

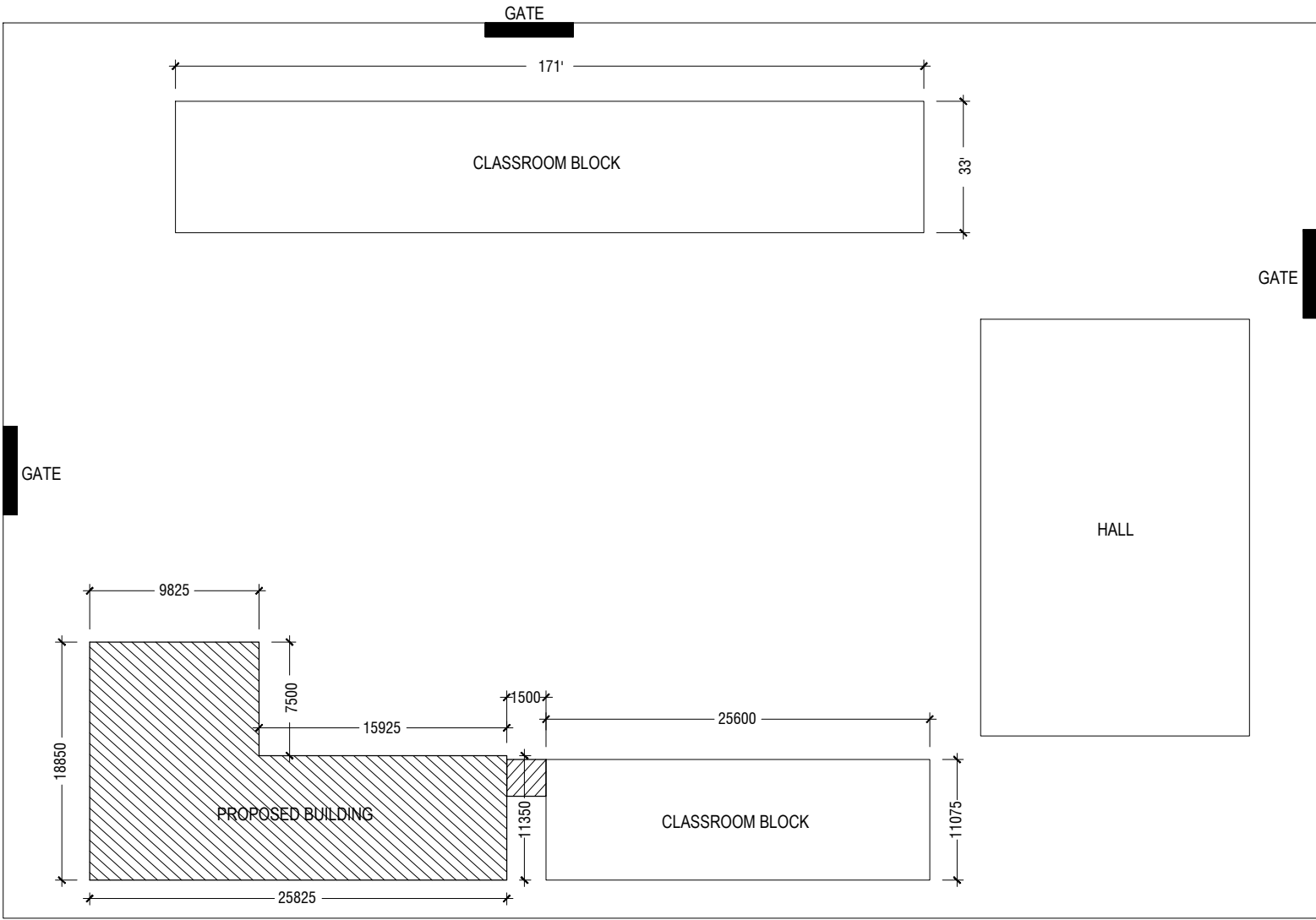
Proposed 16 Classroom
HAFIZ AHMED SCHOOL
Gn. Fuvahmulah
(04 Storey)

ARCHITECTURAL & STRUCTURAL DRAWINGS

Ministry of Education
Male', Republic of Maldives

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SITE PLAN

SCALE 1:100



NOTE:

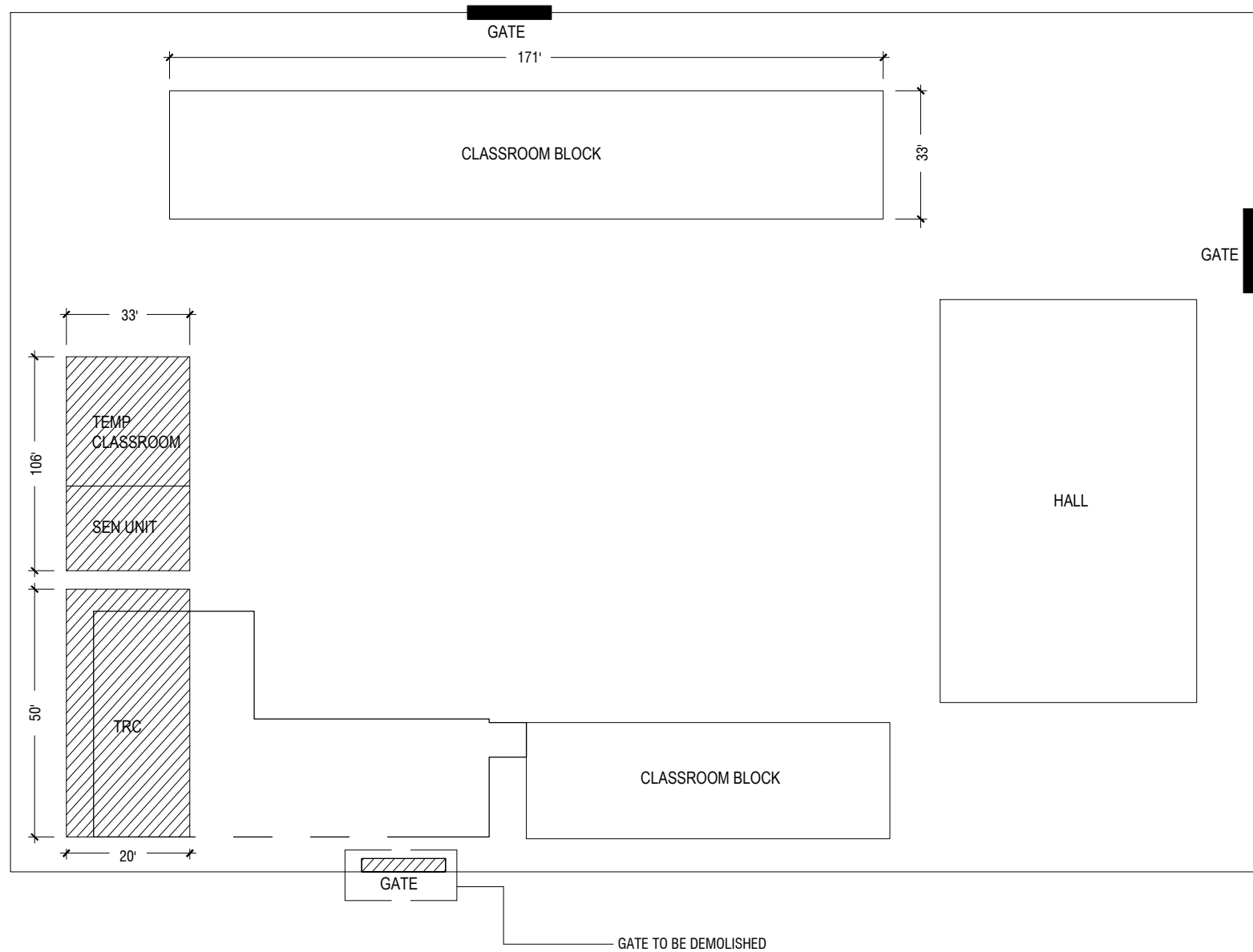


PROPOSED BUILDING LOCATION (NOT TO SCALE)
SIZE AVAILABLE AT THE PLOT

EXISTING BLOCKS AT THE PROPOSED SITE NEED TO BE
DEMOLISHED. (TO BE CONFIRMED ON SITE)

NEW GATE LOCATION TO BE CONFIRMED FROM THE SCHOOL

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 01 / 28		



DEMOLITION PLAN

SCALE 1:100



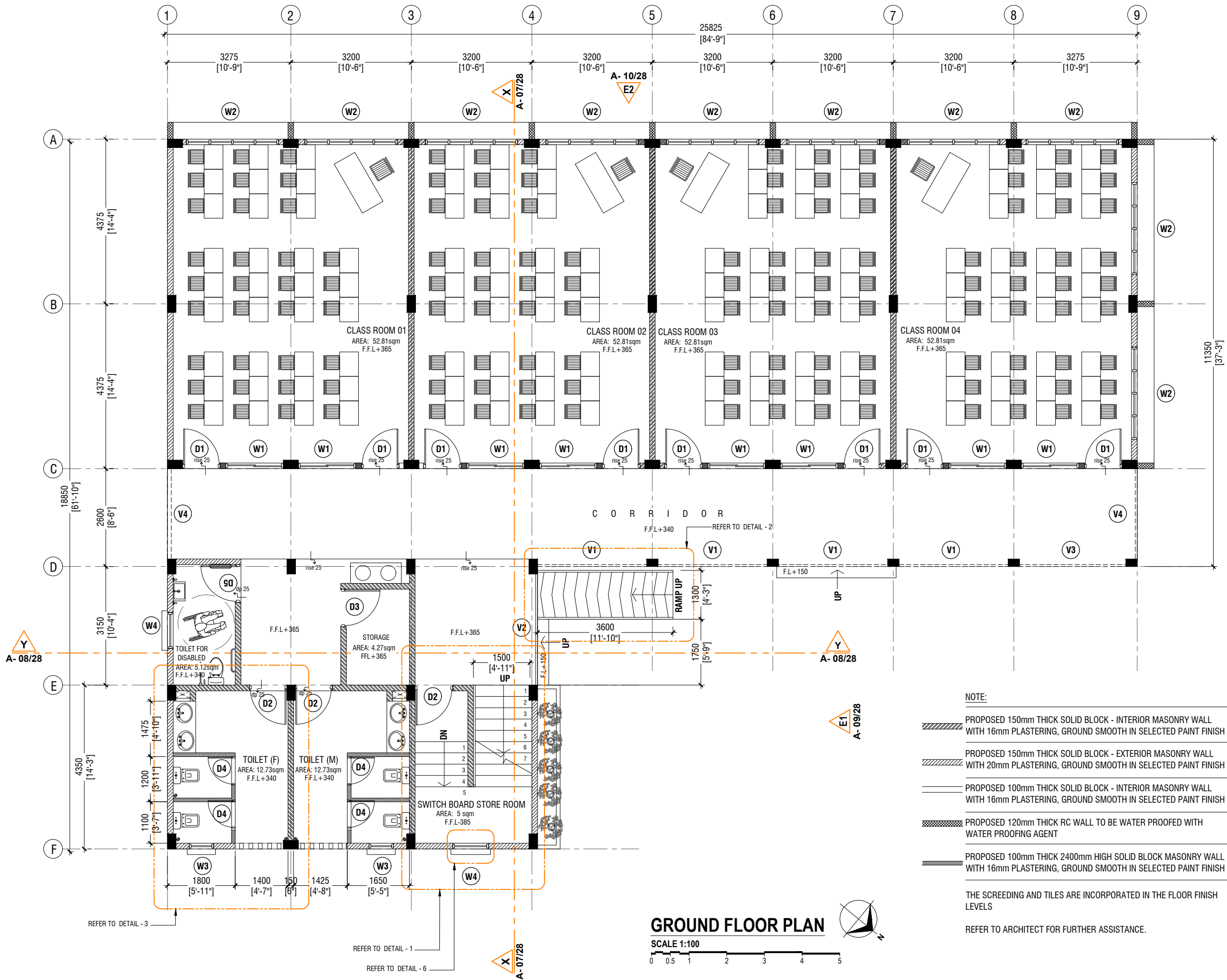
NOTE:

———— BUILDING TO BE DEMOLISHED

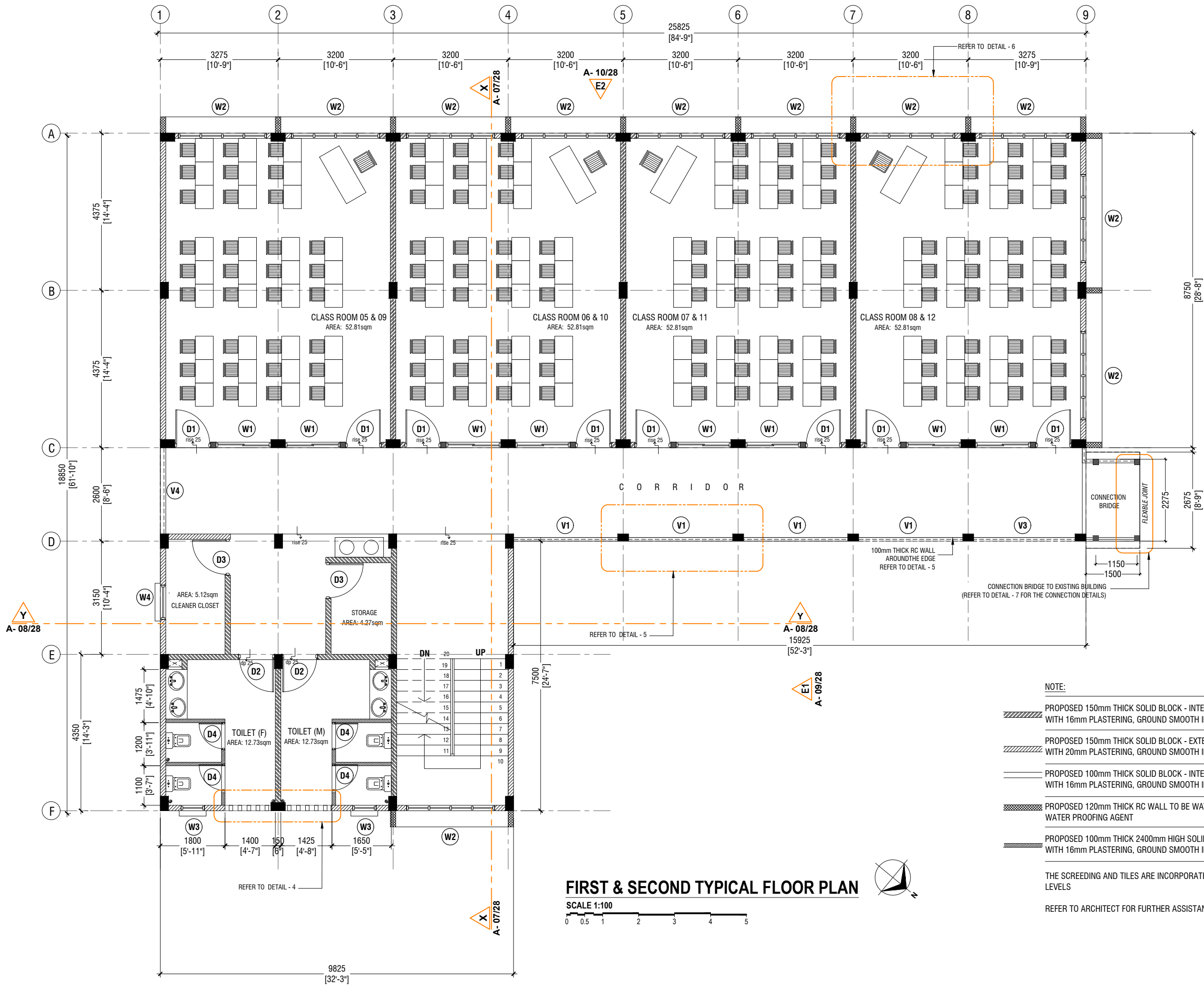


EXISTING BLOCKS AT THE PROPOSED SITE NEED TO BE DEMOLISHED. (TO BE CONFIRMED ON SITE)

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Issue	Date	Description
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PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
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DATE : 20.09.2021		
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FIRST & SECOND TYPICAL FLOOR PLAN

SCALE 1:100

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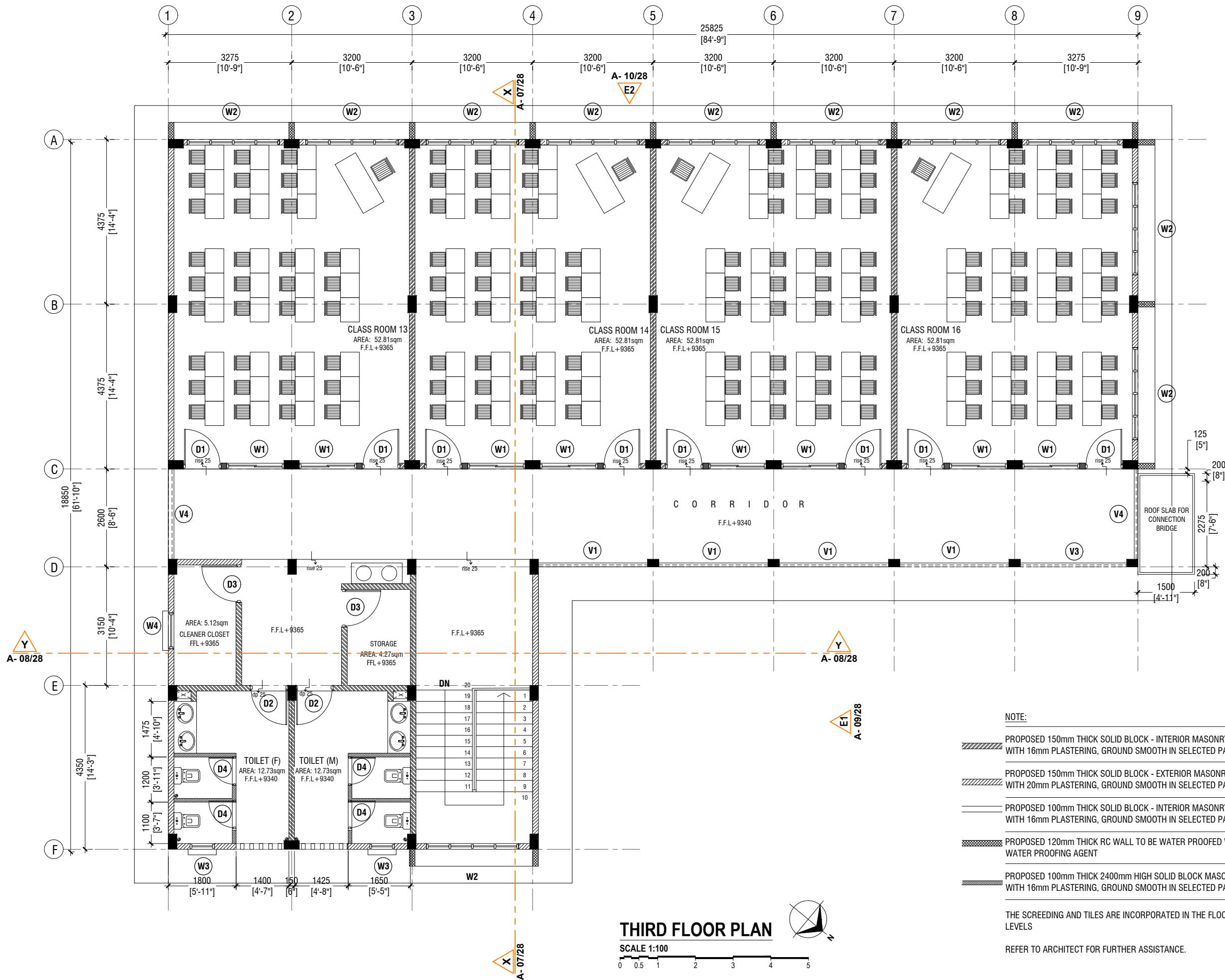
NOTE:

- 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 SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 120mm 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

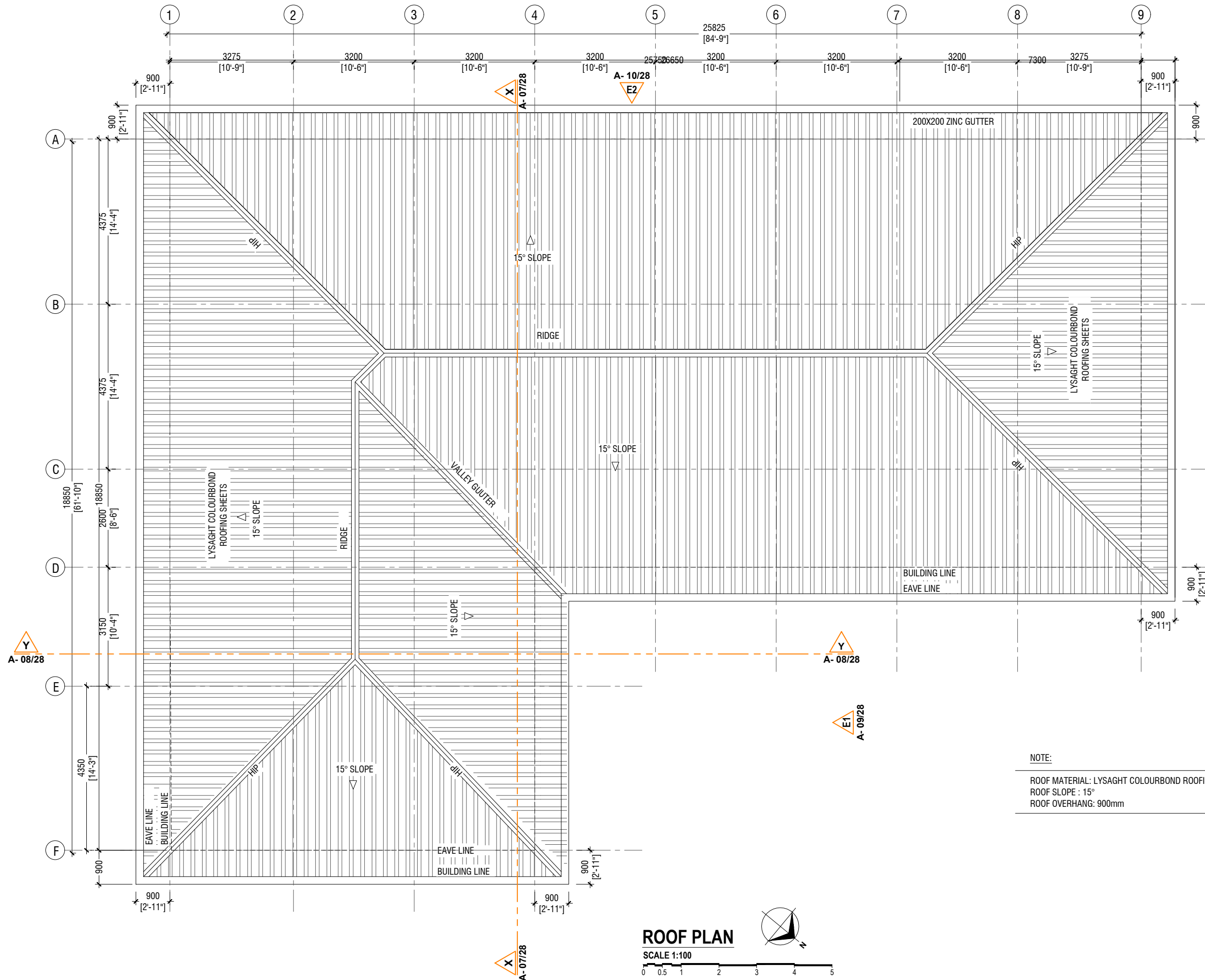
THE SCREEDING AND TILES ARE INCORPORATED IN THE FLOOR FINISH LEVELS

REFER TO ARCHITECT FOR FURTHER ASSISTANCE.

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AMMENDMENTS.		
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CLIENT : MINISTRY OF EDUCATION		
ARCHITECT :		
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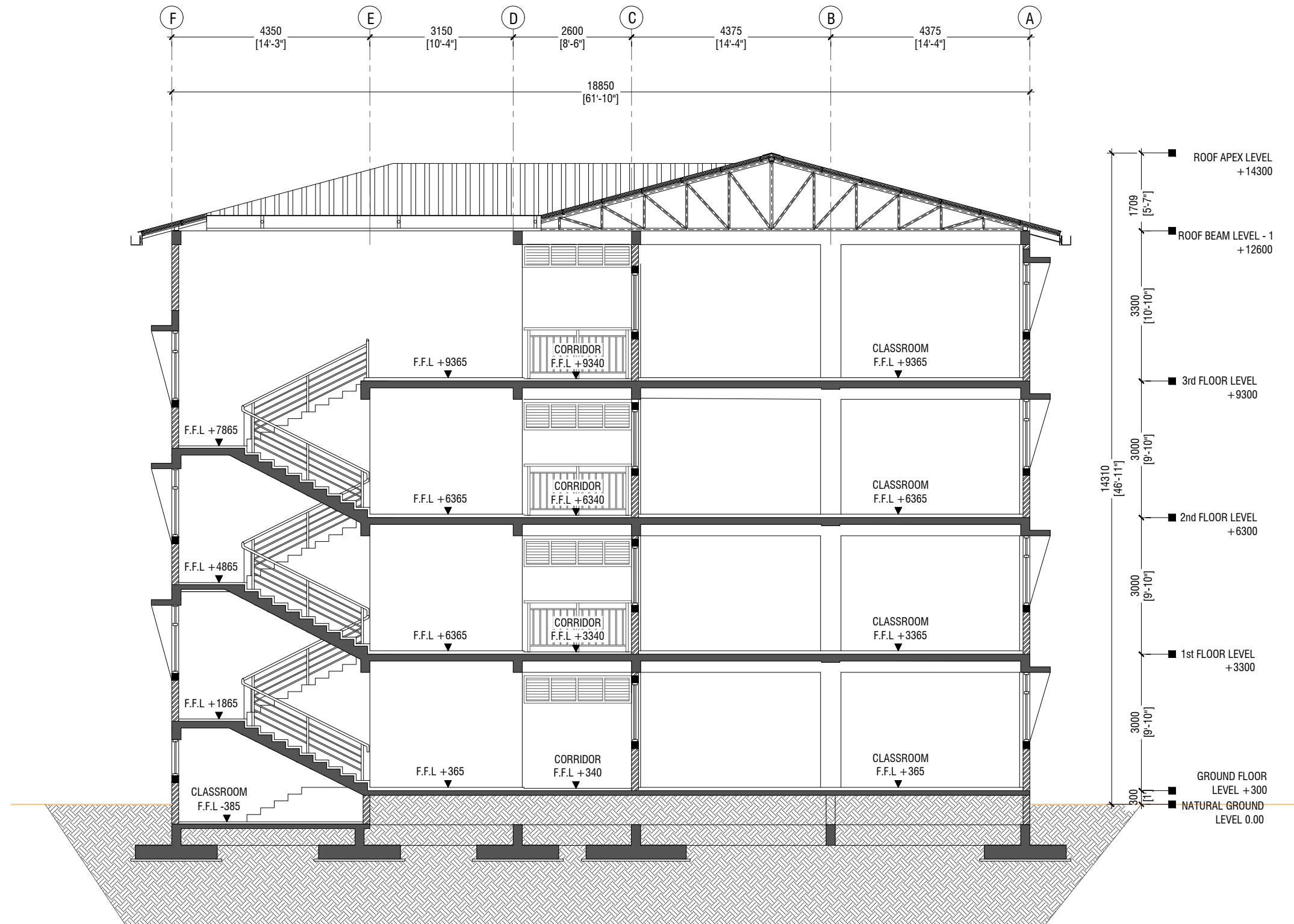
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NOTE:

ROOF MATERIAL: LYSAGHT COLOURBOND ROOFING SHEETS
ROOF SLOPE : 15°
ROOF OVERHANG: 900mm

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ENGINEER :		
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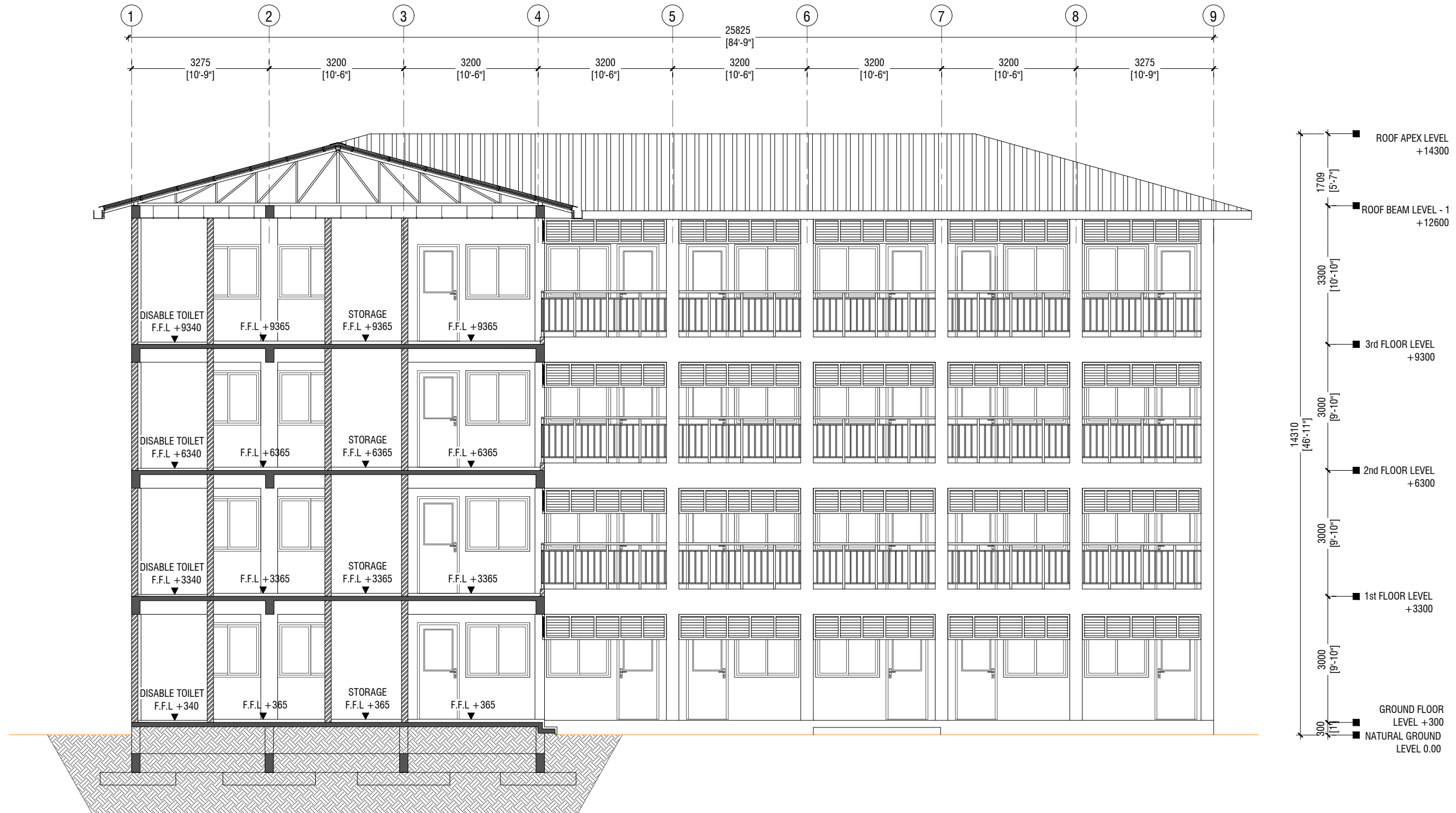


SECTION X-X

SCALE 1:100



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 07 / 28		



SECTION Y-Y

SCALE 1:100

Issue	Date	Description
AMMENDMENTS.		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 08 / 28		

