

Proposed 06 Classroom at
M.Naalaafushi School
(02 Storey)

ARCHITECTURAL & STRUCTURAL DRAWINGS
Client: Ministry of Education



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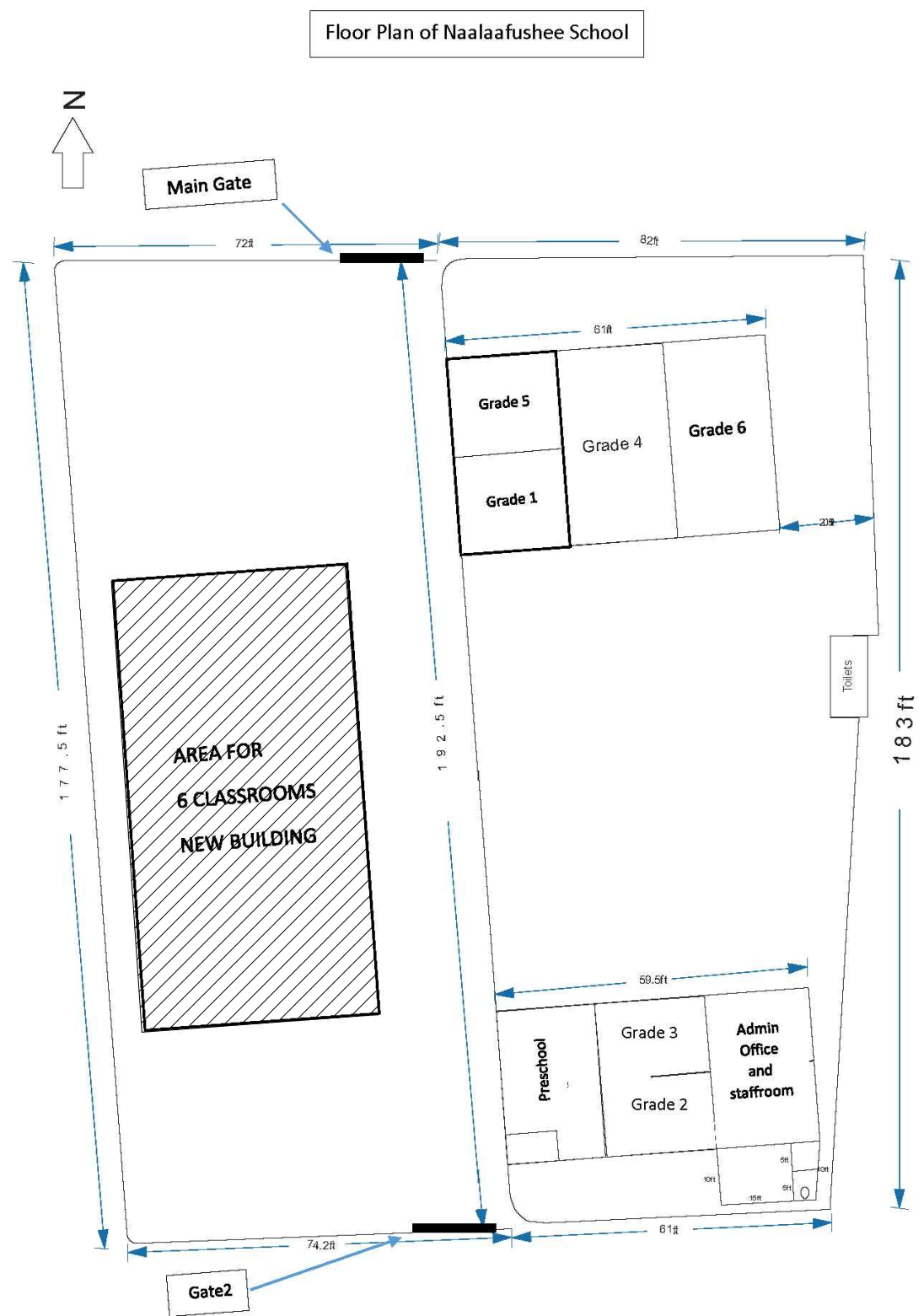
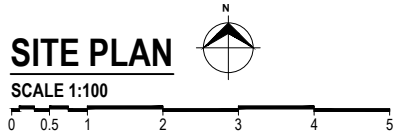
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3rd floor, H. Azum, Ameenemagu, Male

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NOTE:

NO DEMOLITION OF EXISTING TREES AND BUILDINGS AS PER THE SCHOOL (TO BE CONFIRMED ON SITE)

M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: April 2021	--	-----
Architect : Maryam Irasha Shareef	--	-----
Engineer : Mohamed Muhtalib Waleed	--	-----
Drawn by : Maryam Leevan Jaleel	--	-----
Prabakaran Nadimuthu	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----

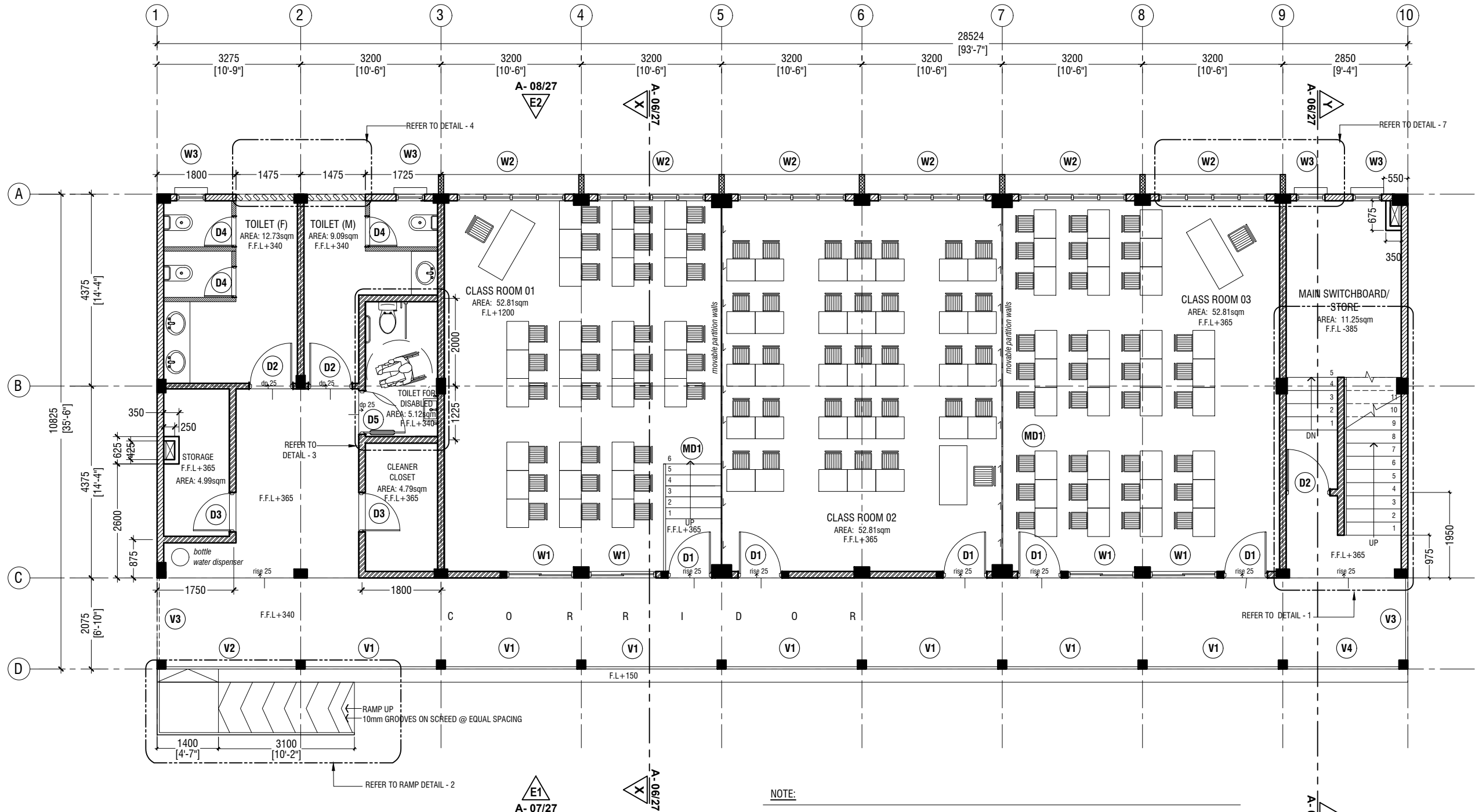
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3rd floor, H. Azum, Ameenemagau, Male'

Title: Site Plan

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GROUND FLOOR PLAN
SCALE 1:100



- 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
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 - PROPOSED 100mm THICK SOLID BLOCK 150mm HIGH FROM FFL - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH

THE SCREEDING AND TILES ARE INCORPORATED IN THE FLOOR FINISH LEVELS
REFER TO ARCHITECT FOR FURTHER ASSISTANCE.

M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education

Project Number: RI/2020/006	Date
Date: April 2021	Rev no
Architect: Maryam Irasha Shareef	Engineer: Mohamed Muhtalib Waleed
Engineer: Mohamed Muhtalib Waleed	Drawn by: Maryam Leevan Jaleel
Drawn by: Maryam Leevan Jaleel	Services: Jose Julius Alzate & Jeffry Caballo
Services: Jose Julius Alzate & Jeffry Caballo	Interior: -

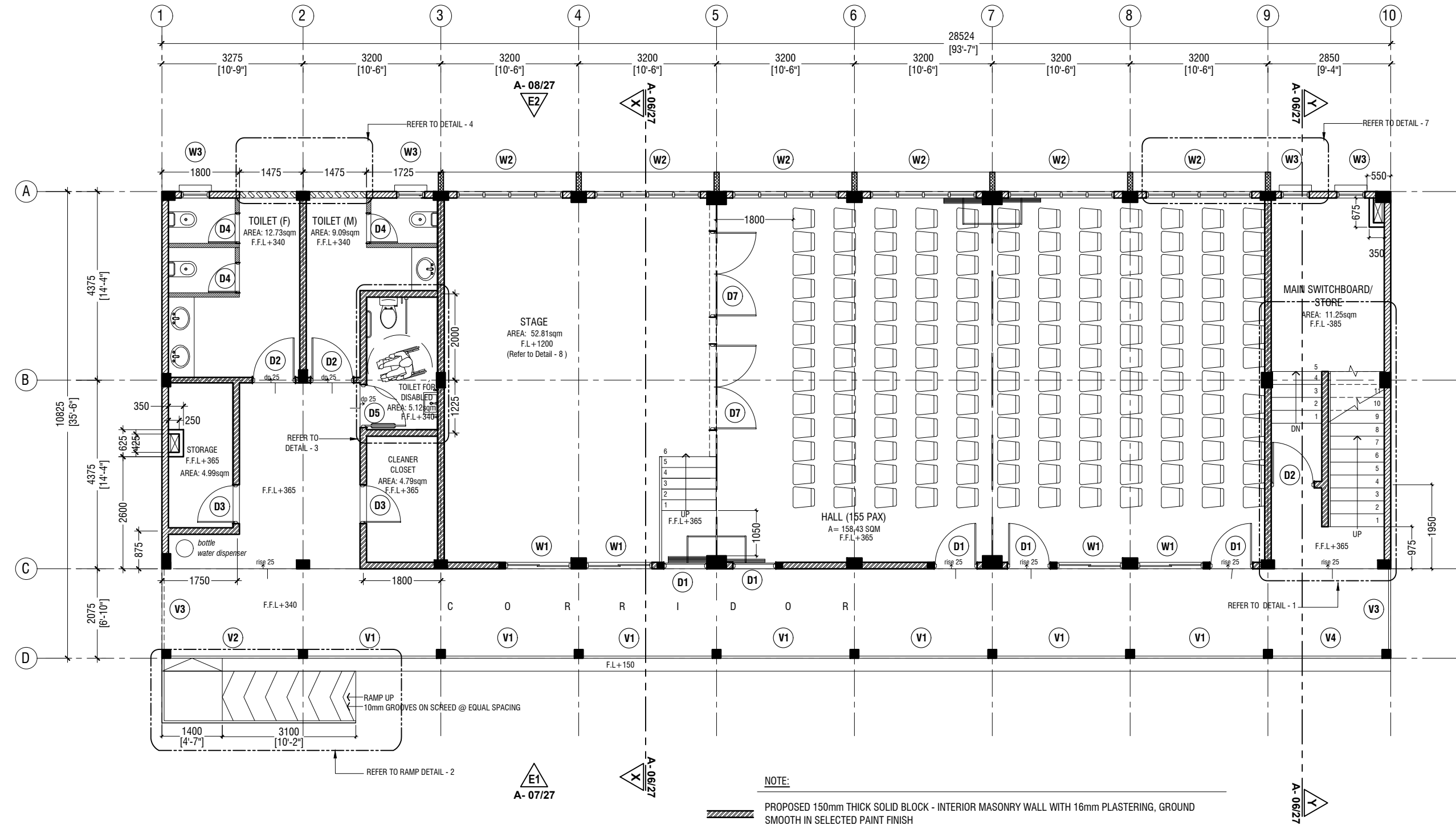


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Title: Ground Floor Plan

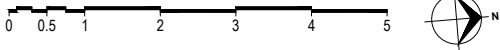
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GROUND FLOOR- TRANSFORMATION PLAN

SCALE 1:100



NOTE:

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M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muhtalib Waleed

Drawn by: Maryam Leevan Jaleel

Services: Jose Julius Alzate & Jeffry Caballo

Interior: -



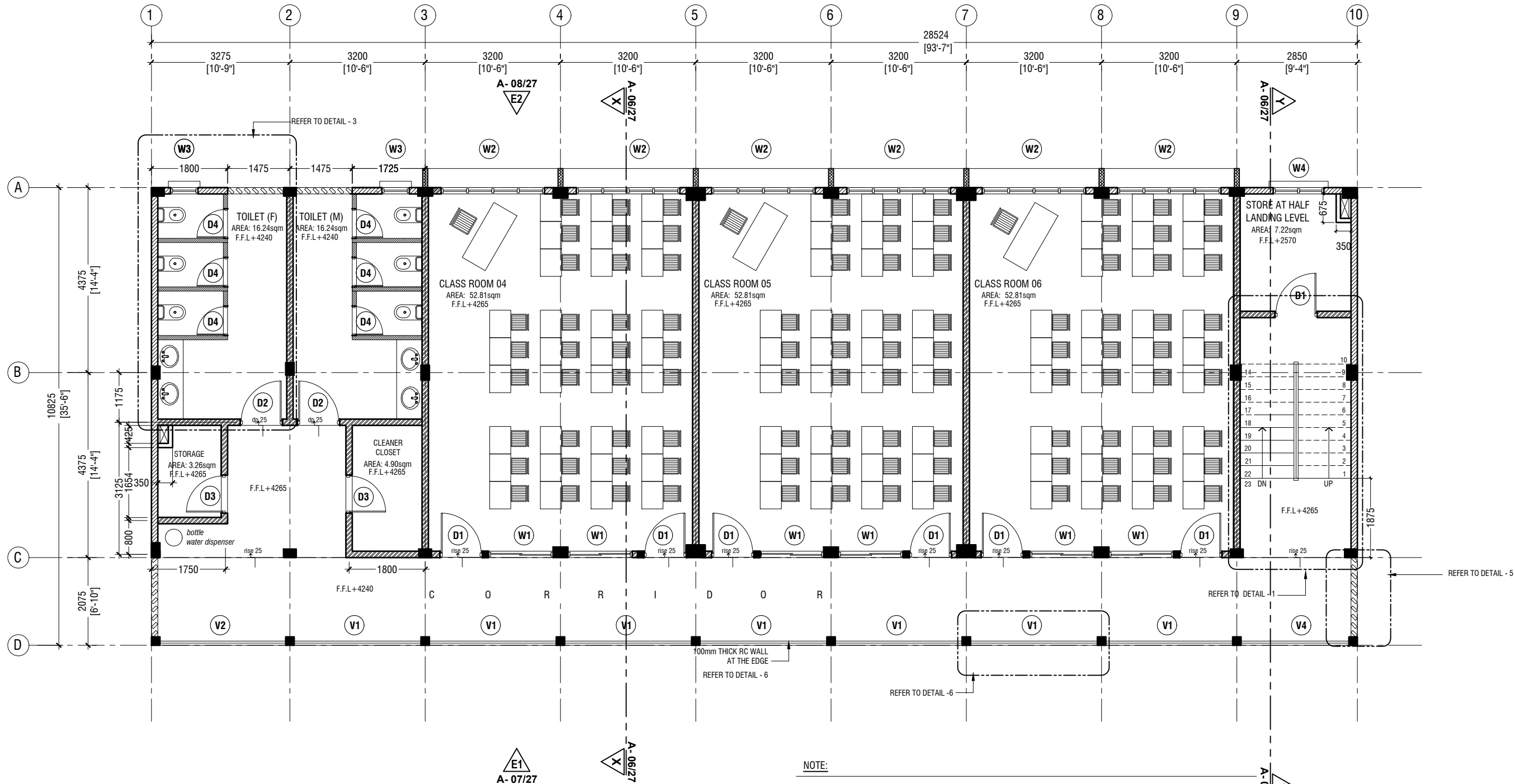
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3rd floor, H. Azum, Ameenemagu, Male'

Title: Ground Floor
Transformation Plan

Page: A-2.1/27

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NOTE:

- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
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M. Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education

Rev no	Date
1	2020/06/27
2	2020/06/27
3	2020/06/27
4	2020/06/27
5	2020/06/27
6	2020/06/27
7	2020/06/27
8	2020/06/27
9	2020/06/27
10	2020/06/27

Project Number: RI/2020/006
Date: April 2021
Architect: Maryam Irasha Shareef
Engineer: Mohamed Muhtalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Jose Julius Alzate & Jeffery Caballo
Interior: -

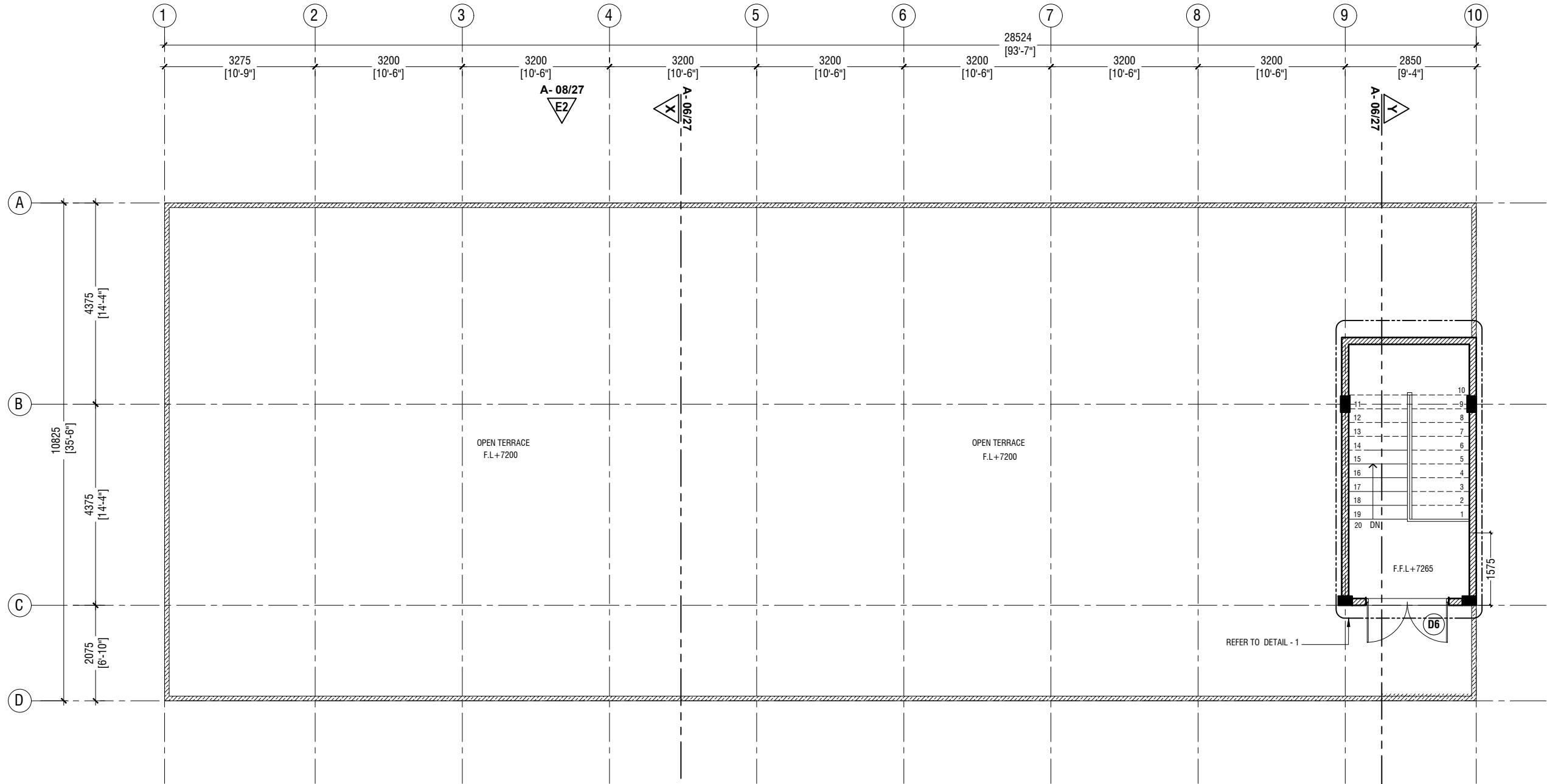


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3rd floor, H. Azum, Ameenemagau, Male'

Title: First Floor Plan

Page: A-03/27



TERRACE FLOOR PLAN

SCALE 1:100



NOTE:

- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
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M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muththalib Waleed

Drawn by: Maryam Leevan Jaleel

Prabhakaran Nadimuthu

Services: Jose Julius Alzate & Jeffrey Caballo

Interior: -



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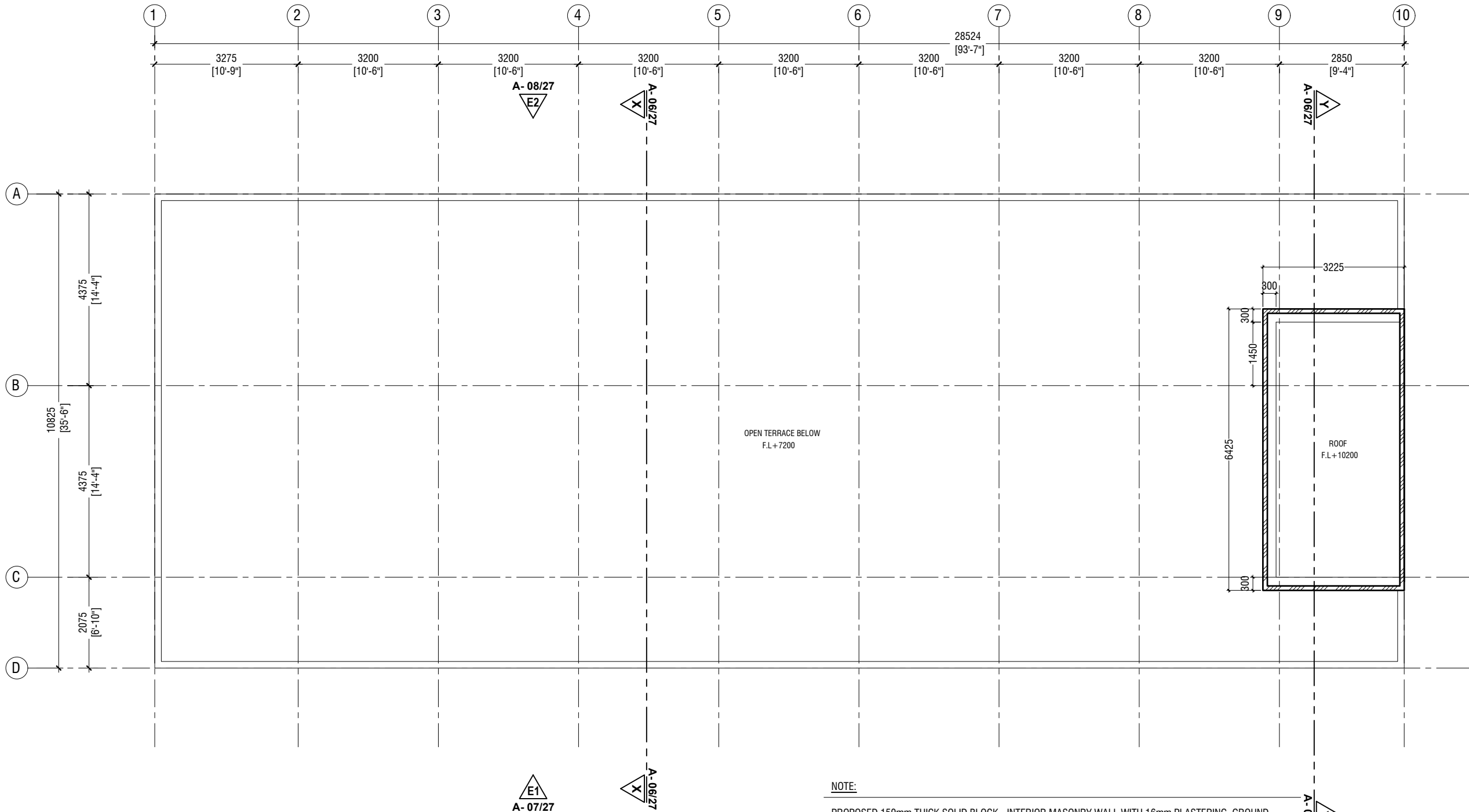
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Title: Terrace Floor Plan

Page: A-04/27

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ROOF PLAN

SCALE 1:100

0 0.5 1 2 3 4 5



NOTE:

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REFER TO ARCHITECT FOR FURTHER ASSISTANCE.

M. Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muhtalib Waleed

Drawn by: Maryam Leevan Jaleel

Prabhakaran Nadrinuthu

Services: Jose Julius Alzate & Jeffry Caballo

Interior: -



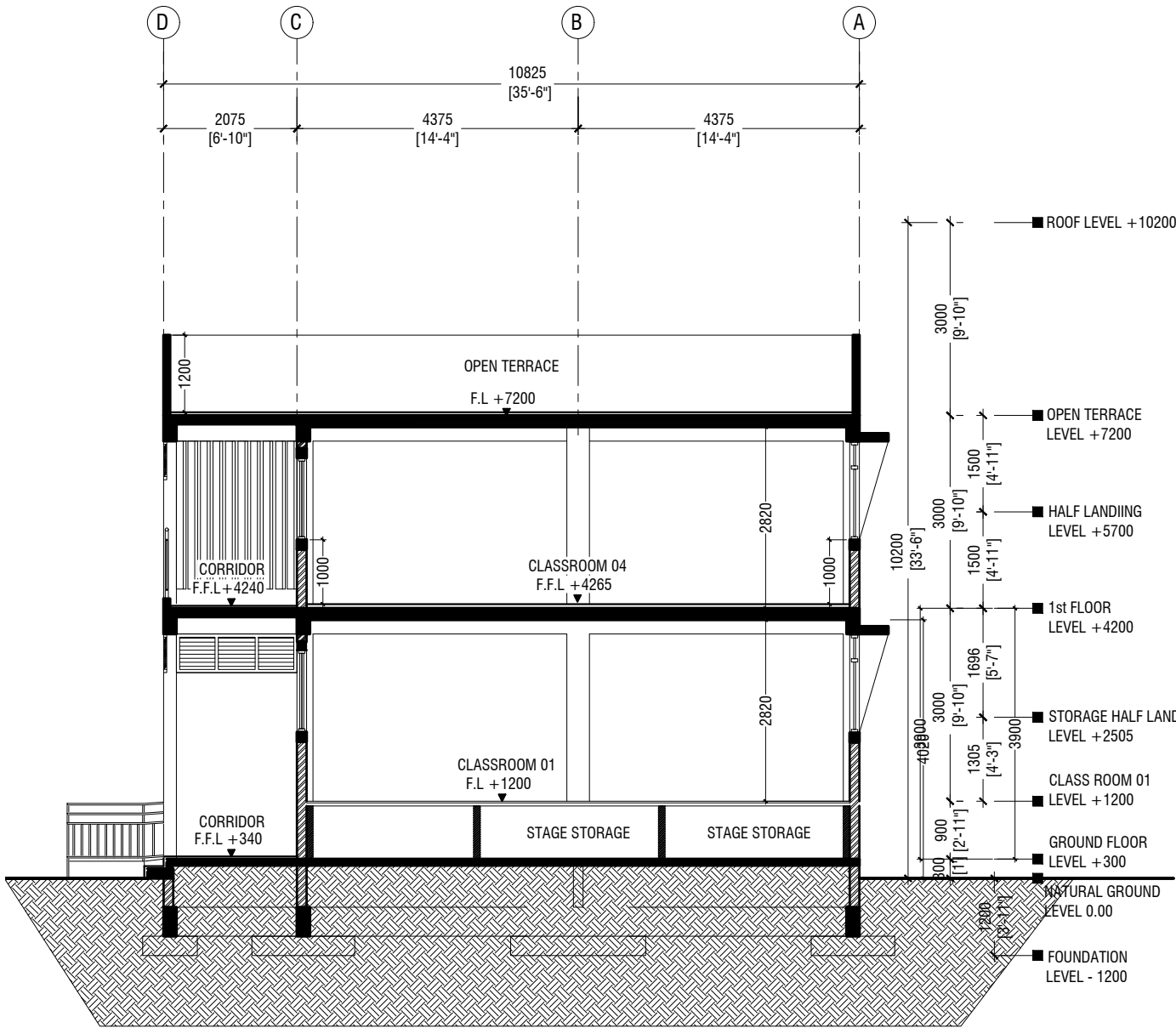
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3rd floor, H. Azum, Ameenemaguu, Male'

Title: Roof plan

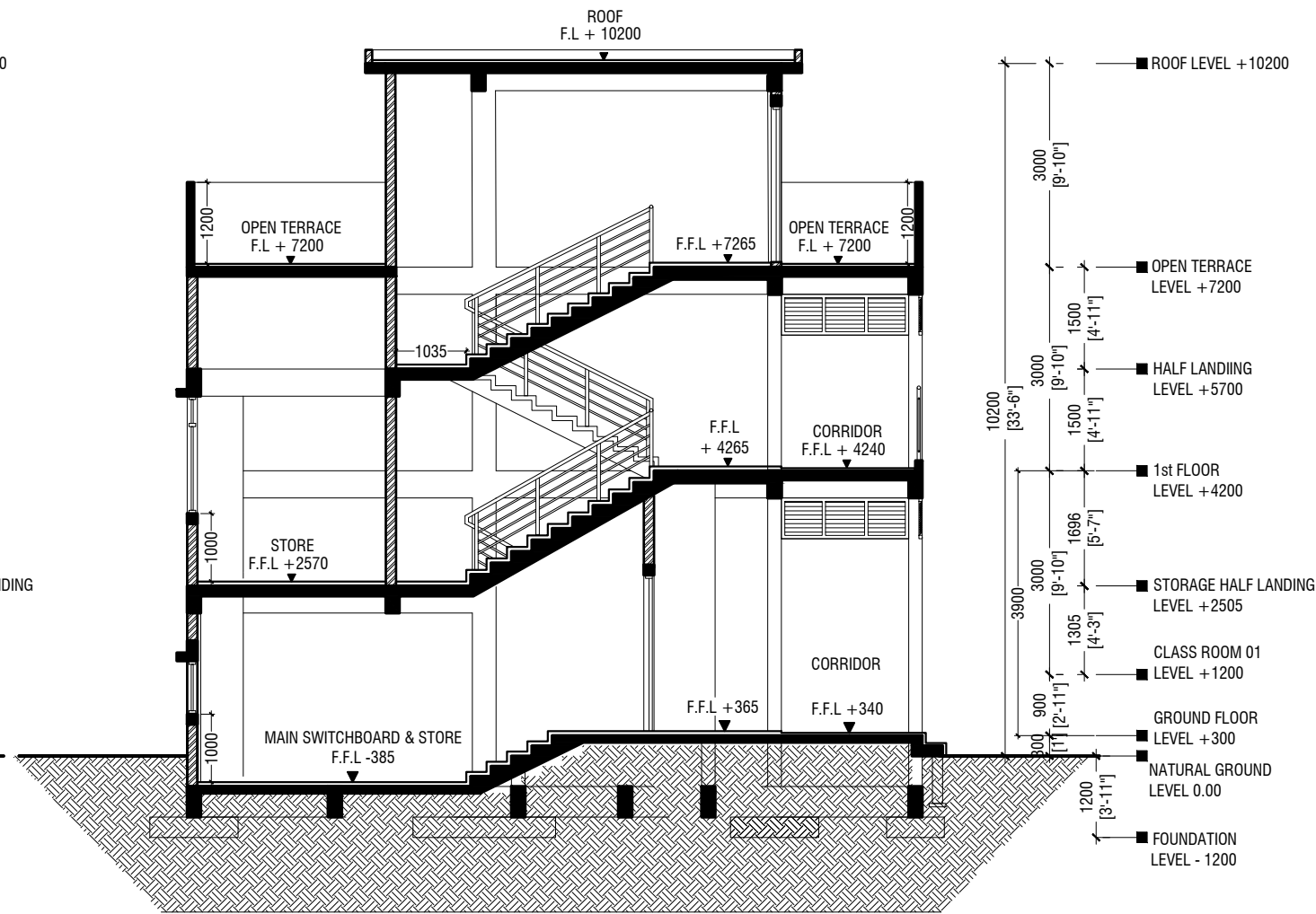
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SECTION X-X

SCALE 1:100



SECTION Y-Y

SCALE 1:100

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: April 2021	--	-----
Architect : Maryam Irasha Shareef	--	-----
Engineer : Mohamed Muhtalib Waleed	--	-----
Drawn by : Maryam Leevan Jaleel	--	-----
Prabhakaran Nadimuthu	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----

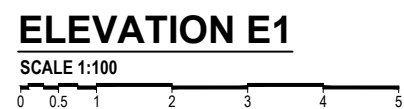


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Title: Section X-X
Section Y-Y

Page: A-06/27



Page: A-07/27



ELEVATION E2

SCALE 1:100



M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Rev no	Date
--	-----
--	-----
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Project Number: RI/2020/006
Date: April 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Muhtalib Waleed
Drawn by: Mariyam Leevan Jaleel
Services: Jose Julius Alzate & Jeffrey Caballo
Interior: -



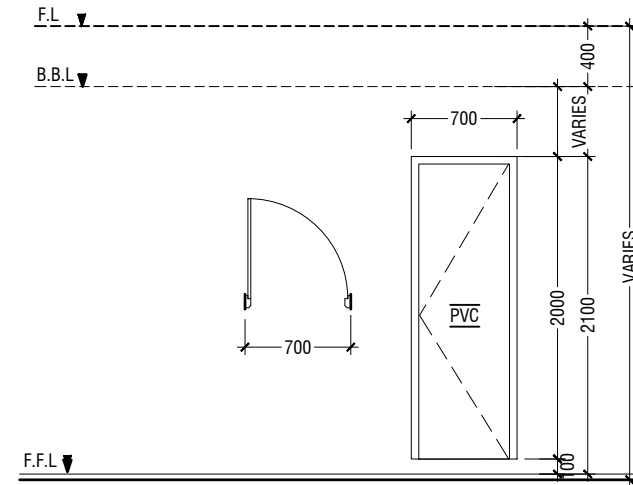
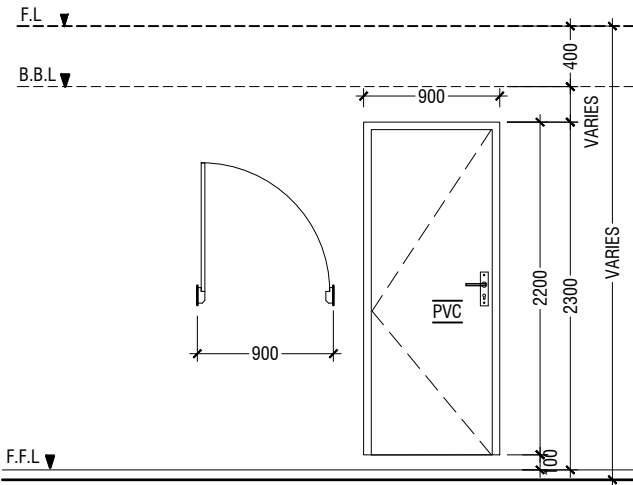
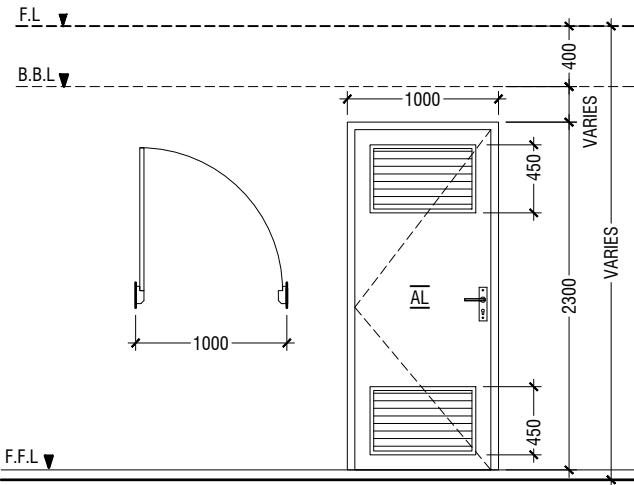
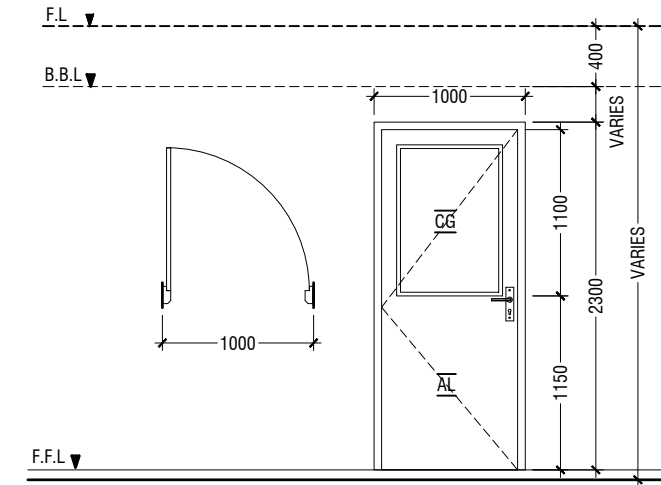
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3rd floor, H. Azum, Ameenemagau, Male'

Title: Elevation - E2

Page: A-08/27

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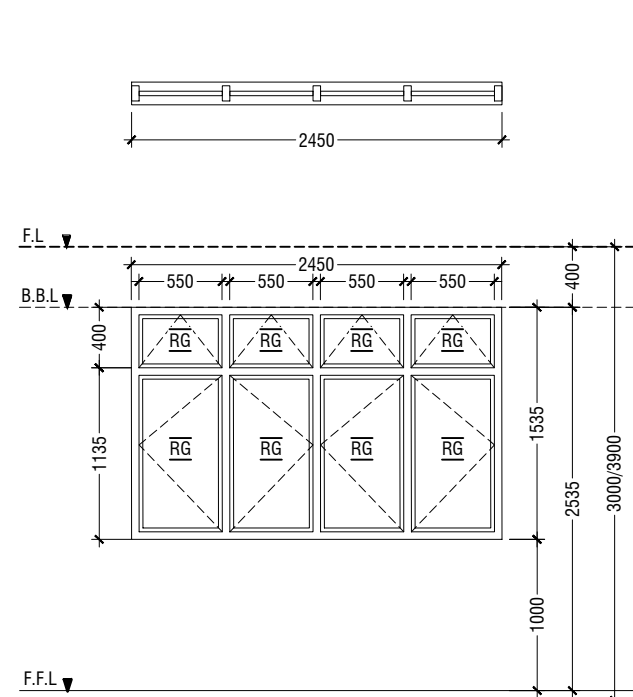
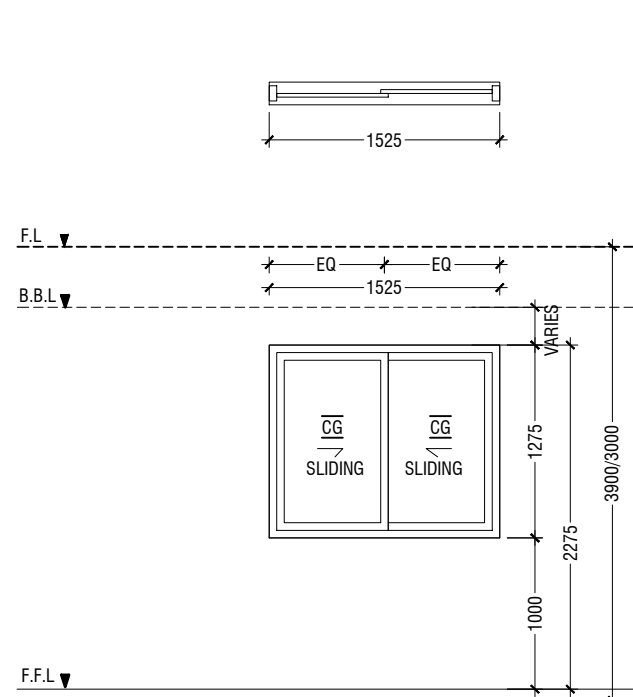
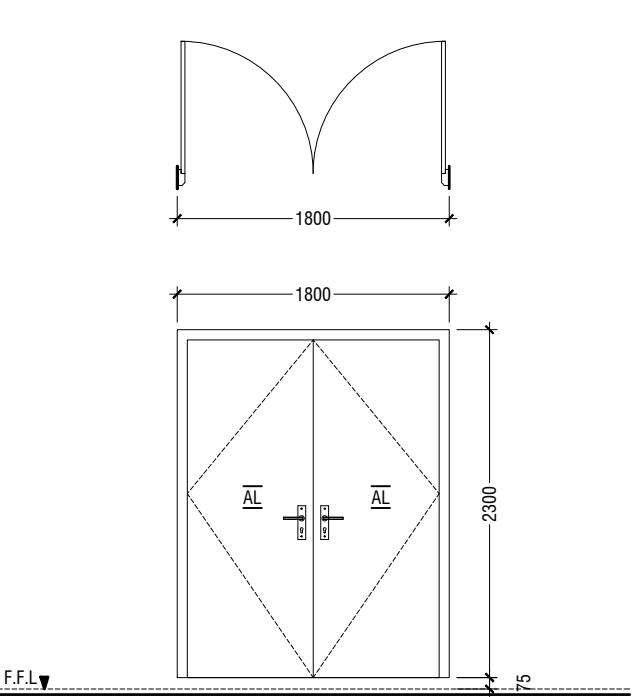
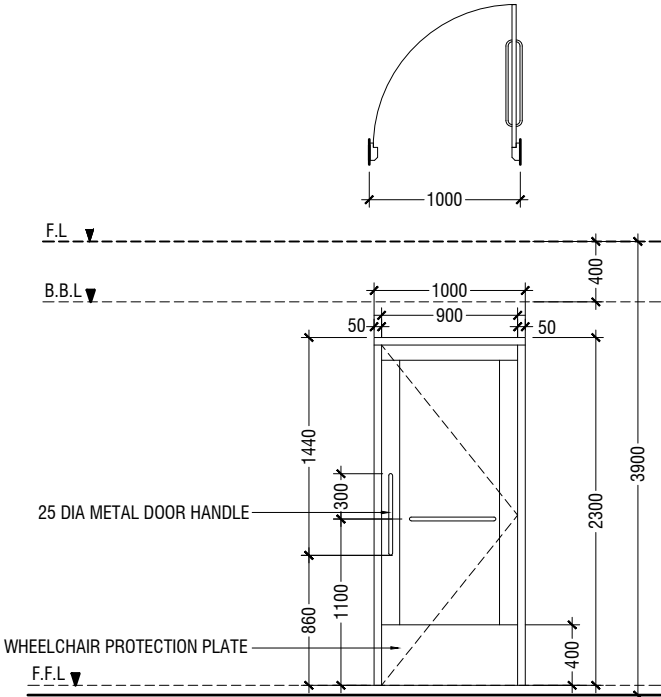


D1	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS & HALF LANDING STORE ROOM
QUANTITY	12 NOS
OPEN AREA	2.03 sqm

D2	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	05 NOS
OPEN AREA	2.03 sqm

D3	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	STORE & CLEANER CLOSET
QUANTITY	04 NOS
OPEN AREA	1.72 SQM

D4	PVC SWING DOOR
REMARKS	PVC WHITE FRAME AND PANEL
LOCATION	TOILETS STALLS
QUANTITY	09 NOS
OPEN AREA	1.17 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

D6	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	TERRACE ENTRANCE
QUANTITY	01 NOS
OPEN AREA	4.05 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	10 NOS
OPEN AREA	0.83 sqm

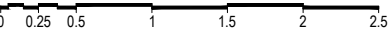
W2	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	CLASSROOMS
QUANTITY	12 NOS
OPEN AREA	3.04 sqm

- NOTE:-
1. FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES
 2. MAINTAIN FLOOR TO WINDOW SILL STANDARD HEIGHT REGULATION OF 1M.
 3. REFER TO ARCHITECT FOR FURTHER ASSISTANCE.
 4. ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
 5. ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
 6. THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM
 7. FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW
 8. FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

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

DOOR & WINDOW SCHEDULE - 1

SCALE 1:50



M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006	Date: April 2021
Architect: Maryam Irasha Shareef	Rev no
Engineer: Mohamed Muhtalib Waleed	Date
Drawn by: Maryam Leevan Jaleel	--
Prabhakaran Nadimuthu	--
Services: Jose Julius Alzate & Jeffry Caballo	--
Interior: -	--



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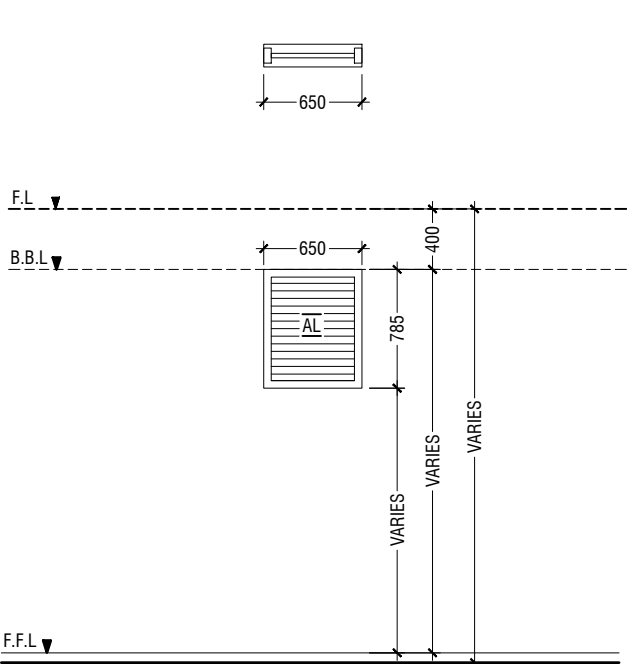
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3rd floor, H. Azum, Ameenemagau, Male'

Title: Door / Window

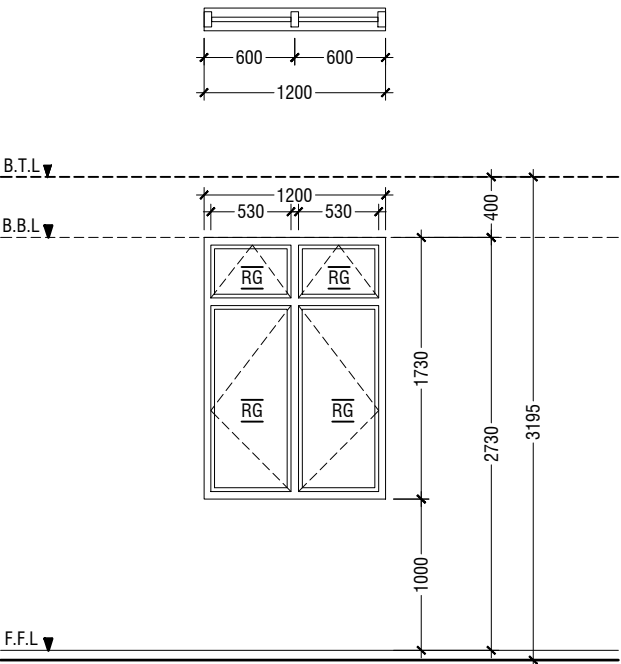
Schedule - 1

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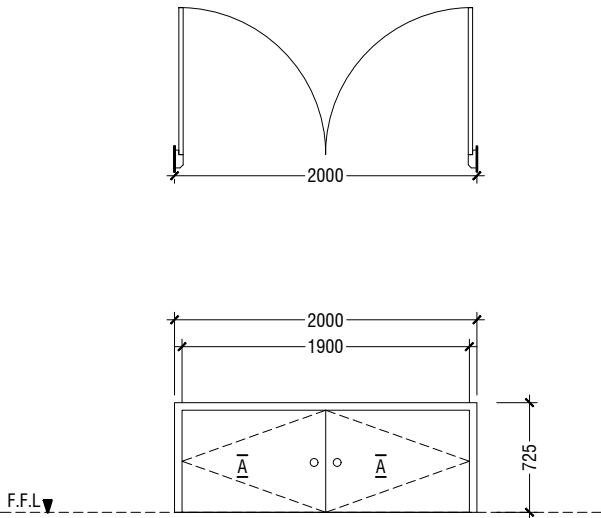
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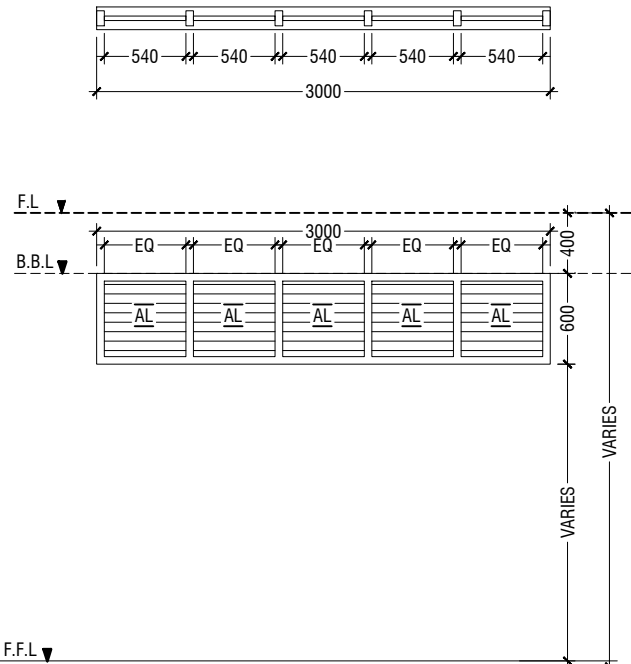
W3	WINDOW WITH ALUMINUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	06 NOS
OPEN AREA	0.38 SQM



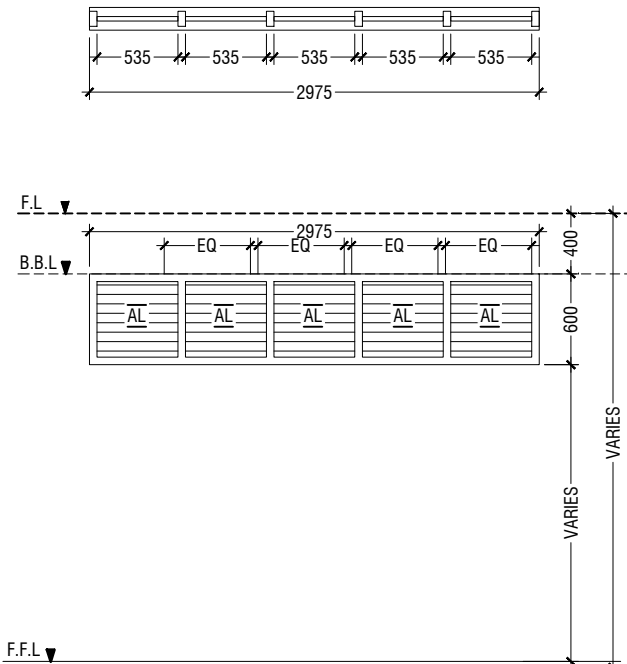
W4	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	HALF LANDING STORE ROOM
QUANTITY	01 NOS
OPEN AREA	1.43 sqm



D7	DOUBLE SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	STAGE STORE ACCESS
QUANTITY	02 NOS
OPEN AREA	1.66 SQM



V1	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	14 NOS
OPEN AREA	1.35 SQM



V2	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	02 NOS
OPEN AREA	1.35 SQM

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

- NOTE:-
1. FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES
 2. MAINTAIN FLOOR TO WINDOW SILL STANDARD HEIGHT REGULATION OF 1M.
 3. REFER TO ARCHITECT FOR FURTHER ASSISTANCE.
 4. ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
 5. ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
 6. THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM ABOVE THE DOOR / WINDOW.
 7. FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW
 8. FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

DOOR & WINDOW SCHEDULE - 2

SCALE 1:50

SCHEDULE OF VENTILATION FOR M.NAALAAFUSHI 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 Classroom 1	52.81	2W1, 2W2 & 1D1	5.28	9.63	18.24%
2 Classroom 2	52.81	2W2 & 2D1	5.28	10.00	18.94%
3 Classroom 3	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
5 Toilet (F)	12.73		W3 & RC FINS		
6 Toilet (M)	9.09		W3 & RC FINS		
7 Toilet for disabled	5.12		Mechanical Ventilation		
8 Main switchboard /store	11.25		Mechanical Ventilation		
First to Second Floor					
1 Classroom 4	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
2 Classroom 5	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
3 Classroom 6	52.81	2W1, 2W2 & 2D1	5.28	11.66	22.08%
5 Toilet (F)	16.24		W3 & RC FINS		
6 Toilet (M)	16.24		W3 & RC FINS		
7 Store at half landing level	7.22	W4	0.72	1.43	19.81%

VENTILATION SCHEDULE

NTS

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006
Date: April 2021
Architect : Maryam Irasha Shareef
Engineer : Mohamed Muhtalib Waleed
Drawn by : Maryam Leevan Jaleel
Services : Jose Julius Alzate & Jeffrey Caballo
Interior : -



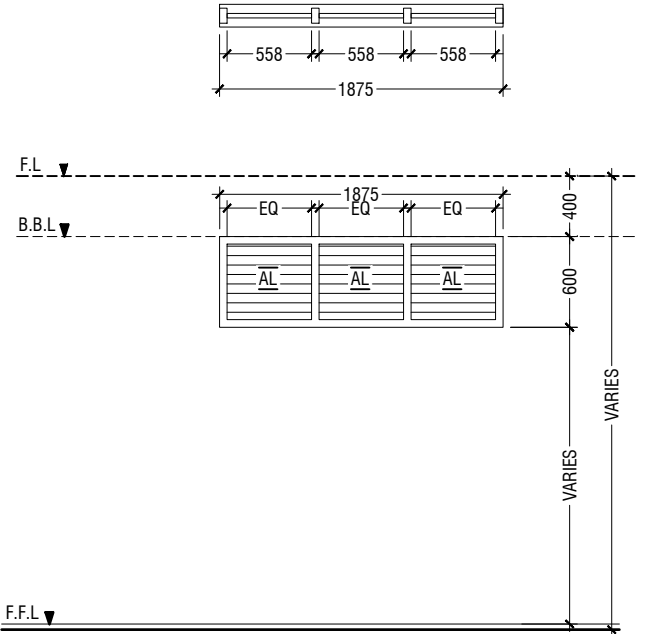
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3rd floor, H. Azum, Ameenemagau, Male'

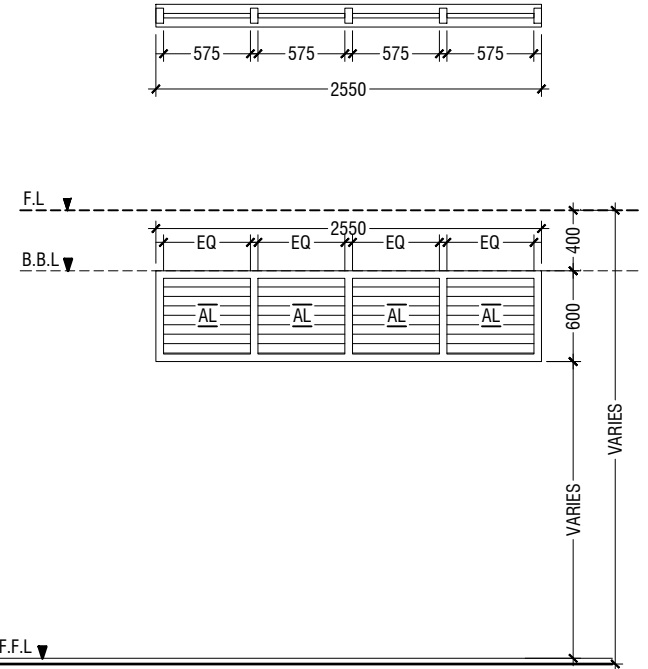
Title: Door/Window Schedule
2 & Ventilation Schedule

