

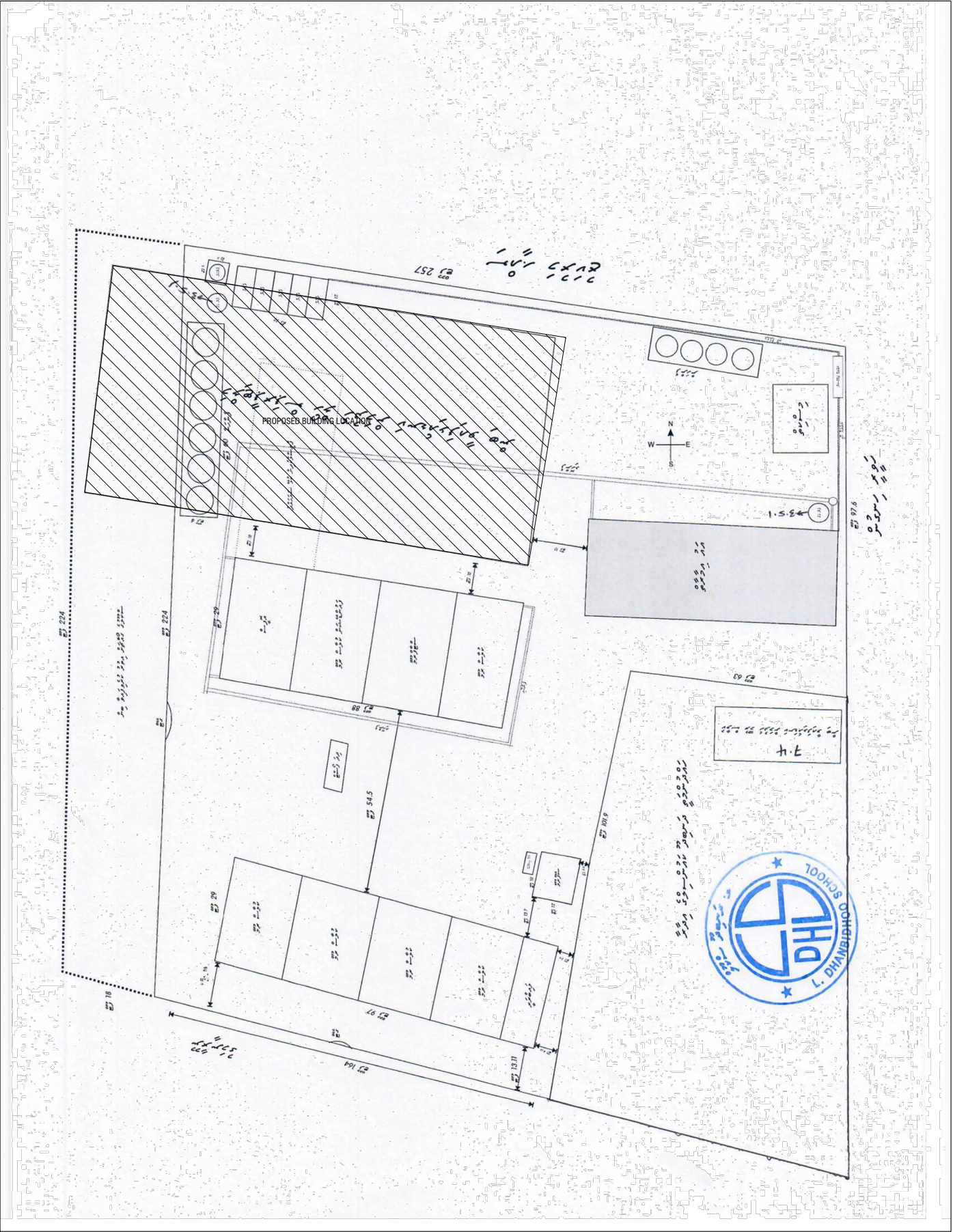
Gdh Dhanbidhoo  
School Multipurpose Hall  
& 4 Classroom  
Architectural & Structural Detail Drawings

Ministry Of Education

Date: .....  
Project Number: #Project ID



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Location Plan  
1:401.49

NOTE:

PROPOSED BUILDING LOCATION

EXISTING BUILDINGS TO BE DEMOLISHED AT THE PROPOSED SITE LOCATION, AS PER THE SCHOOL (TO BE CONFIRMED ON SITE)

Site Plan  
1:500



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :

L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF:

SCALE :

AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

CHECKED :

DATE :

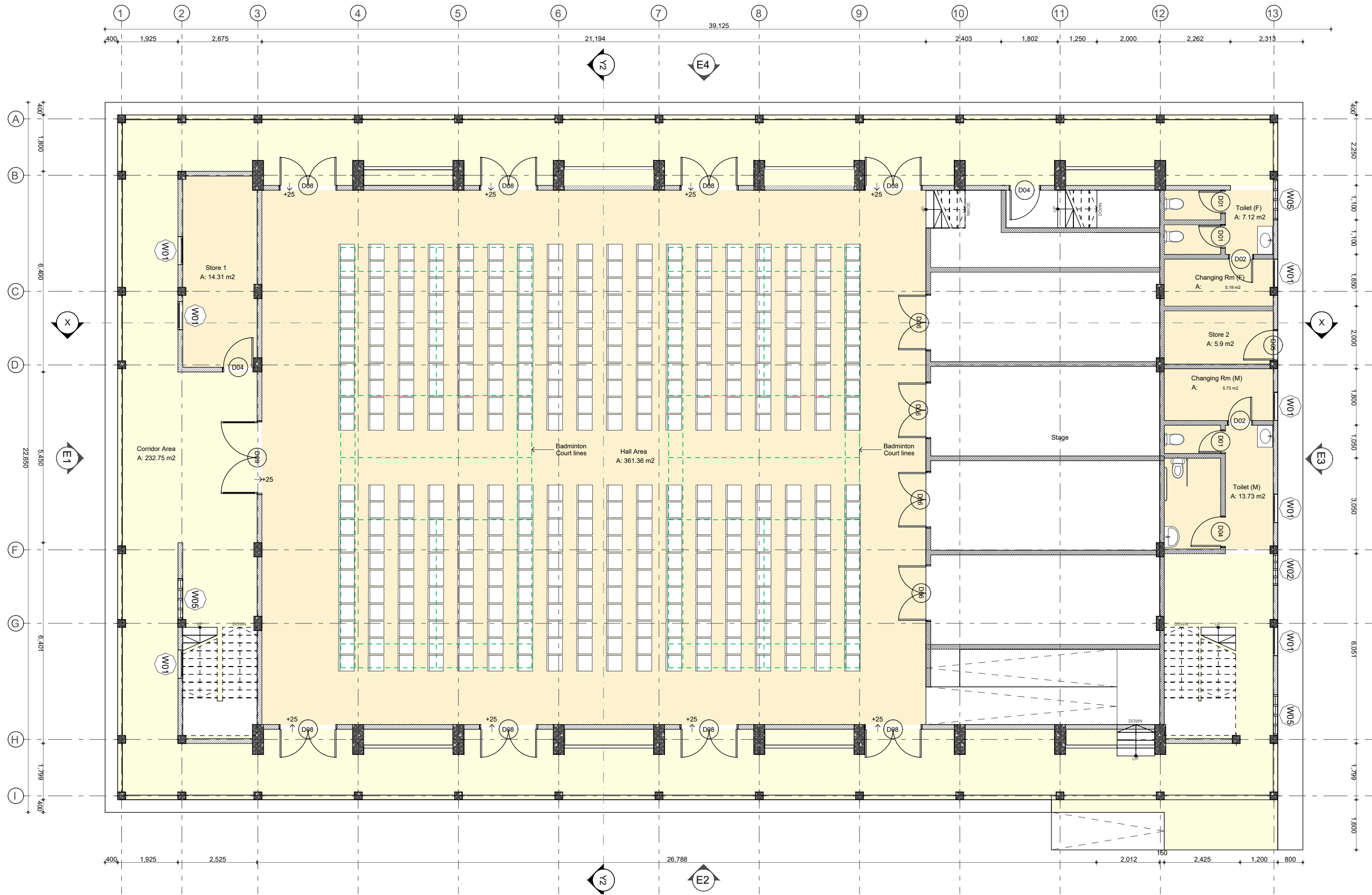
July 31, 2023

AMMENDMENTS

Issue	Date	Description

DWG NO : A01

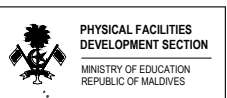
-57



Wall Legend	
2D Plan Preview	Description
	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
	1200mm high 150mm thick concrete balcony wall as per structural detail
	350mm high 100mm thick exterior planter box solid block masonry wall with 25mm plaster on both sides finished with selected paint

Zone schedule							
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes	Ceiling Level	Ceiling Finishes	Wall Finishes
Ground Floor							
	Changing Rm (F)	5.19	+325	300 X 300mm Homogenous non-slip tiles over 50mm screed	+3450	Gypsum board with timber frames	16mm plaster, applied with ground smooth finished with selected paint
	Changing Rm (M)	5.73	+325	300 X 300mm Homogenous non-slip tiles over 50mm screed	+3450	Gypsum board with timber frames	16mm plaster, applied with ground smooth finished with selected paint
	Corridor Area	232.75	+325	600 X 600mm Homogenous non-slip tiles over 50mm screed	+3450	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected	16mm plaster, applied with ground smooth finished with selected paint
	Hall Area	361.36	+350	Self leveling cement floor screed with epoxy floor paint finish	+6962	Gypsum board with timber frames	16mm plaster, applied with ground smooth finished with selected paint
	Store 1	14.31	+350	600X600mm homogenous non-skid tiles on 50mm screed	+3650	Exposed slab soffit to be finished with ground smooth finish in selected paint	16mm plaster, applied with ground smooth finished with selected paint
	Store 2	5.90	+350	600X600mm homogenous non-skid tiles on 50mm screed	+3650	Exposed slab soffit to be finished with ground smooth finish in selected paint	16mm plaster, applied with ground smooth finished with selected paint
	Toilet (F)	7.12	+300	300 X 300mm Homogenous non-slip tiles over 50mm screed	+3450	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint	300mm X 600mm Homogenous wall tiles
	Toilet (M)	13.73	+300	300 X 300mm Homogenous non-slip tiles over 50mm screed	+3450	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint	300mm X 600mm Homogenous wall tiles

Ground Floor Plan  
1:100



PROJECT :  
**L.DHANBIDIHO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

CHECKED :

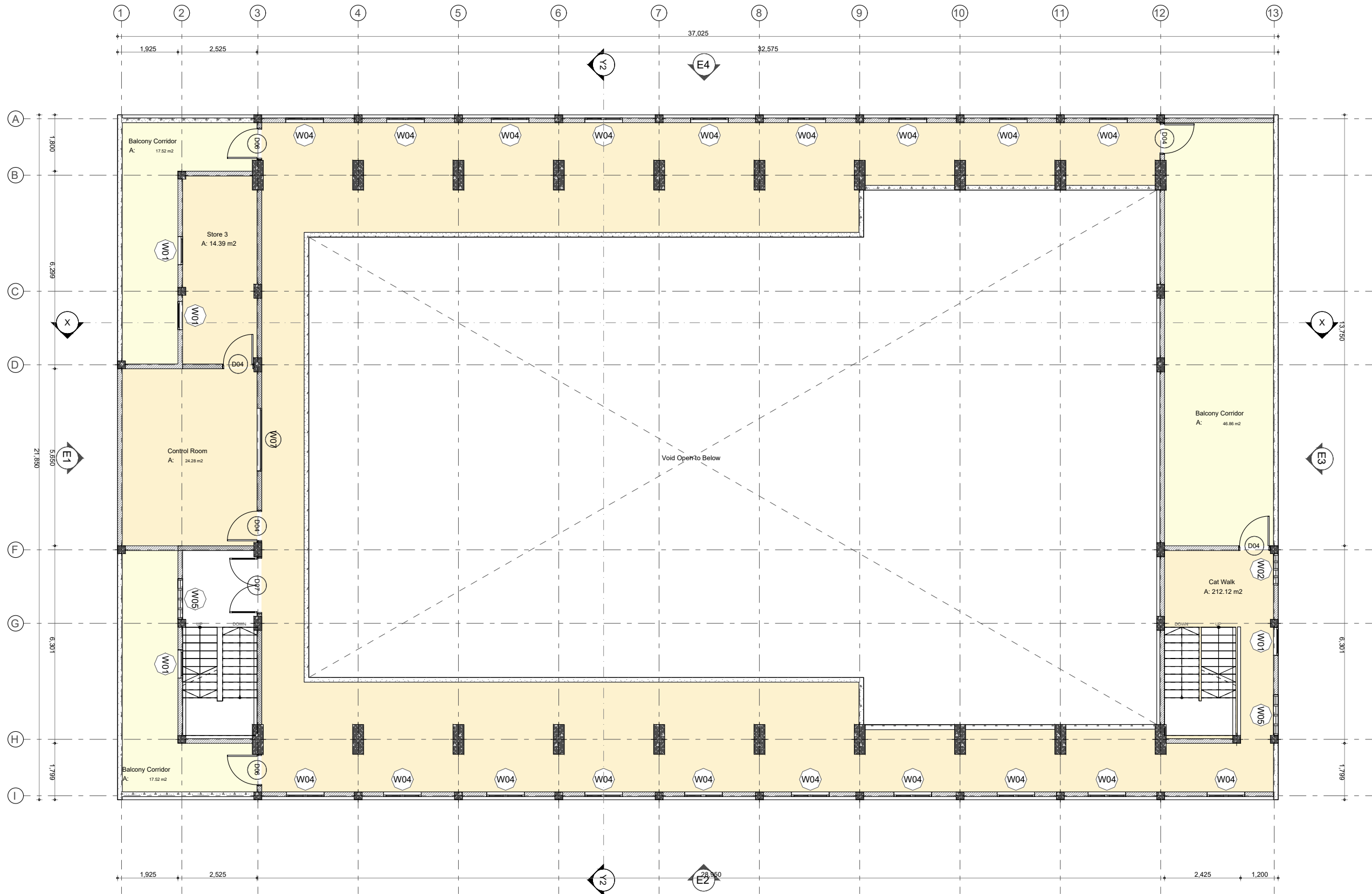
DATE : July 31, 2023

AMMENDMENTS

Issue	Date	Description

DWG NO : A02 -57





First Floor Plan  
1:100

Wall Legend	
2D Plan Preview	Description
	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
	1200mm high 150mm thick concrete balcony wall as per structural detail
	350mm high 100mm thick exterior planter box solid block masonry wall with 25mm plaster on both sides finished with selected paint

IES-03 Zone schedule copy 2							
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes	Ceiling Level	Ceiling Finishes	Wall Finishes
First Floor							
	Balcony Corridor	81.90	+3800	600 X 600mm Homogenous non-slip tiles over 50mm screed	+6962	Gypsum board with timber frames	16mm plaster, applied with ground smooth finished with selected paint
	Cat Walk	212.12	+3825	300 X 300mm Homogenous non-slip tiles over 50mm screed	+6962	Gypsum board with timber frames	16mm plaster, applied with ground smooth finished with selected paint
	Control Room	24.28	+3850	600X600mm homogenous non-skid tiles on 50mm screed	+6962	Gypsum board with timber frames	16mm plaster, applied with ground smooth finished with selected paint
	Store 3	14.39	+3850	600X600mm homogenous non-skid tiles on 50mm screed	+6962	Gypsum board with timber frames	16mm plaster, applied with ground smooth finished with selected paint



PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description



Second Floor  
1:100

Wall Legend	
2D Plan Preview	Description
	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
	1200mm high 150mm thick concrete balcony wall as per structural detail
	350mm high 100mm thick exterior planter box solid block masonry wall with 25mm plaster on both sides finished with selected paint

IES-03 Zone schedule copy 1									
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes		Ceiling Level	Ceiling Finishes		Wall Finishes
Second Floor									
	Balcony Corridor 2	353.74	+7336	600 X 600mm Homogenous non-slip tiles over 50mm screed		+10300	Exposed Roof as per Roof Design Detail		16mm plaster, applied with ground smooth finished with selected paint
	Class 01	53.13	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Class 02	52.84	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Class 03	52.84	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Class 04	54.07	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Class 05	53.78	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Janitor Store 1	3.86	+7361	300 X 300mm Homogenous non-slip tiles over 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Janitor Store 2	3.86	+7361	300 X 300mm Homogenous non-slip tiles over 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Store 4	13.82	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Toilet (F)	10.13	+7311	300 X 300mm Homogenous non-slip tiles over 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		300mm X 600mm Homogenous wall tiles
	Toilet (M)	9.55	+7311	300 X 300mm Homogenous non-slip tiles over 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		300mm X 600mm Homogenous wall tiles



PROJECT :  
**L.DHANBIDIHO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

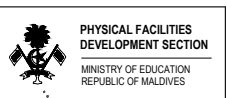
AMMENDMENTS		
Issue	Date	Description



Second Floor  
1:100

Wall Legend	
2D Plan Preview	Description
	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
	1200mm high 150mm thick concrete balcony wall as per structural detail
	350mm high 100mm thick exterior planter box solid block masonry wall with 25mm plaster on both sides finished with selected paint

IES-03 Zone schedule copy 1									
Home Story	Zone Name	Area (sqm)	Floor Level	Floor Finishes		Ceiling Level	Ceiling Finishes		Wall Finishes
Second Floor									
	Balcony Corridor 2	353.74	+7336	600 X 600mm Homogenous non-slip tiles over 50mm screed		+10300	Exposed Roof as per Roof Design Detail		16mm plaster, applied with ground smooth finished with selected paint
	Class 01	53.13	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Class 02	52.84	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Class 03	52.84	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Class 04	54.07	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Class 05	53.78	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Janitor Store 1	3.86	+7361	300 X 300mm Homogenous non-slip tiles over 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Janitor Store 2	3.86	+7361	300 X 300mm Homogenous non-slip tiles over 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Store 4	13.82	+7361	600X600mm homogenous non-skid tiles on 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		16mm plaster, applied with ground smooth finished with selected paint
	Toilet (F)	10.13	+7311	300 X 300mm Homogenous non-slip tiles over 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		300mm X 600mm Homogenous wall tiles
	Toilet (M)	9.55	+7311	300 X 300mm Homogenous non-slip tiles over 50mm screed		+9958	Cementboard ceiling fixed to timber frames, with ground smooth finish in selected paint		300mm X 600mm Homogenous wall tiles



PROJECT :  
**L.DHANBIDIHO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

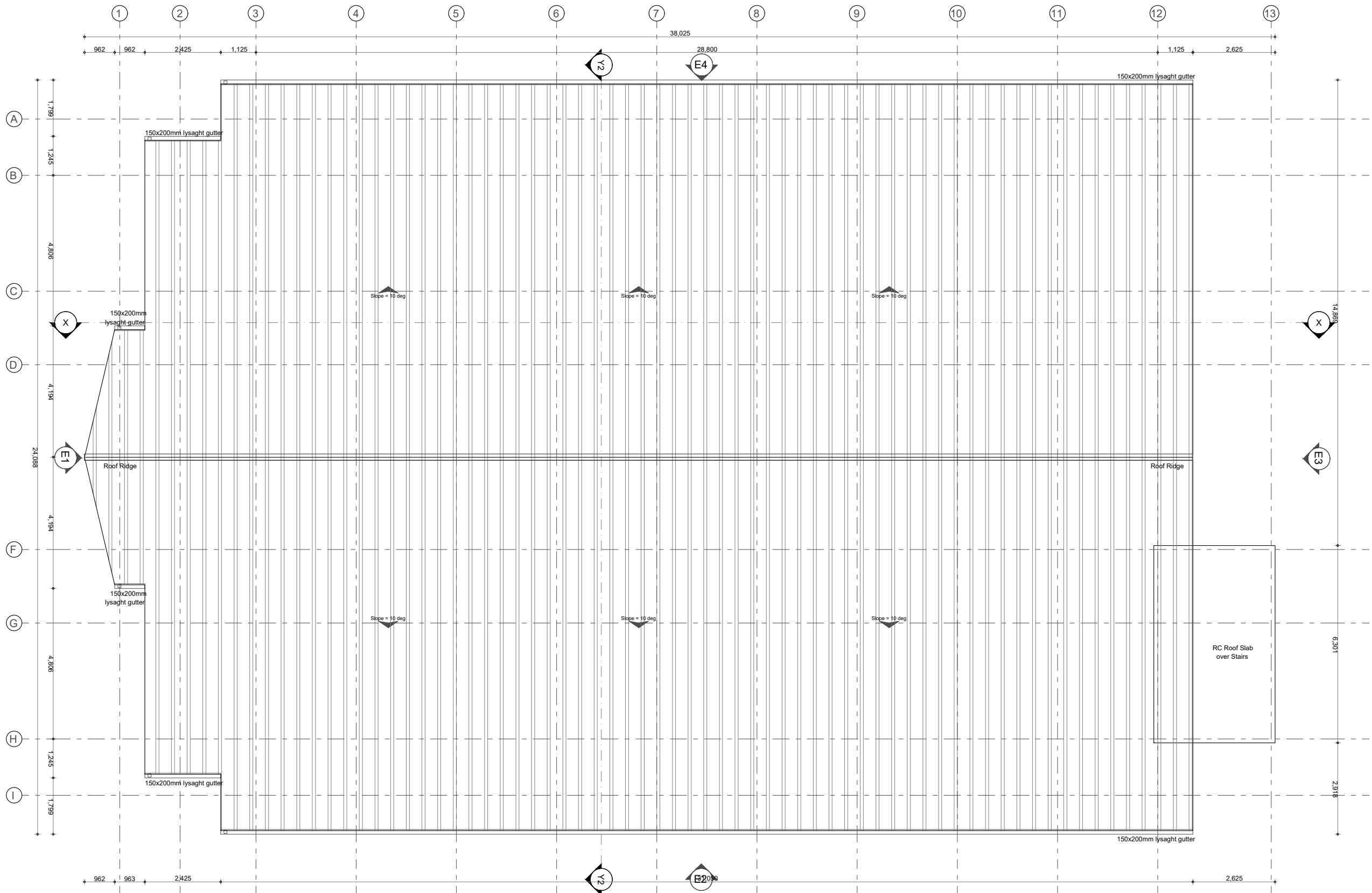
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DATE : July 31, 2023


AMMENDMENTS

Issue	Date	Description

DWG NO : A05 -57



Roof Plan  
1:100



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDHI00 SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

CHECKED : \_\_\_\_\_

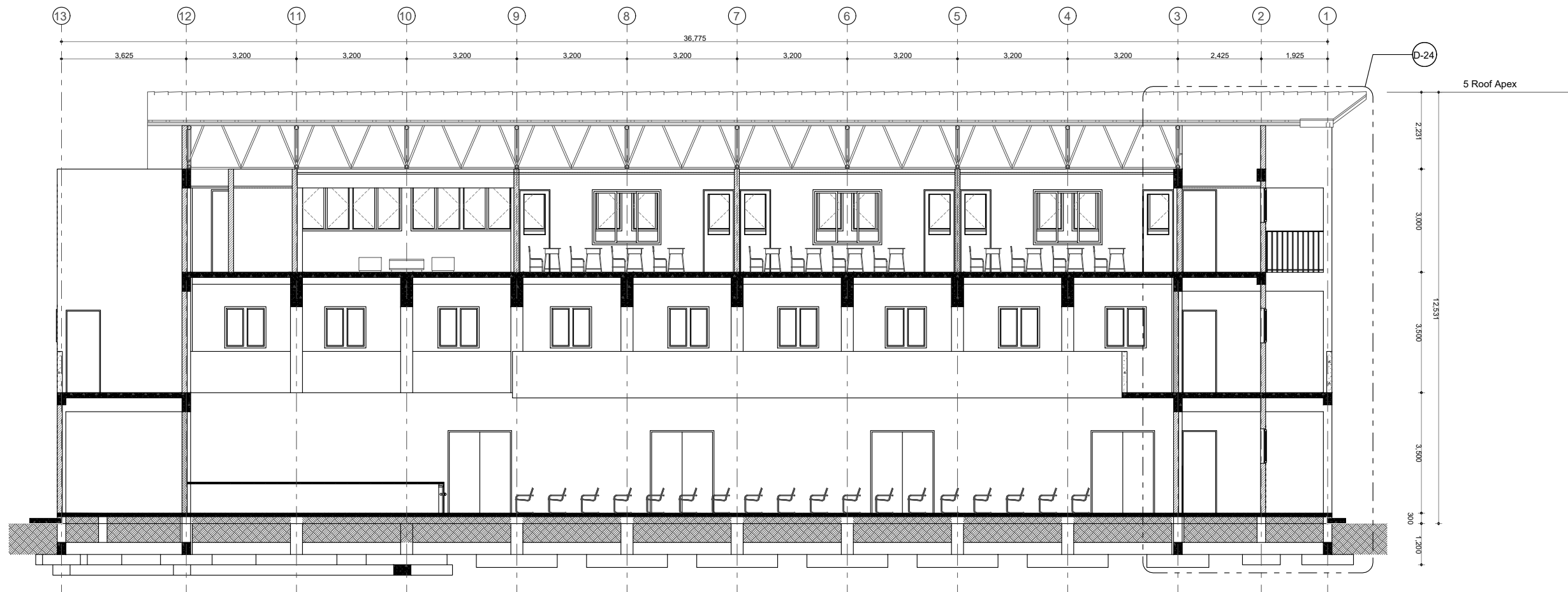
DATE : July 31, 2023

AMMENDMENTS

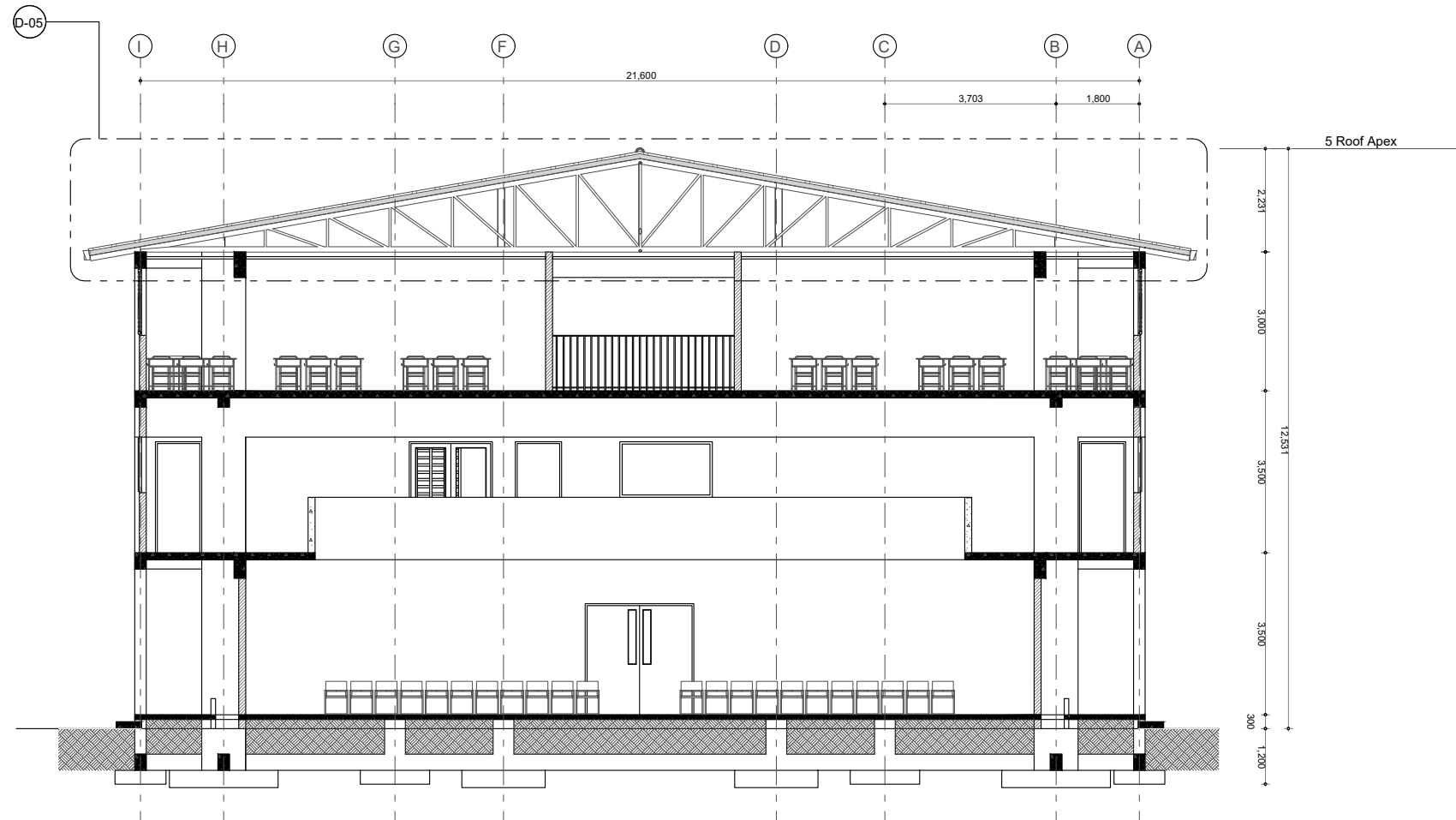
Issue	Date	Description

DWG NO : A06 -57

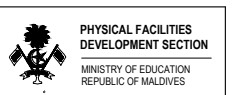




Building Section X-X  
1:100



Building Section Y-Y  
1:100



PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description


DWG NO : A07 -57



Elevation E1  
1:100



Elevation E2  
1:100



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

CHECKED : \_\_\_\_\_

DATE : July 31, 2023

AMMENDMENTS

Issue	Date	Description

DWG NO : A08 -57



Elevation E3  
1:100



Elevation E4  
1:100

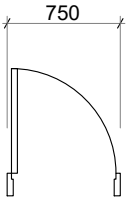
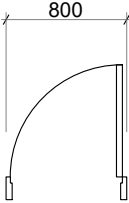
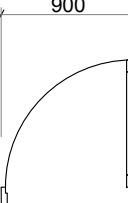
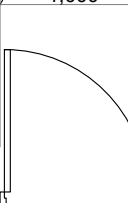
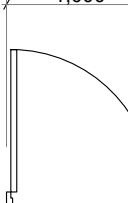
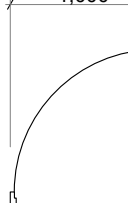
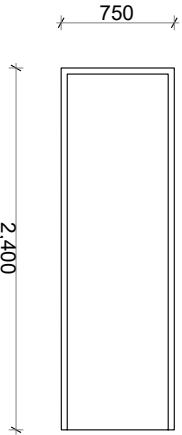
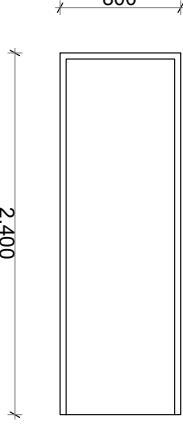
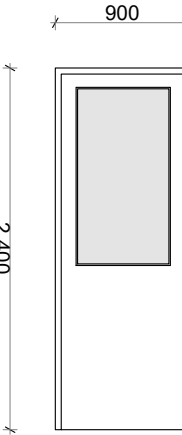
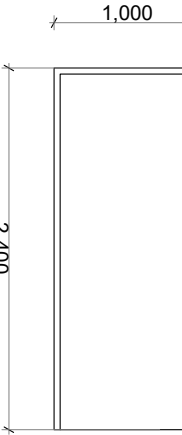
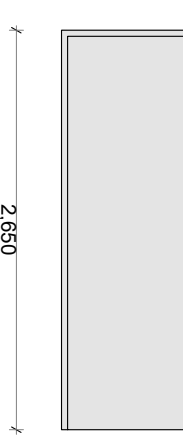
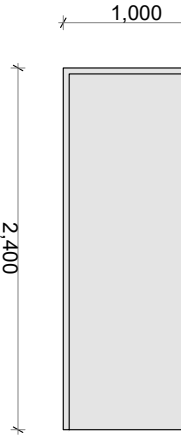


PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

DWG NO : A09 -57

nt ID	D01	D02	D03	D04	D05	D06
ty	7	2	10	10	1	2
Size	750×2,400	800×2,400	900×2,400	1,000×2,400	1,000×2,650	1,000×2,400
ght	0	100	0	0	0	0
eight	2,400	2,500	2,400	2,400	2,650	2,400
mbol						
rom Side ite to Opening						
ame Surface	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour
æaf Surface	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour
ash Surface	---	---	---	---	---	---
ass Surface	---	---	Clear Glass	---	---	---

rd Window Notes

ns shown on DWG indicate effective openings of frame

depths are 100mm  
nel thicknesses are 35mm  
v manel thickness are 25mm  
edges shal be trimmed 3mm

in components should be wood stained finish

g should be of 6mm unless specified

units must comply the following weather conditions:-  
ssure: 200 kg/sqm  
rtness: 25 kg/sqm

al frames / wall joints must be sealed with silicon sealant  
edges trimmed with 12X12mm hardwood beading fixed to  
/ brass nails


are should be provided for the performance of al functions  
ts

iall confirm to  
Door size more than 700X1900mm  
WD: 125mm X2 sets  
SD: 150mm X3 sets  
Door size less than 700X1900mm  
WD: 100mm X2 sets  
SD: 125mm X2 sets

all be cylindrical with master key sets

os shall be1000mm above FFL

Door and Window Schedule  
1:1.01



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

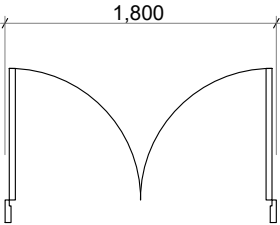
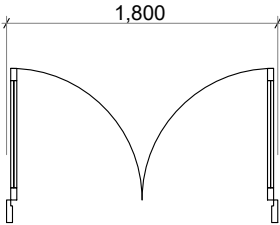
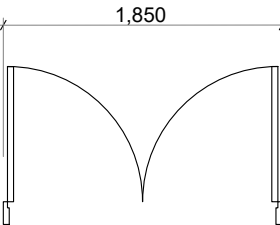
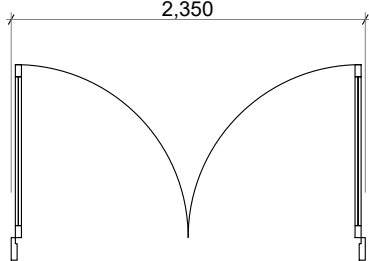
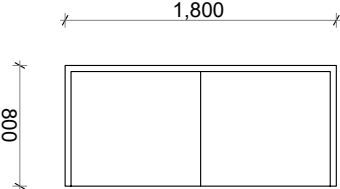
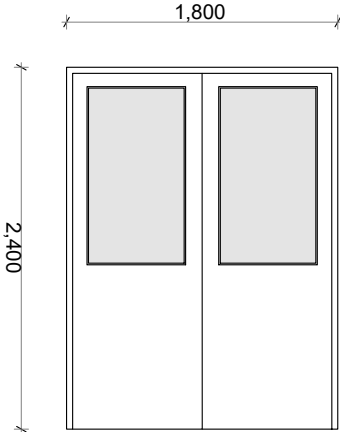
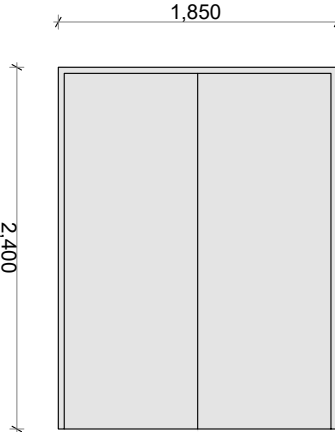
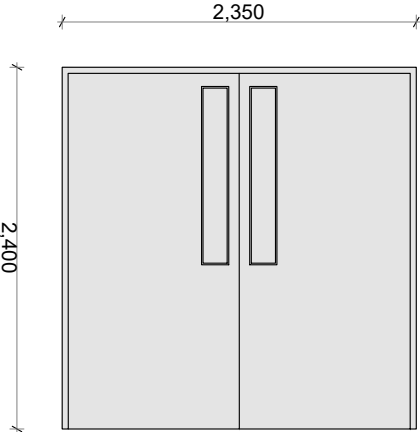
AMMENDMENTS

Issue	Date	Description

DWG NO : A10 -57

All Openings Schedule



Element ID	D06	D07	D08	D09
Quantity	4	1	8	1
W x H Size	1,800×800	1,800×2,400	1,850×2,400	2,350×2,400
Sill height	0	0	0	0
Head height	800	2,400	2,400	2,400
2D Symbol				
View from Side Opposite to Opening Side				
Frame Surface	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour
Leaf Surface	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum panel of selected colour
Sash Surface	---	---	---	---
Glass Surface	---	Clear Glass	---	Clear Glass

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All frame depths are 100mm  
All dor panel thicknesses are 35mm  
All window manel thickness are 25mm  
Al frame edges shal be trimmed 3mm

All wodden 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 12X12mm hardwood beading fixed to  
frames by brass nails

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


- Hinges shall confirm to
- Door size more than 700X1900mm  
WD: 125mm X2 sets  
SD: 150mm X3 sets
  - Door size less than 700X1900mm  
WD: 100mm X2 sets  
SD: 125mm X2 sets

Locks shall be cylindrical with master key sets

Door knobs shall be1000mm above FFL

Door and Window Schedule  
1:1.01

All Openings Schedule



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
L.DHANBIDHI00 SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

CHECKED : \_\_\_\_\_

DATE : July 31, 2023

AMMENDMENTS

Issue	Date	Description

DWG NO : A11 -57

Element ID	W02	W03	W04	W05	W01
Quantity	3	4	19	7	15
W x H Size	1,000×2,600	1,200×750	1,200×1,200	1,300×2,600	900×1,000
Sill height	50	1,700	1,300	50	1,450
Head height	2,650	2,450	2,500	2,650	2,450
2D Symbol					
View from Side Opposite to Opening Side					
Frame Surface	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour
Leaf Surface	---	---	---	---	---
Sash Surface	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	Powder coated Aluminum (60 micron)	Powder coated Aluminum (60 micron)	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	Powder coated Aluminum (60 micron)
Glass Surface	---	---	Clear Glass	---	Clear Glass

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All frame depths are 100mm  
All dor panel thicknesses are 35mm  
All window manel thickness are 25mm  
Al frame edges shal be trimmed 3mm

All wodden 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 12X12mm hardwood beading fixed to frames by brass nails

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


Hinges shall confirm to  
1. Door size more than 700X1900mm  
WD: 125mm X2 sets  
SD: 150mm X3 sets  
2. Door size less than 700X1900mm  
WD: 100mm X2 sets  
SD: 125mm X2 sets

Locks shall be cylindrical with master key sets

Door knobs shall be1000mm above FFL

Door and Window Schedule  
1:1.01

All Openings Schedule



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PROJECT :  
L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

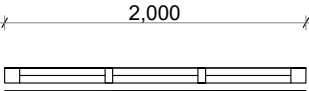
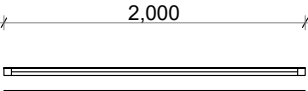
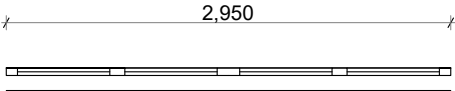
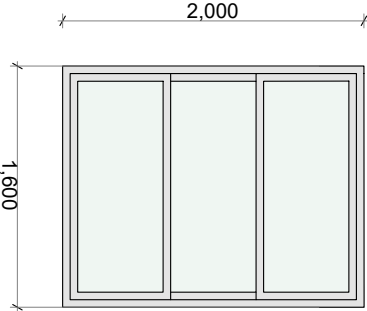
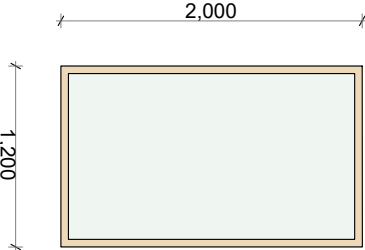
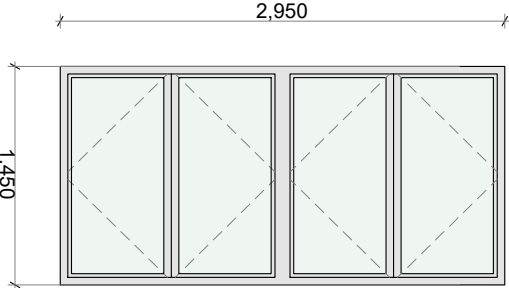
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DATE : July 31, 2023

AMMENDMENTS

Issue	Date	Description

DWG NO : A12 -57

W06	W07	Element ID	W07
5	1	Quantity	16
2,000×1,600	2,000×1,200	W x H Size	2,950×1,450
800	1,200	Sill height	1,200
2,400	2,400	Head height	2,650
		2D Symbol	
		View from Side Opposite to Opening Side	
50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour	Frame Surface	50x100x2mm Thick powder coated (60 microns) Aluminum frame of selected colour
---	---	Leaf Surface	---
Powder coated Aluminum (60 micron)	Powder Coated Aluminium of selected colour finish	Sash Surface	Powder coated Aluminum (60 micron)
Clear Glass	Clear Glass	Glass Surface	Clear Glass

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All frame depths are 100mm  
All dor panel thicknesses are 35mm  
All window manel thickness are 25mm  
Al frame edges shal be trimmed 3mm

All wodden 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 12X12mm hardwood beading fixed to  
frames by brass nails

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

- Hinges shall confirm to
- Door size more than 700X1900mm  
WD: 125mm X2 sets  
SD: 150mm X3 sets
  - Door size less than 700X1900mm  
WD: 100mm X2 sets  
SD: 125mm X2 sets

Locks shall be cylindrical with master key sets

Door knobs shall be1000mm above FFL

Door and Window Schedule  
1:1.01



PROJECT :  
L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

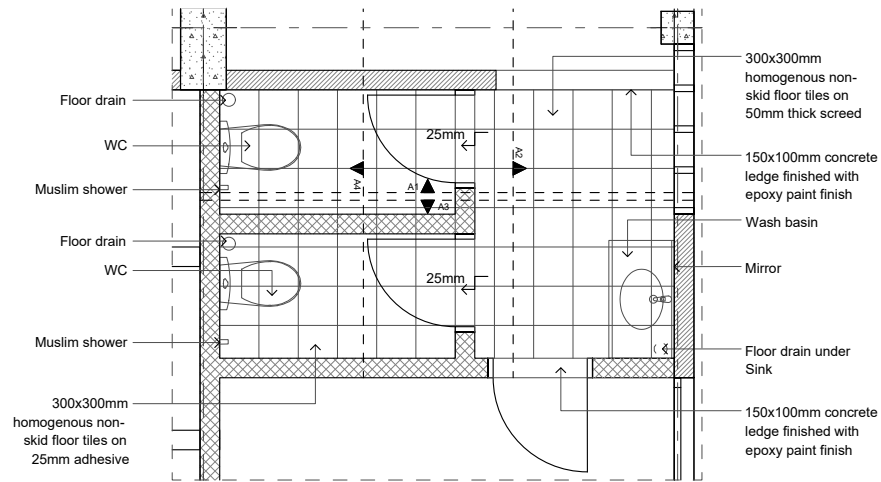
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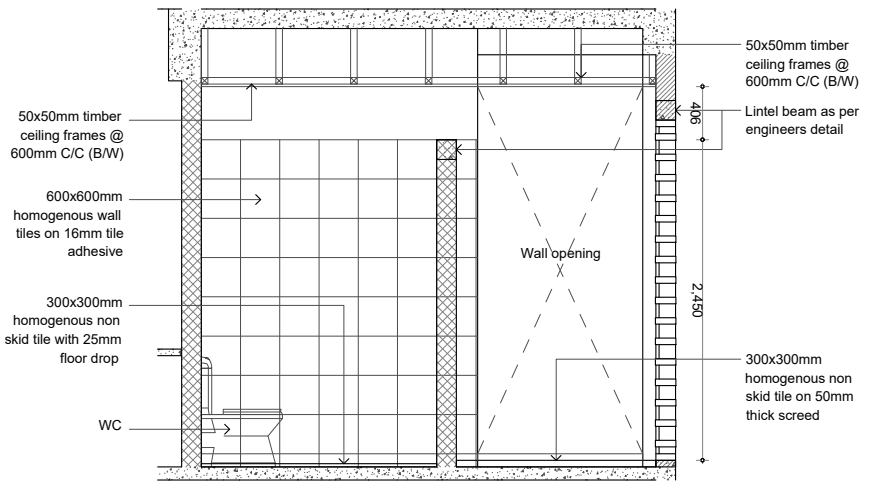
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

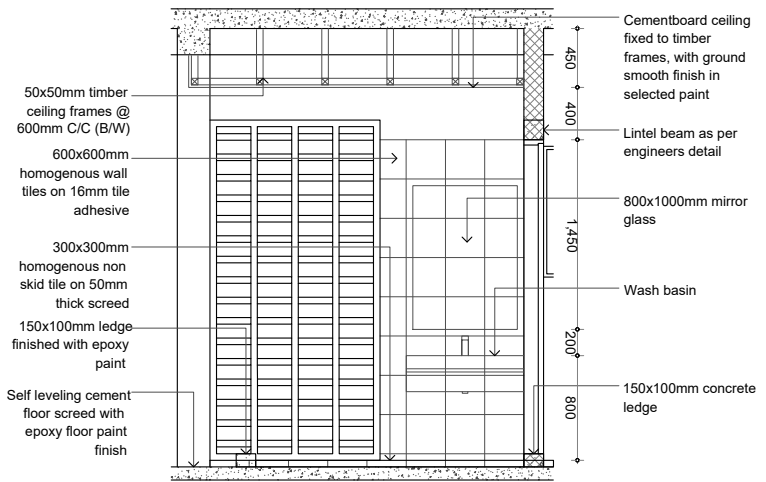
All Openings Schedule



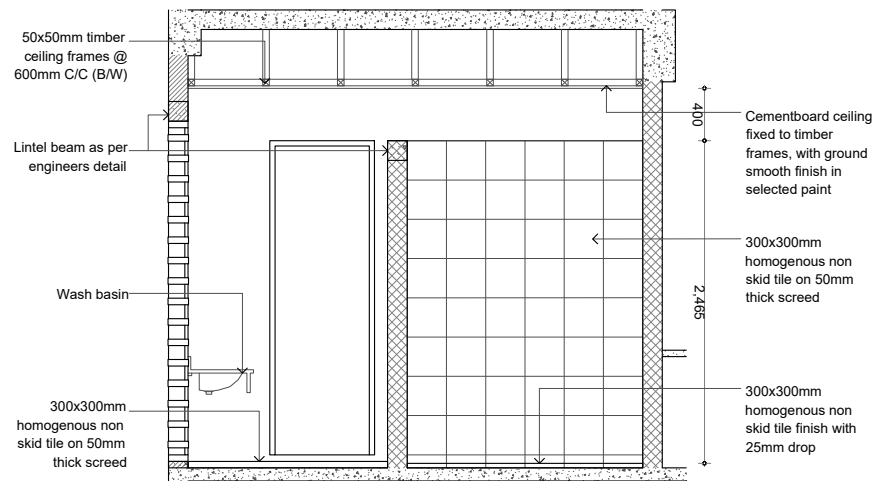
Toilet (F) Ground Floor Plan  
1:50



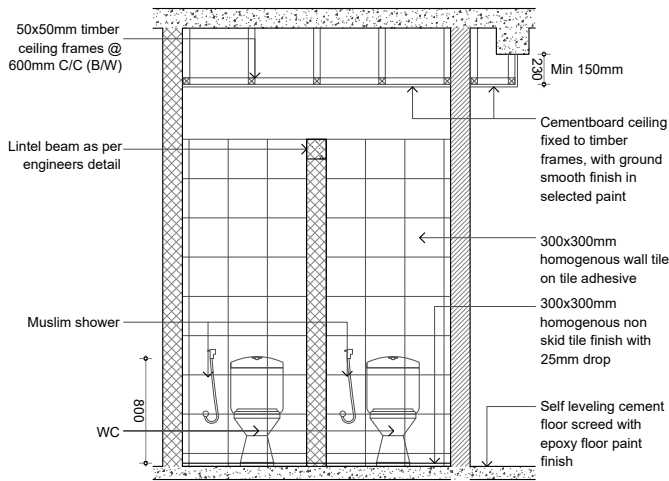
Interior Elevation A1  
1:50



Interior Elevation A2  
1:50




Interior Elevation A3  
1:50



Interior Elevation A4  
1:50

Toilet Detail 01



PHYSICAL FACILITIES  
DEVELOPMENT SECTION

MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDHIIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

CHECKED : \_\_\_\_\_

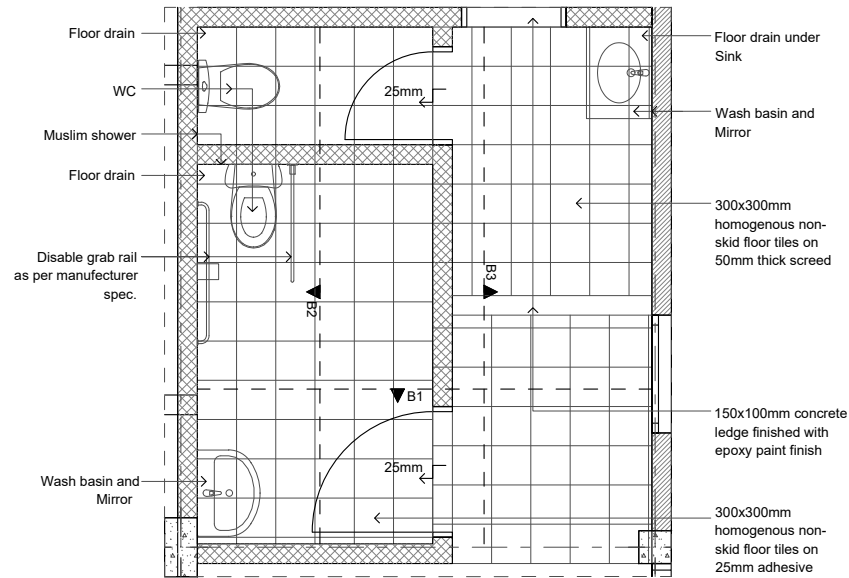
DATE : July 31, 2023

AMMENDMENTS

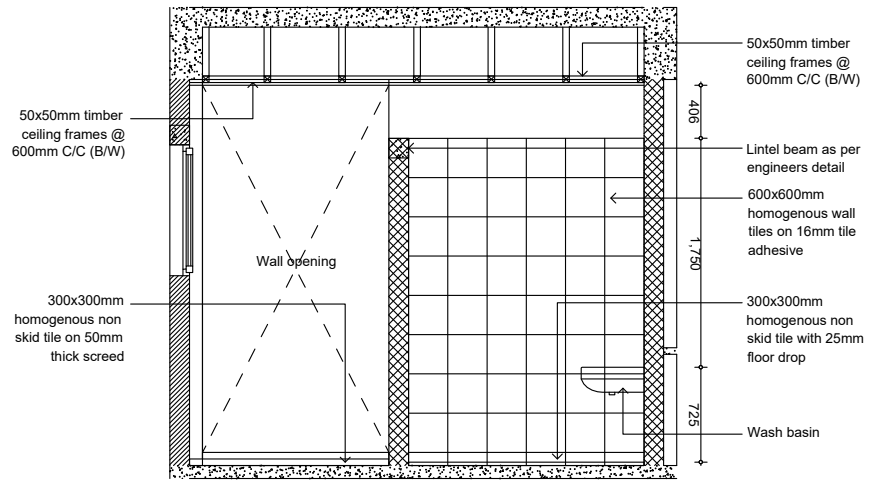
Issue	Date	Description

DWG NO : A14 -57

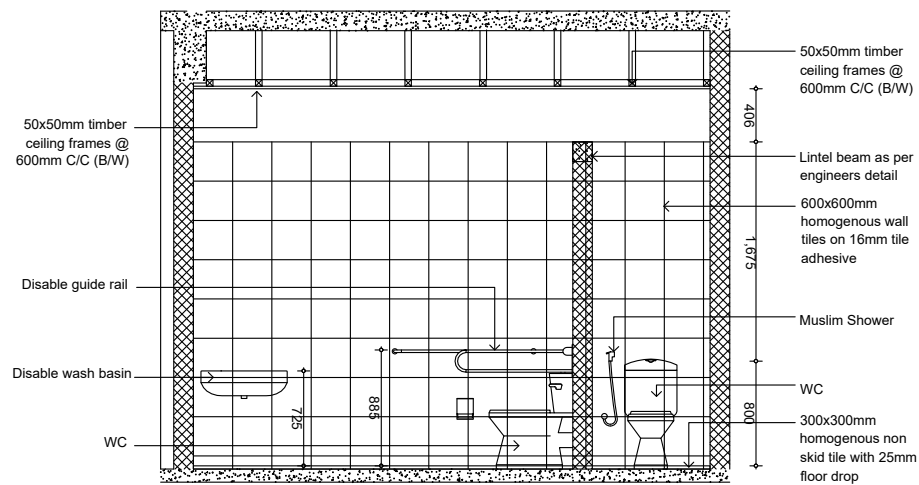




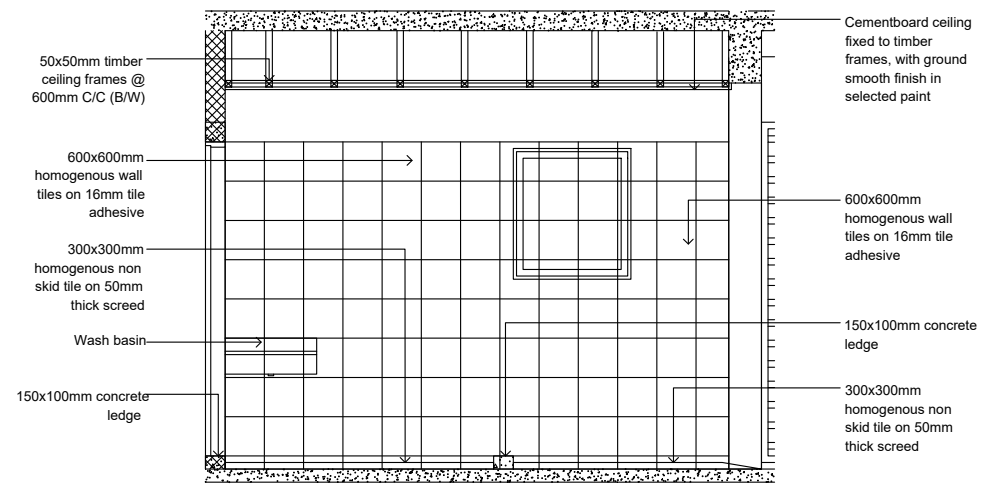
Toilet (M) Ground Floor Plan View  
1:50



Interior Elevation B1  
1:50

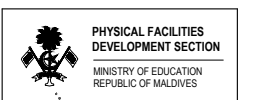


Interior Elevation B2  
1:50



Interior Elevation B4  
1:50

Toilet Detail 02

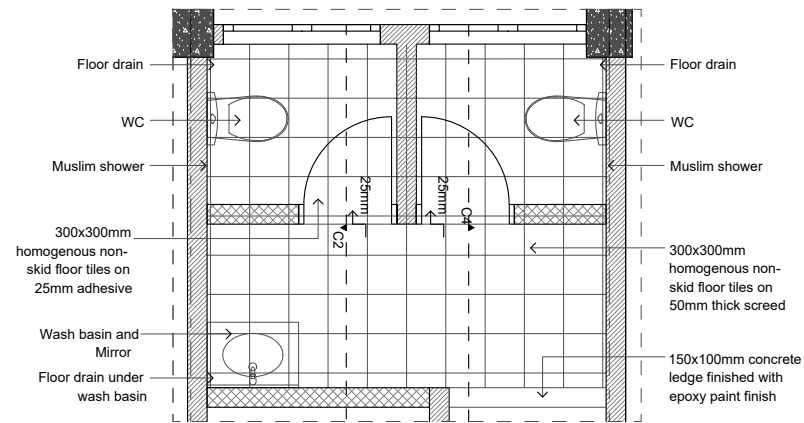


PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

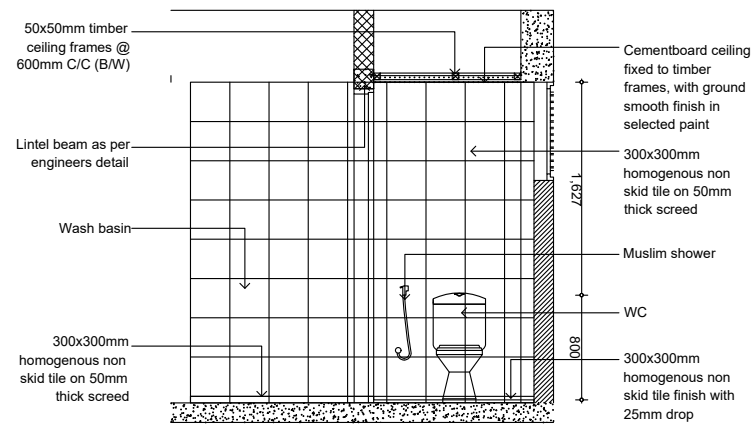
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SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

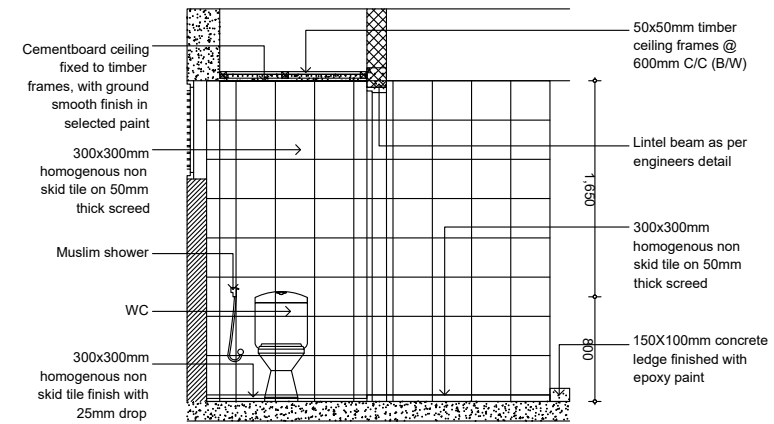
DWG NO : A15 -57



Toilet Detail (typical) Second Floor Plan View  
1:50



Interior Elevation C1  
1:50



Interior Elevation C2  
1:50

Toilet Detail 03

PROJECT :  
**L.DHANBIDHIIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF :  
SCALE : AS GIVEN  
ARCHITECT :  
ENGINEER :  
DRAWN :  
CHECKED :  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

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.

