

Prototype Mosques : 700 pax
Client: Ministry of Islamic Affairs




RIYAN PRIVATE LIMITED
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3rd floor, H.Azum, Ameenemagu, Male

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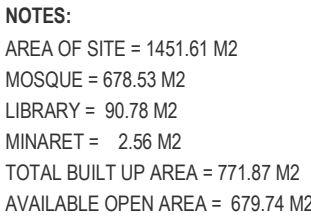
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PROJECT NAME		
Prototype Mosques		
CLIENT	Ministry of Islamic Affairs	
DEVELOPER		
ATOLL		
ISLAND		
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DRAWING TITLES		
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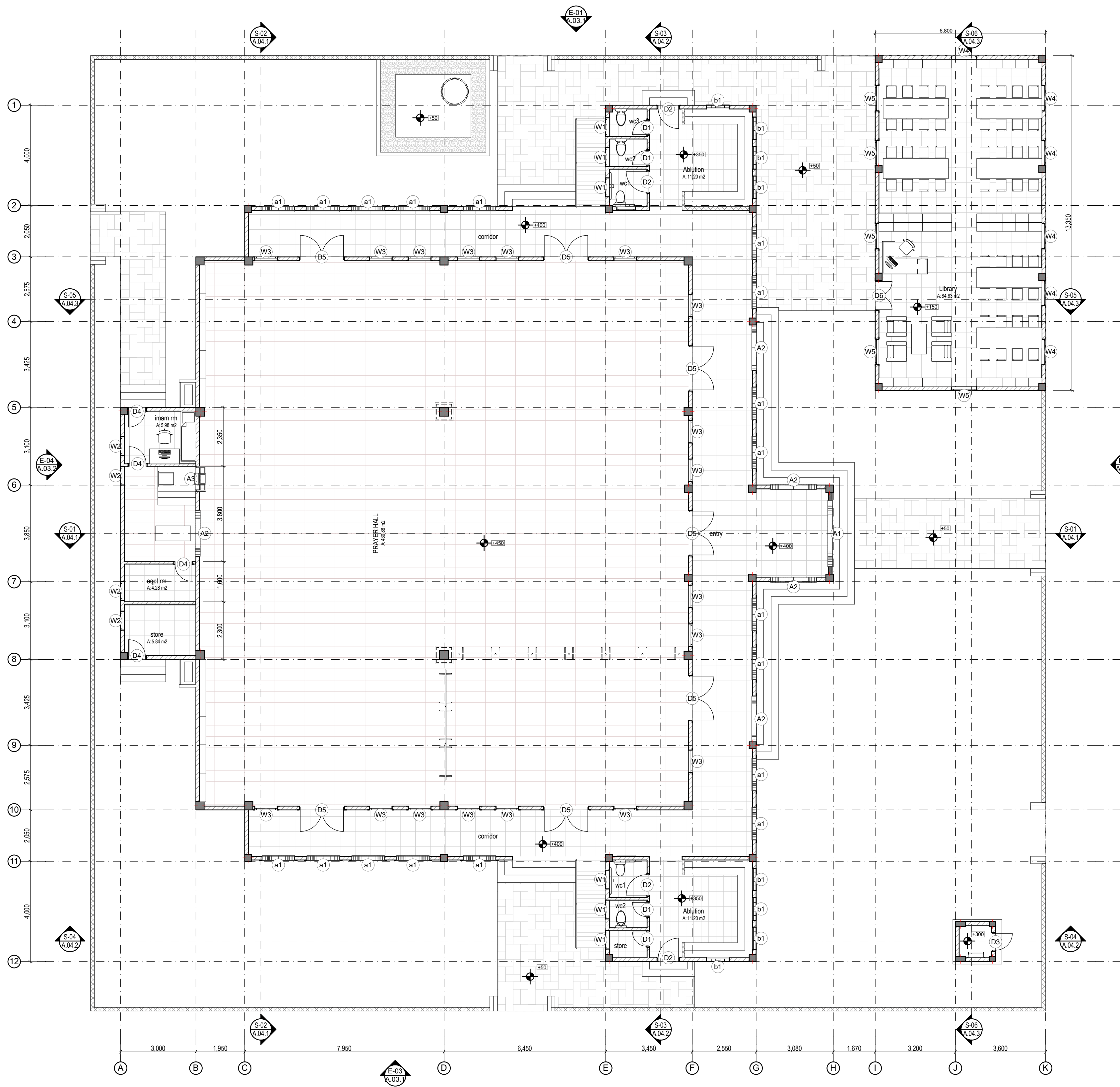
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LANDSCAPE DESIGN



Scale: 1:200



GROUND FLOOR PLAN
Scale: 1:100

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Prototype Mosques

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Ground Floor Plan

TITLE2

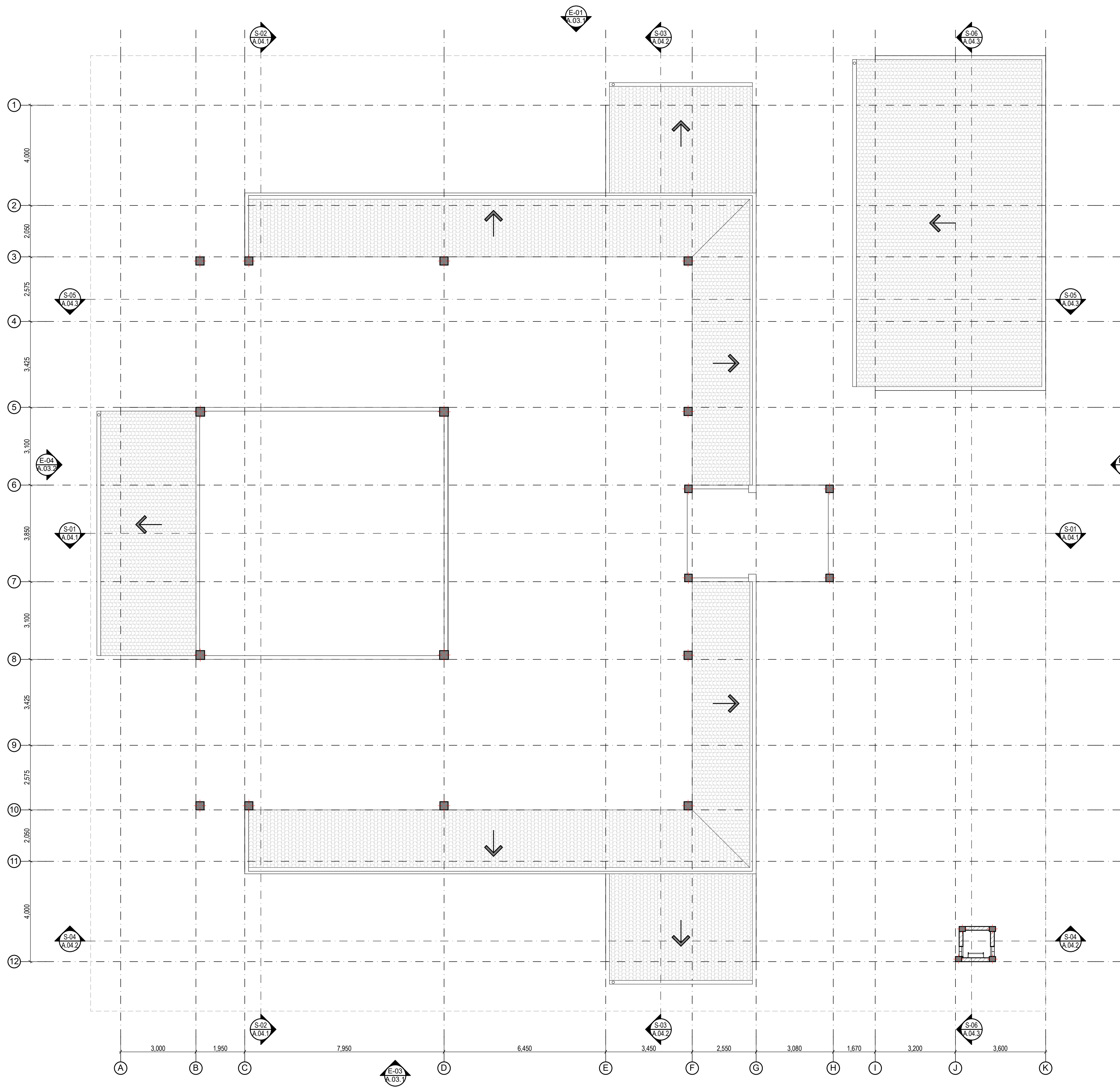
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TITLE4

SHEET SIZE A2 SCALE 1:100

SHEET NO. A.02.1

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ROOF LEVEL 1
Scale: 1:100

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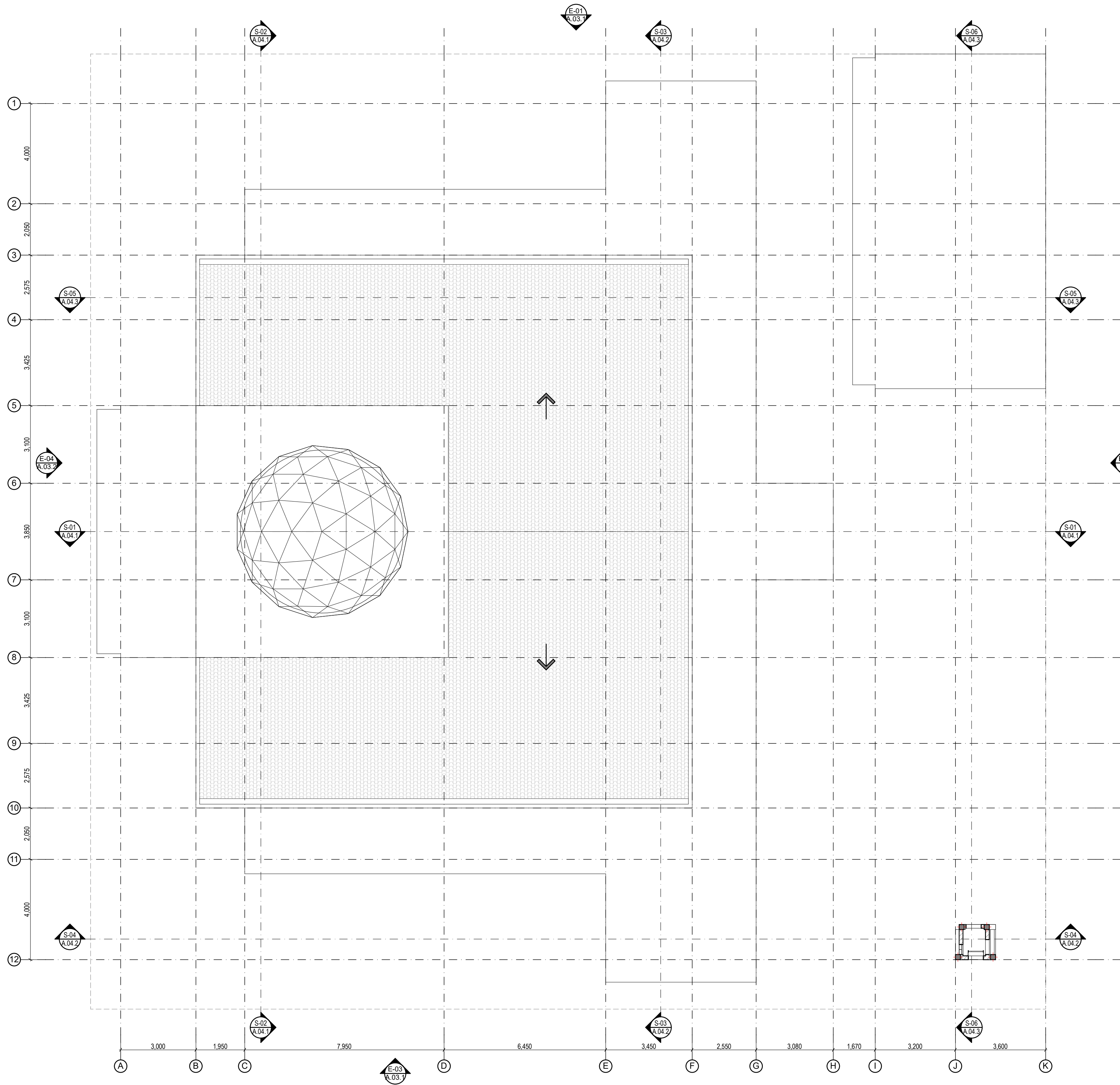
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DRAWING TITLES
Roof Level 1
TITLE2
TITLE3
TITLE4
SHEET SIZE A2 SCALE 1:100
SHEET NO. A.02.2


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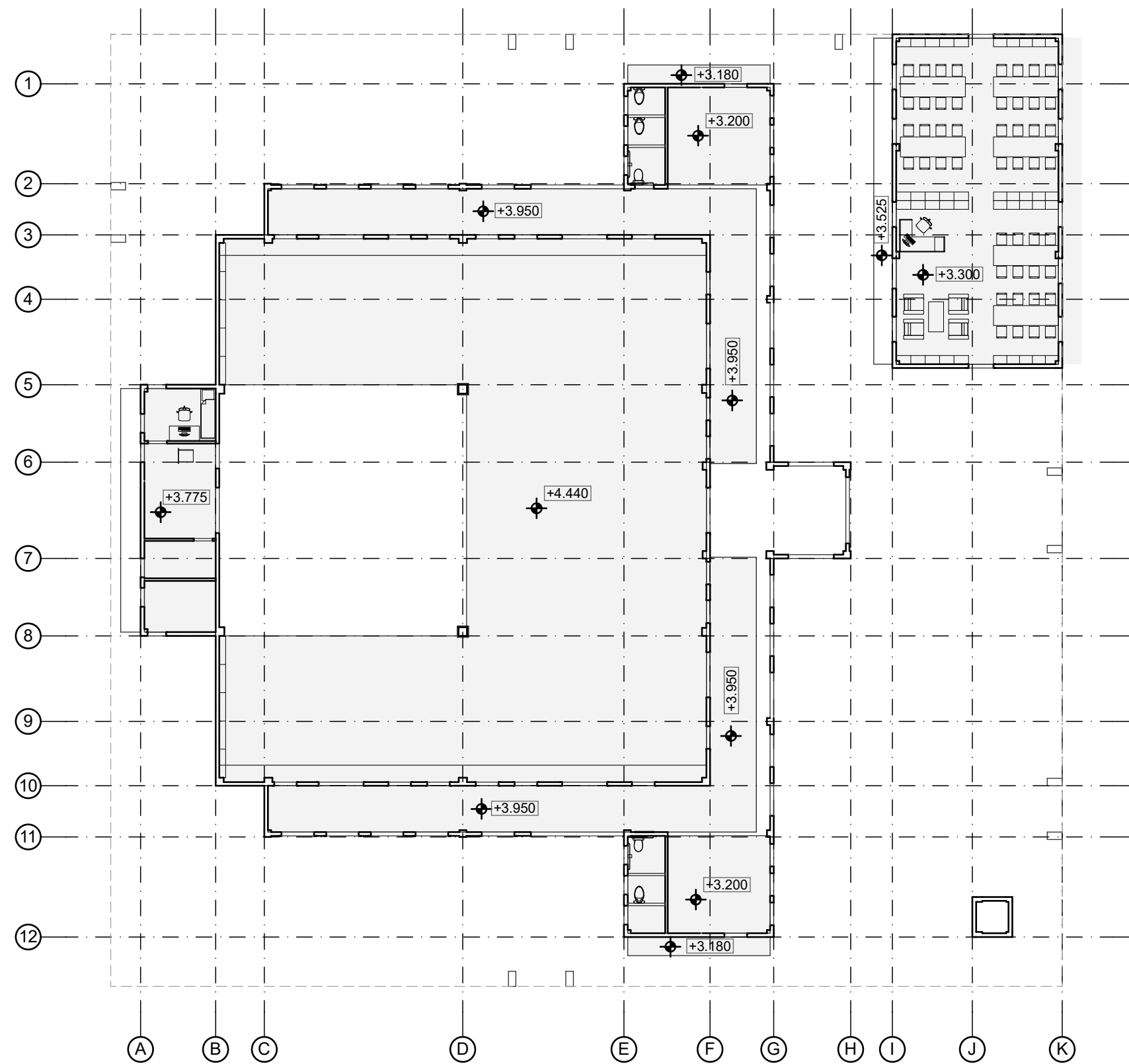
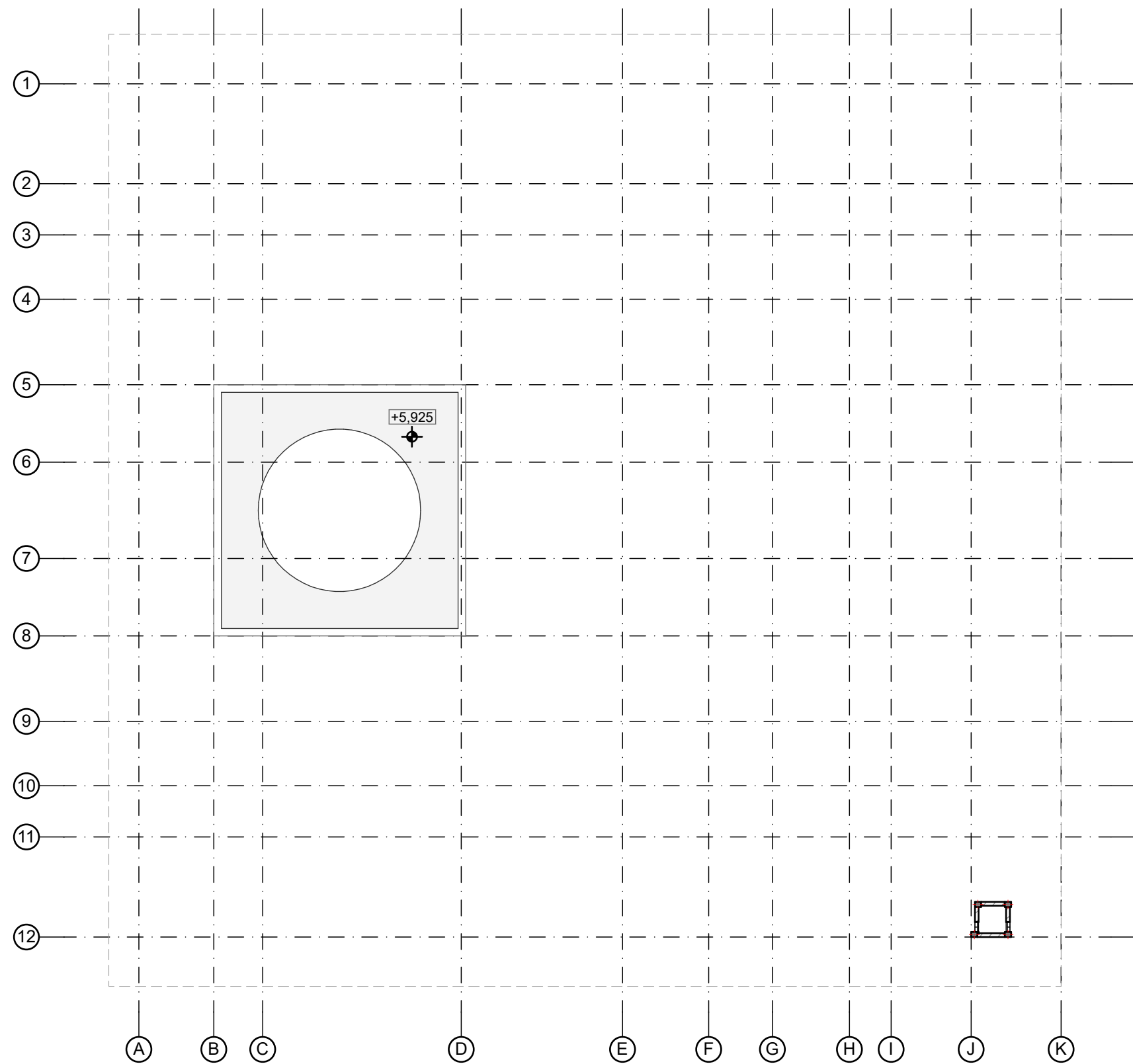
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DRAWING TITLES	
Roof Level 2	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE : A2 SCALE : 1:100	
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BUILDING NAME	
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Reflected Ceiling Plan	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
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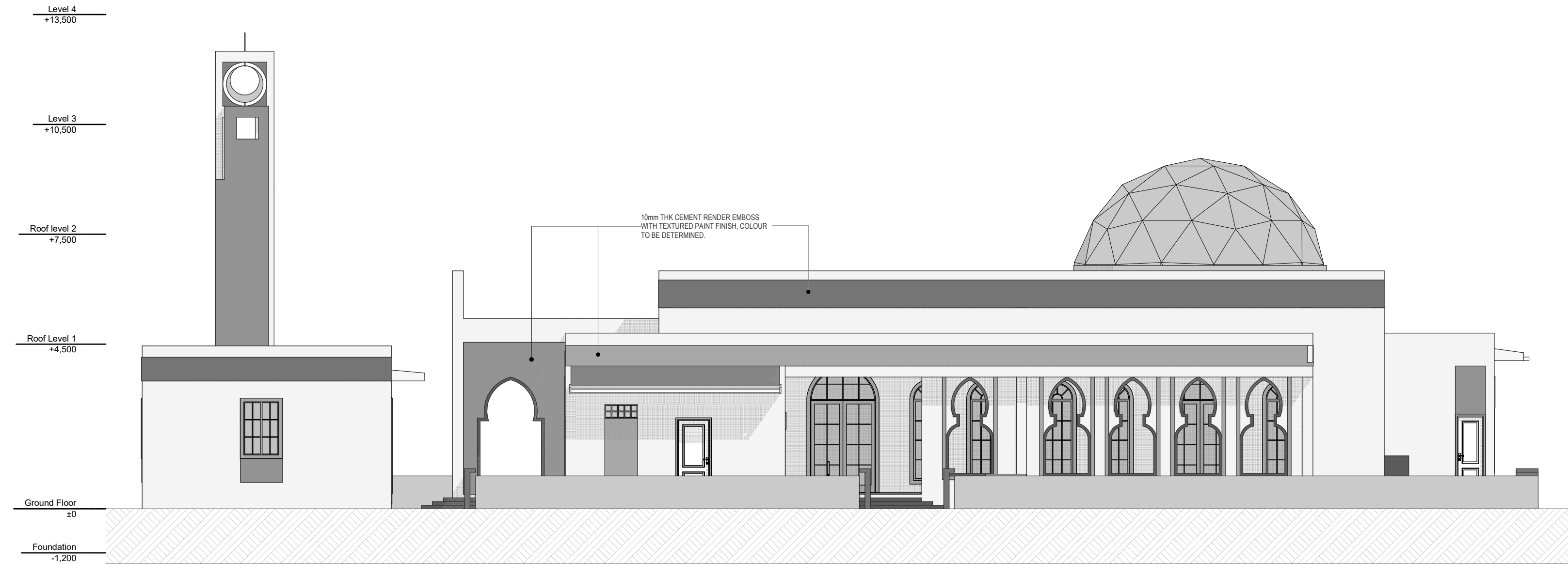
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RYAN PRIVATE LIMITED	
CONSULTANT PROJECT NO. R24002MA	
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PROJECT NAME	
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DRAWING TITLES		
E-01 & E-03 Elevations		
TITLE2		
TITLE3		
TITLE4		
SHEET SIZE	A2	SCALE 1:100
SHEET NO.	A.03.1	

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ELEVATION E-01
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ELEVATION E-03
Scale: 1:100

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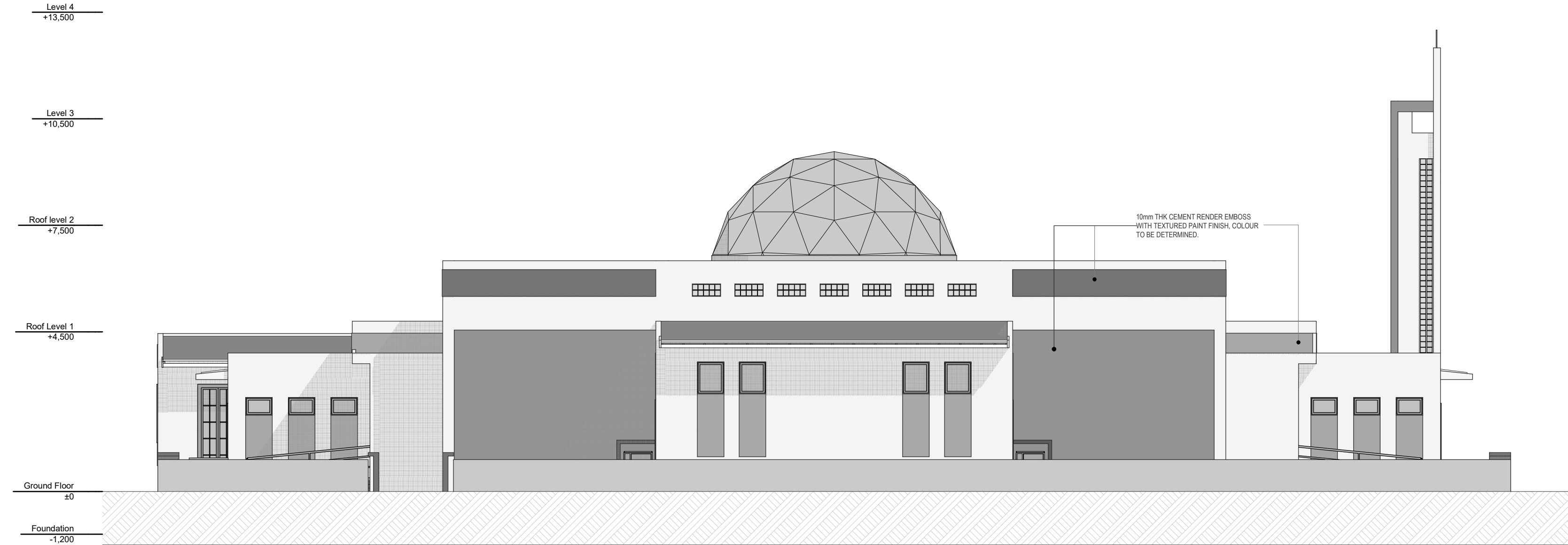
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INFRA DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

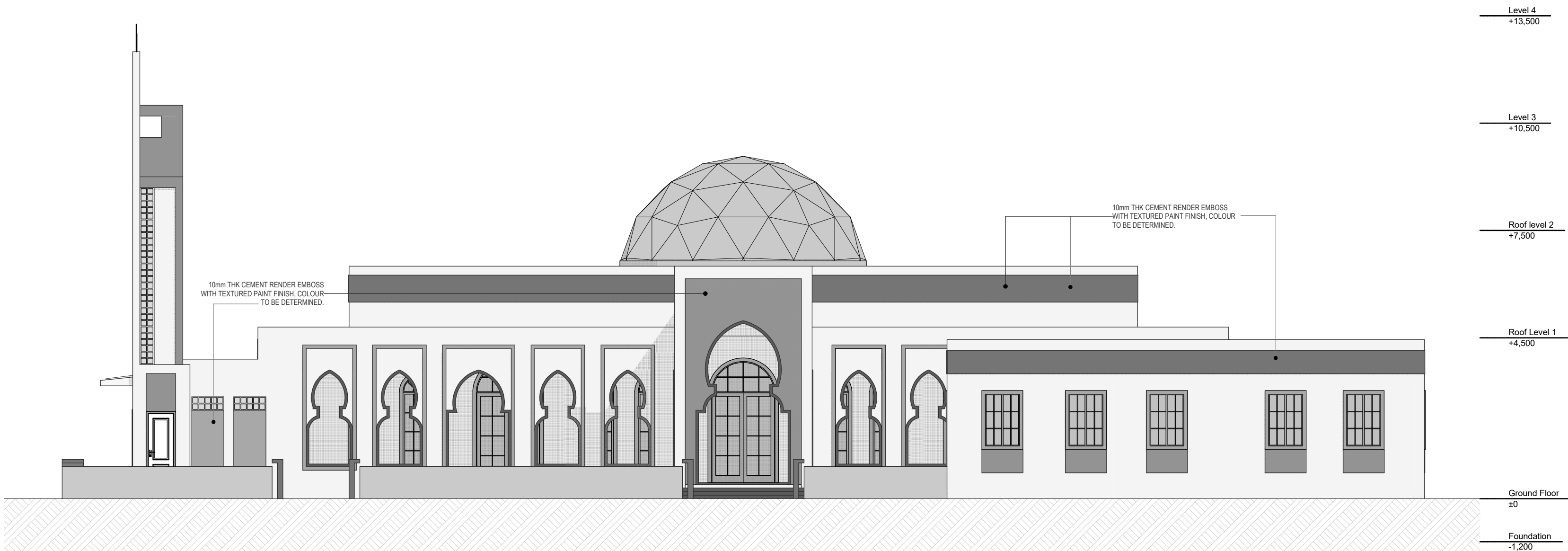
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DRAWING TITLES		
E-02 & E-04 Elevations		
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TITLE3		
TITLE4		
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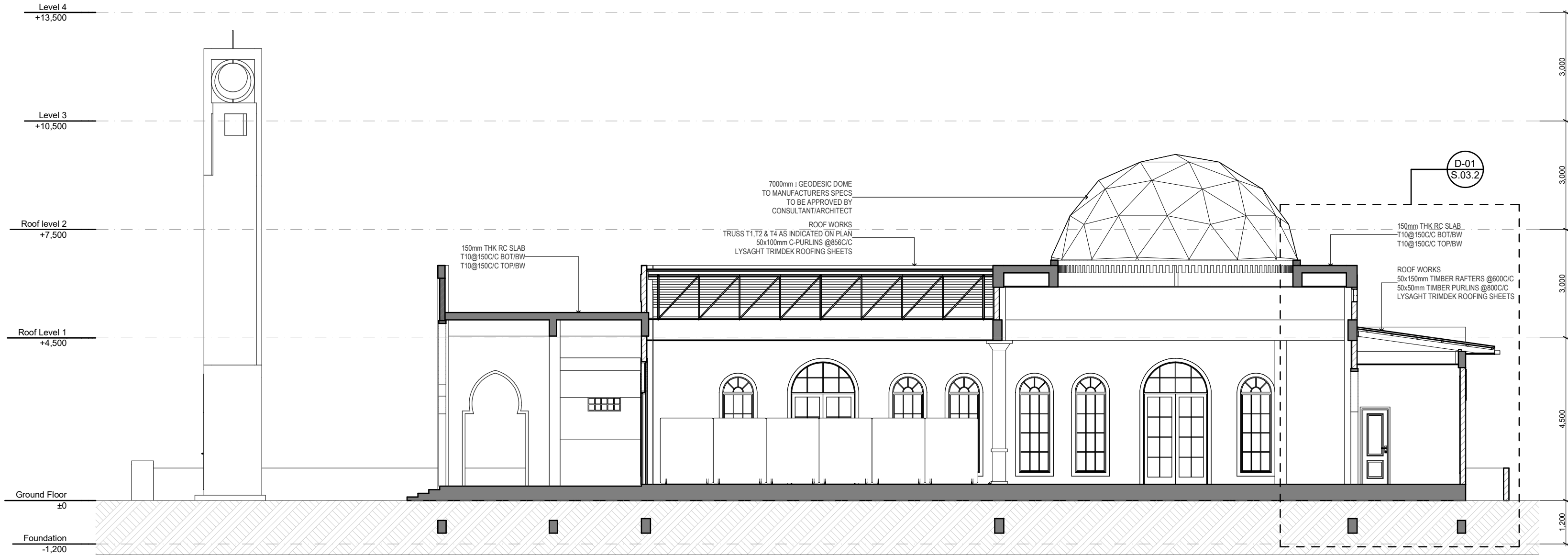
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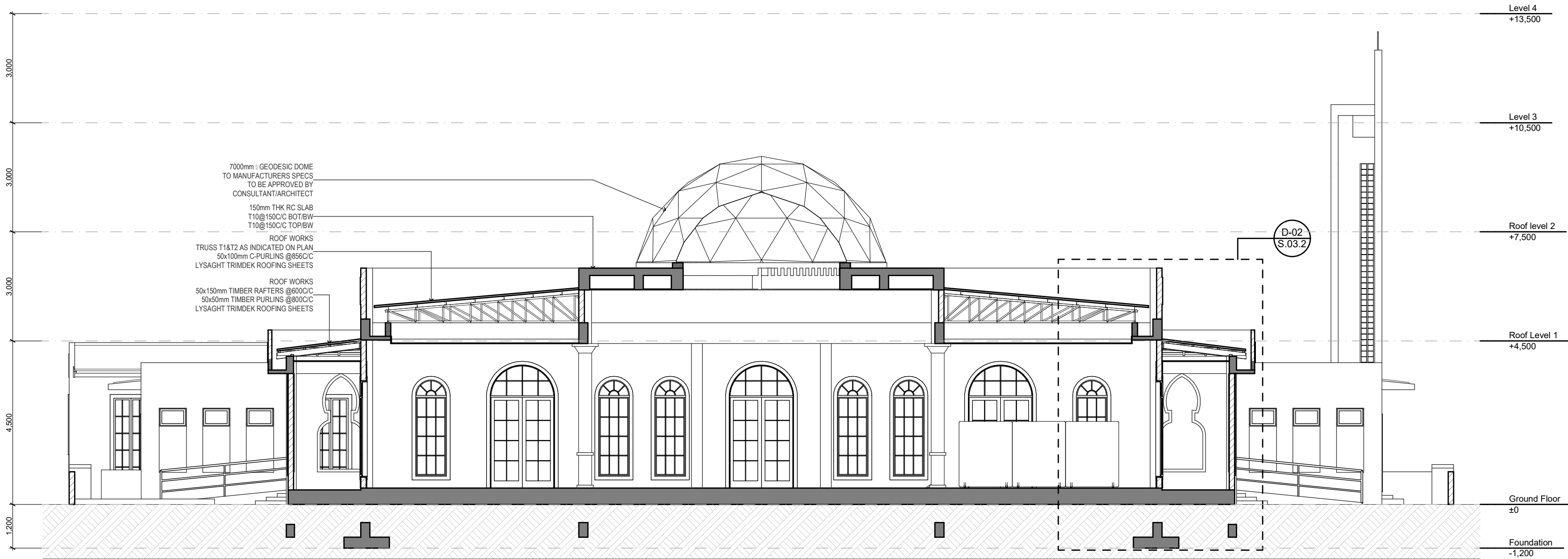
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Scale: 1:100



ELEVATION E-02
Scale: 1:100



SECTION S-01
Scale: 1:100



SECTION S-02
Scale: 1:100

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INFRA. DESIGNER	#Infra. Designer
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CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

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DRAWING TITLES

S-01 & S-02 Building Section

TITLE2

TITLE3

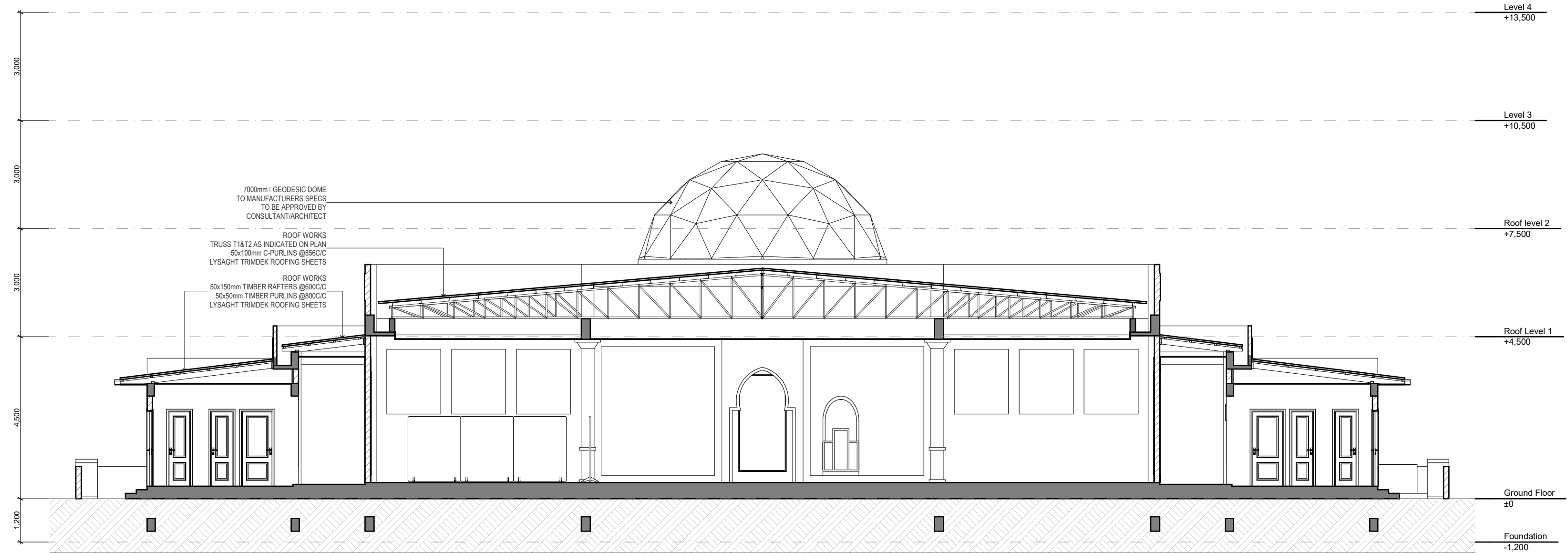
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SHEET SIZE A2 SCALE 1:100

SHEET NO.

