

Prototype Mosques : 700 pax
Client: Ministry of Islamic Affairs




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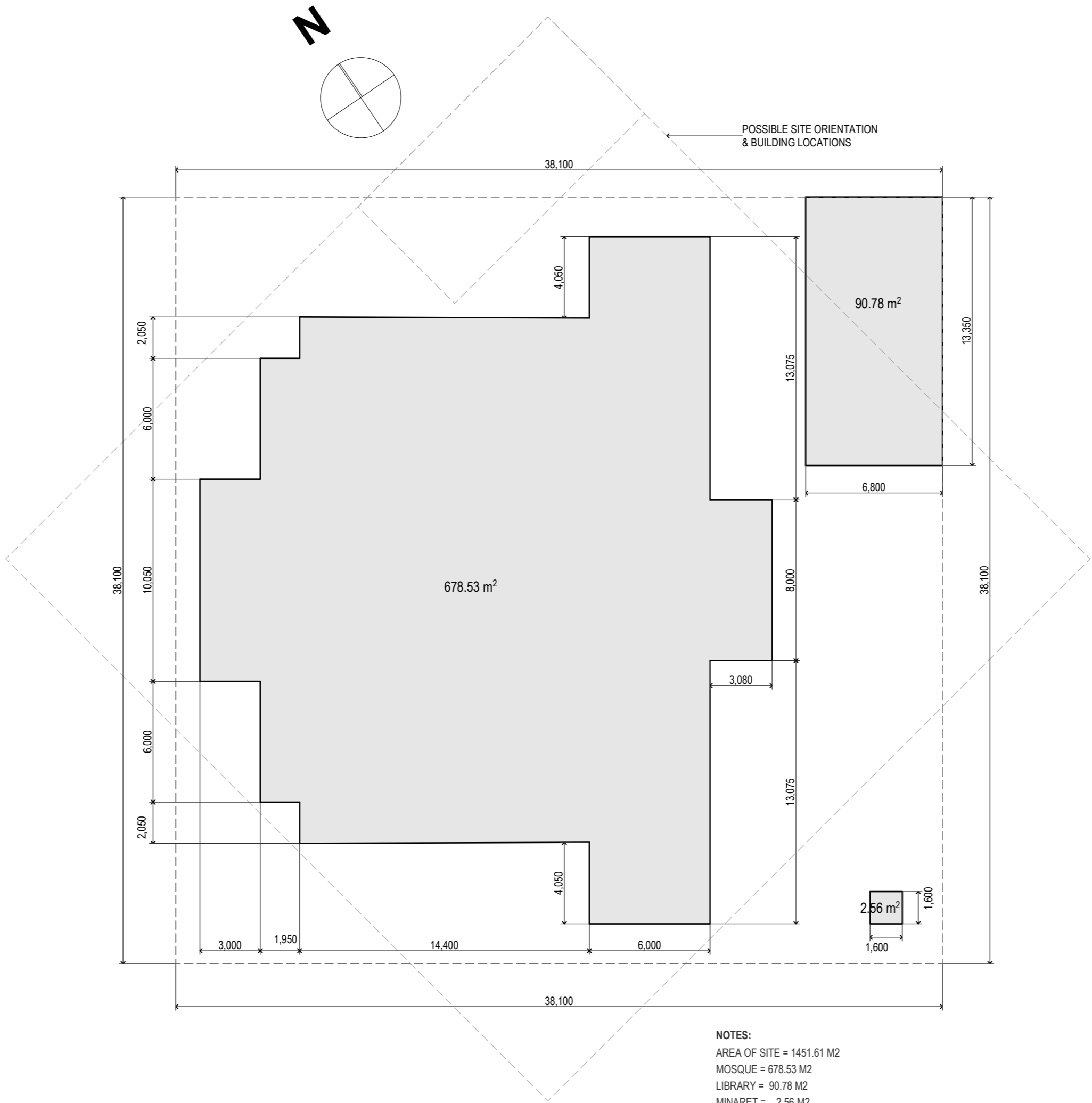
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Sheet Index					
Subset Name	Layout ID	Layout Name	Remark	Modified by	Master Layout
		Cover Page			A2 L2
		Sheet Index			A2 L
	A.01	Site Plan			A2 L
Floor Plans					
	A.02.1	Ground Floor Plan			A1 L
	A.02.2	Roof Level 1			A1 L
	A.02.3	Roof Level 2			A1 L
	A.02.4	Reflected Ceiling Plan			A2 L
Elevations					
	A.03.1	E-01 & E-03 Elevations			A2 L
	A.03.2	E-02 & E-04 Elevations			A2 L
Sections					
	A.04.1	S-01 & S-02 Building Section			A2 L
	A.04.2	S-03 & S-04 Building Section			A2 L
	A.04.3	S-05 & S-06 Building Section			A2 L
Openings					
	A.05.1	All Openings Schedule			A2 L
	A.05.2	All Openings Schedule			A2 L
	A.05.3	All Openings Schedule			A2 L
	A.05.4	Arches Structure			A2 L
Architectural Details					
	A.06.1	Site Details			A2 L
	A.06.2	Boundary Wall Details			A2 L
	A.06.3	Material Finishes			A2 L
	A.06.4	Ablution Area & Details			A2 L
	A.06.5	Feature Details			A2 L
	A.06.6	Geometric Patterns			A2 L
	A.06.7	Mihrab & Mimbar Details			A2 L
	A.06.8	Interior Details			A2 L
Minaret					
	A.07.1	Minaret Details			A2 L
	A.07.2	Minaret Deails			A2 L
	A.07.3	Minaret Details			A2 L
Structural Plans					
	S.01.1	General Notes 1			A2 L
	S.01.2	General Notes 2			A2 L
	S.01.3	Foundation Layout			A2 L
	S.01.4	Ground Slab Plan			A2 L
	S.01.5	Roof Beam Plan			A2 L
	S.01.6	Roof Framing Plan			A2 L
Structural Details					
	S.03.1	Structural Details			A2 L
	S.03.2	Part Section Detail			A2 L
	S.03.3	Roofing Details			A2 L

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Prototype Mosques		
CLIENT	Ministry of Islamic Affairs	
DEVELOPER		
ATOLL		
ISLAND		
LAGOON (GPS COORDINATES)		latitude N, longitude E
ISSUED FOR		
DD - DETAIL DESIGN		
BUILDING NAME		
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BUILDING/STRUCTURE NO.		ISSUE DATE
		11/6/2024
DRAWING TITLES		
Sheet Index		
TITLE2		
TITLE3		
TITLE4		
SHEET SIZE	A2	SCALE
SHEET NO.		

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SITE PLAN
Scale: 1:200

NOTES:
AREA OF SITE = 1451.61 M2
MOSQUE = 678.53 M2
LIBRARY = 90.78 M2
MINARET = 2.56 M2
TOTAL BUILT UP AREA = 771.87 M2
AVAILABLE OPEN AREA = 679.74 M2

GENERAL NOTES

REVISIONS

REV.NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY
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RYAN PRIVATE LIMITED
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CONSULTANT PROJECT NO. R24002MA

ARCHITECT Ismail Rasheed

INT. DESIGNER #Int. Designer

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Prototype Mosques

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DRAWING TITLES

Site Plan

TITLE2

TITLE3

TITLE4

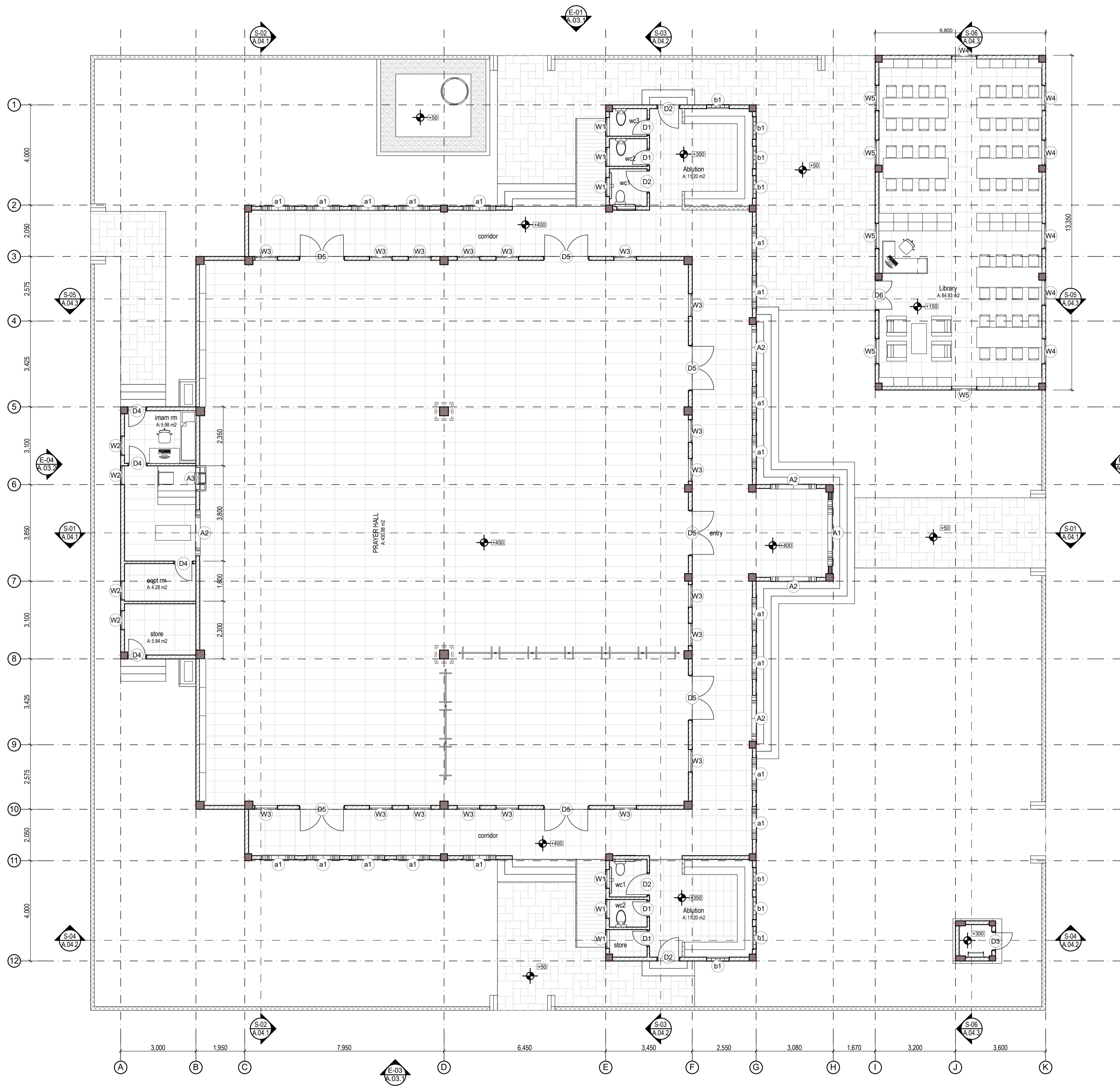
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SHEET SIZE A2 SCALE 1:200

SHEET NO.

A.01

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GROUND FLOOR PLAN
Scale: 1:100

CONCRETE STRUCTURAL ELEMENTS
BLOCK MASONRY, FULL WALLS
BLOCK MASONRY, HALF WALLS (0.9M, 1.2M)

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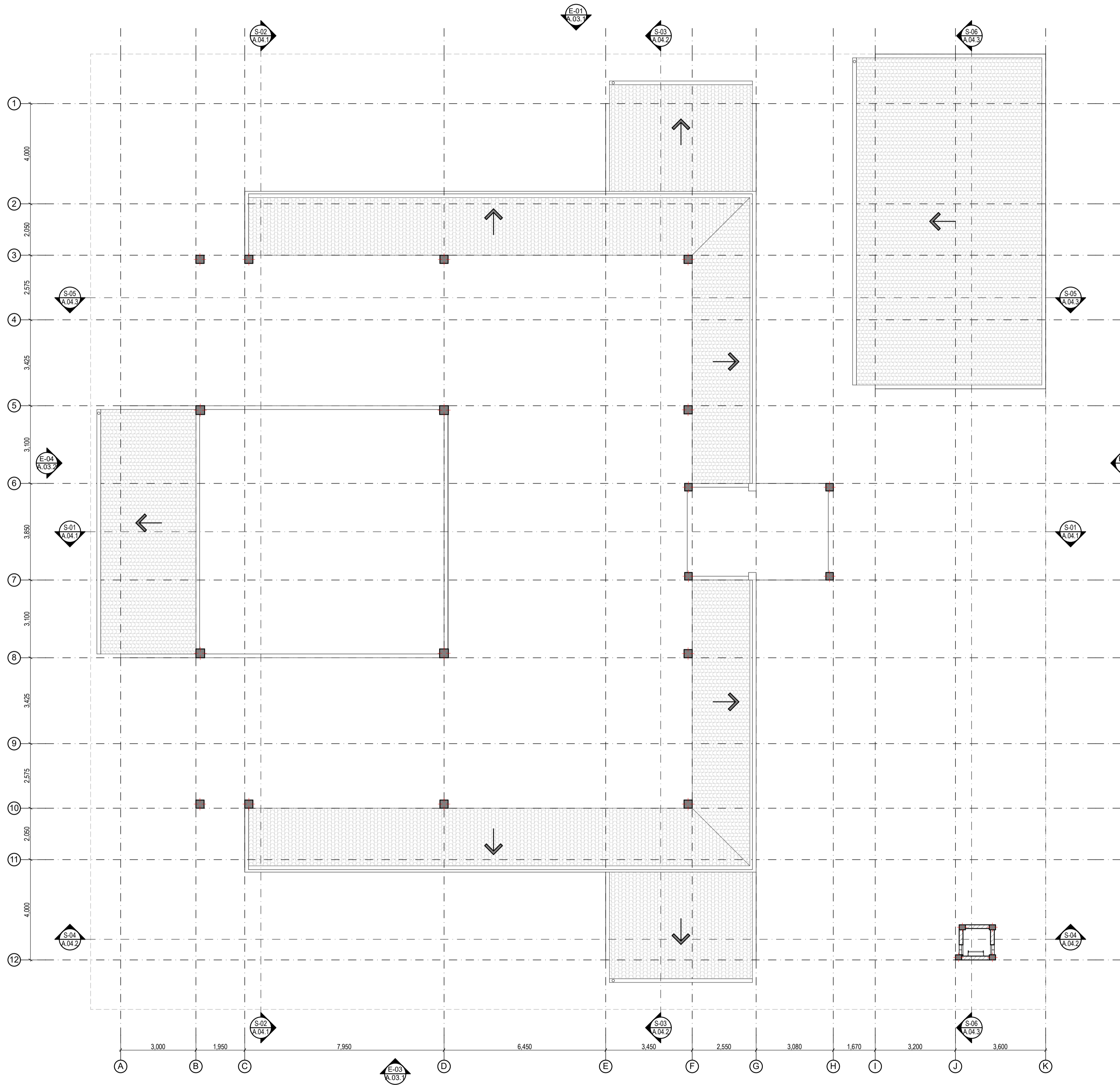
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DRAWING TITLES	
Ground Floor Plan	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	
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ROOF LEVEL 1
Scale: 1:100

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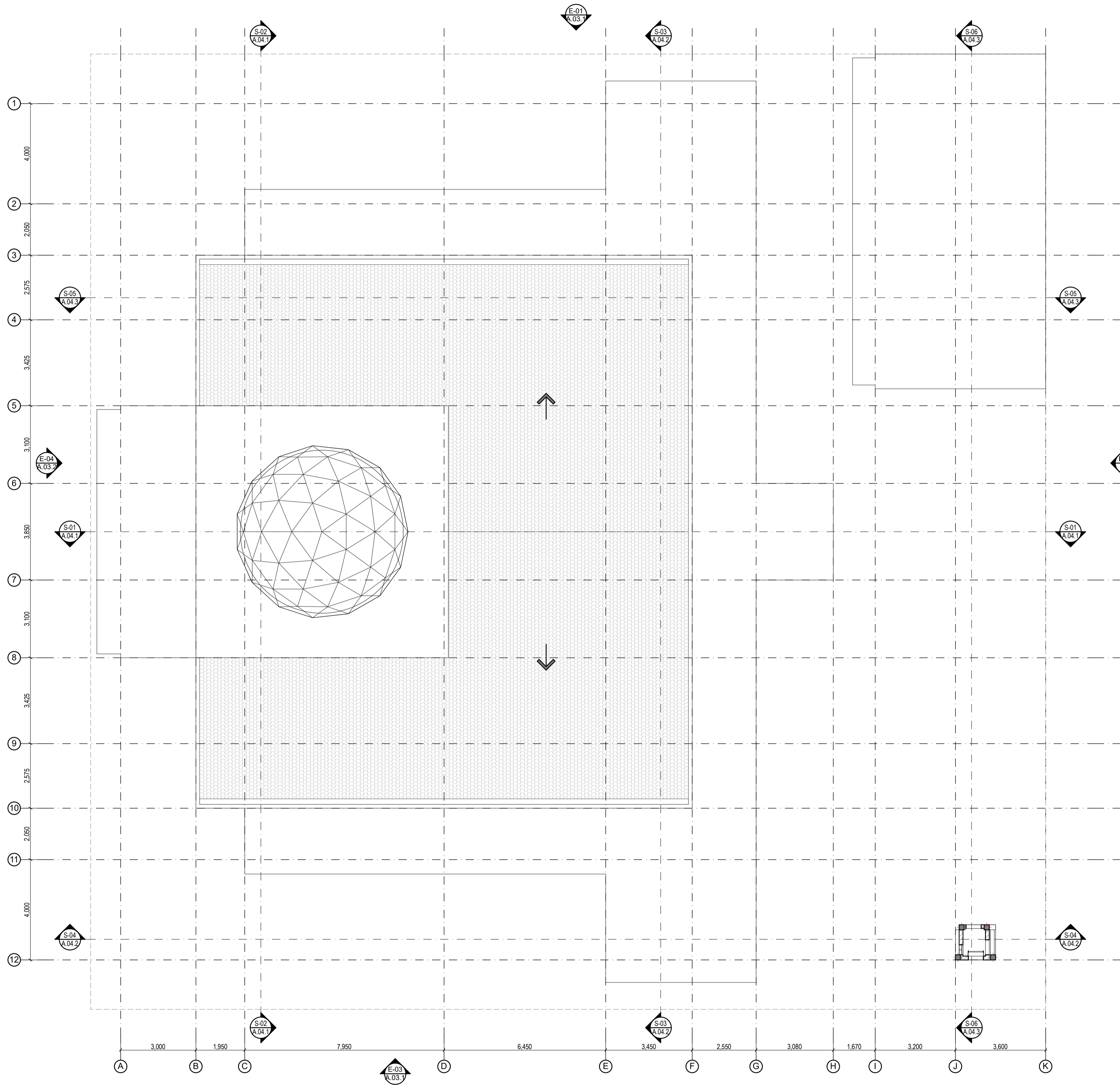
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CLIENT Ministry of Islamic Affairs
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DRAWING TITLES
Roof Level 1
TITLE2
TITLE3
TITLE4
SHEET SIZE A2 SCALE 1:100
SHEET NO. A.02.2