1.5. 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.

1.6. 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.

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

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 of50 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:

Miz Number	1	2	3	4
Grade	C30/37	C25/30	C25/30	C16/20
Min cement content (kg/m³)	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-structutre) or any reinforced concrete works in contact with soil or water.

mix 3 - used in reinforced concrete works above ground fir 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:

a) acid soluble chlorides in aggregate - (fine 0.03%, coarse 0.02%)

b) 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:

a) no holes, sleeves or penetrations be placed vertically or horizontally through beams unless approved by the engineer.

b) no holes to be made in slabs unless approved by the engineer.

2.8. Construction joints:

a) the contractor shall submit to the engineer for approval a plan marked up showing the location of all construction joints

b) horizontal construction joints shall not be made in beams, unless approved by the consultant or engineers.

c) vertical construction joints may be located at midspan of slabs or beams after reviewed and approved by the engineers.

d) 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 pounding 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 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.

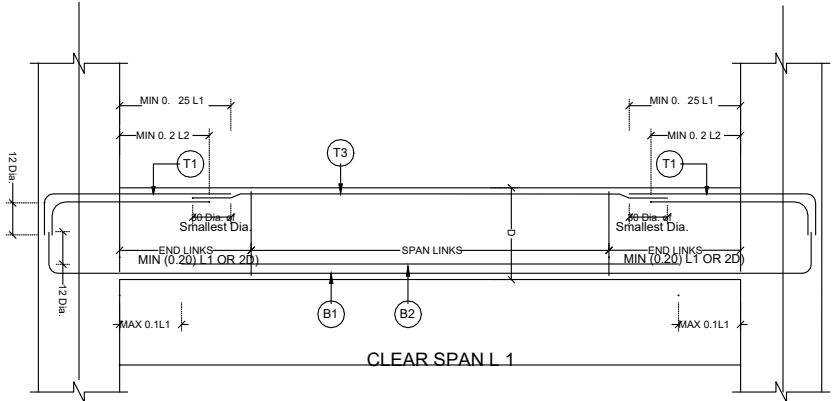


Notes:

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\*="column width/2. For 'column width' greater than 2m, l\*=1m

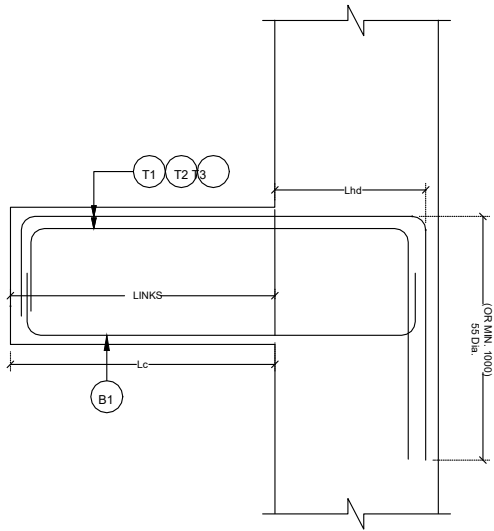
Supplementary abbreviations:

- 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



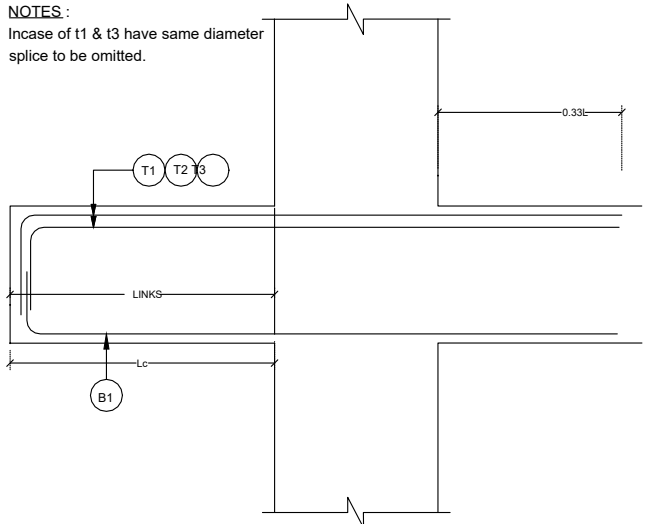
SIMPLE BEAM DETAILS

NTS



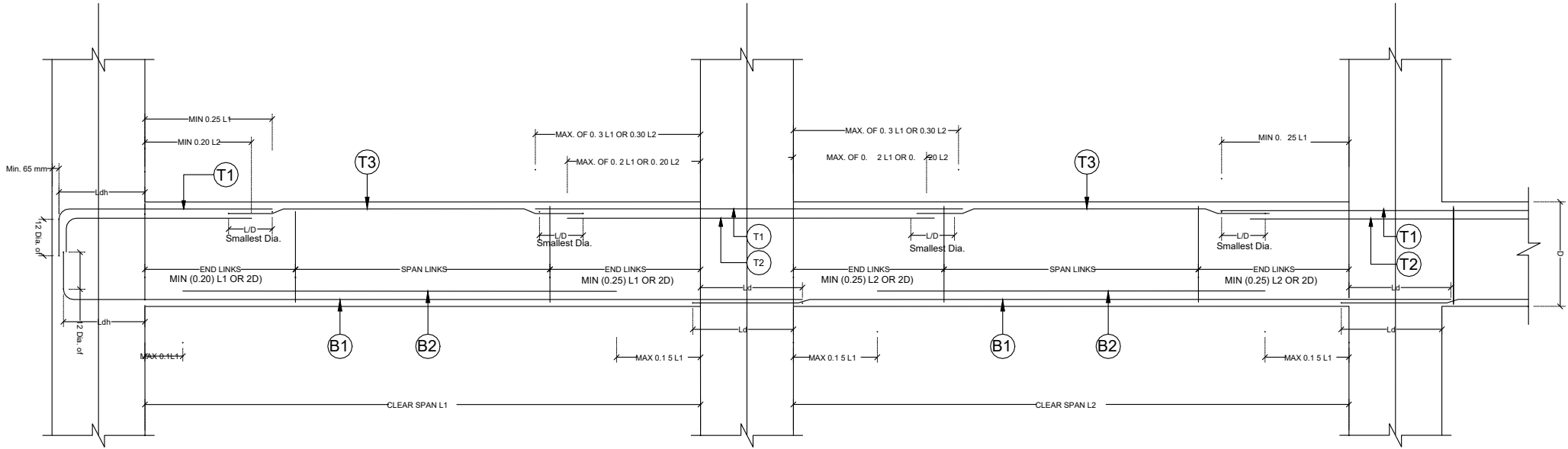
TYPICAL CANTELEVER BEAM FROM COLUMN

NTS



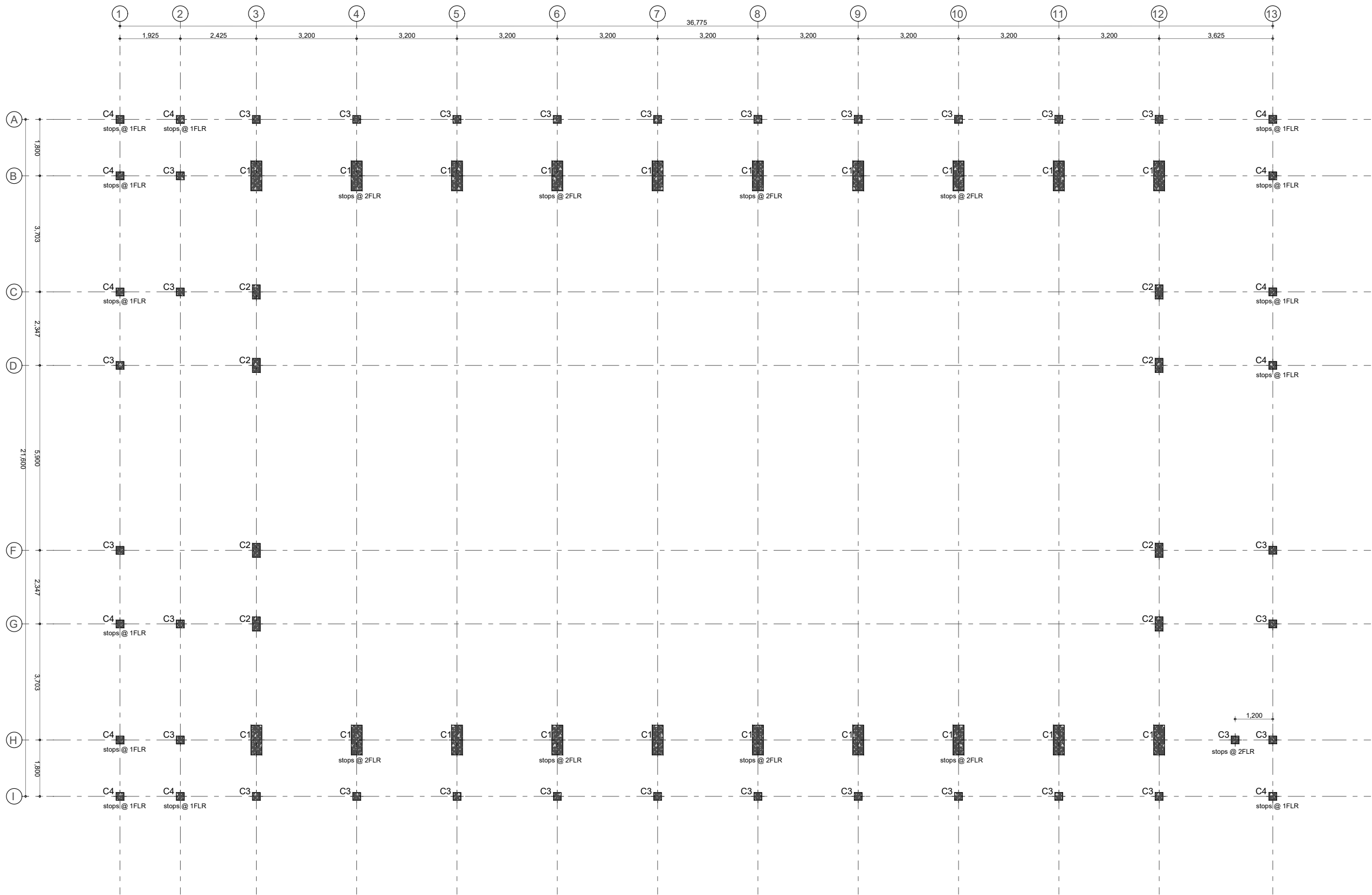
TYPICAL CANTELEVER BEAM CONTINUOUS

NTS



CONTINUOUS BEAM DETAILS

NTS



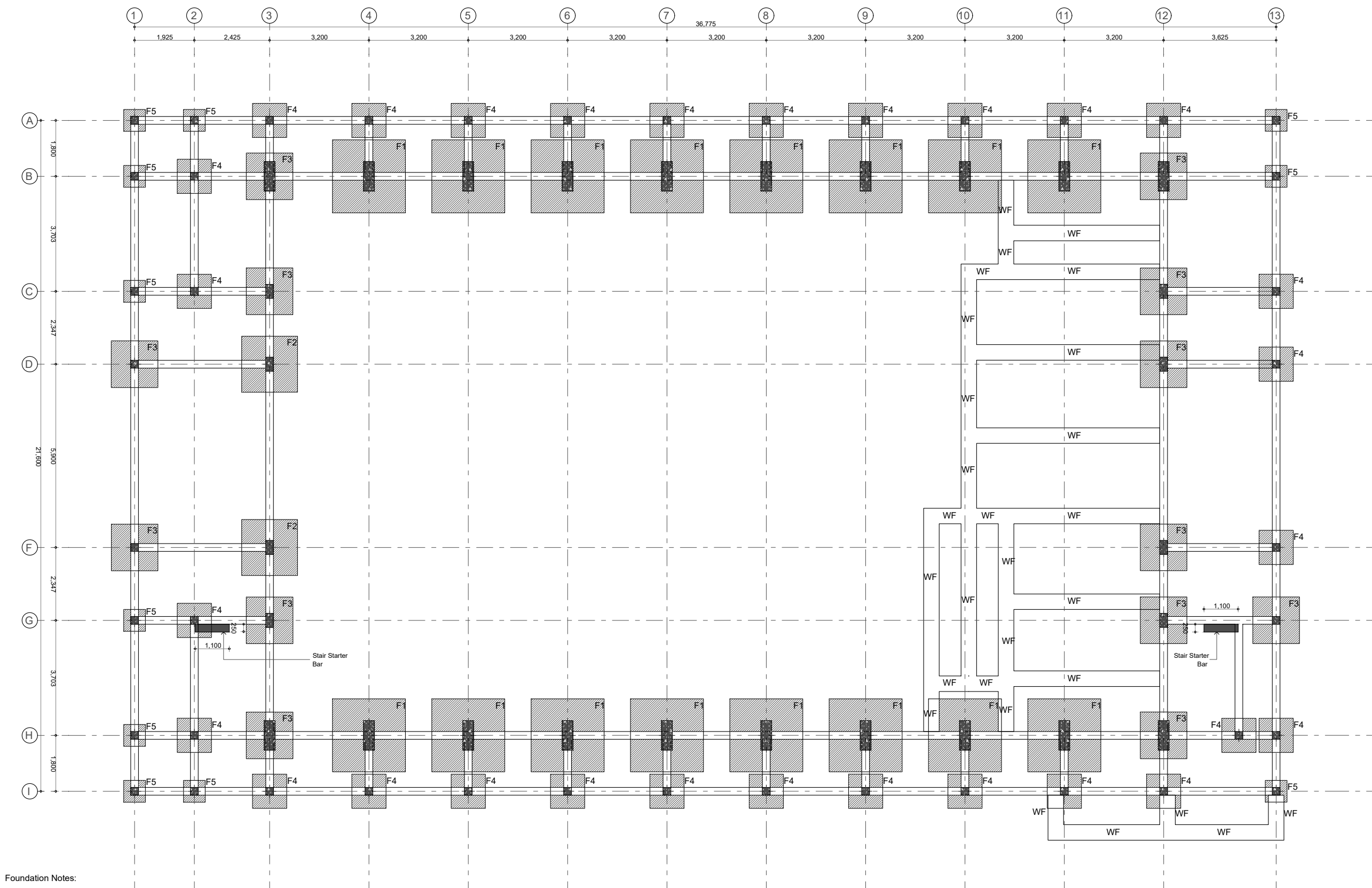
Column Layout  
1:100



PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description



Foundation Notes:

	Dimensions	Reinforcement	Foundation Depth
F1	2350X2350X375	T12@ 125C/C B/W (B)	1275 mm
F2	1800X1800X375	T12@ 150C/C B/W (B)	1275 mm
F3	1500X1500X300	T10@ 150C/C B/W (B)	1200 mm
F4	1100X1100X300	T10@ 150C/C B/W (B)	1200 mm
F5	700X700X300	T10@ 150C/C B/W (B)	1200 mm

Foundation Depth = as specified on Pad Footing  
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  
Add waterproofing admixture and apply waterproofing to all substructure (below ground elements)

All Tie Beams are TB1



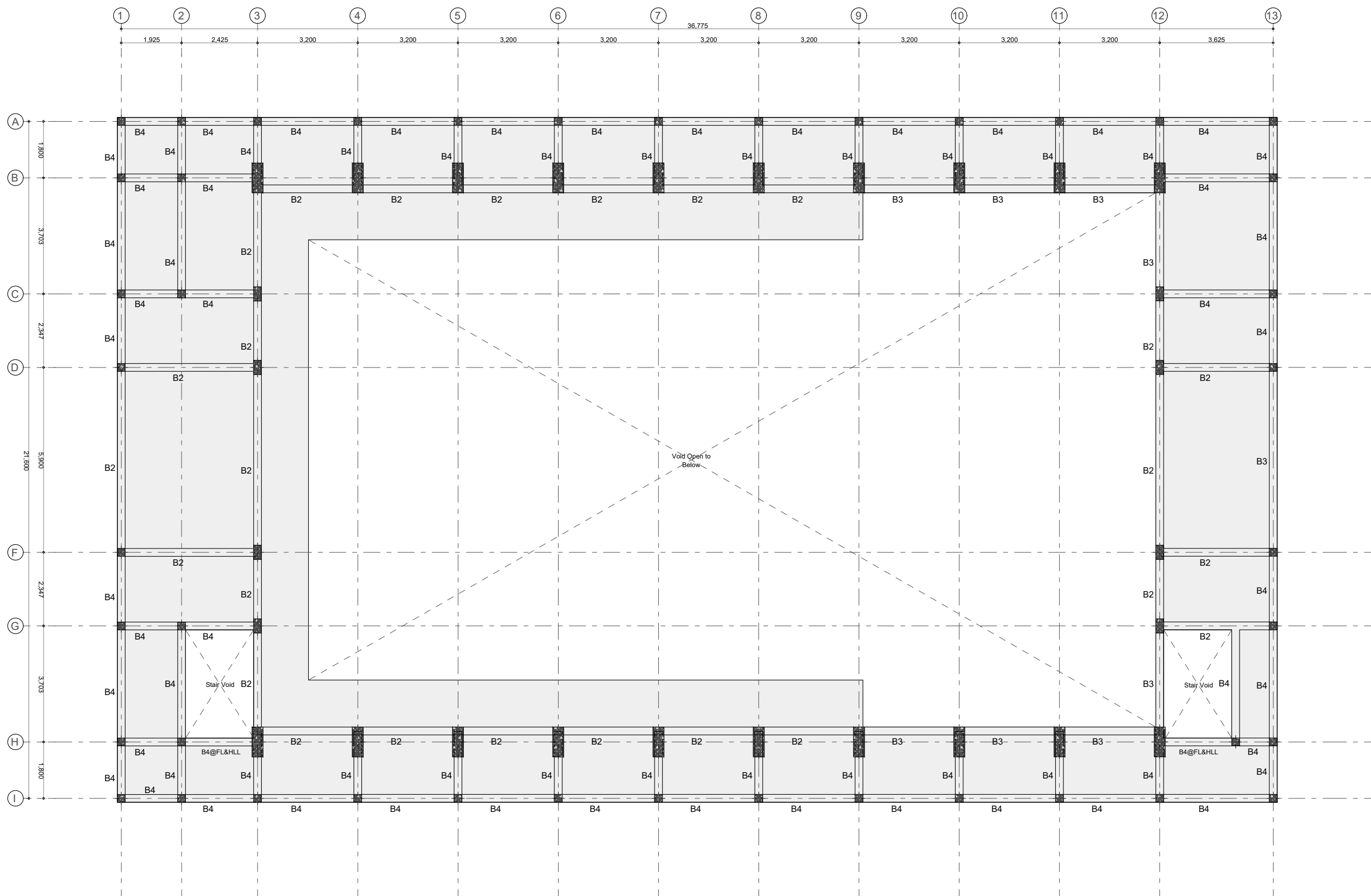
PROJECT :  
**L.DHANBIDHI00 SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF:	
SCALE :	AS GIVEN
ARCHITECT :	
ENGINEER :	
DRAWN :	
CHECKED :	
DATE :	July 31, 2023

AMMENDMENTS		
Issue	Date	Description

DWG NO : S02 -57

Foundation Plan  
1:100



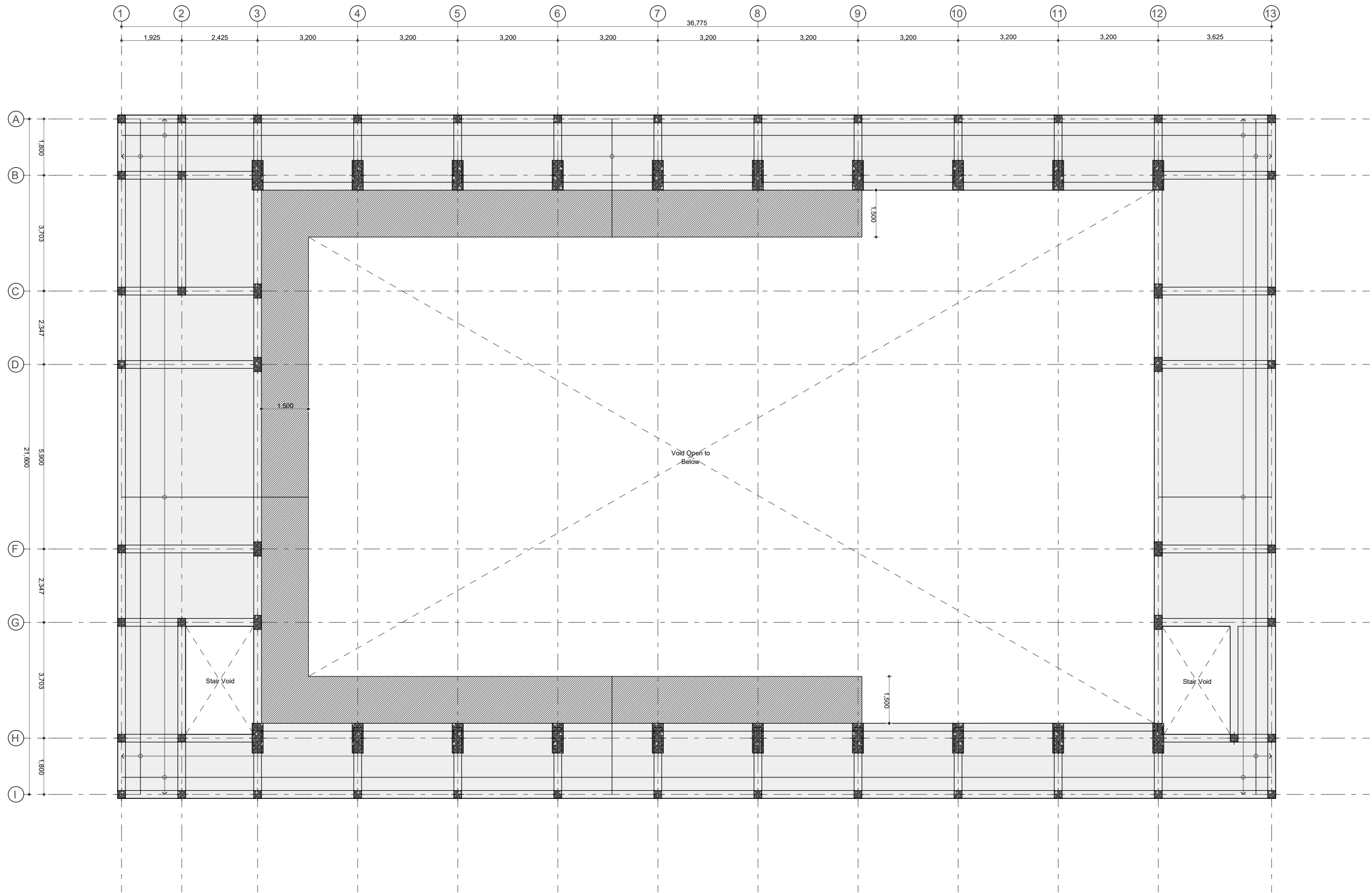
First Floor Beam Plan  
1:100



PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description



Notes:

- Slab thickness = 160mm
- Slab thickness = 150mm

Bottom Reinforcement = T10@150 C/C B/W (not shown)  
Top Reinforcement = T12@100 C/C (as shown, unless specified)  
Distribution Steel = T12@100 C/C (unless specified)  
Reinforcement discontinuous at voids

First Floor Reinforcement Plan  
1:100

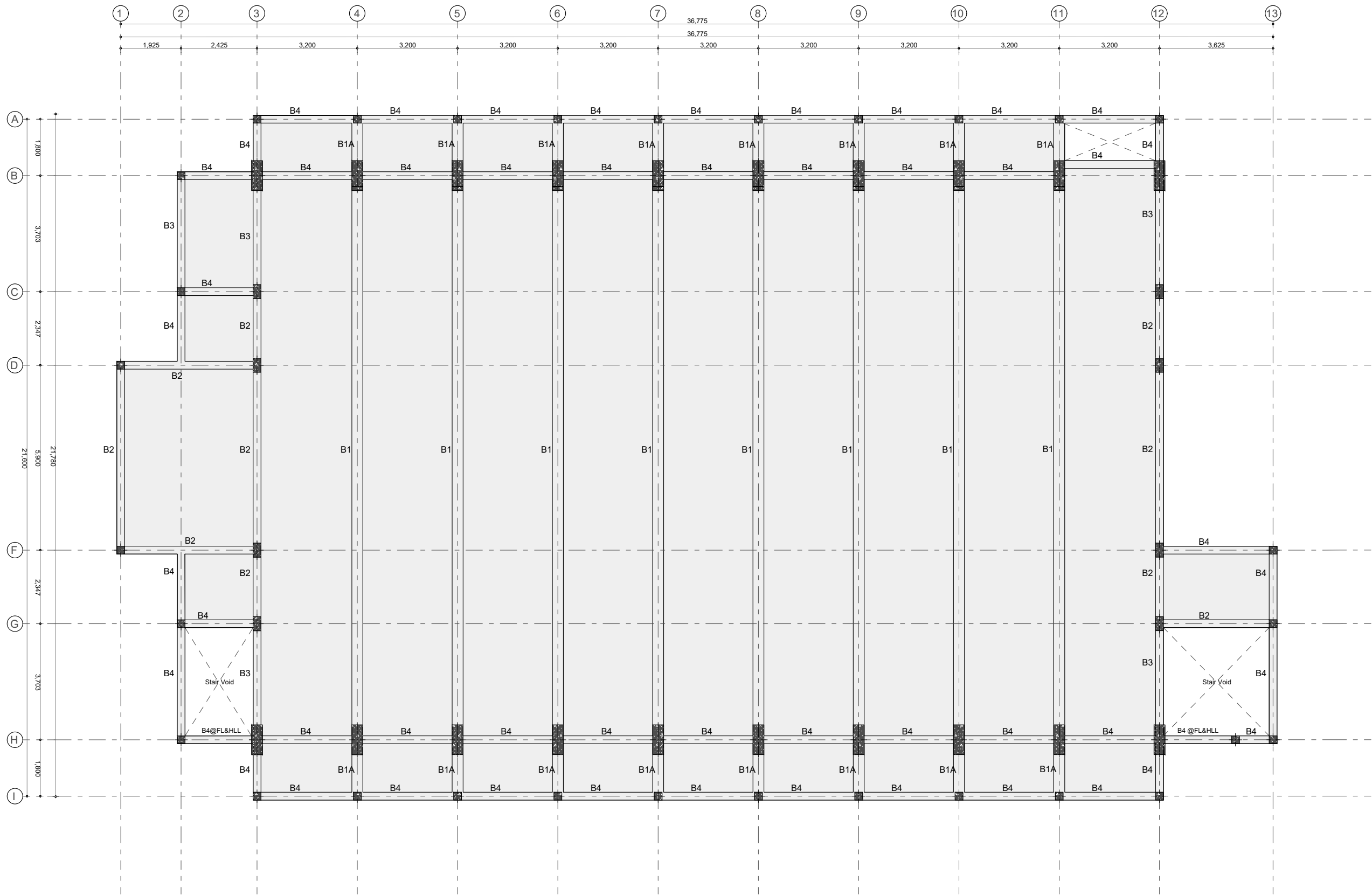


PROJECT :  
L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS


PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

DWG NO : S04 -57



Second Floor Beam Plan  
1:100



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

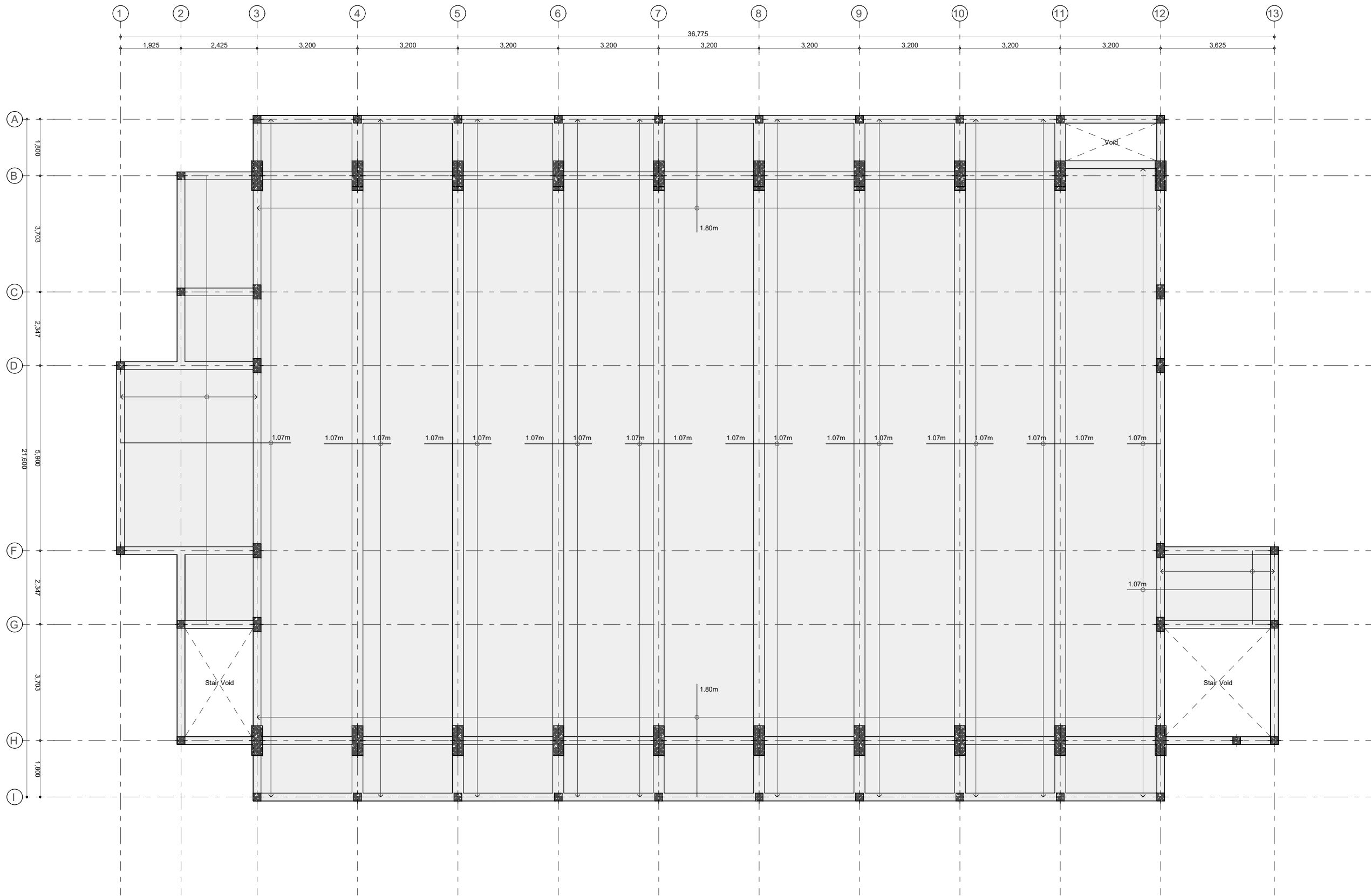
PROJECT :  
**L.DHANBIDHIIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS  

