAIL



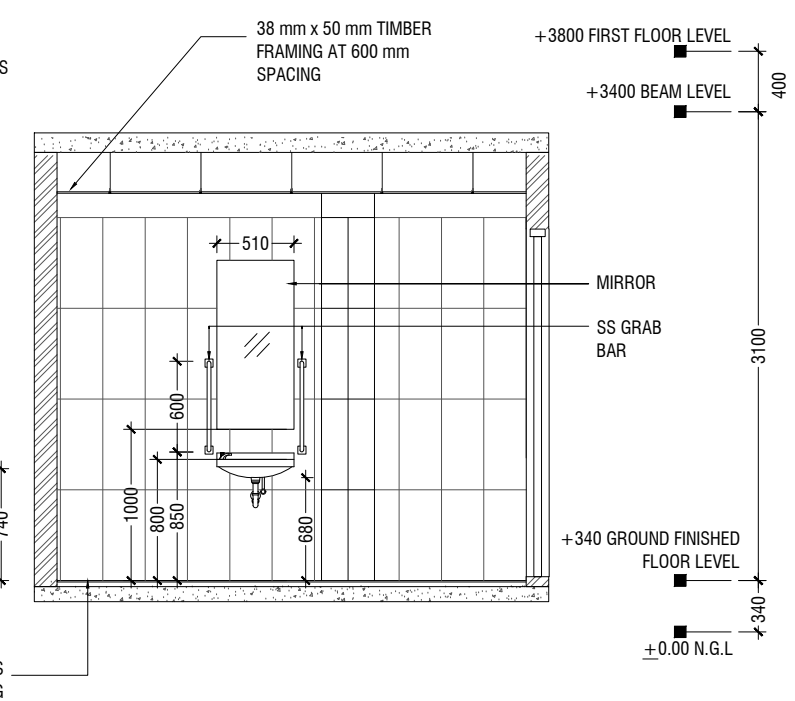
**SECTION B1-B1**

SCALE 1:50



**SECTION B2-B2**

SCALE 1:50



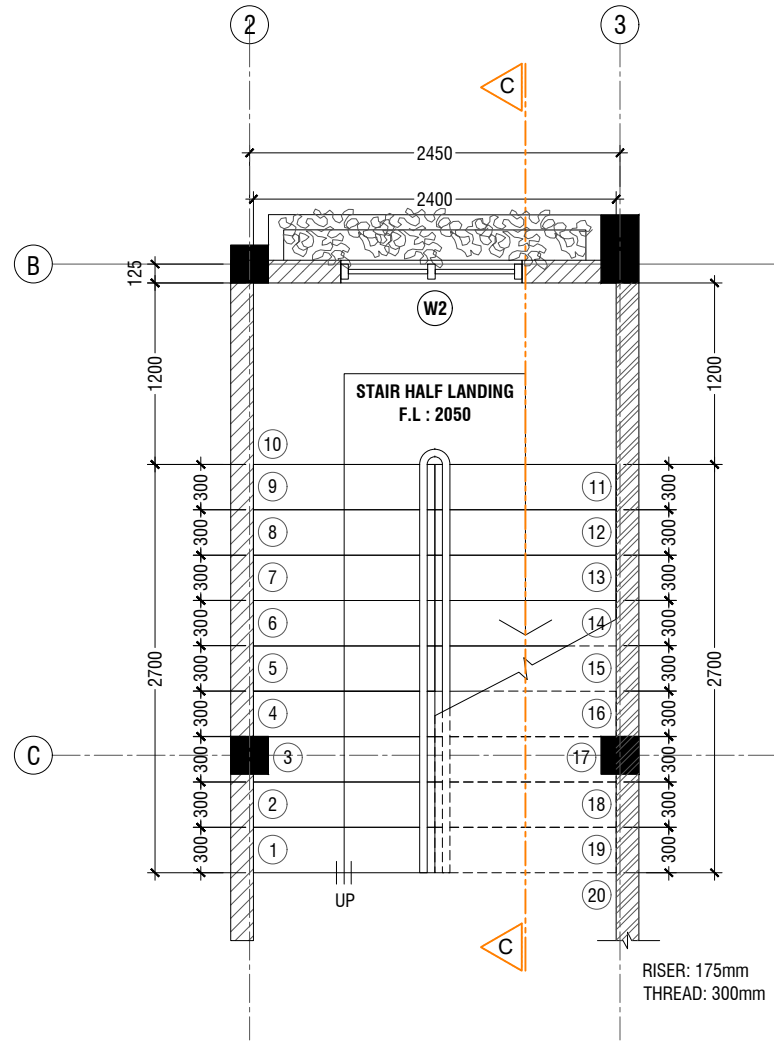
**SECTION B3-B3**

SCALE 1:50



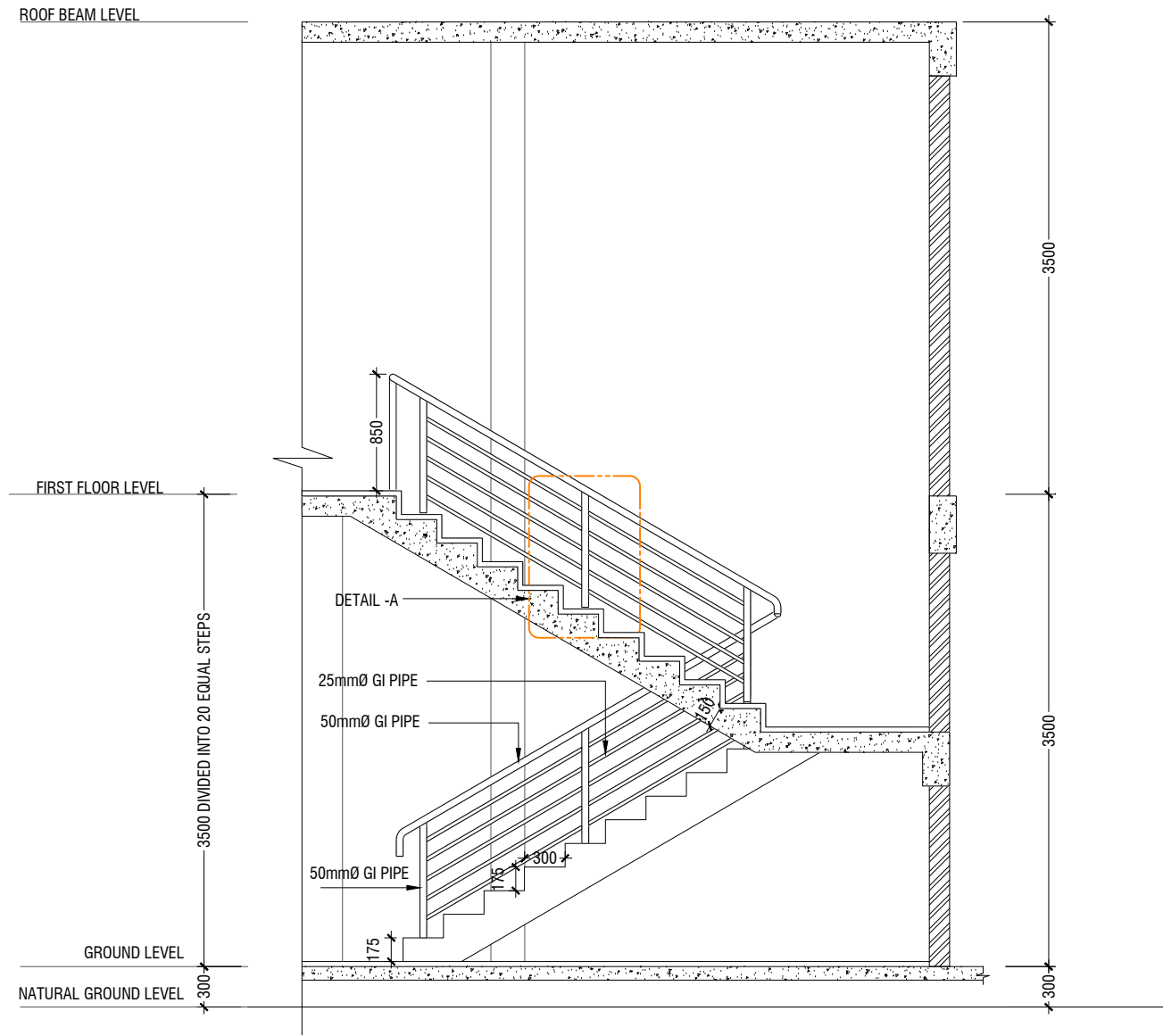
R. Ungoofaaru School Hall  
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Project Number	.....	Date	.....
Rev no	.....	Architect	.....
.....	.....	Engineer	.....
.....	.....	Drawn by	.....
.....	.....	Services	.....
.....	.....	Interior	.....



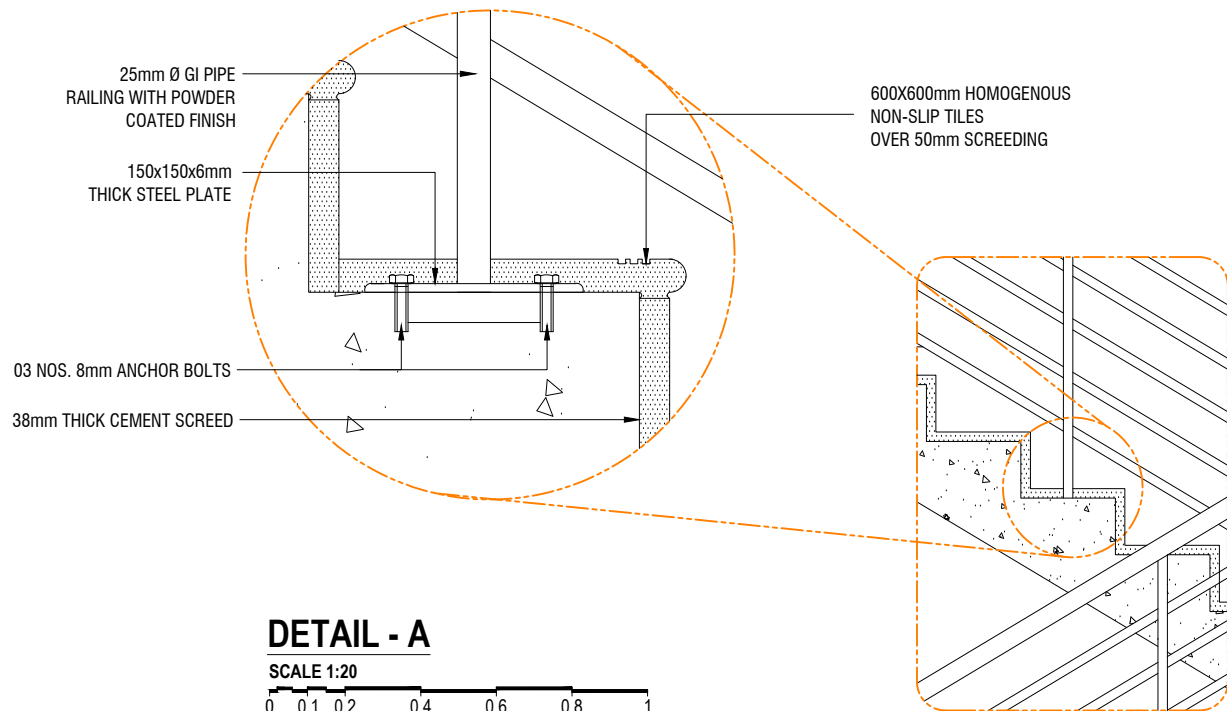
**MAIN STAIRCASE PLAN**

SCALE 1:50  
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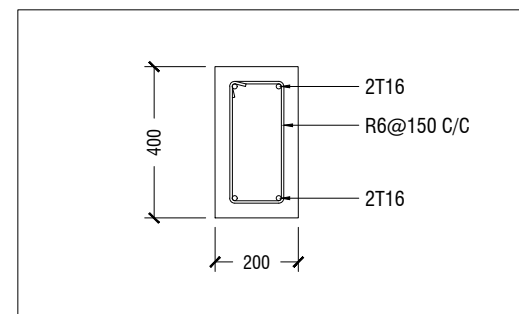
**SECTION C-C**

SCALE 1:50  
0 0.25 0.5 1 1.5 2 2.5



**DETAIL - A**

SCALE 1:20  
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**STAIR HALF LANDING BEAM (HB)**

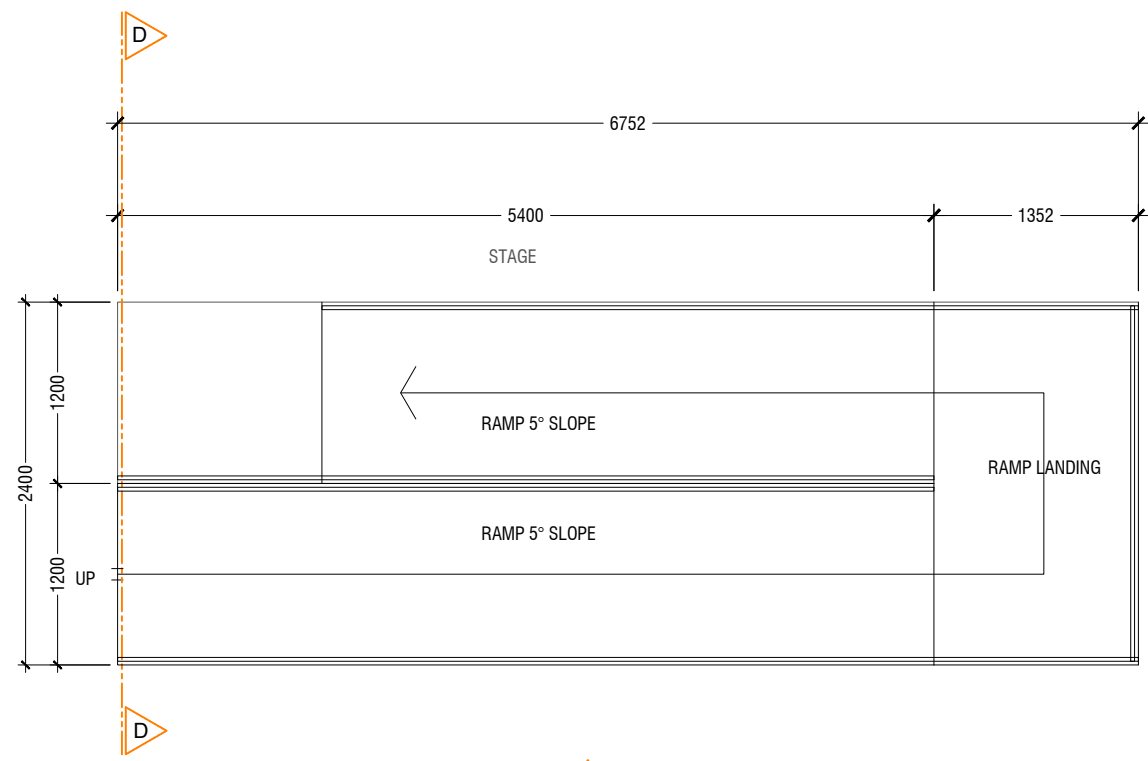
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**MAIN STAIRCASE DETAILS**

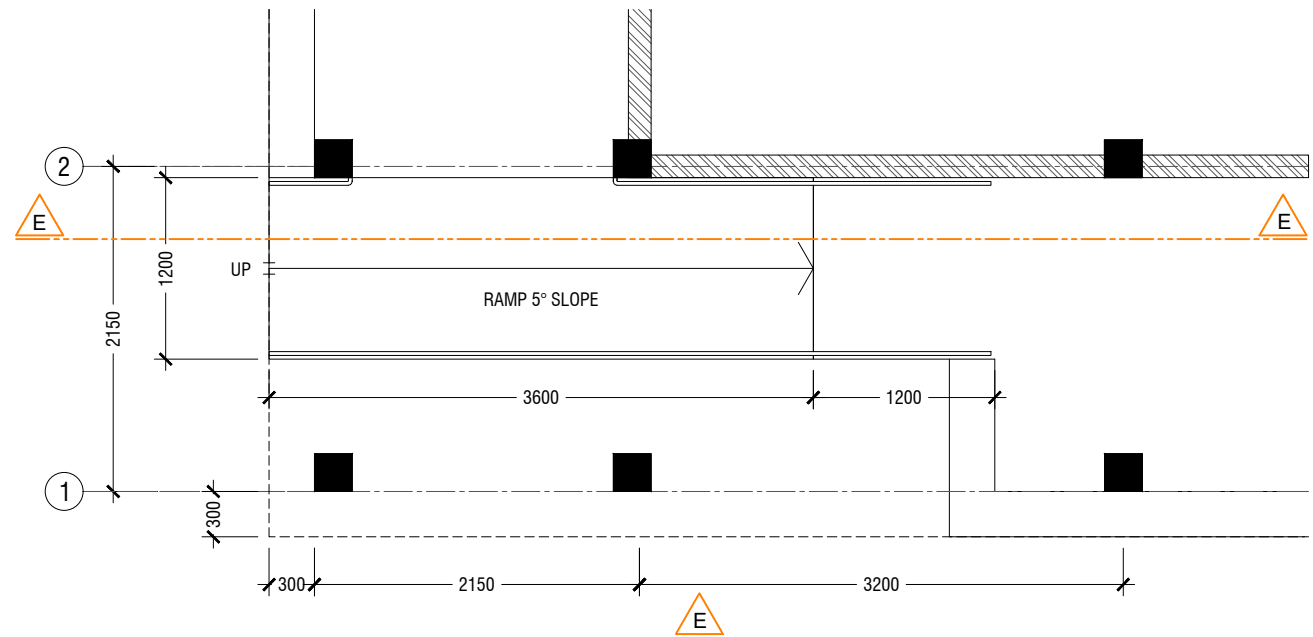
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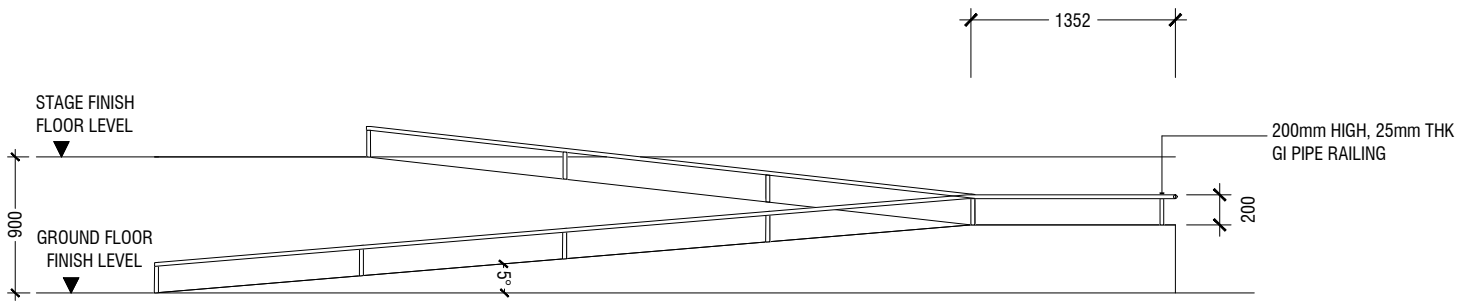
Project Number	.....	Date	.....
Date	February 2024	Architect	.....
Engineer	.....	Drawn by	.....
Services	.....	Interior	.....
Rev no	.....		.....



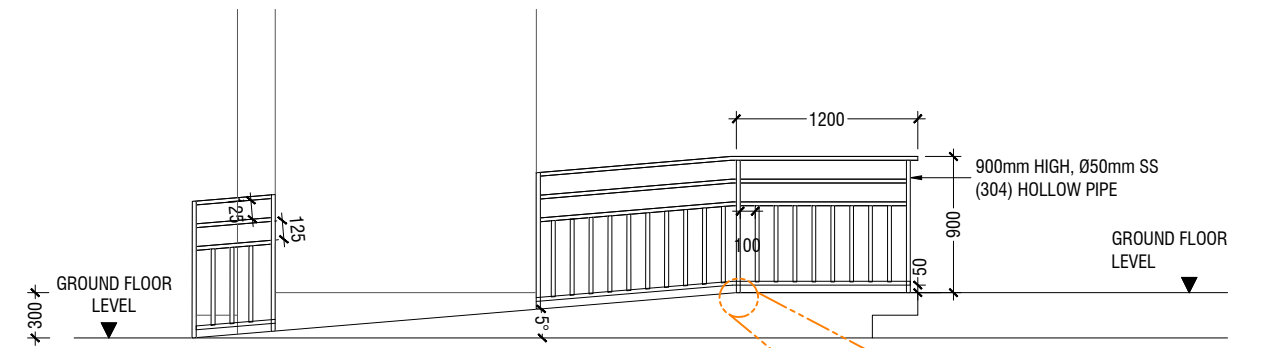
**STAGE RAMP PLAN**



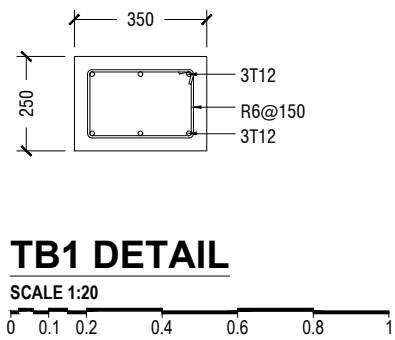
**BUILDING ENTRANCE RAMP PLAN**



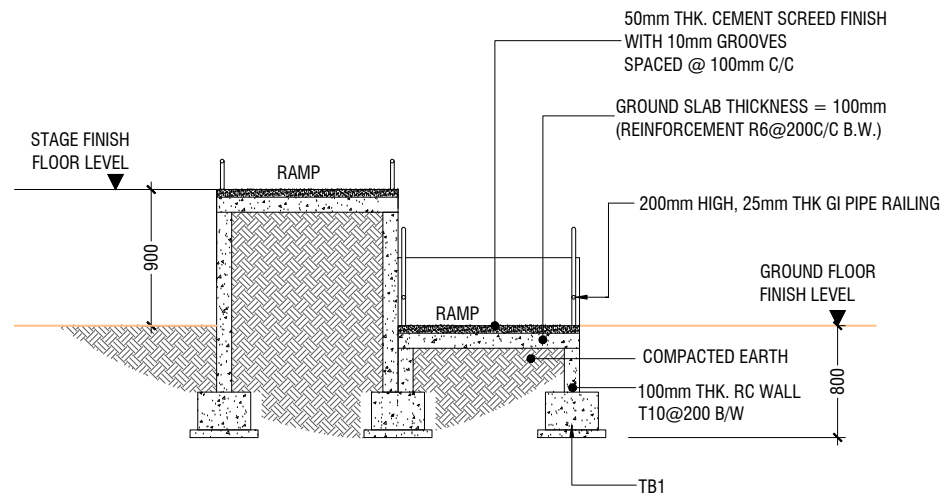
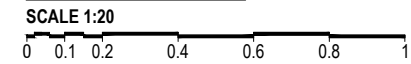
**ELEVATION D**