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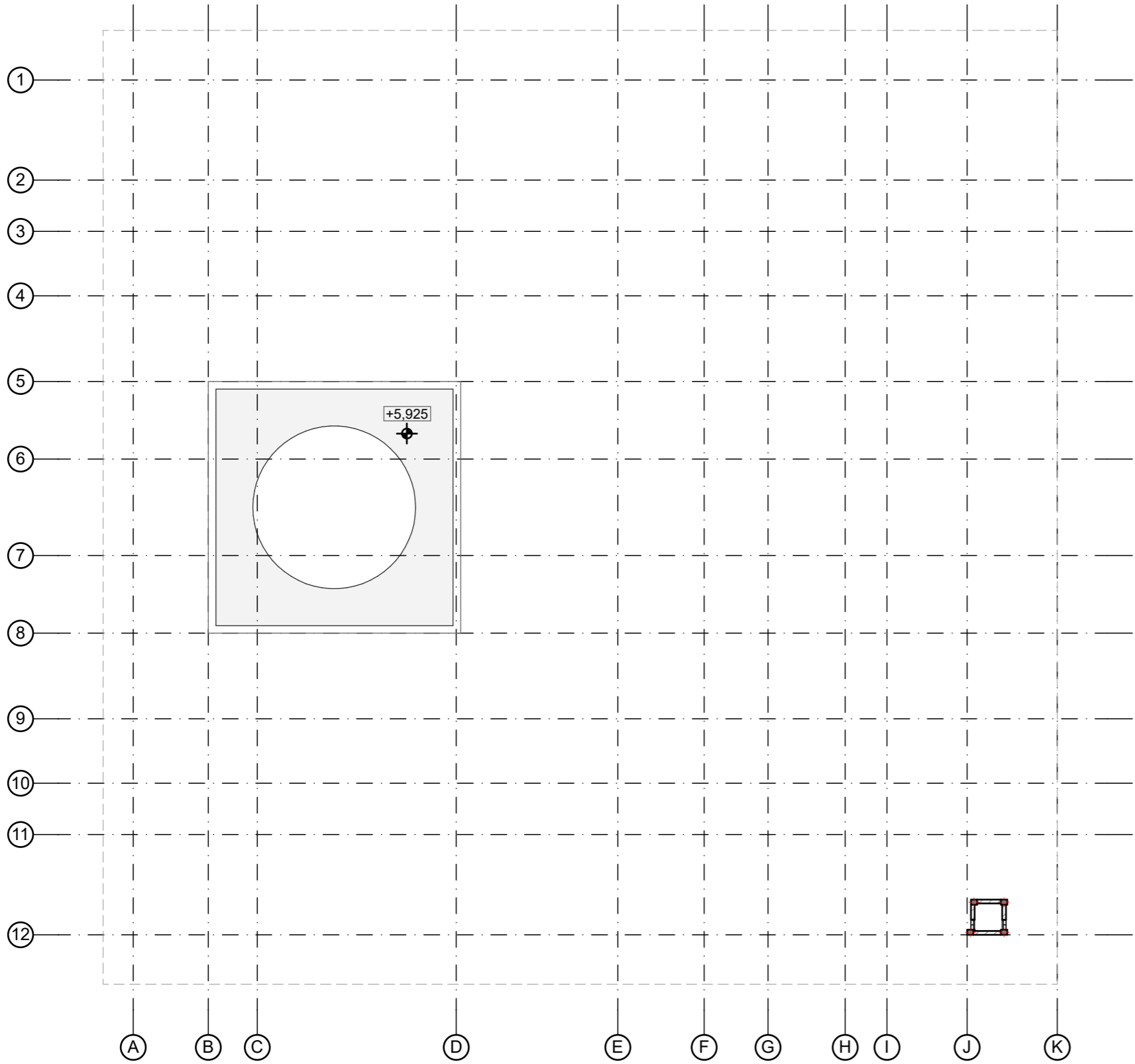


ROOF LEVEL 2
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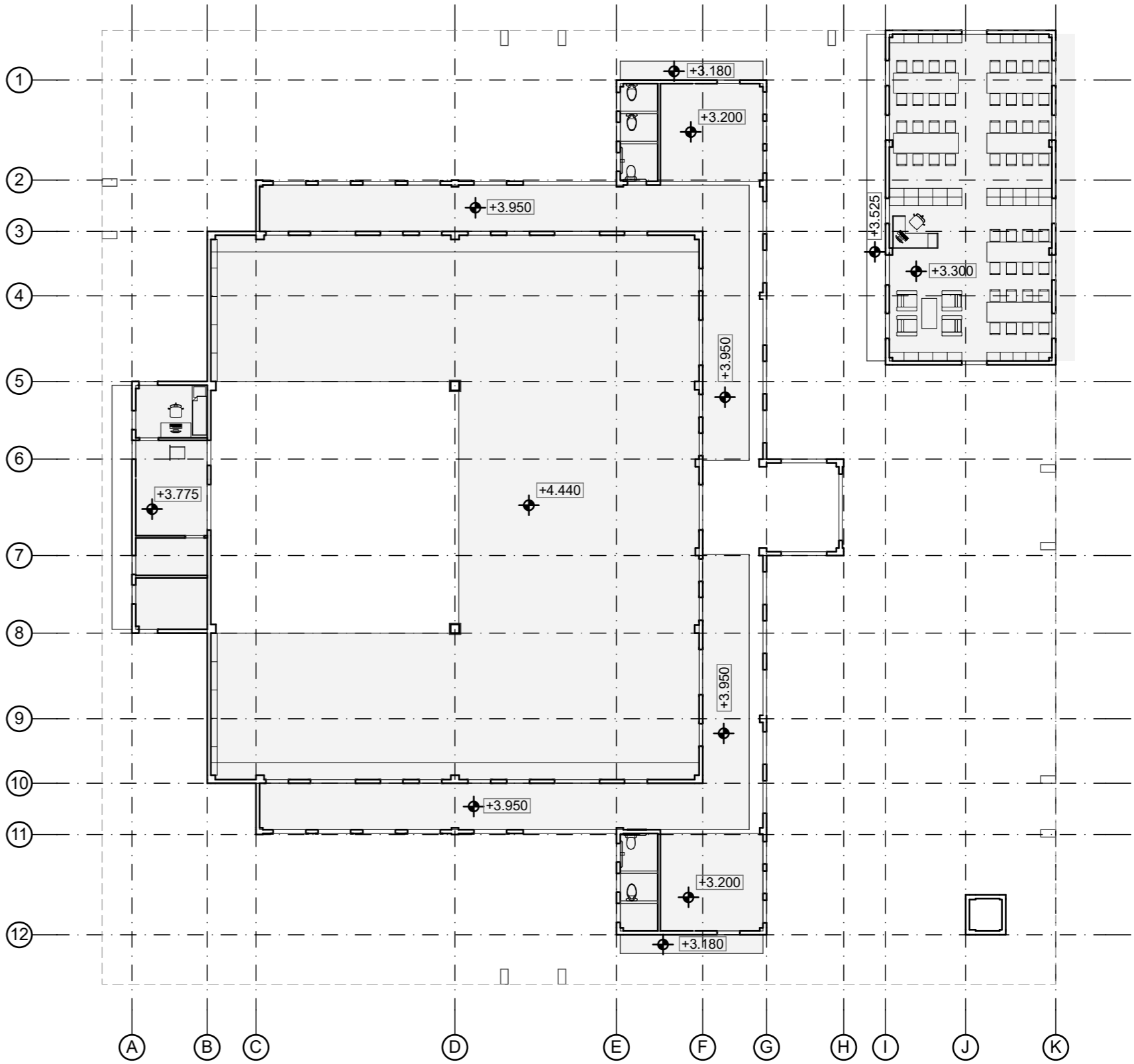
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DRAWING TITLES	
Roof Level 2	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE : A2 SCALE : 1:100	
SHEET NO. : A.02.3	
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REFLECTED CEILING L2
Scale: 1:200



REFLECTED CEILING L1
Scale: 1:200

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CONSULTANT PROJECT NO. R24002MIA	
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PROJECT NAME	
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BUILDING/STRUCTURE NO.	ISSUE DATE
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DRAWING TITLES	
Reflected Ceiling Plan	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	1:200
SHEET NO.	A.02.4

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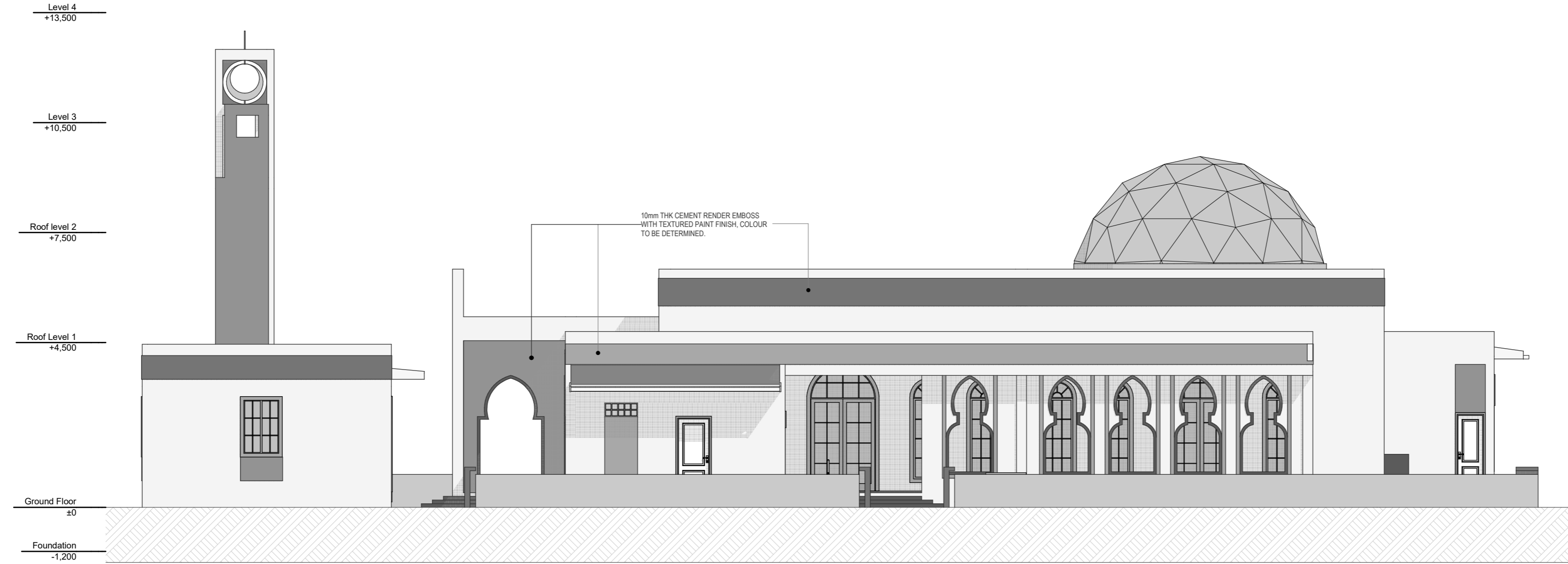
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DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

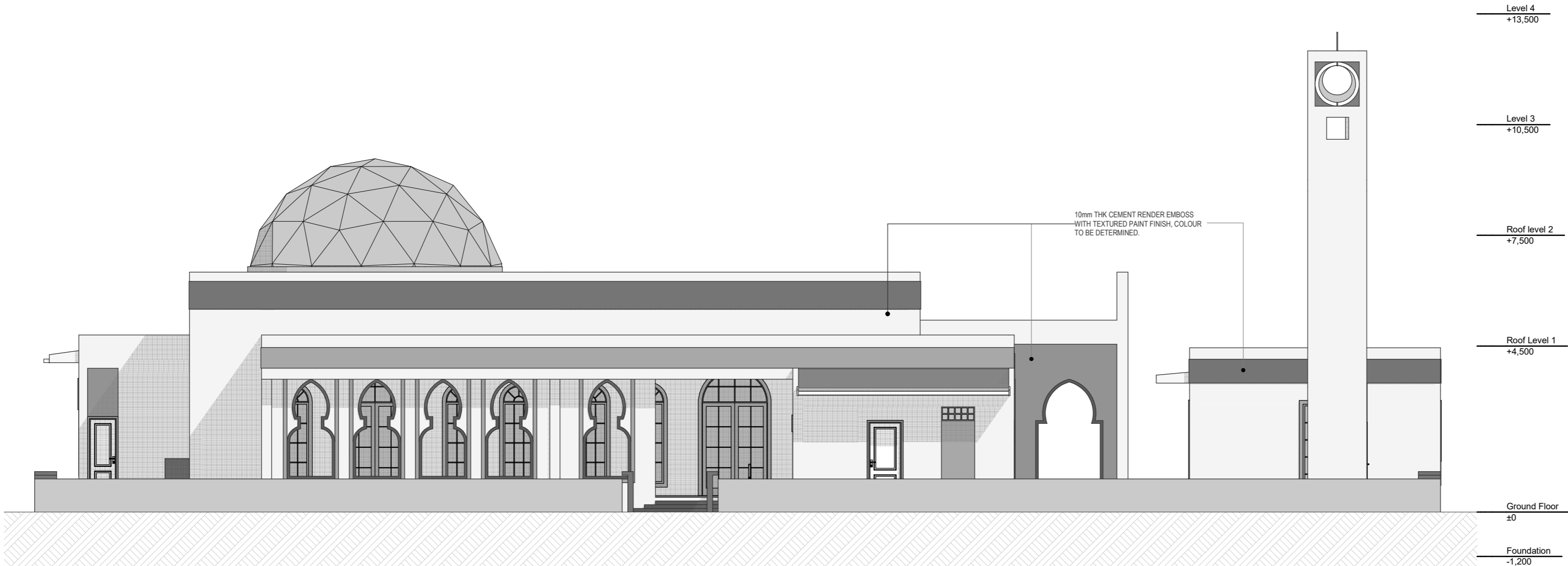
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DRAWING TITLES		
E-01 & E-03 Elevations		
TITLE2		
TITLE3		
TITLE4		
SHEET SIZE	A2	SCALE 1:100
SHEET NO.	A.03.1	