Page: A-10/27

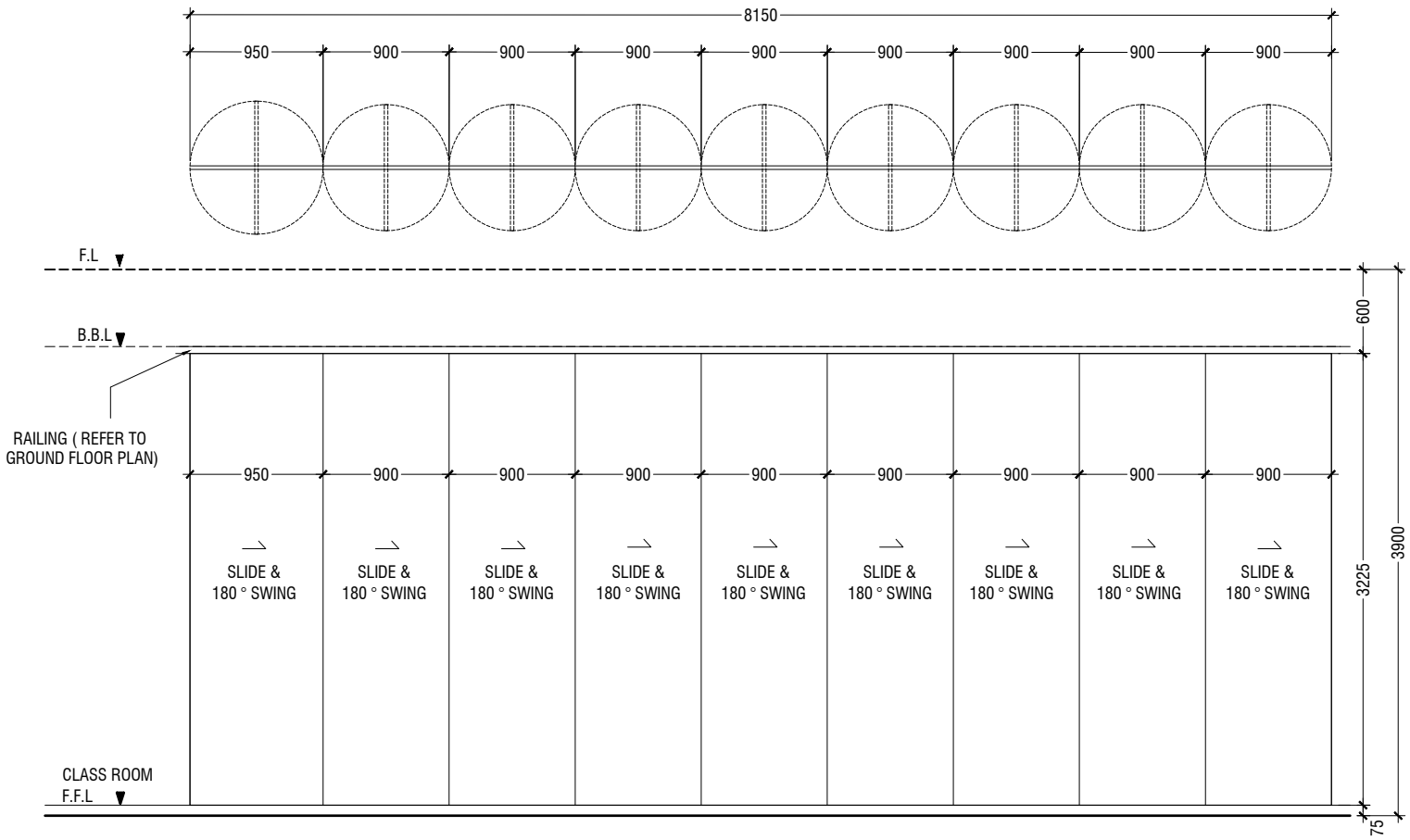
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V3	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	02 NOS
OPEN AREA	0.84 SQM



V4	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	02 NOS
OPEN AREA	1.15 SQM



MD1	MOVABLE PARTITION DOOR
REMARKS	FRAME: 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH RAILING PANEL: 35mm THICK SOLID TIMBER PANEL
LOCATION	GROUND FLOOR - CLASS ROOM 01
QUANTITY	02NOS
OPEN AREA	25.5 sqm

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

- NOTE:-
1. FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES
 2. MAINTAIN FLOOR TO WINDOW SILL STANDARD HEIGHT REGULATION OF 1M.
 3. REFER TO ARCHITECT FOR FURTHER ASSISTANCE.
 4. ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
 5. ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
 6. THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
 7. FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
 8. FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

DOOR & WINDOW SCHEDULE - 3

SCALE 1:50

0 0.25 0.5 1 1.5 2 2.5

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muththailb Waleed

Drawn by : Maryam Leevan Jaleel

Prabhakaran Nadirnuthu

Services : Jose Julius Alzate & Jeffry Caballo

Interior : -

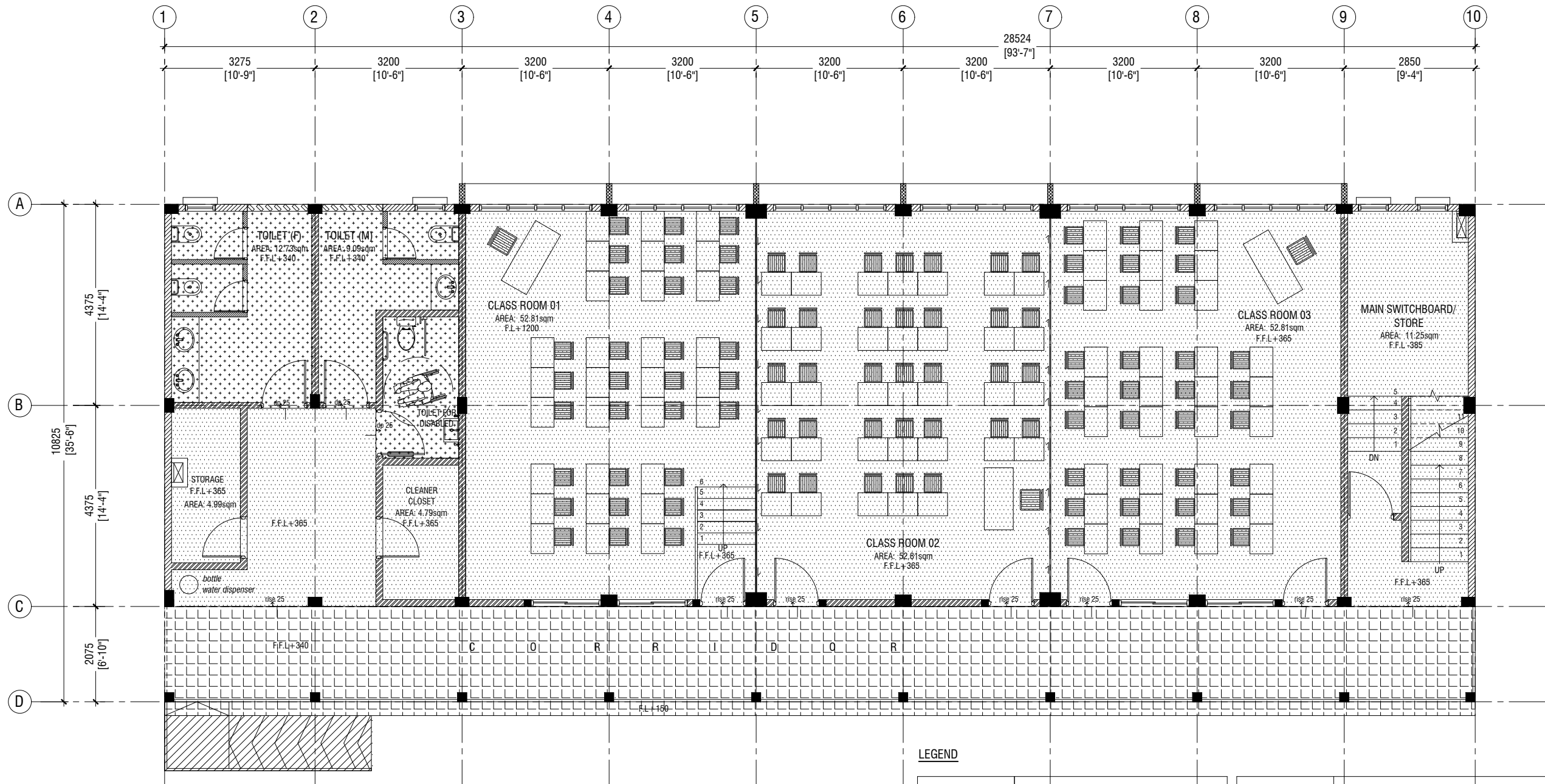


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Title: Doors & Windows Schedule - 3

Page: A-11/27



**GROUND FLOOR
FLOOR FINISHES PLAN**
SCALE 1:100



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)

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB)
STAGE FINISHES : CARPET ON TOP OF HARDWOOD	

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muththalib Waleed

Drawn by: Maryam Leevan Jaleel

Prabhakaran Nadimuthu

Services: Jose Julius Alzate & Jeffry Caballo

Interior: -



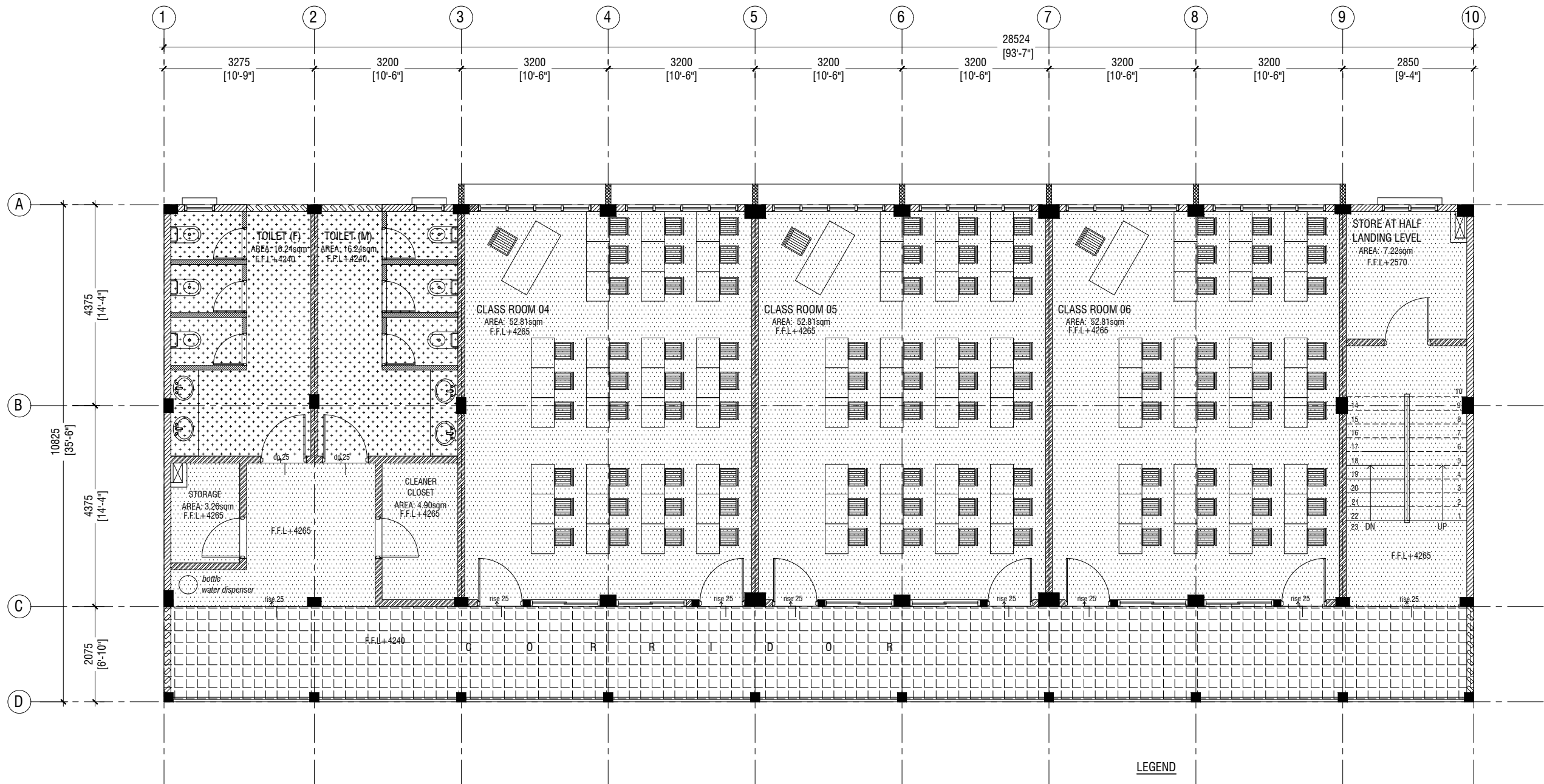
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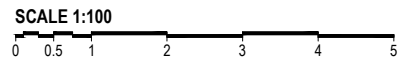
Title: Ground Floor
Floor Finish Plan

Page: A-12/27

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**FIRST FLOOR
FLOOR FINISHES PLAN**



LEGEND

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	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)

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006
Date: April 2021

Architect	: Maryam Irasha Shareef
Engineer	: Mohamed Muhtalib Waleed
Drawn by	: Maryam Leevan Jaleel
Services	: Jose Julius Alzate & Jeffry Caballo
Interior	: -



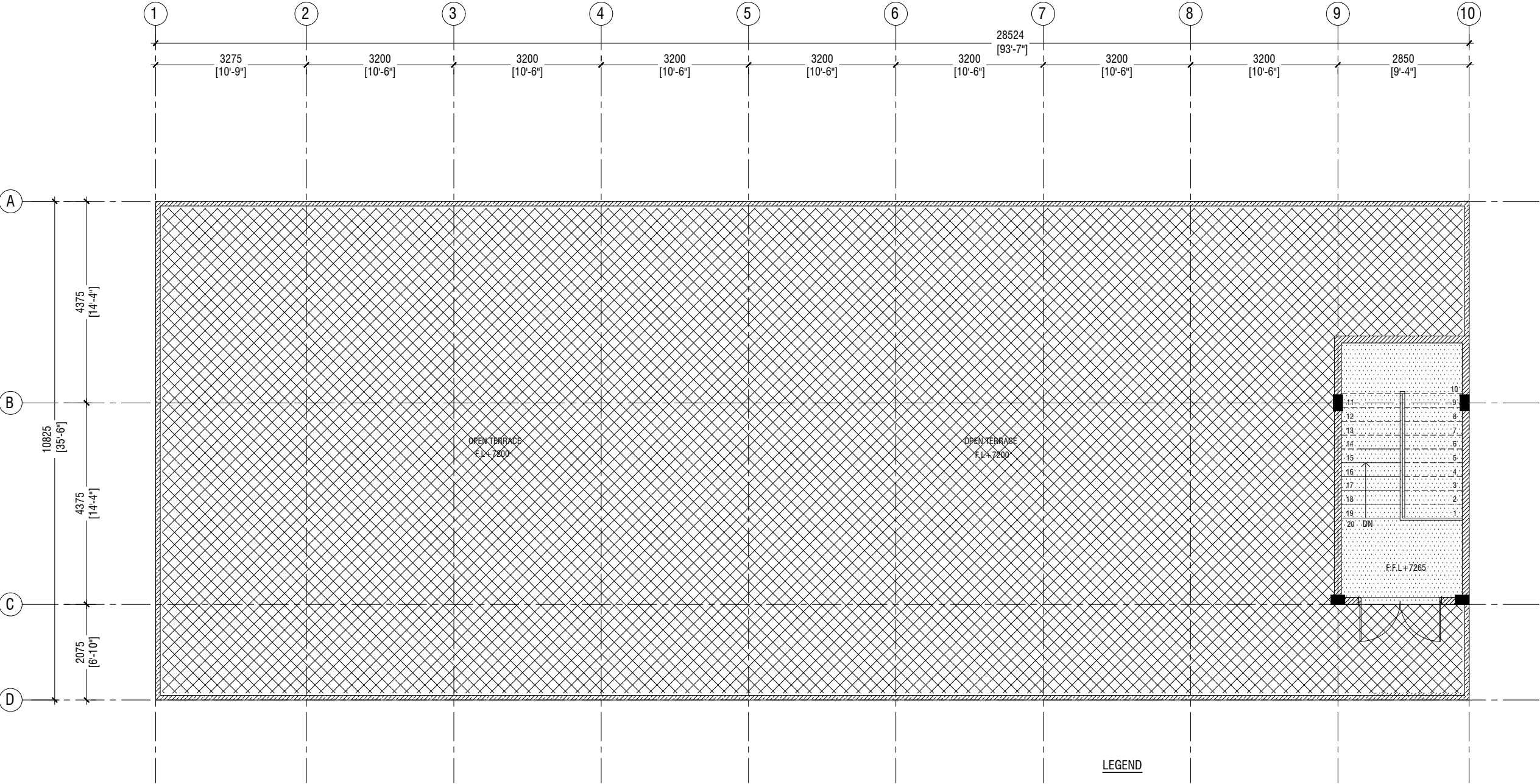
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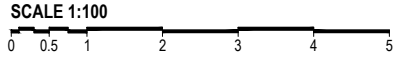
Title: First Floor
Floor Finish Plan

Page: A-13/27

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**TERRACE FLOOR
FLOOR FINISHES PLAN**



LEGEND

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	CEMENT FLOOR SCREED WITH BITUMINOUS WATERPROOFING AGENT

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muhtalib Waleed

Drawn by : Maryam Leevan Jaleel

Prabakaran Nadimuthu

Services : Jose Julius Alzate & Jeffry Caballo

Interior : -



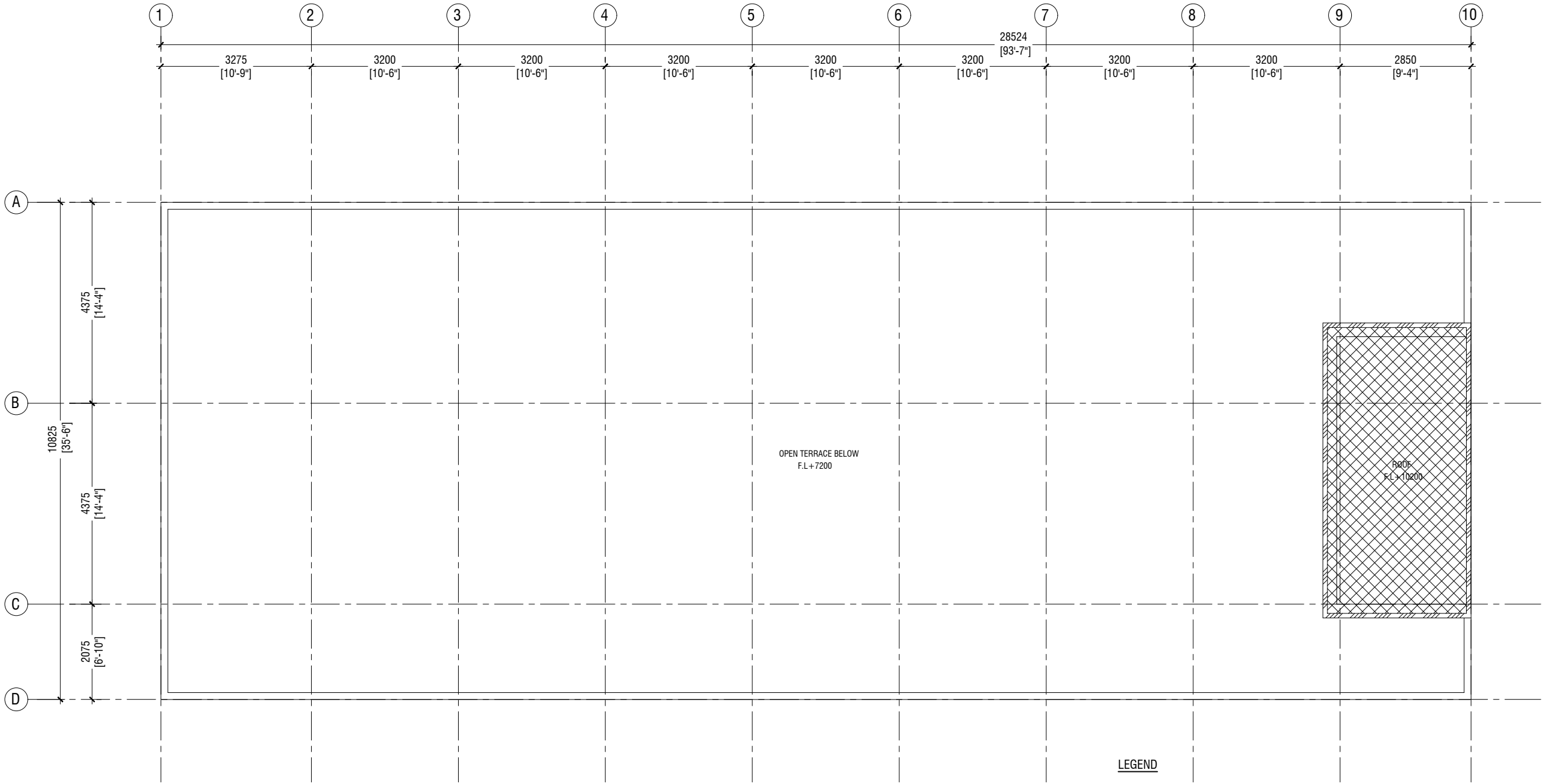
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Title: Terrace Floor Finish
Plan

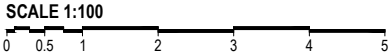
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LEGEND	
	CEMENT FLOOR SCREED WITH BITUMINOUS WATERPROOFING AGENT

ROOF FLOOR FINISHES PLAN



M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: April 2021	--	-----
Architect : Maryam Irasha Shareef	--	-----
Engineer : Mohamed Muhtalib Waleed	--	-----
Drawn by : Maryam Leevan Jaleel	--	-----
Prabakaran Nadimuthu	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----

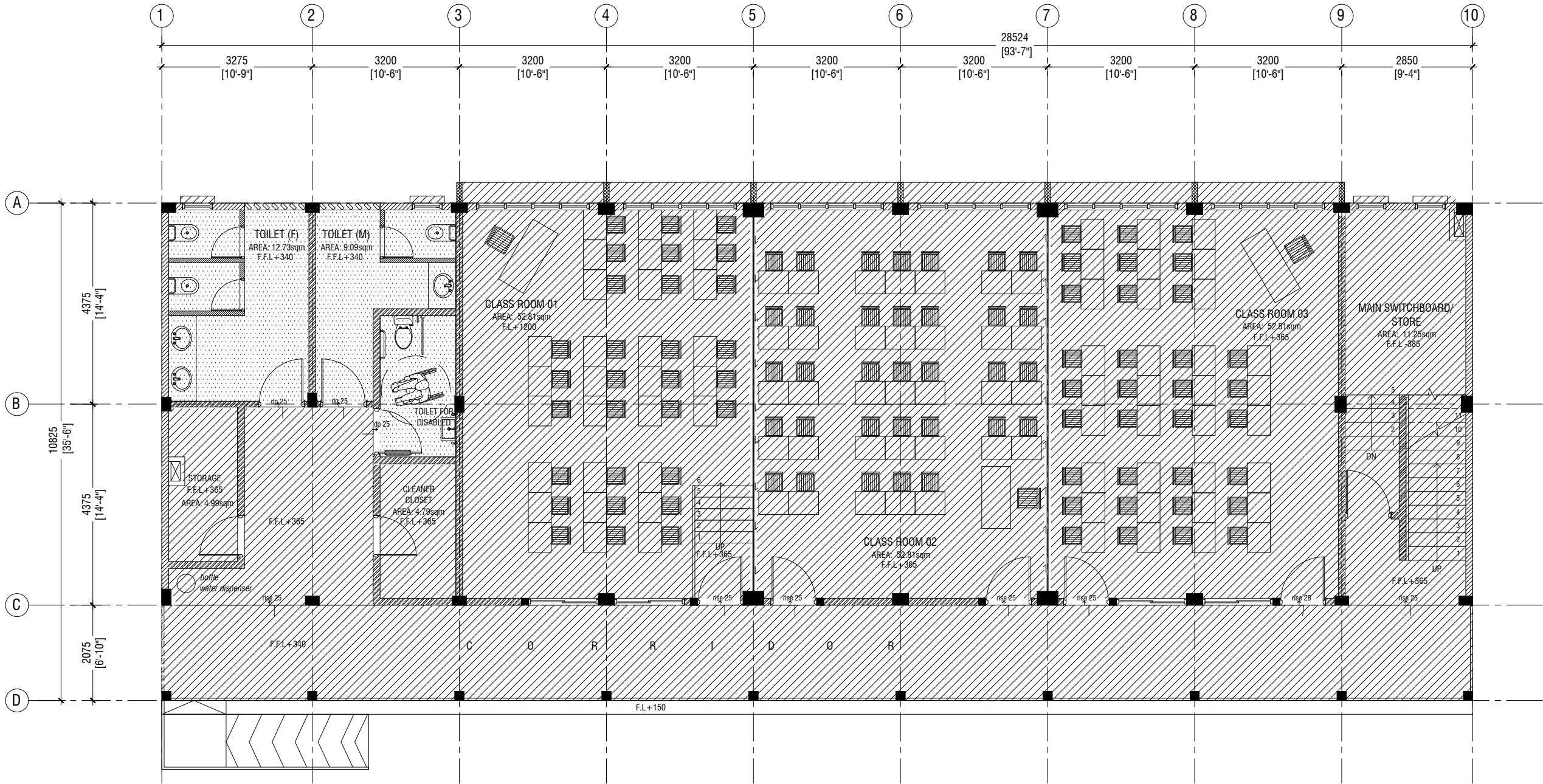


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Title: Roof Floor Finish Plan

Page: A-15/27

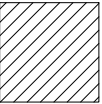



GROUND FLOOR REFLECTED CEILING PLAN

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)
	6mm THICK CEMENT BOARD ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muhtalib Waleed

Drawn by : Maryam Leevan Jaleel

Prabhakaran Nadimuthu

Services : Jose Julius Alzate & Jeffry Caballo

Interior : -



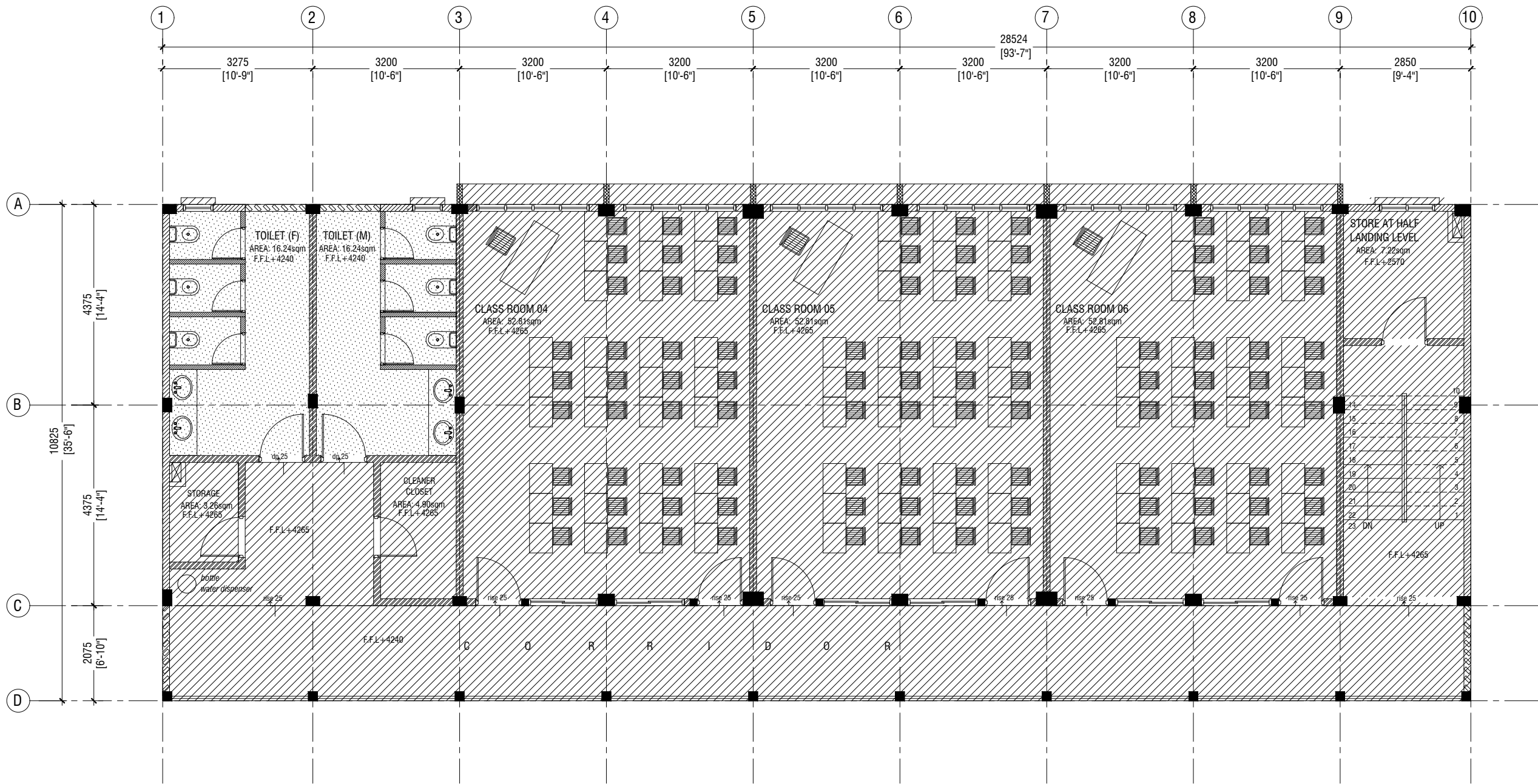
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Title: Ground Floor
Reflected Ceiling Plan

Page: A-16/27

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FIRST FLOOR REFLECTED CEILING PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND

CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE 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)

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muhtalib Waheed

Drawn by: Maryam Leevan Jaleel

Prabhakaran Nadimuthu

Services: Jose Julius Alzate & Jeffry Caballo

Interior: -



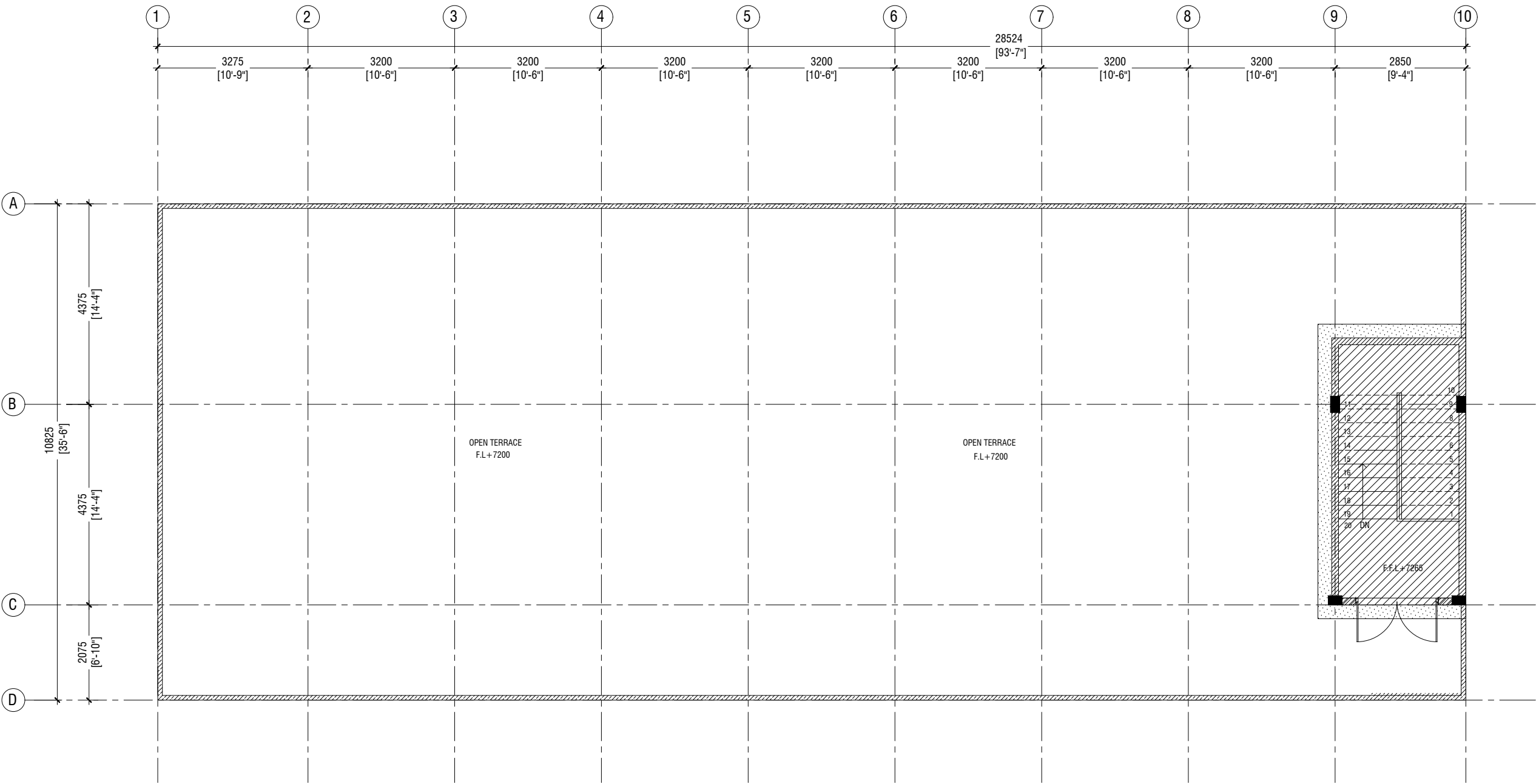
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Title: First Floor
Reflected Ceiling Plan

Page: A-17/27

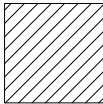
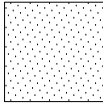
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TERRACE FLOOR REFLECTED CEILING PLAN

SCALE 1:100

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)

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect : Mariyam Irasha Shareef

Engineer : Mohamed Muhtalib Waleed

Drawn by : Mariyam Leevan Jaleel

Prabakaran Nadinurthu

Services : Jose Julius Alzate & Jeffry Caballo

Interior : -



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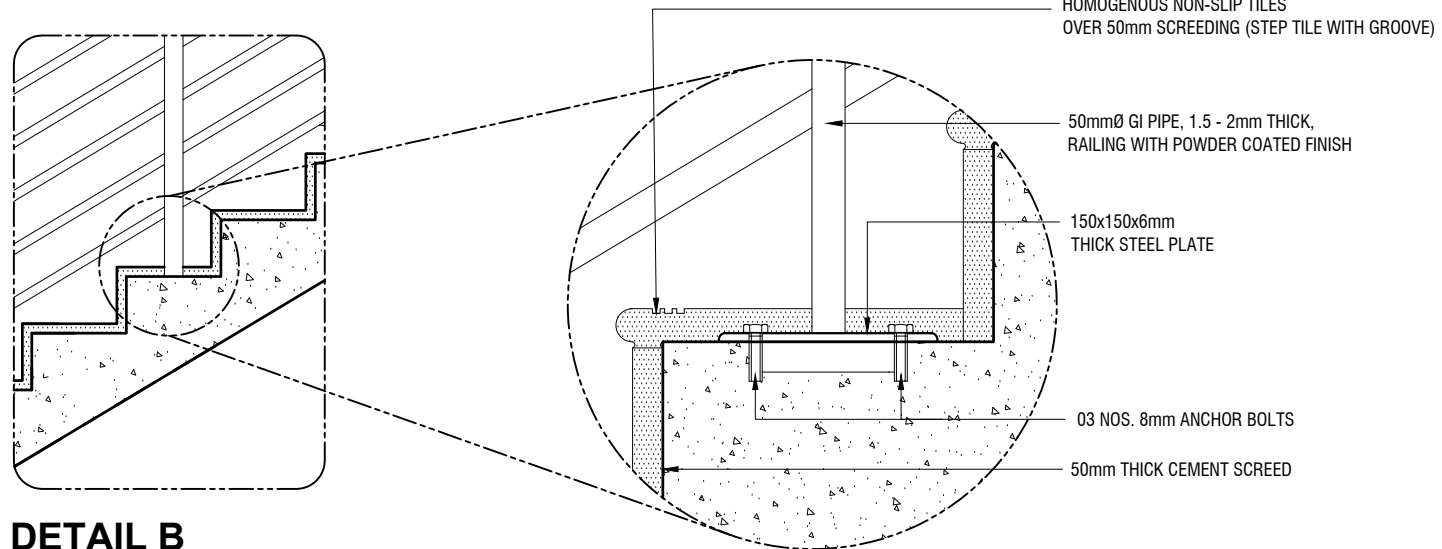
Title: Terrace Floor
Reflected Ceiling Plan

Page: A-18/27

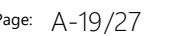
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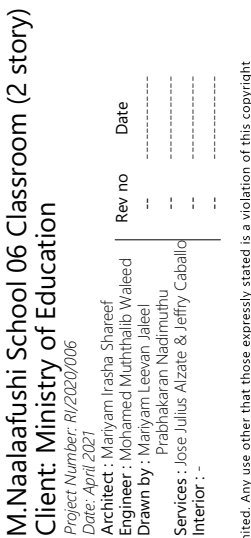
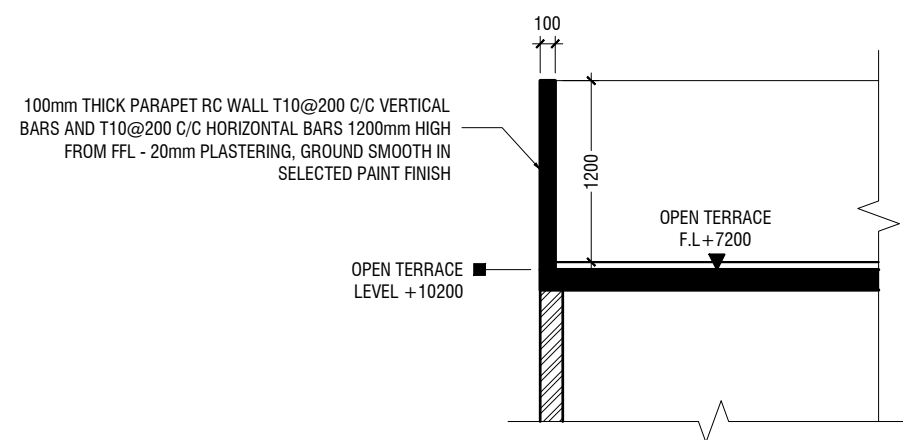
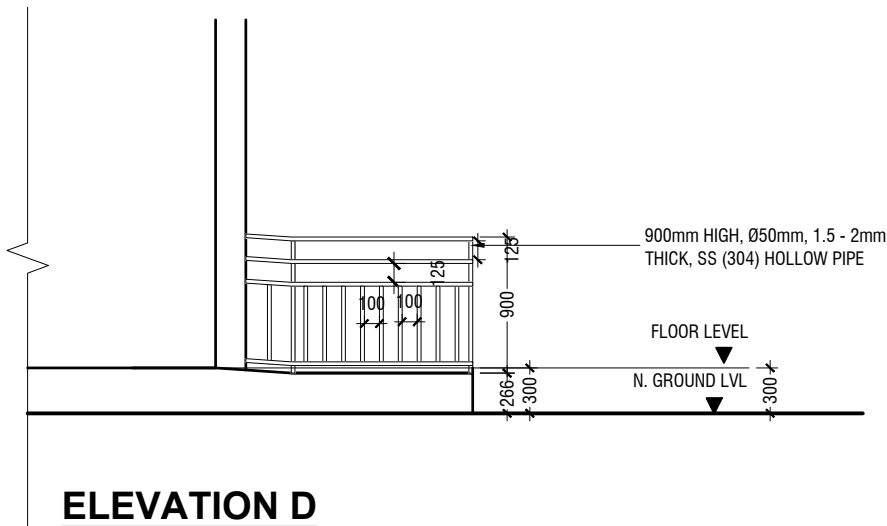


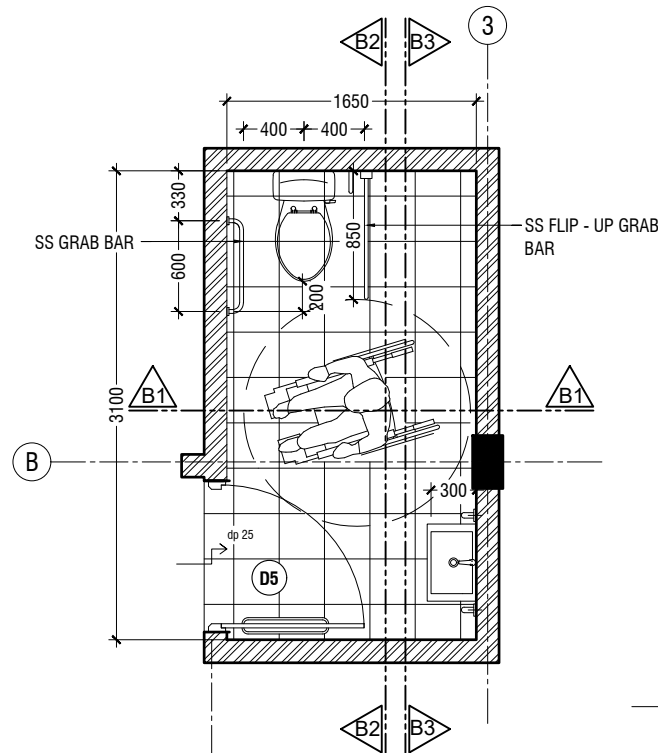
SCALE 1:50



SCALE 1:20

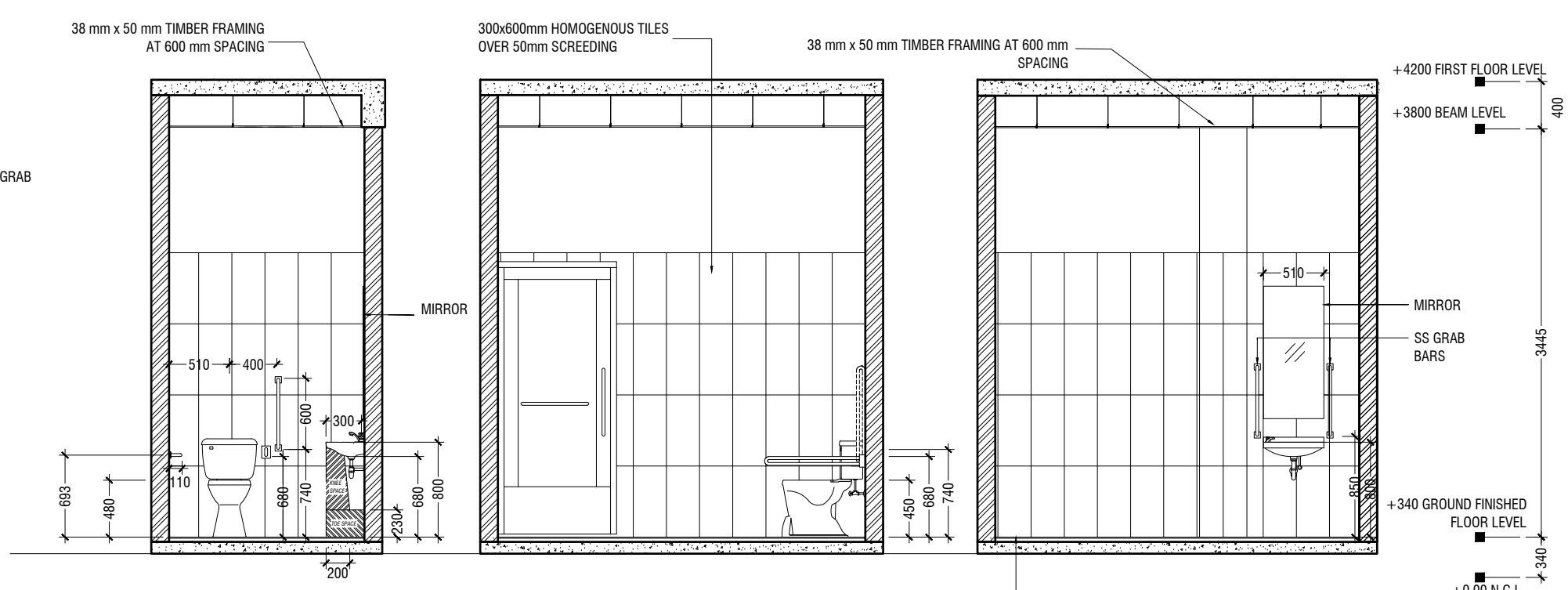






TOILET FOR PERSONS WITH DISABILITIES PLAN

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



SECTION B1-B1

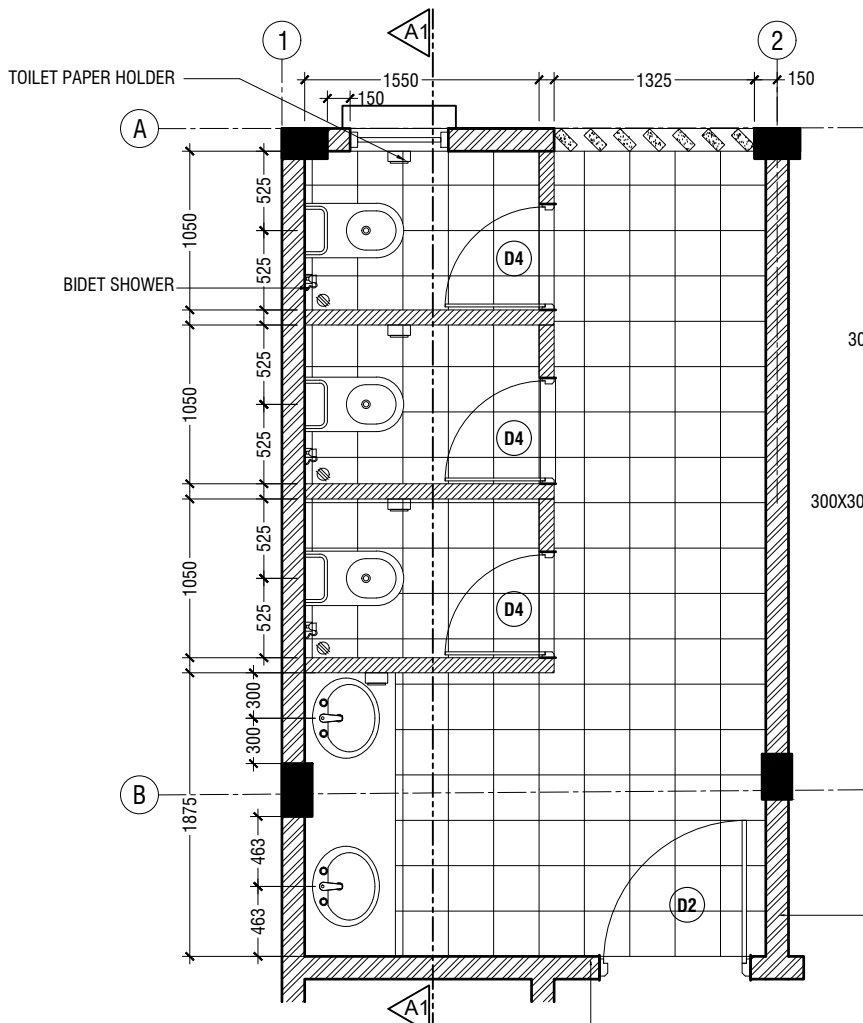
SCALE 1:50
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SECTION B2-B2

SCALE 1:50
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SECTION B3-B3

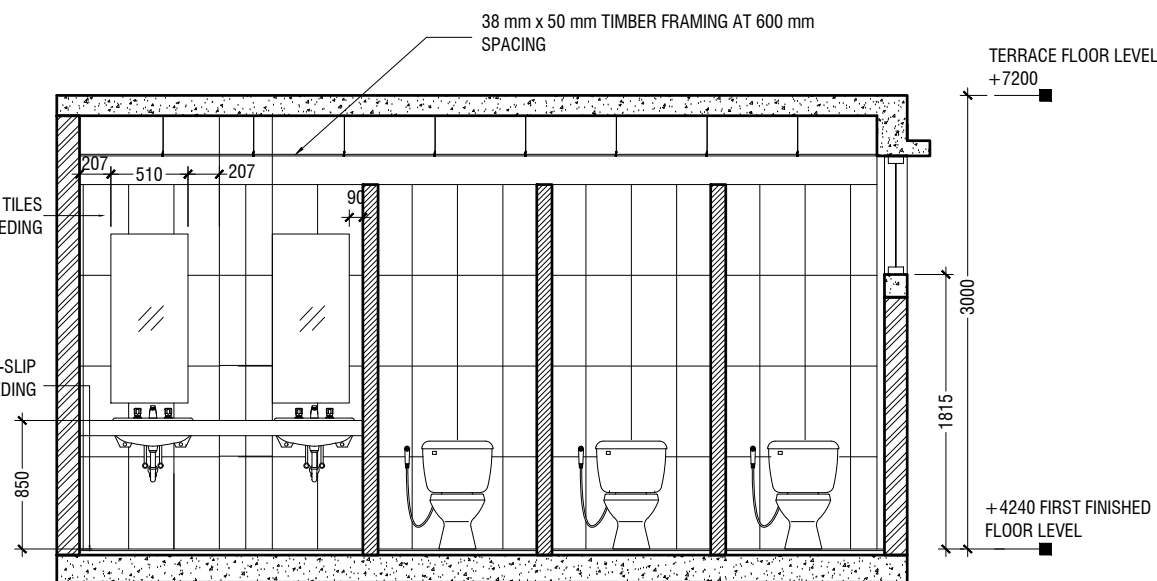
SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



TYPICAL TOILET PLAN

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

300x600mm HOMOGENOUS TILES
OVER 50mm SCREEDING (FULLY TILED
AS THE OTHER WALLS)



SECTION A1-A1

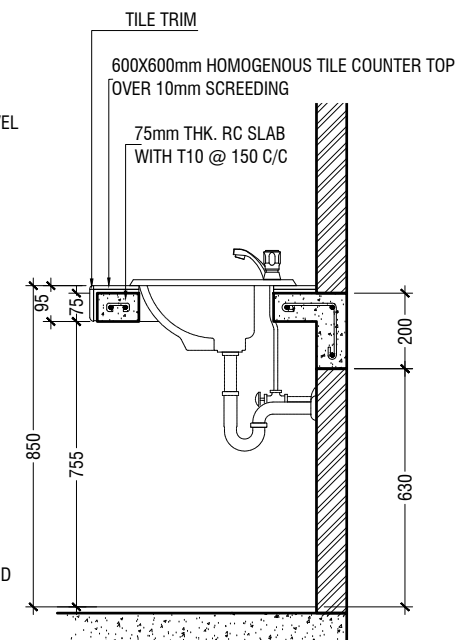
SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

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

**DETAIL - 3
TOILET DETAILS**

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



COUNTER TOP DETAILS

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muhtalib Waleed

Drawn by: Maryam Leevan Jaleel

Prabakaran Nadimuthu

Services: Jose Julius Alzate & Jeffry Caballo

Interior: -

Rev no

Date

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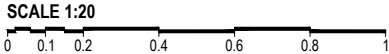
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Title: Detail -3
Toilet Details

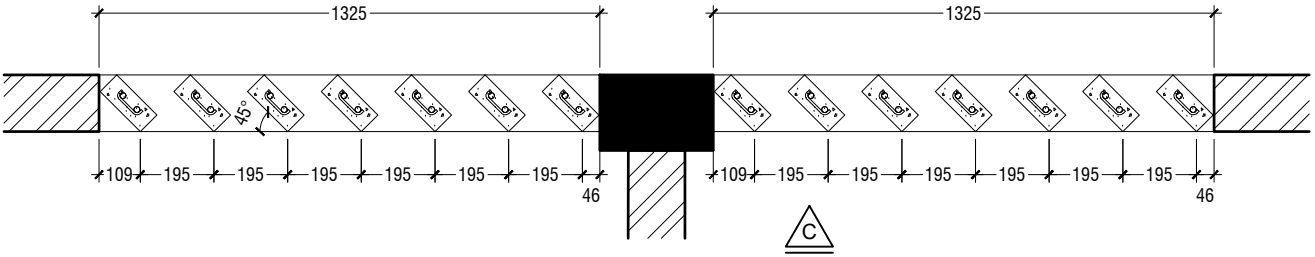
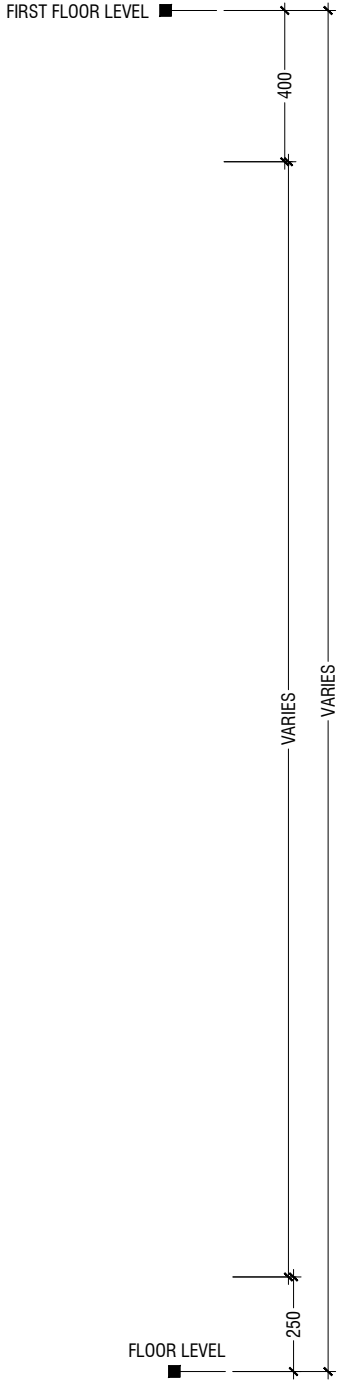
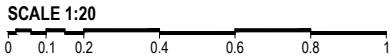
Page: A-21/27

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

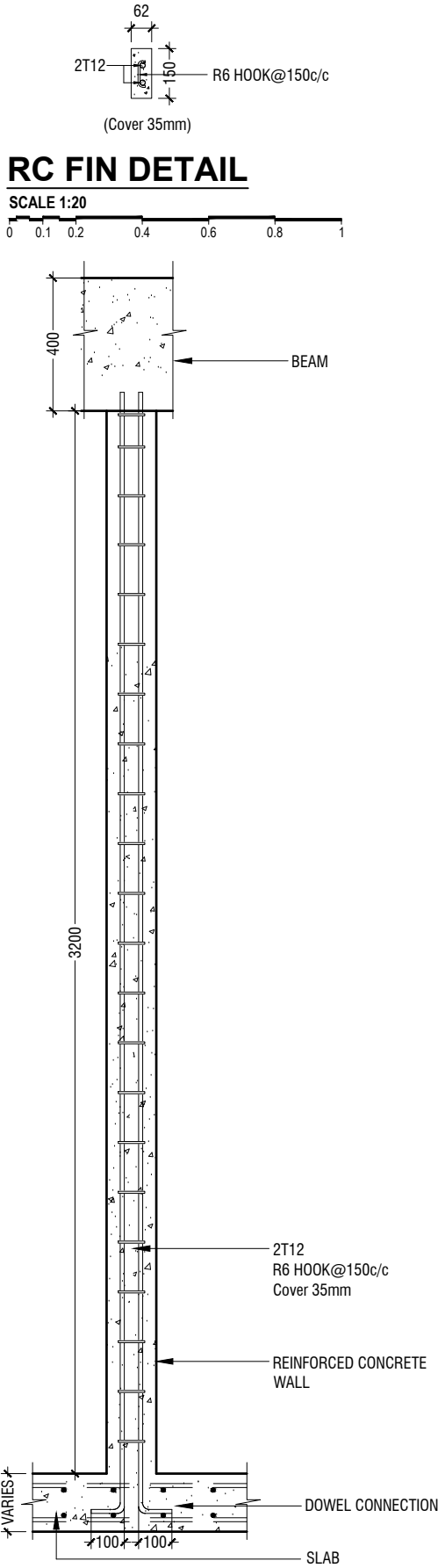
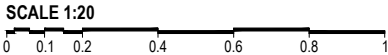
DETAIL - 4
RC FIN DETAILS (TOILET)