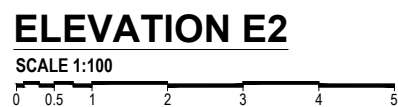


ELEVATION E1

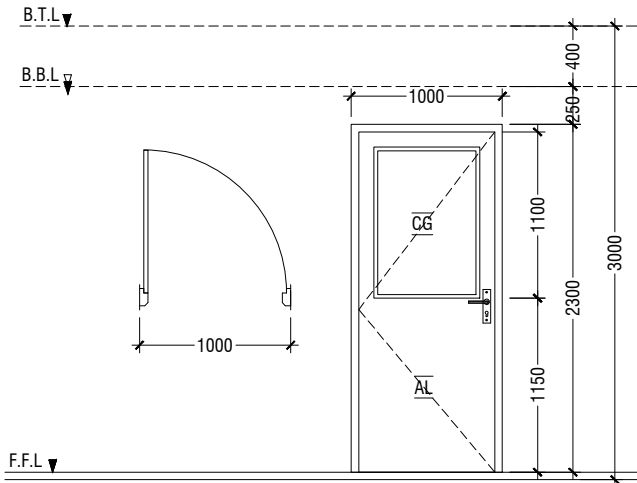
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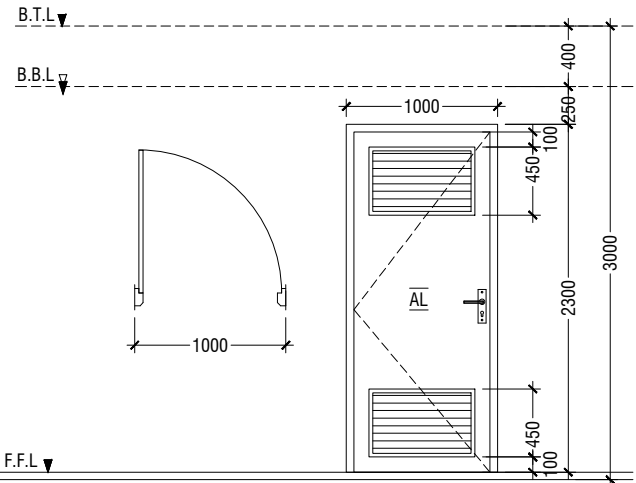
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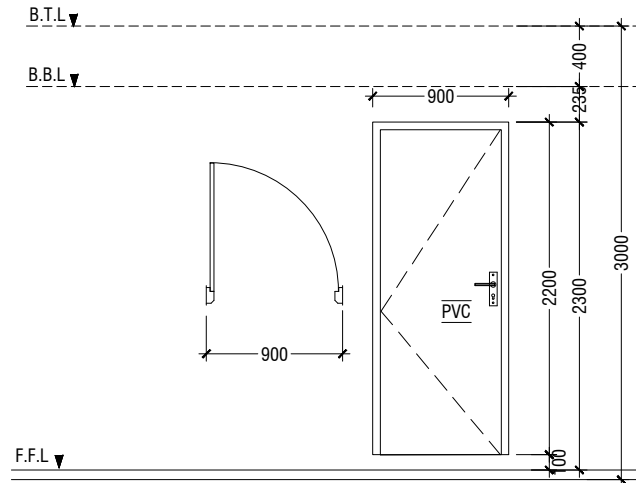
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AMMENDMENTS.		
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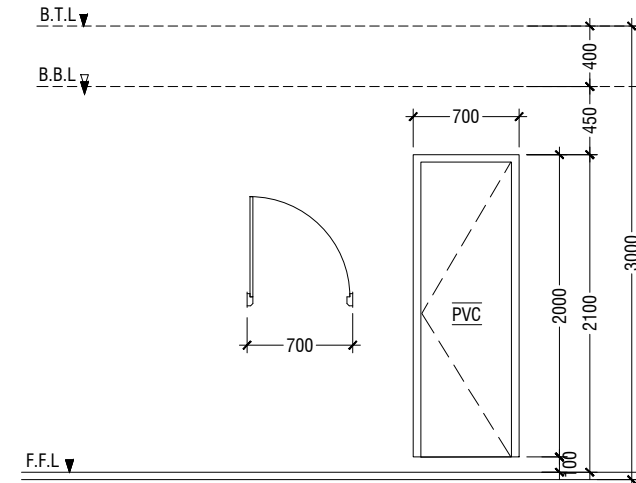
D1	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	32 NOS
OPEN AREA	2.03 sqm



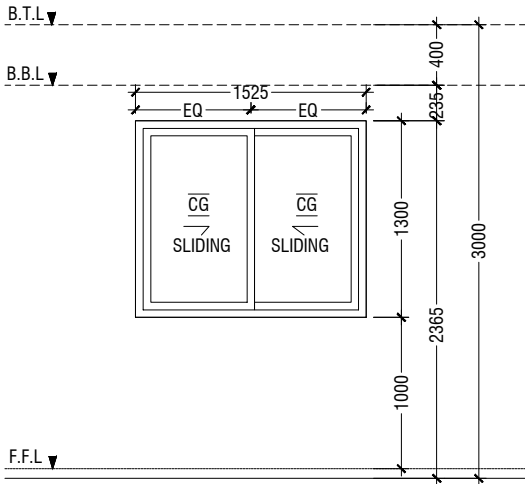
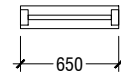
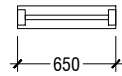
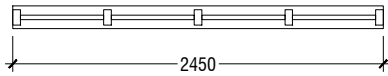
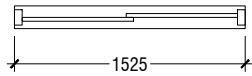
D2	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	09 NOS
OPEN AREA	2.03 sqm



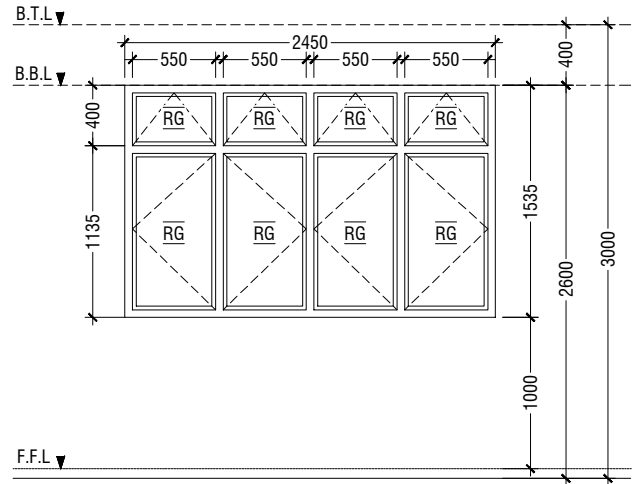
D3	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	STORE & CLEANER CLOSET
QUANTITY	07 NOS
OPEN AREA	1.72 SQM



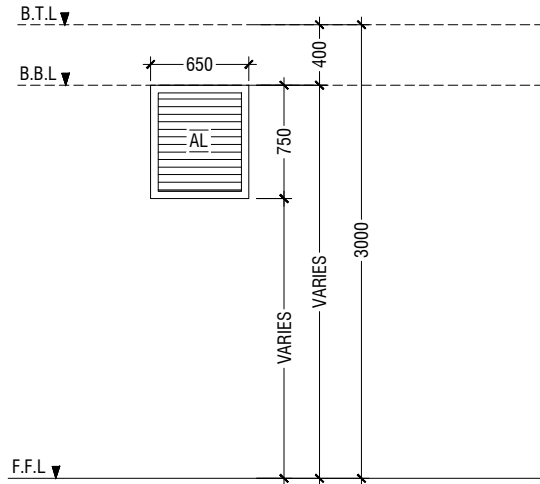
D4	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS STALLS
QUANTITY	16 NOS
OPEN AREA	1.17 SQM



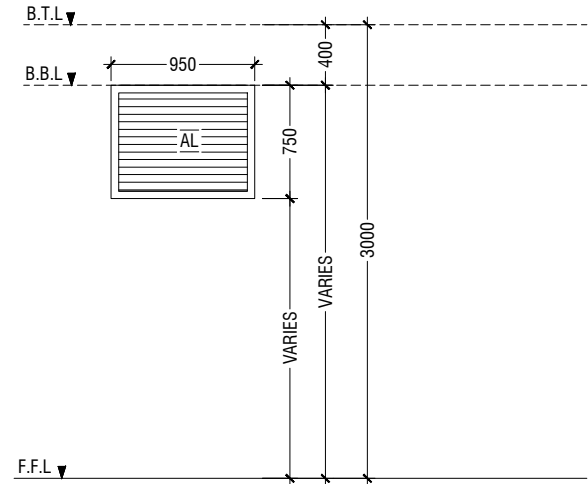
W1	SLIDING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	32 NOS
OPEN AREA	0.83 sqm



W2	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	CLASSROOMS
QUANTITY	43 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	08 NOS
OPEN AREA	0.36 SQM



W4	WINDOW WITH ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	DISABLE TOILET, CLEANER CLOSET & SWITCH BOARD ROOM
QUANTITY	05 NOS
OPEN AREA	0.55 SQM

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

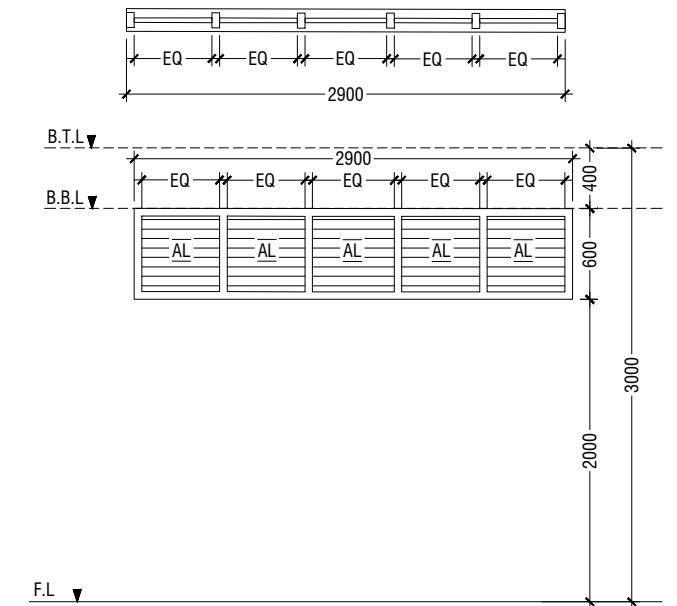
NOTE:-
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW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

DOOR & WINDOW SCHEDULE - 1

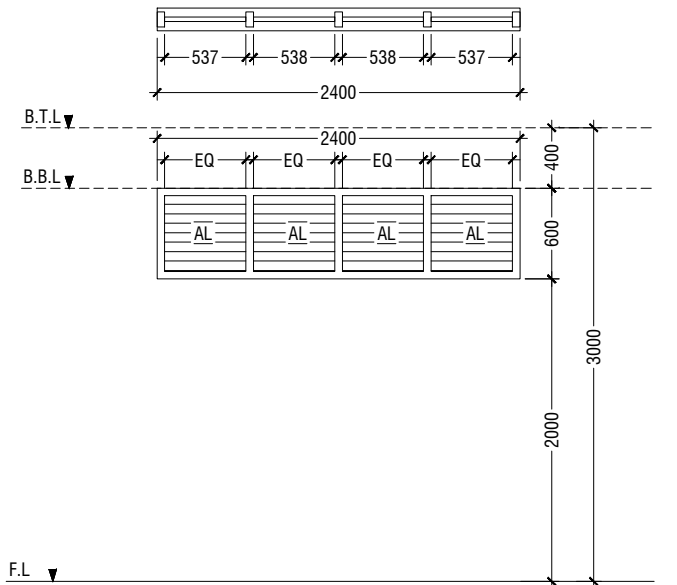
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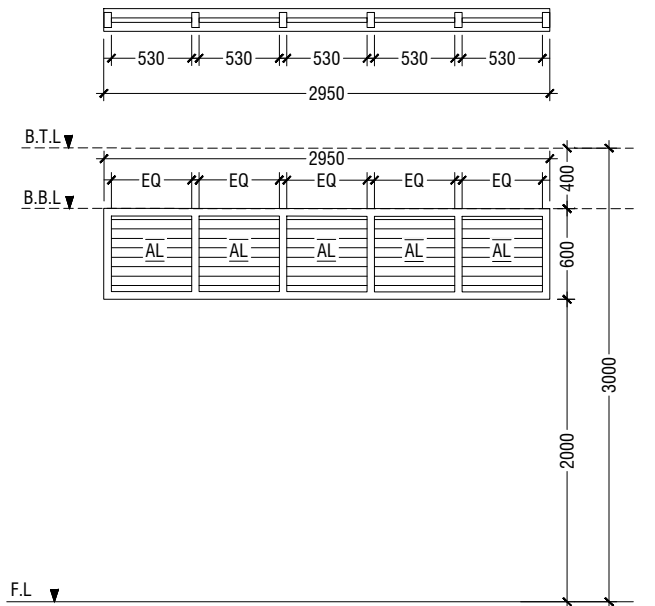
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PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
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ARCHITECT :		
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DWG NO : A 11 / 28		



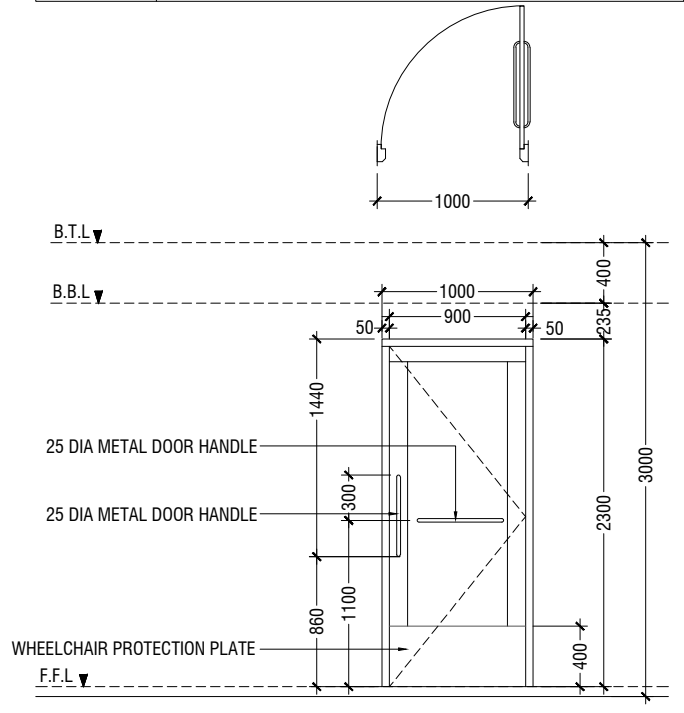
V1	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	16 NOS
OPEN AREA	1.23 SQM



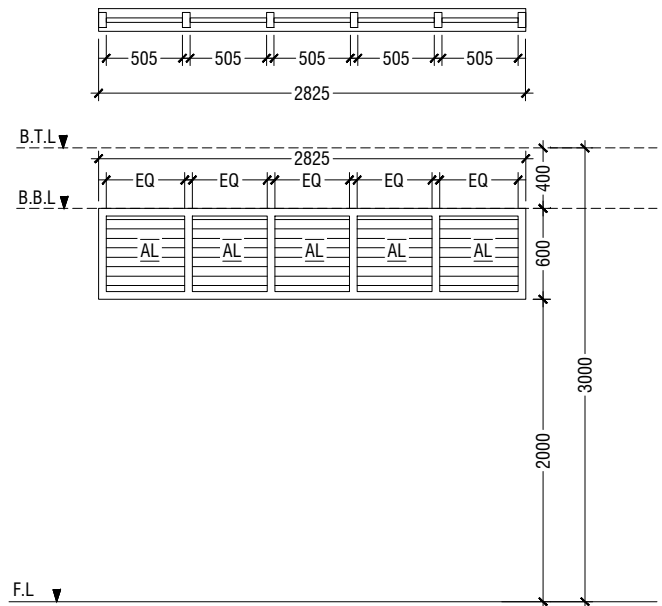
V4	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	06 NOS
OPEN AREA	1.08 SQM



V2	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	01 NOS
OPEN AREA	1.34 SQM



D5	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	DISABLED TOILET
QUANTITY	01 NOS
OPEN AREA	2.03 sqm



V3	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	04 NOS
OPEN AREA	1.34 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.
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- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

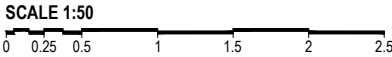
DOOR & WINDOW SCHEDULE - 2

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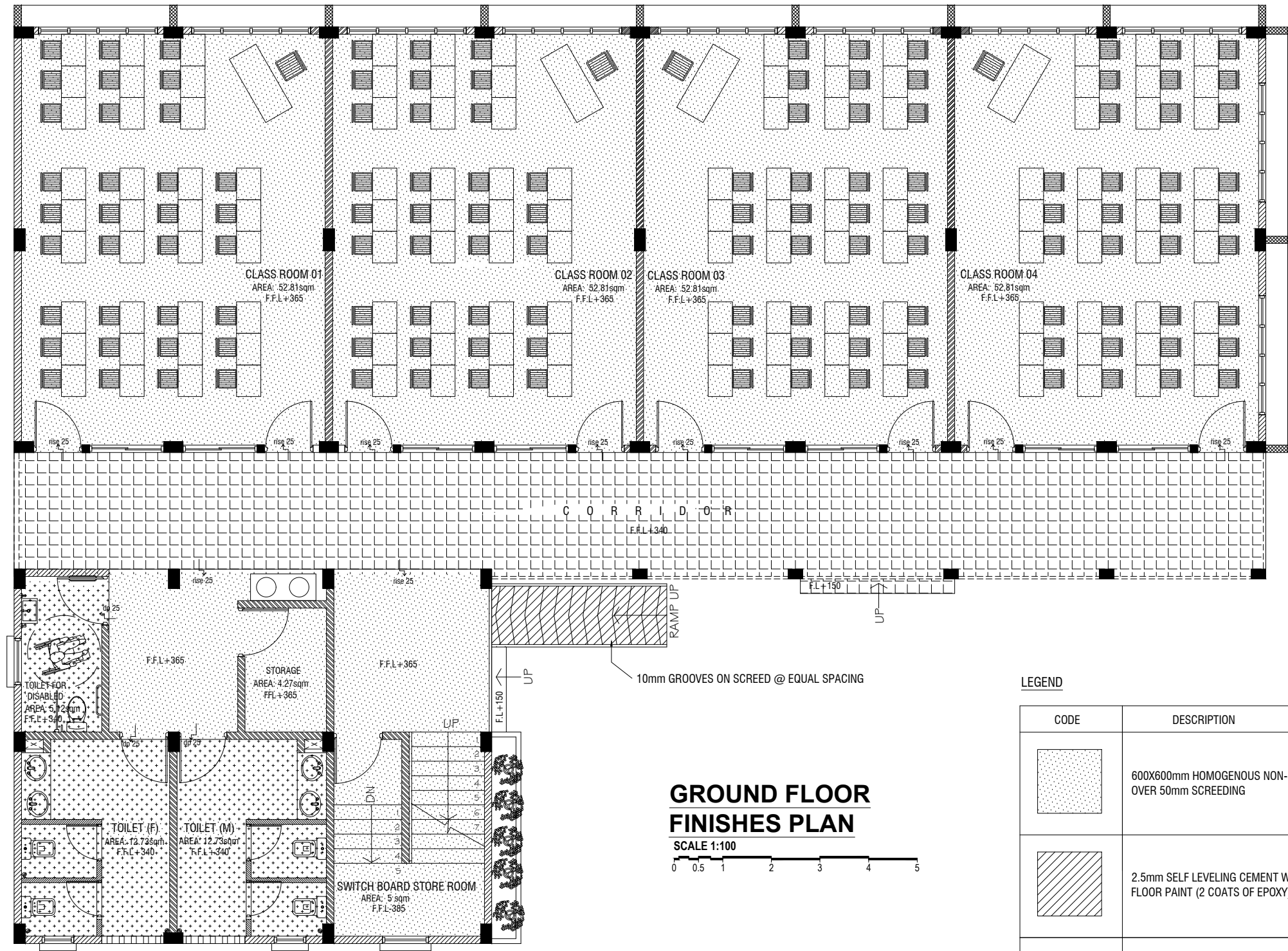
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DATE : 20.09.2021		
DWG NO : A 12 / 28		

SCHEDULE OF VENTILATION FOR HAFIZ AHMED SCHOOL						
Room name/ Number		Room Areas (sqm) (Specify centre to centre or clear)	Window (opening) number	Required opening areas (sqm)	Designed opening areas (sqm)	Open %
Ground Floor						
1	Class Room 01	52.81	2W1,2W2	5.281	7.6	14.39%
2	Class Room 02	52.81	2W1,2W2	5.281	7.6	14.39%
3	Class Room 03	52.81	2W1,2W2	5.281	7.6	14.39%
4	Class Room 04	52.81	2W1,2W2	5.281	7.6	14.39%
5	Toilet for Disable	5.12	1W4	0.512	0.55	10.74%
6	Storage	4.27	MECHANICAL VENTILATION			
6	Toilet (M)	12.73	1W3,RC FINS	1.273	3.86	30.32%
6	Toilet (F)	12.73	1W3,RC FINS	1.273	3.86	30.32%
6	Switch Board Store	5.1	1W4	0.51	0.55	10.78%
1st to 3rd Typical Floor Plan						
1	Class Room 01	52.81	2W1,2W2	5.281	7.6	14.39%
2	Class Room 02	52.81	2W1,2W2	5.281	7.6	14.39%
3	Class Room 03	52.81	2W1,2W2	5.281	7.6	14.39%
4	Class Room 04	52.81	2W1,2W2	5.281	7.6	14.39%
5	Cleaner Closet	5.12	1W4	0.512	0.55	10.74%
6	Storage	4.27	MECHANICAL VENTILATION			
6	Toilet (M)	12.73	1W3,RC FINS	1.273	3.86	30.32%
6	Toilet (F)	12.73	1W3,RC FINS	1.273	3.86	30.32%

VENTILATION SCHEDULE

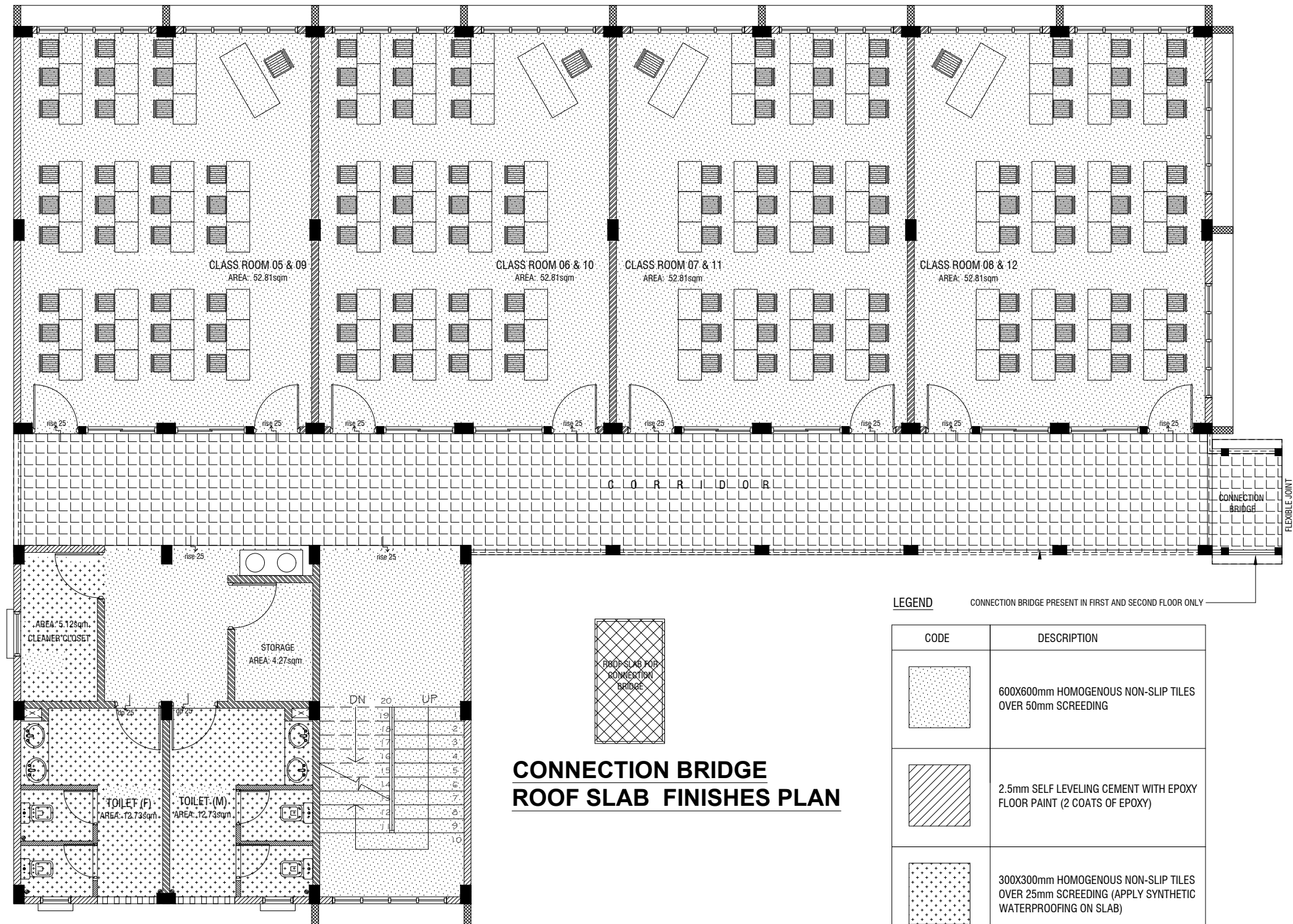


Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 13 / 28		



LEGEND	
CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY)
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (APPLY SYNTHETIC WATERPROOFING ON SLAB)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB)

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 14 / 28		



FIRST TO THIRD FLOOR
FINISHES PLAN

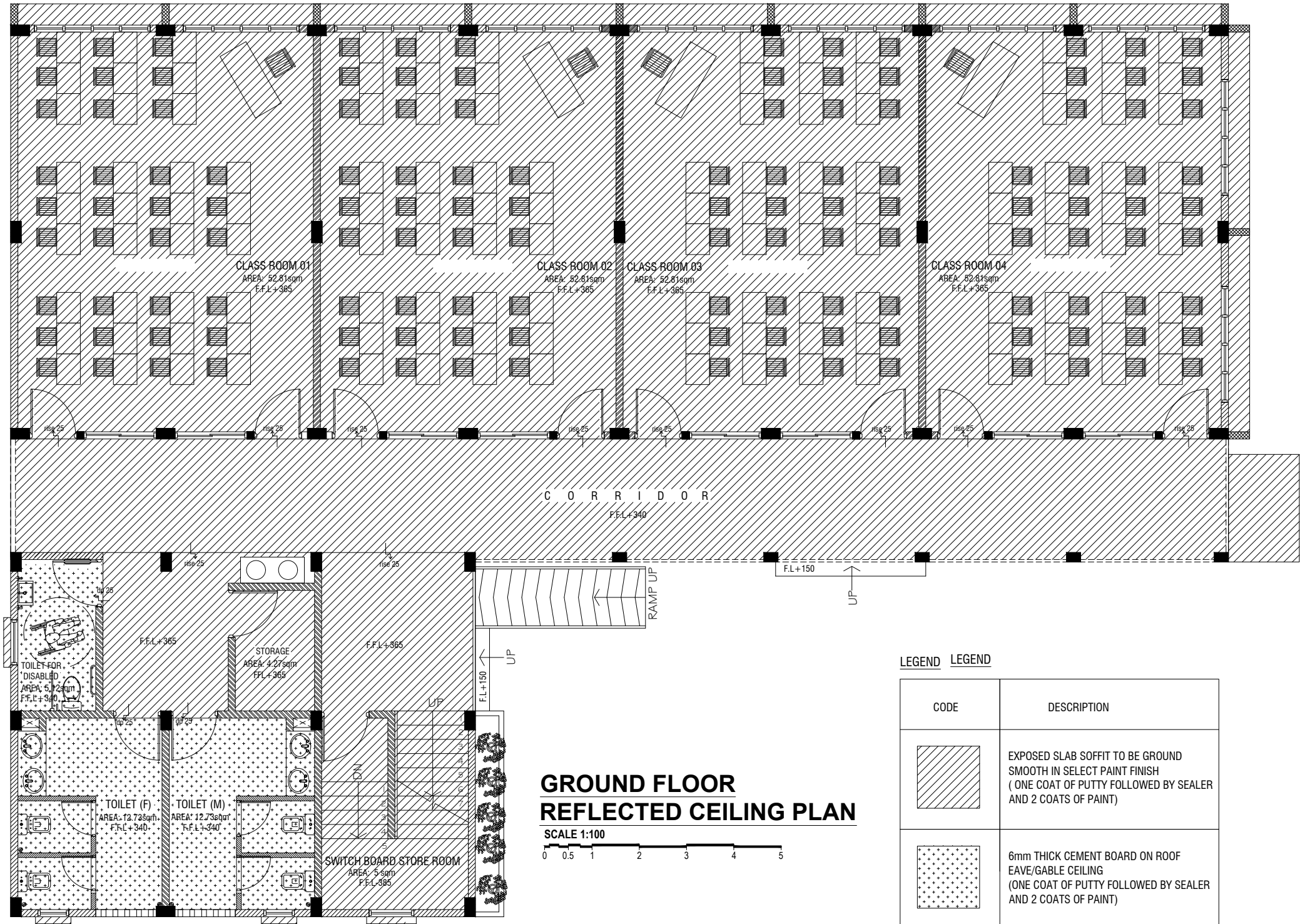
SCALE 1:100

CONNECTION BRIDGE
ROOF SLAB FINISHES PLAN

LEGEND CONNECTION BRIDGE PRESENT IN FIRST AND SECOND FLOOR ONLY

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY)
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (APPLY SYNTHETIC WATERPROOFING ON SLAB)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB)
	SELF LEVELLING CEMENT FLOOR SCREED WITH BITUMINOUS WATERPROOFING AGENT

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 15 / 28		

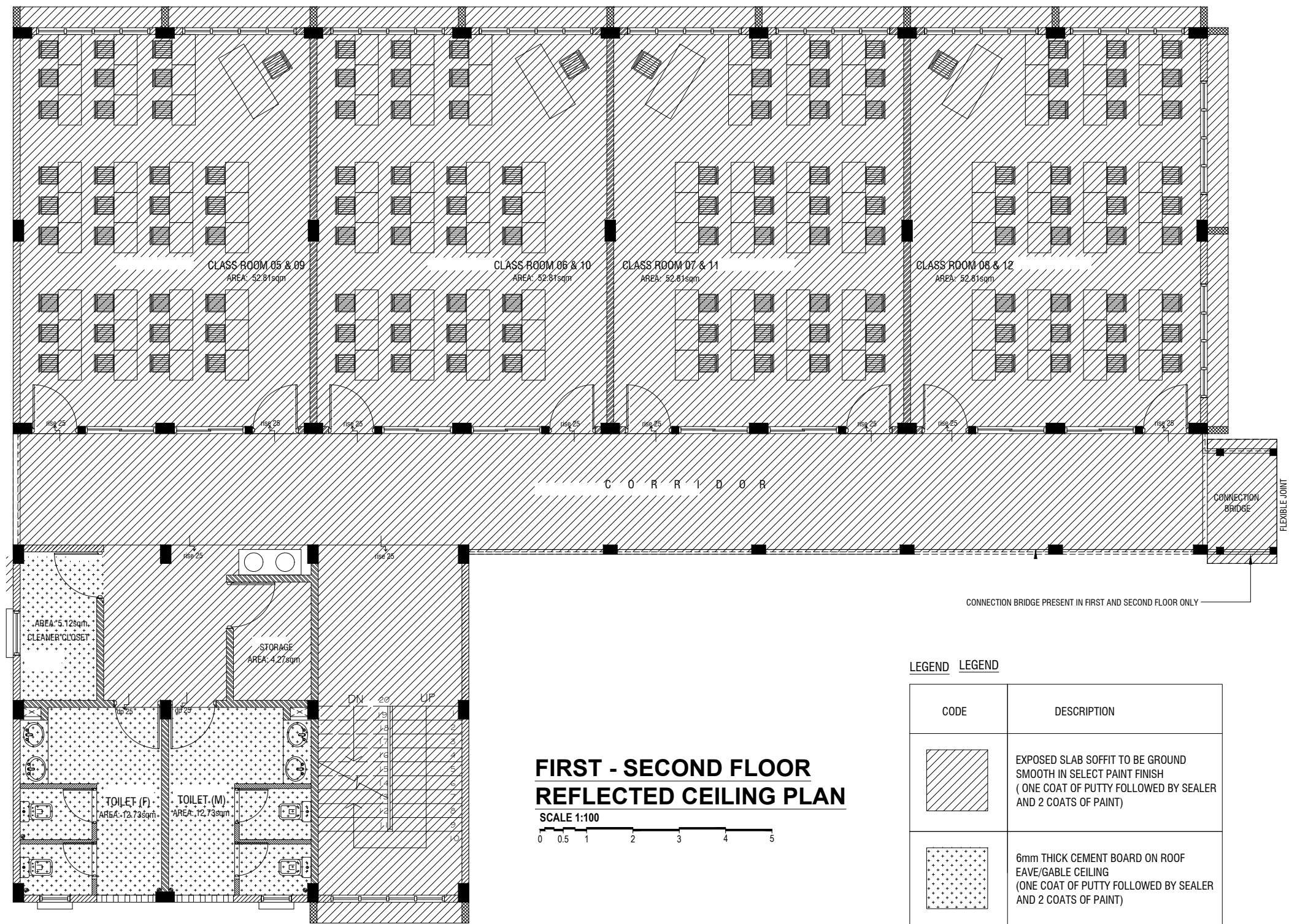


**GROUND FLOOR
REFLECTED CEILING PLAN**

SCALE 1:100
0 0.5 1 2 3 4 5

LEGEND	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 ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 16 / 28		