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SECTION S-03
Scale: 1:100



SECTION S-04
Scale: 1:100

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RYAN PRIVATE LIMITED

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INFRA DESIGNER Infra. Designer

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Prototype Mosques

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DEVELOPER

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DRAWING TITLES

S-03 & S-04 Building Section

TITLE2

TITLE3

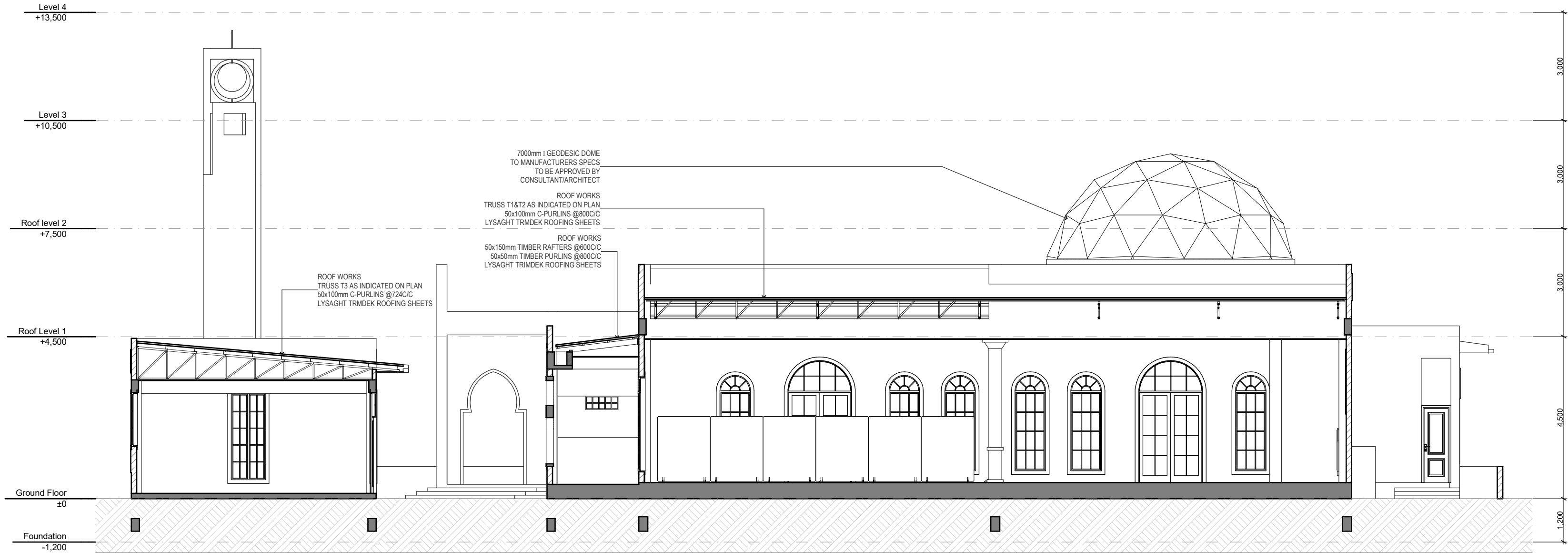
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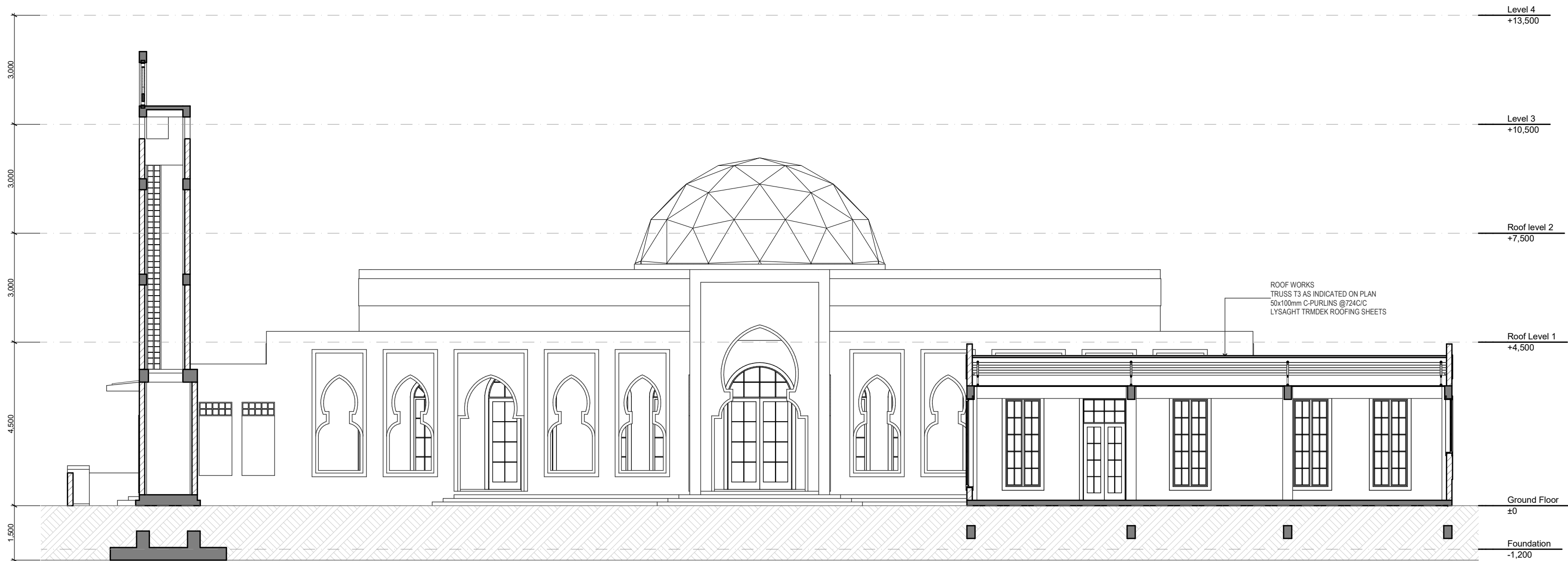
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SECTION S-05
Scale: 1:100



SECTION S-06
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CONSULTANT PROJECT NO. R24002MA

ARCHITECT Ismail Rasheed

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CHECKED BY Mariyam Inasha Shareef

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PROJECT NAME

Prototype Mosques

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DEVELOPER

ATOLL

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DRAWING TITLES

S-05 & S-06 Building Section

TITLE2

TITLE3

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TITLE5

SHEET SIZE A2 SCALE 1:100

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A.04.3

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All Openings Schedule						
2D Symbol						
View from Side Opposite...						
Element ID	a1	A1	A2	A3	b1	b2
Element Type	Concrete Arch Opening	Concrete Arch Opening	Concrete Arch Opening	Concrete Arch Opening	Glass Blocks	Glass Blocks
Remarks						
Location	Corridors	Main Entrance	Mihrab	Mimbar	Ablution Area	Prayer hall
Quantity	18	1	5	1	8	7
Area (m2)	2.79	9.94	5.07	1.97	-	-

OPENINGS SCHEDULE

Scale: 1:50

LEGEND:-
CG - CLEAR GLASS
AP - ALUMINIUM PANEL
AL - ALUMINIUM LOUVERS
FG - FRITTED GLASS
FTG - FIXED TINTED GLASS
TG - TINTED GLASS
OPG - OPAGUE GLASS

NOTE:-
-ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
-ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
-ALL DOOR & WINDOW FRAMES AND PANELS TO BE 60 MICRON POWDER COATED ALUMINIUM, COLOUR TO BE DETERMINED.
-THE DOORS / WINDOWS WHICH DOES NOT TOUCH THE BEAM PLEASE PUT A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.

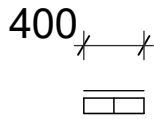
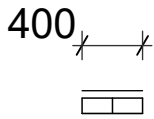
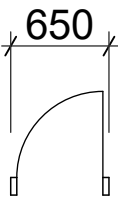
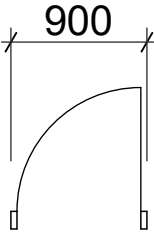


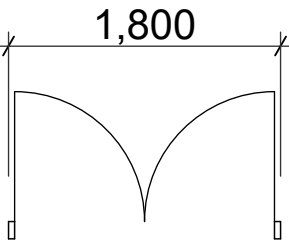
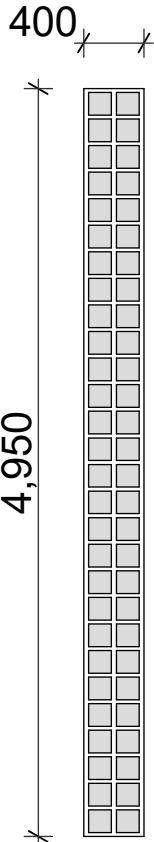
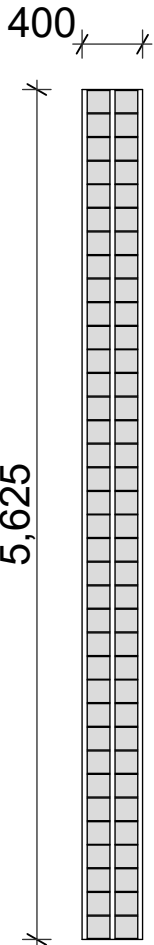
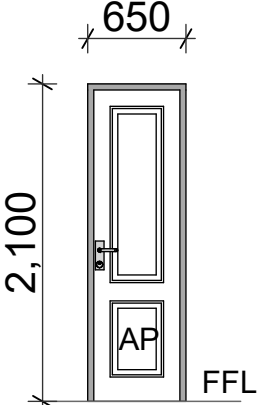
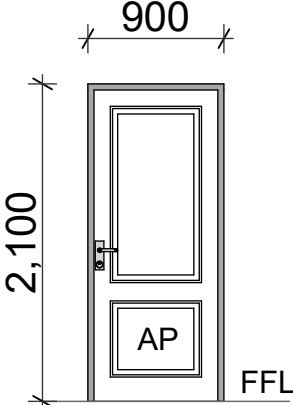
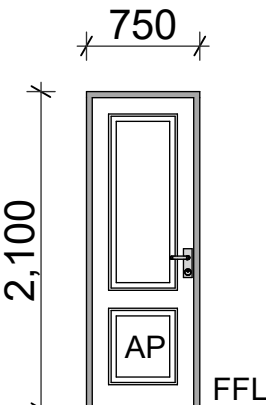
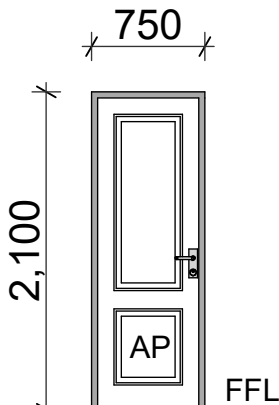
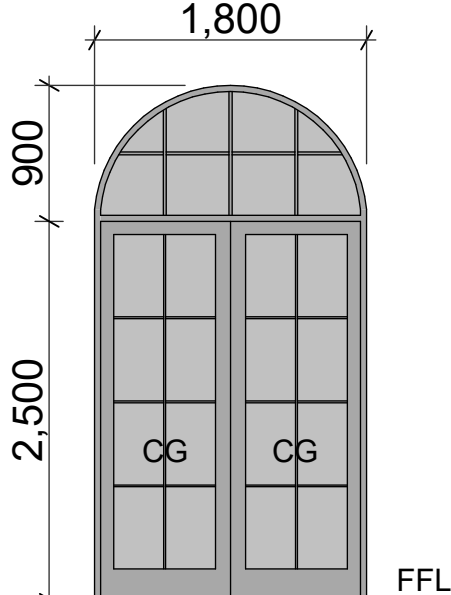
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CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	latitude N, long. E
ISSUED FOR	
DD - DETAIL DESIGN	
BUILDING NAME	
Mosque for 700 pax	
BUILDING/STRUCTURE NO	ISSUE DATE
	11/6/2024
DRAWING TITLES	
All Openings Schedule	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	2:1
SHEET NO.	
A.05.1	

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All Openings Schedule							
2D Symbol							
View from Side Opposite...							
Element ID	b3	b4	D1	D2	D3	D4	D5
Element Type	Glass Blocks	Glass Blocks	Alumin Frame/Panel	Alumin Frame/Panel	Alumin Frame/Panel	Alumin Frame/Panel	Alum. Glazed Door
Remarks							
Location	Minaret	Minaret	Ablution Area	Ablution Area	Minaret	Imam, Eqp & Store	Prayer Hall
Quantity	1	1	4	4	1	4	7
Area (m2)	--	-	1.36	1.89	1.58	1.58	5.77

OPENINGS SCHEDULE

Scale: 1:50


LEGEND:-
CG - CLEAR GLASS
AP - ALUMINIUM PANEL
AL - ALUMINIUM LOUVERS
FG - FRITTED GLASS
FTG - FIXED TINTED GLASS
TG - TINTED GLASS
OPG - OPAGUE GLASS

NOTE:-
-ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
-ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
-ALL DOOR & WINDOW FRAMES AND PANELS TO BE 60 MICRON POWDER COATED ALUMINIUM, COLOUR TO BE DETERMINED.
-THE DOORS / WINDOWS WHICH DOES NOT TOUCH THE BEAM PLEASE PUT A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.

GENERAL NOTES

REVISIONS				
REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

CONSULTANTS
LEAD CONSULTANT
INFRASTRUCTURE DESIGN
LANDSCAPE DESIGN
REGISTERED LOCAL CONSULTANT

	
CONSULTANT PROJECT NO. R24002MA	
ARCHITECT	Ismail Rashheed
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.X.B. C.D.P. N.K.P. M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
PROJECT NAME	
Prototype Mosques	
CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	latitude N, long. E
ISSUED FOR	
DD - DETAIL DESIGN	
BUILDING NAME	
Mosque for 700 pax	
BUILDING/STRUCTURE NO	ISSUE DATE
	11/6/2024
DRAWING TITLES	
All Openings Schedule	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	2:1
SHEET NO.	
A.05.2	

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All Openings Schedule							
2D Symbol							
View from Side Opposite...							
Element ID	D6	O1	W1	W2	W3	W4	W5
Element Type	Alum. Glazed Door	Opening	Alum. Glazed Window	Alum. Glazed Window	Alum. Glazed Window	Alum. Glazed Window	Alum. Glazed Window
Remarks							
Location	Library	Minaret	Ablution Area	Imam Area	Prayer Hall	Library	Library
Quantity	1	4	7	4	18	6	5
Area (m2)	3.36	0.36	0.38	0.68	2.34	1.5	2.45

OPENINGS SCHEDULE

Scale: 1:50

LEGEND:-
CG - CLEAR GLASS
AP - ALUMINIUM PANEL
AL - ALUMINIUM LOUVERS
FG - FRITTED GLASS
FTG - FIXED TINTED GLASS
TG - TINTED GLASS
OPG - OPAGUE GLASS

NOTE:-
-ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
-ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
-ALL DOOR & WINDOW FRAMES AND PANELS TO BE 60 MICRON POWDER COATED ALUMINIUM, COLOUR TO BE DETERMINED.
-THE DOORS / WINDOWS WHICH DOES NOT TOUCH THE BEAM PLEASE PUT A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.

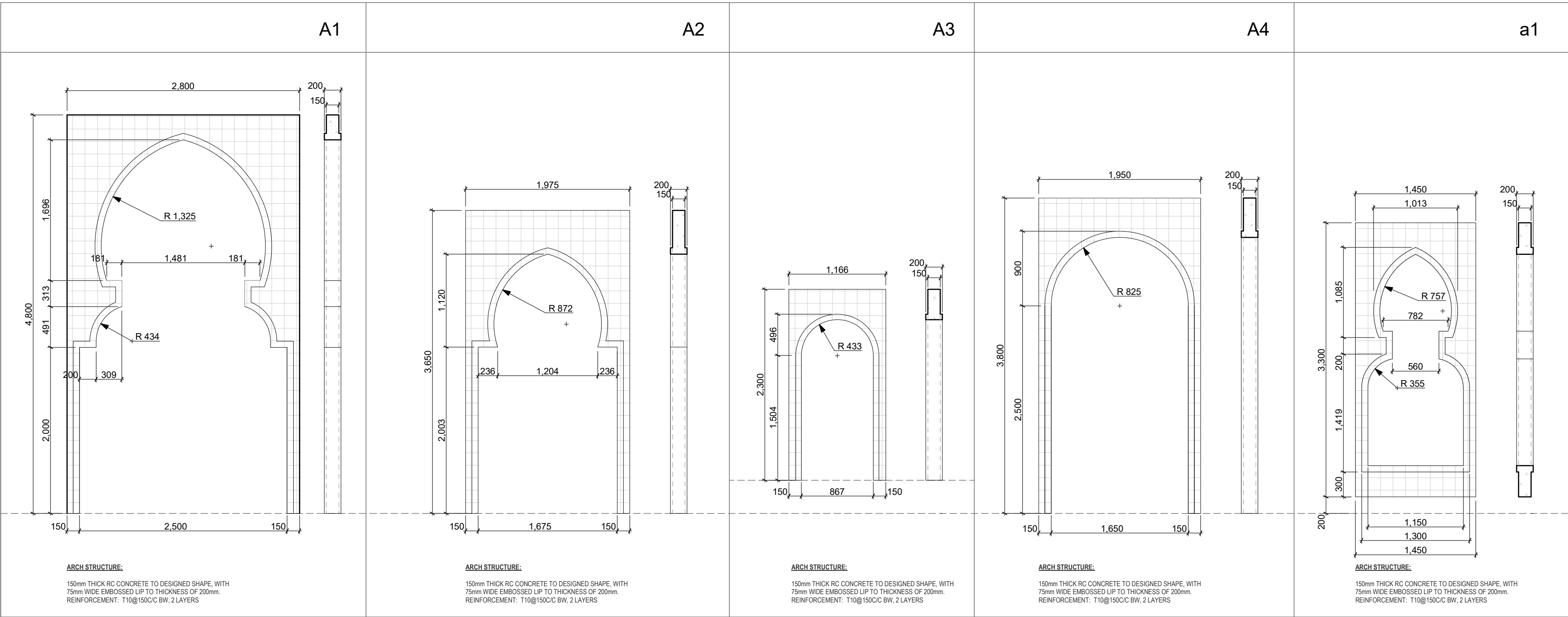
GENERAL NOTES

REVISIONS				
REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

CONSULTANTS
LEAD CONSULTANT
INFRASTRUCTURE DESIGN
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CONSULTANT PROJECT NO. R24002MA	
ARCHITECT	Ismail Rashheed
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B. C.D.P. N.K.P. M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
PROJECT NAME	
Prototype Mosques	
CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	
ISSUED FOR	
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BUILDING NAME	
Mosque for 700 pax	
BUILDING/STRUCTURE NO	ISSUE DATE
	11/6/2024
DRAWING TITLES	
All Openings Schedule	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	2:1
SHEET NO.	
A.05.3	

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ARCHES STRUCTURE

ARCHES DETAILS

Scale: 1:40

GENERAL NOTES

REVISIONS

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REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

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INFRASTRUCTURE DESIGN

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CONSULTANT PROJECT NO. R24002MA

ARCHITECT Ismail Rasheed

INT. DESIGNER #Int. Designer

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B. C.D.P. N.K.P. M.E.I

INFRA DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Mariyam Inasha Shareef

APPROVED BY

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

ISLAND

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DRAWING TITLES

Arches Structure

TITLE2

TITLE3


TITLE4

SHEET SIZE A2 SCALE 1:40

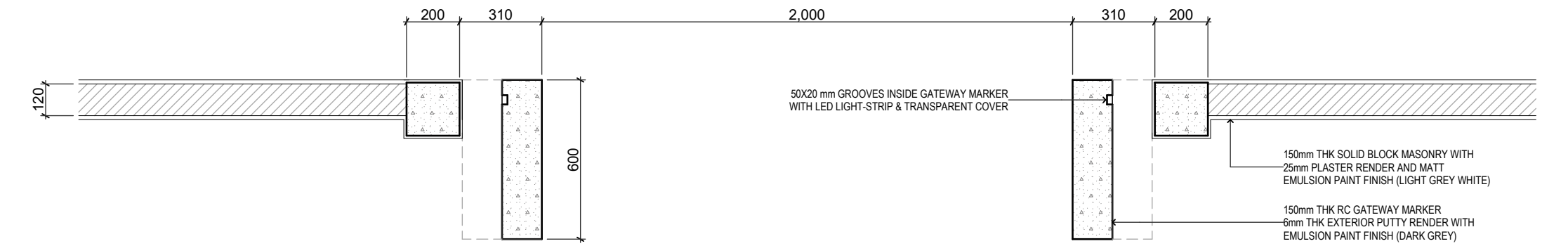
SHEET NO. A.05.4

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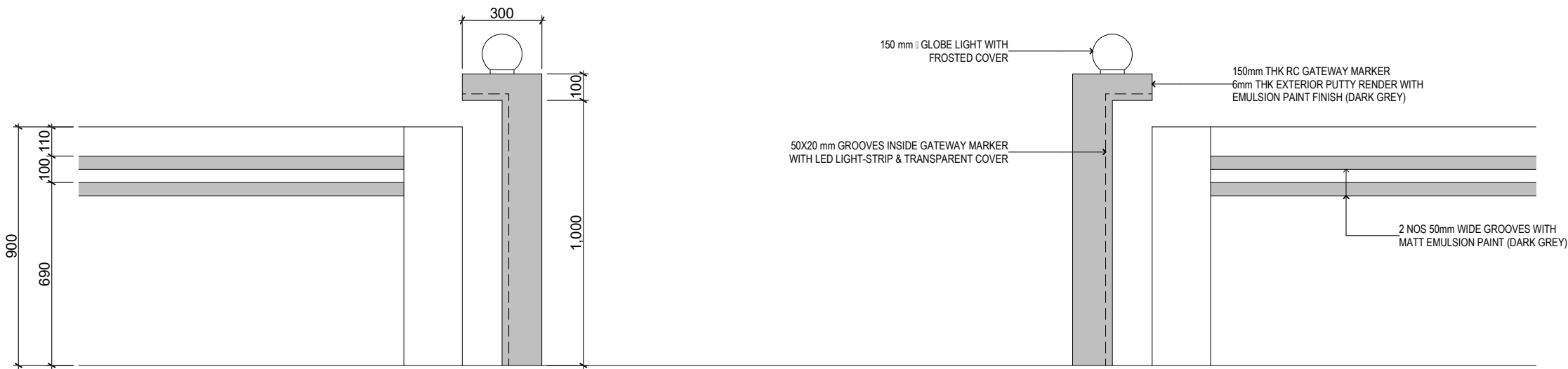


<div><div>RYANN PRIVATE LIMITED www.ryann.co.th</div></div>	
CONSULTANT PROJECT NO. R2402DMA	
ARCHITECT	Ismail Rasheed
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muhtalib Waheed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
WFRS. DESIGNER	Wfrs. Designer
DRAINAGE BY	IA
CHECKED BY	Mariyam Inasha Shanef
APPROVED BY	
PROJECT NAME	
Prototype Mosques	
CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	
ISSUED FOR	
DD - DETAIL DESIGN	
BUILDING NAME	
Mosque for 700 pax	
BUILDING/STRUCTURE NO.	ISSUE DATE
	11/6/2024
DRAWING TITLES	
Site Details	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	1:200
SHEET NO.	
A.06.1	

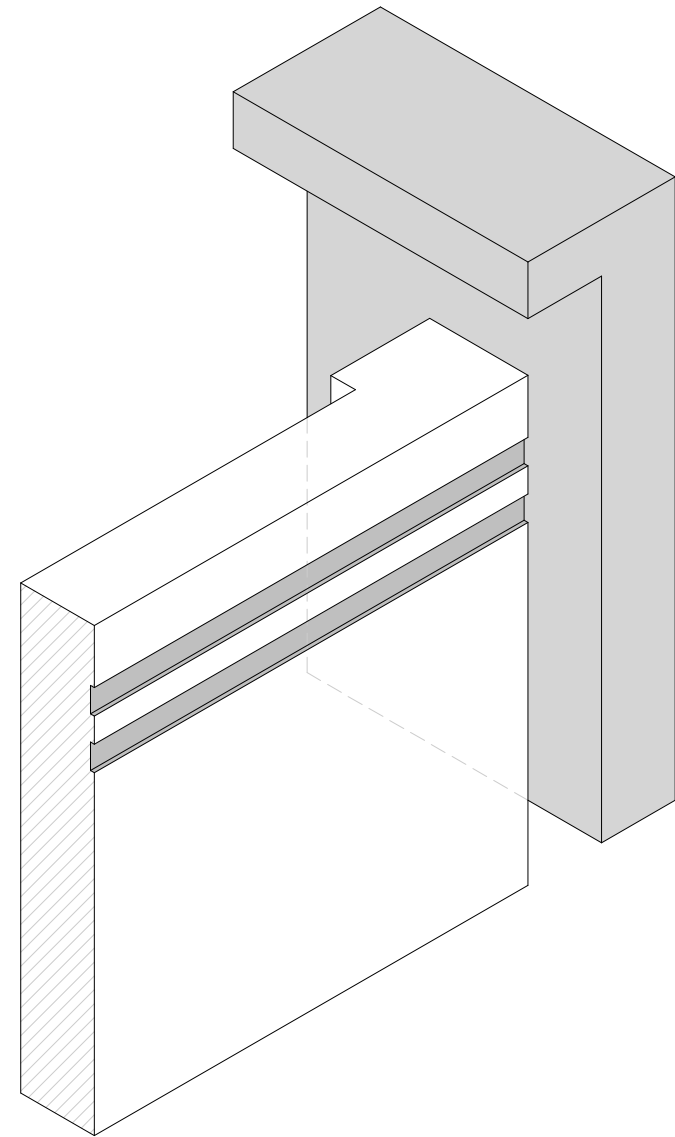
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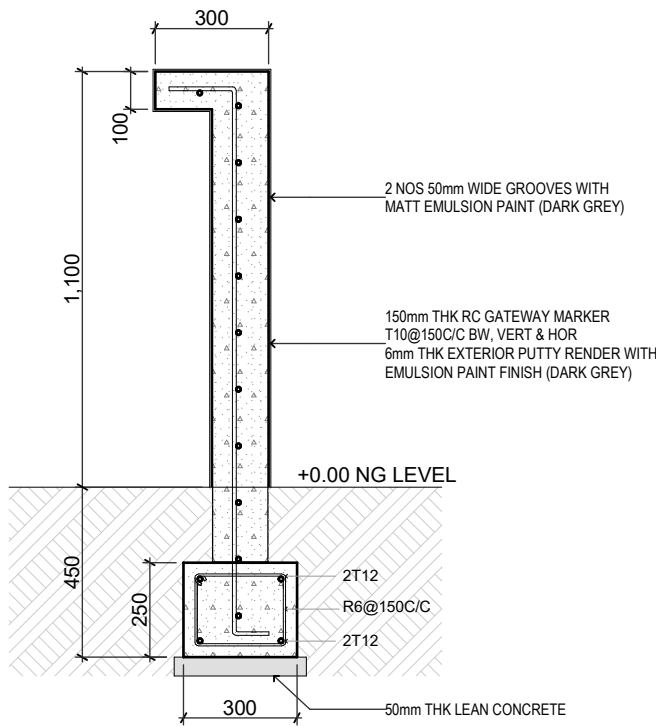
GATEWAY PLAN



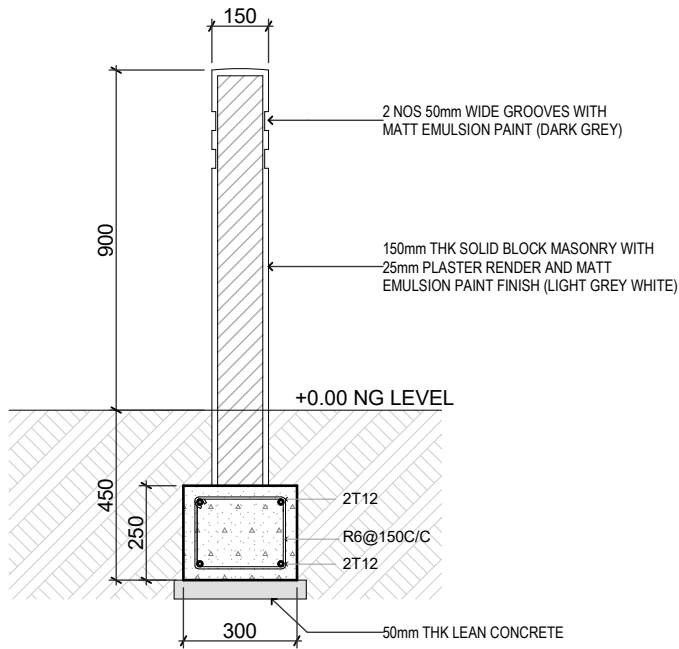
GATEWAY ELEVATION



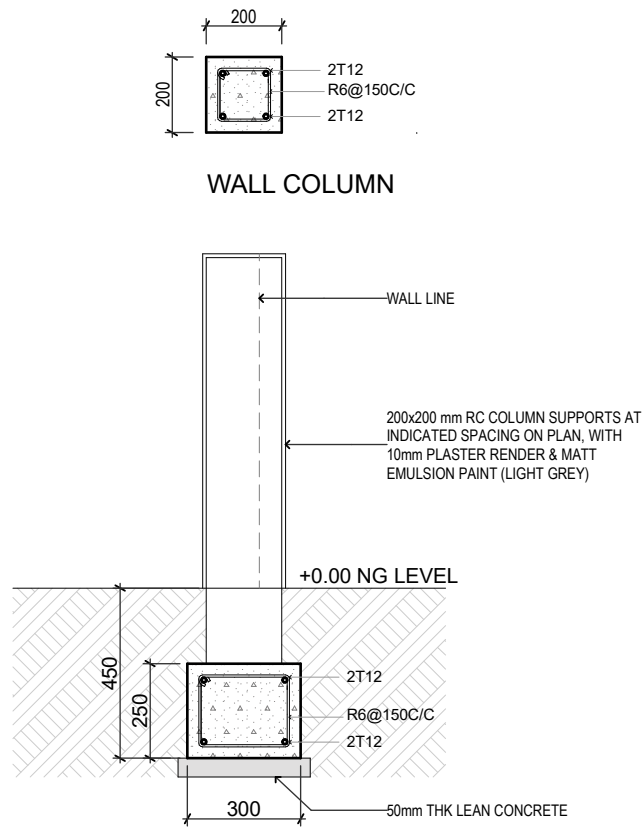
ISOMETRIC VIEW



GATEWAY SECTION



WALL SECTION



COLUMN SECTION

BOUNDARY WALL DETAILS

Scale: 1:20

GENERAL NOTES

REVISIONS

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REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

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LANDSCAPE DESIGN

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CONSULTANT PROJECT NO.	R24002MA
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CIVIL ENGINEER	Mohamed Muthalib Waleed
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INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

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DRAWING TITLES

Boundary Wall Details

TITLE2

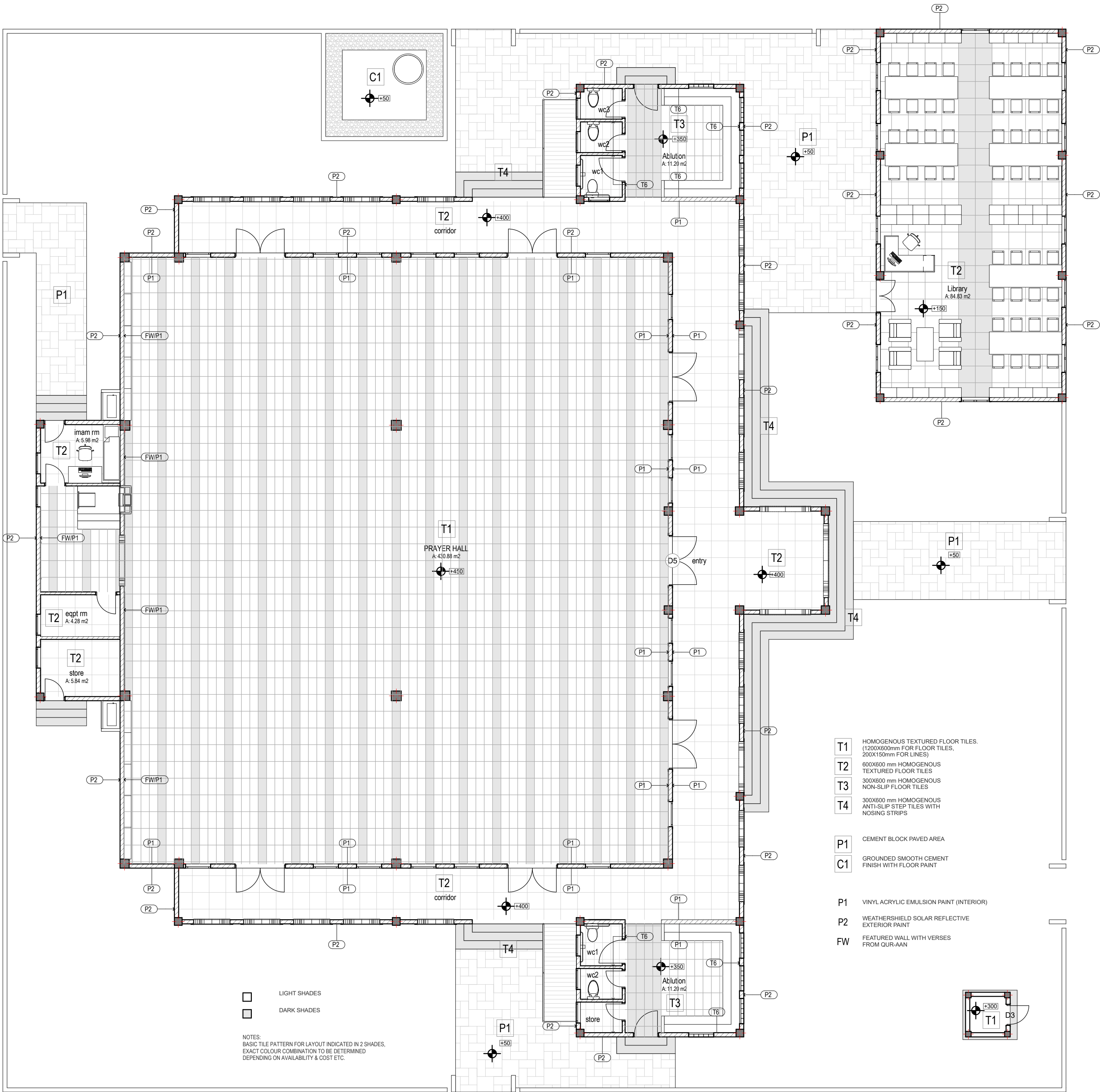
TITLE3

TITLE4

SHEET SIZE	A2	SCALE	1:20
SHEET NO.	A.06.2		

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MATERIAL FINISHES
Scale: 1:100



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CONSULTANT PROJECT NO.	R24002MA
ARCHITECT	Ismail Rashied
INT. DESIGNER	#Int. Designer
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INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

PROJECT NAME
Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

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BUILDING NAME

Mosque for 700 pax

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11/6/2024

DRAWING TITLES

Material Finishes

TITLE2

TITLE3

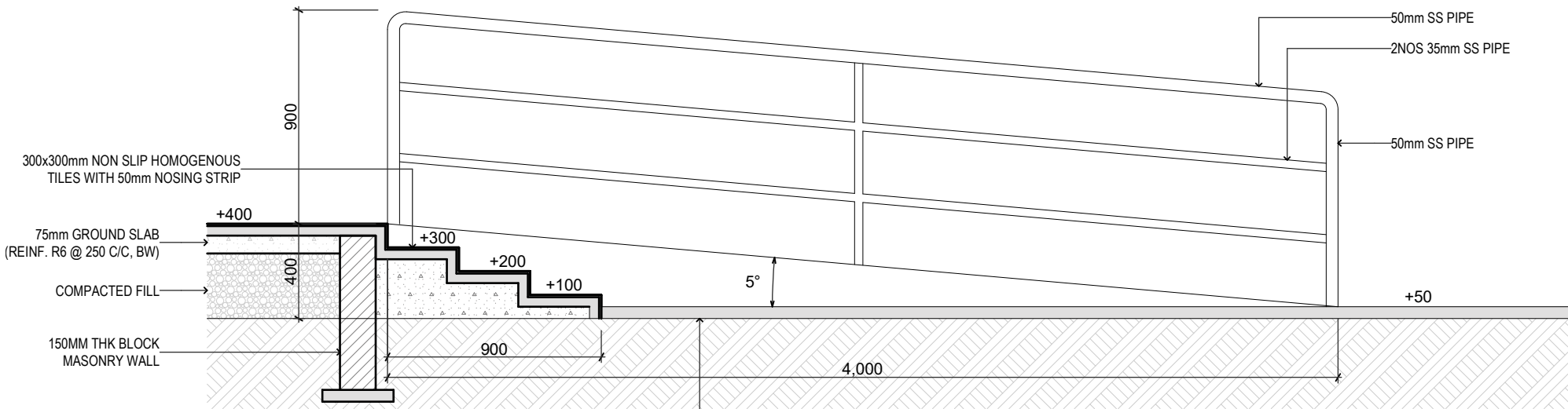
TITLE4

SHEET SIZE A2 SCALE 1:100

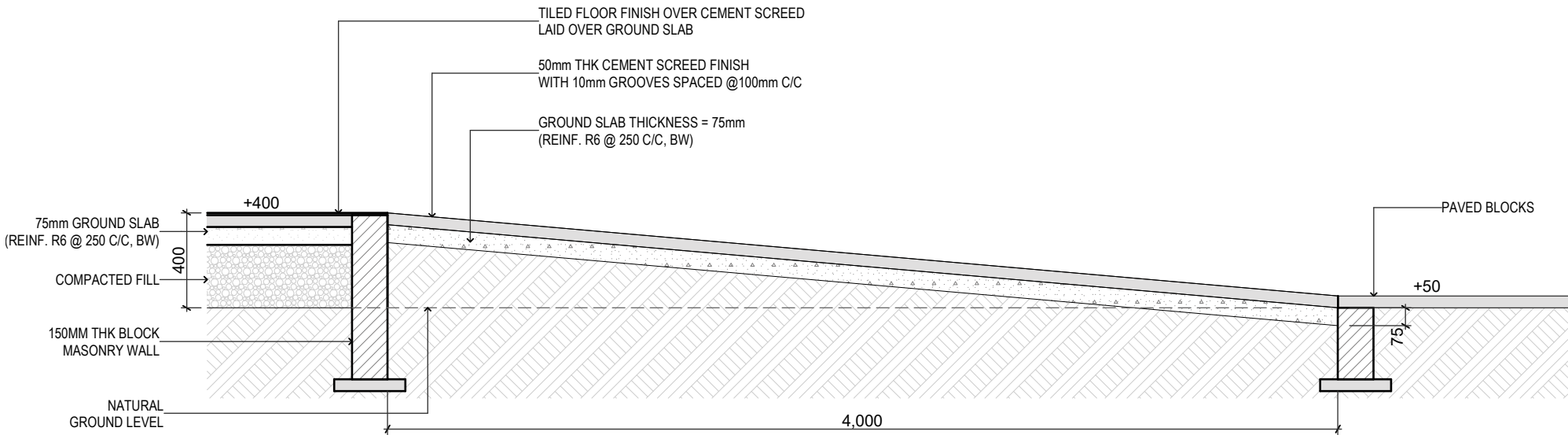
SHEET NO.