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ELEVATION E-01
Scale: 1:100




ELEVATION E-03
Scale: 1:100

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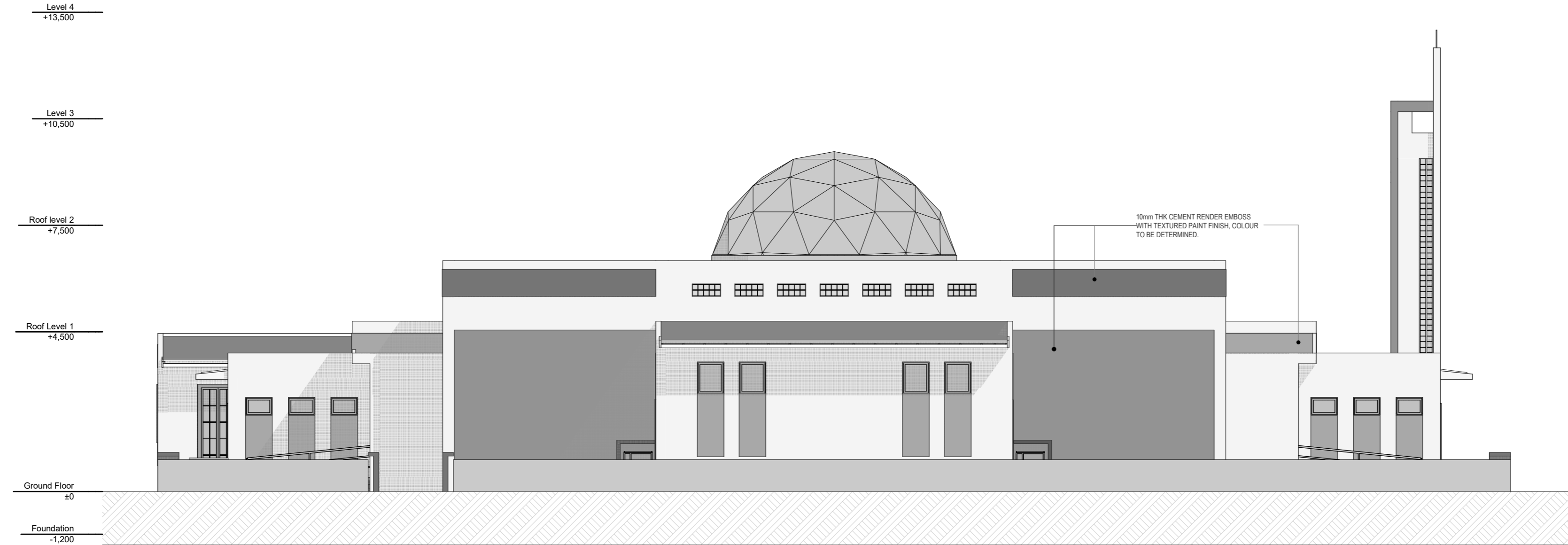
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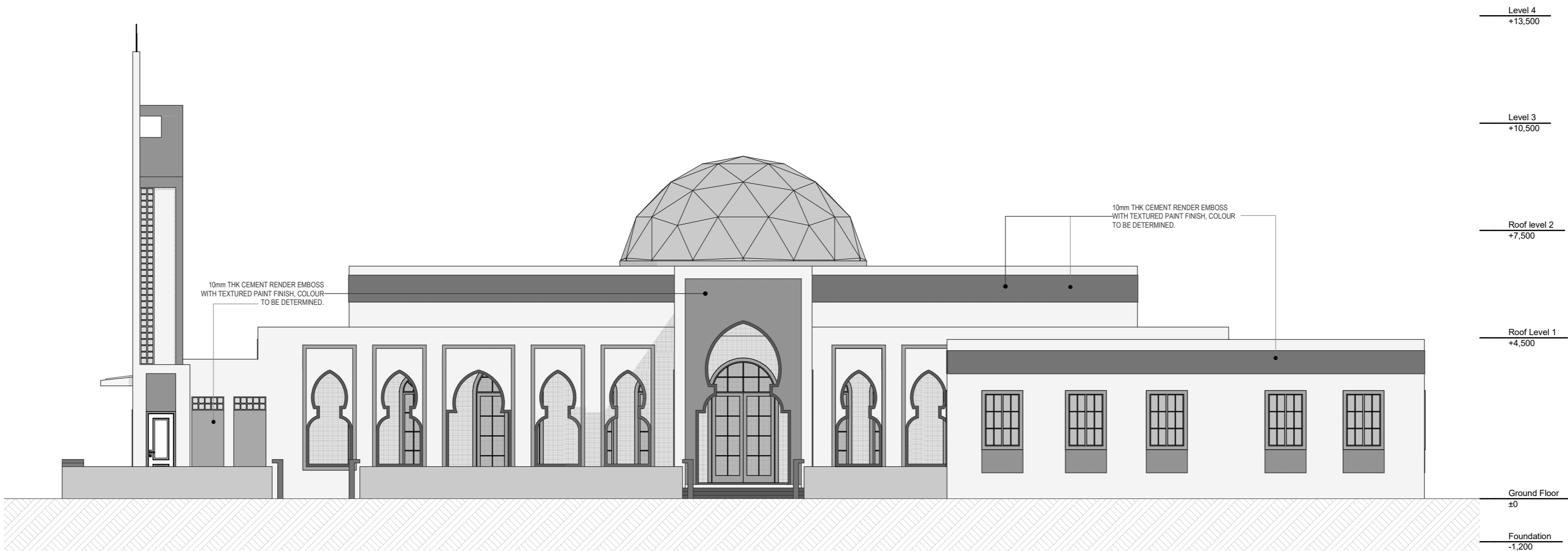
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DRAWING TITLES	
E-02 & E-04 Elevations	
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TITLE3	
TITLE4	
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SCALE	1:100
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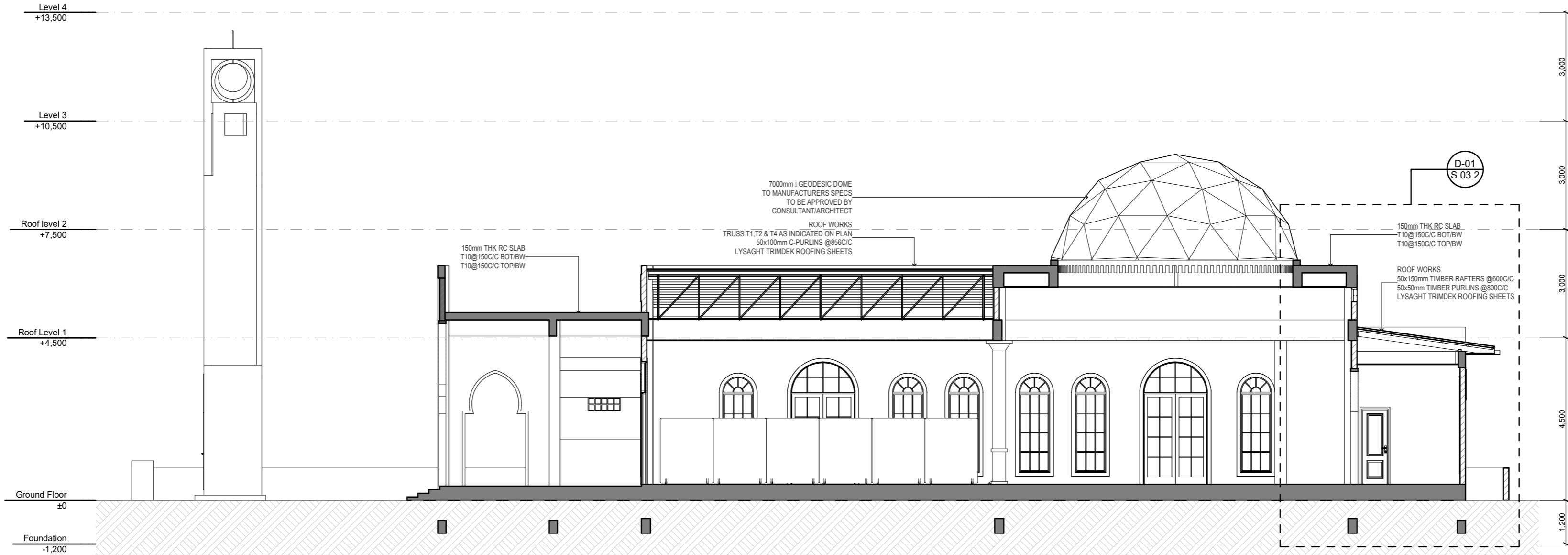
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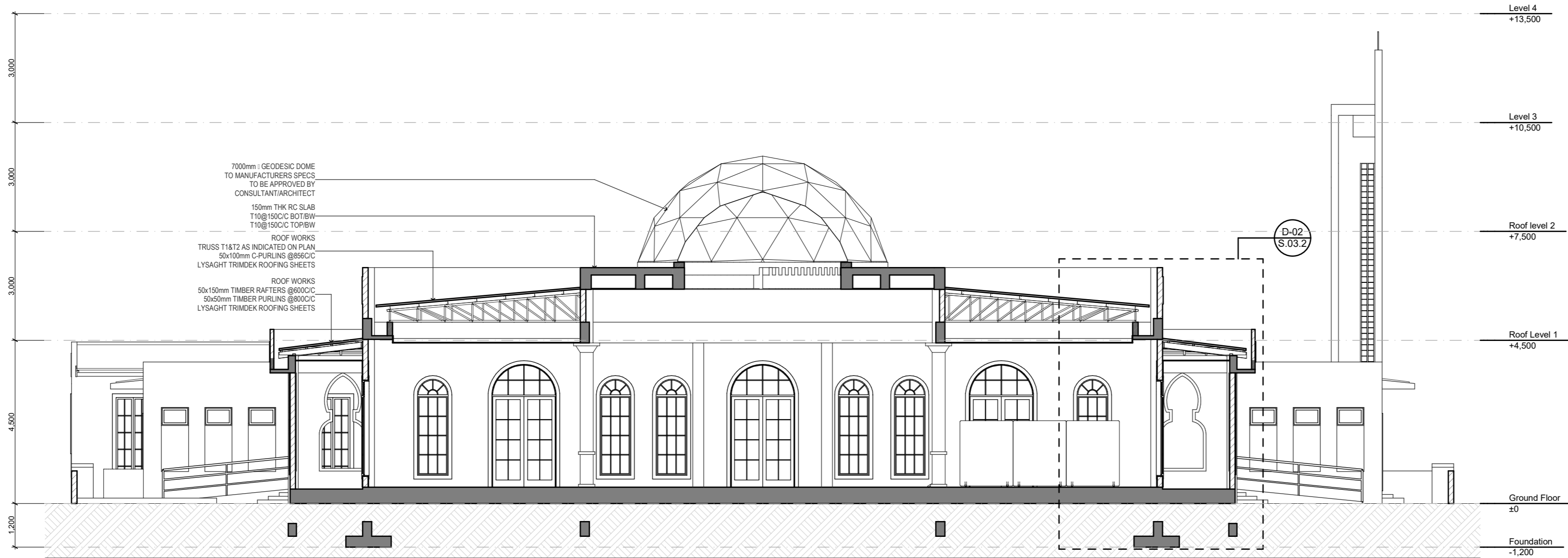
ELEVATION E-04
Scale: 1:100



ELEVATION E-02
Scale: 1:100



SECTION S-01
Scale: 1:100



SECTION S-02
Scale: 1:100

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CLIENT Ministry of Islamic Affairs

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DRAWING TITLES

S-01 & S-02 Building Section

TITLE2

TITLE3

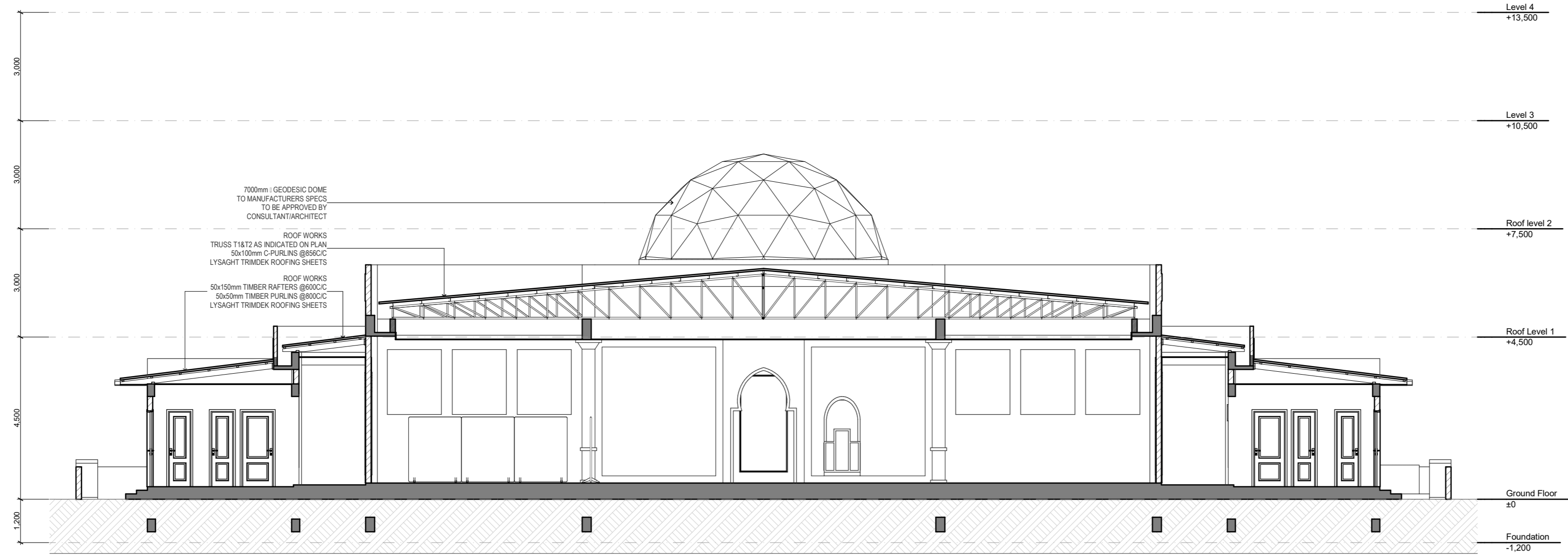
TITLE4

SHEET SIZE A2 SCALE 1:100

SHEET NO.

A.04.1

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SECTION S-03
Scale: 1:100



SECTION S-04
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INFRA DESIGNER Infra. Designer

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DRAWING TITLES

S-03 & S-04 Building Section

TITLE2

TITLE3

TITLE4

SHEET SIZE A2

SCALE 1:100

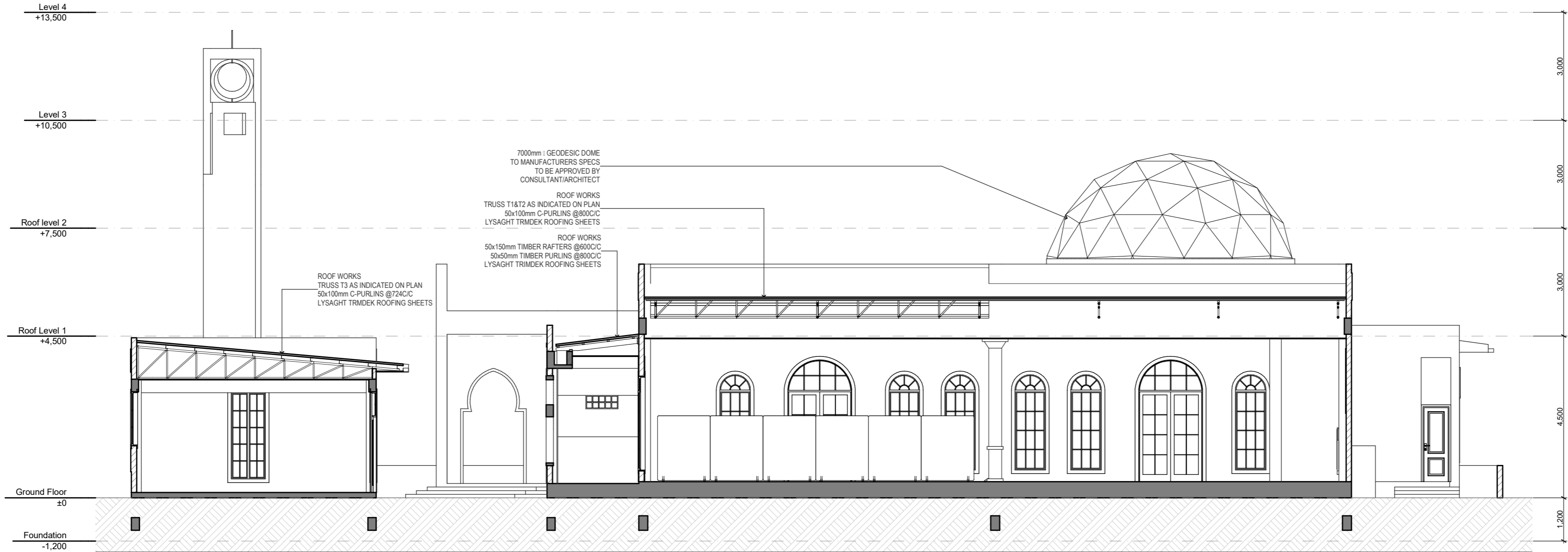
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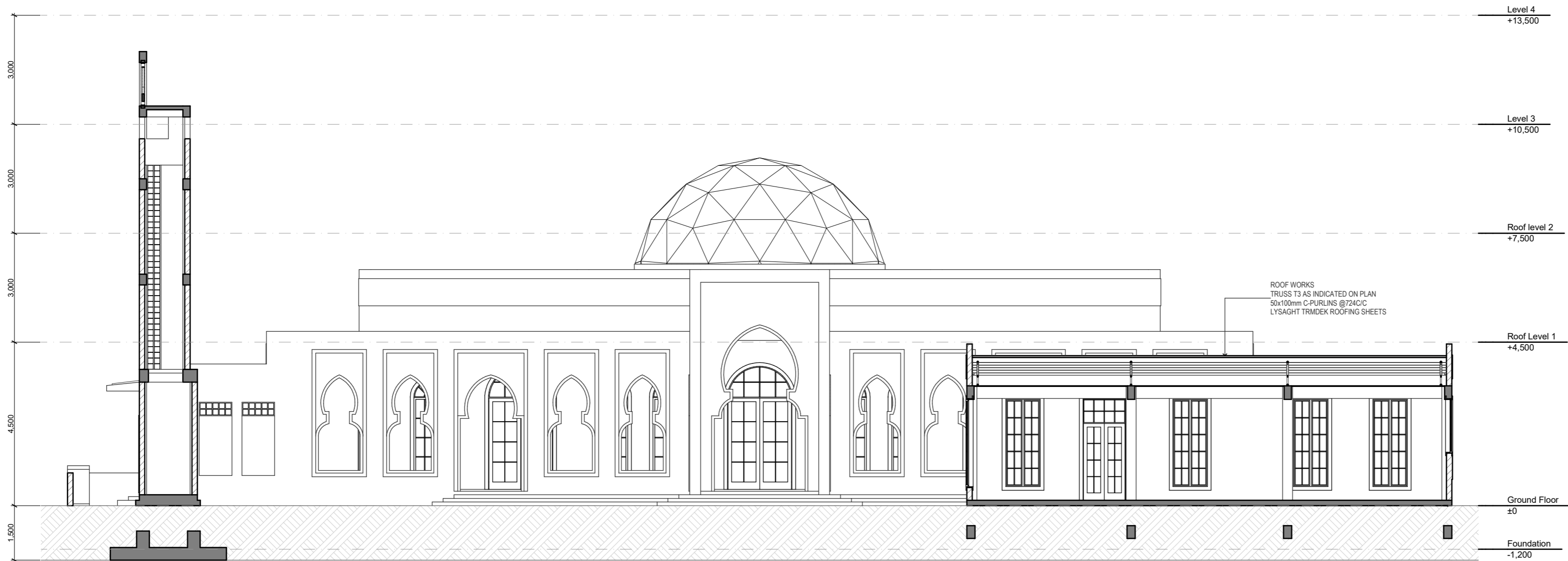
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SECTION S-05
Scale: 1:100



SECTION S-06
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DRAWING TITLES

S-05 & S-06 Building Section

TITLE2

TITLE3

TITLE4

SHEET SIZE A2 SCALE 1:100

SHEET NO.

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.