**FIRST - SECOND FLOOR
REFLECTED CEILING PLAN**

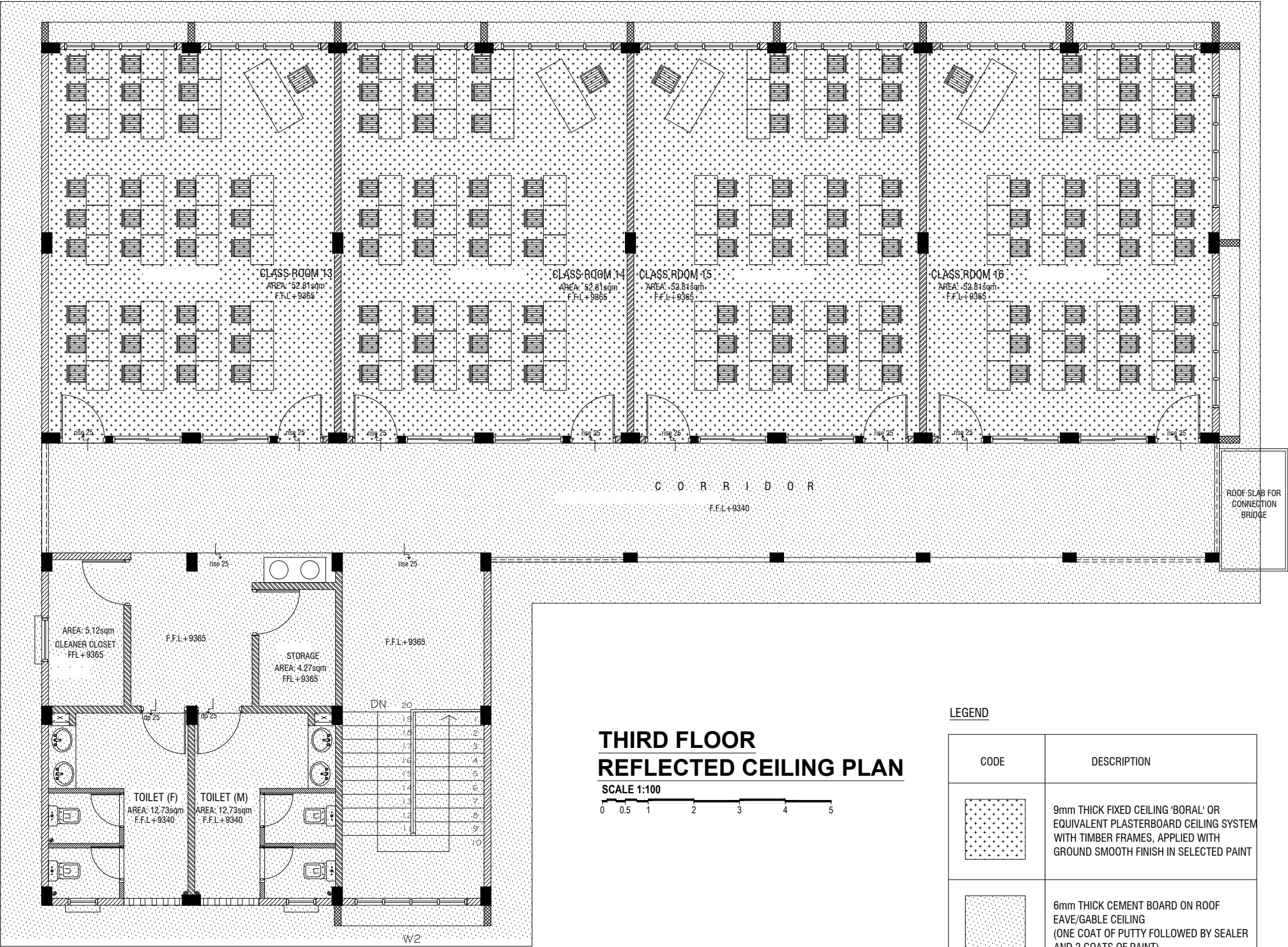
SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

CODE	DESCRIPTION
[Hatched Pattern]	EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)
[Dotted Pattern]	6mm THICK CEMENT BOARD ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 17 / 28		



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 18 / 28		

SECTION A-A

GROUND FLOOR STAIRCASE PLAN

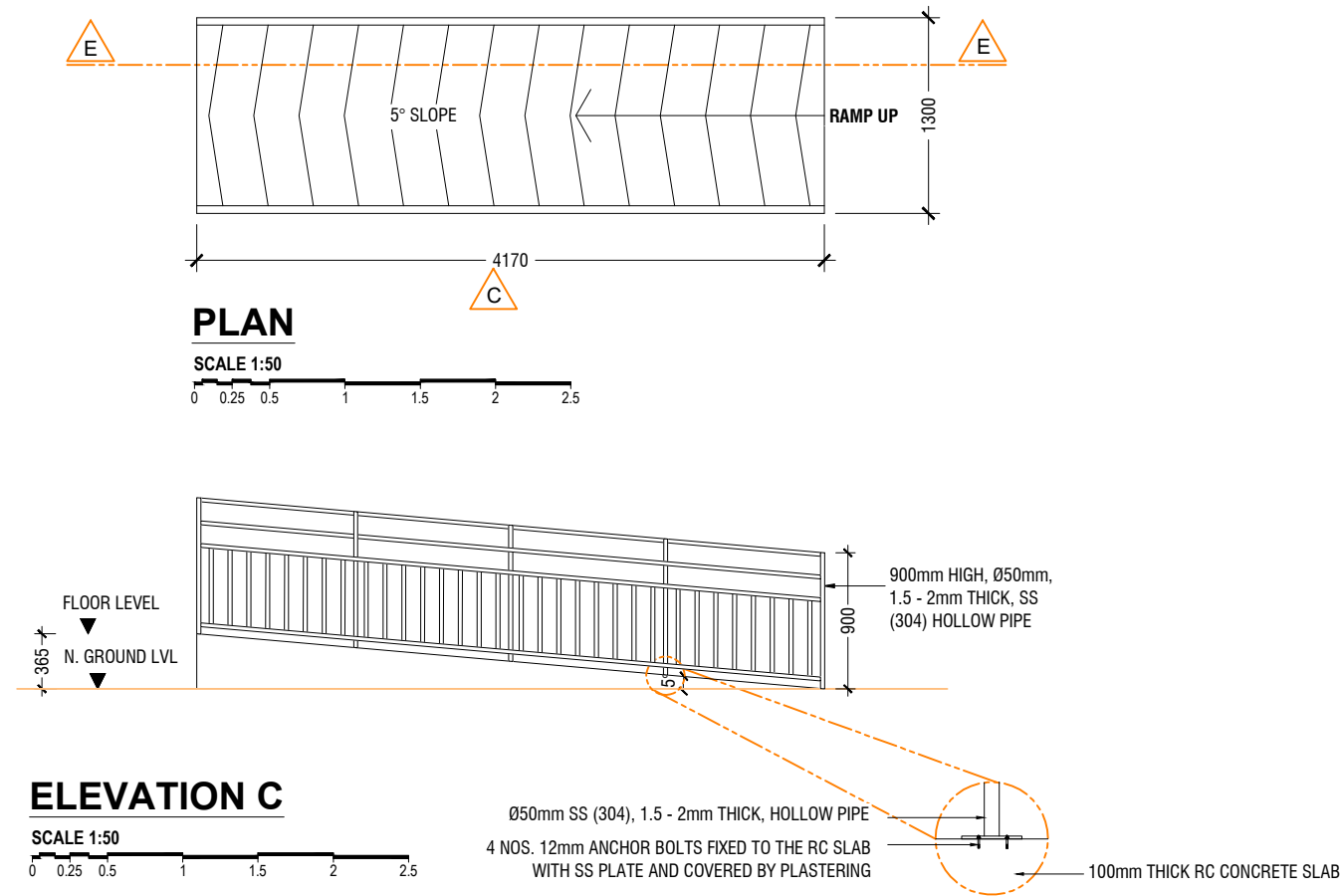
TYPICAL STAIRCASE PLAN

DETAIL B

DETAIL - 1

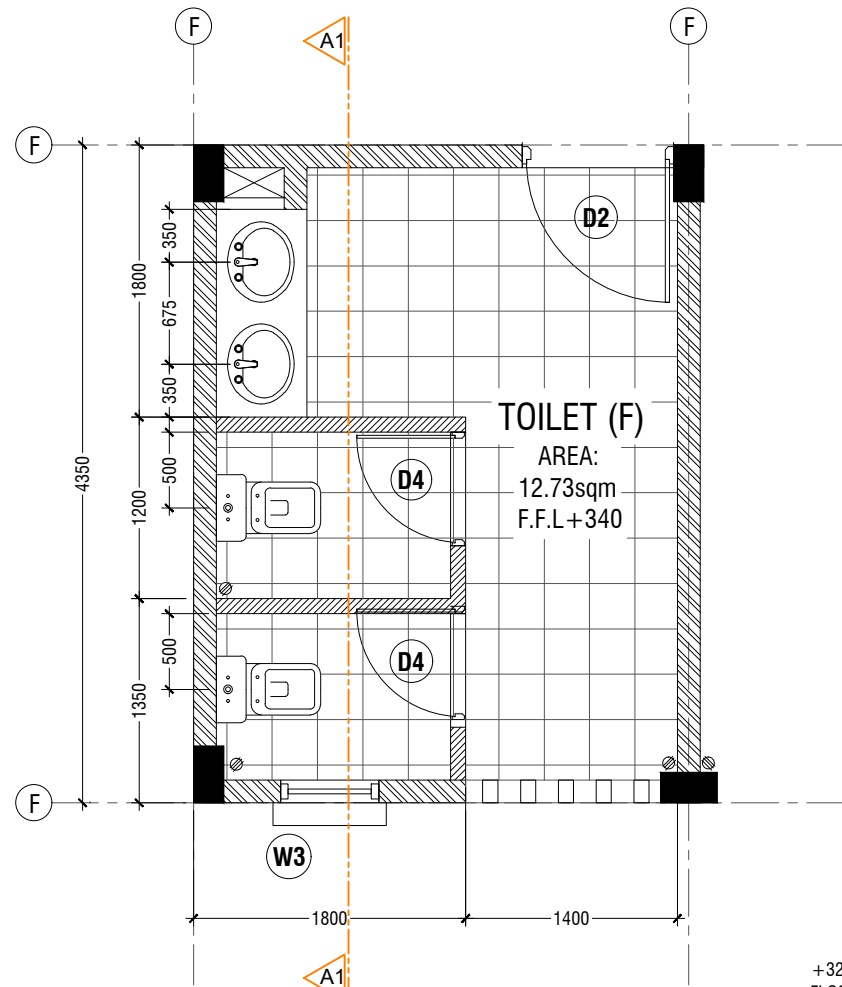
STAIRCASE DETAILS

Issue	Date	Description
AMENDMENTS.		
<p>PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES</p>		
<p>PROJECT</p> <p>HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH</p>		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 19 / 28		