A.06.3

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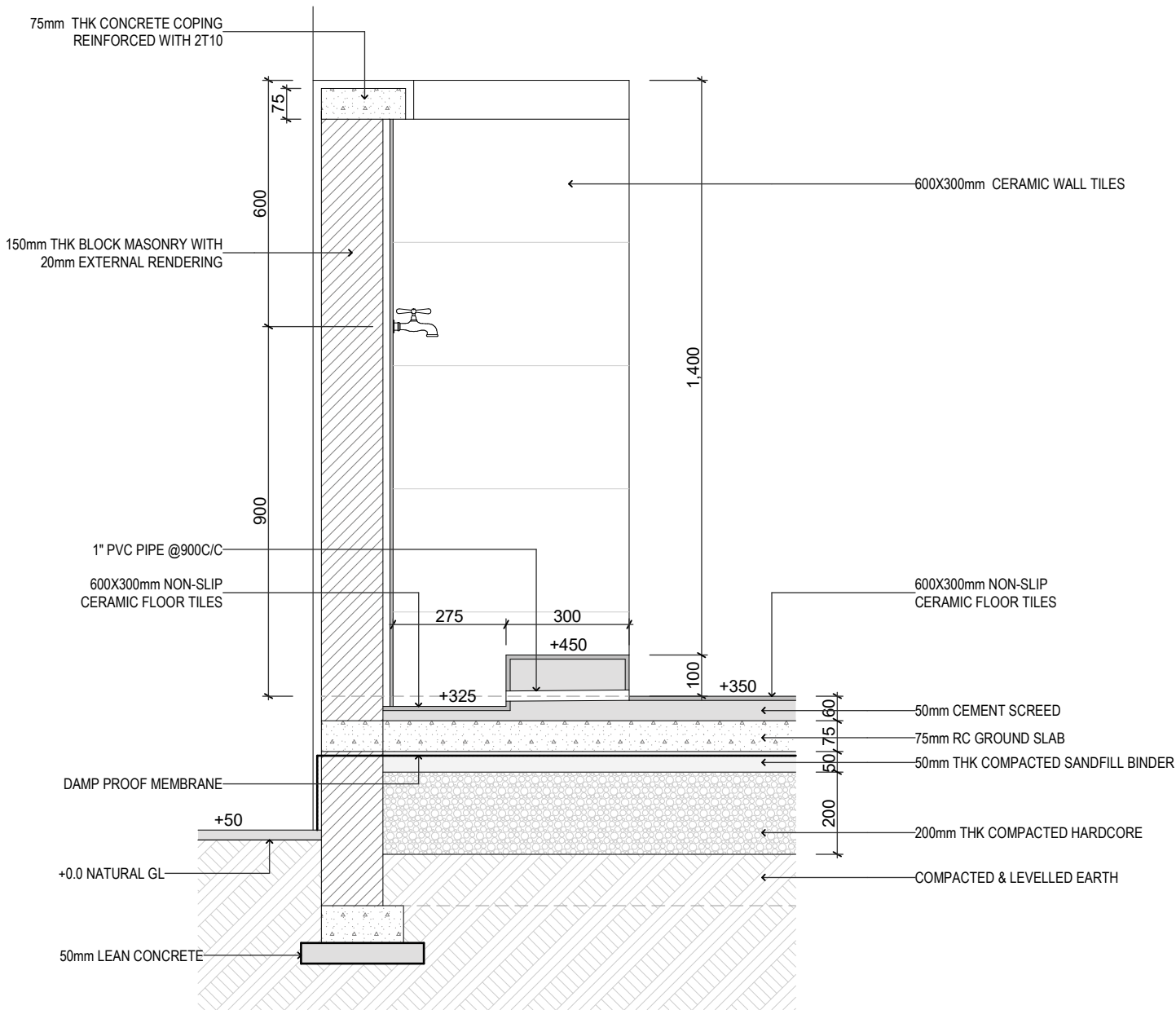
STEPS SECTION



RAMP SECTION

STEPS AND RAMP DETAILS

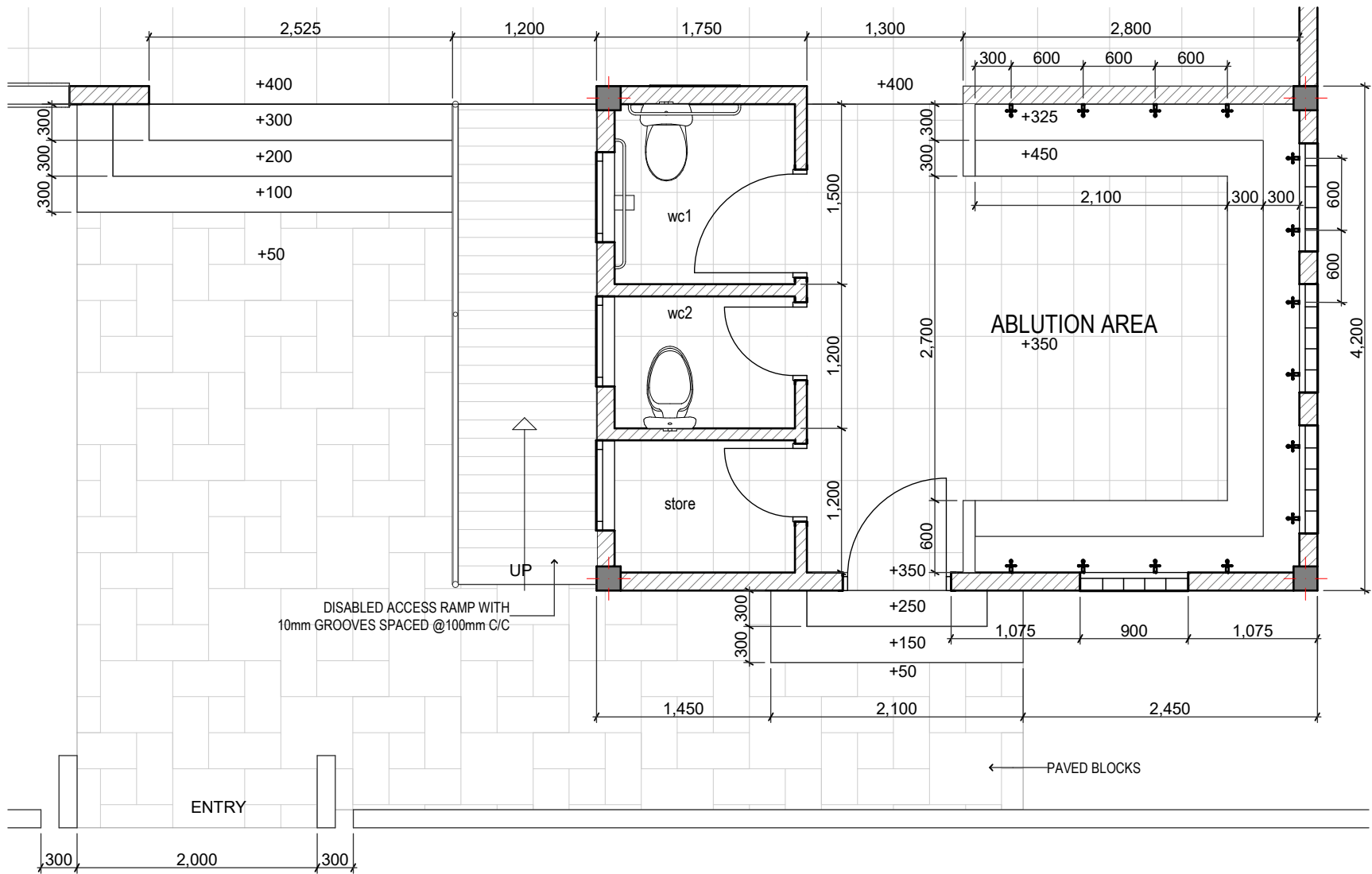
Scale: 1:25



SECTION

ABLUTION AREA DETAILS

Scale: 1:15



PLAN VIEW

ABLUTION AREA

Scale: 1:50

GENERAL NOTES

REVISIONS

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LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



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CONSULTANT PROJECT NO. R24002MA

ARCHITECT Ismail Rasheed

INT. DESIGNER #Int. Designer

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B. C.D.P. N.K.P. M.E.I

INFRA DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Mariyam Inasha Shareef

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PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

ISLAND

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BUILDING NAME

Mosque for 700 pax

BUILDING/STRUCTURE NO. ISSUE DATE

11/6/2024

DRAWING TITLES

Ablution Area & Details

TITLE2

TITLE3

TITLE4

SHEET SIZE A2 SCALE 1:25, 1:50, 1:15

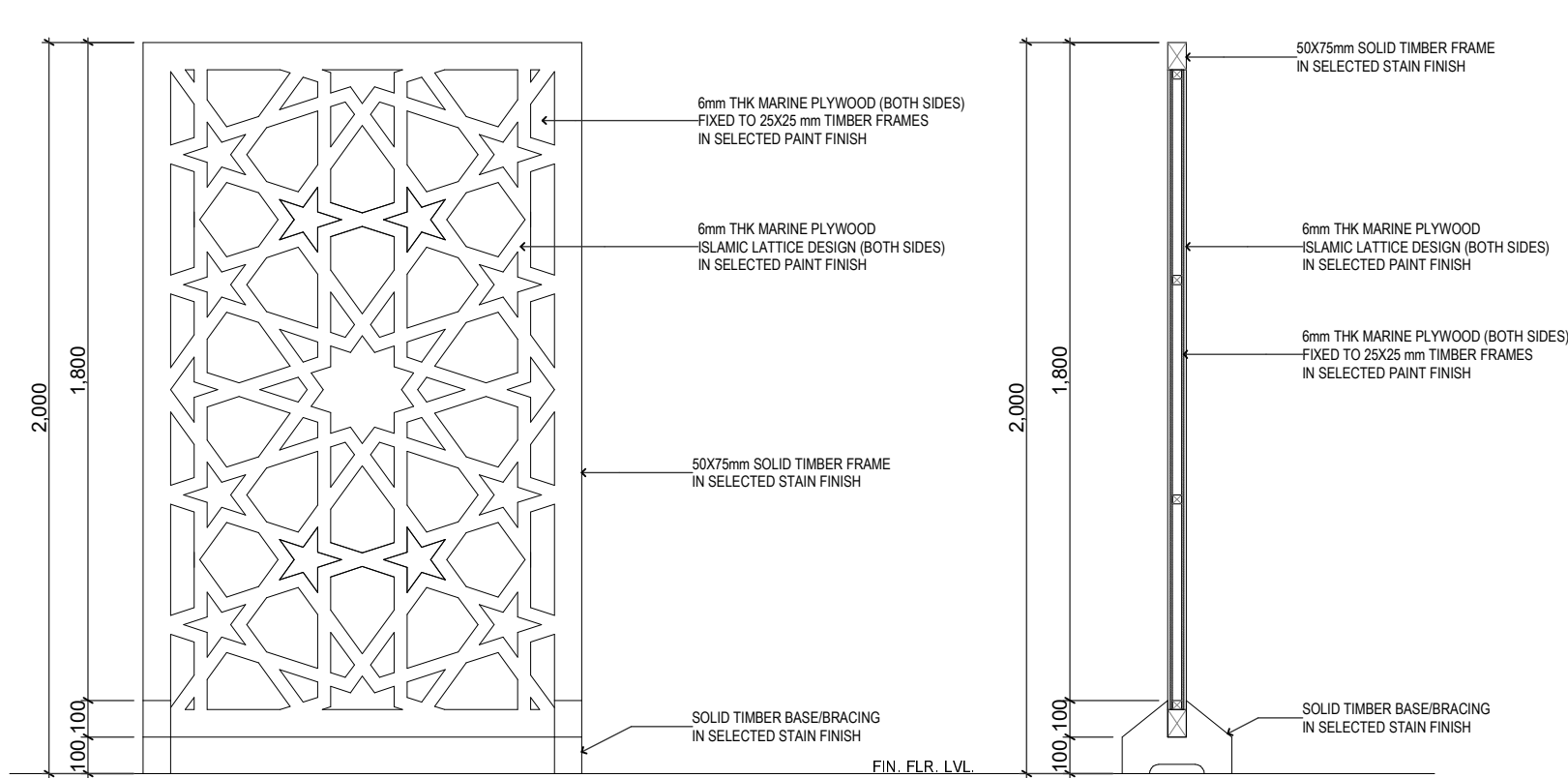
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A.06.4

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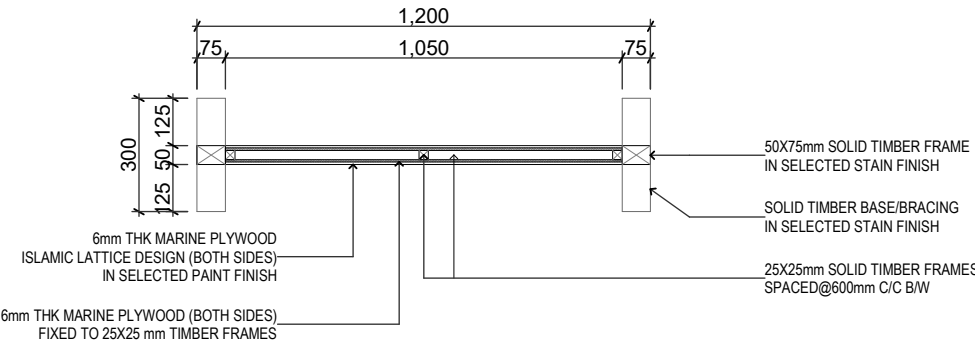
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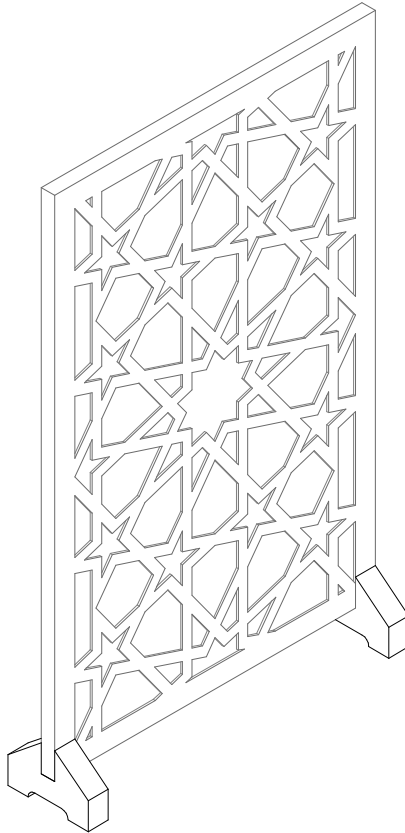


ELEVATION

SECTION



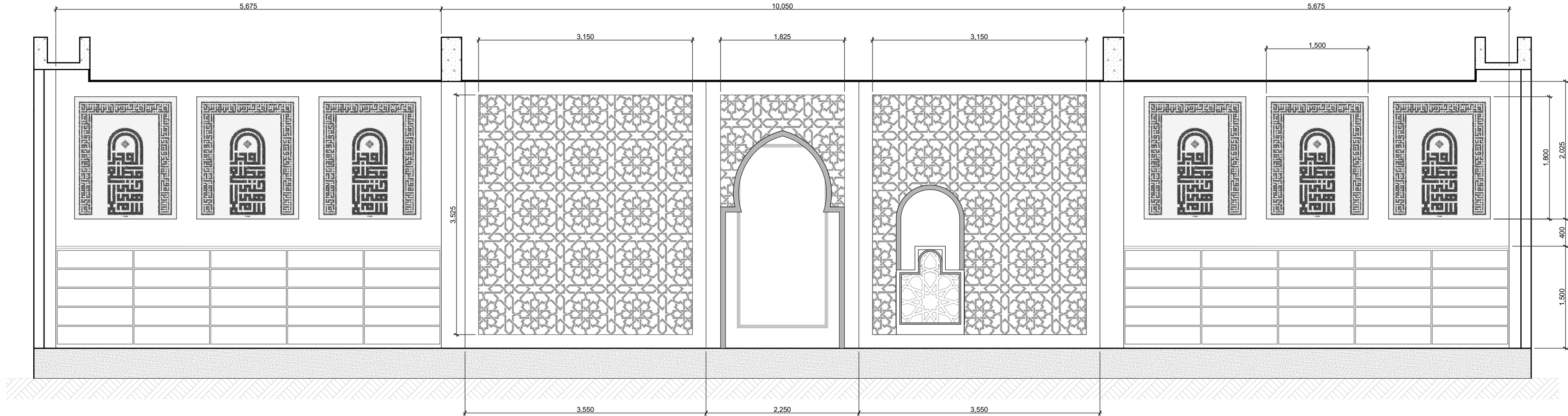
PLAN



ISOMETRIC VIEW

MOVABLE PRIVACY PARTITION DETAIL

Scale: 1:20



ELEVATION

FEATURED BACK WALL

Scale: 1:50

GENERAL NOTES

REVISIONS

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REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY

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INFRASTRUCTURE DESIGN

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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

INT. DESIGNER #Int. Designer

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B. C.D.P. N.K.P. M.E.I

INFRA. DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Mariyam Inasha Shareef

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PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

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LAGOON (GPS COORDINATES) latitude N, long. E

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BUILDING NAME

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BUILDING/STRUCTURE NO. ISSUE DATE

11/6/2024

DRAWING TITLES

Feature Details

TITLE2

TITLE3

TITLE4

SHEET SIZE A2 SCALE 1:20, 1:50

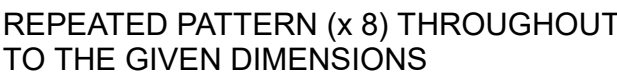
SHEET NO.

A.06.5

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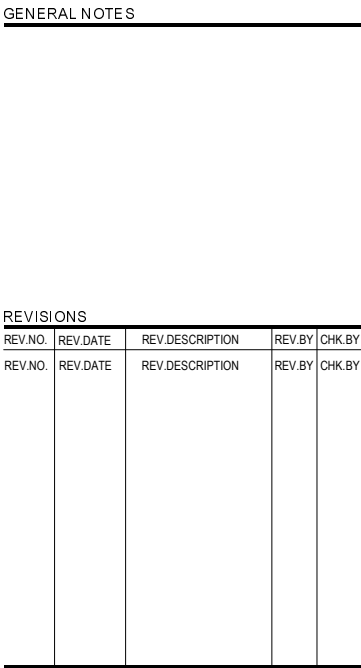
GEOMETRIC PATTERN DETAILS

Technical drawing of a square tile with a geometric pattern. The tile has a side length of 1,750 mm. The pattern consists of a grid of stars and polygons. A central star is highlighted with a thick gray border. Dimensions are provided for the tile and the pattern elements.

Dimensions:

- Tile side length: 1,750 mm
- Tile offset from edge: 75 mm
- Star width: 1,050 mm
- Star height: 893 mm
- Star offset from center: 173 mm
- Star thickness: 36 mm

PATTERN DESIGN FOR PARTITION SCREEN

[illegible]

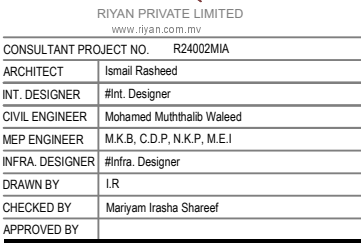
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INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

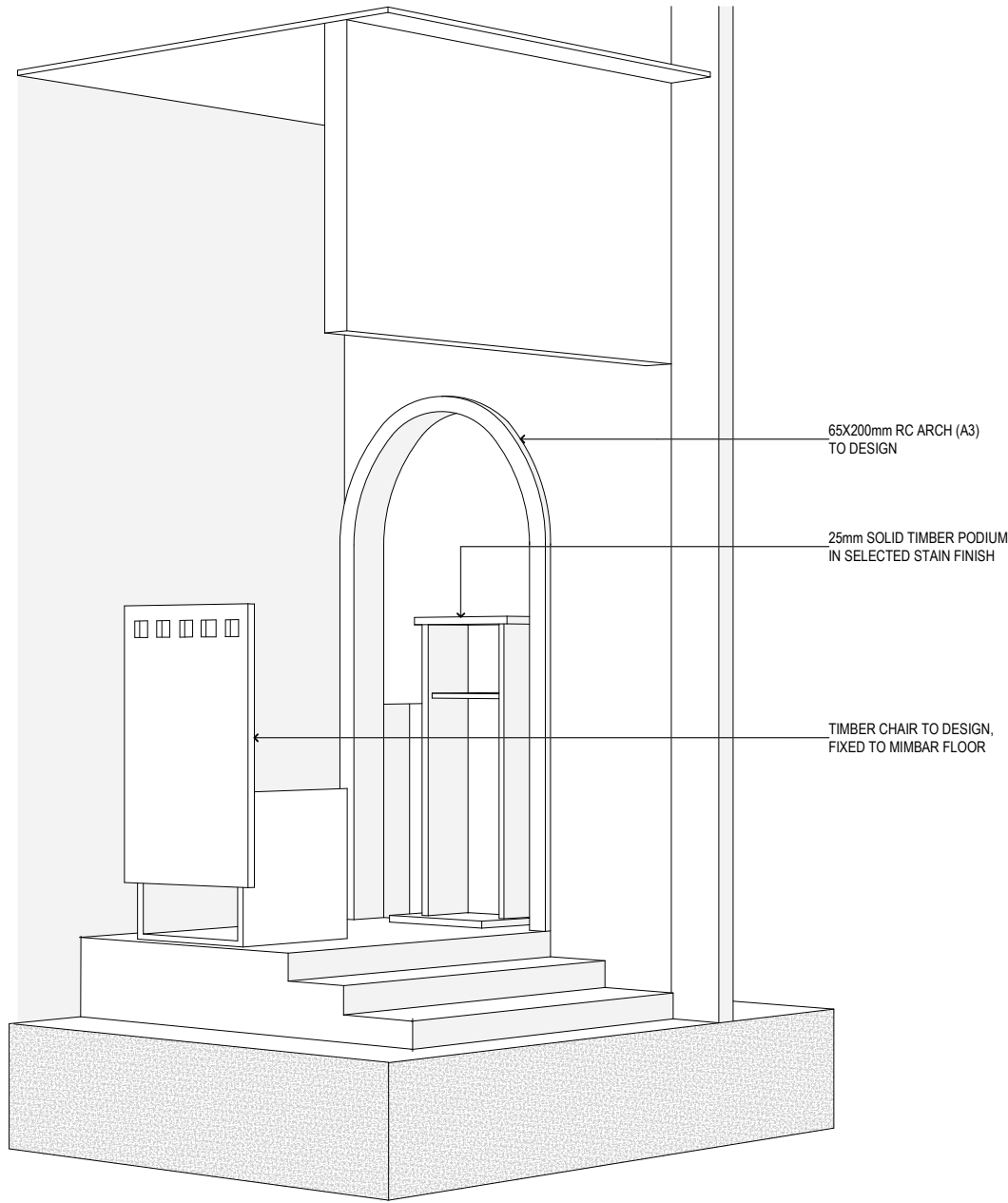
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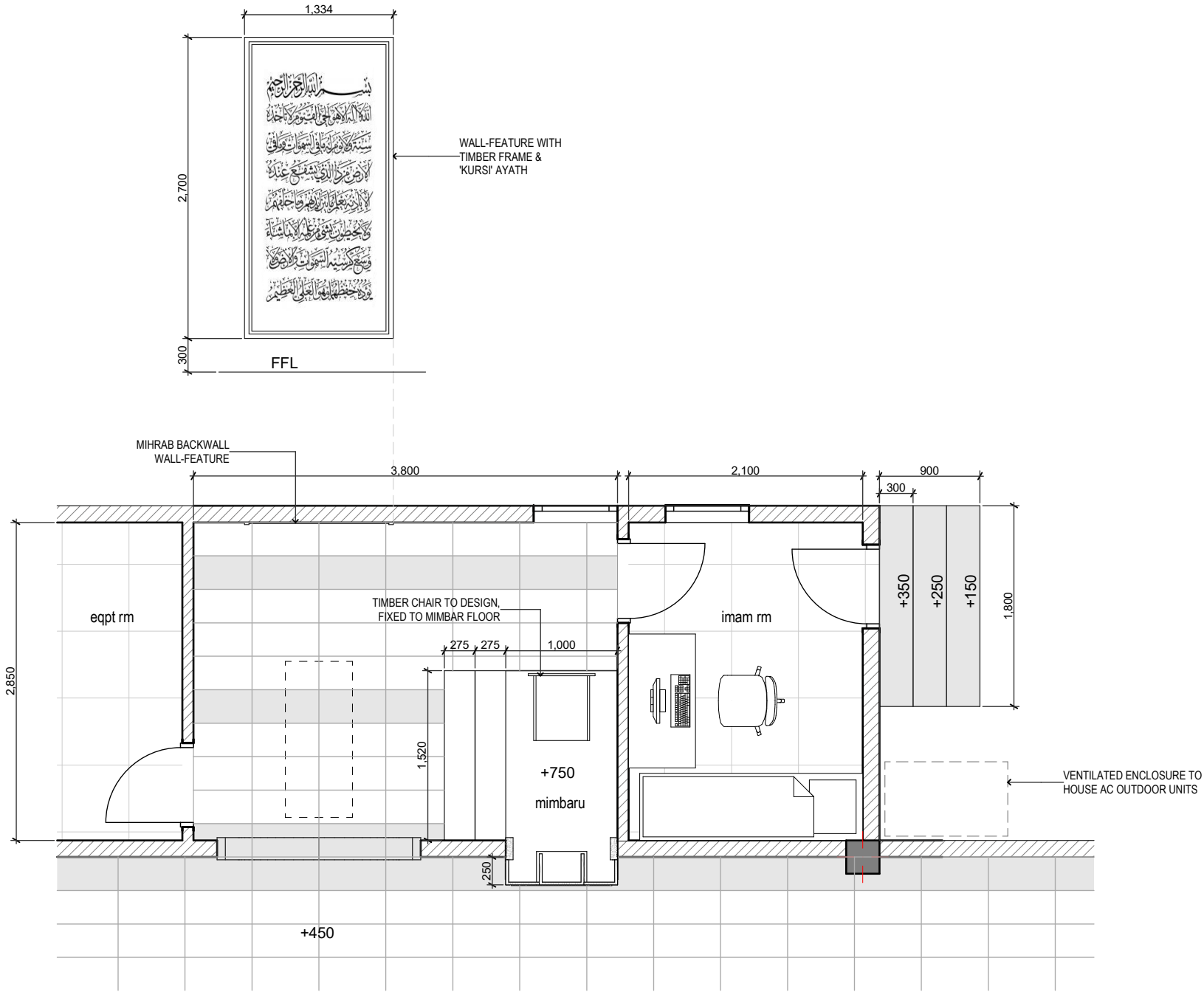
PROJECT NAME	
Prototype Mosques	
CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	
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DRAWING TITLES		
Geometric Patterns		
TITLE2		
TITLE3		
TITLE4		
SHEET SIZE	A2	SCALE 1:10
SHEET NO. A.06.6		

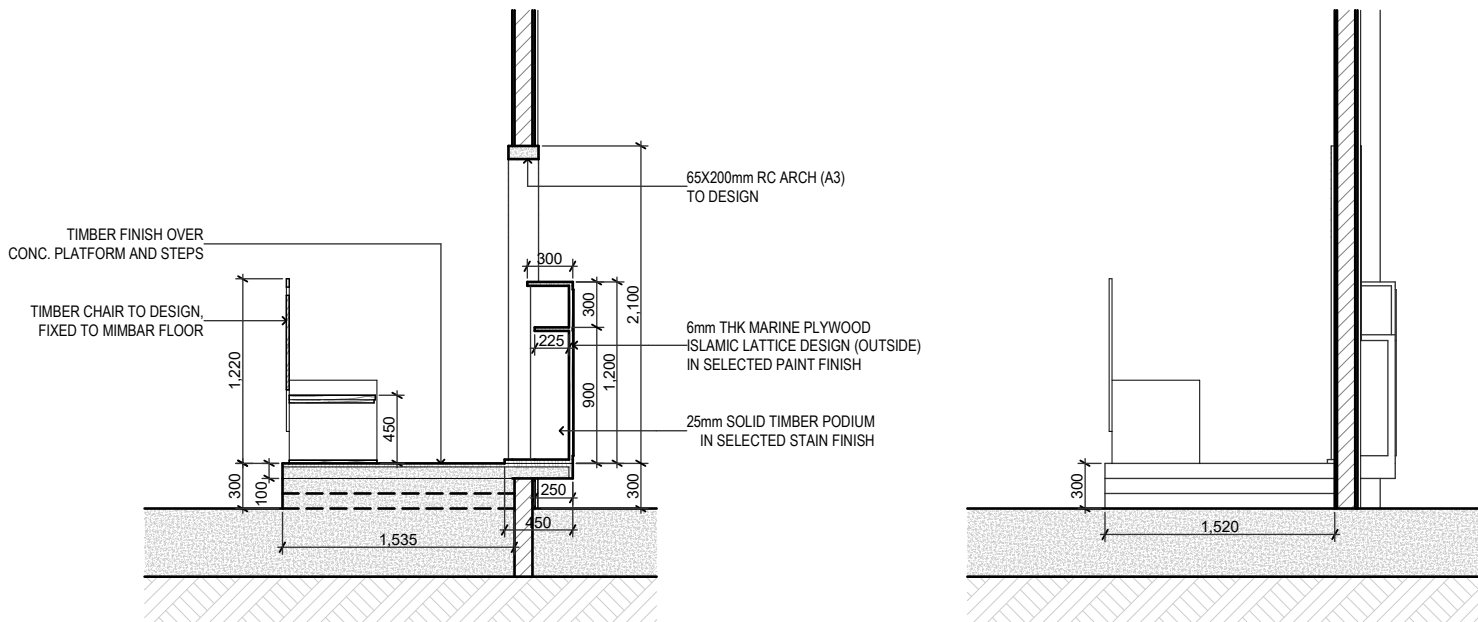
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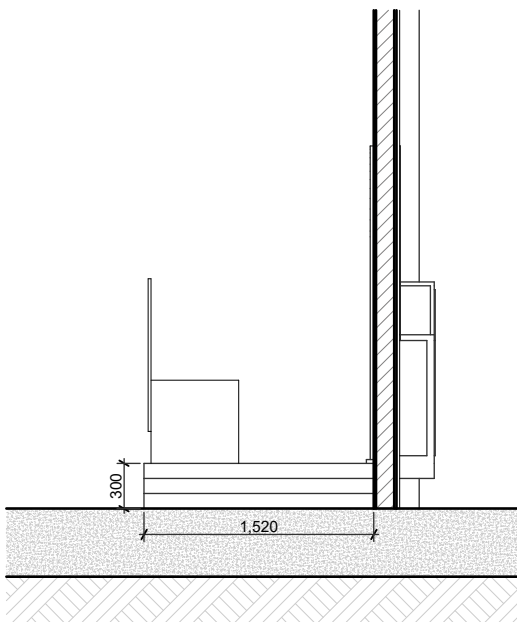
ISOMETRIC VIEW



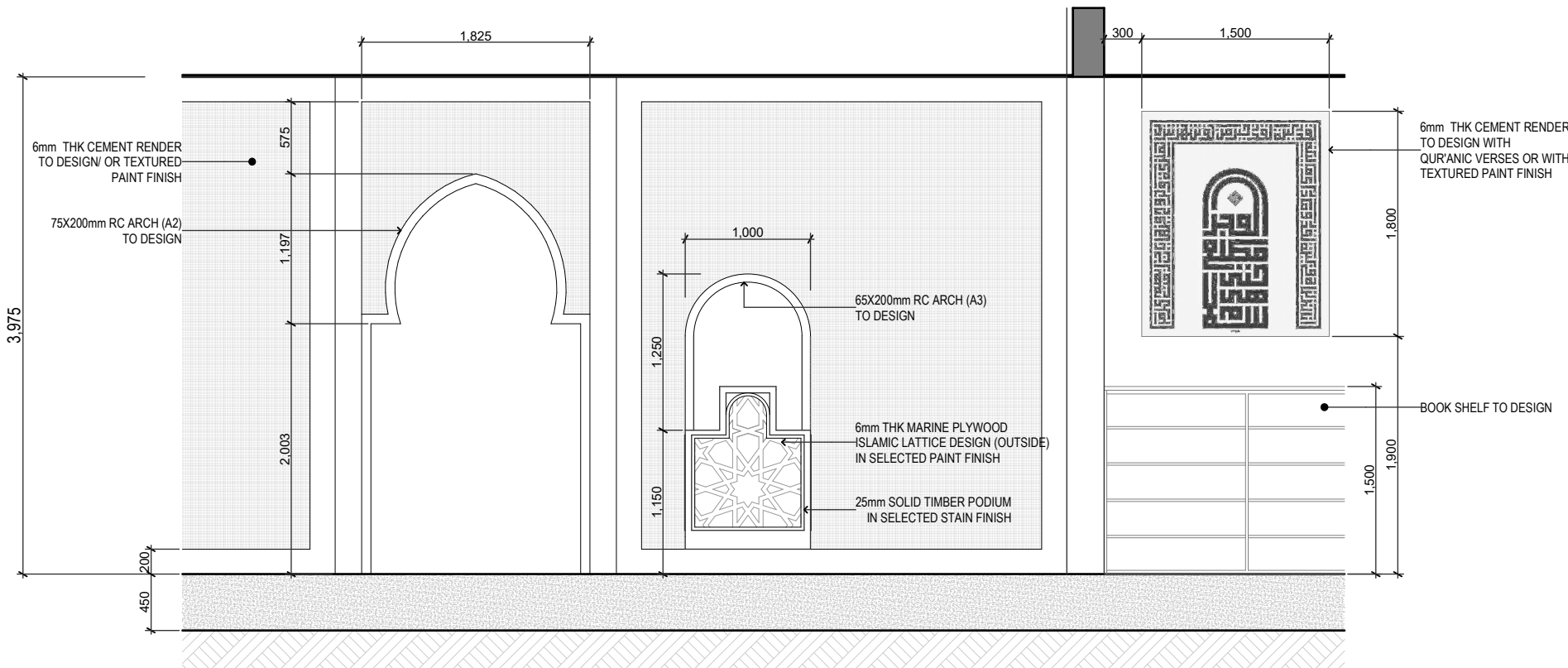
PLAN



SECTION



SECTION



ELEVATION


MIHRAB & IMAM ROOM AREA

Scale: 1:50

GENERAL NOTES

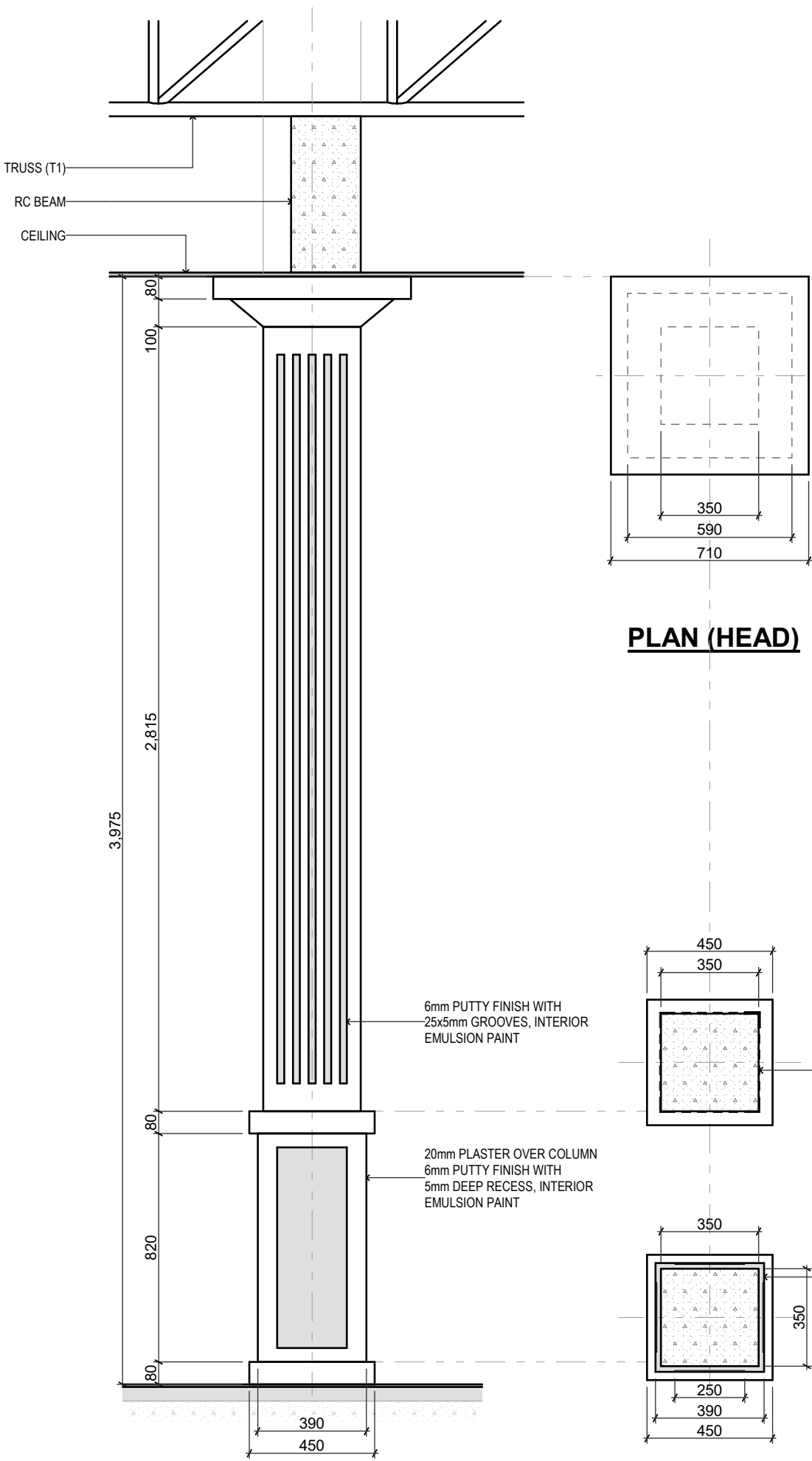
REVISIONS				
REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

CONSULTANTS	
LEAD CONSULTANT	
INFRASTRUCTURE DESIGN	
LANDSCAPE DESIGN	
REGISTERED LOCAL CONSULTANT	

	
RIYAN PRIVATE LIMITED	
CONSULTANT PROJECT NO. R24002MIA	
ARCHITECT	Ismail Rasheed
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B. C.D.P. N.K.P. M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

PROJECT NAME	
Prototype Mosques	
CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	latitude N, long. E
ISSUED FOR	DD - DETAIL DESIGN
BUILDING NAME	
Mosque for 700 pax	
BUILDING/STRUCTURE NO.	ISSUE DATE
	11/6/2024
DRAWING TITLES	
Mihrab & Mimbar Details	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	1:50
SHEET NO.	A.06.7

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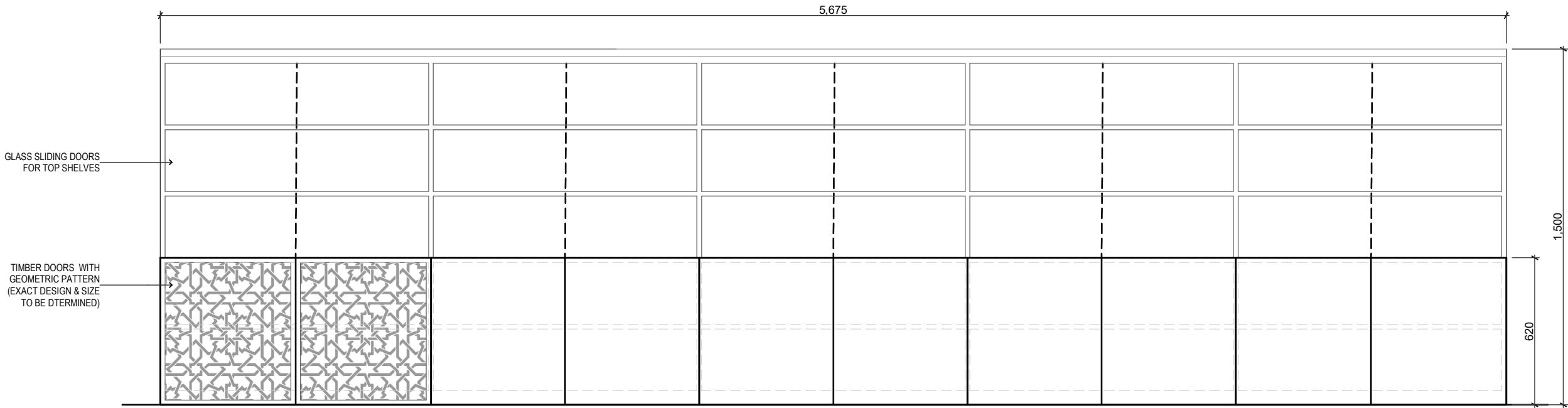
ELEVATION

DECORATIVE INTERIOR COLUMN

Scale: 1:25

PLAN (HEAD)

PLAN (BASE)

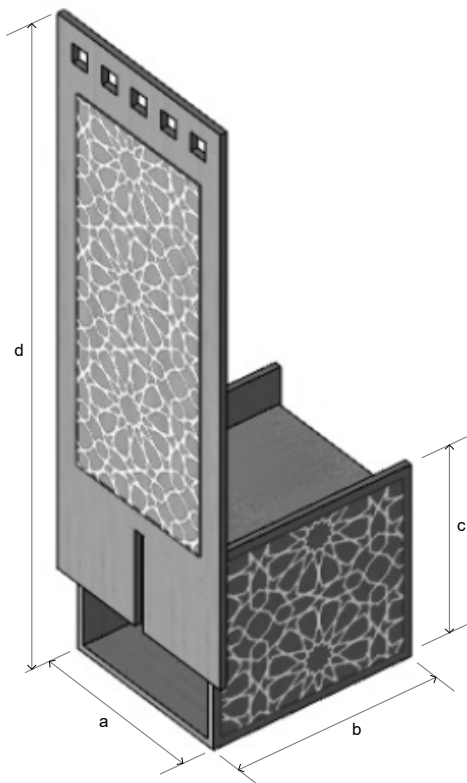


ELEVATION

BOOK SHELF DETAIL

Scale: 1:20

NOTES:
SHELVES TO BE EQUAL SIZES
DEPTH OF SHELF = 250mm MIN



a = 600 mm
b = 600 mm
c = 600 mm
d = 1800 mm
seat height = 450 mm

ISOMETRIC VIEW

MIMBAR CHAIR

Not to scale

GENERAL NOTES

REVISIONS

REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY
REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY

CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

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CONSULTANT PROJECT NO. R24002MIA

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INT. DESIGNER #Int. Designer

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INFRA. DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Mariyam Inasha Shareef

APPROVED BY

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES) latitude N, long. E

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

Mosque for 700 pax

BUILDING/STRUCTURE NO. ISSUE DATE

23/6/2024

DRAWING TITLES

Interior Details

TITLE2

TITLE3

TITLE4

SHEET SIZE A2 SCALE 1:20

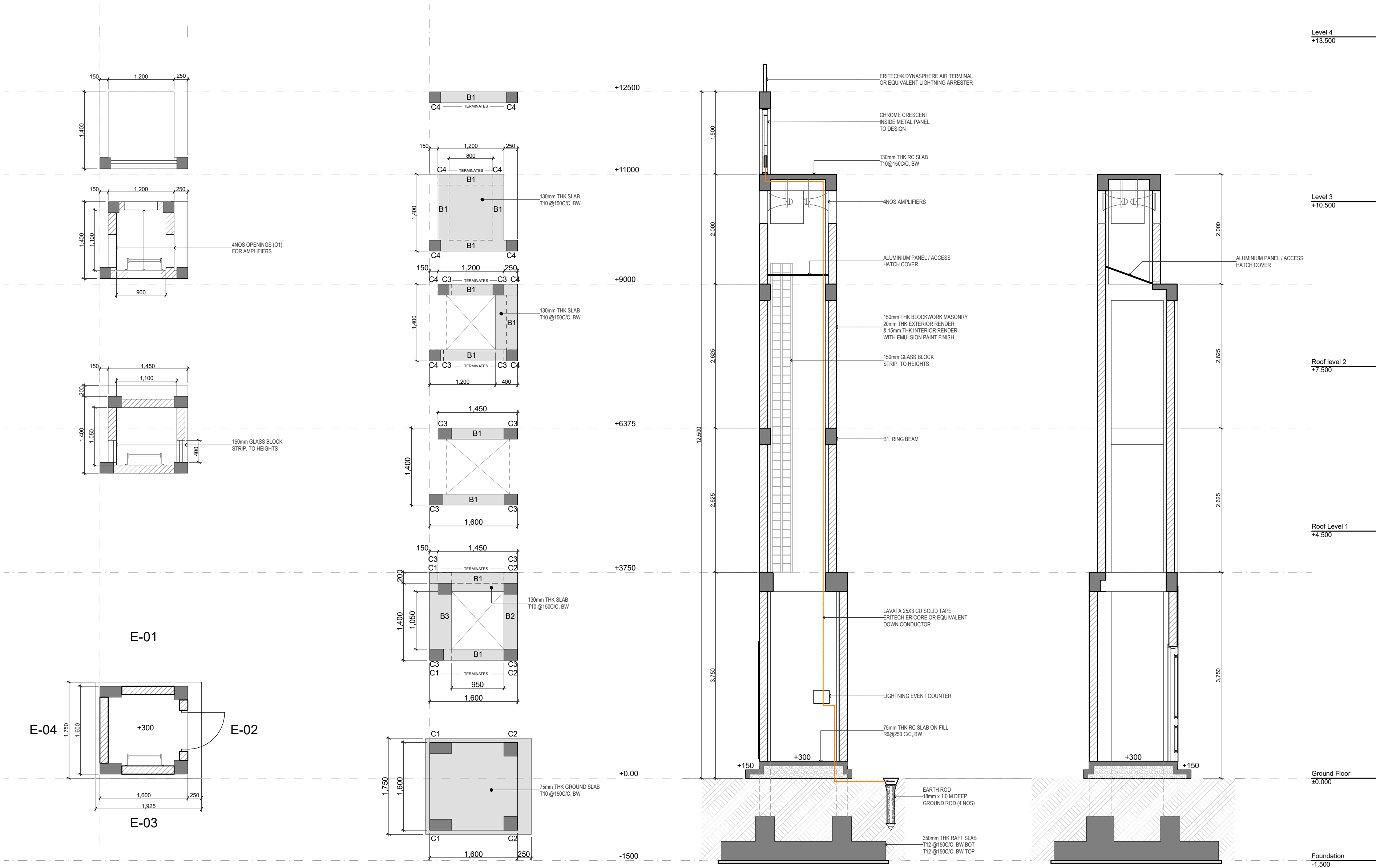
SHEET NO.