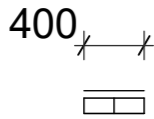
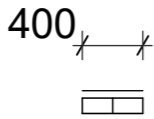

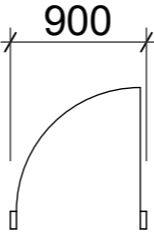


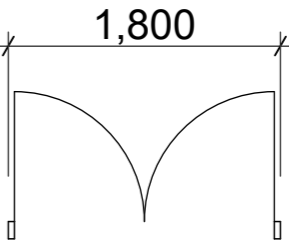
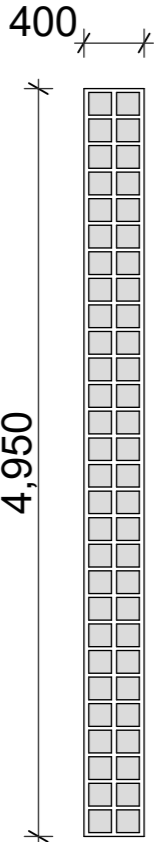
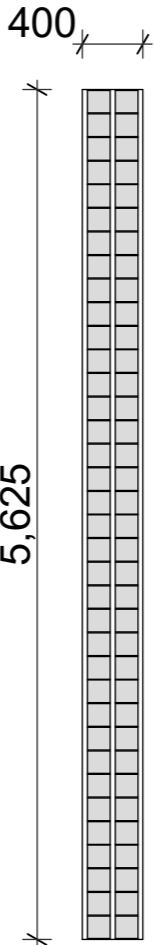
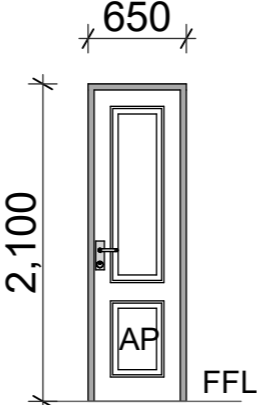
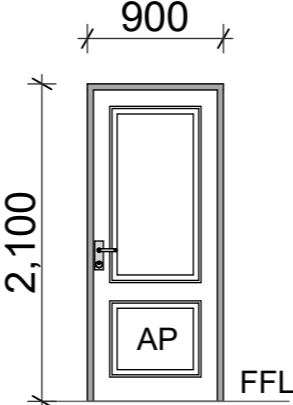
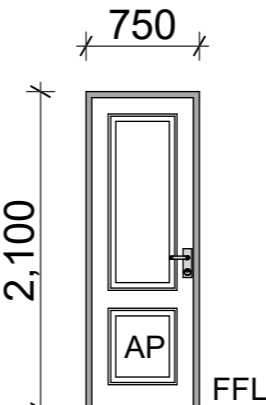
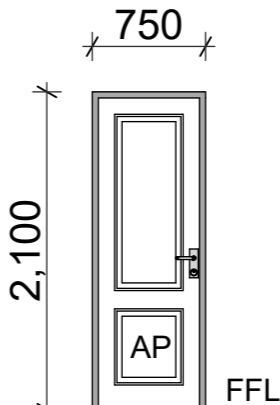
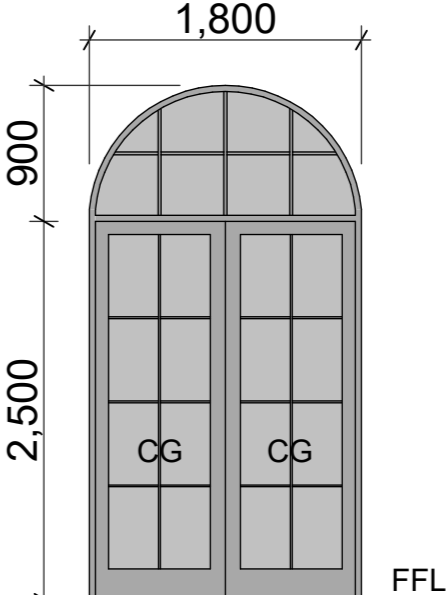
GENERAL NOTES

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
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

	
RYAN PRIVATE LIMITED	
www.ryan.com.pk	
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

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
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
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.05.3	

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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

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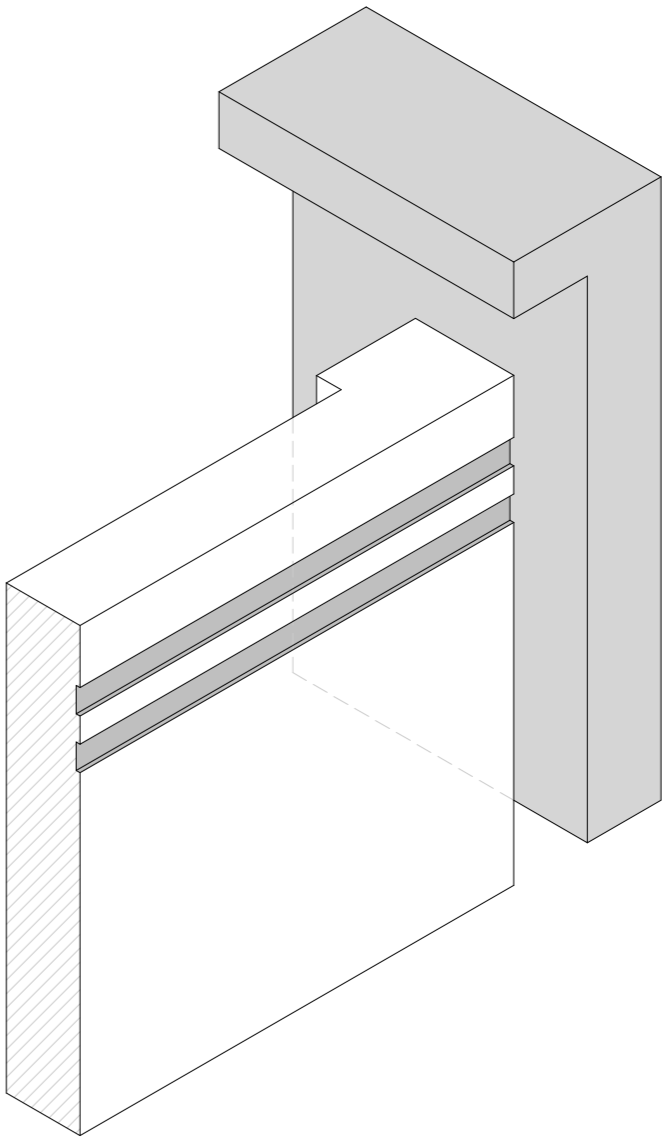
ARCHES DETAILS

Scale: 1:40



INFRASTRUCTURE DESIGN	
LANDSCAPE DESIGN	
REGISTERED LOCAL CONSULTANT	
<div><p>RIYAN PRIVATE LIMITED www.riyan.com.my</p><p>CONSULTANT PROJECT NO. R2402DMA</p><p>ARCHITECT Umar Rashid</p><p>R.T. DESIGNER #Rt. Designer</p><p>CIVIL ENGINEER Mohamed Muththalib Waleed</p><p>MEP ENGINEER M.K.B. C.D.P. N.K.P. M.E.I</p><p>INFRA. DESIGNER #Infra. Designer</p><p>DRAWN BY IR</p><p>CHECKED BY Maryam Inaba Sharief</p><p>APPROVED BY</p></div>	
PROJECT NAME	
Prototype Mosques	
CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	
latitude N, long. E	
ISSUED FOR	
DD - DETAILED 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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ISOMETRIC VIEW



BOUNDARY WALL DETAILS

Scale: 1:20

[illegible]

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INFRASTRUCTURE DESIGN
LANDSCAPE DESIGN
REGISTERED LOCAL CONSULTANT



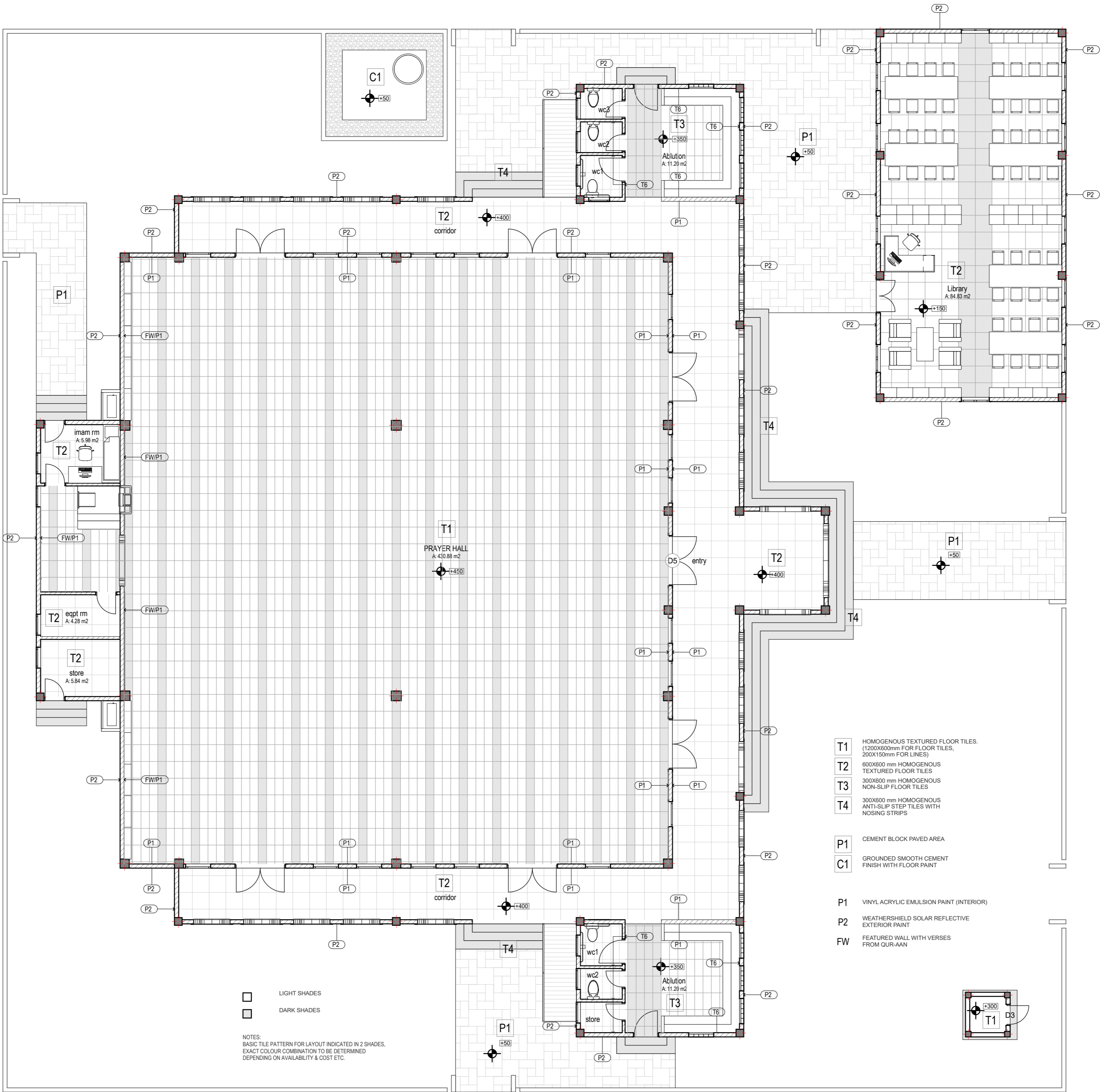
<p align="center">RIYAN PRIVATE LIMITED www.riyan.com.mv</p>	
<p>CONSULTANT PROJECT NO. R24002MIA</p>	
ARCHITECT	Ismail Rasheed
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muththalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	IR
CHECKED BY	Mariyam Irasha 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		
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



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	Imam Rashid
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	
Material Finishes	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	1:100
SHEET NO.	A.06.3

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STEPS AND RAMP DETAILS

Scale: 1:25



ABLUTION AREA DETAILS

Scale: 1:15



ABLUTION AREA

Scale: 1:50

[illegible]

CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT

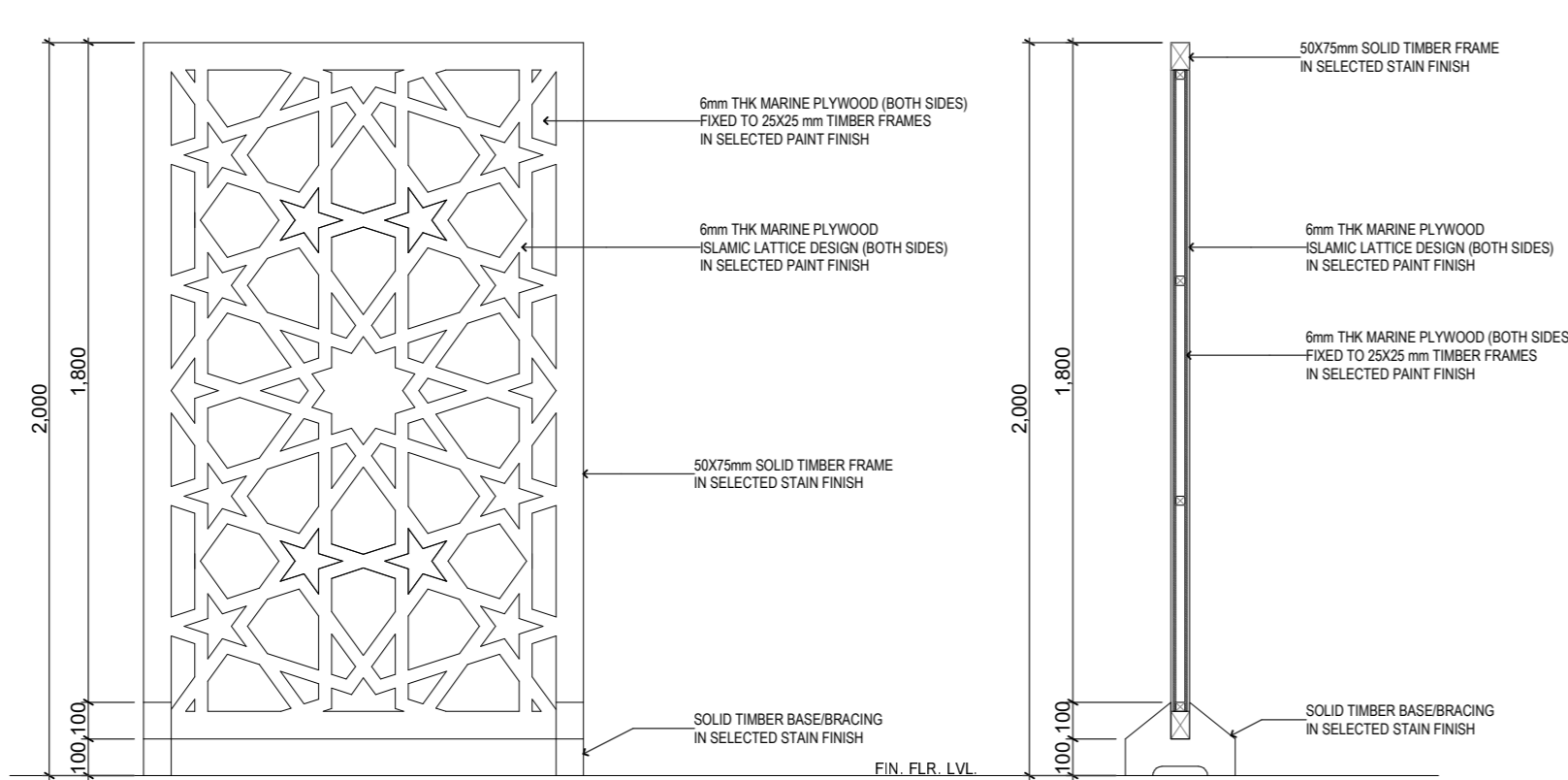


<p align="center">RIYAN PRIVATE LIMITED www.riyan.com.mv</p>	
<p>CONSULTANT PROJECT NO. R24002MIA</p>	
ARCHITECT	Ismail Rasheed
INT. DESIGNER	#Int. Designer
CIVIL ENGINEER	Mohamed Muththalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	IR
CHECKED BY	Mariyam Irasha Shareef
APPROVED BY	

PROJECT NAME	
Prototype Mosques	
CLIENT	Ministry of Islamic Affairs
DEVELOPER	
ATOLL	
ISLAND	
LOCATION (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

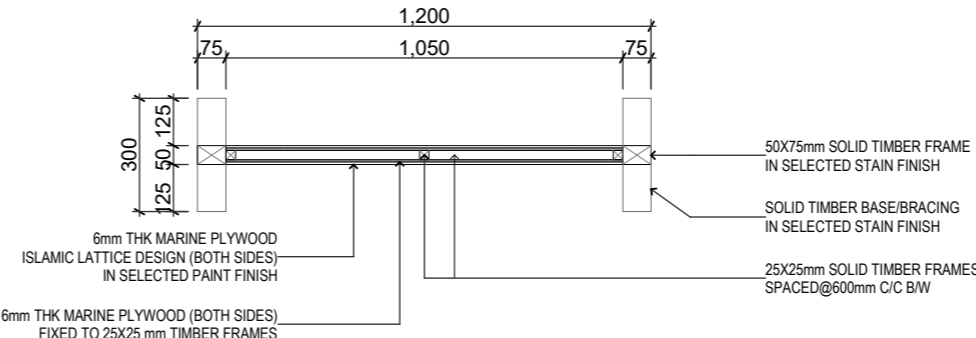
DRAWING TITLES		
Ablution Area & Details		
TITLE2		
TITLE3		
TITLE4		
SHEET SIZE	A2	SCALE 1:25, 1:50, 1:15
SHEET NO.		
A.06.4		

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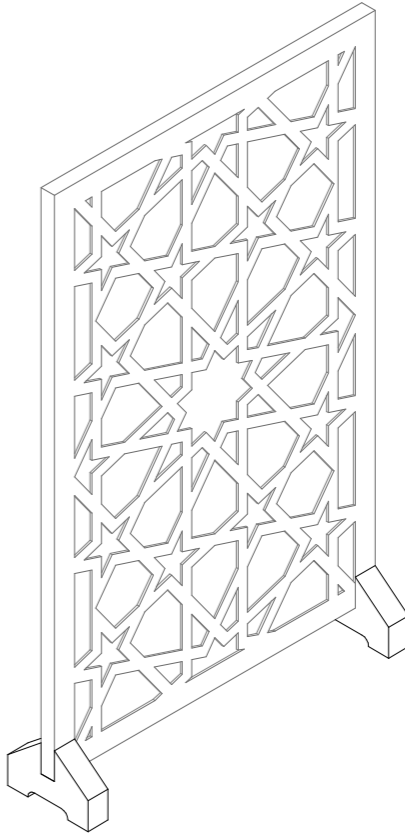


ELEVATION

SECTION



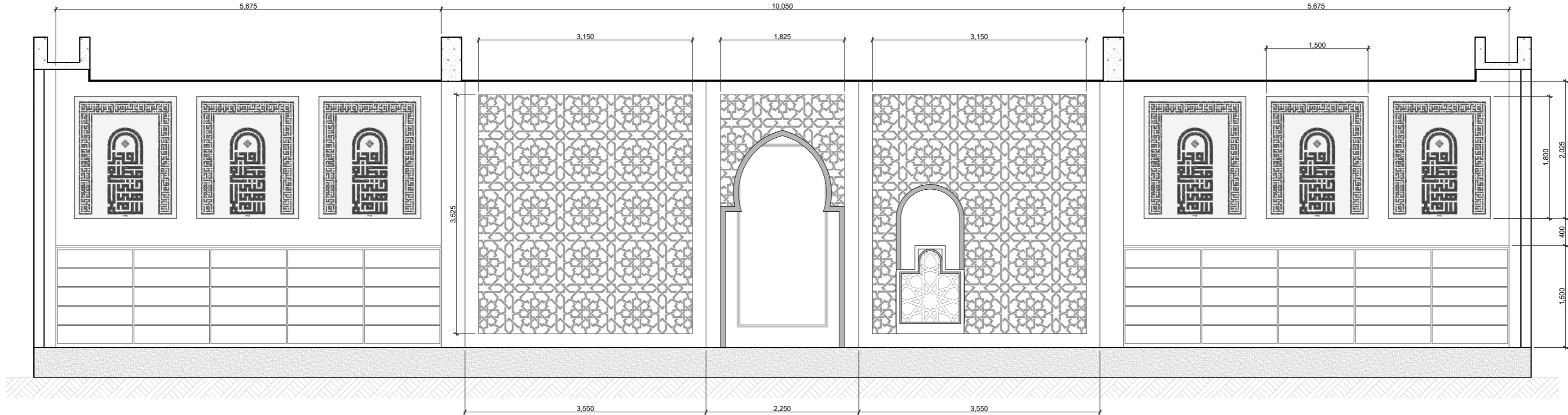
PLAN



ISOMETRIC VIEW

MOVABLE PRIVACY PARTITION DETAIL

Scale: 1:20



ELEVATION

FEATURED BACK WALL

Scale: 1:50

GENERAL NOTES

REVISIONS

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

REGISTERED LOCAL CONSULTANT



RYAN PRIVATE LIMITED

www.ryanprivate.com

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

Feature Details

TITLE2

TITLE3

TITLE4

SHEET SIZE A2 SCALE 1:20, 1:50

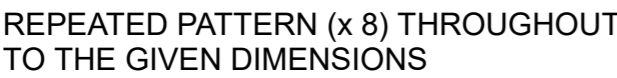
SHEET NO.

