

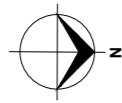
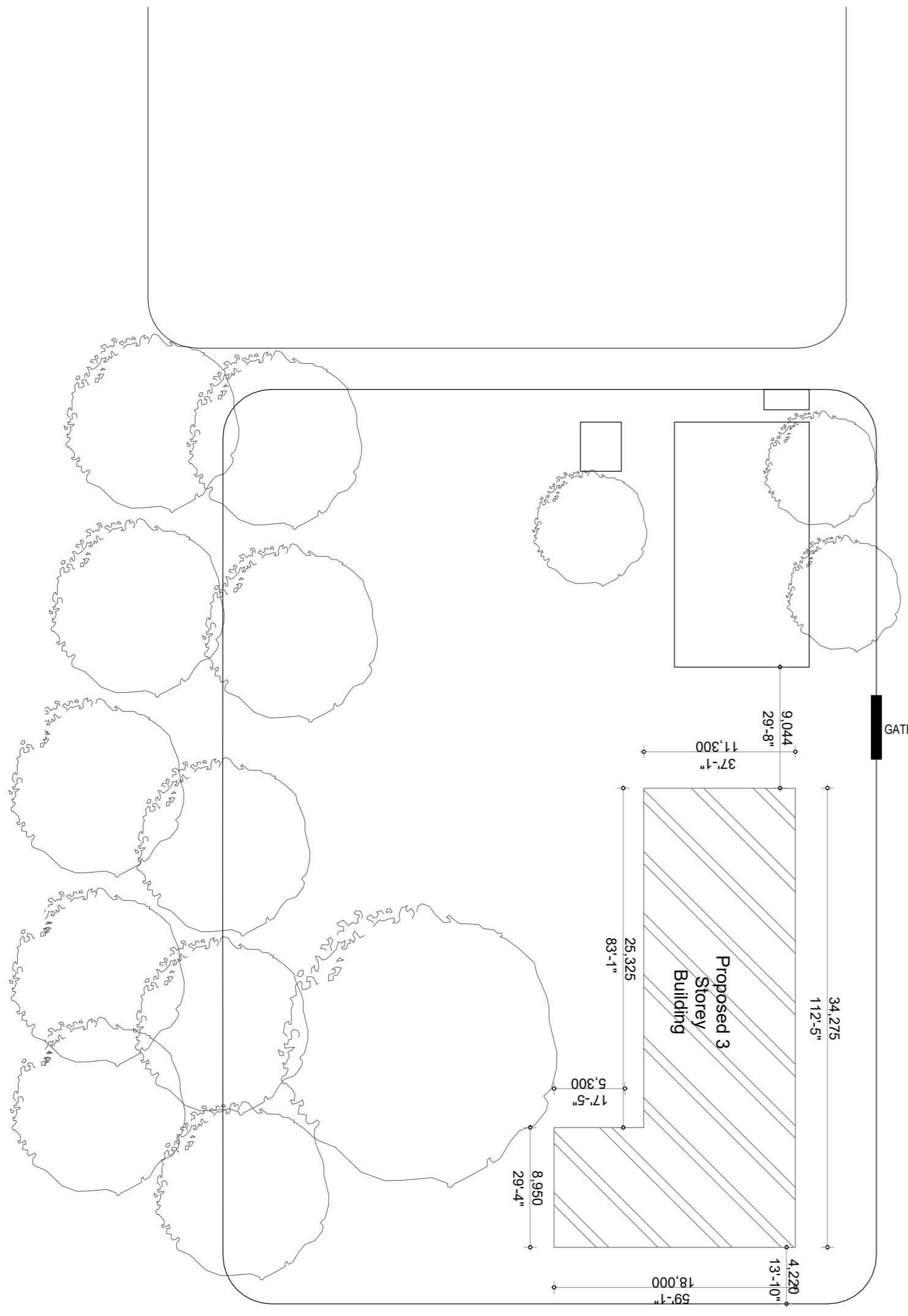
Proposed 10 Classroom, Library, AV Room & Health room
R.FAINU SCHOOL
R. Fainu
(03 Storey)

ARCHITECTURAL & STRUCTURAL DRAWINGS

Ministry of Education
Male', Republic of Maldives

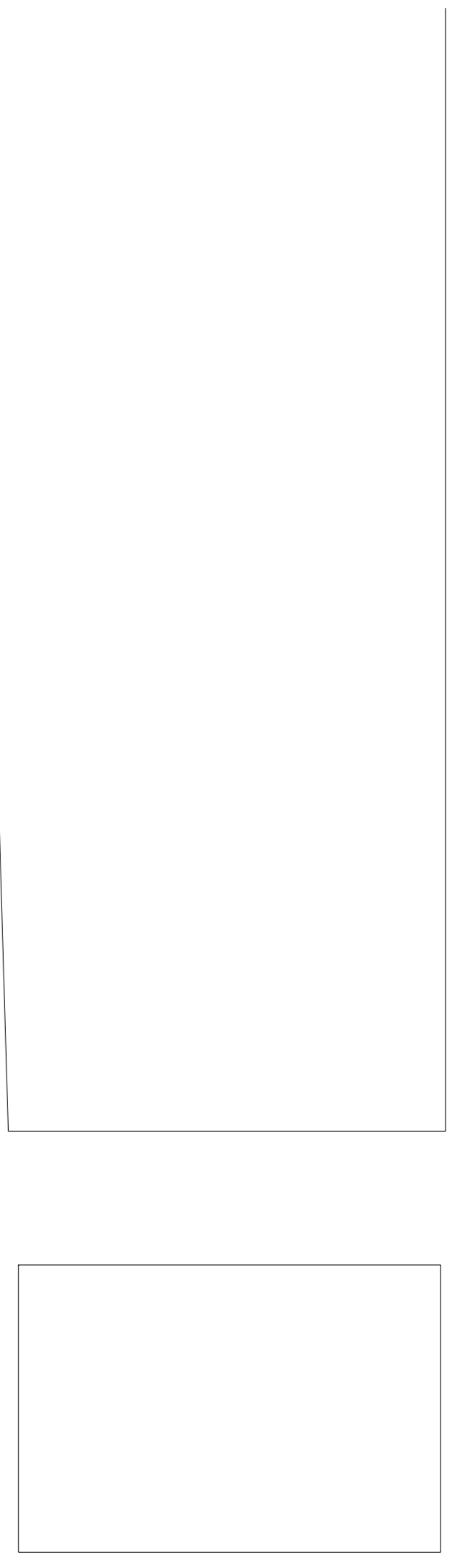
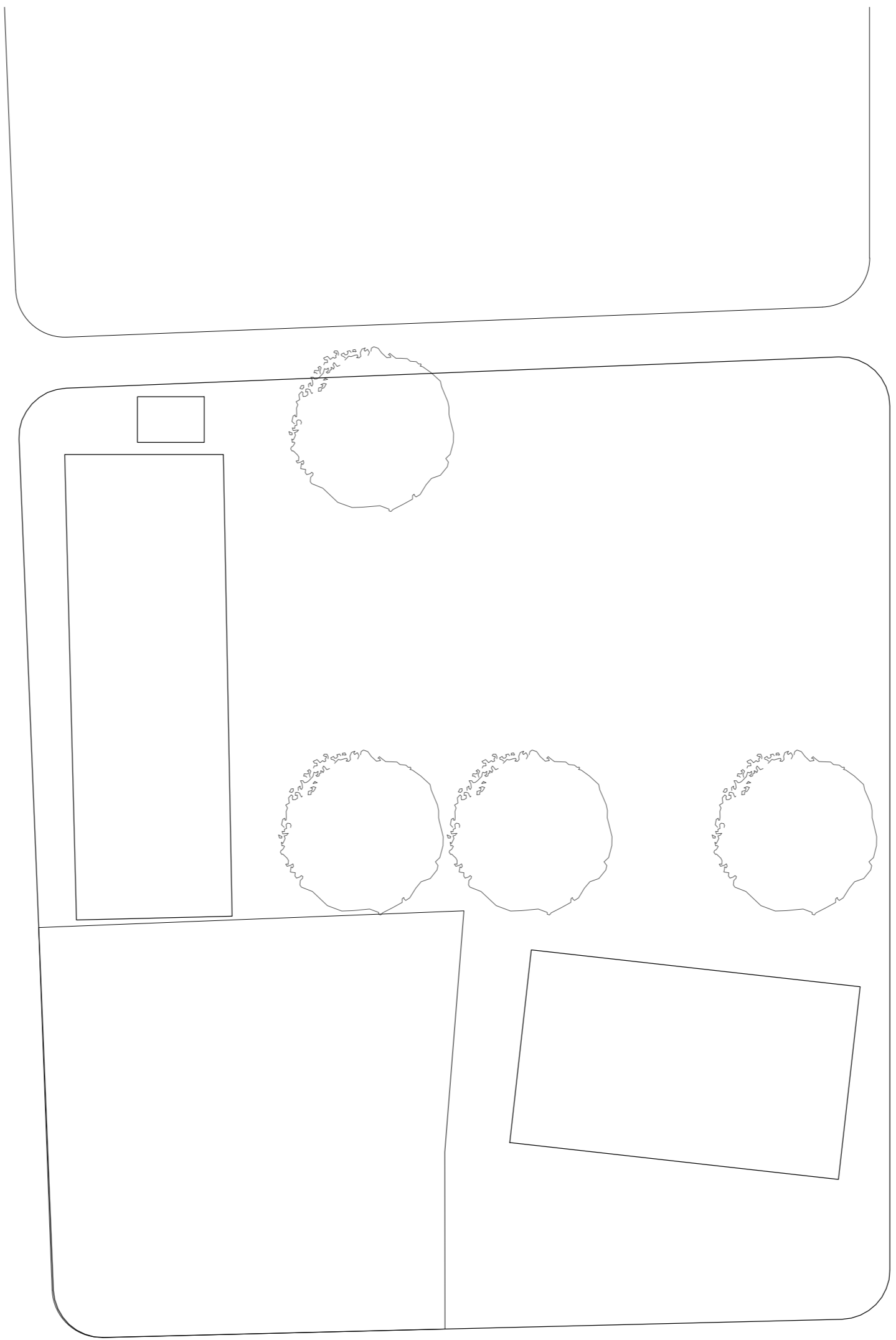
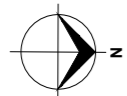
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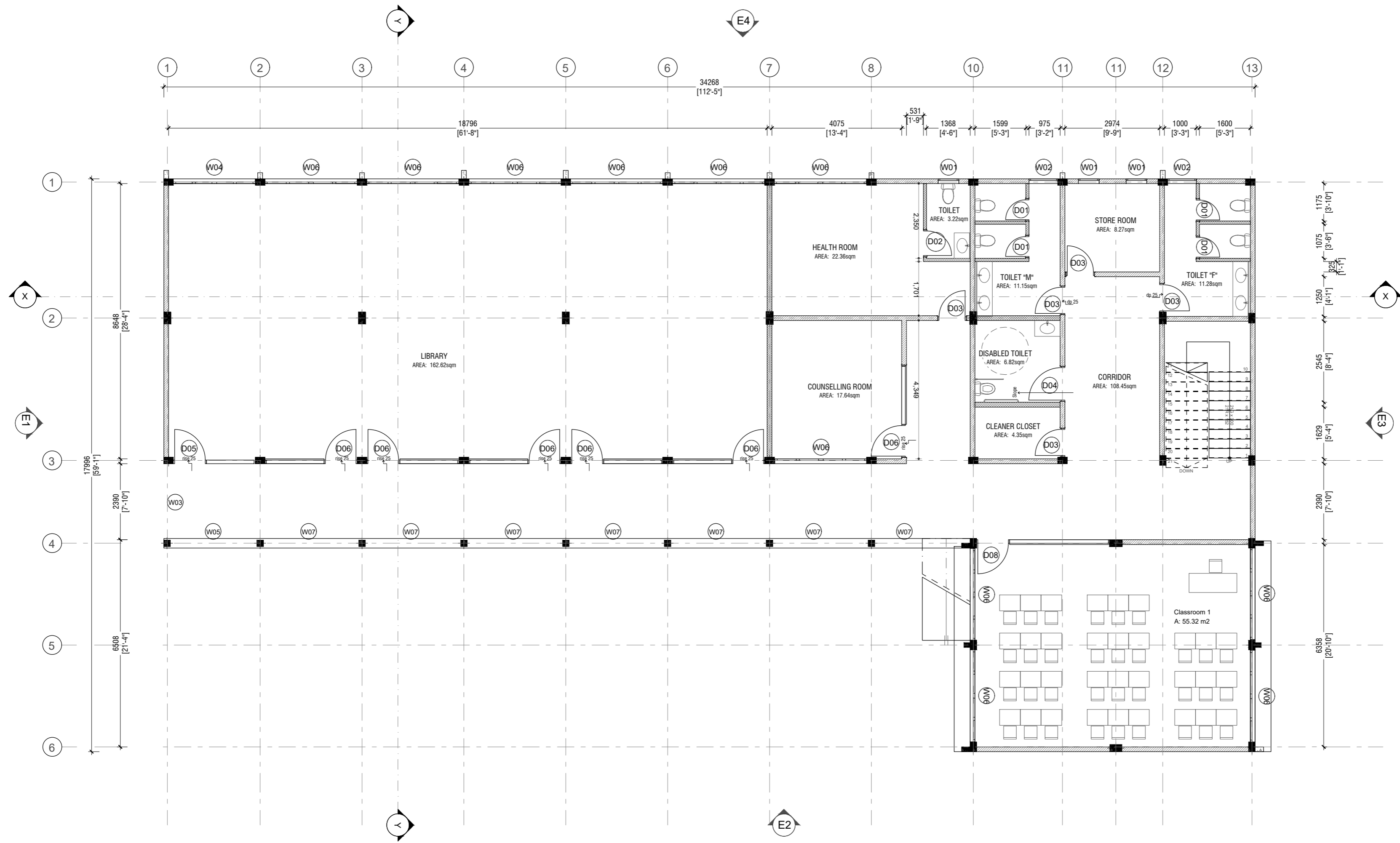


SITE PLAN

SCALE 1:100



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 01 / 22		



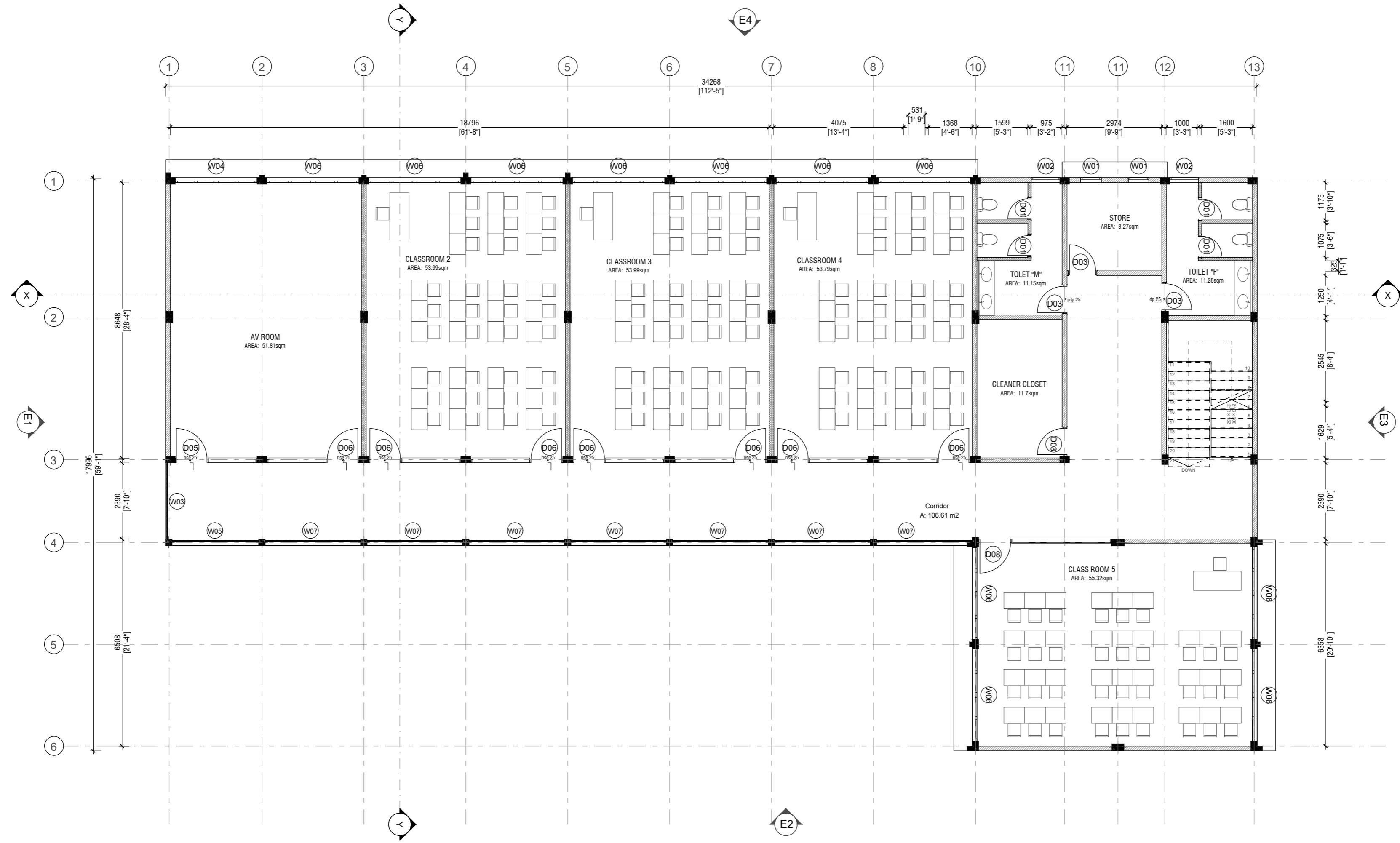
Wall Legend	
2D Plan Preview	Description
	100mm thick reinforced concrete wall per engineers detail, waterproofed with waterproofing agent
	100mm thick solid masonry block exterior wall with 25mm plaster on exterior and 16mm plaster on interior finished with smoothed putty and semi gloss white paint
	100mm thick solid masonry block interior wall with 16mm plaster on both sides finished with smoothed putty and semi gloss white paint
	150mm thick exterior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with semi gloss white paint
	75mm thick solid masonry block interior wall with 16mm plaster on both sides finished with smoothed putty and semi gloss white paint

Zone schedule							
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes	Ceiling Level	Ceiling Finishes	Wall Finishes
Ground Floor	Toilet	3.22	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Classroom 1	55.32	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Cleaner closet	4.35	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Corridor	108.45	+335	300mm X 300mm Ceramic non-skid tiles on 35mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm Plastering, ground smooth in selected paint finish
Ground Floor	Counselling Room	17.64	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Health Room	22.36	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Library	162.62	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish and cement board ceiling to be ground smooth in select paint finish (Refer to services drawing)	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Store	8.27	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Ground Floor	Toilet (F)	11.28	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
Ground Floor	Toilet (M)	11.15	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
Ground Floor	Toilet for disabled	6.82	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles

Note: All heights are taken from Natural Ground Level +00

GROUND FLOOR PLAN
SCALE 1:100

Issue	Date	Description
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PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
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FIRST FLOOR PLAN

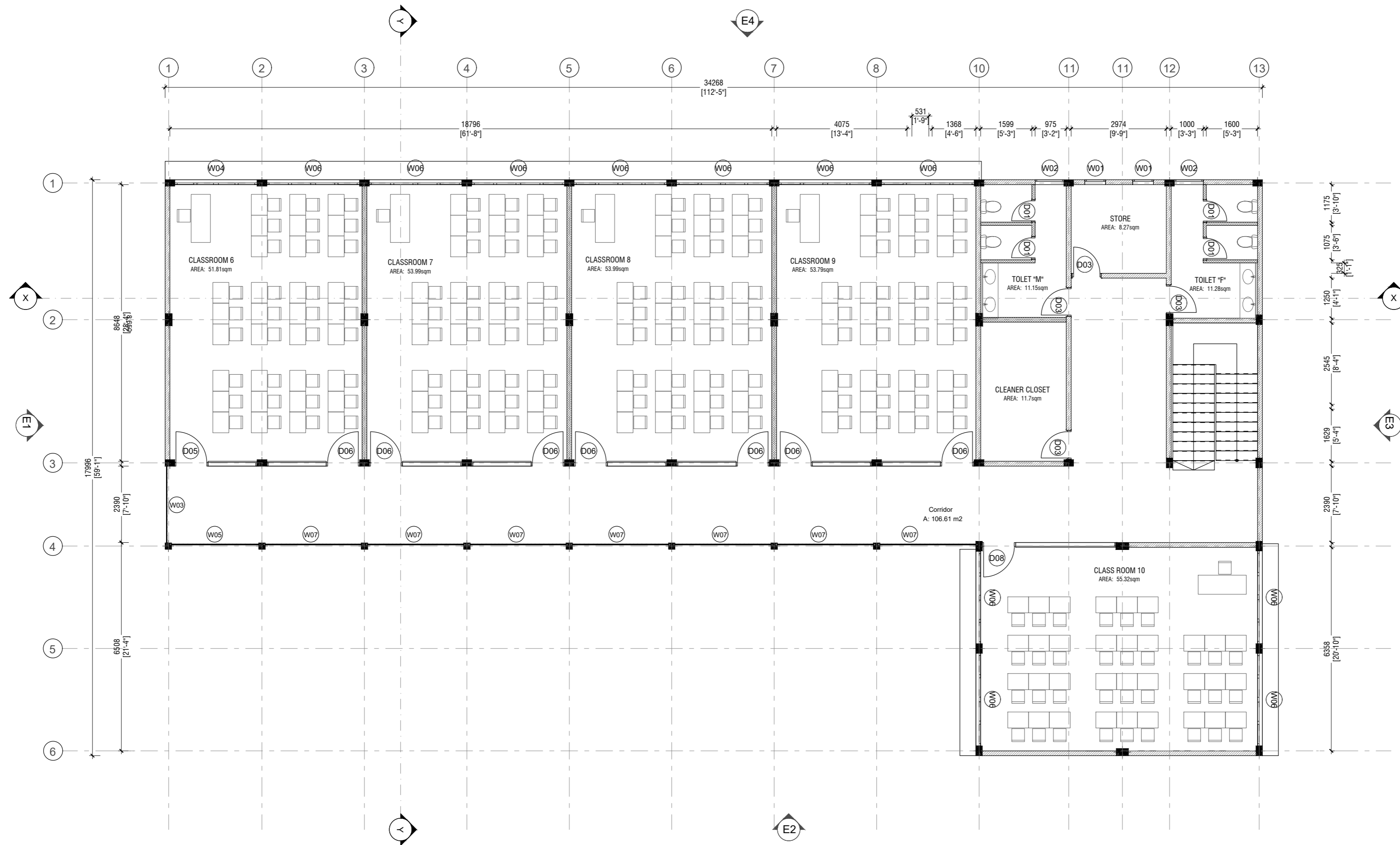
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Wall Legend	
2D Plan Preview	Description
	100mm thick reinforced concrete wall per engineers detail, waterproofed with waterproofing agent
	100mm thick solid masonry block exterior wall with 25mm plaster on exterior and 16mm plaster on interior finished with smoothed putty and semi gloss white paint
	100mm thick solid masonry block interior wall with 16mm plaster on both sides finished with smoothed putty and semi gloss white paint
	150mm thick exterior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with semi gloss white paint
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Home Story	Zone Name	Area (sqm)	Floor Level	Zone schedule			
				Floor Finishes	Ceiling Level	Ceiling Finishes	Wall Finishes
First Floor	AV Room	51.81	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Classroom 2	53.99	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Classroom 3	53.99	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Classroom 4	53.79	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Classroom 5	55.32	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Cleaner Closet	11.70	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
First Floor	Corridor	106.61	+335	300mm X 300mm Ceramic non-skid tiles on 35mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm Plastering, ground smooth in selected paint finish
First Floor	Store	8.27	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
First Floor	Toilet (F)	11.28	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
First Floor	Toilet (M)	11.15	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles

Note: All heights are taken from Natural Ground Level +00

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINNU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
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Wall Legend	
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	150mm thick exterior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with semi gloss white paint
	75mm thick solid masonry block interior wall with 16mm plaster on both sides finished with smoothed putty and semi gloss white paint

Zone schedule							
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes	Ceiling Level	Ceiling Finishes	Wall Finishes
Second Floor	Classroom 10	55.32	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Classroom 6	51.81	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Classroom 7	53.99	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Classroom 8	53.99	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Classroom 9	53.79	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Cleaner Closet	11.70	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
Second Floor	Corridor	106.61	+335	300mm X 300mm Ceramic non-skid tiles on 35mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm Plastering, ground smooth in selected paint finish
Second Floor	Store	8.27	+350	600mm X 600mm Homogenous non-skid tiles on 50mm screed	+3350	Exposed slab soffit to be ground smooth in select paint finish	16mm plaster, applied with ground smooth finished with selected paint
Second Floor	Toilet (F)	11.28	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles
Second Floor	Toilet (M)	11.15	+325	300mm X 300mm Homogenous non-slip tiles over 50mm screeding	+2900	Cement board ceiling to be ground smooth in select paint finish	300mm X 300mm Homogenous wall tiles

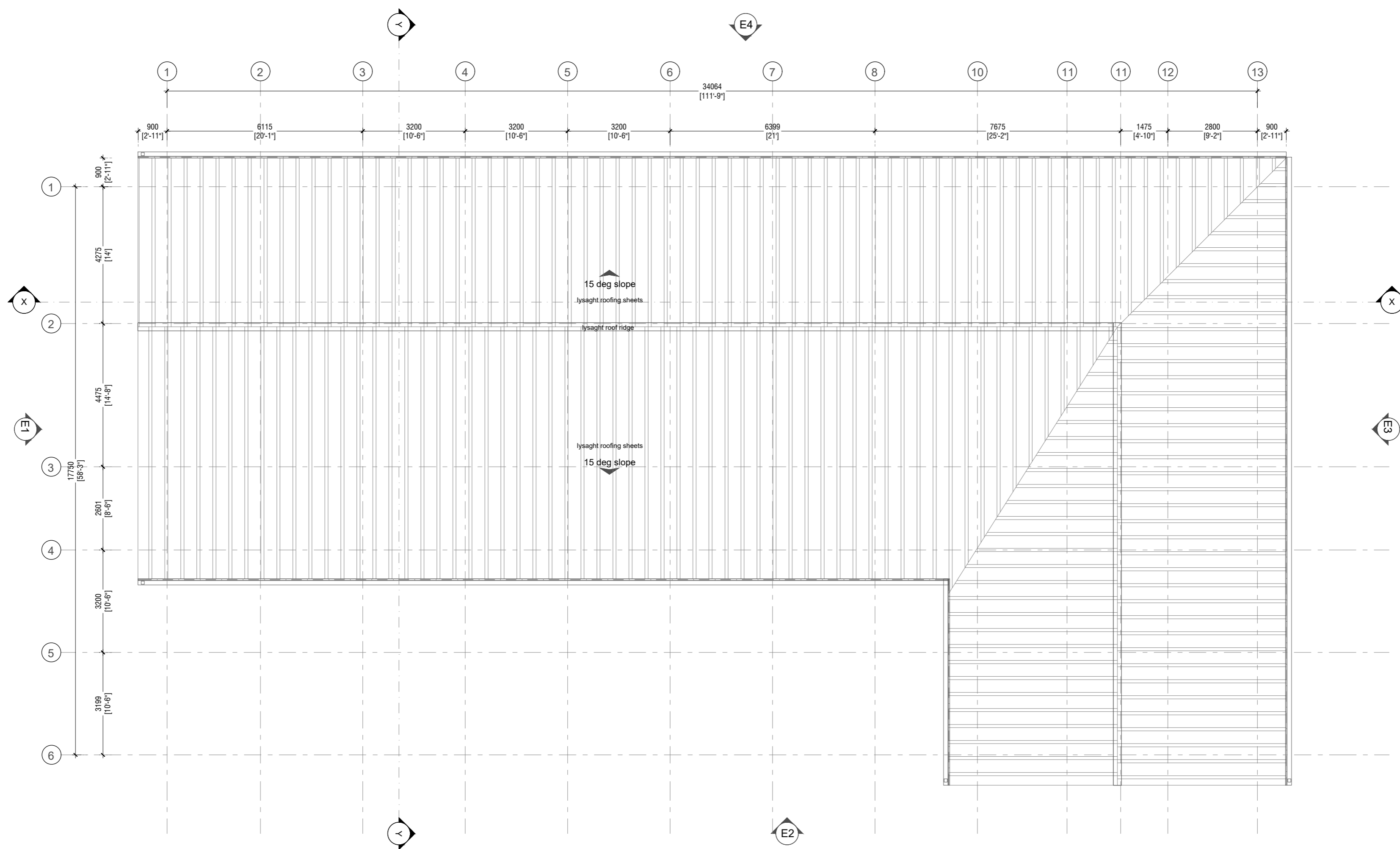
Note: All heights are taken from Natural Ground Level +00

SECOND FLOOR PLAN

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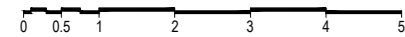


Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT : MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 01 / 22		

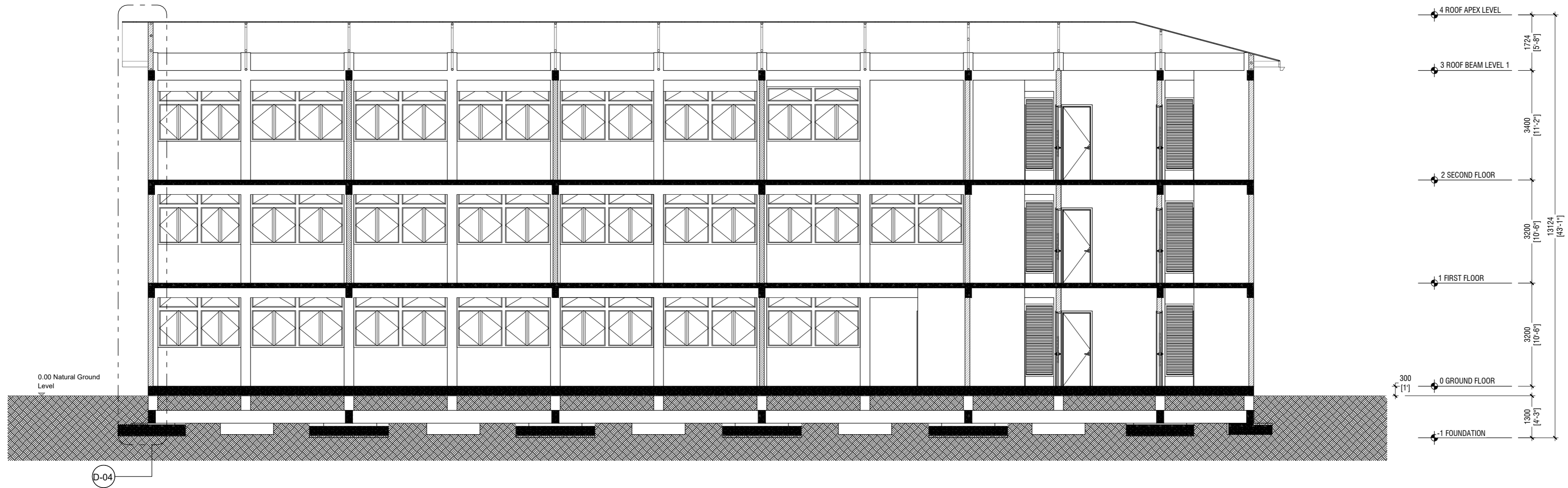


ROOF PLAN

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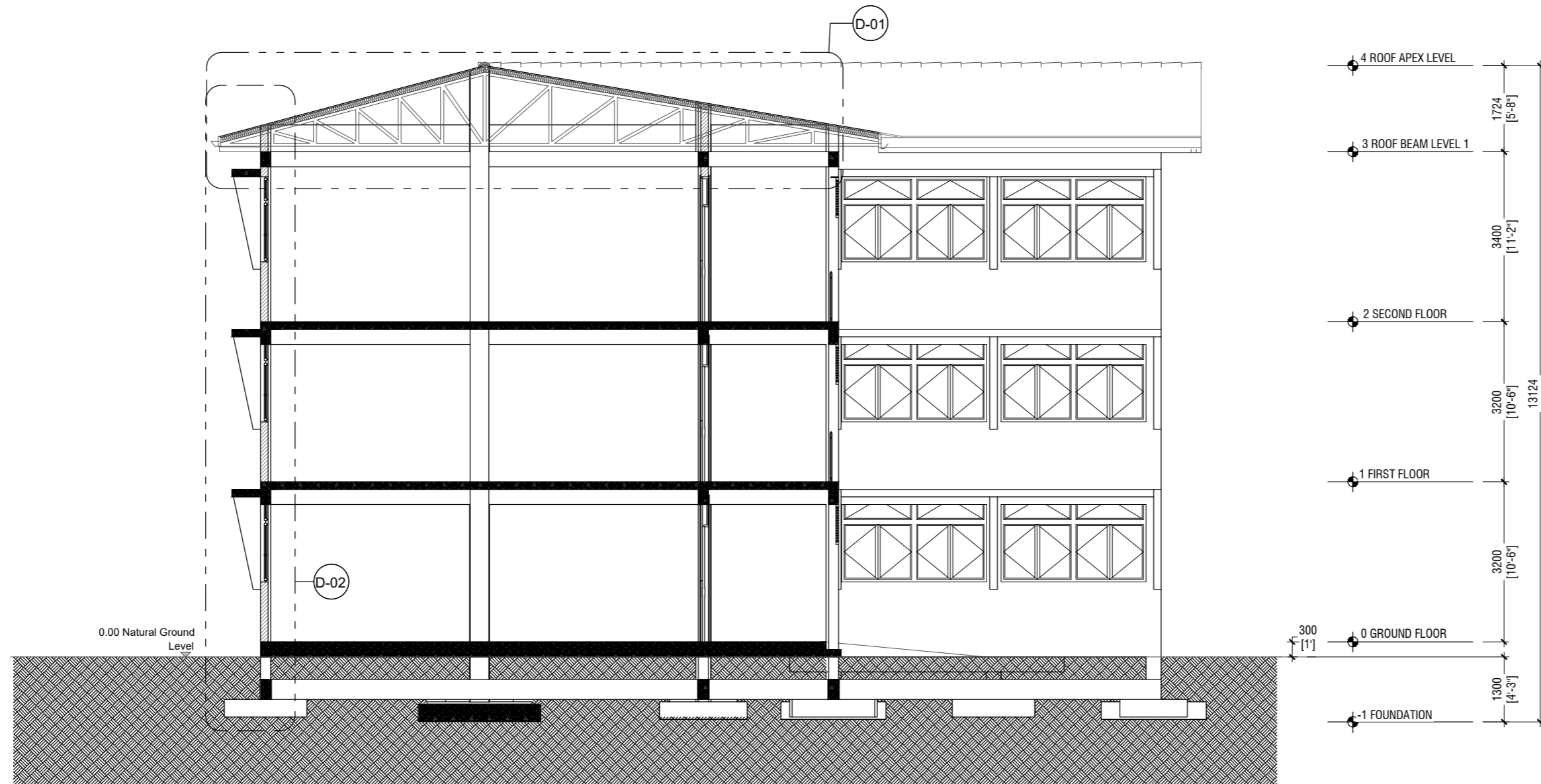


Issue	Date	Description
AMMENDMENTS		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT : MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
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CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 01 / 22		



SECTION XX

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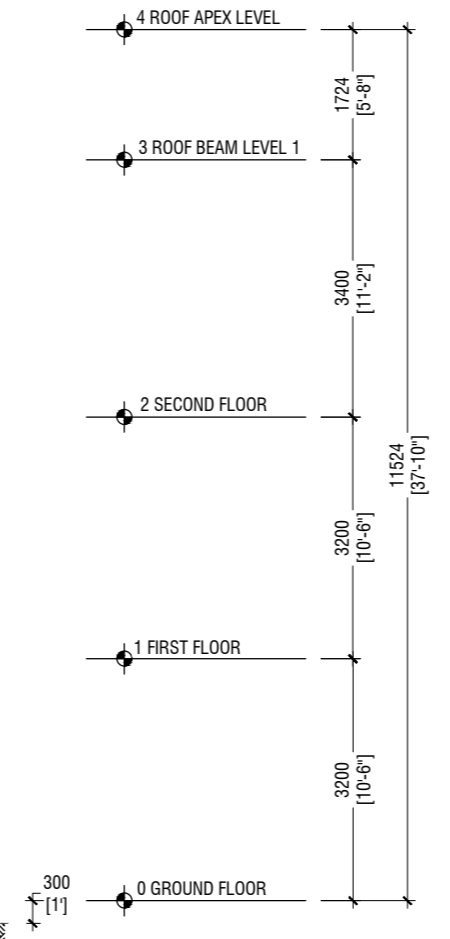


SECTION YY

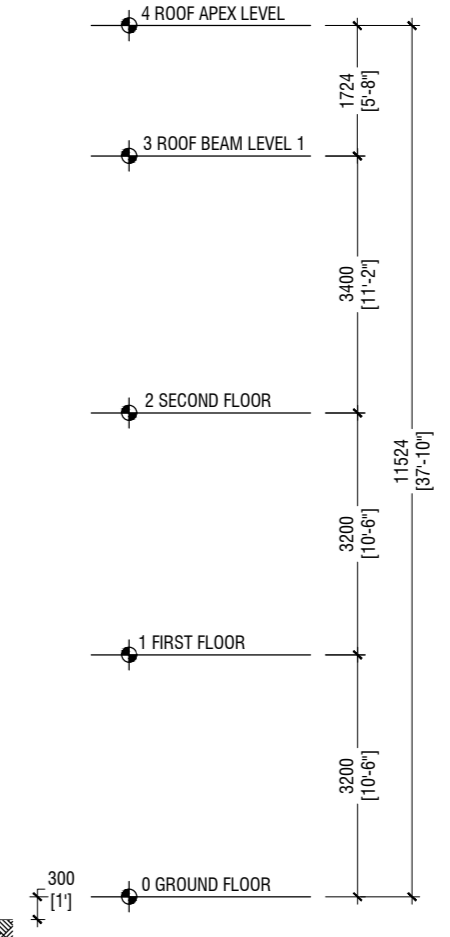
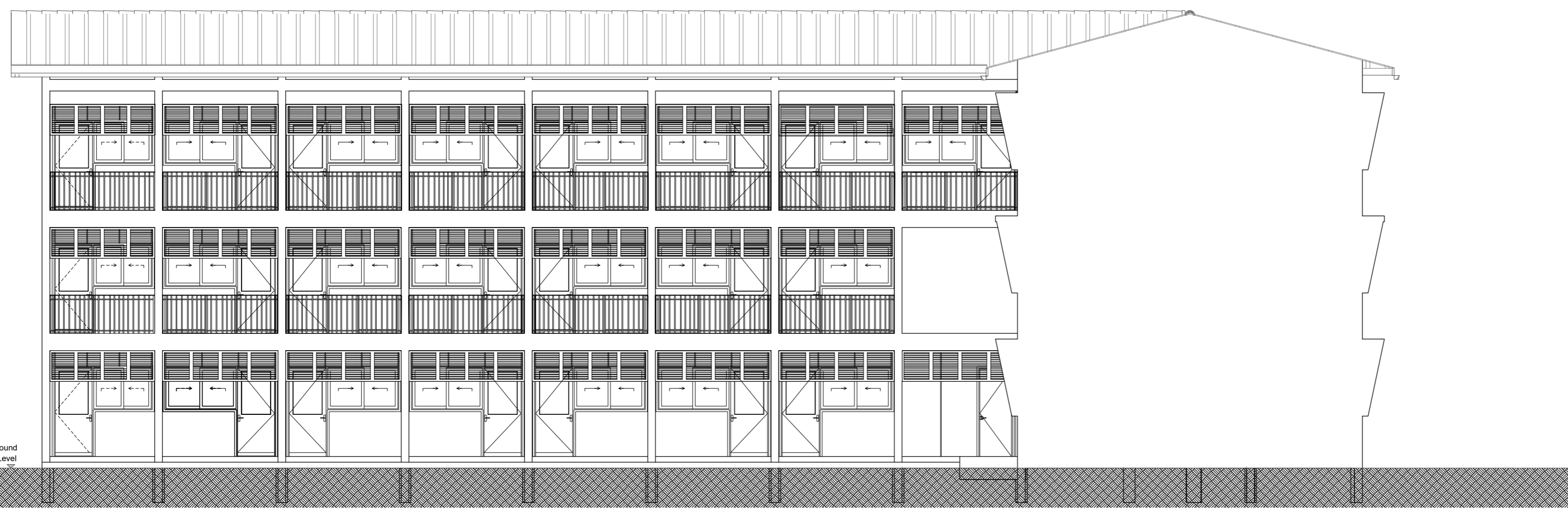
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Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINNU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
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CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 01 / 22		