A.06.8

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GENERAL NOTES

REVISIONS				
REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY

CONSULTANTS	
LEAD CONSULTANT	
INFRASTRUCTURE DESIGN	
LANDSCAPE DESIGN	
REGISTERED LOCAL CONSULTANT	

CONSULTANT PROJECT NO. R24002MA	
ARCHITECT	Ismail Rasheed
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B. C.D.P. N.K.P. M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

PROJECT NAME	
Prototype Mosques	
CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	latitude N, long. E
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BUILDING NAME	
Mosque for 700 pax	
BUILDING/STRUCTURE NO.	ISSUE DATE
	11/6/2024

DRAWING TITLES	
Minaret Details	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	1:50
SHEET NO.	A.07.1

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Level 4
+13,500

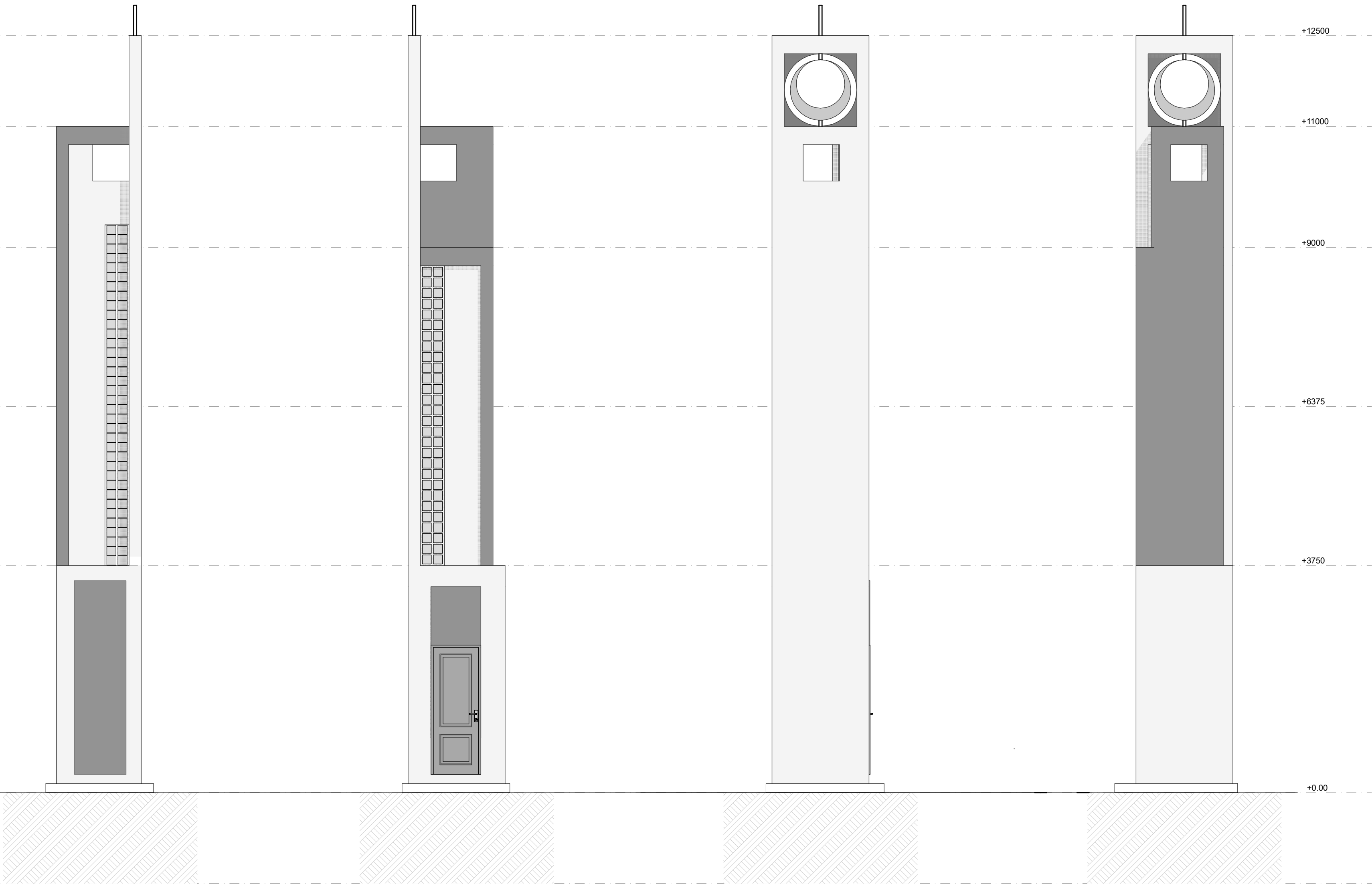
Level 3
+10,500

Roof level 2
+7,500

Roof Level 1
+4,500

Ground Floor
±0

Foundation
-1,500



E-04 WEST ELEVATION

E-02 EAST ELEVATION

E-03 SOUTH ELEVATION

E-01 NORTH ELEVATION

MINARET DETAILS
Scale: 1:50

GENERAL NOTES

REVISIONS				
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CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



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CLIENT Ministry of Islamic Affairs

DEVELOPER

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DRAWING TITLES

Minaret Details

TITLE2

TITLE3

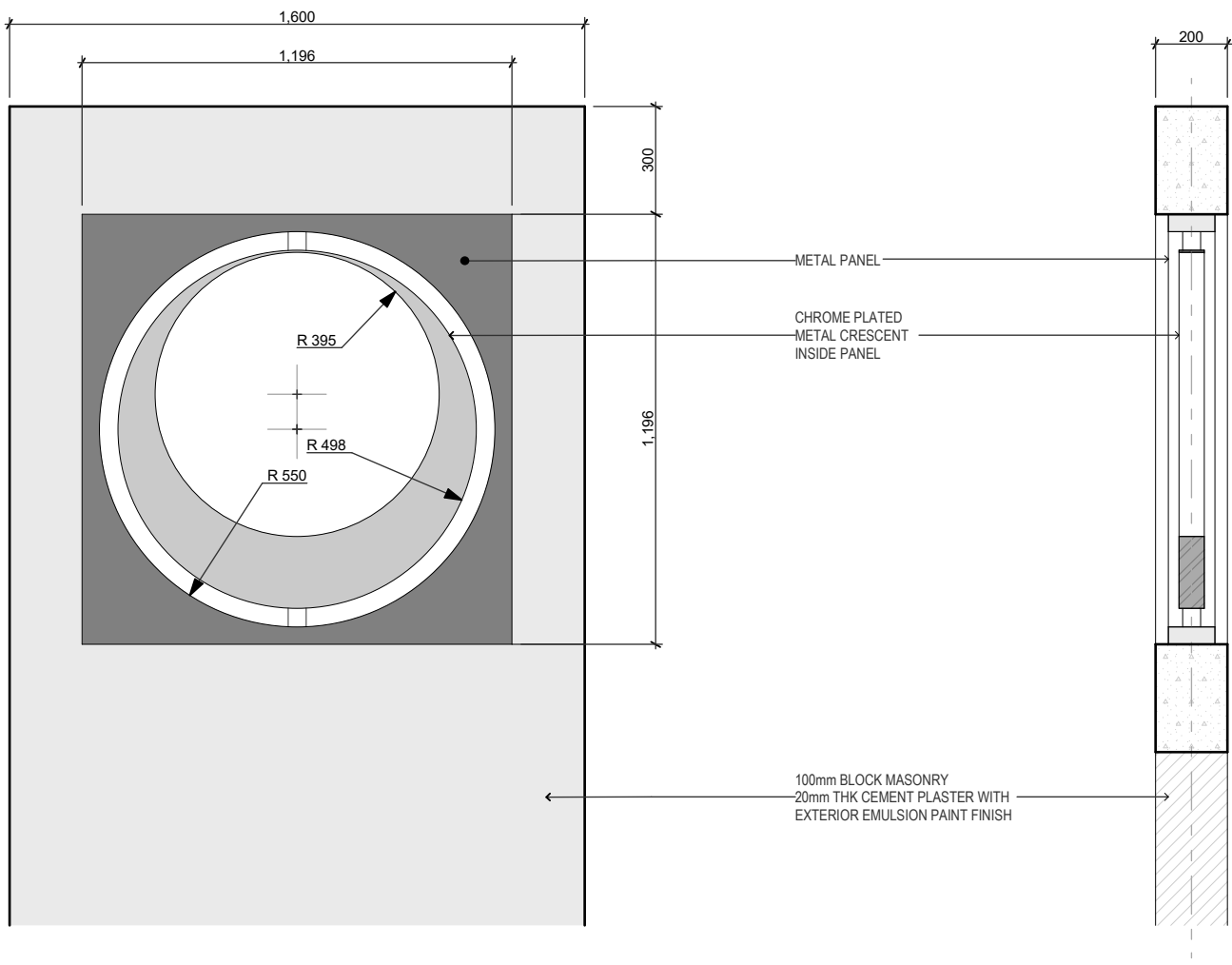
TITLE4

SHEET SIZE A2 SCALE 1:50

SHEET NO.

A.07.2

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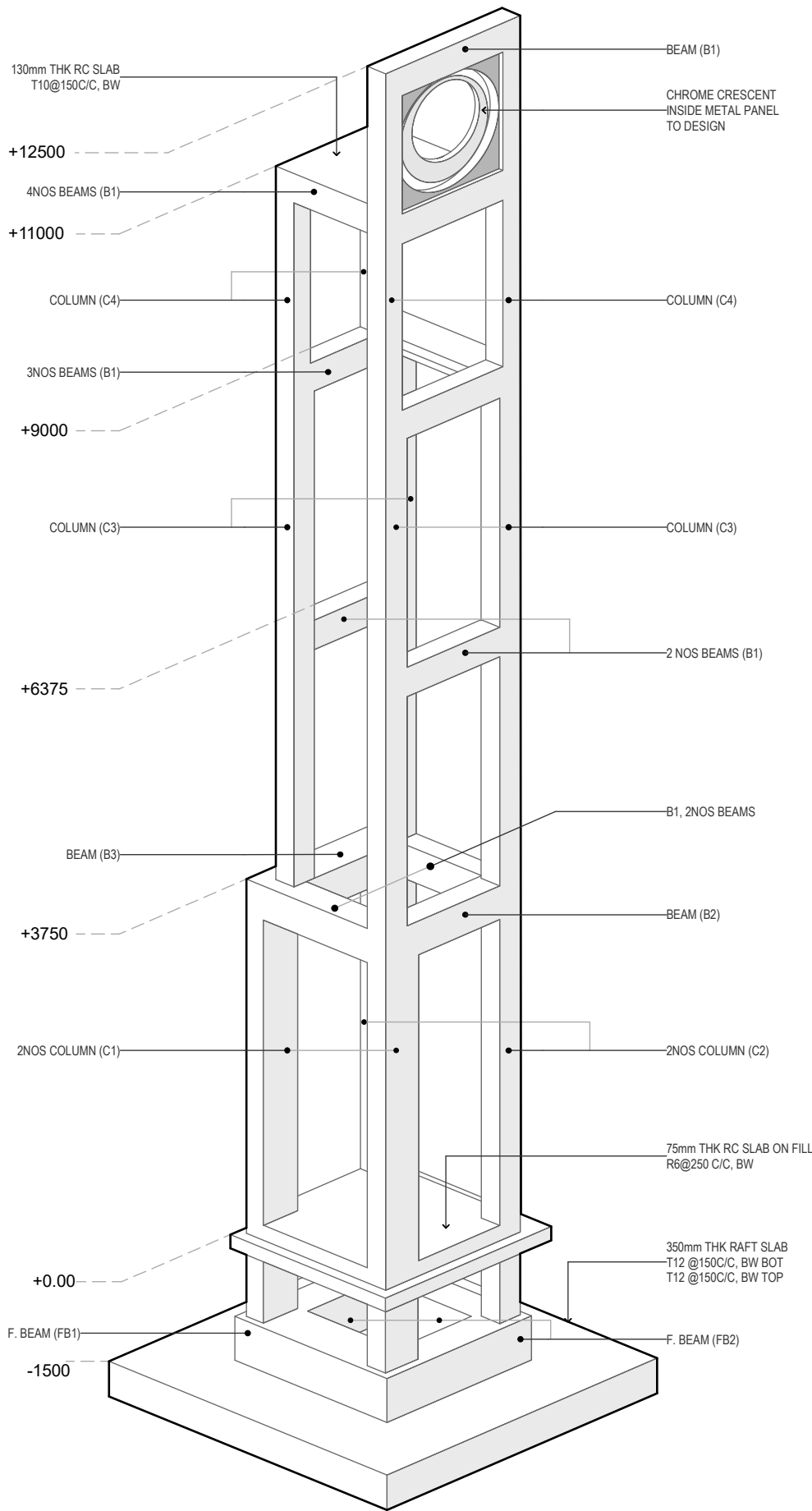
CRESCENT FEATURE DETAILS

B1	B2	B3	
FB1	FB2		
C1	C2	C3	C4

STRUCTURAL DETAILS

MINARET STRUCTURE

Scale: 1:20



MINARET FRAME: ISOMETRIC VIEW
Not to Scale

NOTES:

FOUNDATION DEPTH = -1500mm FROM NGL
50mm LEAN CONCRETE BELOW FOUNDATION
WITH 1000 GAUGE POLYTHENE.

COVER: 50mm FOR ALL FACES

GENERAL NOTES

REVISIONS

REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY

CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



RYAN PRIVATE LIMITED

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rashheed

INT. DESIGNER #Int. Designer

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B. C.D.P. N.K.P. M.E.I

INFRA. DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Mariyam Inasha Shareef

APPROVED BY

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

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SHEET SIZE A2 SCALE 1:20

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A.07.3

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GENERAL NOTES

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

1.0 VERIFICATION OF DIMENSIONS AND LEVELS

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

2.0 SHOP DRAWINGS

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

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3.0 INCORPORATION OF M&E REQUIREMENTS IN THE STRUCTURE

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

4.0 LEAN CONCRETE FOR SUSPENDED STRUCTURES

•UNLESS OTHERWISE STATED, 50 MM THICK LEAN CONCRETE WITH A MINIMUM 28-DAY CUBE STRENGTH OF 15N/MM2 SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF STRUCTURAL CONCRETE MEMBERS.

5.0 STRUCTURAL ELEMENTS ON GRADE

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

6.0 SUBGRADE UNDER STRUCTURAL ELEMENTS

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

7.0 WATERPROOFING FOR STRUCTURES

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

8.0 CASTING LAYERS

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

9.0 FOUNDATIONS

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

10.0 CONSTRUCTION LOAD AND SHORING

•CONSTRUCTION LIVE LOAD IMPOSED ON ANY SINGLE FLOOR SHALL NOT EXCEED 1.5 KN/M2. UNLESS OTHERWISE APPROVED BY THE ENGINEER, DEAD LOAD OF THE TOP CONSTRUCTION FLOOR SHALL BE SUPPORTED BY TWO COMPLETED FLOORS DIRECTLY BELOW IT.
•PROPS TO BEAMS AND SLABS AT ANY FLOORS SHALL NOT BE REMOVED UNTIL THE TWO IMMEDIATE FLOORS ABOVE THAT LEVEL ARE CAPABLE OF SUPPORTING THEMSELVES AS WELL AS ANY LOADS IMPOSED DURING CONSTRUCTION. CONSIDERATIONS GOVERNING REMOVAL OF PROPS INCLUDE BUT ARE NOT LIMITED TO THE ATTAINMENT OF 28-DAY STRENGTH FOR THE CONCRETE, DESIGN LOAD CAPACITY OF THE FLOOR UNDER REVIEW AND THE COMPLETION OF PRESTRESSING AND GROUTING OPERATIONS IN THE CASE OF A PRESTRESSED STRUCTURAL FLOOR SYSTEM.

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

11.0 CONCRETE COVER

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

STRUCTURAL ELEMENT	COVER (mm)
RAFT BEAM & SLAB (EARTH FACE)	50
RAFT BEAM & SLAB (INTERNAL FACE)	50
COLUMN	40
BEAM	40
BEAM (EXTERNAL FACE)	40
SLAB	30
INTERNAL WALL	30
EXTERNAL WALL	40

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

12.0 MATERIAL STRENGTHS

12.1 CONCRETE

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

MAIN BUILDING

LEAN CONCRETE	15 N/mm2
MASS CONCRETE	30 N/mm2
COLUMN, BEAM AND SLAB	30 N/mm2

EXTERNAL WORK

PAVEMENTS	15 N/mm2
ALL OTHERS (CULVERT,DRAINS, MANHOLE, ETC	30 N/mm2

FOUNDATION

PILECAP, FOOTING, RAFT TIE-BEAM, CAPPING BEAM	30 N/mm2
---	----------

•CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS 12.

20.0 STRUCTURAL STEEL SPECIFICATION

1. SEE 21.0 ON PRIMARY CODES AND SPECIFICATIONS.

2. MATERIALS:

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

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

23.0 POST-INSTALLED ANCHORS

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

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

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

12.2 REINFORCEMENT

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

MILD STEEL PLAIN BAR	250 N/mm2
HIGH TENSILE TYPE II DEFORMED BAR	500 N/mm2

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

	BAR GRADE 415
TENSION	45Ø
COMPRESSION	45Ø

Ø IS DIAMETER OF THE SMALLER SIZED LAPPED BAR.

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

13.0 STIRRUPS, LINKS AND TIES

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

14.0 SLAB DISTRIBUTION BARS

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

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

15.0 FLOOR RENDERING

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

16.0 SHRINKAGE CRACKS

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

17.0 STEEL BAR CORROSION PROTECTION

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

19.0 STRUCTURAL TIMBER SPECIFICATION

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

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

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

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

19.5 CONNECTIONS

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

19.6 TIMBER TREATMENT

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

REVISIONS

REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY
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CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT

RYAN PRIVATE LIMITED

www.ryanprivate.com

CONSULTANT PROJECT NO. R24002MA	
ARCHITECT	Ismail Rashied
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B. C.D.P. N.K.P. M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariam Inasha Shareef
APPROVED BY	

PROJECT NAME

Prototype Mosques

CLIENT	Ministry of Islamic Affairs
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DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)	latitude N, long. E
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BUILDING NAME

Mosque for 700 pax

BUILDING/STRUCTURE NO	ISSUE DATE
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DRAWING TITLES

General Notes 1

TITLE2

TITLE3

TITLE4

SHEET SIZE	A2	SCALE
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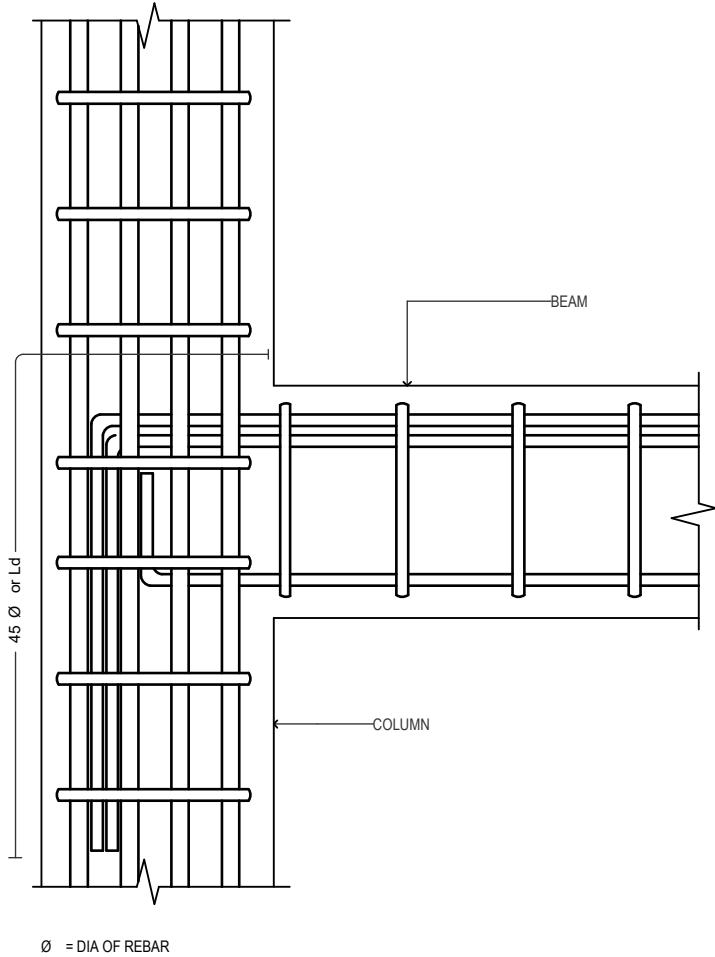
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S.01.1

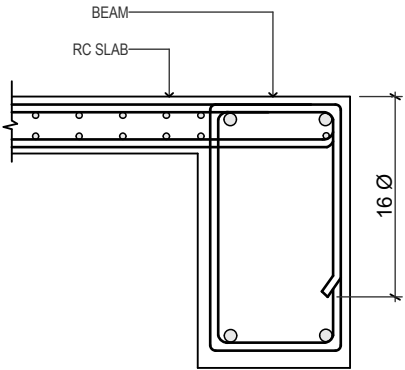
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18.0 SPACER BARS

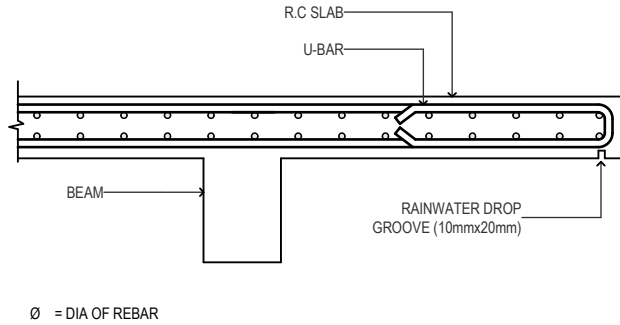
*ALL SPACER BARS BETWEEN 2 OR MORE LAYERS OF REINFORCEMENT SHALL T25 OR BAR DIAMETER (WHICHEVER IS GREATER) AT ±1.5M C/C.



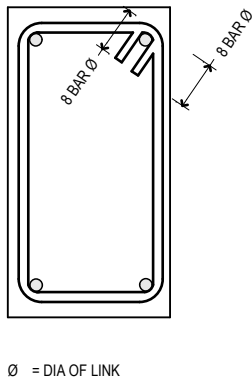
BEAM TO COLUMN CONNECTION



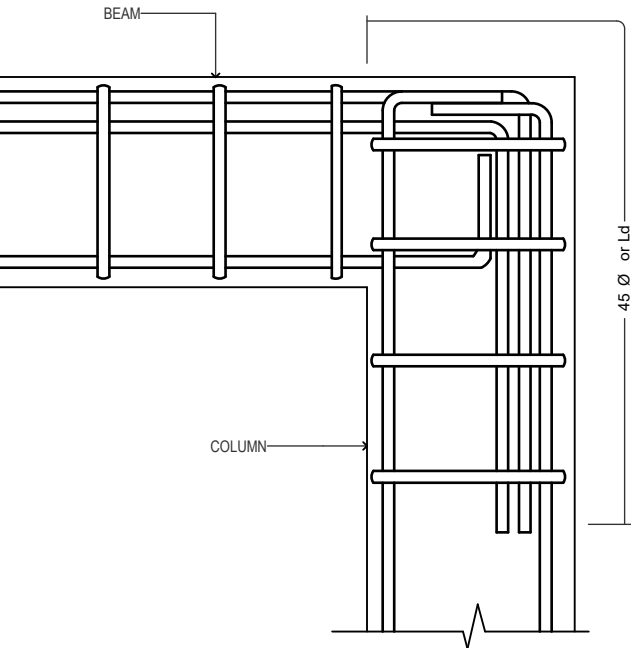
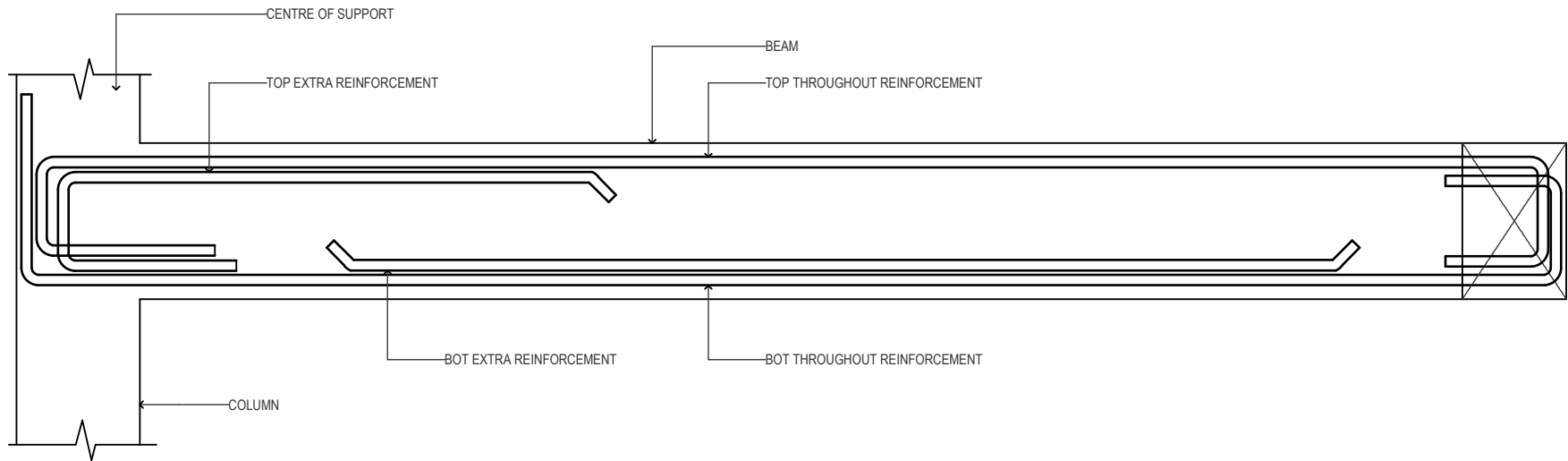
SLAB-BEAM ANCHORAGE DETAIL



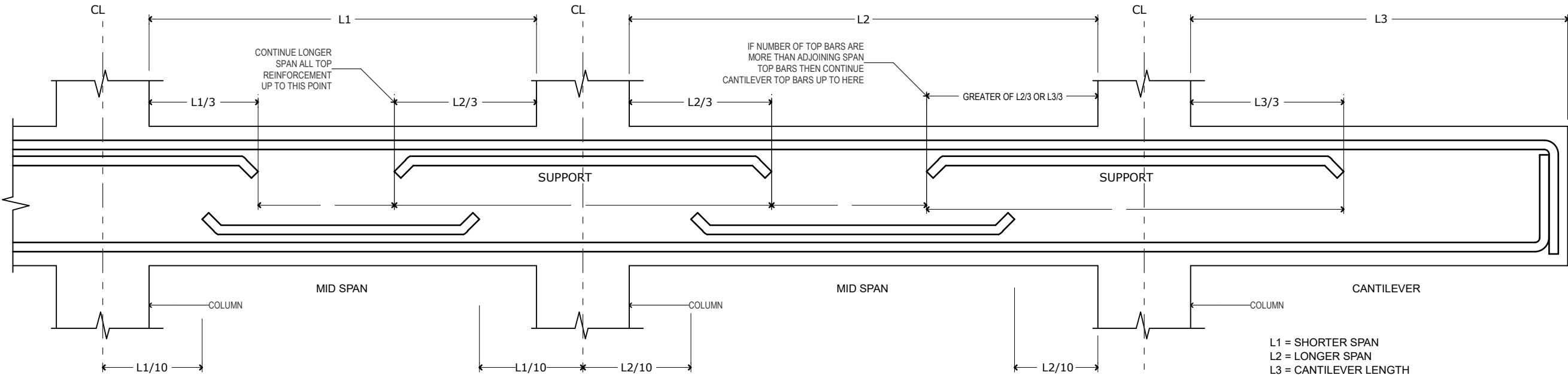
CANTILEVERED SLAB EDGE DETAIL



SHEAR LINKS ANCHORAGE DETAIL



END COLUMN TO BEAM CONNECTION



SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)

GENERAL NOTES 2

GENERAL NOTES

REVISIONS

REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

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LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



RYAN PRIVATE LIMITED

www.ryan.com.pk

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Iqbal Rasheed

INT. DESIGNER #Int. Designer

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B. C.D.P. N.K.P. M.E.I

INFRA DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Mariyam Insha Shareef

APPROVED BY

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES) latitude N, long. E

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

Mosque for 700 pax

BUILDING/STRUCTURE NO

ISSUE DATE

11/6/2024

DRAWING TITLES

General Notes 2

TITLE2

TITLE3

TITLE4

SHEET SIZE

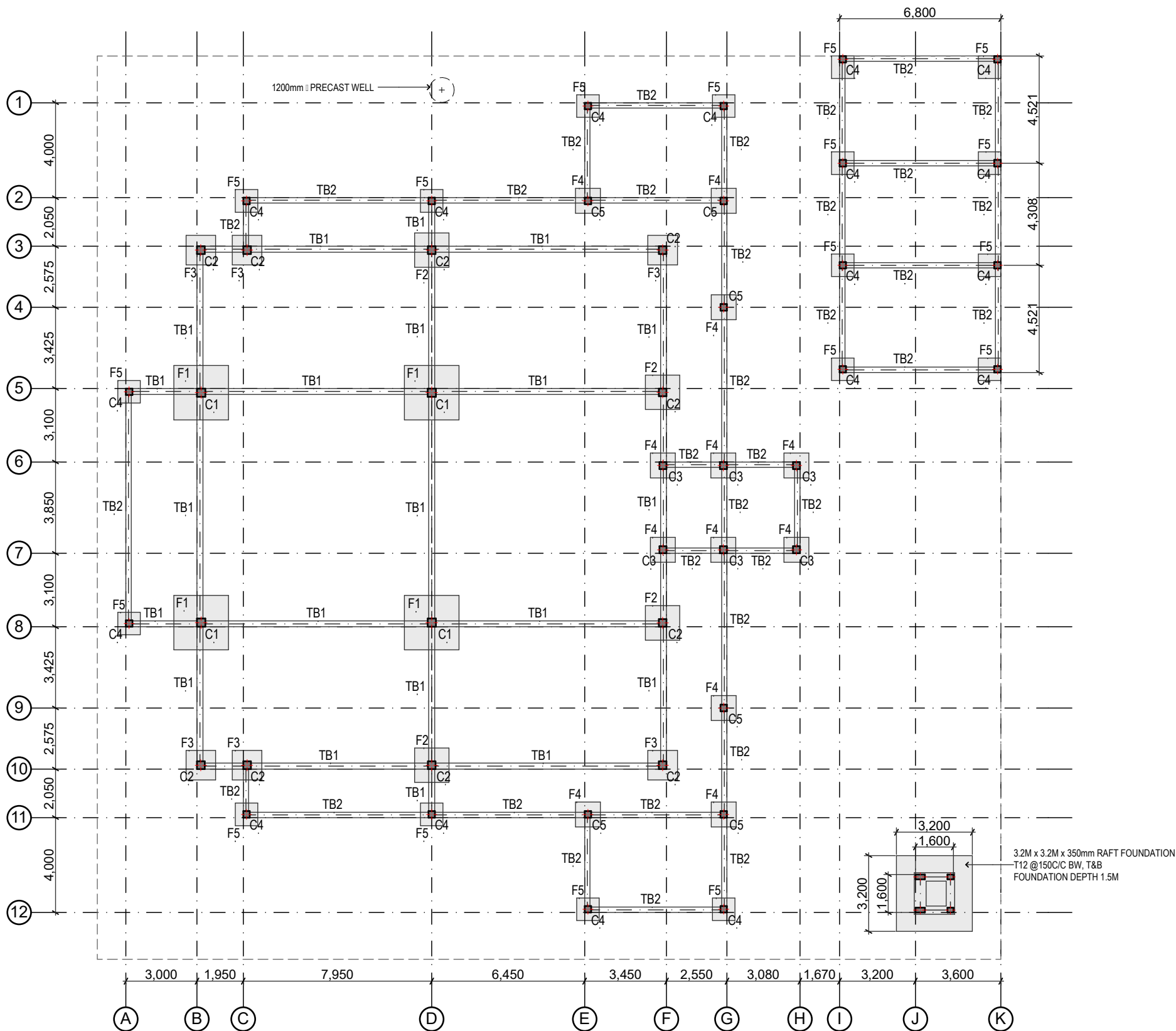
A2

SCALE

SHEET NO.