A.06.5

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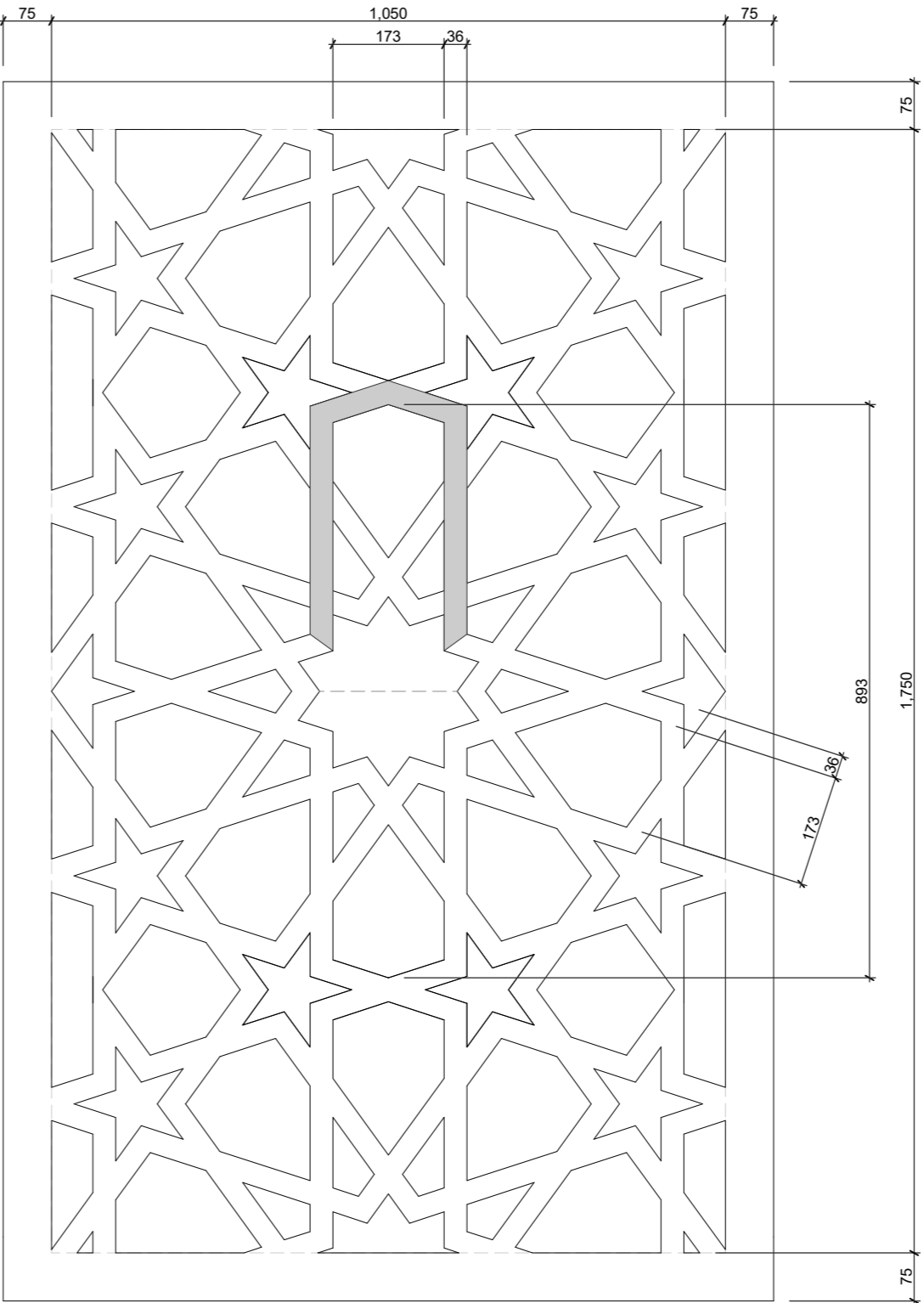
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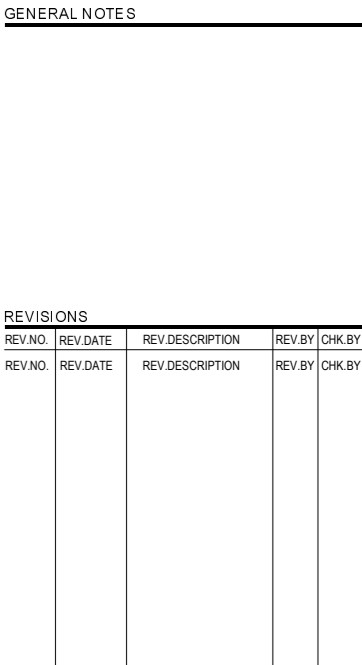
GEOMETRIC PATTERN DETAILS

Scale: 1:10



REPEATED PATTERN (x10) THROUGHOUT
TO THE GIVEN DIMENSIONS

PATTERN DESIGN FOR PARTITION SCREEN

[illegible]

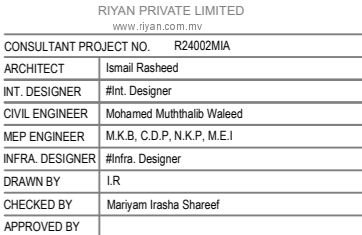
CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



PROJECT NAME
Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

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DD - DETAIL DESIGN

BUILDING NAME

Mosque for 700 pax

BUILDING/STRUCTURE NO. 11/6/2023

DRAWING TITLE: _____

Geometric Patterns

TITLE 50

TITL2
TITL50

TITLE 3
TITLE 4

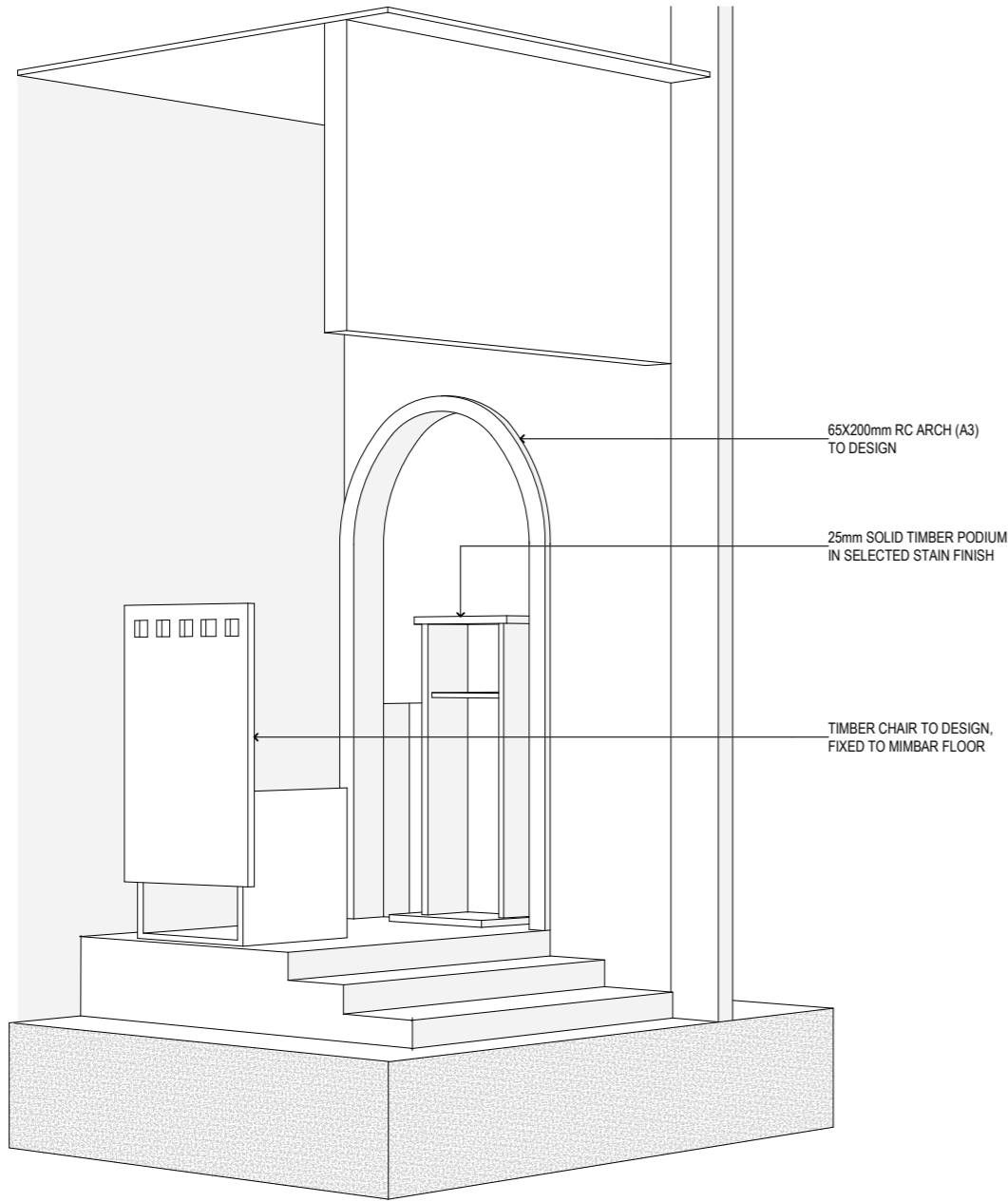
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SHEET SIZE	A2	SCALE	1:10
SHEET NO.			

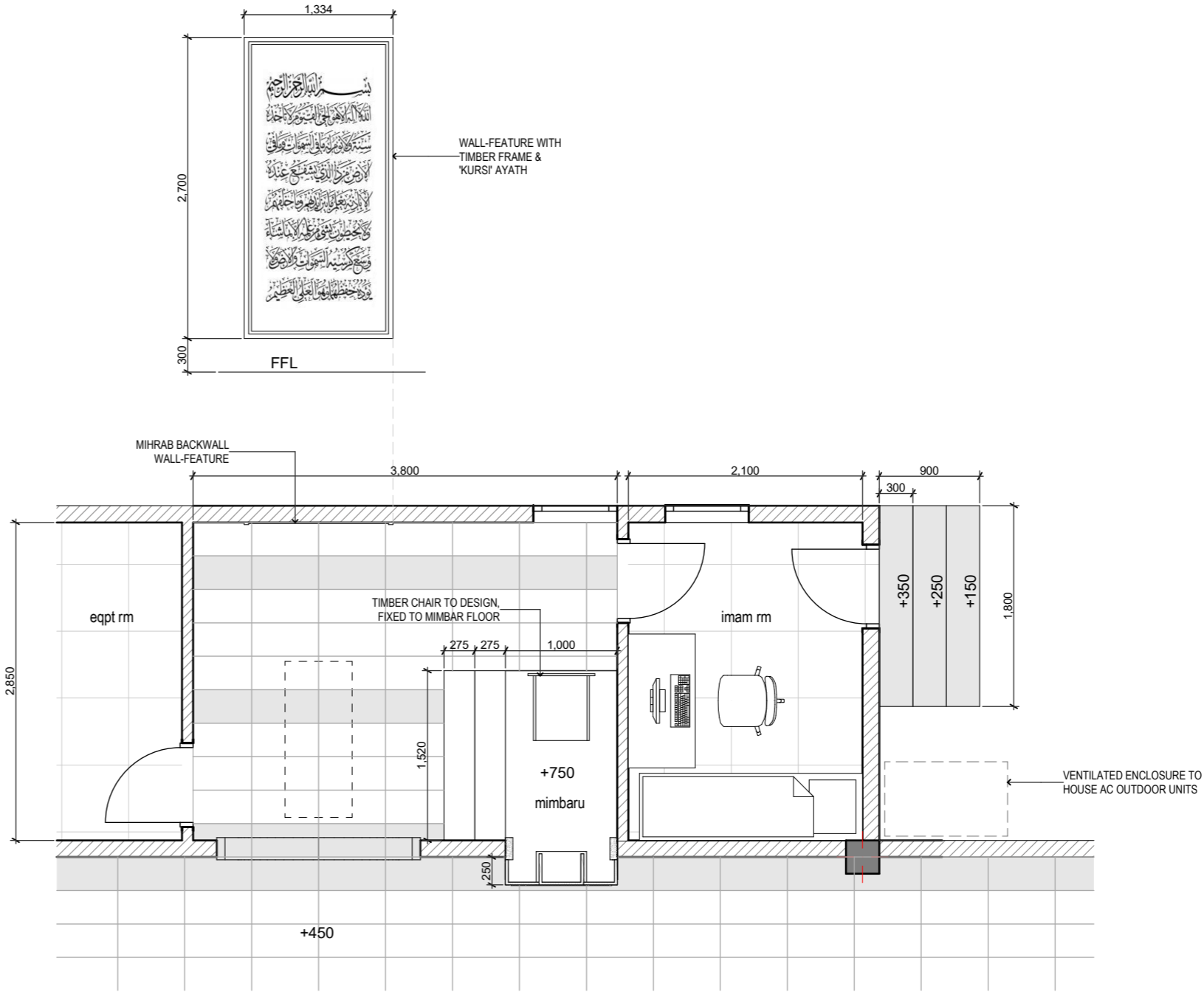
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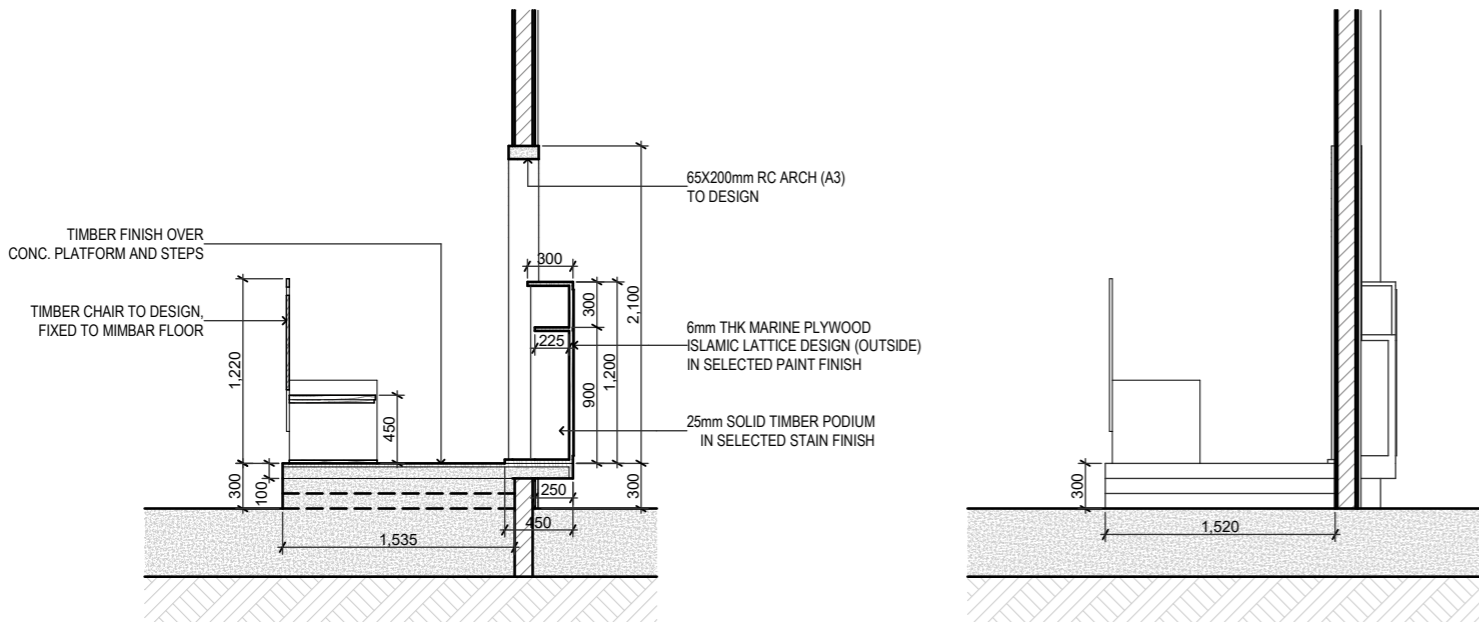
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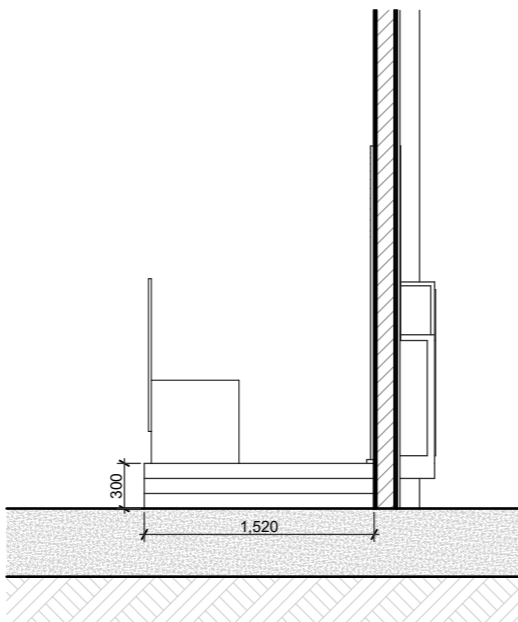
ISOMETRIC VIEW