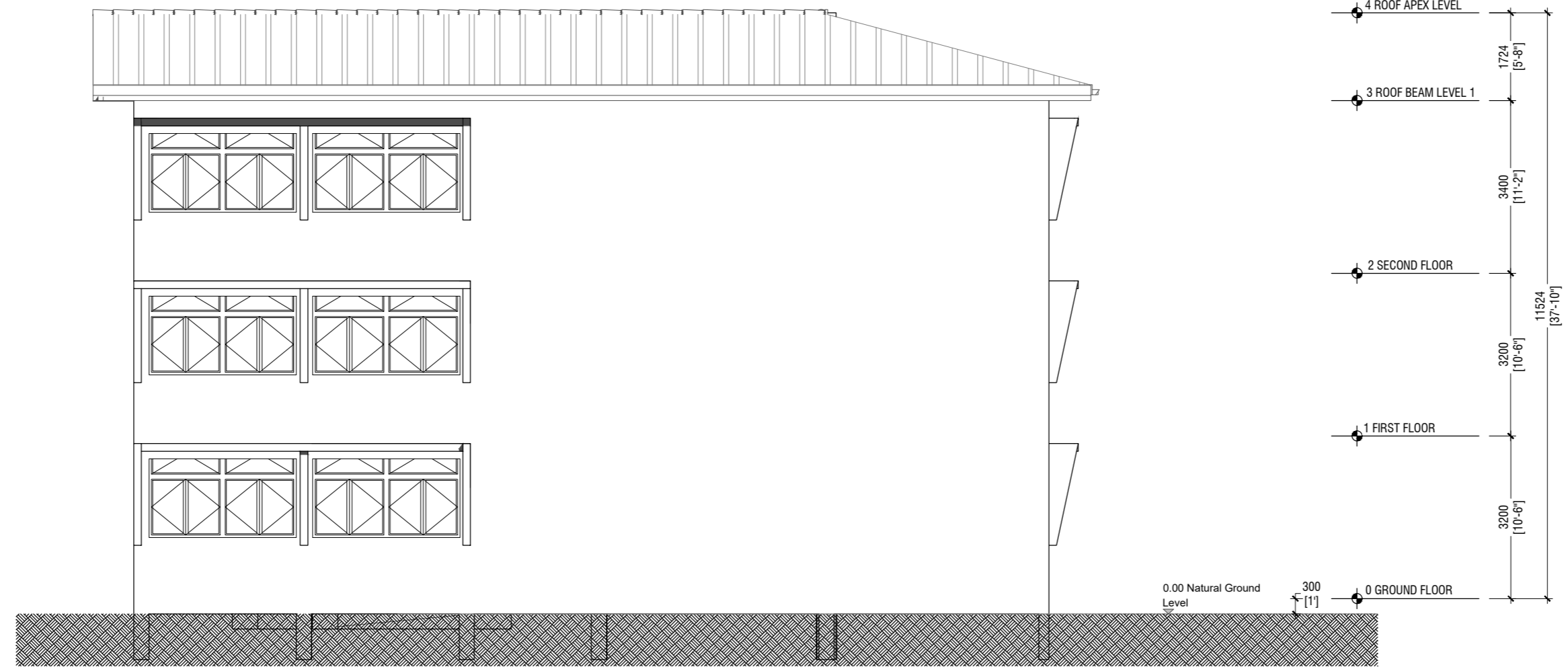


ELEVATION E1
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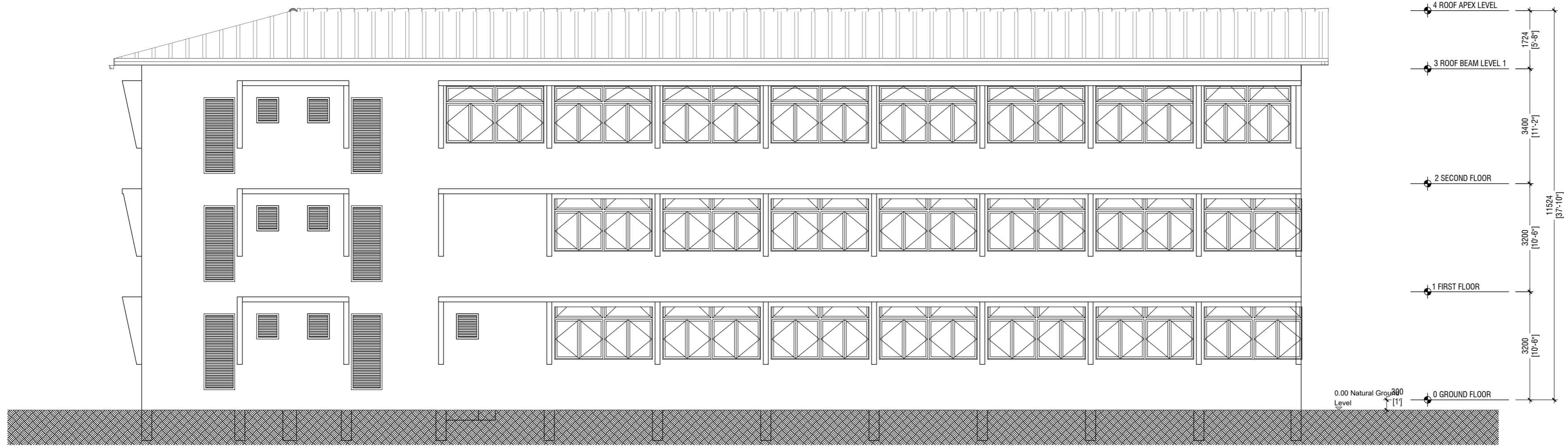
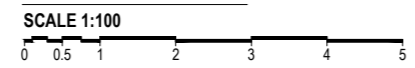


ELEVATION E2
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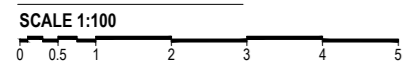
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT: MINISTRY OF EDUCATION		
ARCHITECT:		
ENGINEER:		
DRAWN:		
CHECKED:		
SCALE: AS GIVEN		
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DWG NO: A 01 / 22		



ELEVATION E3



ELEVATION E4



Issue	Date	Description
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PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 01 / 22		

All Openings Schedule						
Element ID	D01	D02	D03	D04	D05	D06
Quantity	12	1	13	1	3	20
W x H Size	700x2,300	850x2,300	900x2,300	1,100x2,300	2,575x2,900	2,900x2,900
2D Symbol						
View from Side Opposite to Opening Side						
Frame Outside	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour
Leaf Outside	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	50mm Thick powder coated (60 microns) Aluminum panel of selected colour
Glass	(No Glazing)	No Glazing	(No Glazing)	(No Glazing)	Clear Glass	Clear Glass
Sash Outside	---	---	---	---	---	---

DOOR & WINDOW SCHEDULE - 1

SCALE 1:50
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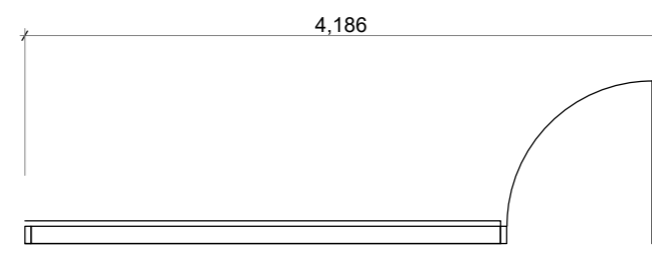
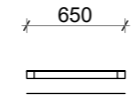
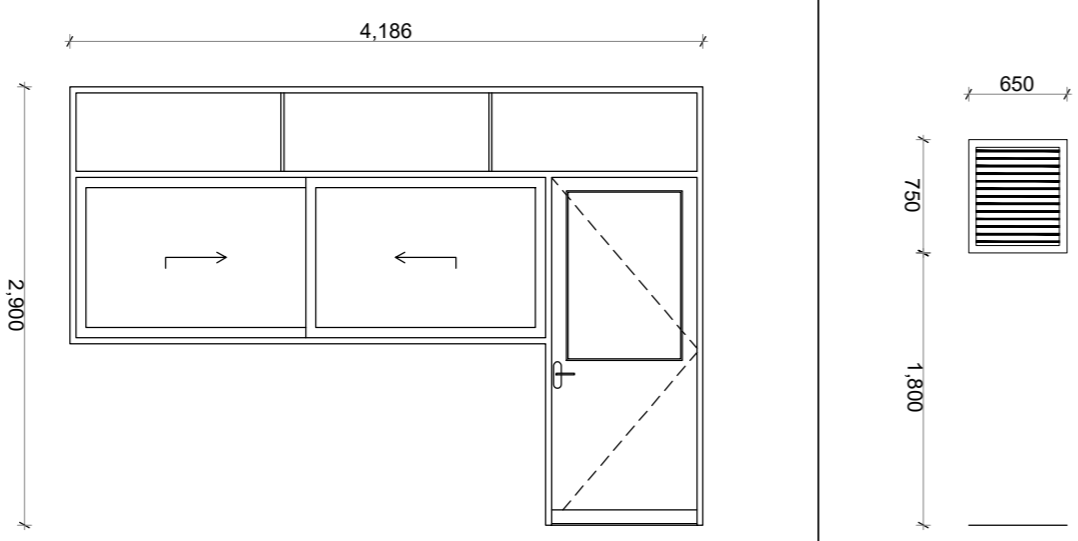
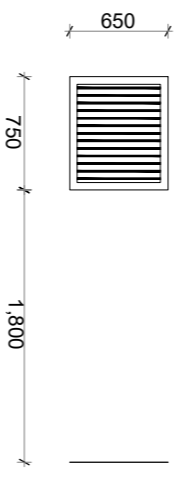
Issue	Date	Description
AMMENDMENTS.		
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PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
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SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 09 / 22		

All Openings Schedule					
Element ID	D08	W01	W02	W03	W04
Quantity	3	7	6	3	3
W x H Size	4,186x2,900	650x750	911x2,250	2,402x800	2,575x1,700
2D Symbol					
View from Side Opposite to Opening Side					
Frame Outside	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour
Leaf Outside	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	---	---	---	---
Glass	Clear Glass	---	---	---	---
Sash Outside	---	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour	50mm Thick powder coated (60 microns) Aluminum panel of selected colour

DOOR & WINDOW SCHEDULE - 2

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 10 / 22		

All Openings Schedule		
Element ID	D08	W01
Quantity	3	7
W x H Size	4,186x2,900	650x750
2D Symbol		
View from Side Opposite to Opening Side		
Frame Outside	50mm Thick powder coated (60 microns) Aluminum frame of selected colour	50mm Thick powder coated (60 microns) Aluminum frame of selected colour
Leaf Outside	50mm Thick powder coated (60 microns) Aluminum panel of selected colour	---
Glass	Clear Glass	---
Sash Outside	---	50mm Thick powder coated (60 microns) Aluminum louvers of selected colour

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame
All measurements to be verified by manufacturer

All aluminium Doors / Windows

Aluminium frame profiles shall be 35-50mm x 100mm (minimum 1.6mm thick)

Aluminium panels should be a minimum 6mm thick single sheet within an aluminium profile of 35-50mm x 100mm (minimum 1.6mm thick)

All Timber Doors / Windows

Timber Door frame shall be 50mm x 100mm hardwood.

All door panel thicknesses are 40mm thick solid core.

All frame edges shall be trimmed 3mm

All wooden components should be wood stained finish

All glazing should be of 6mm unless specified

External units must comply the following weather conditions:-

Wind pressure: 200 kg/sqm
Water tightness: 25 kg/sqm

All external frames / wall joints must be sealed with silicon sealant and the wedges trimmed with 12 X 12mm hardwood beading fixed to frames by brass nails

All hardware should be provided for the performance of all functions of the units

Hinges shall confirm to

- Door size more than 700X900mm
WD: 125mm X 2 sets
SD: 150mm X 3 sets
- Door size less than 700 X 1900mm
WD: 100mm X 2 sets
SD: 125mm X 2 sets

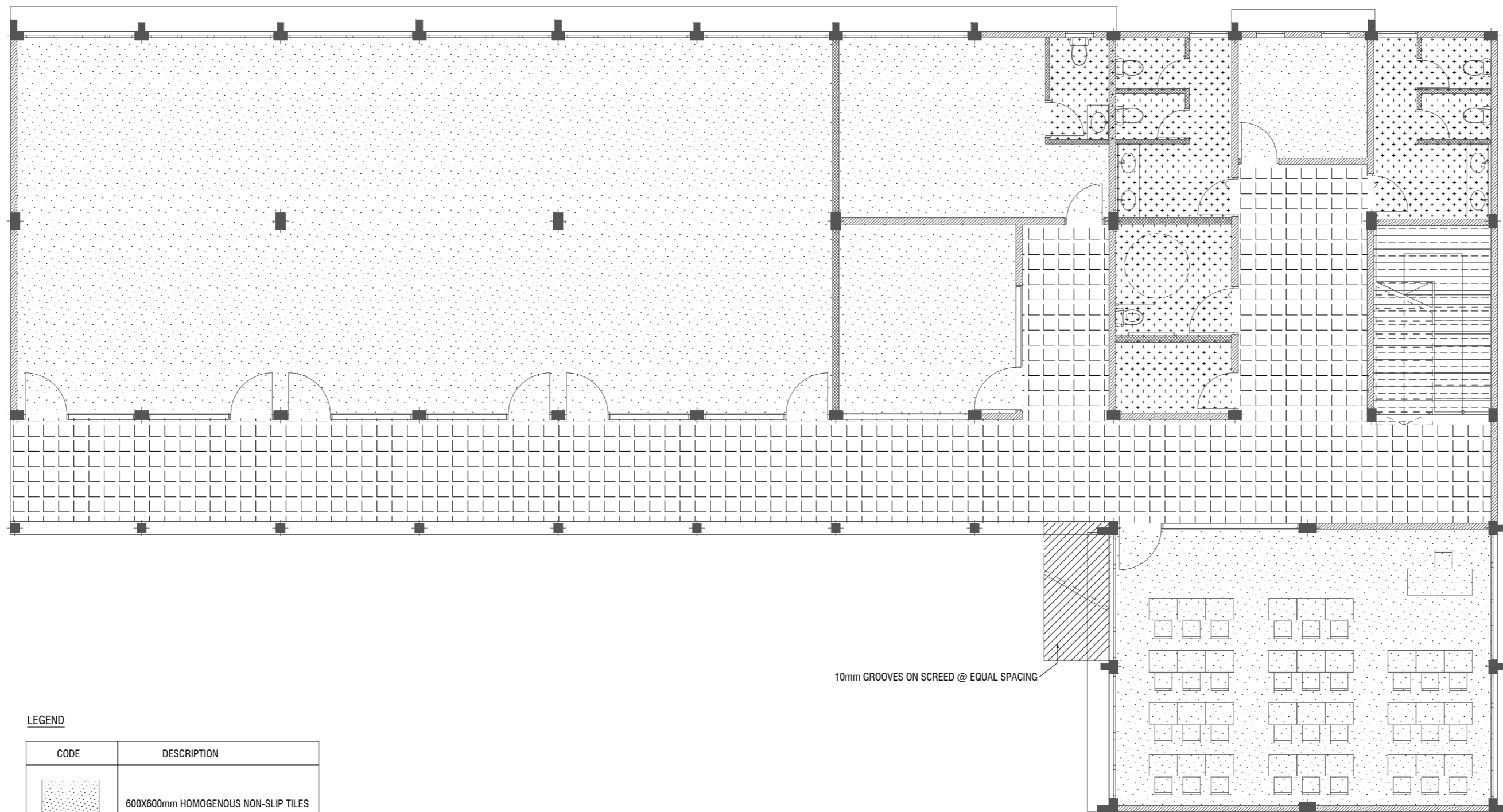
Locks shall be cylindrical with master key sets

Door knobs shall be 1000mm above FFL

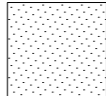
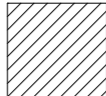
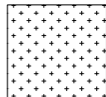
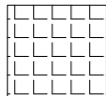
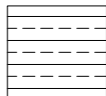
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 11 / 22		

DOOR & WINDOW SCHEDULE - 3

SCALE 1:50
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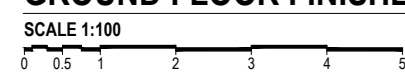


LEGEND

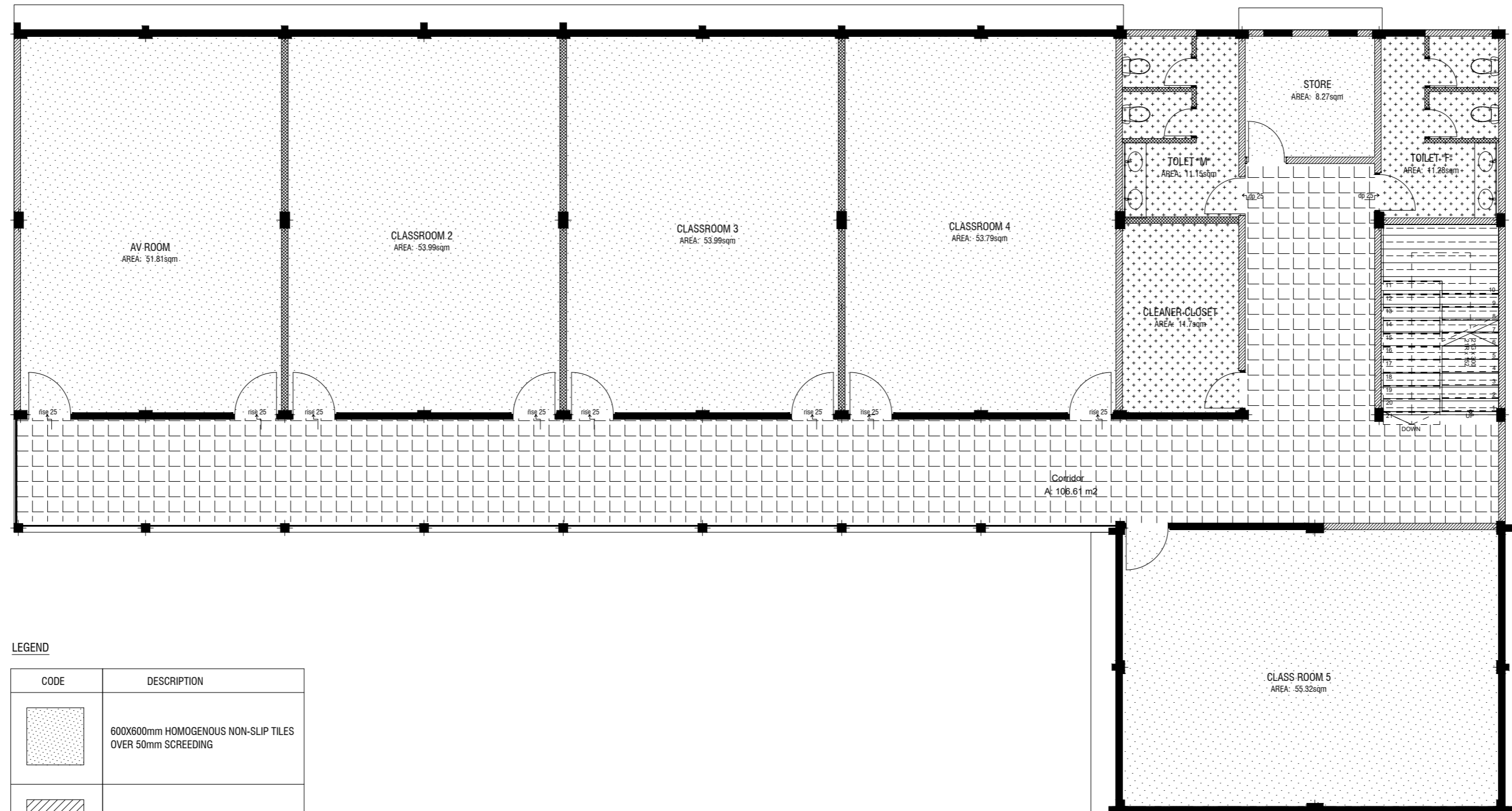
CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY)
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (APPLY SYNTHETIC WATERPROOFING ON SLAB)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS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

10mm GROOVES ON SCREED @ EQUAL SPACING

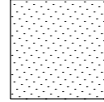
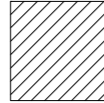
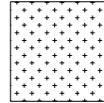
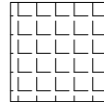

GROUND FLOOR FINISHES



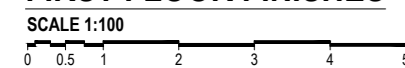
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 12 / 22		



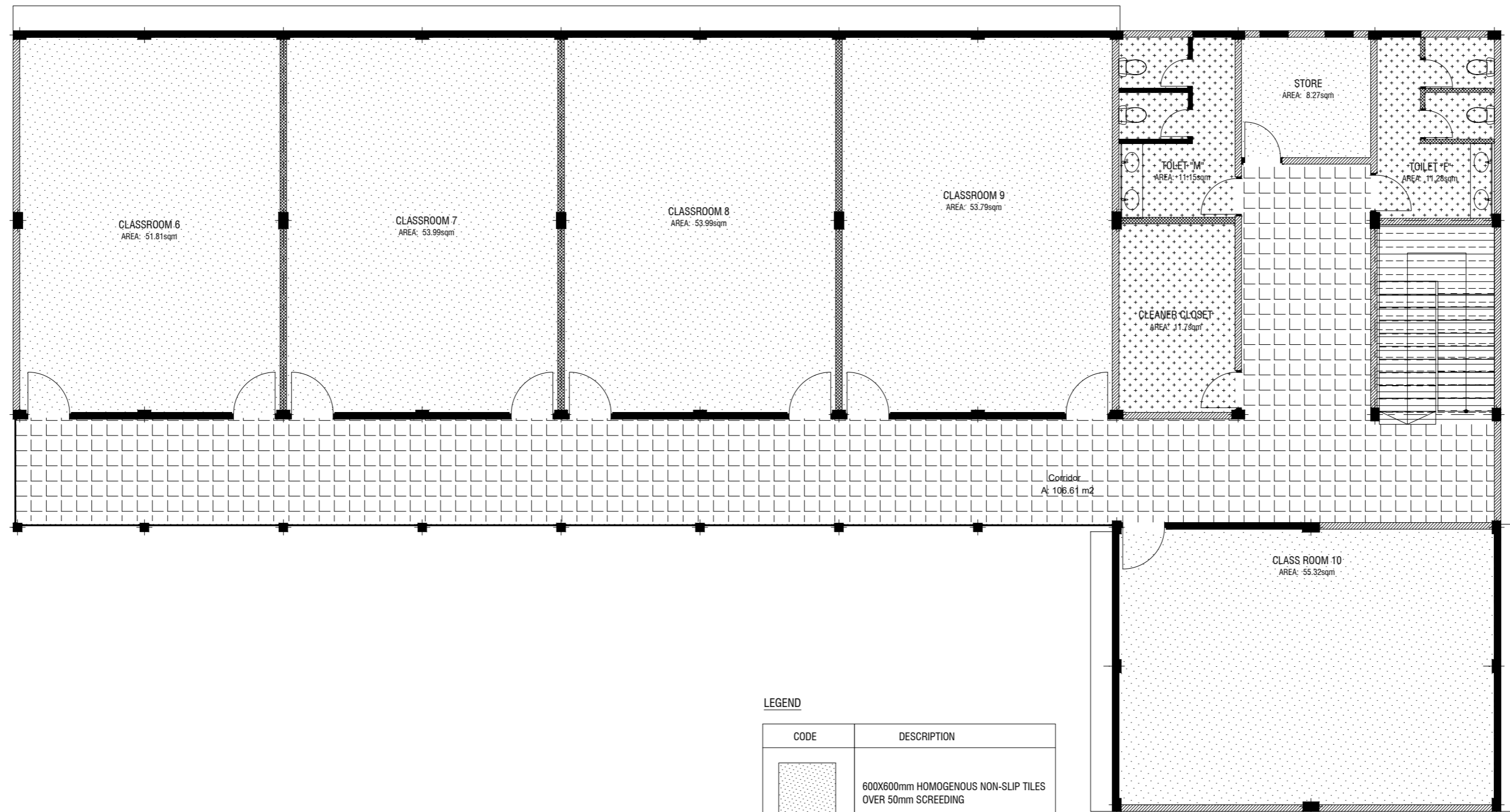
LEGEND

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)
	HOMOGENOUS NON-SLIP STEP TILES WITH GROVE OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)

FIRST FLOOR FINISHES



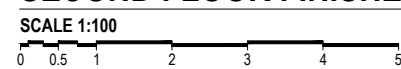
Issue	Date	Description
AMMENDMENTS		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 13 / 22		



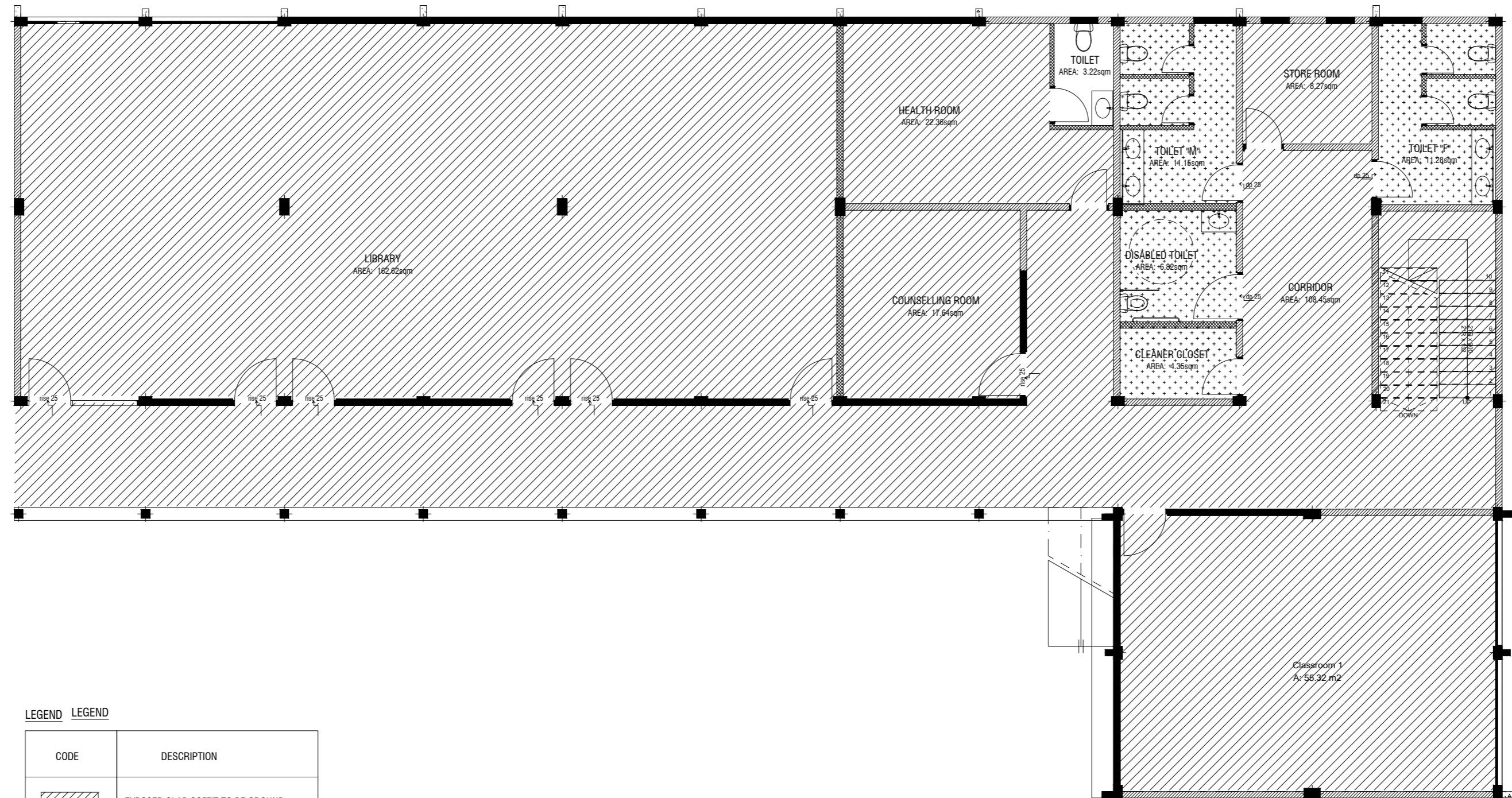
LEGEND

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)
	HOMOGENOUS NON-SLIP STEP TILES WITH GROVE OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING; MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)

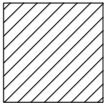
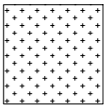
SECOND FLOOR FINISHES



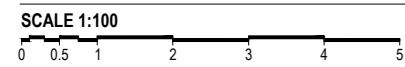
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALÉ, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
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CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 14 / 22		



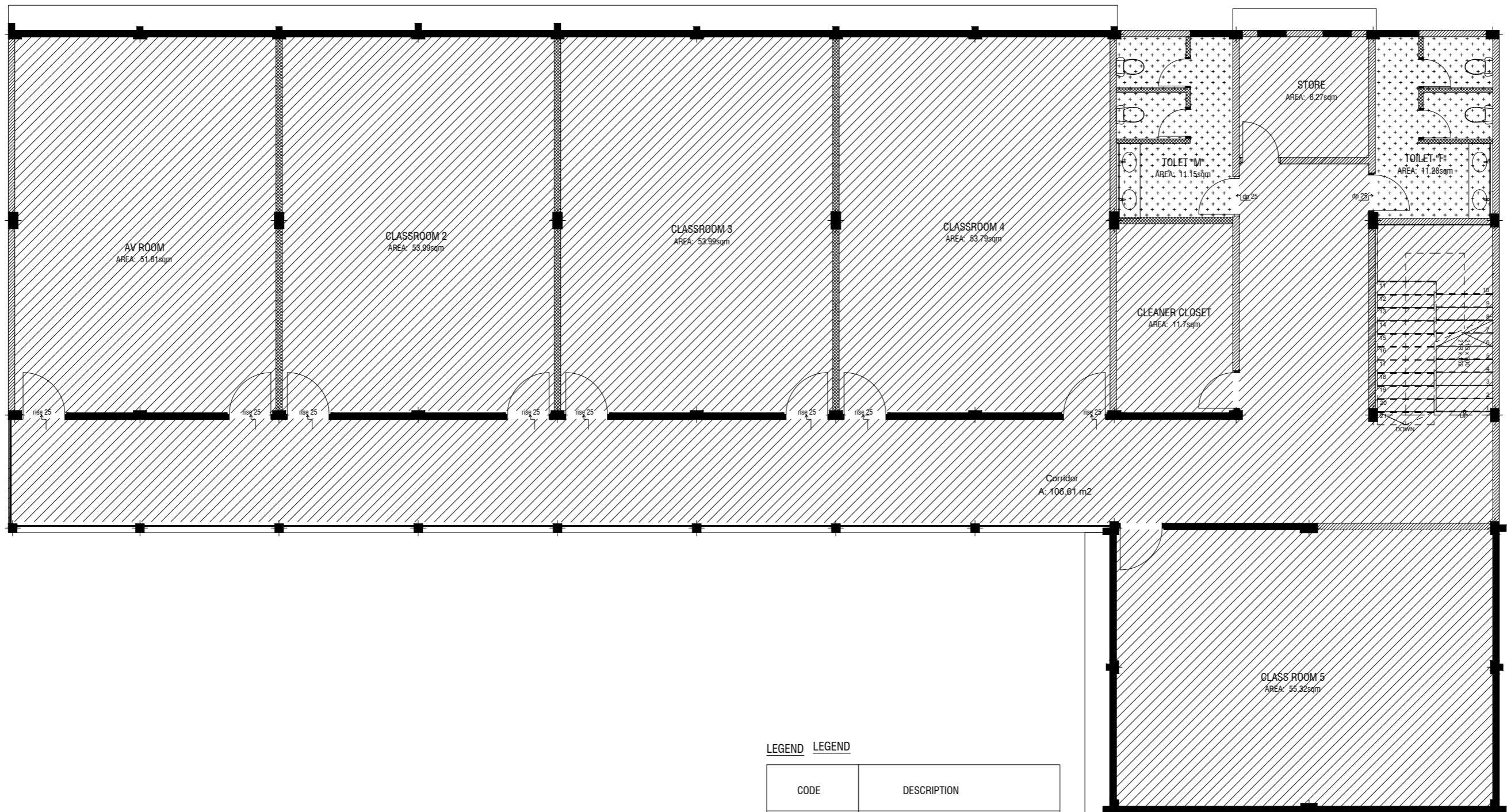
LEGEND LEGEND

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)

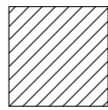
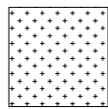
GROUND FLOOR - REFLECTIVE CEILING PLAN



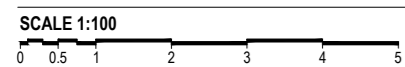
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
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SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 15 / 22		



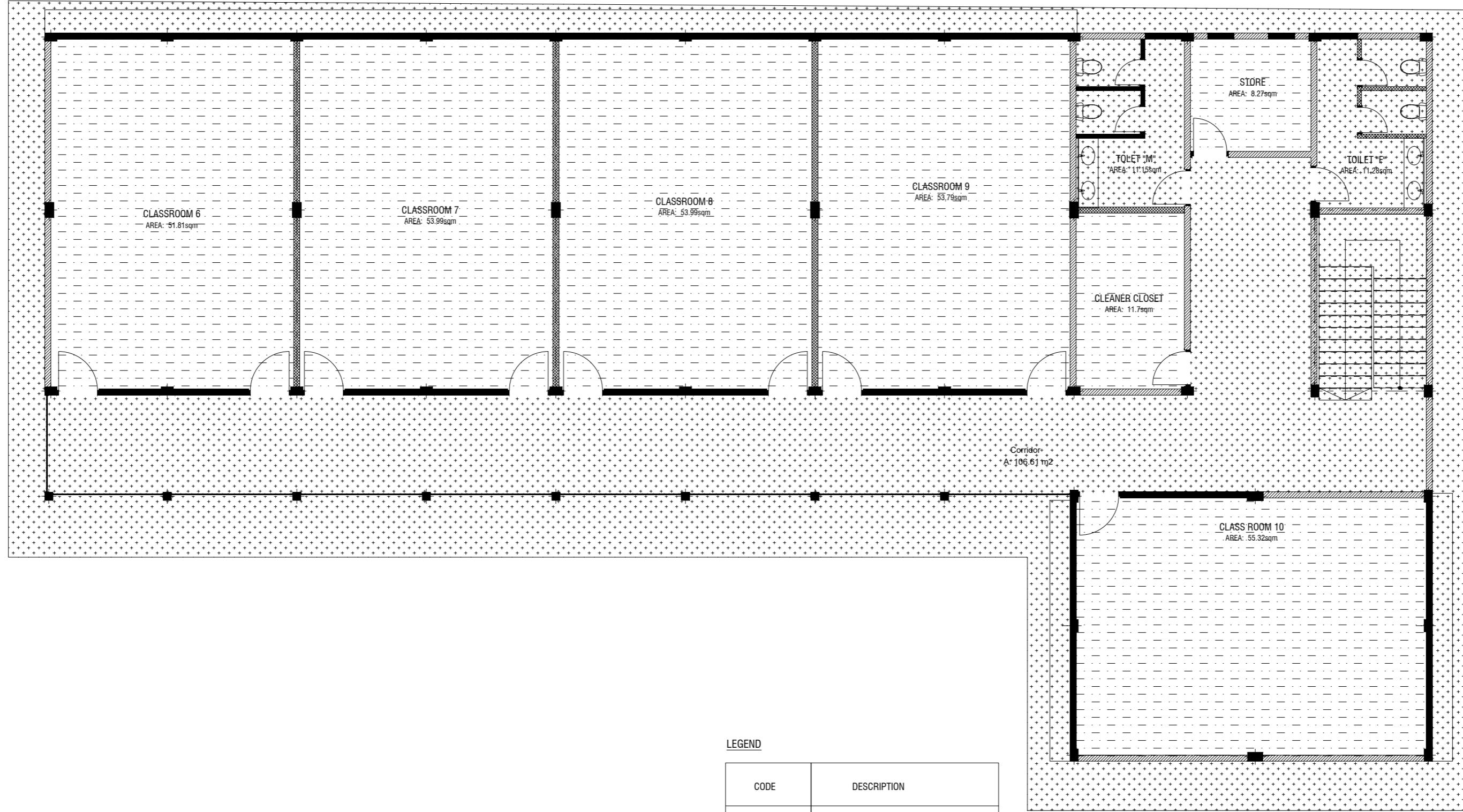
LEGEND LEGEND

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)
	8mm THICK CEMENT BOARD CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)

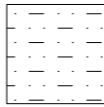
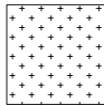
FIRST FLOOR - REFLECTIVE CEILING PLAN



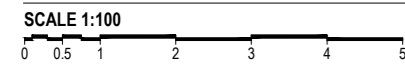
Issue	Date	Description
AMMENDMENTS:		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 16 / 22		



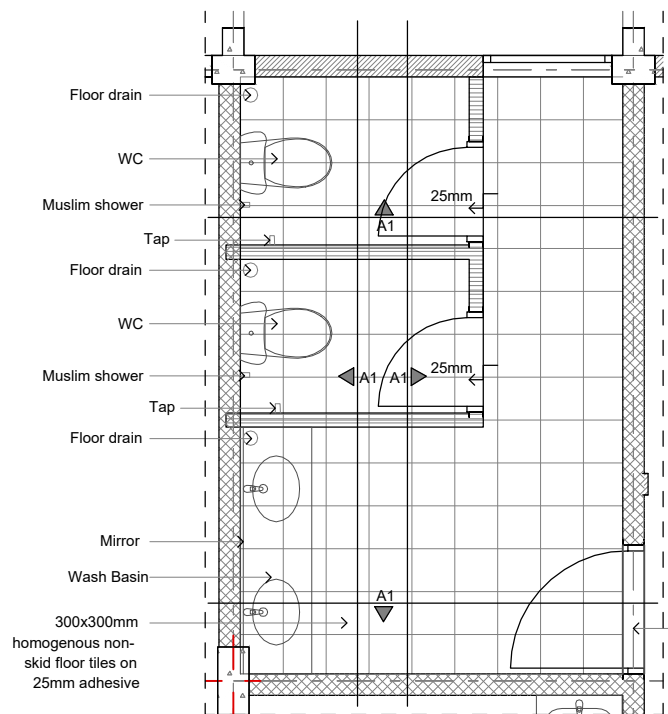
LEGEND

CODE	DESCRIPTION
	9mm THICK FIXED CEILING 'BORAL' OR EQUIVALENT PLASTERBOARD CEILING SYSTEM WITH TIMBER FRAMES, APPLIED WITH GROUND SMOOTH FINISH IN SELECTED PAINT
	6mm THICK CEMENT BOARD ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)