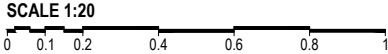
PLAN



ELEVATION - C



SECTION C-C



M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muhtalib Waleed

Drawn by : Maryam Leevan Jaleel

Prabakaran Nadimuthu

Services : Jose Julius Alzate & Jeffry Caballo

Interior : -



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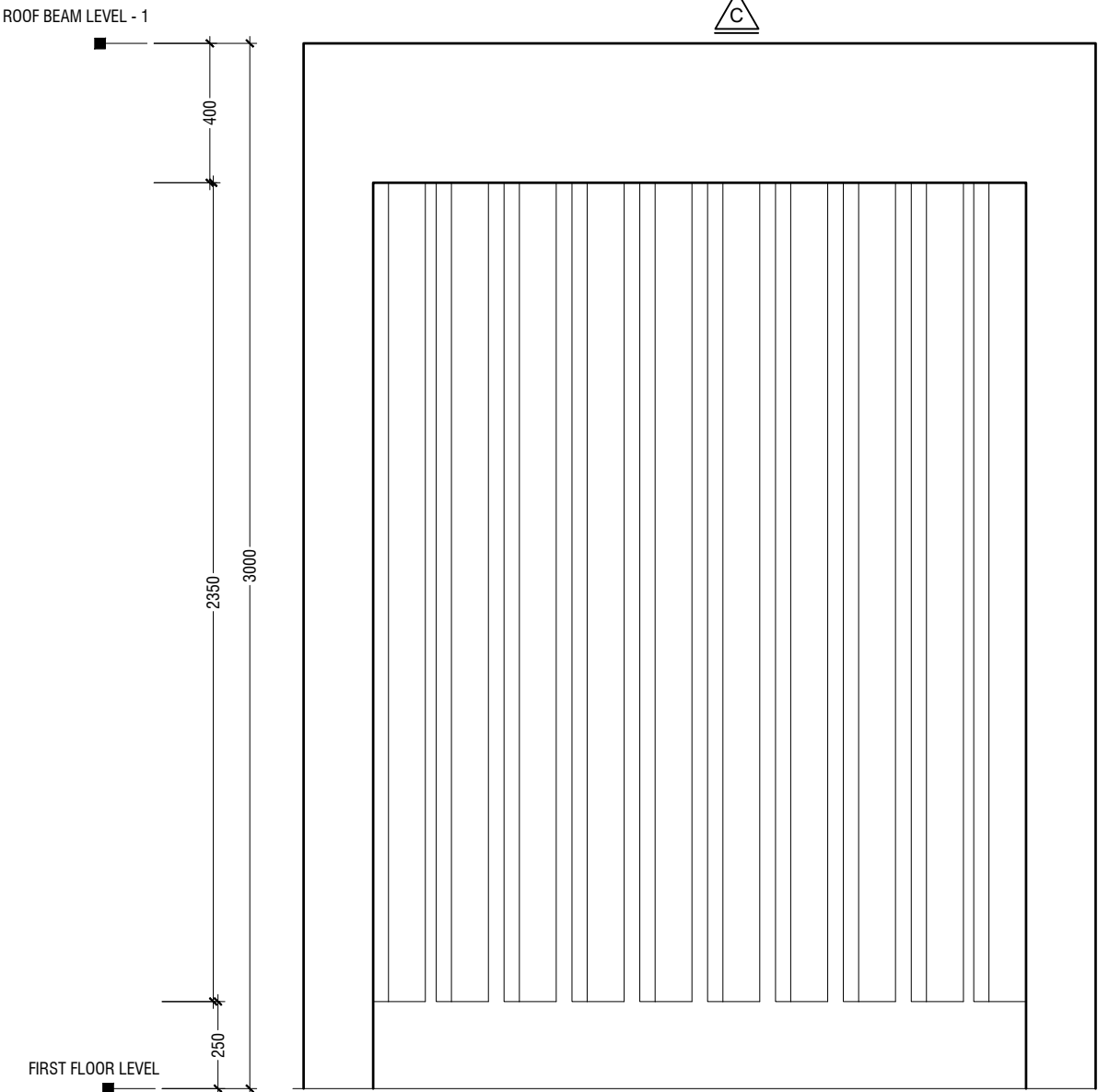
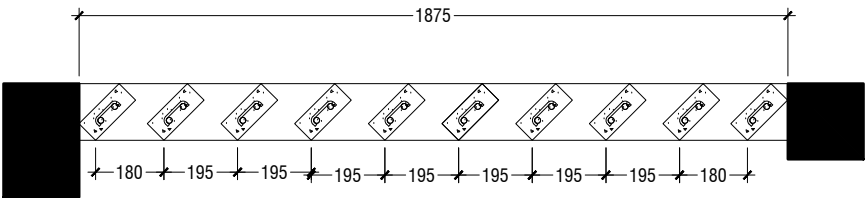
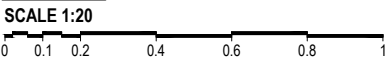
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Title: Detail -4
Rc Fin Details

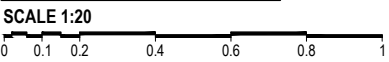
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PLAN

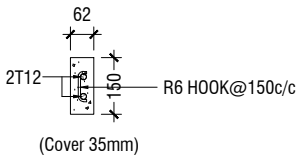
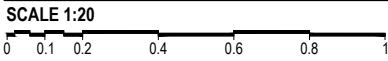


ELEVATION - C

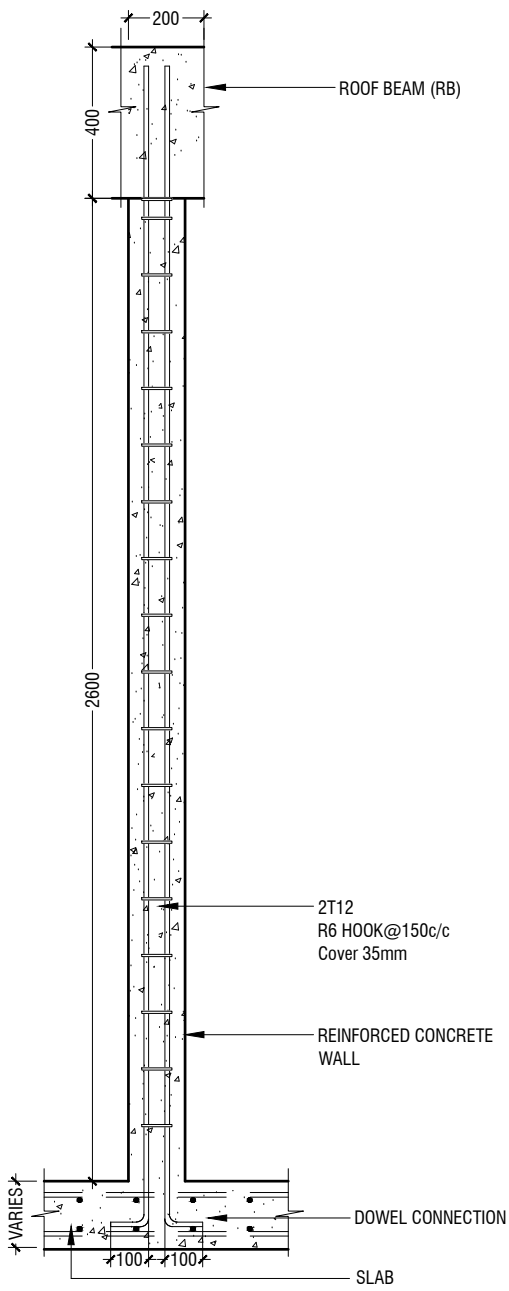
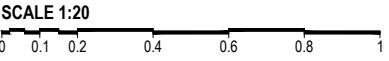


NOTE:-
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES

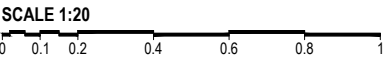
DETAIL - 5
RC FIN DETAILS (CORRIDOR)



RC FIN DETAIL



SECTION C-C



M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: April 2021	--	-----
Architect : Maryam Irasha Shareef	--	-----
Engineer : Mohamed Muhtalib Waleed	--	-----
Drawn by : Maryam Leevan Jaleel	--	-----
Prabakaran Nadimuthu	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----



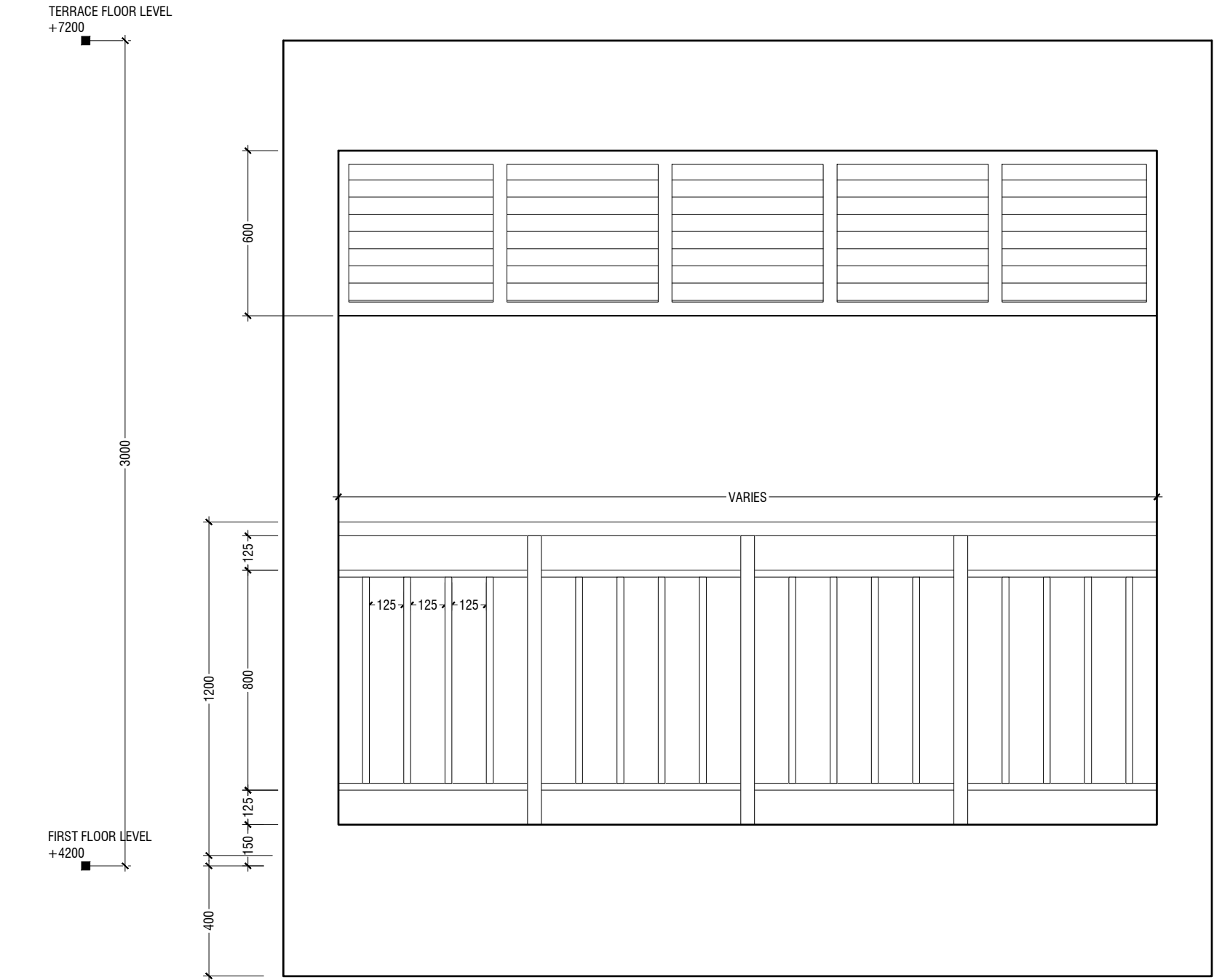
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Title: Detail -5
Rc Fin Details

Page: A-23/27

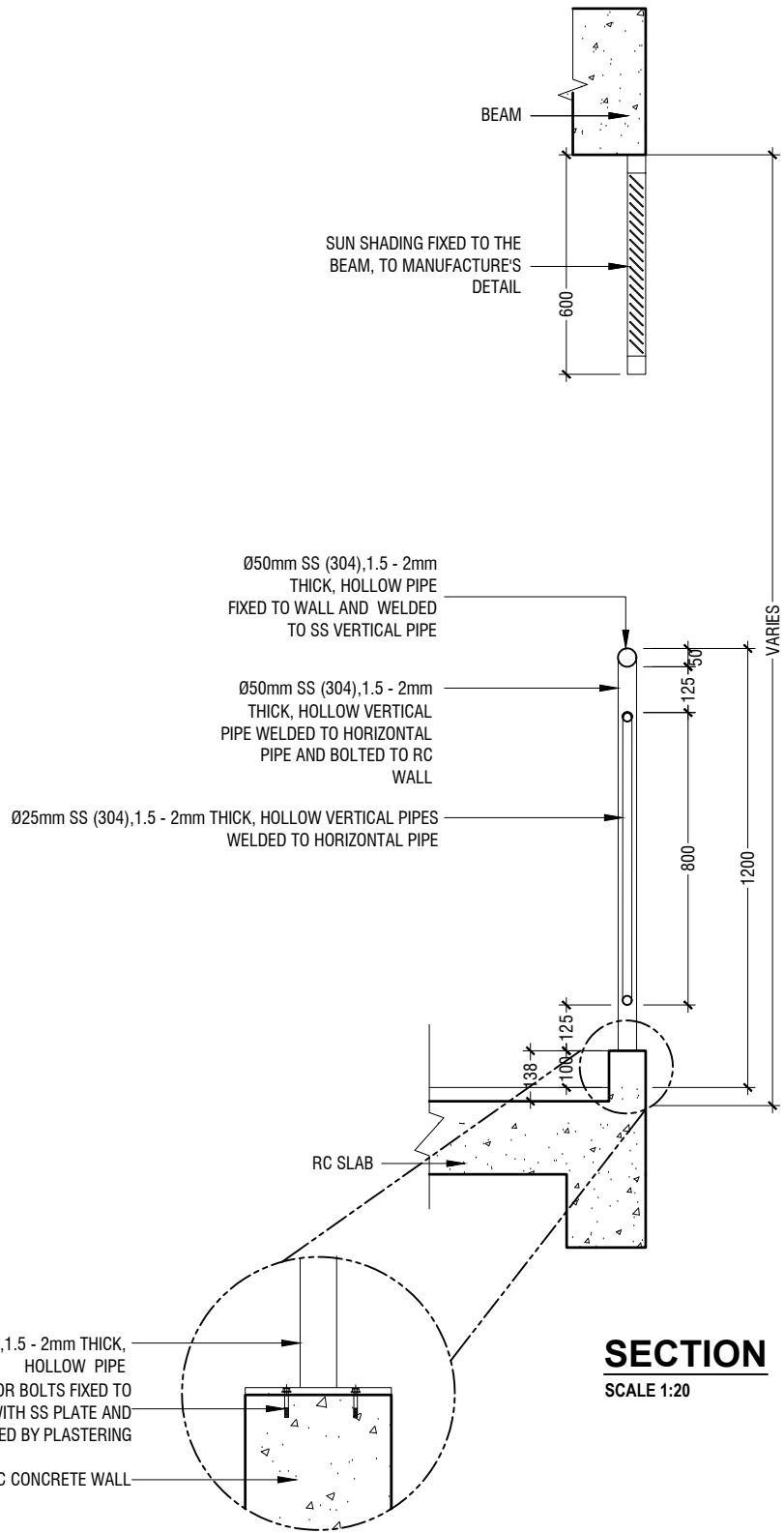
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ELEVATION
SCALE 1:20

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

DETAIL - 6
RAILING DETAILS
SCALE 1:20



SECTION
SCALE 1:20

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muhtalib Waleed

Drawn by: Maryam Leevan Jaleel

Prabakaran Nadimuthu

Services: Jose Julius Alzate & Jeffry Caballo

Interior: -



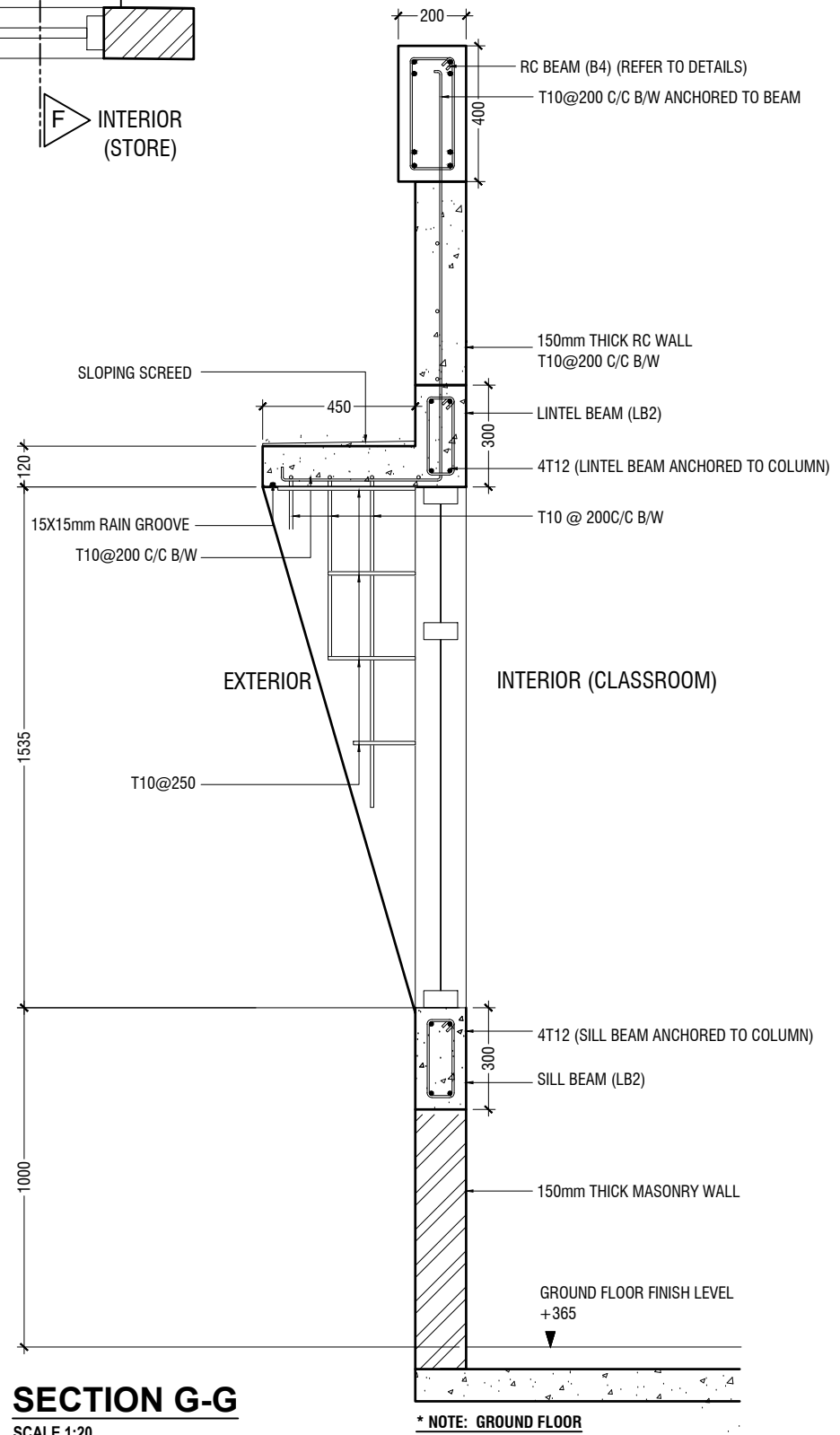
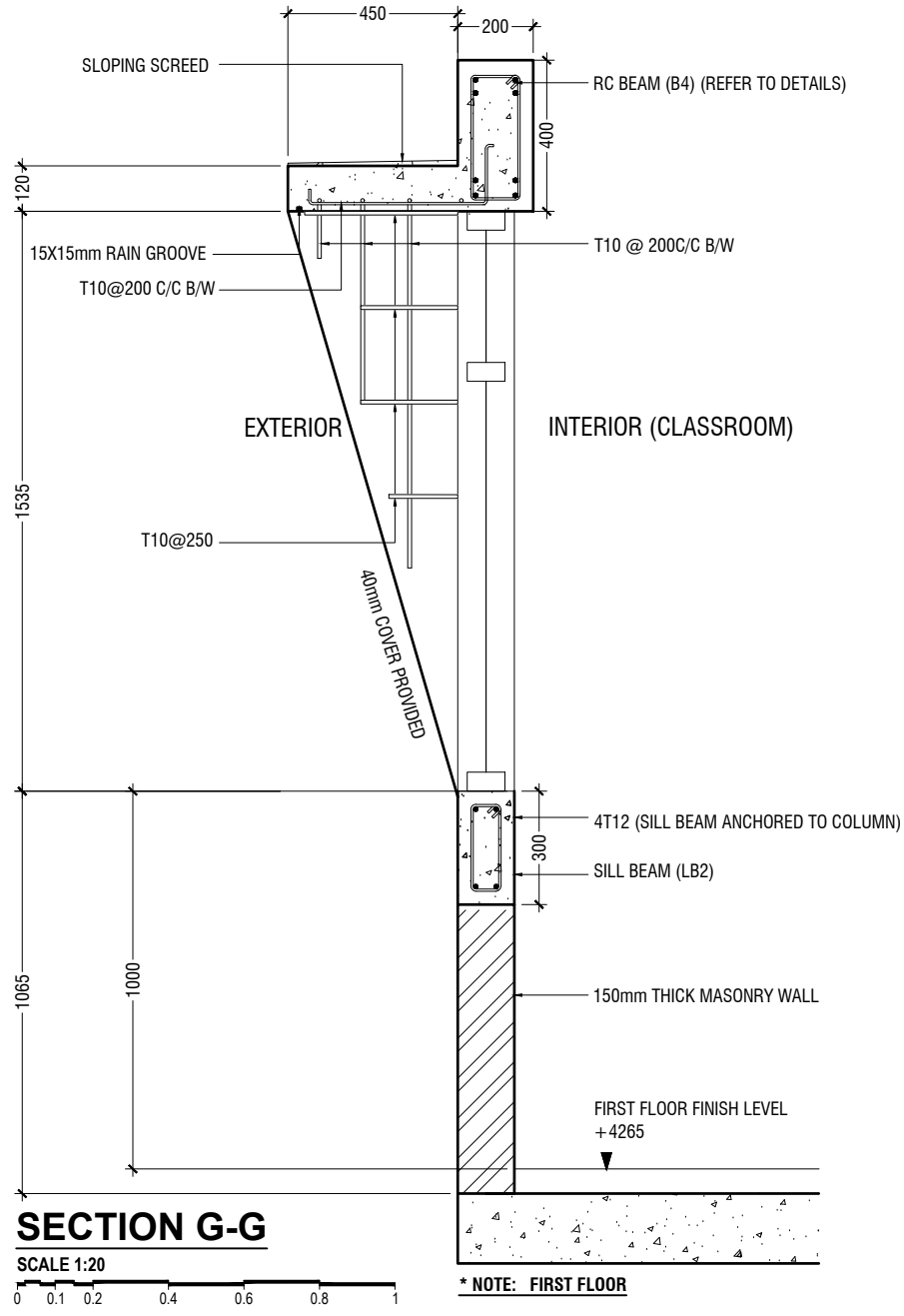
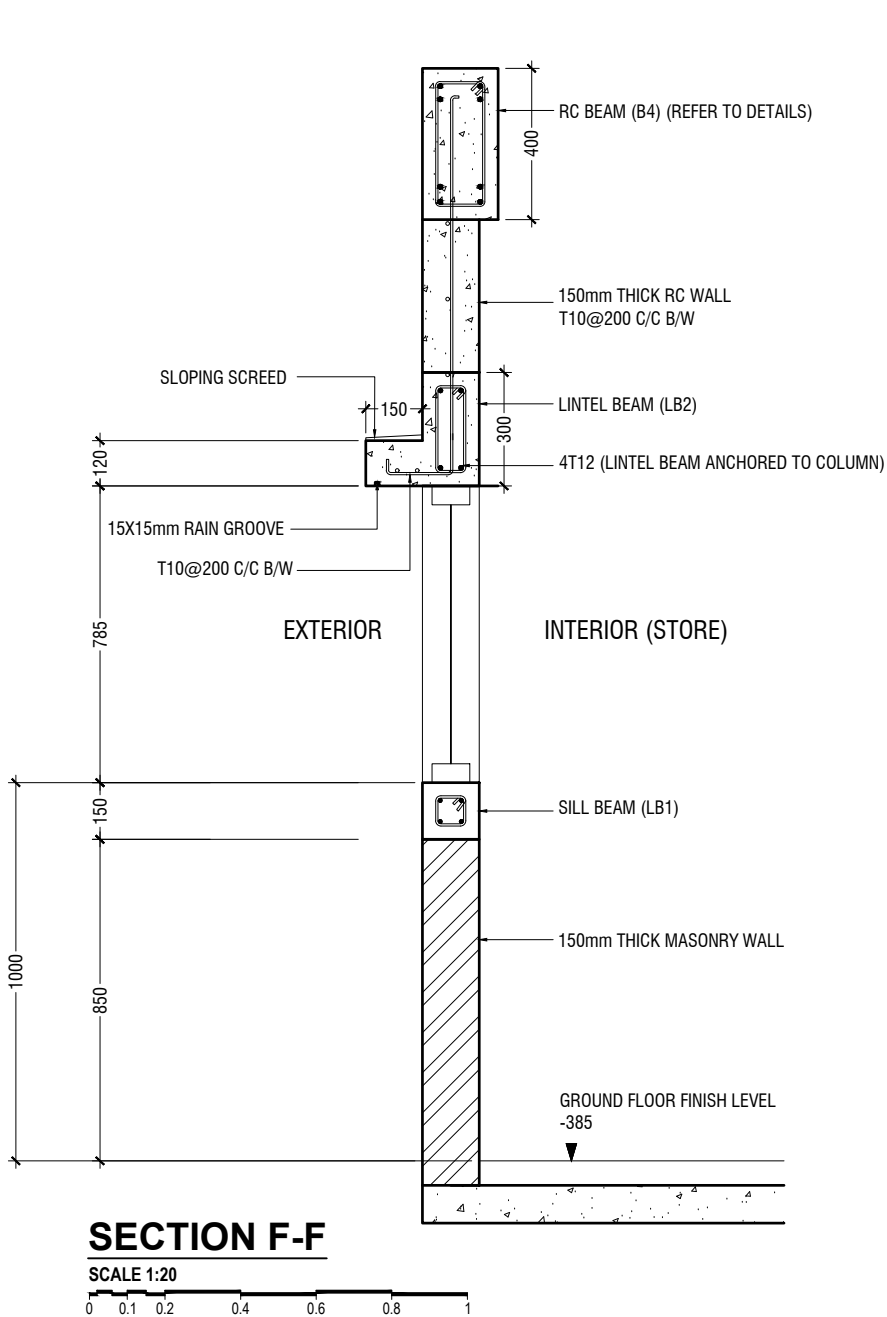
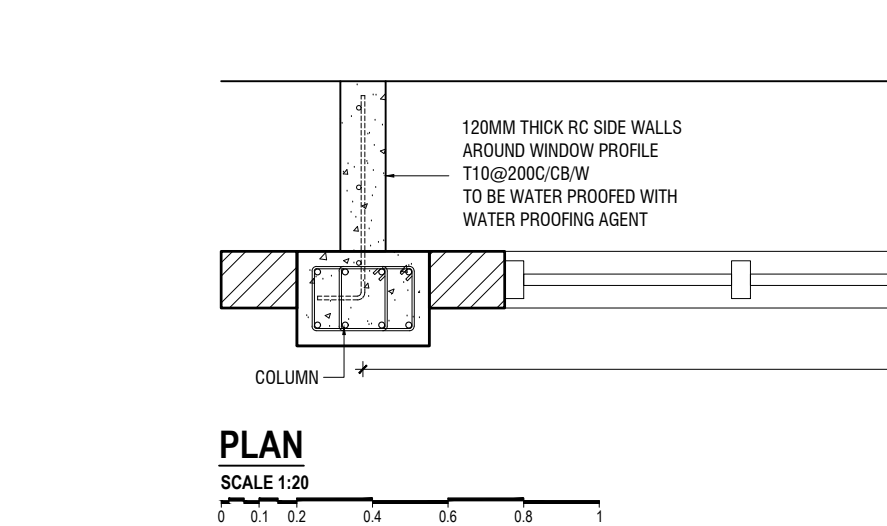
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Title: Detail -6
Railing Details

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DETAIL - 7
RC WALL DETAILS
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muhtalib Waleed