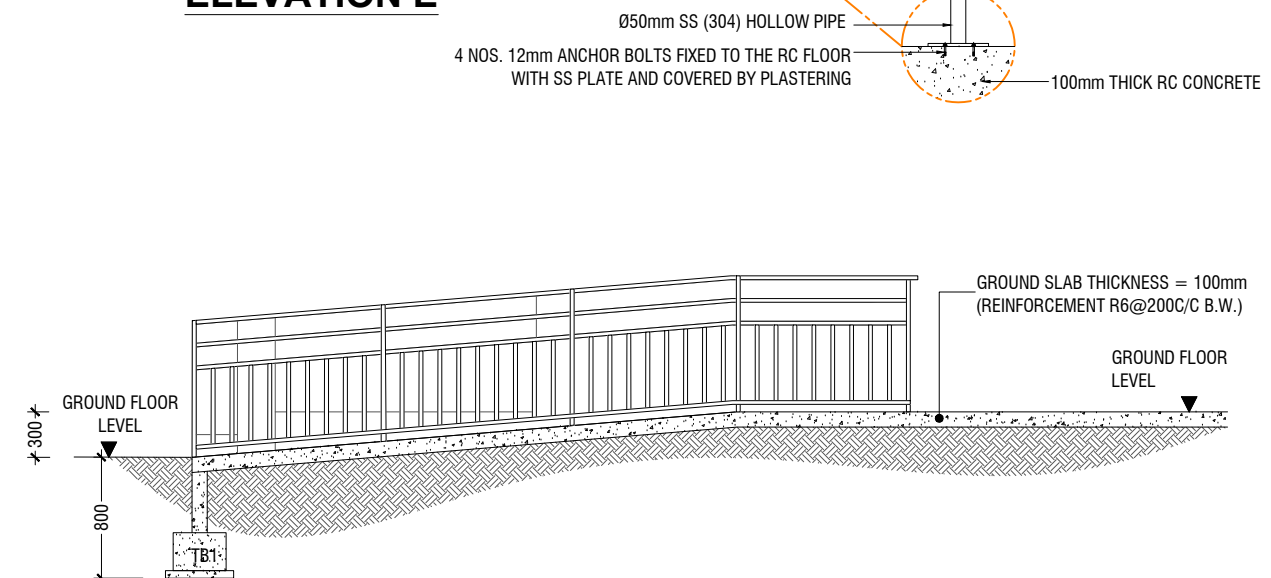
**ELEVATION E**



**TB1 DETAIL**

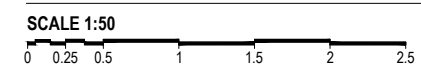


**SECTION D-D**



**SECTION E-E**

**MAIN ENTRANCE RAMP DETAIL**

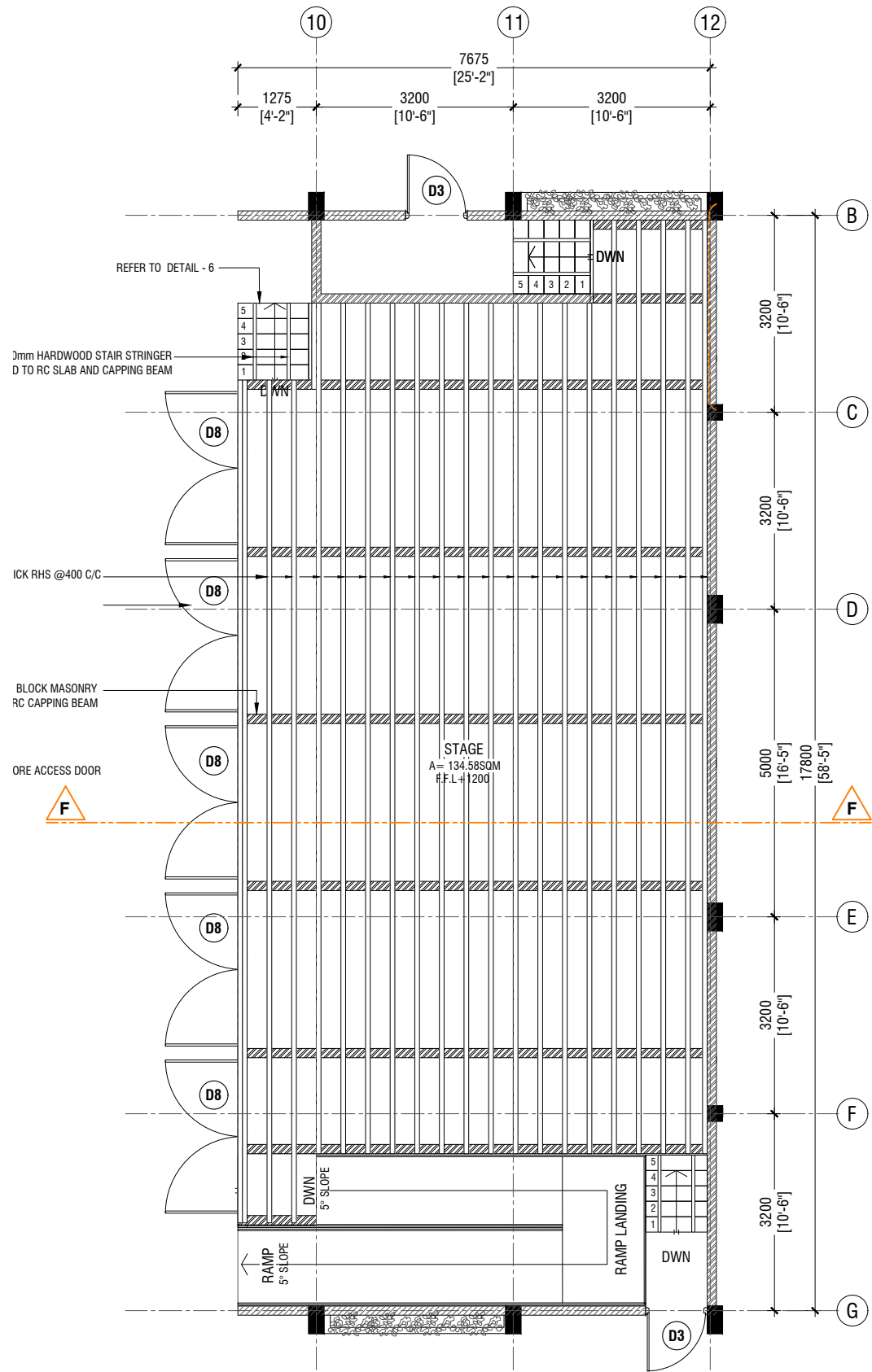


**STAGE RAMP DETAIL**



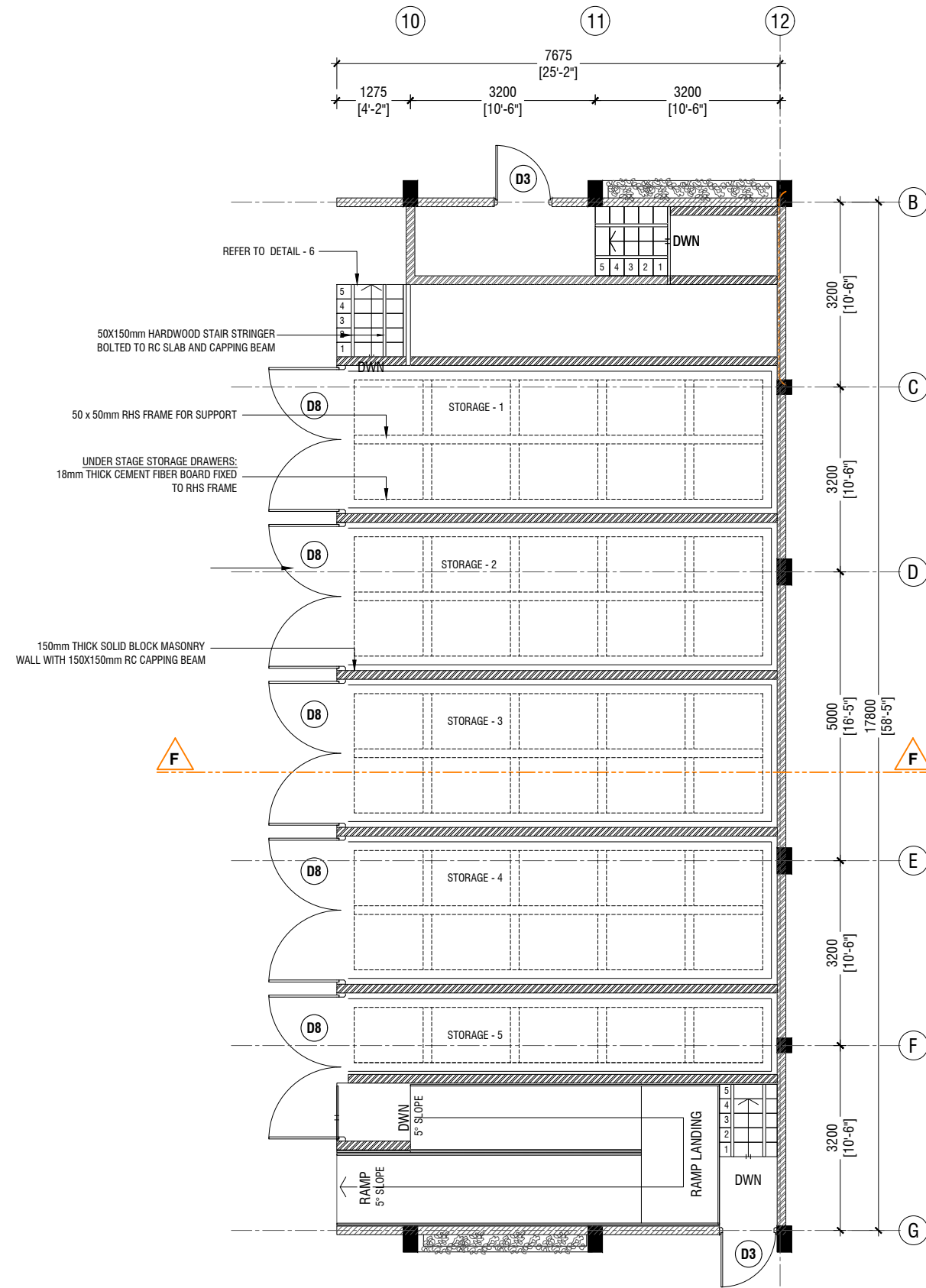
R. Ungoofaaru School Hall  
Client: Ministry of Education

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Date	February 2024	Architect	.....
Engineer	.....	Drawn by	.....
Services	.....	Interior	.....
Rev no	.....		



**STAGE FRAMING PLAN**

SCALE 1:100



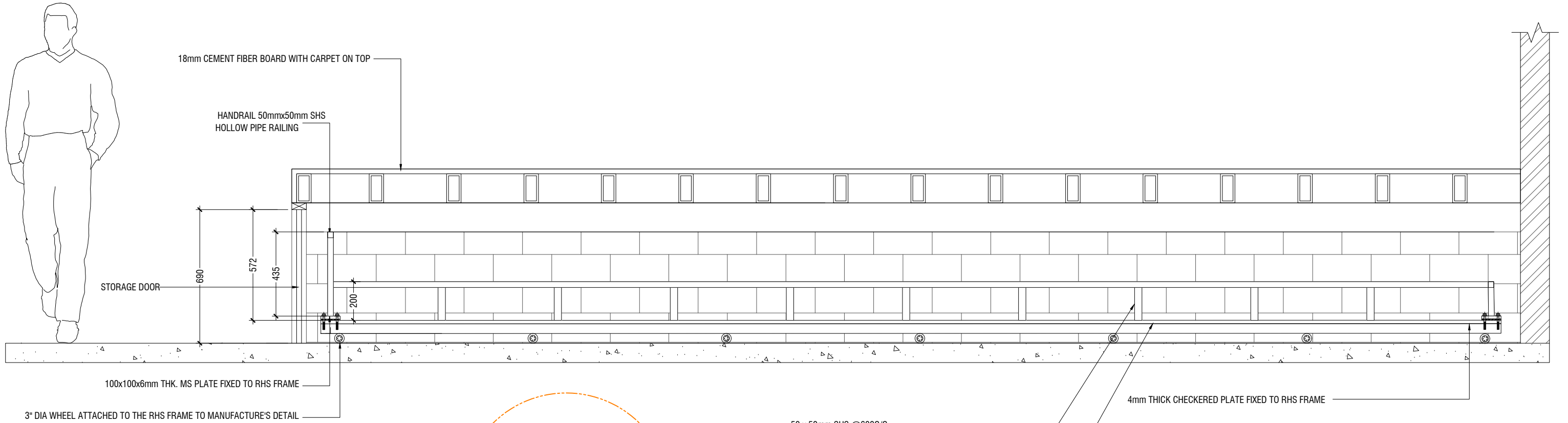
**STAGE DRAWERS PLAN**

SCALE 1:100



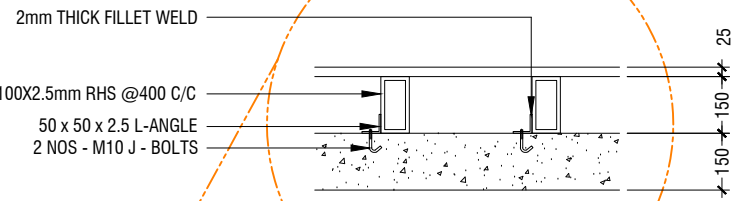
R. Ungoofaaru School Hall  
Client: Ministry of Education

Project Number	.....	Date	.....
Date	February 2024	Rev no	.....
Architect	.....	.....	.....
Engineer	.....	.....	.....
Drawn by	.....	.....	.....
Services	.....	.....	.....
Interior	.....	.....	.....



**SECTION F-F**

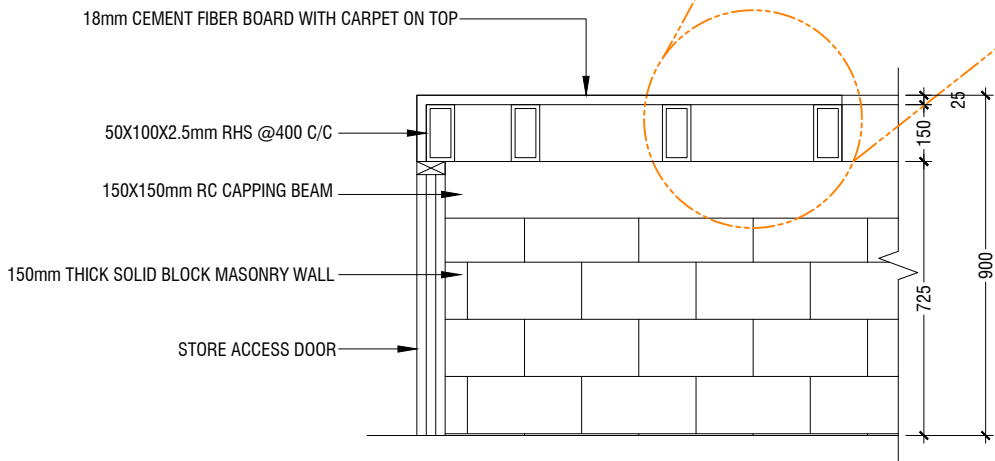
SCALE 1:20  
0 0.1 0.2 0.4 0.6 0.8 1



50 x 50mm SHS @600C/C  
AROUND THE DRAWER

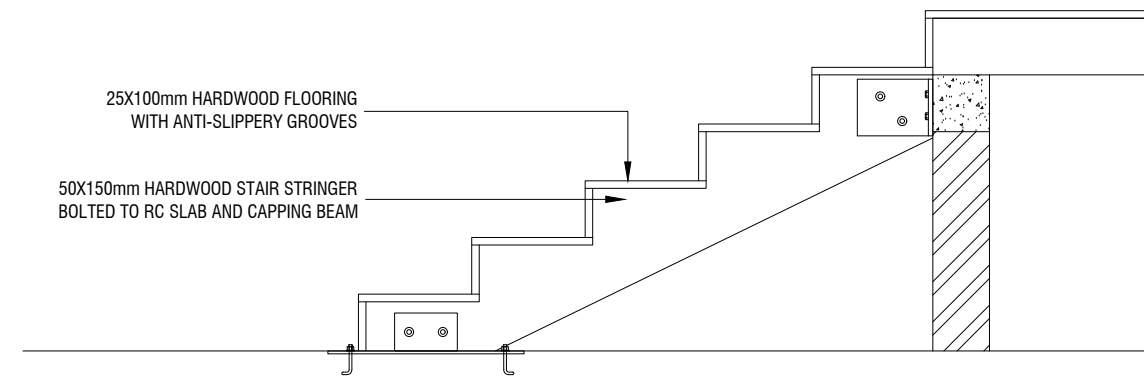
50 x 50mm RHS @600C/C

4mm THICK CHECKERED PLATE FIXED TO RHS FRAME



**SECTION F-F**

SCALE 1:20  
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**STAIR DETAIL**

SCALE 1:20  
0 0.1 0.2 0.4 0.6 0.8 1

**STAGE DETAILS**

SCALE 1:100  
0 0.5 1 2 3 4 5

R. Ungoofaaru School Hall  
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Project Number	Date	Rev no	Interior
.....	February 2024	1	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....



## GENERAL NOTES

THE GENERAL NOTES SHALL BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS. REGARDLESS OF WHETHER OR NOT SHOWN IN DRAWINGS OR OTHER TENDER DOCUMENTS, THE STANDARD PROVISIONS SPECIFIED HEREUNDER FOR COMPLIANCE BY THE CONTRACTOR SHALL APPLY TO ALL RELEVANT PORTIONS OF THE STRUCTURAL WORKS AND SHALL FORM PART OF THIS CONTRACT.

### 1.0 VERIFICATION OF DIMENSIONS AND LEVELS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS ON SITE, AND RESOLVE ALL DISCREPANCIES WITH THE ARCHITECT OR ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- DRAWING INDICATES GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE OF SIMILAR CHARACTER TO DETAILS SHOWN AND ALTHOUGH NOT SPECIFICALLY INDICATED, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE ENGINEER.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS IN THE CONTRACT DRAWINGS.
- DISCREPANCIES IN DRAWINGS ARISING FROM SUCH VERIFICATION WORKS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

### 2.0 SHOP DRAWINGS

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF ALL WORKS AND SHALL TAKE SITE MEASUREMENTS PRIOR TO THE PREPARATION OF ANY SHOP DRAWINGS OR BEFORE COMMENCING FABRICATION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL SPECIALIST TRADES, SUCH AS PRESTRESSING, CURTAIN WALLING, ETC. FOR REVIEWS AND COMMENTS BY THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK. SUCH SHOP DRAWINGS SUBMITTED SHALL INCORPORATE ALL NECESSARY CONNECTION DETAILS TO THE STRUCTURAL MEMBERS SUCH AS CAST-IN INSERTS, EMBEDDED PLATES, ETC.

### 3.0 INCORPORATION OF M&E REQUIREMENTS IN THE STRUCTURE

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF STRUCTURAL, M & E PENETRATION DRAWINGS OF SERVICES AND SUBMIT SUCH SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEWS AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- THESE SHOP DRAWINGS SHALL INCORPORATE ALL MECHANICAL, ELECTRICAL AND SANITARY WORKS TO BE EMBEDDED IN CONCRETE AND ALL OPENINGS FOR ALL PIPE OR DUCT WORKS, BASED ON THE REQUIREMENTS OF M & E DRAWINGS IN HIS POSSESSION.
- HE SHALL CHECK AND RESOLVE ALL DISCREPANCIES WITH THE RESPECTIVE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

### 4.0 LEAN CONCRETE FOR SUSPENDED STRUCTURES

- UNLESS OTHERWISE STATED, 50 MM THICK LEAN CONCRETE WITH A MINIMUM 28-DAY CUBE STRENGTH OF 15N/MM<sup>2</sup> SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF STRUCTURAL CONCRETE MEMBERS.

### 5.0 STRUCTURAL ELEMENTS ON GRADE

- UNLESS OTHERWISE STATED, A SINGLE LAYER OF 0.25 MM (HEAVY DUTY) POLYTHENE SHEET, OR EQUIVALENT THERMOPLASTIC MATERIAL, LAID OVER A COMPACTED 60 MM THICK LAYER OF HARD CORE BLINDED WITH SAND TO PREVENT GROUT LOSS FROM SEEPAGE INTO THE GROUND SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF THE NON-SUSPENDED SLABS.

### 6.0 SUBGRADE UNDER STRUCTURAL ELEMENTS

- WHERE THE CONTRACTOR REQUIRES REMOVAL AND SUBSEQUENT BACKFILL OF SUBGRADE PRIOR TO CASTING OF PILECAP/WALL/BEAM/SLAB, HE SHALL ENSURE THAT THE BACKFILL IS OF APPROVED MATERIAL AND THAT THE BACKFILL SHALL BE REASONABLY COMPACTED TO ENSURE THAT THE COMPACTED SOIL IS ABLE TO WITHSTAND THE WEIGHT OF THE WET CONCRETE. THE CONTRACTOR SHALL EXERCISE PROPER SKILL AND CARE TO AVOID DAMAGE TO ADJACENT INSTALLED STRUCTURES ARISING FROM HIS CONSTRUCTION SEQUENCE.

### 7.0 WATERPROOFING FOR STRUCTURES

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND METHOD STATEMENTS FOR THE ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF WORK. REQUIRED SHOP DRAWING DETAILS INCLUDE BUT ARE NOT LIMITED TO TREATMENT OF FLASHINGS, WATERSTOP AT CONSTRUCTION JOINTS, WALL AND SLAB PENETRATIONS.
- ALL PENETRATIONS THROUGH STRUCTURAL ELEMENTS SHALL BE CAST-IN, SLEEVED AND PROVIDED WITH APPROVED PUDDLE FLANGE DETAIL. IF FOR ANY REASON THE CONTRACTOR IS UNABLE TO LAY WATERSTOP AT CONSTRUCTION JOINTS AS INDICATED IN THE DRAWINGS, HE SHALL AT HIS OWN EXPENSES PROVIDE ADEQUATE GROUT TUBES FOR WATERPROOF PRESSURE GROUTING TO ENSURE WATERTIGHTNESS OF THE JOINT.
- ALL GROUT TUBES SHALL BE MARKED AND PROTECTED FROM BLOCKAGE.
- BACKFILLING OPERATIONS AGAINST VERTICAL SURFACE SHALL BE CARRIED OUT AS SOON AS THE WATERPROOFING BARRIER IS INSTALLED TO THE SATISFACTION OF THE ENGINEER.

### 8.0 CASTING LAYERS

- INCLINED CASTING LAYERS AND INCLINED CONSTRUCTION JOINTS SHALL BE AVOIDED.
- HORIZONTAL CASTING LAYERS SHALL NOT IN GENERAL EXCEED 0.6 M THICKNESS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

### 9.0 FOUNDATIONS

- ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 150 KN/M.
- ALL BACKFILL SHOULD BE DONE WITH MATERIALS APPROVED BY THE CONSULTANT AND SOURCE. ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
- WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
- IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVEL OF THE FOUNDATION, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
- IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING THE BELOW LEVEL OF FOUNDATIONS.
- THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGH OUT THE CONSTRUCTION PERIOD. RESTORING WATER TABLE CAN BE DONE AFTER BACKFILLING AND COMPACTION UP TO THE SLAB ON GRADE LEVEL, OR AS DIRECTED BY THE ENGINEER.
- NO BACK FILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.

### 10.0 CONSTRUCTION LOAD AND SHORING

- CONSTRUCTION LIVE LOAD IMPOSED ON ANY SINGLE FLOOR SHALL NOT EXCEED 1.5 KN/M<sup>2</sup>. UNLESS OTHERWISE APPROVED BY THE ENGINEER, DEAD LOAD OF THE TOP CONSTRUCTION FLOOR SHALL BE SUPPORTED BY TWO COMPLETED FLOORS DIRECTLY BELOW IT.
- PROPS TO BEAMS AND SLABS AT ANY FLOORS SHALL NOT BE REMOVED UNTIL THE TWO IMMEDIATE FLOORS ABOVE THAT LEVEL ARE CAPABLE OF SUPPORTING THEMSELVES AS WELL AS ANY LOADS IMPOSED DURING CONSTRUCTION. CONSIDERATIONS GOVERNING REMOVAL OF PROPS INCLUDE BUT ARE NOT LIMITED TO THE ATTAINMENT OF 28-DAY STRENGTH FOR THE CONCRETE, DESIGN LOAD CAPACITY OF THE FLOOR UNDER REVIEW AND THE COMPLETION OF PRESTRESSING AND GROUTING OPERATIONS IN THE CASE OF A PRESTRESSED STRUCTURAL FLOOR SYSTEM.