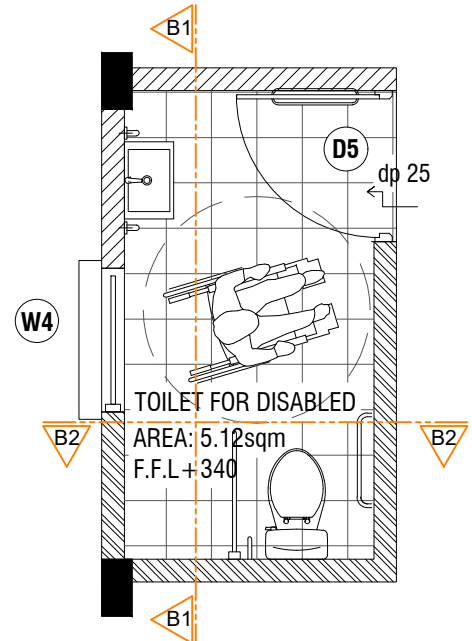
DETAIL -2
RAMP DETAILS
SCALE 1:20

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 20 / 28		



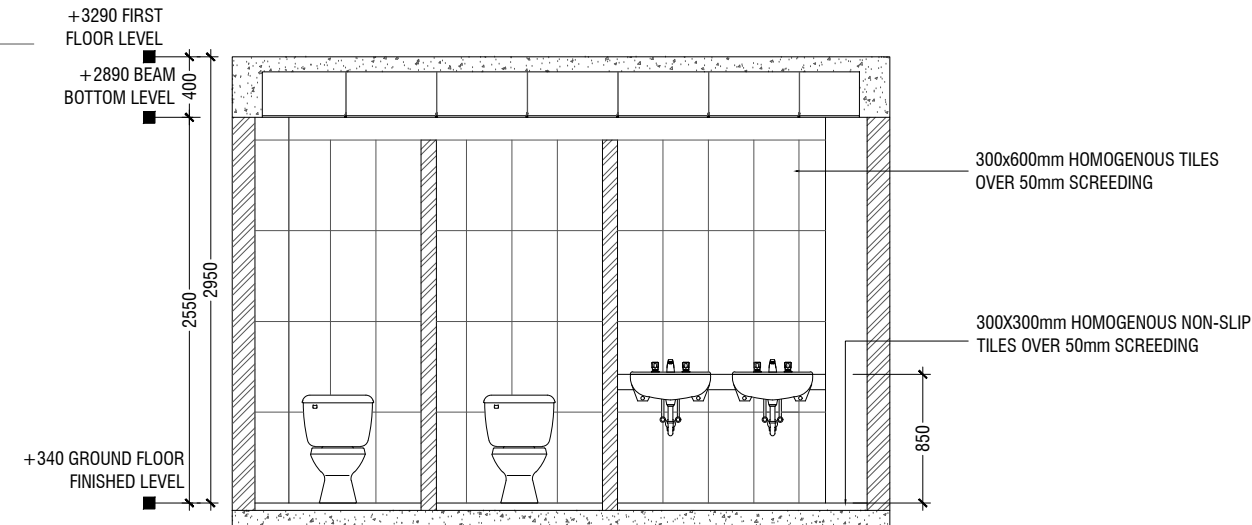
TYPICAL TOILET PLAN

SCALE 1:50



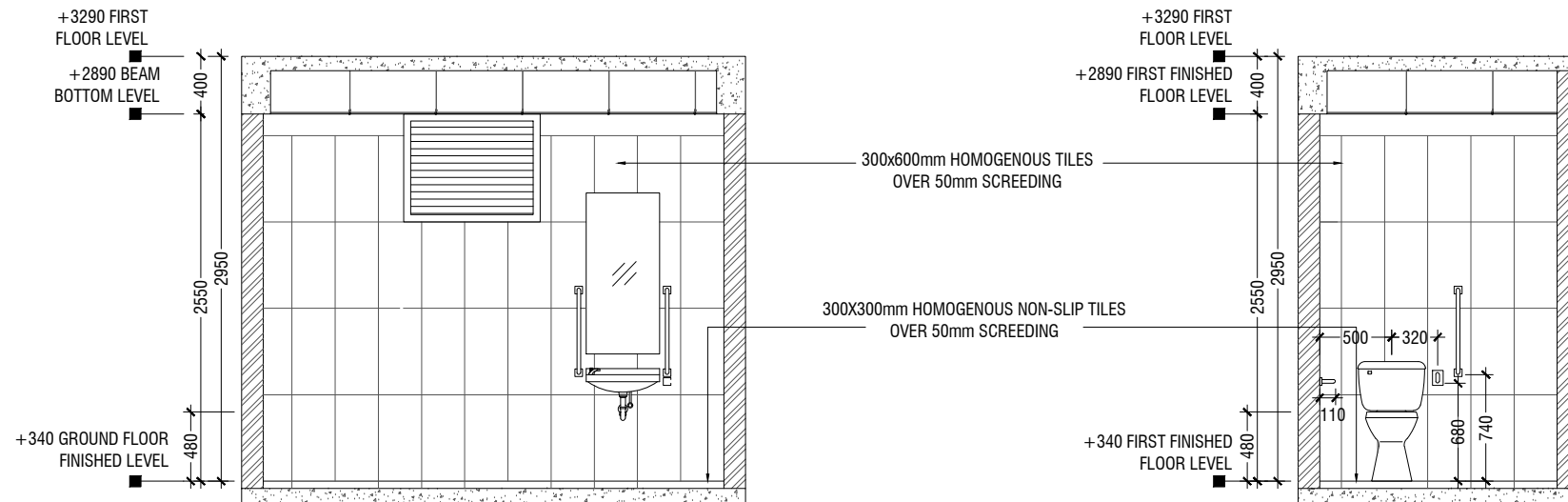
DISABLE TOILET PLAN

SCALE 1:50



SECTION A1-A1

SCALE 1:50



SECTION B1-B1

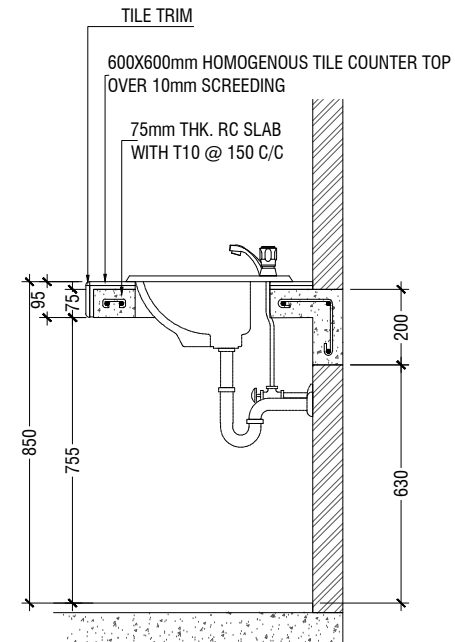
SCALE 1:50

SECTION B2-B2

SCALE 1:50

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



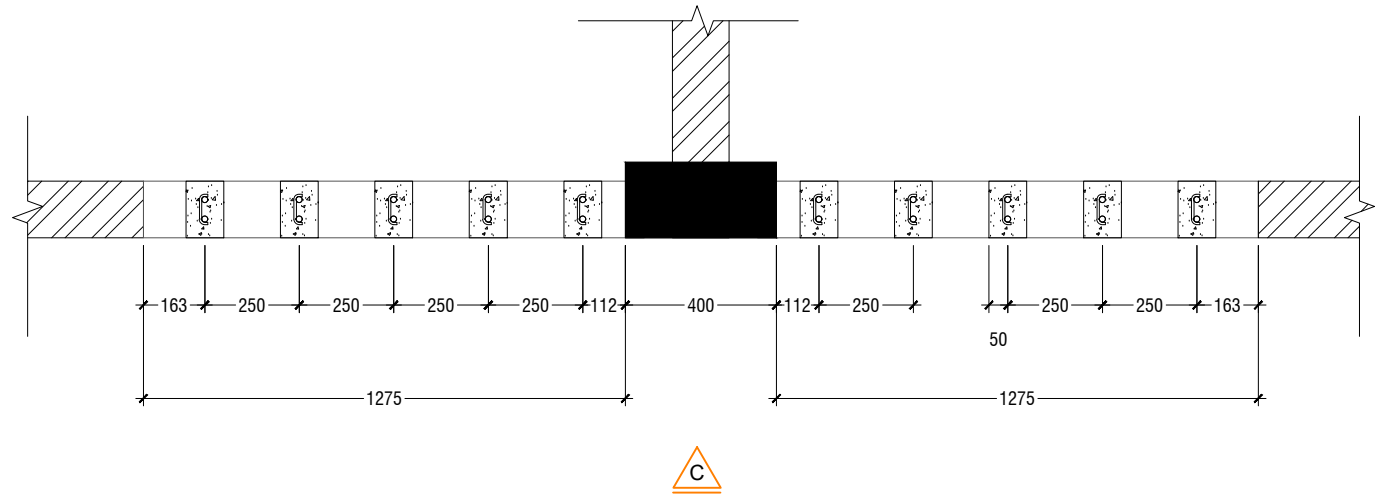
COUNTER TOP DETAILS

SCALE 1:20

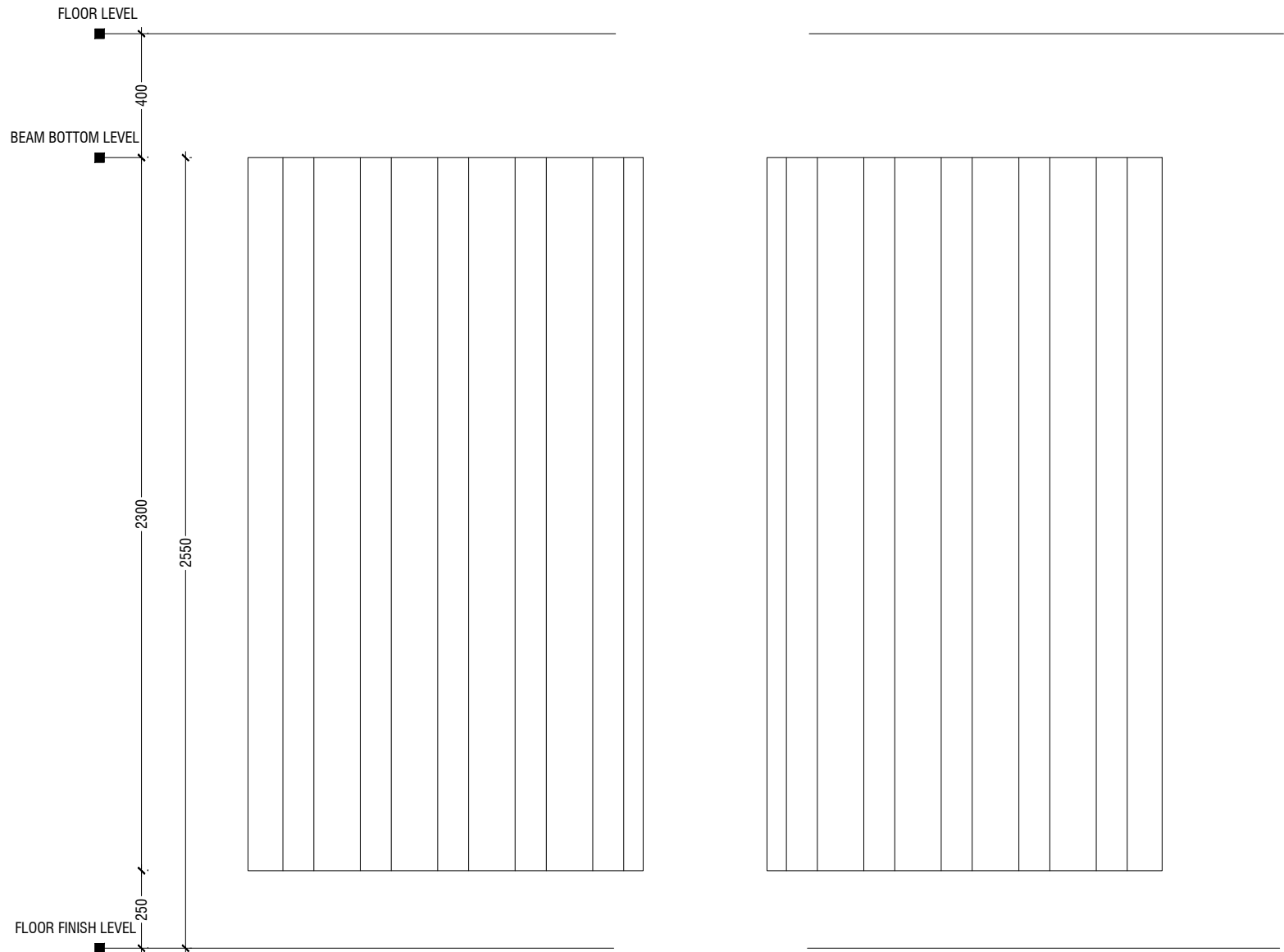
**DETAIL - 3
TOILET DETAILS**

SCALE 1:50

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 21 / 28		

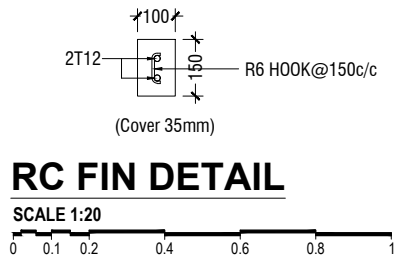


PLAN
SCALE 1:20

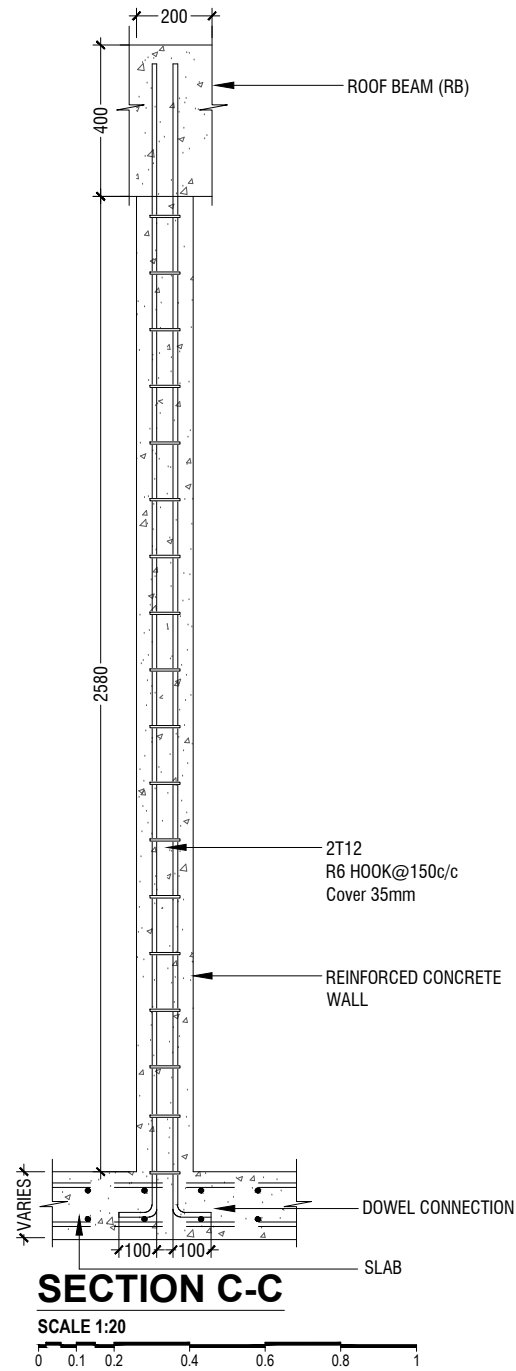


DETAIL - 4
RC FIN DETAILS
SCALE 1:20

ELEVATION C
SCALE 1:20

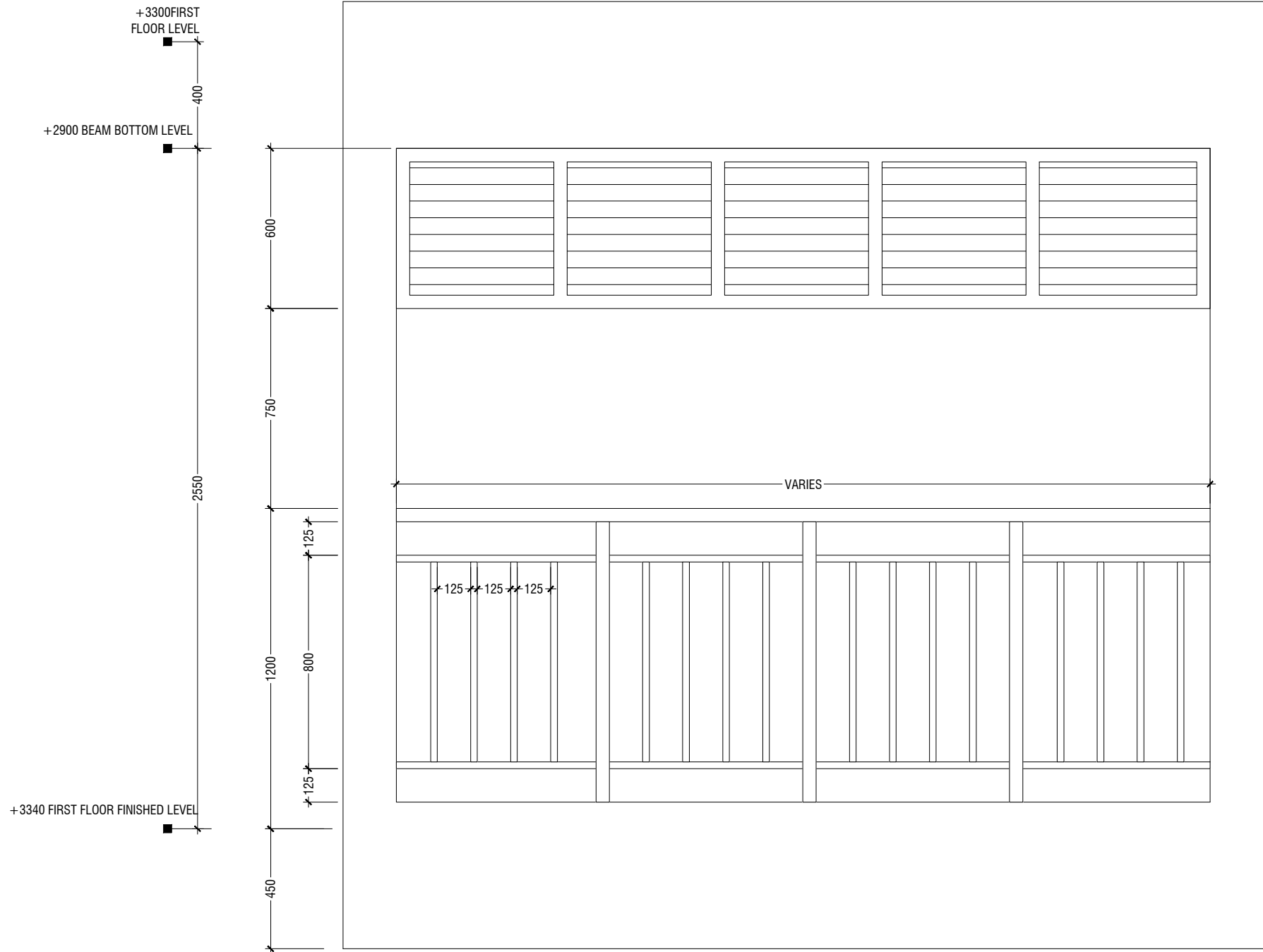


RC FIN DETAIL
SCALE 1:20



SECTION C-C
SCALE 1:20

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 22 / 28		

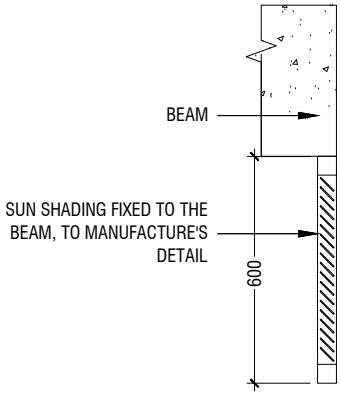


ELEVATION
SCALE 1:20

NOTE:-
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES

DETAIL - 5
RAILING DETAILS

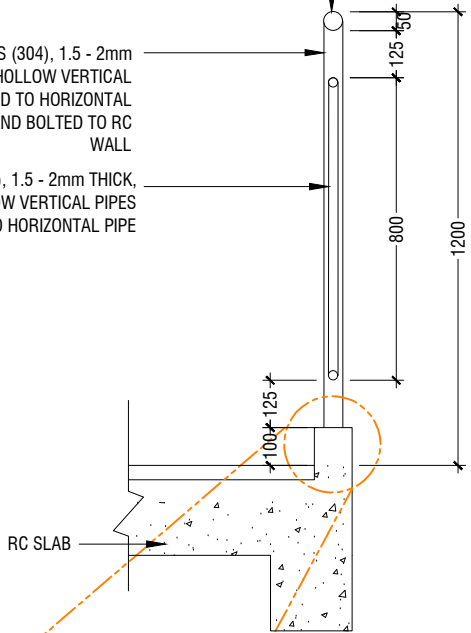
SCALE 1:20



Ø50mm SS (304), 1.5 - 2mm THICK, HOLLOW PIPE FIXED TO WALL AND WELDED TO SS VERTICAL PIPE

Ø50mm SS (304), 1.5 - 2mm THICK, HOLLOW VERTICAL PIPE WELDED TO HORIZONTAL PIPE AND BOLTED TO RC WALL

Ø25mm SS (304), 1.5 - 2mm THICK, HOLLOW VERTICAL PIPES WELDED TO HORIZONTAL PIPE

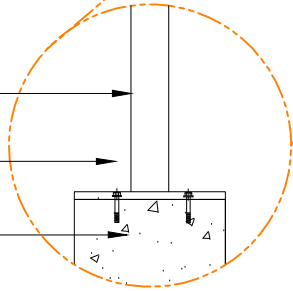


SECTION
SCALE 1:20

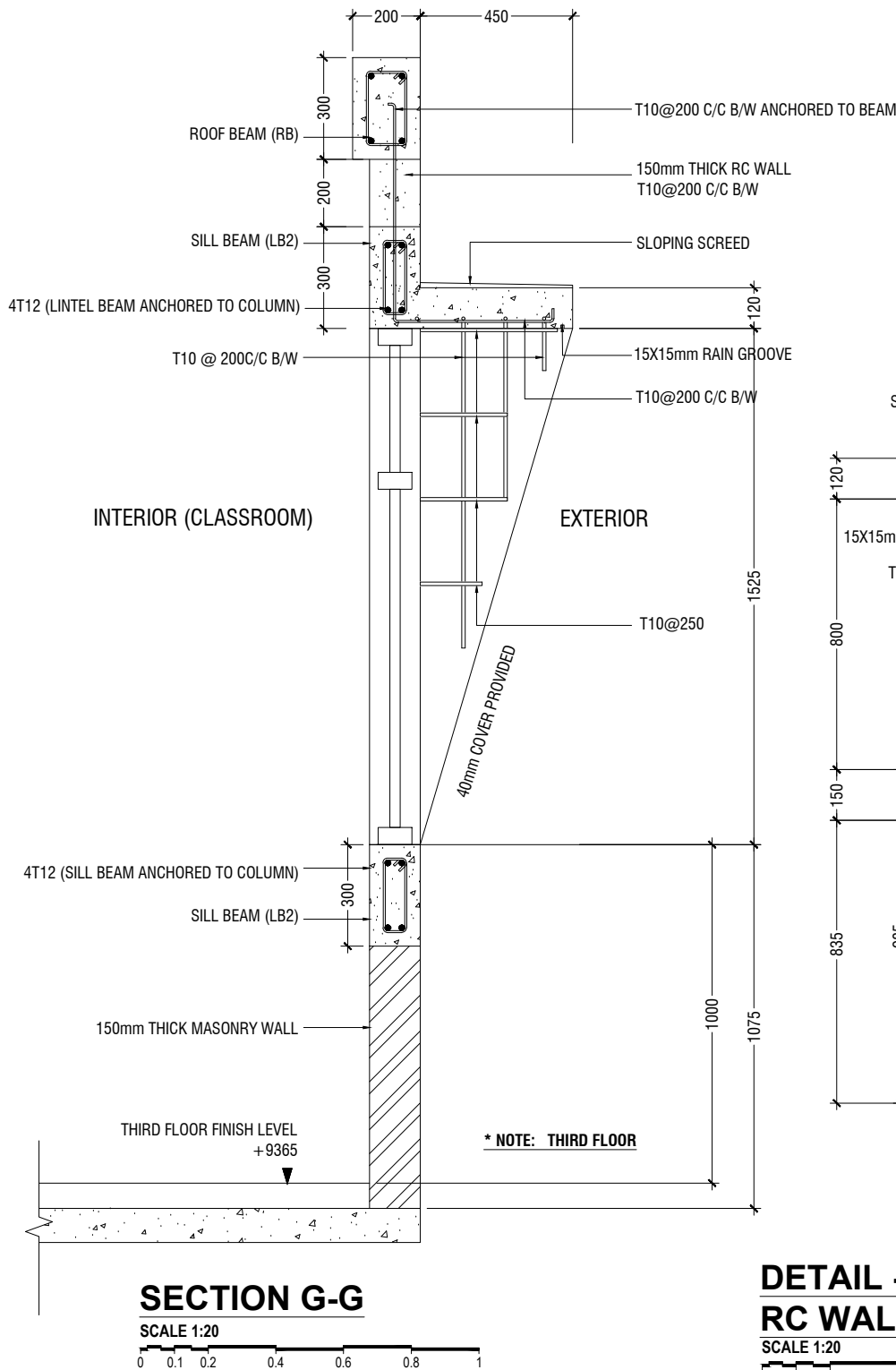
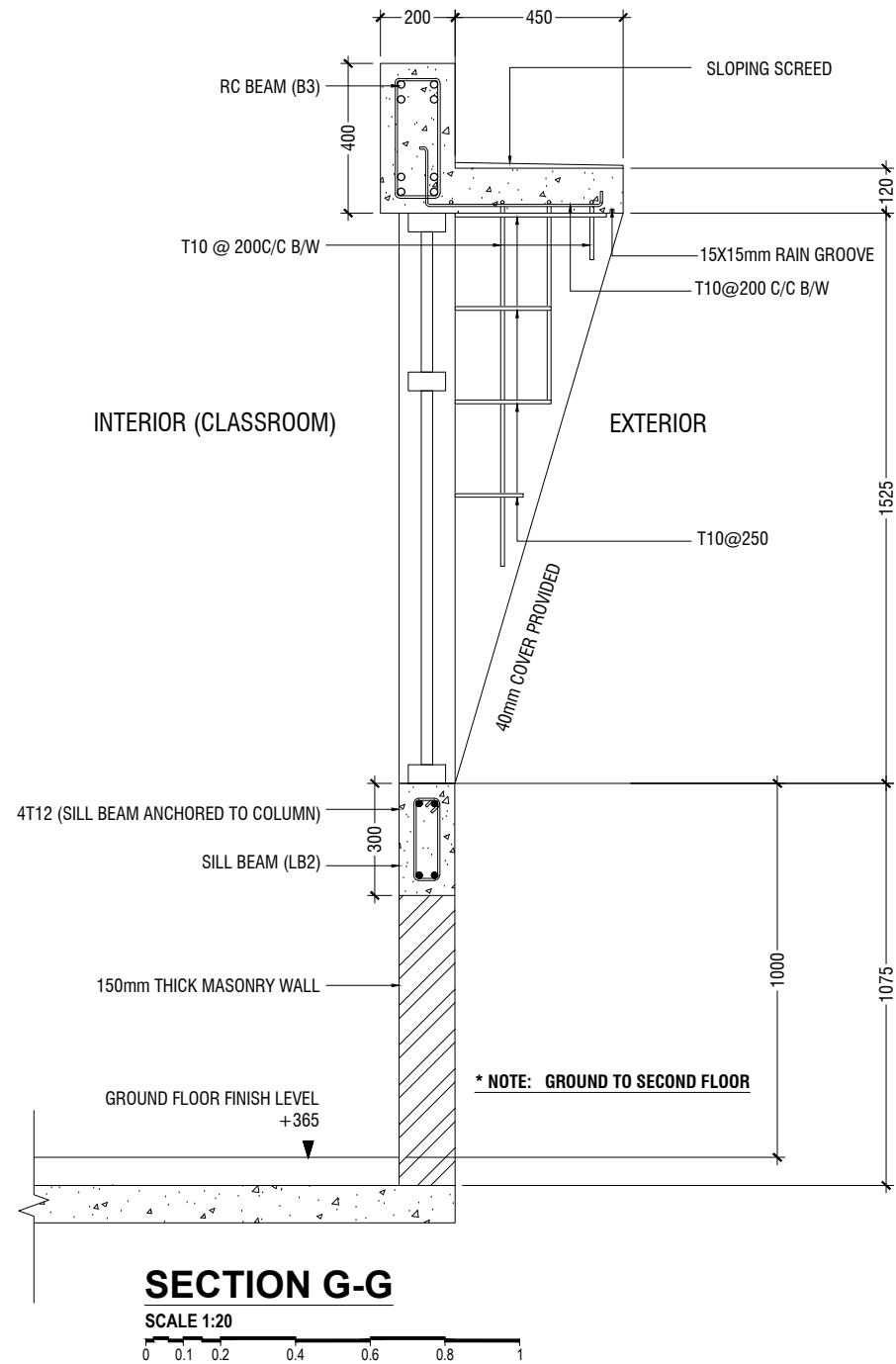
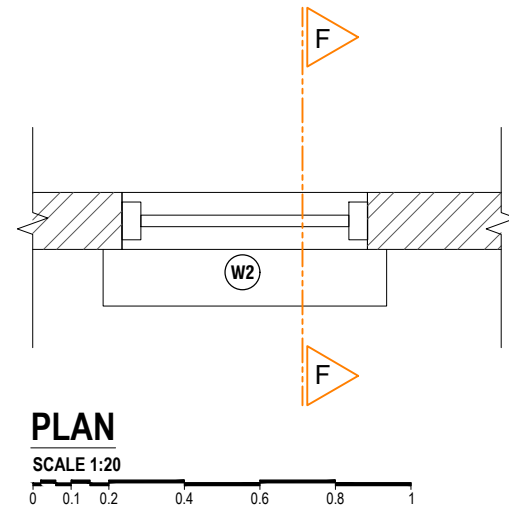
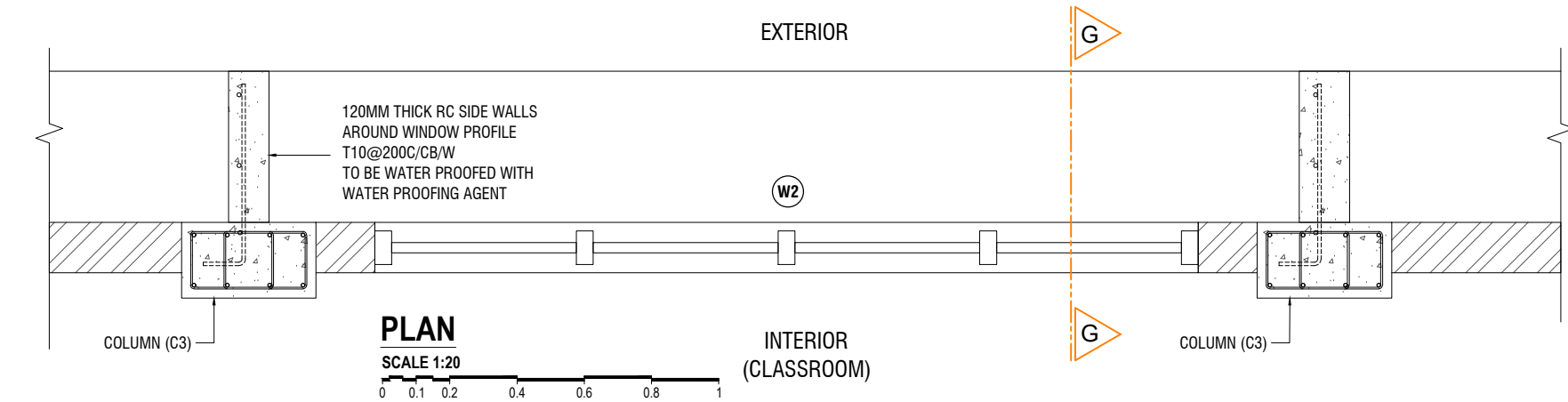
Ø50mm SS (304) HOLLOW PIPE

4 NOS. 12mm ANCHOR BOLTS FIXED TO THE RC WALL WITH SS PLATE AND COVERED BY PLASTERING

100mm THICK RC CONCRETE WALL

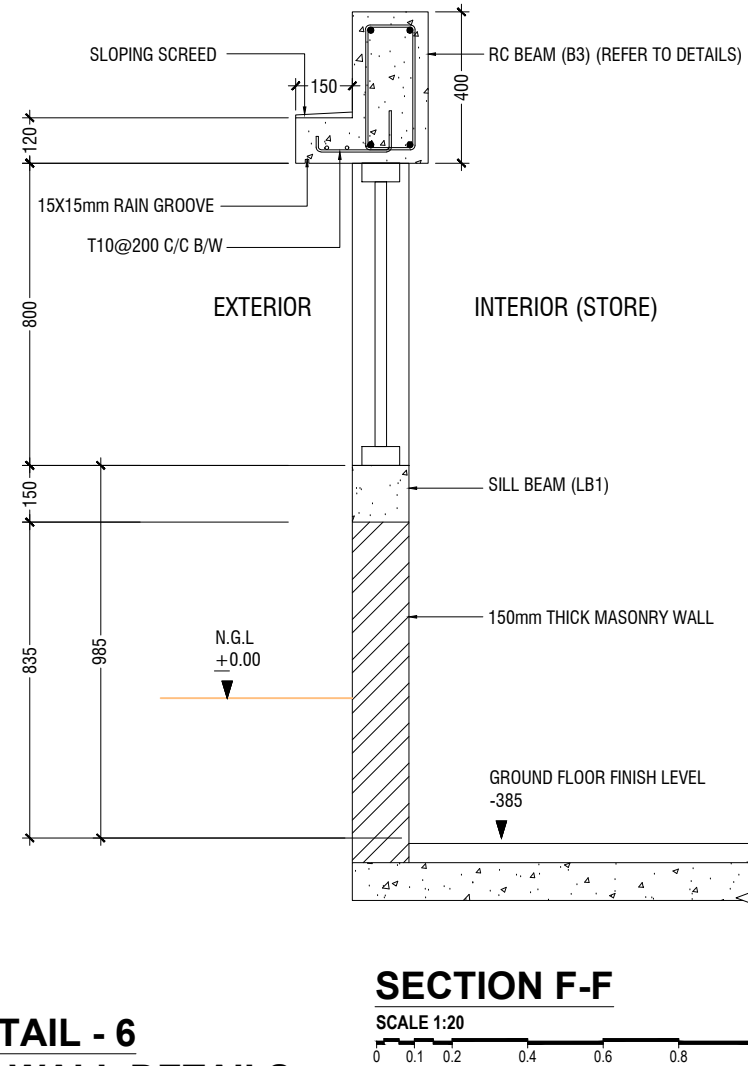


Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 23 / 28		

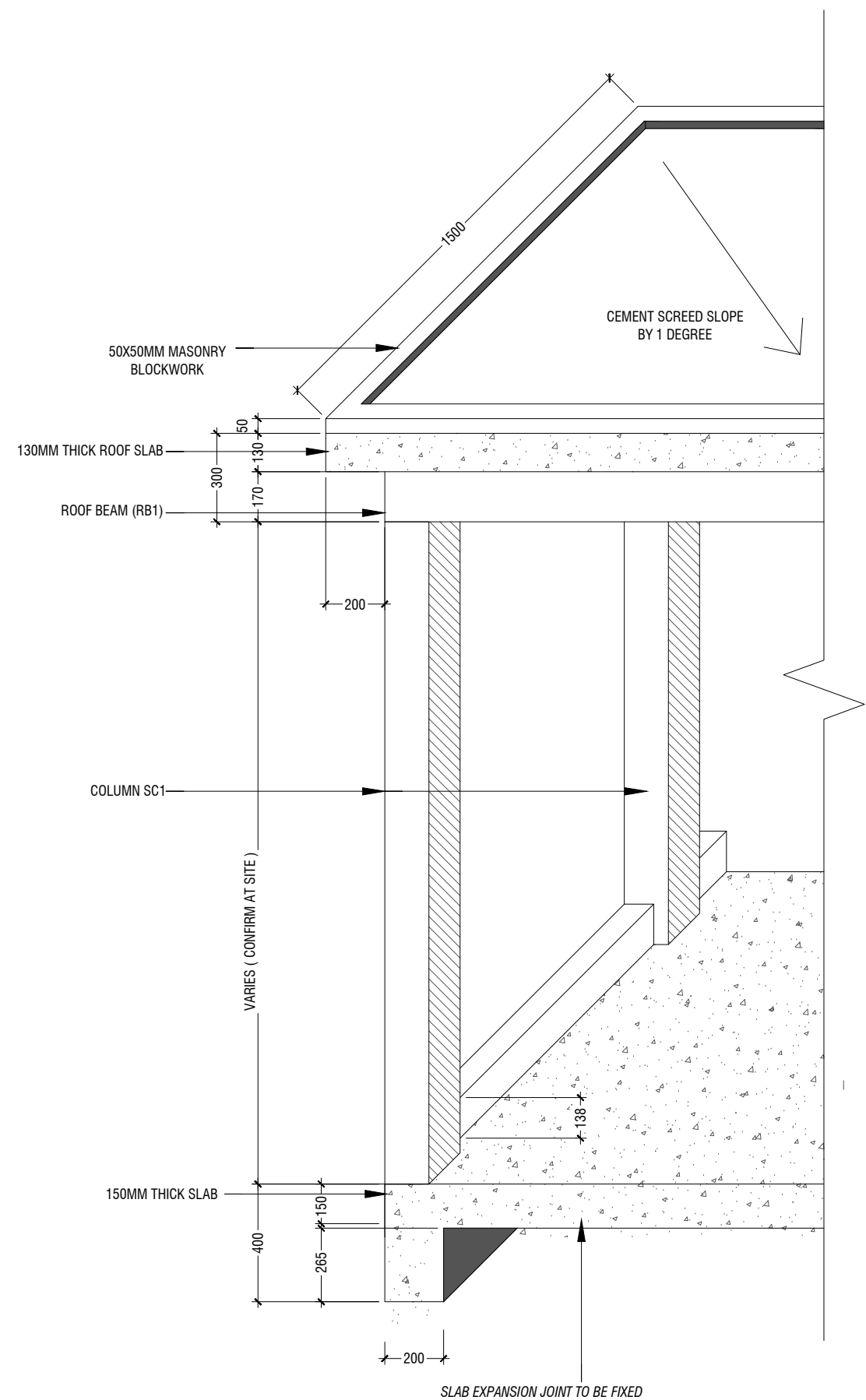


DETAIL - 6
RC WALL DETAILS
SCALE 1:20

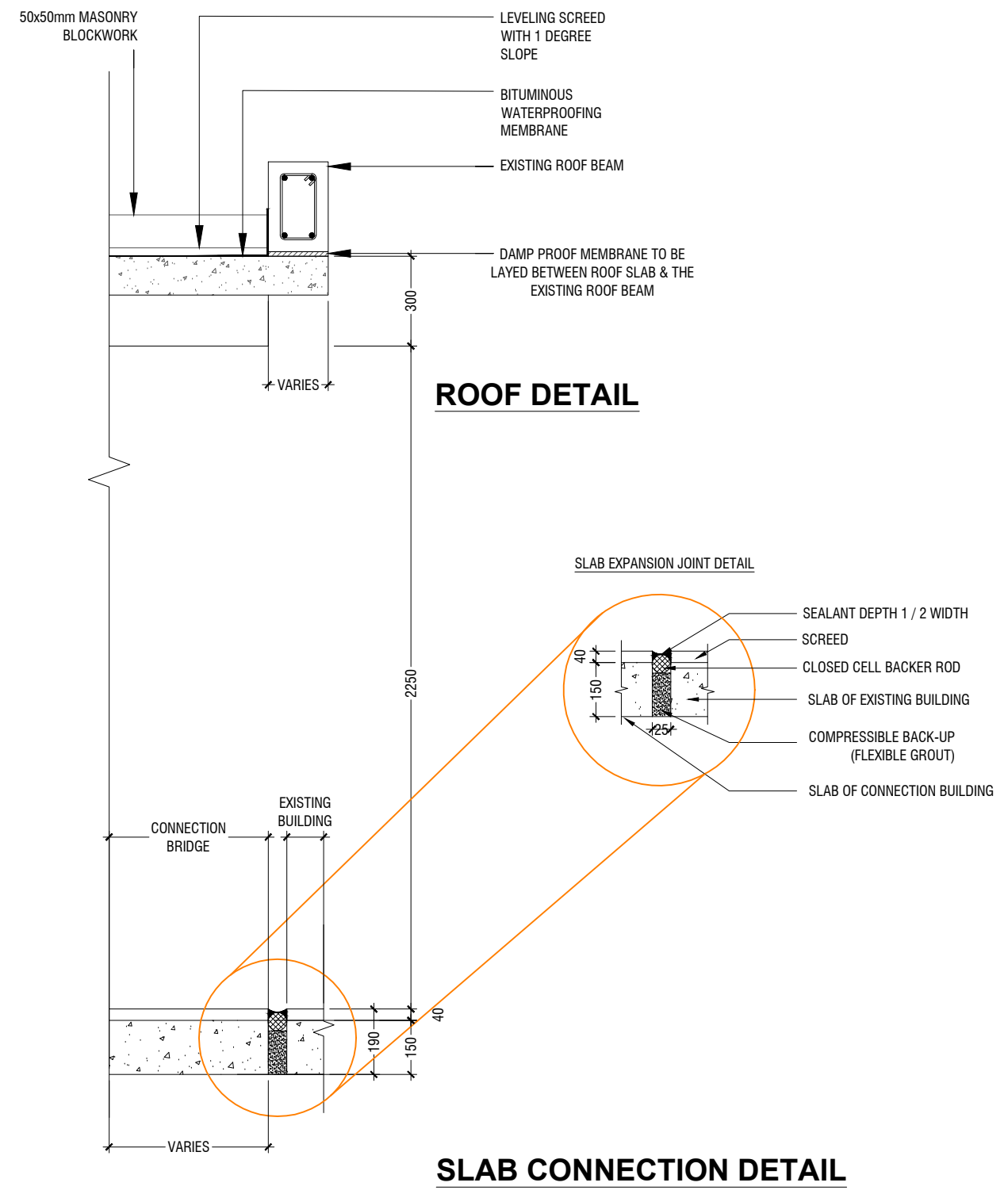
0 0.1 0.2 0.4 0.6 0.8 1



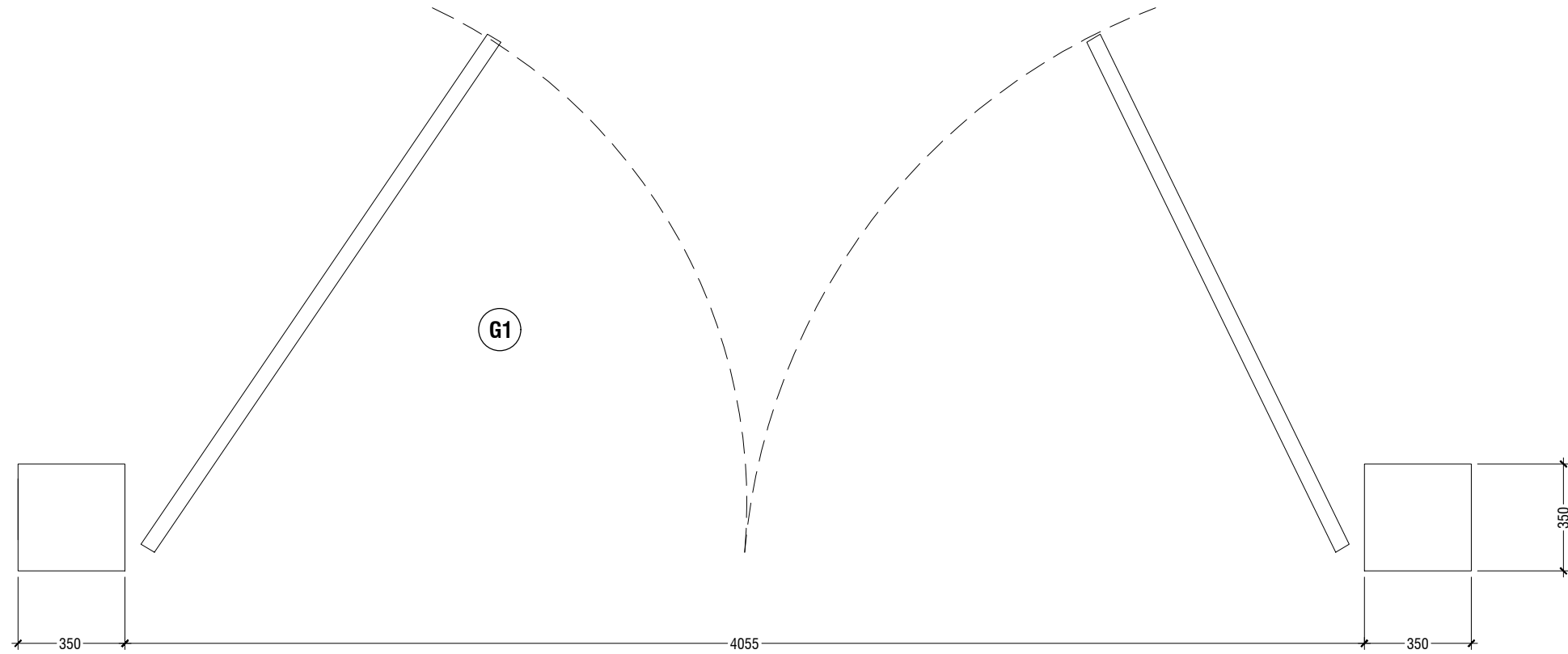
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 24 / 28		