Drawn by: Maryam Leevan Jaleel

Prabakaran Nadimuthu

Services: Jose Julius Alzate & Jeffry Caballo

Interior: -

Rev no

Date

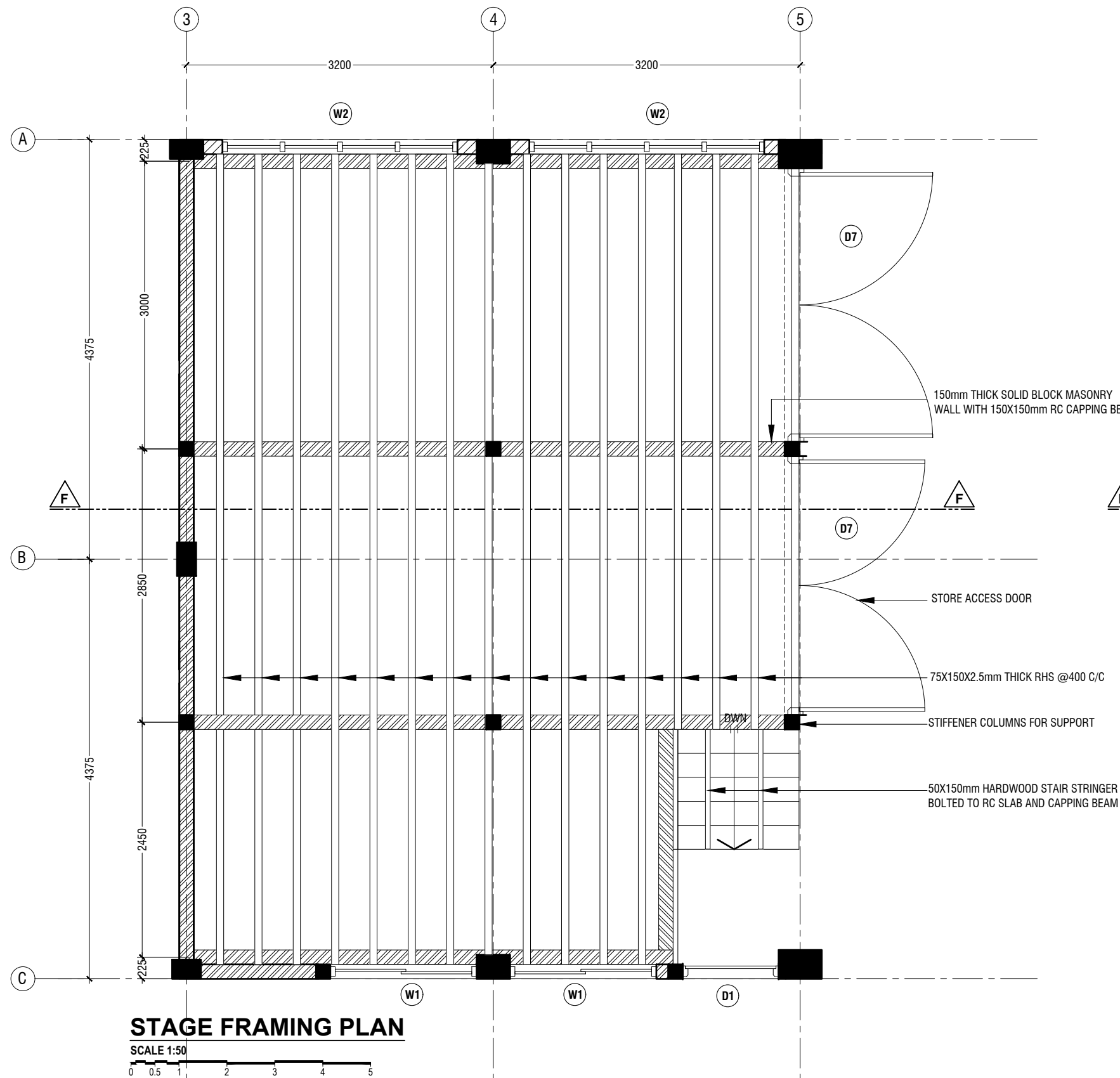
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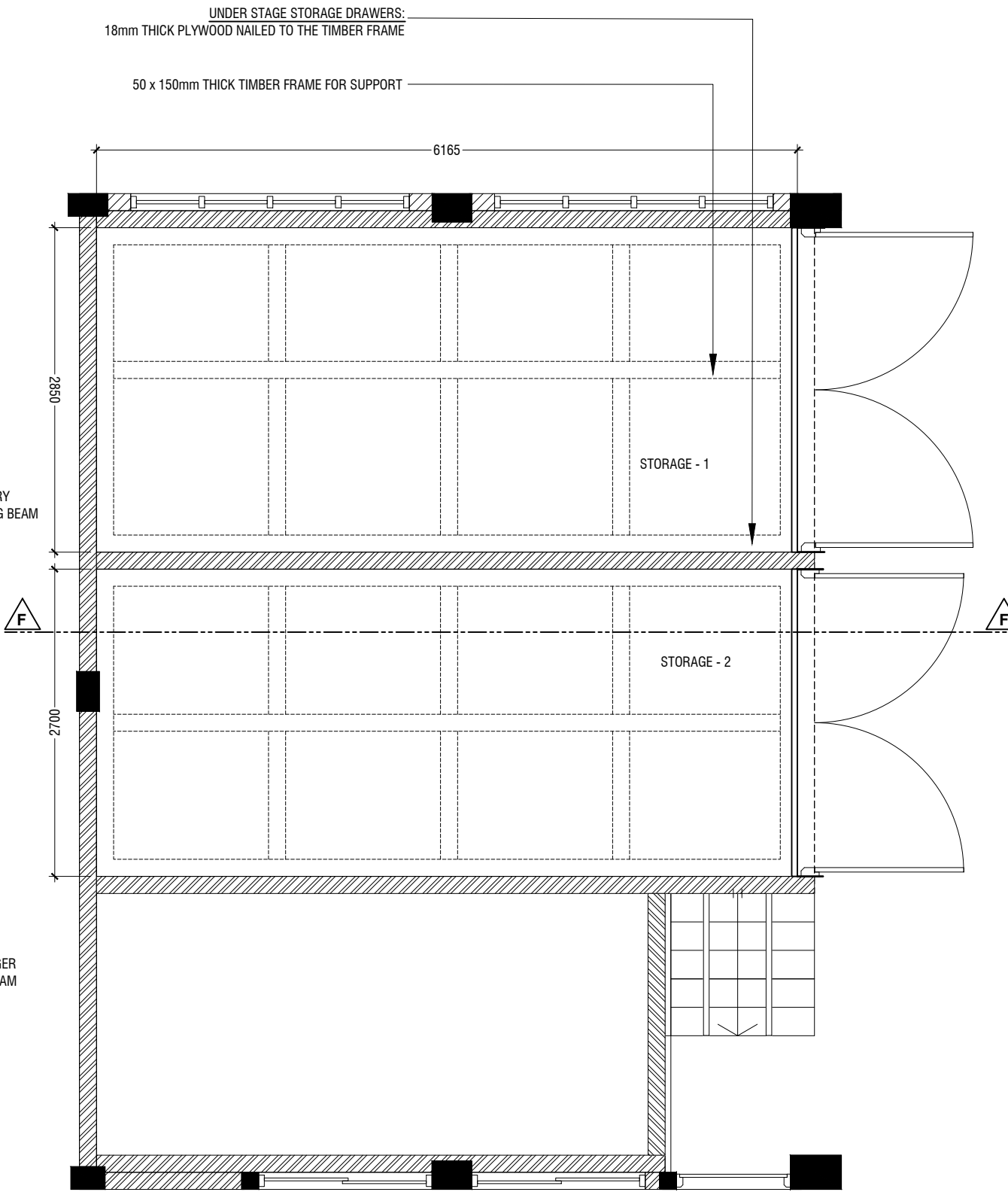
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Title: Detail -7
Rc wall Details

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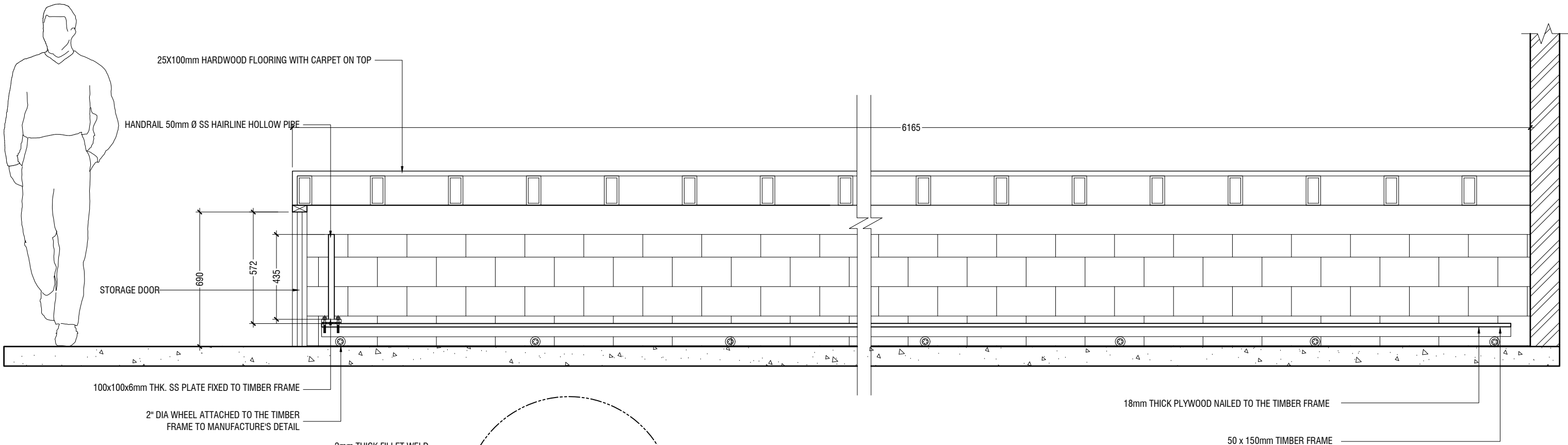


STAGE FRAMING PLAN
SCALE 1:50



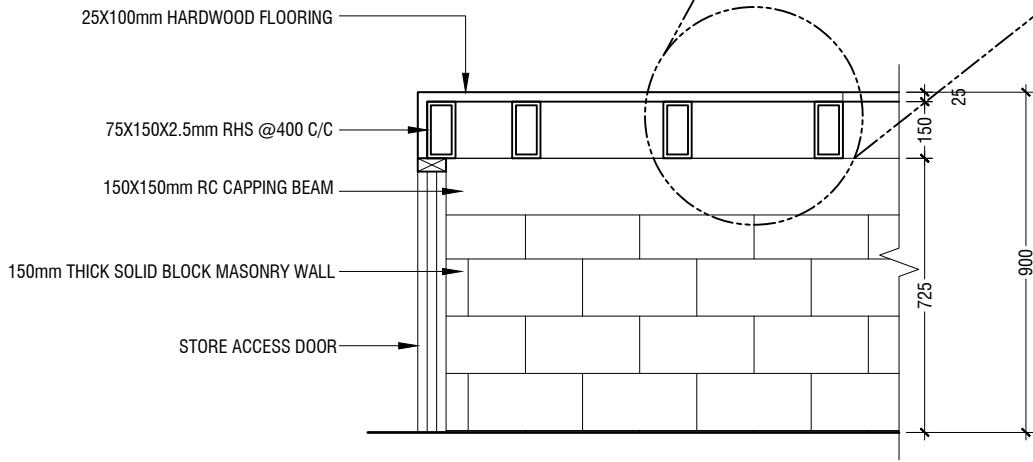
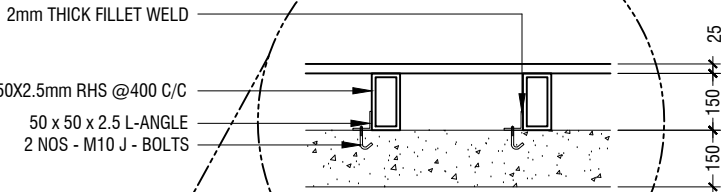
STAGE DRAWERS PLAN
SCALE 1:100

DETAIL - 8
STAGE DETAIL
SCALE 1:50



SECTION F-F

SCALE 1:20

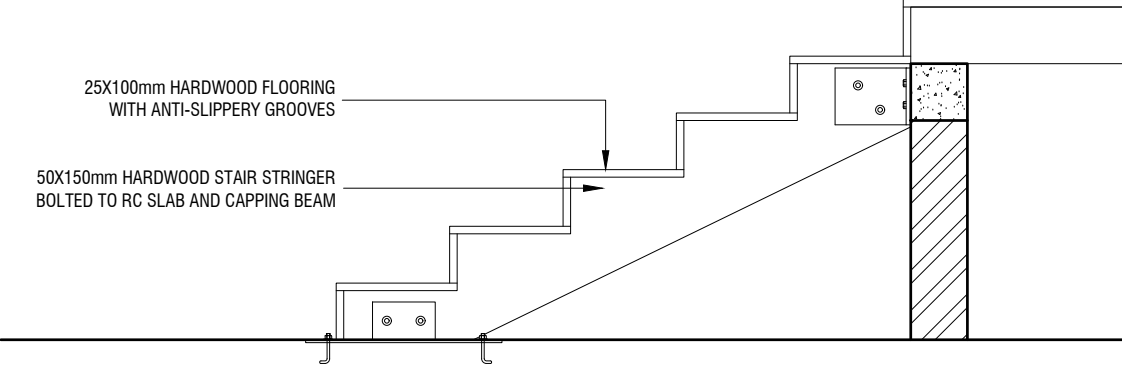


SECTION F-F

SCALE 1:20

STAGE DETAILS

SCALE 1:20



STAIR DETAIL

SCALE 1:20

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number	Rev no	Date
RI/2020/006	--	-----
Date: April 2021	--	-----
Architect : Maryam Irasha Shareef	--	-----
Engineer : Mohamed Muhtalib Waleed	--	-----
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Prabakaran Nadiruthu	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----



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Stage Details

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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.

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muththaliib Waleed

Drawn by : Prabhakaran Nadimudhu

Services : Jose Julius Alzate & Jeffry Caballo

Interior : -

Rev no

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Date



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Title: General Notes -1

Page: S-01/19

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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

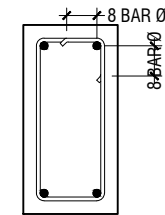
- THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING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

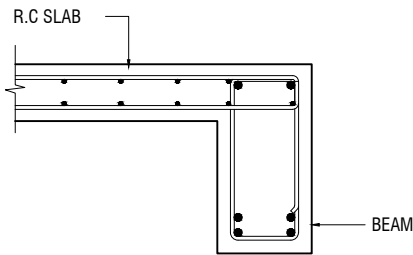
18.0 SPACER BARS

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

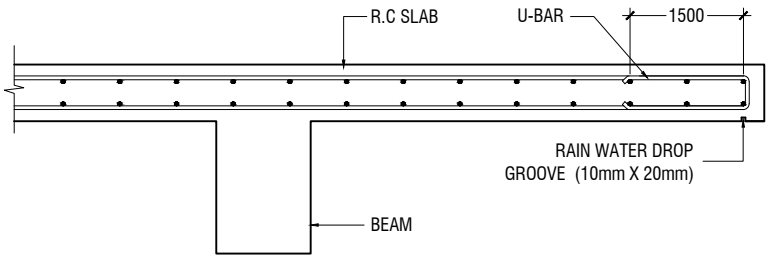


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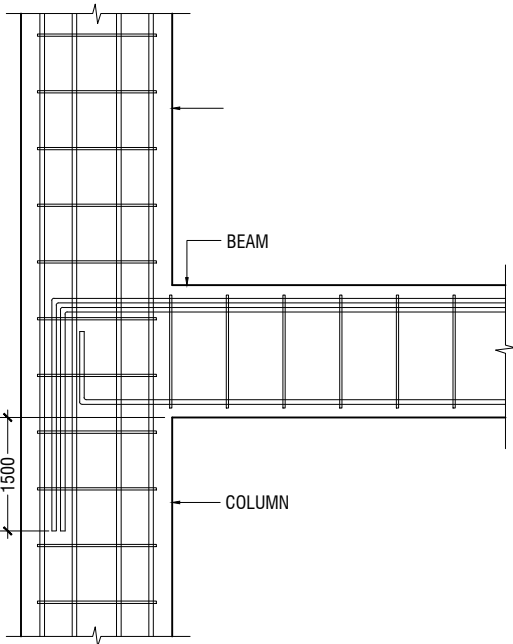
SHEAR LINKS ANCHORAGE DETAIL



SLAB-BEAM ANCHORAGE DETAIL



CANTILEVERED SLAB EDGE DETAIL



BEAM TO COLUMN CONNECTION

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

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Date: April 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muththalib Waleed

Drawn by : Prabhakaran Nadimuthu

Services : Jose Julius Alzate & Jeffrey Caballo

Interior : -

Rev no	Date
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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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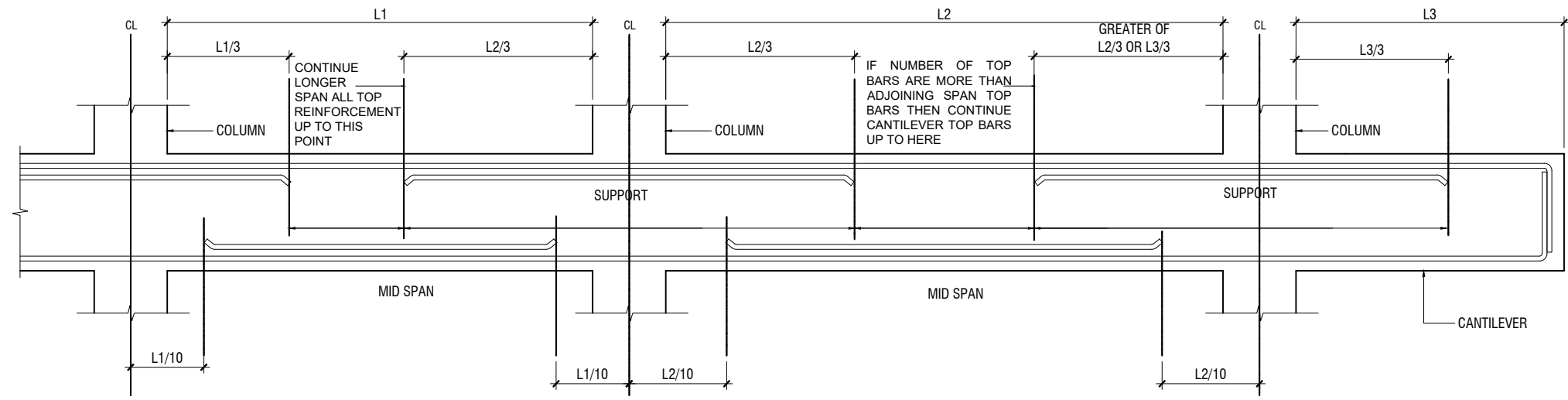
Title: General Notes -3

Page: S-03/19

M.Naalaafushi School 06 Classroom (2 story)

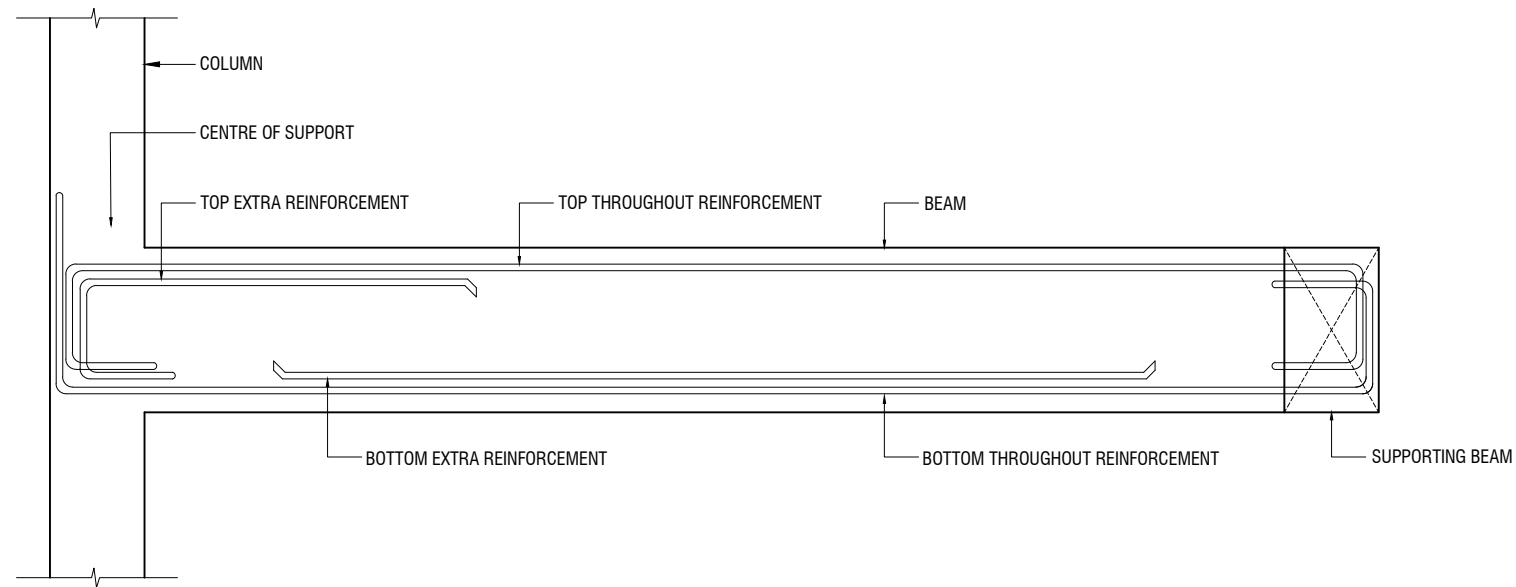
Client: Ministry of Education

Project Number: RI/2020/006	
Date: April 2021	
Architect : Mariyam Irasha Shareef	
Engineer : Mohamed Muththalib Waleed	
Drawn by : Prabhakaran Nadimuthu	
Services : Jose Julius Azate & Jeffrey Caballo	
Interior : -	
Rev no	Date
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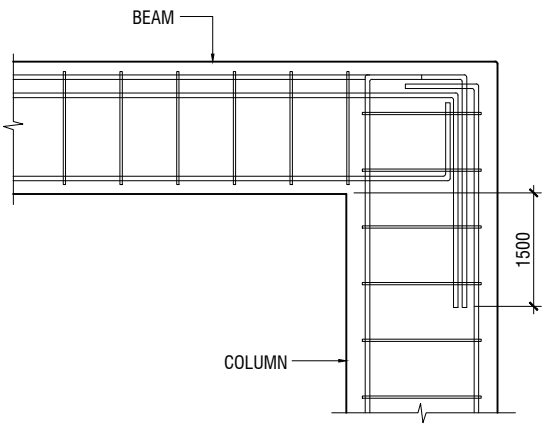


SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)

L1 = SHORTER SPAN
L2 = LONGER SPAN
L3 = CANTILEVER LENGTH



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 REFERRED TO IN RELEVANT BS
CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muththalib Waleed

Drawn by: Prabhakaran Nadimuthu

Services: Jose Julius Alzate & Jeffry Caballo

Interior: -

Rev no	Date
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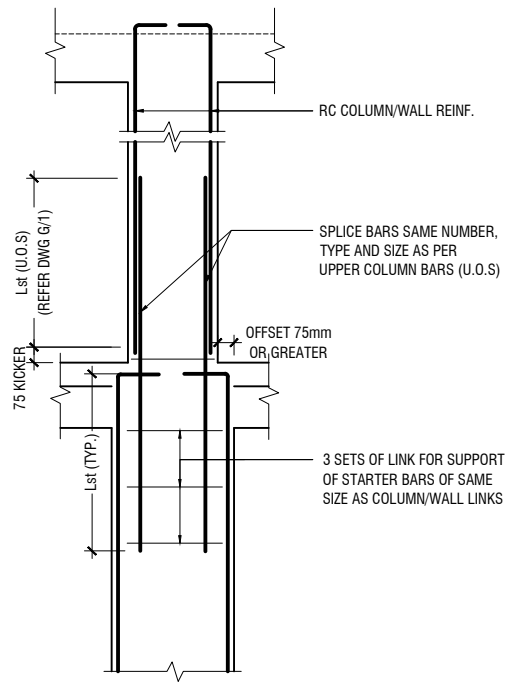
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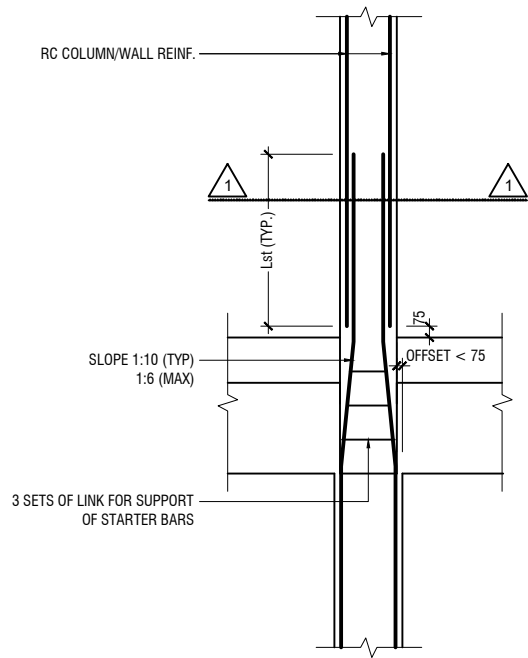
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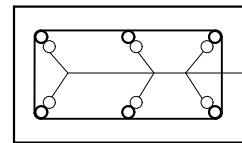


A) FOR COLUMN OFFSET > 75mm
TO BE VERIFIED BY THE CONSULTING ENGINEER



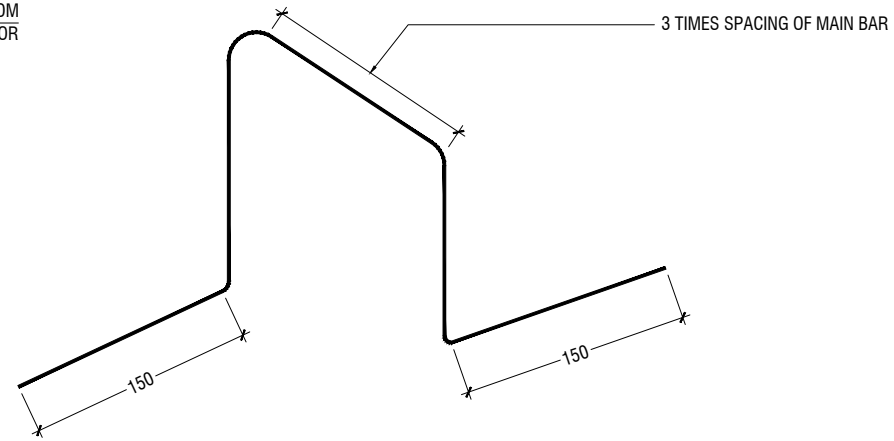
B) FOR COLUMN OFFSET < 75mm

COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL

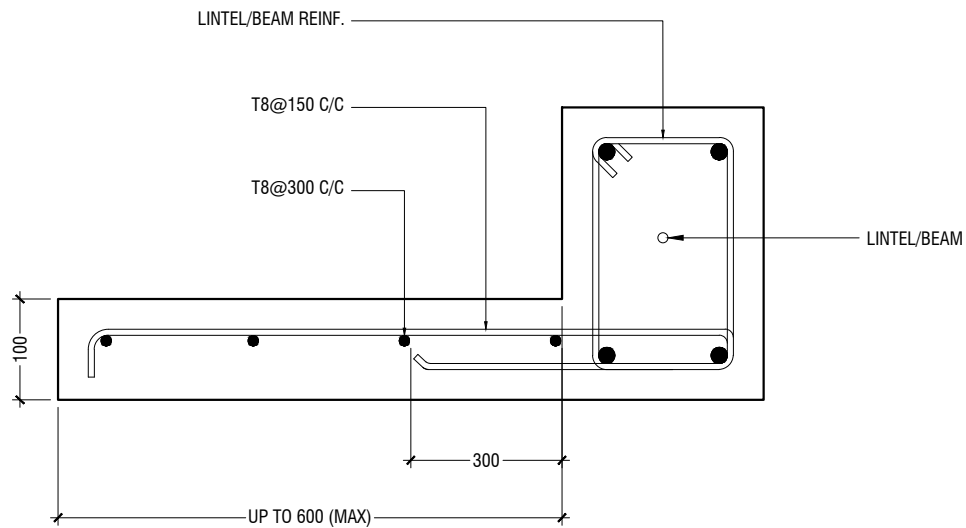


SECTION-1-1

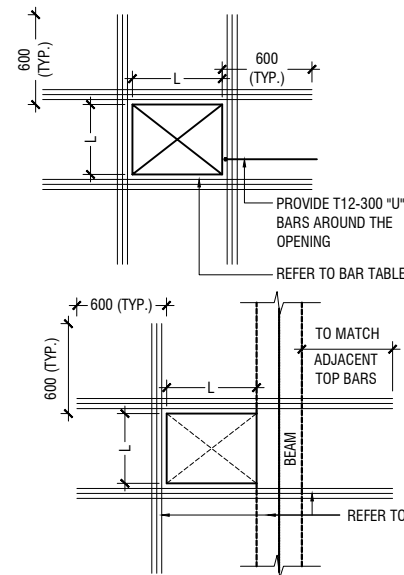
REINF. FROM LOWER FLOOR



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

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muththalib Waleed

Drawn by: Prabhakaran Nadimudhu

Services: Jose Julius Alzate & Jeffrey Caballo

Interior: -

Rev no

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Date

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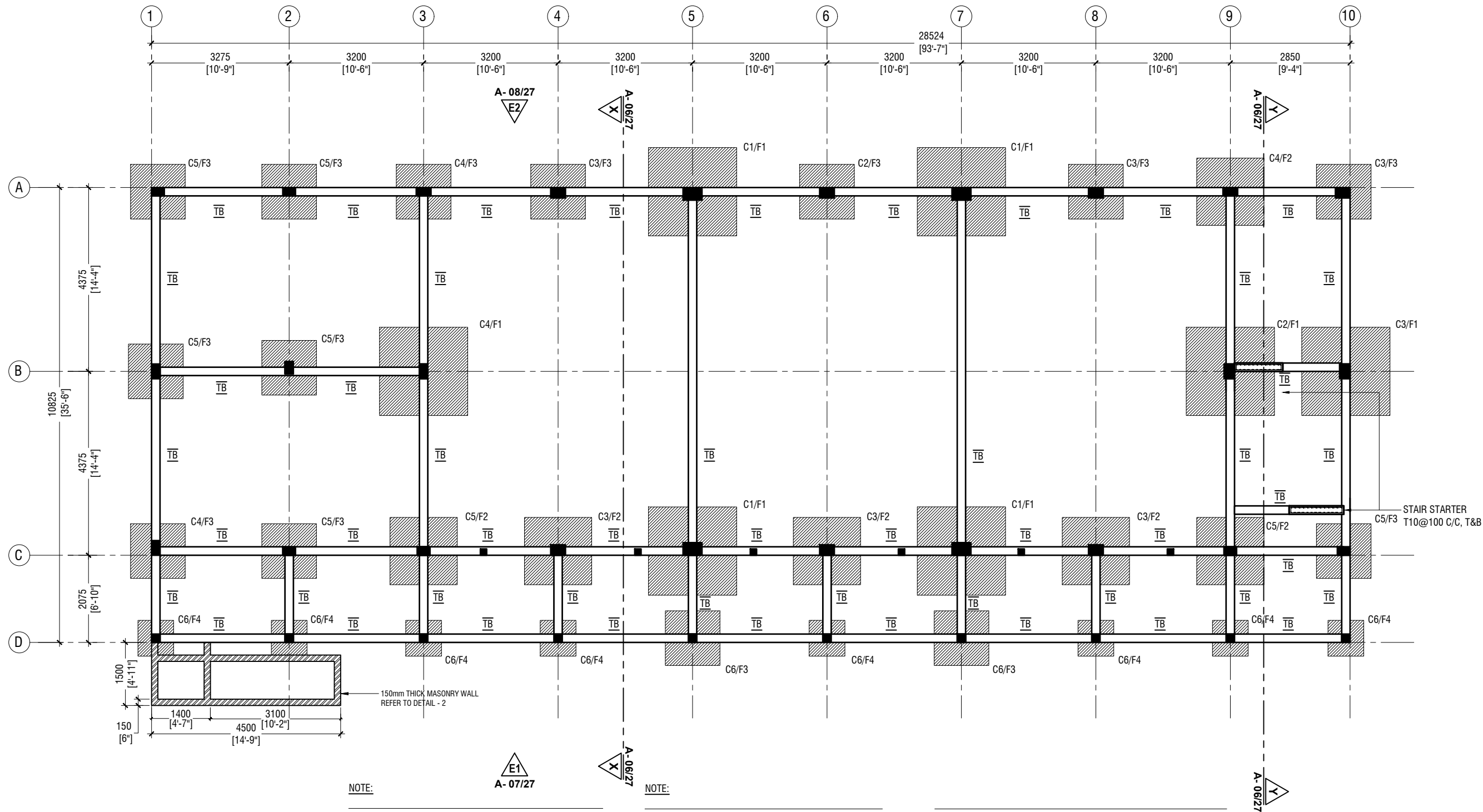