Issue	Date	Description

DWG NO : S05 -57



Notes:

- Slab thickness = 150mm
- Bottom Reinforcement = T10@150 C/C B/W (not shown)
- Top Reinforcement = T10@300 C/C B/W (not shown)
- Additional Top Reinforcement=T10@300 C/C (as shown)
- Reinforcement discontinued at voids

Second Floor Reinforcement Plan  
1:100



PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

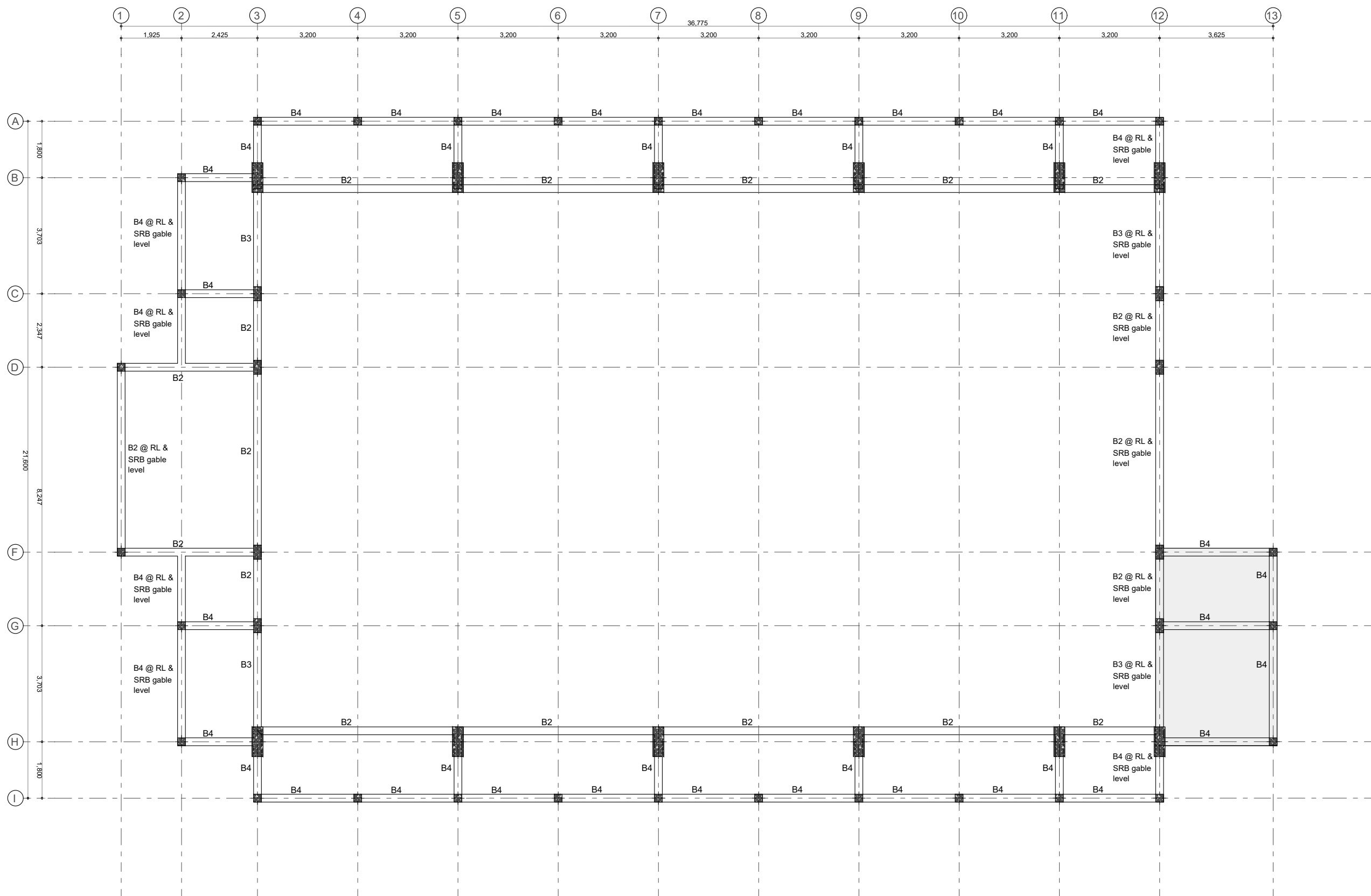
ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

CHECKED : \_\_\_\_\_

DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description



Roof Beam Plan  
1:100

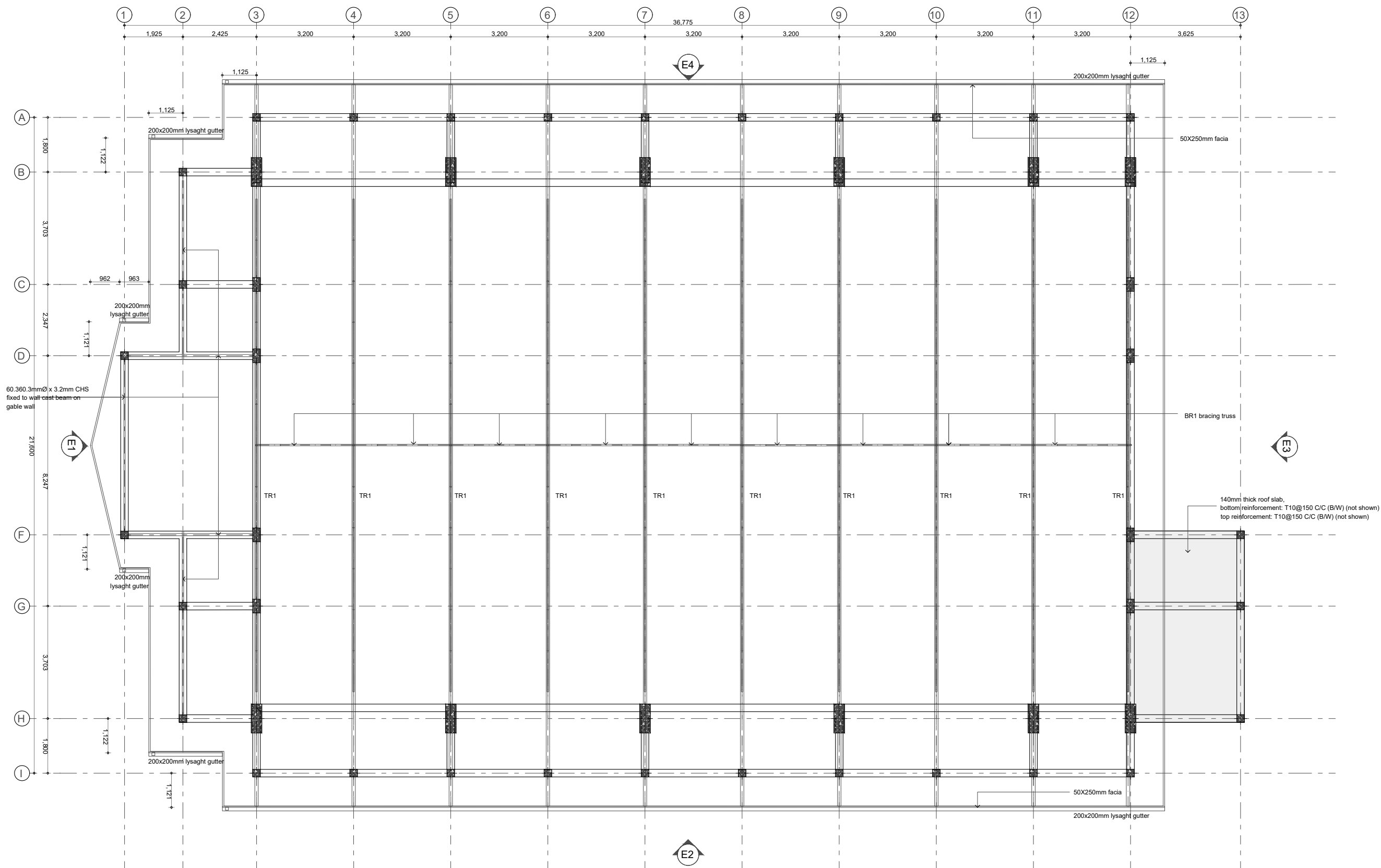


PROJECT :  
**L.DHANBIDHI00 SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description





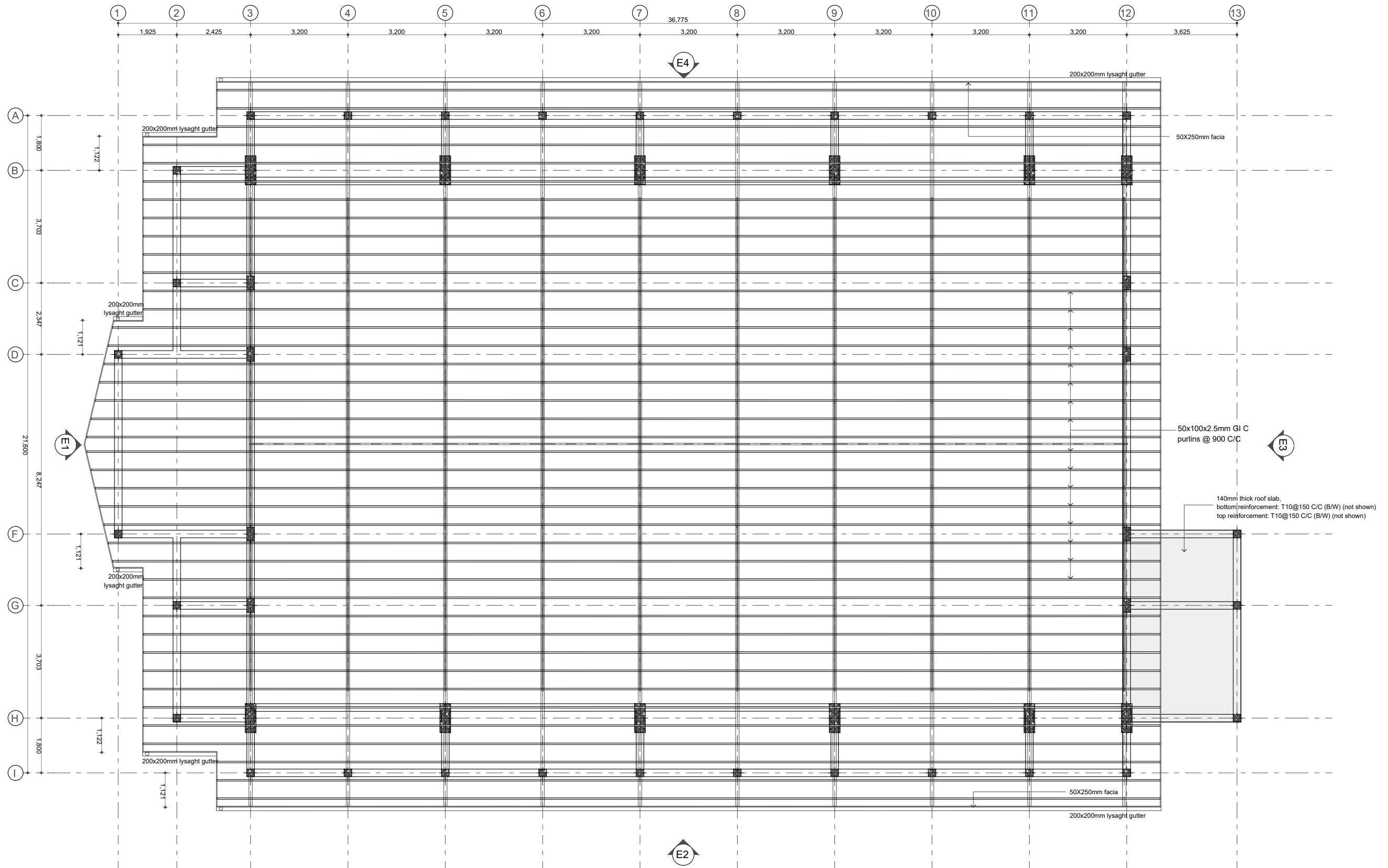
Roof Truss Plan  
1:100



PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description



Roof Framing Plan  
1:100



PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

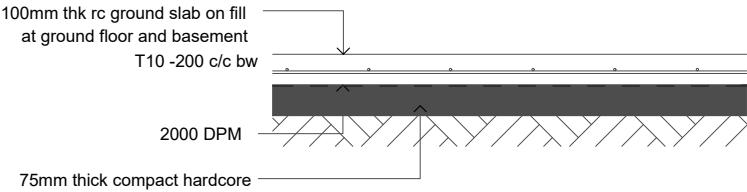
Foundation Notes:

	Dimensions	Reinforcement	Foundation Depth
F1	2350X2350X375	T12@ 125C/C B/W (B)	1275 mm
F2	1800X1800X375	T12@ 150C/C B/W (B)	1275 mm
F3	1500X1500X300	T10@ 150C/C B/W (B)	1200 mm
F4	1100X1100X300	T10@ 150C/C B/W (B)	1200 mm
F5	700X700X300	T10@ 150C/C B/W (B)	1200 mm

Foundation Depth = as sperscified on Pad Footing  
Ground Slab = 100mm thick RC slab on fill reinforced with T10@200C/C (B/W)

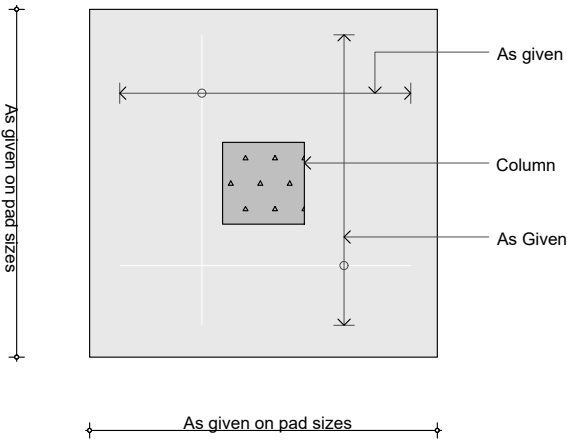
All Footings are to be laid on top of 50mm thick lean concrete  
Add waterproofing admixture and apply waterproofing to all substructure (below ground elements)

All Tie Beams are TB1

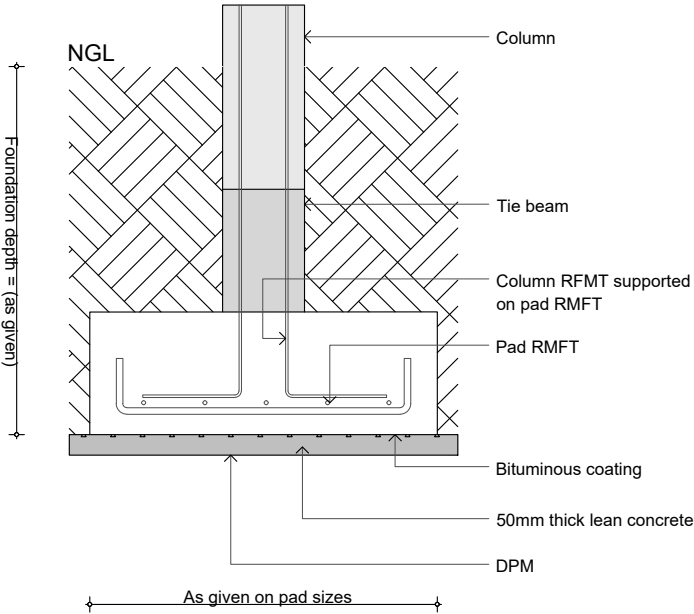


NOTE:  
All cover blocks shall be casted using grade C 25 / 30 concrete with 5-10 mm aggregates  
  
For slab, rebar spacer chairs spacing shall be minimum 1m spacing or 1 no. per 1 sqm

Typical Ground Slab Construction Detail  
1:20

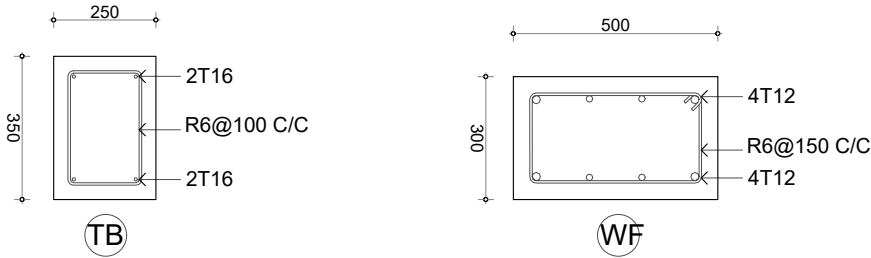


Plan View

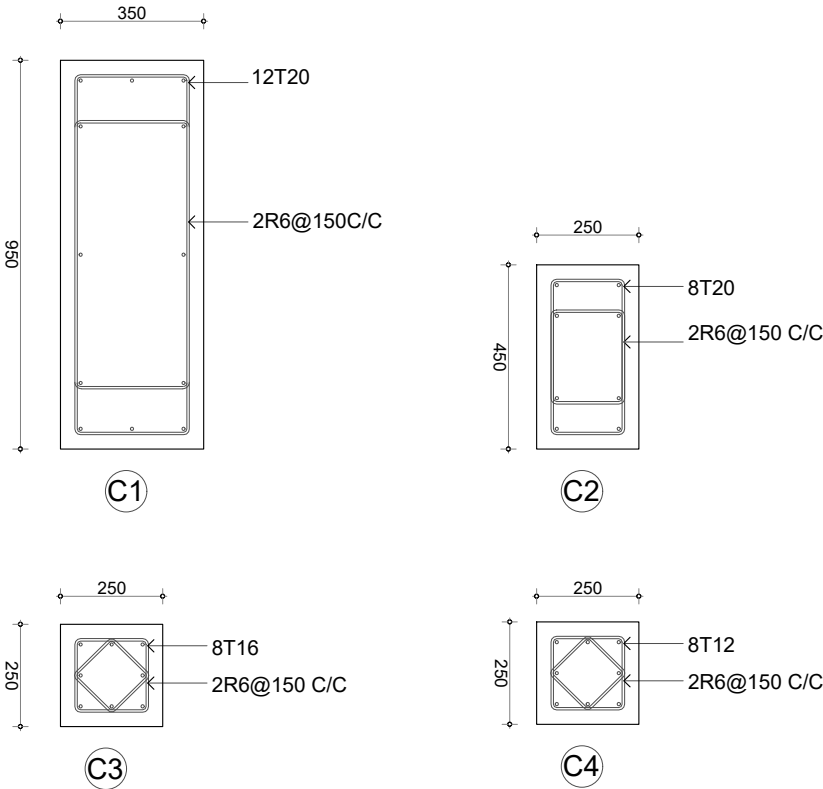


Sectional View

Typical Footing Detail  
1:20



Tie Beam Details  
1:20



Structural Details 01

Columns Details  
1:20



PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

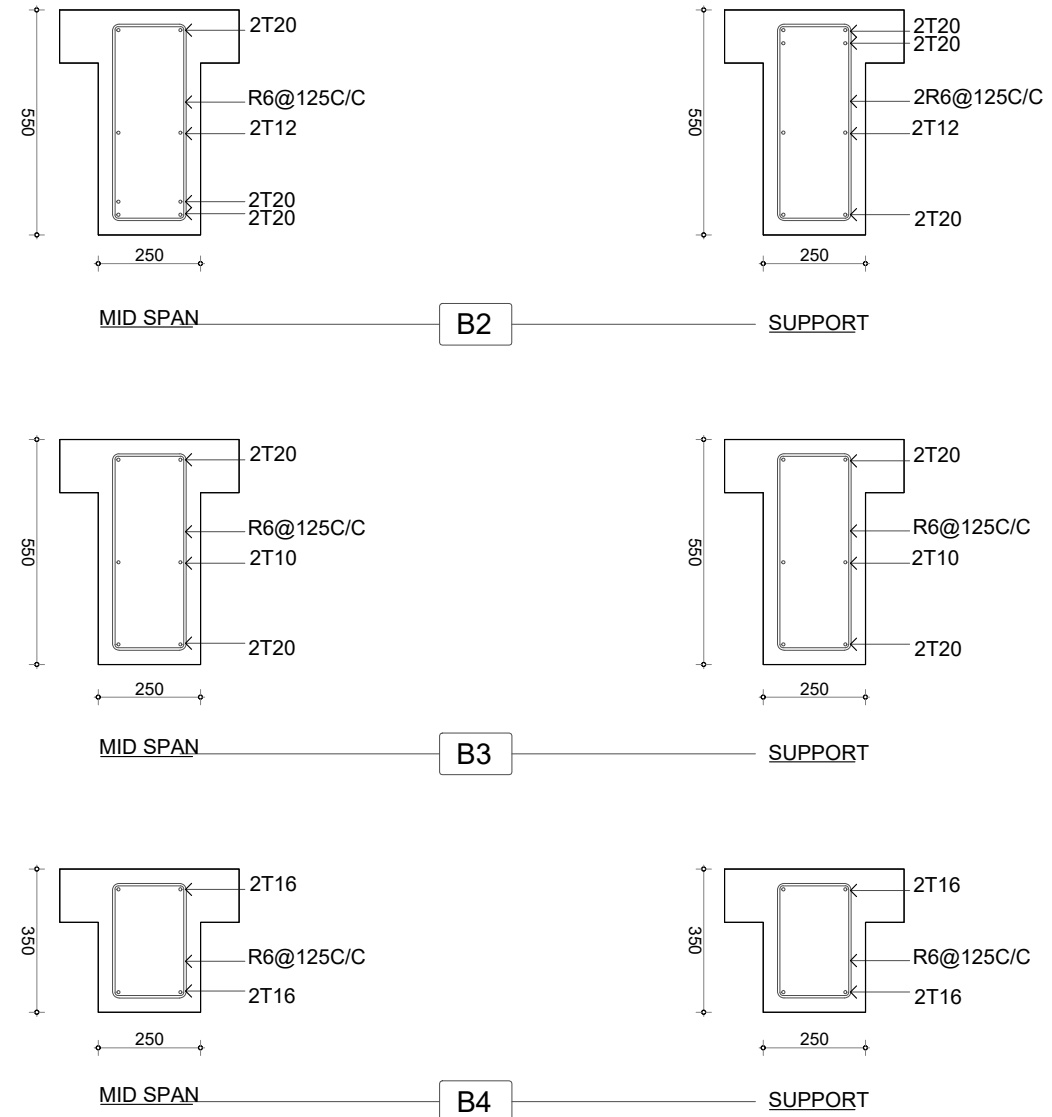
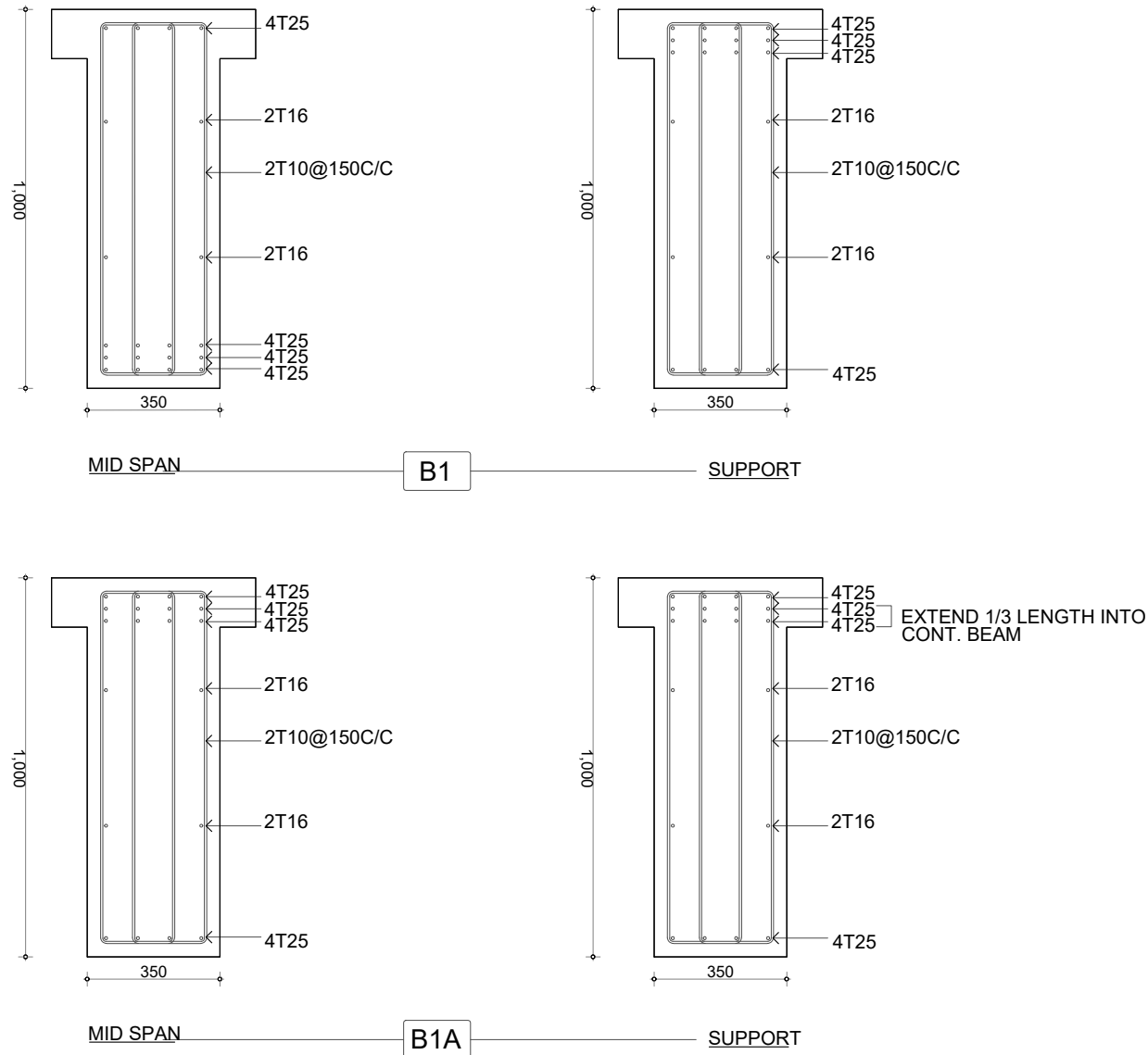
ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