- PROPS SHALL BE LEFT IN PLACE FOR SUPPORTING THE CONSTRUCTION LOADS APPROVED BY THE ENGINEER.
- NO ALLOWANCE HAS BEEN MADE IN THE DESIGN OF THE PERIMETER BEAMS/WALLS FOR THE SUPPORT OF TEMPORARY SCAFFOLDINGS.
- THE CONTRACTOR SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER TO DESIGN AND STRENGTHEN THE BEAMS/WALLS.
- THE CONTRACTOR SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER CHECK THE ADEQUACY OF SHORING DETAIL PROVIDED PROCEEDING THE WORK, AS SHORING WAS DESIGNED, CONSIDERING THE STATUS OF THE BUILDING AT THE TIME OF DESIGN.

### 11.0 CONCRETE COVER

- MINIMUM COVER TO OUTERMOST REINFORCEMENT INCLUDING LINKS SHALL BE AS FOLLOWS.

STRUCTURAL ELEMENT	COVER (mm)
RAFT BEAM & SLAB (EARTH FACE)	60
RAFT BEAM & SLAB (INTERNAL FACE)	60
COLUMN	40
BEAM	35
BEAM (EXTERNAL FACE)	40
SLAB	30
INTERNAL WALL	30
EXTERNAL WALL	40

- NOTE: EARTH FACE COVER OF BEAMS, COLUMNS & WALLS SHOULD BE 50mm

### 12.0 MATERIAL STRENGTHS

#### 12.1 CONCRETE

- UNLESS OTHERWISE STATED, ORDINARY PORTLAND CEMENT CONFORMING TO BS 12, TO BE USED FOR ALL THE RC STRUCTURAL ELEMENTS.
- THE MINIMUM 28-DAY COMPRESSIVE CUBE STRENGTH OF CONCRETE FOR SPECIFIED STRUCTURAL ELEMENTS SHALL BE AS FOLLOWS UNLESS OTHERWISE STATED:

<b>MAIN BUILDING</b>	
LEAN CONCRETE	15 N/mm <sup>2</sup>
MASS CONCRETE	30 N/mm <sup>2</sup>
COLUMN, BEAM AND SLAB	30 N/mm <sup>2</sup>
<b>EXTERNAL WORK</b>	
PAVEMENTS	30 N/mm <sup>2</sup>
ALL OTHERS (CULVERT, DRAINS, MANHOLE, ETC)	30 N/mm <sup>2</sup>
<b>FOUNDATION</b>	
PILECAP, FOOTING, RAFT TIE-BEAM, CAPPING BEAM	30 N/mm <sup>2</sup>

- CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS 12.

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**12.2 REINFORCEMENT**

• UNLESS OTHERWISE STATED, BAR SIZE 10MM DIAMETER OR LARGER SHALL BE HIGH TENSILE TYPE II DEFORMED BARS. THE MINIMUM YIELD STRENGTH OF STEEL BAR REINFORCEMENT SHALL BE AS FOLLOWS:

MILD STEEL PLAIN BAR	250 N/mm <sup>2</sup>
HIGH TENSILE TYPE II DEFORMED BAR	415 N/mm <sup>2</sup>

**12.25 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.**

	BAR GRADE 415
TENSION	45Ø
COMPRESSION	45Ø

Ø IS DIAMETER OF THE SMALLER SIZED LAPPED BAR.

• NO SPLICE SHALL BE MADE AT POINT OF MAXIMUM STRESS, EG IN BEAMS AND SLABS, THERE SHALL BE NO SPLICING OF TOP BARS OVER SUPPORTS NOR BOTTOM BARS AT MID-SPANS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE. LAP LENGTH FOR UNEQUAL SIZE BARS (OR WIRES IN FABRIC) MAY BE BASED UPON THE SMALLER BAR. FOR BUNDLED BARS, THE EQUIVALENT DIAMETER SHALL BE USED. CRANKING OF BARS SHALL NOT EXCEED A SLOPE OF 1:10.  
 • FOR LAP LENGTH, WHERE SYMBOLS ARE NOT INDICATED, THE TENSION LAP LENGTH SHALL BE FOLLOWED.

**13.0 STIRRUPS, LINKS AND TIES**

• ALL STIRRUPS, LINKS AND TIES IN BEAMS, COLUMNS AND WALLS RESPECTIVELY SHALL TERMINATE NOT MORE THAN 75mm FROM THE FACE OF ANY ADJACENT STRUCTURAL MEMBERS.

**14.0 SLAB DISTRIBUTION BARS**

• REGARDLESS OF WHETHER OR NOT SHOWN ON PLAN, ALL DISTRIBUTION BARS FOR SLAB SHALL COMPRISE TYPICALLY ONE OF THE FOLLOWING COMBINATIONS, UNLESS OTHERWISE STATED IN THE RELEVANT DRAWINGS :

SLAB THICKNESS (mm)	MIN. DISTRIBUTION BAR
250 OR LESS	T10-300
GREATER THAN 250 BUT LESS THAN OR EQUAL TO 300	T10-200
GREATER THAN 300 BUT LESS THAN OR EQUAL TO 400	T10-150

**15.0 FLOOR RENDERING**

• THICKNESS OF SCREED RENDERING/MASS CONCRETE TOPPING EXCEEDING 60 OR MORE SHALL BE REINFORCED WITH ONE LAYER OF R6.

**16.0 SHRINKAGE CRACKS**

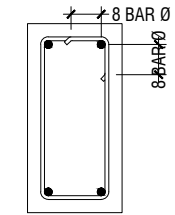
• THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS. THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE, THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING UP OF SHRINKAGE CRACKS BY EPOXY PRESSURE GROUTING SHALL BE DEEMED TO BE INCLUDED IN THE CONCRETE WORK AS TENDERED.

**17.0 STEEL BAR CORROSION PROTECTION**

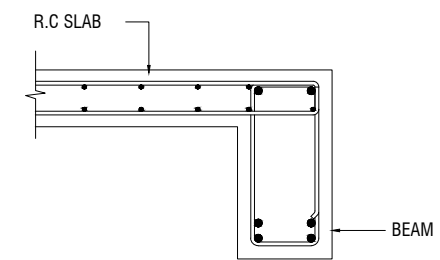
• ALL EXPOSED BARS FOR FUTURE CONSTRUCTION PURPOSES (EXCEEDING 3 MONTHS) MUST BE COATED WITH MASTER EMACO 8100 AP OR APPROVED EQUIVALENT AND PROVIDED WITH ADEQUATE MAINTENANCE.

**18.0 SPACER BARS**

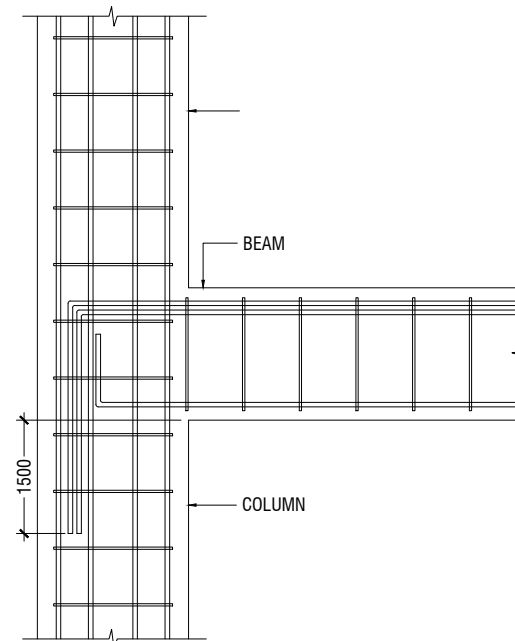
• ALL SPACER BARS BETWEEN 2 OR MORE LAYERS OF REINFORCEMENT SHALL T25 OR BAR DIAMETER (WHICHEVER IS GREATER) AT ±1-5M C/C.



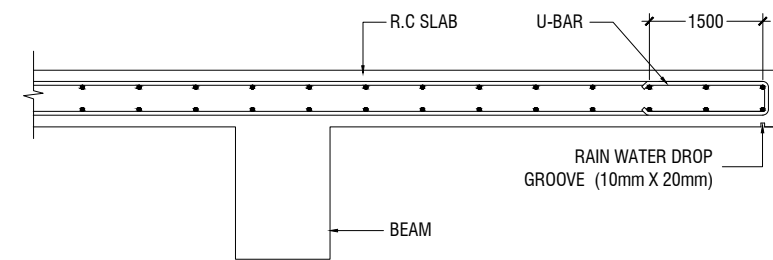
Ø = DIA OF LINK  
**SHEAR LINKS ANCHORAGE DETAIL**



**SLAB-BEAM ANCHORAGE DETAIL**



**BEAM TO COLUMN CONNECTION**



**CANTILEVERED SLAB EDGE DETAIL**

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19.0 STRUCTURAL TIMBER SPECIFICATION

19.1 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY.

19.2 THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

19.3 ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

19.4 ALL TIMBER FOR STRUCTURAL USE SHALL BE HARDWOOD OR SOFTWOOD OF VISUAL GRADE C/D IN ACCORDANCE WITH BS 5756 WITH THE FOLLOWING MINIMUM GRADE STRESSES:

19.5 CONNECTIONS

PLATES - STAINLESS STEEL GRADE 316 OF STATED THICKNESS  
BOLTS - SS GRADE 316

19.6 TIMBER TREATMENT

MOISTURE - PRESSURE IMPREGNATION OF CCA  
INSECTS - TERMITE TREATMENT FOR TIMBER IN / NEAR GROUND

20.0 STRUCTURAL STEEL SPECIFICATION

1. SEE 21.0 ON PRIMARY CODES AND SPECIFICATIONS.

2. MATERIALS:

W-SHAPES & WT-SHAPES..... ASTM A992  
S-SHAPES, M-SHAPES, HP-SHAPES..... ASTM A36  
ST-SHAPES & MT-SHAPES..... ASTM A36  
C-SHAPES & MC-SHAPES..... ASTM A36  
ANGLES & PLATES..... ASTM A36  
HSS SHAPES..... ASTM A500, GRADE B  
STEEL PIPE..... ASTM A53 (TYPE E OR S), GRADE B  
HIGH STRENGTH BOLTS..... ASTM A325  
MACHINE BOLTS..... ASTM A307  
ANCHOR RODS.....ASTM F1554, GRADE 55 TYPE S1(UNO)  
WELDED HEADED STUDS..... ASTM A108  
DEFORMED BAR ANCHORS..... ASTM A496  
WELDING ELECTRODES..... AWS D1.1, E70 SERIES

3. NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 35MPa SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO BS EN 12390-3 AND EN 196-1. MASTERFLOW 542 OR EQUIVALENT MAYBE USED.

23.0 POST-INSTALLED ANCHORS

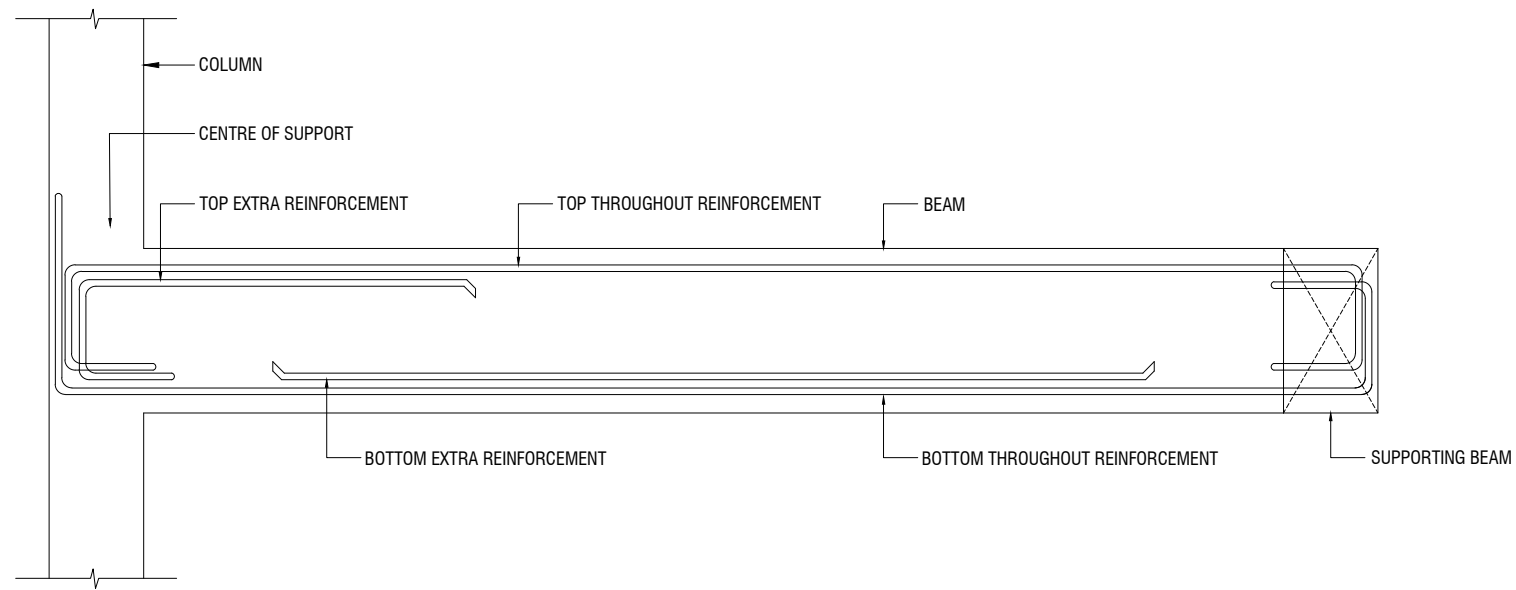
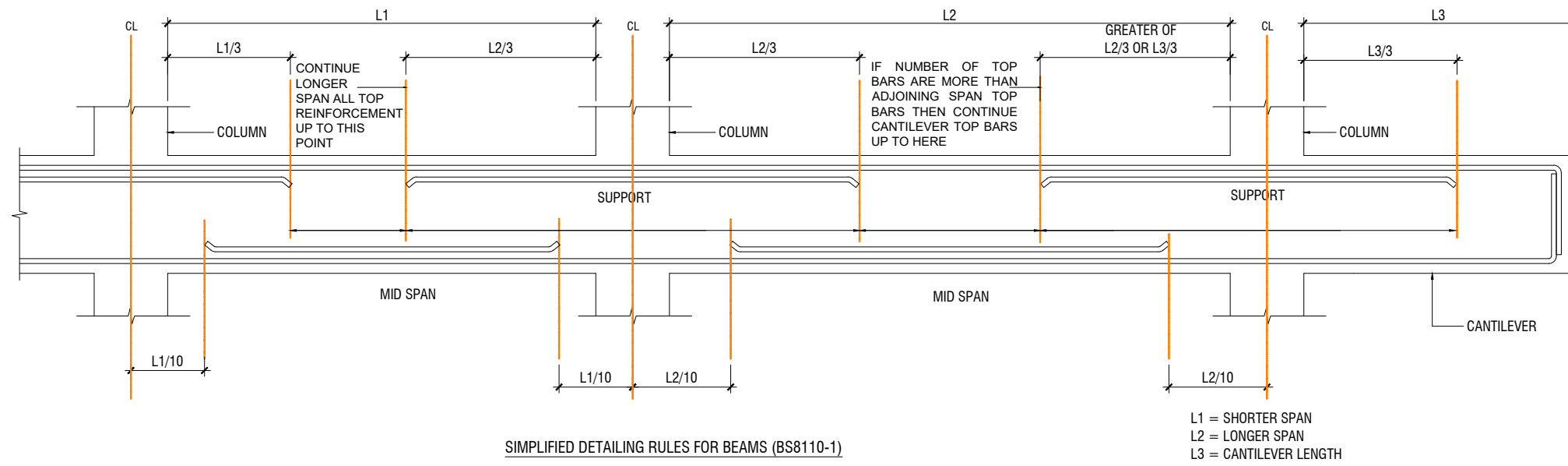
1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD (EOR) PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSINGS OR MISPLACED ANCHORS.

2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.

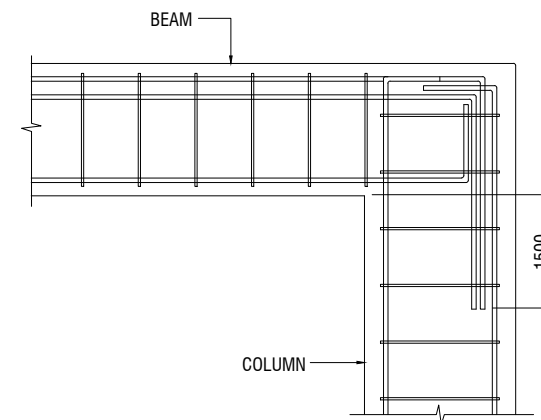
3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE AND MECHANICAL ANCHOR INSTALLATIONS AS REQUIRED BY THE EOR. INDEPENDENT ON-SITE PROOF LOAD TESTING SHALL BE PERFORMED AS REQUIRED BY THE EOR. CONTACT EOR FOR NUMBER OF ANCHORS REQUIRED TO BE TESTED AND REQUIRED PROOF LOAD MAGNITUDE.

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**LONGITUDINAL SECTION OF TYPICAL SLAB BEAM SPANNING BETWEEN A COLUMN AND BEAM  
SHOWING END SPAN MID SPAN REINFORCEMENT DETAILS**

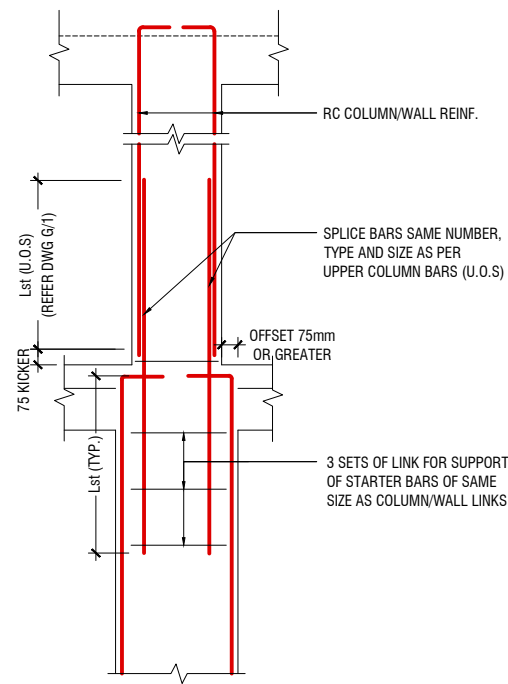


**END COLUMN TO BEAM CONNECTION**

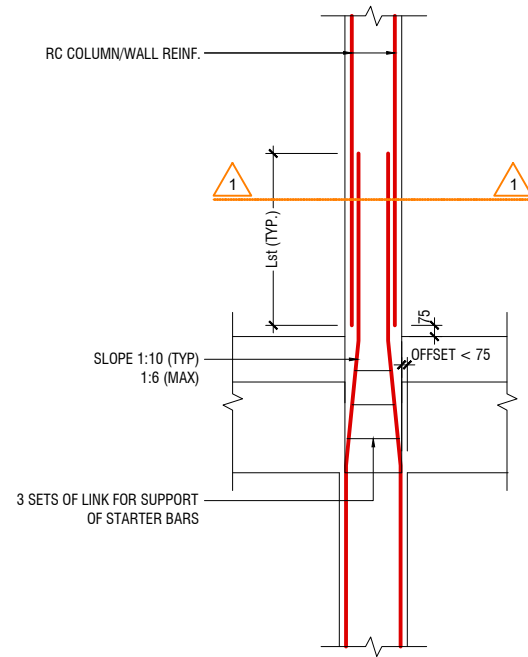
NOTE:  
STANDARD DETAILS GIVEN HERE ALSO APPLIES TO FOUNDATION MEMBERS  
OTHER DETAILS NOT FOUND HERE SHALL BE REFEREED TO IN RELEVANT BS  
CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER

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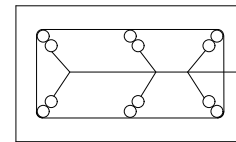