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Title: General Notes -5

Page: S-05/19



FOUNDATION PLAN

SCALE 1:100

NOTE:

COLUMN SIZES

C1 : 300 x 450 mm
C2 : 250 x 350 mm
C3 : 250 x 350 mm
C4 : 200 x 350 mm
C5 : 200 x 300 mm
C6 : 200 x 200 mm
SC : 150 x 150 mm
COVER : 40mm

FOUNDATION PAD SIZES

	DIMENSION	REINFORCEMENT
F1	2100 x 2100 x 300	T16@150 C/C B/W (B)
F2	1600 x 1600 x 300	T12@150 C/C B/W (B)
F3	1300 x 1300 x 300	T12@150 C/C B/W (B)
F4	850 x 850 x 300	T12@150 C/C B/W (B)

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 : 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

TB : 200 x 450 mm
COVER : 50mm

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

 -150mm THK. SOLID MASONRY BLOCK WALL

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

M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education

Project Number: R/2020/006

Date: April 2021

Architect: Mianiam Irasha Shareef

Engineer: Mohamed Muththallo Waleed

Drawn by: Prabhakaran Nadimuthu

Services: Jose Julius Alzate & Jeffrey Caballo

Interior: -



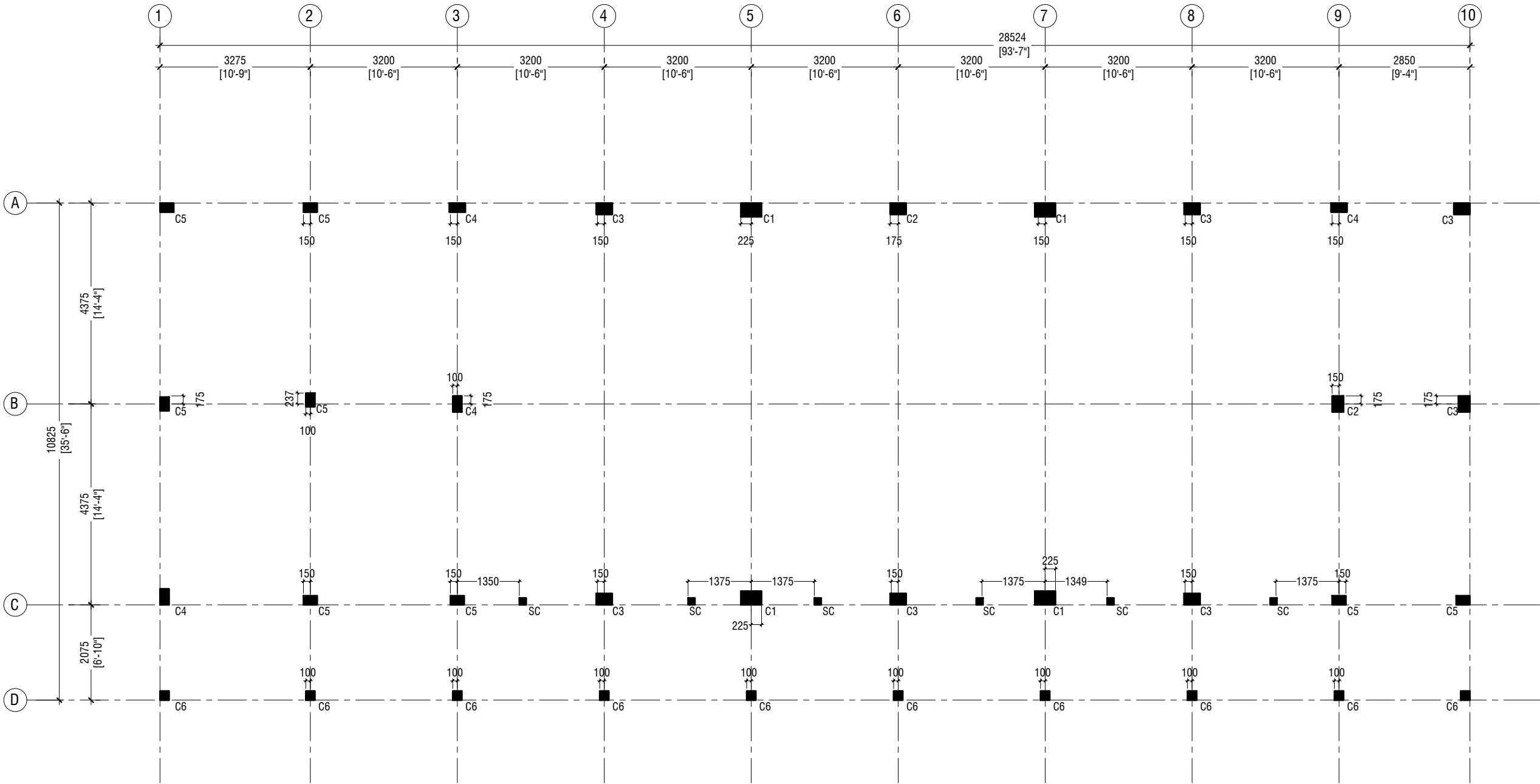
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Title: Foundation Plan

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NOTE:

COLUMN SIZES	
C1	: 300 x 450 mm
C2	: 250 x 350 mm
C3	: 250 x 350 mm
C4	: 200 x 350 mm
C5	: 200 x 300 mm
C6	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 40mm

TYPICAL GROUND AND FIRST FLOOR COLUMN LAYOUT PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muthalib Waleed

Drawn by : Prabhakaran Nadimuthu

Services : Jose Julius Alzate & Jeffry Caballo

Interior : -

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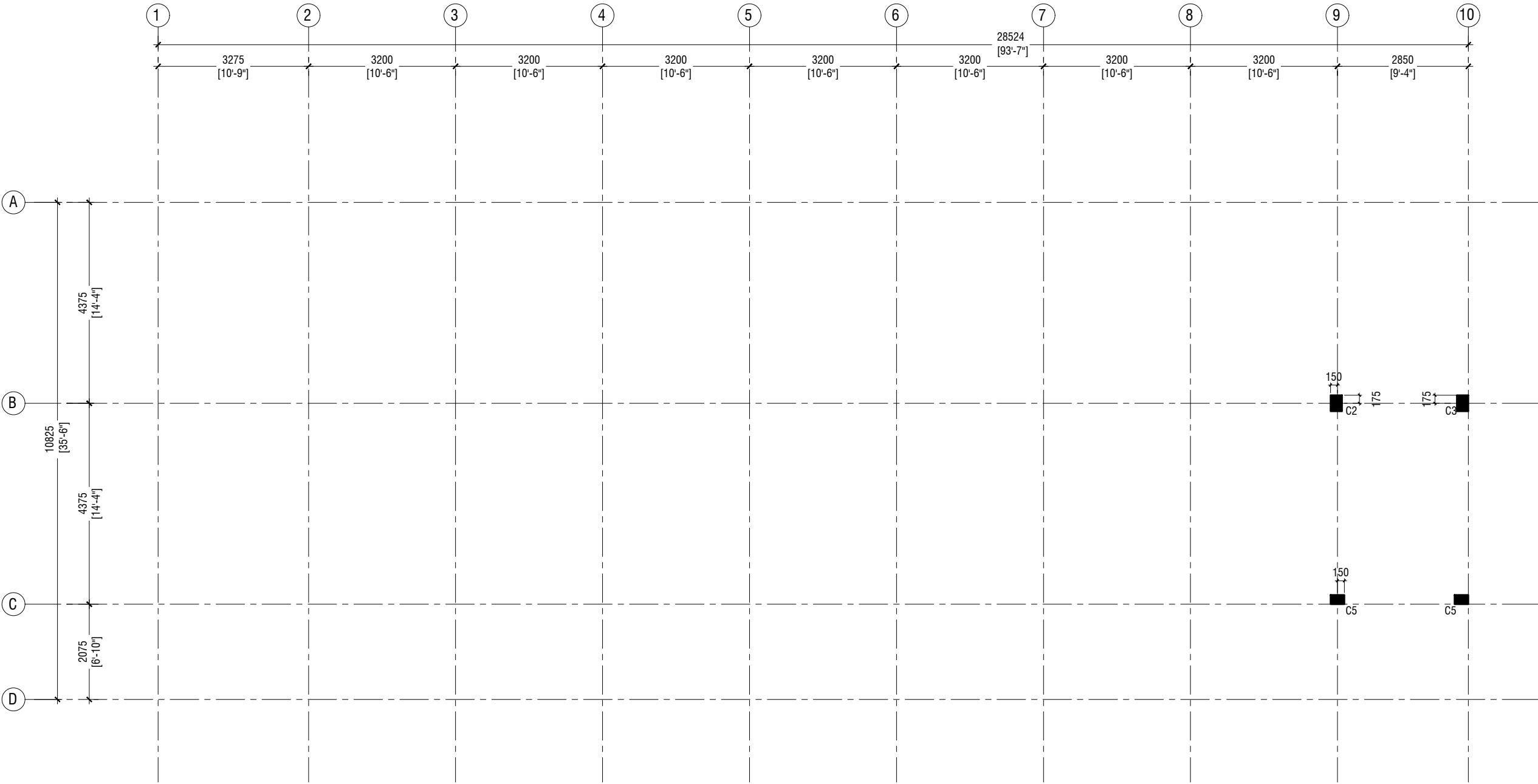
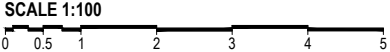
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TERRACE FLOOR COLUMN LAYOUT PLAN



NOTE:

COLUMN SIZES	
C1	: 300 x 450 mm
C2	: 250 x 350 mm
C3	: 250 x 350 mm
C4	: 200 x 350 mm
C5	: 200 x 300 mm
C6	: 200 x 200 mm
SC	: 150 x 150 mm
COVER	: 40mm

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: April 2021	--	-----
Architect : Mariyam Irasha Shareef	--	-----
Engineer : Mohamed Muththalib Waleed	--	-----
Drawn by : Prabhakaran Nadimuthu	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----

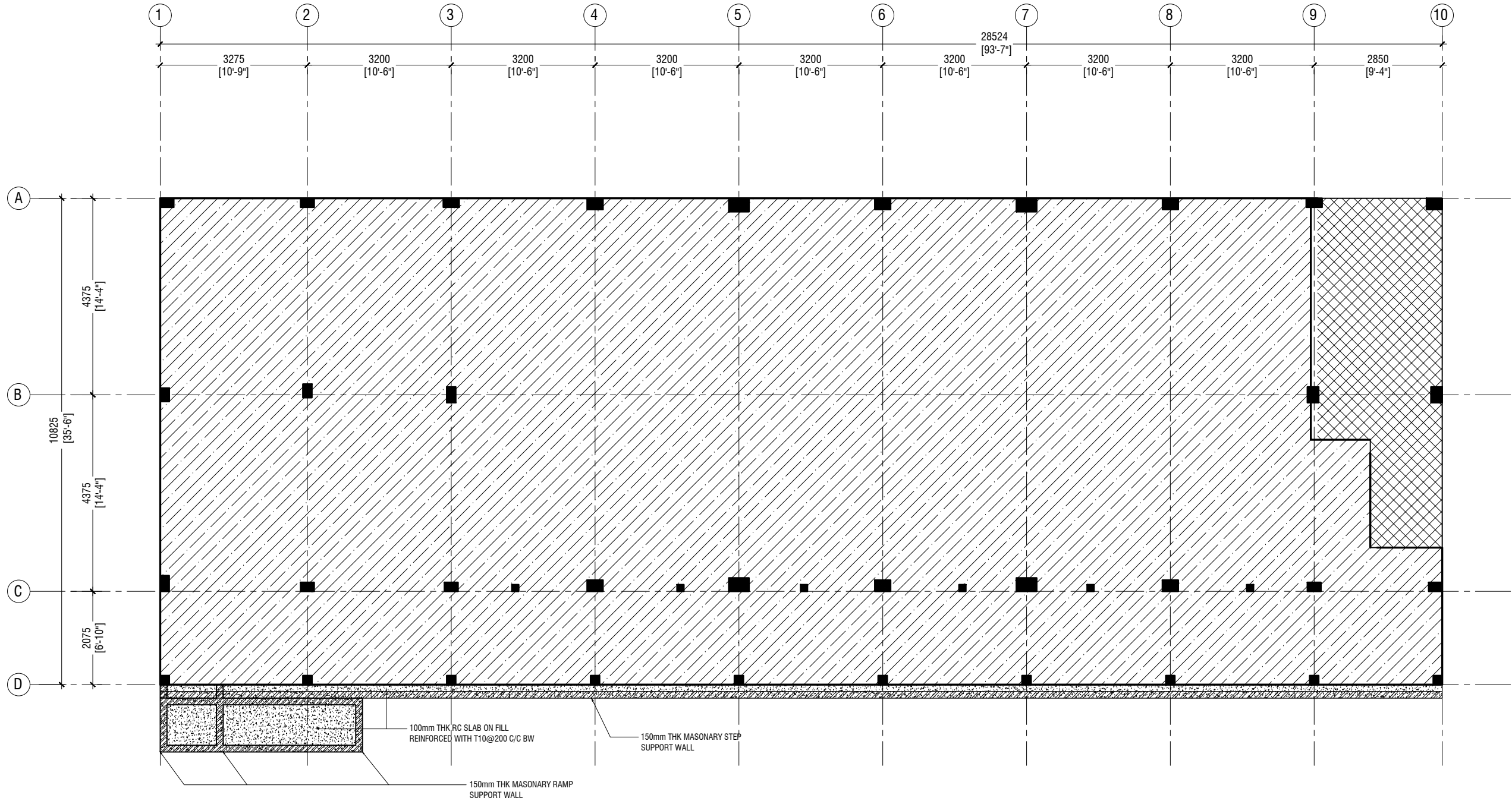


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
Title: Terrace Floor
Column Plan

Page: S-08/19



GROUND FLOOR SLAB REINFORCEMENT PLAN

SCALE 1:100

NOTE:		
	100mm THK RC SLAB ON FILL REINFORCED WITH T10@200 C/C BW @ +300mm	
	100mm THK RC SLAB ON FILL REINFORCED WITH T10@200 C/C BW @ -450mm	

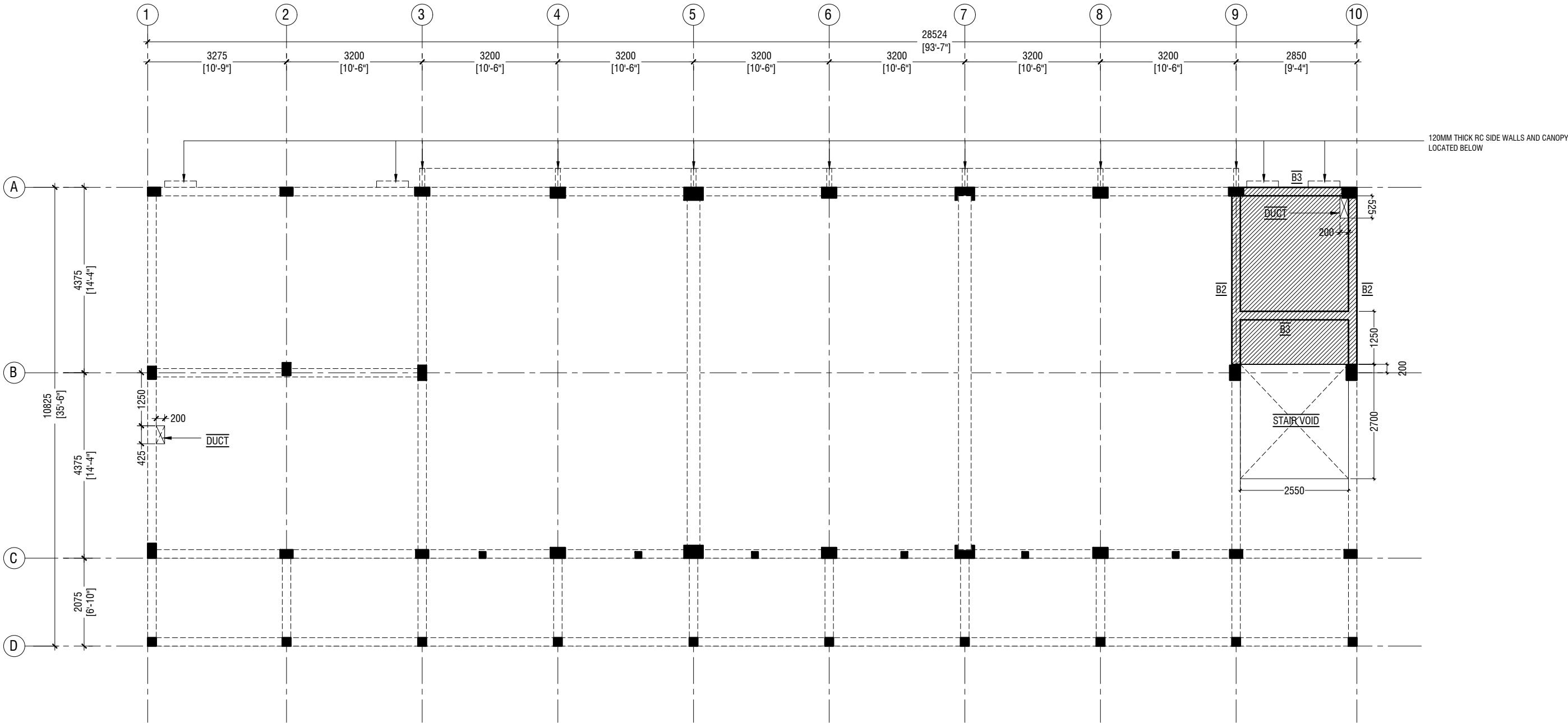
M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education

Project Number	Rev no	Date
RI/2020/006	--	-----
Date: April 2021	--	-----
Architect: Maryam Irasha Shareef	--	-----
Engineer: Mohamed Muthalib Waleed	--	-----
Drawn by: Prabhakaran Nadinurthu	--	-----
Services: Jose Julius Alzate & Jeffry Caballo	--	-----
Interior: -	--	-----

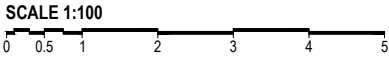


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Title: Ground Floor
Slab Reinforcement Plan
Page: S-09/19

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STORE / HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN



NOTE:

BEAM SIZES	
B1	: 300x600 mm
B2	: 200x400 mm
B3	: 200x400 mm
B4	: 200x400 mm
COVER	: 35mm

SLAB THICKNESS: 150mm

REINFORCEMENT: T10@150C/C B/W (T&B)

ALL REINFORCEMENT TO BE DISCONTINUOUS OVER THE VOIDS

M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Rev no	Date
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Project Number: RI/2020/006
Date: April 2021
Architect: Maryam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Prabhakaran Nadinurthu
Services: Jose Julius Alzate & Jeffry Caballo
Interior: --



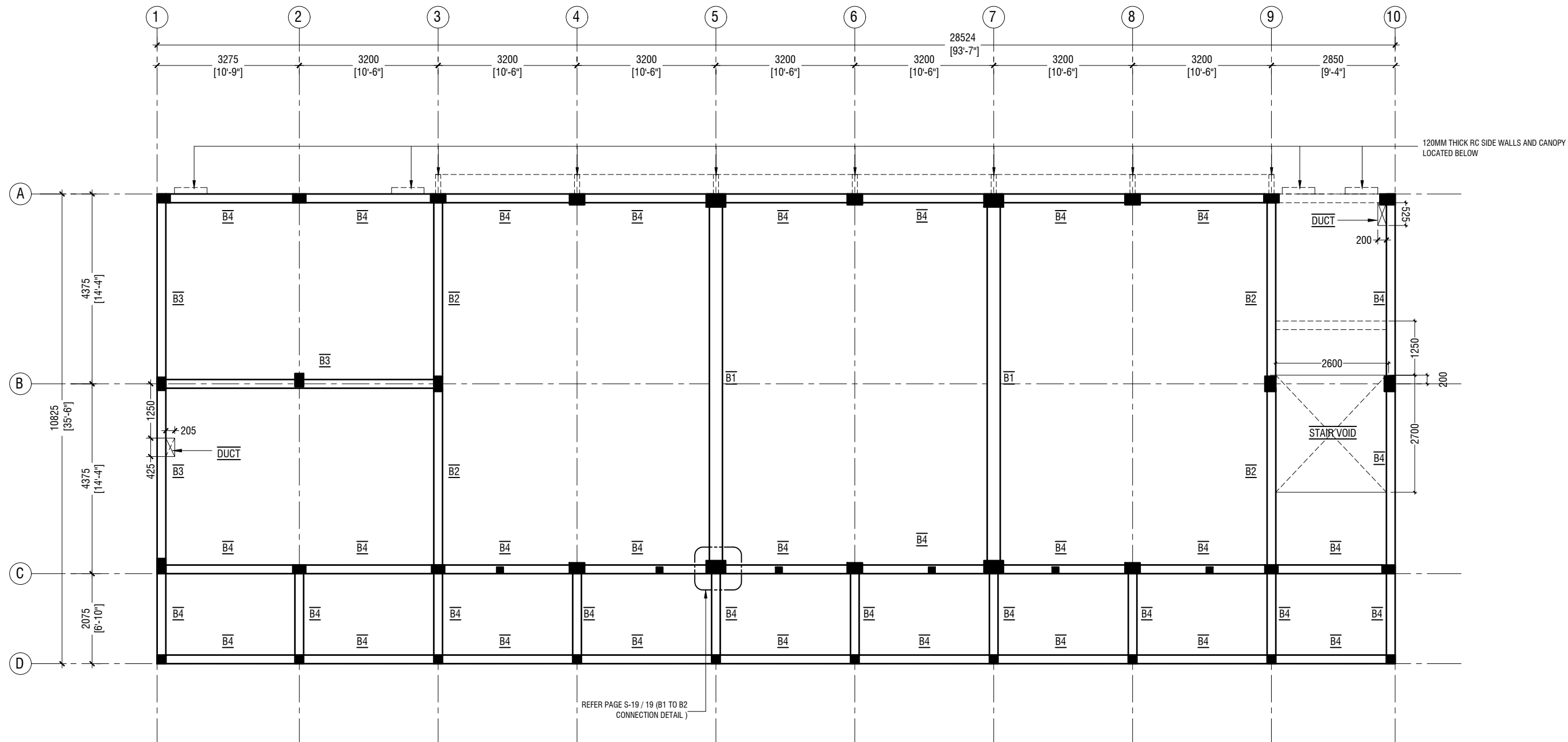
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Title: Half Landing Beam & Slab Reinforcement plan

Page: S-10/19

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FIRST FLOOR BEAM PLAN
SCALE 1:100

NOTE:

BEAM SIZES	
B1	: 300x600 mm
B2	: 200x400 mm
B3	: 200x400 mm
B4	: 200x400 mm
COVER	: 35mm

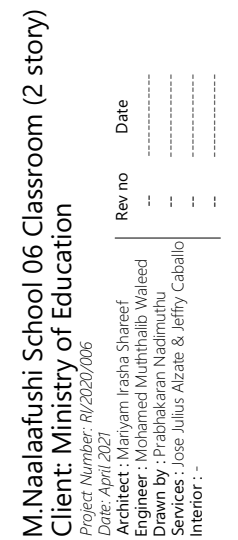
M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education
Project Number: RI/2020/006
Date: April 2021
Architect : Maryam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Prabhakaran Nadinurthu
Services : Jose Julius Alzate & Jeffry Caballo
Interior : -

Rev no	Date
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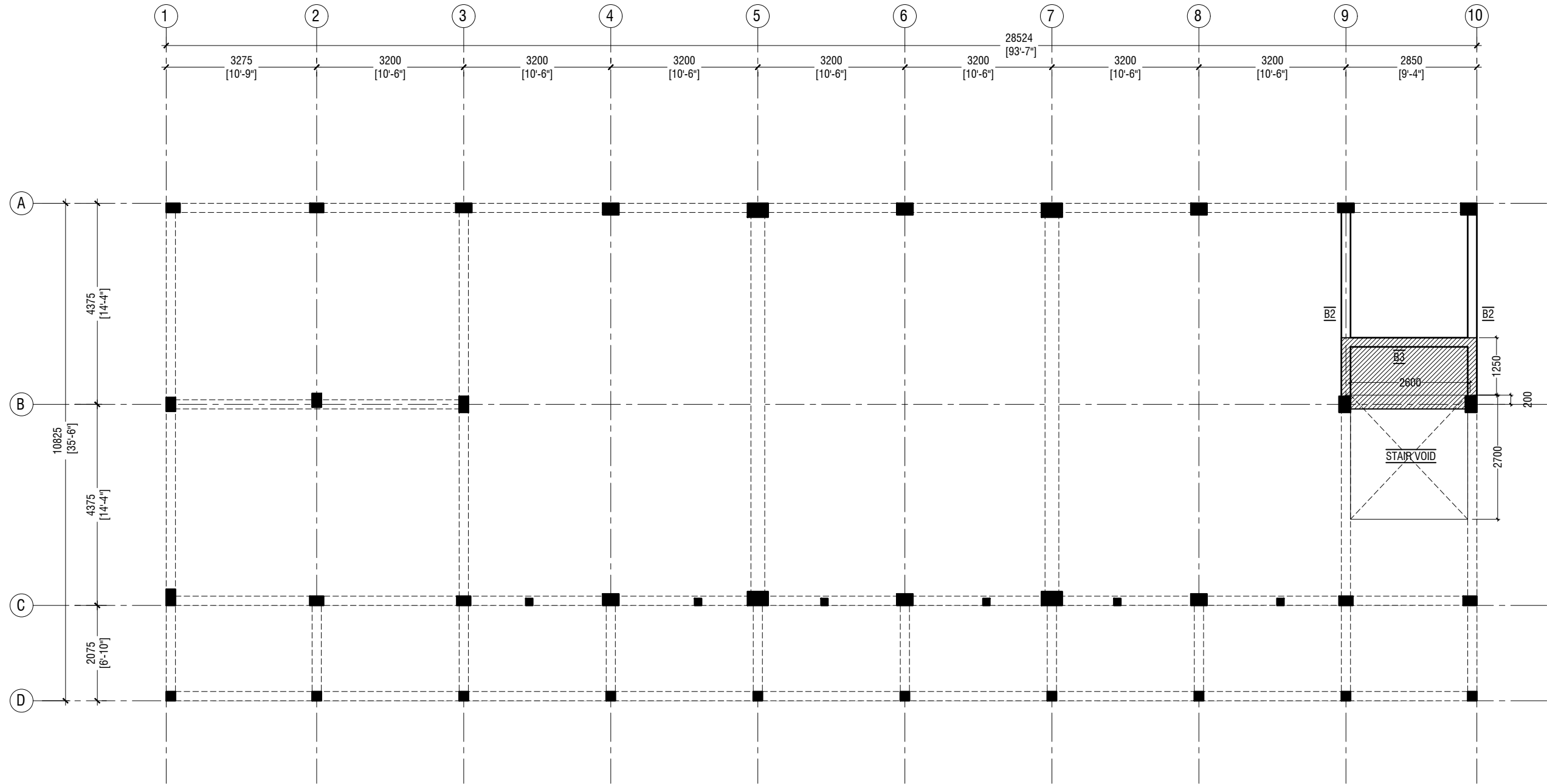
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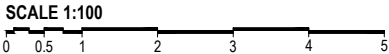
Title: First Florr
Slab Reinforcement plan

Page: S-12/19

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HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN



NOTE:

BEAM SIZES

B1 : 300x600 mm
B2 : 200x400 mm
B3 : 200x400 mm
B4 : 200x400 mm
COVER : 35mm

SLAB THICKNESS: 150mm

REINFORCEMENT: T10@150C/C B/W (T&B)