S.01.2

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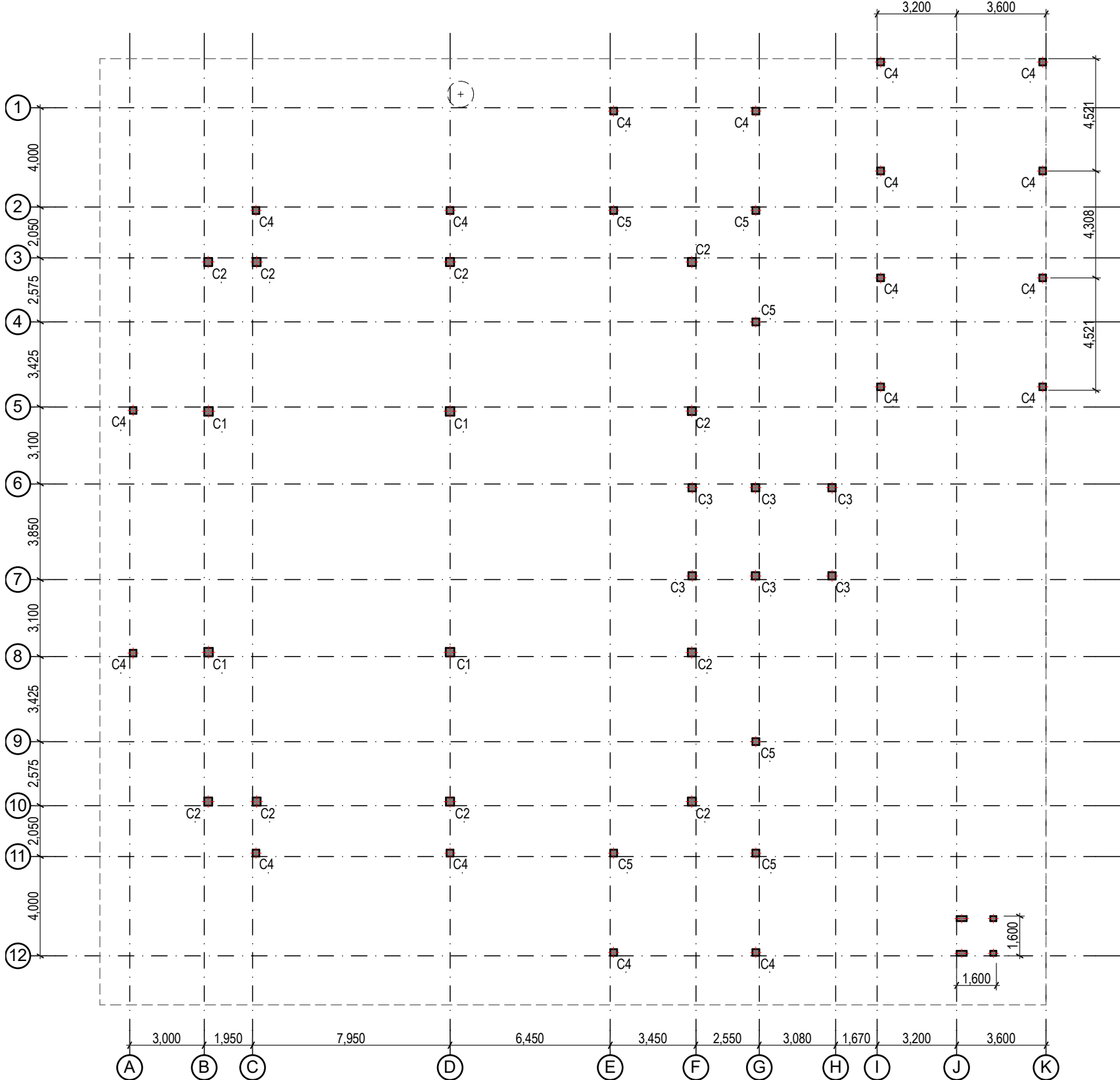
NOTES:
FOUNDATION DEPTH = 1200mm
ALL COLUMNS AS INDICATED
ALL TIE BEAMS AS INDICATED

ALL FOOTINGS TO BE LAID ON TOP
OF 50mm THICK LEAN CONCRETE

PAD NO	SIZE	REINFORCEMENT
F1	2300X2300X350	T16@150C/C BW, (B)
F2	1450X1450X300	T12@150C/C BW, (B)
F3	1250X1250X300	T12@150C/C BW, (B)
F4	1050X1050X300	T12@150C/C BW, (B)
F5	950 X 950X300	T12@150C/C BW, (B)

FOUNDATION PLAN

Scale: 1:200



COLUMNS & GRID LAYOUT

Scale: 1:200

GENERAL NOTES

REVISIONS

REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



RYAN PRIVATE LIMITED

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CONSULTANT PROJECT NO. R24002MA

ARCHITECT Ismail Rasheed

INT. DESIGNER #Int. Designer

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B. C.D.P. N.K.P. M.E.I

INFRA. DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Maryam Inasha Shareef

APPROVED BY

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES) latitude N, long. E

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Mosque for 700 pax

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11/6/2024

DRAWING TITLES

Foundation Layout

TITLE2

TITLE3

TITLE4

TITLE4

SHEET SIZE

A2

SCALE

1:200

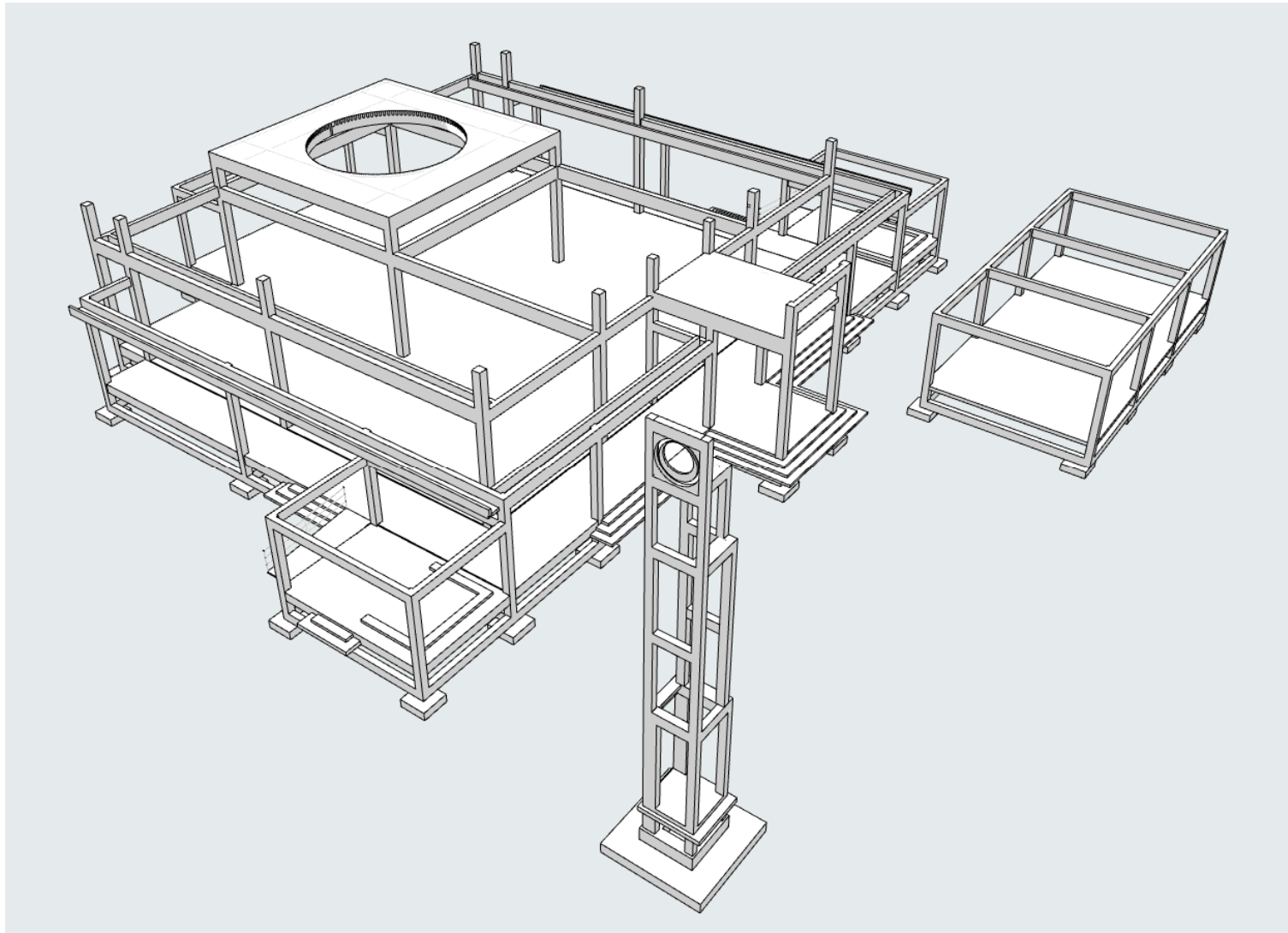
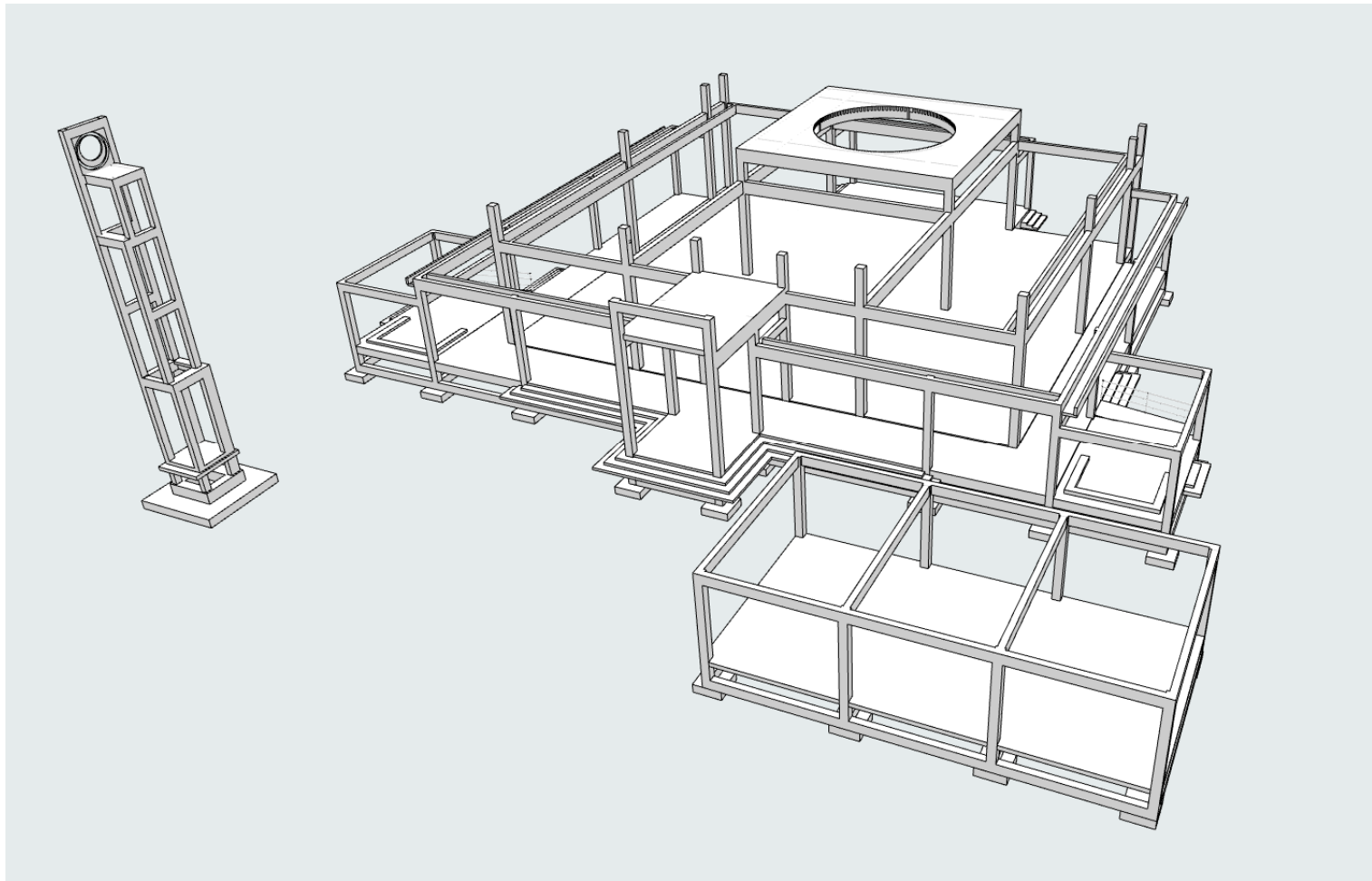
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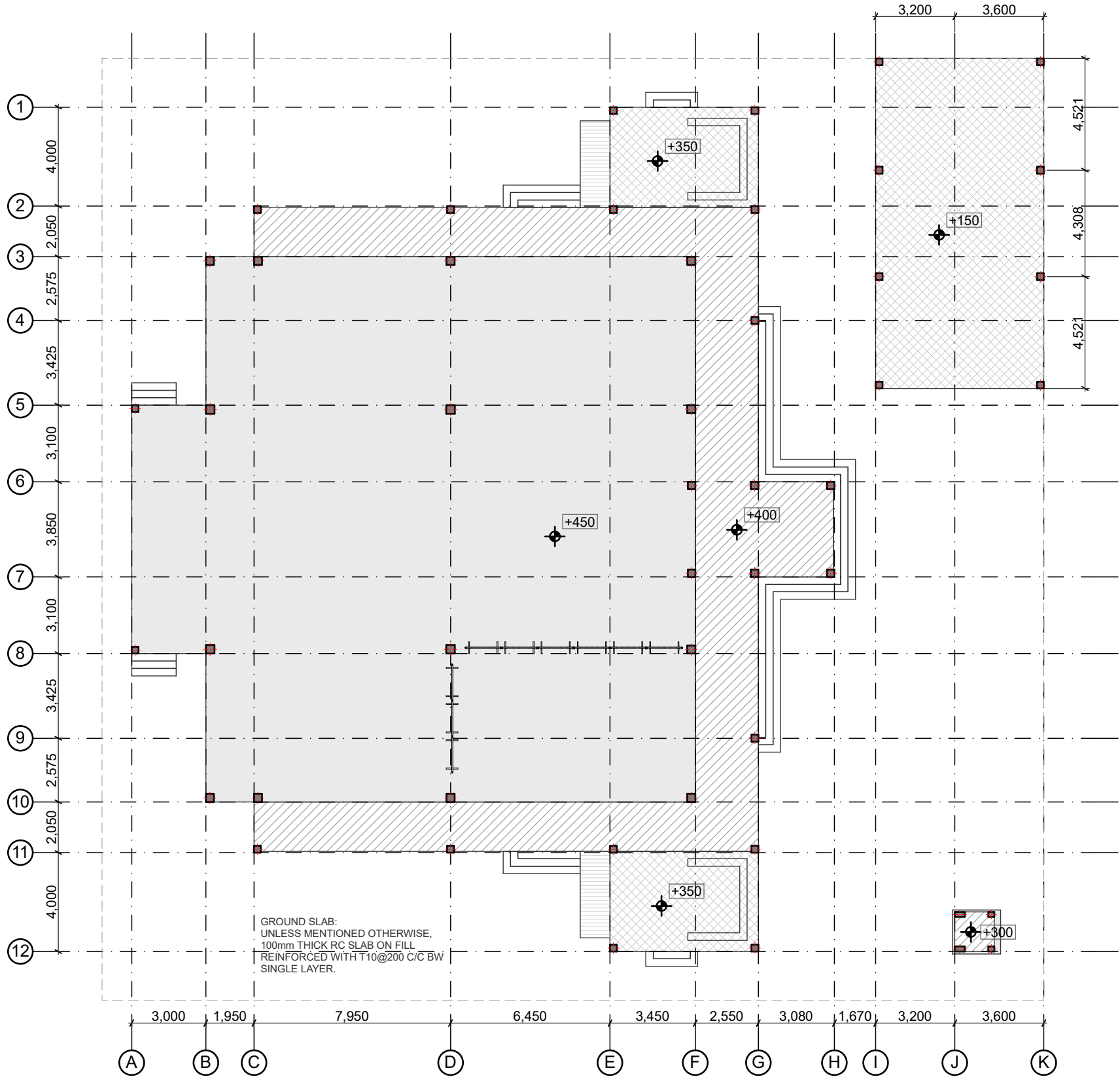
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3D MAIN FRAMEWORK
NTS



GROUND SLAB PLAN
Scale: 1:200

GENERAL NOTES

REVISIONS

REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY

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INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



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ARCHITECT Ismail Rasheed

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MEP ENGINEER M.K.B. C.D.P. N.K.P. M.E.I

INFRA. DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Mariyam Inasha Shareef

APPROVED BY

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES) latitude N, long. E

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

Mosque for 700 pax

BUILDING/STRUCTURE NO. ISSUE DATE

11/6/2024

DRAWING TITLES

Ground Slab Plan

TITLE2

TITLE3

TITLE4

SHEET SIZE A2 SCALE 1:200, 1:25

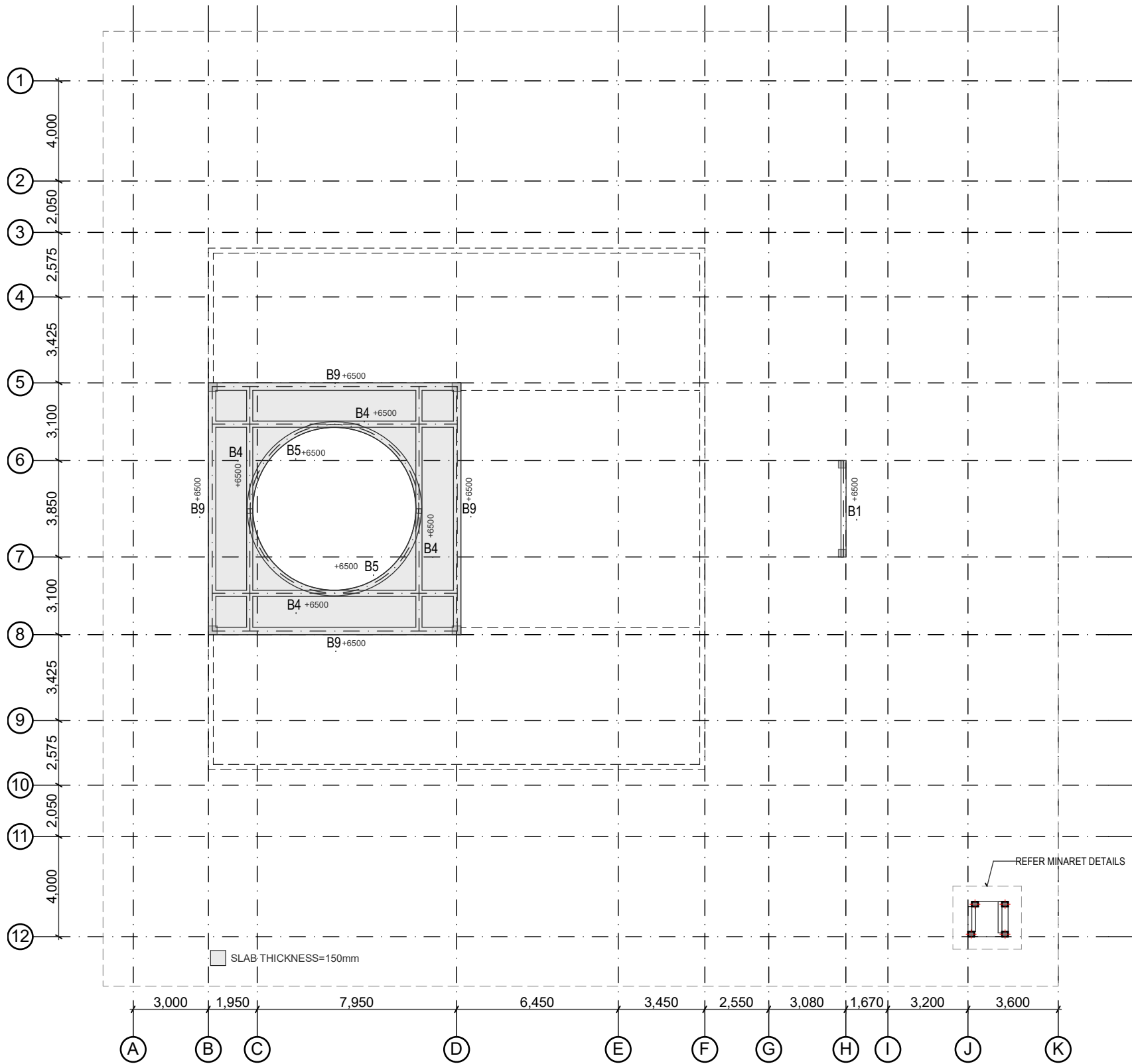
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S.014

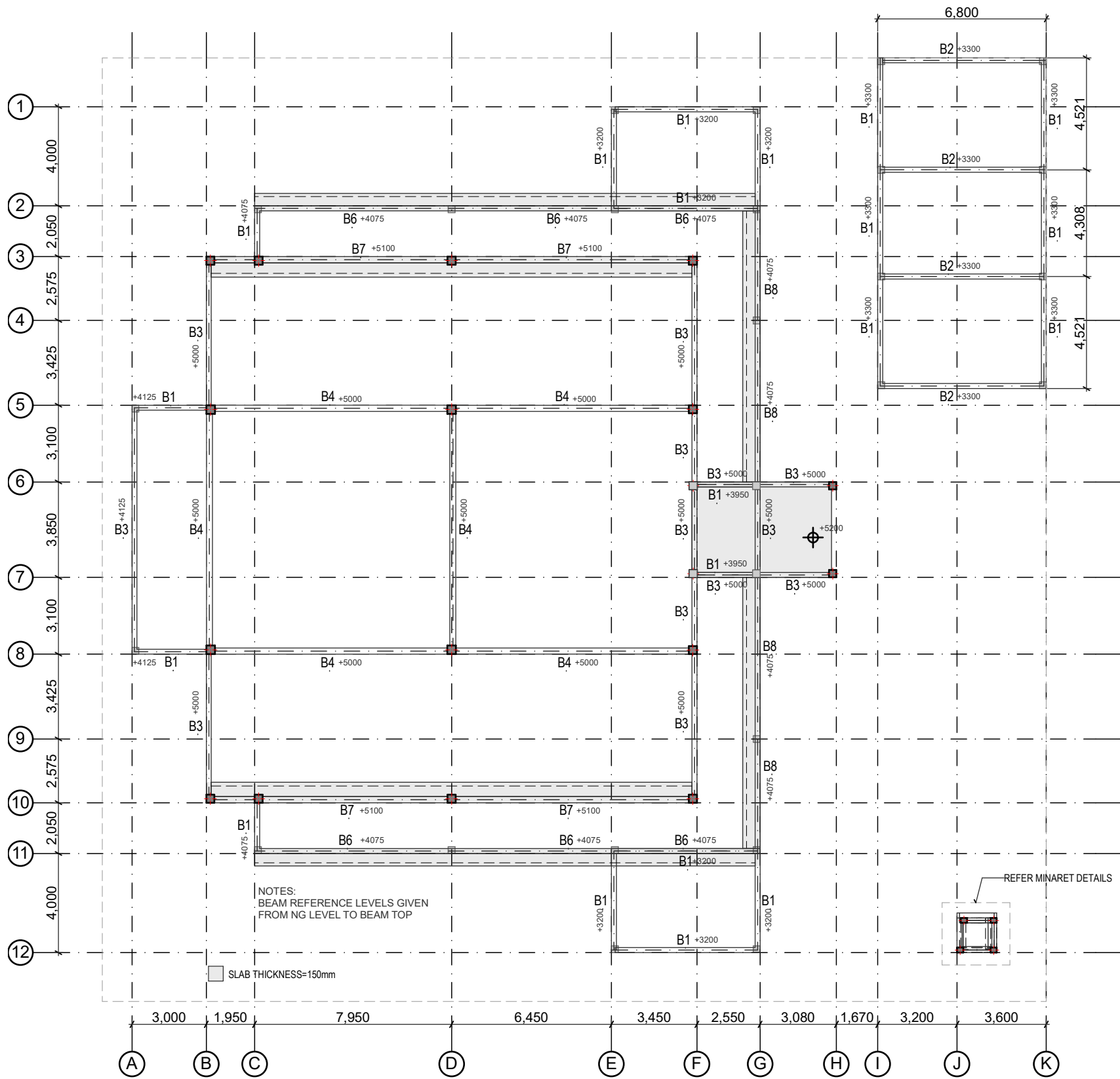
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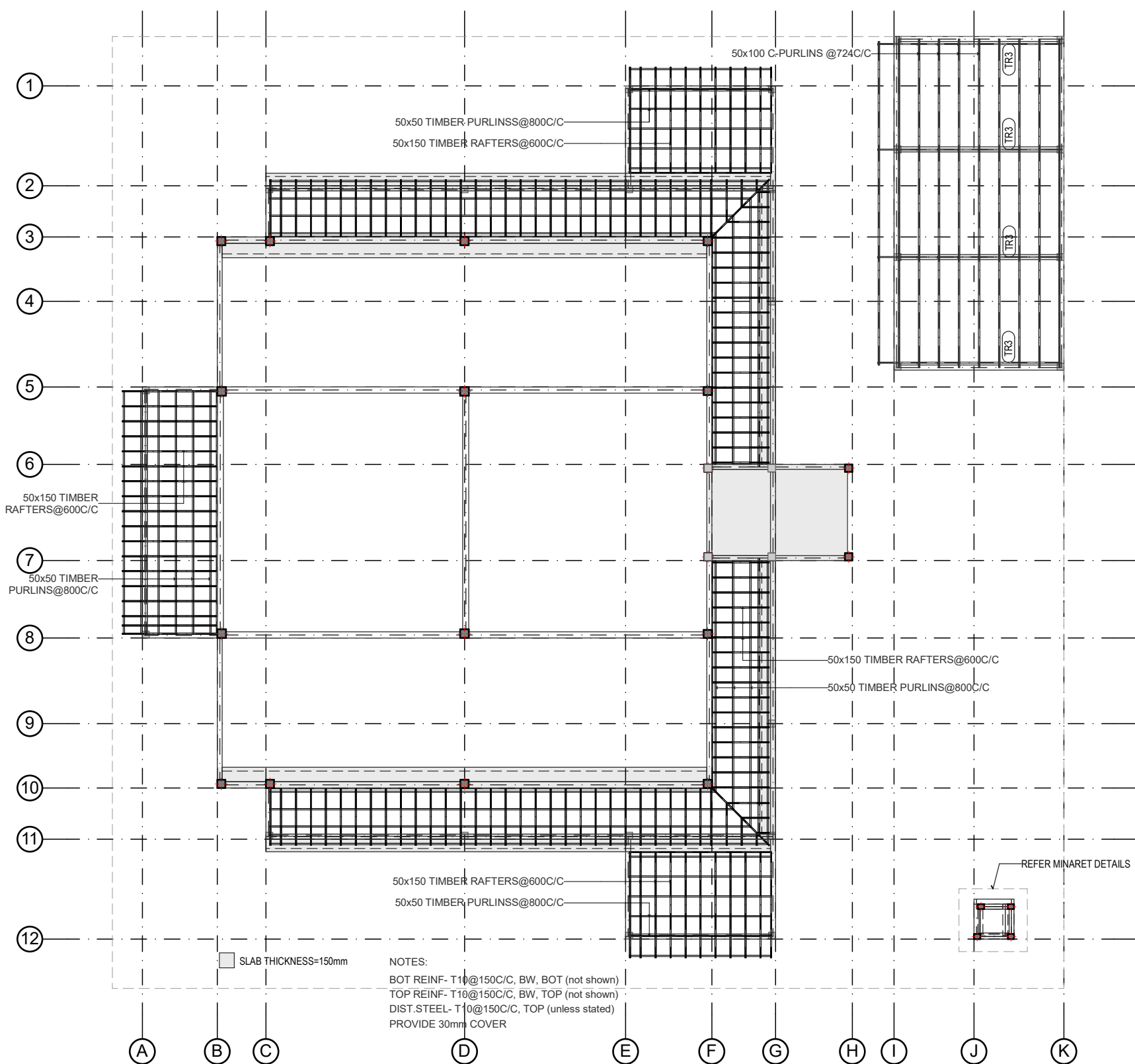
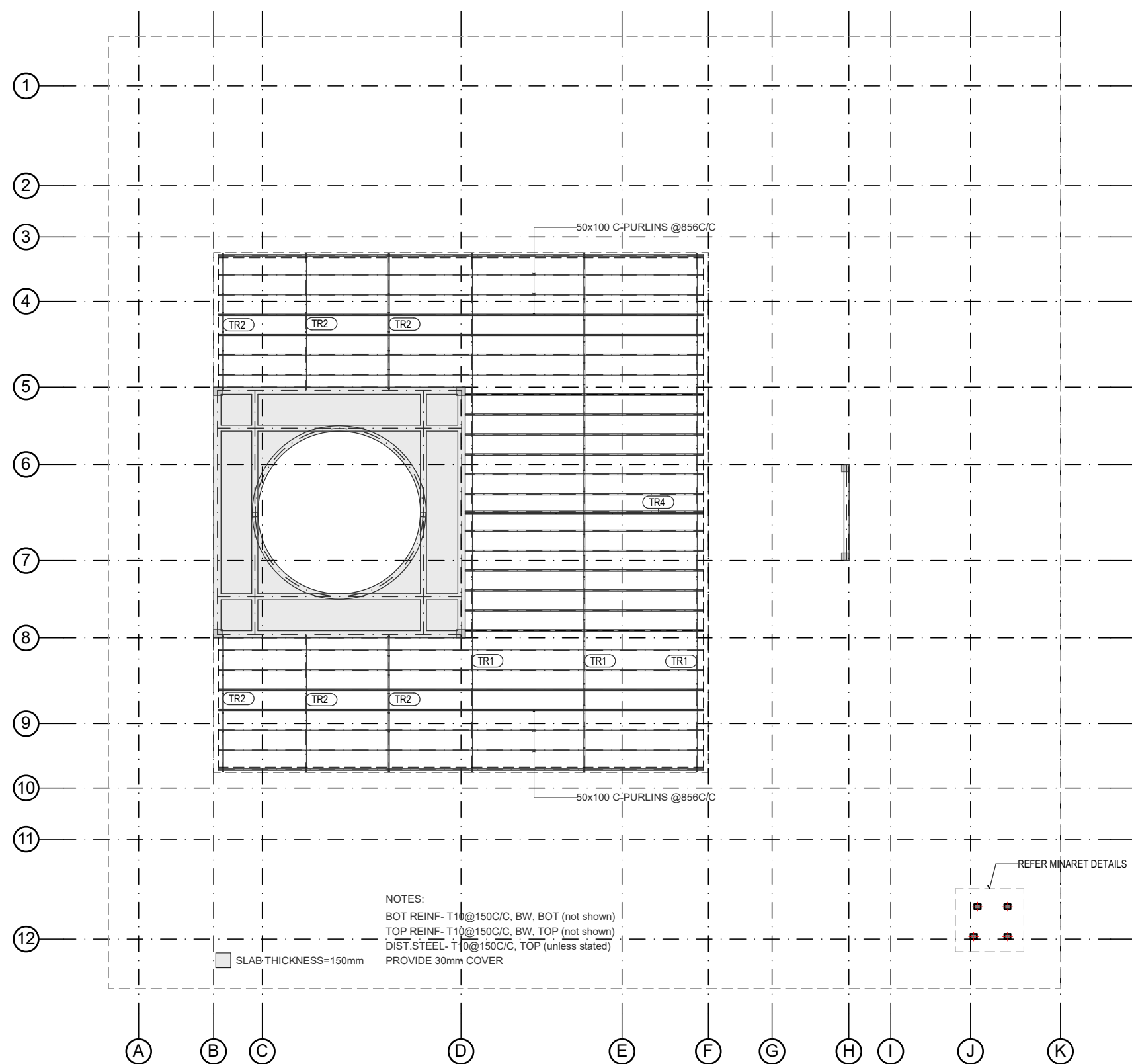
ROOF BEAM PLAN L2
Scale: 1:200




ROOF BEAM PLAN L1
Scale: 1:200

REVISIONS					
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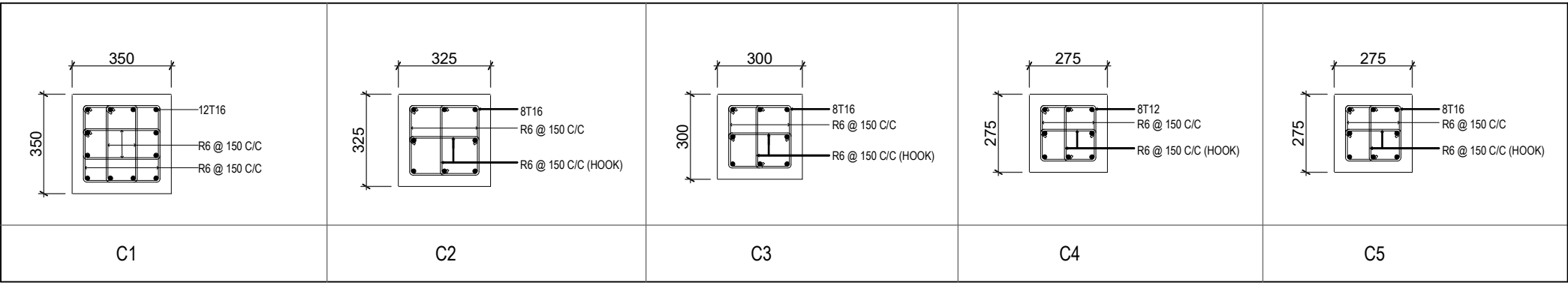
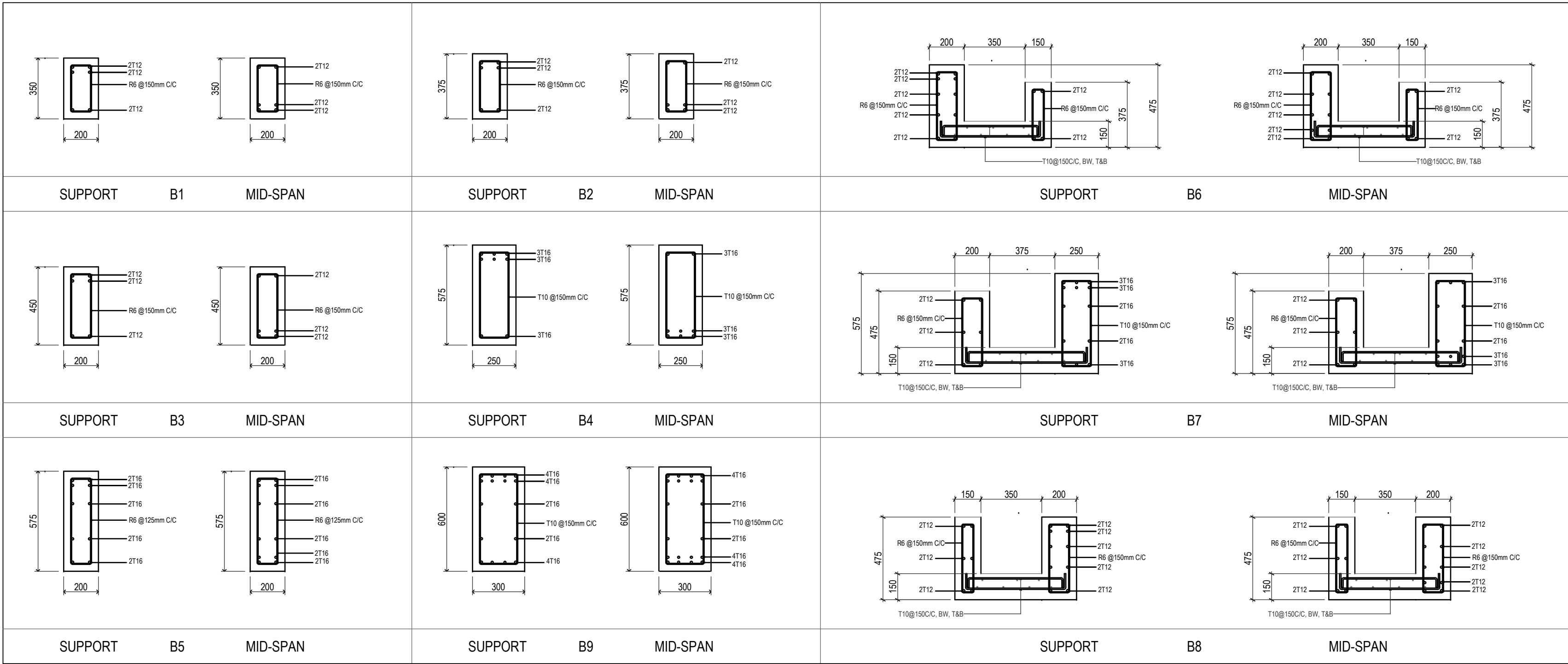
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LEAD CONSULTANT	
INFRASTRUCTURE DESIGN	
LANDSCAPE DESIGN	
REGISTERED LOCAL CONSULTANT	
	
RYAN PRIVATE LIMITED	
CONSULTANT PROJECT NO. R24002MA	
ARCHITECT	Ismail Rasheed
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B. C.D.P. N.K.P. M.E.I
INFRA DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	
PROJECT NAME	
Prototype Mosques	
CLIENT Ministry of Islamic Affairs	
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	
ISSUED FOR	
DD - DETAIL DESIGN	
BUILDING NAME	
Mosque for 700 pax	
BUILDING/STRUCTURE NO	ISSUE DATE
	11/6/2024
DRAWING TITLES	
Roof Beam Plan	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	1:200
SHEET NO.	S.01.5
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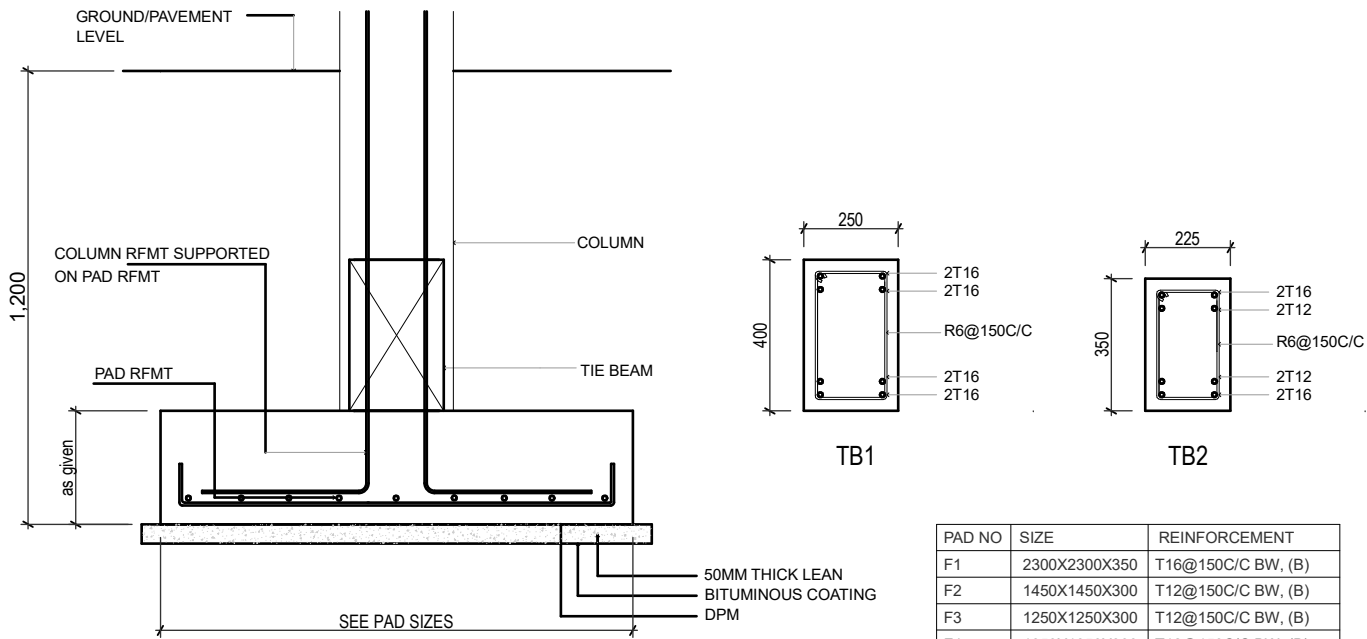
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LEAD CONSULTANT	
INFRASTRUCTURE DESIGN	
LANDSCAPE DESIGN	
REGISTERED LOCAL CONSULTANT	
	
RYIAH PRIVATE LIMITED www.ryiah.com.my	
CONSULTANT PROJECT NO	R24002MA
ARCHITECT	Jamal Rashed
INT. DESIGNER	#/it. Designer
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B. C.D.P. N.K.P. M.E.J
INFRA. DESIGNER	#/rifa. Designer
DRAWN BY	IR
CHECKED BY	Mariyam trasha Shareef
APPROVED BY	

Prototype Mosques		
CLIENT	Ministry of Islamic Affairs	
DEVELOPER		
ATOLL		
ISLAND		
LAGOON (GPS COORDINATES)		latitude N, long. E
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BUILDING NAME		
Mosque for 700 pax		
BUILDING/STRUCTURE NO.	ISSUE DATE	
	11/6/2024	
DRAWING TITLES		
Roof Framing Plan		
TITLE2		
TITLE3		
TITLE4		
SHEET SIZE	A2	SCALE 1:200
SHEET NO.		
S.01.6		

BEAMS DETAILS



COLUMNS DETAILS



FOUNDATION DETAILS

FOUNDATION ,COLUMNS & BEAMS

Scale: 1:20

NOTES:

CONCRETE COVERS
COLUMN 40mm
SLAB 30mm
BEAM 35mm
FOOTING 50mm
TIE BEAM 50mm

CONCRETE MIX = 1:2:3 (C:S:A)
LEAN CONCRETE MIX = 1:2:5

LAP LENGTH FOR BARS
25mm \geq 1125mm
20mm \geq 930mm
16mm \geq 720mm
12mm \geq 550mm
10mm \geq 450mm

CONCRETE GRADE = M25
SAFE BEARING CAPACITY = 150KPa

HOOK LENGTHS AND OTHER DETAILS
ARE PROVIDED IN GENERAL NOTES


FOUNDATION DEPTH = 1200mm BELOW GROUND LEVEL,
ALL FOOTINGS TO BE LAID OVER 50mm THICK LEAN
CONCRETE

GROUND SLAB:
UNLESS STATED OTHERWISE, 100mm THICK RC SLAB ON
FILL, REINFORCED WITH T10@200C/C, BW, SINGLE LAYER.