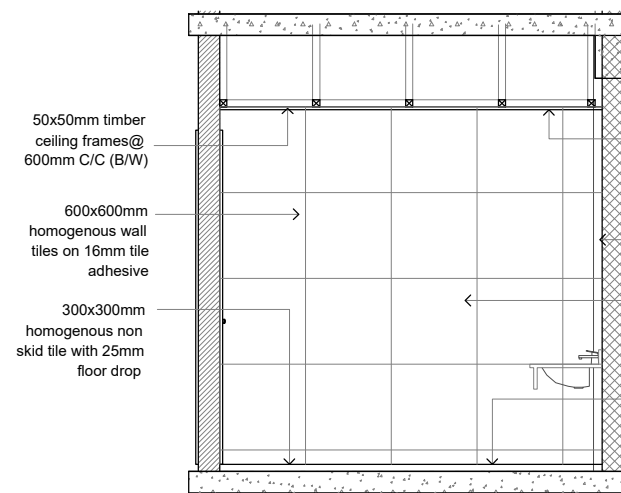
SECOND FLOOR - REFLECTIVE CEILING PLAN



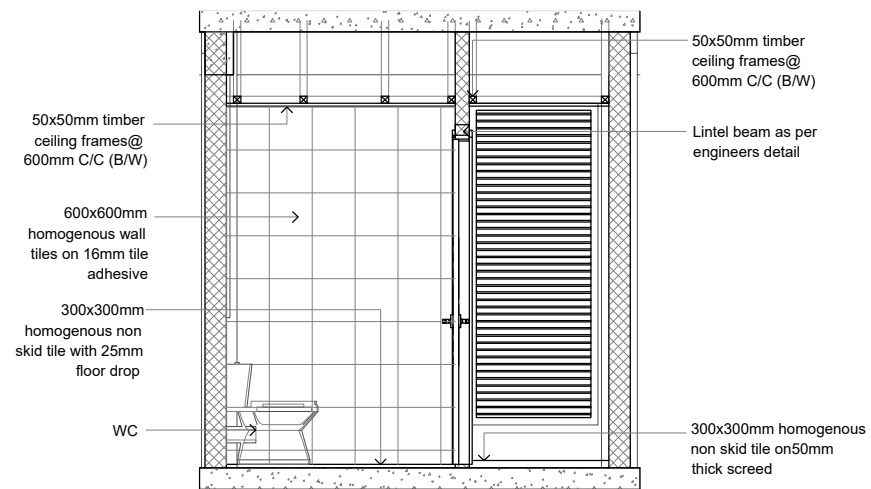
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 17/ 22		



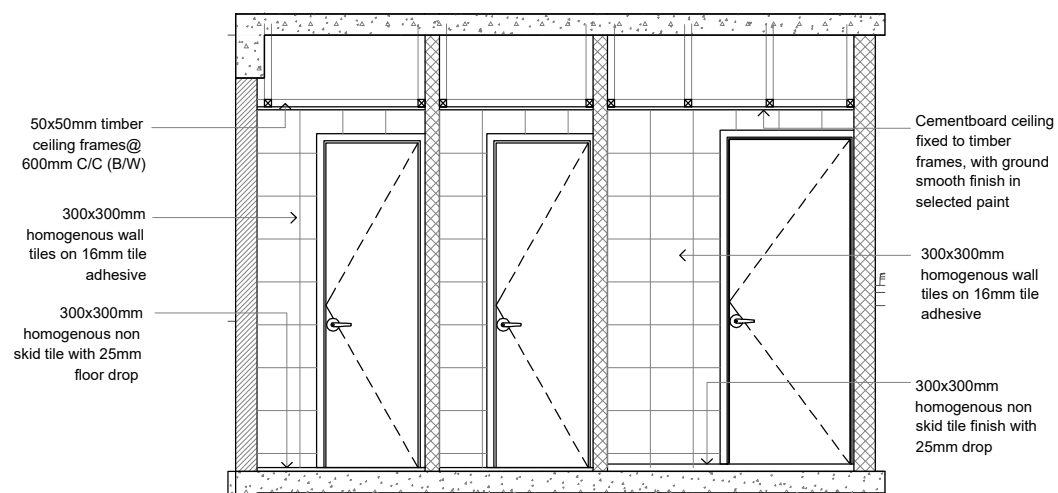
Toilet Plan (Male and Female)
1:50



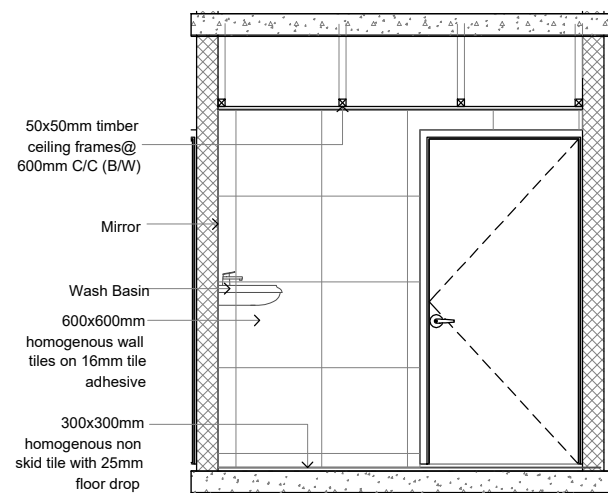
A3
1:50



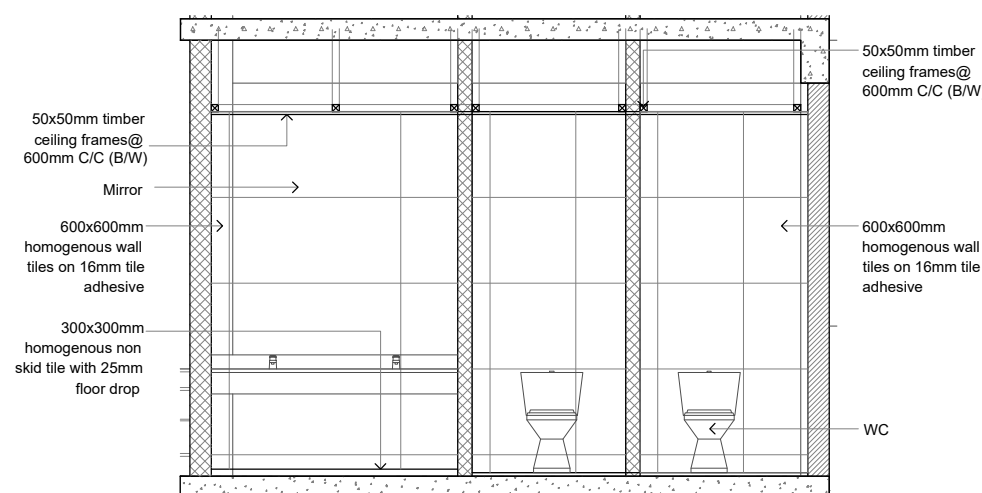
A1
1:50



A2
1:50



Elevation B 2
1:50



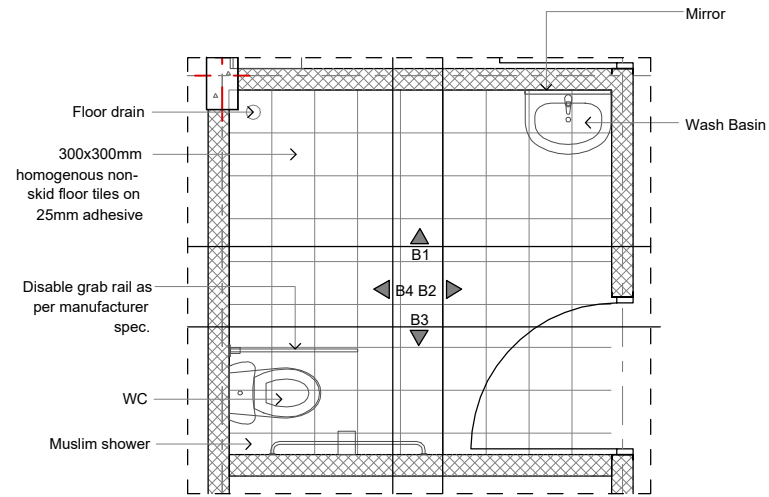
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TOILET DETAIL 1

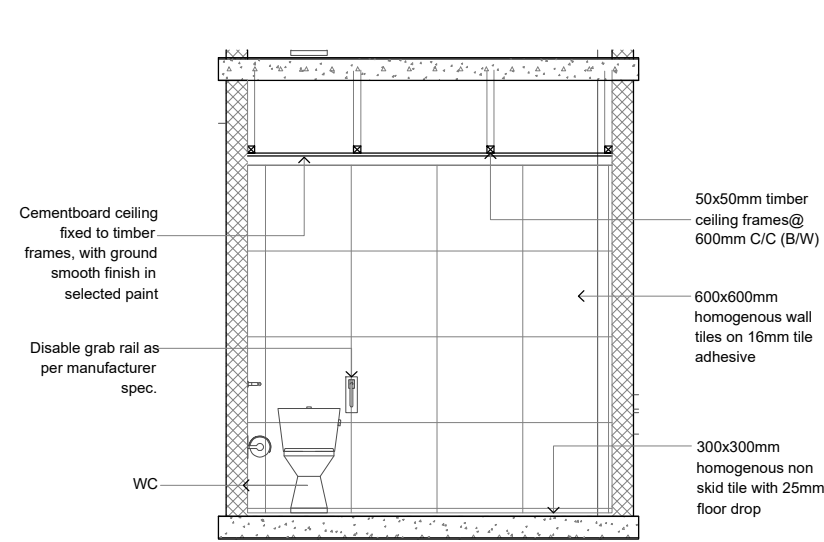
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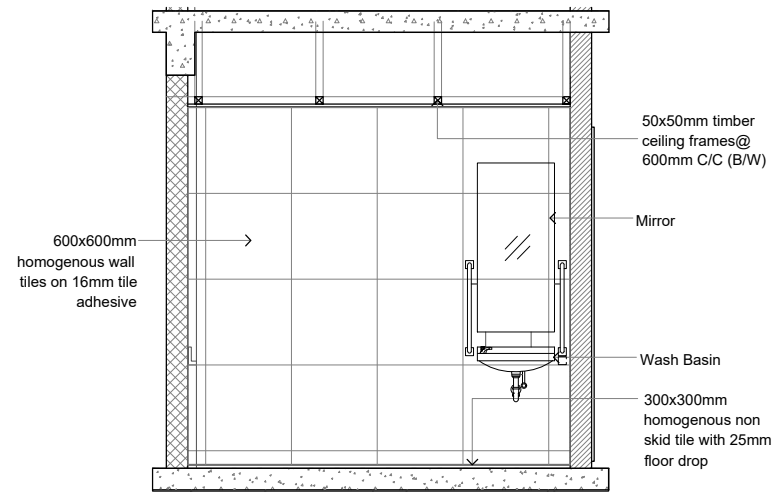
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT R.FAINY SCHOOL - 10 CLASSROOM, LIBRARY, AV ROOM (03 Storey Building)		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 18 / 22		



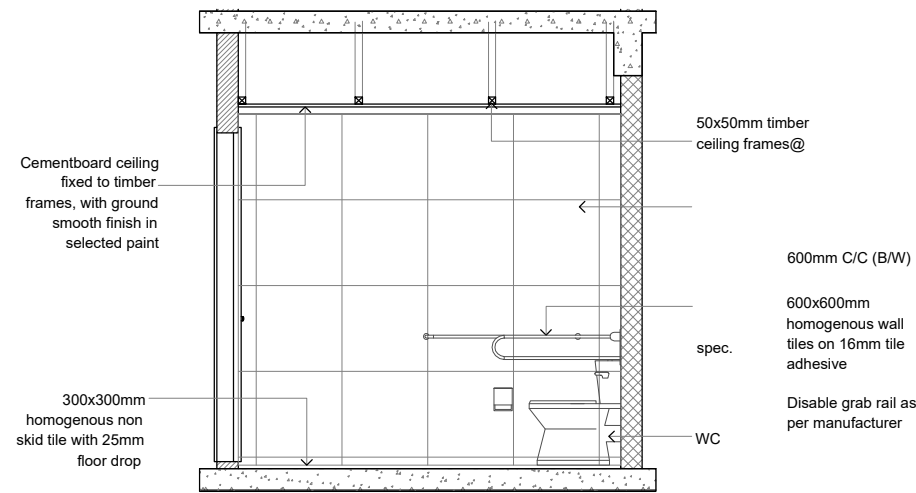
Disable Toilet Floor Plan
1:50



Elevation B 4
1:50



Elevation B 1
1:50

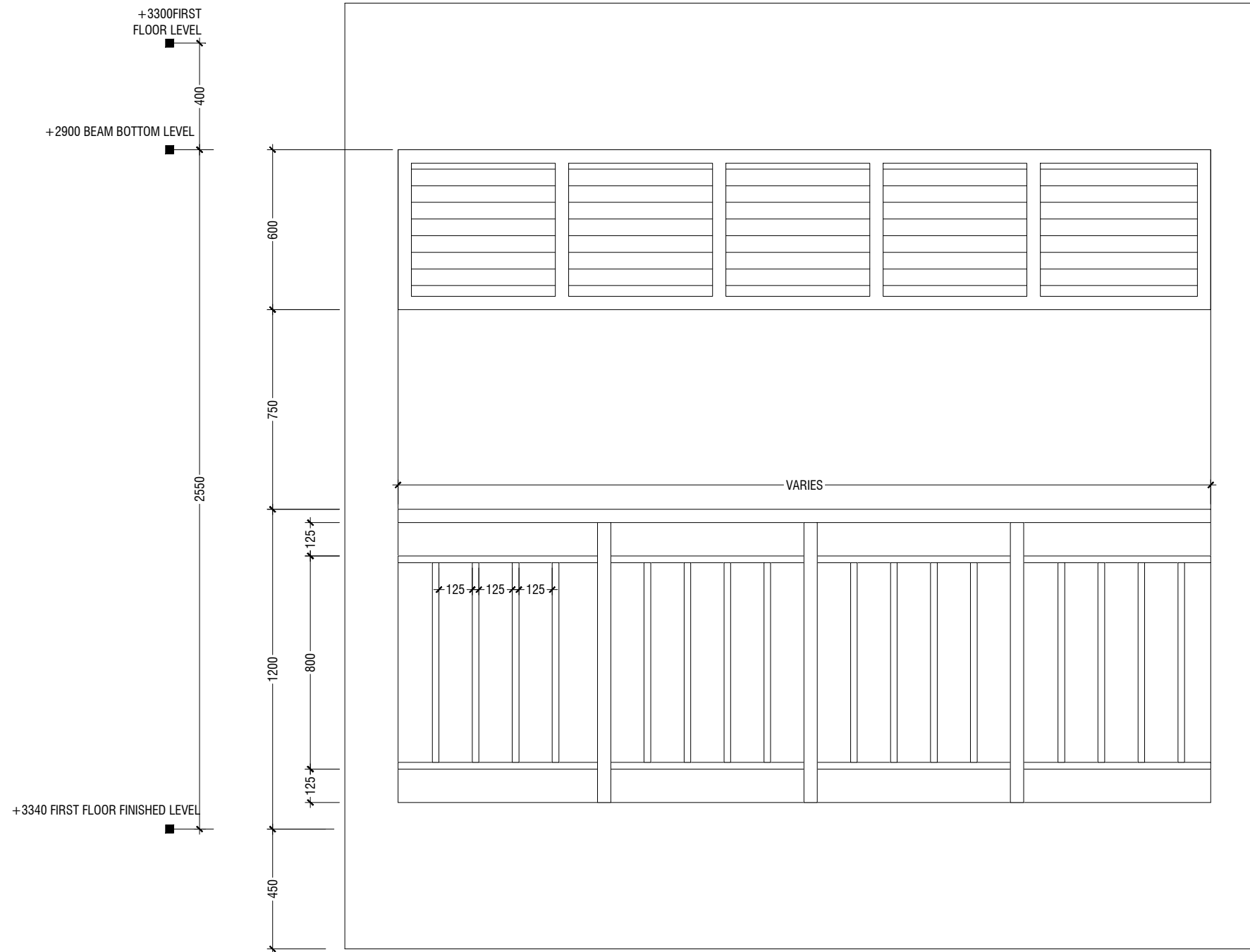


Elevation B 3
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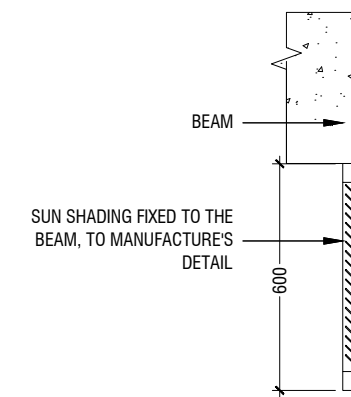
TOILET DETAIL 2

SCALE 1:50
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Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINY SCHOOL - 10 CLASSROOM, LIBRARY, AV ROOM (03 Storey Building)		
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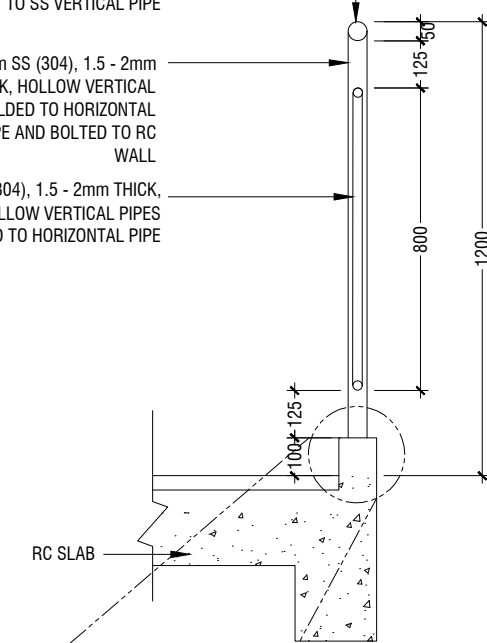
ELEVATION
SCALE 1:20



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

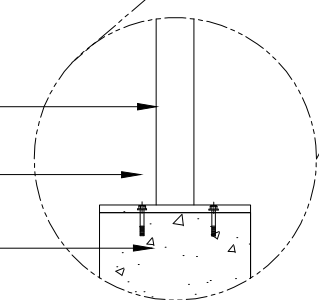


SECTION
SCALE 1:20

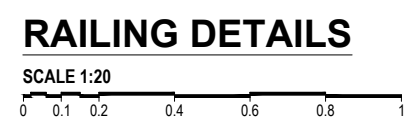
Ø50mm SS (304) HOLLOW PIPE

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

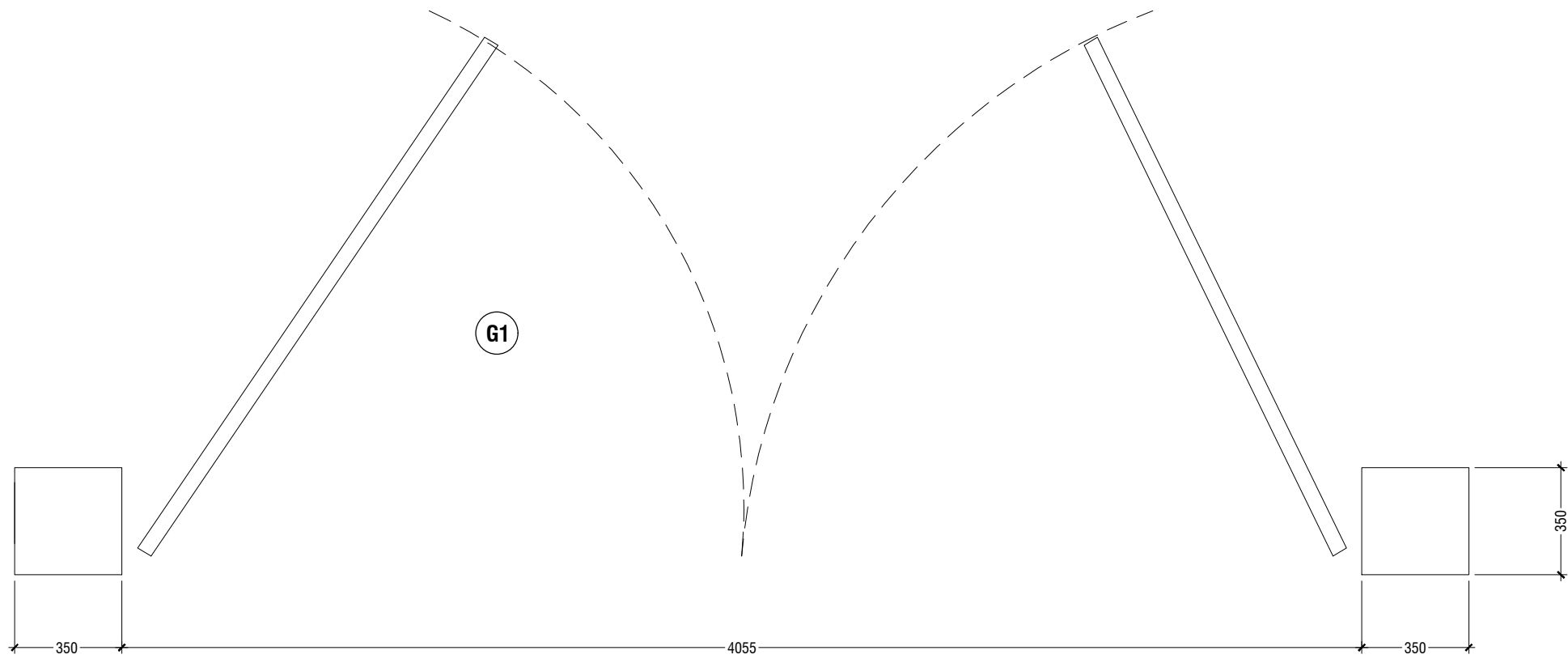
100mm THICK RC CONCRETE WALL



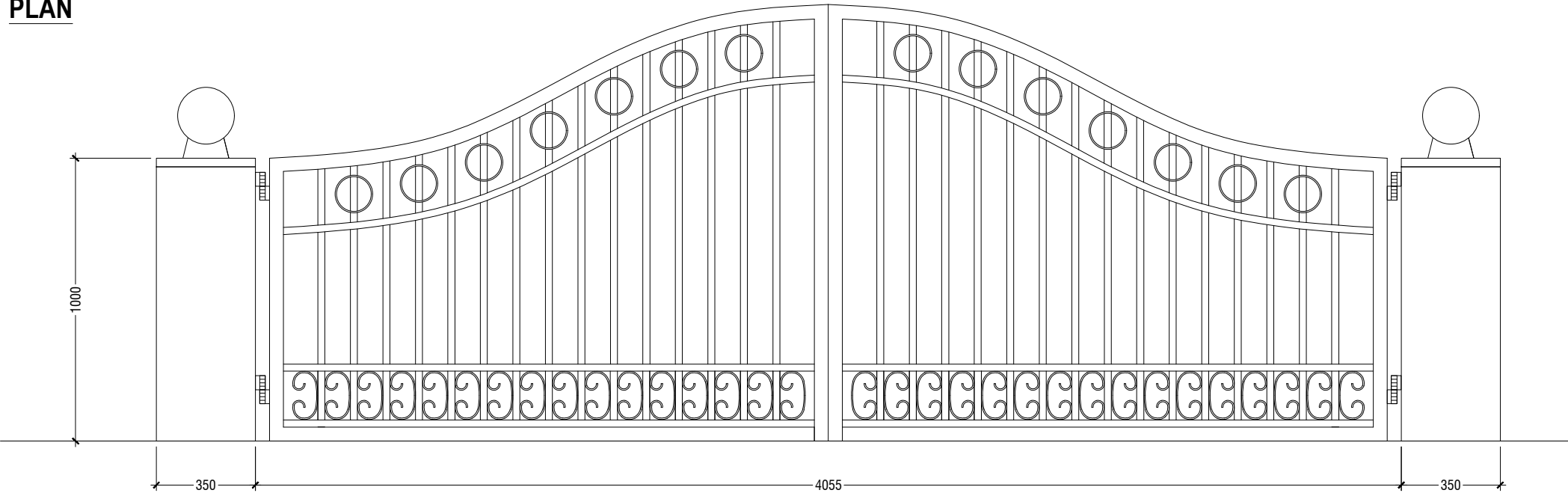
NOTE:-
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
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SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 20/ 22		



PLAN

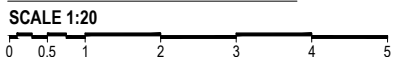


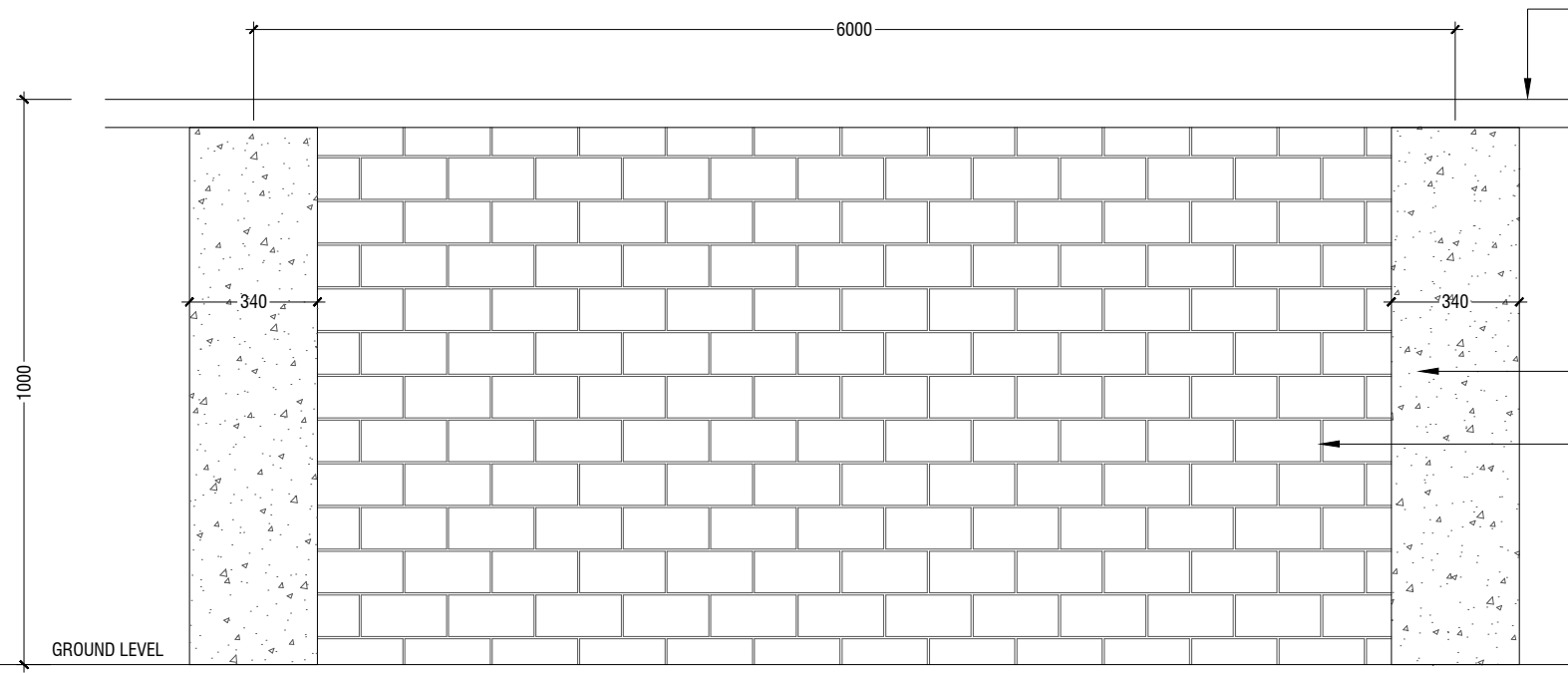
NOTE: LOGO TO BE PLACED AT THE CENTER OF THE GATE

ELEVATION

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
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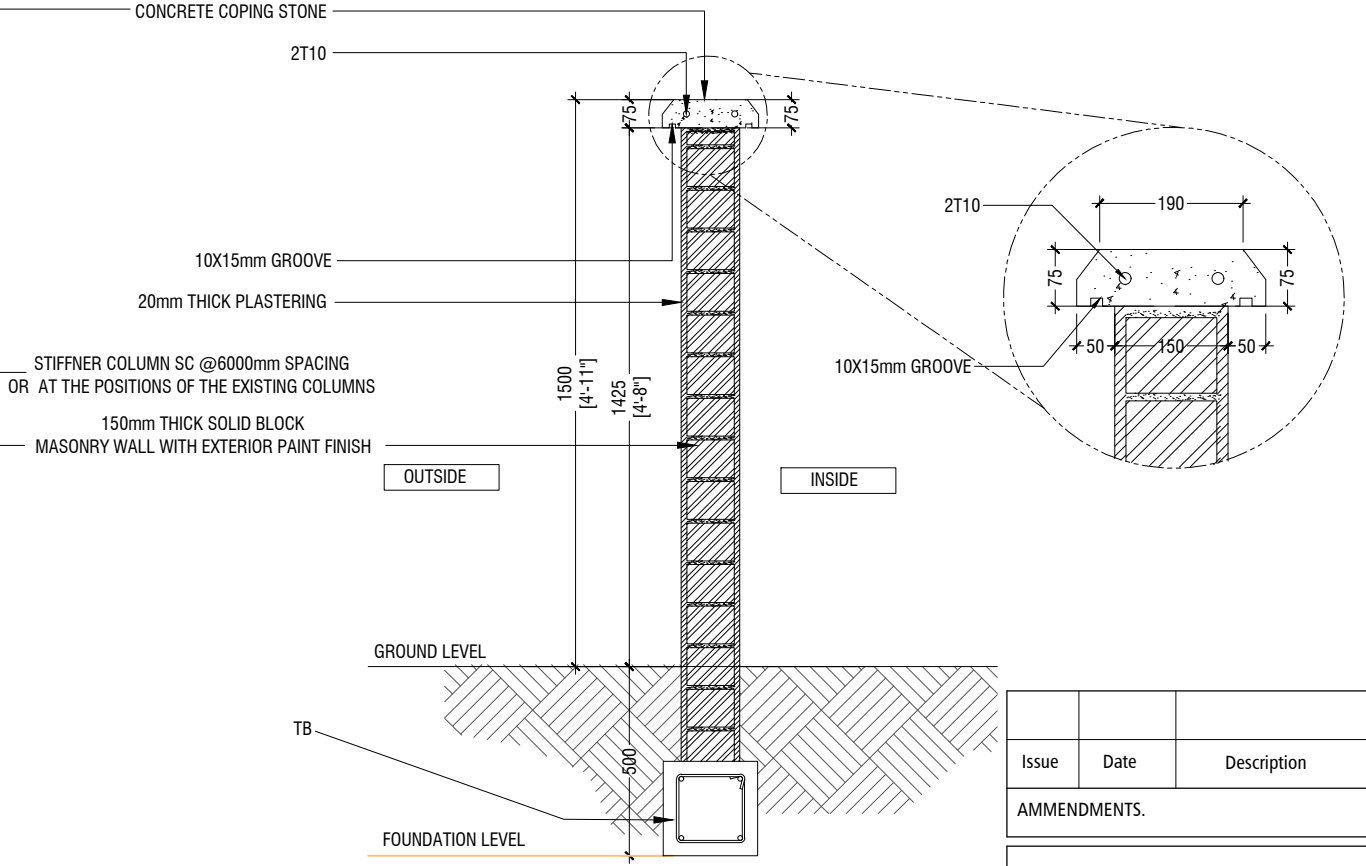
GATE DETAILS





BOUNDARY WALL ELEVATION

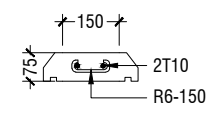
SCALE 1:20



BOUNDARY WALL SECTION DETAIL

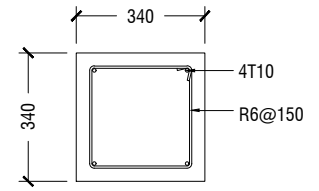
SCALE 1:20

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

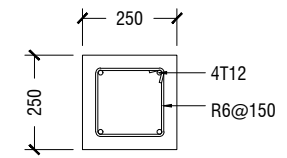


COLUMN SC @3000mm SPACING

CB - CAPPING BEAM



STIFFENER COLUMN

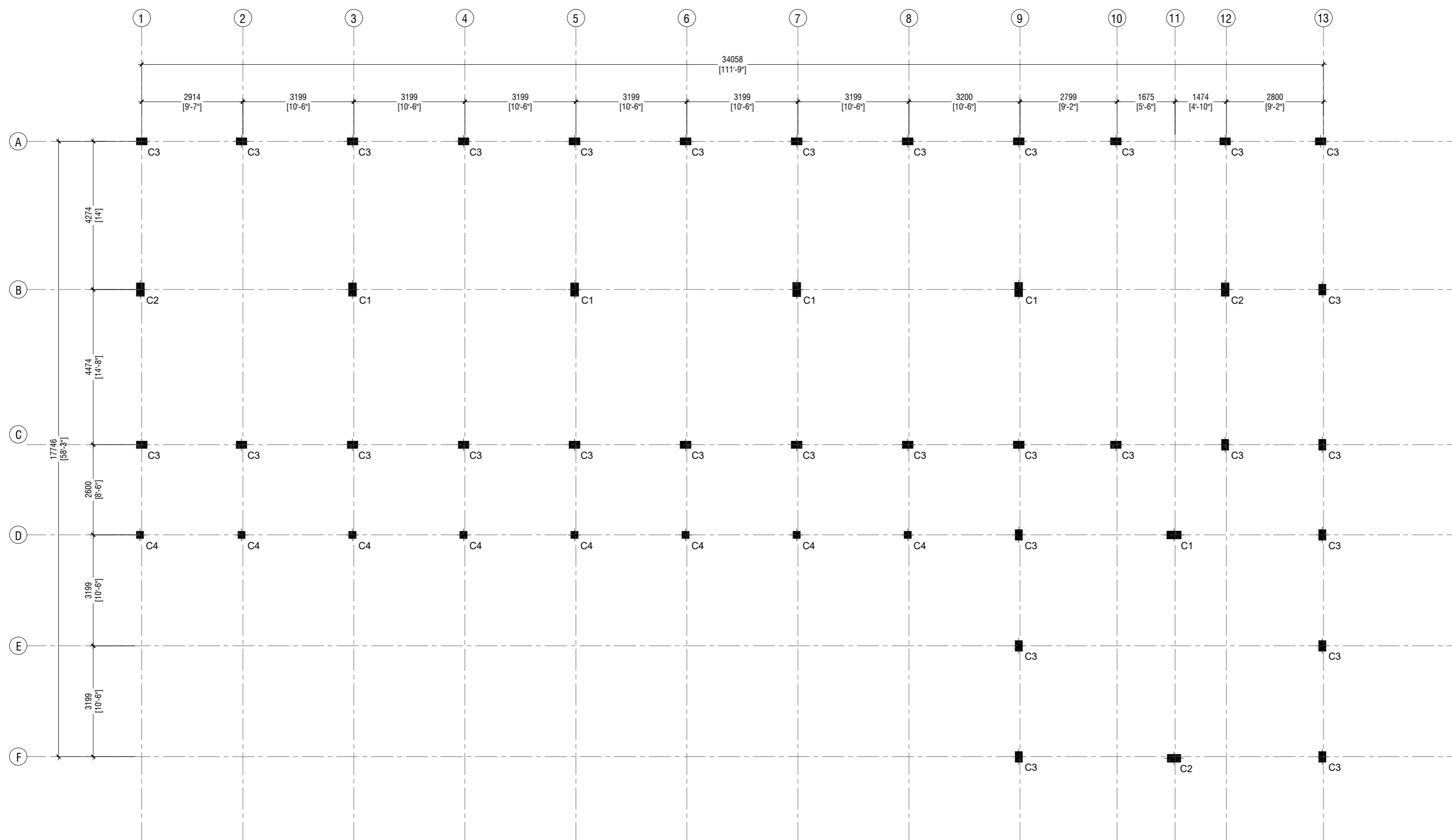


TB (BOUNDARY WALL)

BOUNDARY WALL DETAILS

SCALE 1:20

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : A 22/ 22		

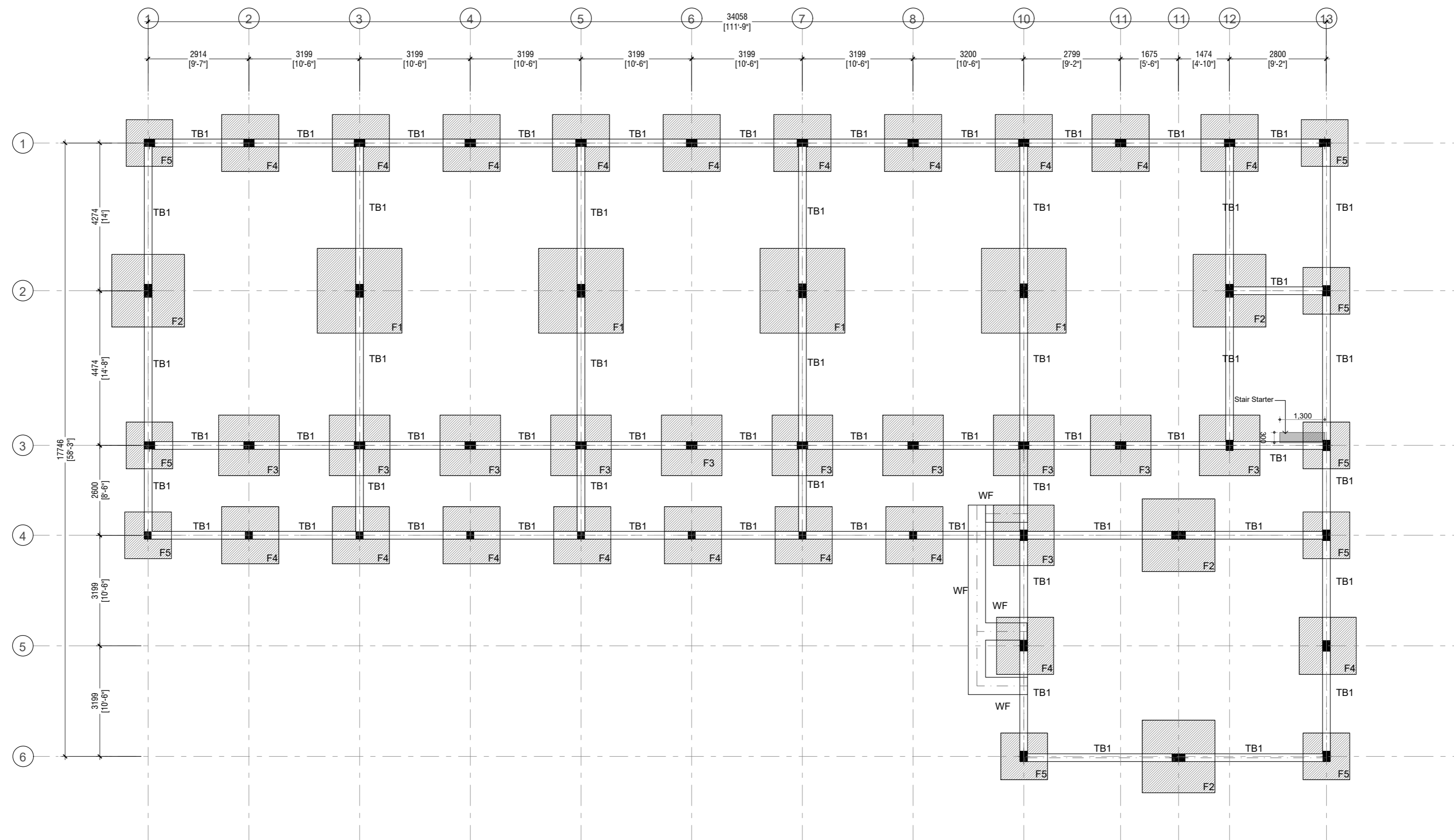


COLUMN LAYOUT

SCALE 1:100



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R. FAHNU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 01 / 18		