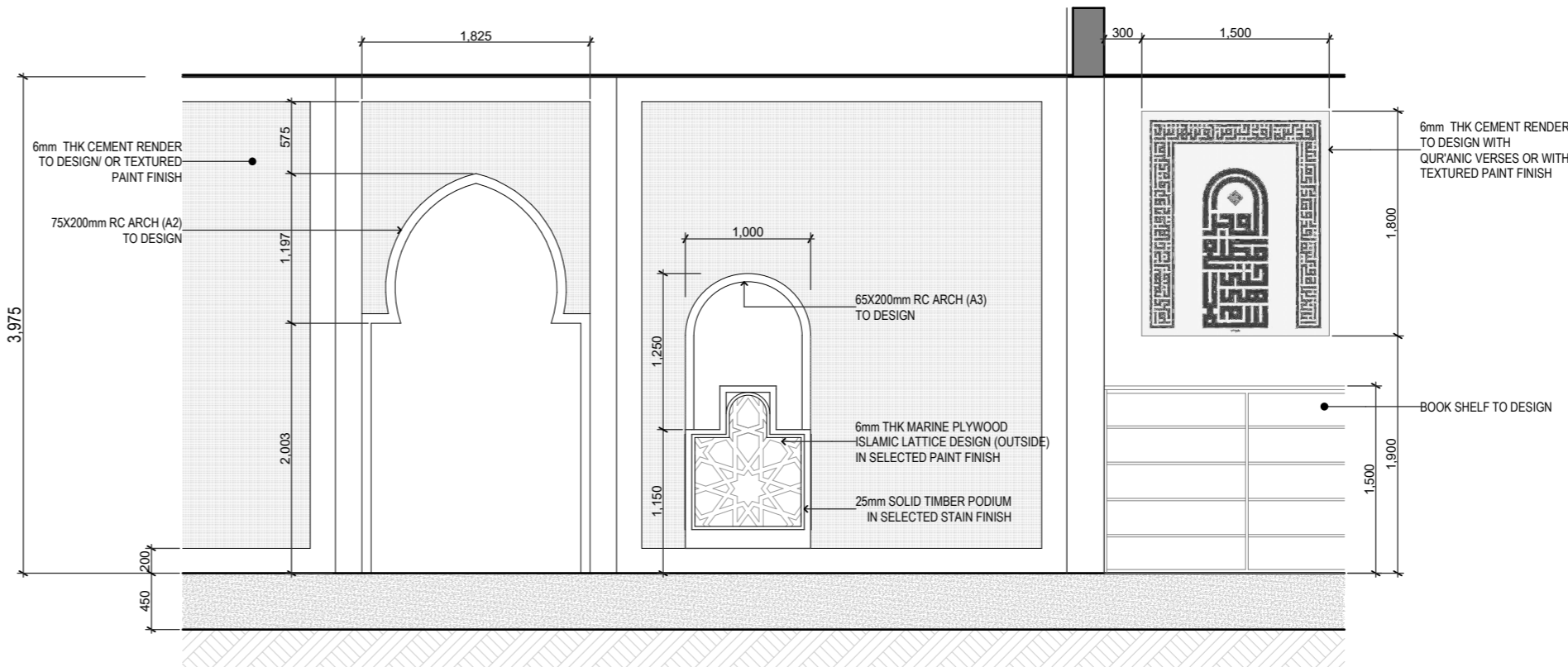
PLAN



SECTION



SECTION



ELEVATION

MIHRAB & IMAM ROOM AREA

Scale: 1:50

GENERAL NOTES

REVISIONS

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

CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

www.riyan.com.om

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

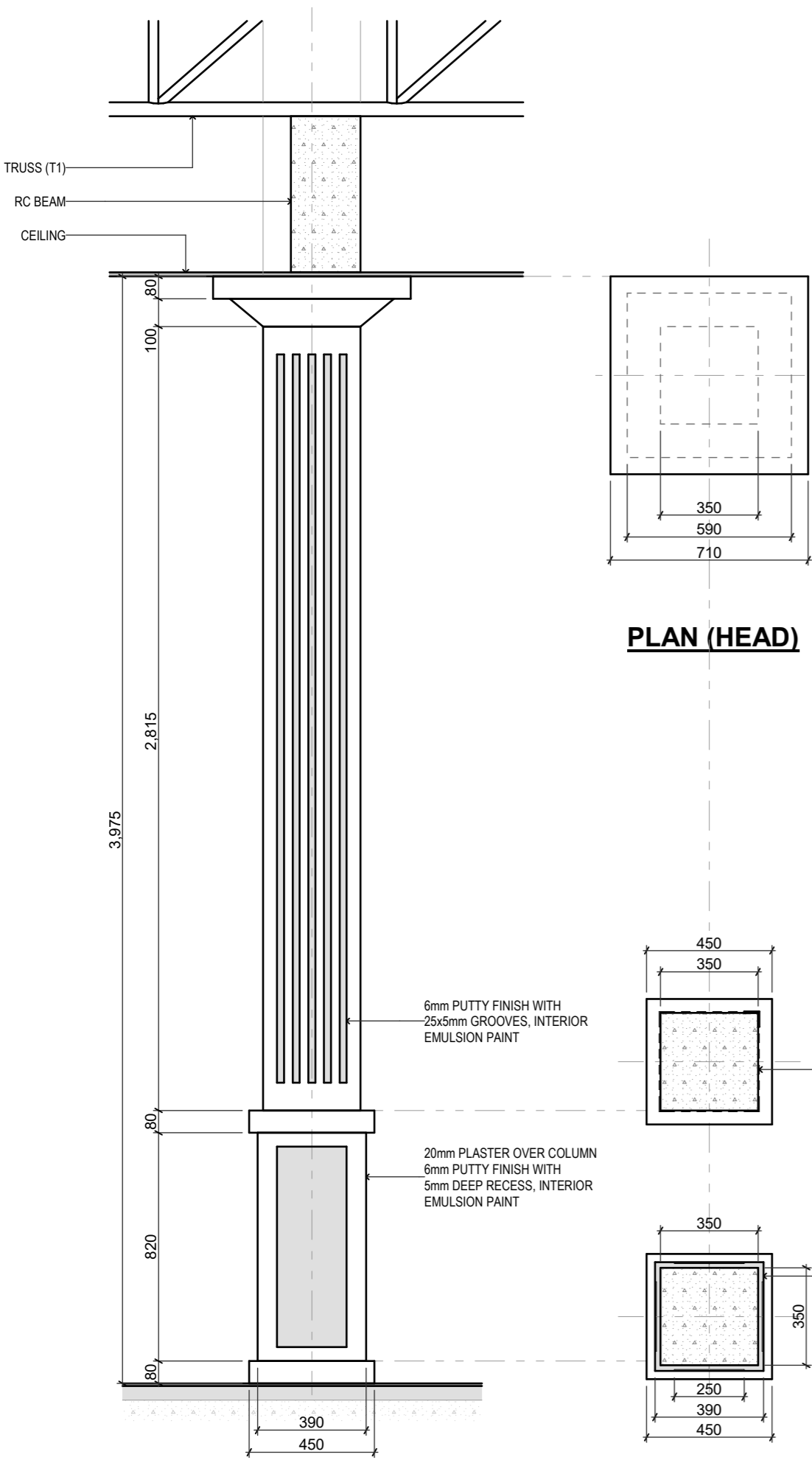
SHEET SIZE A2

SCALE 1:50

SHEET NO.

A.06.7

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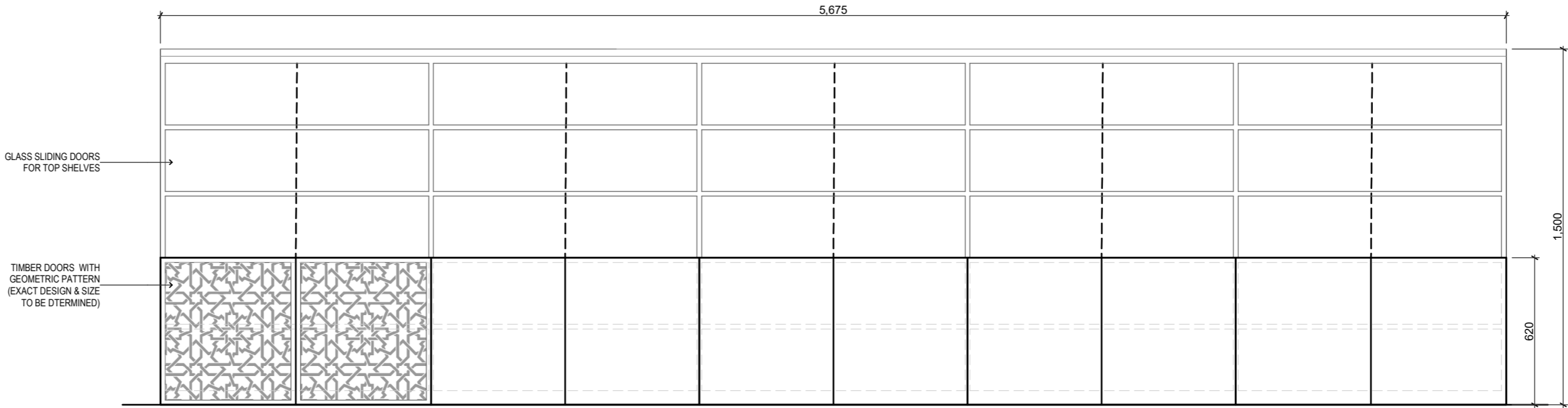


PLAN (HEAD)

PLAN (BASE)

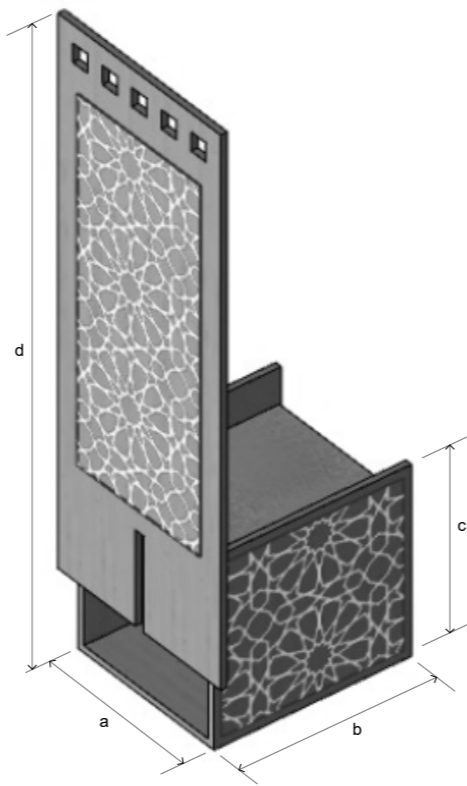
ELEVATION

DECORATIVE INTERIOR COLUMN
Scale: 1:25



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

CONSULTANTS

LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



RYAN PRIVATE LIMITED
www.ryan.com.pk

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

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

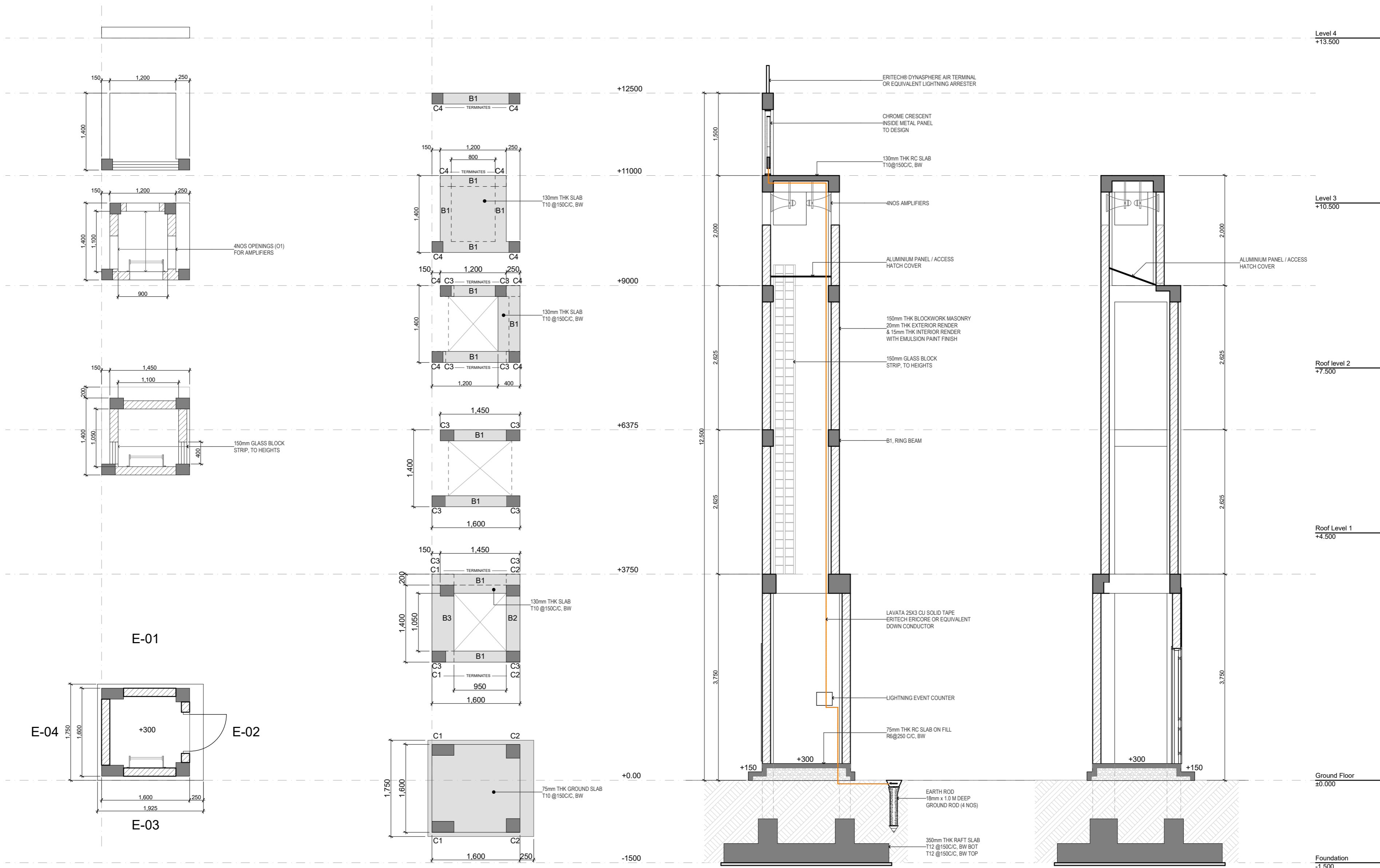
TITLE4

SHEET SIZE	A2	SCALE	1:20
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SHEET NO.

A.06.8

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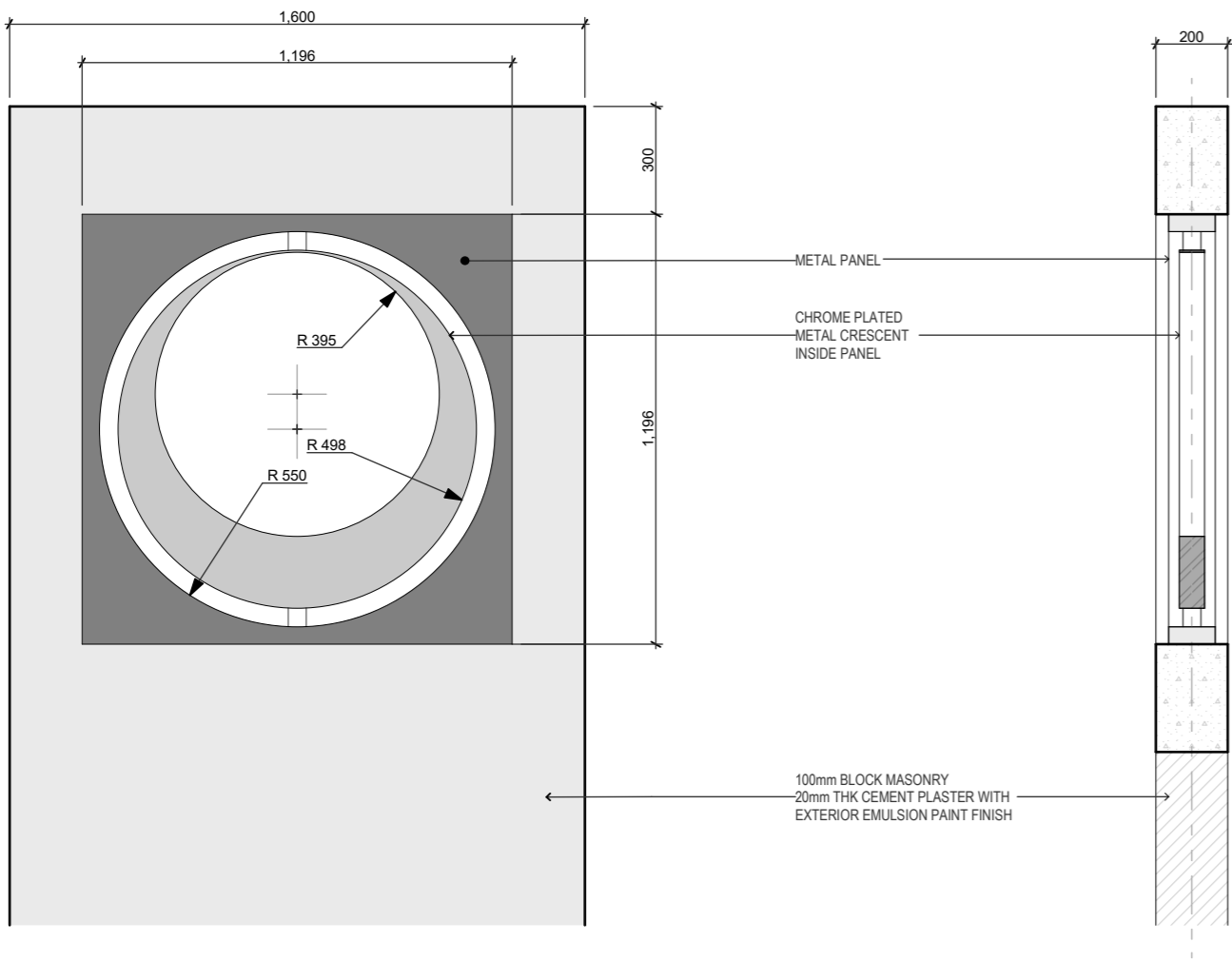
REVISIONS				
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Mosque for 700 pax	
BUILDING/STRUCTURE NO.	
ISSUE DATE	
11/6/2024	
DRAWING TITLES	
Minaret Details	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	
A2	
SCALE	
1:50	
SHEET NO.	
A.07.1	

PROJECT NAME	
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BUILDING/STRUCTURE NO.	
ISSUE DATE	
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Minaret Details	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	
A2	
SCALE	
1:50	
SHEET NO.	
A.07.1	