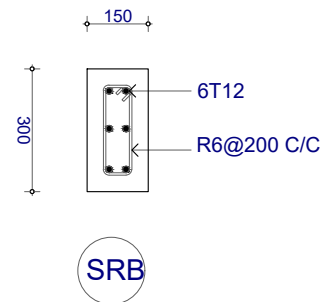
CHECKED : \_\_\_\_\_

DATE : July 31, 2023

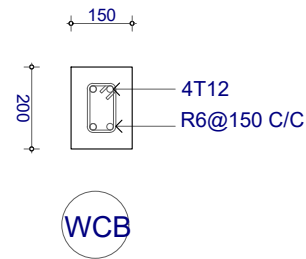
AMMENDMENTS		
Issue	Date	Description



Beams Details  
1:20



Sloping Roof Beam Detail (cast on top of gable wall)  
1:20

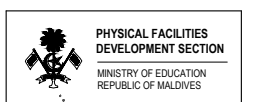


Wall Cast Beam Detail  
1:20

Notes:

Spacer bars shall be provided for B1 & B1A in between top and bottom layer rebars with 25mm bar @ 1000 C/C

Structural Details 02



PROJECT :  
**L.DHANBIDHIIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

DWG NO : S11 -57



Top to Bottom Detail D-24  
1:50

PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

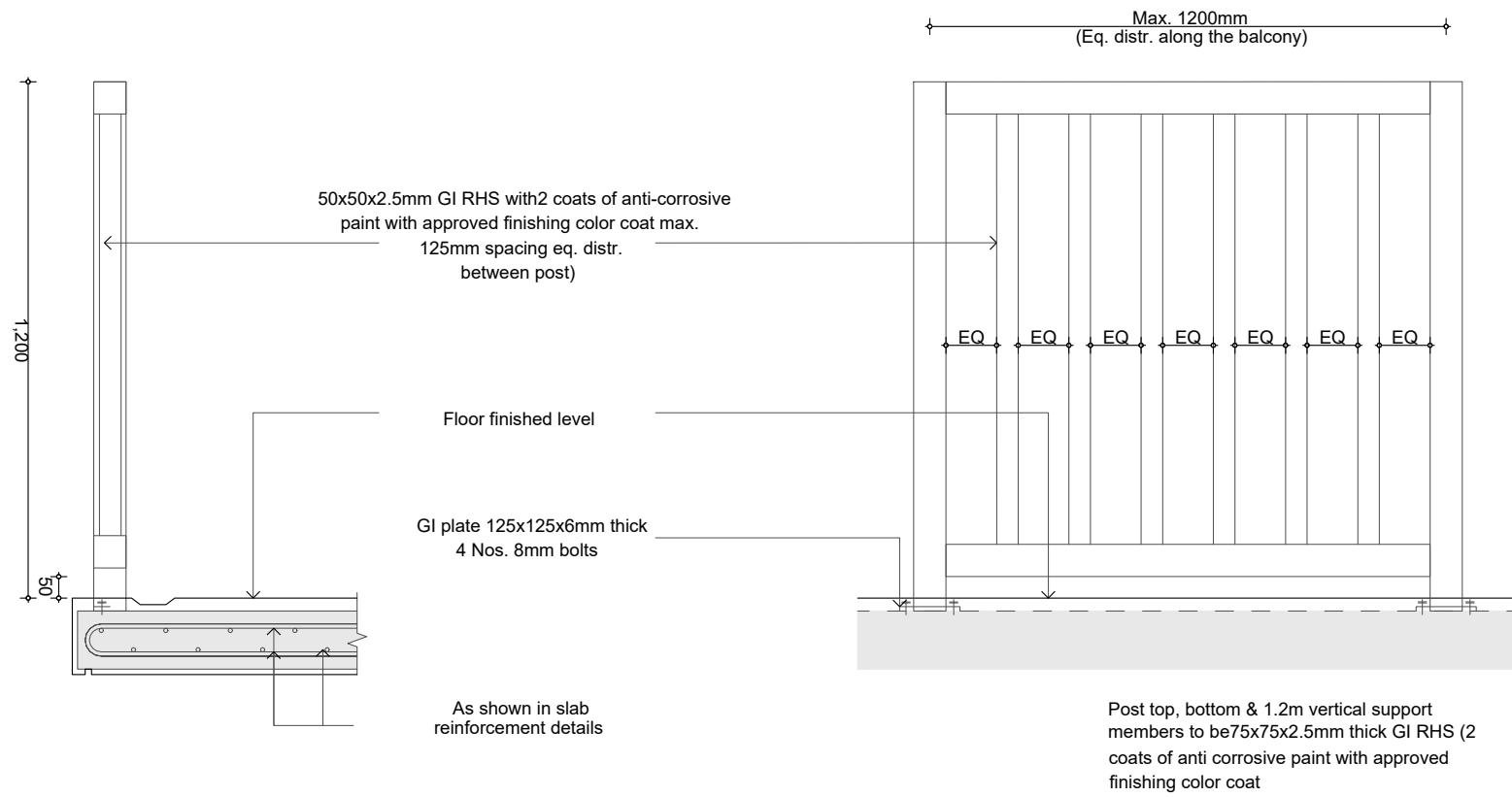
ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

CHECKED : \_\_\_\_\_

DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

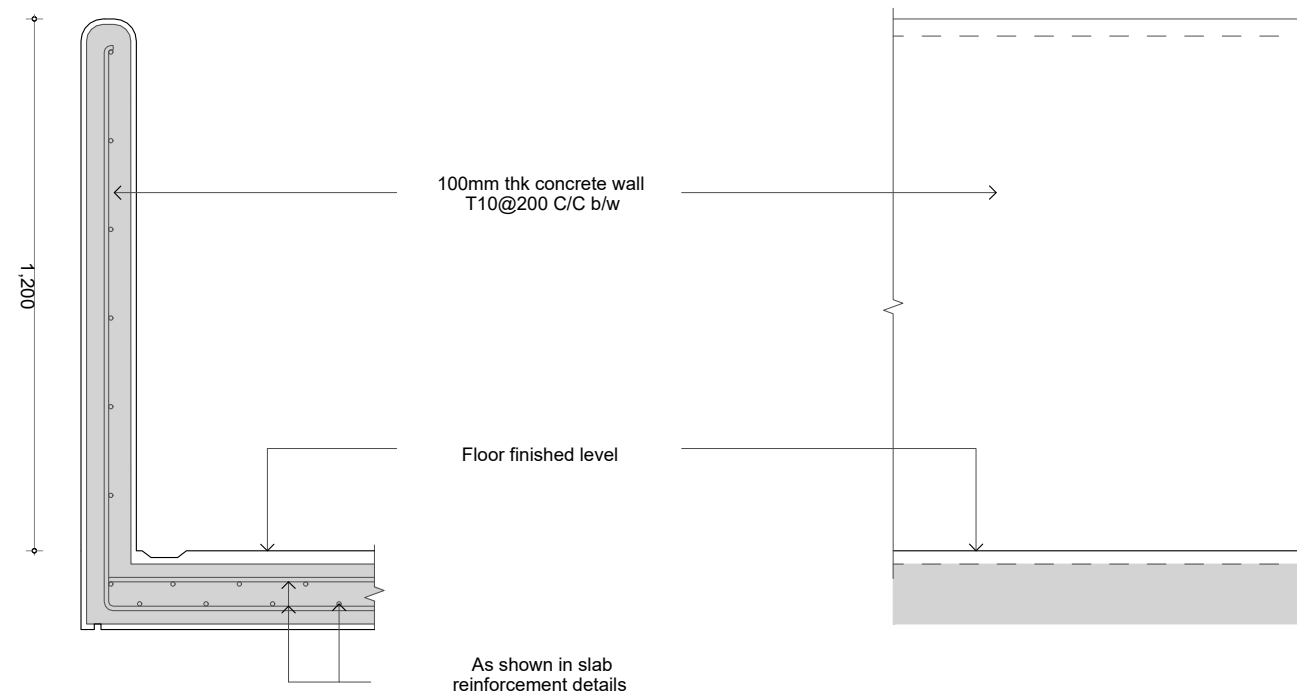


Sectional View

Elevation View

## Balcony 01 Railing Detail

1:20



Sectional View

Elevation View

## Balcony Detail 02

1:20



PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

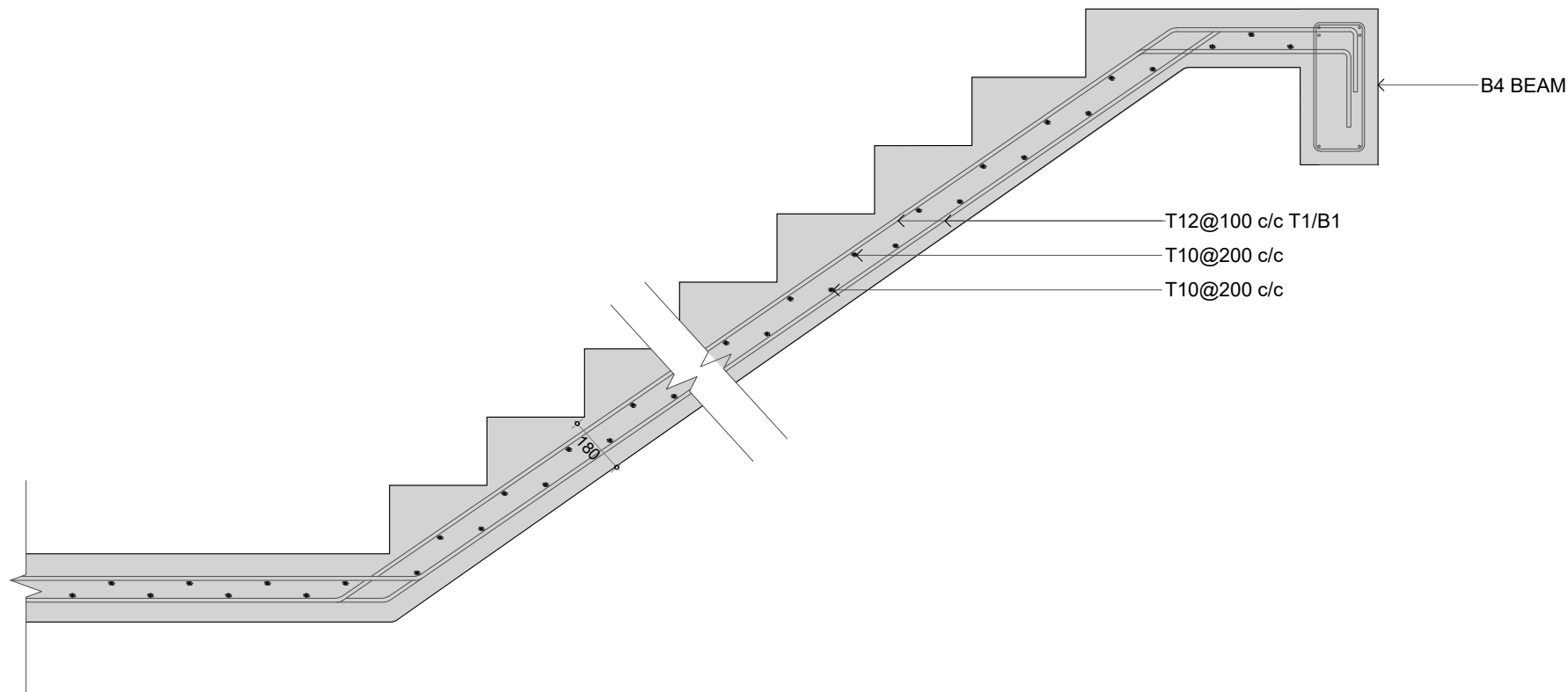
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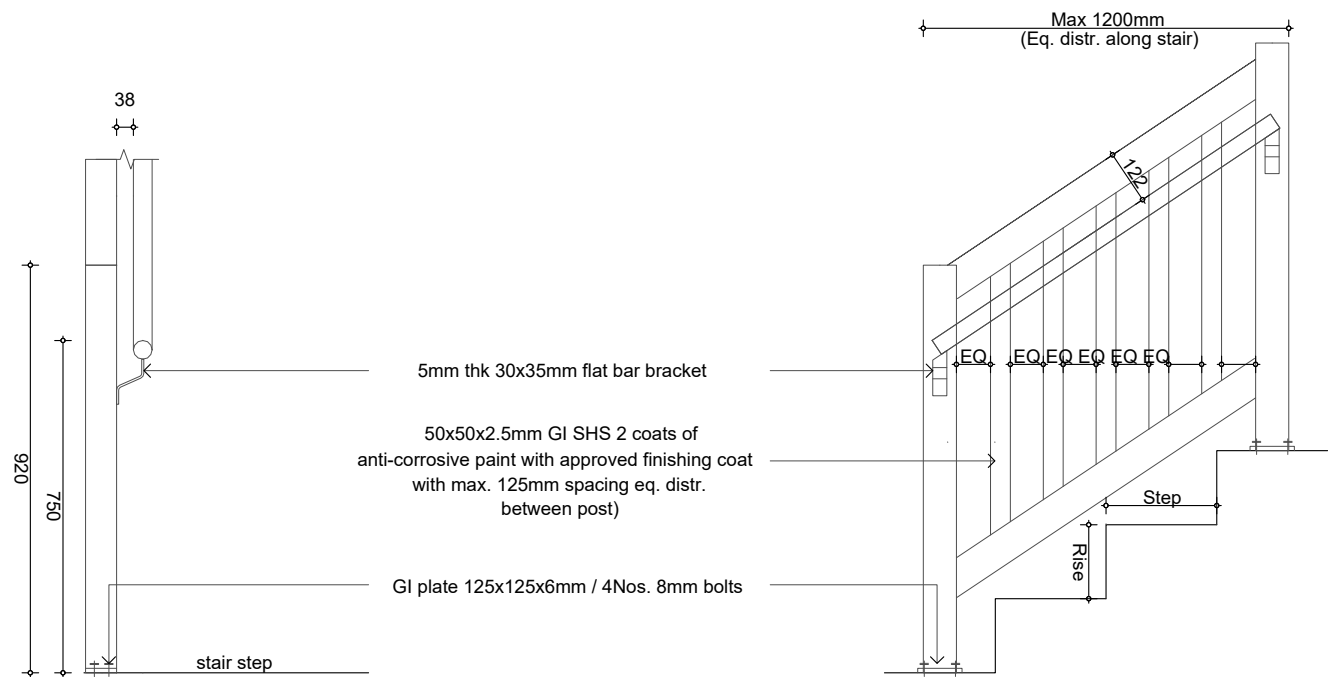
DATE : July 31, 2023

### AMMENDMENTS

Issue	Date	Description



Stair Reinforcement Detail  
1:20



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: 250mm
4. Raise: 167mm

Stair Railing Detail

PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :

L.DHANBIDHIIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

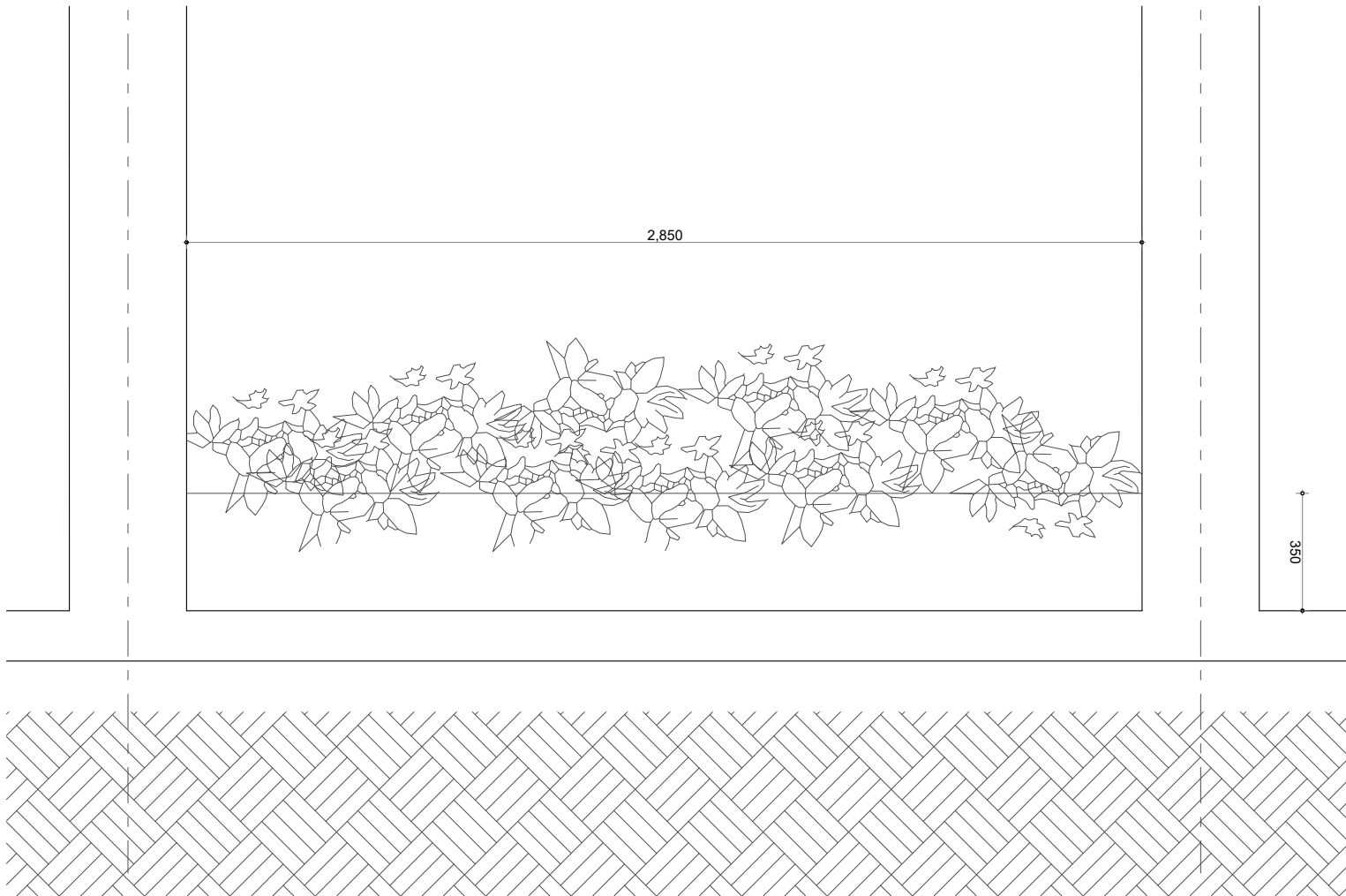
CHECKED :

DATE : July 31, 2023

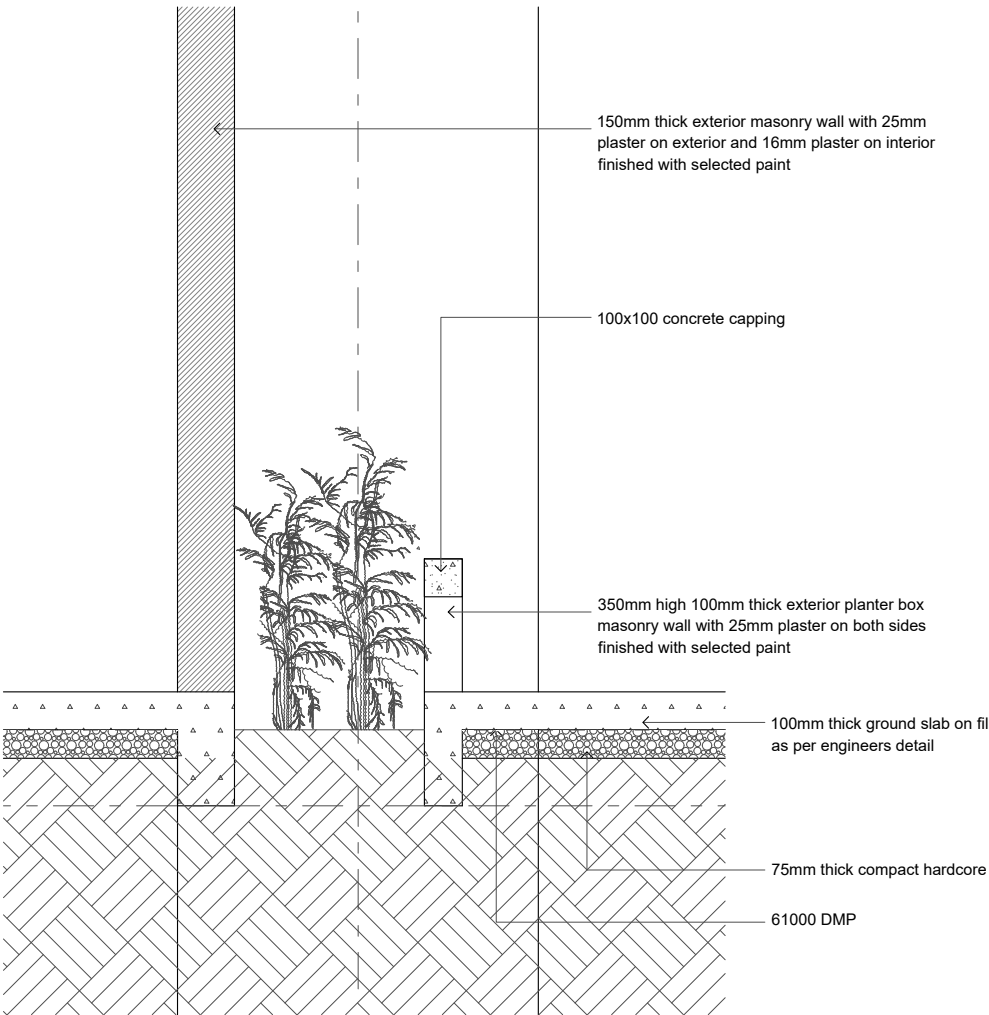
AMMENDMENTS		
Issue	Date	Description

DWG NO : S14

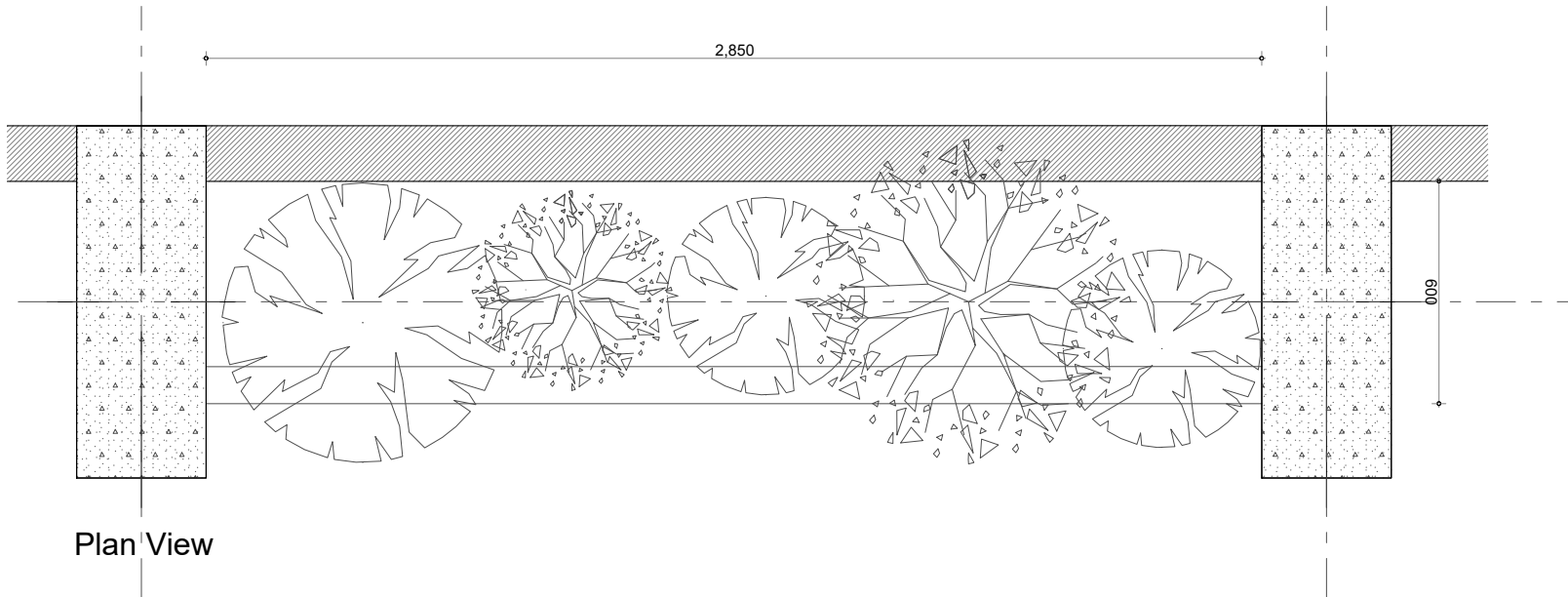
-57



Elevation View




Sectional View



Plan View

Planter box detail  
1:20

Planter Box Detail



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDHIIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