FOUNDATION PLAN
SCALE 1:100



Foundation Details:

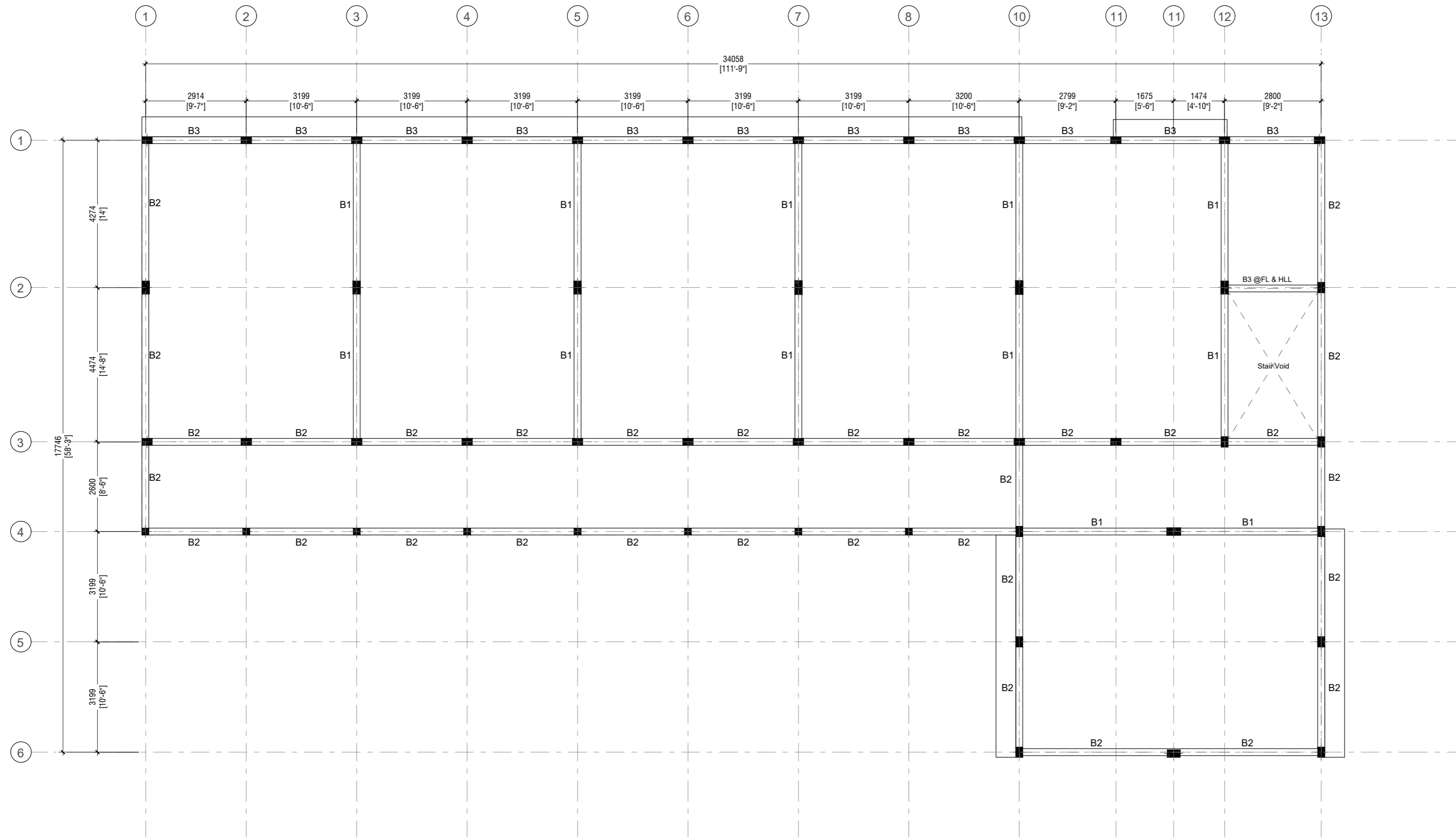
Dimensions	Reinforcement	Foundation depth
F1 2450X2450X450	T12@100C/C B/W (B)	1300mm
F2 2100X2100X400	T12@125C/C B/W (B)	1250mm
F3 1750X1750X350	T12@150C/C B/W (B)	1250mm
F4 1650X1650X350	T12@150C/C B/W (B)	1200mm
F5 1350X1350X350	T12@150C/C B/W (B)	1200mm

Ground Slab = 100mm thick RC slab on fill reinforced with T10@200C/C (B/W)

All Footings are to be laid on top of 50mm thick lean concrete
Apply waterproofing admixture and apply waterproofing to all substructure (below ground elements)

All Tie Beams are TB1

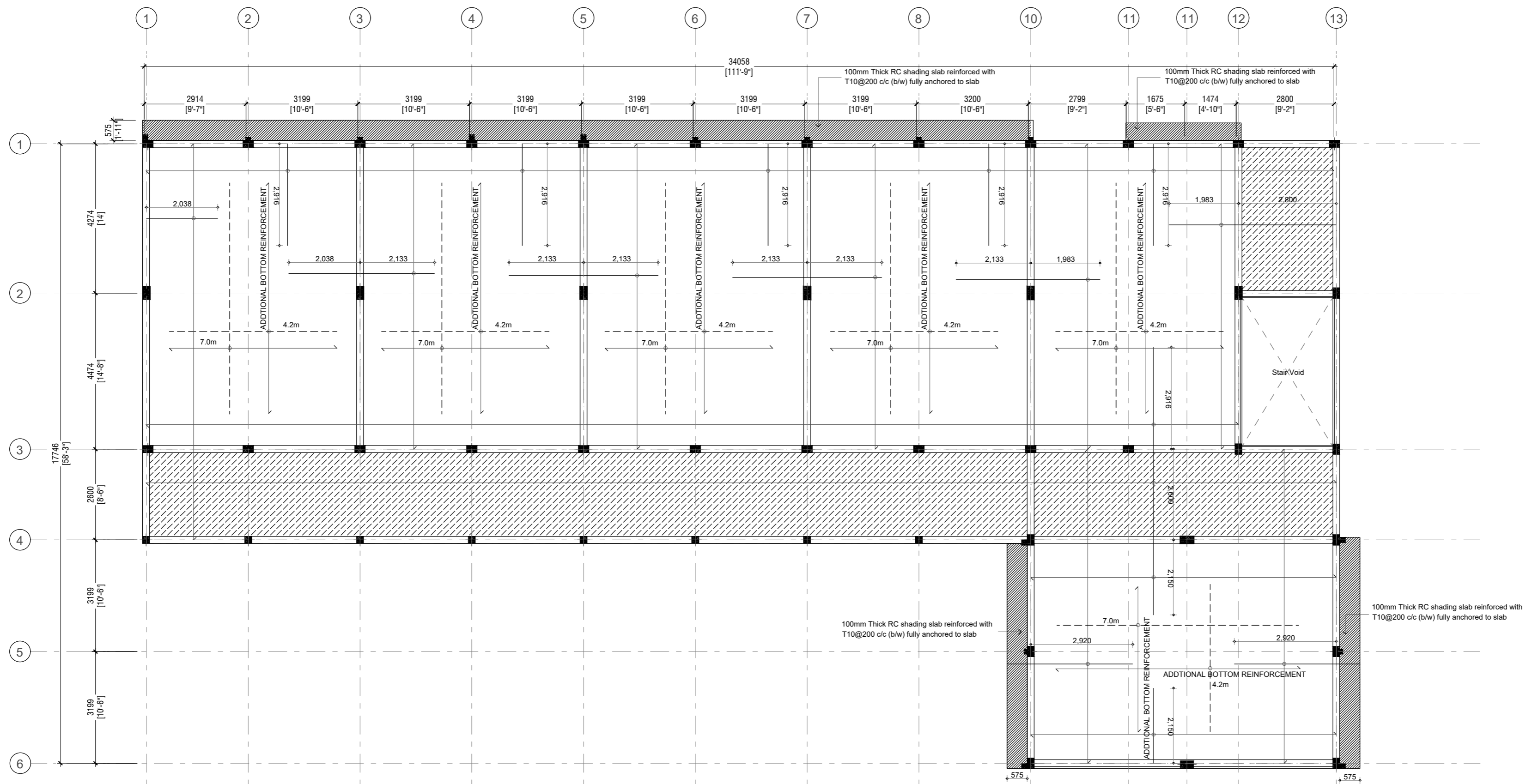
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 02 / 18		



1ST & 2ND FLOOR BEAM PLAN

SCALE 1:100
 0 0.5 1 2 3 4 5

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT : MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 03 / 18		



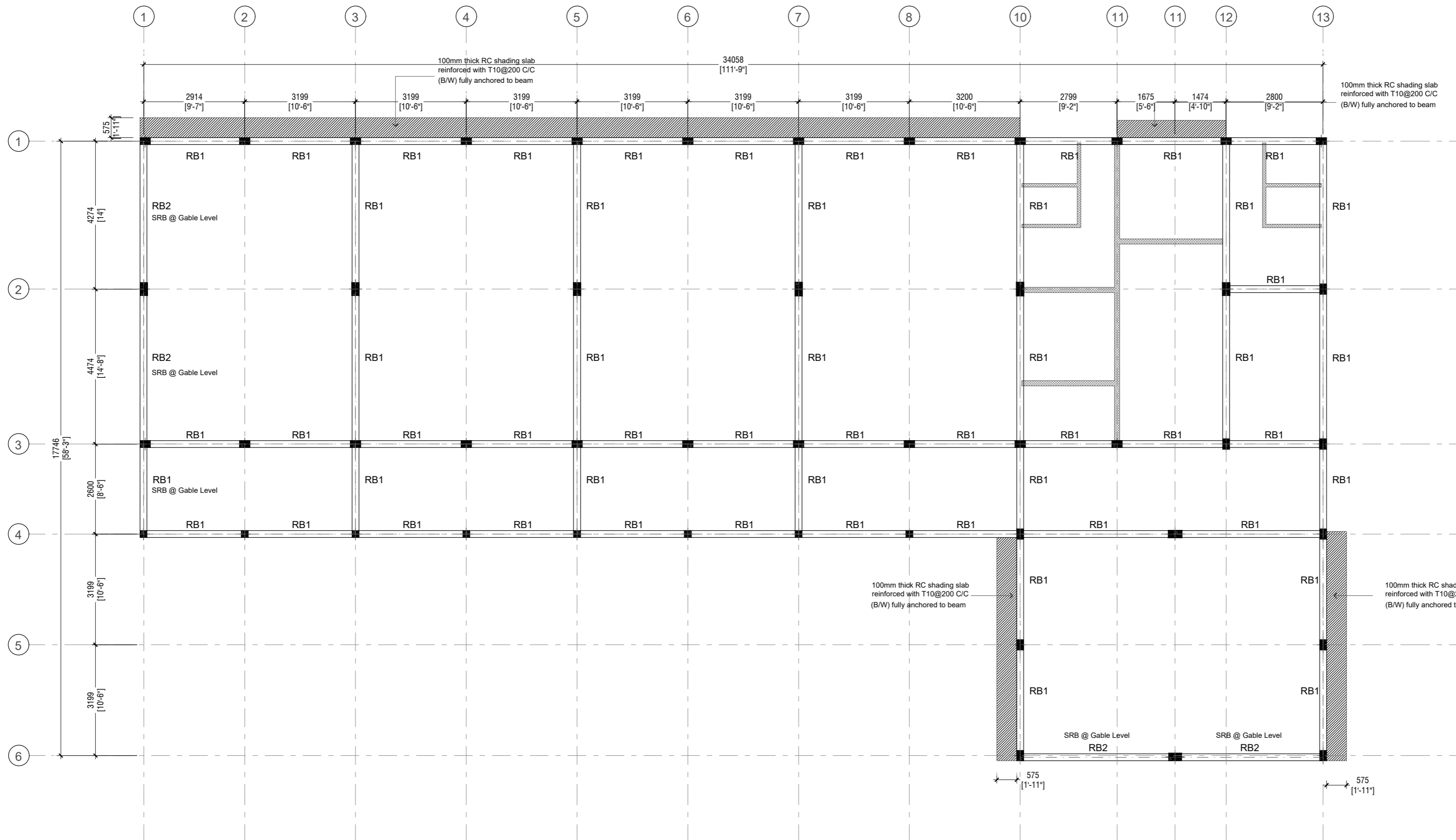
Notes:

- Slab thickness = 175mm
- ▨ Slab thickness = 155mm
- Bottom Reinforcement = T12@150 C/C B/W (not shown)
- - - Bottom Additional Reinforcement = T12@150 C/C B/W (as shown)
- Top Reinforcement = T12@150 C/C (as shown, unless stated)
- Top Distribution Steel= T12@150 C/C (unless stated)
- Reinforcement discontinuous at voids

1ST & 2ND FLOOR SLAB REINFORCEMENT PLAN

SCALE 1:100
 0 0.5 1 2 3 4 5

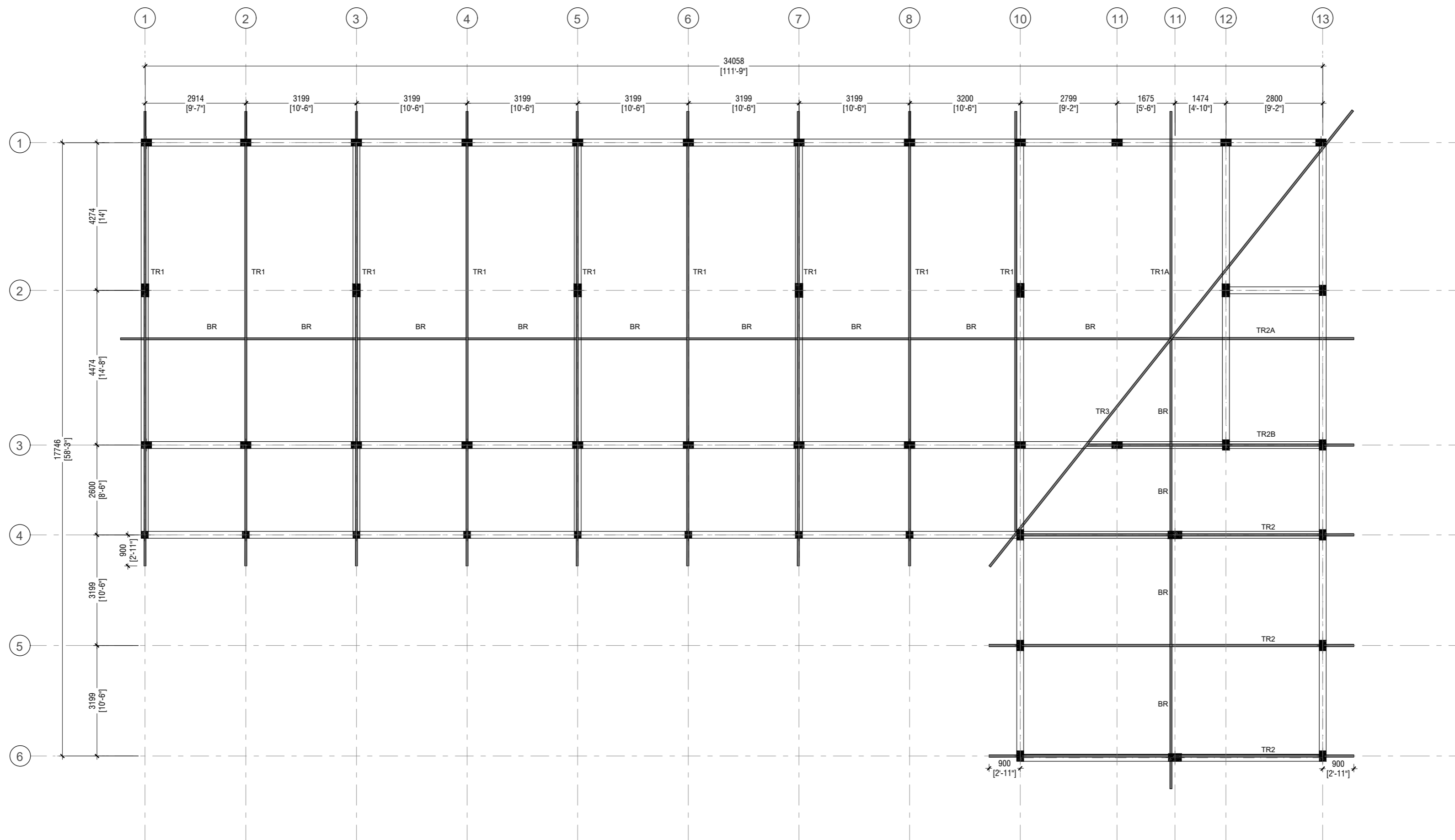
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 04 / 18		



ROOF BEAM PLAN
SCALE 1:100



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 05 / 18		

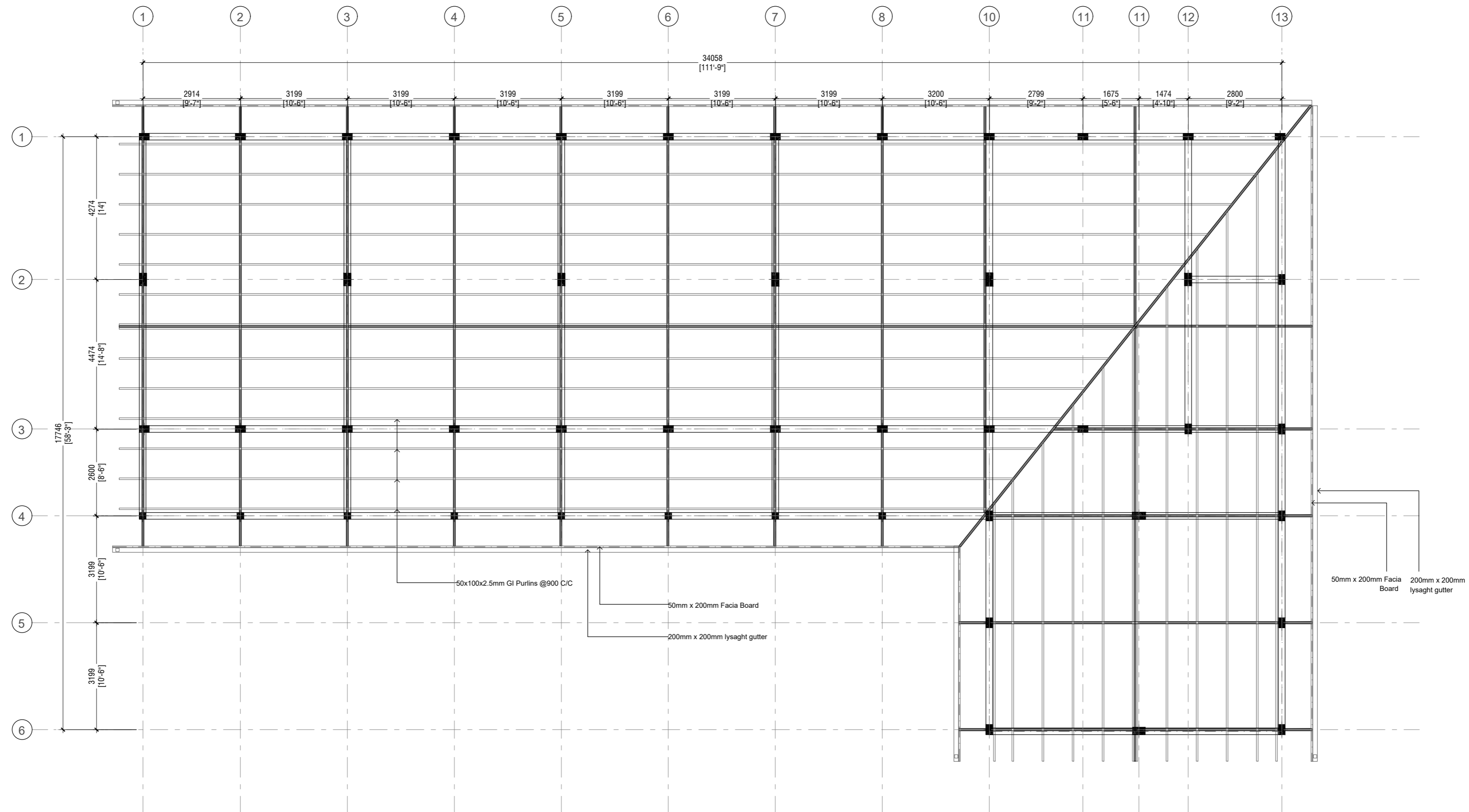


ROOF TRUSS LAYOUT

SCALE 1:100



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 06 / 18		



ROOF FRAMING LAYOUT
SCALE 1:100



Issue	Date	Description
AMMENDMENTS.		

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

PROJECT
R.FAINU SCHOOL 10 CLASSROOM,
LIBRARY, AV ROOM
03 Storey Building

PROJECT REFERENCE

CLIENT MINISTRY OF EDUCATION

ARCHITECT :

ENGINEER :

DRAWN :

CHECKED :

SCALE : AS GIVEN

DATE : 04.10.2021

DWG NO : E 07 / 18

Foundation Details:

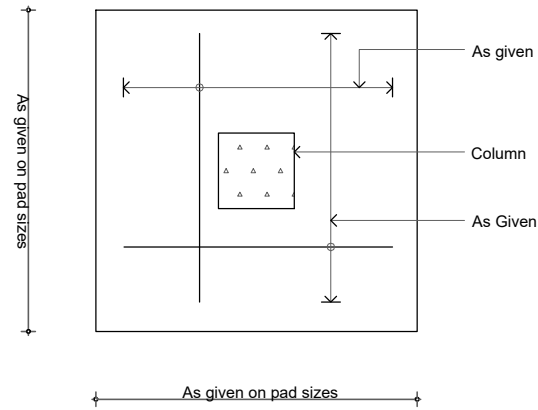
	Dimensions	Reinforcement	Foundation depth
F1	2450X2450X450	T12@100C/B/W (B)	1300mm
F2	2100X2100X400	T12@125C/B/W (B)	1250mm
F3	1750X1750X350	T12@150C/B/W (B)	1250mm
F4	1650X1650X350	T12@150C/B/W (B)	1200mm
F5	1350X1350X350	T12@150C/B/W (B)	1200mm

Ground Slab = 100mm thick RC slab on fill reinforced with T10@200C/C (B/W)

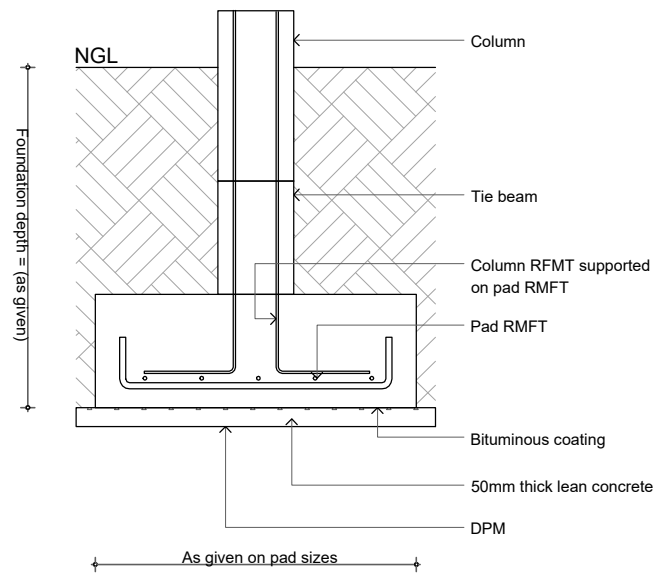
All Footings are to be laid on top of 50mm thick lean concrete
Apply waterproofing admixture and apply waterproofing to all substructure (below ground elements)

All Tie Beams are TB1

Foundation Notes

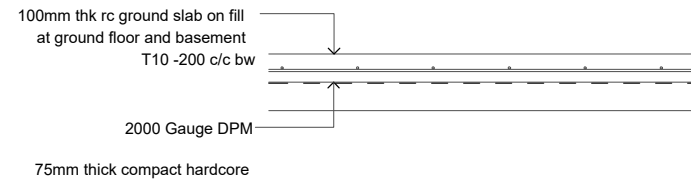
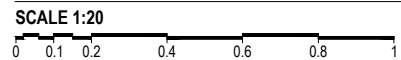


Plan View



Sectional View

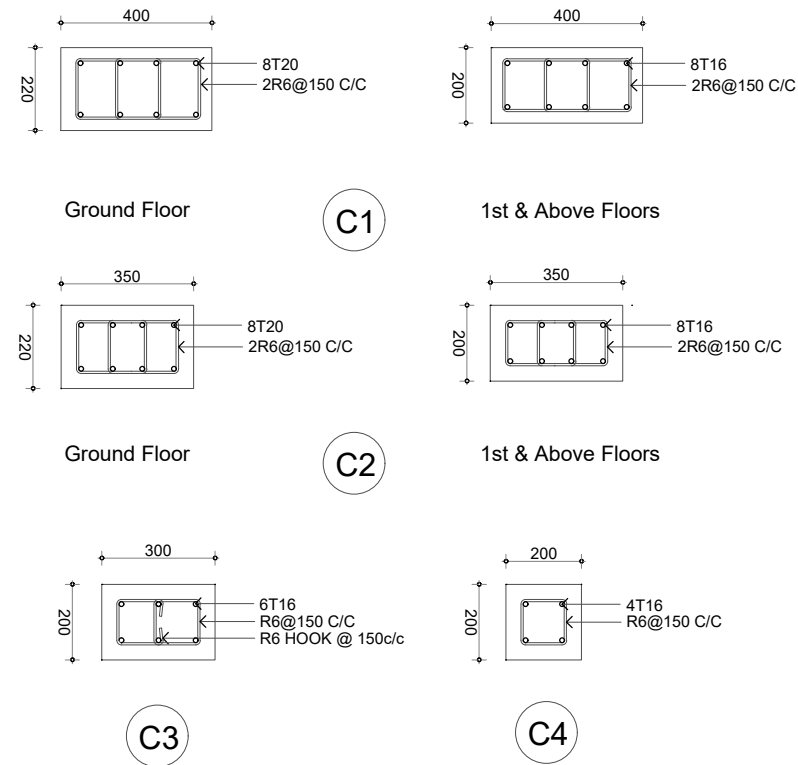
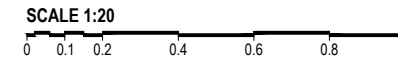
TYPICAL FOOTING DETAIL



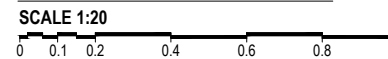
NOTE:
All cover blocks shall be casted using grade C 25 / 30 concrete with 5-10 mm aggregates

For slab, rebar spacer chairs spacing shall be minimum 1m spacing or 1 no. per 1 sqm

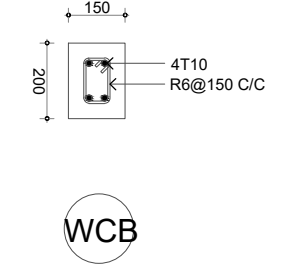
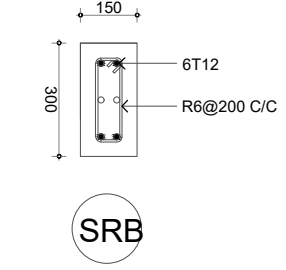
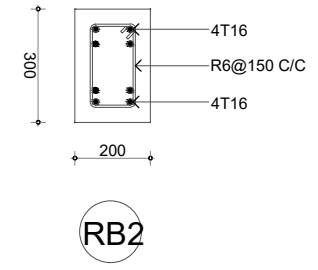
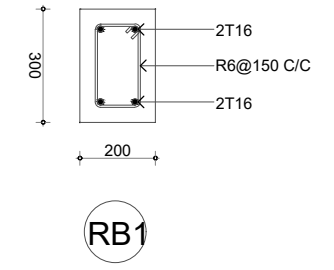
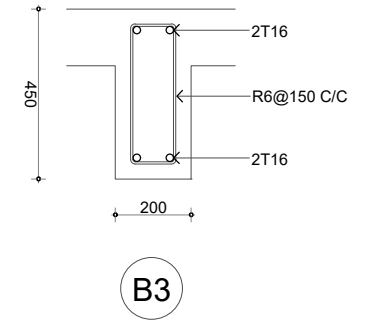
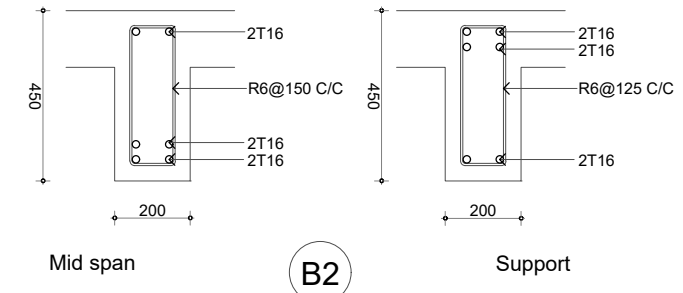
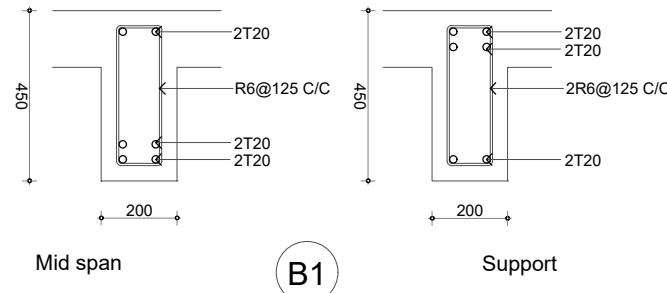
GROUND SLAB DETAIL



COLUMN DETAIL

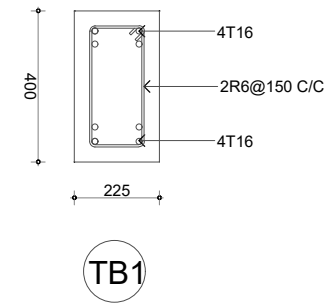


Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 08/ 18		

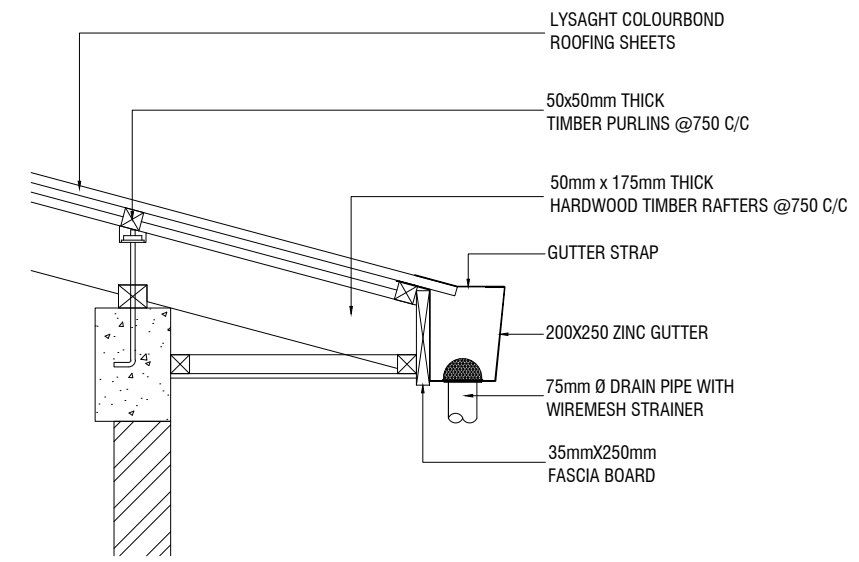


SRB (Sloping roof beam cast on top of wall at gable level)

(Cast on top of wall)

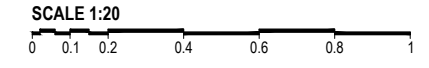


Tie Beam Details

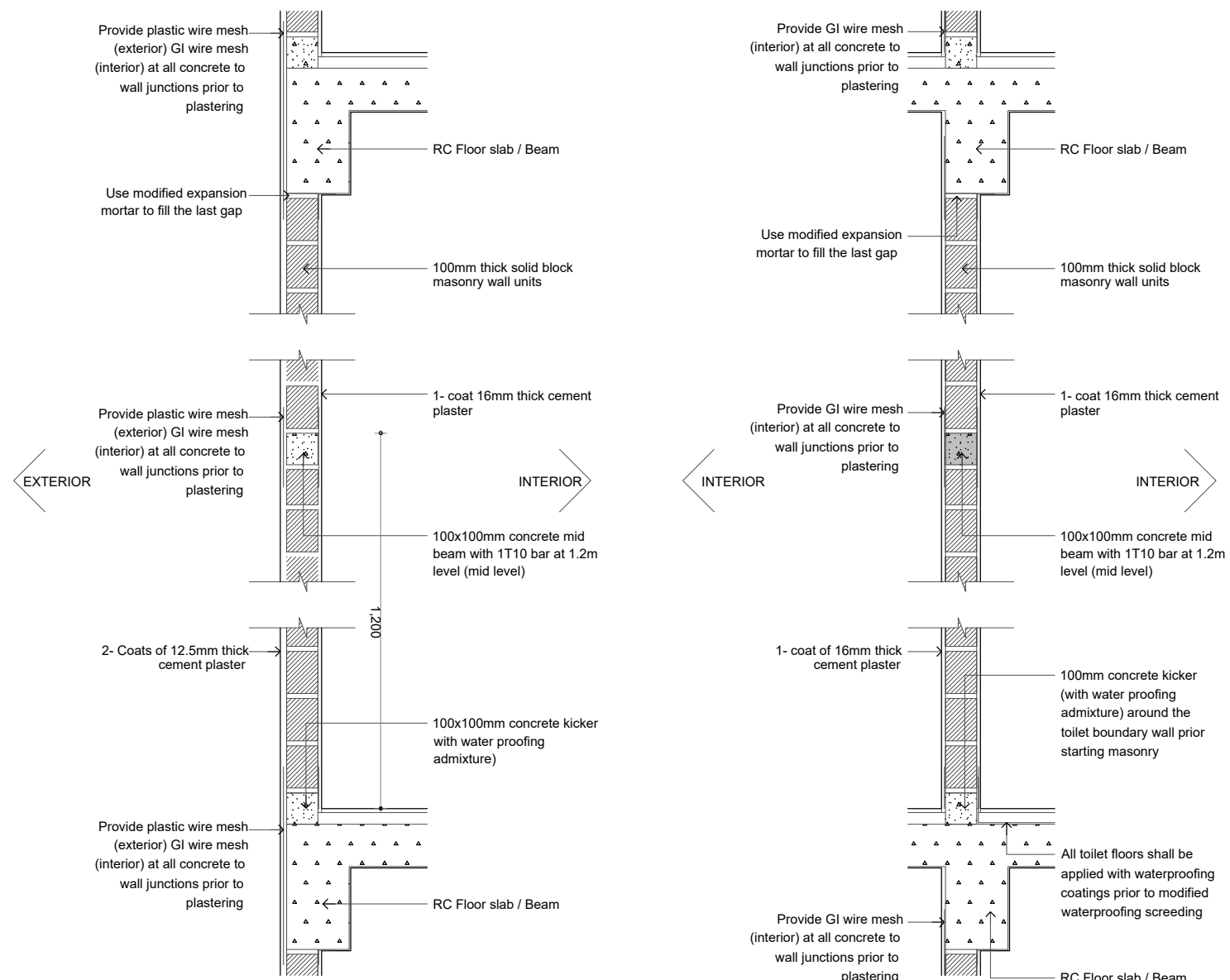


TYPICAL EAVE DETAILS

BEAM DETAIL



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 09/ 18		



Note:

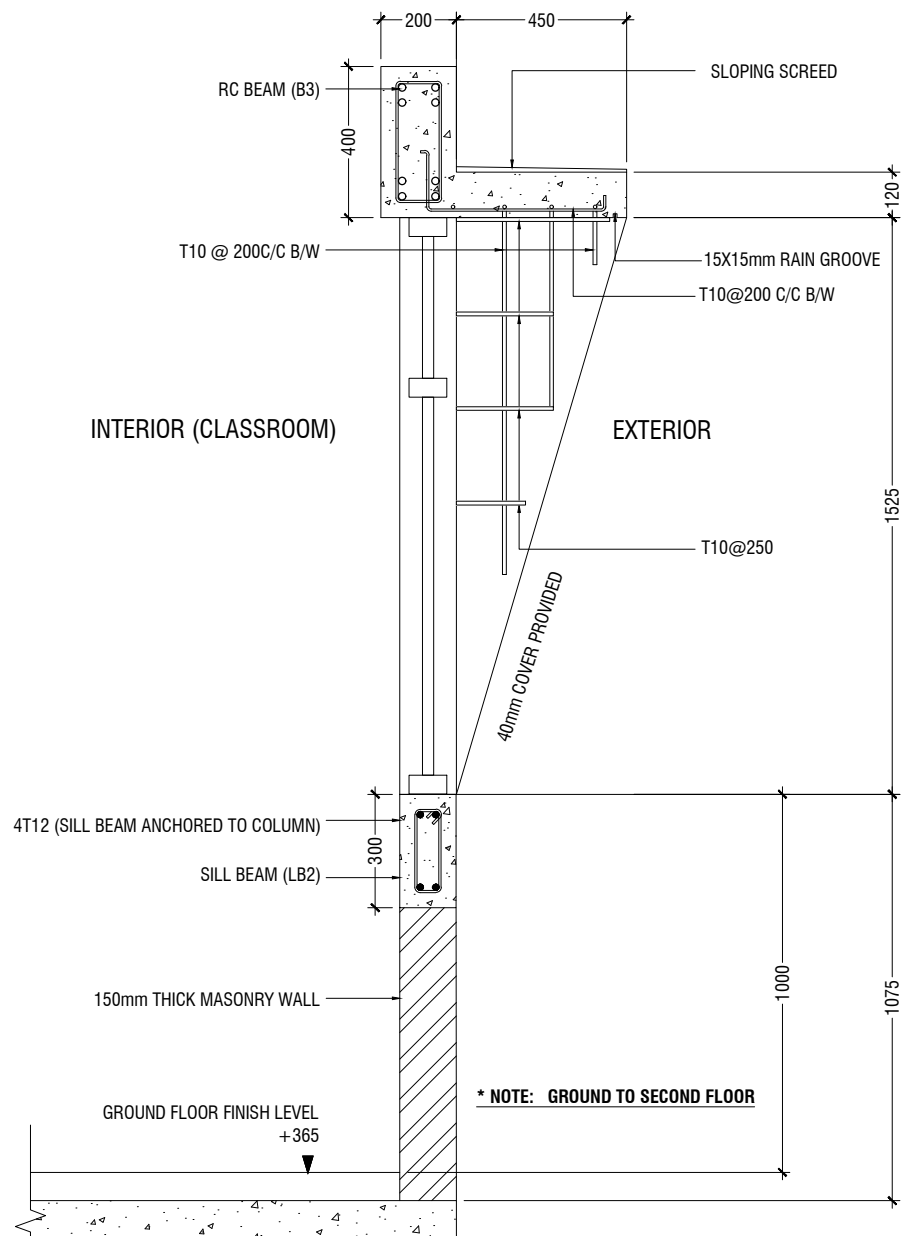
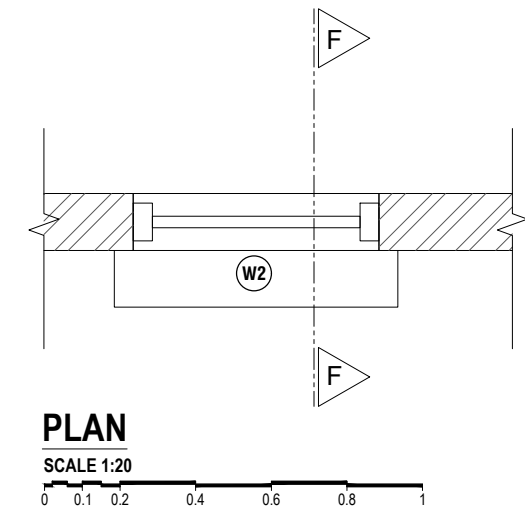
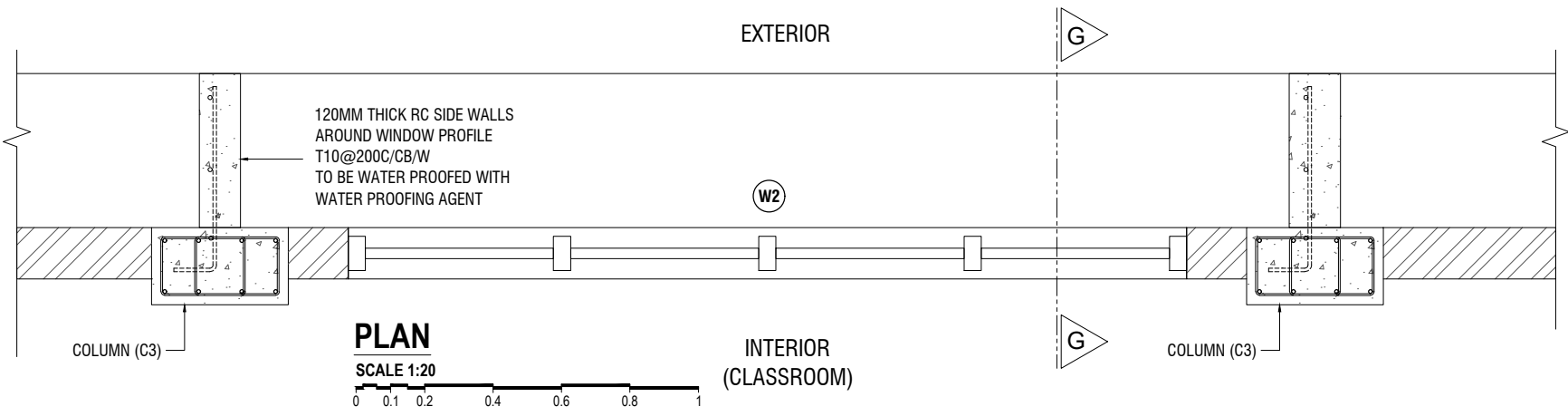
- * Concrete surfaces shall be thoroughly cleaned with water & applied with mastercast 141 or equivalent bonding mortar prior to plastering.
- * Plastering mortar mix shall be 1:4 (cement: sand) ratio.
- * Plaster mix shall be modified using fibre wool & mastercast 141 or equivalent plasticisers as per manufacturer's specification.
- * Height of placing blocks shall be maximum 1.2m per day.
- * After initial coat of plastering, water curing shall be provided for minimum 3 days & after final coat water curing shall be provided for 7 days.