A) FOR COLUMN OFFSET > 75mm  
TO BE VERIFIED BY THE CONSULTING ENGINEER



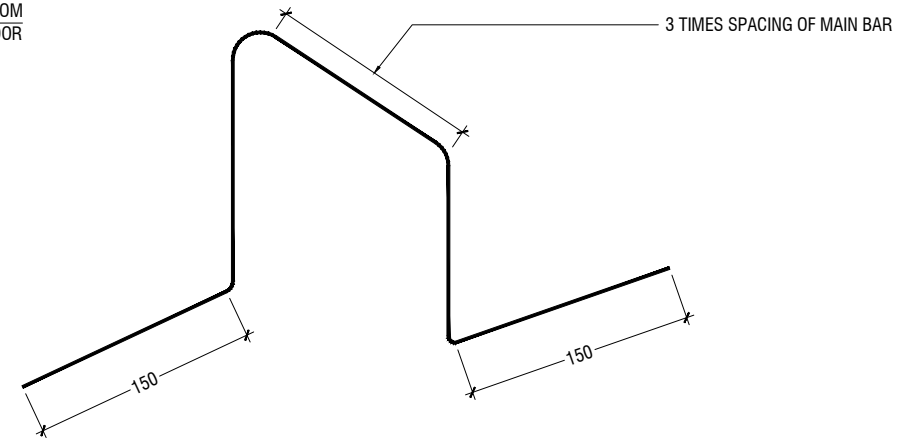
B) FOR COLUMN OFFSET < 75mm

**COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL**

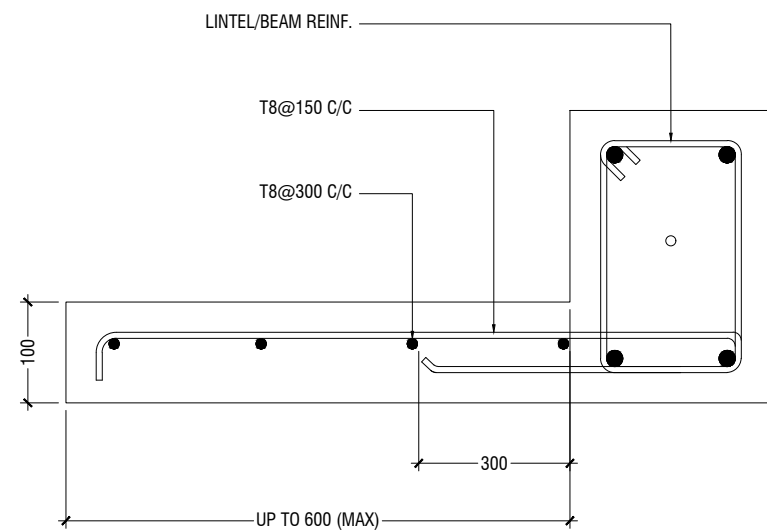


**SECTION-1-1**

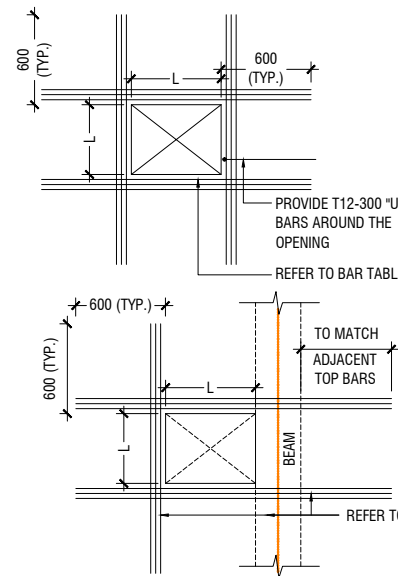
REINF. FROM LOWER FLOOR



**TYPICAL CHAIR DETAIL**



**TYPICAL CANTILEVER DETAILS**



FLOOR OPENING (L)	ADD BARS
LESS THAN 250	3T12 T & B
L = > 250 < 500	3T16 T & B
L = ≥ 500 < 1000	3T16 T & B

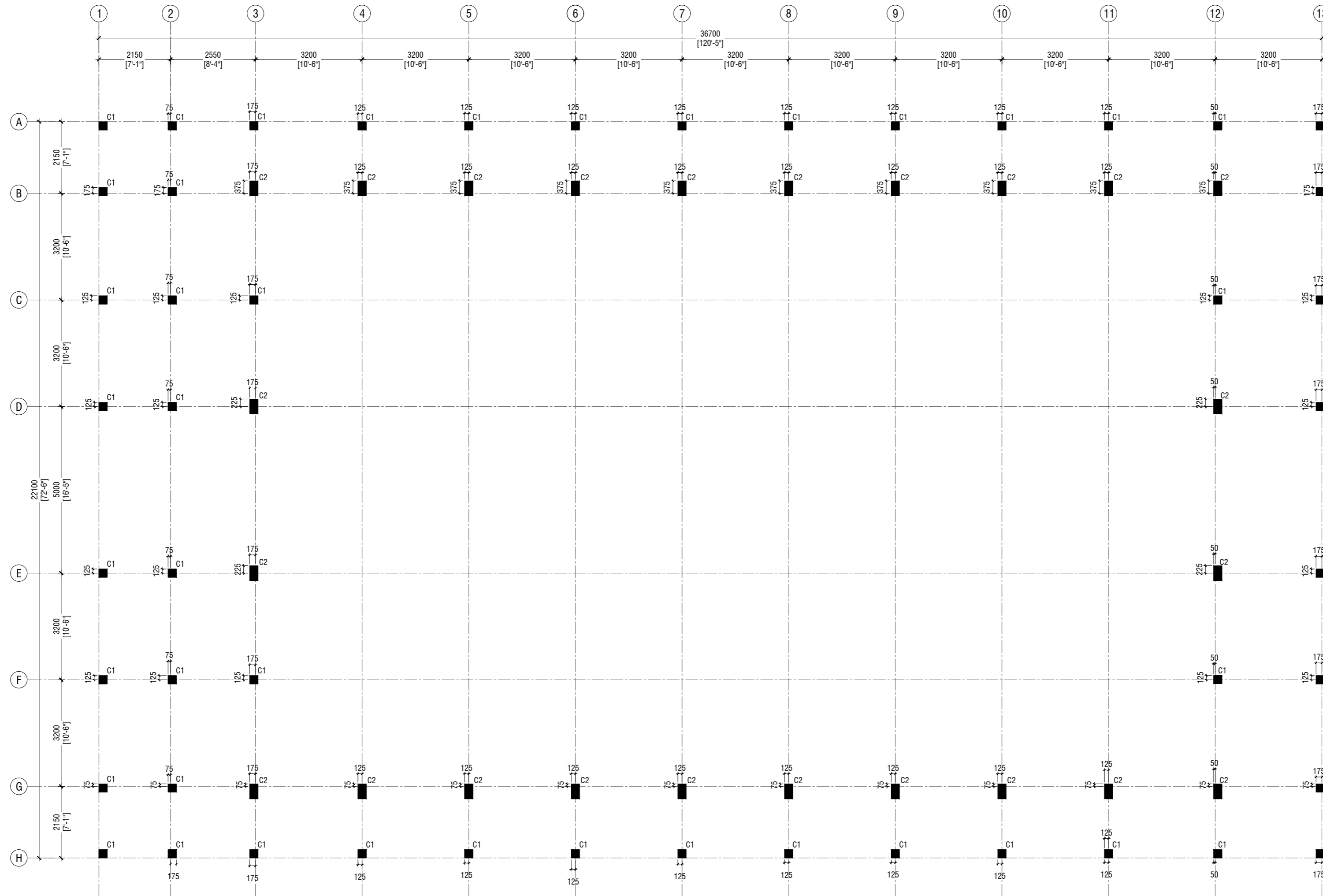
**NOTE:-**

1. FOR OPENINGS LESS THAN 200x200. SLAB REBARS TO BE ADJUSTED AROUND OPENING.
2. FOR OPENINGS GREATER THAN 250x250 TO BE APPROVED BY THE ENGINEER.
3. ALL SLAB OPENINGS LOCATION TO BE APPROVED BY THE ENGINEER.
4. EQUIVALENT OPENING AREA SHALL APPLY THE DETAILS SHOWN ABOVE.
5. EQUIVALENT OPENING AREA SHALL INCLUDE RECTANGLE, TRIANGLE AND ANY POLYGON SHAPE.
6. EXCEPT HACKING, NO SLAB CORING ARE ADVISABLE FOR POST-TENSIONED SLAB.

**TYPICAL TRIMMER BARS DETAILS FOR OPENING IN SLABS**

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**GROUND FLOOR COLUMN LAYOUT PLAN**

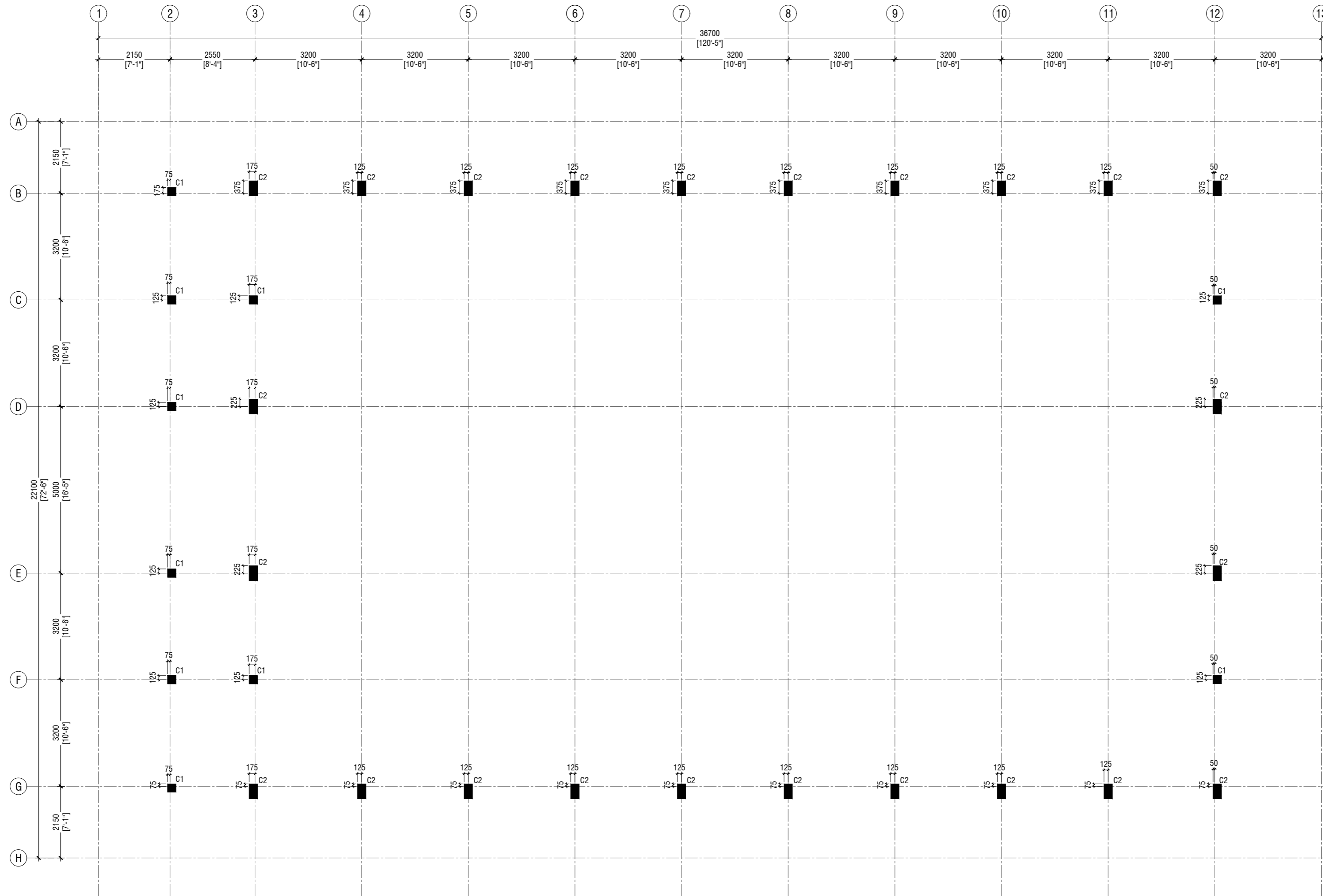
SCALE 1:100  
0 0.5 1 2 3 4 5

**NOTE:**

**COLUMN SIZES**  
C1 : 250 x 250 mm  
C2 : 250 x 450 mm  
COVER : 40mm

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**FIRST FLOOR COLUMN LAYOUT PLAN**

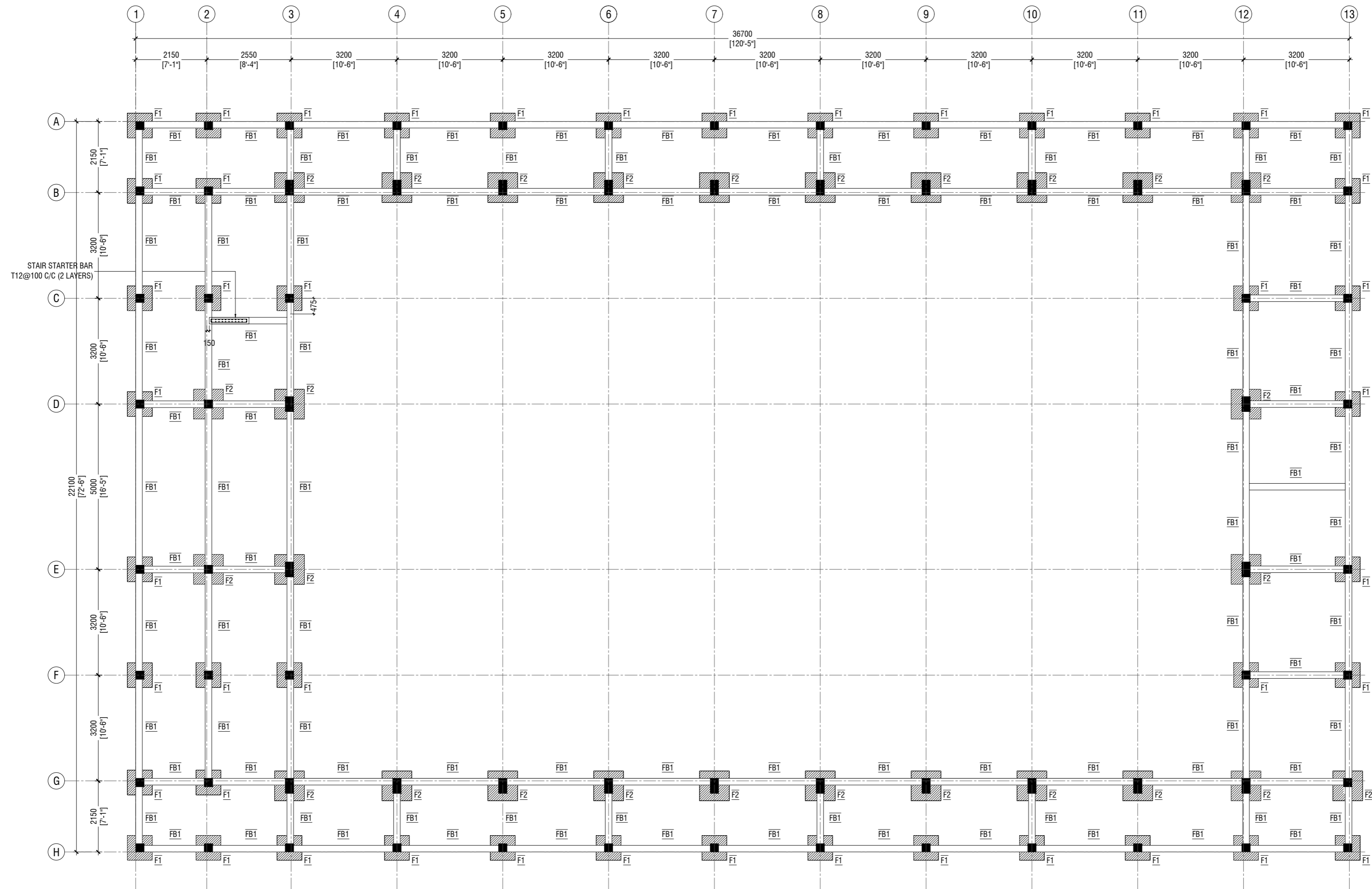
SCALE 1:100  
0 0.5 1 2 3 4 5

**NOTE:**  
**COLUMN SIZES**  
 C1 : 250 x 250 mm  
 C2 : 250 x 450 mm  
 COVER : 40mm

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**FOUNDATION PLAN**

SCALE 1:100



**NOTE:**

**COLUMN SIZES**  
 C1 : 250 x 250 mm  
 C2 : 250 x 450 mm  
 COVER : 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 B/W

MIX RATIO / GRADE = 1:2:3 ( CEMENT : SAND : AGGREGATE ) C25

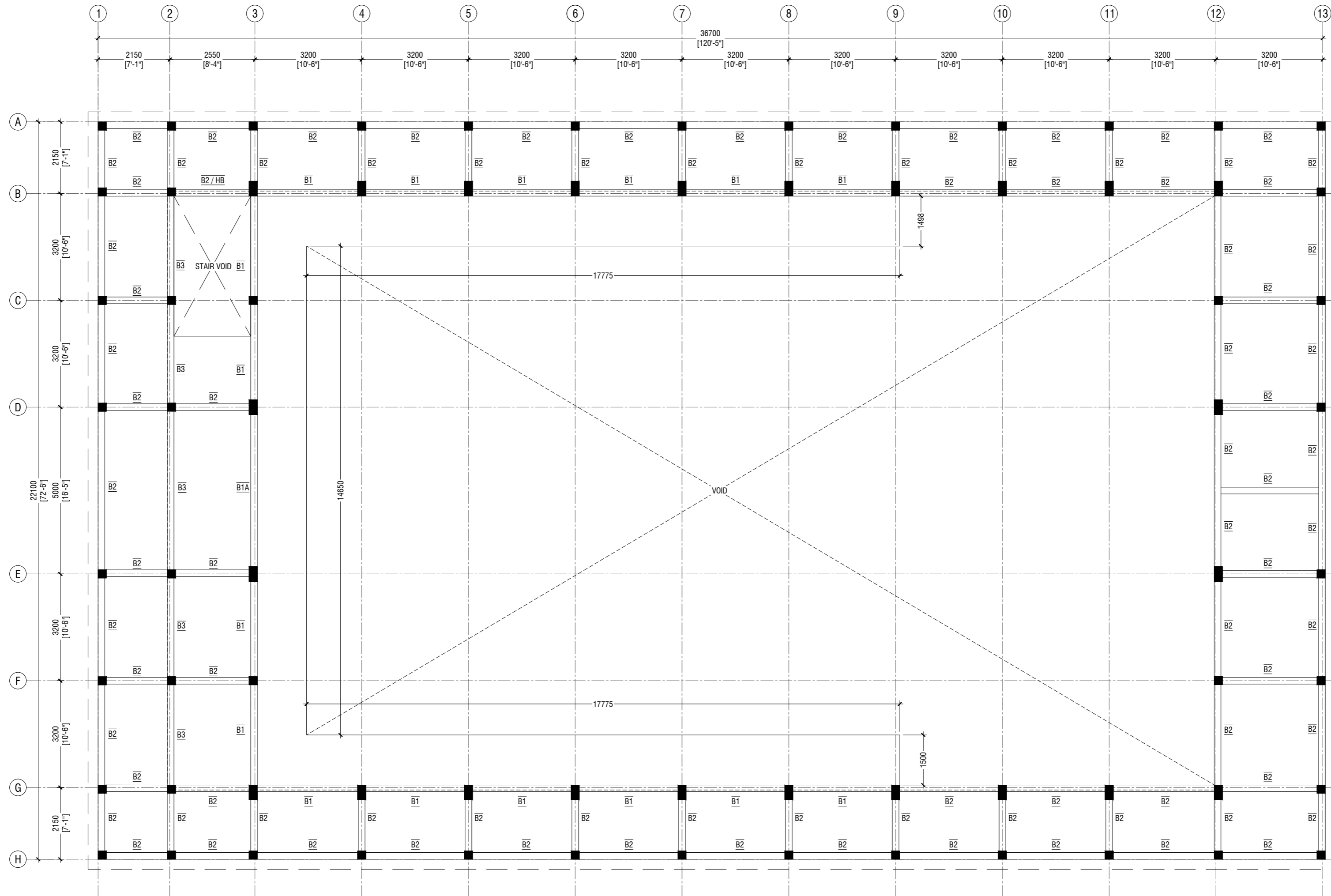
-150mm THK. SOLID MASONRY BLOCK WALL

RAMP SLAB : 100mm THK RC SLAB ON FILL  
 REINFORCED WITH R6@200 C/C B/W

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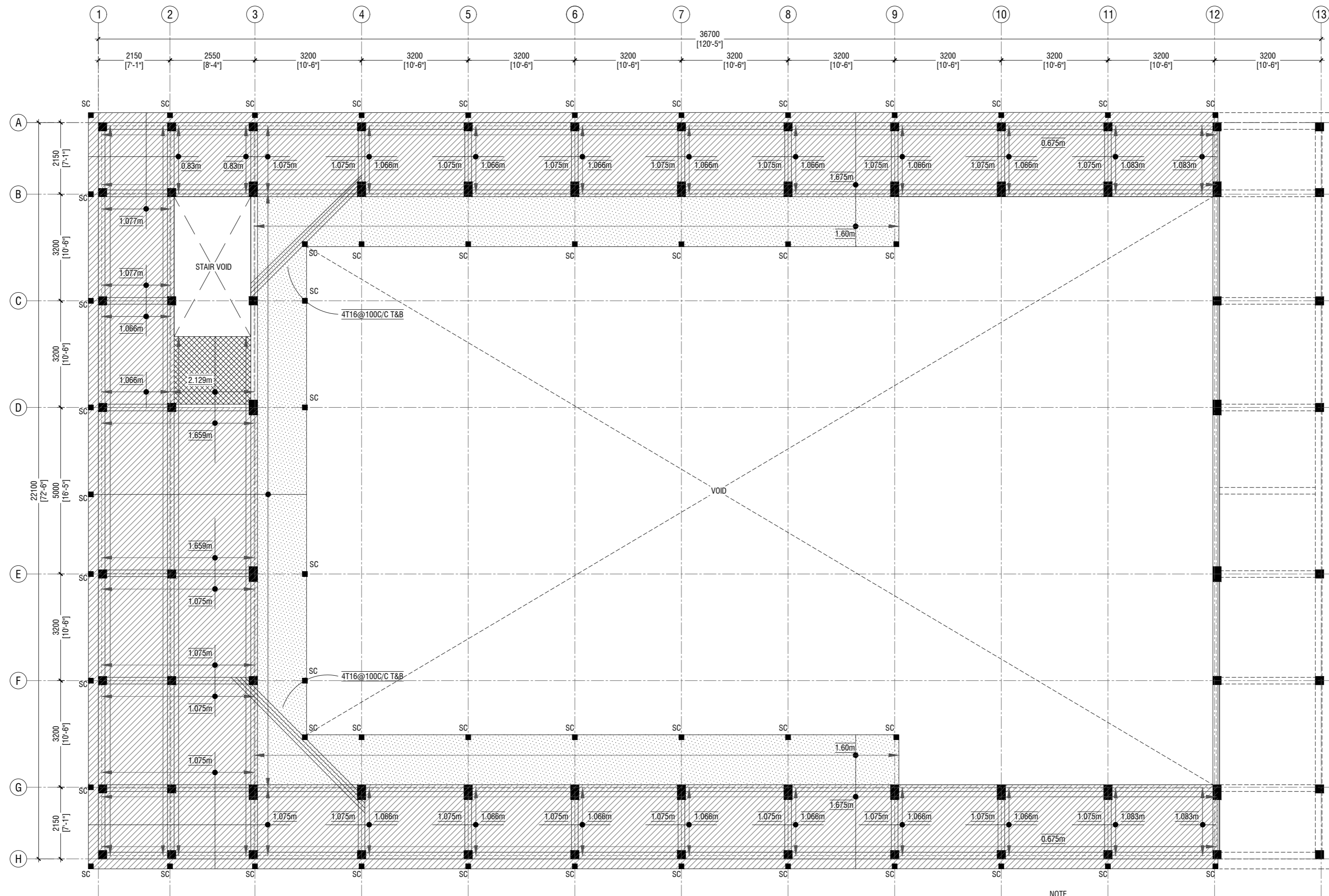


**FIRST FLOOR BEAM PLAN**

SCALE 1:100

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**FIRST FLOOR SLAB REINFORCEMENT PLAN**

SCALE 1:100  
0 0.5 1 2 3 4 5

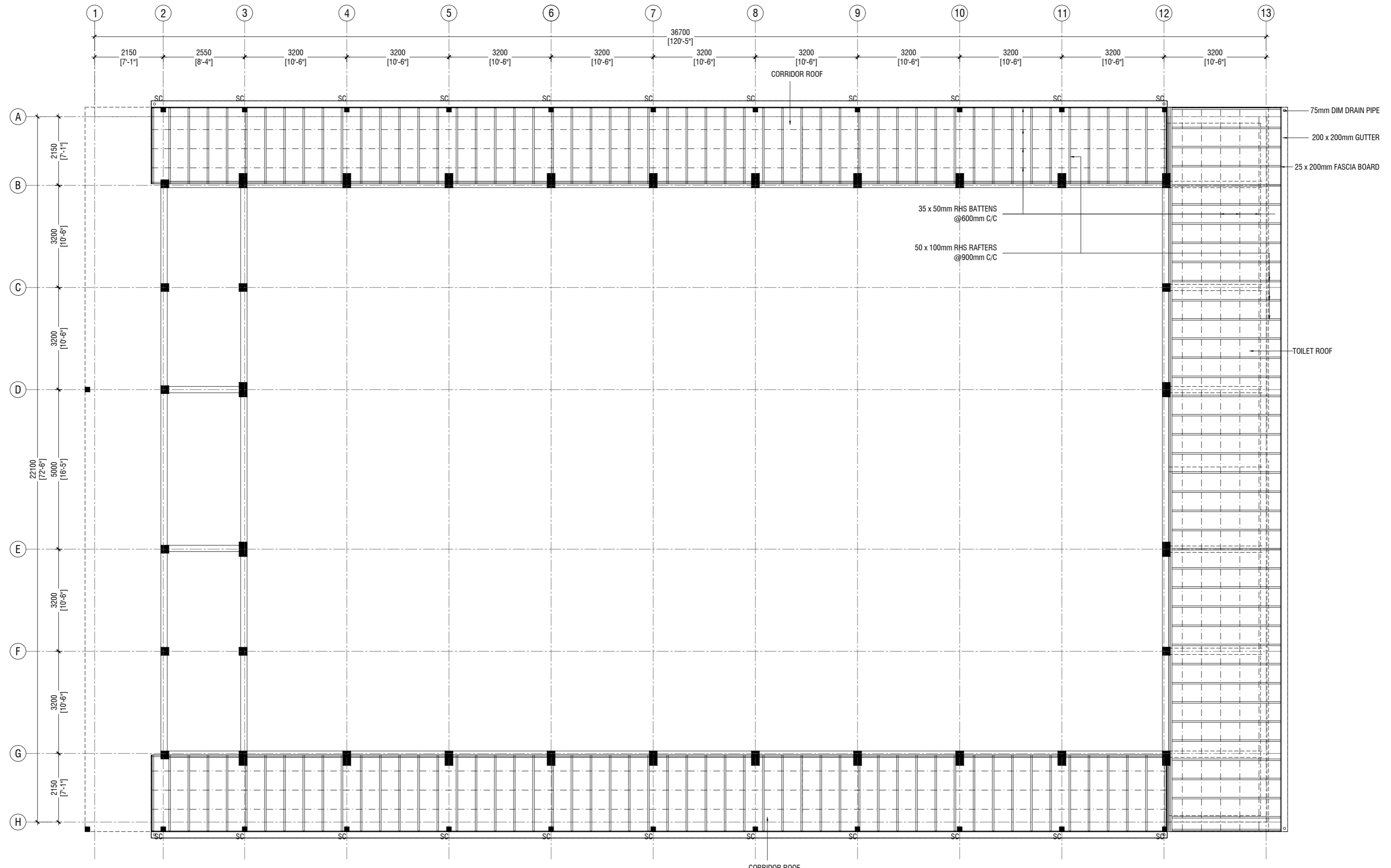
- NOTE
- ▨ SLAB THICKNESS CAT WALK = 170MM
  - ▨ STAIRCASE LANDING AREA = 150MM
  - ▨ ALL OTHER AREAS = 130MM