CHECKED : \_\_\_\_\_

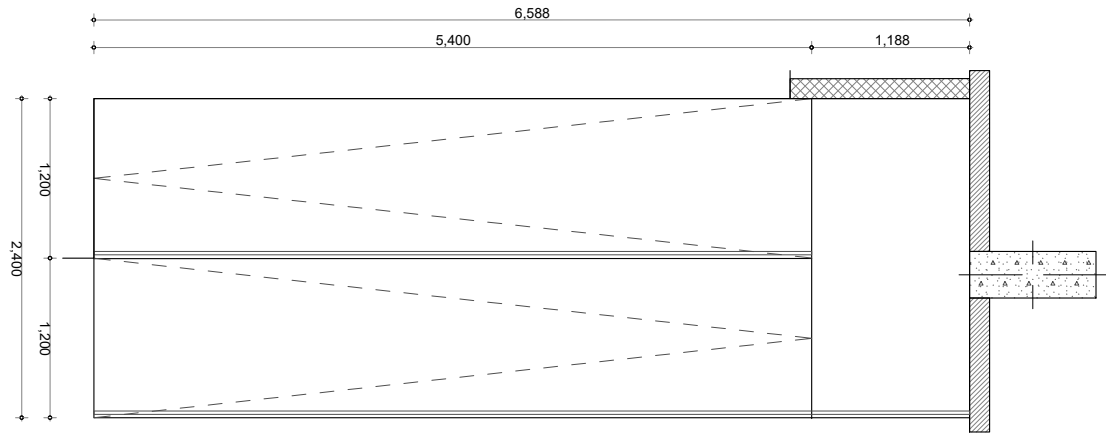
DATE : July 31, 2023

AMMENDMENTS

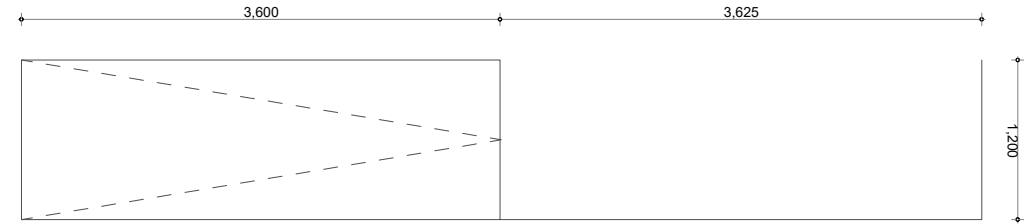
Issue	Date	Description

DWG NO : S15 -57

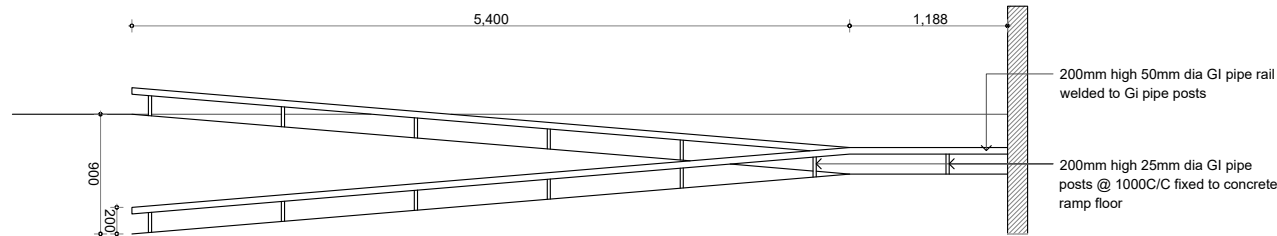




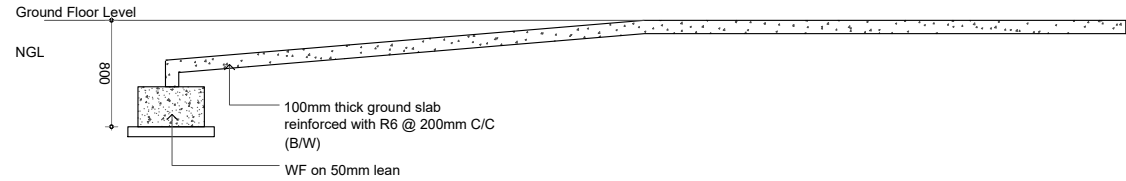
Stage Ramp Plan View



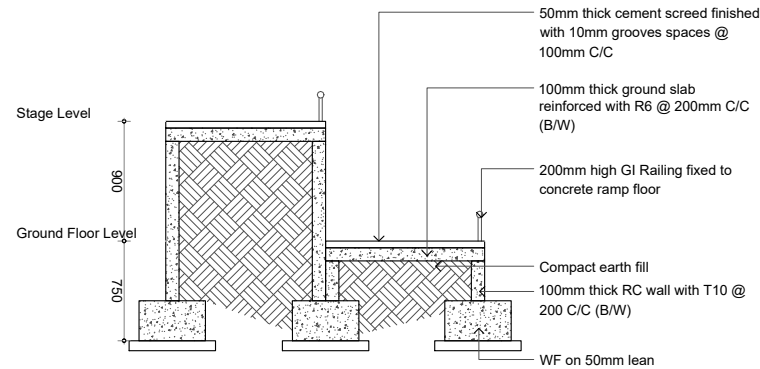
Ground Floor Ramp Plan View



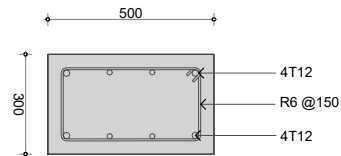
Stage Ramp Elevation View



Ground Floor Ramp Elevation View



Stage Ramp Section View



Wall Footing (WF) Detail  
 Scale = 1:20

Ramp Details

PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDHIIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

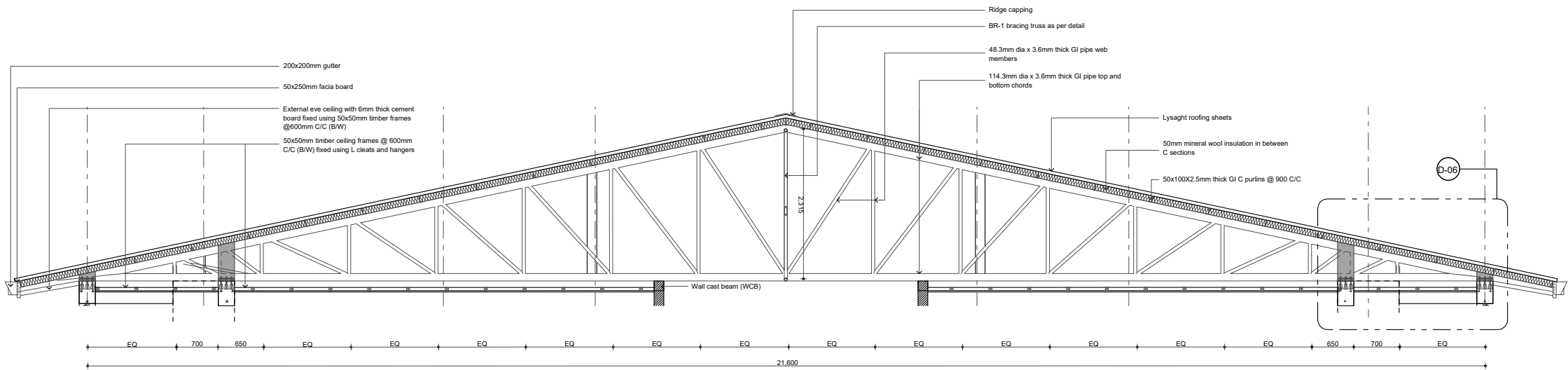
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CHECKED : \_\_\_\_\_

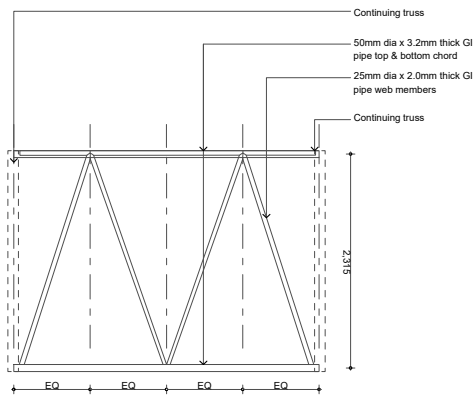
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

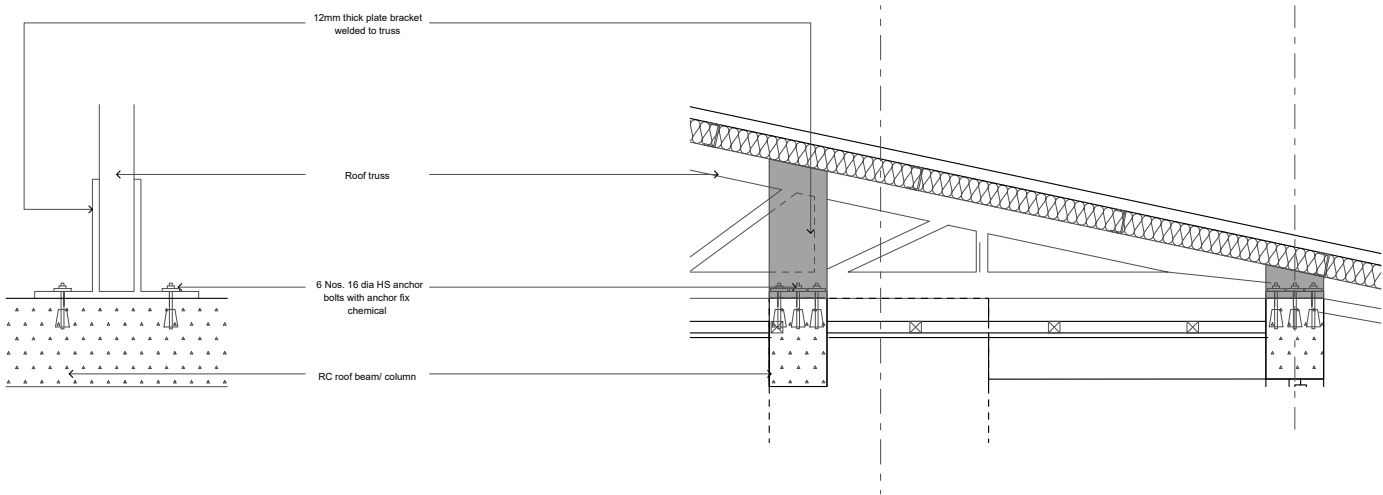
DWG NO : S16 -57



Truss Detail - TR1  
1:50




Bracing Truss Detail - BR1  
1:50



Truss blow up detail - D 06  
1:20

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



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :

L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF:

SCALE :

AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

CHECKED :

DATE :

July 31, 2023

AMMENDMENTS

Issue	Date	Description

DWG NO : S17

-57

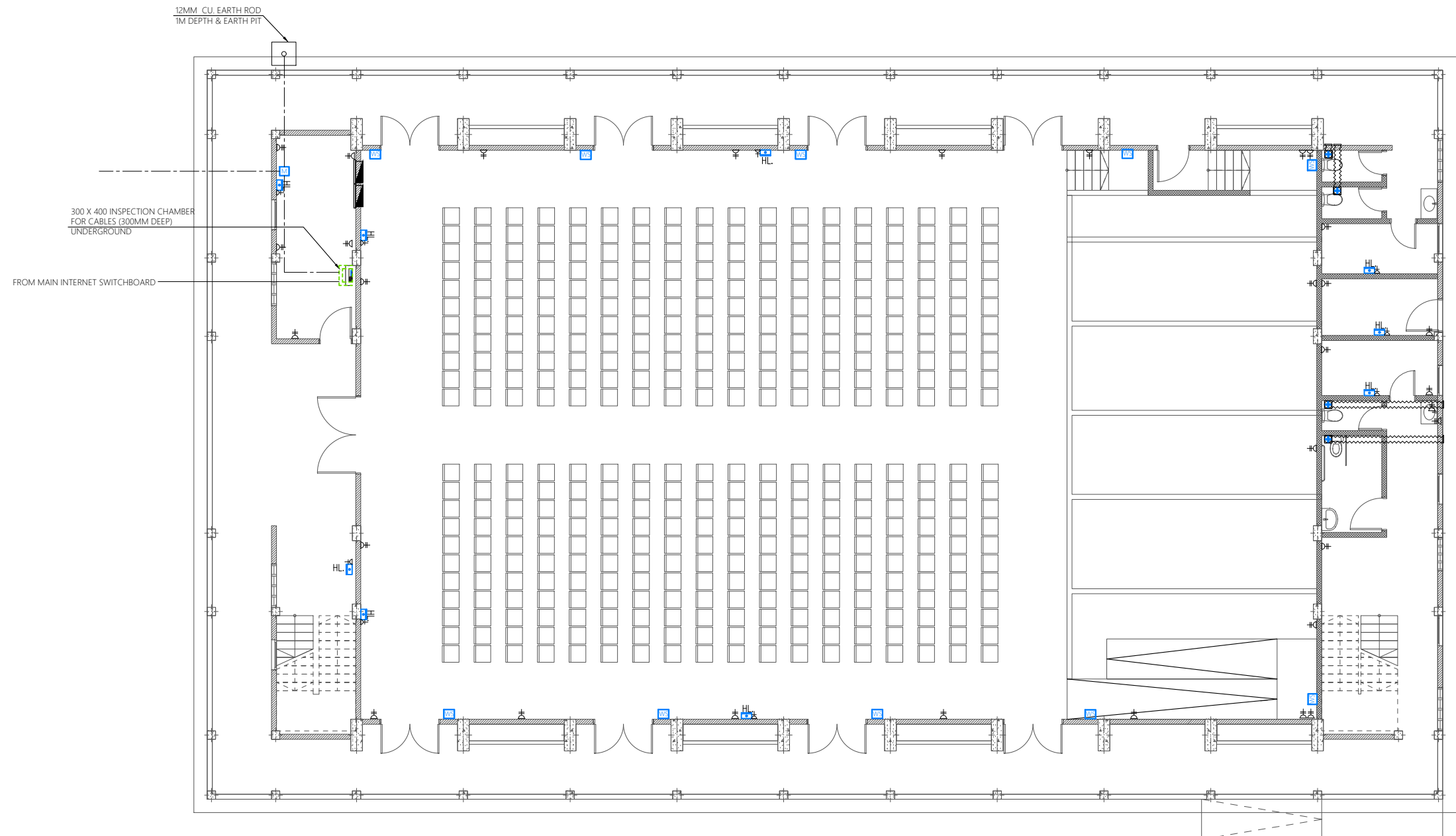
BUILDING SERVICES DRAWINGS OF  
PROPOSED 03 STOREY  
**MULTI PURPOSE HALL AND 4 CLASSROOM BLOCK,  
L. Dhanbidhoo**

Legend

- 13A Twin Socket
- 13A Power Socket
- Distribution Board
- HL. High Level
- Computer Network Outlet
- Emergency Light
- WS Wall Mounted Speaker
- M Electricity Meter
- 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



GROUND FLOOR - Power & AC Layout  
SCALE 1:150














PROJECT :  
L.DHANBIDHIHO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS




PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

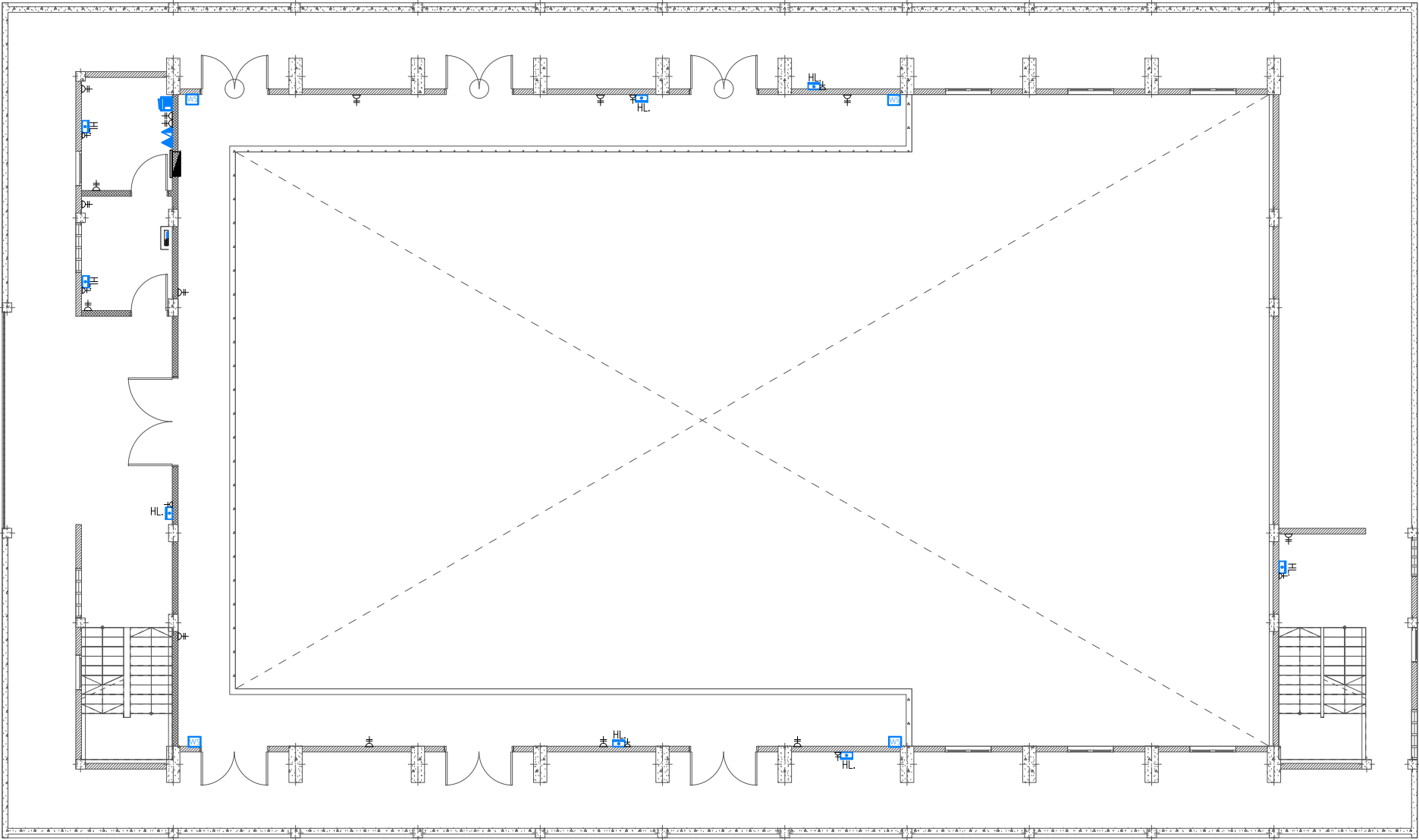
DWG NO : U01 -57

Legend

-  13A Twin Socket
-  13A Power Socket
-  Distribution Board
-  HL. High Level
-  Computer Network Outlet
-  Emergency Light
-  WS Wall Mounted Speaker
-  M Electricity Meter
-  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



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDHIIO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

CHECKED : \_\_\_\_\_













DATE : July 31, 2023




AMMENDMENTS

Issue	Date	Description

DWG NO : U02 -57

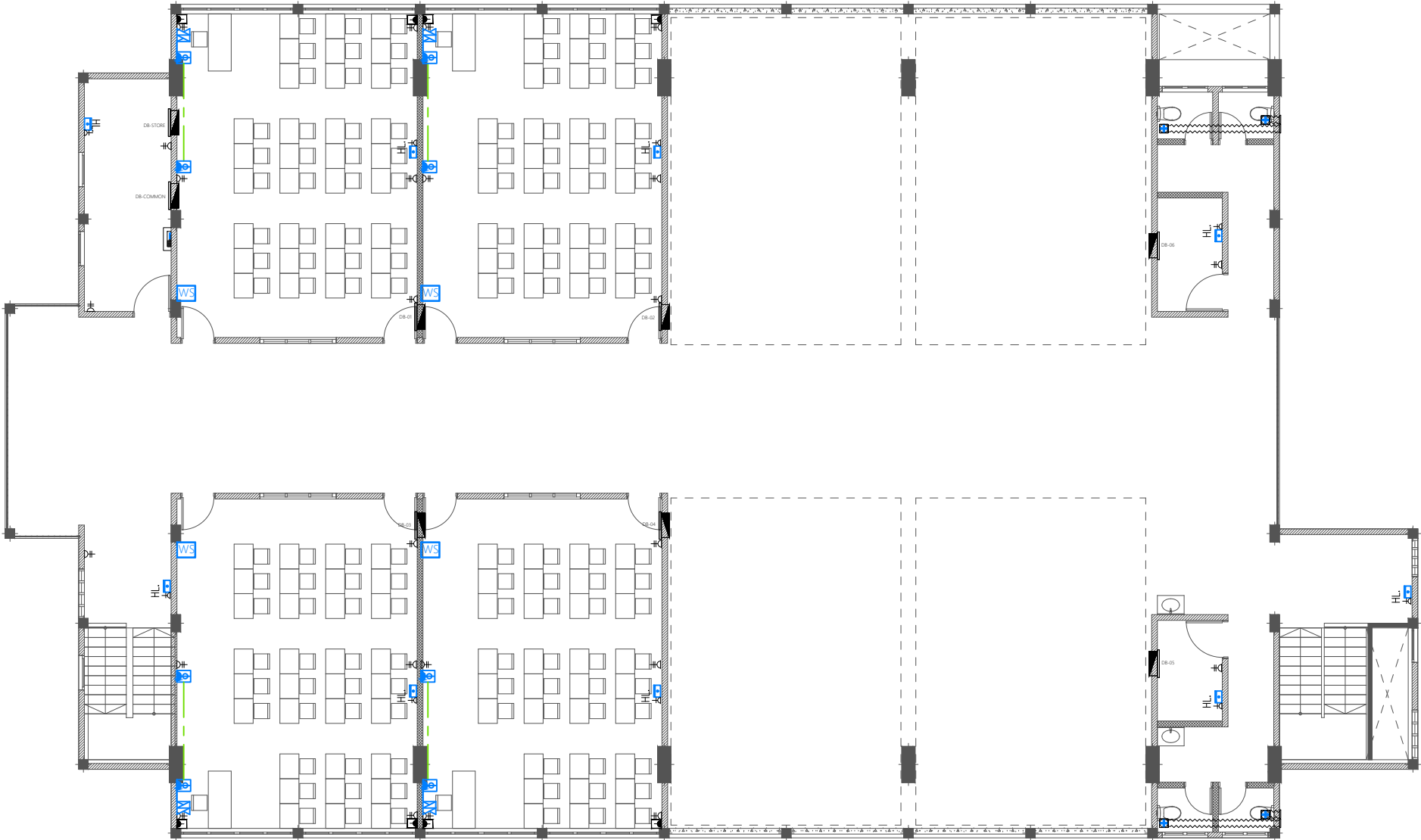
Legend

-  13A Twin Socket
-  13A Power Socket
-  15A Switched Socket @ H.L.
-  Distribution Board
-  HL. High Level
-  Computer Network Outlet
-  Emergency Light
-  WS Wall Mounted Speaker
-  M Electricity Meter
-  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 & ACV LAYOUT  
SCALE 1:150



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_












CHECKED : \_\_\_\_\_

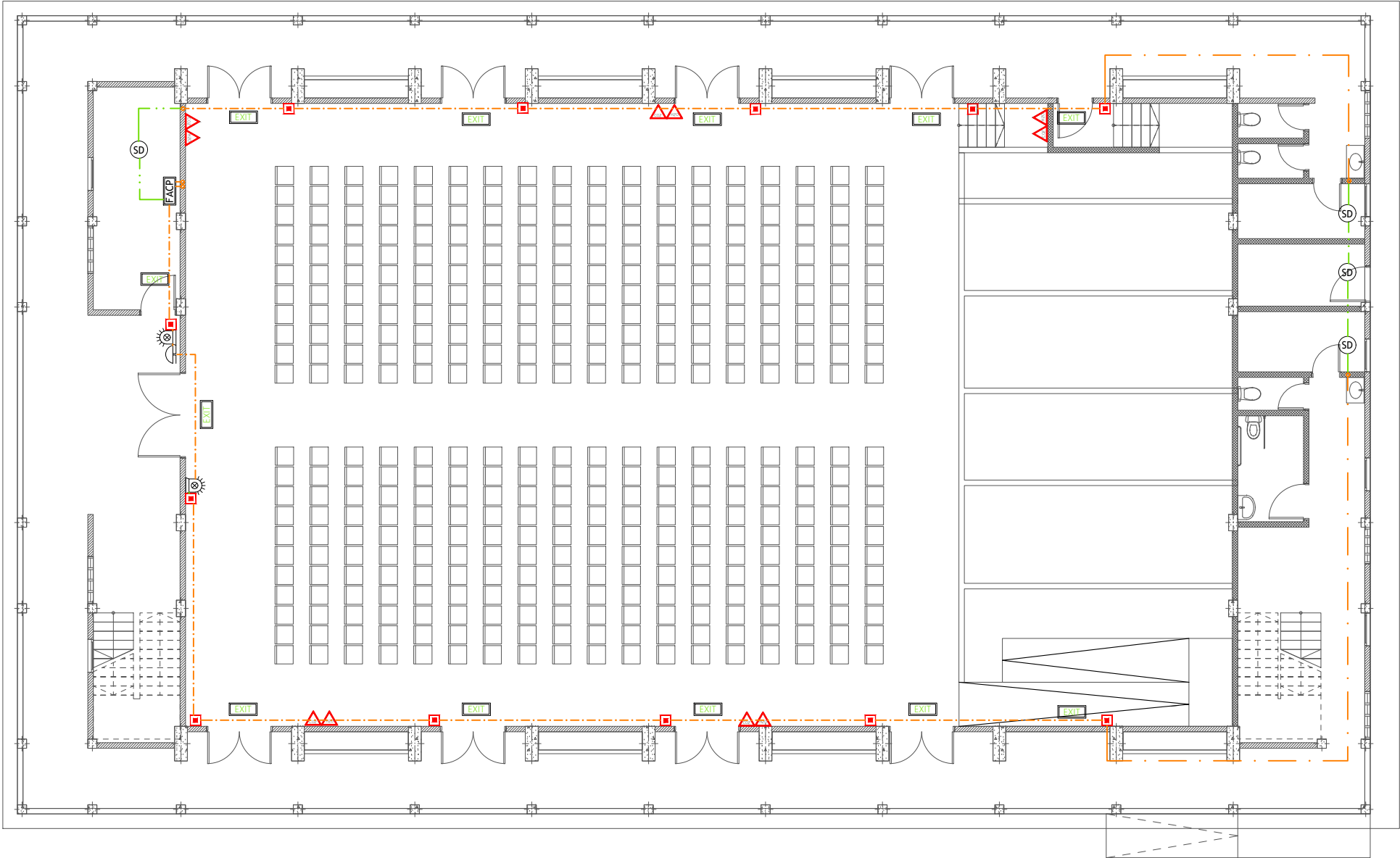
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

DWG NO : U03 -57

Legend

-  CO<sub>2</sub> Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  DCP Extinguisher (load: 6kg) In Polycarbonate Enclosure
-  H<sub>2</sub>O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point (At 1200mm from F.F.L.)
-  Smoke Detector
-  Beacon
-  Sounder Bell
-  2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Running Underground)
-  2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Above False Ceiling or Through Slab)
-  Fire Alarm Control Panel
-  Exit Sign



**GROUND FLOOR - FDP Layout**

SCALE 1:150





PROJECT :  
**L.DHANBIDIHO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**


PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023


AMMENDMENTS		
Issue	Date	Description


Legend


- 


CO<sub>2</sub> Extinguisher (load: 2kg) In Polycarbonate Enclosure
- 


DCP Extinguisher (load: 6kg) In Polycarbonate Enclosure
- 


H<sub>2</sub>O Extinguisher (load: 9L) In Polycarbonate Enclosure
- 


Manual Call Point (At 1200mm from F.F.L.)
- 


Smoke Detector
- 

Beacon
- 

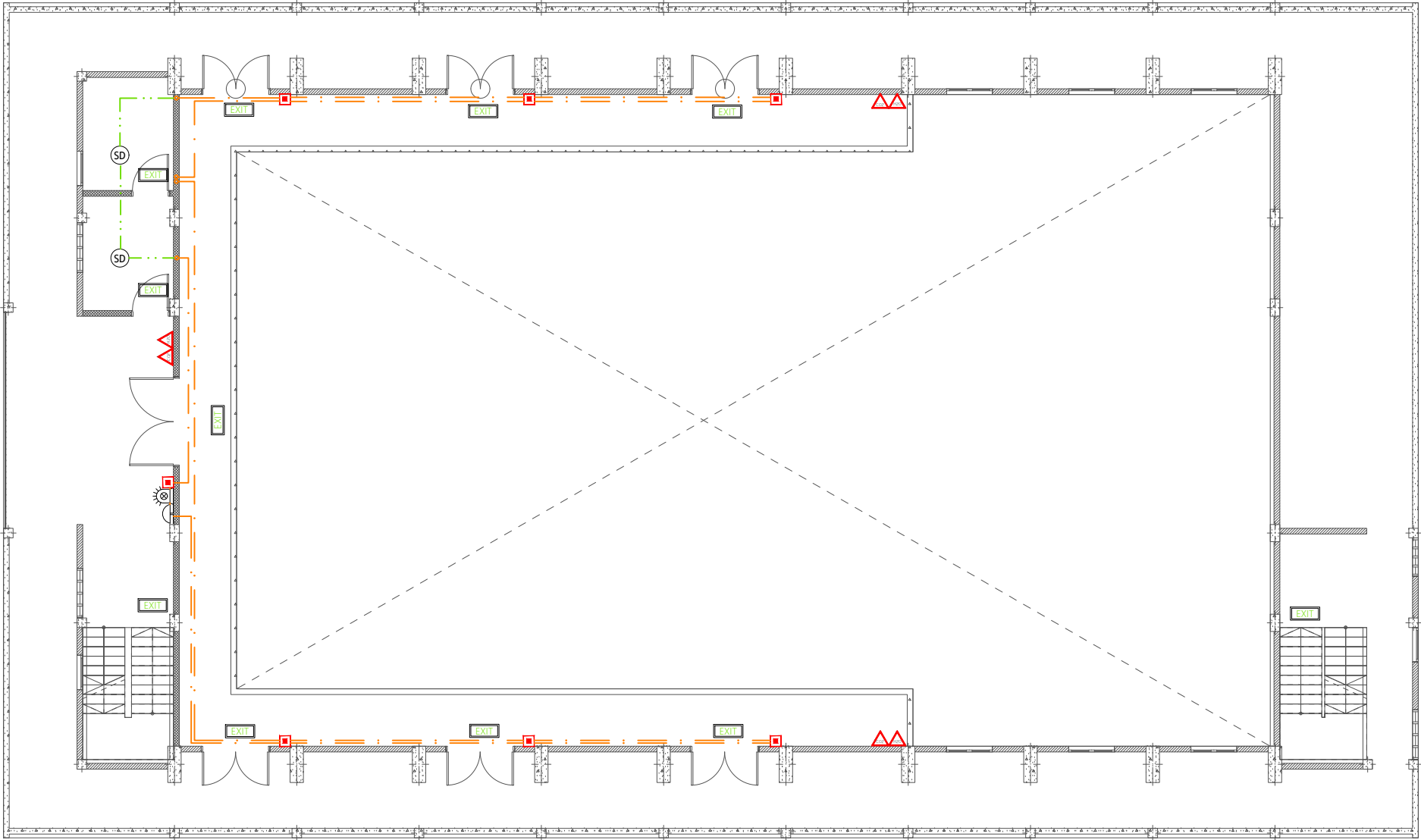
Sounder Bell
- 

2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits  
(Running Underground)
- 