TYPICAL WALL CONSTRUCTION DETAIL

SCALE 1:20

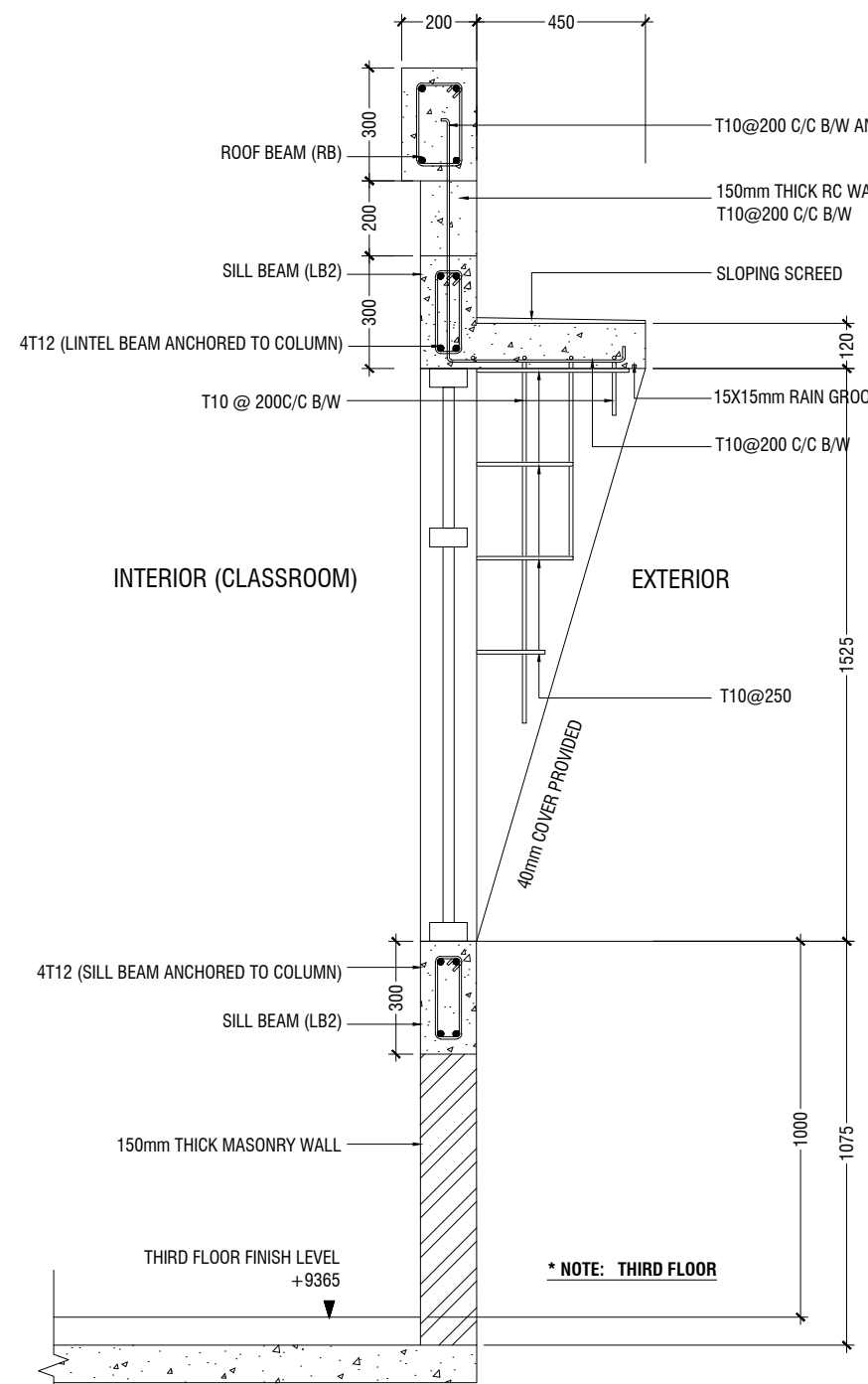


Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 10/ 18		



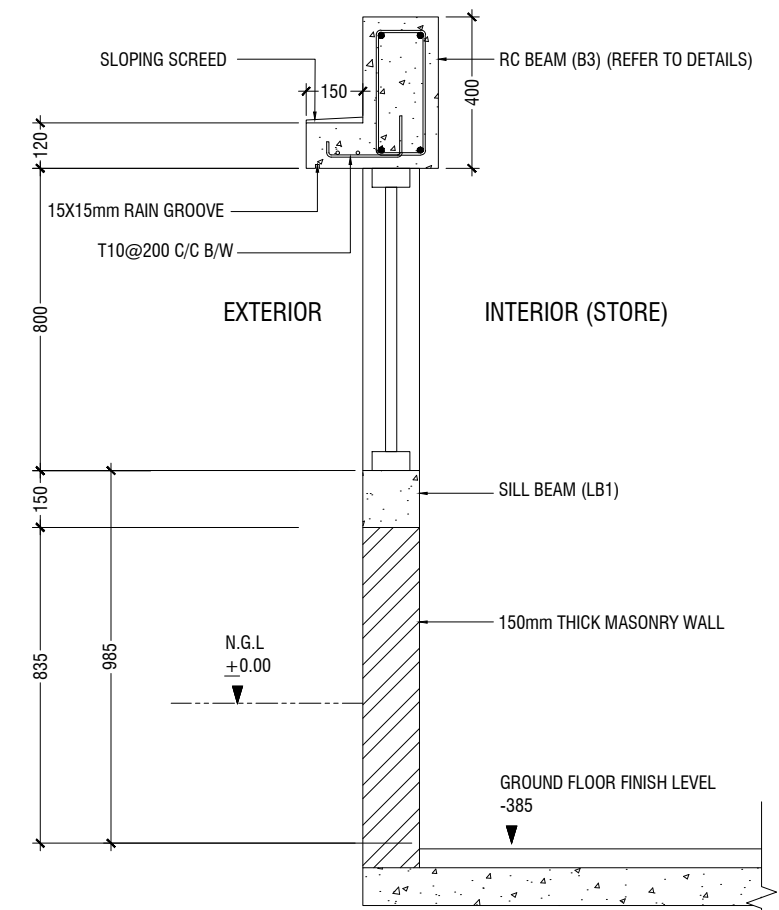
SECTION G-G
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



SECTION G-G
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



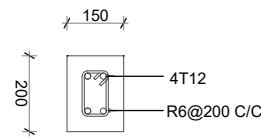
DETAIL - 6
RC WALL DETAILS
SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1

SECTION F-F
SCALE 1:20

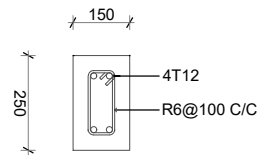
0 0.1 0.2 0.4 0.6 0.8 1

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 11/ 18		



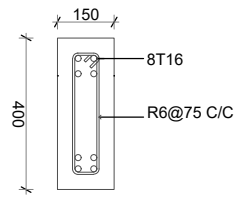
LT1

LINTELS OVER ALL DOORS, WINDOWS
(THAT DOES NOT RISE TO BEAM LEVEL)
LT1 FOR WINDOWS < 1.5M



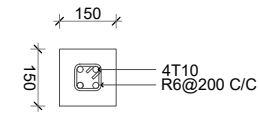
LT2

LINTELS OVER ALL DOORS, WINDOWS
(THAT DOES NOT RISE TO BEAM LEVEL)
LT2 FOR WINDOWS > 1.5M & < 3.0M



LT3

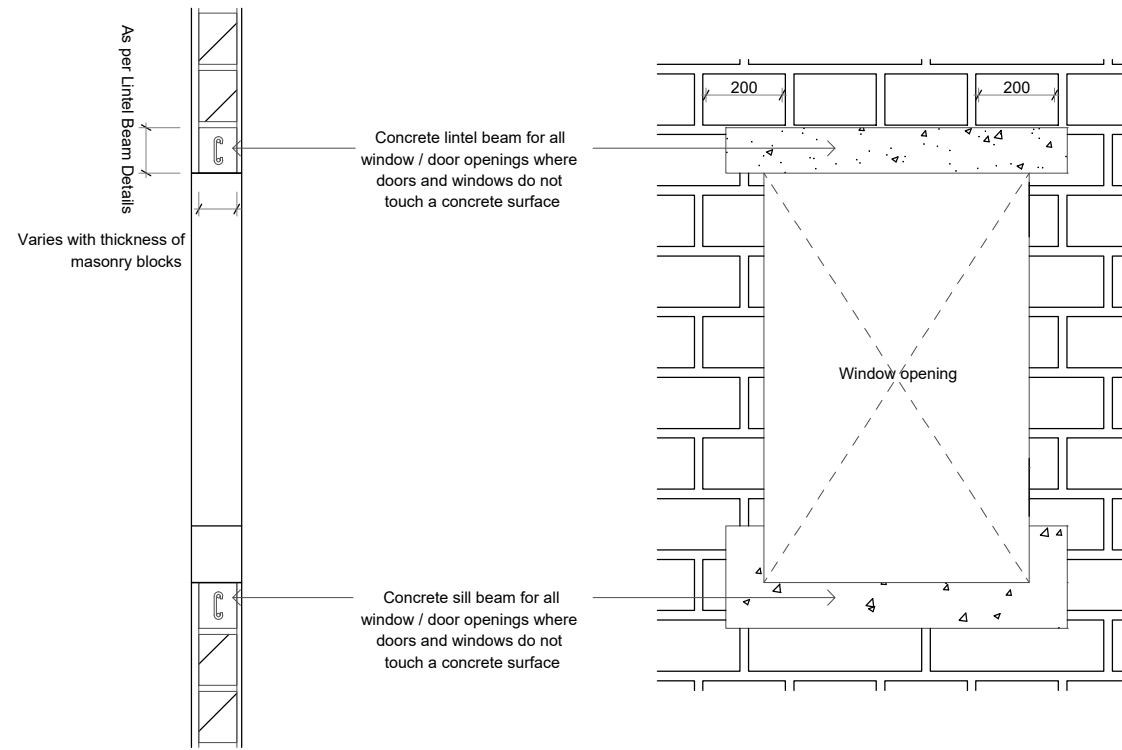
LINTELS OVER ALL DOORS, WINDOWS
(THAT DOES NOT RISE TO BEAM LEVEL)
LT3 FOR WINDOWS > 3.0M & < 6.0M



LB1

Sill Beam Detail

Lintel Beam Detail



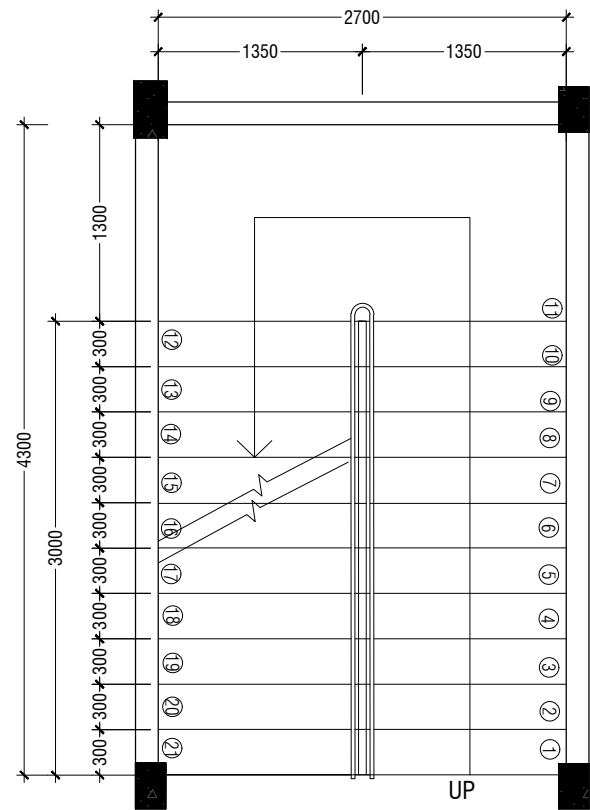
Typical Window Construction Detail

WINDOW CONSTRUCTION DETAIL

SCALE 1:20

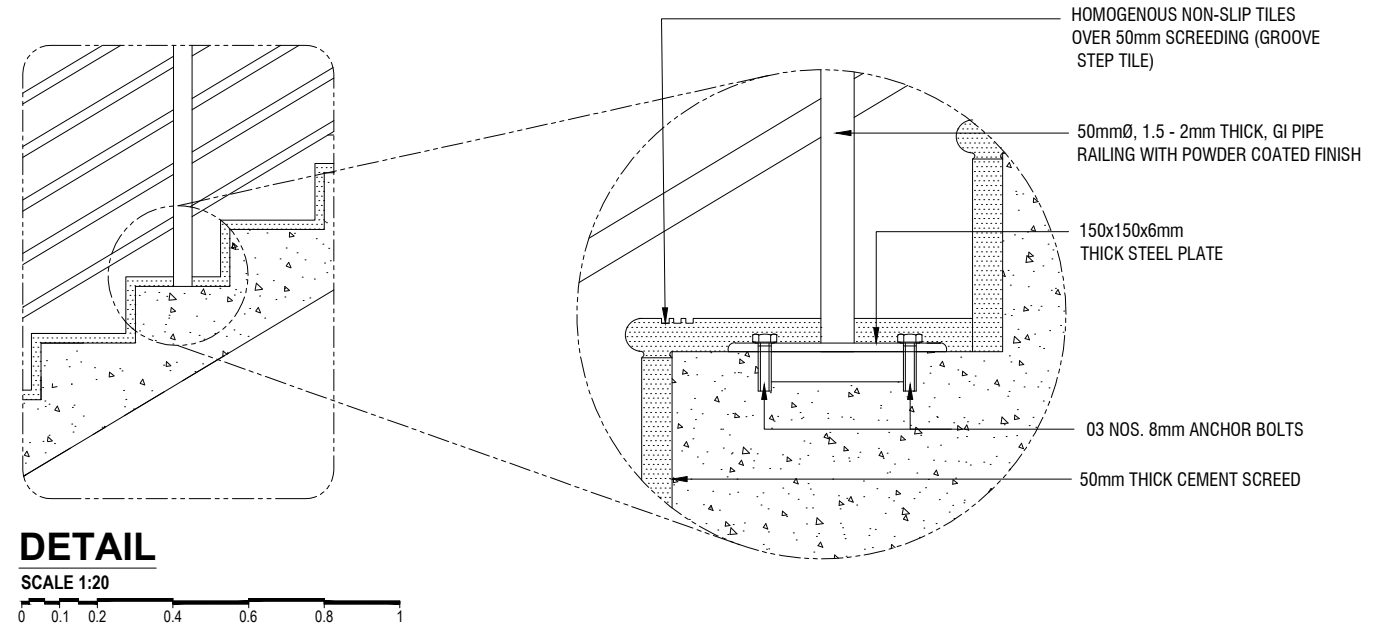


Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 12/ 18		



TYPICAL STAIRCASE PLAN

SCALE 1:50
 0 0.25 0.5 1 1.5 2 2.5



DETAIL

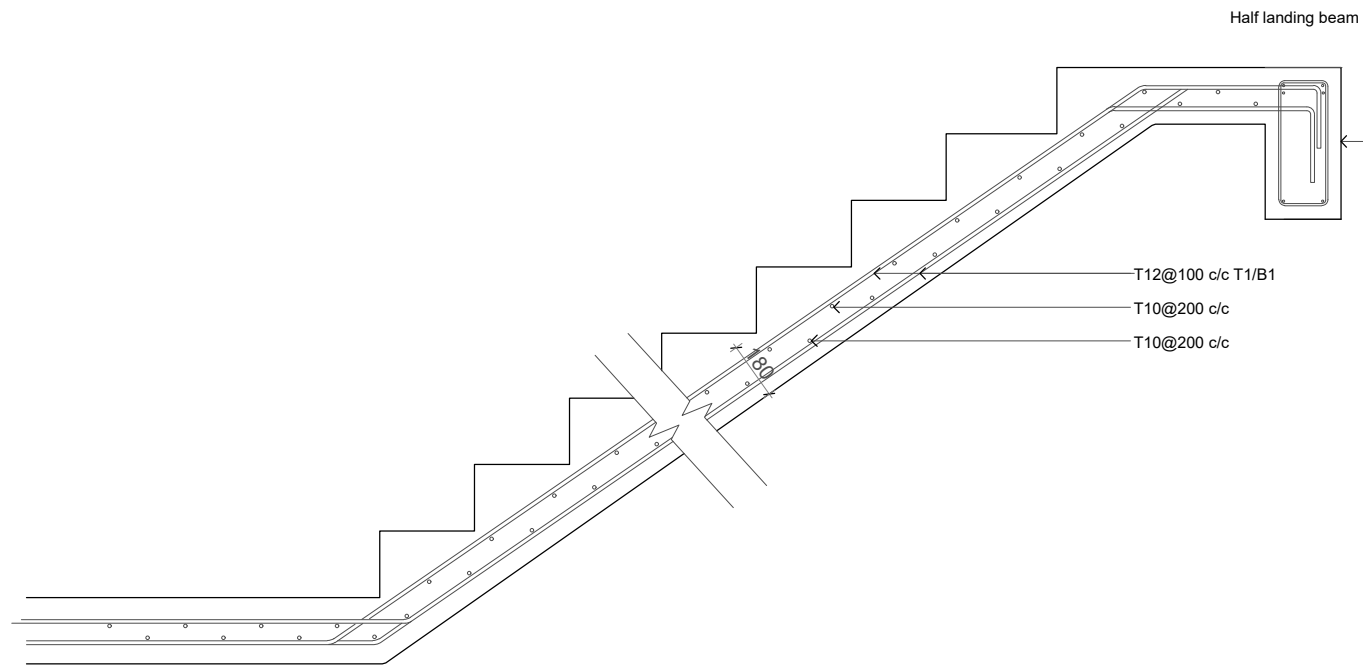
SCALE 1:20
 0 0.1 0.2 0.4 0.6 0.8 1

1. Post top, bottom & 1.2m vertical support members to be 75x75x2.5mm thick GI SHS (2 coats of anti-corrosive paint with approved finishing color coat)
2. Handrail material to be 50mm Ø 2.5mm thick GI CHS with 2 coats of anti-corrosive paint and approved finishing coat
3. Step: 300mm
4. Rise: 152mm

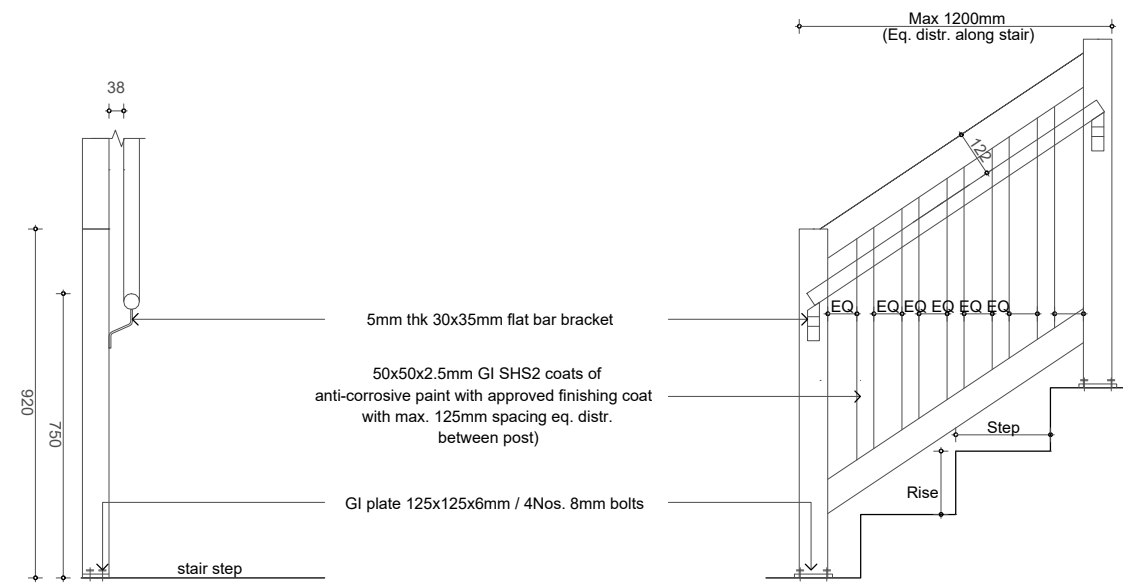
STAIRCASE DETAILS 1

SCALE 1:50
 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 R.FAINU SCHOOL - 10 CLASSROOM, LIBRARY. AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E13 / 18		



STAIRCASE REINFORCEMENT DETAIL

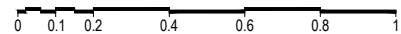


1. Post top, bottom & 1.2m vertical support members to be 75x75x2.5mm thick GI SHS (2 coats of anti-corrosive paint with approved finishing color coat)
2. Handrail material to be 50mm Ø 2.5mm thick GI CHS with 2 coats of anti-corrosive paint and approved finishing coat
3. Step: 300mm
4. Raise: 152mm

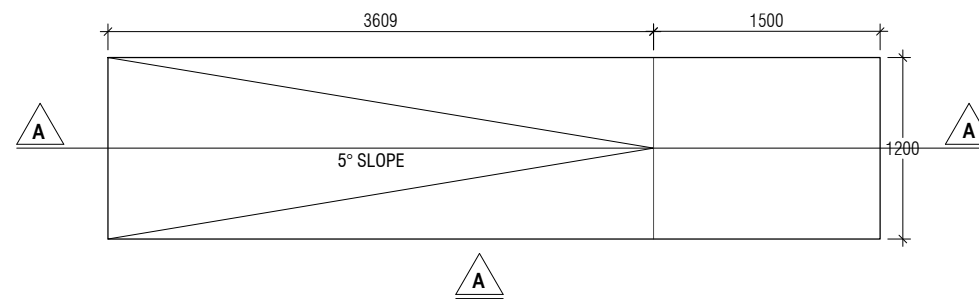
STAIRCASE RAILING DETAIL

STAIRCASE DETAIL 2

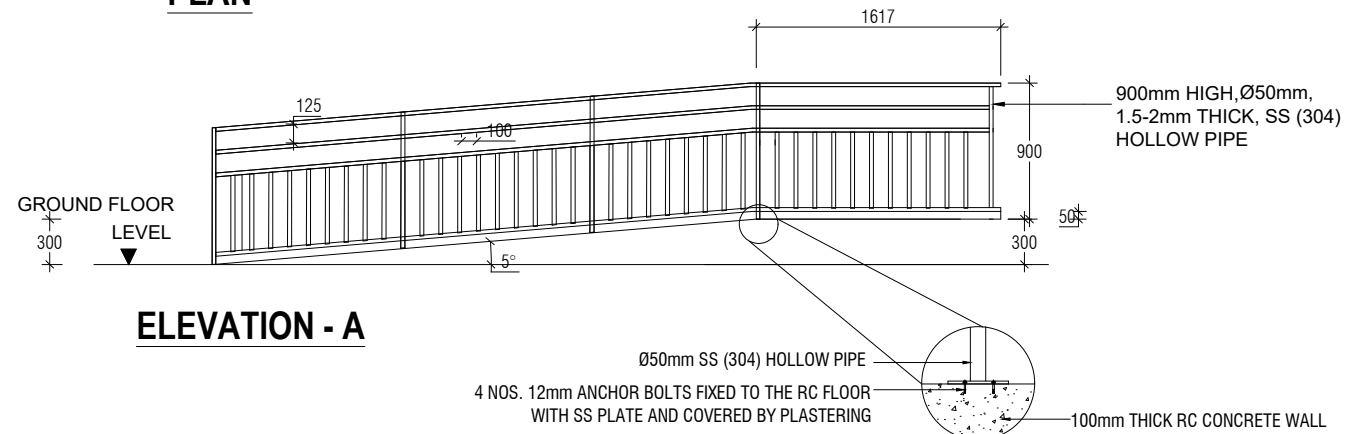
SCALE 1:20



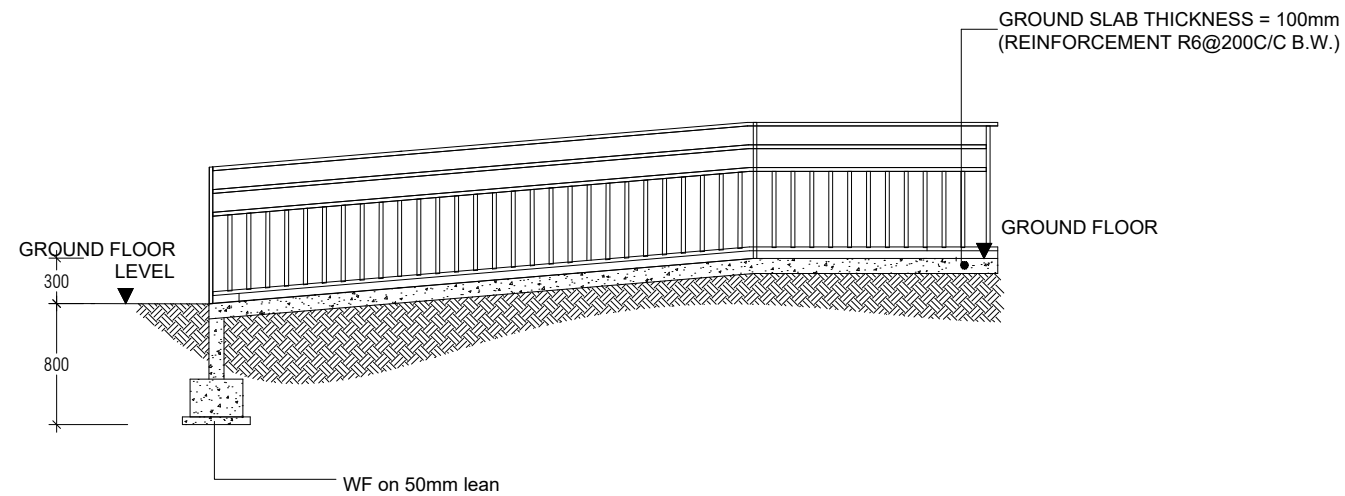
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL - 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 14 /18		



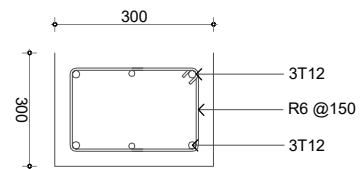
PLAN



ELEVATION - A



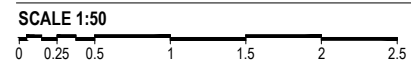
SECTION A-A



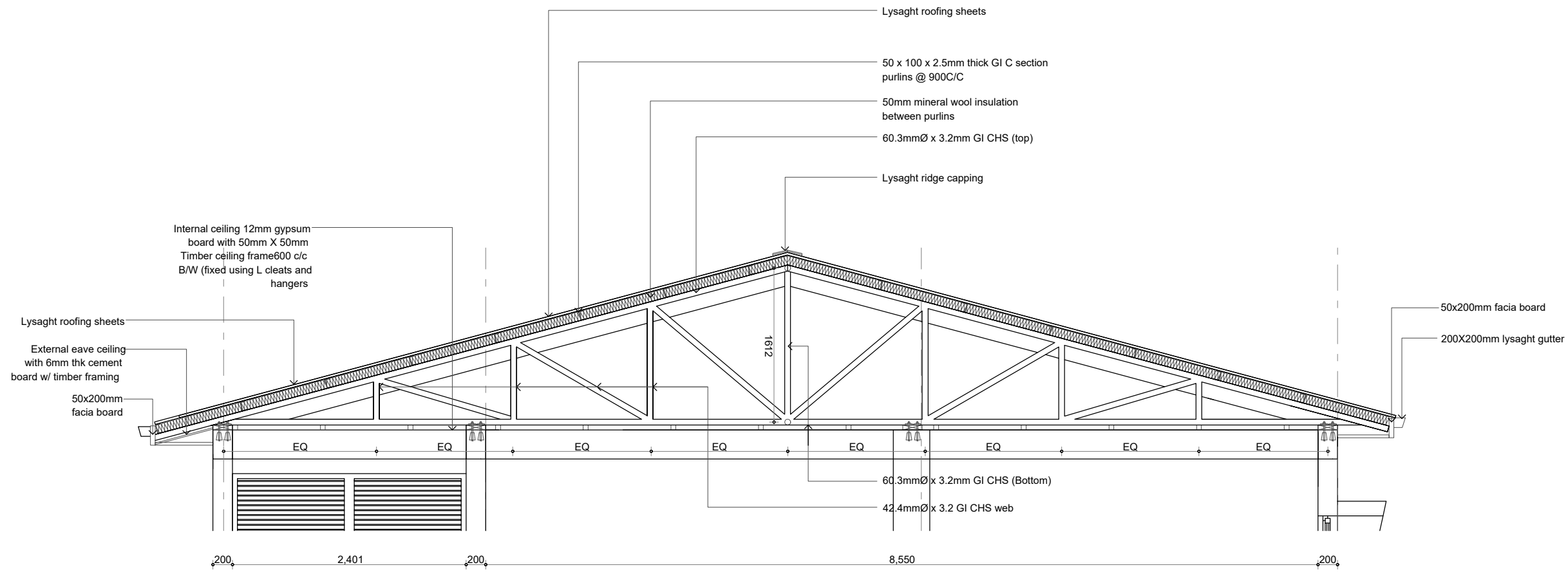
Wall Footing (WF) Detail

Scale = 1:20

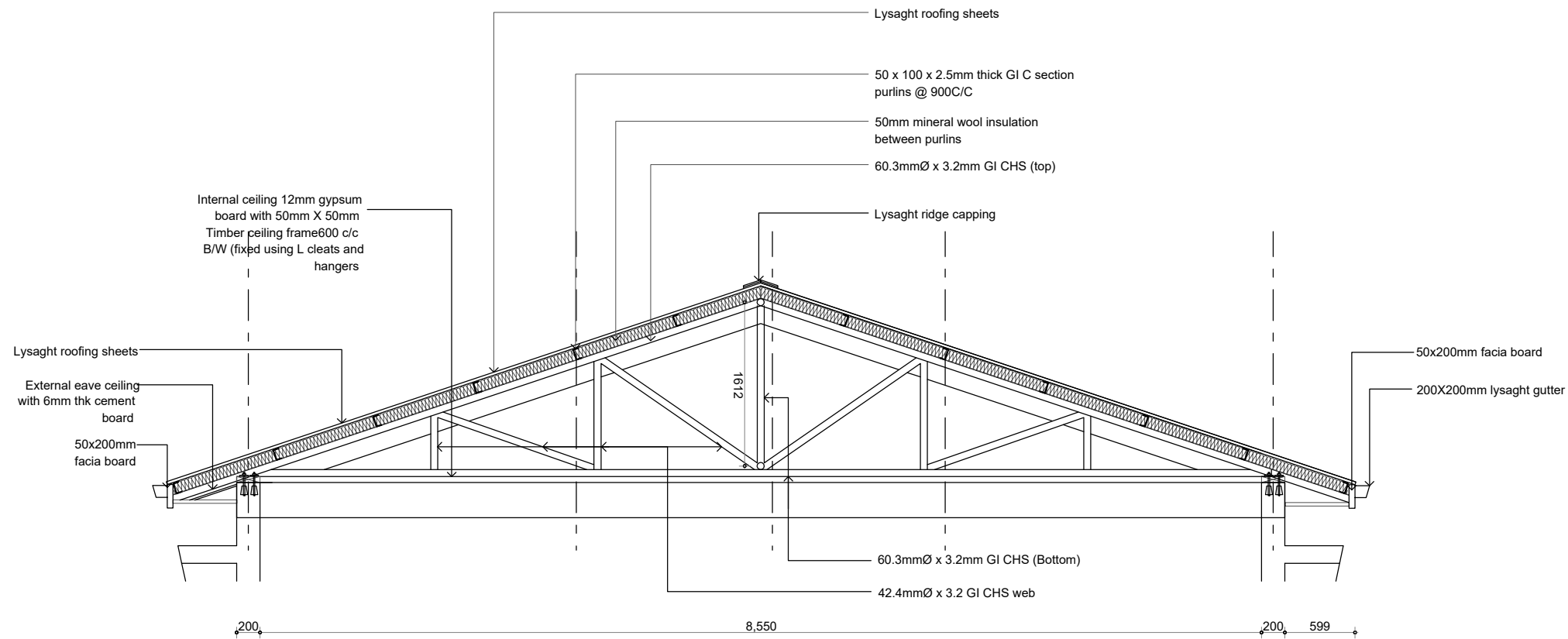
BUILDING ENTRANCE RAMP



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E 15/ 18		

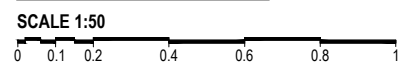


Truss TR 1 Detail D-01

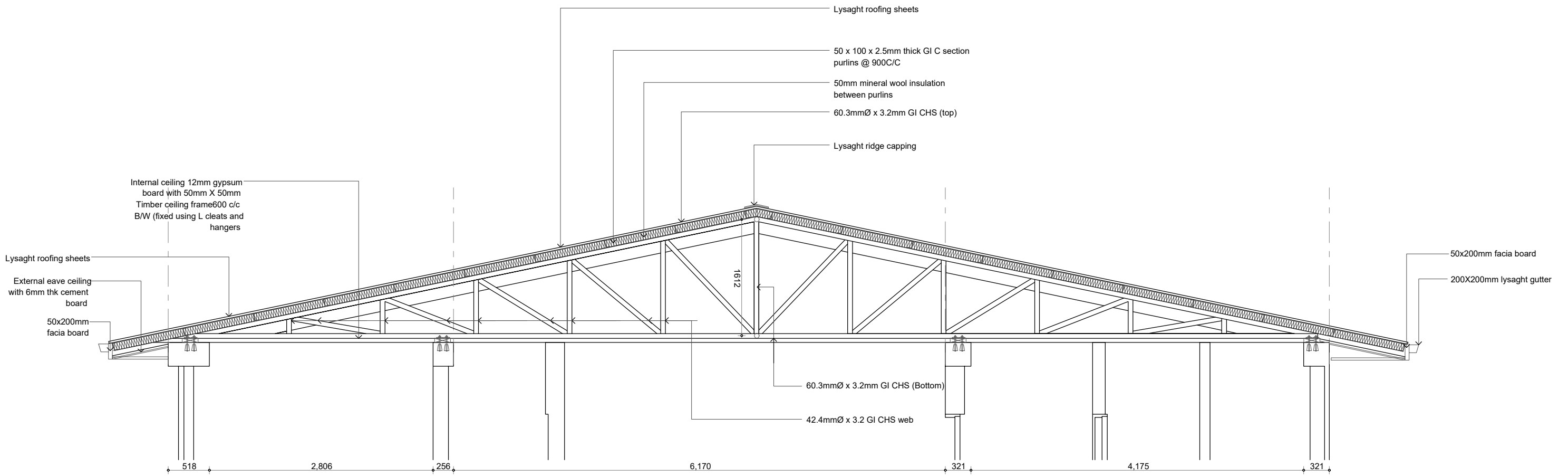


Truss TR2 Detail D-01

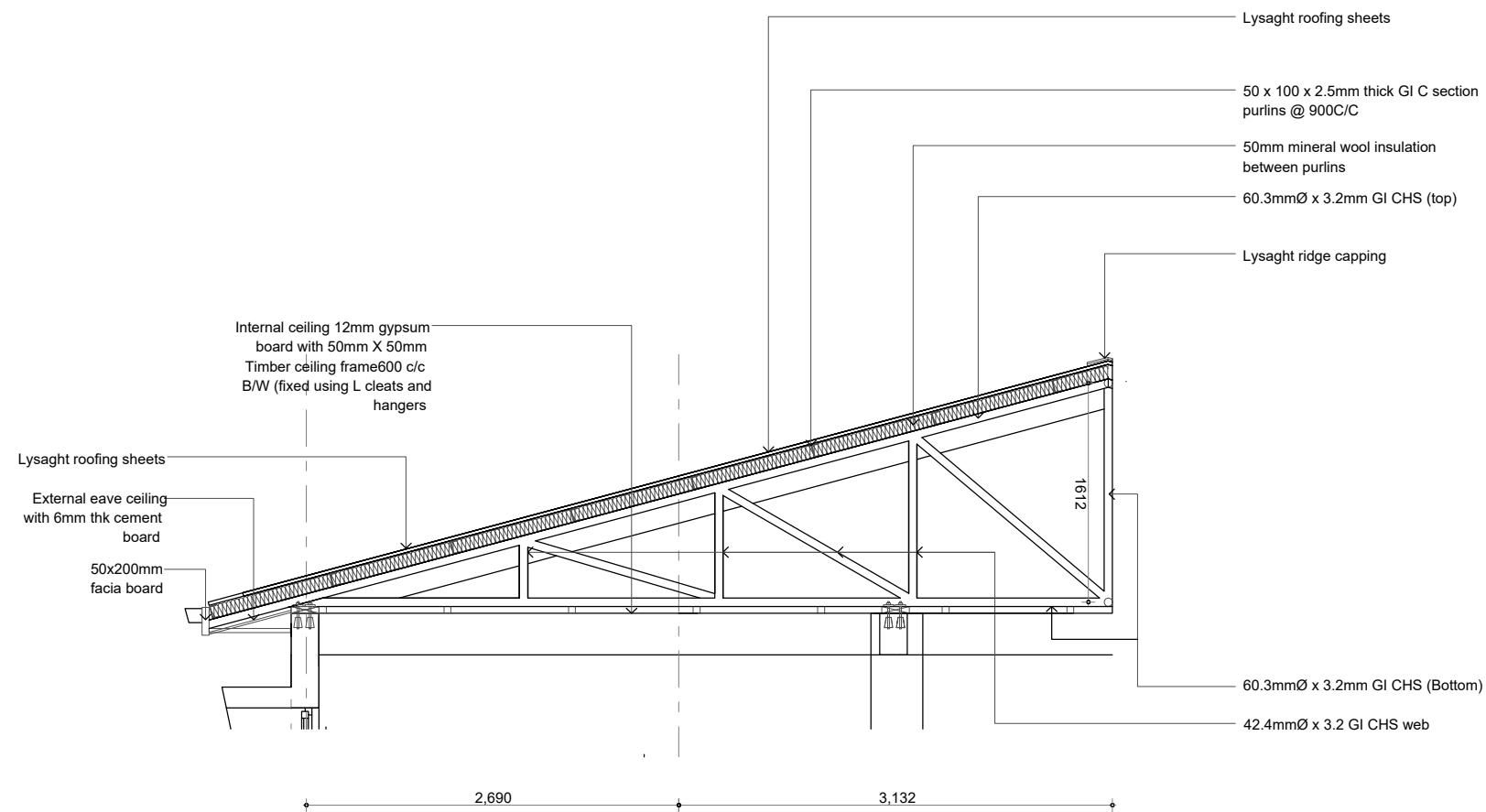
TRUSS DETAIL 1



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL - 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E16 / 18		