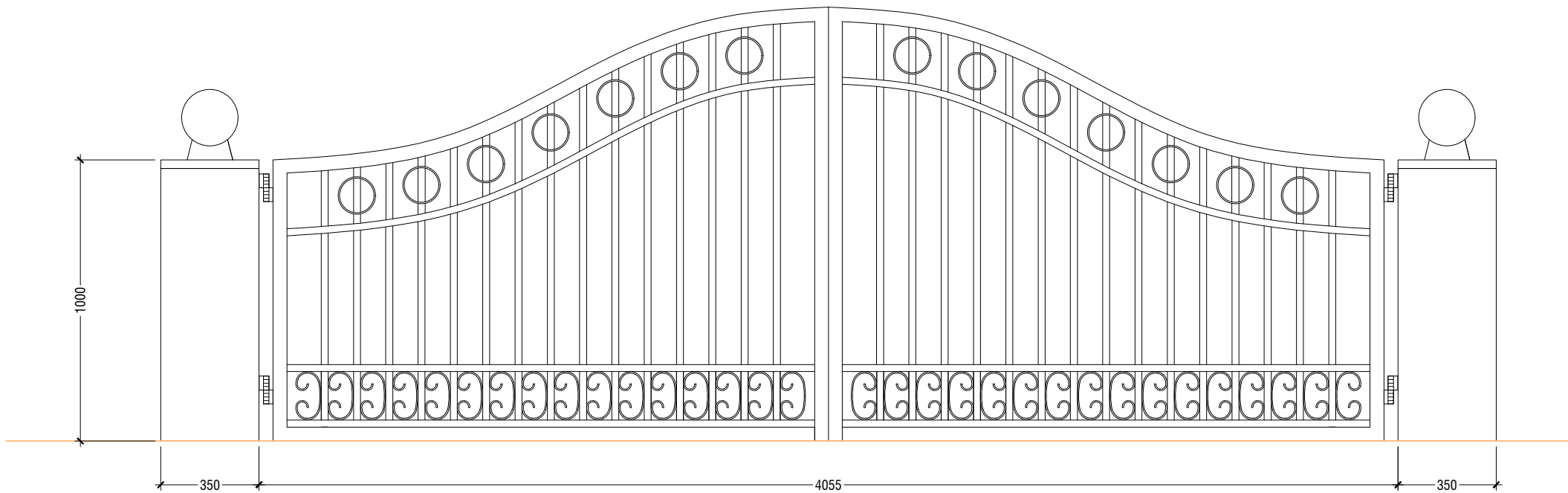
DETAIL - 7
CONNECTION BRIDGE DETAILS
 SCALE 1:20



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 25 / 28		

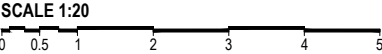


PLAN

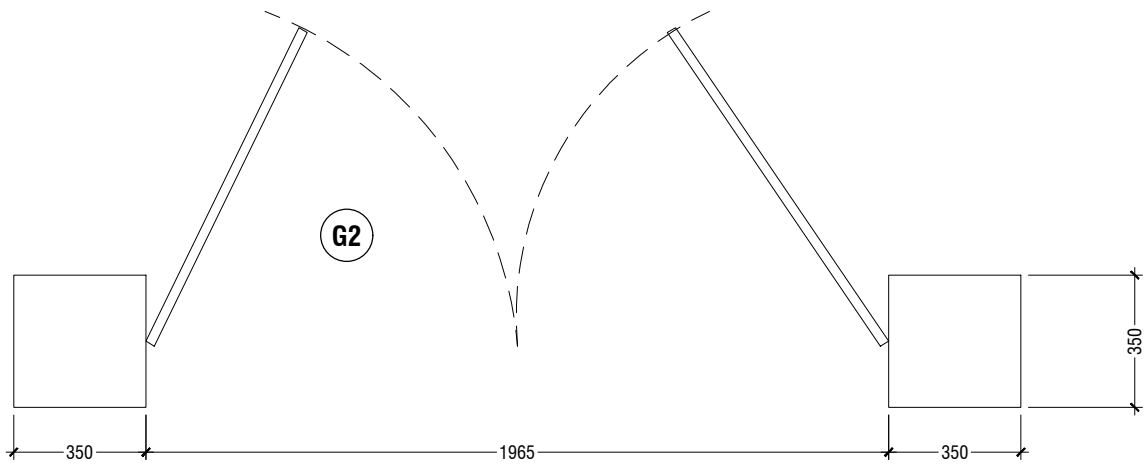


NOTE: LOGO TO BE PLACED AT THE CENTER OF THE GATE

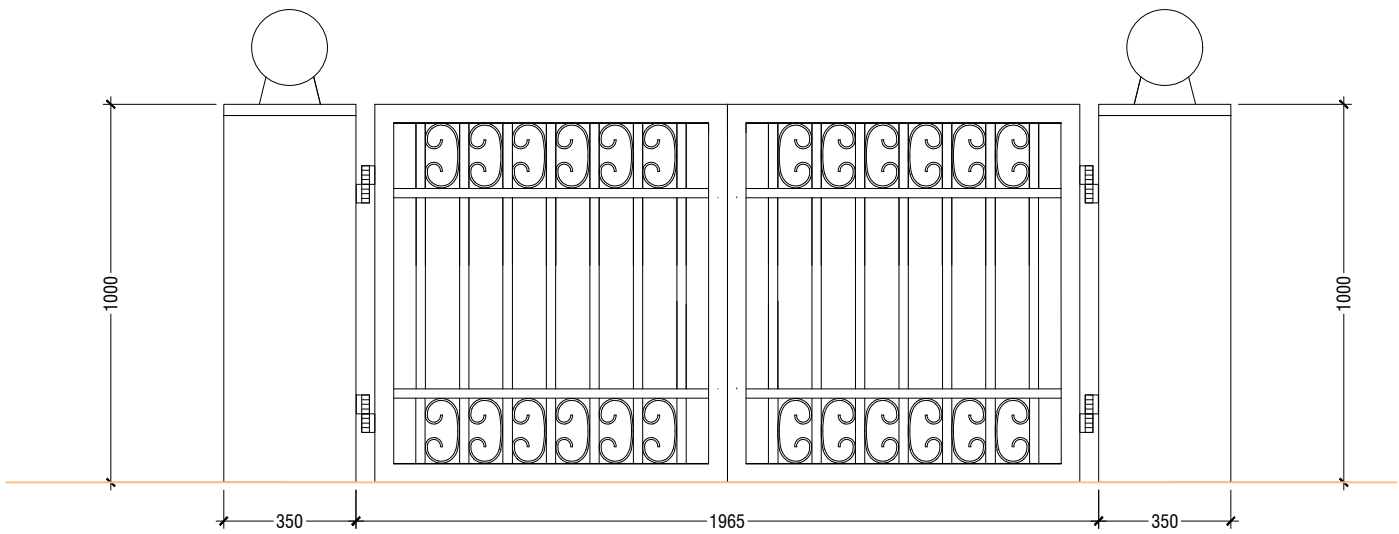
ELEVATION
GATE 1 DETAILS



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 26 / 28		

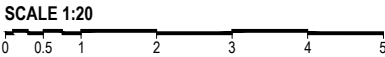


PLAN

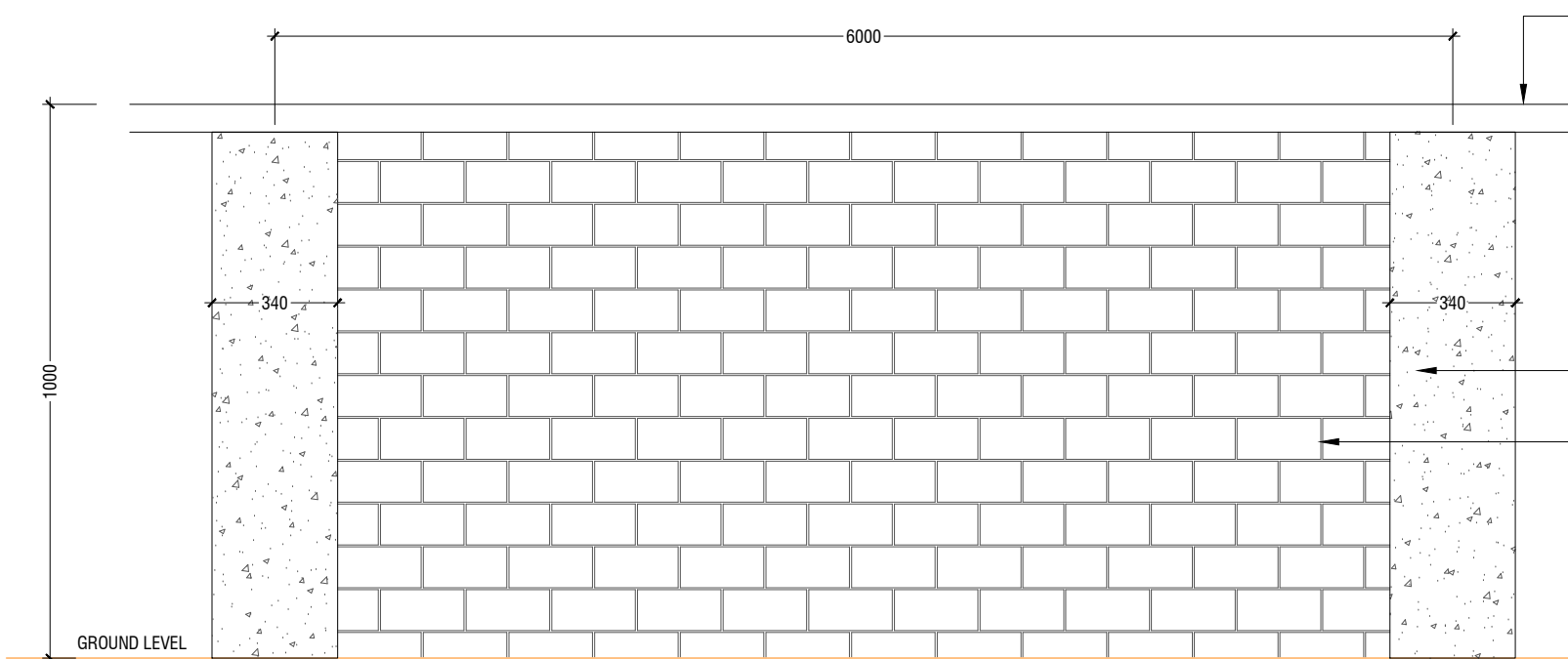


ELEVATION

GATE 2 DETAILS

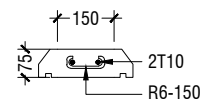


Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : A 27 / 28		



BOUNDARY WALL ELEVATION

SCALE 1:20

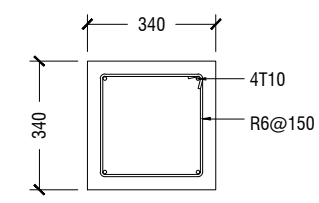


COLUMN SC @3000mm SPACING

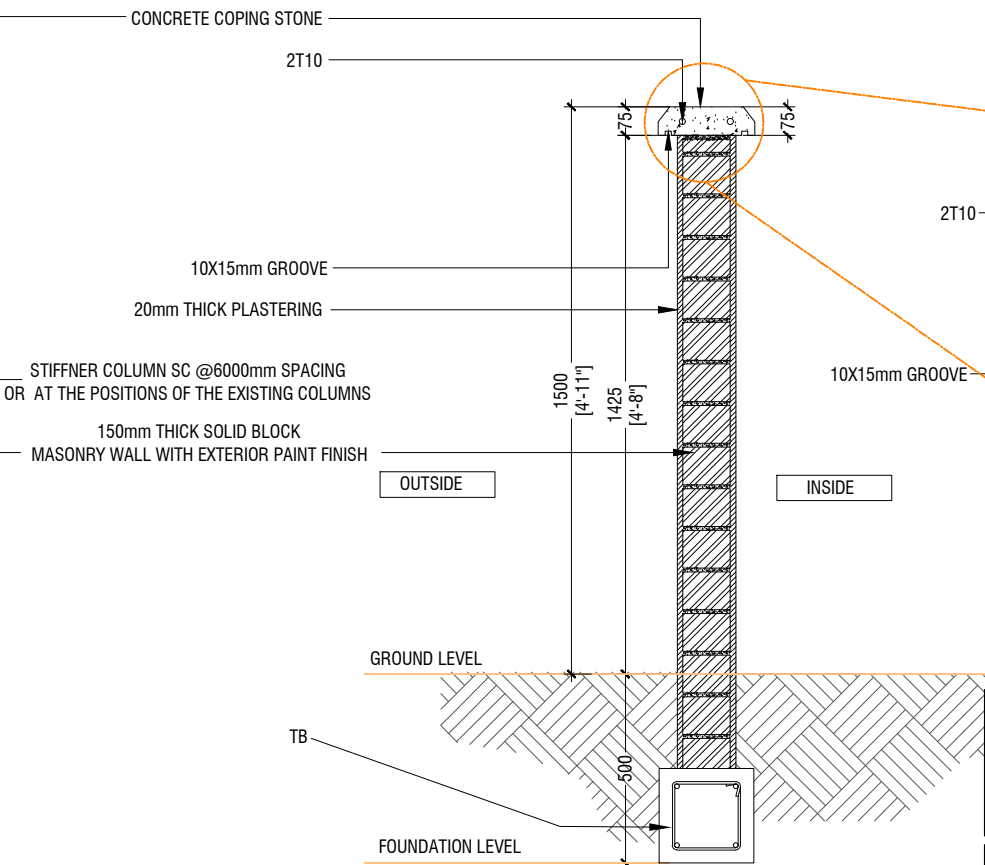
CB - CAPPING BEAM

DETAIL - 7
BOUNDARY WALL DETAILS

SCALE 1:20



STIFFENER COLUMN

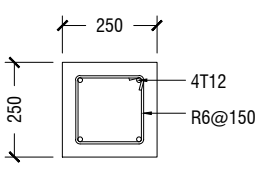


BOUNDARY WALL SECTION DETAIL

SCALE 1:20



NOTE
- REFER TO SITE PLAN FOR LOCATION AND DIMENSION OF BOUNDARY WALL

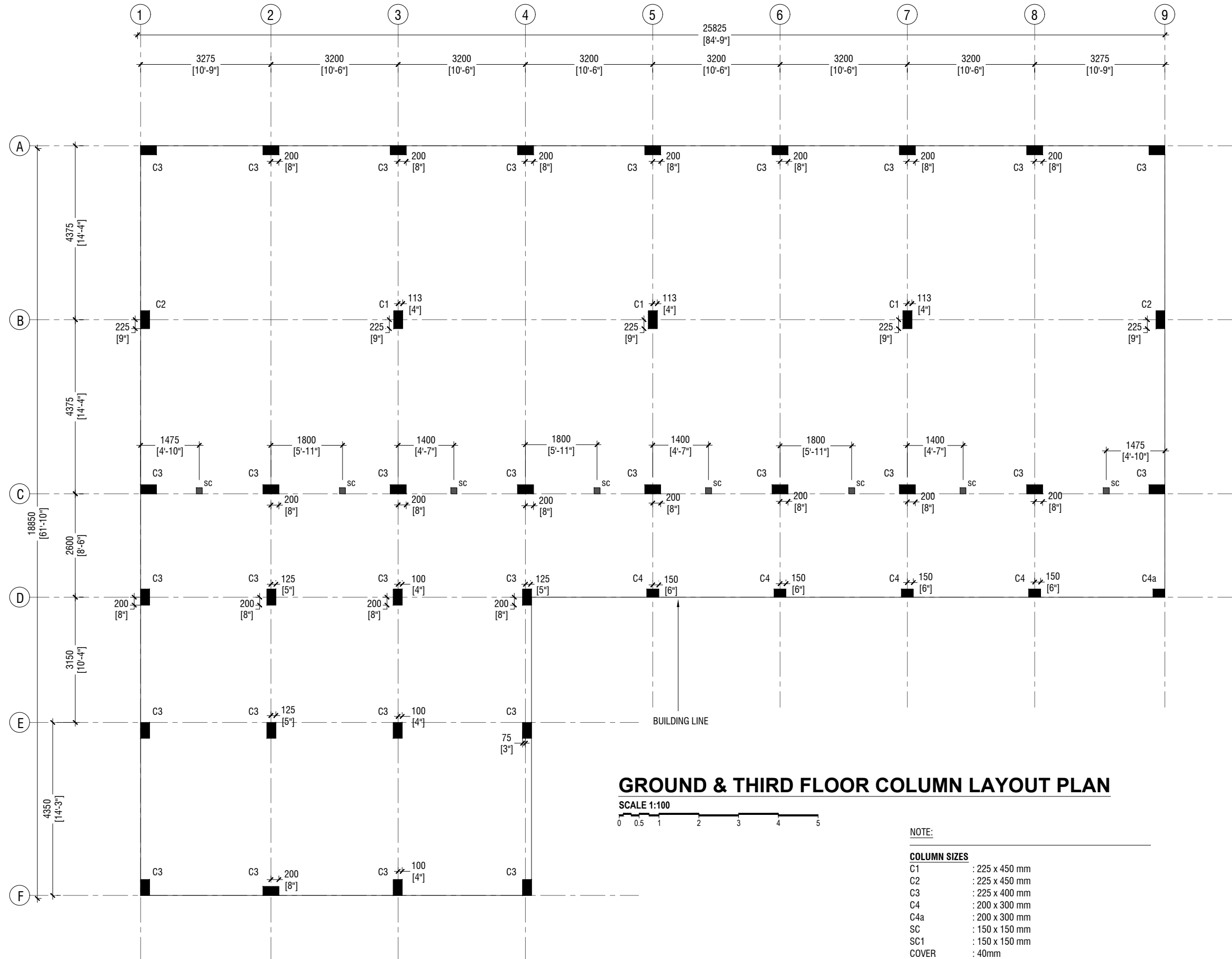


TB (BOUNDARY WALL)

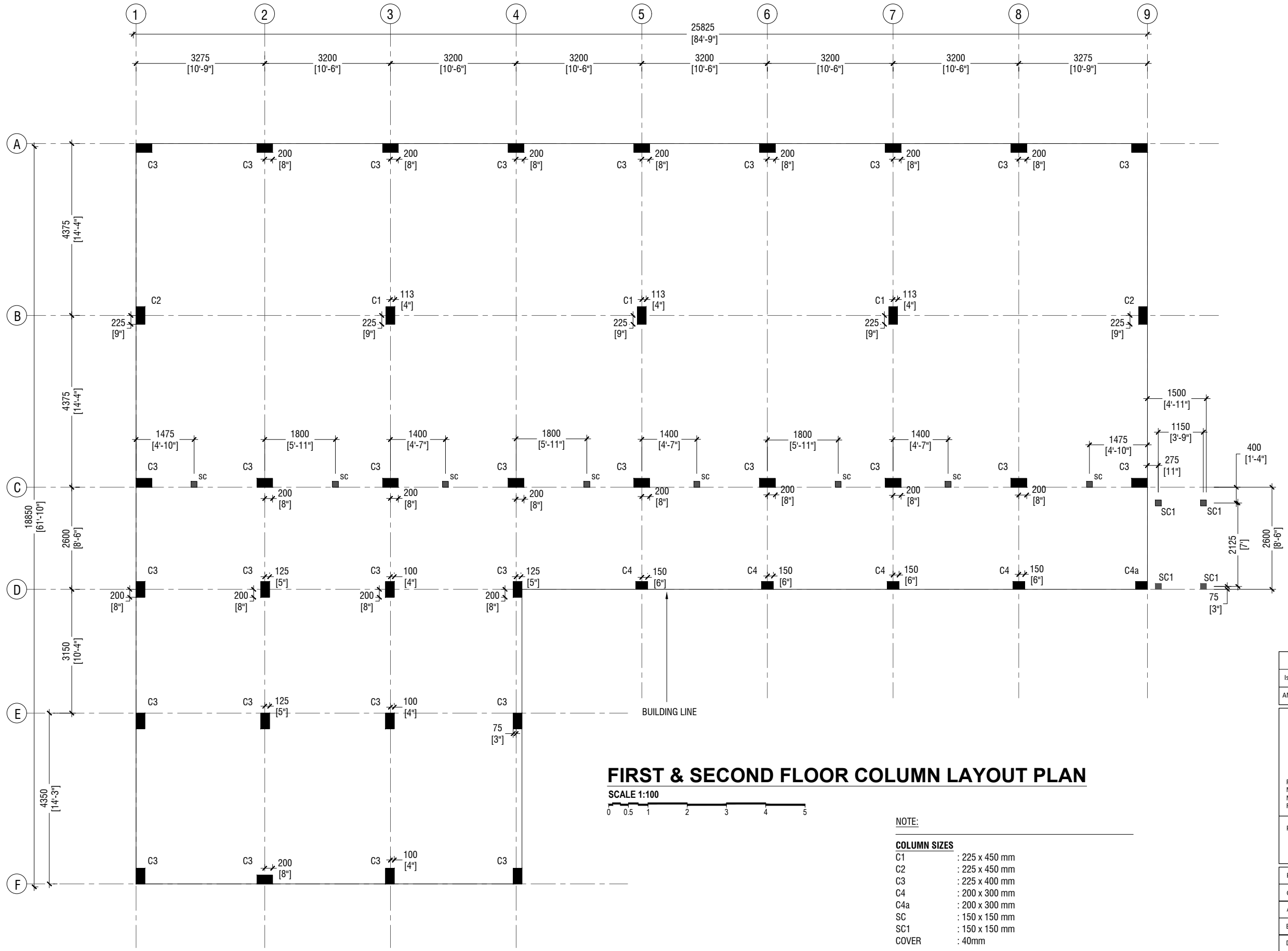
Issue	Date	Description
AMMENDMENTS.		

PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		

PROJECT REFERENCE
CLIENT MINISTRY OF EDUCATION
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
SCALE : AS GIVEN
DATE : 20.09.2021
DWG NO : A 28 / 28



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 01 / 21		



FIRST & SECOND FLOOR COLUMN LAYOUT PLAN

SCALE 1:100

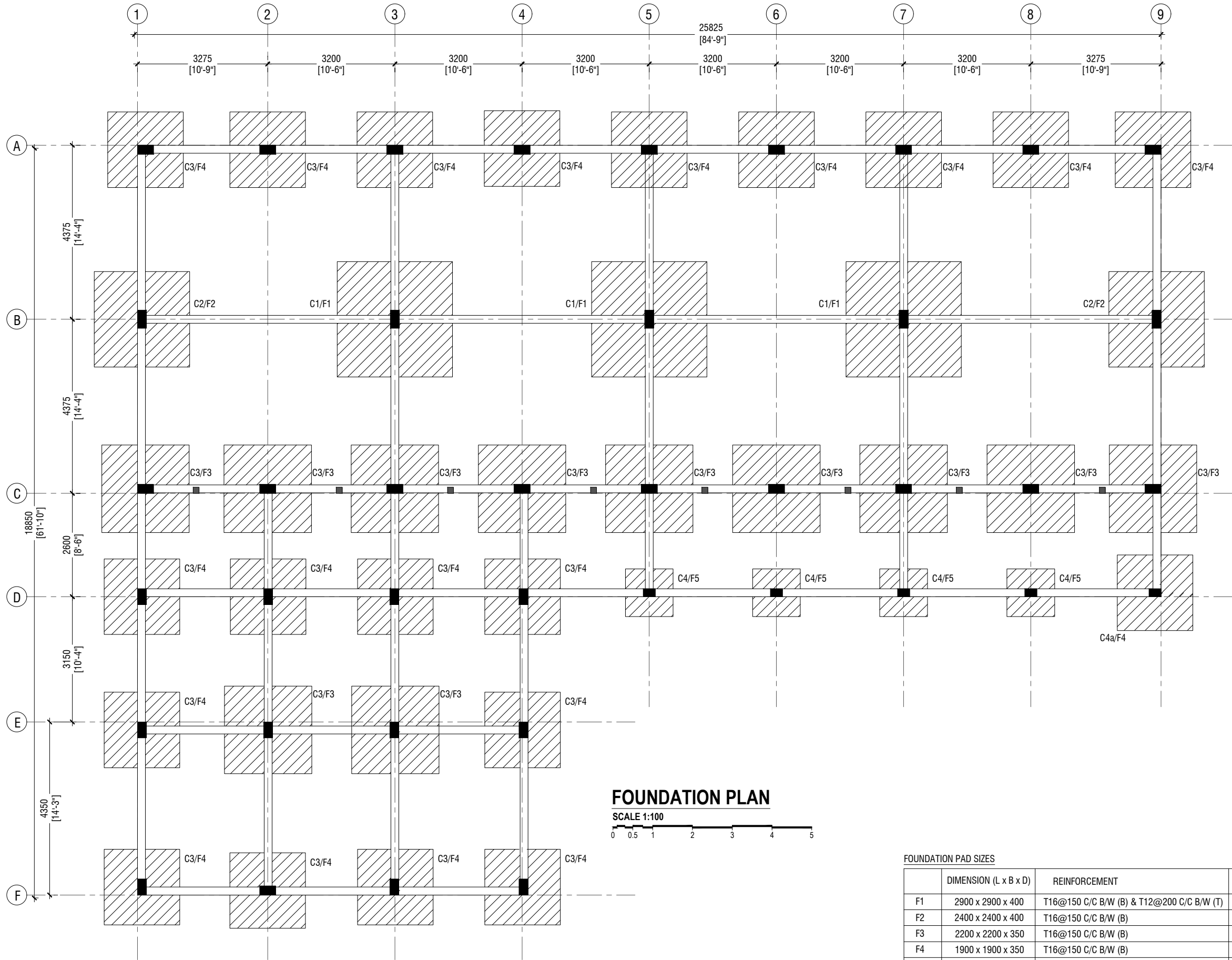


NOTE:

COLUMN SIZES

- C1 : 225 x 450 mm
- C2 : 225 x 450 mm
- C3 : 225 x 400 mm
- C4 : 200 x 300 mm
- C4a : 200 x 300 mm
- SC : 150 x 150 mm
- SC1 : 150 x 150 mm
- COVER : 40mm

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT: MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 02 / 21		



FOUNDATION PLAN
SCALE 1:100

FOUNDATION PAD SIZES			
	DIMENSION (L x B x D)	REINFORCEMENT	FOUNDATION DEPTH
F1	2900 x 2900 x 400	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)	1250mm
F2	2400 x 2400 x 400	T16@150 C/C B/W (B)	1250mm
F3	2200 x 2200 x 350	T16@150 C/C B/W (B)	1200mm
F4	1900 x 1900 x 350	T16@150 C/C B/W (B)	1200mm
F5	1200 x 1200 x 350	T12@150 C/C B/W (B)	1200mm

NOTE:

COLUMN SIZES	
C1	: 225 x 450 mm
C2	: 225 x 450 mm
C3	: 225 x 400 mm
C4	: 200 x 300 mm
C4a	: 200 x 300 mm
SC	: 150 x 150 mm
SC1	: 150 x 150 mm
COVER	: 40mm

NOTE:

CONCRETE COVER	
COLUMN	: 40mm
SLAB	: 30mm
BEAM	: 35mm
FOOTING	: 50mm
TIE BEAM	: 50mm

LAP LENGTH FOR BARS	
25MM	: 1125 mm
20MM	: 900 mm
16MM	: 720 mm
12MM	: 550 mm
10MM	: 450 mm

CONCRETE GRADE = M25

SAFE BEARING CAPACITY = 150KPa

HOOK LENGTH AND OTHER DETAILS ARE PROVIDED IN THE GENERAL NOTES

FOUNDATION DEPTH : REFER FOUNDATION TABLE

ALL FOOTINGS ARE TO BE LAID ON TOP OF 50mm THICK LEAN CONCRETE
APPLY WATER PROOFING TO SUBSTRUCTURE (BELOW GROUND ELEMENTS)

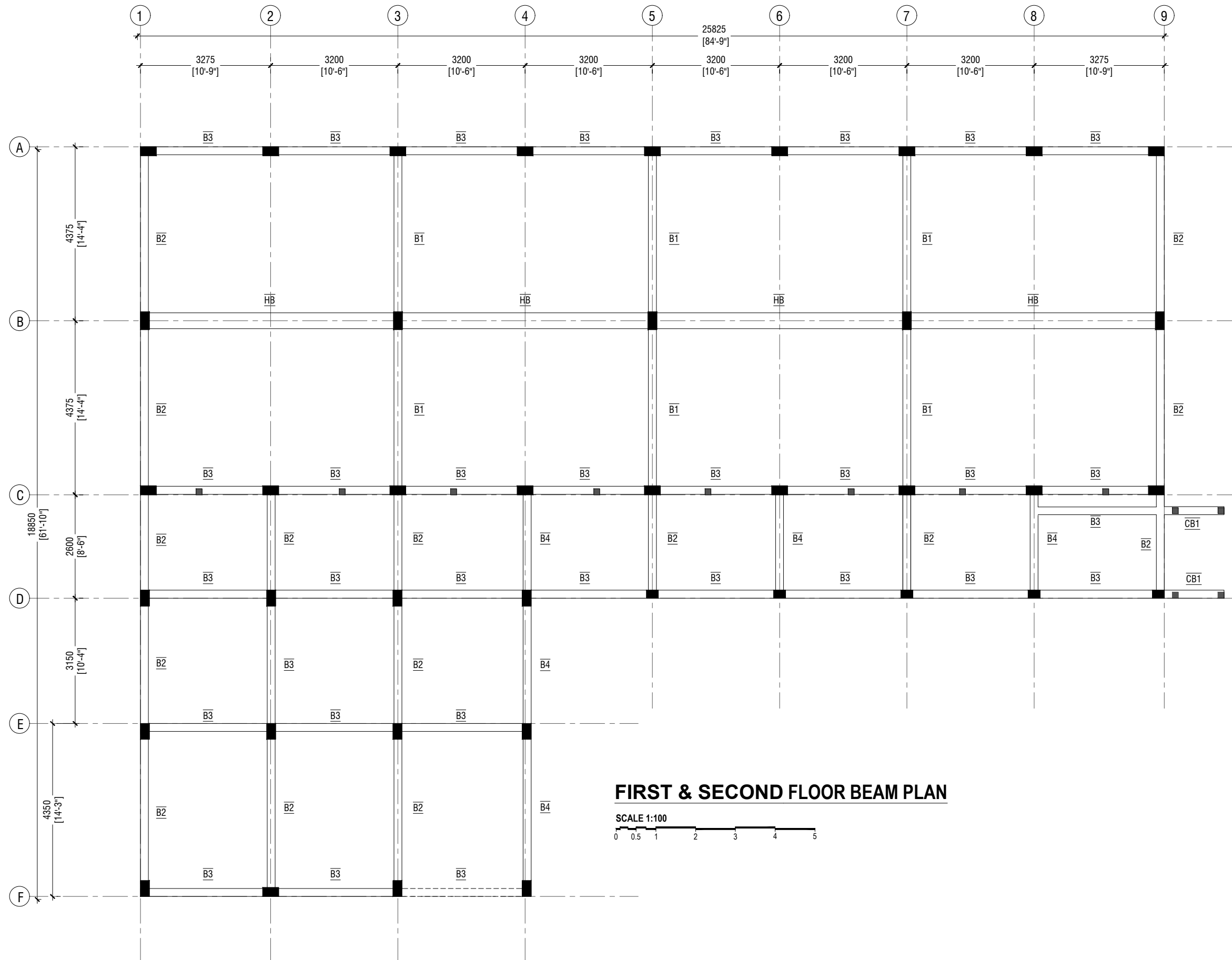
TIE BEAM SIZES (ALL TIE BEAMS ARE TB)	
TB	: 200 x 450 mm
COVER	: 50mm

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

-150mm THK. SOLID MASONRY BLOCK WALL

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

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 03 / 21		



FIRST & SECOND FLOOR BEAM PLAN

SCALE 1:100

NOTE:

COLUMN SIZES

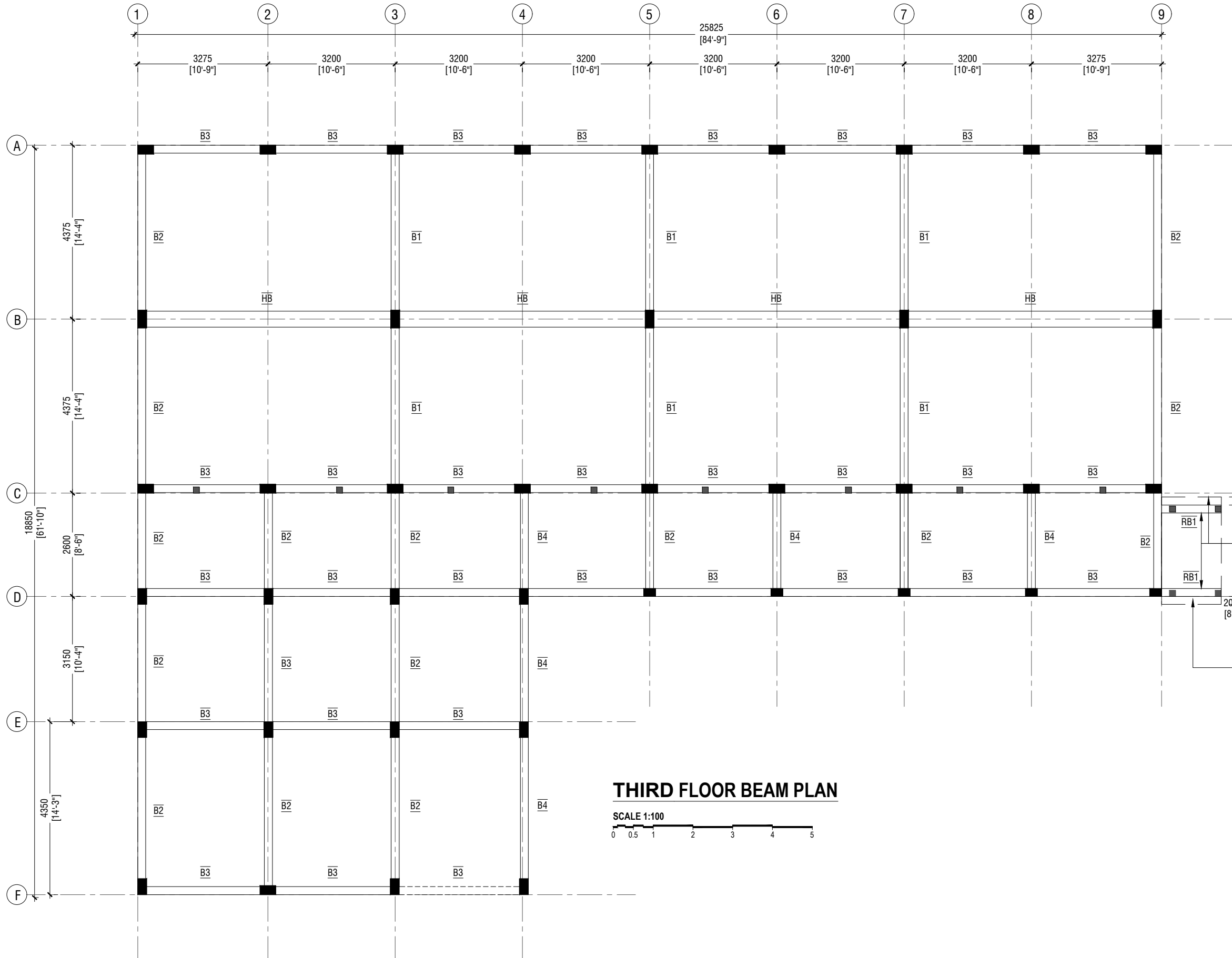
- C1 : 225 x 450 mm
- C2 : 225 x 450 mm
- C3 : 225 x 400 mm
- C4 : 200 x 300 mm
- C4a : 200 x 300 mm
- SC : 150 x 150 mm
- SC1 : 150 x 150 mm
- COVER : 40mm

BEAM SIZES

- B1 : 200x475 mm
- B2 : 200x400 mm
- B3 : 200x400 mm
- B4 : 200x400 mm
- CB1 : 200x400 mm
- HB : 400x180 mm
- RB1 : 200x300 mm
- COVER : 35mm

CONCRETE GRADE = M35

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 04 / 21		



NOTE:

COLUMN SIZES

- C1 : 225 x 450 mm
- C2 : 225 x 450 mm
- C3 : 225 x 400 mm
- C4 : 200 x 300 mm
- C4a : 200 x 300 mm
- SC : 150 x 150 mm
- SC1 : 150 x 150 mm
- COVER : 40mm

BEAM SIZES

- B1 : 200x475 mm
- B2 : 200x400 mm
- B3 : 200x400 mm
- B4 : 200x400 mm
- CB1 : 200x400 mm
- HB : 400x180 mm
- RB1 : 200x300 mm
- COVER : 35mm