2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits  
(Above False Ceiling or Through Slab)
- 

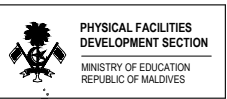
FACP Fire Alarm Control Panel
- 

EXIT Exit Sign



FIRST FLOOR - FDP Layout

SCALE 1:150














PROJECT :  
L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

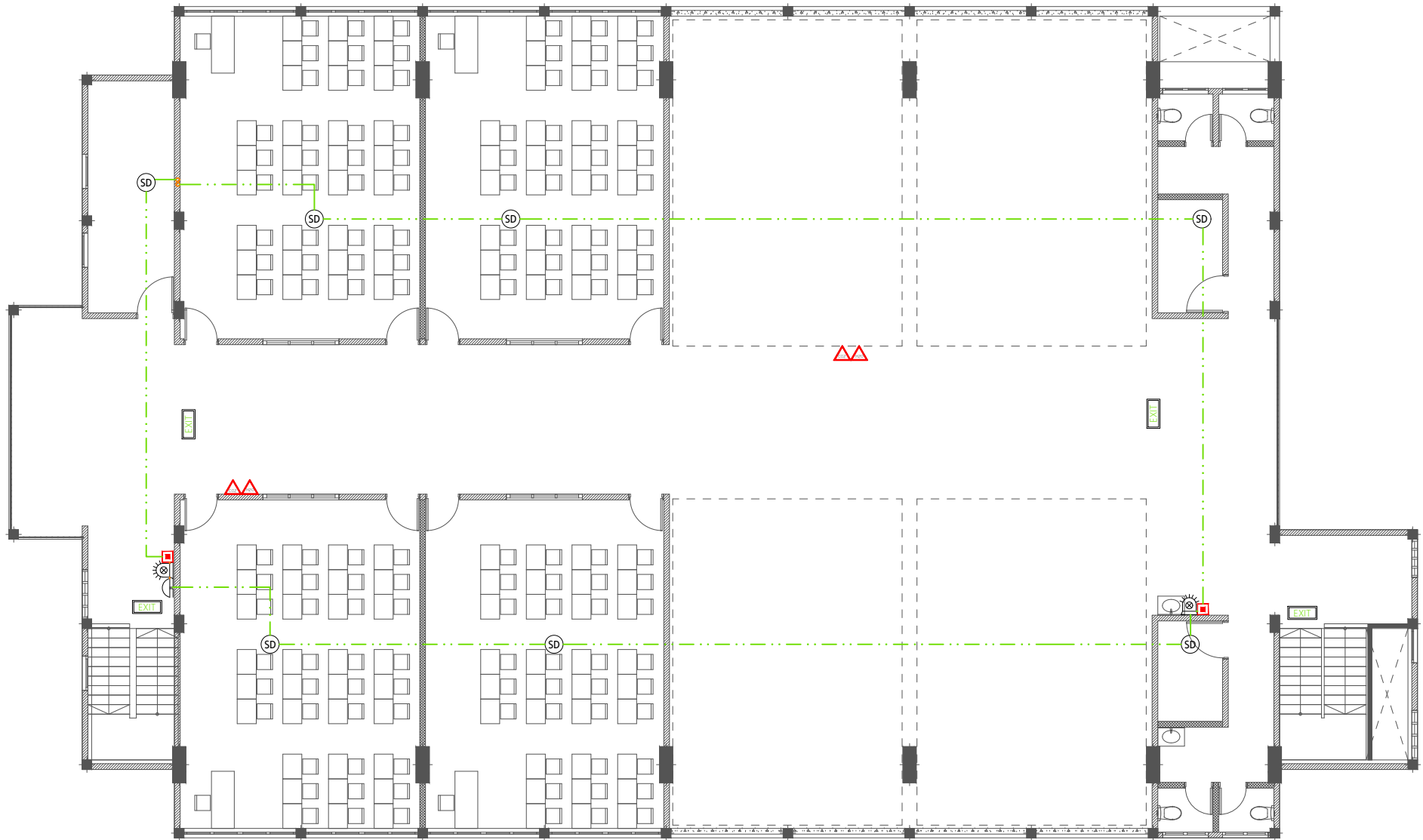
PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

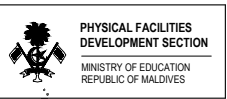


Legend

-  CO<sub>2</sub> Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  DCP Extinguisher (load: 6kg) In Polycarbonate Enclosure
-  H<sub>2</sub>O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point (At 1200mm from F.F.L.)
-  Smoke Detector
-  Beacon
-  Sounder Bell
-  2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Running Underground)
-  2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Above False Ceiling or Through Slab)
-  Fire Alarm Control Panel
-  Exit Sign



**SECOND FLOOR - FDP LAYOUT**  
SCALE 1:150




PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**


PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023


AMMENDMENTS		
Issue	Date	Description


DWG NO : U06 -57


Legend


 Ceiling Light (18W)


 Ceiling Light (12W)


 Recessed Ceiling Light (12W)


 Ceiling Down Light (18W) - Weather Proof


 Weather Proof Wall Light IP55 (12W)

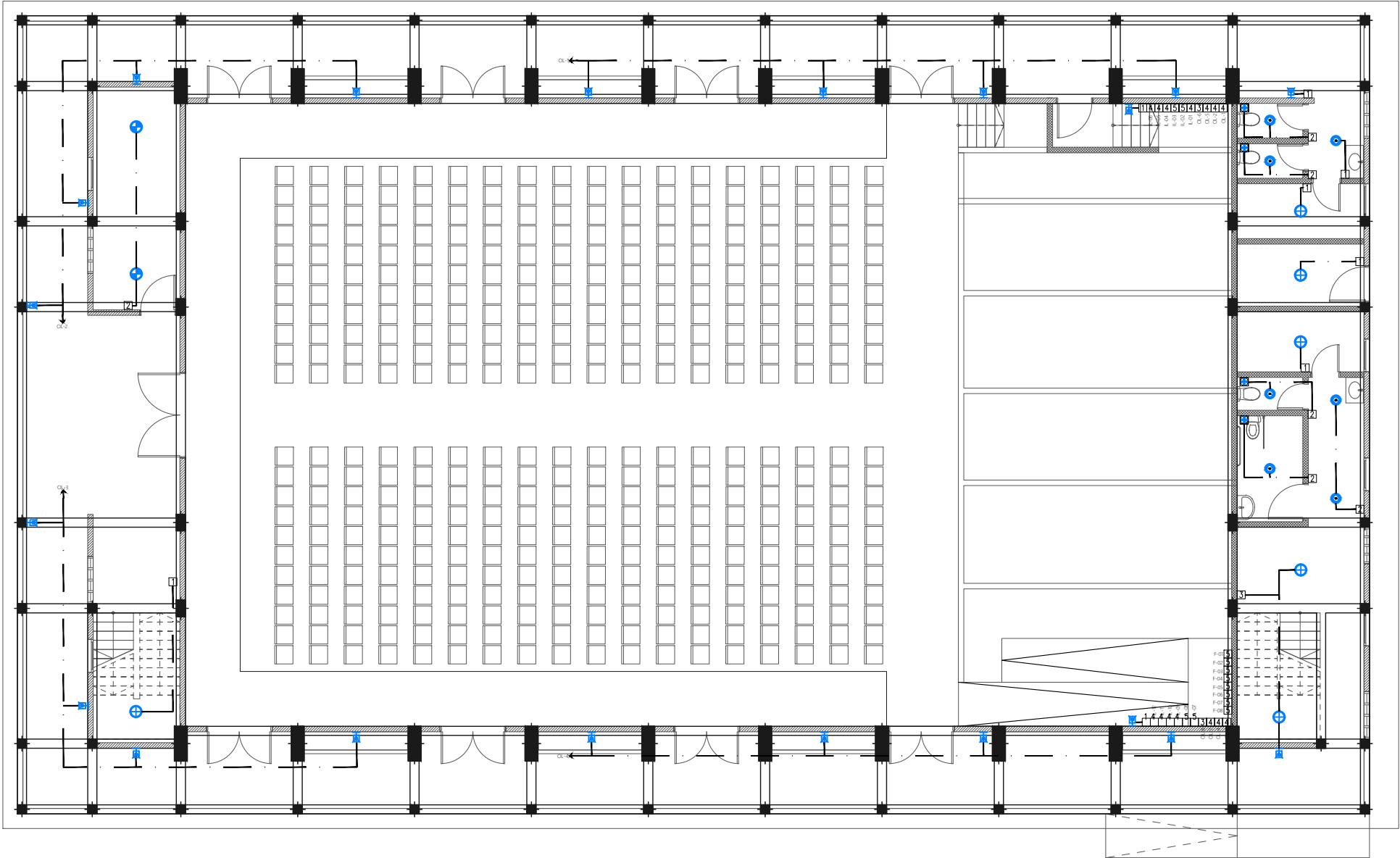
 3 Ft Led Tube Light

 2 x 50W PLL Tube Light

 Light and Fan Switch (1 Gang - 5 Gang)


 42" To 48" Ceiling Fan

 Ceiling Mounted Exhaust Fan 90m3/hr



GROUND FLOOR - Lighting Plan

SCALE 1:150



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :

L.DHANBIDHIHO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF:

SCALE :

AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

CHECKED :

DATE :

July 31, 2023

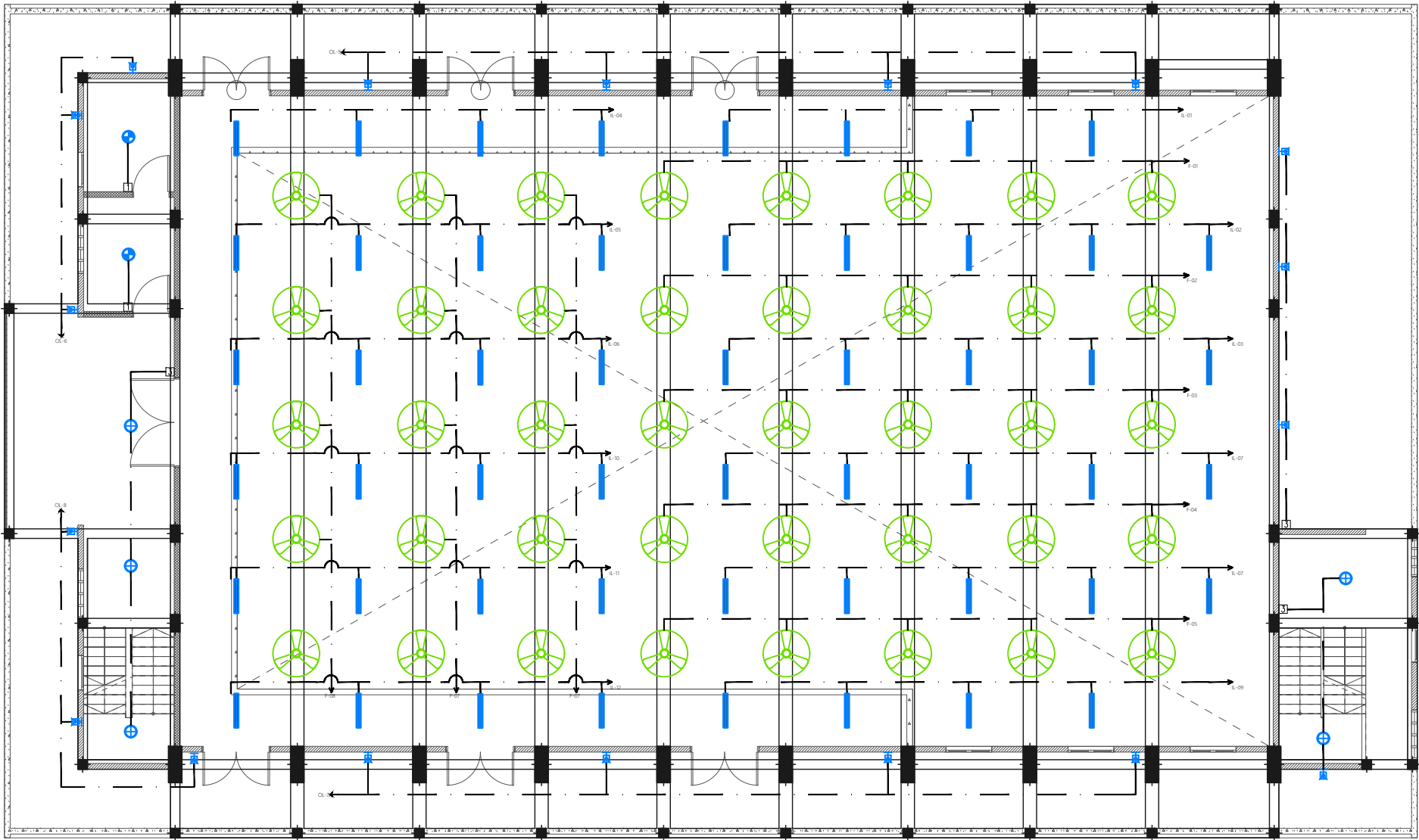
AMMENDMENTS

Issue	Date	Description

DWG NO : U07

-57

- Legend
- Ceiling Light (18W)
  - Ceiling Light (12W)
  - Recessed Ceiling Light (12W)
  - Ceiling Down Light (18W) - Weather Proof
  - Weather Proof Wall Light IP55 (12W)
  - 3 Ft Led Tube Light
  - 2 x 50W PLL Tube Light
  - Light and Fan Switch (1 Gang - 5 Gang)
  - 42" To 48" Ceiling Fan
  - Ceiling Mounted Exhaust Fan 90m3/hr



FIRST FLOOR - Lighting Layout

SCALE 1:150



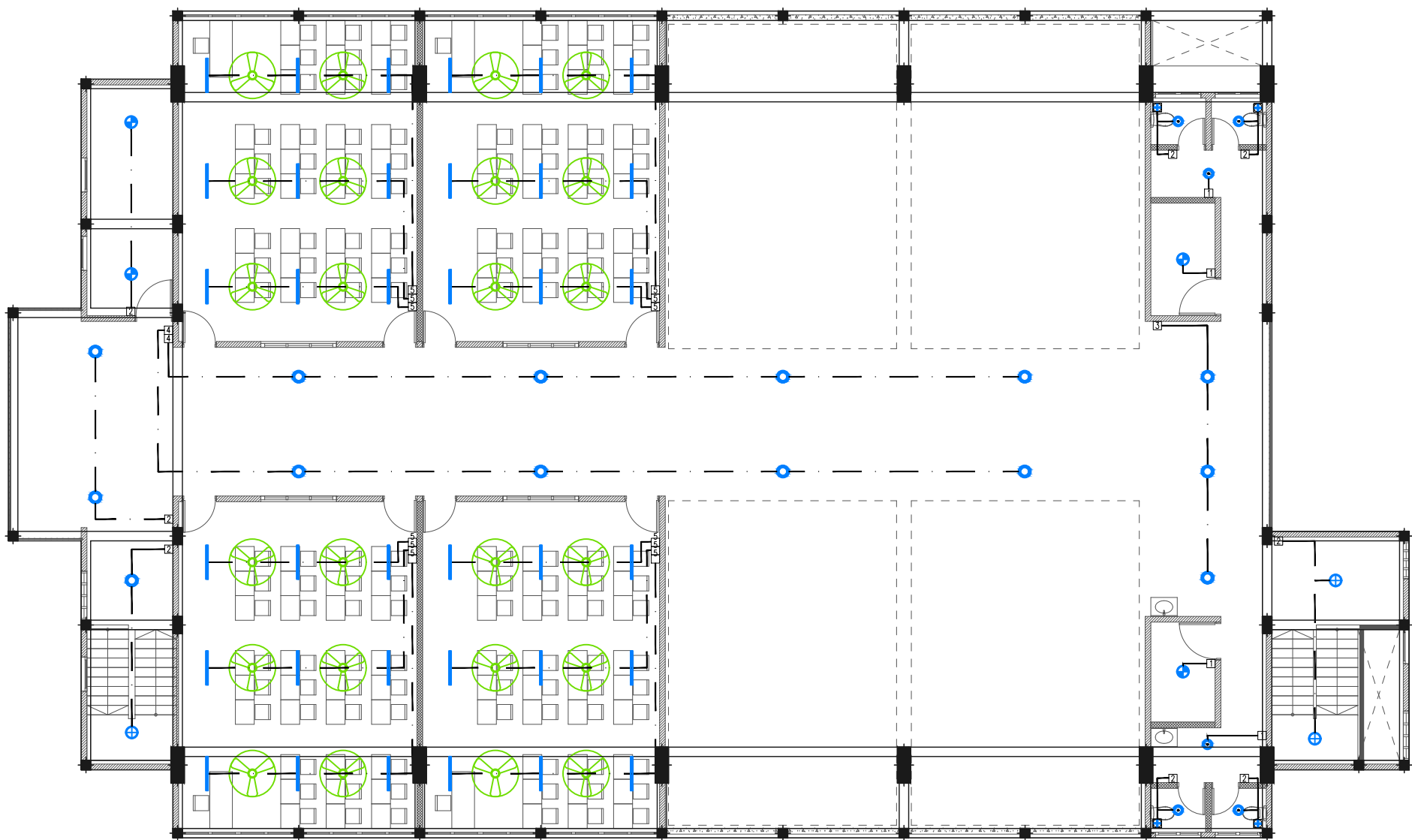
PROJECT :  
L.DHANBITHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

DWG NO : U08 -57

- Legend
- Ceiling Light (18W)
  - Ceiling Light (12W)
  - Recessed Ceiling Light (12W)
  - Ceiling Down Light (18W) - Weather Proof
  - Weather Proof Wall Light IP55 (12W)
  - 3 Ft Led Tube Light
  - 2 x 50W PLL Tube Light
  - 1 2 3 4 5 Light and Fan Switch (1 Gang - 5 Gang)
  - 42" To 48" Ceiling Fan
  - Ceiling Mounted Exhaust Fan 90m3/hr



SECOND FLOOR - Lighting Layout

SCALE 1:150



PROJECT :  
L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

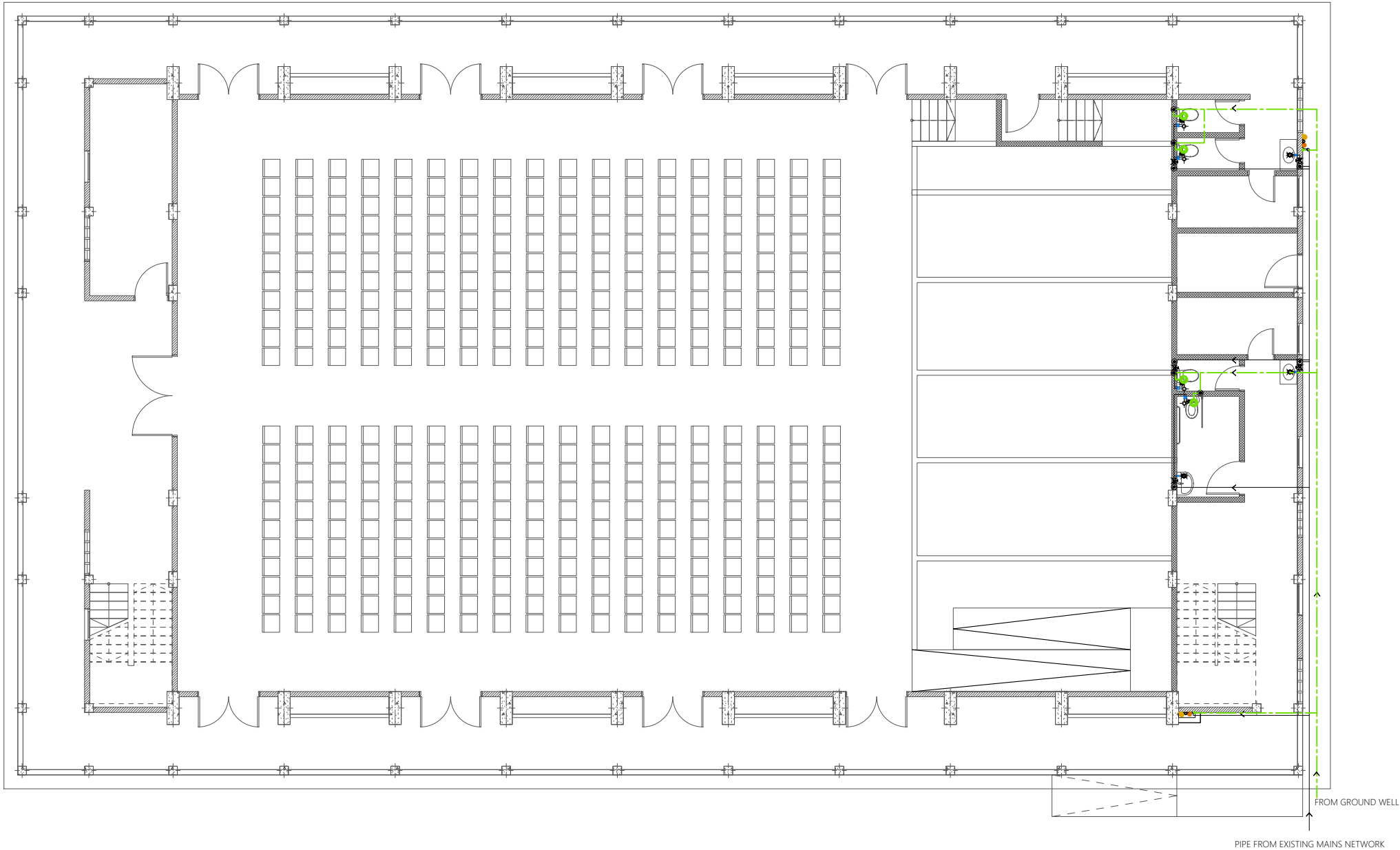
DWG NO : U09 -57

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



**GROUND FLOOR - Plumbing Layout**  
SCALE 1:150



PROJECT :  
**L.DHANBITHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

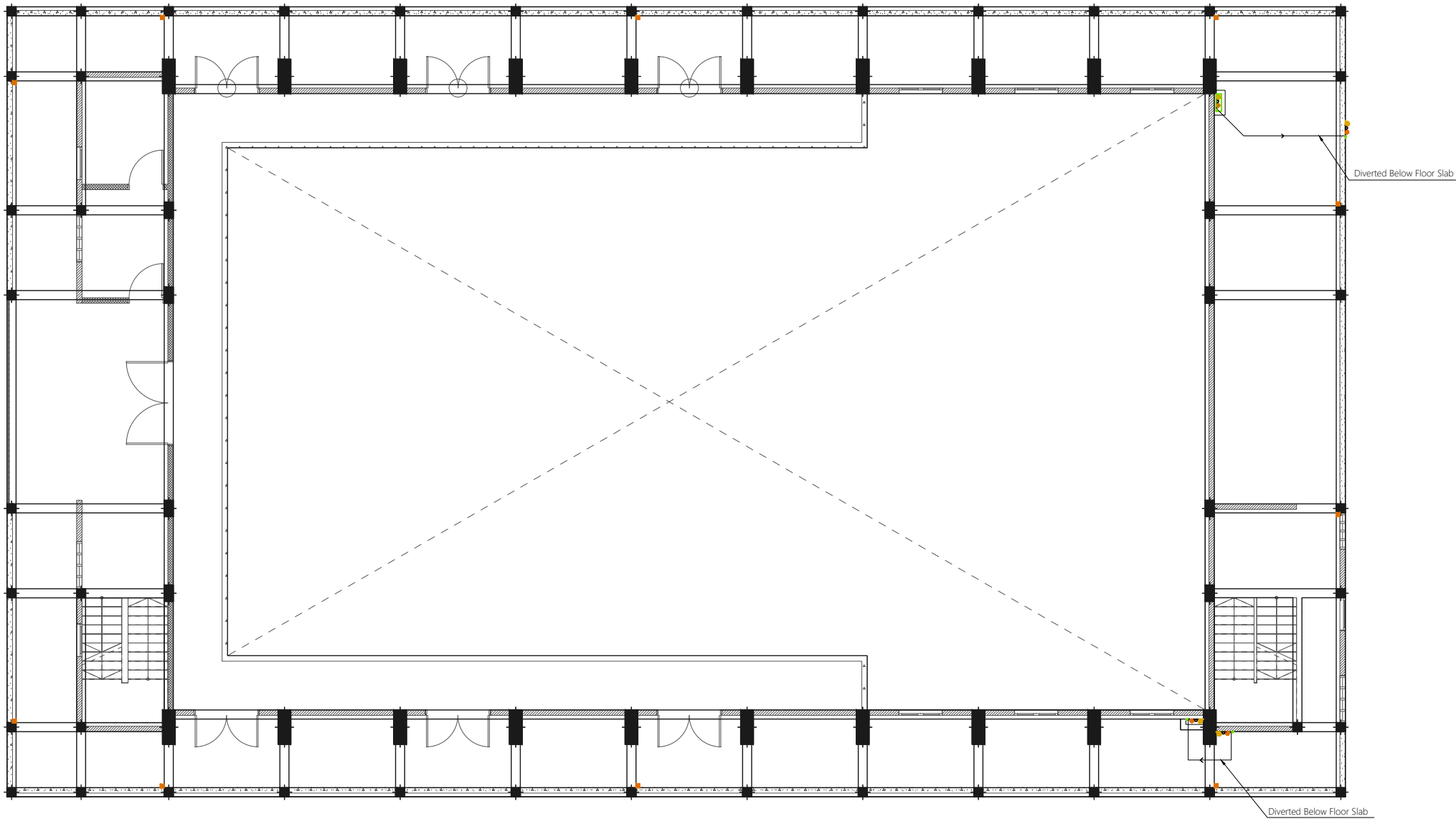
DWG NO : U10 -57

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



**FIRST FLOOR - Plumbing Layout**  
SCALE 1:150



PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

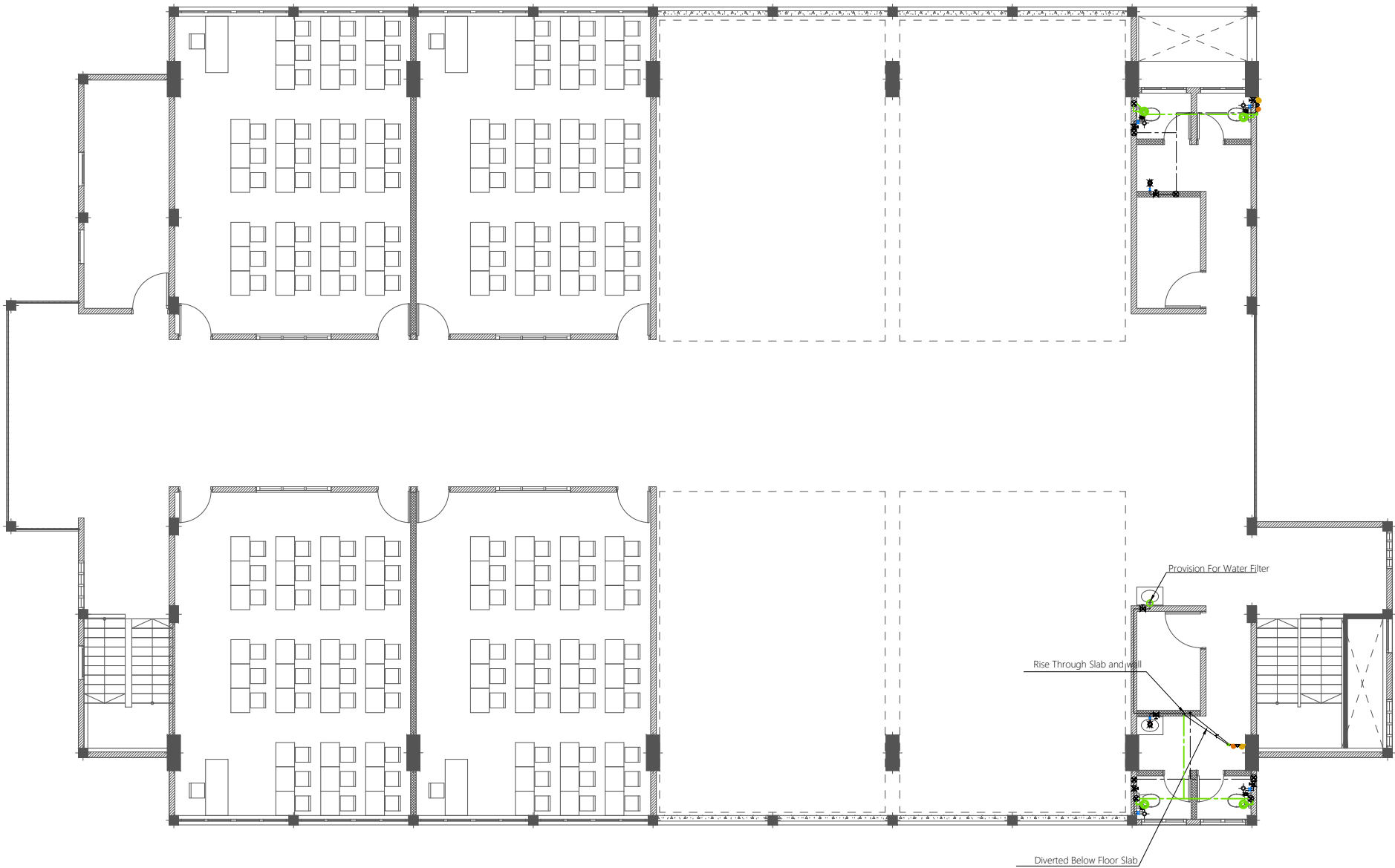
AMMENDMENTS		
Issue	Date	Description

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
- Sll Hot Water Pipes Should Be PPR