ALL REINFORCEMENT TO BE DISCONTINUOUS OVER THE VOIDS

M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education

Rev no	Date
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Project Number: RI/2020/006
Date: April 2021
Architect : Maryam Irasha Shareef
Engineer : Mohamed Muthalib Waleed
Drawn by : Prabhakaran Nadinurthy
Services : Jose Julius Alzate & Jeffry Caballo
Interior : --



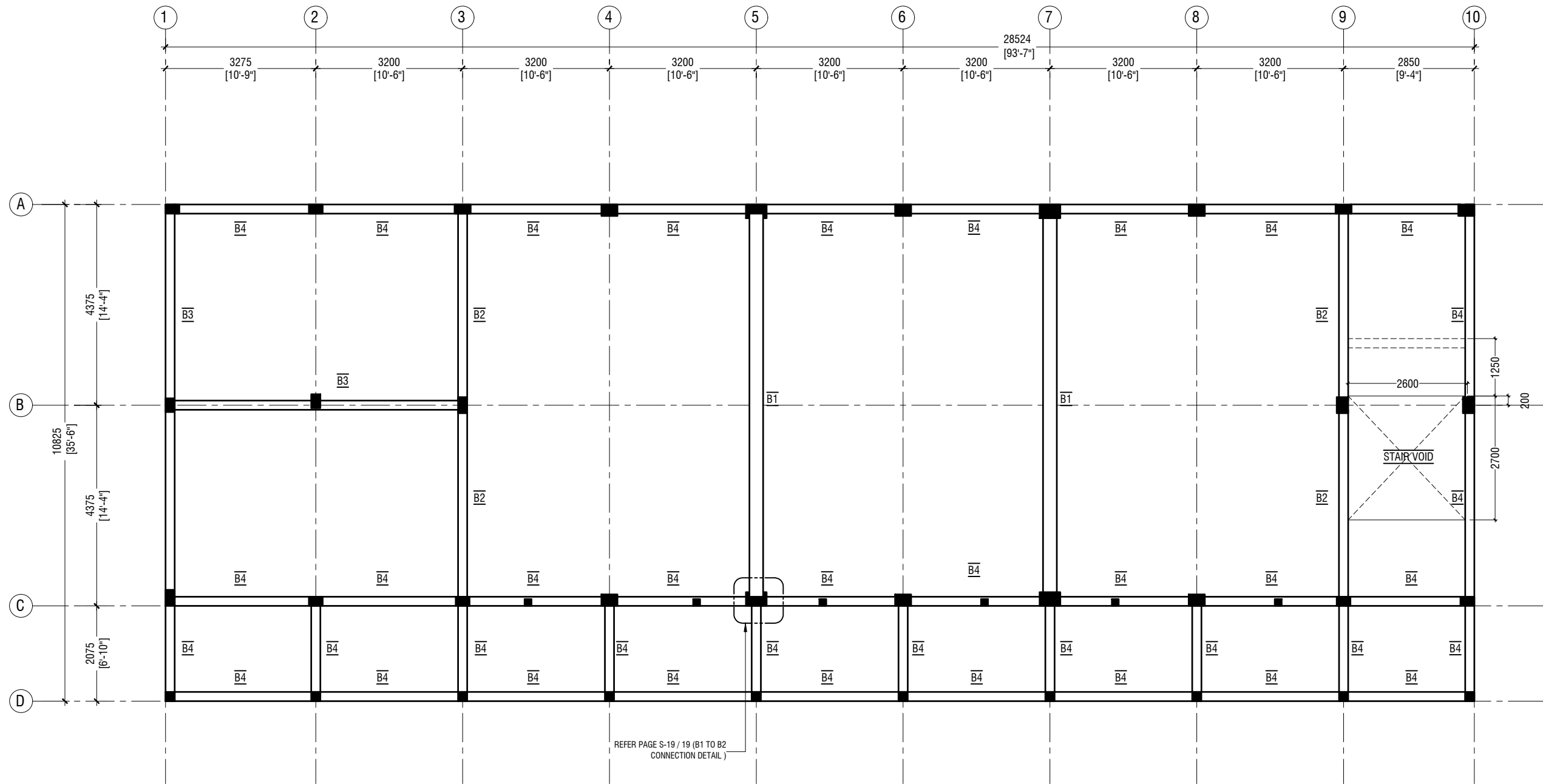
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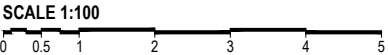
Title: Half Landing Beam & Slab Reinforcement plan

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TERRACE FLOOR BEAM PLAN



NOTE:

BEAM SIZES	
B1	: 300x600 mm
B2	: 200x400 mm
B3	: 200x400 mm
B4	: 200x400 mm
COVER	: 35mm

M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education

Project Number	Rev no	Date
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Date: April 2021	--	-----
Architect : Maryam Irasha Shareef	--	-----
Engineer : Mohamed Muthalib Waleed	--	-----
Drawn by : Prabhakaran Nadinurthu	--	-----
Services : Jose Julius Alzate & Jeffry Caballo	--	-----
Interior : -	--	-----

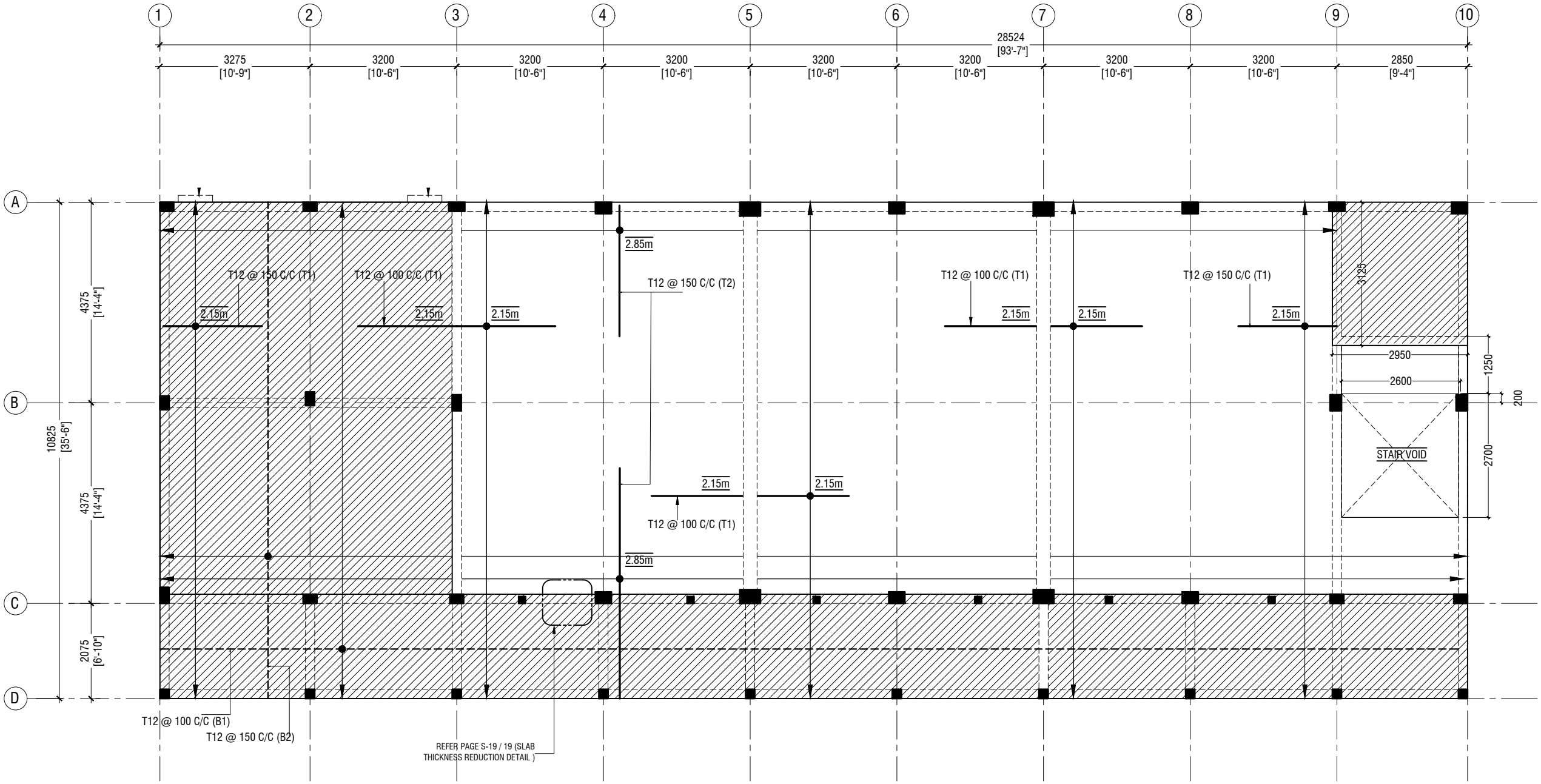


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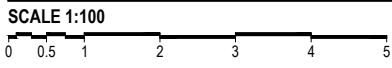
Title: Terrace Floor
Beam plan

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TERRACE FLOOR SLAB REINFORCEMENT PLAN



NOTE	
	SLAB THICKNESS: 180mm
	SLAB THICKNESS: 135mm
	BOTTOM REINFORCEMENT: T12@100 C/C ALONG SHORT DIRECTION (B1) (AS SHOWN) T12@150 C/C ALONG LONG SPAN (B2) (AS SHOWN)
	TOP REINFORCEMENT: T12@150C/C (AS SHOWN, UNLESS STATED)
	TOP DISTRIBUTION STEEL: T12@150C/C (NOT SHOWN)
	COVER : 30mm

M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education

Rev no	Date
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Project Number: RI/2020/006
Date: April 2021
Architect: Maryam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Prabhakaran Nadinurthu
Services: Jose Julius Alzate & Jeffry Caballo
Interior: --

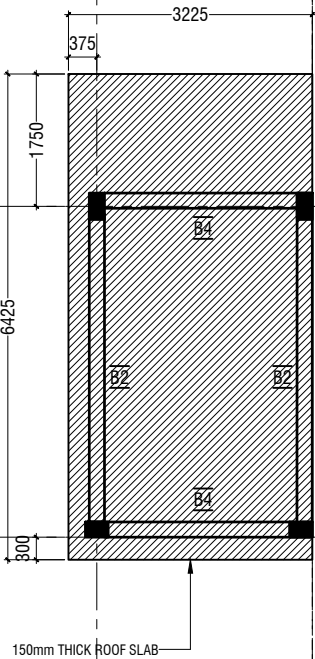


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Title: Terrace Floor
Slab Reinforcement plan

Page: S-15/19

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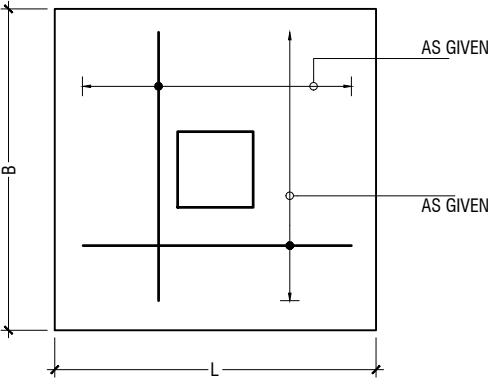
	DIMENSION (LXBXD)	REINFORCEMENT
F1	2100 x 2100 x 300	T16@150 C/C B/W (B)
F2	1600 x 1600 x 300	T12@150 C/C B/W (B)
F3	1300 x 1300 x 300	T12@150 C/C B/W (B)
F4	850 x 850 x 300	T12@150 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

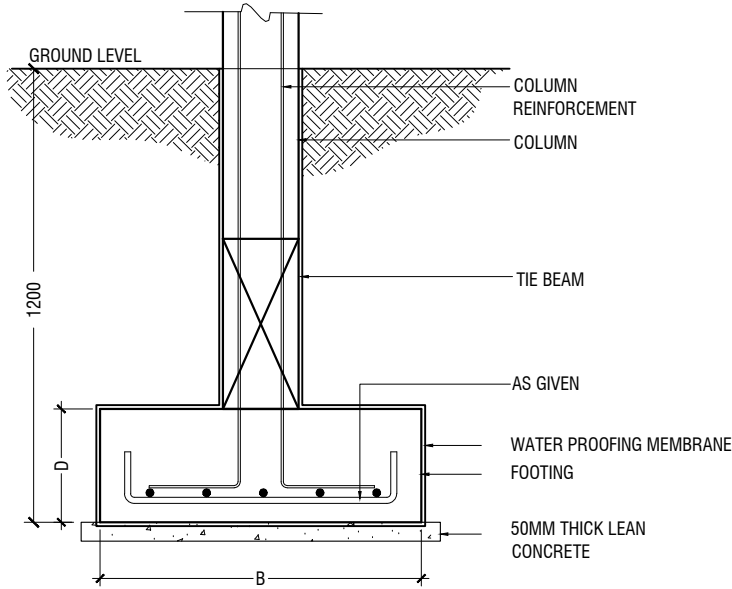
NOTE:-
COVER TO FOUNDATION = 50mm
COVER TO COLUMNS = 40mm
COVER TO BEAMS = 35mm
LAPS = Ø OF BAR x 45
BEAMS @END SUPPORT = Ø OF BAR x 12

CONCRETE GRADE = M25

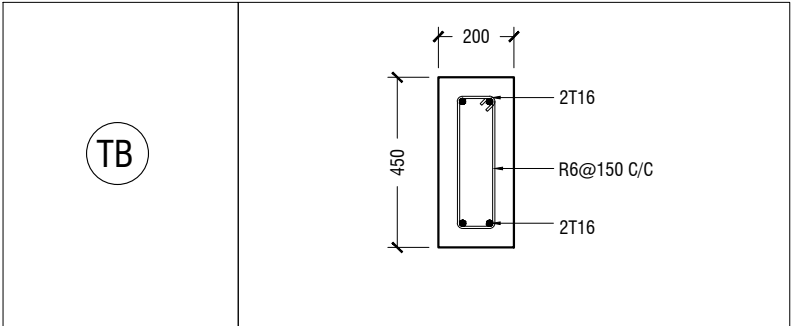
FOUNDATION PADS



PLAN



TYPICAL FOOTING SECTION



FOUNDATION DETAILS

	GROUND & 1ST FLOOR
C1	
C2	
C3	
C4	
C5	
C6	
SC	

COLUMN DETAIL

STRUCTURAL DETAILS - 1

SCALE 1:20



M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

Rev no	Date
1	2021/04/01
2	2021/04/01
3	2021/04/01
4	2021/04/01
5	2021/04/01
6	2021/04/01
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8	2021/04/01
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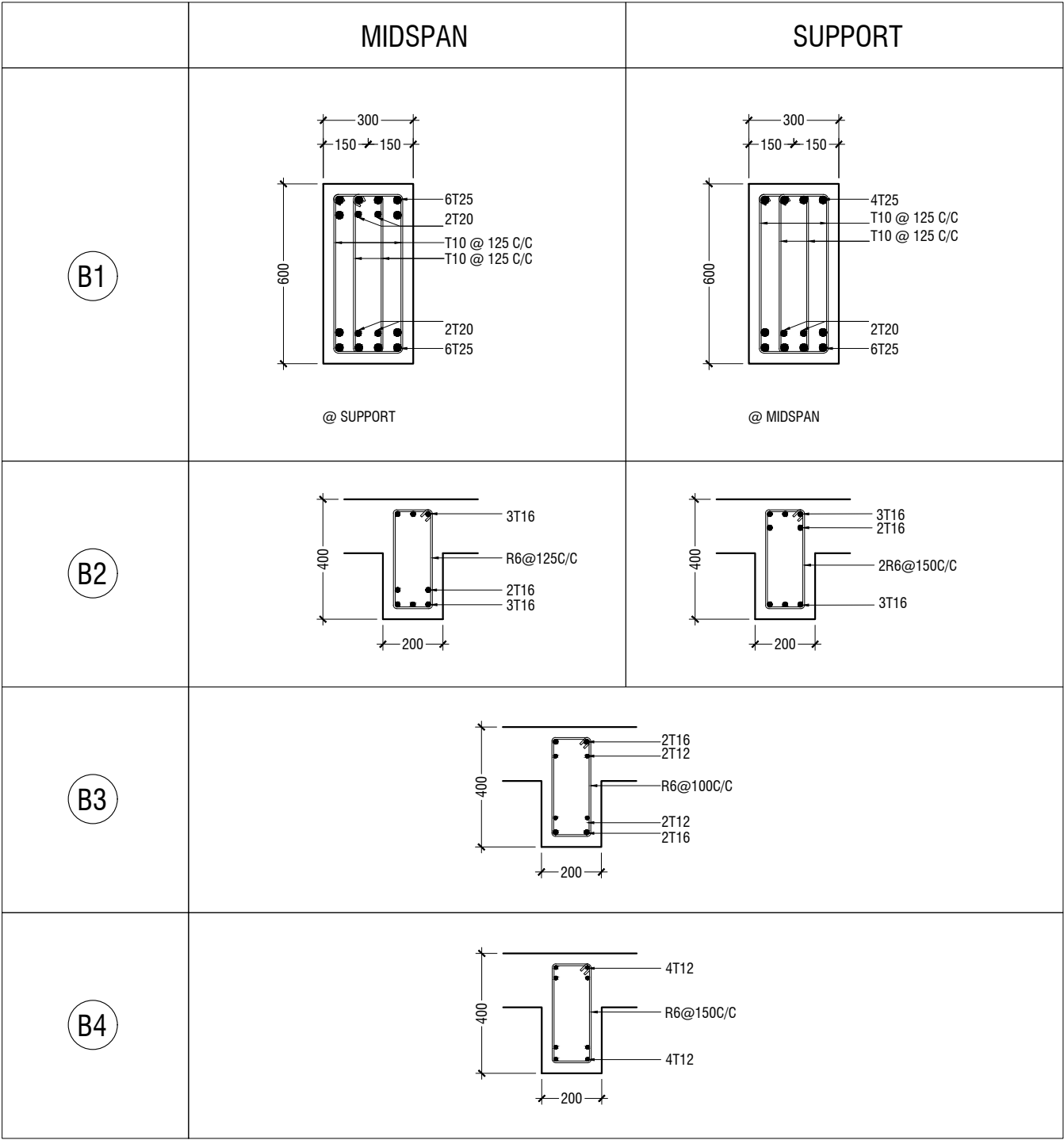
t : +9603315049 f : +9603310776
e : info@riyan.com.mv
w : www.riyan.com.mv
3rd floor, H. Azum, Ameenemagui, Male'

Title: Structural Details 1

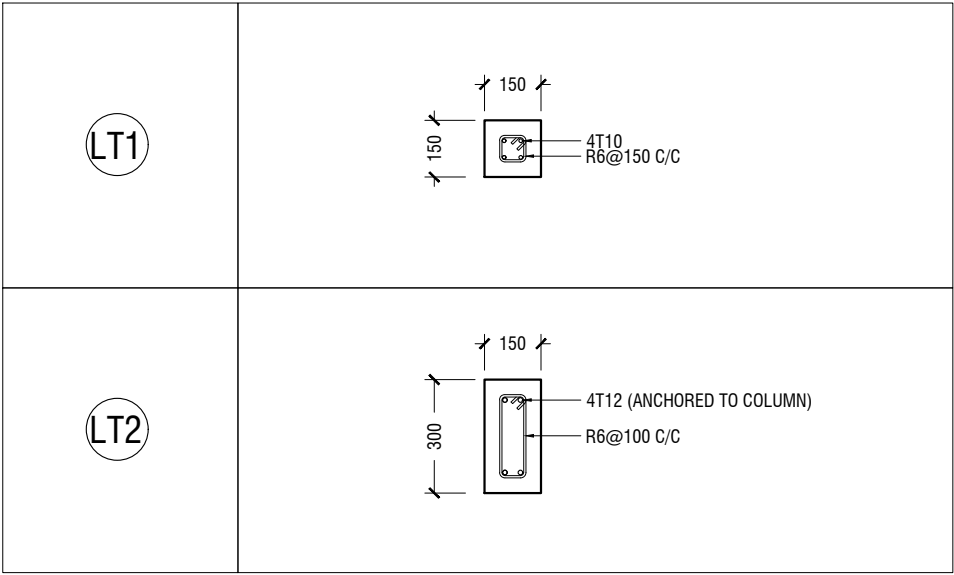
Page: S-17/19

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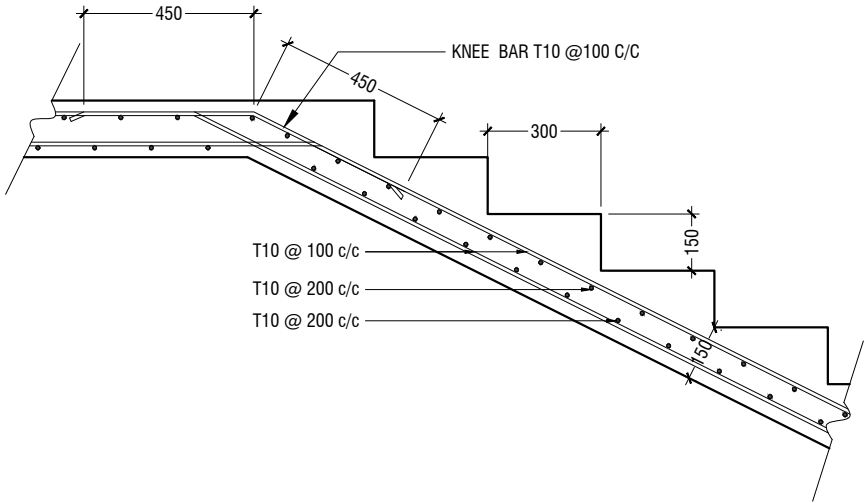
BEAM DETAIL



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

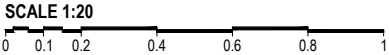


LINTELS OVER ALL DOORS, WINDOWS
(THAT DOES NOT RISE TO ROOF BEAM LEVEL)
LT2 FOR WINDOW (W2) ONLY



MAIN STAIRCASE REINFORCEMENT DETAIL

STRUCTURAL DETAILS - 2



M.Naalaafushi School 06 Classroom (2 story)

Client: Ministry of Education

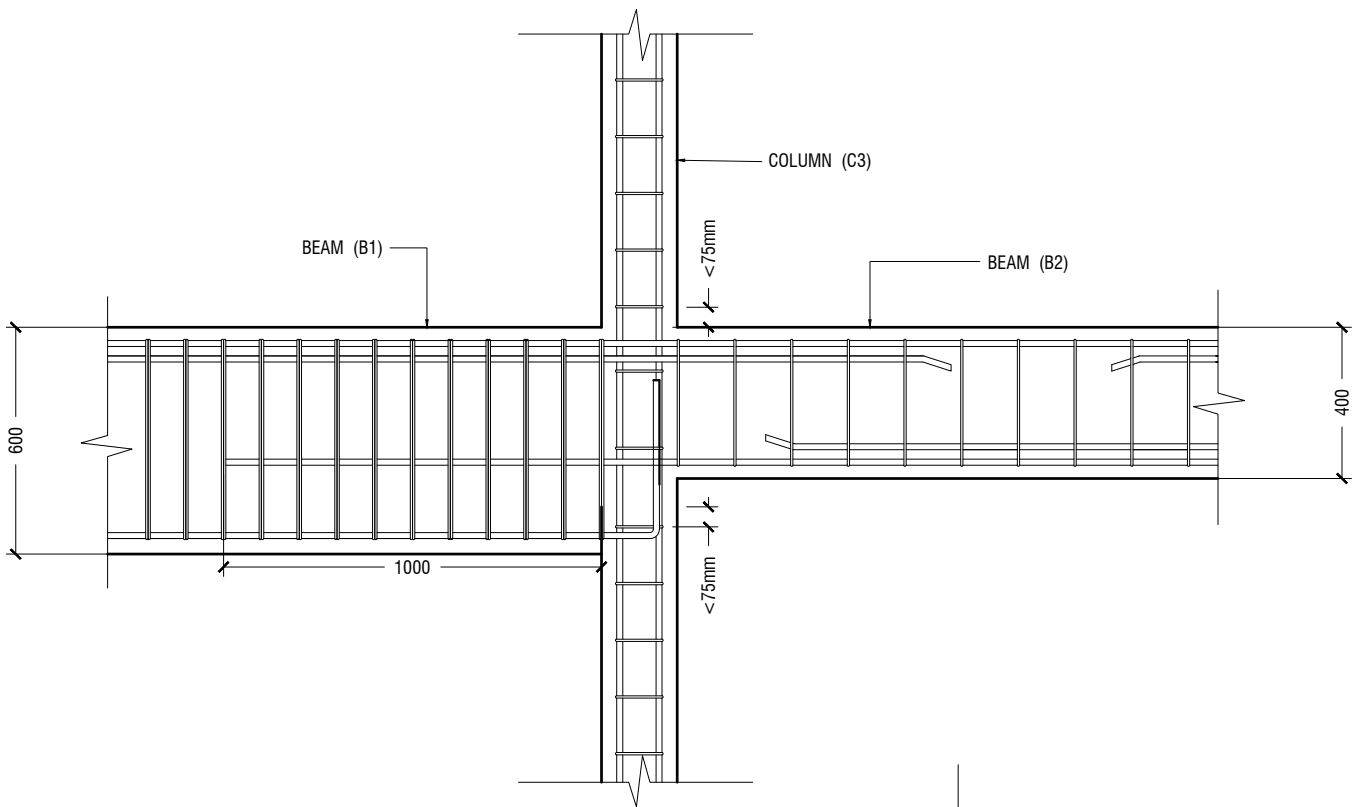
Rev no	Date
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Project Number: RI/2020/006	
Date: April 2021	
Architect: Maryam Irasha Shareef	
Engineer: Mohamed Muththailb Waleed	
Drawn by: Prabhakaran Nadiruthu	
Services: Jose Julius Alzate & Jeffry Caballo	
Interior: -	



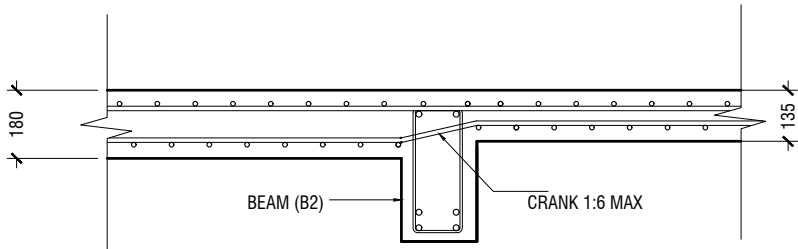
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e: info@ryan.com.mv
w: www.ryan.com.mv
3rd floor, H. Azum, Ameenemagui, Male'

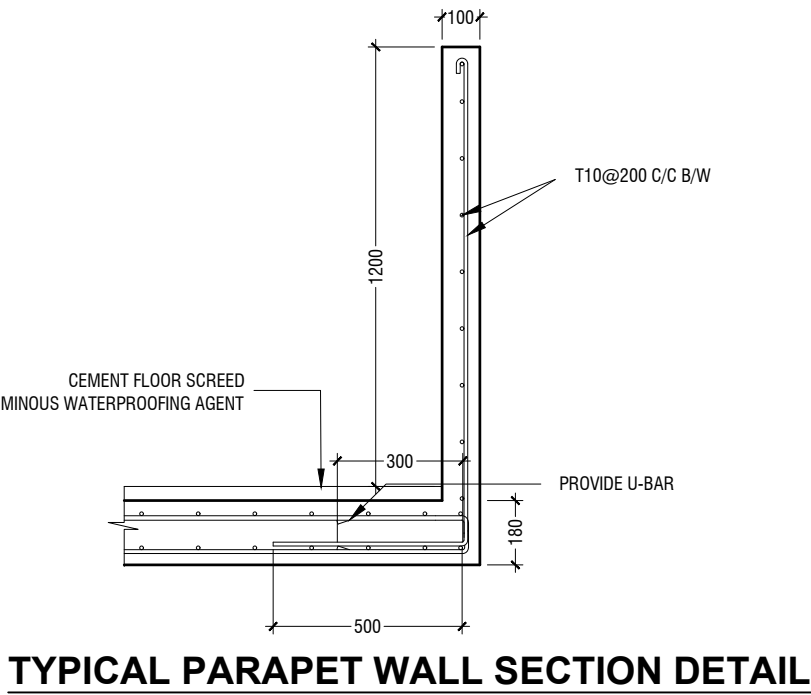
Title: Structural Details 2



B1 TO B2 CONNECTION DETAIL

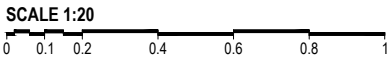


SLAB THICKNESS REDUCTION DETAIL



TYPICAL PARAPET WALL SECTION DETAIL

STRUCTURAL DETAILS - 3



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

Title: Structural Details 3

Page: S-19/19

M.Naalaafushi School 06 Classroom (2 story)
Client: Ministry of Education
Project Number: RI/2020/006
Date: April 2021
Architect : Maryam Irasha Shareef
Engineer : Mohamed Muhtalib Waleed
Drawn by : Prabhakaran Nadiruthu
Services : Jose Julius Alzate & Jeffry Caballo
Interior : -

Rev no	Date
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