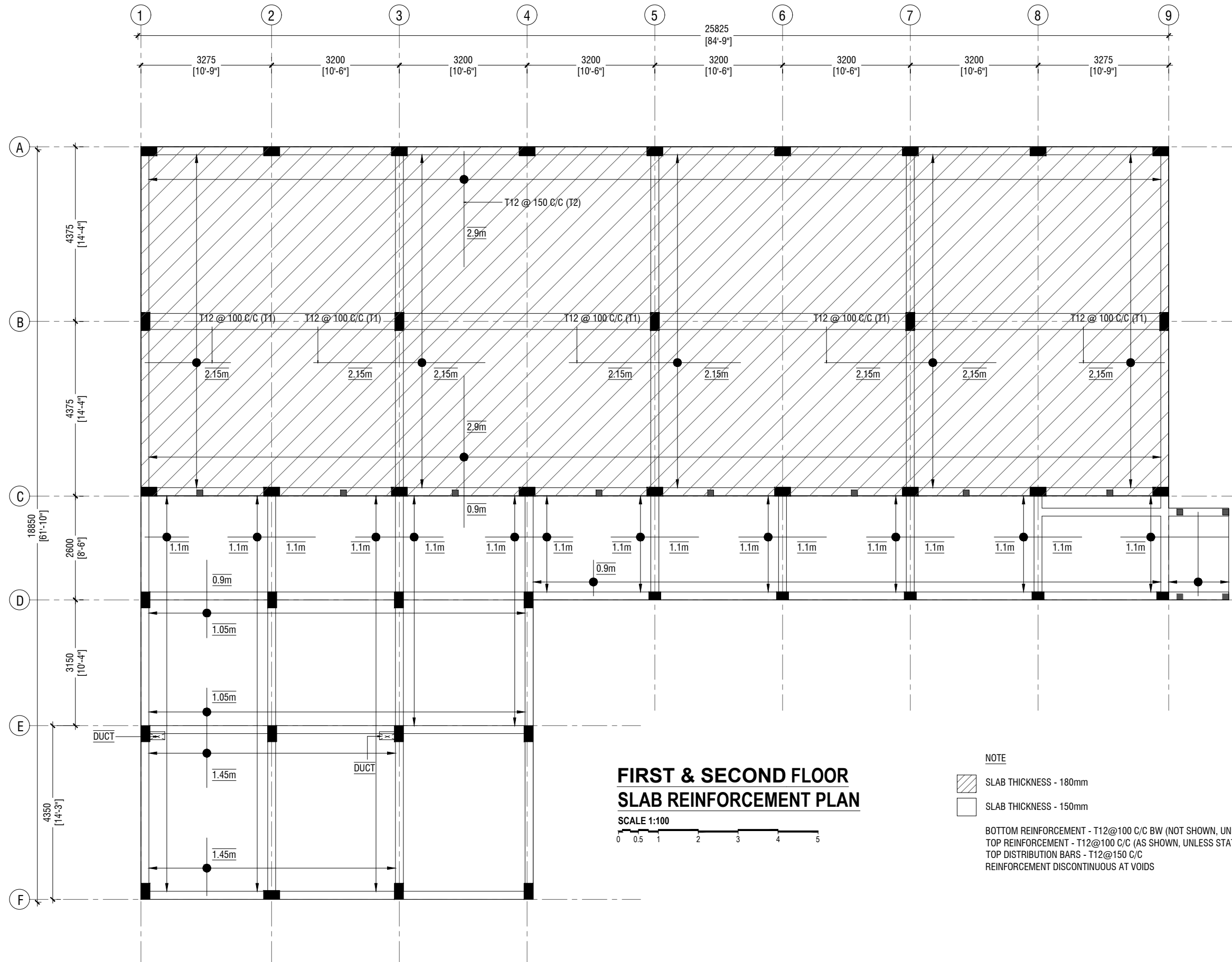
CONCRETE GRADE = M35

THIRD FLOOR BEAM PLAN

SCALE 1:100

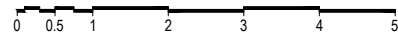


Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 05 / 21		



FIRST & SECOND FLOOR SLAB REINFORCEMENT PLAN

SCALE 1:100

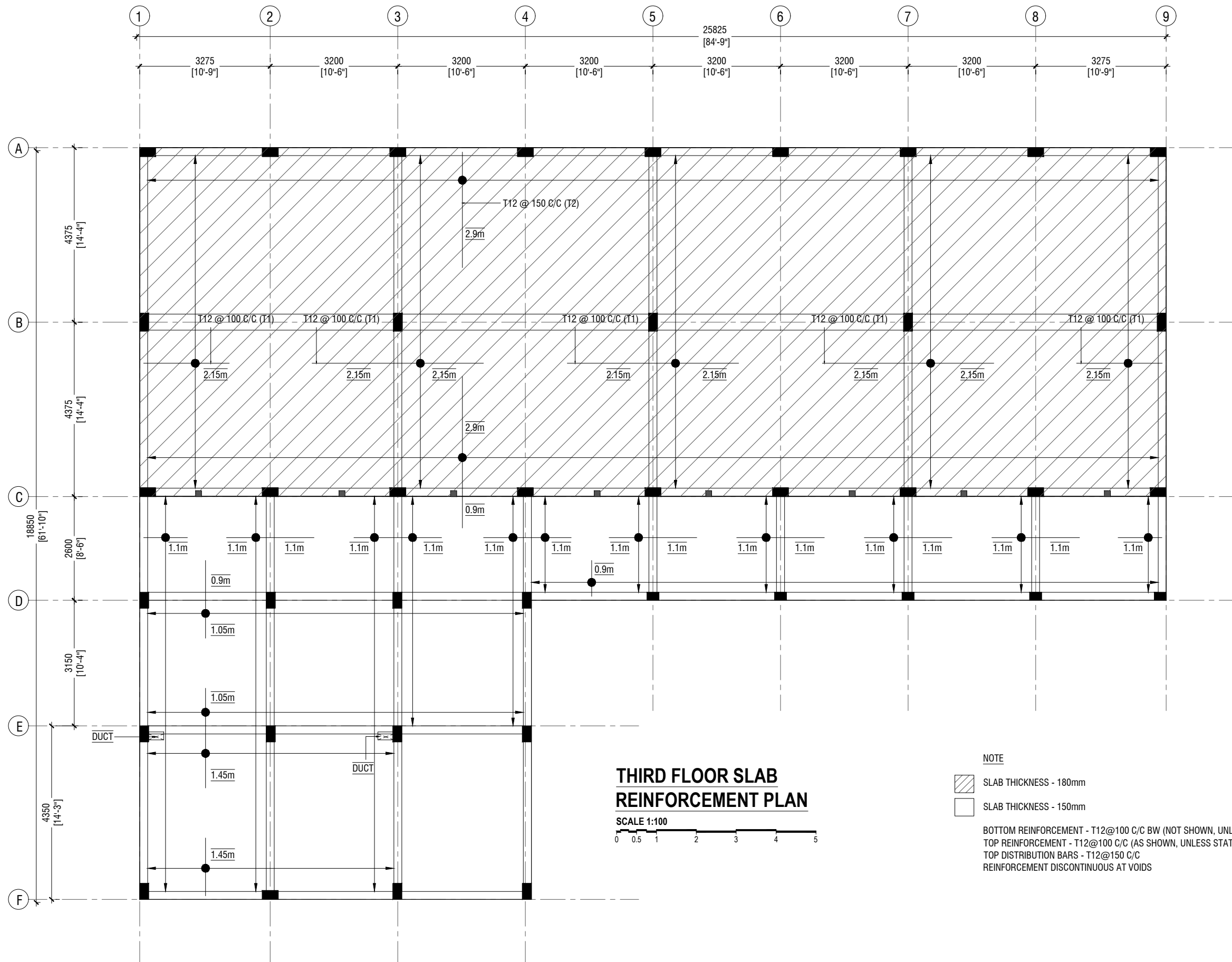


NOTE

- SLAB THICKNESS - 180mm
- SLAB THICKNESS - 150mm

BOTTOM REINFORCEMENT - T12@100 C/C BW (NOT SHOWN, UNLESS STATED)
TOP REINFORCEMENT - T12@100 C/C (AS SHOWN, UNLESS STATED)
TOP DISTRIBUTION BARS - T12@150 C/C
REINFORCEMENT DISCONTINUOUS AT VOIDS

Issue	Date	Description
AMMENDMENTS.		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 06 / 21		



THIRD FLOOR SLAB
REINFORCEMENT PLAN

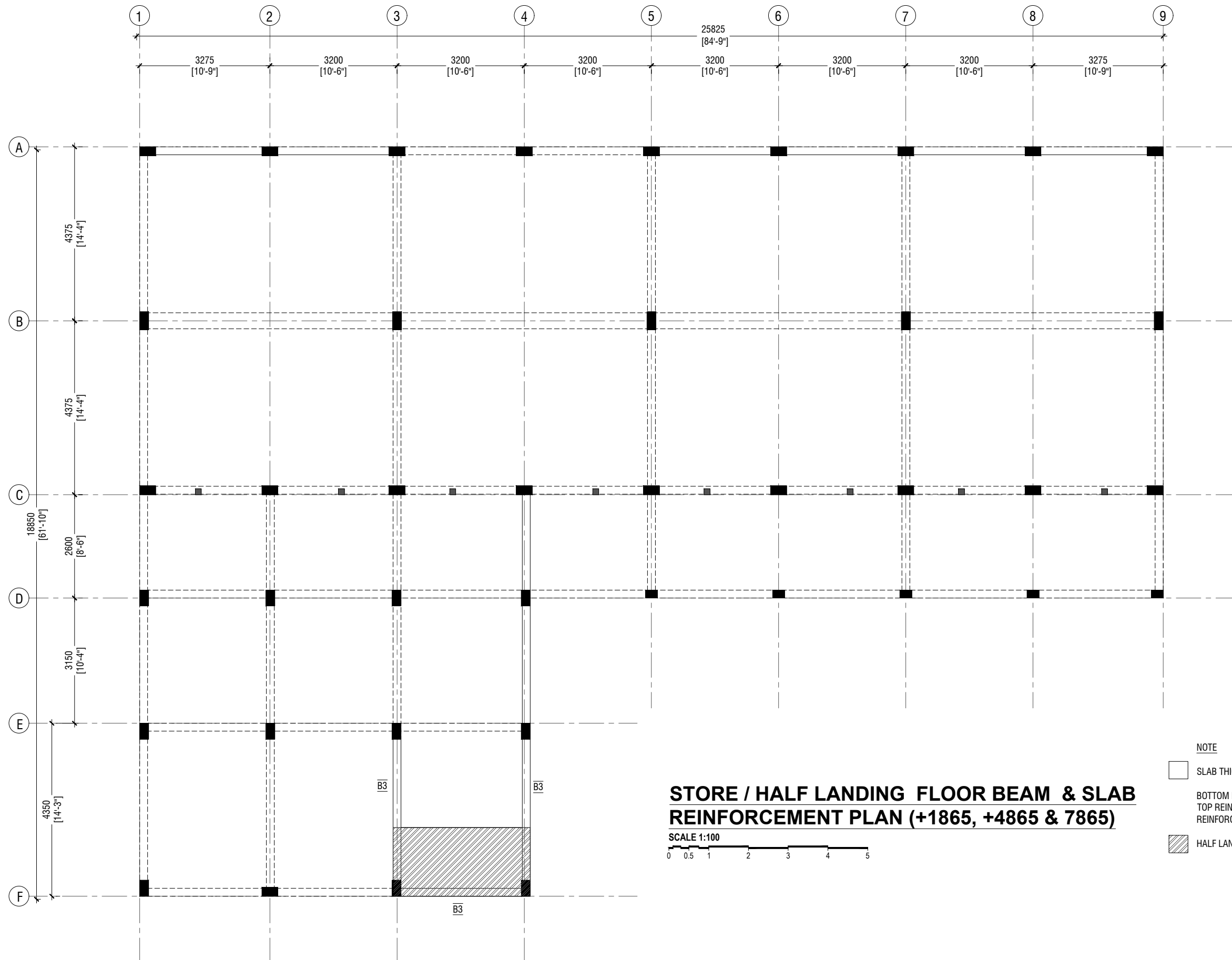
SCALE 1:100

NOTE

- SLAB THICKNESS - 180mm
- SLAB THICKNESS - 150mm

BOTTOM REINFORCEMENT - T12@100 C/C BW (NOT SHOWN, UNLESS STATED)
TOP REINFORCEMENT - T12@100 C/C (AS SHOWN, UNLESS STATED)
TOP DISTRIBUTION BARS - T12@150 C/C
REINFORCEMENT DISCONTINUOUS AT VOIDS

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 07 / 21		

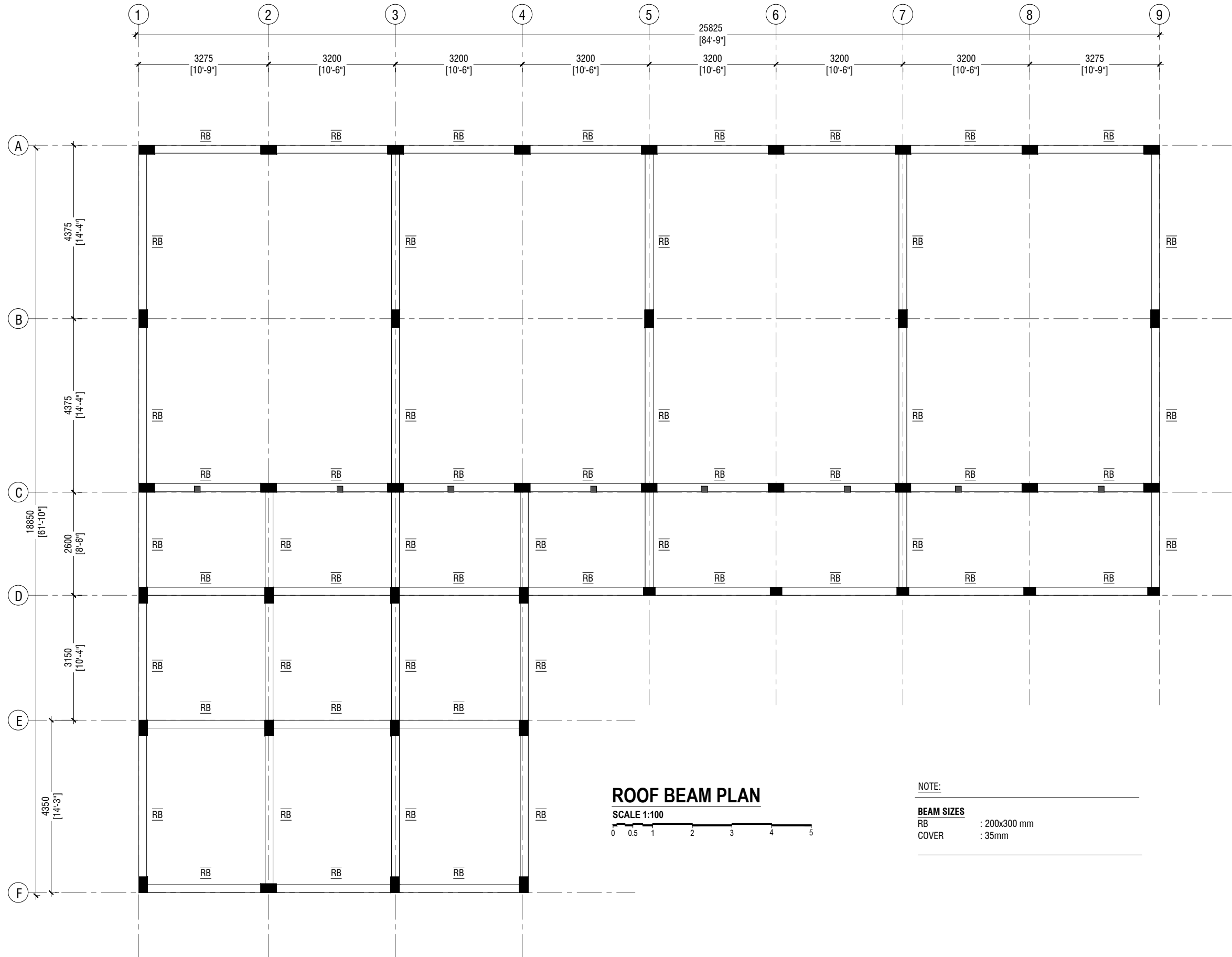


**STORE / HALF LANDING FLOOR BEAM & SLAB
REINFORCEMENT PLAN (+1865, +4865 & 7865)**

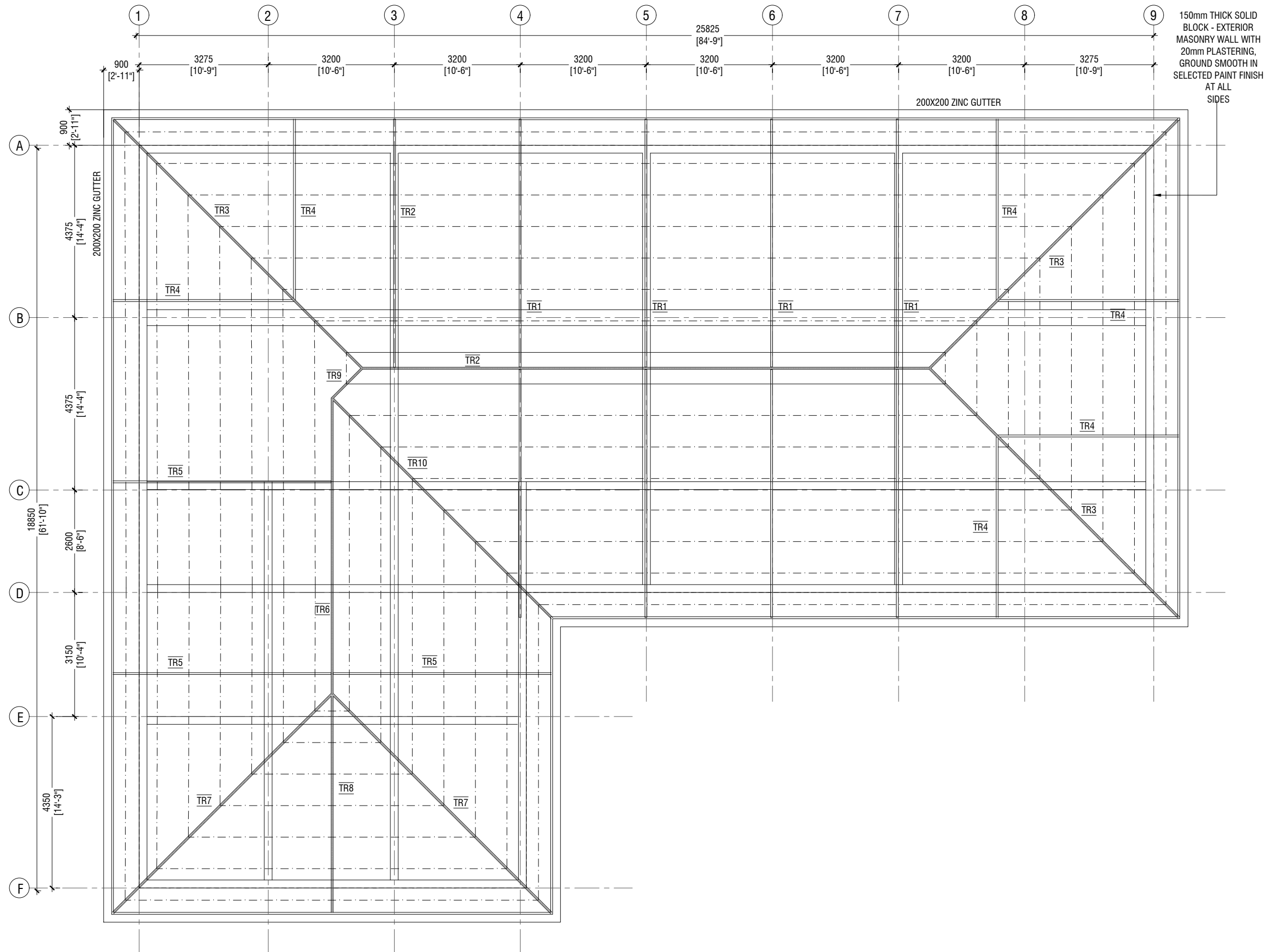
SCALE 1:100
0 0.5 1 2 3 4 5

- NOTE**
- SLAB THICKNESS - 150mm
 - BOTTOM REINFORCEMENT - T12@100 C/C BW (NOT SHOWN, UNLESS STATED)
 - TOP REINFORCEMENT - T12@100 C/C BW (AS SHOWN, UNLESS STATED)
 - REINFORCEMENT DISCONTINUOUS AT VOIDS
 - HALF LANDING SLAB - 150mm WITH T12 @ 100mm T&B

Issue	Date	Description
AMMENDMENTS.		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 08 / 21		



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 09 / 21		

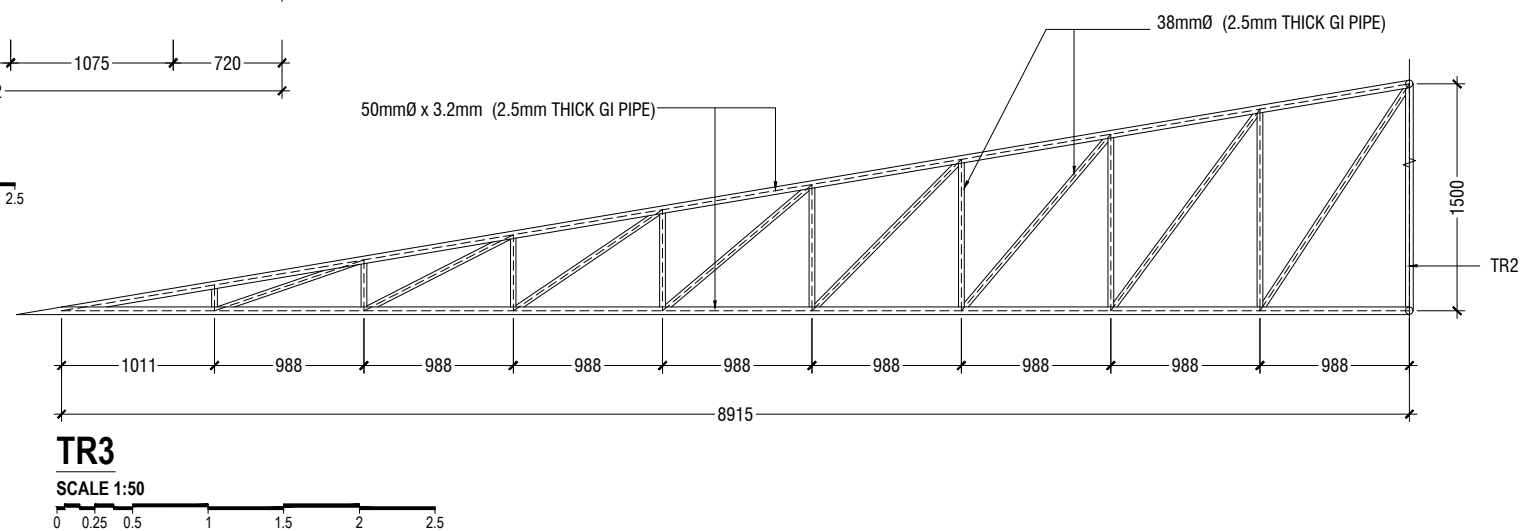
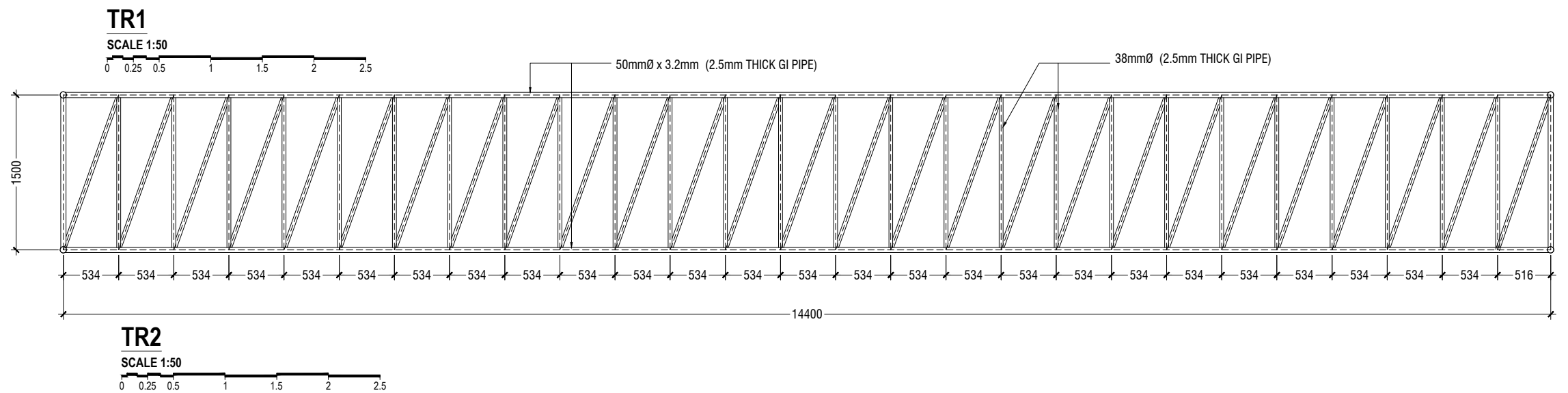


ROOF FRAMING PLAN

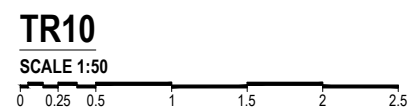
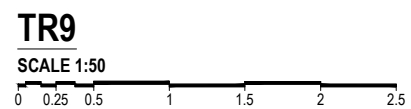
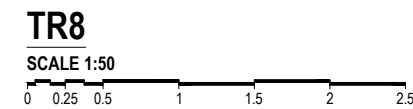
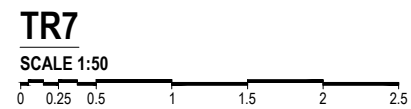
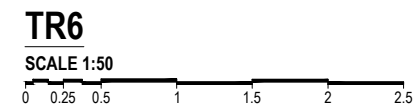
SCALE 1:100



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 10 / 21		



Issue	Date	Description
AMMENDMENTS.		
<p>PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES</p>		
<p>PROJECT</p> <p>HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH</p>		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 11 / 21		

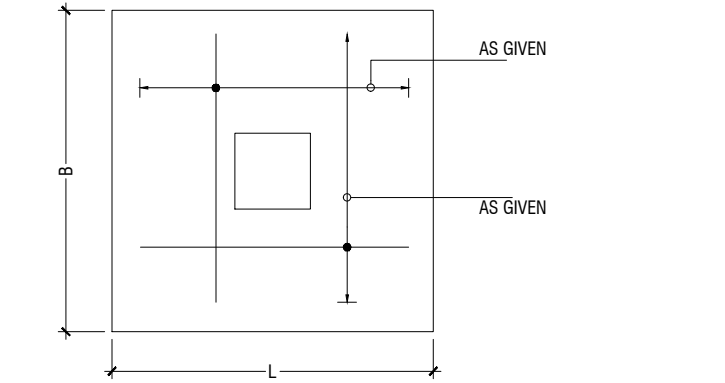
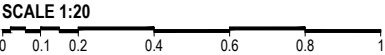


Issue	Date	Description
AMMENDMENTS.		
<p>PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES</p>		
<p>PROJECT</p> <p>HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH</p>		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : E 12 / 21		

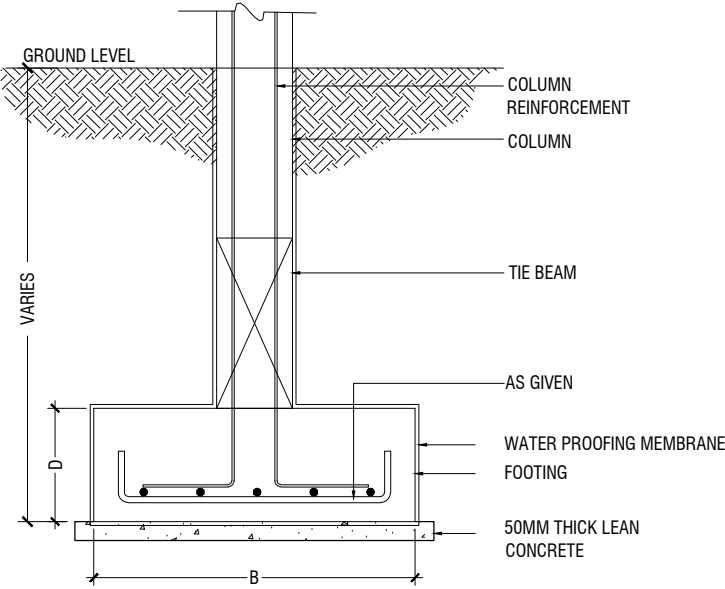
	GROUND & 1ST FLOOR
C1	
C2	
C3	
C4	
C4a	
SC	
SC1	

COLUMN DETAIL

STRUCTURAL DETAILS - 1



PLAN



TYPICAL FOOTING SECTION

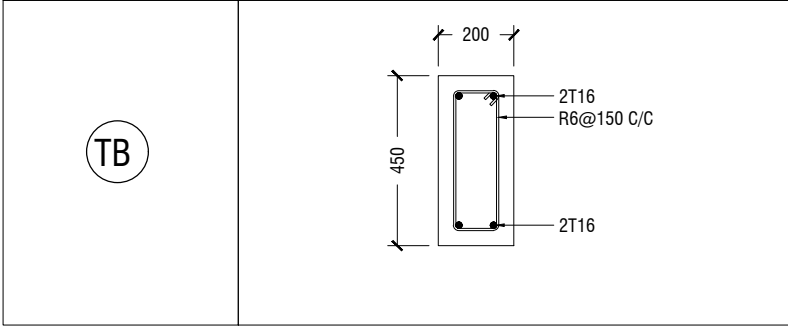
FOUNDATION PADS

	DIMENSION (L x B x D)	REINFORCEMENT	FOUNDATION DEPTH
F1	2900 x 2900 x 400	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)	1250mm
F2	2400 x 2400 x 400	T16@150 C/C B/W (B)	1250mm
F3	2200 x 2200 x 350	T16@150 C/C B/W (B)	1200mm
F4	1900 x 1900 x 350	T16@150 C/C B/W (B)	1200mm
F5	1200 x 1200 x 350	T12@150 C/C B/W (B)	1200mm

NOTE:-
COVER TO FOUNDATION = 50mm
COVER TO COLUMNS = 40mm
COVER TO BEAMS = 35mm
COVER TO SLAB = 30mm
LAPS = Ø OF BAR x 45
BEAMS @END SUPPORT = Ø OF BAR x 12

GRADE OF CONCRETE = M25

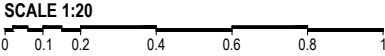
FOUNDATION PADS



TIE BEAM DETAILS

NOTE:-
TIE BEAM REINFORCEMENT TO GO THROUGH BETWEEN COLUMN REINFORCEMENT

STRUCTURAL DETAILS - 1



Issue	Date	Description
AMMENDMENTS.		

PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		

PROJECT REFERENCE
CLIENT MINISTRY OF EDUCATION
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
SCALE : AS GIVEN
DATE : 07.09.2021
DWG NO : S 13/21

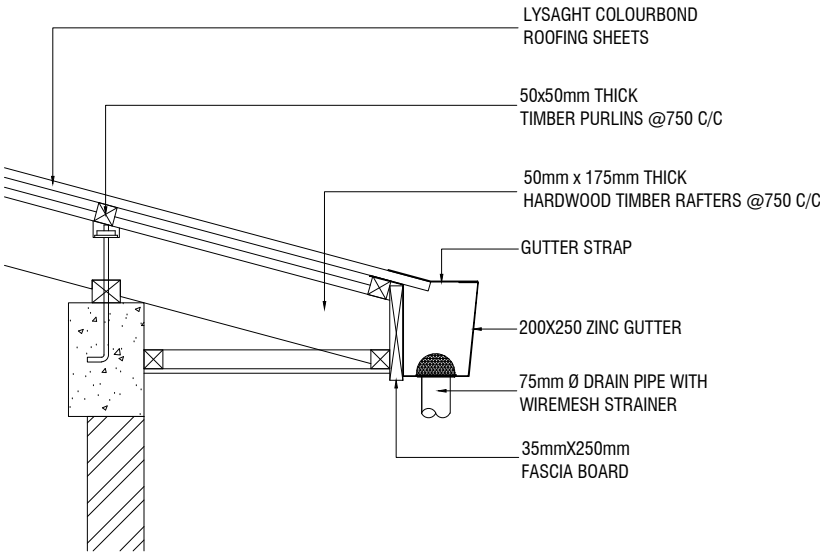
	MIDSPAN	SUPPORT
B1		
B2		
B3		
B4		
RB		
HB		

BEAM DETAIL

NOTE:
PROVIDE 25MM SPACER BAR @ 2000 C/C BETWEEN TWO LAYERS
OF BEAM REINFORCEMENT

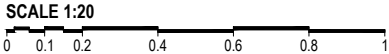
CB1	
RB1	
LB1	
LB2	

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

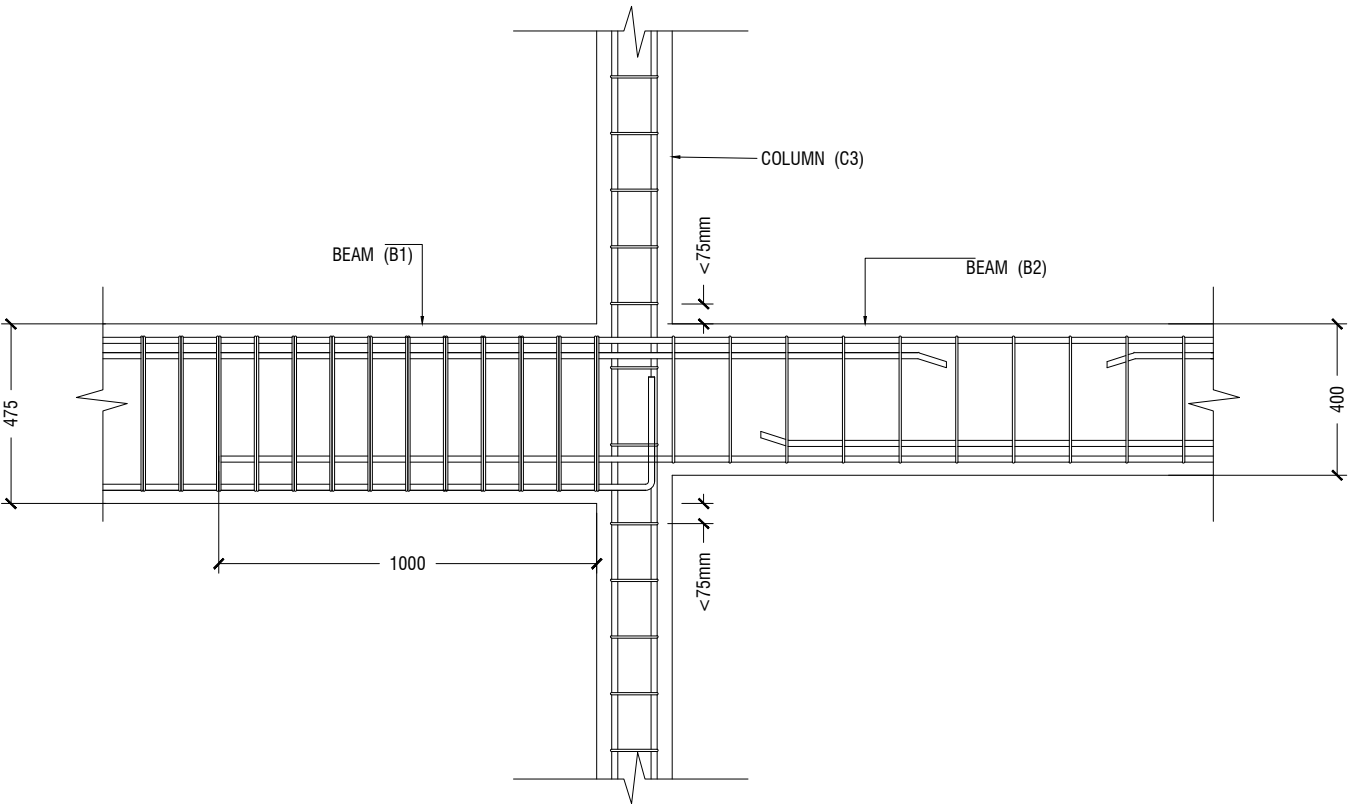


TYPICAL EAVE DETAILS

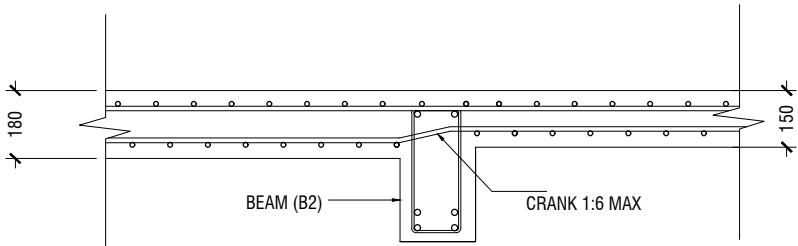
STRUCTURAL DETAILS - 2



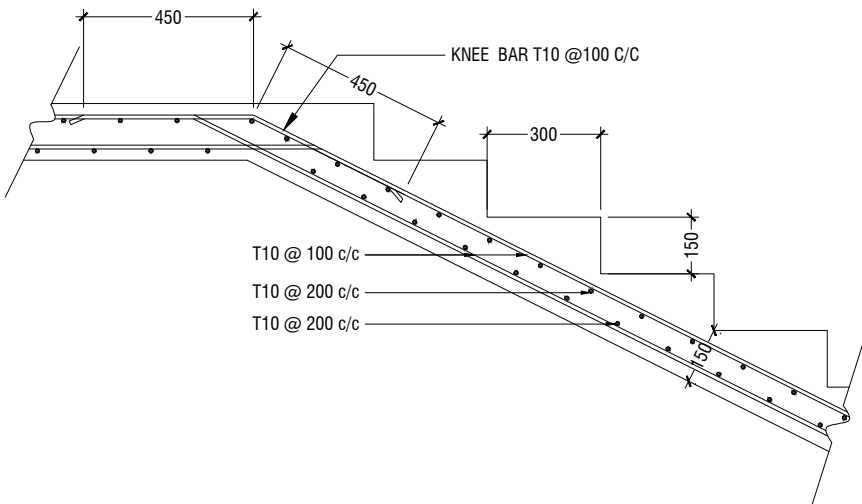
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 14/21		



B1 TO B2 CONNECTION DETAIL

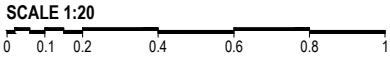


SLAB THICKNESS REDUCTION DETAIL



MAIN STAIRCASE REINFORCEMENT DETAIL

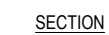
STRUCTURAL DETAILS - 3



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 15/21		

Technical drawing of a circular part. It features two concentric circles. The outer circle is labeled with a diameter of $\varnothing 1150$. The inner circle is labeled with a diameter of $\varnothing 1010$. There are 16 small circles (holes) arranged in a ring between the two main circles. A vertical dashed line is shown on the left side of the drawing.

SCALE 1:20



- ALL CONCRETE WORKS BELOW GROUND AND AT TERRACE LEVEL TO BE TREATED WITH 'SIKA' WATERPROOFING CHEMICAL OR EQUIVALENT
- PROVIDE PROVISION FOR WATER ENTRANCE THROUGH THE BASE

SCALE 1:20

PROJECT
**K.HIMMAFUSHI SCHOOL
MULTIPURPOSE HALL & 4 CLASS
ROOMS**

PROJECT REFERENCE
CLIENT : MINISTRY OF EDUCATION
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
SCALE : AS GIVEN
DATE : 07.09.2021
DWG NO : S 16/21

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 SUBJECTED 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/MM2 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/M2. 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 CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER TO DESIGN AND STRENGTHEN THE BEAMS/WALLS.
- THE CONTRACTER 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:

MAIN BUILDING		
LEAN CONCRETE	15	N/mm2
MASS CONCRETE	30	N/mm2
COLUMN, BEAM AND SLAB	30	N/mm2
EXTERNAL WORK		
PAVEMENTS	30	N/mm2
ALL OTHERS (CULVERT, DRAINS, MANHOLE, ETC)	30	N/mm2
FOUNDATION		
PILECAP, FOOTING, RAFT TIE-BEAM, CAPPING BEAM	30	N/mm2

- CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS 12.

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
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CHECKED :		
SCALE : AS GIVEN		
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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/mm2
HIGH TENSILE TYPE II DEFORMED BAR	415 N/mm2

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

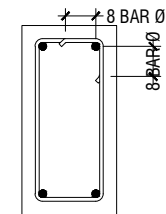
- THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING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

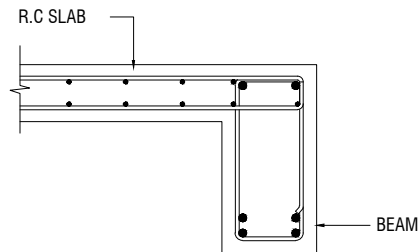
18.0 SPACER BARS

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

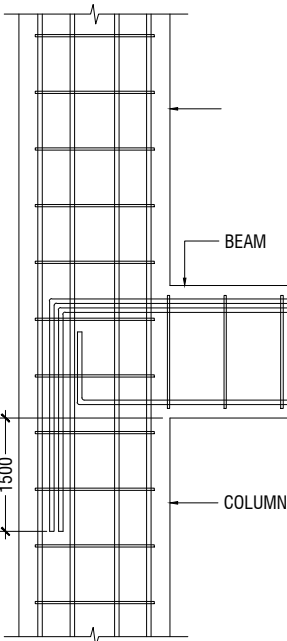


Ø = DIA OF LINK

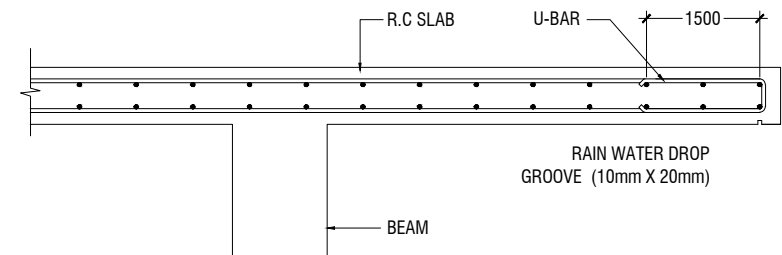
SHEAR LINKS ANCHORAGE DETAIL



SLAB-BEAM ANCHORAGE DETAIL



BEAM TO COLUMN CONNECTION



CANTILEVERED SLAB EDGE DETAIL

Issue	Date	Description
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PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
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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.

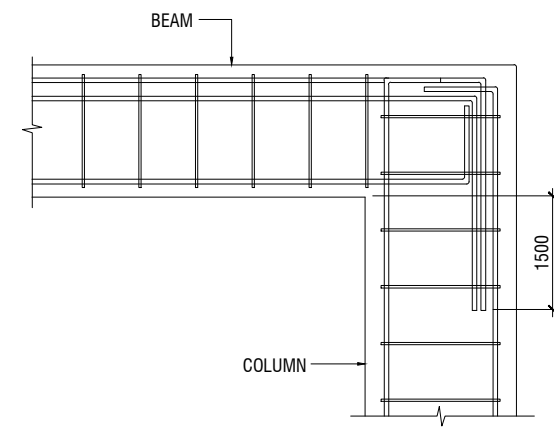
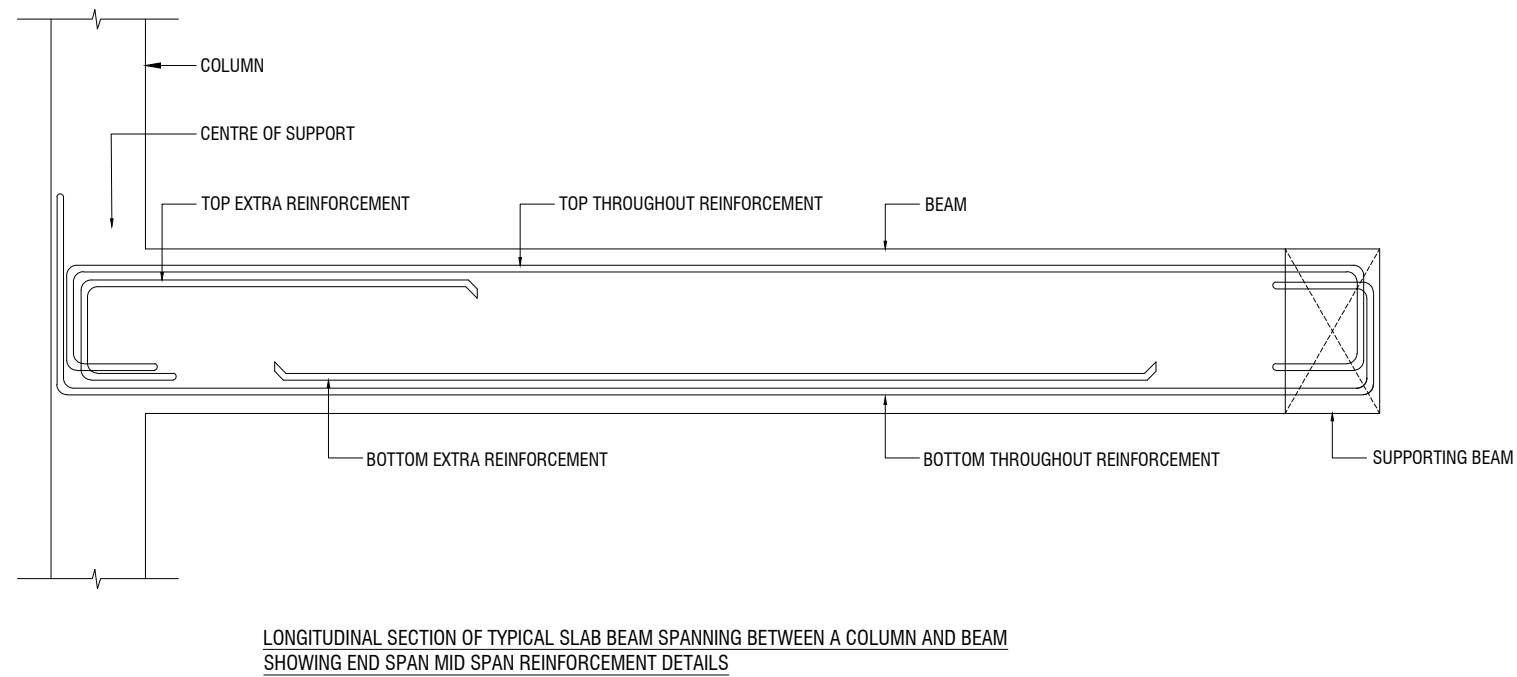
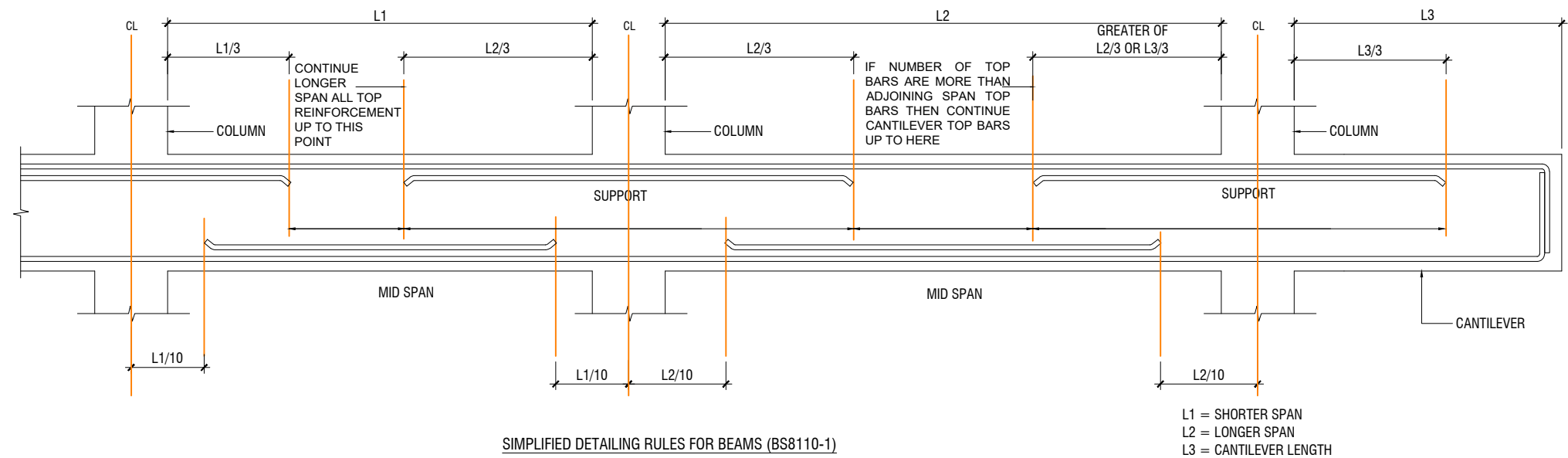
23.0 POST-INSTALLED ANCHORS

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.

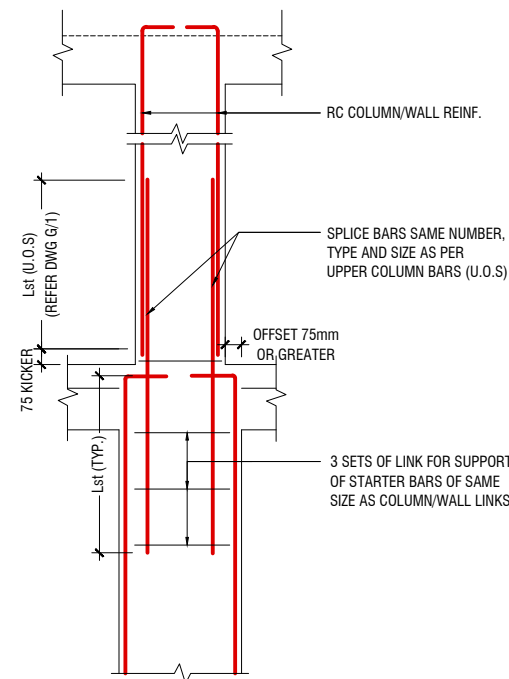
3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE AND MECHANICAL ANCHOR INSTALLATIONS AS REQUIRED BY THE EOR. INDEPENDENT ON-SITE PROOF LOAD TESTING SHALL BE PERFORMED AS REQUIRED BY THE EOR. CONTACT EOR FOR NUMBER OF ANCHORS REQUIRED TO BE TESTED AND REQUIRED PROOF LOAD MAGNITUDE.

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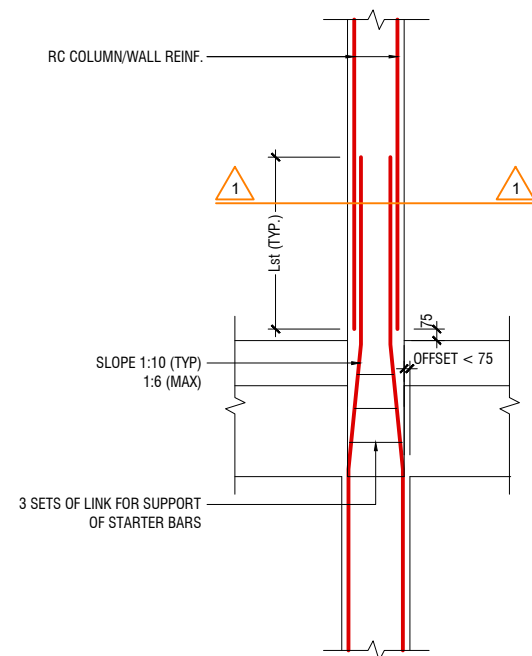


NOTE:
STANDARD DETAILS GIVEN HERE ALSO APPLIES TO FOUNDATION MEMBERS
OTHER DETAILS NOT FOUND HERE SHALL BE REFERRED TO IN RELEVANT BS
CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER

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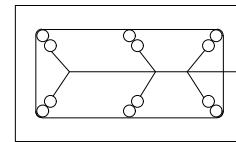


A) FOR COLUMN OFFSET > 75mm
TO BE VERIFIED BY THE CONSULTING ENGINEER

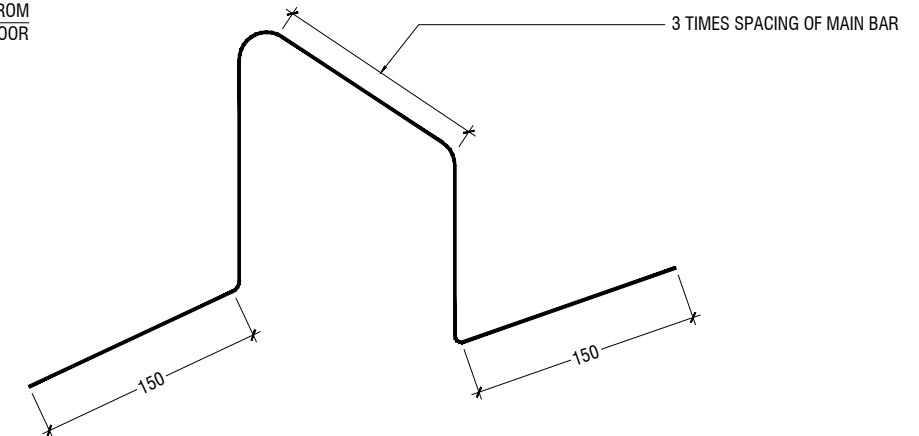


B) FOR COLUMN OFFSET < 75mm

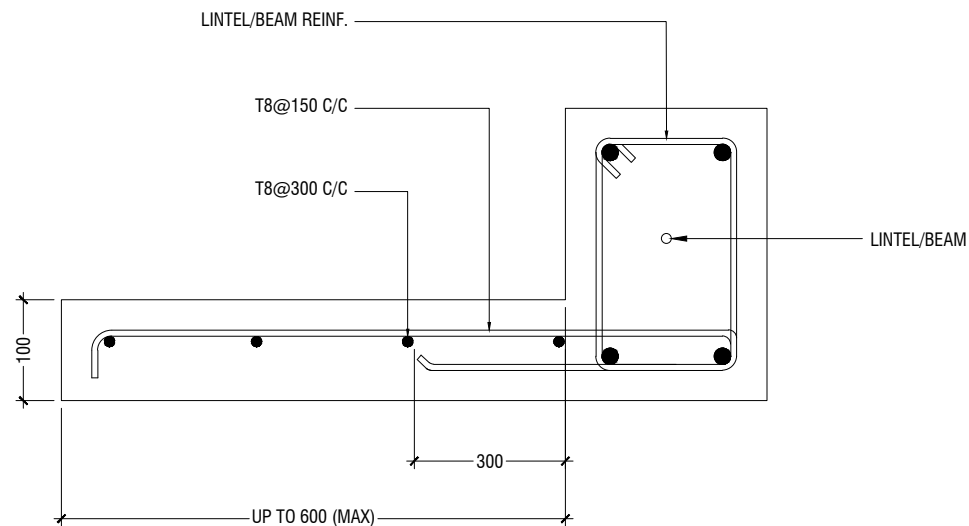
COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL



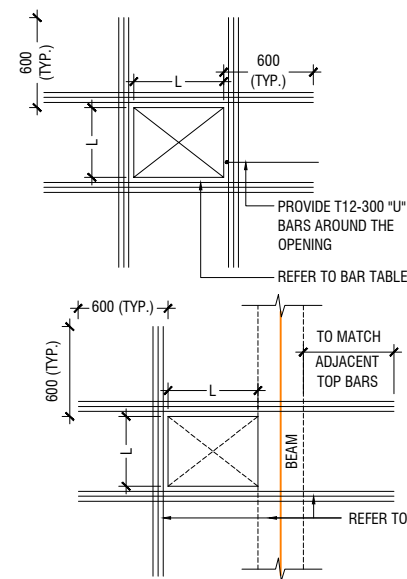
SECTION-1-1



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

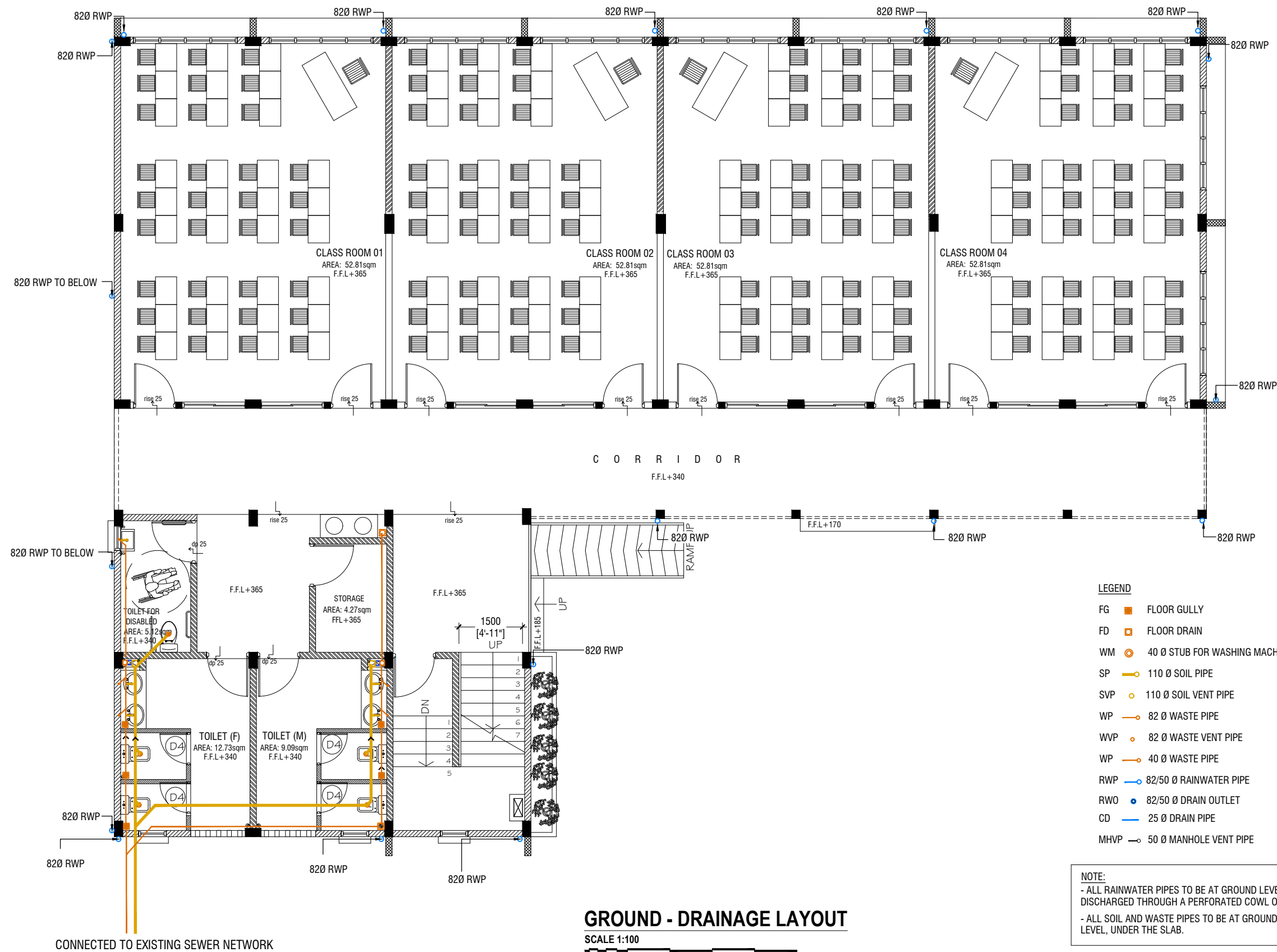
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Proposed 16 Classroom
HAFIZ AHMED SCHOOL
Gn.Fuvahmulah
(04 Storey)

SERVICE DRAWINGS
Ministry of Education
Male', Republic of Maldives

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DR - 02 /03	FIRST - THIRD FLOOR DRAINAGE LAYOUT	---	---	---
DR - 03 /03	ROOF DRAINAGE LAYOUT	---	---	---
PL - 01 / 02	GROUND FLOOR PLUMBING LAYOUT	---	---	---
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EL - 01 / 02	GROUND FLOOR LIGHTING LAYOUT	---	---	---
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FIRST - THIRD - DRAINAGE LAYOUT

SCALE 1:100



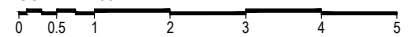
LEGEND













- FG ■ FLOOR GULLY
- FD □ FLOOR DRAIN
- WM ○ 40 Ø STUB FOR WASHING MACHINE
- SP — 110 Ø SOIL PIPE
- SVP ○ 110 Ø SOIL VENT PIPE
- WP — 82 Ø WASTE PIPE
- WVP ○ 82 Ø WASTE VENT PIPE
- WP — 40 Ø WASTE PIPE
- RWP — 82/50 Ø RAINWATER PIPE
- RWO ● 82/50 Ø DRAIN OUTLET
- CD — 25 Ø DRAIN PIPE
- MHVP — 50 Ø MANHOLE VENT PIPE

NOTE:

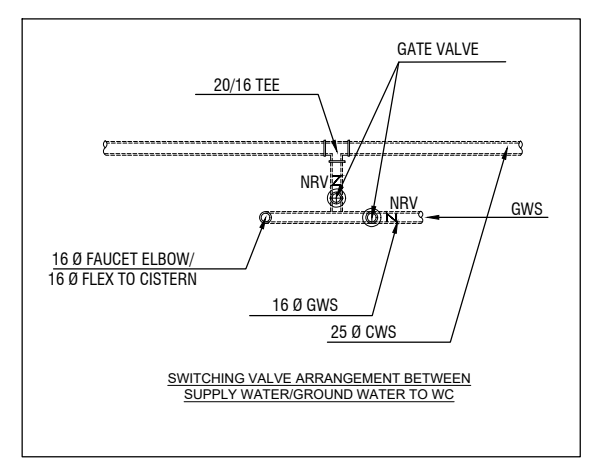
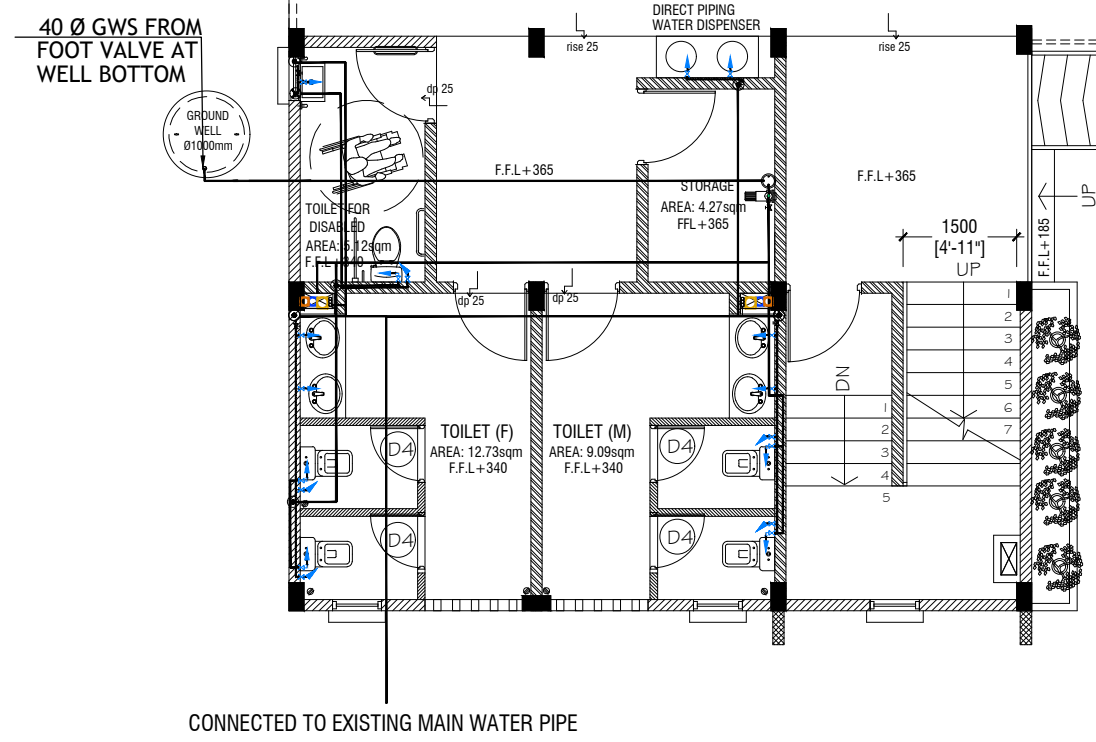
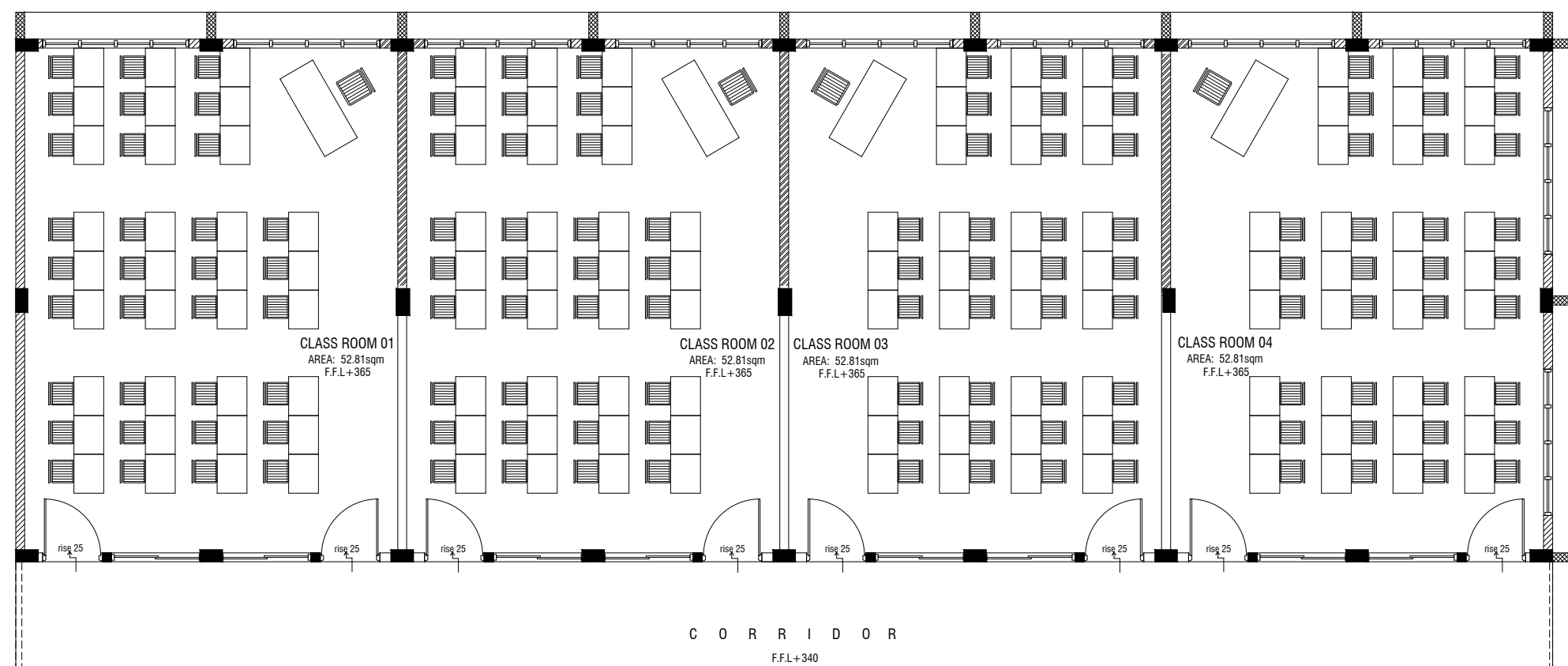
- ALL SOIL AND WASTE PIPES TO BE UNDER THE SLAB LEVEL.