SC - 150 x 150 mm STIFFNER COLUMN (REFER TO DETAILS IN STRUCTURAL PAGE)  
 SC - 150 x 150 mm STIFFNER COLUMN TO BE EXTEND UP TO LOWER ROOF LEVEL  
 BOTTOM REINFORCEMENT - T10@150 C/C BW (NOT SHOWN, UNLESS STATED)  
 TOP MAIN REBAR - T10@100mm C/C (AS SHOWN)  
 TOP DISTRIBUTION REBAR - T10@200mm (NOT SHOWN)

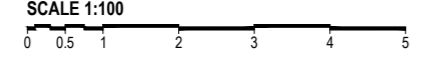
REINFORCEMENT DISCONTINUOUS AT VOIDS

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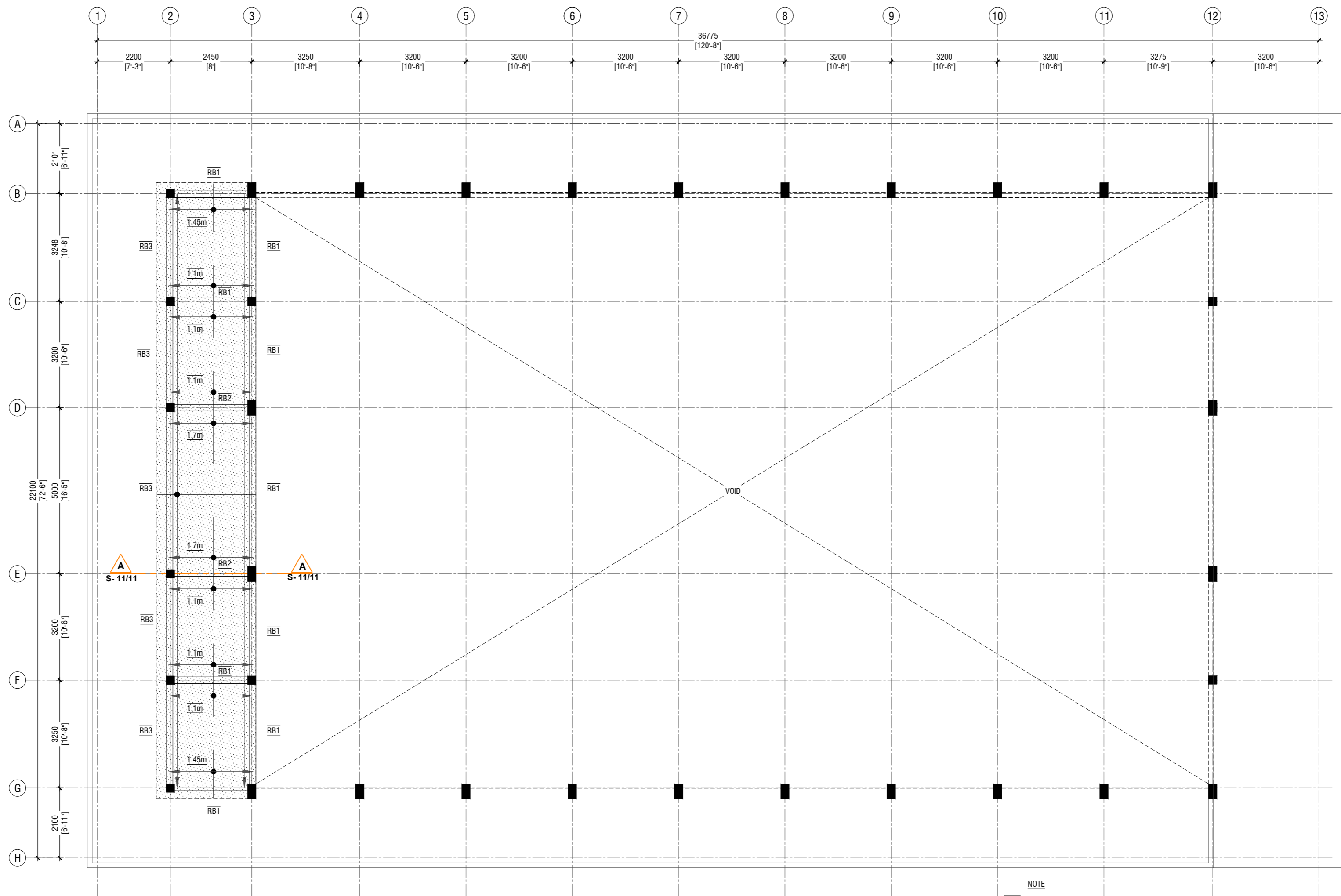
**LOWER ROOF FRAMING PLAN**  
 SCALE 1:100



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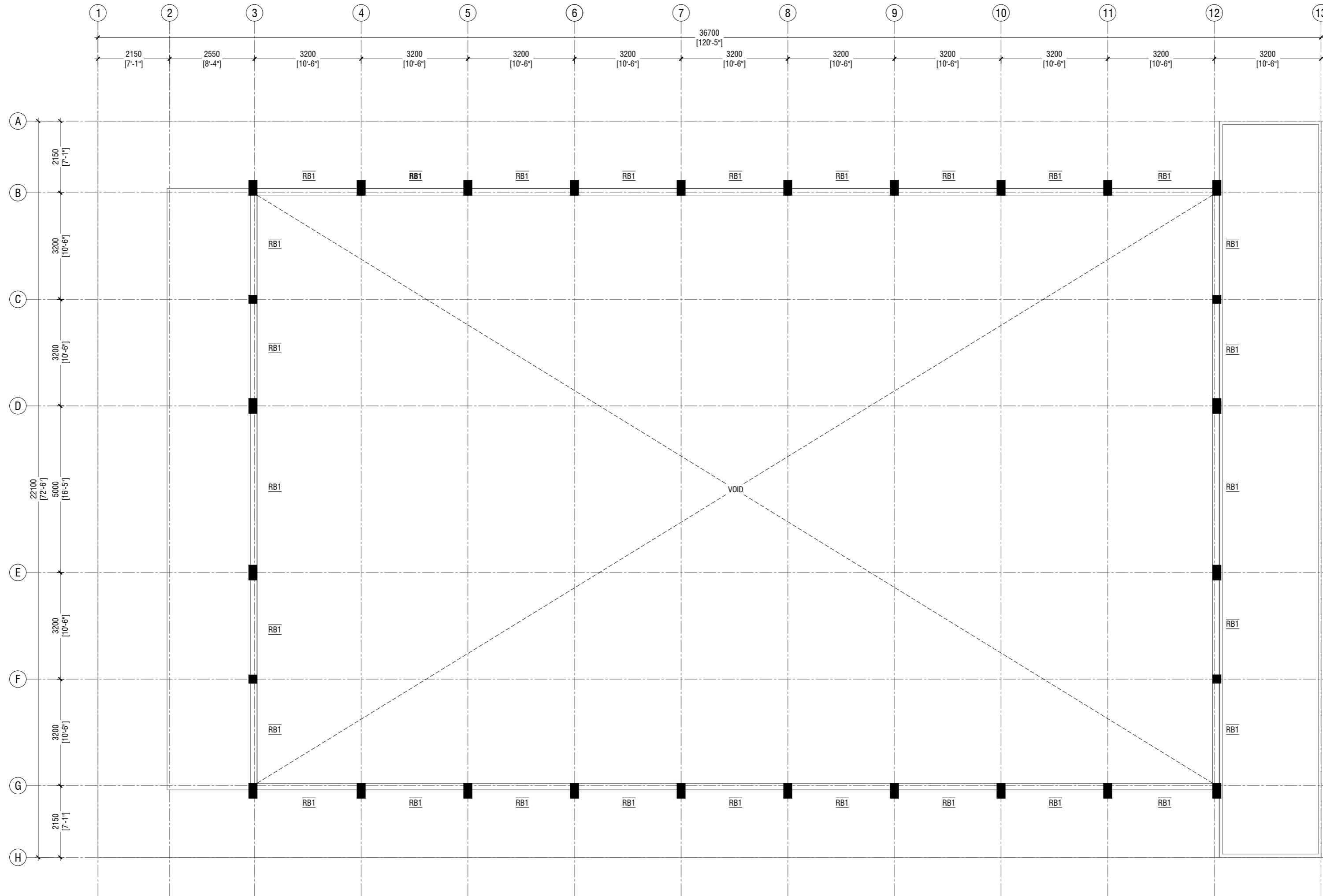
**ROOF BEAM LEVEL - 1 AND SLAB REINFORCEMENT PLAN (+7300)**

SCALE 1:100  
 0 0.5 1 2 3 4 5

**NOTE**  
 SLAB THICKNESS - 130 mm  
 BOTTOM REINFORCEMENT - T10@200 C/C BW (NOT SHOWN, UNLESS STATED)  
 TOP REINFORCEMENT - T10@200 C/C BW (AS SHOWN, UNLESS STATED)  
 REINFORCEMENT DISCONTINUOUS AT VOIDS

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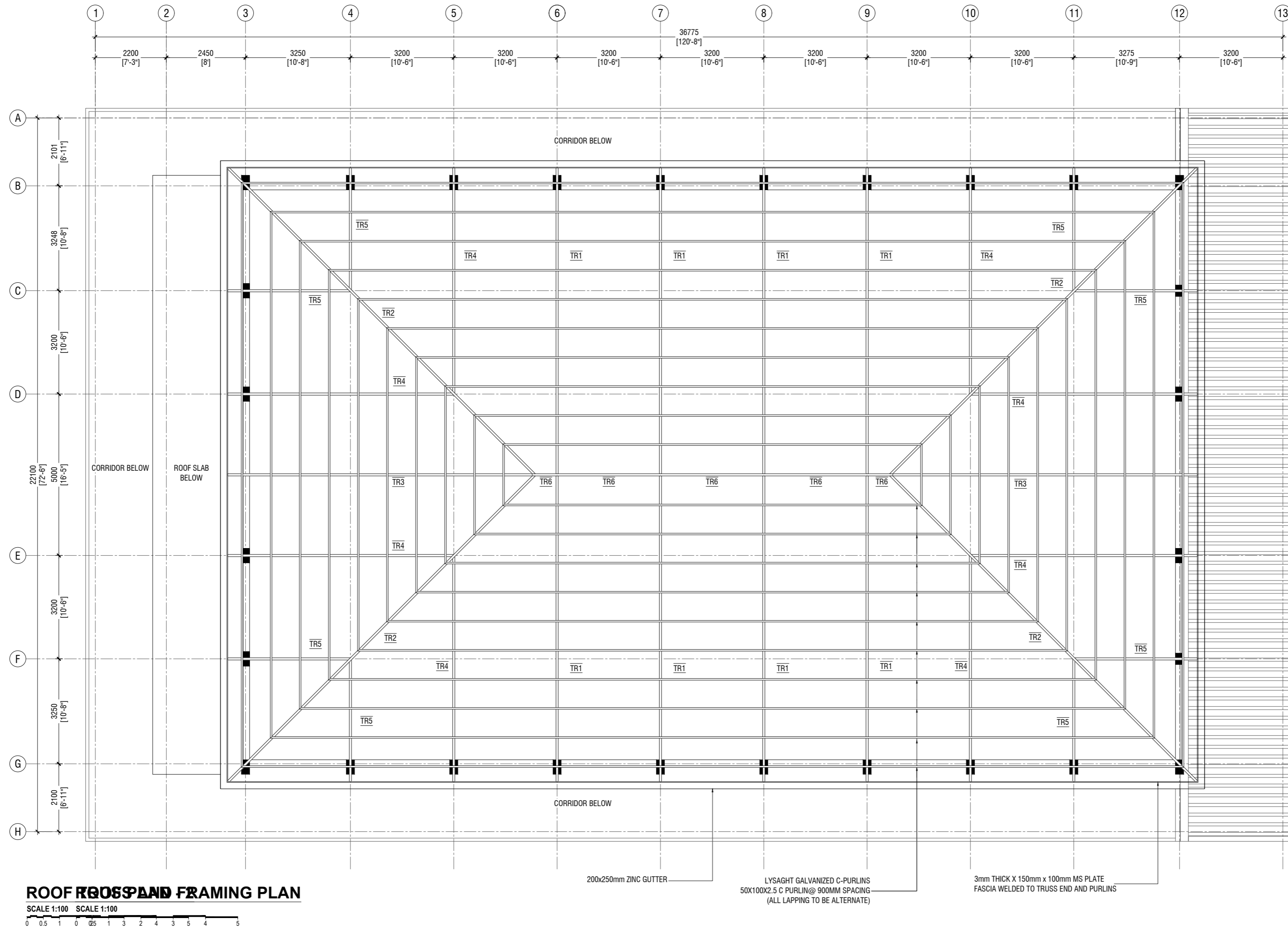
**ROOF BEAM LEVEL - 2 PLAN (+8200)**

SCALE 1:100



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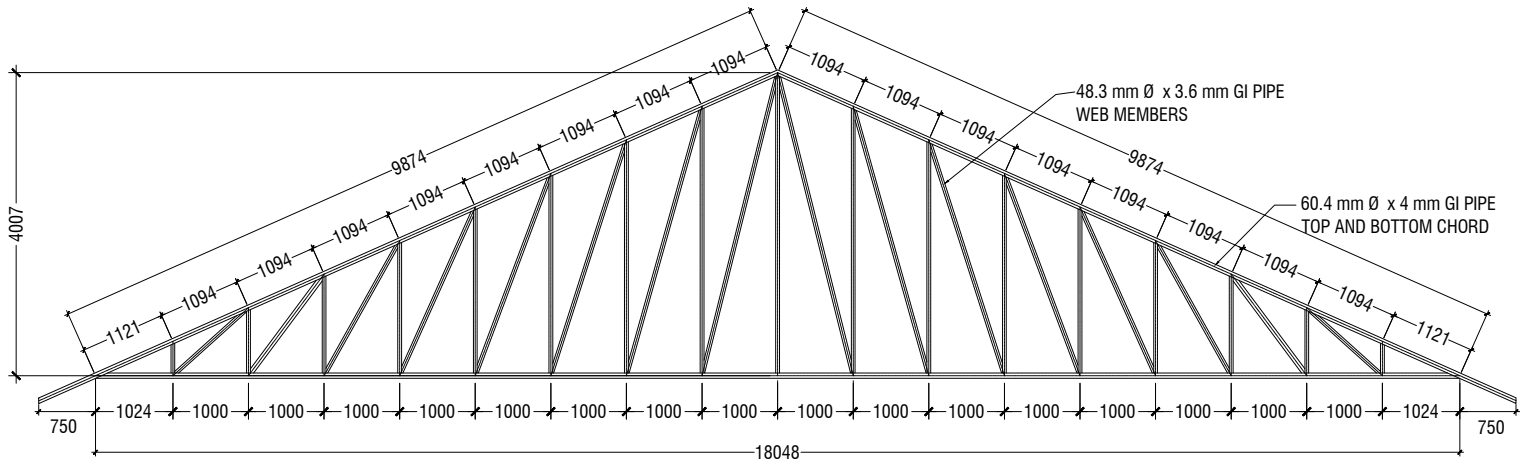
Rev no	Date



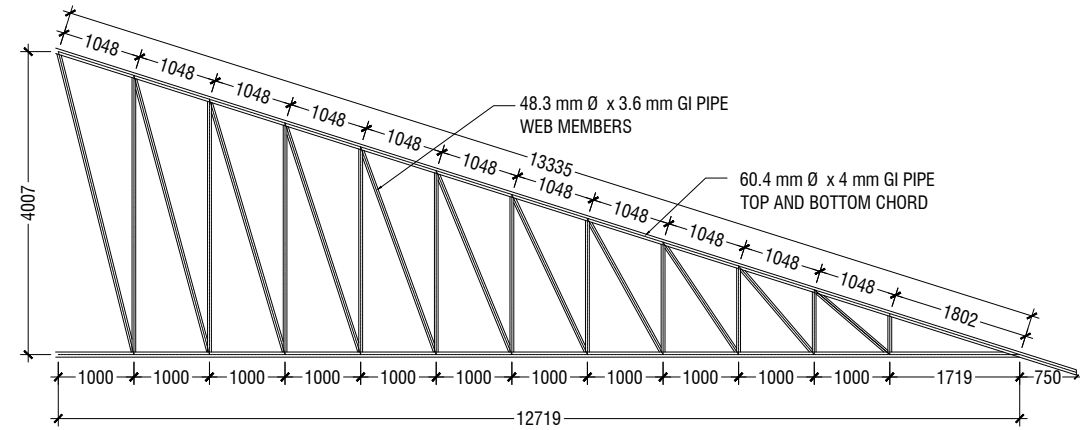
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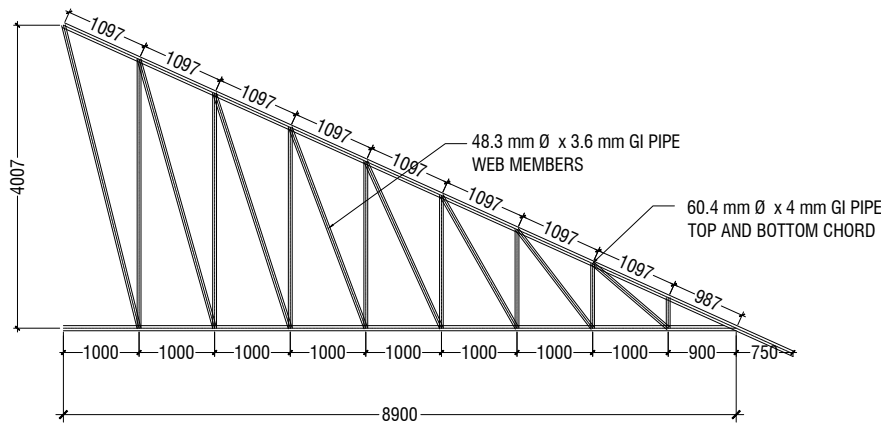
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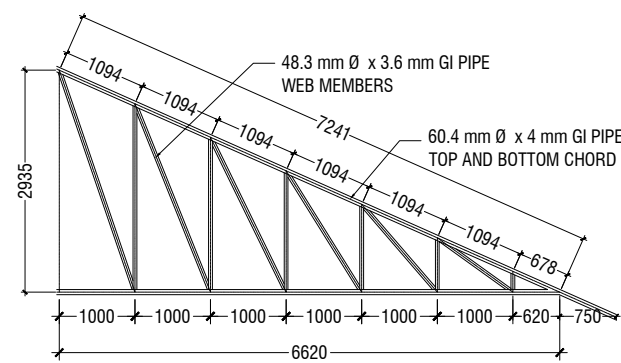
**TRUSS TYPE TR1**



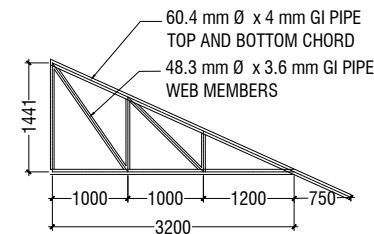
**TRUSS TYPE TR2**



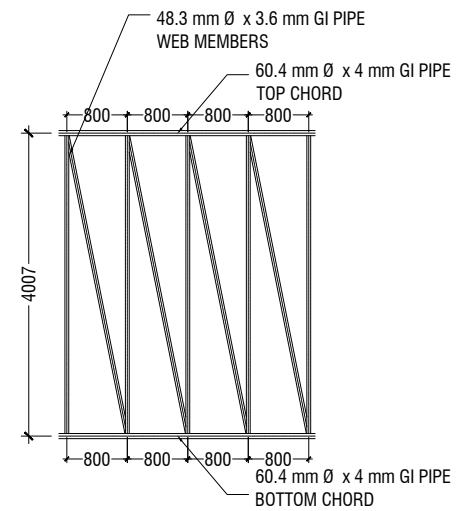
**TRUSS TYPE TR3**



**TRUSS TYPE TR4**



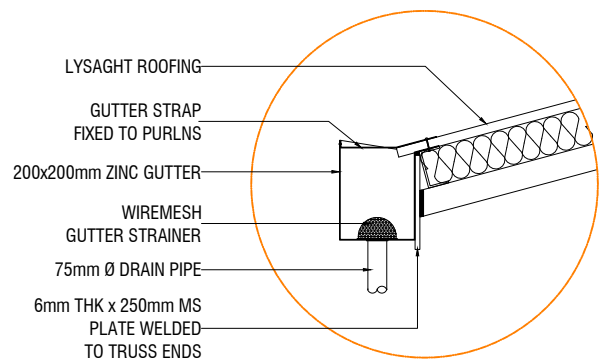
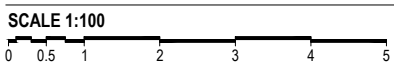
**TRUSS TYPE TR5**



**TRUSS TYPE TR6**

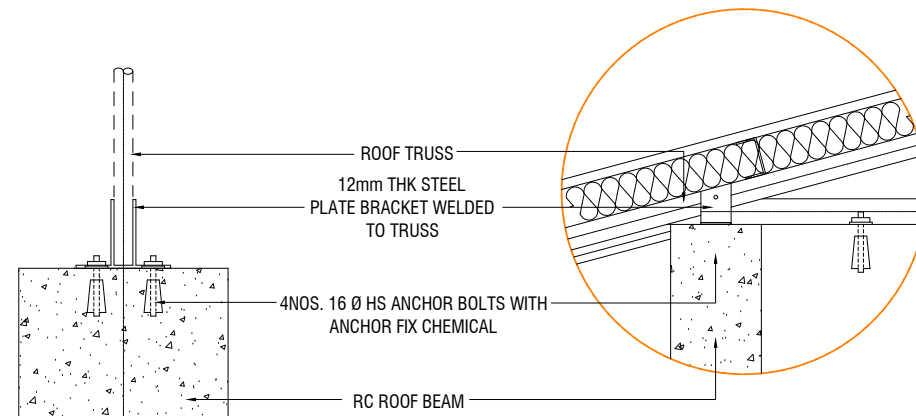
**NOTE**  
**CORROSION PROTECTION: GALVANIZED COATING THICKNESS SHALL NOT BE LESS THAN 80 MICRONS**  
**ALL FILLET WELDS TO BE 4mm THICK**  
**CONTRACTOR AND CONSULTANT TO CONFIRM ON SITE TRUSS SPAN AND DIMENSIONS BEFORE FABRICATION**