GENERAL NOTES

REVISIONS				
REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

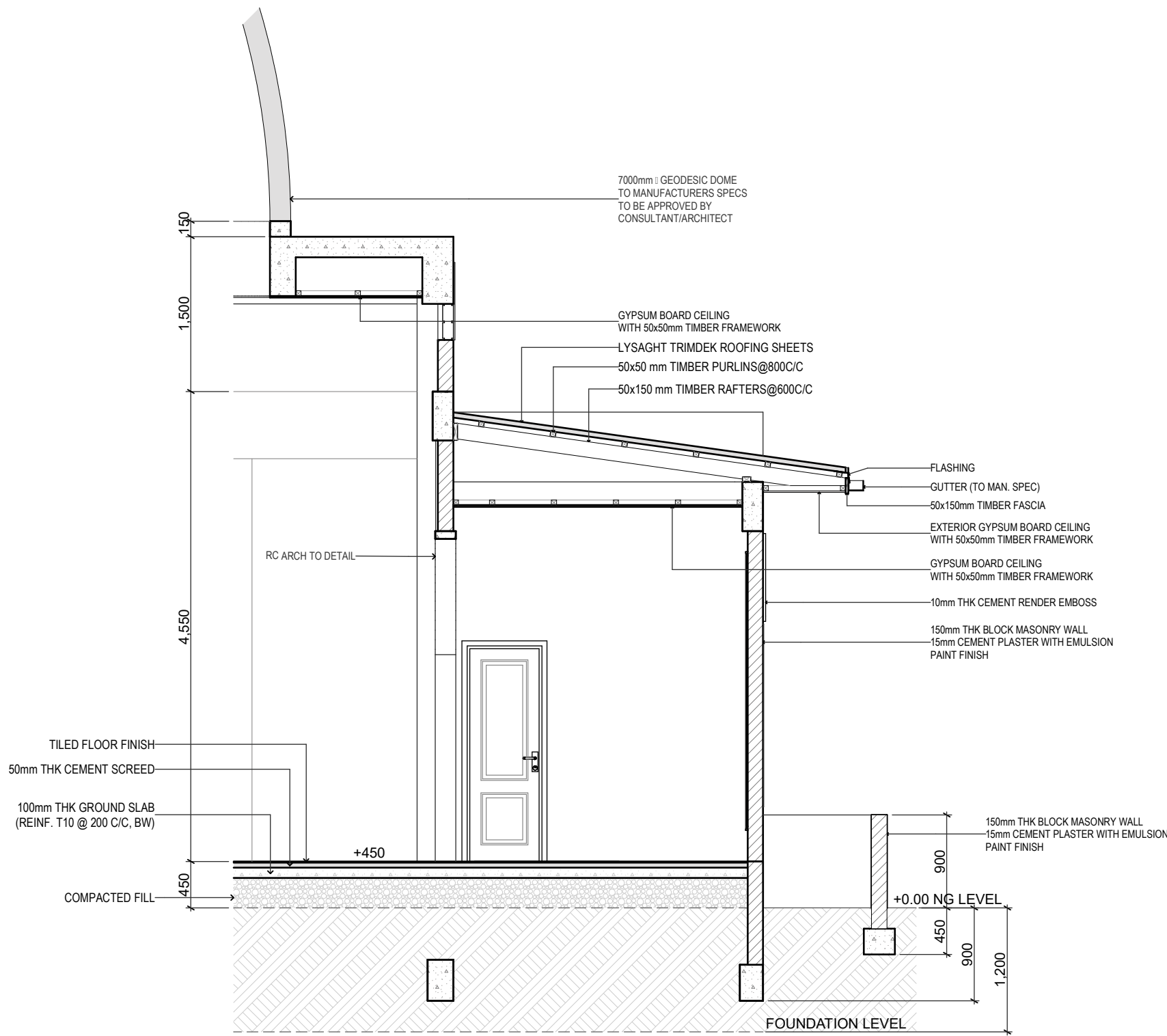
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INFRASTRUCTURE DESIGN	
LANDSCAPE DESIGN	
REGISTERED LOCAL CONSULTANT	

	
RYAN PRIVATE LIMITED	
CONSULTANT PROJECT NO. R24002MA	
ARCHITECT	Isam Rashied
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B. C.D.P. N.K.P. M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

PROJECT NAME	
Prototype Mosques	
CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	latitude N, long. E
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BUILDING NAME	
Mosque for 700 pax	
BUILDING/STRUCTURE NO	ISSUE DATE
	11/6/2024

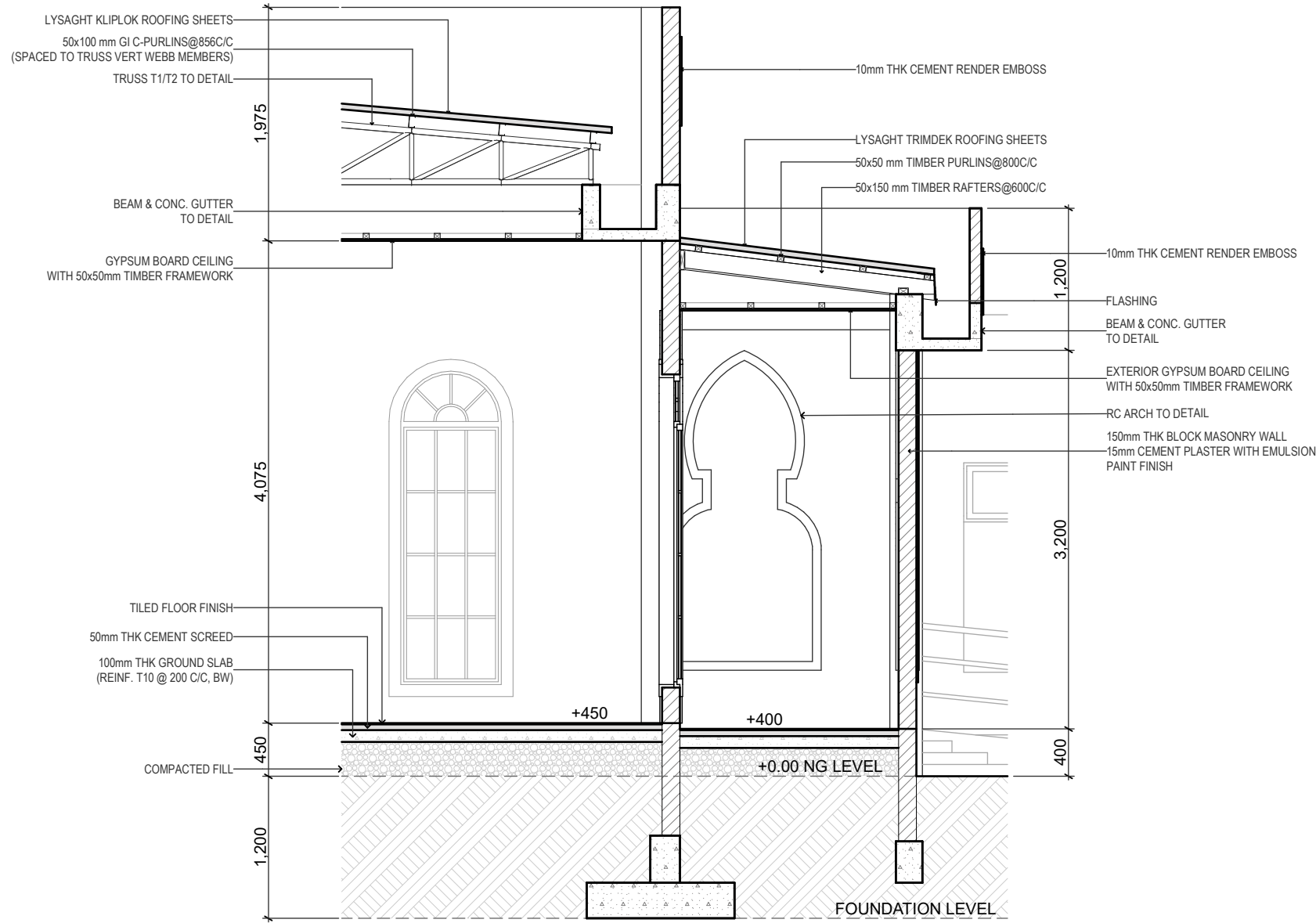
DRAWING TITLES		
Structural Details		
TITLE2		
TITLE3		
TITLE4		
SHEET SIZE	A2	SCALE 1:20
SHEET NO.		
S.03.1		

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PART SECTION DETAIL D-01

Scale: 1:50



PART SECTION DETAIL D-02

Scale: 1:50

GENERAL NOTES

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CONSULTANT PROJECT NO. R24002MA

ARCHITECT Ismail Rasheed

INT. DESIGNER #Int. Designer

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B. C.D.P. N.K.P. M.E.I

INFRA DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Mariyam Inasha Shareef

APPROVED BY

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

ISLAND

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BUILDING NAME

Mosque for 700 pax

BUILDING/STRUCTURE NO. ISSUE DATE
11/6/2024

DRAWING TITLES

Part Section Detail

TITLE2

TITLE3

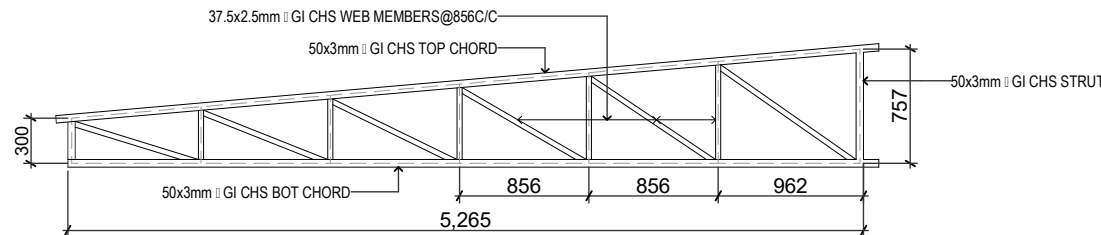
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SHEET SIZE A2 SCALE 1:50

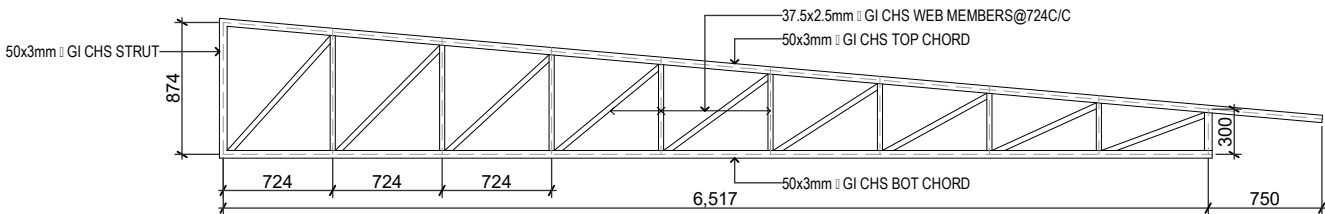
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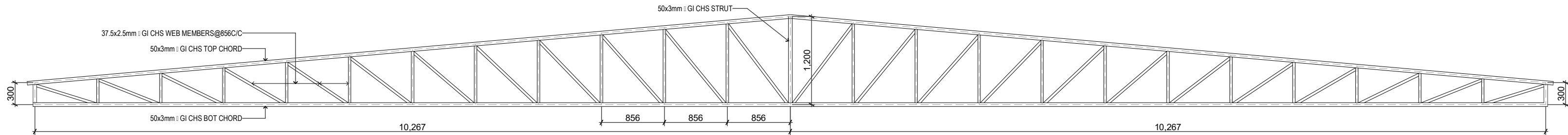
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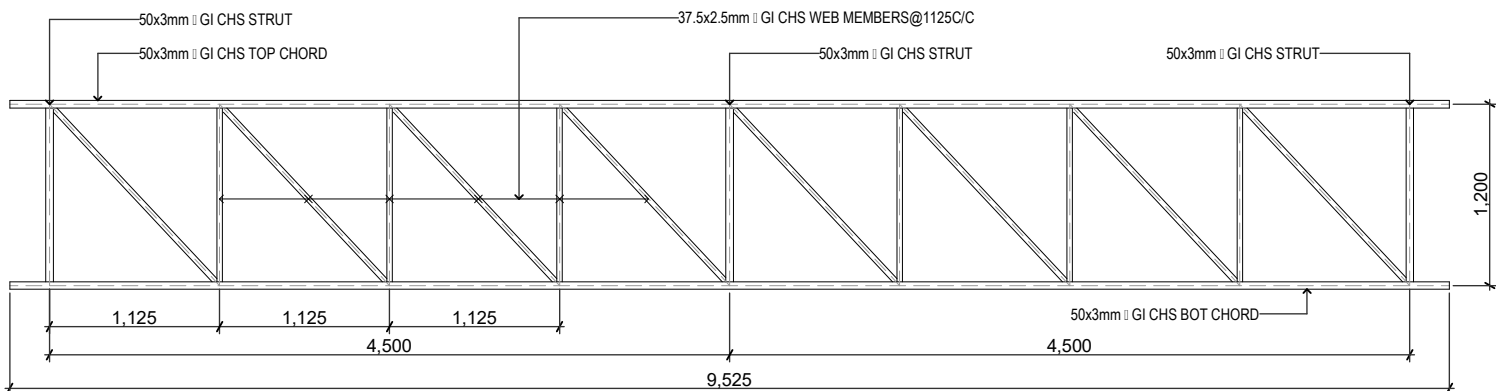
TRUSS T2



TRUSS T3



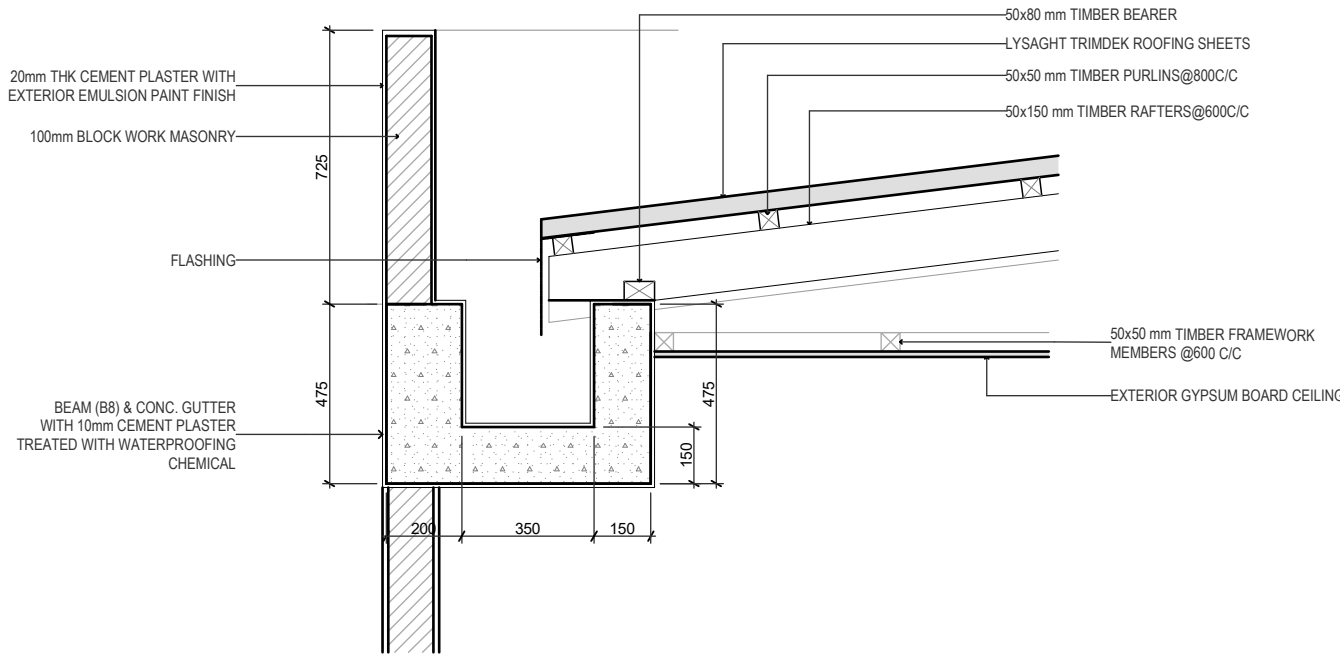
TRUSS T1



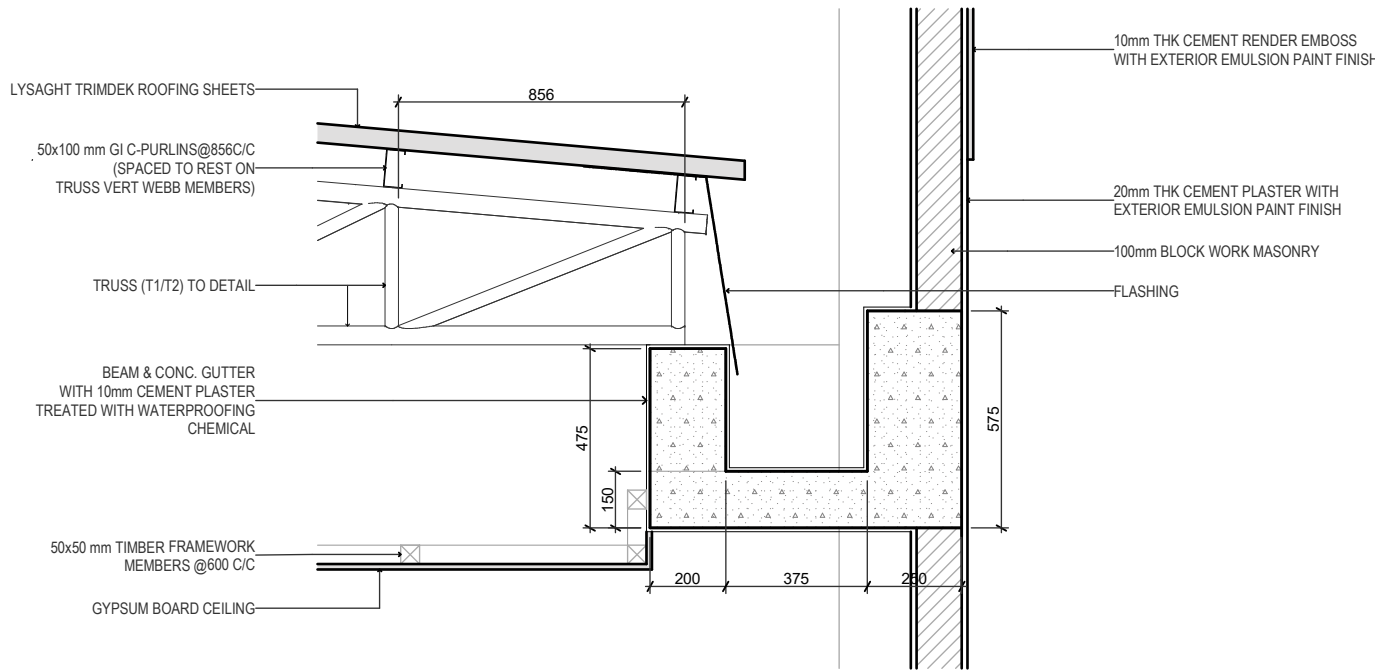
TRUSS T4

TRUSS DETAILS

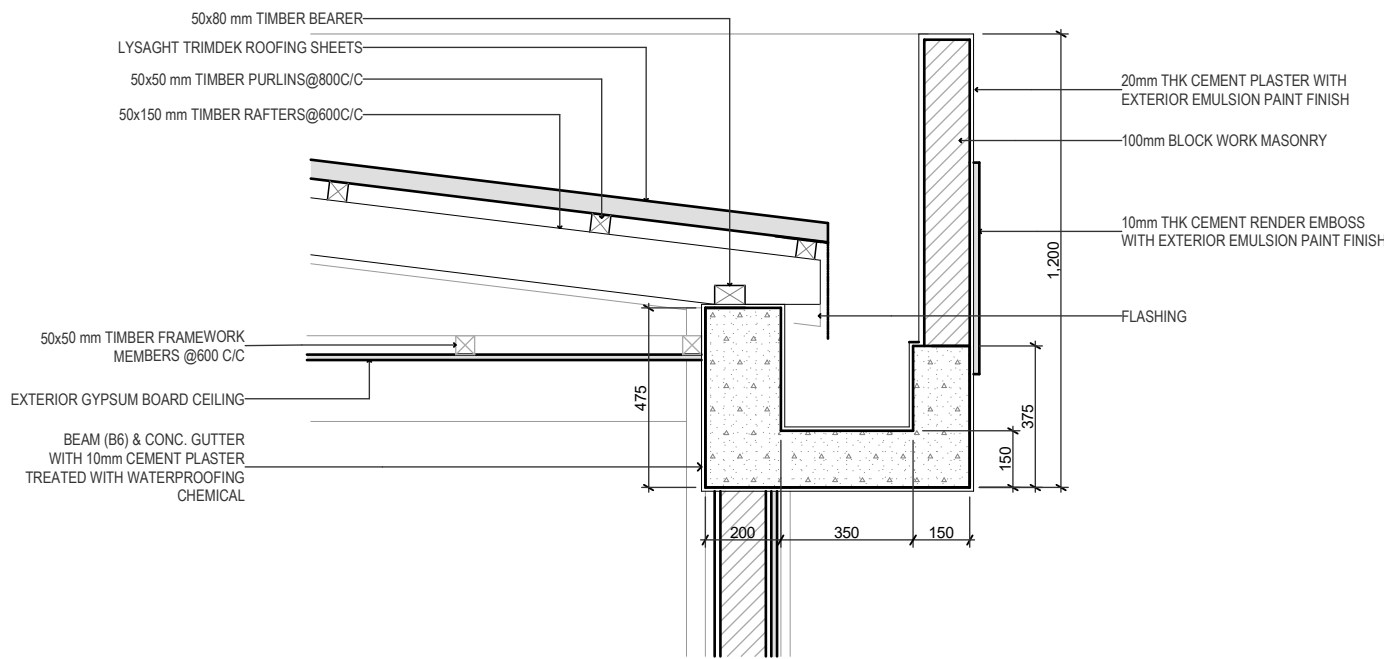
Scale: 1:50



CONC. GUTTER (B8)



CONC. GUTTER (B7)



CONC. GUTTER (B6)

ROOF FRAME TO CONCRETE GUTTER CONNECTION

Scale: 1:20

GENERAL NOTES

REVISIONS

REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY
REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

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INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES) latitude N, long. E

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

Mosque for 700 pax

BUILDING/STRUCTURE NO	ISSUE DATE
	11/6/2024

DRAWING TITLES

Roofing Details

TITLE2

TITLE3

TITLE4

SHEET SIZE	A2	SCALE	1:50, 1:20
SHEET NO.	S.03.3		

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PROTOTYPE MOSQUE - 700

CLIENT: MINISTRY OF ISLAMIC AFFAIRS

SERVICES DRAWINGS



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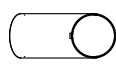
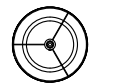

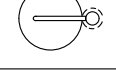

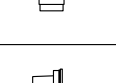
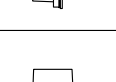
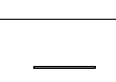
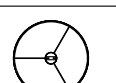
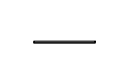
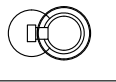
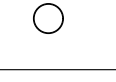



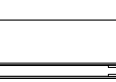
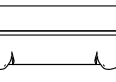
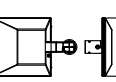
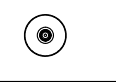
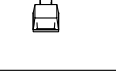
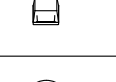
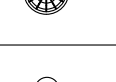






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e: info@riyan.com.mv


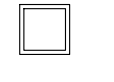



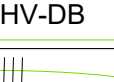

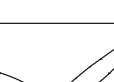
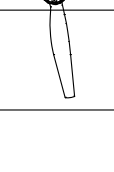

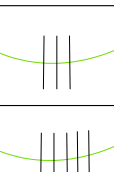
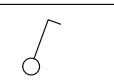


w: www.riyan.com.mv

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


LEGEND (LIGHTING)

SYMBOL	CODE	DESCRIPTION
	LFO1	6W, 230V , 3000K, SPOT LIGHT
	LFO1.1	6W, 230V , 3000K, SPOT LIGHT W/ 2hr Bat Pack
	LFO2	15W, 230V, 3000K FLOOR MOUNTED Dim DECORATIVE LIGHT
	LF03	6W, 230V, 3000K BEDSIDE TABLE LAMP
	LF04	6W, 230V, 3000K TABLE LAMP
	LF05	17W, 230V, 4000K, WALL LIGHT, IP55
	LF06	6W, 230V, 3000K, GARDEN SPIKE LIGHT, IP65
	LF07	7W, 24V, 3000K POOL LIGHT, IP67
	LF07.1	3W, 24V, 3000K POOL STAIR LIGHT, IP67
	LF08	24V, 3000K LED STRIP LIGHT
	LF09	12W, 230V, 3000K, CEILING MOUNTED DECORATIVE LIGHT
	LF10	5W/M, 230V, 3000K, LED STRIP LIGHT
	LF11	6W, 230V, 3000K, BOLLARD LIGHT
	LF12	6W, 230V, 3000K, FLOOR MOUNTED DECORATIVE LIGHT
	LF13	9W, 230V, 3000K, SURFACE MOUNTED DOWNLIGHT TYPE-1
	LF13.1	9W, 230V, 3000K, SURFACE MOUNTED DOWNLIGHT TYPE-1 W/ 2HRS BAT. PACK
	LF14	28W, 230V, 4000K, SURFACE MOUNTED DOWNLIGHT TYPE-2
	LF15	15W, 230V, 3000K, PENDANT LIGHT, CEILING SURFACE MOUNTED
	LF16	28W, 230V, 4000K, SURFACE MOUNTED LINEAR LIGHT
	EM	12W, 230V, 4000K, WALL MOUNTED MOUSE TYPE EMERGENCY LIGHT, W/ 2 HR BAT. PACK
	LF17	150W, 230V, 4000K, HID FLOOD LIGHT, IP65
	LF18	50W, 230V, 4000K, HID DOWNLIGHT
	LF19	100W, 230V, 4000K, FLOOD LIGHT
	LF19a	50W, 230V, 4000K, FLOOD LIGHT
	LF20	17W, 230V, 3000K, RECESSED DOWNLIGHT
	LF21	20W, 230V, 3000K, SUSPENDED DOWNLIGHT
	LF22	100W, 230V, 4000K, PENDANT LIGHT-1
	LF23	100W, 230V, 4000K, PENDANT LIGHT-2
	LF24	6W, 230V, 3000K, DECK LIGHT IP65
	LF24.a	9W, 230V, 3000K, TERRACE WALL LIGHT IP65



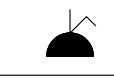


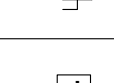
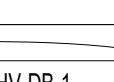
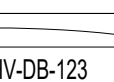

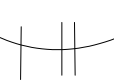
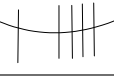


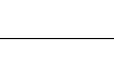

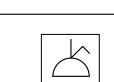


LEGEND (LIGHTING)

SYMBOL	CODE	DESCRIPTION
		9W, 230V, 3000K, WALL LIGHT, IP55
	LF25	18W, 230V, 3000K, CEILING MOUNTED RECESSED LIGHT
	LF26	70W, 230V, 3000K, POLE MOUNTED OUTDOOR LIGHT
	LF27	500W, 230V, 3000K, CHANDELIER
	LF11a	6W, 230V, 3000K, BOLLARD LIGHT TYPE A
		CIRCUIT HOMERUN, SINGLE PHASE, 3 WIRE
	LF11.a	CIRCUIT HOMERUN, THREE PHASE, 5 WIRE 6W, 230V, 3000K, BOLLARD LIGHT -TYPE A
	DB	DISTRIBUTION BOARD
		CEILING MOUNTED FAN
	FS	FAN SWITCH LABEL
	2wA	TWO WAY SWITCH LABEL
	CDim	DIMMABLE LIGHTING SWITCH LABEL
	T/S	TIMER SWITCH LABEL
		SINGLE PHASE, 3 WIRE
		THREE PHASE, 5 WIRE
	A OR 1G	1 GANG 1 WAY SWITCH
	AB OR 2G	2 GANG 1 WAY SWITCH
	ABC OR 3G	3 GANG 1 WAY SWITCH

LEGEND (PA)

SYMBOL	CODE	DESCRIPTION
	MS	MINARET SPEAKER
	PS	PUBLIC SPEAKER
	PM	PAGING MIC
	AMP	AMPLIFIER

LEGEND (POWER)

SYMBOL	CODE	DESCRIPTION
	SSO	13A, SWITCH TYPE, SINGLE POWER OUTLET
	TSO	13A, SWITCH TYPE, DOUBLE POWER OUTLET
	AC	15A, SWITCH TYPE, SINGLE POWER OUTLET
	USB	2 NO. USB CHARGER PORT
	3P,ISO	3 PHASE ISOLATOR
	1P,ISO	1 PHASE ISOLATOR
	J	JUNCTION BOX
		CIRCUIT HOMERUN, SINGLE PHASE, 3 WIRE
		CIRCUIT HOMERUN, THREE PHASE, 5 WIRE
		DISTRIBUTION BOARD
		SINGLE PHASE, 3 WIRE
		THREE PHASE, 5 WIRE
	GPP	GENERAL POWER POINT
	SHAVER	SHAVER SOCKET
	AC	AC SOCKET
	H/L	HIGH LEVEL
	FFL	FLOOR FINISH LINE
	WP	WEATHER PROOF

GENERAL NOTES :

- ALL LIGHTS & POWER POINTS SHALL BE CONNECTED TO THEIR RESPECTIVE CIRCUIT HOME RUN AS PER THE LIGHTING & POWER LAYOUT.
- CONTRACTOR TO PREPARE SHOP DRAWINGS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR ALL LIGHTS, SWITCHES, DB, PANEL BOARD, EAC, REQUIRED ISOLATORS, ACV SERVICES AND OTHER RELEVANT LIGHTING AND POWER POINT LOCATIONS INCLUDING CONDUIT AND WIRING AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY, CHANGE, REROUTE, RELOCATE THE LIGHTING AND POWER POINTS AS PER THE SITE CONDITIONS AND SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ELECTRICAL POWER REQUIREMENTS AND POWER POINTS FOR MECHANICAL VENTILATION DEVICES TO ELECTRICAL CONTRACTOR.
- OT, RADIOLOGY, ECG/EEG AND SCAN ROOMS' POWER CONSUMPTION IS IN GENERAL. CONTRACTOR SHALL BE RESPONSIBLE MANUFACTURERS REGARDING EQUIPMENT POWER CONSUMPTION. TO COORDINATE WITH RELEVANT EQUIPMENT
- ALL ELECTRICAL COMPONENT CONNECTED TO THEIR RESPECTIVE DB.
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED OUTDOOR.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ACMV CONTRACTOR FOR POWER REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL OTHER SERVICES.
- CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY CHANGE, REROUTE RELOCATE AS PER SITE CONDITION AND SUBMIT SHOP DRAWINGS FOR APPROVAL.
- CONTRACTOR TO PROVIDE DETAIL SHOP DRAWINGS PRIOR TO INITIATE WORKS ON SITE.

GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING

- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.

- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.

- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.

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LEAD CONSULTANT

RIYAN PVT LTD

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REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

www.riyon.com.mv

CONSULTANT PROJECT NO.

R24002MIA

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APPROVED BY	

PROJECT NAME

PROTOTYPE MOSQUES

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.

ISSUE DATE

29 MAY 2024

DRAWING TITLES

ELECTRICAL NOTES AND LEGENDS

SHEET SIZE

A1

SCALE

NTS

SHEET NO.

ELE - 01

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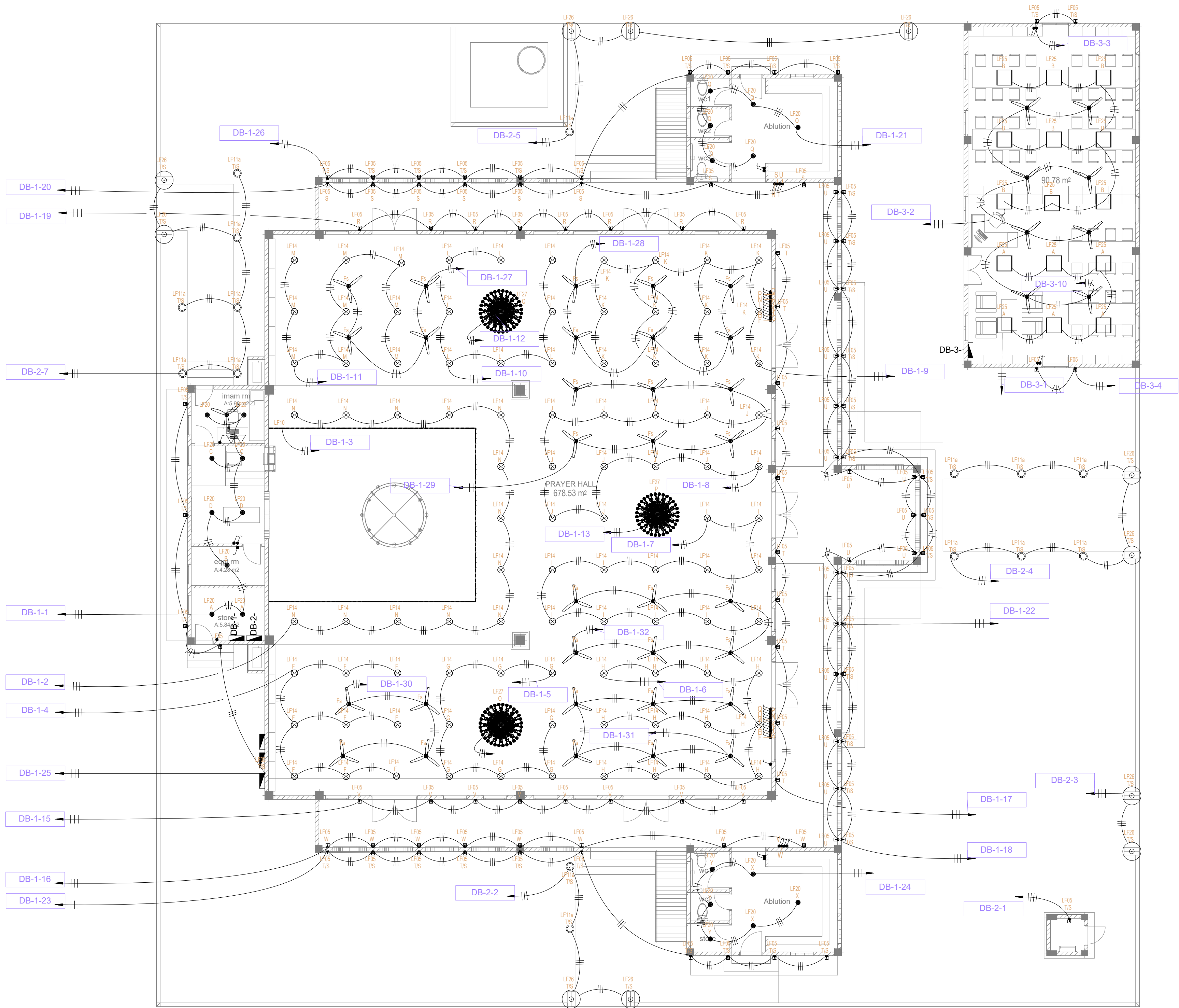
BUILDING/STRUCTURE NO. ISSUE DATE
29 MAY 2024

DRAWING TITLES
GROUND FLOOR
LIGHTING LAYOUT

SHEET SIZE A1 SCALE 1:100

SHEET NO.
ELE - 02

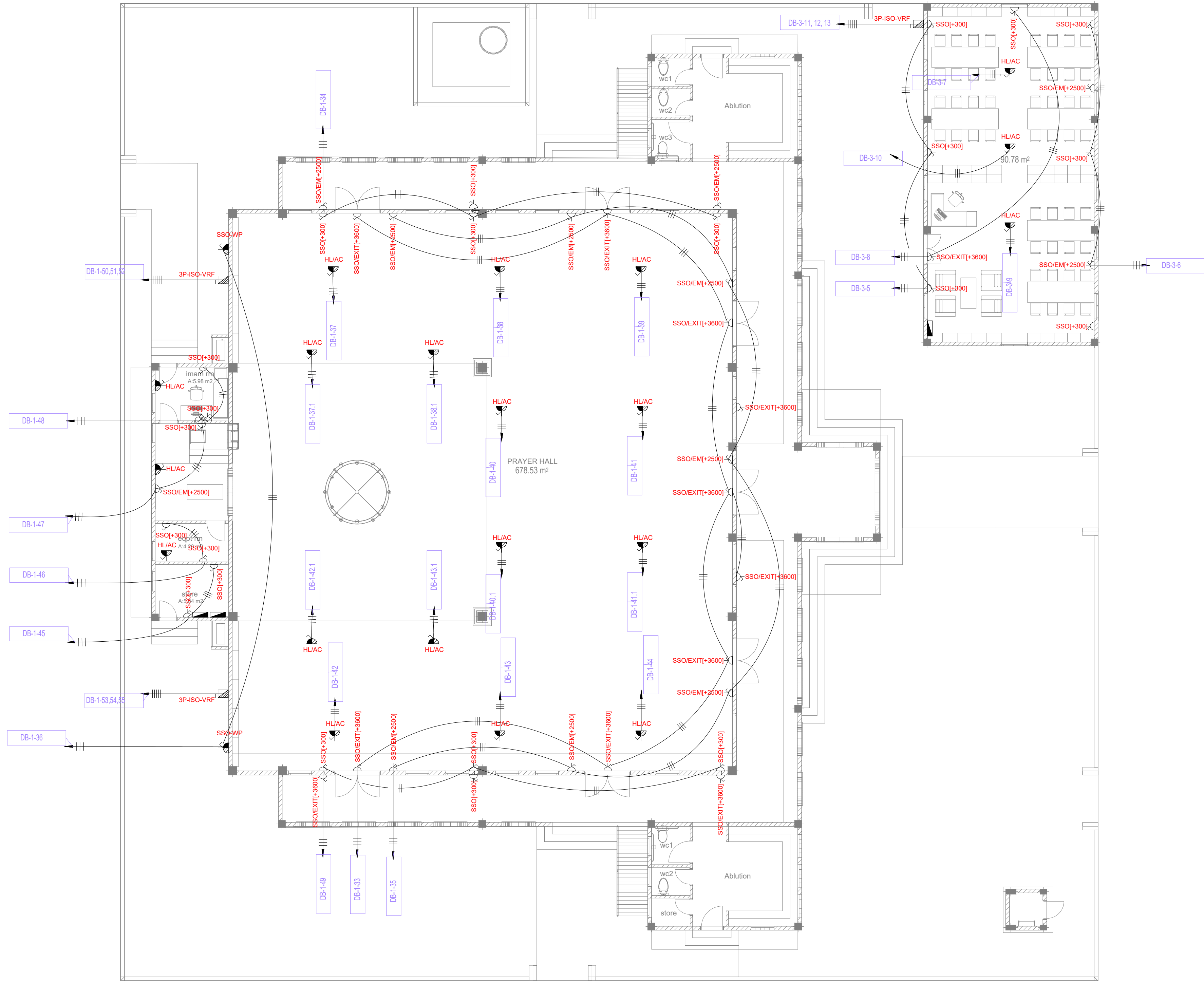
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GROUND FLOOR_LIGHTING LAYOUT

SCALE 1:100






GROUND FLOOR_POWER LAYOUT

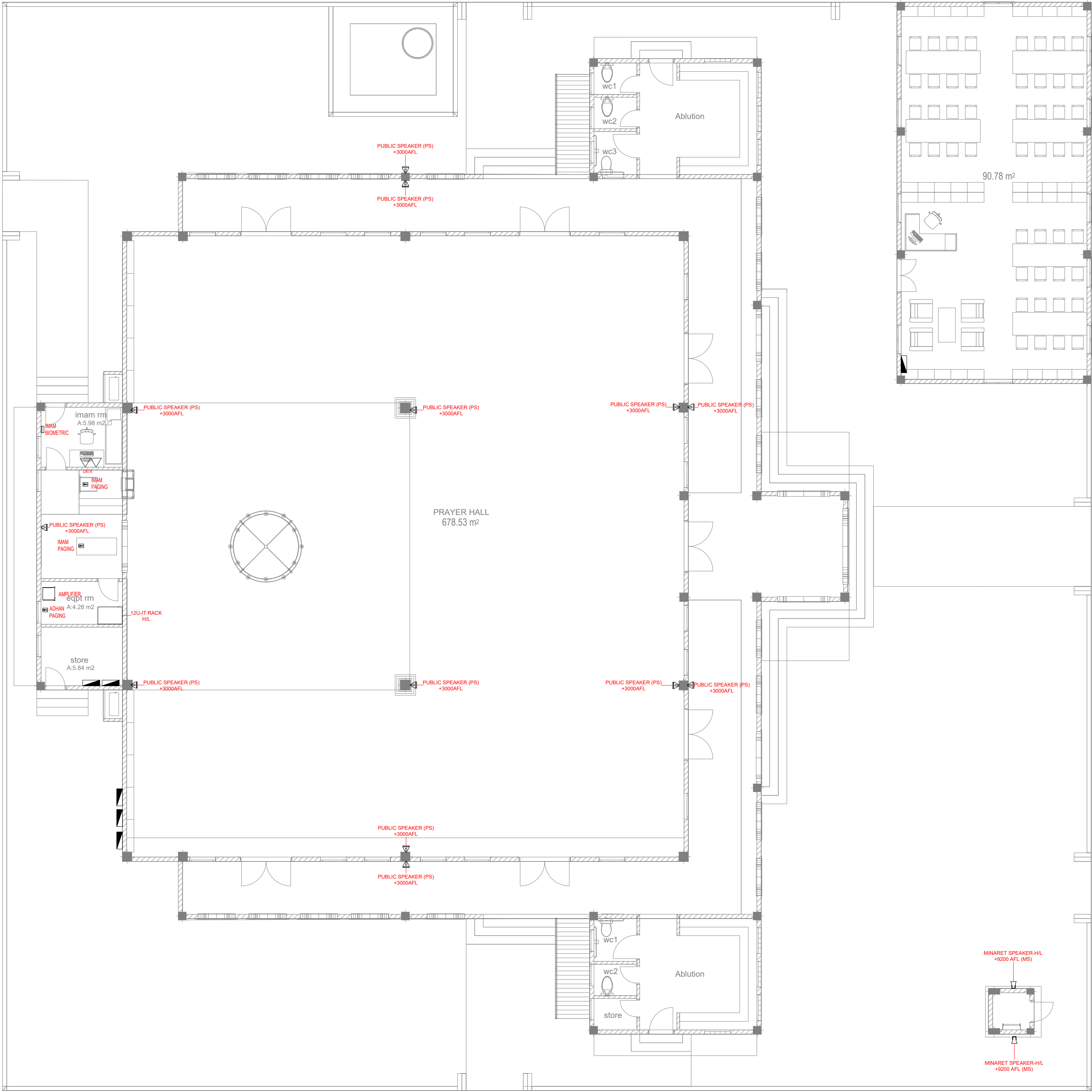
SCALE 1:100



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APPROVED BY				
PROJECT NAME				
PROTOTYPE MOSQUES				
CLIENT	MINISTRY OF ISLAMIC AFFAIRS			
DEVELOPER				
ATOLL				
ISLAND				
LAGOON (GPS COORDINATES)				
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BUILDING NAME				
MOSQUE FOR 700 PAX				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		29 MAY 2024		
DRAWING TITLES				
GROUND FLOOR				
POWER LAYOUT				
SHEET SIZE A1 SCALE 1:100				
SHEET NO.				
ELE - 03				
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GROUND FLOOR_PA & ICT LAYOUT

SCALE 1:100



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DEVELOPER

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ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
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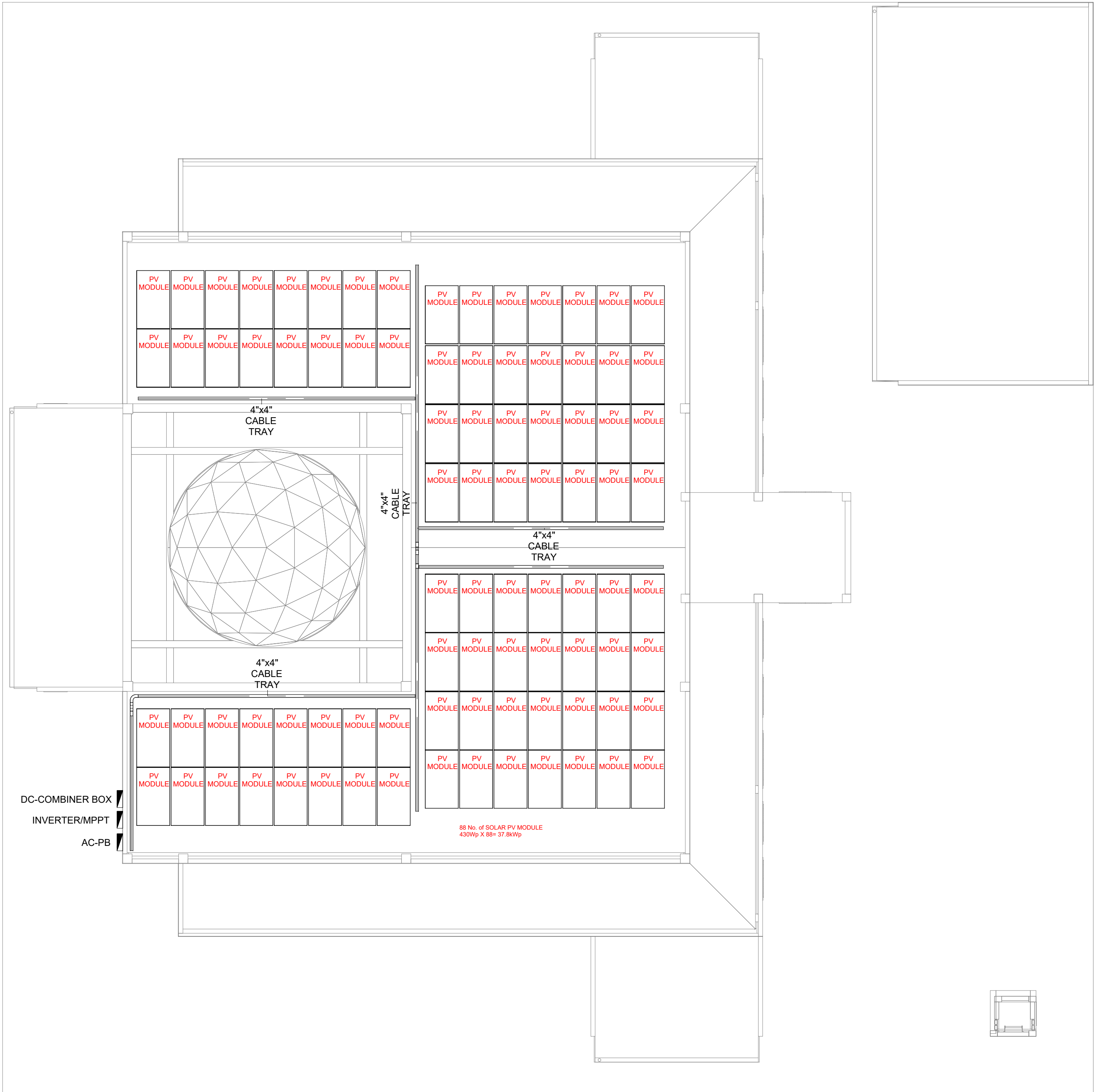
DRAWING TITLES
GROUND FLOOR
PUBLIC ANNOUNCEMENT AND
ICT LAYOUT

SHEET SIZE A1 SCALE 1:100

SHEET NO.