**SECOND FLOOR - Plumbing Layout**  
SCALE 1:150



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDIHO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_


CHECKED : \_\_\_\_\_


DATE : July 31, 2023


AMMENDMENTS		
Issue	Date	Description


DWG NO : U12 -57


Legend


 Floor Drain


 Floor Gully

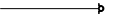
 110Ø Soil Pipe (uPVC Pipe)


 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

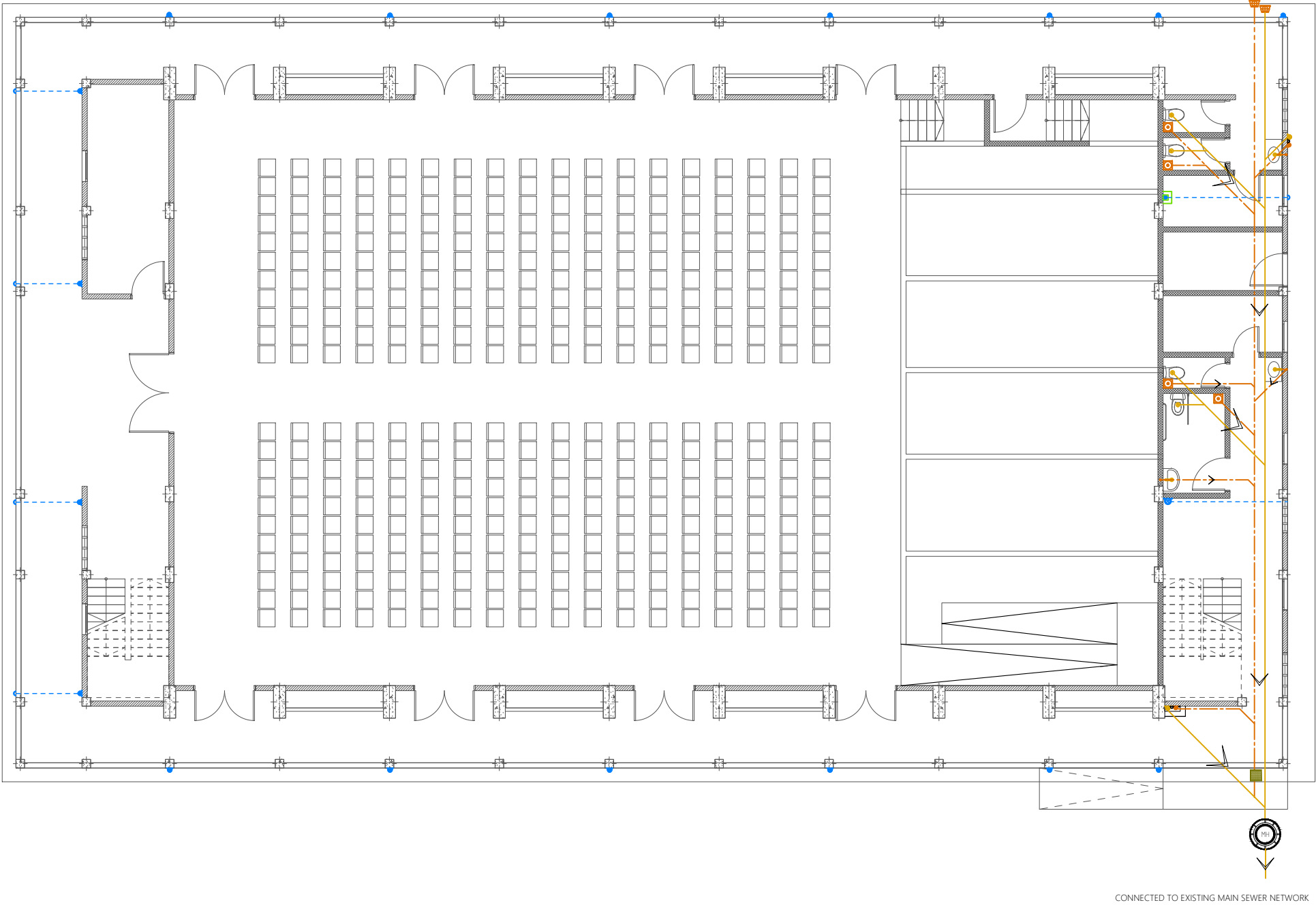
 Manhole

 Gully Trap

Notes: -


-All Drainage Pipes Should Have At A Slope Of 1/150

-All Floor Drains Should Have 'P' Traps



GROUND FLOOR - Drainage Layout

SCALE 1:150



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :

L.DHANBIDHI00 SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF:

SCALE :

AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

CHECKED :

DATE :

July 31, 2023

AMMENDMENTS

Issue	Date	Description

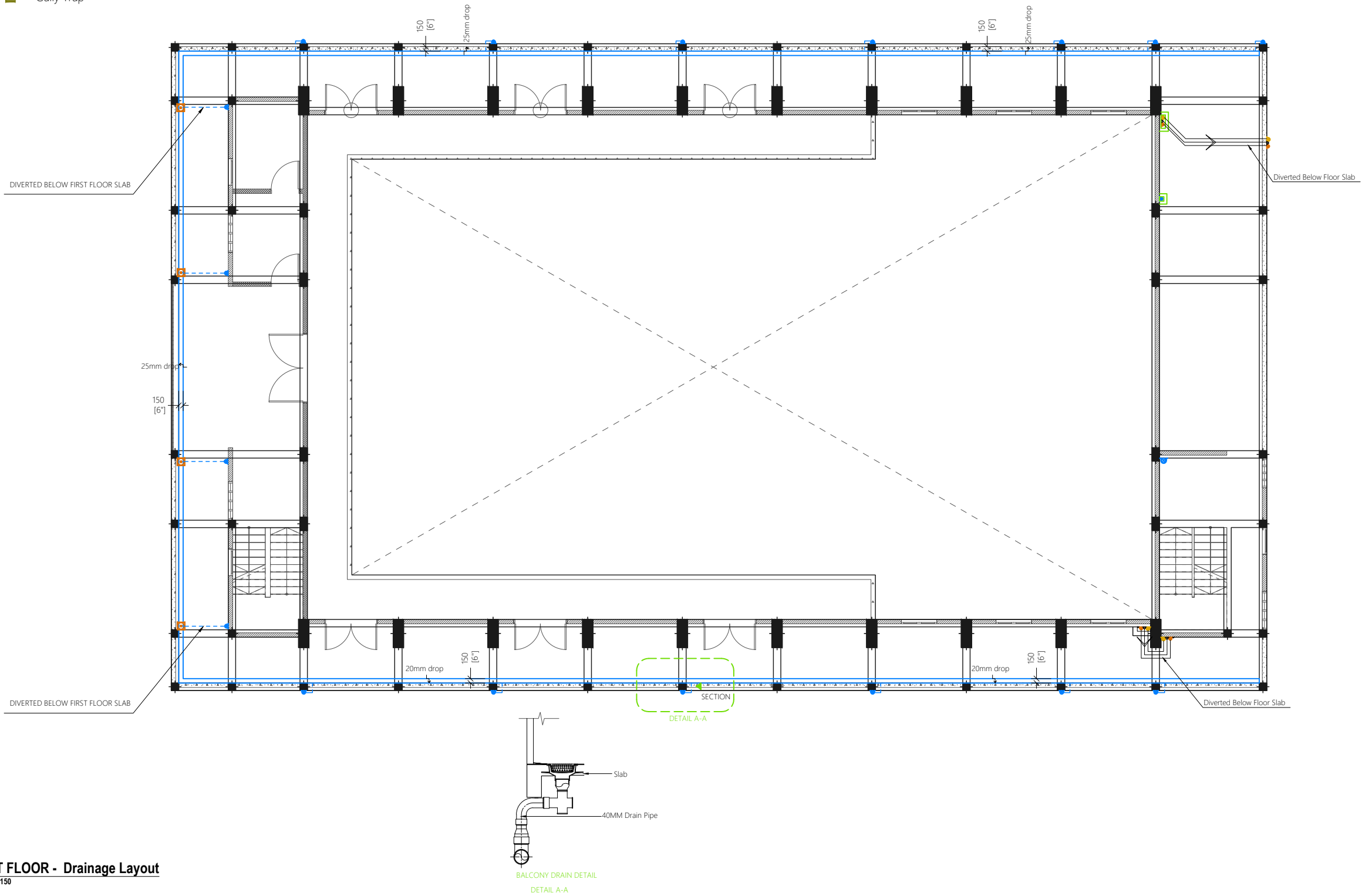
DWG NO : U13

-57




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



FIRST FLOOR - Drainage Layout  
SCALE 1:150



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_

SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_

ENGINEER : \_\_\_\_\_

DRAWN : \_\_\_\_\_

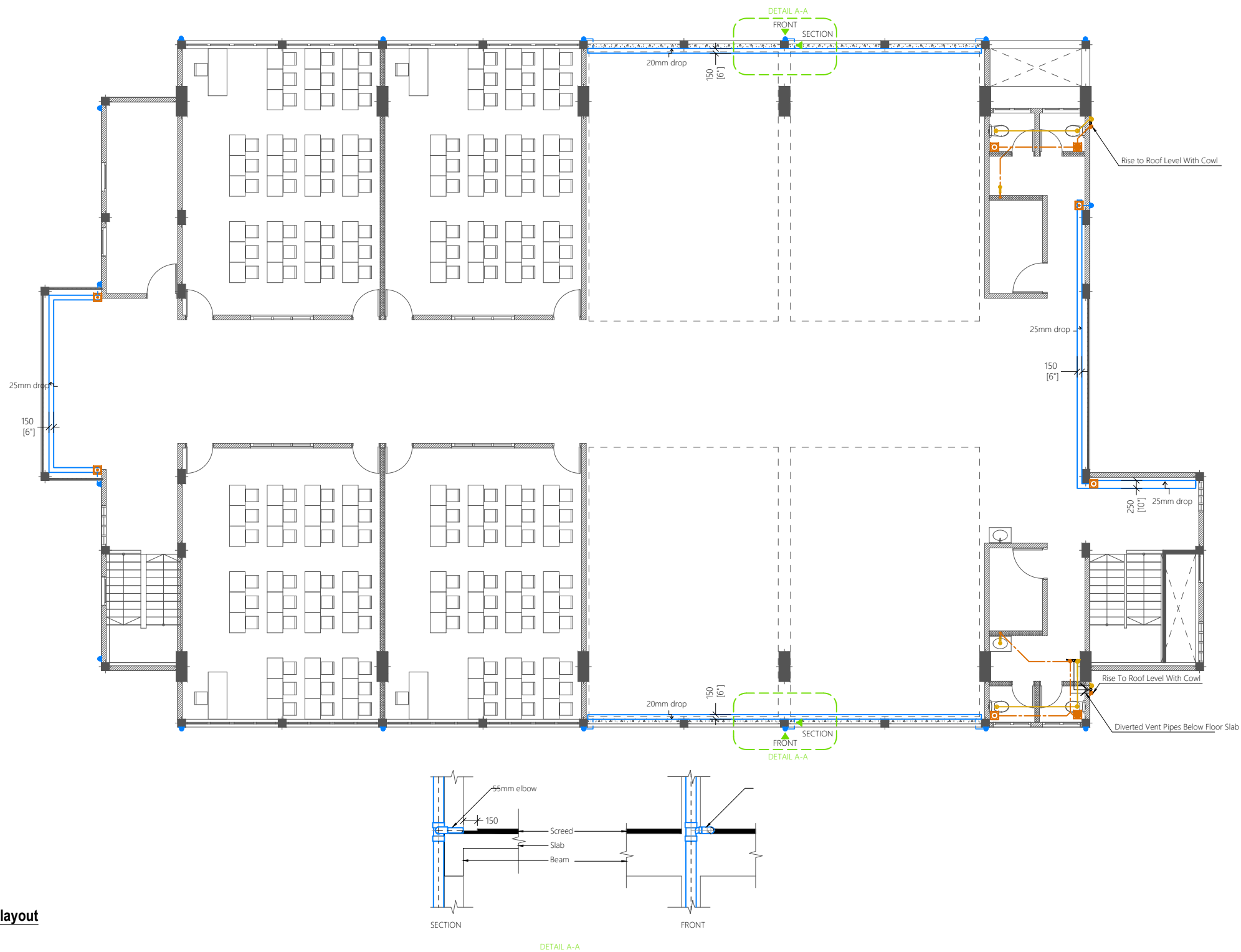
CHECKED : \_\_\_\_\_

DATE : July 31, 2023

AMMENDMENTS		
Issue	Date	Description

DWG NO : U14 -57

- 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



**SECOND FLOOR - Drainage layout**  
SCALE 1:150





PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**


PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023


AMMENDMENTS		
Issue	Date	Description


DWG NO : U15 -57


- Legend
-  Floor Drain


 Floor Gully

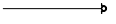
 110Ø Soil Pipe (uPVC Pipe)


 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)

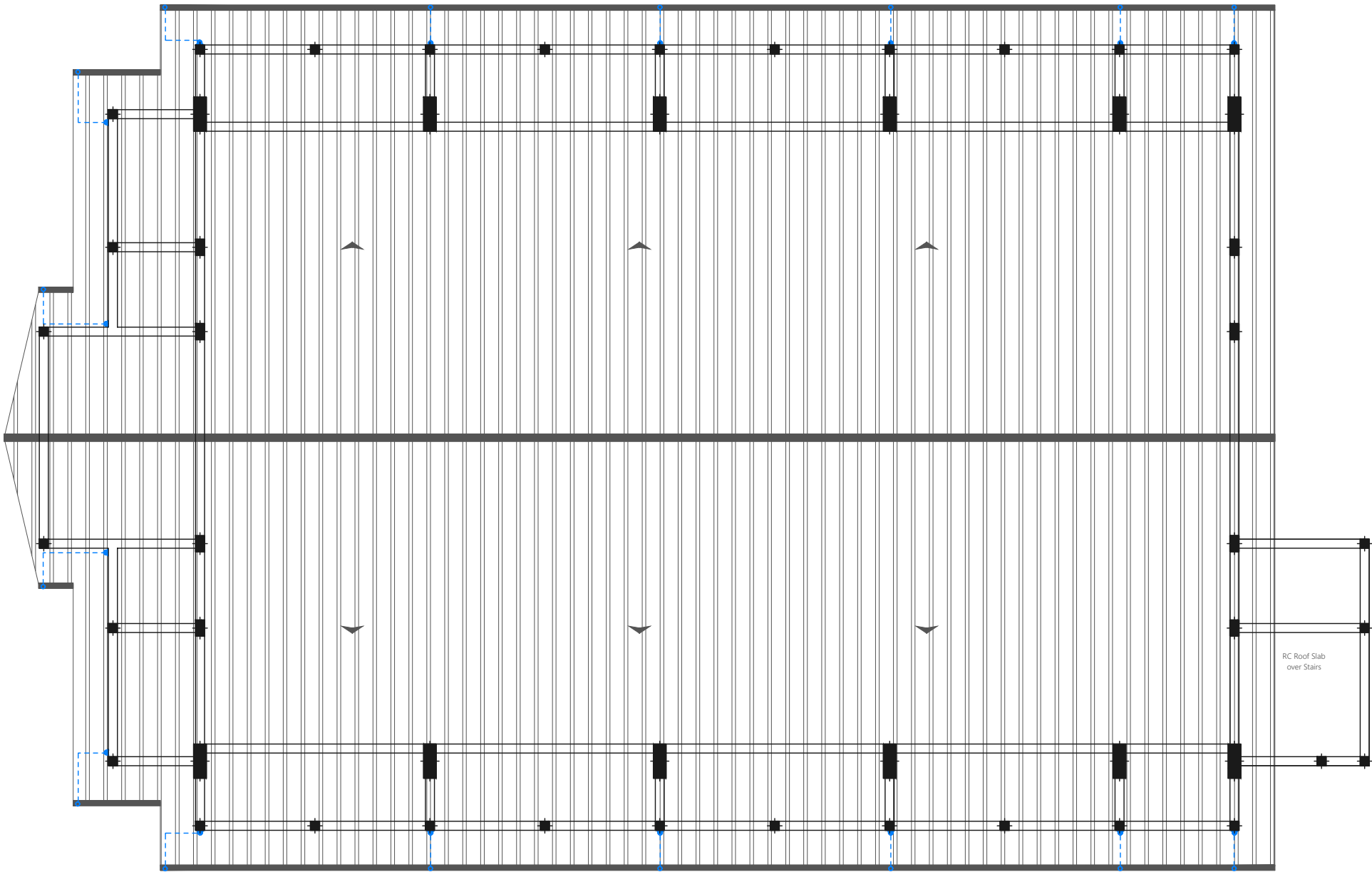
 110Ø Rain Water Pipes (uPVC Pipe)

 Clean Out Point


 Bottle Trap

 Manhole

 Gully Trap



ROOF - Drainage layout  
SCALE 1:150



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :

L.DHANBIDHIIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS

PROJ. REF:

SCALE :

AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

CHECKED :

DATE :

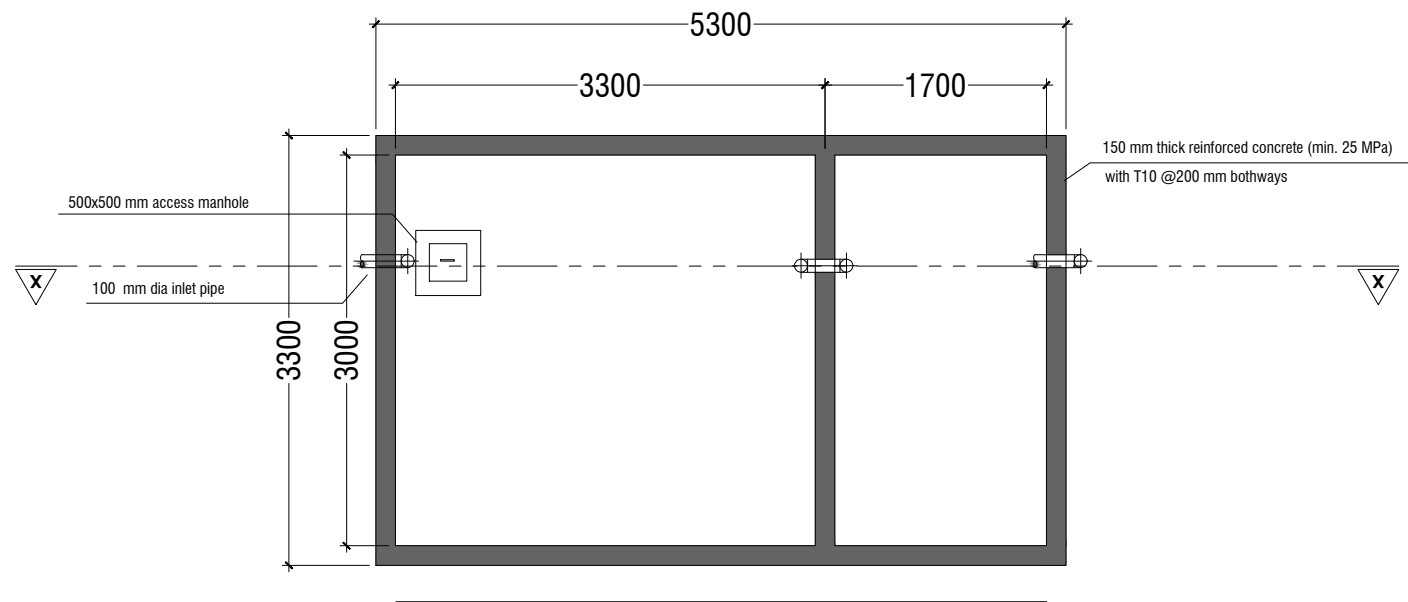
July 31, 2023

AMMENDMENTS

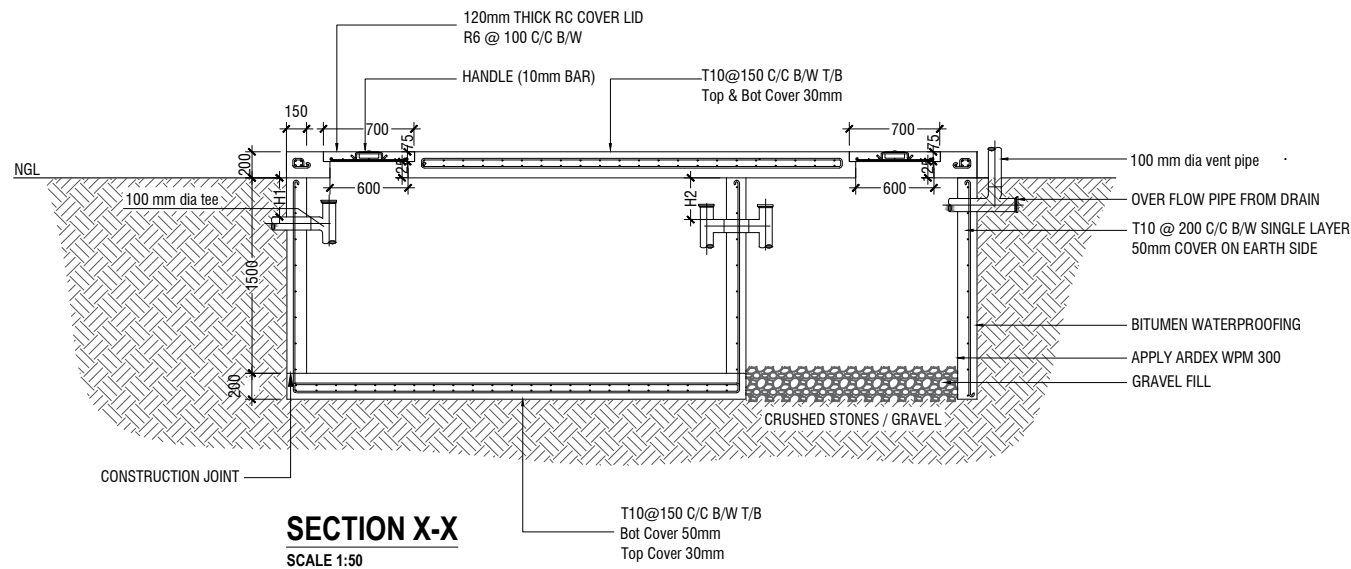
Issue	Date	Description

DWG NO : U16

-57



**PLAN**  
SCALE 1:50



**SECTION X-X**  
SCALE 1:50

**NOTE:**


H1 < H2

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

**SEPTIC TANK DETAIL**

SCALE 1:50

0 0.5 1 2 3 4 5



PHYSICAL FACILITIES  
DEVELOPMENT SECTION  
MINISTRY OF EDUCATION  
REPUBLIC OF MALDIVES

PROJECT :  
**L.DHANBIDHIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

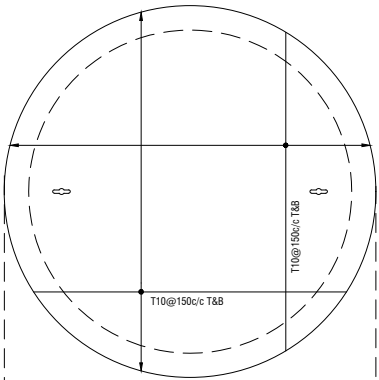
PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN

ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
CHECKED : \_\_\_\_\_  
DATE : July 31, 2023

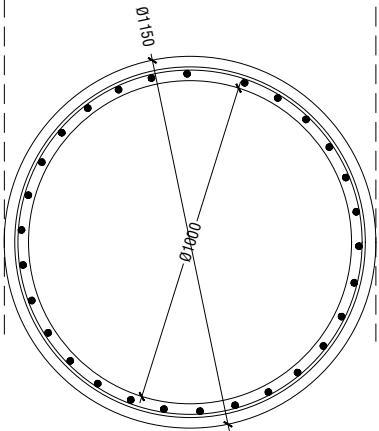
AMMENDMENTS		
Issue	Date	Description

DWG NO : U17 -57

WATER TANK WALL TOP & BOTTOM SLAB



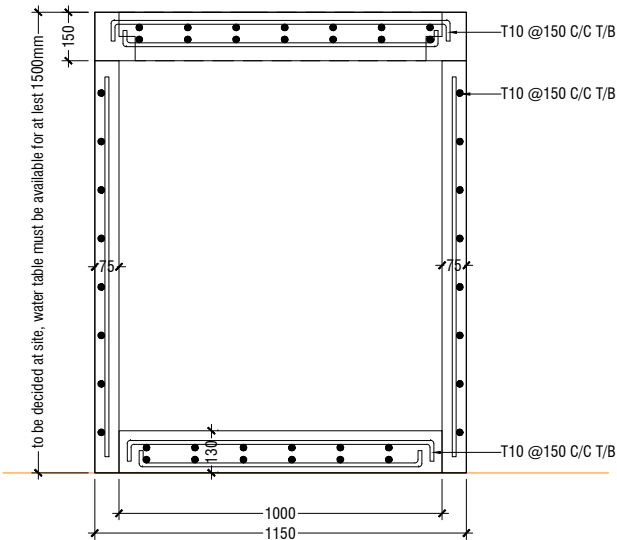
WATER TANK WALL REINF.



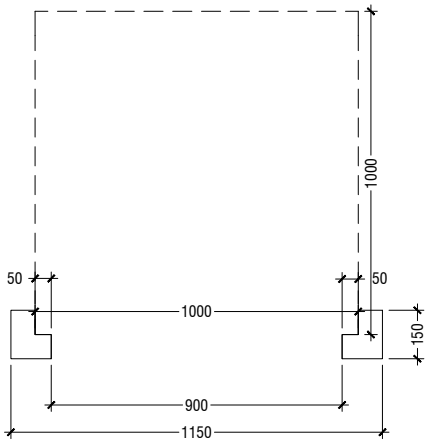
WATER TANK DETAILS

SCALE 1:20

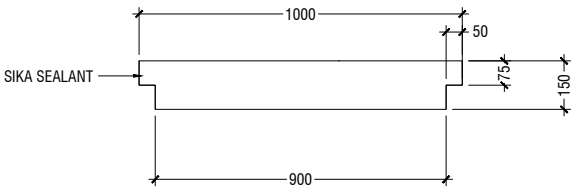
WATER TANK SECTION



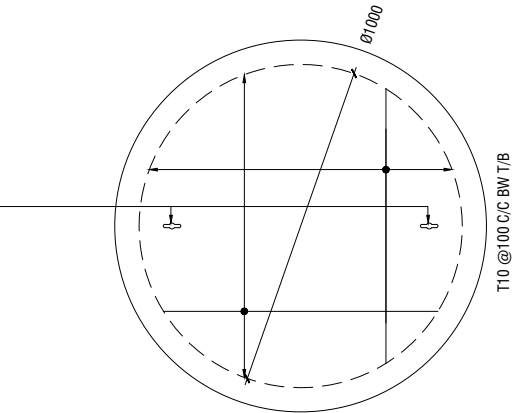
ELEVATION



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



PROJECT :  
**L.DHANBIDHIIOO SCHOOL  
MULTIPURPOSE HALL & 4  
CLASS ROOMS**

PROJ. REF: \_\_\_\_\_  
SCALE : AS GIVEN  
ARCHITECT : \_\_\_\_\_  
ENGINEER : \_\_\_\_\_  
DRAWN : \_\_\_\_\_  
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AMMENDMENTS		
Issue	Date	Description