**ROOF TRUSS DETAILS**



**GUTTER/FASCIA DETAIL**

SCALE 1:20



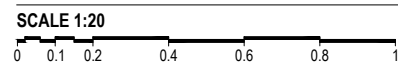
**ELEVATION**

SCALE 1:20

**SECTION**

SCALE 1:20

**TYPICAL TRUSS FIXING DETAILS**



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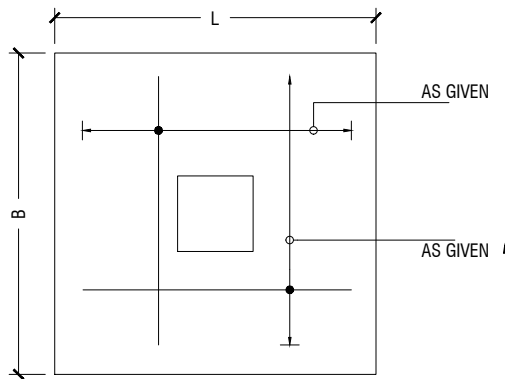
	DIMENSION	REINFORCEMENT(L x B x D)
F1	750 x 750 x 250	T10@150 C/C B/W (B)
F2	900 x 900 x 300	T10@100 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

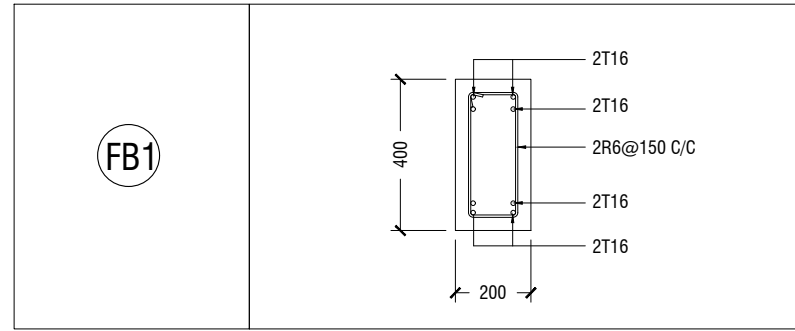
NOTE:-  
COVER TO FOUNDATION = 50mm  
COVER TO COLUMNS = 35-40mm  
COVER TO BEAMS = 35mm  
LAPS =  $\varnothing$  OF BAR x 45  
BEAMS @END SUPPORT =  $\varnothing$  OF BAR x 12

MIX RATIO / GRADE = 1:2:3 ( CEMENT : SAND : AGGREGATE ) C25

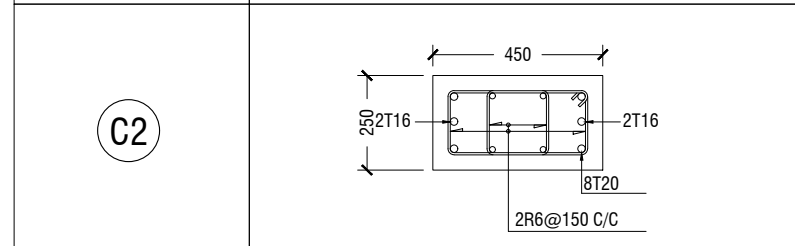
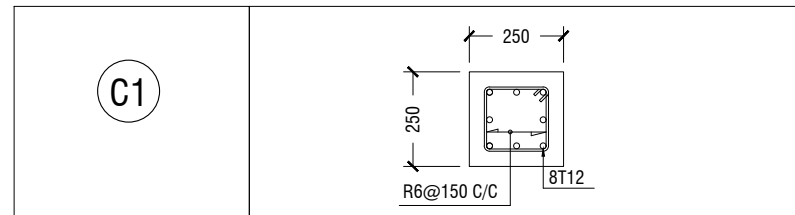
### FOUNDATION PADS



### PLAN

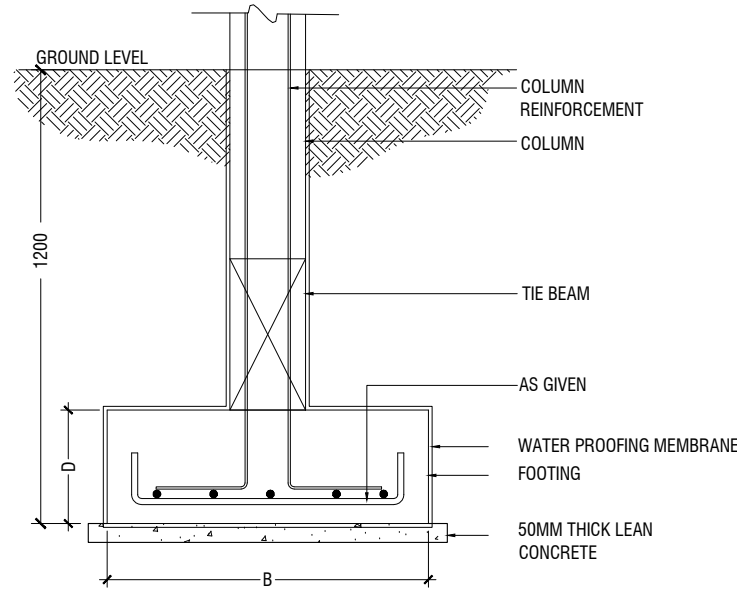
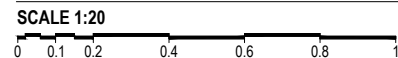


### FOUNDATION DETAILS



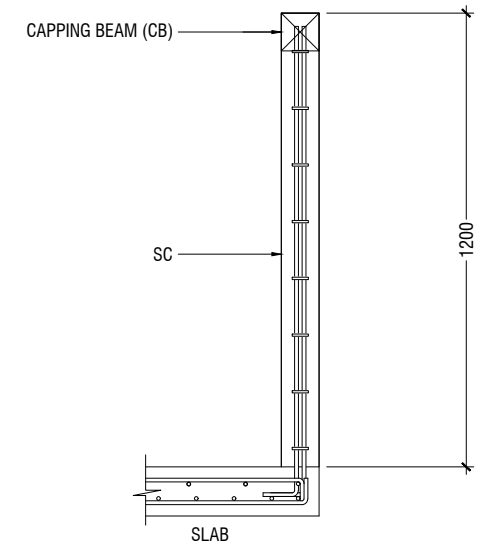
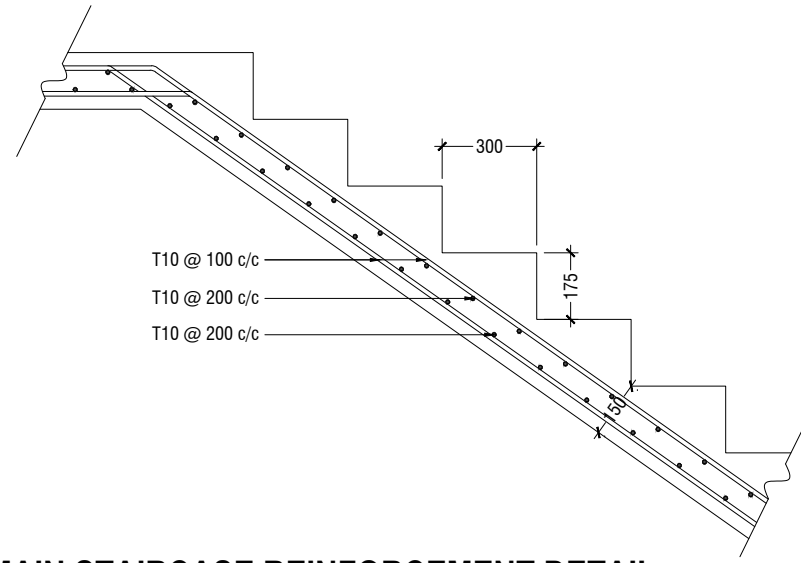
### COLUMN DETAIL

### STRUCTURAL DETAILS



### SECTION FOOTING DETAILS

### MAIN STAIRCASE REINFORCEMENT DETAIL



### STIFFNER COLUMN DETAIL

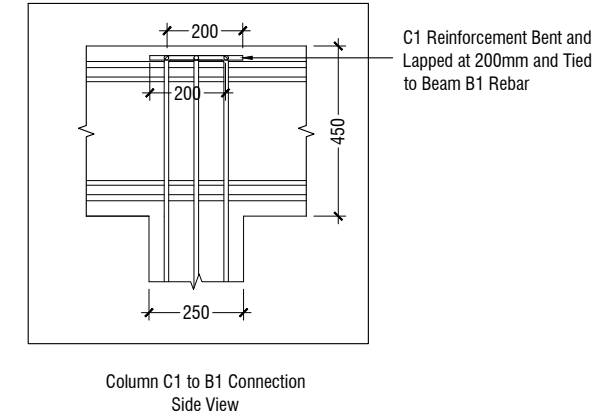
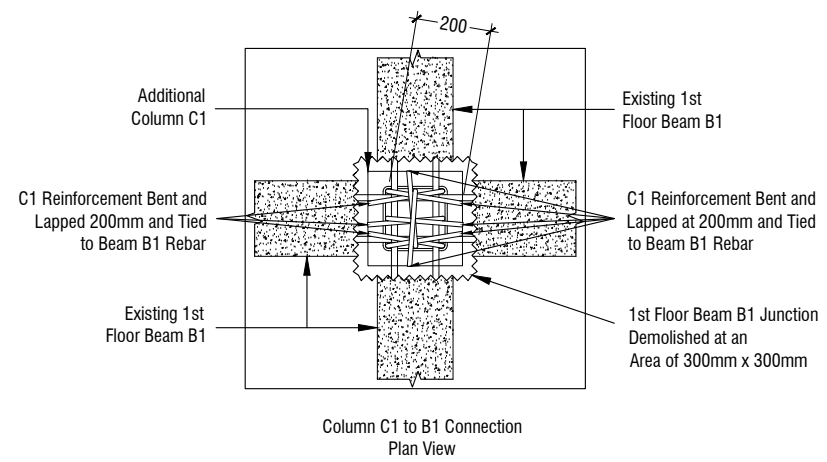
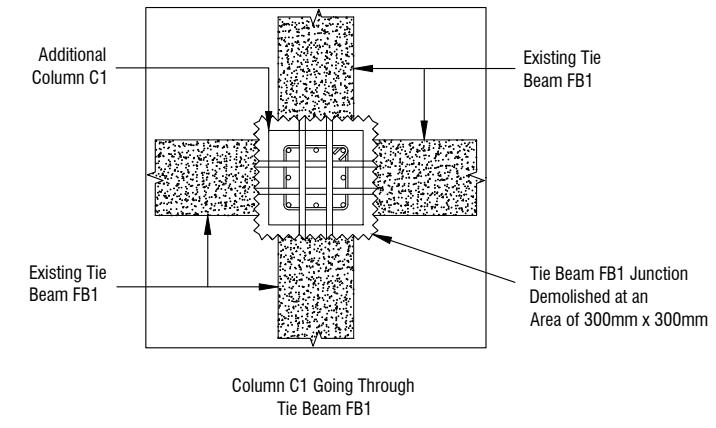
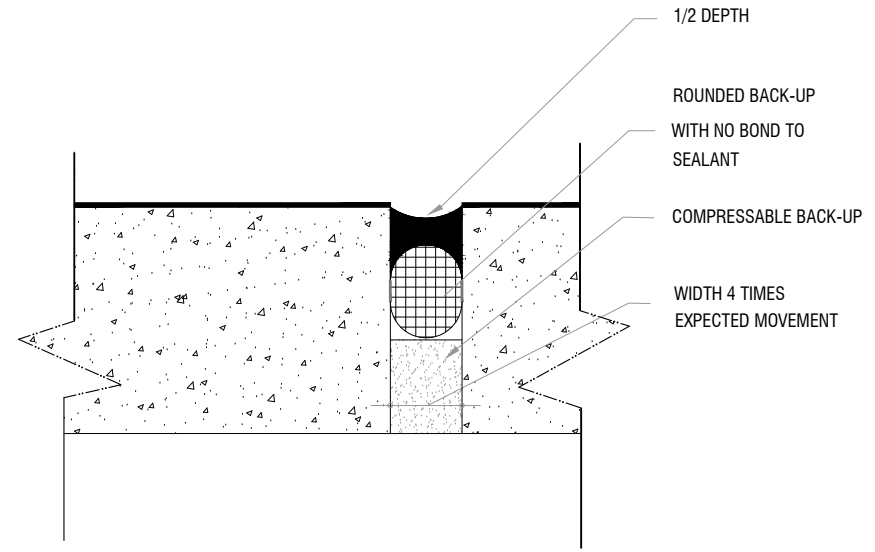
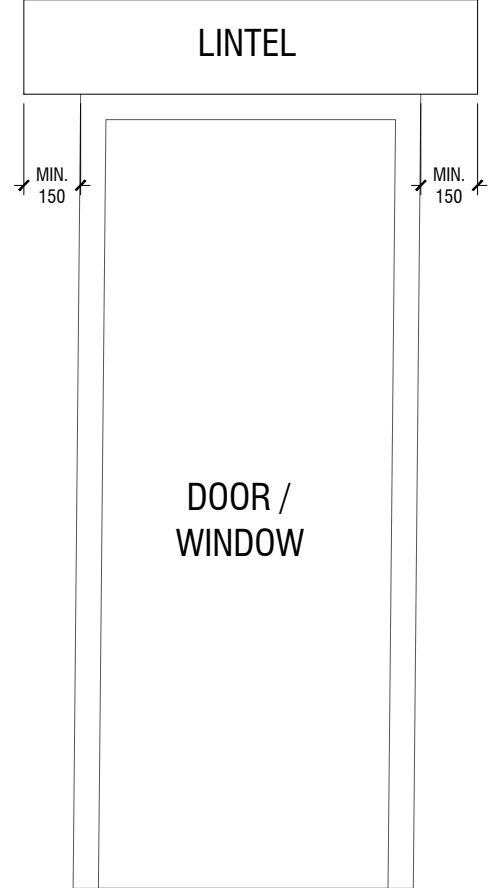
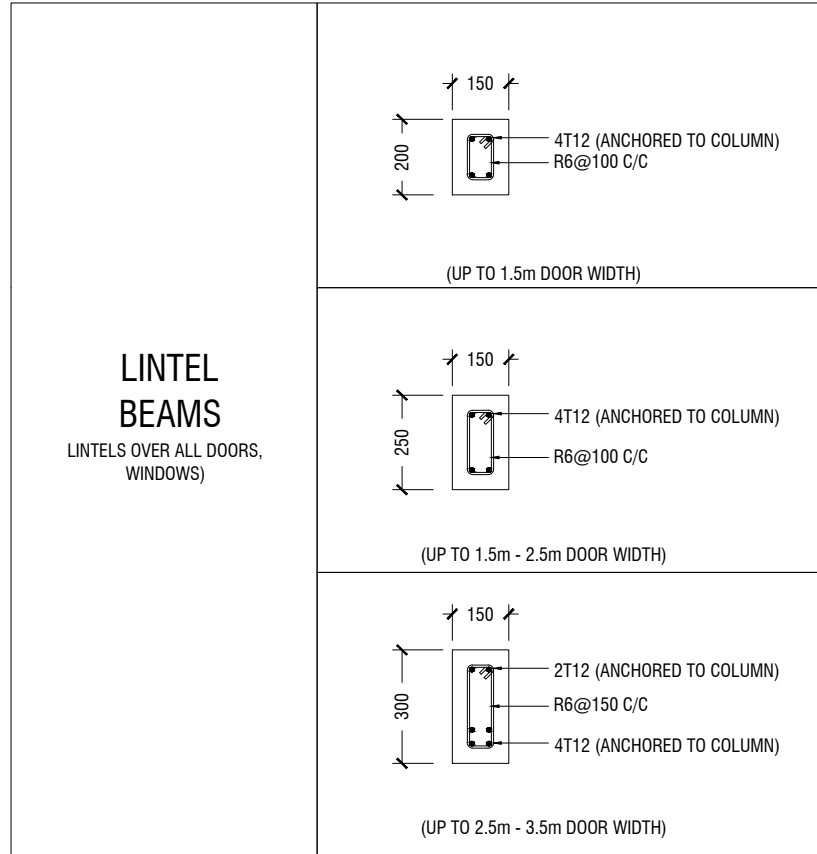
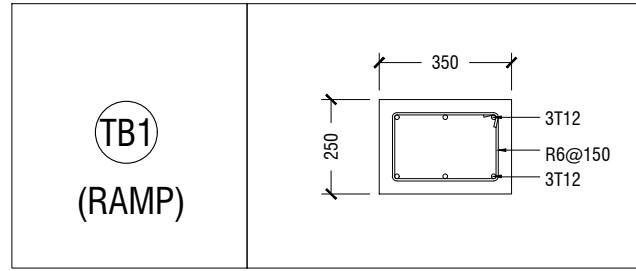
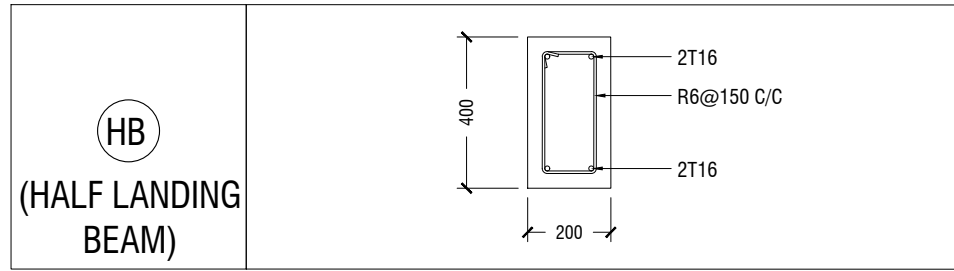
B1		RB1	
B1A		RB2	
B2		RB3	
B3		CB / SILL BEAM	

### BEAM DETAIL

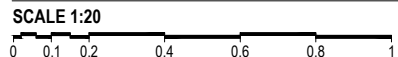
R. Ungoofaar School Hall  
Client: Ministry of Education

Project Number	Date
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Rev no	Date
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**STRUCTURAL DETAILS**



**CONNECTION DETAIL FOR 2 ADDITIONAL COLUMNS**

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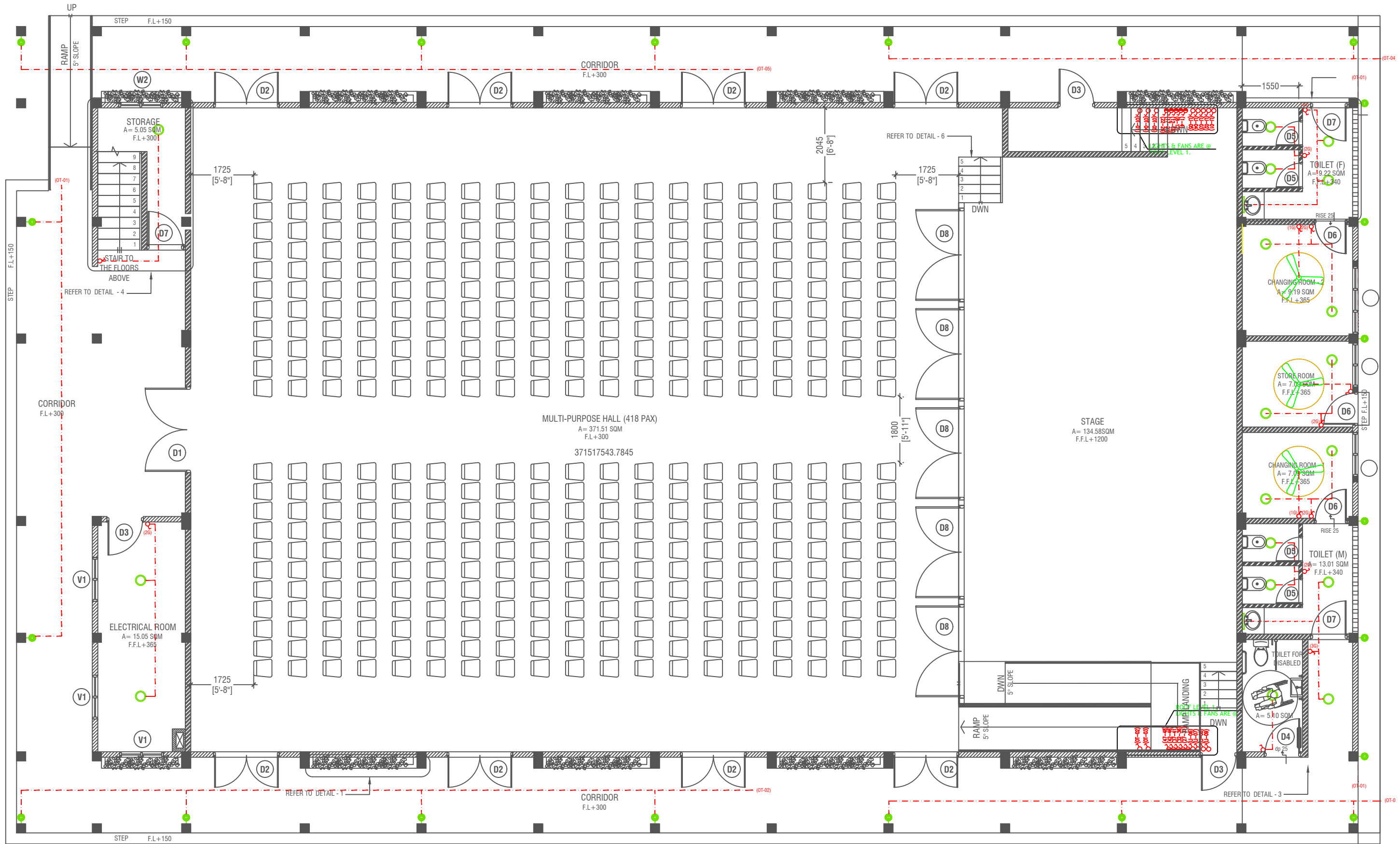
Project Number	.....	Date	.....
Rev no	.....	Architect	.....
	.....	Engineer	.....
	.....	Drawn by	.....
	.....	Services	.....
	.....	Interior	.....