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FG		FLOOR GULLY
FD		FLOOR DRAIN
WM		40 Ø STUB FOR WASHING MACHINE
SP		110 Ø SOIL PIPE
SVP		110 Ø SOIL VENT PIPE
WP		82 Ø WASTE PIPE
WVP		82 Ø WASTE VENT PIPE
WP		40 Ø WASTE PIPE
RWP		82/50 Ø RAINWATER PIPE
RWO		82/50 Ø DRAIN OUTLET
CD		25 Ø DRAIN PIPE
MHPV		50 Ø MANHOLE VENT PIPE

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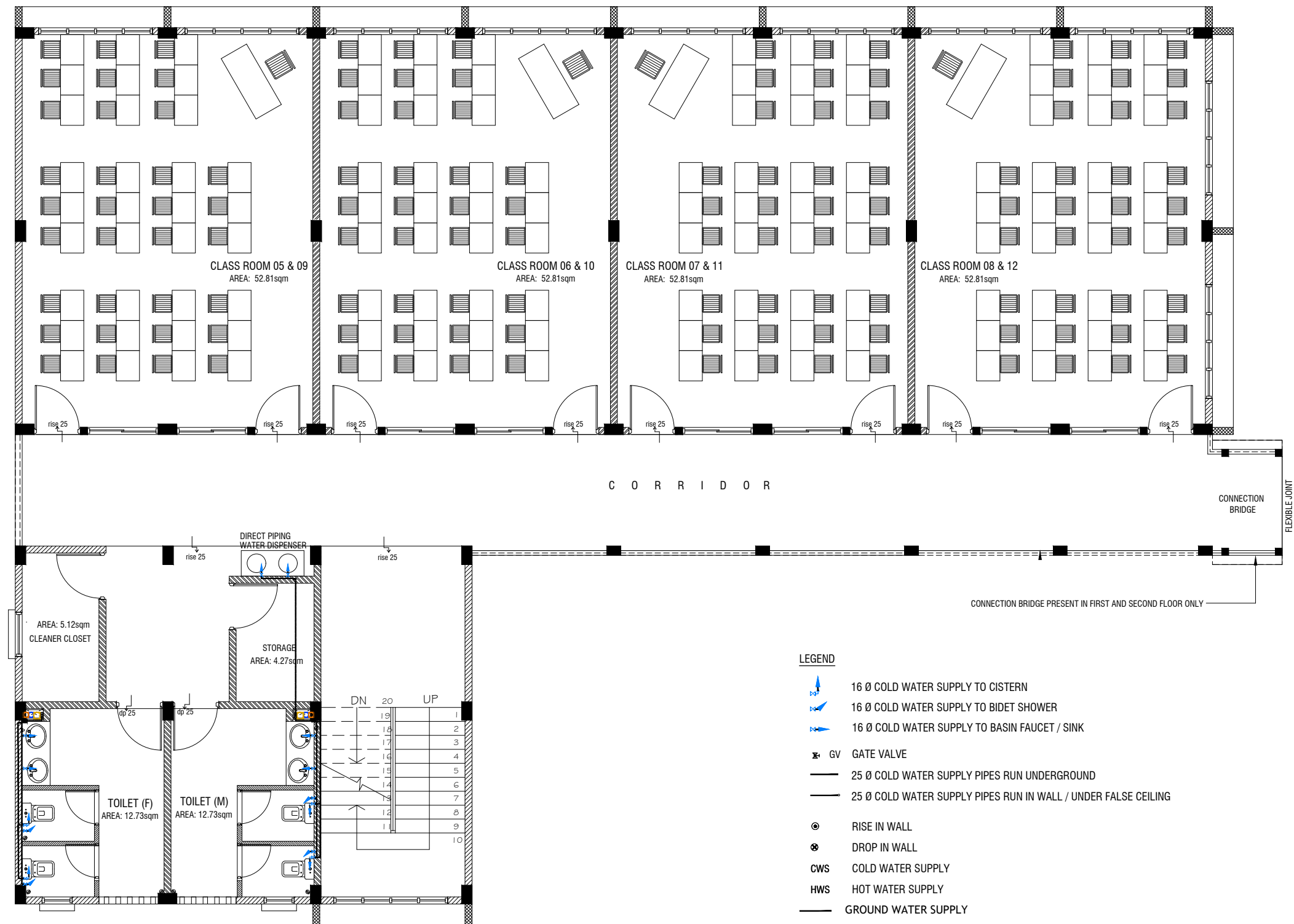
- LEGEND**
- 16 Ø COLD WATER SUPPLY TO CISTERN
 - 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
 - 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
 - GV GATE VALVE
 - 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
 - 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING

- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

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

GROUND FLOOR PLUMBING LAYOUT
SCALE 1:100

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LEGEND

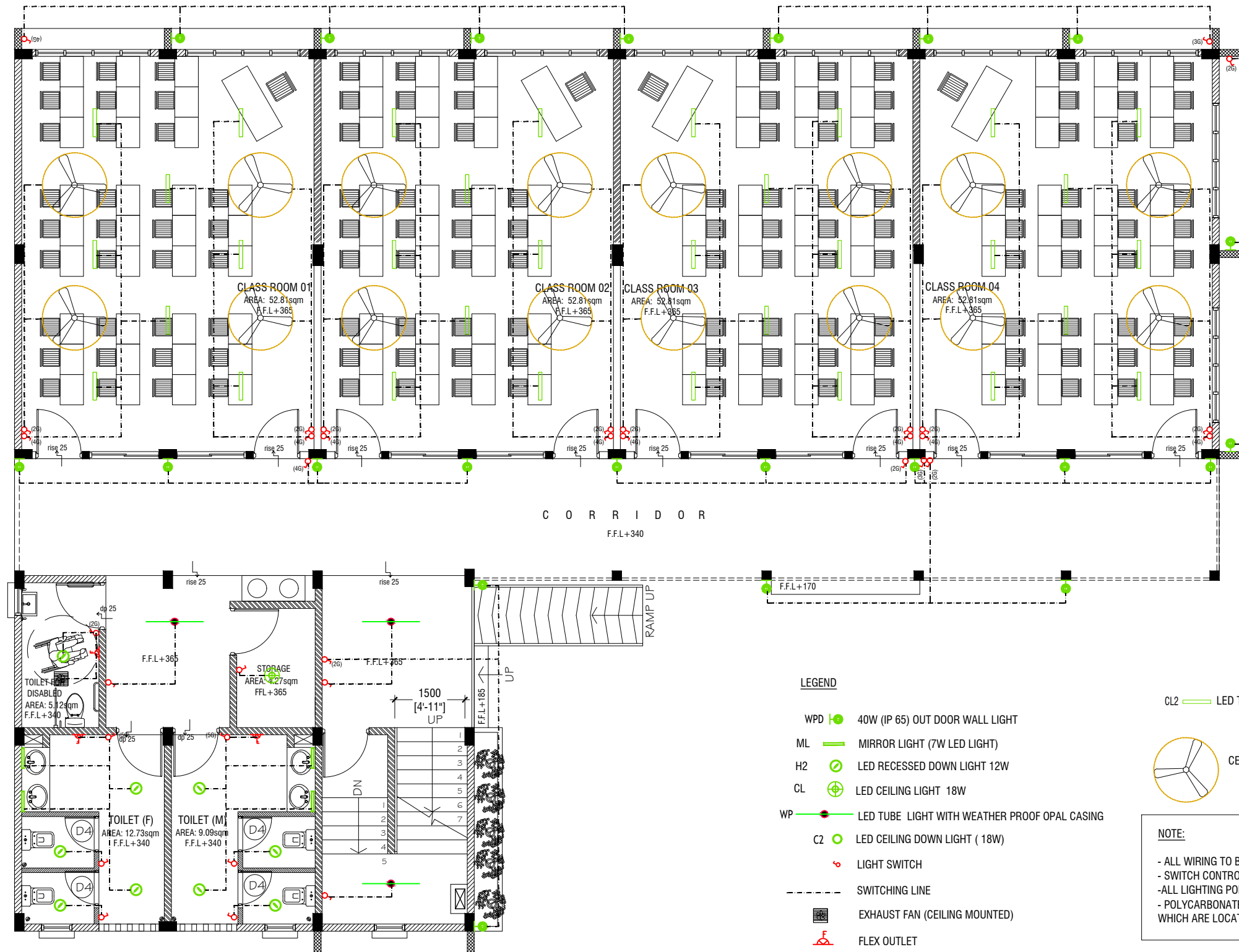
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- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

FIRST - THIRD PLUMBING LAYOUT

SCALE 1:100



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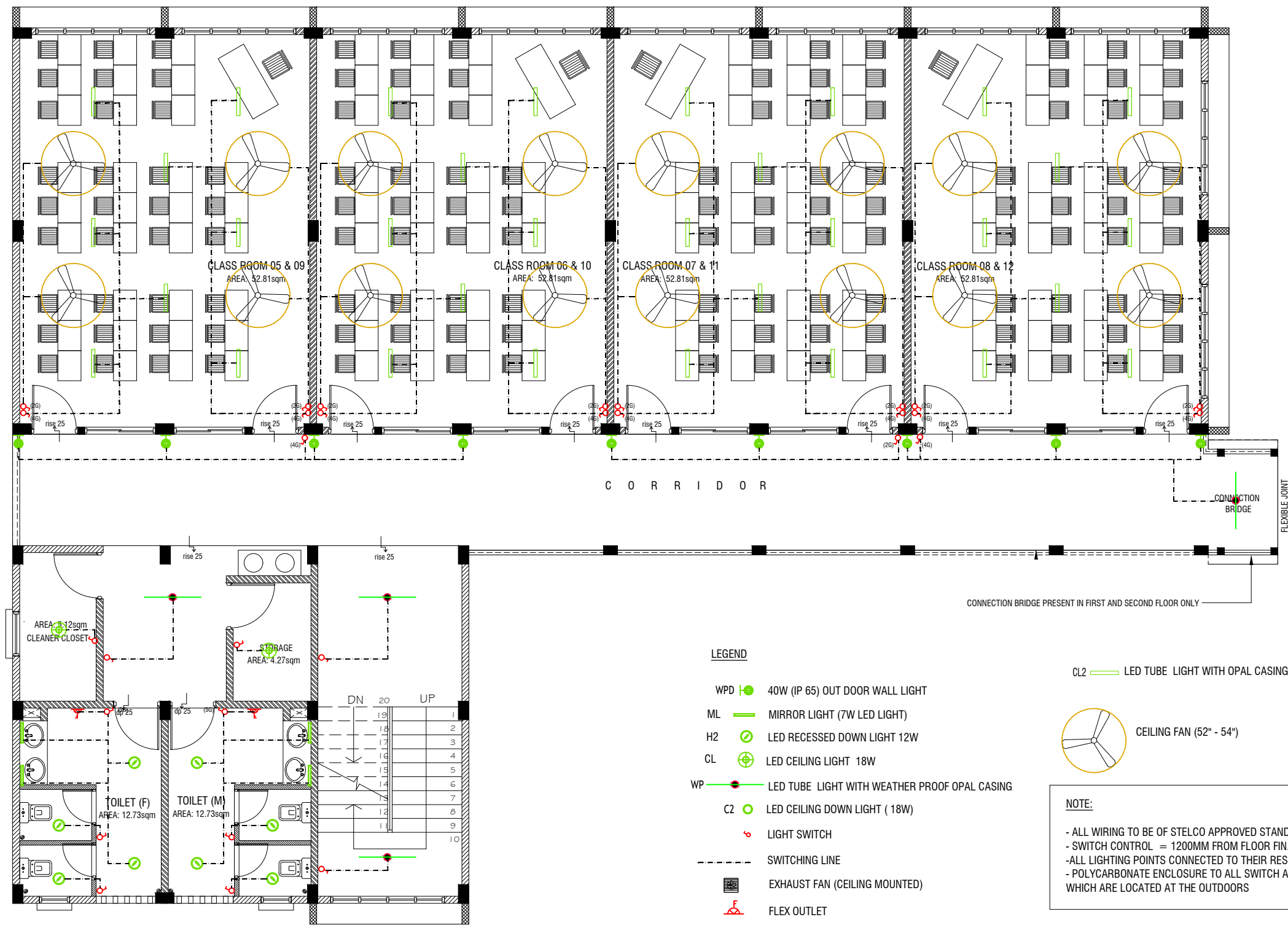


GROUND FLOOR LIGHTING LAYOUT

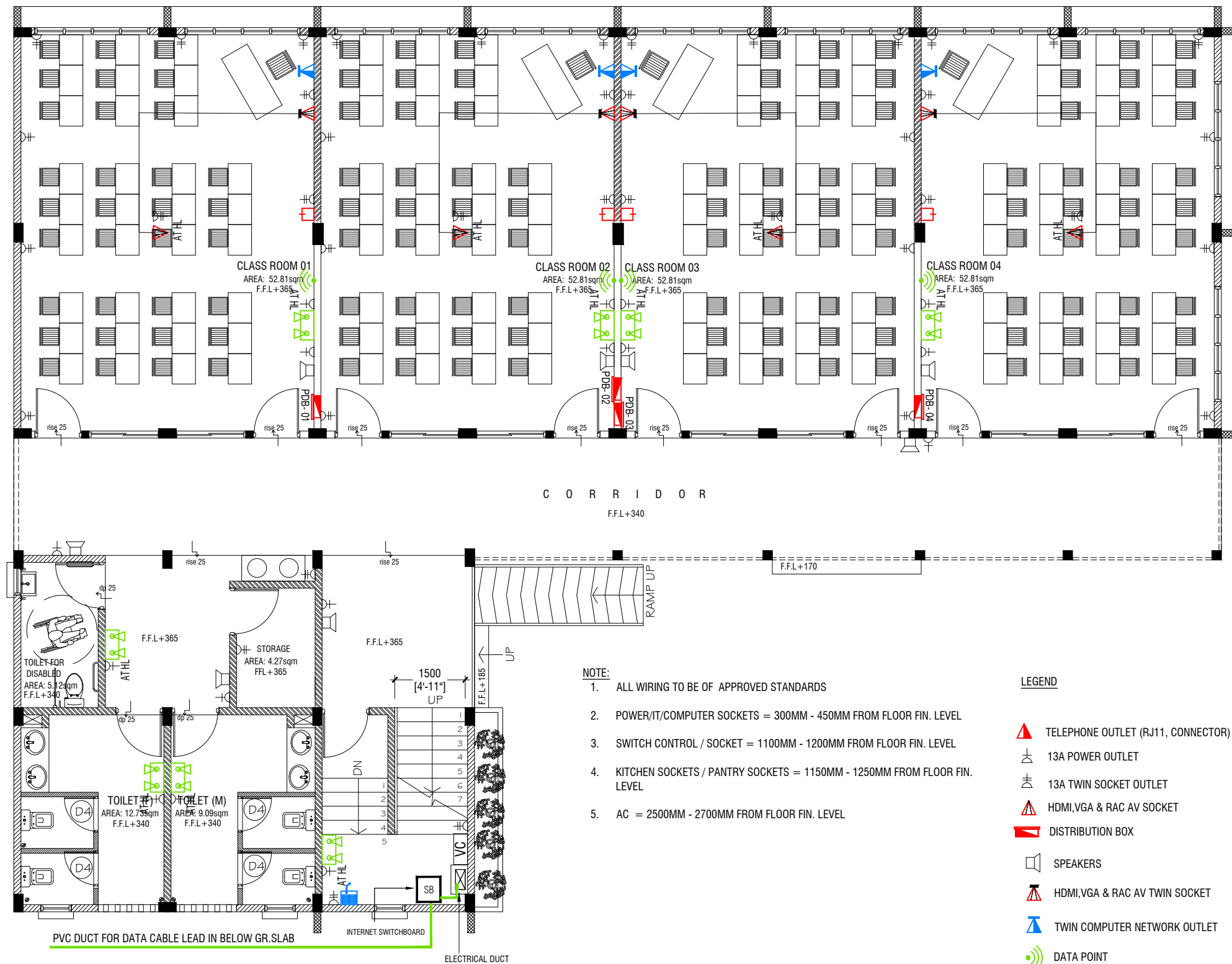
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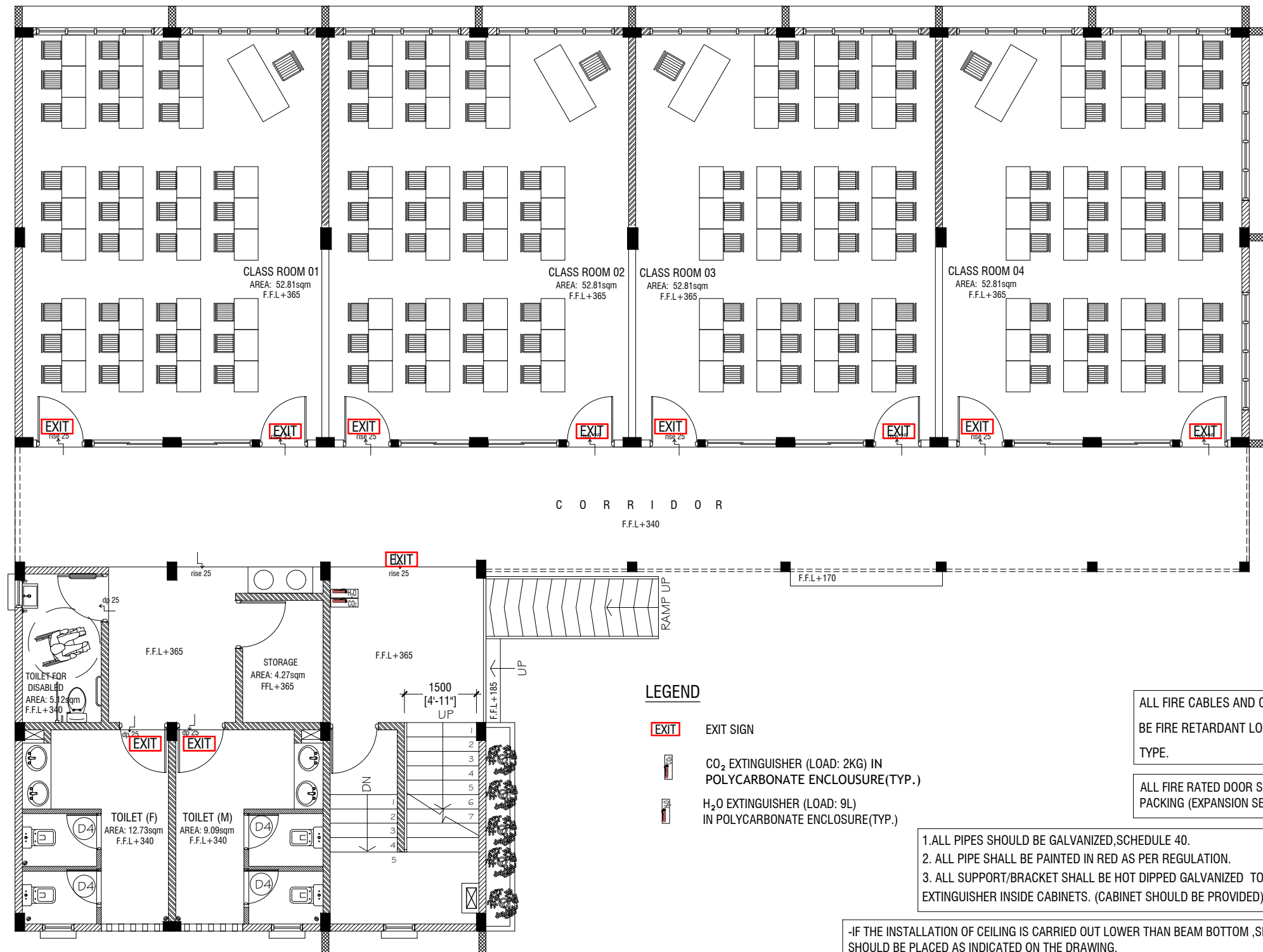
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DATE : 20.09.2021		
DWG NO : S 06 / 11		



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : S 07 / 11		



Issue	Date	Description
AMMENDMENTS.		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : S 08 / 11		



LEGEND

- EXIT SIGN
- CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

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/BACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

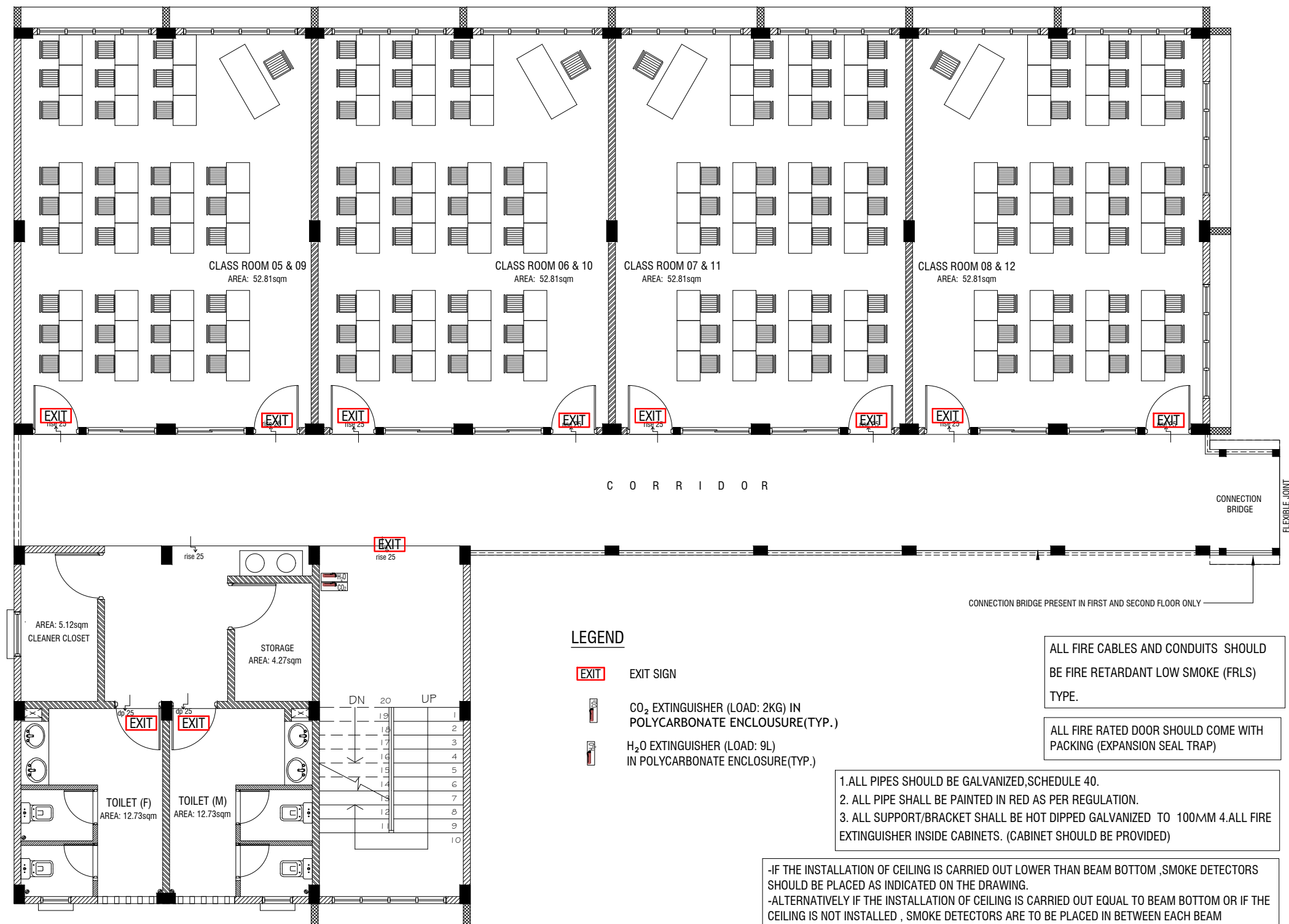
-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM

GROUND FLOOR FDP LAYOUT

SCALE 1:100



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : S 10 / 11		



FIRST - THIRD FDP LAYOUT

SCALE 1:100



Issue	Date	Description
AMMENDMENTS.		

PHYSICAL FACILITIES DEVELOPMENT SECTION
MINISTRY OF EDUCATION,
MALE,
REPUBLIC OF MALDIVES

PROJECT
HAFIZ AHMED SCHOOL
16 CLASS ROOMS (04 STOREY)
GN. FUVAMULAH

PROJECT REFERENCE

CLIENT MINISTRY OF EDUCATION

ARCHITECT :

ENGINEER :

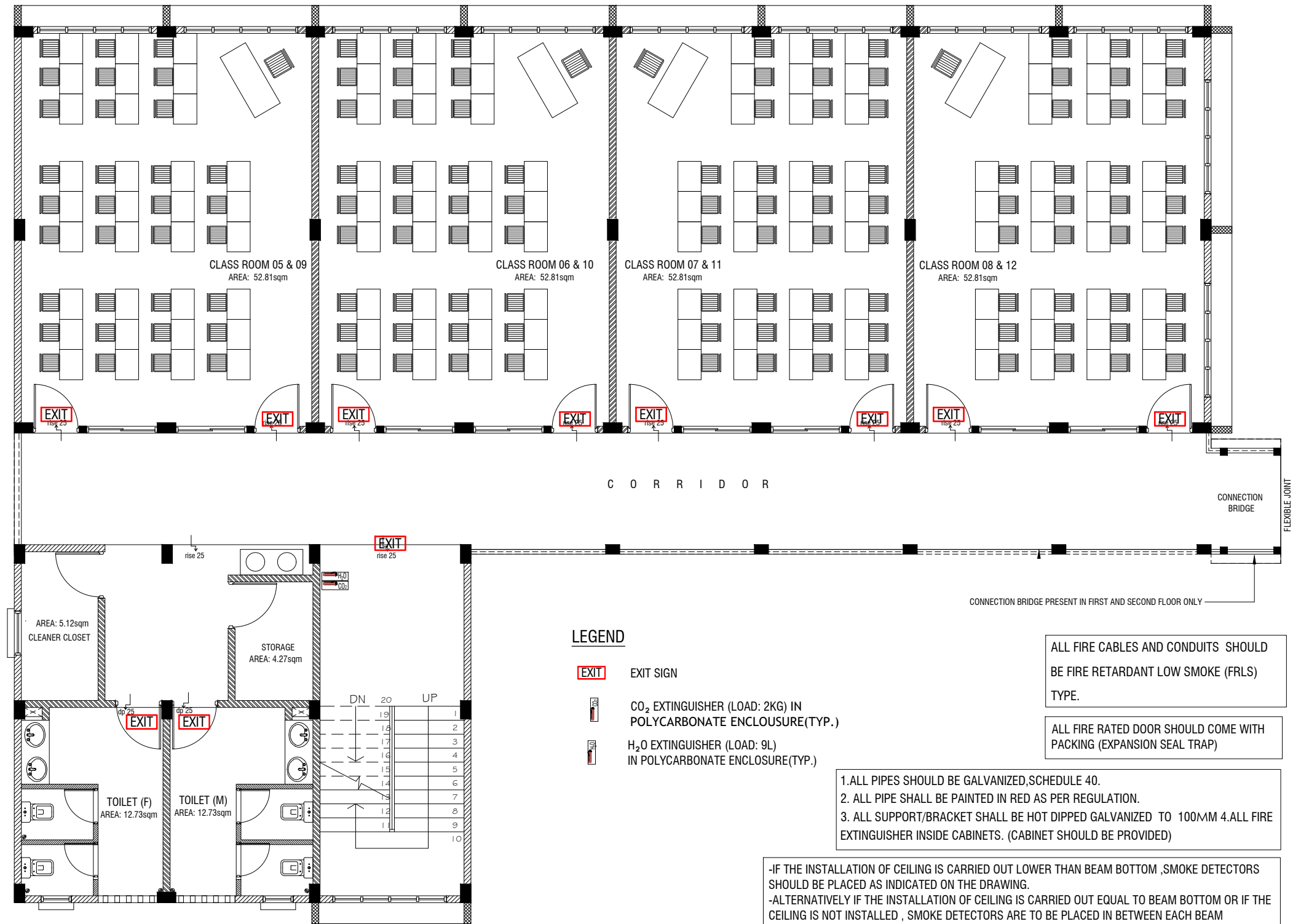
DRAWN :

CHECKED :

SCALE : AS GIVEN

DATE : 20.09.2021

DWG NO : S 11 / 11



FIRST - THIRD FDP LAYOUT

SCALE 1:100



LEGEND



EXIT SIGN



CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)



H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

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/BACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

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Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT HAFIZ AHMED SCHOOL 16 CLASS ROOMS (04 STOREY) GN. FUVAMULAH		
PROJECT REFERENCE		
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ENGINEER :		
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CHECKED :		
SCALE : AS GIVEN		
DATE : 20.09.2021		
DWG NO : S 11 / 11		