ELE - 04

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ROOF_SOLAR PV LAYOUT
SCALE 1:100



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PROJECT NAME

PROTOTYPE MOSQUES

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

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ISLAND

LAGOON (GPS COORDINATES)

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BUILDING NAME

MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES

ROOF

SOLAR PV LAYOUT

SHEET SIZE	A1	SCALE	1:100
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SHEET NO.

ELE - 05

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FEEDER NAME/No:		DB-1- (MOSQUE 700 Pax)		MAIN BREAKER :		125AT, 4P, CURVE C MCCB		LOCATION:		EE ROOM												
SYSTEM VOLTAGE:		400V/230V, 3Ø, 4W+G		MAIN BUS :		150A, 3P, Cu, TINNED BUSBAR		ENCLOSURE :		POLYCARBONATE, IP55												
MAIN. KAIC:		10kA		EARTH FAULT RATING:		125/5, ELR/OCR		MOUNTING :		Wall Mounted												
FED FROM (SOURCE):		DB-2		MAIN FEEDER SIZE:		1x4C-35mm²Cu/ XLPE/SWA/PVC + 25mm² PE		CABLE LAYOUT :		RUN CONCEALED												
TYPE:		3 PHASE																				
CKT NO	Description	QTY	W/Pts	Connected Load	LF	DF	P.F	Total Apparent Power(WA) (DL)	Total Active Power(W) (DL)	VOLTAGE	AMPERE LOAD (A)				MCB/MCCB (PROTECTION)				Curve	ELCB/R CCB	WIRING CONDUCTOR	CONDUIT/RACEWAY
											R(L1)	Y(L2)	B(L3)	3PHASE	AT	AF	P	KA				RUN CONCEALED
DB-1-1	LF20-LIGHTING FIXTURE ; CEILING FAN	9	50	450.00	1.00	0.80	0.90	400.00	360.00	230	1.74				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-2	LF14-LIGHTING FIXTURE	13	50	650.00	1.00	0.80	0.90	577.78	520.00	230		2.51			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-3	LF10-LIGHTING FIXTURE	1	50	50.00	1.00	0.80	0.90	44.44	40.00	230			0.19		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-4	LF14-LIGHTING FIXTURE	9	50	450.00	1.00	0.80	0.90	400.00	360.00	230	1.74				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-5	LF14-LIGHTING FIXTURE	8	50	400.00	1.00	0.80	0.90	355.56	320.00	230		1.55			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-6	LF14-LIGHTING FIXTURE	12	50	600.00	1.00	0.80	0.90	533.33	480.00	230			2.32		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-7	LF14-LIGHTING FIXTURE	12	50	600.00	1.00	0.80	0.90	533.33	480.00	230	2.32				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-8	LF14-LIGHTING FIXTURE	12	50	600.00	1.00	0.80	0.90	533.33	480.00	230		2.32			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-9	LF14-LIGHTING FIXTURE	12	50	600.00	1.00	0.80	0.90	533.33	480.00	230			2.32		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-10	LF14-LIGHTING FIXTURE	8	50	400.00	1.00	0.80	0.90	355.56	320.00	230	1.55				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-11	LF14-LIGHTING FIXTURE	9	50	450.00	1.00	0.80	0.90	400.00	360.00	230		1.74			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-12	LF27-LIGHTING FIXTURE	1	100	100.00	1.00	0.80	0.90	88.89	80.00	230			0.39		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-13	LF27-LIGHTING FIXTURE	1	100	100.00	1.00	0.80	0.90	88.89	80.00	230	0.39				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-14	LF27-LIGHTING FIXTURE	1	100	100.00	1.00	0.80	0.90	88.89	80.00	230		0.39			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-15	LF05-LIGHTING FIXTURE	8	50	400.00	1.00	0.80	0.90	355.56	320.00	230			1.55		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-16	LF05-LIGHTING FIXTURE	8	50	400.00	1.00	0.80	0.90	355.56	320.00	230	1.55				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-17	LF05-LIGHTING FIXTURE	10	50	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-18	LF05-LIGHTING FIXTURE	17	50	850.00	1.00	0.80	0.90	755.56	680.00	230			3.29		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-19	LF05-LIGHTING FIXTURE	8	50	400.00	1.00	0.80	0.90	355.56	320.00	230	1.55				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-20	LF05-LIGHTING FIXTURE	8	50	400.00	1.00	0.80	0.90	355.56	320.00	230		1.55			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-21	LF20-LIGHTING FIXTURE	6	50	300.00	1.00	0.80	0.90	266.67	240.00	230			1.16		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-22	LF20-LIGHTING FIXTURE (T/S)	15	50	750.00	1.00	0.80	0.90	666.67	600.00	230	2.90				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-23	LF05-LIGHTING FIXTURE(T/S)	10	50	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-24	LF20-LIGHTING FIXTURE	6	50	300.00	1.00	0.80	0.90	266.67	240.00	230			1.16		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-25	LF05-LIGHTING FIXTURE(T/S)	5	50	250.00	1.00	0.80	0.90	222.22	200.00	230	0.97				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-26	LF05-LIGHTING FIXTURE(T/S)	10	50	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-27	CEILING FAN	4	100	400.00	1.00	0.80	0.90	355.56	320.00	230			1.55		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-28	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230	2.32				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-29	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230		2.32			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-30	CEILING FAN	4	100	400.00	1.00	0.80	0.90	355.56	320.00	230			1.55		10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-31	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230	2.32				10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-32	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230		2.32			10	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-	SPARE	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		10	100	1	6	C			
	TOTAL CONNECTED LIGHTING LOAD										19.32	20.48	17.39		32	100	3	10	C	4x1C-6mm² PVC/PVC + 6mm² PVC PE	CONDUIT/RACEWAY	
DB-1-33	13A SINGLE POWER SOCKET SWITCH TYPE	8	90	720.00	1.00	0.80	0.90	640.00	576.00	230	2.78				16	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-34	13A SINGLE POWER SOCKET SWITCH TYPE	6	90	540.00	1.00	0.80	0.90	480.00	432.00	230			2.09		16	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-35	13A SINGLE POWER SOCKET SWITCH TYPE	7	90	630.00	1.00	0.80	0.90	560.00	504.00	230			2.43		16	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-36	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	2	500	1,000.00	1.00	0.80	0.90	888.89	800.00	230	3.86				20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-37	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-38	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-39	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-40	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-41	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-42	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-43	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-44	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-45	13A SINGLE POWER SOCKET SWITCH TYPE	2	90	180.00	1.00	0.80	0.90	160.00	144.00	230	0.70				16	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-46	13A SINGLE POWER SOCKET SWITCH TYPE	2	90	180.00	1.00	0.80	0.90	160.00	144.00	230			0.70		16	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-47	13A SINGLE POWER SOCKET SWITCH TYPE	2	90	180.00	1.00	0.80	0.90	160.00	144.00	230			0.70		16	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-48	13A SINGLE POWER SOCKET SWITCH TYPE																					

LOAD CALCULATION										DB-3- (MOSQUE 700 Pax) FEEDER NAME/No: SYSTEM VOLTAGE: MAIN. KAIC: FED FROM [SOURCE]: 3 PHASE										MAIN BREAKER : MAIN BUS : EARTH FAULT RATING: MAIN FEEDER SIZE:										32AT, 3P, CURVE C MCCB 63A,3P, Cu. Com. BUSBAR 40A,30mA, RCCD 1x4C-10mm²Cu/ XLPE/SWA/PVC + 10mm² PE										LOCATION: ENCLOSURE : MOUNTING : CABLE LAYOUT :										EE ROOM POLYCARBONATE, IP55 Wall Mounted RUN CONCEALED									
LOAD CALCULATION																																																											
CKT NO	Description	QTY	W/Pts	Connected Load	LF	DF	P.F	Total Apparent Power(VA) (DL)	Total Active Power(W) (DL)	VOLTAGE	AMPERE LOAD (A)				MCB/MCCB (PROTECTION)				Curve	ELCB/RCCB	WIRING CONDUCTOR	CONDUIT/RACEWAY																																					
											R(L1)	Y(L2)	B(L3)	3PHASE	AT	AF	P	kA				RUN CONCEALED																																					
DB-3-1	LF25-LIGHTING FIXTURE	6	50	300.00	1.00	0.70	0.90	233.33	210.00	230	1.01	Y(L2)			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-2	LF25-LIGHTING FIXTURE	9	50	450.00	1.00	0.70	0.90	350.00	315.00	230		1.52			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-3	LF05-LIGHTING FIXTURE	2	50	100.00	1.00	0.70	0.90	77.78	70.00	230			0.34		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-4	LF05-LIGHTING FIXTURE	2	50	100.00	1.00	0.70	0.90	77.78	70.00	230	0.34				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-5	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.70	0.90	210.00	189.00	230		0.91			16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-6	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.70	0.90	210.00	189.00	230			0.91		16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-7	15A SINGLE POWER SOCKET SWITCH TYPE	1	1200	1,200.00	1.00	0.70	0.90	933.33	840.00	230	4.06				16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-8	13A SINGLE POWER SOCKET SWITCH TYPE	2	50	100.00	1.00	0.70	0.90	77.78	70.00	230		0.34			16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-9	15A SINGLE POWER SOCKET SWITCH TYPE	1	1200	1,200.00	1.00	0.70	0.90	933.33	840.00	230			4.06		16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-10	CEILING FAN	8	100	800.00	1.00	0.70	0.90	622.22	560.00	230	2.71				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² P.V.C PE	CONDUIT/RACEWAY																																					
DB-3-	SPARE	1	180	180.00	1.00	0.70	0.90	140.00	126.00	230		0.61			16	100	1	6	C																																								
DB-3-	SPARE	1	180	180.00	1.00	0.70	0.90	140.00	126.00	230	0.61				16	100	1	6	C																																								
	TOTAL POWER CONNECTED LOAD							5,555.45		400	8.72	2.77	5.92	-	40	100	3	10	C		4x1C-10mm² PVC/PVC + 10mm² P.V.C PE	CONDUIT/RACEWAY																																					
	MAIN CONNECTED LOAD(3-phase)							0.9	6,044.43	5,439.99		8.72	2.77	5.92	8.72								-																																				
Load Calculation										List of Equipment																																																	
Description		Unit	A	8.72	Description		Unit	Qty																																																			
Total 3 Phase Load (DL)		No	A	8.72	32AT, 3P, CURVE C MCCB		No	1																																																			
Total Active Power (DL)		KW	A	5.44	MCB 32AT, 10KA-3P		No	1																																																			
Safety Factor		%	A	25%	MCB 20AT, 6KA-1P		No	1																																																			
Total 3 Phase Load with Safety Factor		A	A	10.91	MCB 16AT, 6KA-1P		No	7																																																			
32AT, 3P, CURVE C MCCB		%	A	34%	MCB 10AT, 6KA-1P		No	5																																																			
Number of Feeders		No	A	10																																																							
Main Breaker Rating		A	A	32																																																							
Busbar Dimensions(mm)		A	A	11x6																																																							
Busbar Rating		A	A	63																																																							

Project: **Prototype Mosque_700Pax**
Subject: **Illumination Lighting Design calculation**
Revision:

Item	Description	Dimension		Area	Height H(wc)	Required Lux(E)	RFC (%)	Type of Fixtures	Lumens/ Fixture(LL)	Room Index	UF	MF	ExA	Actual No. of Fitting(N)	Actual Lux
		L	W										LLxUFxMF		
A															
a.1	Main entrance	3.5	3	10.5	3	240	80	LF05,17W, 230V, 4000K, WALL LIGHT,IP55	1600	0.538462	0.51	0.8	4	4	240
a.2	Hallway														
	Right Side	17.7	2	35.4	3	240	80	LF05,17W, 230V, 4000K, WALL LIGHT,IP55	1600	0.598985	0.44	0.8	15	15	240
	Left Side	17.7	2	35.4	3	240	80	LF05,17W, 230V, 4000K, WALL LIGHT,IP55	1600	0.598985	0.44	0.8	15	15	240
	Front hall	24.1	2.5	60.25	3	240	80	LF05,17W, 230V, 4000K, WALL LIGHT,IP55	1600	0.755013	0.51	0.8	22	22	240
a.3	Main prayer room														
	Right Side	19.50	5.85	114.08	3.5	500	80	LF14, 28W, 230V, 4000K, SURFACE MOUNTED DOWNLIGHT TYPE-2	3000	1.285714	0.56	0.8	42	29	500
								LF27, 500W, 230V, 3000K, CHANDELIER					1 set(13 bulb)		
	Left Side	19.50	5.85	114.08	3.5	500	80	LF14, 28W, 230V, 4000K, SURFACE MOUNTED DOWNLIGHT TYPE-2	3000	1.285714	0.56	0.8	42	29	500
								LF27, 500W, 230V, 3000K, CHANDELIER					1 set(13 bulb)		
	Middle	10.40	9.4	97.76	4.5	500	80	LF14, 28W, 230V, 4000K, SURFACE MOUNTED DOWNLIGHT TYPE-2	3000	1.097194	0.6	0.8	34	24	500
								LF27, 500W, 230V, 3000K, CHANDELIER					1 set(10 bulb)		
	Middle with cove	10.00	9.9	99.00	4.5	250	80	LF14, 28W, 230V, 4000K, SURFACE MOUNTED DOWNLIGHT TYPE-2	3000	1.105528	0.6	0.8	17	13	250
								LF10, 5W/m, 3000K STRIP LIGHT					4		
a.4	Imam/Idhan area	9.85	2.8	27.58	2.8	250	80	LF20,17W, 230V, 3000K, RECESSED DOWNLIGHT	2600	0.778656	0.37	0.8	9	9	250
a.5	Toilet	3.95	3.8	23.1	2.8	250	80	LF20,17W, 230V, 3000K, RECESSED DOWNLIGHT	2600	0.691705	0.44	0.8	6	6	250

GENERAL NOTES

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- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS

- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS

- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS

REVISIONS

REV NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

CONSULTANT

LEAD CONSULTANT

RIYAN PVT LTD

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

www.riyon.com.mv

CONSULTANT PROJECT NO.

R24002MIA

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INFRA DESIGNER	
DRAWN BY	CHESTER DIZA PERALTA
CHECKED BY	MOHAMED EVAN IBRAHIM
APPROVED BY	

PROJECT NAME

PROTOTYPE MOSQUES

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.

ISSUE DATE

29 MAY 2024

DRAWING TITLES

ELECTRICAL ILLUMINATION CALCULATION

SHEET SIZE

A1

SCALE

NTS

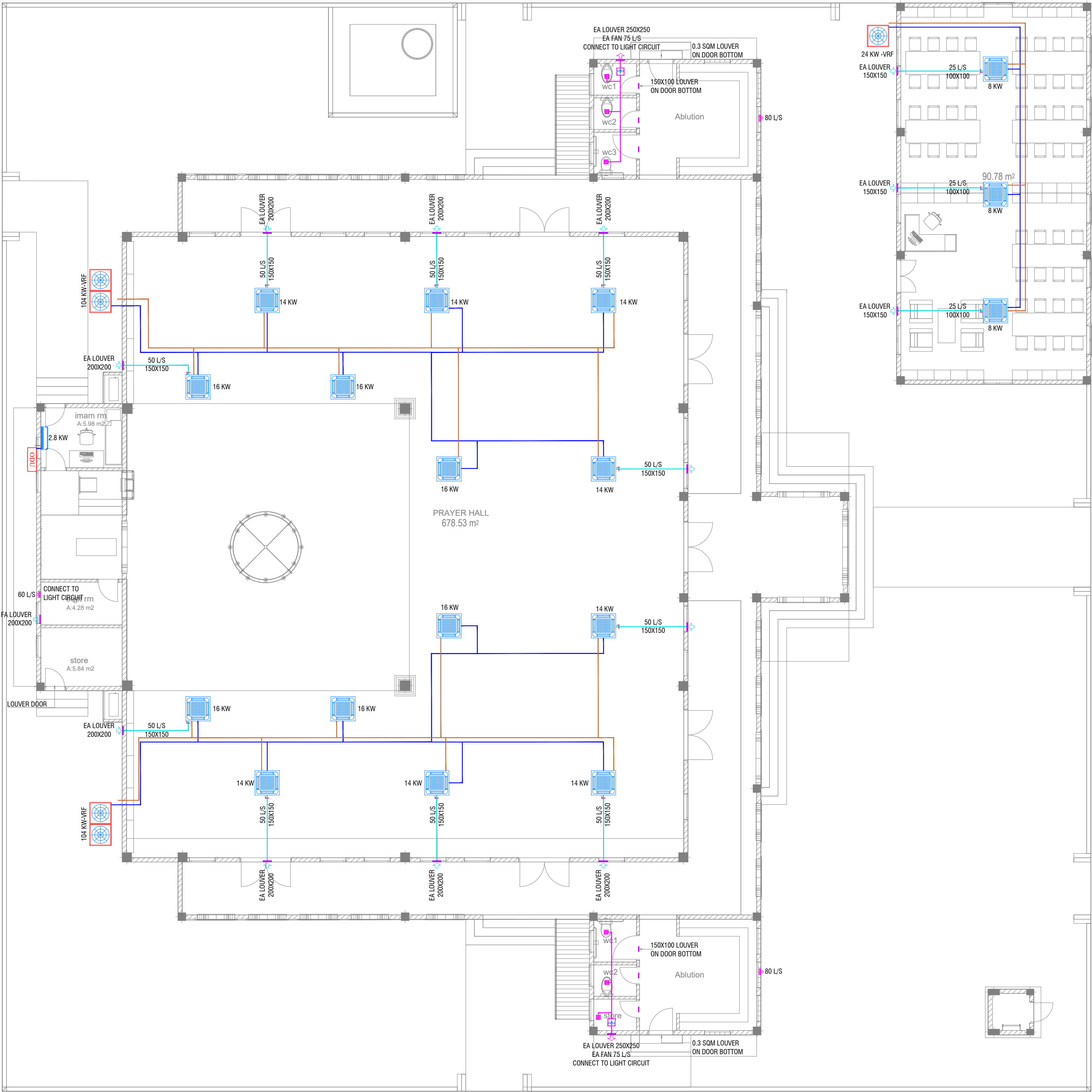
SHEET NO.

ELE - 10

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GROUND FLOOR_ACMV LAYOUT

SCALE 1:100



- ACMV NOTES
- CONTRACTOR SHALL BE RESPONSIBLE TO DO VERIFY DESIGN AND CALCULATIONS, PREPARE SHOP DRAWINGS CONFORMING TO LOCAL REGULATIONS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR ACMV POINTS INCLUDING CONDUITING, PIPING AND OTHER RELEVANT EQUIPMENT AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION.
 - THE AC UNIT SHALL BE SUITABLE FOR OPERATION UNDER TROPICAL CONDITION WITH AMBIENT TEMPERATURE AND RELATIVE HUMIDITY.
 - ALL ACMV EQUIPMENTS SHALL BE ANTI-CORROSIVE COATED.
 - FINAL INDOOR AND OUTDOOR CONFIGURATION SELECTION SHALL BE AS PER MANUFACTURE'S RECOMMENDATION
 - PROPER ACCESS FOR EASY MAINTENANCE TO BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER OF EQUIPMENTS ABOVE FALSE CEILING.
 - ALL CEILING SUSPENDED UNIT TO BE PROVIDED WITH ANTI-VIBRATION HANGERS (SPRING TYPE).
 - FLOOR MOUNTED OUTDOOR UNIT SHALL BE PLACED ON A VIBRATION MINIMIZING STRUCTURE SUCH AS H-BEAM FRAME OR A VIBRATION ISOLATION FRAME WITH ANTI CORROSION COATING AND AN ISOLATION PAD
 - ALUMINUM CLADDING TO BE PROVIDED OVER THE INSULATION FOR THE EXPOSED DUCT AND PIPE WORKS.
 - U-TRAP SHALL BE PROVIDED IN THE DRAIN PIPING (WHEREVER REQUIRED).
 - AIR OUTLET SHALL BE COMPLETELY FACTORY ALUMINUM EXTRUDED WITH POWDER COATED AND THE COLOR SHALL BE THE APPROVAL OF THE INTERIOR DESIGN.
 - LOUVER WITH BIRD SCREEN TO BE PROVIDED FOR ALL THE FRESH AIR AND EXHAUST AIR DUCT.
 - LOUVER WITH BIRD SCREEN AND FILTER TO BE PROVIDED FOR ALL THE FRESH AIR FAN DUCT
 - CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ELECTRICAL POWER REQUIREMENTS TO ELECTRICAL CONTRACTOR.
 - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DRAINAGE PIPING WITH PLUMBING CONTRACTOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL OTHER SERVICES.
 - CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATING THE STATIC PRESSURE.
 - CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY, CHANGE, REROUTE, RE-LOCATE AS PER THE SITE CONDITION AND SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO PROCUREMENT & CONSTRUCTION
 - CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS BEFORE STARTING WORKS.

ACMV LEGEND	
	CASSETTE UNIT
	OUTDOOR UNIT
	OUTDOOR UNIT (HANGER TYPE)
	WALL MOUNTED EXHAUST FAN
	WALL MOUNTED EXHAUST FAN
	AIR GRILL WITH DAMPER
	LOUVER WITH BIRD SCREEN
	RETURN AIR PIPE WITH INSULATION
	AC DRAIN PIPE WITH INSULATION
	FRESH AIR DUCT
	EXHAUST AIR DUCT
	SUPPLY AIR
	RETURN AIR
	FRESH AIR
	EXHAUST AIR
	TO BELOW
	TO ABOVE
	FROM ABOVE
	FROM BELOW

ACMV-DESIGN BASIS REPORT					
SPACES DECIPTION	COOLING LOAD [KW]	INDOOR UNIT	OUTDOOR UNIT	FRESH AIR	EXHAUST AIR [L/S]
Library	24.0	Cassette	VRF	10% airflow of indoor unit	
Prayer Hall	108.0	Cassette	VRF	10% airflow of indoor unit	
Imam Room	2.8	Wall mounted	Inverter Single split		
Egit Room					60
Store Room					
Ablution					80
WC 01					25
WC 02					25
WC 03					25
Ablution					80
WC 01					25
WC 02					25
Store					25

GENERAL NOTES

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INFRA. DESIGNER	
DRAWN BY	NITHEESH K. PUNARJAN
CHECKED BY	MOHAMED EVAN IBRAHIM
APPROVED BY	
PROJECT NAME	

PROTOTYPE MOSQUES

CLIENT MINISTRY OF ISLAMIC AFFAIRS

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ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR DD - DETAIL DESIGN

BUILDING NAME
MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO. ISSUE DATE
29 MAY 2024

DRAWING TITLES
GROUND FLOOR
AIR-CONDITIONING AND
MECHANICAL VENTILATION
LAYOUT

SHEET SIZE A1 SCALE 1:100












SHEET NO.
ACMV - 01

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PLUMBING GENERAL NOTES AND LEGENDS

- ALL PLUMBING WORKS INCLUDED HEREIN BE EXECUTED IN ACCORDANCE TO THE PROVISIONS OF THE MALDIVES PLUMBING CODE, NATIONAL BUILDING CODE AND OTHER RELEVANT INTERNATIONAL AND LOCAL CODES AND STANDARDS SET BY THE AUTHORITY HAVING JURISDICTIONS.
- COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER.
- PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT THE SITE AND COORDINATE THE WORKS WITH THE UTILITY SERVICE PROVIDER FOR SEWER LINE EFFLUENT AND DISPOSAL POINT AND WATERLINE SERVICE CONNECTION POINT
- ALL SLOPES FOR SEWER HORIZONTAL BRANCHES SHALL BE MAINTAINED AT 2% MINIMUM UNLESS OTHERWISE SPECIFIED.
- SIZE OF THE WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER’S INSTRUCTIONS.
- THE CONTRACTOR SHALL COORDINATE TO THE ENGINEER AND OTHER UTILITIES THE EQUIPMENT PLANS FOR THE REQUIRED EXACT SIZE, NUMBER AND LOCATIONS OF ALL SLEEVES OR OPENINGS THRU FLOOR SLABS AND WALLS.
- SANITARY INSTALLATIONS SHALL NOT IMPAIR THE STRENGTH OF ANY STRUCTURAL MEMBER. CONTRACTOR TO COORDINATE WITH STRUCTURAL FOR PLANS AND DETAILS.
- MATERIAL USED IN INSTALLATIONS SHALL BE OF APPROVED BRAND, FREE FROM ANY DEFECTS AND PASSES THE QUALITY SET FORTH BY THE REGULATORY AUTHORITY FOR STANDARDS.
- ALL FIXTURES SHALL BE INDIVIDUALLY VENTED OR AS INDICATED ON PLAN.
- WATER SUPPLY PIPES OR DISTRIBUTION LINE AND FITTINGS SHALL BE PPR-C PN10 CONFORMING TO DIN STANDARDS OR APPROVED EQUIVALENT.
- SANITARY, VENT AND DRAINAGE PIPES AND FITTINGS SHALL BE PVC IN ACCORDANCE TO ASTM D2564 OR APPROVED EQUIVALENT.
- SIZE OF THE SANITARY, STORM DRAINAGE, VENT AND WATER SUPPLY PIPES AND FITTINGS MUST CONFORM WITH THE SIZES STATED, SPECIFIED AND/OR SHOWN IN THESE PLANS. ALL PIPE SIZES INDICATED IN THE DRAWINGS ARE REFERENCE TO ITS OUTER DIAMETER AND DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- MINIMUM EARTH COVER OF 300MM SHALL BE OBSERVED FOR ALL SANITARY AND WATER SUPPLY LINES.
- CONNECT ALL SANITARY INSTALLATIONS WITH THE APPROPRIATE FITTINGS USING THE PROPER PROCEDURES AND METHODOLOGY. SEE MANUFACTURER’S STANDARD.
- CONDUCT PROPER ROUGHING-INS AND TESTING TO ENSURE THAT THE WORKS ARE LEAK FREE. ALL PRESSURED LINE MUST BE TESTED WITH PRESSURE 2.5 TIMES THE NORMAL WORKING PRESSURE.
- ALL PLUMBING FIXTURES SHALL BE AS PER ARCHITECT’S SPECIFICATIONS.
- ALL SANITARY INSTALLATIONS AS INDICATED HEREIN SHALL BE DONE AS PER PLANS AND SPECIFICATIONS. NO ALTERATIONS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE DESIGNER. THE CONTRACTOR SHALL NOTIFY AND CONSULT THE DESIGNER AND OR ITS REPRESENTATIVE ON THIS REGARD.
- ALL PIPES SHALL BE PROVIDED WITH ADEQUATE SUPPORTS, BRACKETS AND HANGERS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR APPROVAL OF THE ENGINEER.
- CONTRACTOR TO PREPARE ALL NECESSARY SHOP DRAWINGS AND SHALL SECURE APPROVAL FROM CONSULTANT OR PROJECT MANAGER PRIOR TO CONSTRUCTION OR START OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY, CHANGE, REROUTE, RELOCATE PLUMBING POINTS AS PER ACTUAL SITE CONDITION AND SHALL SUBMIT PRIOR SHOP DRAWING/S FOR APPROVAL BEFORE COMMENCING THE WORK OF THE PROPOSAL.








WATER SUPPLY LEGENDS:

SYMBOL	DESCRIPTION
	COLD WATER SUPPLY LINE
	GLOBE VALVE/ ISOLATION VALVE
	PIPE DOWN
	PIPE UP
	TEE
	TEE REDUCER
	WATER TAP
	HOSE BIBS
	HAND SHOWER BIDET
	WATER SUPPLY TAPPING POINT
	REDUCER
NPT	NATIONAL PIPE THREAD
IV	ISOLATION VALVE
GV	GATE VALVE
CV	CHECK VALVE
FLV	FLOAT VALVE
HB	HOSE BIB
CWL	COLD WATERLINE
HWL	HOT WATERLINE
FWL	FLUSHING WATERLINE
RWL	RECOVERED WATERLINE
HWL-RL	HWL – RETURN LINE
CWL-AC	CWL – ABOVE CEILING
CWL-UG	CWL – UNDERGROUND

WASTE PIPE DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	SOIL PIPE
	WASTE PIPE
	VENT PIPE
	STACK
	VENT STACK THRU ROOF
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	FLOOR DRAIN OR GULLY
	SLOPE – FLOW DIRECTION
SP / SS	SOIL PIPE / SOIL STACK
WP / WS	WASTE PIPE / WASTE STACK
VP / VS	VENT PIPE / VENT STACK
VSTR	VENT STACK THRU ROOF
FCO / GCO	FLOOR CLEAN OUT/GROUND CLEAN OUT
CCO	CEILING CLEAN OUT
WCO	WALL CLEAN OUT
FG / FD	FLOOR GULLY / FLOOR DRAIN
AC	ABOVE CEILING
US	UNDER SLAB
UG	UNDERGROUND

RAINWATER DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	RAINWATER DRAIN PIPE TO TANK
	RAINWATER FIRST FLUSH PIPE
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	SPLASH TO GROUND
	SLOPE – FLOW DIRECTION
RWDP	RAINWATER DOWN PIPE / SPOUT
RWDP	RAINWATER DRAINAGE PIPE
FCO / GCO	FLOOR CLEAN OUT/GROUND CLEAN OUT
WCO	WALL CLEAN OUT
AC	ABOVE CEILING
US	UNDER SLAB
UG	UNDERGROUND

GENERAL NOTES

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INT. DESIGNER	
INFRA. DESIGNER	
DRAWN BY	MARK KENN BRITO
CHECKED BY	NITHEESH K. PUNARJAN
APPROVED BY	

PROJECT NAME

PROTOTYPE MOSQUES

CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	
ISSUED FOR	DD - DETAIL DESIGN

BUILDING NAME

MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES

PLUMBING NOTES AND LEGENDS

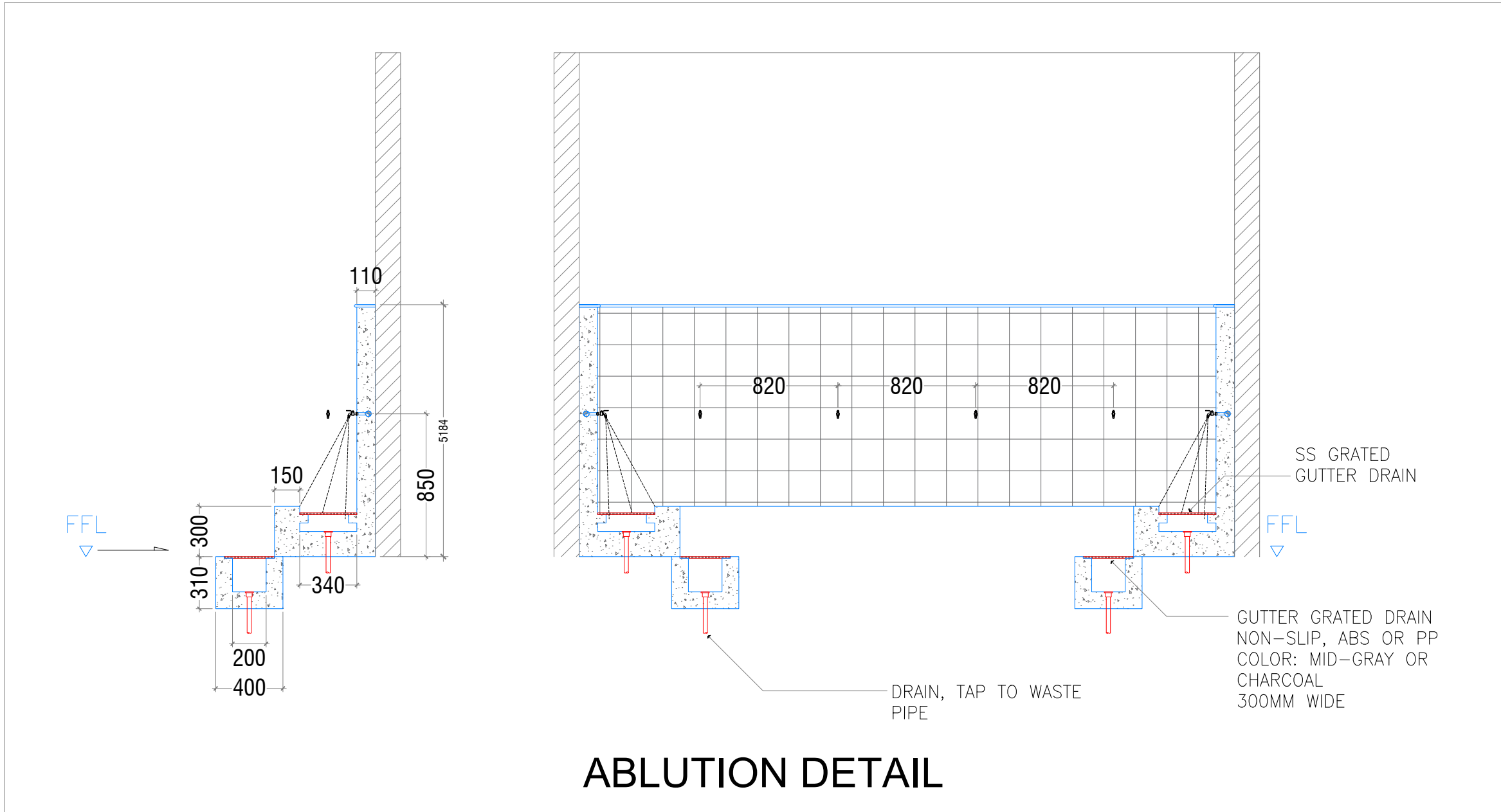
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SHEET NO.