Proposed Multipurpose Hall Building at  
R. Ungoofaaruu School

*SERVICES DRAWINGS*  
Client: Ministry of Education

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EL - 02 / 02	1ST FLOOR LIGHTING LAYOUT	---	---	---
EP - 01 / 02	GROUND FLOOR POWER LAYOUT	---	---	---
EP - 02 / 02	1ST FLOOR POWER LAYOUT	---	---	---
DR - 01 / 04	GROUND FLOOR PLUMBING & DRAINAGE LAYOUT	---	---	---
DR - 02 / 04	1ST FLOOR DRAINAGE LAYOUT	---	---	---
DR - 03 / 04	ROOF PLAN -1 DRAINAGE LAYOUT	---	---	---
DR - 04 / 04	ROOF PLAN -2 DRAINAGE LAYOUT	---	---	---
FDP - 01 / 02	GROUND FLOOR FDP LAYOUT	---	---	---
FDP - 02 / 02	1ST FLOOR FDP LAYOUT	---	---	---
DETAIL - 01 / 01	SEPTIC TANK DETAIL	---	---	---



## GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100



### LEGEND

- 4 x 55W PLL Lamps  
(Wire guard, Polycarbonate diffuser, Emergency and dimming versions)
- LED CEILING DOWN LIGHT ( 18W)
- CEILING FAN (52" - 54")
- 40W (IP 65) OUT DOOR WALL LIGHT
- MIRROR LIGHT (7W LED LIGHT)

- LIGHT SWITCH
- CEILING FAN SWITCH
- CIRCUIT LINE
- SWITCHING LINE

### NOTE:

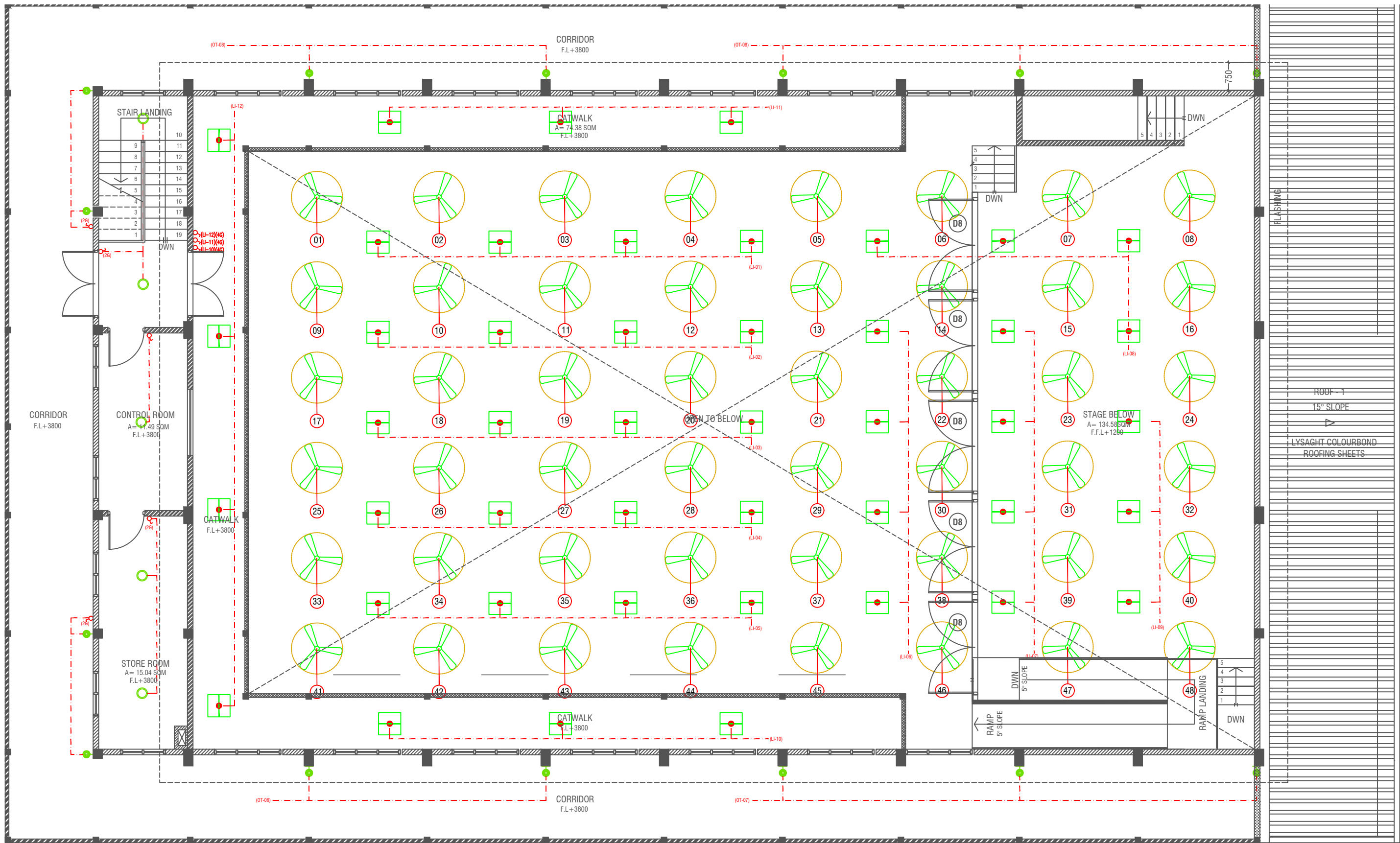
- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

### NOTE:

- THE DOWNROD OF THE FANS IN THE HALL SHOULD BE NOT LESS THAN 60"

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# FIRST FLOOR LIGHTING LAYOUT

SCALE 1:100



## LEGEND

600mm x 600mm LED CEILING MOUNT LIGHT (30W)  
(Wire guard, Polycarbonate diffuser, Emergency and dimming versions)

LED CEILING DOWN LIGHT ( 18W)

CEILING FAN (52" - 54")

40W (IP 65) OUT DOOR WALL LIGHT

MIRROR LIGHT (7W LED LIGHT)

LIGHT SWITCH

CEILING FAN SWITCH

CIRCUIT LINE

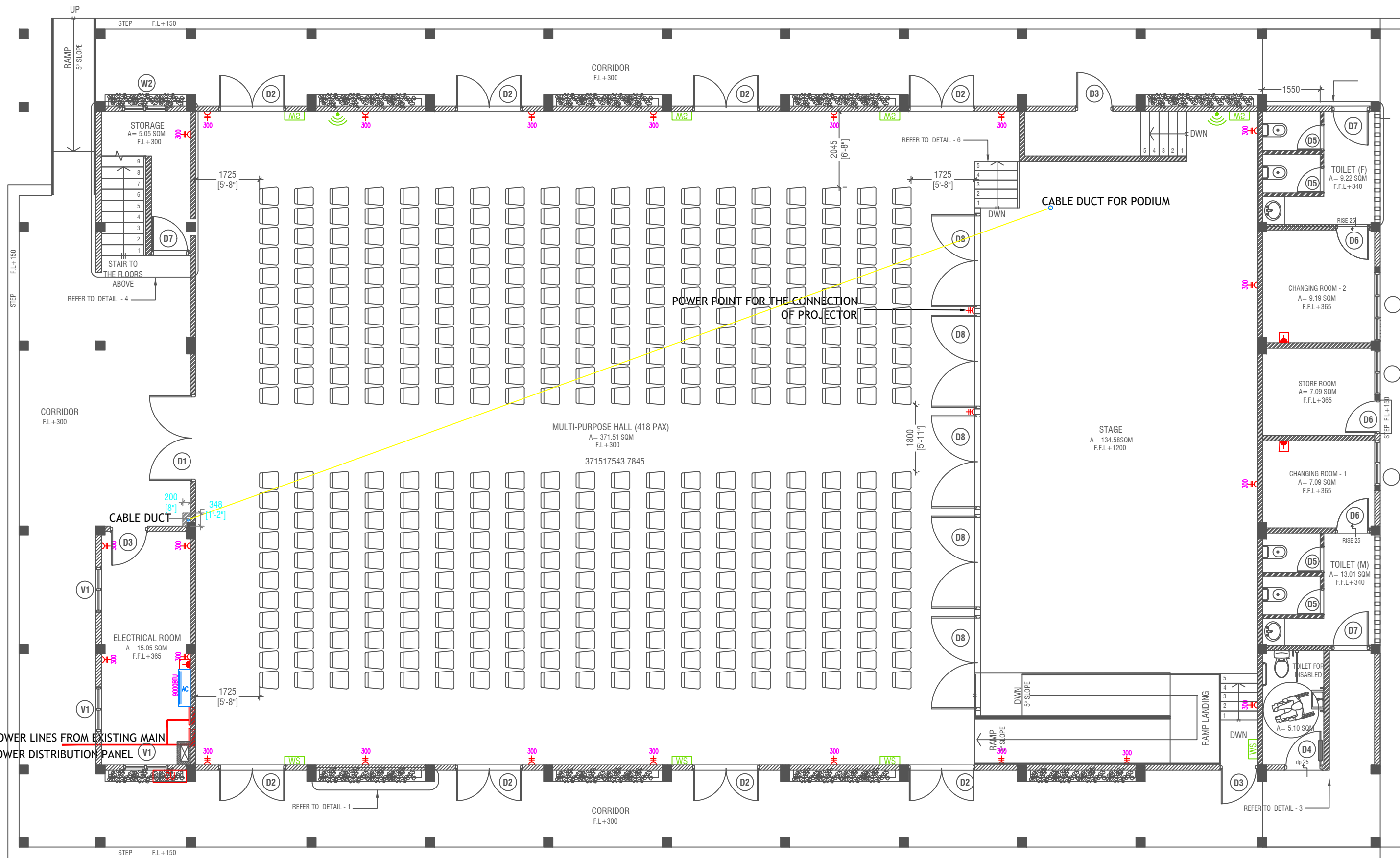
SWITCHING LINE

## NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

## NOTE:

-THE DOWNROD OF THE FANS IN THE HALL SHOULD BE NOT LESS THAN 60"



## GROUND FLOOR POWER LAYOUT

SCALE 1:100



- ▲ PHONE EXTENSION
- ▲ COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- ▲ TELEPHONE OUTLET (RJ11, CONNECTOR)
- ▲ 13A POWER POINT
- ▲ 13A TWIN SOCKET OUTLET
- ▲ 15A SWITCHED/ SPUR UNIT @ H.L.
- DISTRIBUTION BOX
- WS WALL SPEAKERS AT CEILING LEVEL
- Ⓜ DATA POINT
- AC Wall Mount Air Conditioner
- CU Outdoor Condensing Unit

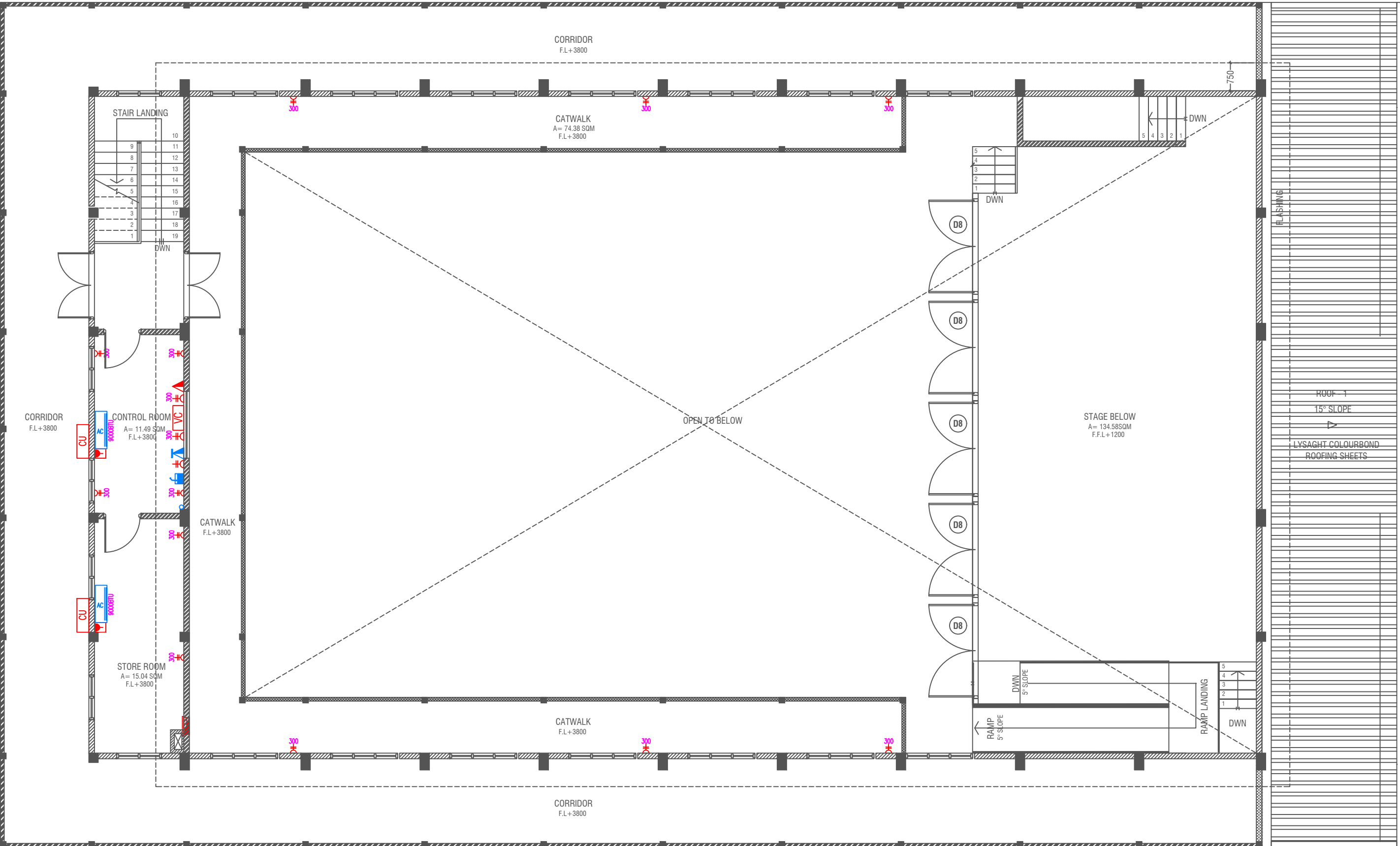
- NOTE:**
- ALL WIRING TO BE OF APPROVED STANDARDS
  - POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
  - SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
  - KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
  - AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL
  - ALL SPEAKERS SOCKET SHALL BE AT CONTROL ROOM

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

R. Ungoofaaru School Hall  
Client: Ministry of Education

Project Number: .....  
Date: February 2024  
Architect: .....  
Drawn by: .....  
Services: .....  
Interior: .....



# FIRST FLOOR POWER LAYOUT

SCALE 1:100

- PUBLIC ADDRESS SYSTEM
- PHONE EXTENSION
- COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- 15A SWITCHED/ SPUR UNIT @ H.L.
- DISTRIBUTION BOX
- WALL SPEAKERS AT CEILING LEVEL
- VOLUME CONTROLLER

- NOTE:**
1. ALL WIRING TO BE OF APPROVED STANDARDS
  2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
  3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
  4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
  5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

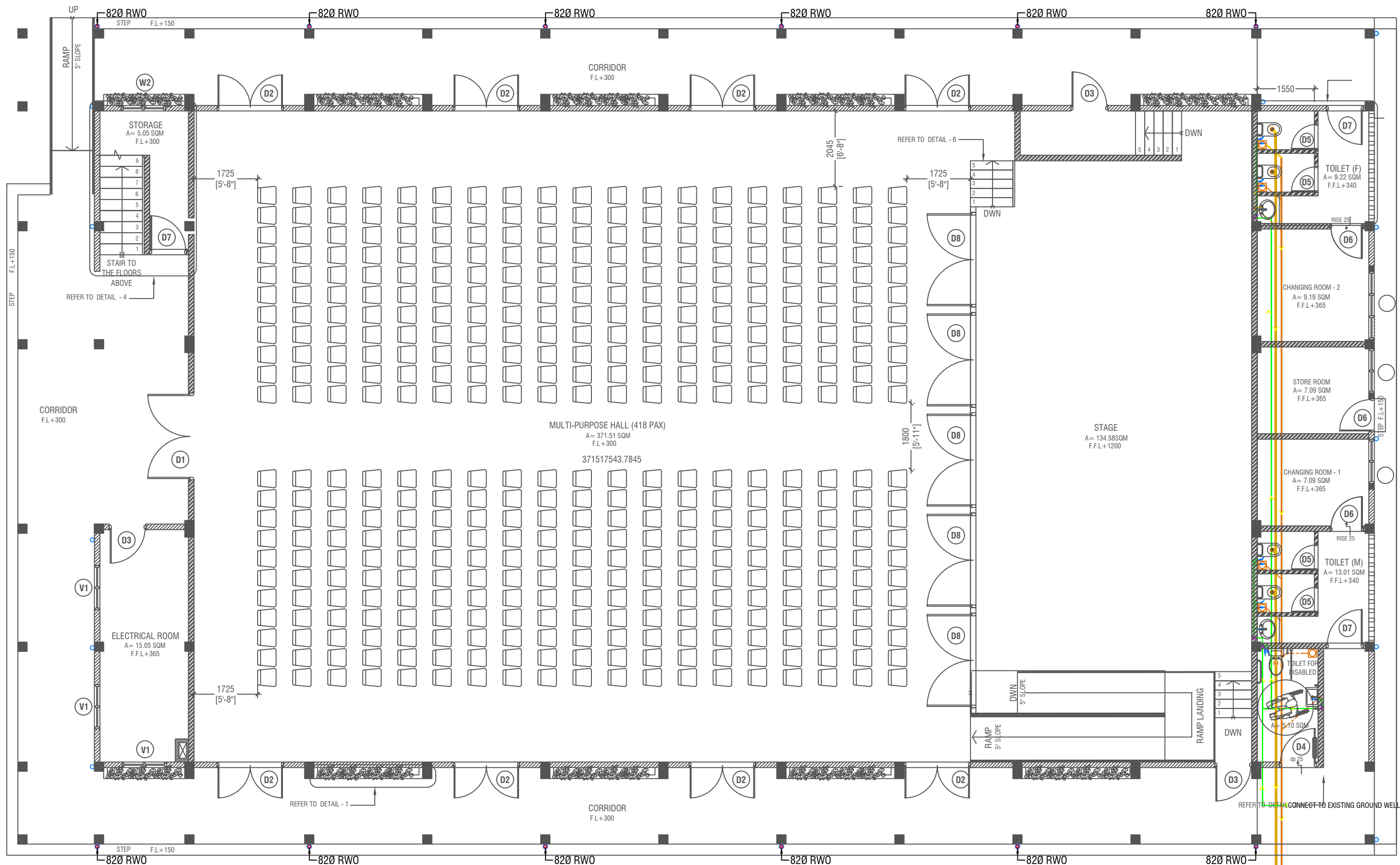
- Wall Mount Air Conditioner
- Outdoor Condenser Unit

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

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# GROUND FLOOR PLUMBING & DRAINAGE LAYOUT

SCALE 1:100



## LEGEND

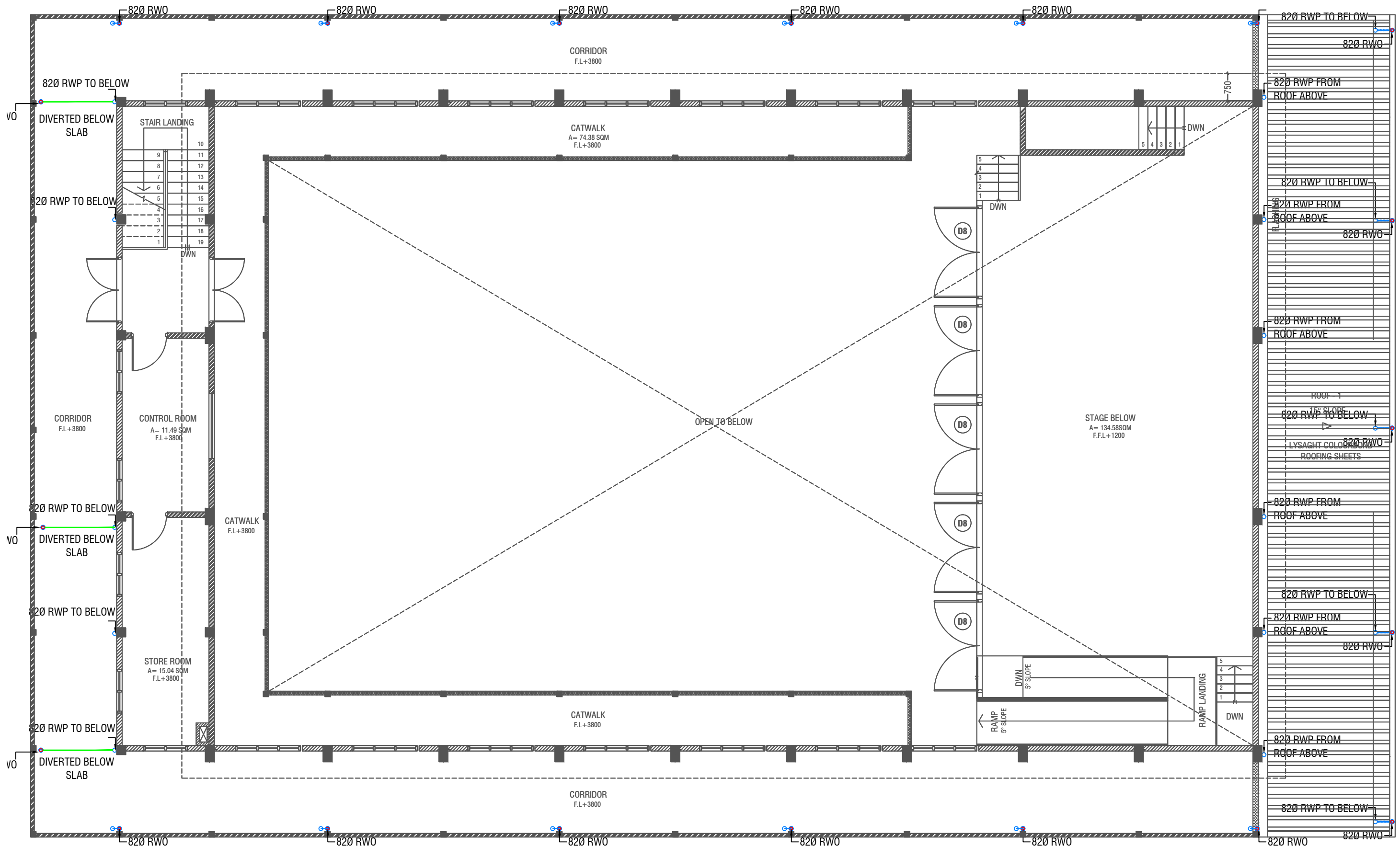
- |    |   |   |                                   |
|----|---|---|-----------------------------------|
| FC | 160 COLD WATER SUPPLY FAUCET / WALL TAP/SINK            | □ | FLOOR DRAIN                       |
| ✓  | 160 COLD WATER SUPPLY TO CISTERN                        | ○ | FLOOR GULLY                       |
| GV | GATE VALVE  | — | 1100 SOIL PIPE (CPVC PIPE)        |
| ●  | RISE IN WALL  | — | 820 WASTE PIPE (CPVC PIPE)        |
| ●  | DROP IN WALL  | — | 400 WASTE PIPE (CPVC PIPE)        |
| —  | 320 COLD WATER SUPPLY PIPES RUNNING UNDERGROUND         | — | 500 WASTE PIPE (CPVC PIPE)        |
| —  | 250 COLD WATER SUPPLY PIPES RUNNING IN WALLS            | — | 820 MANHOLE VENT PIPE (CPVC PIPE) |
| —  | 250 COLD WATER SUPPLY PIPES RUNNING UNDERGROUND         | — | —                                 |
| —  | 250 COLD WATER SUPPLY PIPES RUNNING ABOVE FALSE CEILING | — | —                                 |
|    |   | — | BOTTLE TRAP                       |
|    |   | — | GROUND WATER SUPPLY               |

**NOTE:**  
 - ALL RAINWATER PIPES TO BE AT GROUND LEVEL DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT  
 - ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.  
 - ALL COLD WATER PIPES SHOULD BE CPVC

**NOTE:**  
 - THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.  
 - BASED ON WELL LOCATION PUMP CAPACITY AND LOACTION TO BE DECIDED

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 Project Number: .....  
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 Architect: .....  
 Drawn by: .....  
 Services: .....  
 Interior: .....