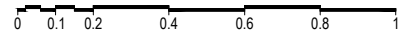
Truss TR3 Detail D-01



Truss TR 1A Detail D-01

TRUSS DETAIL 2

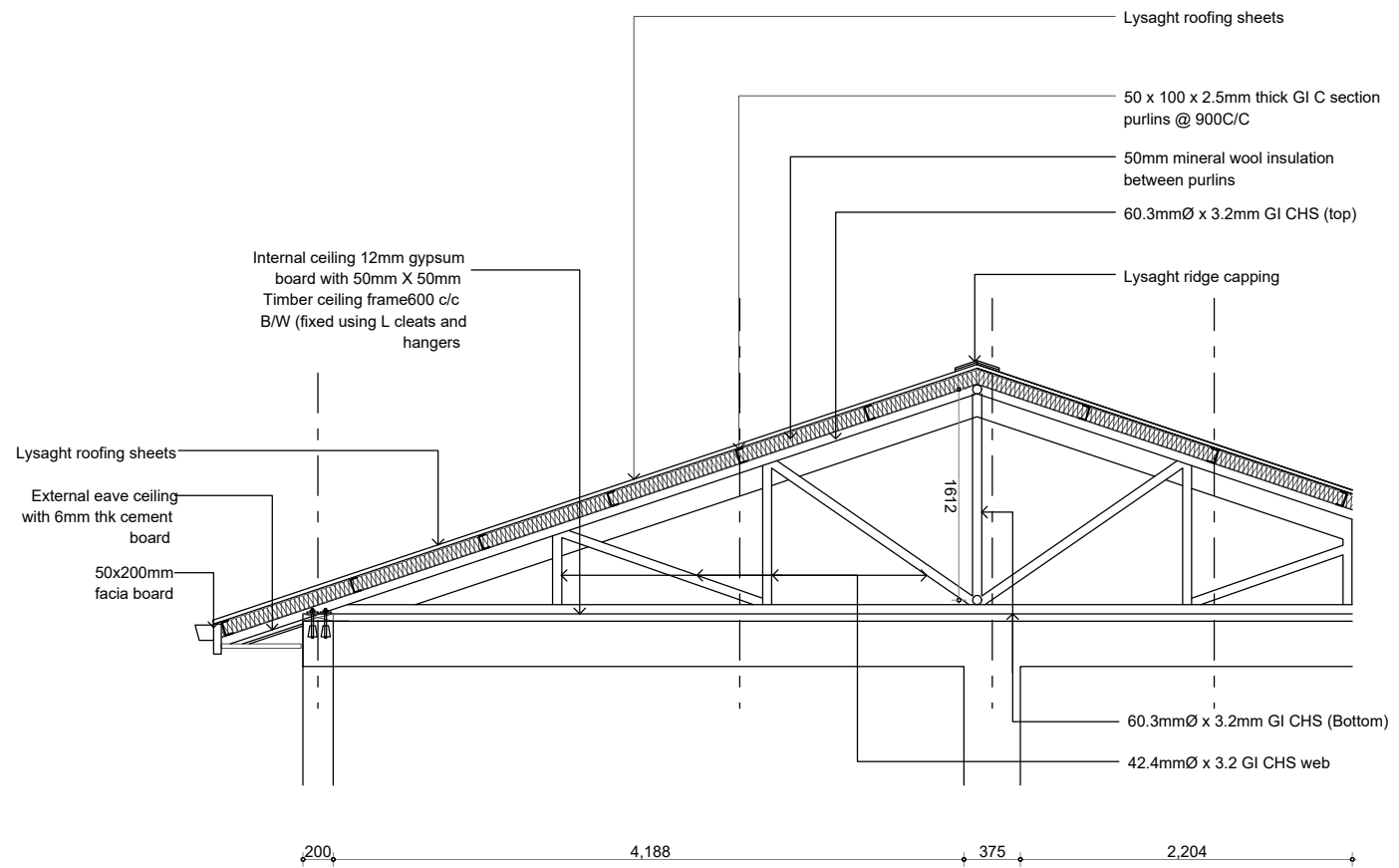
SCALE 1:50



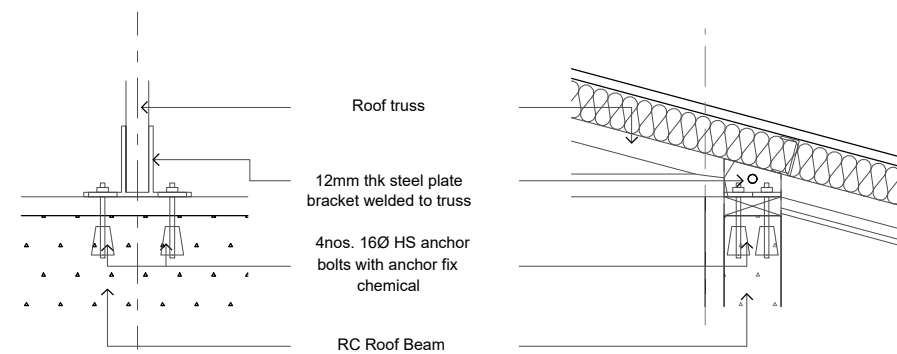
Notes:

- All the CHS shall have minimum yield stress of 275MPa
- All welds shall be 6mm thick full parameter fillet welds
- All truss ends shall be capped with 6mm plates
- All truss members shall be protected with anti corrosive coatings

Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL - 10 CLASSROOM, LIBRARY, AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E17 / 18		



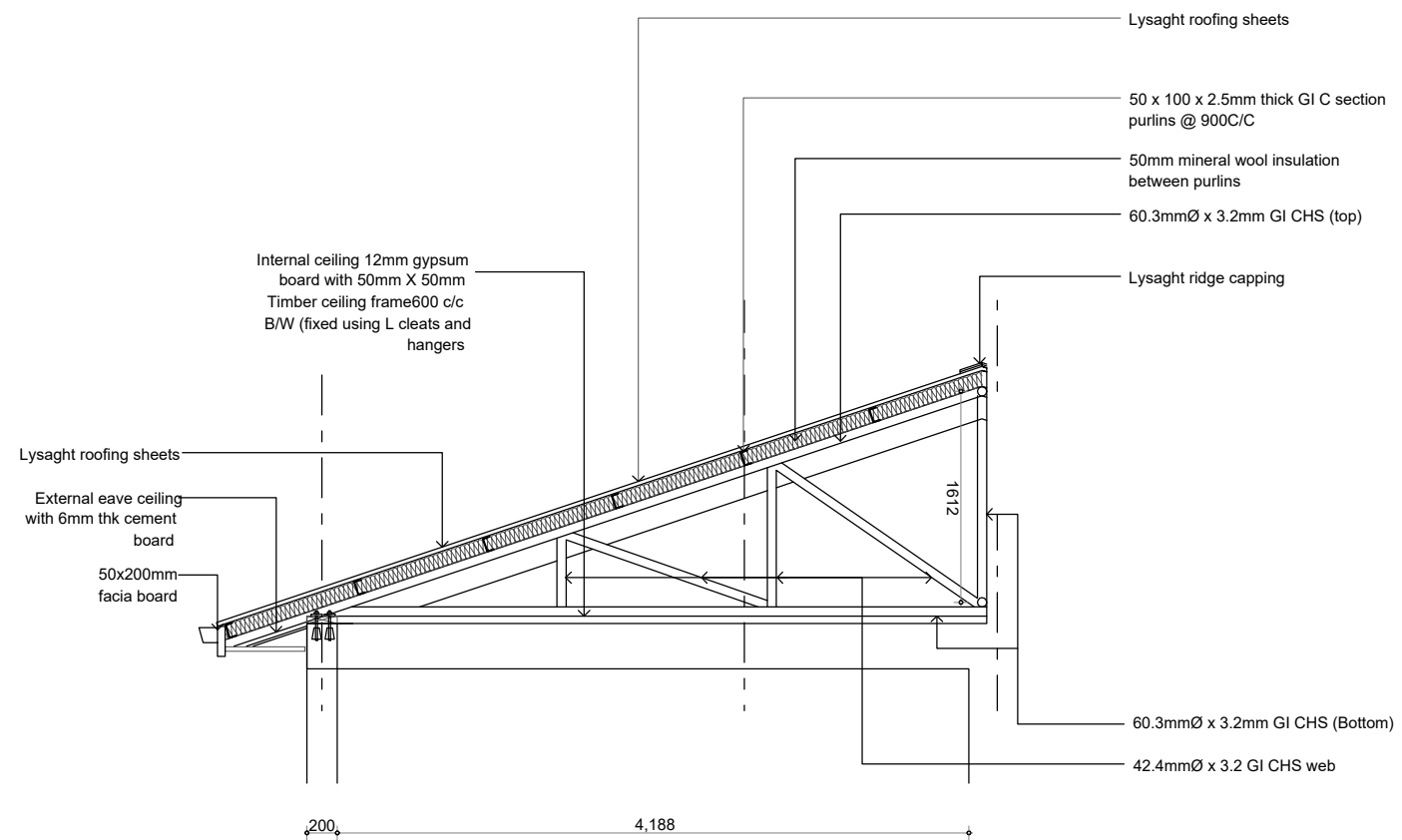
Truss TR2B Detail D-01



Truss Fixing Detail

Notes:

- All the CHS shall have minimum yield stress of 275MPa
- All welds shall be 6mm thick full parameter fillet welds
- All truss ends shall be capped with 6mm plates
- All truss members shall be protected with anti corrosive coatings



Truss TR2A Detail D-01

TRUSS DETAIL 3

SCALE 1:50



Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT R.FAINU SCHOOL - 10 CLASSROOM, LIBRARY. AV ROOM 03 Storey Building		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 04.10.2021		
DWG NO : E18 / 18		

1. General notes

1.1. Do not scale the drawings. All dimensions shall be read from the drawing or computed. Elevations are in millimeters, distances and reinforcement bar sizes are in millimeters.

1.2. In the interpretation of these drawings, indicated dimensions shall govern and distances or sizes shall not be scaled for construction purposes.

1.3. The contractor shall coordinate with the ar, se, ee and other utility and equipment plans for the exact size, number and locations of all sleeves or openings through floor slabs, beams and walls. Any discrepancies or conflict in the setting out lines, levels, details, locations, sizes, reinforcement etc. Of the structural member shall be brought to the attention of the engineer prior to commencement of work.

1.4. All reinforced concrete work shall be done in accordance with the british structural code bs 8110 or ec-en2 building code.

All structural steel work shall be done in accordance with the british structural code bs5950 parts 1to 9 and ec-en3 in so far as they do not conflict with the local building code requirements.

All slabs, beams and other structural elements which are not indicated, detailed, designated or inadvertently omitted but are necessary to be coordinated with architectural and other allied engineering plans as well as to complete the structural works in accordance with the intent of the plans and specifications shall be brought up during pre-bids/meetings/negotiations. It is understood that the contractor has provided and included all these items in his

bid.
1.7. The contractor shall produce shop drawings and schedules as required for completion of the works and record drawings of the as-built and builder works for the consultant's approval.

1.8. Contractor shall do full coordination between structural, architectural and mep drawings in wet areas to allow for drainage pipes.

All discrepancies shall be brought to the attention of the consultant engineer proceeding with the work on site.

1.9.
1.10. All materials to be used in conjunctions shall comply with the requirements of the specified codes, standards and ordinance of relevant building authorities unless noted otherwise in the project specification and /or drawings.

1.11. All dimensions and levels shown on the drawings shall be verified by the contractor . Any discrepancies shall be brought to consultant's attention prior to construction.

1.12. The contractor shall ensure that during construction, no part of the structure is overstressed by excessive construction loads until their completion. Temporary bracing and propping to be provided were required.

1.13. Once the excavation is done to a specified depth, the bearing capacity of the soil shall be confirmed by relevant test, if the value is less than the design bearing capacity the engineer is to be informed immediately.

1.14. The contractor shall submit a method statement for all elements of work and shall not proceed until consultant's written approval is given. The method statement shall provide the contractor's preferable options where such options are available.

1.15. The contractor shall comply with all requirements of the local regulations and requirements of all concerned authorities.

1.16. Quality of concrete finish for all non-plastered columns and beams is to be in accordance with- fair faced concrete as reflected on the architectural drawings and specifications.

1.17. Any structural requirements specified by relevant authorities, which are not covered in notes and specifications are assumed to be duly considered by the contractor.

1.18. All typical details and notes shown on drawings shall apply unless noted otherwise. Typical detail may not necessary be indicated on the plans but shall still apply as shown or described in the details where particular details are noted on the drawings the specified details shall be used.

1.19. The design life of the structure of this project shall maintain a minimum of 50 years life period. The primary structural components are to be designed and detailed to satisfy this requirement. Concrete mix supplier shall submit a life cycle analysis which reflect a 50 years design life without maintenance, inspection and repair requirement during this period.

2. Concrete

2.1. All concrete works shall conform to the bs8110 or ec-en, a grade of c25/30 indicates that concrete shall have a fcu compressive strength of 30n/mm2 established from test cubes at 28 days equivalent to a compressive strength of 25n/mm2 established from cylinder tests at 28 days.

concrete mix design shall comply with bs8500-1:2006 as follows:

Mix Number	1	2	3	4
Grade	C30/37	C25/30	C25/30	C16/20
Min cement content (kg/m ³)	380	340	340	300
Cement Type	SRC	SRC / OPC	OPC	SRC
Max free W/C ratio	0.4	0.45	0.45	0.55
Slump	75 ± 25	75 ± 25	75 ± 25	100 ± 25
Aggregate	20	20	20	20

mix 1 - used in reinforced concrete works for structures at sea/exposed to sea, water retaining structures and tank structures.

mix 2 - used in reinforced concrete works for ground level and below (sub-structure) or any reinforced concrete works in contact with soil or water.

mix 3 - used in reinforced concrete works above ground flr lvl (superstructure) for horizontal members (beams/slabs) and vertical members (columns/walls).

mix 4 - used for plain concrete blinding and mass fill.

2.2. Contractor shall implement a trial mix in accordance with the project specifications & authority requirements. Trial mix results shall be submitted for engineer's review & approval prior to commencing concreting.

2.3. Contractor shall submit the details of additives, plasticizers, micro silica, curing compounds, waterproofing agents, etc. Application should follow strictly the manufacturer recommendation. It is contractors responsibility to ensure that all constituents of concrete are compatible to each other.

2.4. Maximum percentage (by weight) of salt contents permissible in aggregates used for concrete, hollow blocks & hourdi blocks, etc, shall be as follows:

- acid soluble chlorides in aggregate - (fine 0.03%, coarse 0.02%)
- acid soluble sulphate in aggregate - (fine 0.3%, coarse 0.2%)

2.5. Concrete shall be cured by an approved means in accordance with the specifications.

2.6. Aggregates shall be from approved source and in accordance with the specifications.

2.7. Openings, sleeves:

- no holes, sleeves or penetrations be placed vertically or horizontally through beams unless approved by the engineer.
- no holes to be made in slabs unless approved by the engineer.

2.8. Construction joints:

- the contractor shall submit to the engineer for approval a plan marked up showing the location of all construction joints
- horizontal construction joints shall not be made in beams, unless approved by the consultant or engineers.
- vertical construction joints may be located at midspan of slabs or beams after reviewed and approved by the engineers.
- contractor shall submit shear friction and the additional required reinforcement calculation of construction joint at any location) for engineers review and approval.

3. Reinforcement

3.1. The reinforcement used in the reinforced concrete shall be round, deformed type 2 bars marked as (t) to indicate high yield strength of 460n/mm2 to bs4449 or type 500b to ec-en. The carbon equivalent of rebars should not exceed 0.51 for grade 460.

3.2. Reinforcement details shown are indicative. The contractor shall prepare detailed shop drawings & full bar schedules in accordance with the design drawings and shall be cut and bent in accordance with bs 8666 and aci 315-09 for the engineer's approval at least four weeks prior to commencement of reinforced concrete work and after coordinating with all concerned parties.

3.3. Lap lengths and anchorage lengths of reinforcement shall be as per bs 8110 and ec en. Additional lapping if required to be provided with engineer's approval. The minimum lap length of reinforcement shall be the maximum of (45 bar dia in general and 50 dia for tension) or the values of the table a.

Table a : schedule of lap splices

Bar dia	lap splices length (mm)
10	500
12	600
16	800
20	1000
25	1250

3.4. Spacer bars in beams shall be a minimum t25 or the size of bar if greater at 1000mm c/c; chairs in slabs shall be a minimum t12@1000mm c/c; and minimum ties in walls shall be t8@1000mm c/c.

3.5. Clear cover to reinforcement including links, stirrups, and ties shall be as follows:

A) structure in contact with ground

- Footings = 60mm
- Wall and column = 50mm
- Ground beam = 50mm
- Slab at ground level = 50mm

B) super structure

- Columns = 40mm
- Beams = 35mm
- Slabs = 30mm
- Walls = 40mm
- All concrete elements in contact with water/splash zone = 50mm

3.6. Reinforcement bars to be cut, bent or adjusted to clear all openings and interfering structures to suit at site to the approval of the consultant or engineer.

3.7. For holes in slabs up to 300x300 sq., reinforcement is to be cut and replacement bars fixed adjacent to the hole extending 50x bar diameter beyond the hole.

4. Fire resistance

4.1. All structural concrete members between units on boundaries are designed to maintain fire resistance of 2 hours.

5. Cracking

5.1. The cracking of the structural concrete in general is restricted to 0.30mm.

6. Earthwork & foundations

6.1. Foundation detail design is based on the assumed safe allowable bearing capacity has been taken as 150kpa. The actual requirement for the foundation design is to be verified based on final geotechnical report for the project.

6.2. Excavations for foundations down to formation level shall be carried out by mechanical means, except for the last 100mm of excavation which is to be carried out by manual methods and recommended by geotechnical consultant.

6.3. The formation level of foundation is to be inspected and approved by the geotechnical engineer before commencement of the work.

6.4. Engineering fill (unless specified otherwise as a higher quality material) shall be selected well graded granular material approved by the engineer with a minimum soaked cbr of 15% compacted not exceeding 250mm in layers to 95% maximum dry density as per geotechnical investigation report recommendations in accordance with the specification. However, a minimum cover of 250mm back fill material shall be provided at the top of foundations below the blinding to cast against.

6.5. Efficient site drainage during and after construction of the project should be provided by the contractor.

6.6. Site inspection by a qualified engineer should be carried out after completion of the excavation works and after preparation of the proposed foundation level to ensure that the contact surface is free from any loose/soft layer and properly prepared for the foundation.

7. Concrete workmanship

7.1. All concrete without plaster shall be fair finish unless noted otherwise.

7.2. All concrete surface to have plaster are to be hacked to have an adequate surface key.

7.3. All concrete is to be cured by an approved method-water ponding or curing compound.

7.4. All types of construction joints in concrete shall be at a specified locations and approved by the engineers.

7.5. All substructure concrete works shall be protected with water proofing as per standard details & specifications.

7.6. All concrete shall be compacted using a mechanical vibration process.

7.7. 25x25mm chamfers to external corners and edges shall be provided in accordance with specifications and directed by the engineer.

8. Structural steel

8.1. All structural steel works shall be in accordance with bs 5950 parts 1 to 9 or ec-en3.

8.2. Maximum dimension of holes shall be in accordance with bs 5950 : part 1 : 2000 table 35, unless indicated otherwise.

8.3. The contractor shall provide whatever temporary ties or bracing necessary for a safe and proper erection of the steel structures.

8.4. Welding shall comply with bs en 1011-1: 2009, bs en 1011-2 : 2001 and bs en 1011-8 : 2004.

8.5. Contractor shall do a detailed design for aluminum shades and to submit full design calculations and detailed shop drawings for all steel sections and connections to the engineer for approval prior to commencement of fabrication.

8.6. All rolled products and plates shall conform to bs en 10025-2. Cold form welded structural hollow sections shall conform to bs en 10219-1. Hot finish hollow sections shall conform to bs 10210-1 unless noted otherwise on drawings.

8.7. All connections shall be made with minimum 2nos. Galvanized grade 8.8 to bs 3692 with a minimum diameter of 20mm and minimum yield strength of 627mpa and minimum ultimate strength of 765mpa and electrodes to bsd 639, unless noted otherwise.

8.8. Unless noted otherwise on the drawings, all connections shall be in accordance with the following minimum requirements:

- A) all welds shall be at least 6mm continuous fillet welds all around.
- B) all structural bolted connections should be galvanized minimum 85 micron and with a minimum of 2 bolts per connection. Purlin bolts shall be in accordance with the suppliers recommendations.
- C) all gusset plates shall be at least 4mm thick.
- D) all cap plates shall be at least 4mm thick.
- E) all base plates shall be at least 4mm thick.

8.9. As minimum all structural steel members shall be shot blasted to sa 2.5, galvanized, primed & painted as below unless noted otherwise:

- A) hot galvanization (dft 200micron)
- B) primer coat to contain 2 coats of zinc rich epoxy primer (dft 75 micron)
- C) top coat to contain 2 coats of polyurethane enamel paint (dft 125 micron)

8.10. All structural steel work shall be corrosion protected in accordance with the structural specifications.

8.11. All steel should conform to the following:

- A) shs, rhs and chs sections bsen 10210 s275 fy=275mpa
- B) all angles and channels u.n.o bsen 10025 s275 fy=275mpa

8.12. All steel columns to be central on grids or equally spaced between grids unless noted otherwise.

8.13. All steel beams to be central on grids or equally spaced between grids unless noted otherwise.

8.14. All steel dimensions are to center line of section unless noted otherwise.

8.15. All bracing is to be set out on the centroids of bracing members and on the center line of beams and columns unless noted otherwise.

8.16. Where bracing is shown offset from center of members the contractor shall design and provide all necessary stiffeners.

8.17. Contractor to provide all leader railing as required to support free edges not trimmed with cold formed or mild steel work. To be provided in accordance with architect 's drawings.

8.18. Location of any connections, splices not shown in the drawings shall be submitted with design for engineer's approval. No splices shall be made unless shown in the drawings and as approved by the engineers.

8.19. Contractor shall do a full coordination between architecture and structural drawings for the steel support for shade elements, locations and sizing connections with structural concrete elements and sections. Care shall be taken to prevent dissimilar metal corrosion.

9. Masonry blocks

9.1. Design and construction of all blocks shall comply with bs 5628 : parts 1.2 & 3 : 1992 or en-ec6. The contractor shall submit a construction method statement prior to commencing the works.

9.2. Wall ties in accordance with bs 1248 - cp 121 part 1.73.

9.3. All block wall joints to manufacturers specifications.

9.4. All block work walls are to be considered as non-load bearing partitions unless noted otherwise in drawings.

9.5. Block walls shall be reinforced horizontally and vertically as per manufacturers requirements.

9.6. Masonry wall mechanical properties

young's modulus	= 3.5e+006 kn/m2
poisson's ratio	= 0.25
density	= 20kn/m3
min.compressive strength	= 3.5 mpa

10. Design & loading

10.1. Consultant design

design and construction of reinforced concrete structural members, shall be in accordance with bs8110 & ec-en2 and the structural steel members to bs 5950 & ec-en3.

10.2. Contractor design

the contractor is responsible for the design of all temporary works. (shoring for excavation, signage... Etc) and the following items of permanent secondary works. (subjected to engineers review and approval)

- a) precast concrete elements
- b) architectural facade and support steelwork
- c) non load bearing feature columns
- d) all secondary steel works
- e) structural steelwork connections
- f) structural support for mep services
- g) shade structures
- h) balustrade and crash barrier
- i) structural glass
- j) interior signage

the design of the primary structure is considering the interfaces with these structures) loading reactions, opening...etc.) And were detailed to accommodate these elements into the design.

the contractor shall submit a full detail design for the wall and boundary wall foundation, also the contractor to do

full coordination between the structural foundation for villas (including the water tanks, and the boundary wall for clashes, the contractor shall produce shop drawings for the boundary walls for engineer's approval.

10.3. Loading

- a) superimposed (dead loads & live loads) as per bs 6399 or en-ec1.
- b) self-weight & densities as per bs 648 or en-ec1.
- c) wind loads as per bs 6399 or en-ec1 (mean wind speed = 25m/s).

11. Timber

11.1. All timbers shall be in accordance with bs 5268 or ec-en5

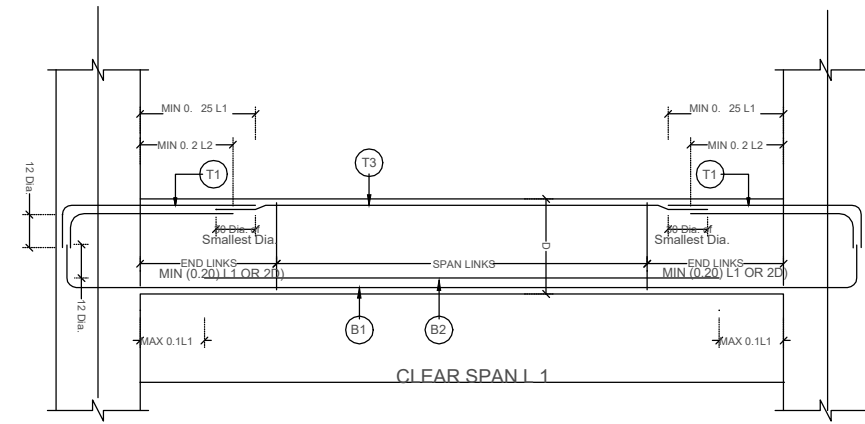
11.2. All timber members sizes are indicative. Contractor shall coordinate with supplier and submit detail designs for all prefab timber structure for approval.

Notes:

1. First stirrups location shall be $s/2$ from the face of the column/ support.
2. Place one b bar in each bottom corner and one t bar in each top corner of the stirrup cage.
3. Condition shown is at columns. Where beams and girder intersect, use typical interior girder section.
4. All bottom bars and top bars shall be placed in one layer unless two layers are noted in the beam schedule. Where to layers are noted provide 25 mm clear between layers. If two layers are noted place bar b1 above bar b and bar t above t1.
5. Length of exterior top bars are given only when straight bar occurs otherwise hooked bars are required.
6. Where a member is supported by a column, but has another member running perpendicular to it at the same column, the first stirrup spacing shall start from the face of the column and not from the face of the transverse beam.
7. Top & bottom reinforcement lapping of both main rebars can be ignored if the main rebars at left and right side of lapping location are identical.
8. For 'column width less or equal 2m $l^* = \text{column width} / 2$ '. For 'column width' greater than 2m, $l^* = 1\text{m}$

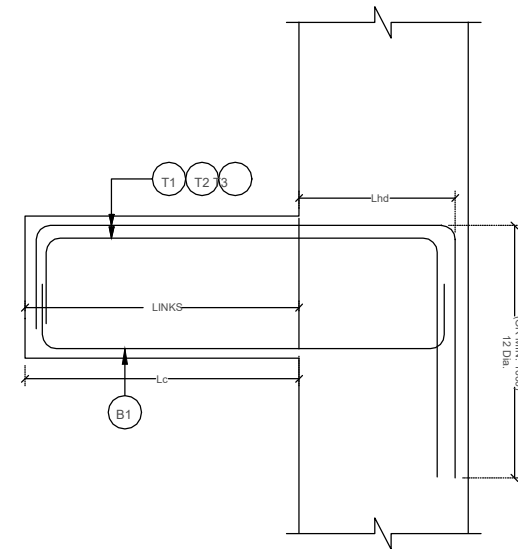
Supplementary abbreviations:

- B1 - continuous bottom bars.
- B2 - additional bottom bars
- CE - cantilevered end
- D - depth of member, mm
- EE - each end
- EF - each face
- FL - full length
- EW - each way
- H - aci standard hook
- ITB - interior top bar
- LE - left end
- LG - length
- P - paired stirrups
- RE - right end
- REM - remainder
- S - side bars
- T1 - top bars at internal supports
- T2 - top bars at mid-span
- T3 - top bars at end support
- W - width of member, mm



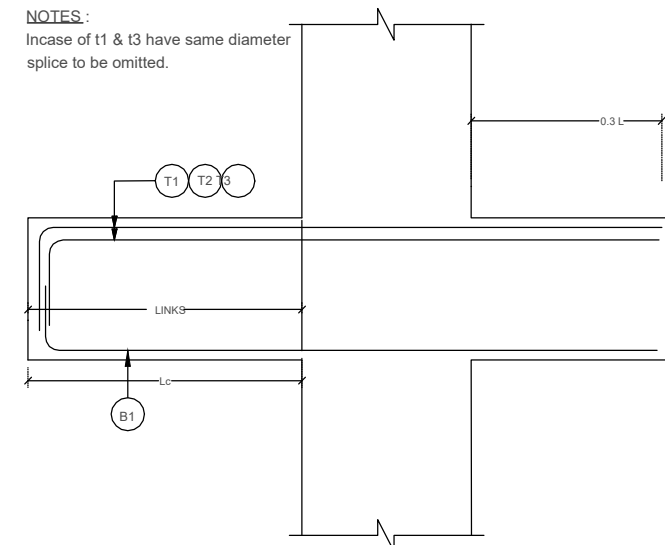
SIMPLE BEAM DETAILS

NTS



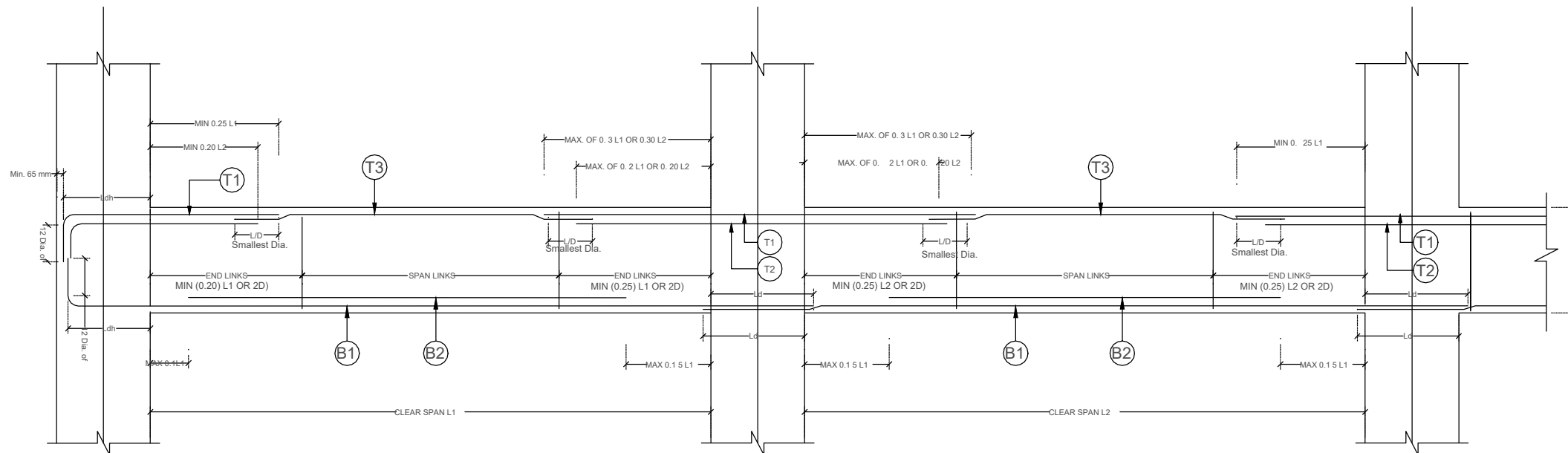
TYPICAL CANTELEVER BEAM FROM COLUMN

NTS



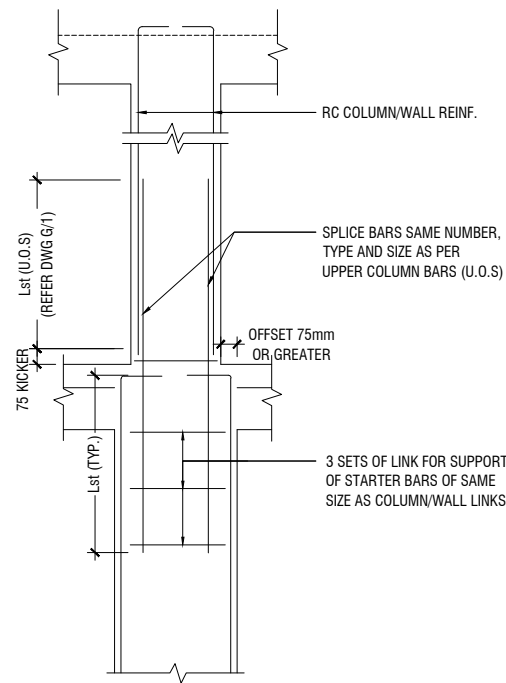
TYPICAL CANTELEVER BEAM CONTINUOUS

NTS

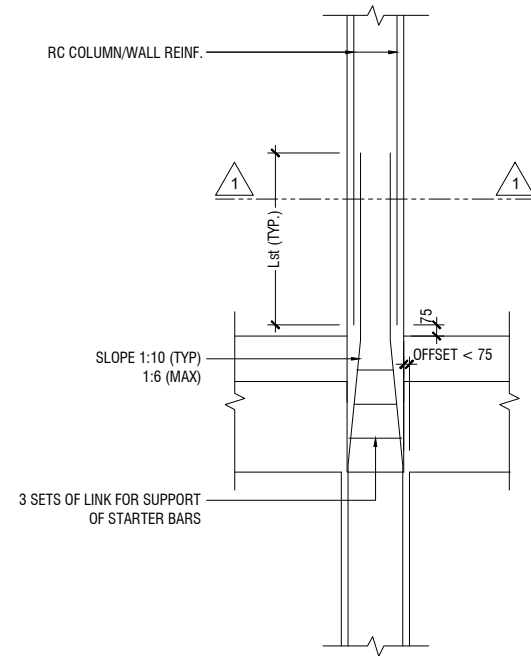


CONTINUOUS BEAM DETAILS

NTS

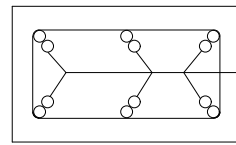


A) FOR COLUMN OFFSET > 75mm
TO BE VERIFIED BY THE CONSULTING ENGINEER



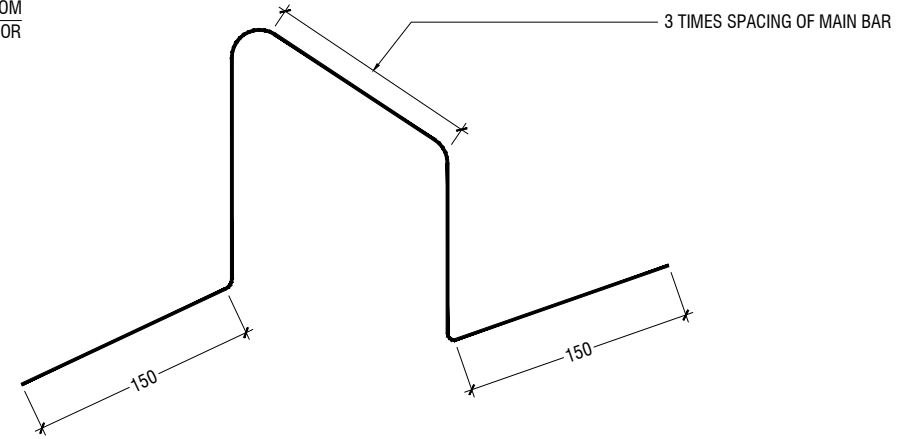
B) FOR COLUMN OFFSET < 75mm

COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL

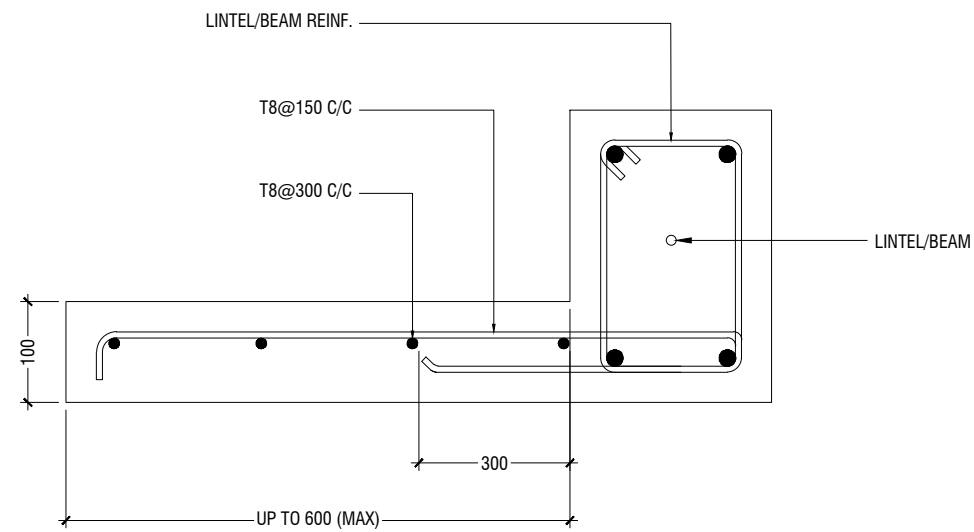


SECTION-1-1

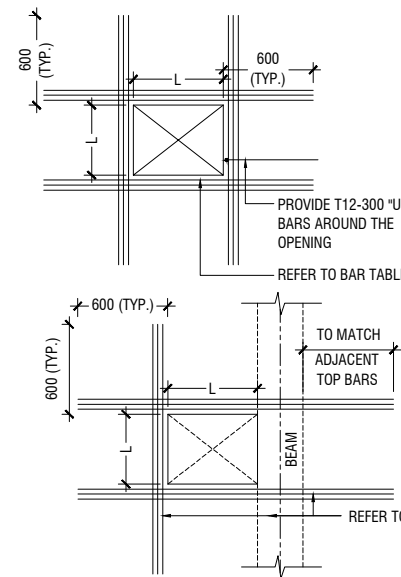
REINF. FROM LOWER FLOOR



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




















Proposed 10 Classroom, Library, AV Room & Health room
R.FAINU SCHOOL
R. Fainu
(03 Storey)