PL - 01

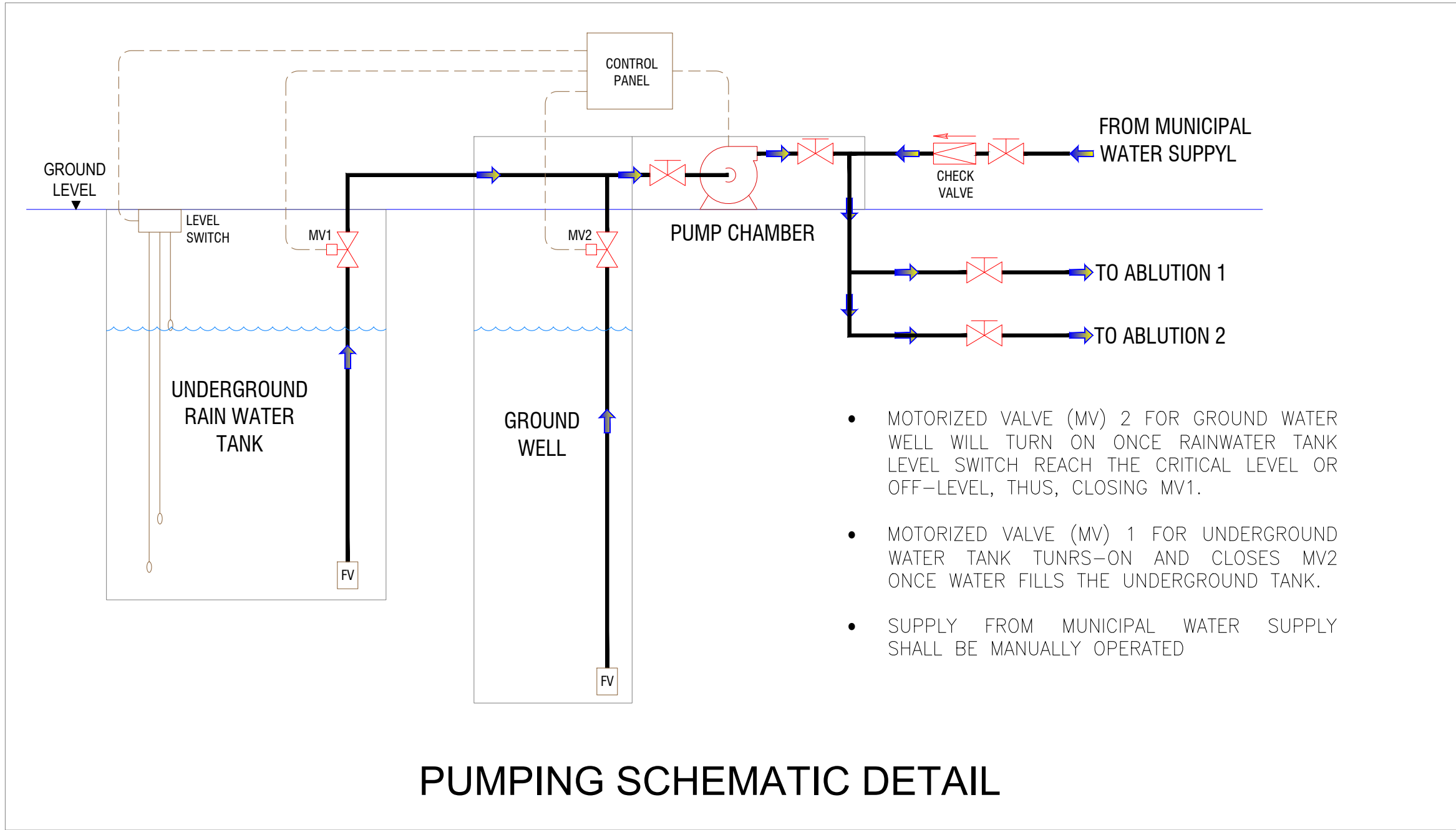
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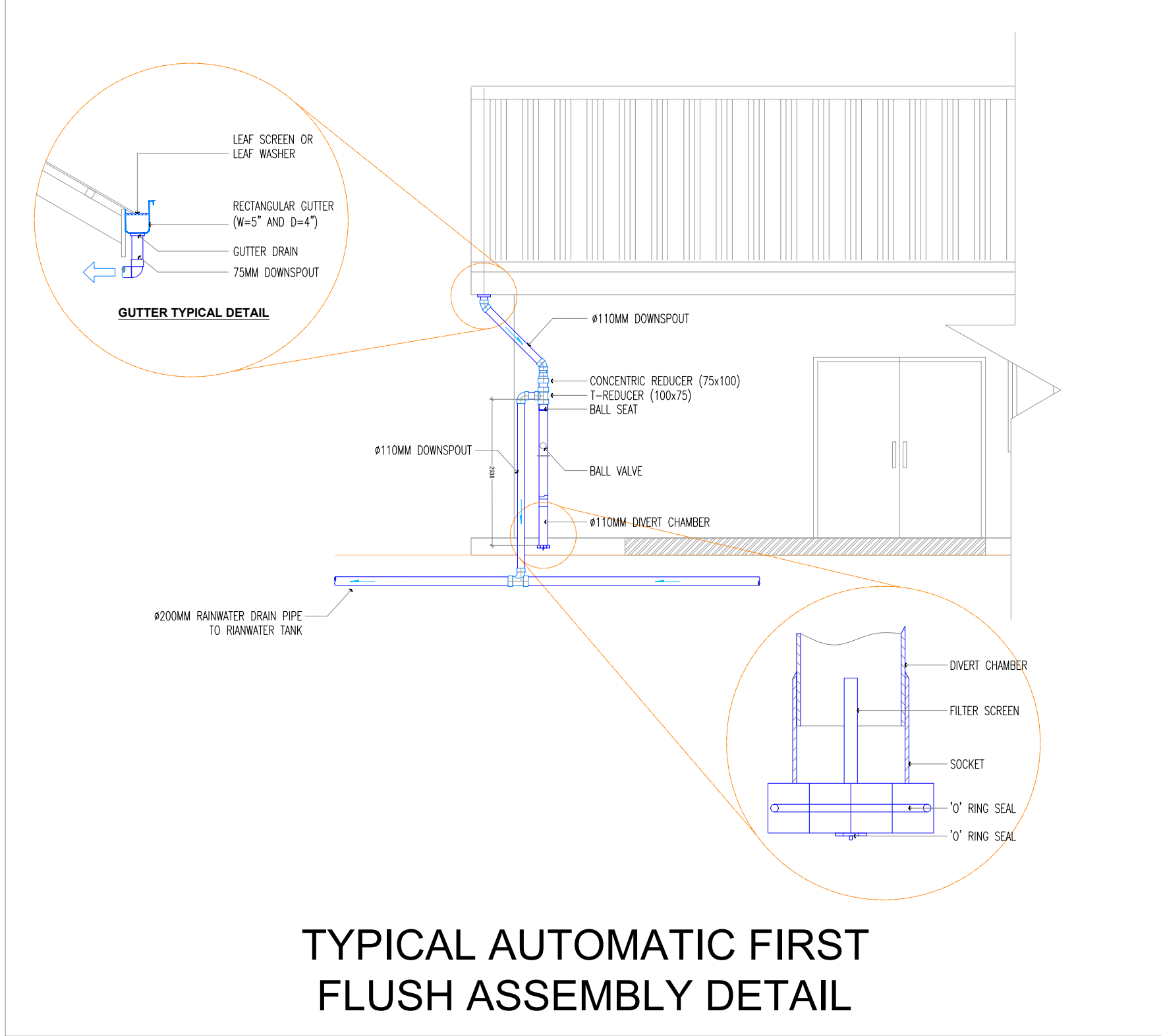
ABLUTION DETAIL

PUMPING SCHEMATIC DETAIL:



PUMPING SCHEMATIC DETAIL

TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL:



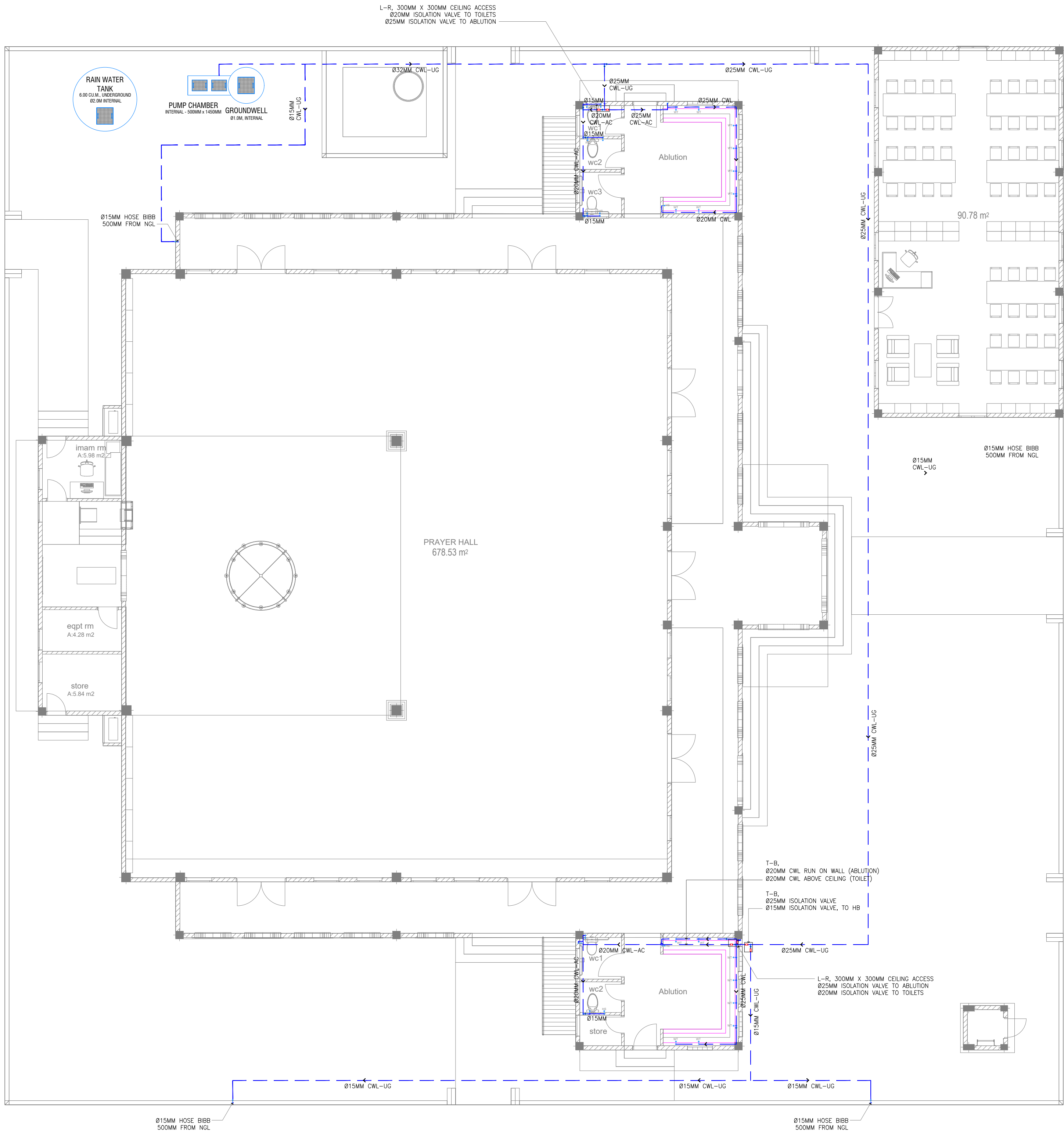
TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL

FLOW RATE AND PUMP SIZING:

I. No. Of Fixtures				
Fixtures		No. of Fixtures	Fixture Flowrate, GPM	Flow Pressure, psi
1. Water Closet, 4.8 LPF Gravity Tank		5	25	20
2. Faucet		16	2.2	20
3. Hose Bibs		4	5	8
4. Bidet		7	2.5	20
II. Maximum/ Probable Demand and Pump Size				
Fixtures		Gallons per Minute		
1. Water Closet, 4.8 LPF Gravity Tank		125		
2. Faucet		35.2		
3. Hose Bibs		20		
4. Bidet		17.5		
Total		197.7		
Maximum Demand, gpm		200		
Flowrate (required) m ³ /sec		0.0126		
Head (m.head)		20.00		
- Suction Head	3.00			
- Delivery	3.00			
- Fixture Pressure – (20psi)	14.00			
Pump Efficiency		75%		
Pump Capacity, (HP)		0.34		

GROUND FLOOR_WATER SUPPLY LAYOUT

SCALE 1:100



WATER SUPPLY LEGENDS:

SYMBOL	DESCRIPTION
	COLD WATER SUPPLY LINE
	GLOBE VALVE/ ISOLATION VALVE
	PIPE DOWN
	PIPE UP
	TEE
	TEE REDUCER
	WATER TAP
	HOSE BIBBS
	HAND SHOWER BIDET
	WATER SUPPLY TAPPING POINT
	REDUCER
NPT	NATIONAL PIPE THREAD
IV	ISOLATION VALVE
GV	GATE VALVE
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FLV	FLOAT VALVE
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CWL	COLD WATERLINE
HWL	HOT WATERLINE
FWL	FLUSHING WATERLINE
RWL	RECOVERED WATERLINE
HWL-RL	HWL - RETURN LINE
CWL-AC	CWL - ABOVE CEILING
CWL-UG	CWL - UNDERGROUND

GENERAL NOTES

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APPROVED BY	

PROJECT NAME

PROTOTYPE MOSQUES

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR

DD - DETAIL DESIGN

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MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
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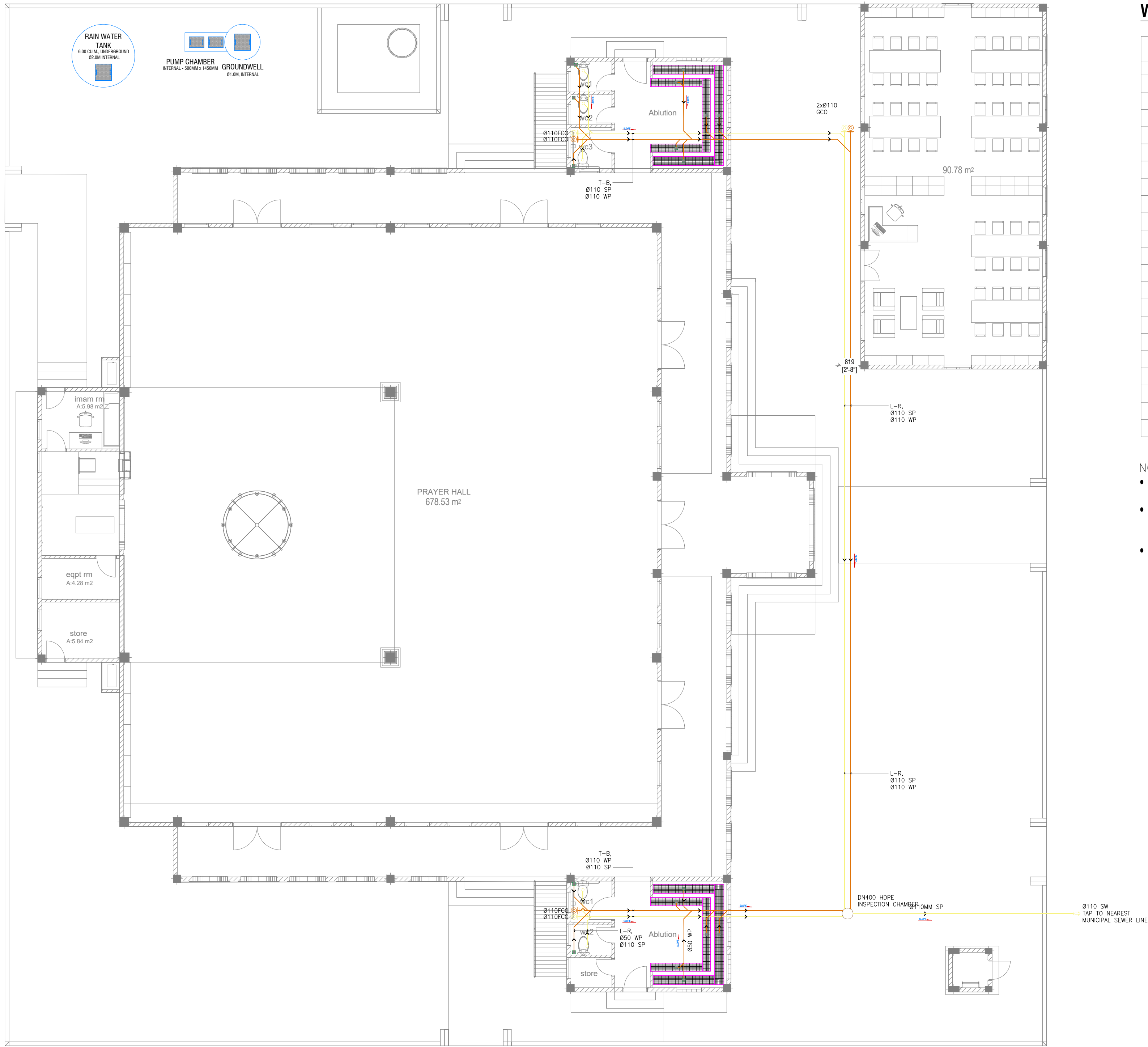
DRAWING TITLES

GROUND FLOOR

WATER SUPPLY LAYOUT

SHEET SIZE	A1	SCALE	1:100
SHEET NO.			
PL - 03			

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WASTE PIPE DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	SOIL PIPE
	WASTE PIPE
	VENT PIPE
	STACK
	VENT STACK THRU ROOF
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	FLOOR DRAIN OR GULLY
	SLOPE - FLOW DIRECTION
SP / SS	SOIL PIPE / SOIL STACK
WP / WS	WASTE PIPE / WASTE STACK
VP / VS	VENT PIPE / VENT STACK
VSTR	VENT STACK THRU ROOF
FCO / GCO	FLOOR CLEAN OUT/GROUND CLEAN OUT
CCO	CEILING CLEAN OUT
WCO	WALL CLEAN OUT
FG / FD	FLOOR GULLY / FLOOR DRAIN
AC	ABOVE CEILING
US	UNDER SLAB
UG	UNDERGROUND

NOTE:

- EACH BASIN SHALL BE PROVIDED WITH A MINIMUM Ø40MM DIA. OUTLET PIPE.
- SANITARY, VENT AND DRAINAGE PIPES AND FITTINGS SHALL BE PVC IN ACCORDANCE TO ASTM D2564 OR APPROVED EQUIVALENT
- ALL SLOPES FOR SEWER HORIZONTAL BRANCHES SHALL BE MAINTAINED AT 2% MINIMUM UNLESS OTHERWISE SPECIFIED.

GROUND FLOOR_WASTE PIPE DRAINAGE LAYOUT
SCALE 1:100



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APPROVED BY	

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PROTOTYPE MOSQUES

CLIENT MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER
ATOLL
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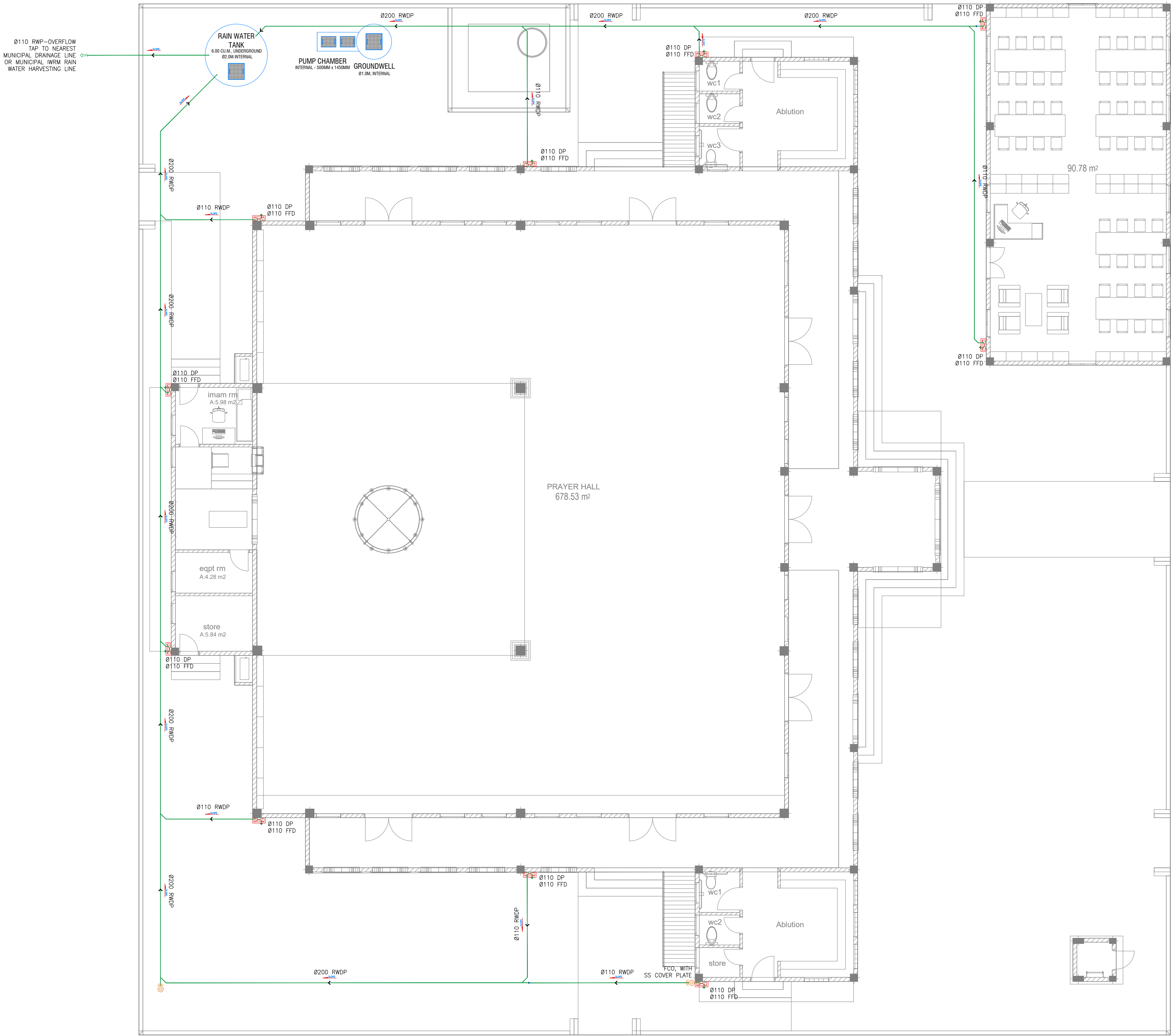
BUILDING NAME
MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE 29 MAY 2024
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DRAWING TITLES
**GROUND FLOOR
WASTE PIPE DRAINAGE
LAYOUT**

SHEET SIZE	A1	SCALE	1:100
SHEET NO.	PL - 04		

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RAINWATER DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	RAINWATER DRAIN PIPE TO TANK
	RAINWATER FIRST FLUSH PIPE
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	SPLASH TO GROUND
	SLOPE -- FLOW DIRECTION
RWDP	RAINWATER DOWN PIPE / SPOUT
RWDP	RAINWATER DRAINAGE PIPE
FCO / GCO	FLOOR CLEAN OUT/GROUND CLEAN OUT
WCO	WALL CLEAN OUT
AC	ABOVE CEILING
US	UNDER SLAB
UG	UNDERGROUND

- NOTE:
- MINIMUM FIXTURE PIPE CONNECTIONS SHALL BE 15MM OR 1/2". OR REFER TO THE PRODUCT OR MANUFACTURER'S REQUIREMENT. SIZE OF THE WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- NOTE:
- EACH BASIN SHALL BE PROVIDED WITH A MINIMUM Ø40MM DIA. OUTLET PIPE.
 - SANITARY, VENT AND DRAINAGE PIPES AND FITTINGS SHALL BE PVC IN ACCORDANCE TO ASTM D2564 OR APPROVED EQUIVALENT
 - ALL SLOPES FOR SEWER HORIZONTAL BRANCHES SHALL BE MAINTAINED AT 2% MINIMUM UNLESS OTHERWISE SPECIFIED.

GROUND FLOOR_RAINWATER DRAINAGE AND HARVESTING LAYOUT
SCALE 1:100



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MEP ENGINEER	MARK KENN BRITO
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INFRA. DESIGNER	
DRAWN BY	MARK KENN BRITO
CHECKED BY	NITHEESH K. PUNARJAN
APPROVED BY	

PROJECT NAME

PROTOTYPE MOSQUES

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR

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MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
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DRAWING TITLES

GROUND FLOOR

RAINWATER DRAINAGE AND HARVESTING LAYOUT

SHEET SIZE	A1	SCALE	1:100
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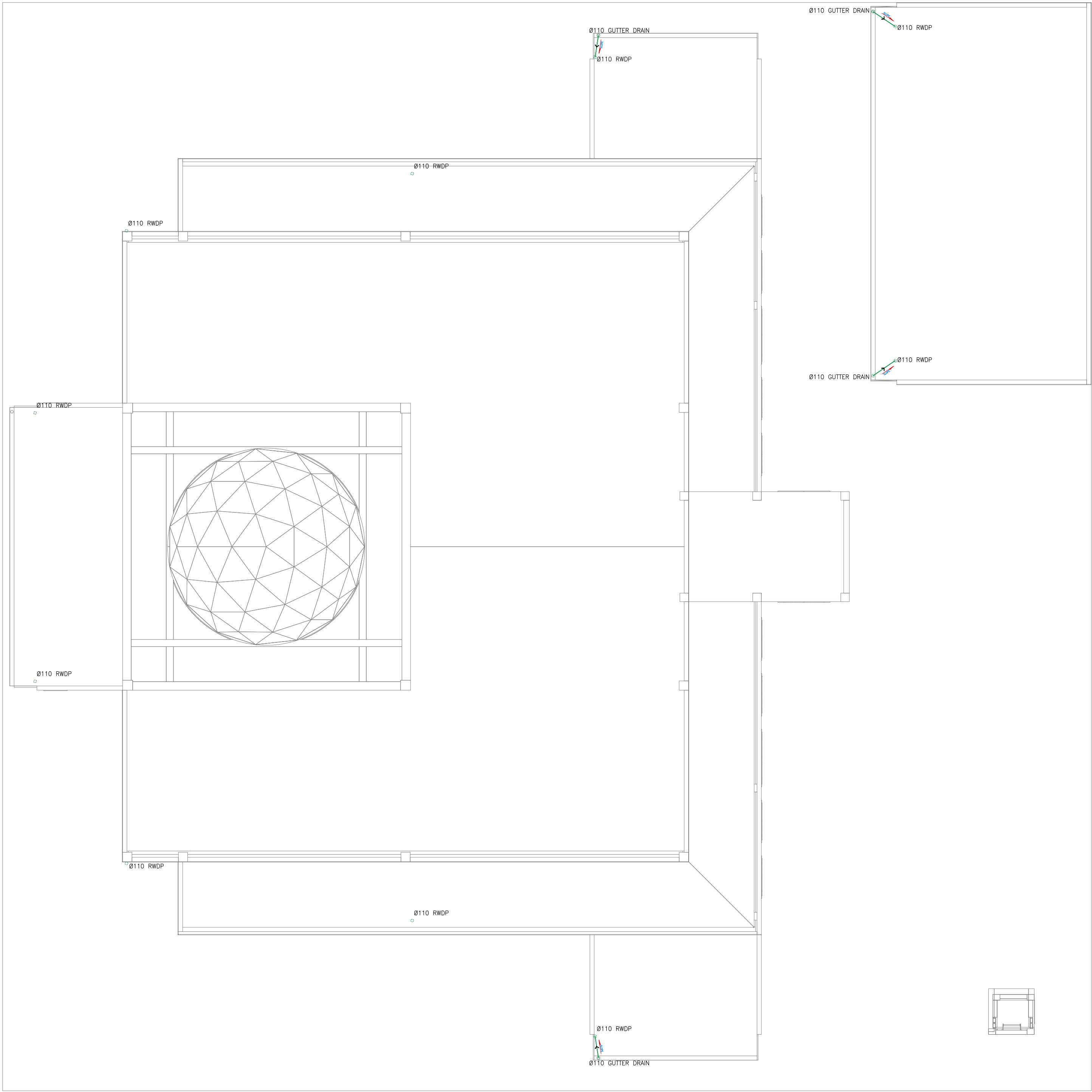
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ROOF_RAINWATER DRAINAGE AND HARVESTING LAYOUT

SCALE 1:100



RAINWATER DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	RAINWATER DRAIN PIPE TO TANK
	RAINWATER FIRST FLUSH PIPE
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	SPLASH TO GROUND
	SLOPE - FLOW DIRECTION
	RAINWATER DOWN PIPE / SPOUT
	RAINWATER DRAINAGE PIPE
	FLOOR CLEAN OUT/GROUND CLEAN OUT
	WALL CLEAN OUT
	ABOVE CEILING
	UNDER SLAB
	UNDERGROUND

- NOTE:
- MINIMUM FIXTURE PIPE CONNECTIONS SHALL BE 15MM OR 1/2". OR REFER TO THE PRODUCT OR MANUFACTURER'S REQUIREMENT. SIZE OF THE WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- NOTE:
- EACH BASIN SHALL BE PROVIDED WITH A MINIMUM Ø40MM DIA. OUTLET PIPE.
 - SANITARY, VENT AND DRAINAGE PIPES AND FITTINGS SHALL BE PVC IN ACCORDANCE TO ASTM D2564 OR APPROVED EQUIVALENT
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DRAWING TITLES

ROOF

RAINWATER DRAINAGE AND HARVESTING LAYOUT

SHEET SIZE	A1	SCALE	1:100
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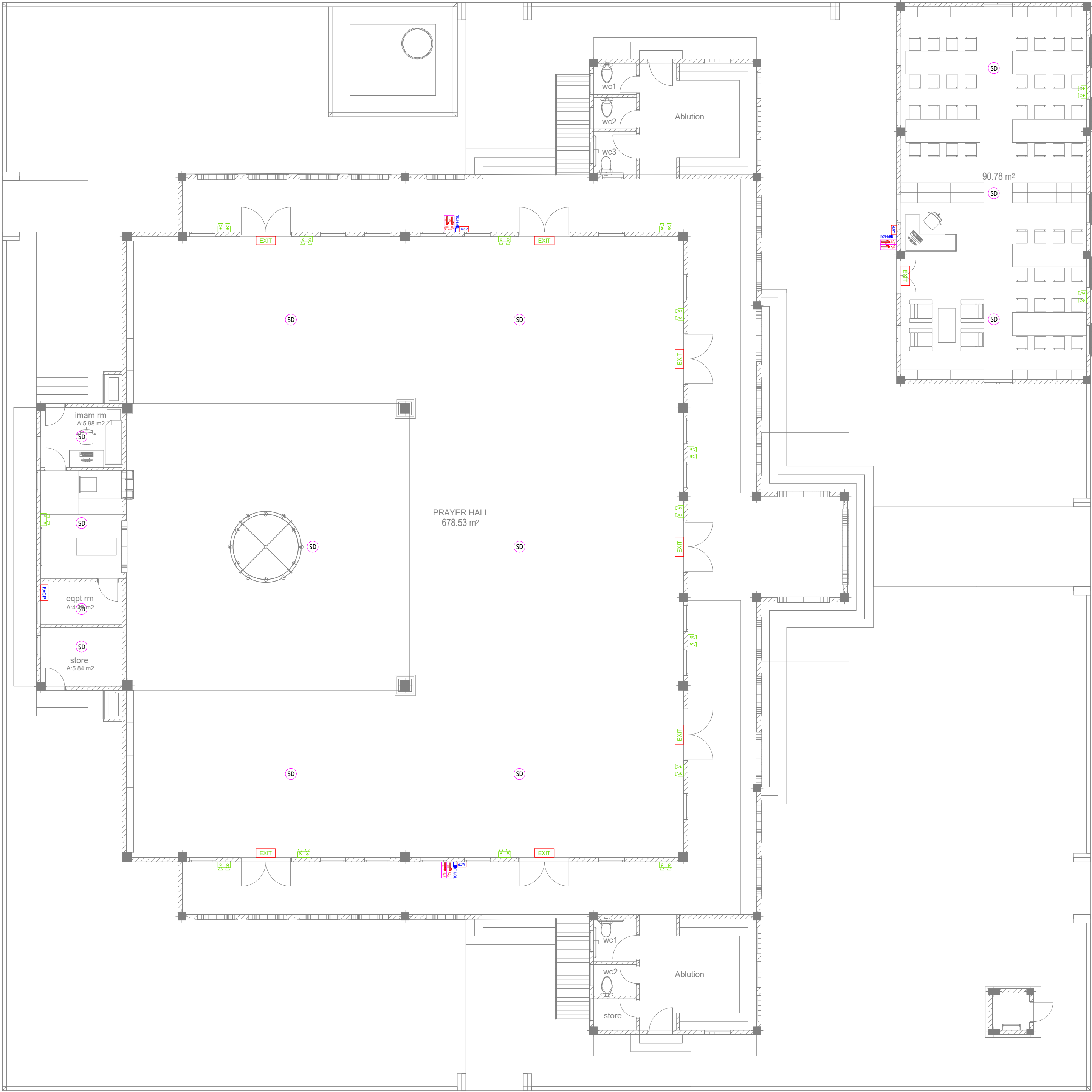
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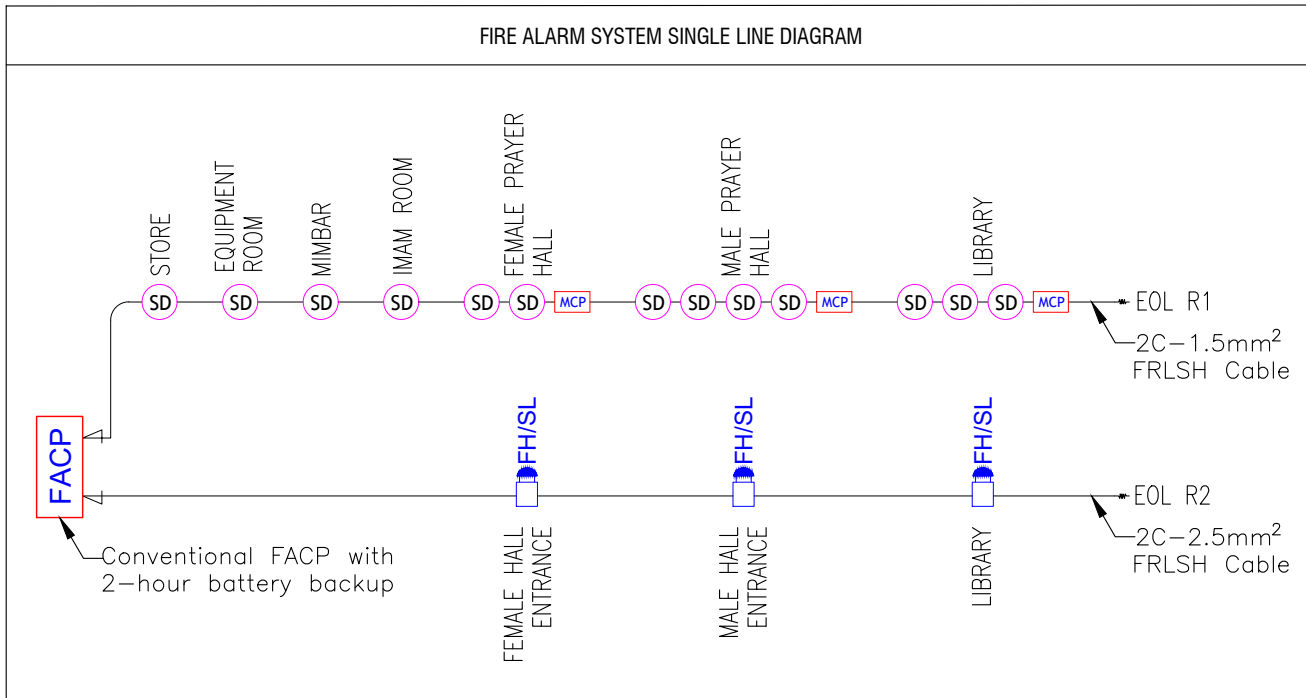
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GROUND FLOOR_FDP LAYOUT

SCALE 1:100



- FDP NOTES
- ALL FIRE DETECTION AND PROTECTION (FDP) EQUIPMENT & INSTALLATIONS MUST MEET THE REQUIREMENTS SET BY LOCAL REGULATION & GUIDELINES. ALL FIRE DRAWINGS, EQUIPMENT, INSTALLATIONS, AND COMMISSIONING SHALL BE APPROVED AND INSPECTED BY MALDIVES MINISTRY OF DEFENCE.
 - ALL CALL POINTS, SOUNDERS, STROBES, AND DETECTORS CONNECTED TO THE RESPECTIVE CONVENTIONAL FIRE ALARM CONTROL PANEL.
 - CONTRACTOR TO VERIFY CALCULATIONS, PREPARE SHOP DRAWINGS CONFORMING TO LOCAL REGULATIONS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR FIRE ALARM SYSTEM AND OTHER RELEVANT FDP POINT LOCATIONS INCLUDING CONDUITING, PIPING, WIRING AND OTHER RELEVANT EQUIPMENT AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY, CHANGE, REROUTE, RELOCATE THE FDP POINTS AS PER THE SITE CONDITIONS AND SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO CONSTRUCTION.
 - ALL FIRE CABLES AND CONDUITS SHOULD BE IN ACCORDANCE TO NFPA 70 AND SHALL BE FIRE RETARDANT LOW SMOKE & HALOGEN (FRLSH) TYPE. MINIMUM CABLE SIZES:
 - DETECTION CIRCUITS - 1.5mm²/,
 - SOUNDER & ANNUNCIATOR CIRCUITS - 2.5mm²/,
 - NETWORK CONTROL PANELS - 1.0mm²/
 - CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE EMERGENCY EVACUATION PLAN ACCORDING TO LOCAL REGULATIONS.
 - FIRE DETECTORS SHALL NOT BE MOUNTED WITHIN 500mm OF ANY OBSTRUCTION, AND SHALL NOT BE PLACED LESS THAN 1 METER FROM ANY ACAY AIR FLOW UNITS.
 - LOCATION OF SMOKE DETECTORS TO BE COORDINATED WITH FINAL APPROVED REFLECTED CEILING SHOP DRAWING. BEAMS SHALL BE TREATED AS WALLS IF THE BEAMS ARE DEEPER THAN 10% OF THE CEILING HIEGHT IN AREAS WHERE FALSE CEILINGS ARE NOT INSTALLED.
 - ALL PORTABLE FIRE EXTINGUISHERS SHALL BE IN CABINETS APPROVED BY MINISTRY OF DEFENCE AND ARCHITECT (EXTERNAL CABINETS SHOULD BE WEATHER PROOF).
 - ALL EXTERNAL FIRE DETECTION AND PROTECTION EQUIPMENT (SUCH AS MCP, SOUNDERS, STROBE LIGHTS, CABINETS, EMERGENCY LIGHT, ETC.) SHALL BE WEATHER PROOF TYPE.
 - EMERGENCY ILLUMINATION SHALL CONFORM TO NFPA 101 STANDARDS, WHEREBY BATTERY BACKUP SHALL BE OF MINIMUM 90 MINUTES IN THE EVENT OF FAILURE OF NORMAL LIGHTING. ILLUMINATION MUST NOT BE LESS THAN AN AVERAGE OF 1 FOOT CANDLE ALONG THE PATH OF EGRESS.



- FDP LEGENDS
- SD SMOKE DETECTOR
 - HD HEAT DETECTOR
 - FB FIRE BLANKET
 - MCP MANUAL CALL POINT
 - EXIT EXIT SIGN (MINIMUM 90 MINUTES BATTERY BACKUP AND 80 LUMENS)
 - EL EMERGENCY LIGHT (MINIMUM 90 MINUTES BATTERY BACKUP AND 300 LUMENS)
 - FSL FIRE ALARM SOUNDER W/ STROBE LIGHT 95dB
 - CO2 CO2 EXTINGUISHER (LOAD: 2KG) IN WEATHER PROOF ENCLOSURE (TYP.)
 - H2O H2O EXTINGUISHER (LOAD: 9L) IN WEATHER PROOF ENCLOSURE (TYP.)
 - DCP DCP EXTINGUISHER (LOAD: 6KG) IN WEATHER PROOF ENCLOSURE (TYP.)
 - FACP CONVENTIONAL FIRE ALARM CONTROL PANEL (WITH 2-HOUR BATTERY BACK UP)

GENERAL NOTES

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- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.
- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.

REVISIONS

REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY

CONSULTANT

LEAD CONSULTANT
RIYAN PVT LTD

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED
www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	ISMAL RASHEED
CIVIL ENGINEER	ZAINAL A. ALI RASHEED
MEP ENGINEER	MOHAMED EVAN IBRAHIM
INT. DESIGNER	
INFRA. DESIGNER	
DRAWN BY	MOHAMED EVAN IBRAHIM
CHECKED BY	CHESTER DIZA PERALTA
APPROVED BY	

PROJECT NAME
PROTOTYPE MOSQUES

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR
DD - DETAIL DESIGN

BUILDING NAME
MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE 29 MAY 2024
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DRAWING TITLES
GROUND FLOOR
FIRE DETECTION AND
PROTECTION LAYOUT

SHEET SIZE A1 SCALE 1:100

SHEET NO.
FDP - 01

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