# FIRST FLOOR DRAINAGE LAYOUT

SCALE 1:100

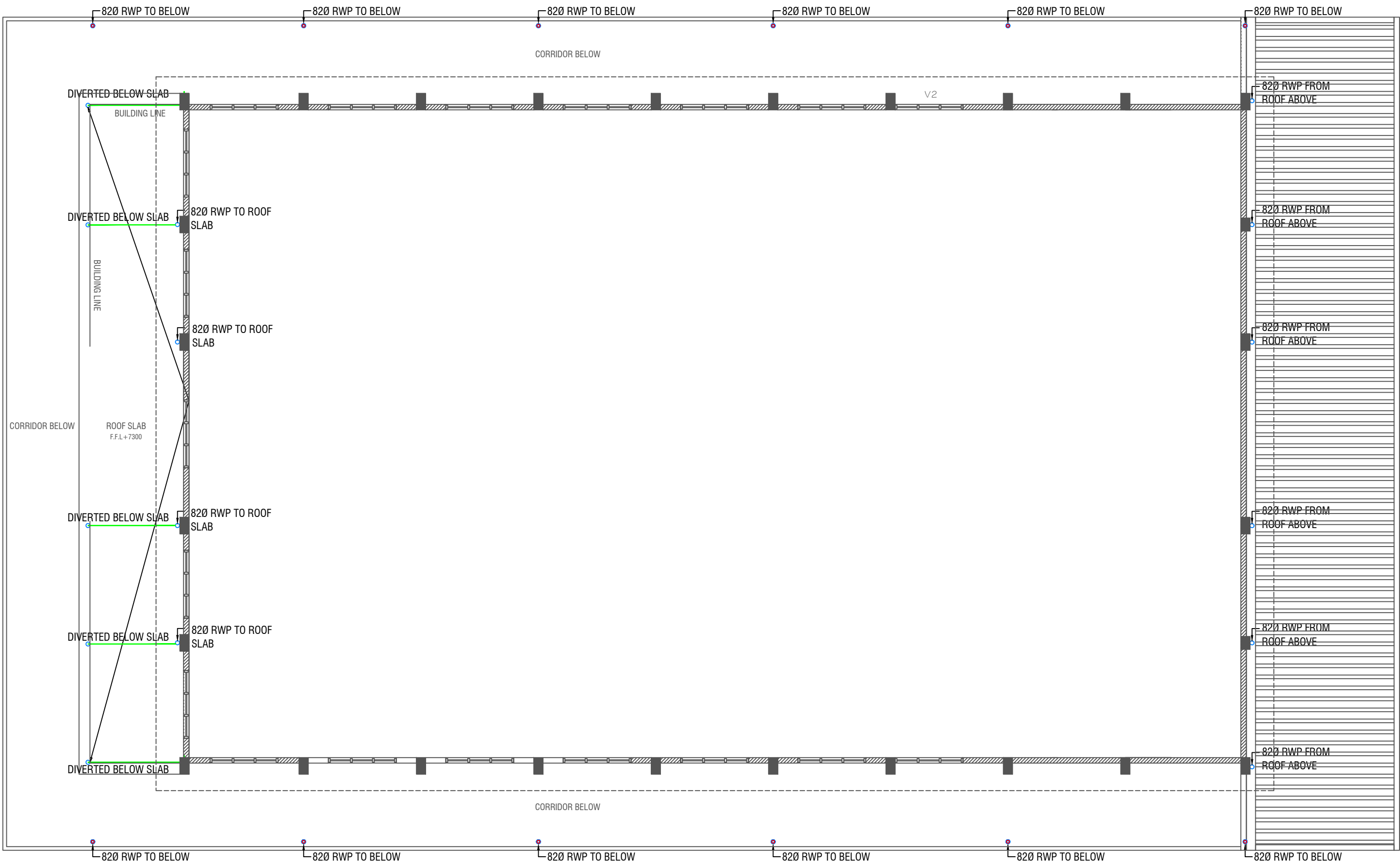


- RWP — 82/50 Ø RAINWATER PIPE
- RWO — 82/50 Ø DRAIN OUTLET
- CD — 25 Ø DRAIN PIPE
- MHVP — 50 Ø MANHOLE VENT PIPE

**NOTE:**  
 - ALL RAINWATER PIPES TO BE AT GROUND LEVEL  
 DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT

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## ROOF PLAN - 1 DRAINAGE LAYOUT

SCALE 1:100

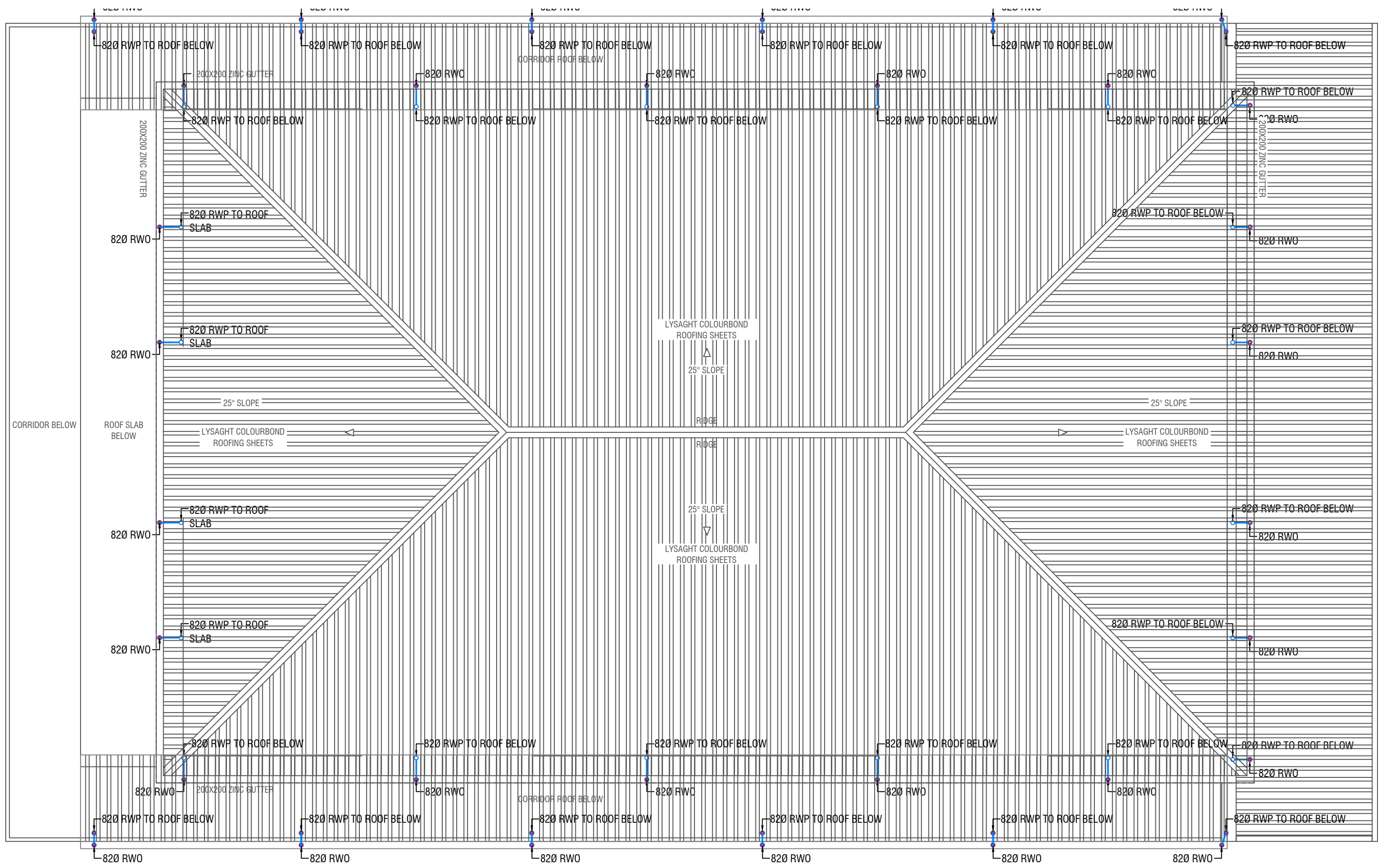


- RWP — 82/50 Ø RAINWATER PIPE
- RWO ● 82/50 Ø DRAIN OUTLET
- CD — 25 Ø DRAIN PIPE
- MHVP — 50 Ø MANHOLE VENT PIPE

**NOTE:**  
 - ALL RAINWATER PIPES TO BE AT GROUND LEVEL  
 DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT

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Project Number	Date
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## ROOF PLAN - 2 DRAINAGE LAYOUT

SCALE 1:100

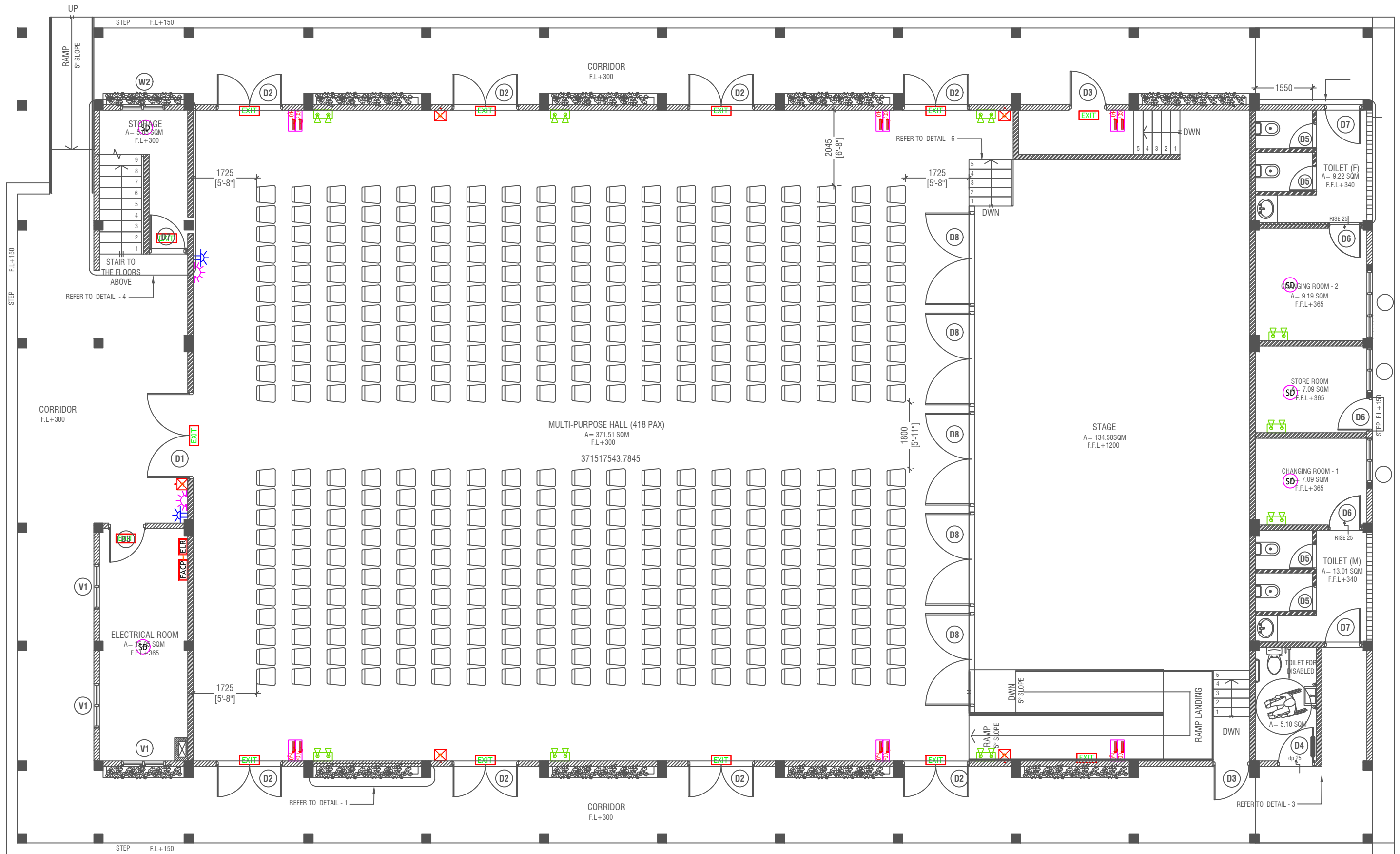


- RWO ● 82/50 Ø DRAIN OUTLET
- CD — 25 Ø DRAIN PIPE
- MHVP —○ 50 Ø MANHOLE VENT PIPE

**NOTE:**  
 - ALL RAINWATER PIPES TO BE AT GROUND LEVEL  
 DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT

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# GROUND FLOOR FDP LAYOUT

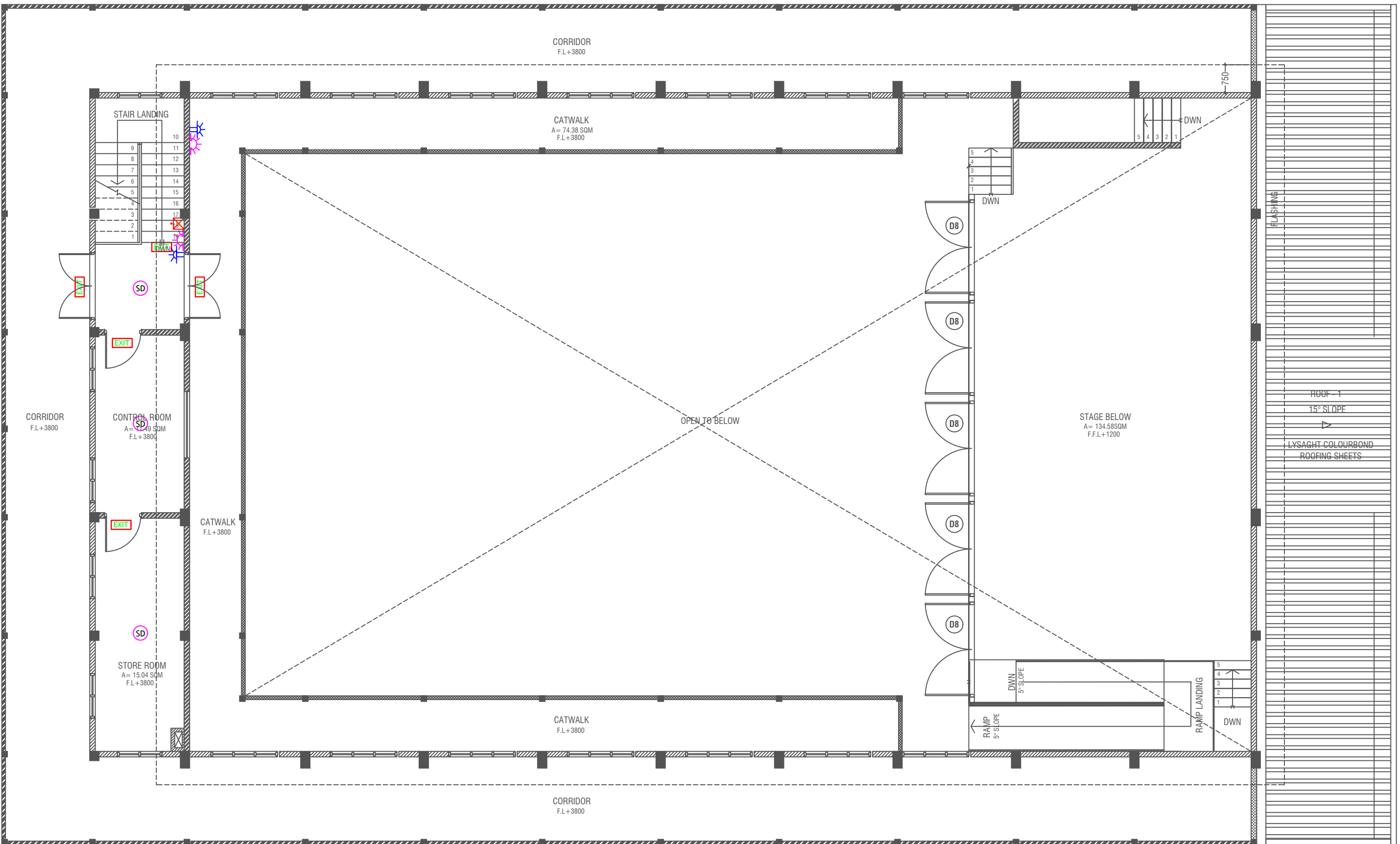


- LEGEND**
- SD SMOKE DETECTOR
  - HD HEAT DETECTOR
  - EXIT EXIT SIGN
  - ⚡ EMERGENCY LIGHT
  - CO<sub>2</sub> CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
  - 7.2KG WET CHEMICAL FIRE EXTINGUISHER (LOAD 7.2KG)
  - 9L H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)
  - ELR END OF LINE RESISTANCE
  - FACP FIRE ALARM CONTROL PANEL
  - MCP MANUAL CALL POINT (RESETTABLE)
  - ⚡ BEACON
  - ⚡ SOUNDER BELL (85 DB)

- 1. ALL PIPES SHOULD BE GALVANIZED, SCHEDULE 40.
- 2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
- 3. ALL SUPPORT/BRAKET SHALL BE HOT DIPPED GALVANIZED TO 100MM.
- 4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

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# FIRST FLOOR FDP LAYOUT

SCALE 1:100

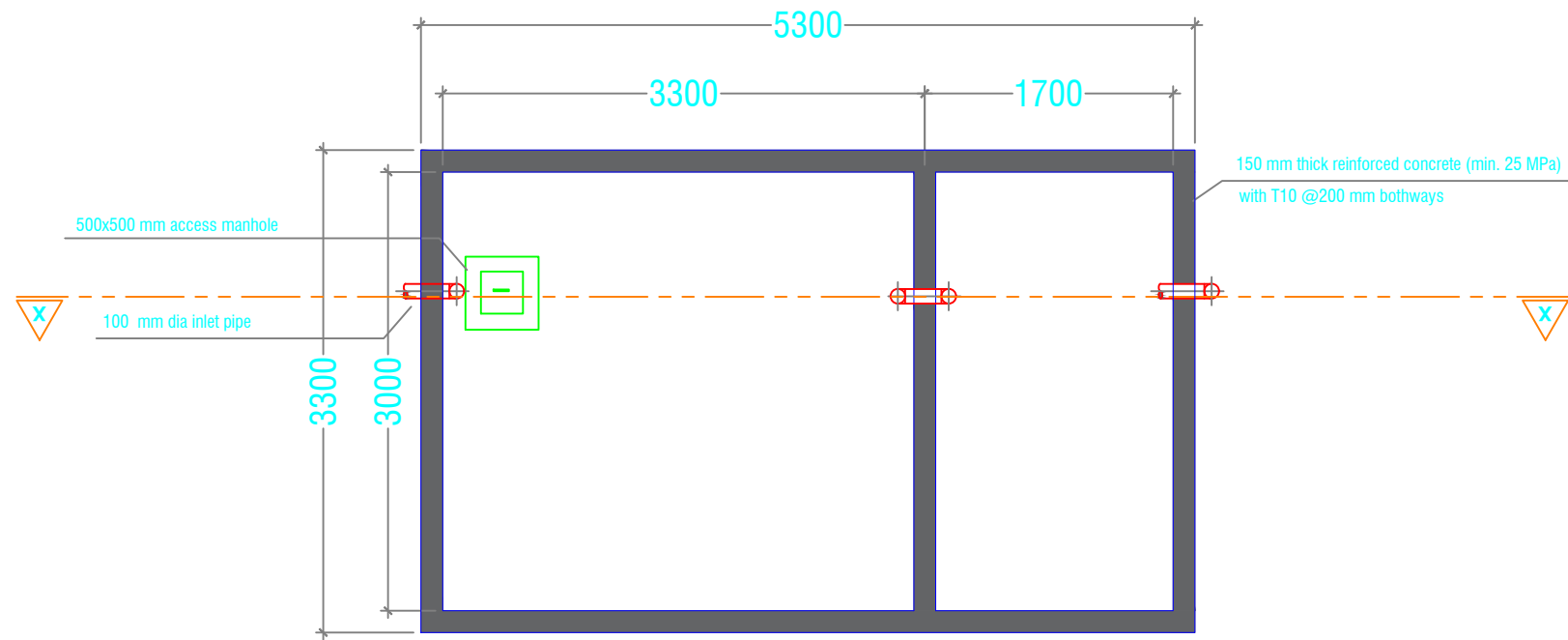


- LEGEND**
- SD SMOKE DETECTOR
  - HD HEAT DETECTOR
  - EXIT EXIT SIGN
  - EM EMERGENCY LIGHT
  - CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE (TYP.)
  - WET CHEMICAL FIRE EXTINGUISHER (LOAD: 7.2KG)
  - H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE (TYP.)
  - ELR END OF LINE RESISTANCE
  - FACP FIRE ALARM CONTROL PANEL
  - MANUAL CALL POINT (RESETTABLE)
  - BEACON
  - SOUNDER BELL (85 DB)

- ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)
- 1. ALL PIPES SHOULD BE GALVANIZED (SCHEDULE 40).
- 2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
- 3. ALL SUPPORT/BRAKETS SHALL BE HOT DIPPED GALVANIZED TO 100µM.
- 4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

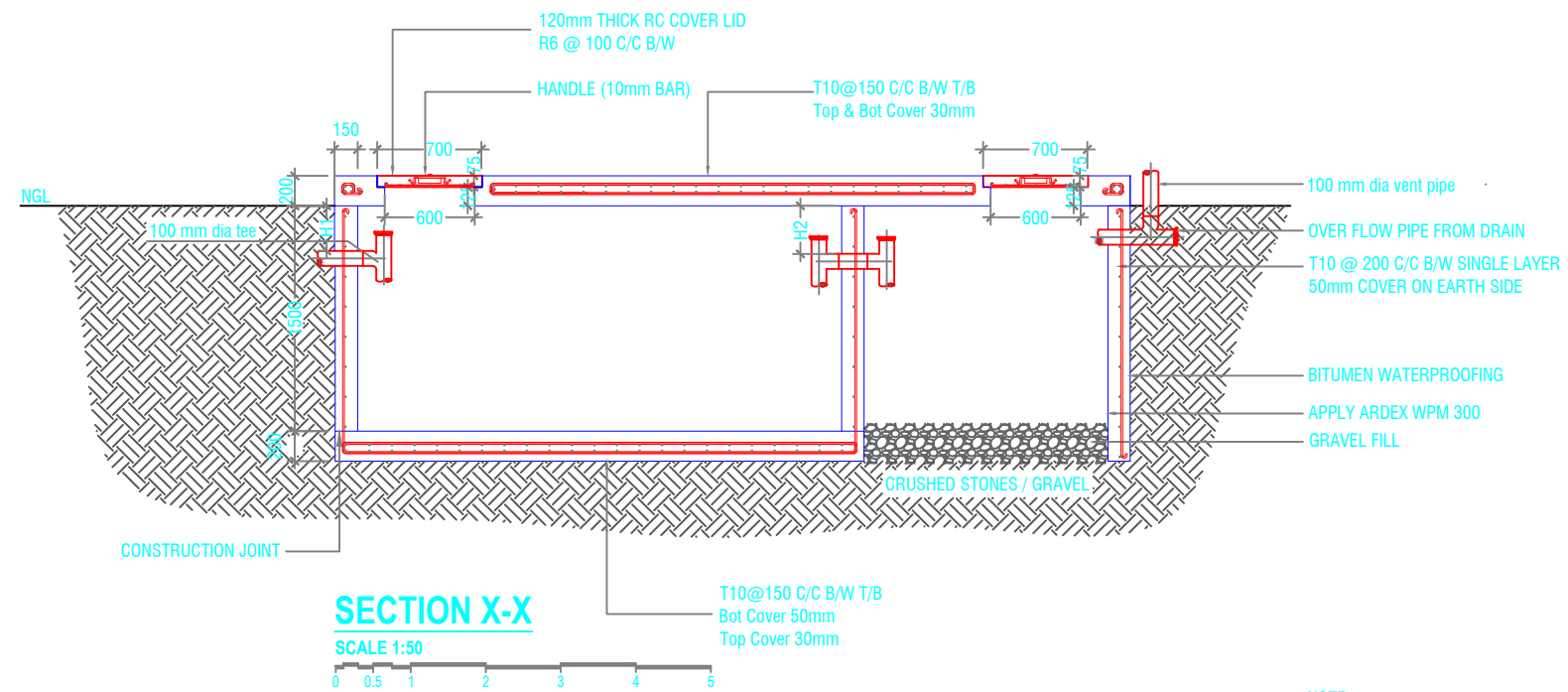
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**PLAN**

SCALE 1:50



**SECTION X-X**

SCALE 1:50



**SEPTIC TANK DETAIL**

SCALE 1:50



**NOTE:**

H1 < H2

- TOP AND BOTTOM OF SEPTIC TANK SHOULD BE OF 200mm THICK
- BITUMINOUS WATERPROOFING TO BE APPLIED BELOW GROUND SURFACE
- REINFORCEMENT TO HAVE A COVER OF 50mm FROM EARTH

Rev no	Date

Project Number: .....

Date: February 2024

Architect: .....

Drawn by: .....

Services: .....

Interior: .....