BUILDING SERVICES DRAWINGS
Ministry of Education
Male', Republic of Maldives

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





DRAWING No.	TITLE	REVISION No.	DATE	REMARKS
S E R V I C E S				
DR - 01 /03	GROUND FLOOR DRAINAGE LAYOUT	---	---	---
DR - 02 /03	FIRST - THIRD FLOOR DRAINAGE LAYOUT	---	---	---
DR - 03 /03	ROOF DRAINAGE LAYOUT	---	---	---
PL - 01 / 02	GROUND FLOOR PLUMBING LAYOUT	---	---	---
PL - 02 / 02	FIRST - THIRD FLOOR PLUMBING LAYOUT	---	---	---
EL - 01 / 02	GROUND FLOOR LIGHTING LAYOUT	---	---	---
EL - 02 / 02	FIRST - THIRD FLOOR LIGHTING LAYOUT	---	---	---
EP - 01 / 02	GROUND FLOOR POWER LAYOUT	---	---	---
EP - 02 / 02	FIRST - THIRD FLOOR POWER LAYOUT	---	---	---
FDP - 01 / 02	GROUND FLOOR FDP LAYOUT	---	---	---
FDP - 02 / 02	FIRST - THIRD FLOOR FDP LAYOUT	---	---	---

Legend

-  13A Twin Socket
-  13A Power Socket
-  15A Switched Socket @ H.L.
-  13A Twin Socket In Floor Mount Pop-up Box
-  Distribution Board
-  High Level
-  Emergency Light
-  Wall Mounted Speaker
-  Electricity Meter
-  Internet Switchboard
-  Public Address System
-  Computer Network Twin Outlet
-  Computer Network Twin Outlet In Floor Mount Pop-up Box
-  Telephone Outlet In Floor Mount Pop-up Box
-  Telephone Outlet
-  Computer Network Outlet
-  HDMI Socket
-  82Ø PVC Duct For Tel./Internet Cable Lead In Below Ground Slab
-  Main Incoming Cable For Power In 110Ø PVC Duct Below Ground Slab

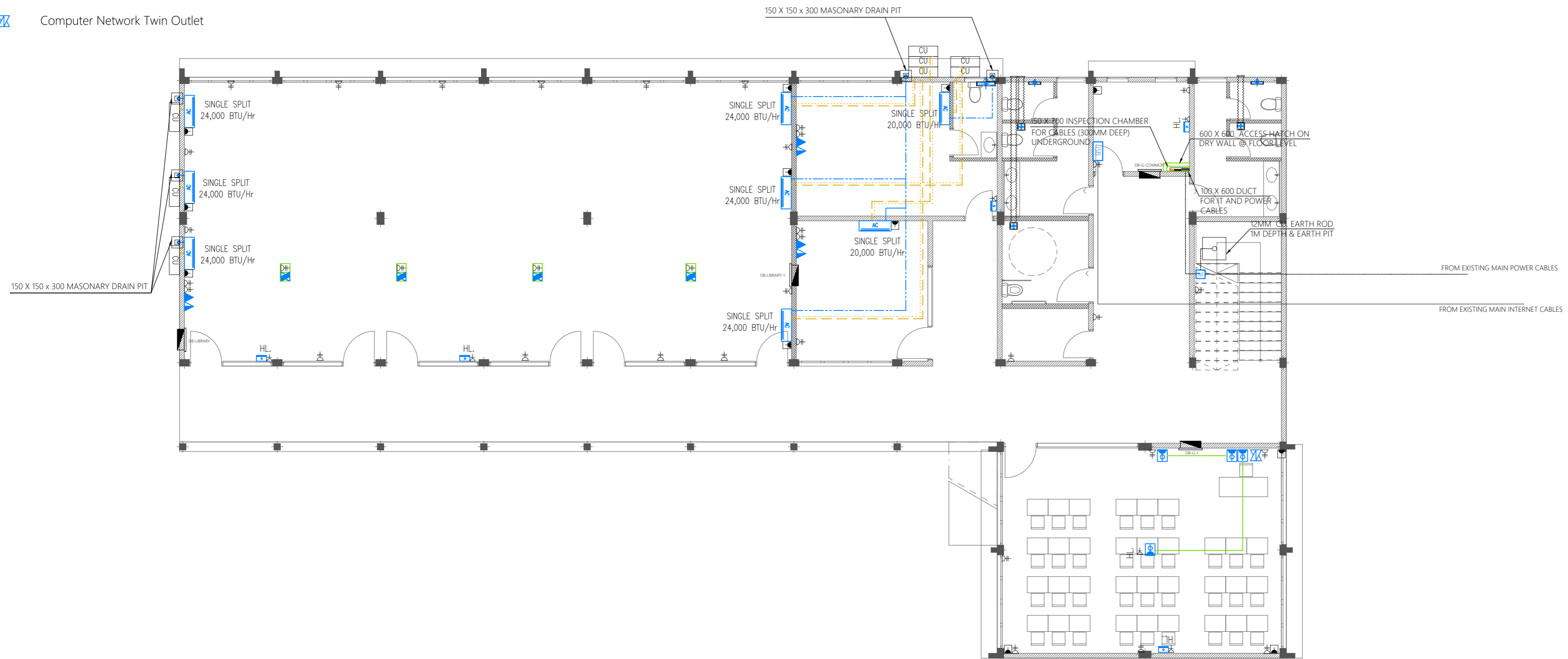
Notes: -
 - All Twin Sockets At 300mm From F.F.L. Except Stated Otherwise
 - All Computer, Telephone Points At 300mm From F.F.L.
 - All electrical components shall be connected to respective Distribution Box in the same area as the component.
 - All electrical components in common areas, corridors and staircase should be connected to Common Area DB
 - Wall Speaker shall be connected to Public address system of school

Legend

-  Ceiling Mounted Exhaust Fan 90m3/hr
-  Wall Mounted Exhaust Fan
-  Wall Mount Air Conditioner
-  Outdoor Condensing Unit
-  Refrigerant Pipes
-  25Ø Condensate Drain Pipe
-  40Ø Condensate Drain Riser Pipe

Notes: -

Where Condensate Drain Pipes Are Connected To Wash Basin Or Kitchen Sink, 25 Ø Condensate Drain Pipe Is Extended In 32 Ø Flex Conduit Into 40 Ø Waste Pipe Of Respective Basin Or Sink

















GROUND - POWER & AC LAYOUT

SCALE 1:150
 0 0.5 1 2 3 4 5

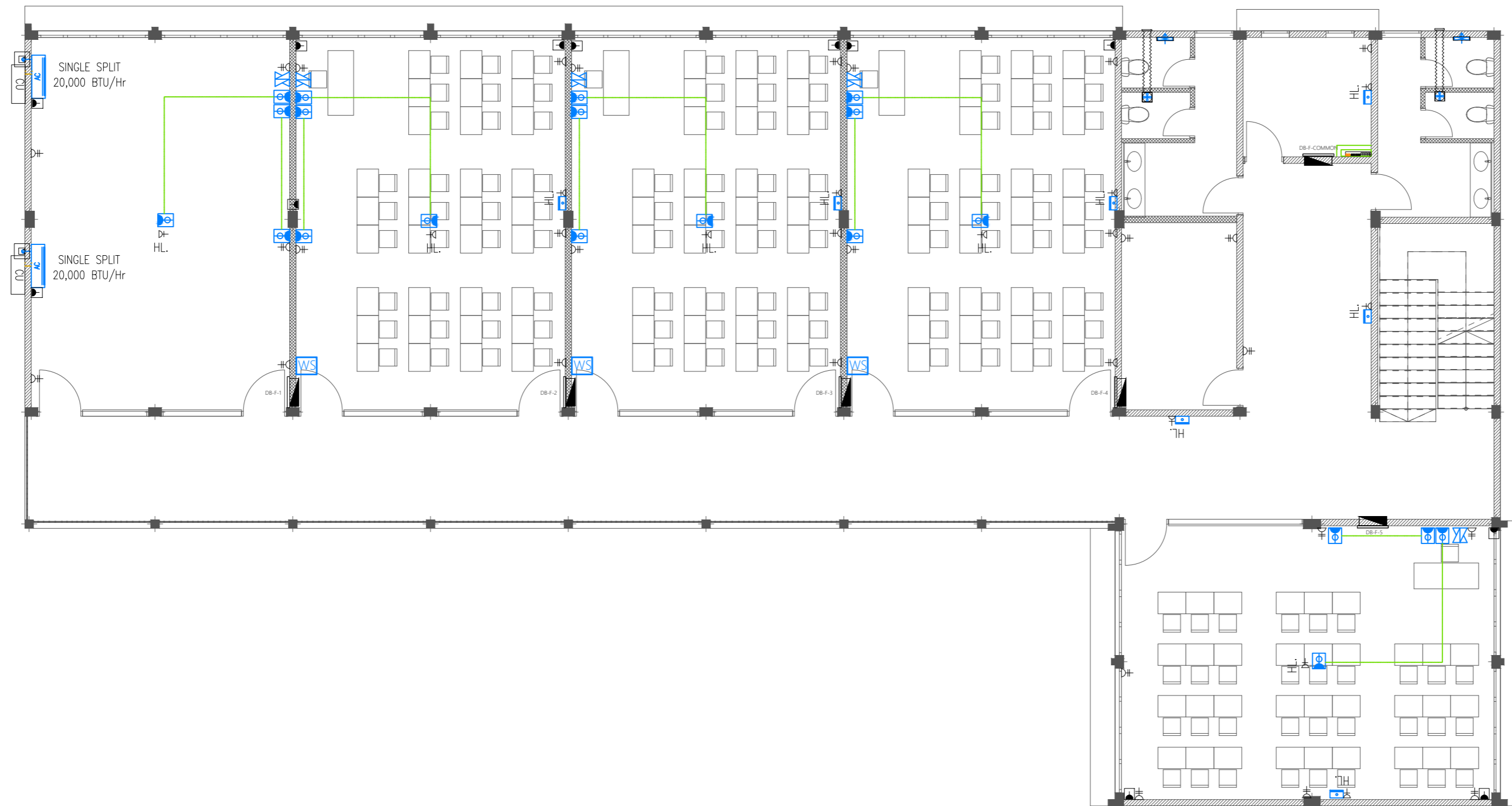
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 01 / 18		

Legend

-  13A Twin Socket
-  13A Power Socket
-  Distribution Board
-  HL.
-  Computer Network Outlet
-  Emergency Light
-  WS
-  M
-  Public Address System
-  Computer Network Twin Outlet
-  HDMI Socket

-  Ceiling Mounted Exhaust Fan 90m3/hr
-  Main Incoming Cable For Power PVC Duct Below Ground
-  82Ø PVC Duct For Internet Cables Lead In Below Ground Slab

- Notes: -
- All Twin Sockets At 300mm From F.F.L. Except Stated Otherwise
 - All Computer, Telephone Points At 300mm From F.F.L.
 - All electrical components shall be connected to respective Distribution Box in the same area as the component.
 - All electrical components in common areas, corridors and staircase should be connected to Common Area DB
 - Wall Speaker shall be connected to Public address system of school


















FIRST FLOOR - POWER & AC LAYOUT

SCALE 1:150
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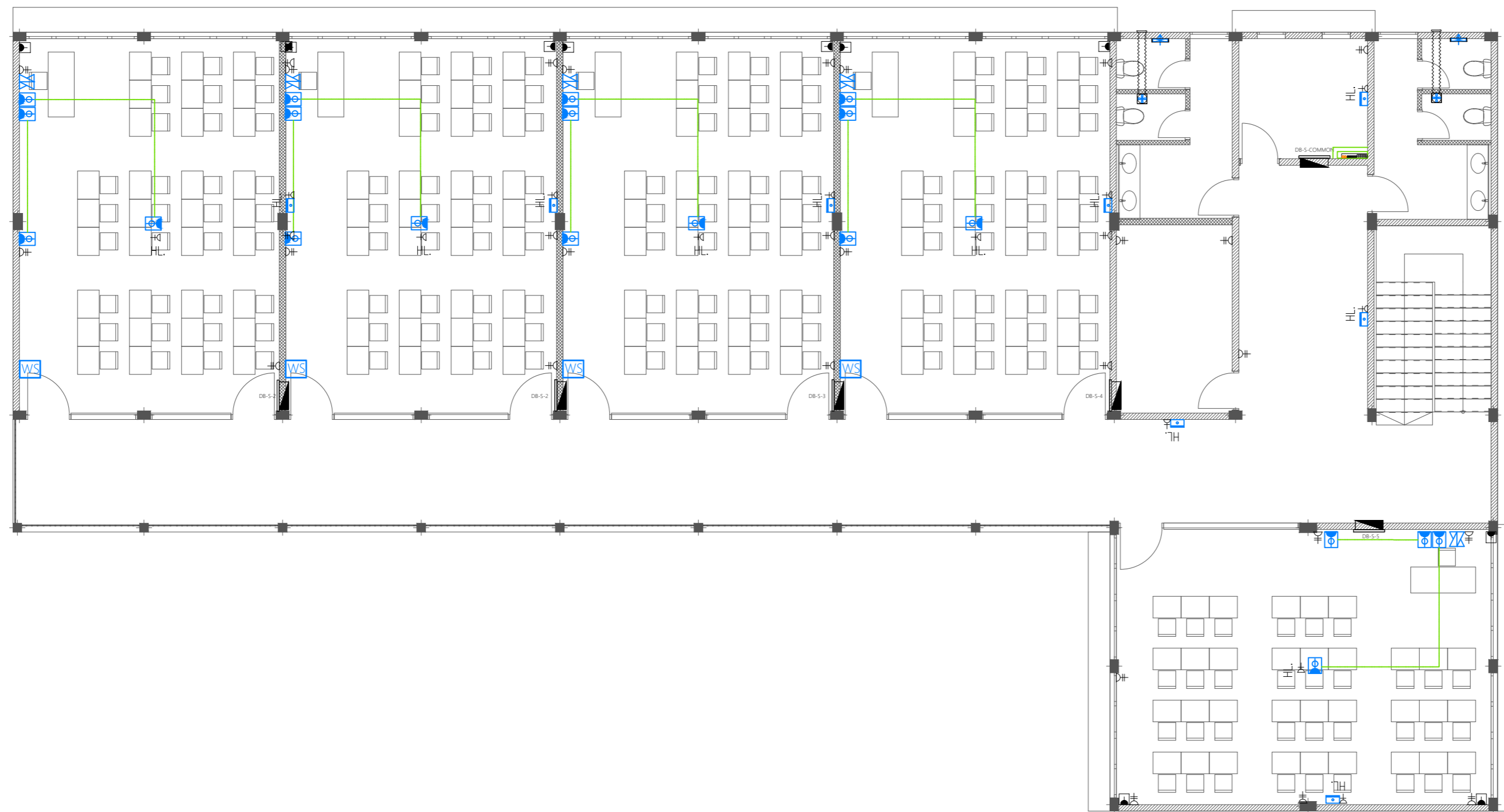
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 02 / 18		

Legend

-  13A Twin Socket
-  13A Power Socket
-  15A Switched Socket @ H.L.
-  Distribution Board
-  HL.
-  Computer Network Outlet
-  Emergency Light
-  WS
-  M
-  Public Address System
-  Computer Network Twin Outlet
-  HDMI Socket

-  Ceiling Mounted Exhaust Fan 90m³/hr
-  Main Incoming Cable For Power PVC Duct Below Ground
-  82Ø PVC Duct For Internet Cables Lead In Below Ground Slab

Notes: -
 - All Twin Sockets At 300mm From F.F.L. Except Stated Otherwise
 - All Computer, Telephone Points At 300mm From F.F.L.
 - All electrical components shall be connected to respective Distribution Box in the same area as the component.
 - All electrical components in common areas, corridors and staircase should be connected to Common Area DB
 - Wall Speaker shall be connected to Public address system of school













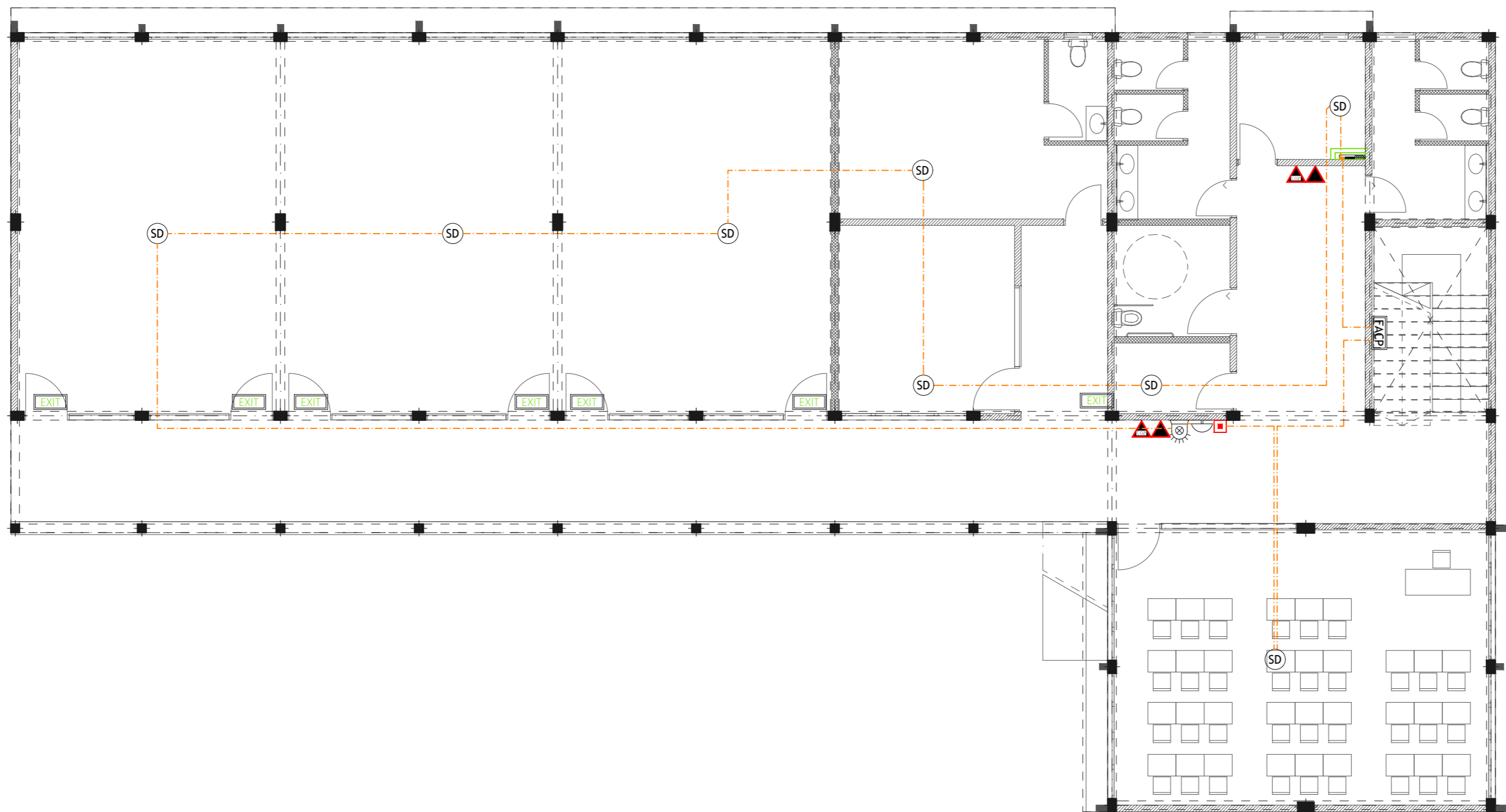
SECOND FLOOR - POWER & AC LAYOUT

SCALE 1:150
 0 0.5 1 2 3 4 5

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 03 / 18		

Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
-  Fire Alarm Control Panel













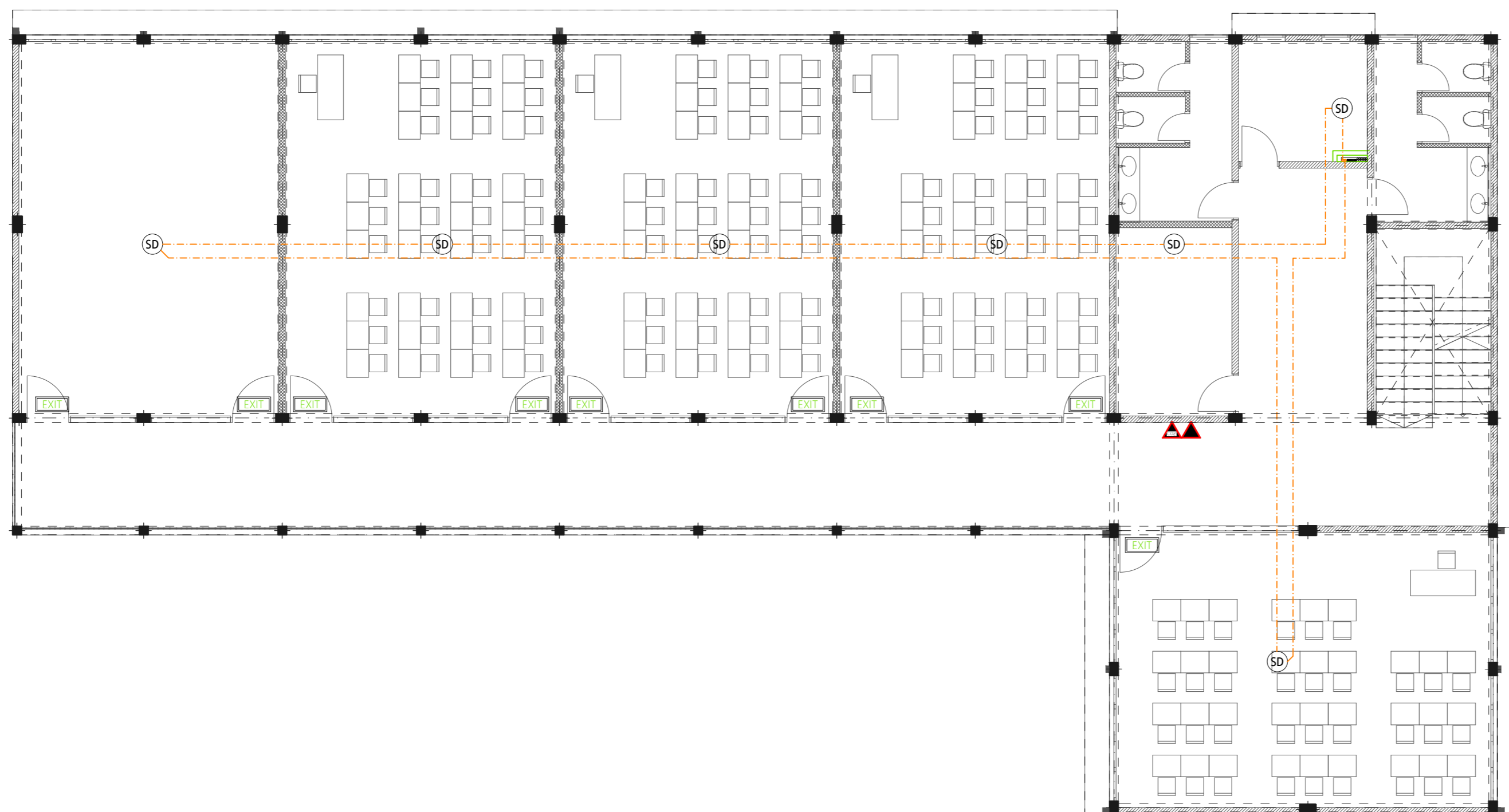
GROUND - FDP LAYOUT

SCALE 1:150
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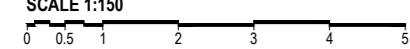
Issue	Date	Description
AMMENDMENTS:		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 04 / 18		

Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
-  Fire Alarm Control Panel













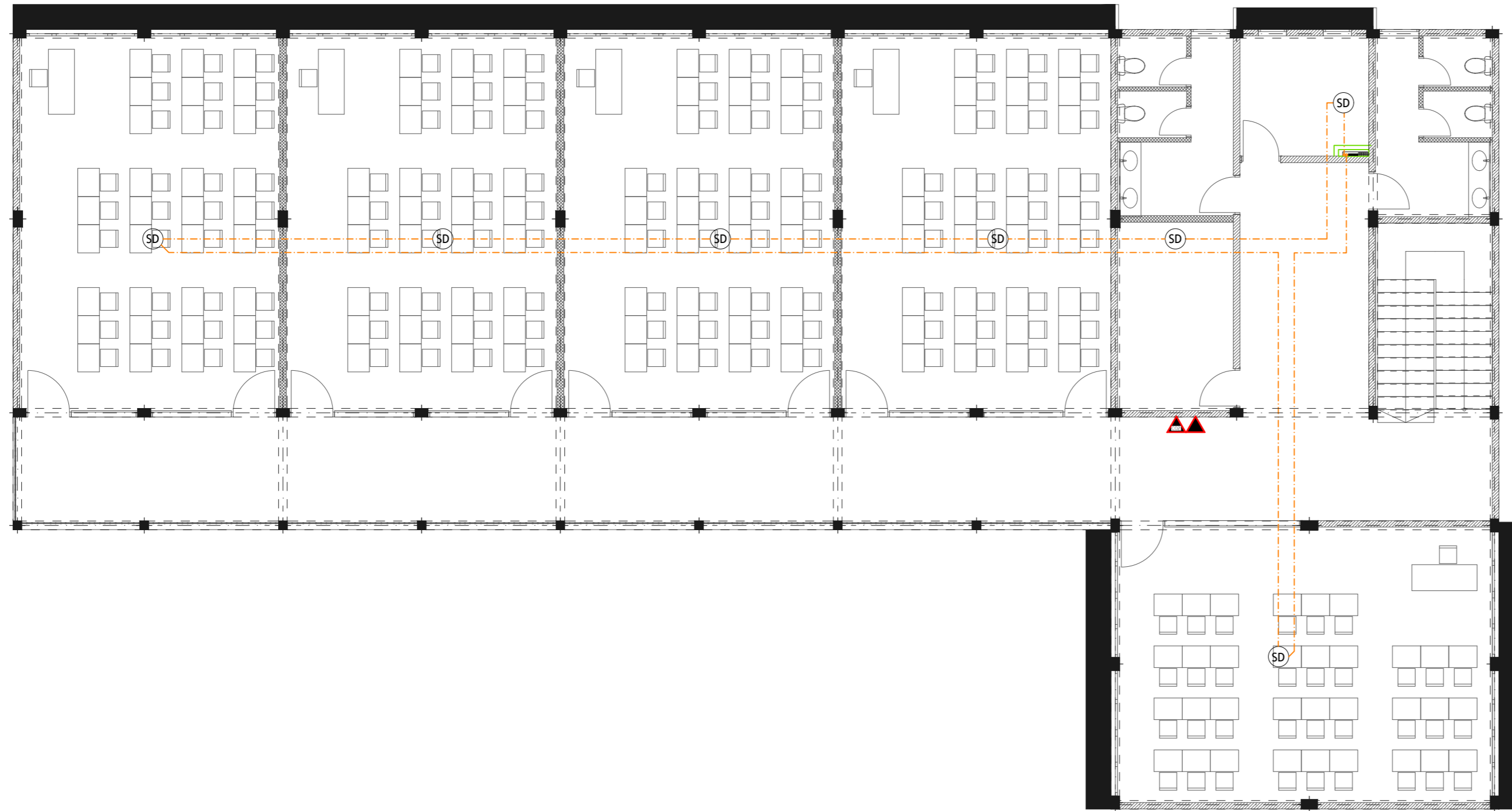
FIRST FLOOR - FDP LAYOUT

SCALE 1:150



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 05 / 18		

Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
-  Fire Alarm Control Panel










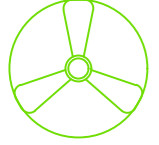


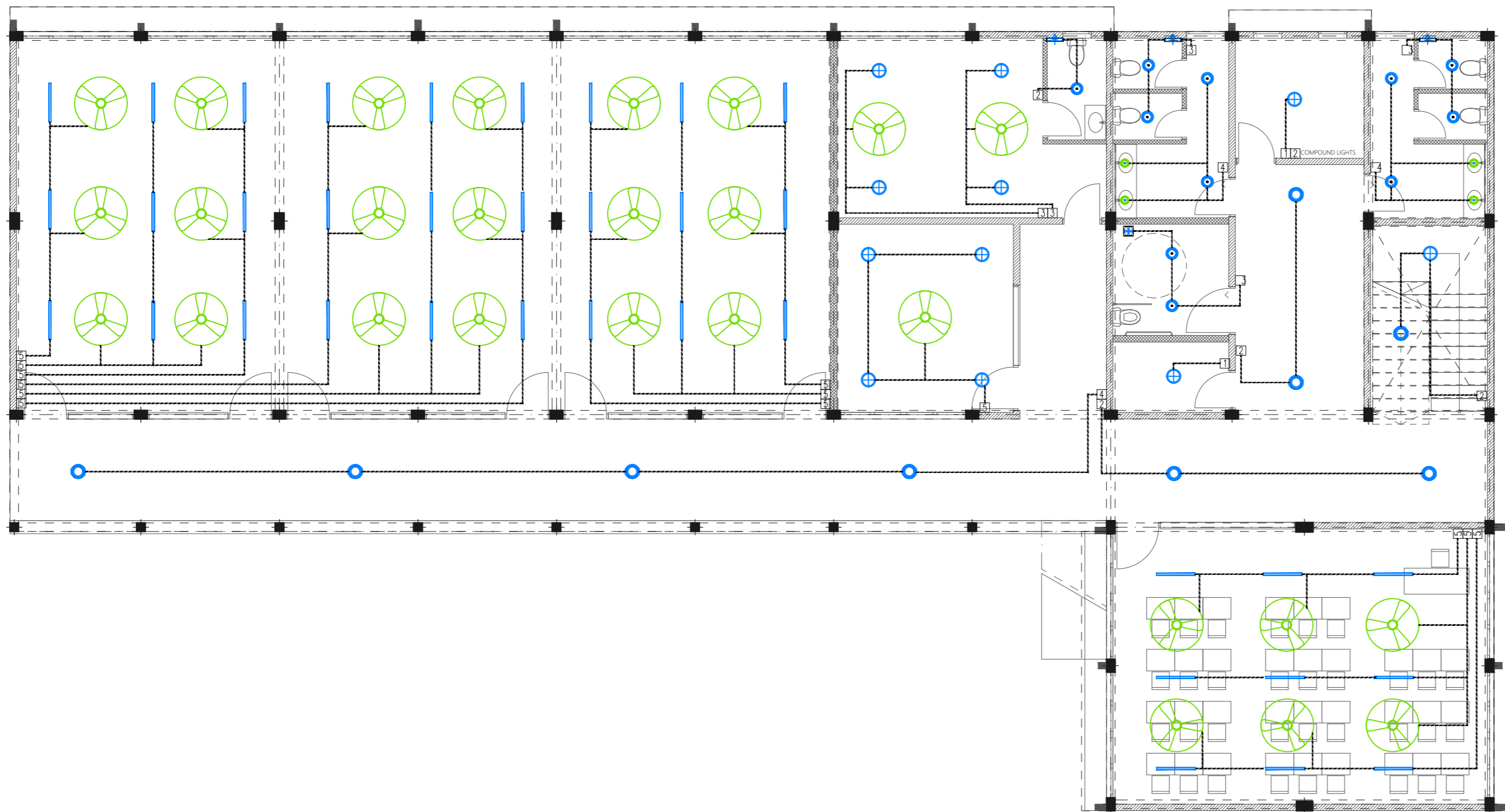
SECOND FLOOR - FDP LAYOUT

SCALE 1:150



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 06 / 18		

Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  3 Ft Led Tube Light
-  100W, HPS, Wall Mounted Light, IP 65
-  Ceiling Recessed Spot Light (3W)
-  Light Switch (1 Gang - 5 Gang)
-  Ceiling Fan Switch With Controller
-  42" To 48" Ceiling Fan













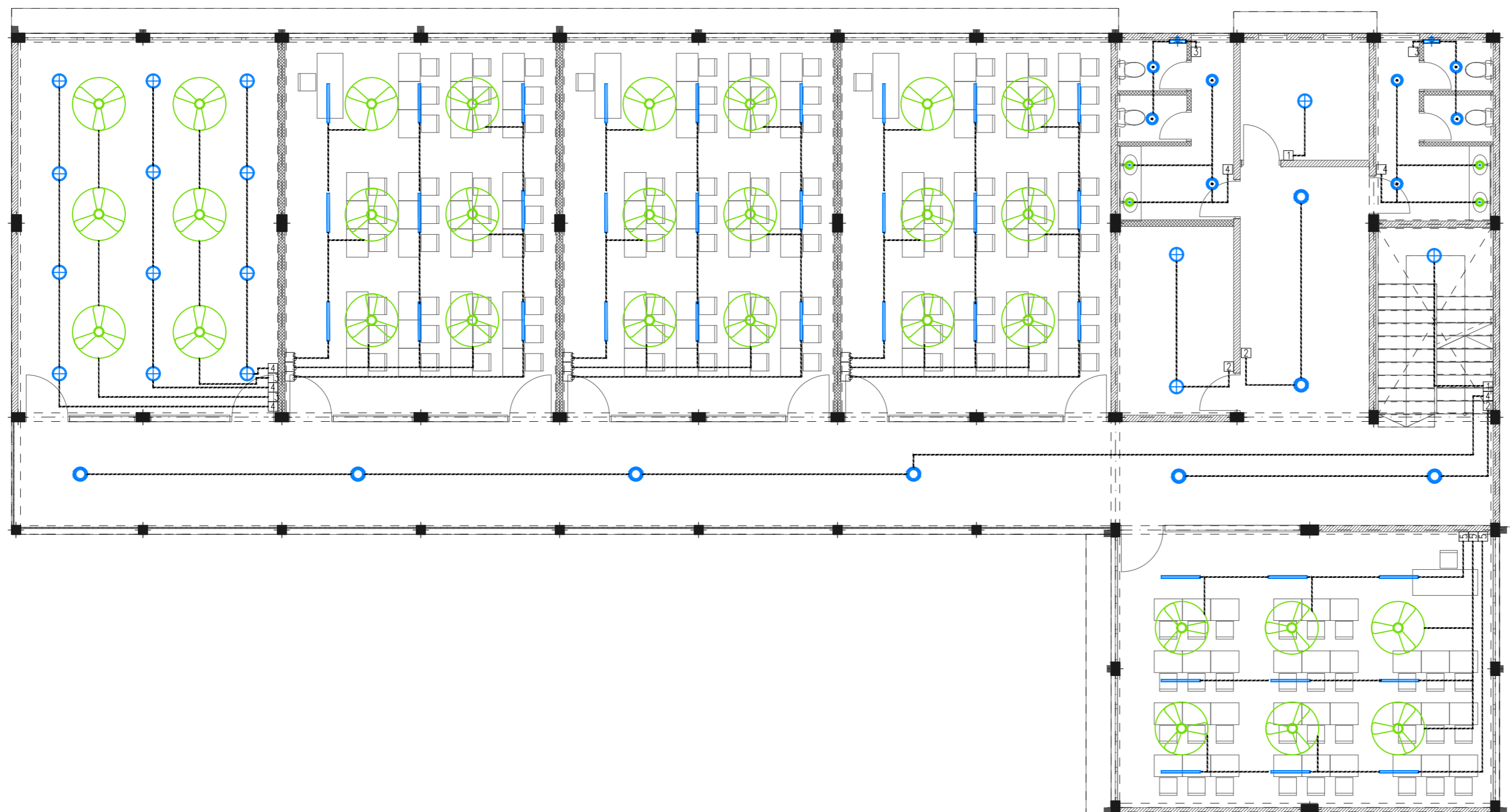
GROUND FLOOR - LIGHTING LAYOUT

SCALE 1:150



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 07 / 18		

Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  3 Ft Led Tube Light
-  100W, HPS, Wall Mounted Light, IP 65
-  Ceiling Recessed Spot Light (3W)
-  Light Switch (1 Gang - 5 Gang)
-  Ceiling Fan Switch With Controller
-  42" To 48" Ceiling Fan













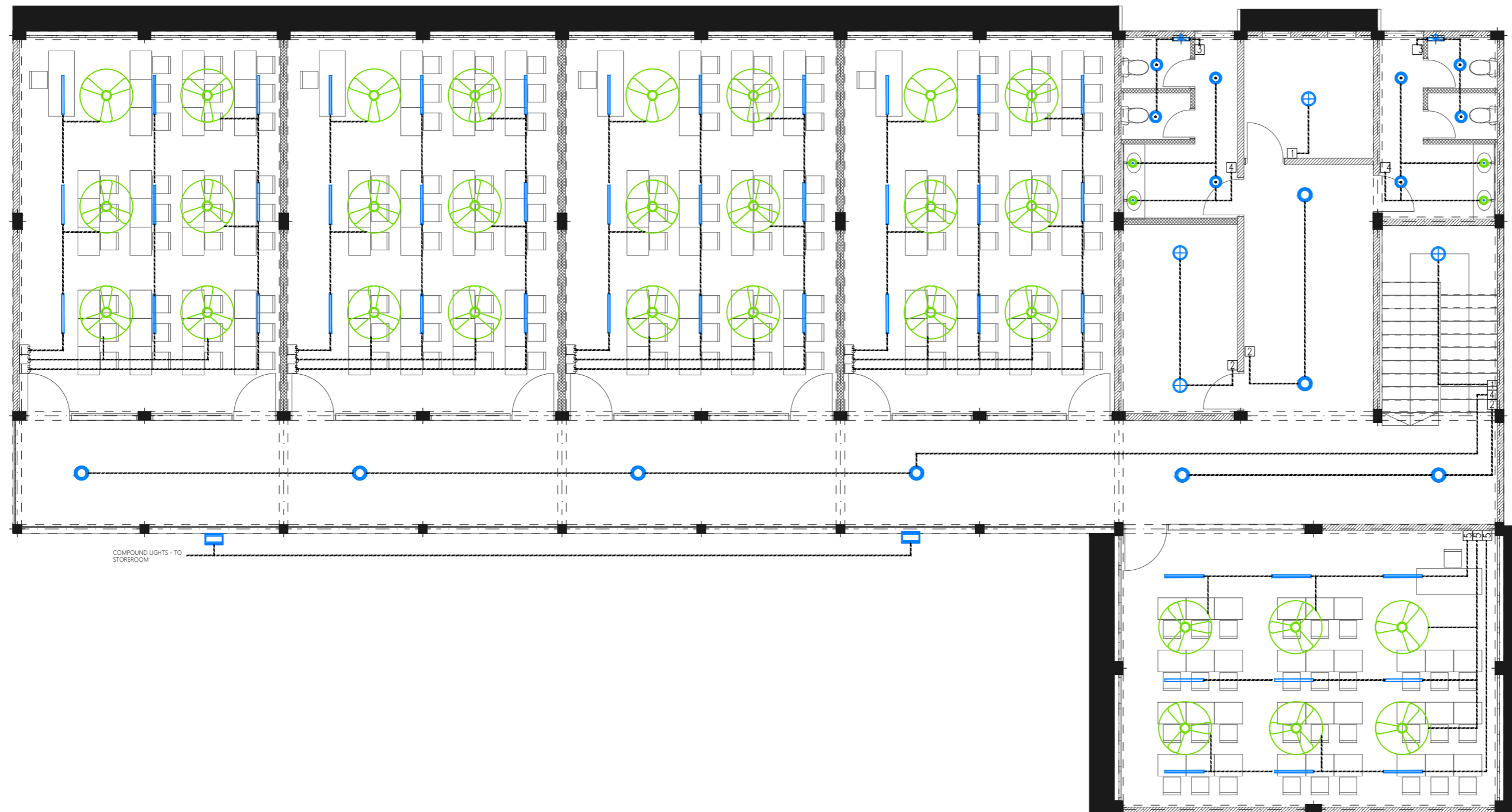
FIRST FLOOR - LIGHTING LAYOUT

SCALE 1:150



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 : 5 08 / 18		

Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  3 Ft Led Tube Light
-  100W, HPS, Wall Mounted Light, IP 65
-  Ceiling Recessed Spot Light (3W)
-  Light Switch (1 Gang - 5 Gang)
-  Ceiling Fan Switch With Controller
-  42" To 48" Ceiling Fan
