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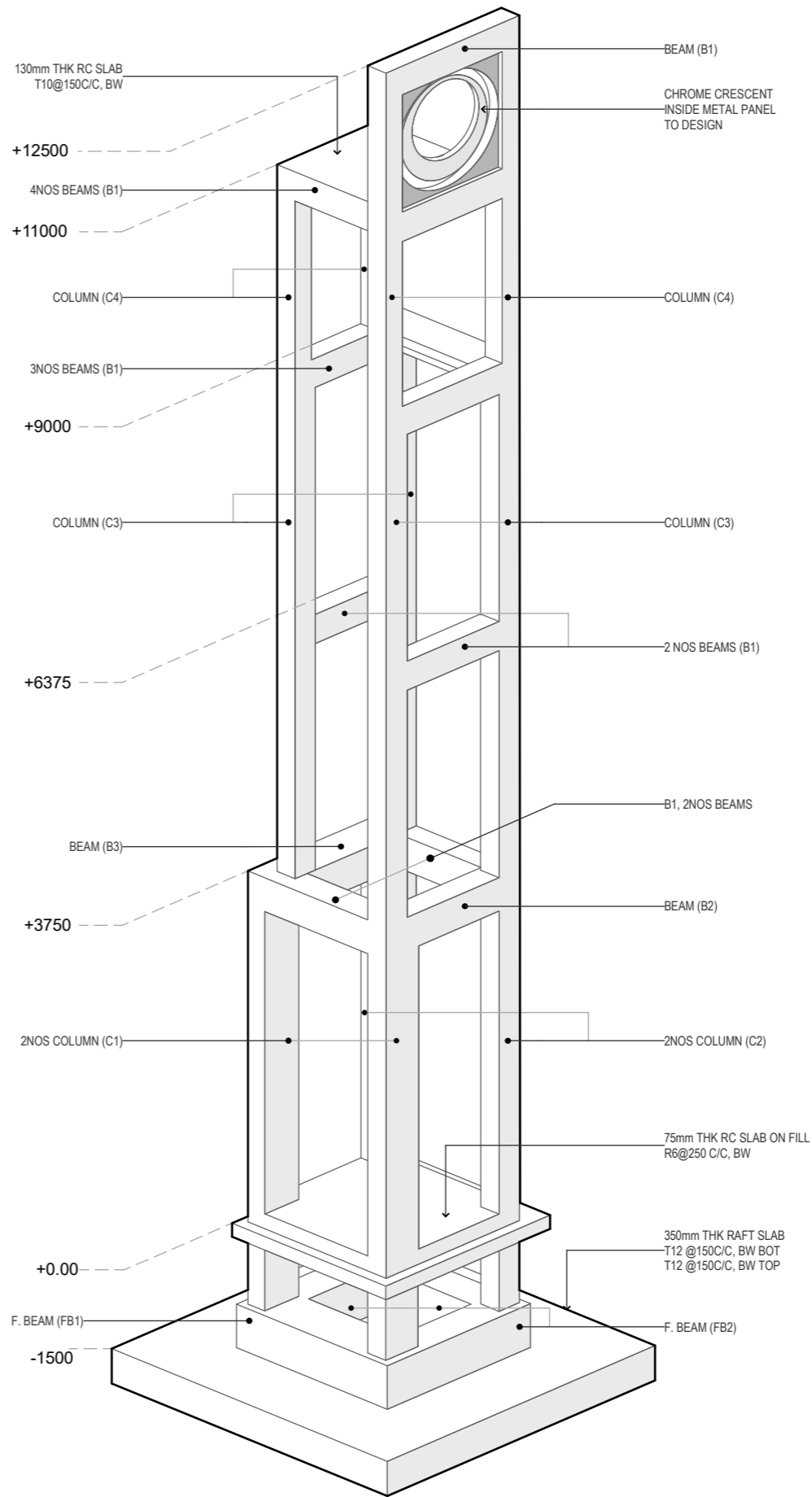
CRESCENT FEATURE DETAILS

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

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LEAD CONSULTANT

INFRASTRUCTURE DESIGN

LANDSCAPE DESIGN

REGISTERED LOCAL CONSULTANT



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CONSULTANT PROJECT NO.	R24002MIA
ARCHITECT	Ismail Rashheed
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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

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DRAWING TITLES

Minaret Details

TITLE2

TITLE3

TITLE4

SHEET SIZE	A2	SCALE	1:20
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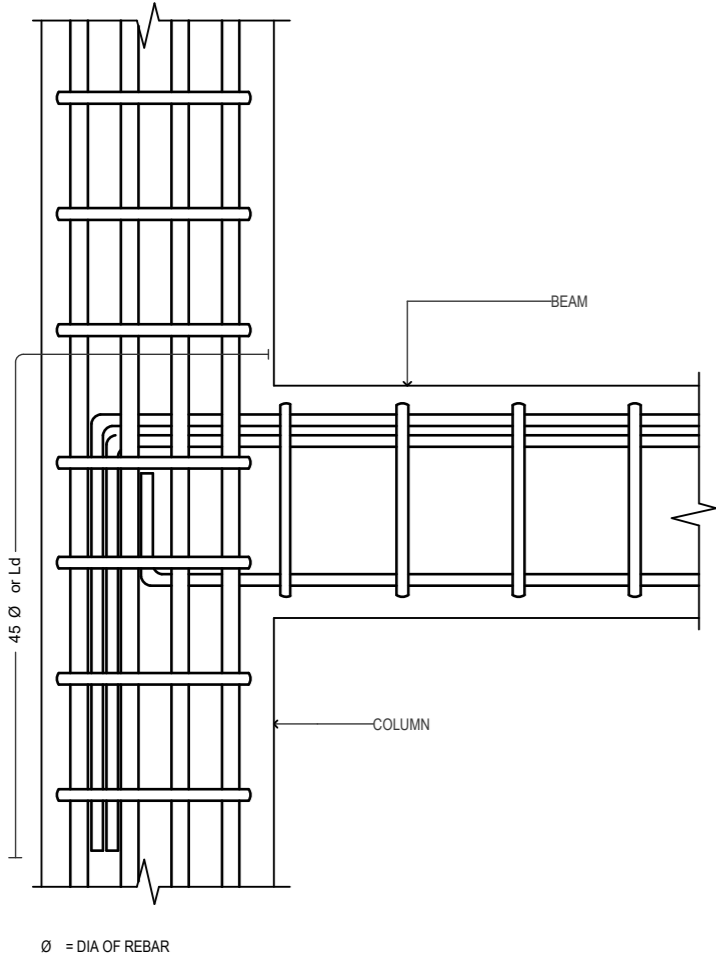
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A.07.3

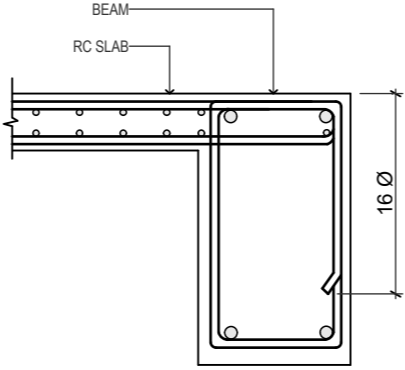
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18.0 SPACER BARS

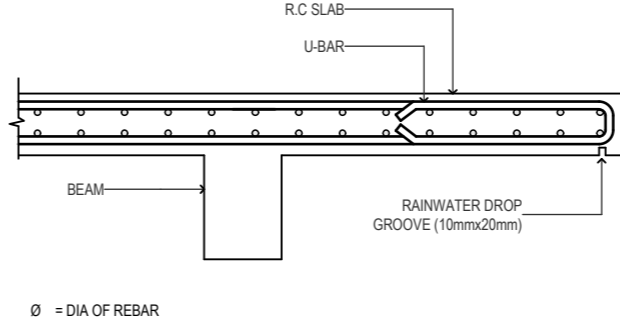
*ALL SPACER BARS BETWEEN 2 OR MORE LAYERS OF REINFORCEMENT SHALL T25 OR BAR DIAMETER (WHICHEVER IS GREATER) AT ±1.5M C/C.



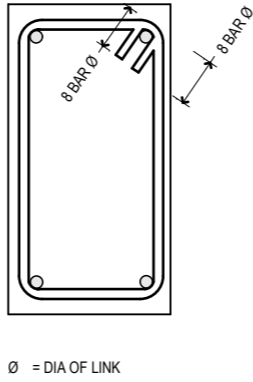
BEAM TO COLUMN CONNECTION



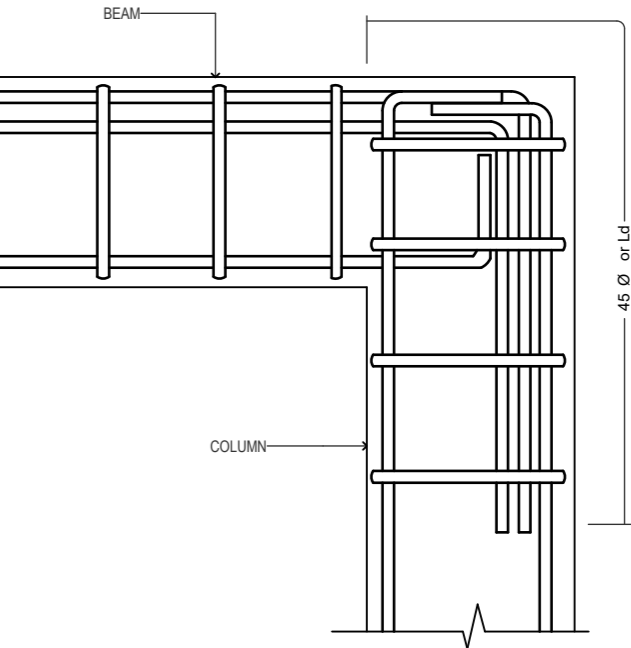
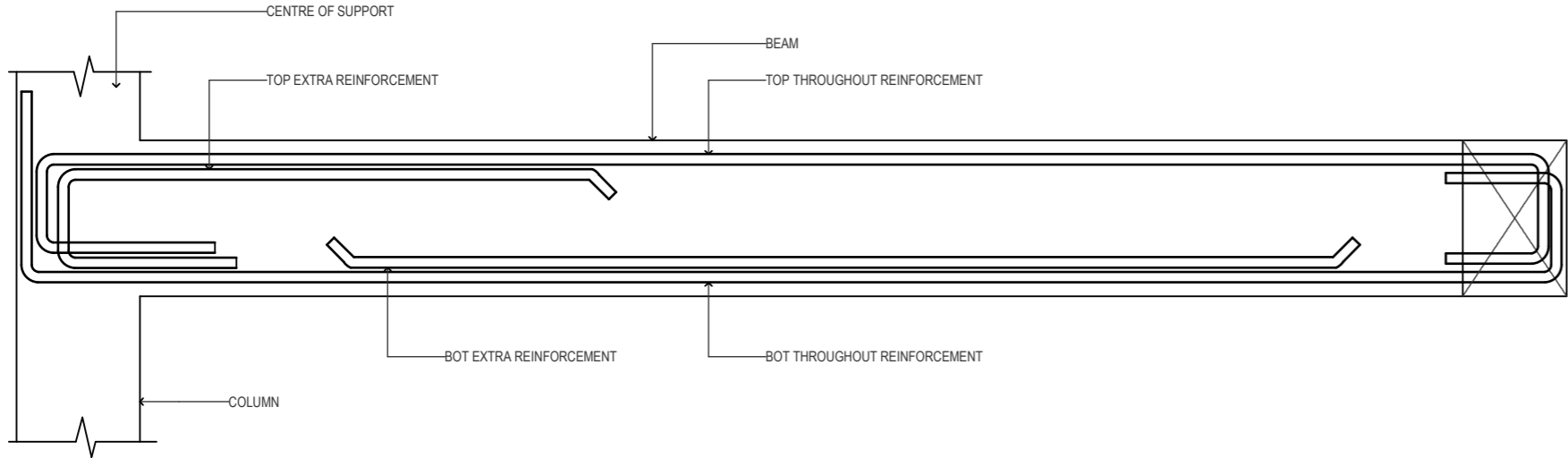
SLAB-BEAM ANCHORAGE DETAIL



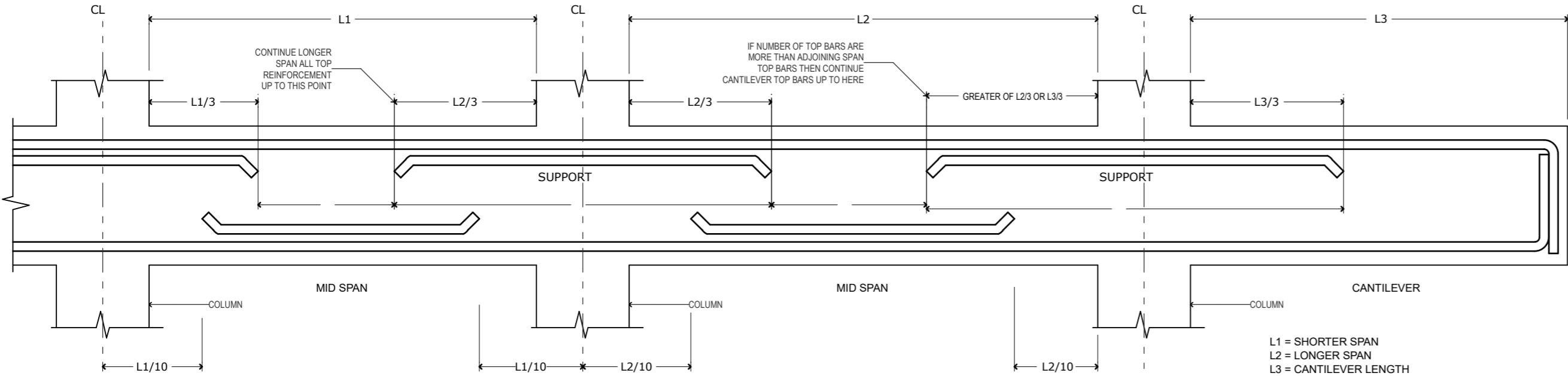
CANTILEVERED SLAB EDGE DETAIL



SHEAR LINKS ANCHORAGE DETAIL



END COLUMN TO BEAM CONNECTION



SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)

GENERAL NOTES 2

GENERAL NOTES

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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Iqbal Rasheed

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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

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DRAWING TITLES

General Notes 2

TITLE2

TITLE3

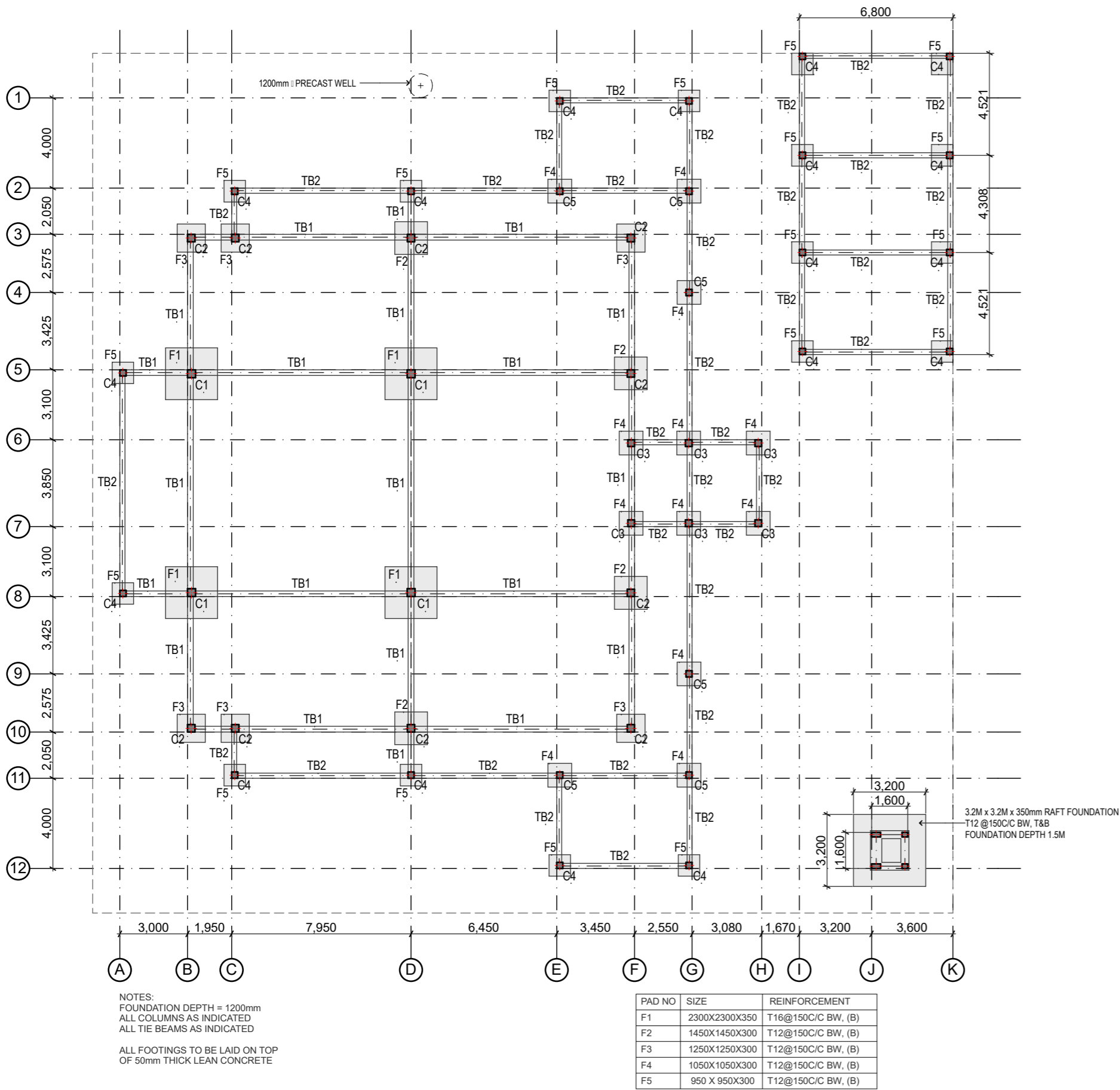
TITLE4

SHEET SIZE A2 SCALE

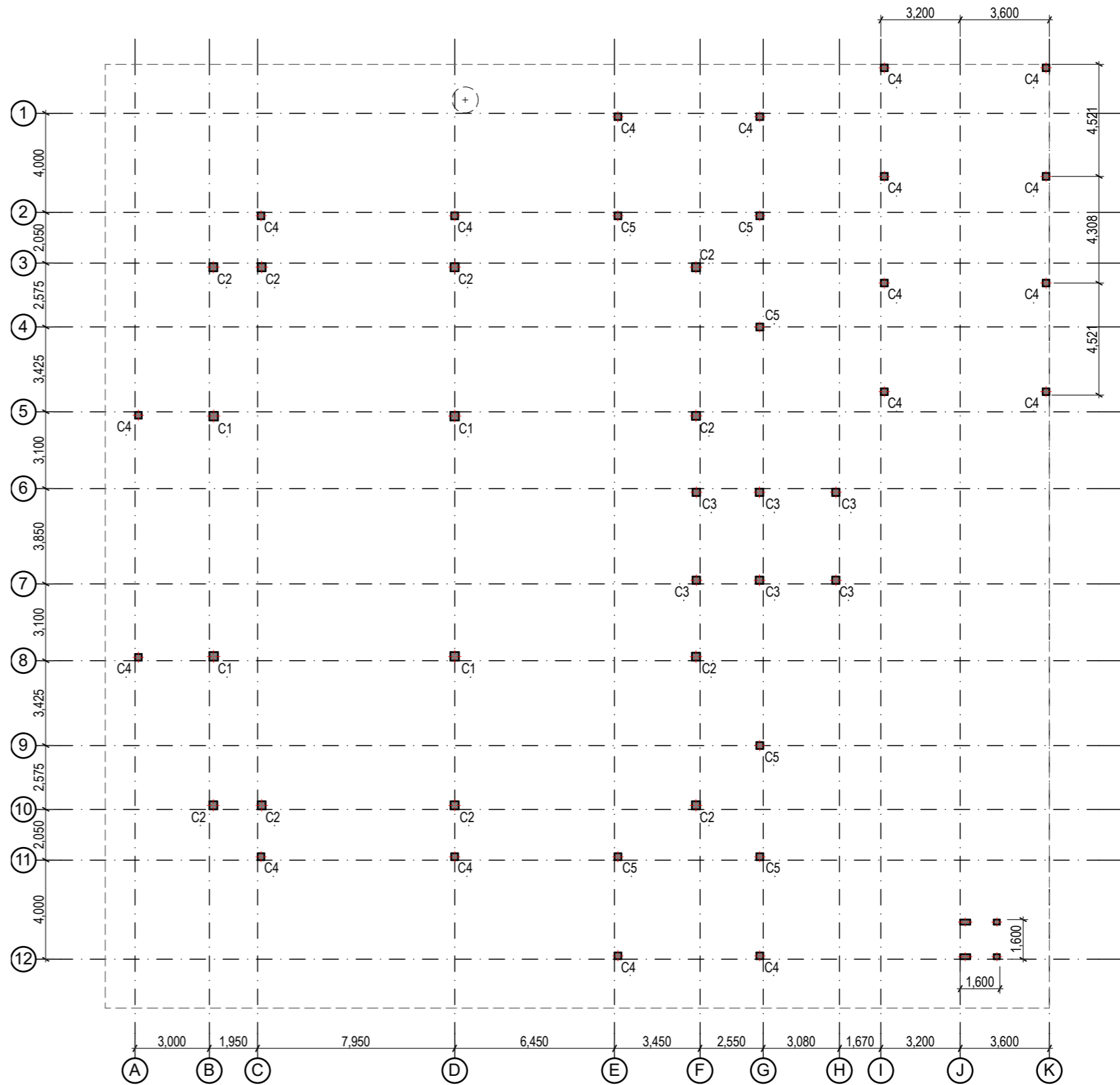
SHEET NO.