SECOND FLOOR - LIGHTING LAYOUT

SCALE 1:150


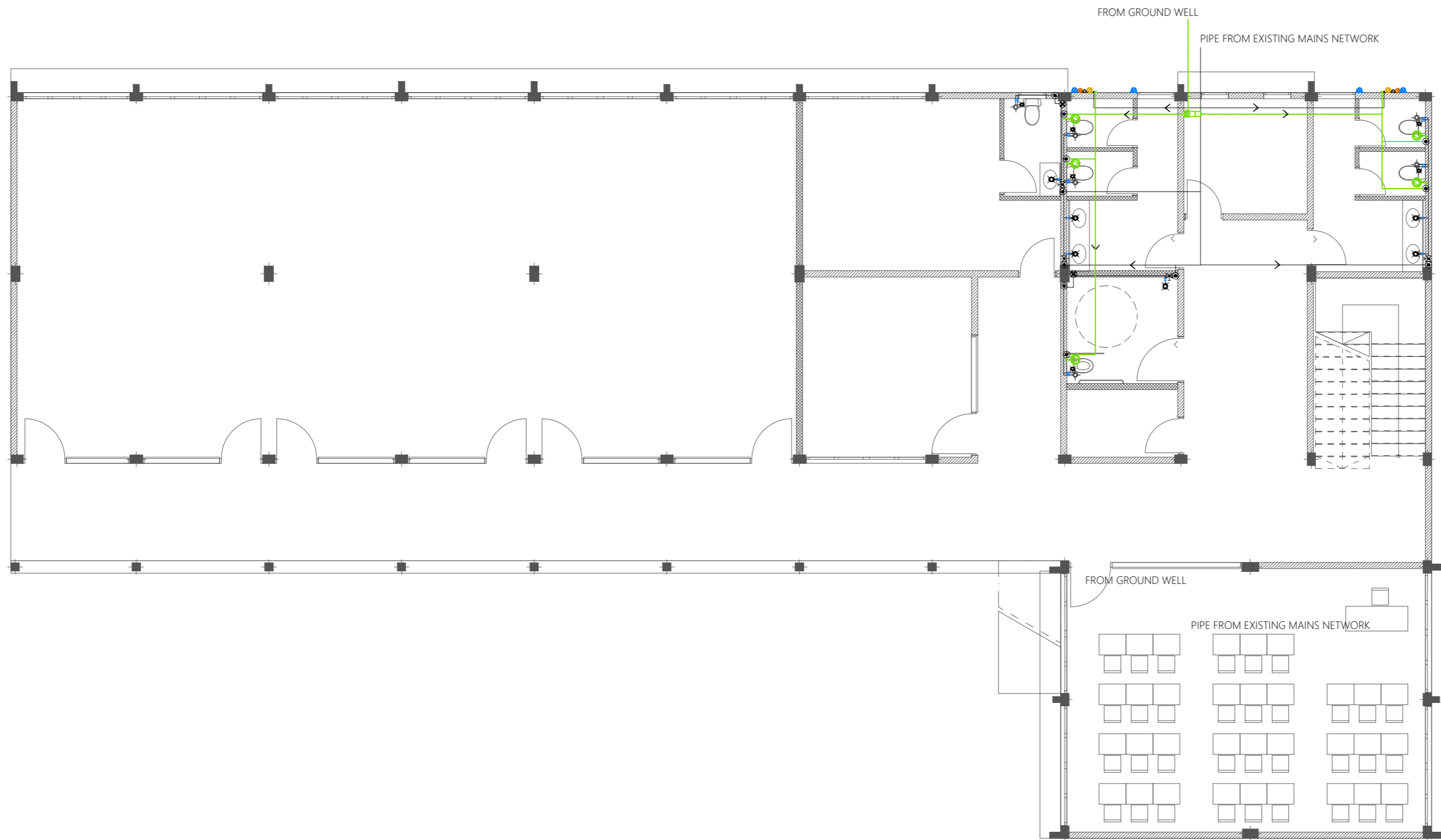
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT K. HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 09 / 18		

Legend

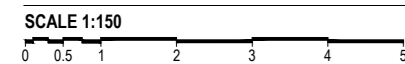
-  16Ø Cold Water Supply To Basin Faucet
-  16Ø Cold Water Supply To Bidet Shower
-  16Ø Cold Water Supply To Cistern
-  Gate Valve
-  Rise In Wall
-  Drop In Wall
-  Angle Valve with cap for Ground Water Supply
-  25Ø Cold Water Supply Pipes Running Underground
-  20Ø Cold Water Supply Pipes Running In Wall
-  20Ø Cold Water Supply Pipes Running Above False Ceiling
-  20Ø Cold Water Supply Pipes Running Underground
-  25Ø Ground Water Supply Pipes
-  Well Water Pump

Notes: -

- All Cold Water Pipes Should Be PVC
- SII Hot Water Pipes Should Be PPR
















GROUND FLOOR - PLUMBING LAYOUT



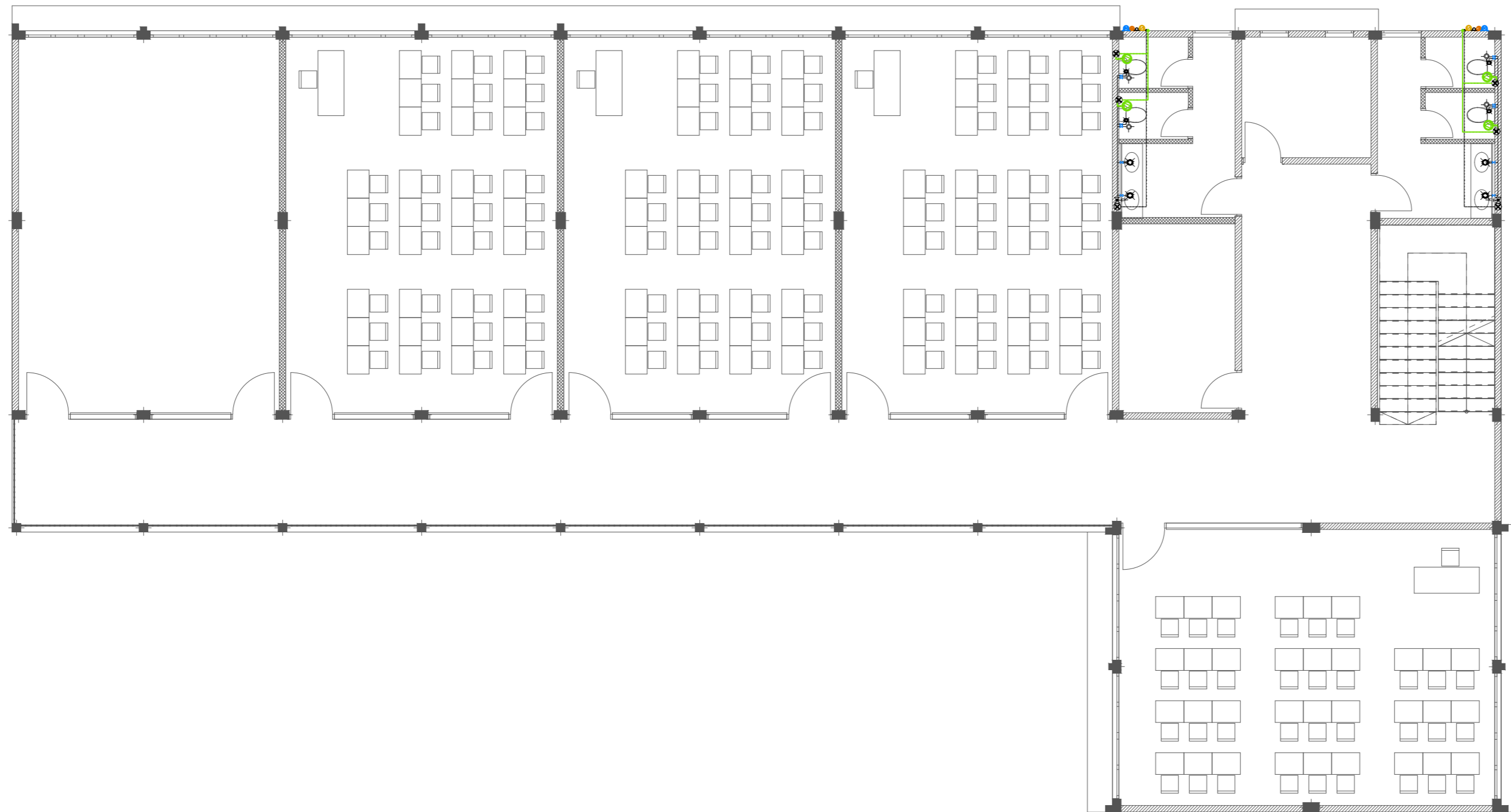
Issue	Date	Description
AMMENDMENTS.		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALÉ, REPUBLIC OF MALDIVES		
PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 10 / 18		

Legend


-  16Ø Cold Water Supply To Basin Faucet
-  16Ø Cold Water Supply To Bidet Shower
-  16Ø Cold Water Supply To Cistern
-  16Ø Cold Water Supply To Sink Tap
-  Gate Valve
-  Rise Through Slab
-  Drop In Wall
-  Angle Valve with cap for Ground Water Supply
-  25Ø Cold Water Supply Pipes Running Underground
-  20Ø Cold Water Supply Pipes Running In Wall
-  20Ø Cold Water Supply Pipes Running Above False Ceiling
-  20Ø Cold Water Supply Pipes Running Below Slab
-  25Ø Ground Water Supply Pipes

Notes: -

- All Cold Water Pipes Should Be PVC
- SII Hot Water Pipes Should Be PPR















FIRST FLOOR - PLUMBING LAYOUT

SCALE 1:150


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 11 / 18		

Legend


-  16Ø Cold Water Supply To Basin Faucet
-  16Ø Cold Water Supply To Bidet Shower
-  16Ø Cold Water Supply To Cistern
-  Gate Valve
-  Rise In Wall
-  Drop In Wall
-  Angle Valve with cap for Ground Water Supply
-  25Ø Cold Water Supply Pipes Running Underground
-  20Ø Cold Water Supply Pipes Running In Wall
-  20Ø Cold Water Supply Pipes Running Above False Ceiling
-  20Ø Cold Water Supply Pipes Running Underground
-  25Ø Ground Water Supply Pipes

Notes: -

- All Cold Water Pipes Should Be PVC
- SII Hot Water Pipes Should Be PPR








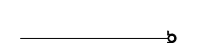






SECOND FLOOR - PLUMBING LAYOUT

SCALE 1:150


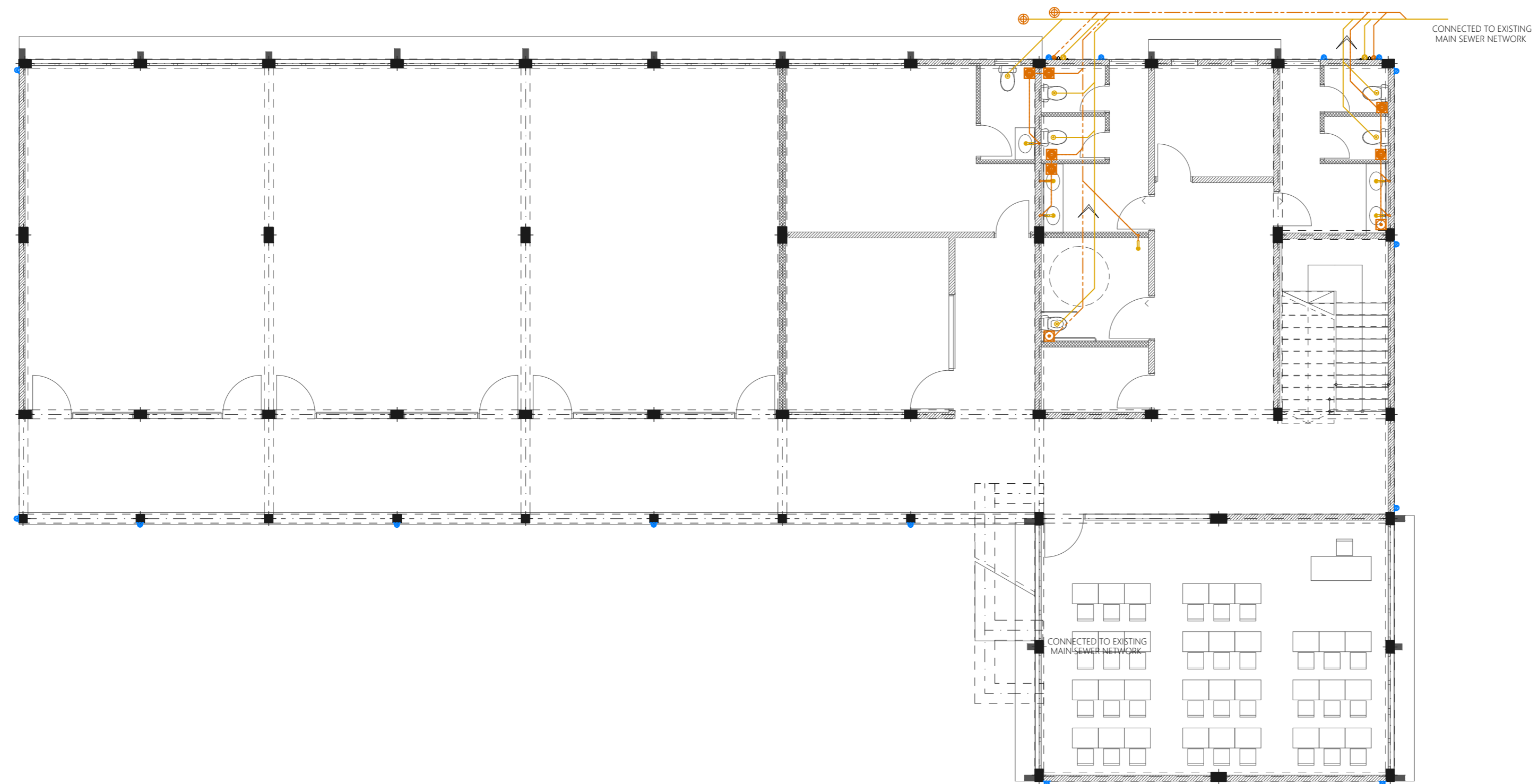
Issue	Date	Description
AMMENDMENTS:		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT K HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : 5 12 / 18		

Legend


-  Floor Drain
-  Floor Gully
-  110Ø Soil Pipe (uPVC Pipe)
-  110Ø Soil Vent Pipe (uPVC Pipe)
-  82Ø Waste Pipe (uPVC Pipe)
-  82Ø Waste Vent Pipe (uPVC Pipe)
-  40Ø Waste Pipe (uPVC Pipe)
-  63Ø Manhole Vent Pipe (uPVC Pipe)
-  110Ø Rain Water Pipes (uPVC Pipe)
-  110Ø Rainwater Outlet Perforated Cowl
-  Gully Trap
-  Bottle Trap

Notes: -

- All Drainage Pipes Should Have At A Slope Of 1/150
- All Floor Drains Should Have 'P' Traps
















GROUND FLOOR - DRAINAGE LAYOUT

SCALE 1:150


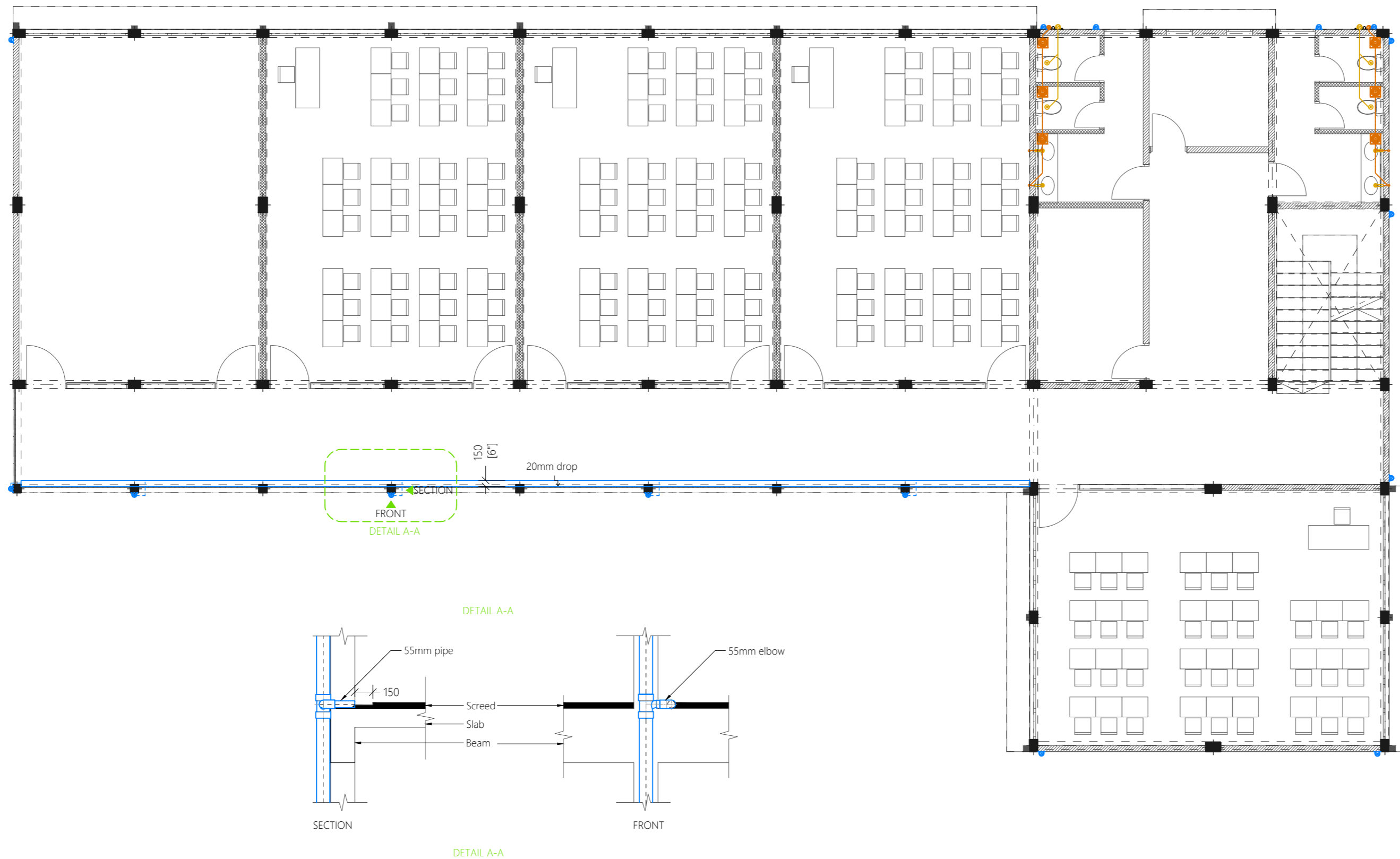
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AMMENDMENTS:		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE', REPUBLIC OF MALDIVES		
PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT MINISTRY OF EDUCATION		
ARCHITECT :		
ENGINEER :		
DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 13 / 18		

Legend

-  Floor Drain
-  Floor Gully
-  110Ø Soil Pipe (uPVC Pipe)
-  110Ø Soil Vent Pipe (uPVC Pipe)
-  82Ø Waste Pipe (uPVC Pipe)
-  82Ø Waste Vent Pipe (uPVC Pipe)
-  40Ø Waste Pipe (uPVC Pipe)
-  63Ø Manhole Vent Pipe (uPVC Pipe)
-  110Ø Rain Water Pipes (uPVC Pipe)
-  Clean Out Point
-  Bottle Trap
-  Manhole
-  Gully Trap

Notes: -

- All Drainage Pipes Should Have At A Slope Of 1/150
- All Floor Drains Should Have 'P' Traps
















FIRST FLOOR - DRAINAGE LAYOUT

SCALE 1:150
0 0.5 1 2 3 4 5

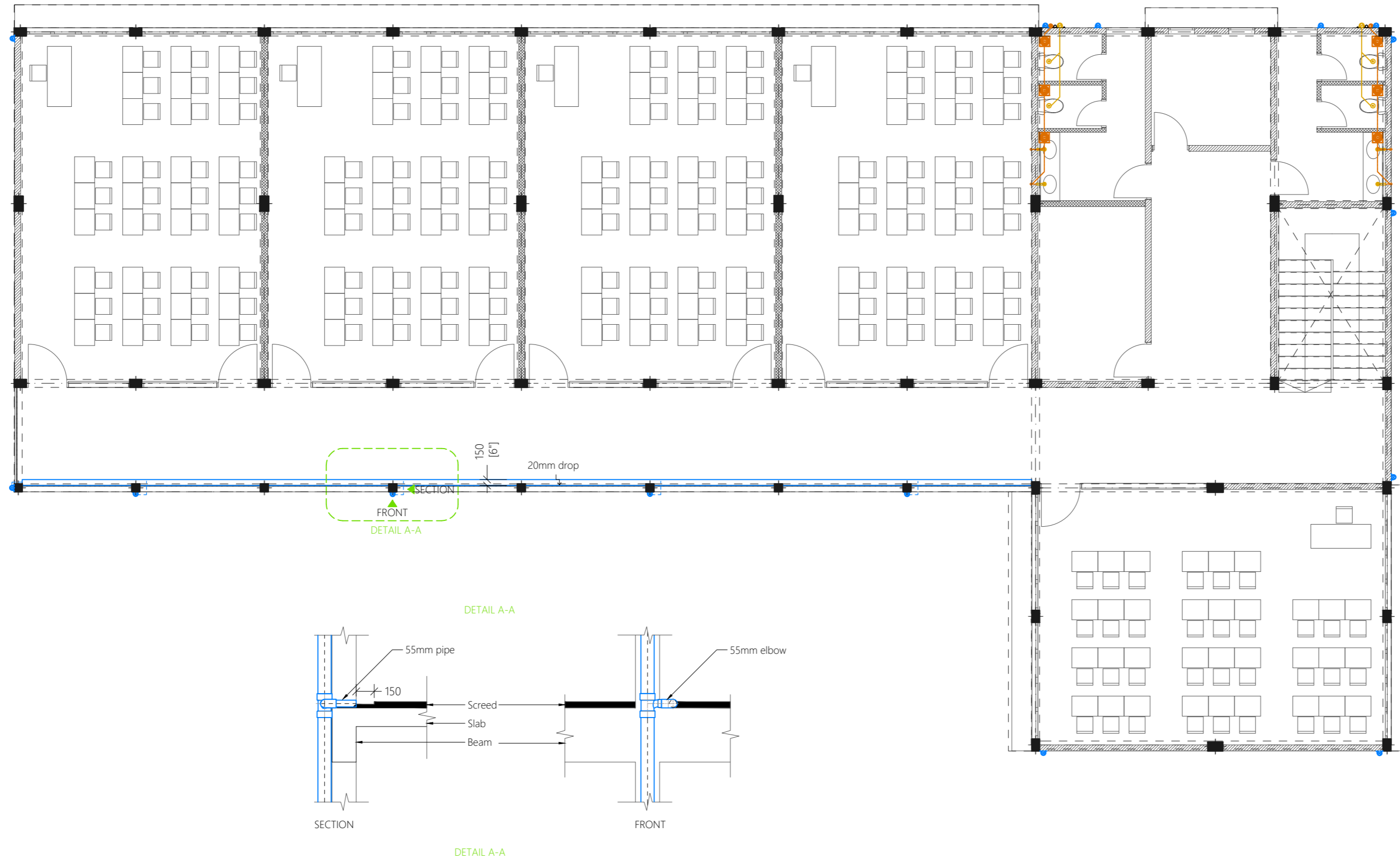
Issue	Date	Description
AMMENDMENTS:		
PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION, MALE, REPUBLIC OF MALDIVES		
PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
PROJECT REFERENCE		
CLIENT: MINISTRY OF EDUCATION		
ARCHITECT:		
ENGINEER:		
DRAWN:		
CHECKED:		
SCALE: AS GIVEN		
DATE: 07.09.2021		
DWG NO: S 14 / 18		

Legend

-  Floor Drain
-  Floor Gully
-  110Ø Soil Pipe (uPVC Pipe)
-  110Ø Soil Vent Pipe (uPVC Pipe)
-  82Ø Waste Pipe (uPVC Pipe)
-  82Ø Waste Vent Pipe (uPVC Pipe)
-  40Ø Waste Pipe (uPVC Pipe)
-  63Ø Manhole Vent Pipe (uPVC Pipe)
-  110Ø Rain Water Pipes (uPVC Pipe)
-  Clean Out Point
-  Bottle Trap
-  Manhole
-  Gully Trap

Notes: -

- All Drainage Pipes Should Have At A Slope Of 1/150
- All Floor Drains Should Have 'P' Traps
















SECOND FLOOR - DRAINAGE LAYOUT

SCALE 1:150
0 0.5 1 2 3 4 5

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 / 18		

Legend

-  Floor Drain
-  Floor Gully
-  110Ø Soil Pipe (uPVC Pipe)
-  110Ø Soil Vent Pipe (uPVC Pipe)
-  82Ø Waste Pipe (uPVC Pipe)
-  82Ø Waste Vent Pipe (uPVC Pipe)
-  40Ø Waste Pipe (uPVC Pipe)
-  63Ø Manhole Vent Pipe (uPVC Pipe)
-  110Ø Rain Water Pipes (uPVC Pipe)
-  Clean Out Point
-  Bottle Trap
-  Manhole
-  Gully Trap

Notes: -

- All Drainage Pipes Should Have At A Slope Of 1/150
- All Floor Drains Should Have 'P' Traps

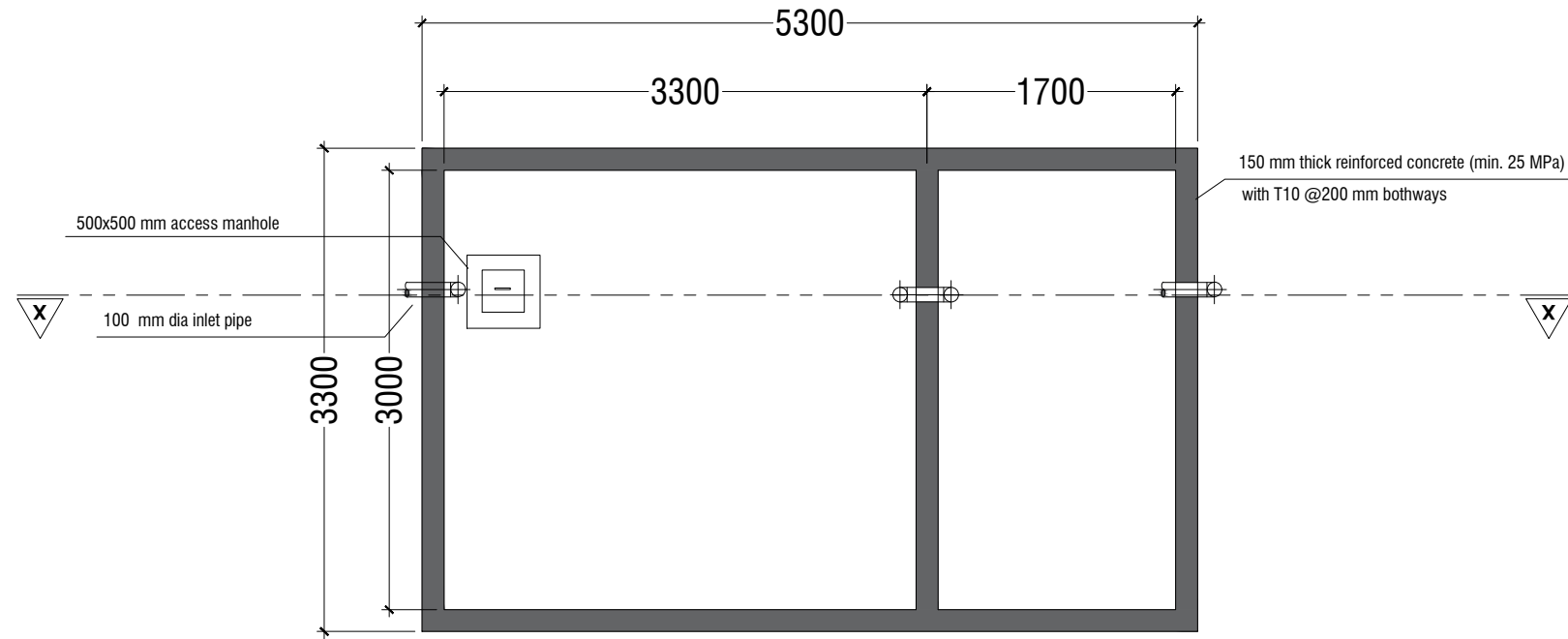


ROOF - DRAINAGE LAYOUT

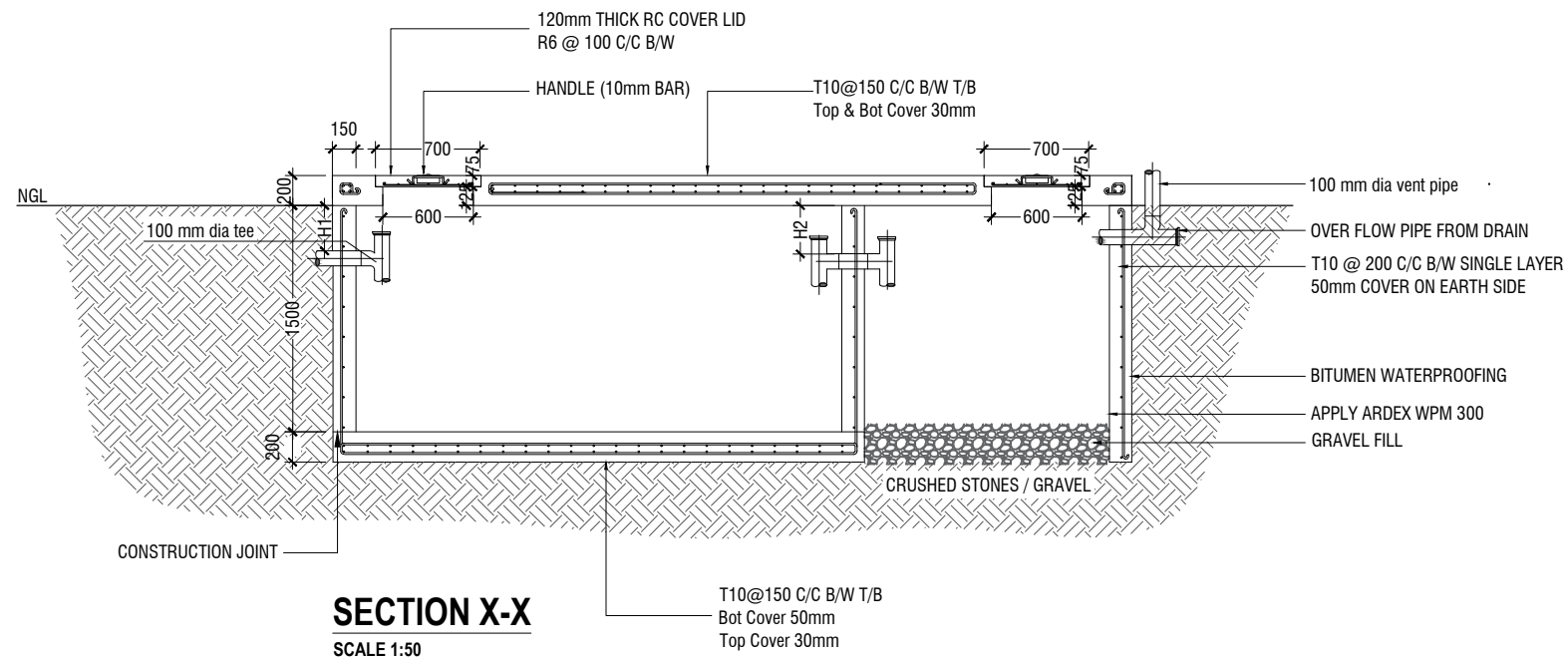
SCALE 1:150



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 16 / 18		

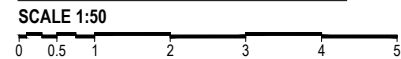


PLAN
SCALE 1:50



SECTION X-X
SCALE 1:50

SEPTIC TANK DETAIL



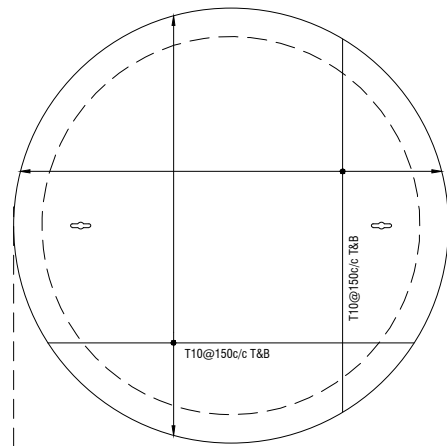
NOTE:

H1 < H2

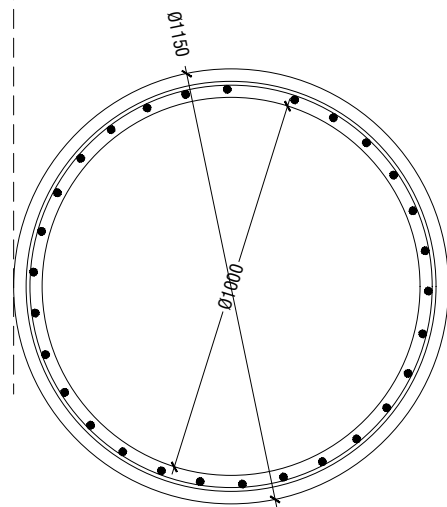
- TOP AND BOTTOM OF SEPTIC TANK SHOULD BE OF 200mm THICK
- BITUMINOUS WATERPROOFING TO BE APPLIED BELOW GROUND SURFACE
- REINFORCEMENT TO HAVE A COVER OF 50mm FROM EARTH

Issue	Date	Description
AMMENDMENTS.		
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CLIENT MINISTRY OF EDUCATION		
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CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 17/ 18		

WATER TANK WALL TOP & BOTTOM SLAB

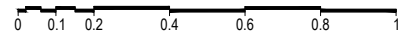


WATER TANK WALL REINF.

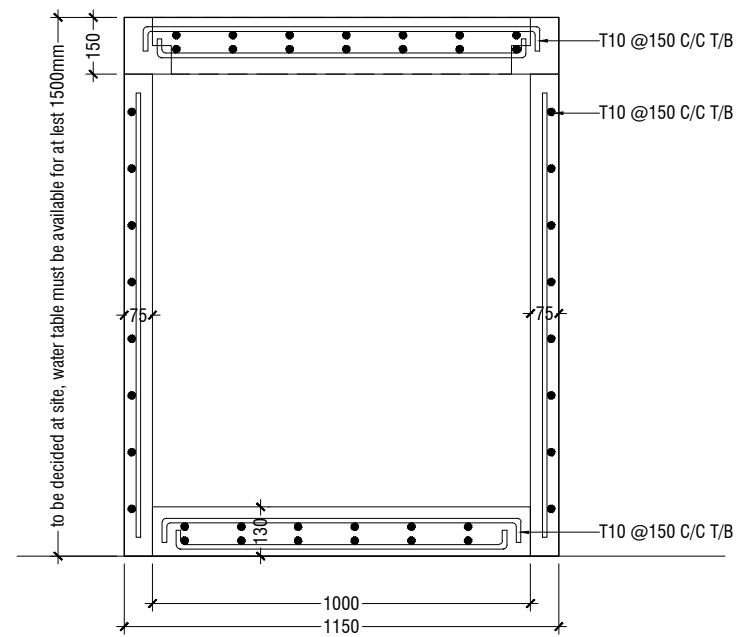


WATER TANK DETAILS

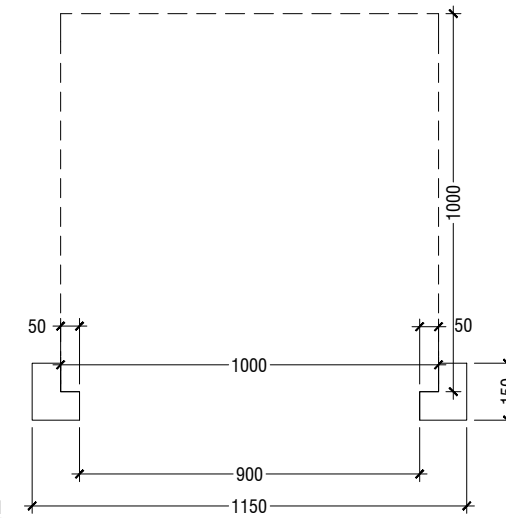
SCALE 1:20



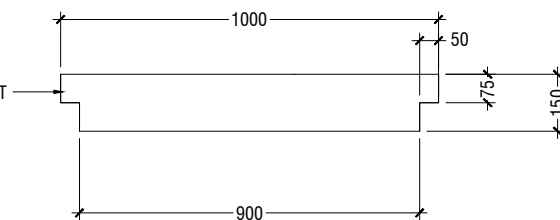
WATER TANK SECTION



ELEVATION

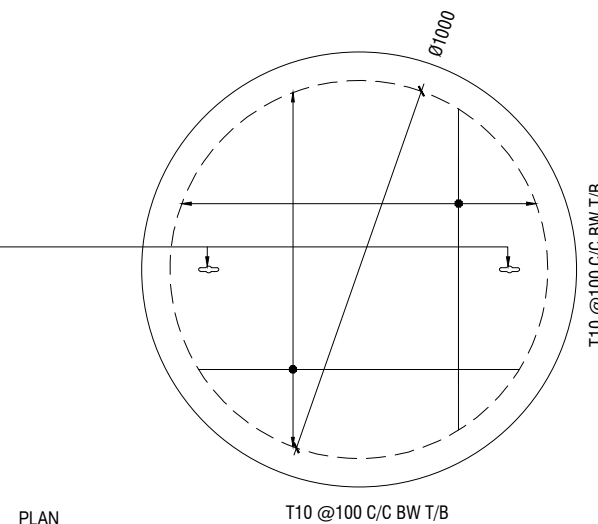


SIKA SEALANT



SECTION

KEYHOLES (THE KEYHOLES SHALL BE COVERED FROM A RUBBER SEALER ON TOP OF IT)



PLAN

NOTE:

- 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

WATER TANK LID DETAILS

SCALE 1:20



Issue	Date	Description
AMMENDMENTS.		
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PROJECT K.HIMMAFUSHI SCHOOL MULTIPURPOSE HALL & 4 CLASS ROOMS		
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DRAWN :		
CHECKED :		
SCALE : AS GIVEN		
DATE : 07.09.2021		
DWG NO : S 18/18		