S.01.2

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FOUNDATION PLAN
Scale: 1:200



COLUMNS & GRID LAYOUT
Scale: 1:200

GENERAL NOTES

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ARCHITECT Ismail Rasheed

INT. DESIGNER #Int. Designer

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INFRA. DESIGNER #Infra. Designer

DRAWN BY LR

CHECKED BY Mariyam Inasha Shareef

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DRAWING TITLES

Foundation Layout

TITLE2

TITLE3

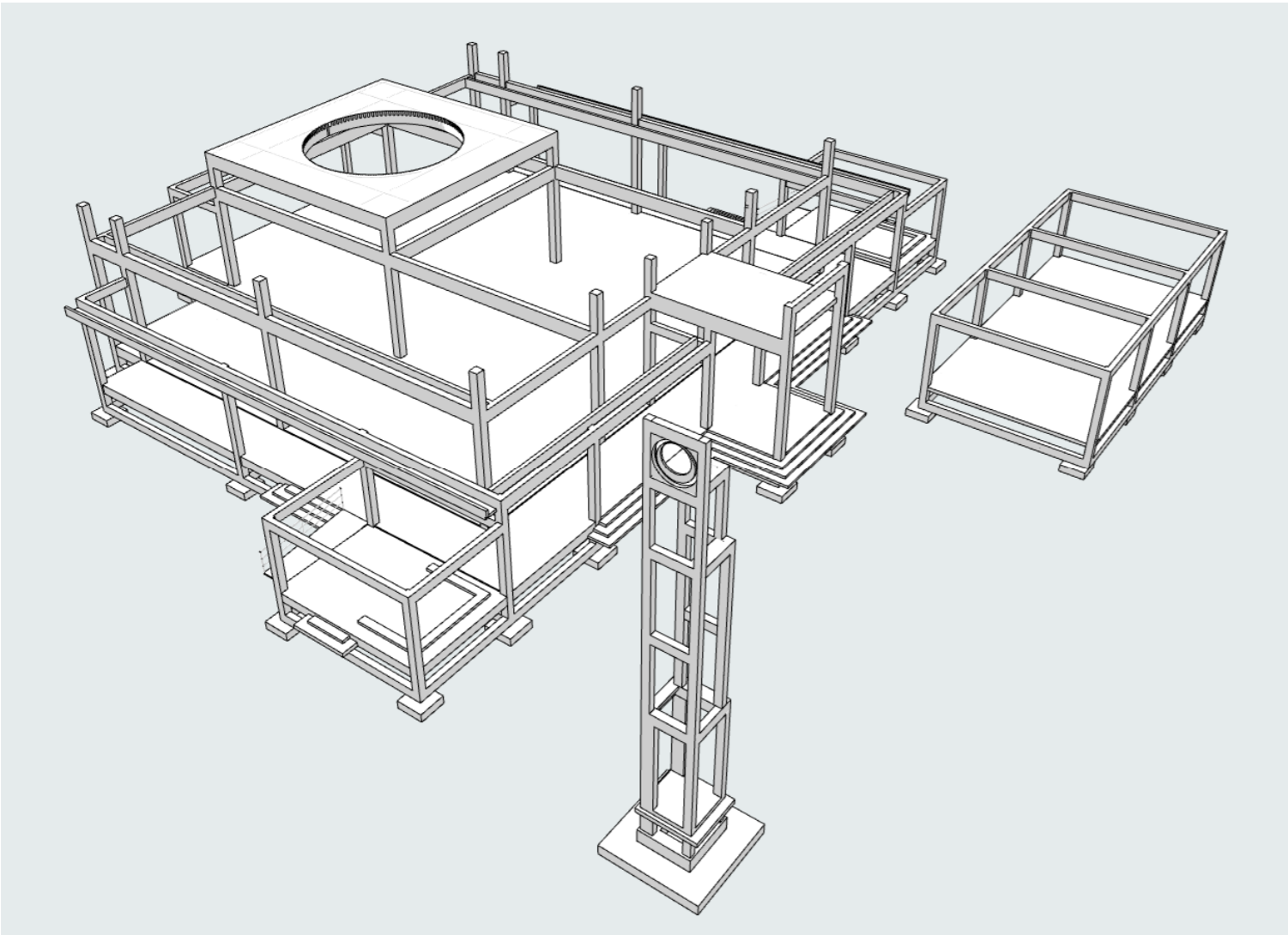
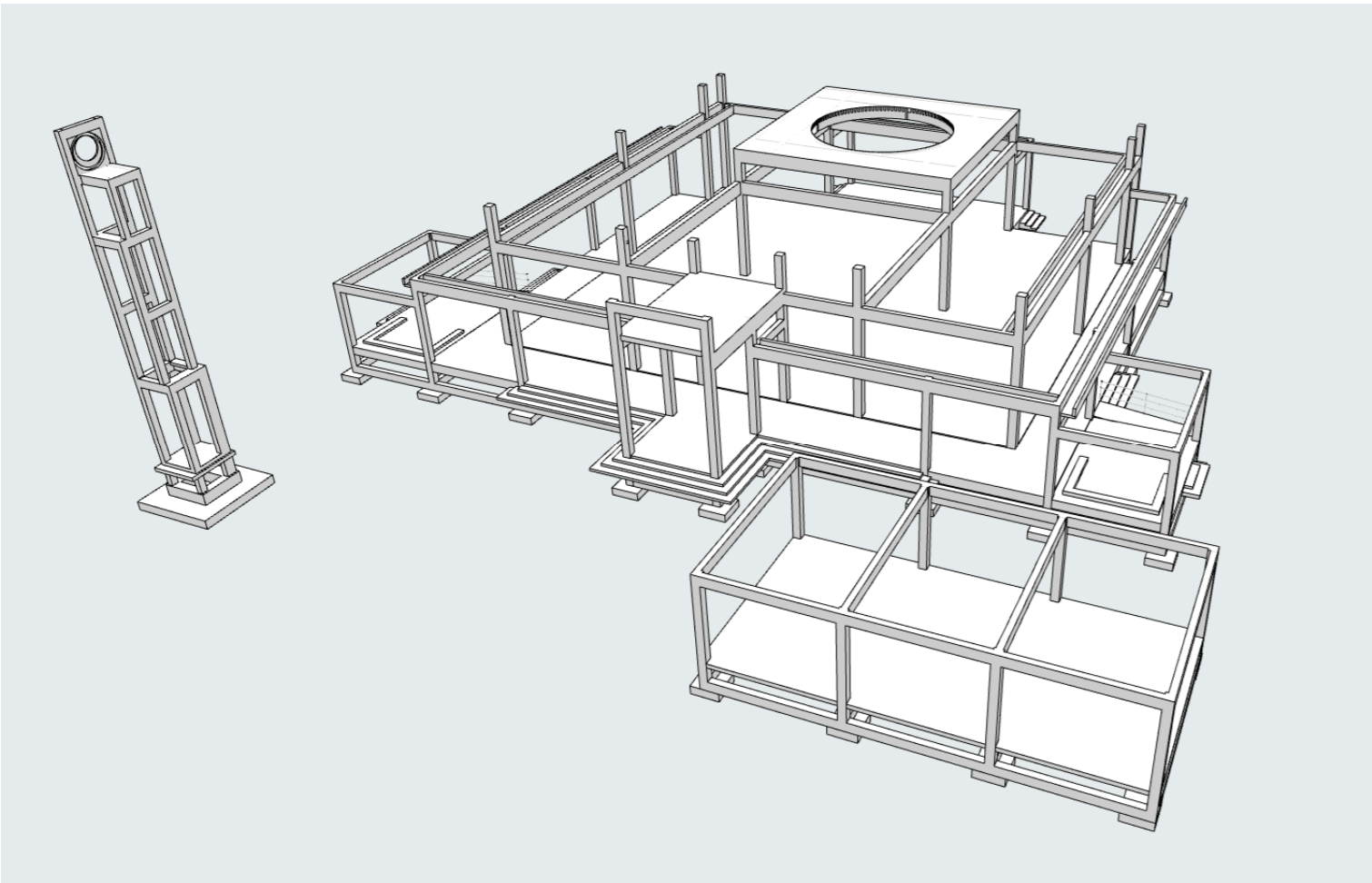
TITLE4

SHEET SIZE A2 SCALE 1:200

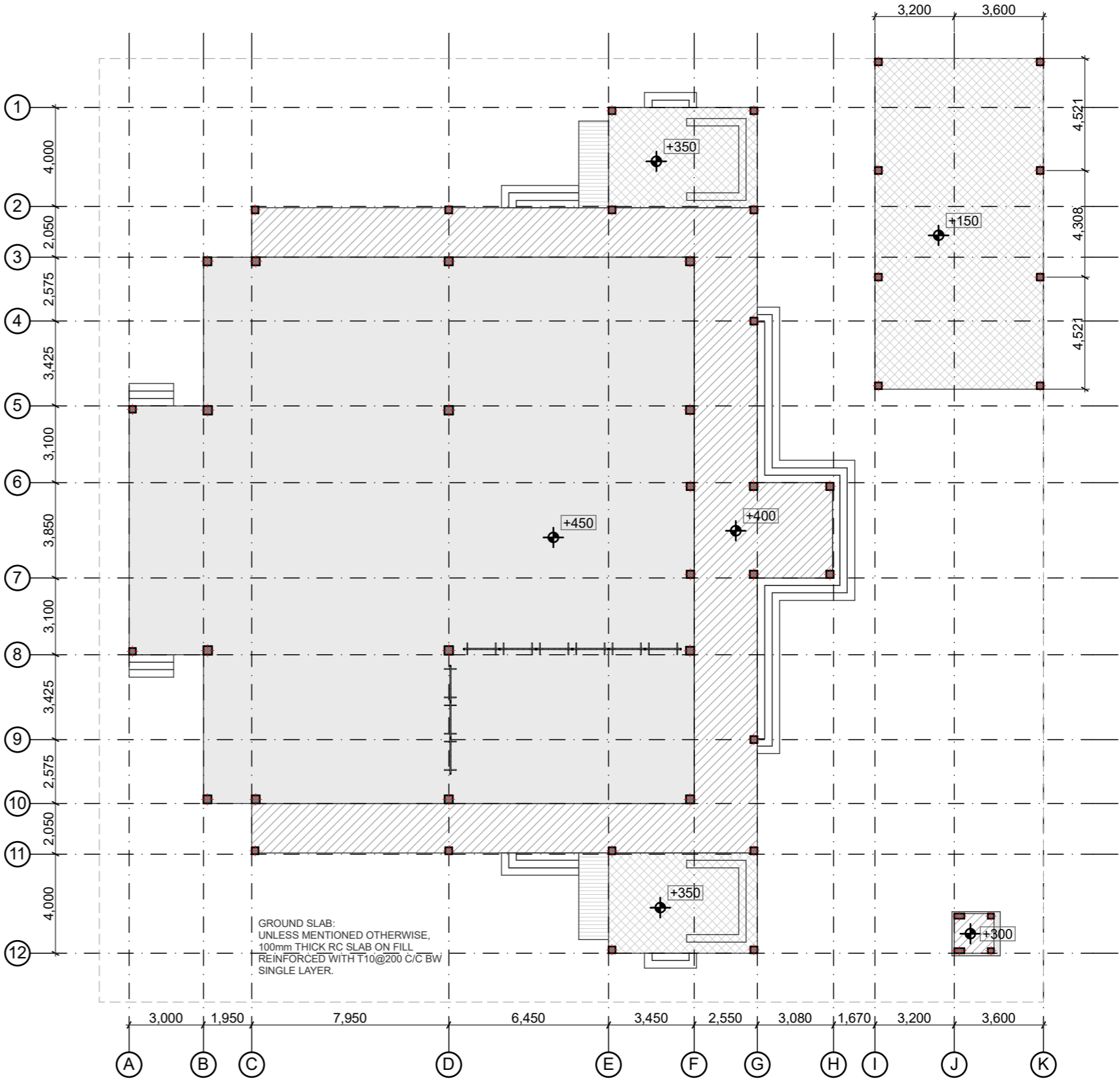
SHEET NO.

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3D MAIN FRAMEWORK
NTS



GROUND SLAB PLAN
Scale: 1:200

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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

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PROJECT NAME

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CLIENT Ministry of Islamic Affairs

DEVELOPER

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DRAWING TITLES

Ground Slab Plan

TITLE2

TITLE3

TITLE4

SHEET SIZE A2 SCALE 1:200, 1:25

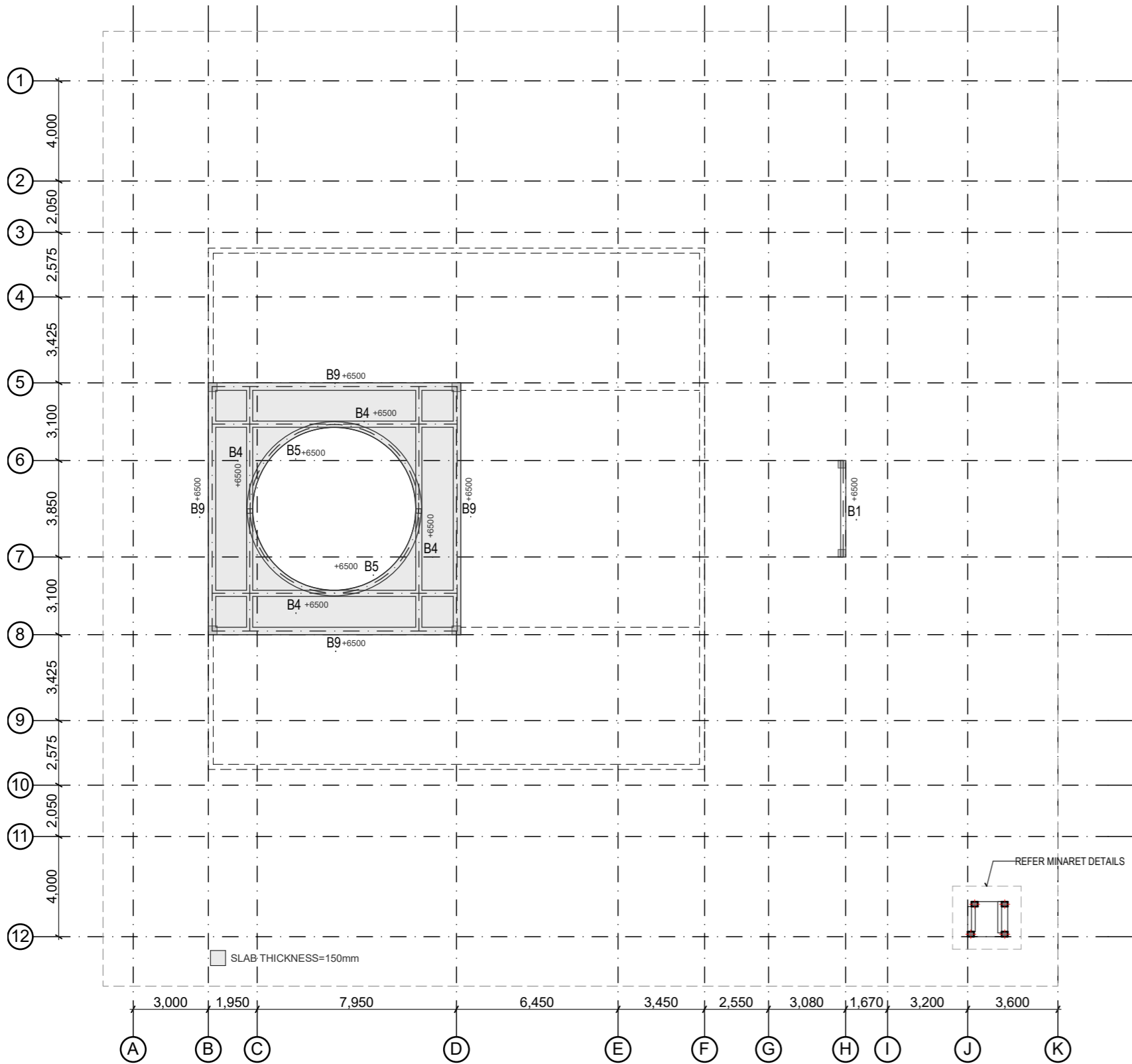
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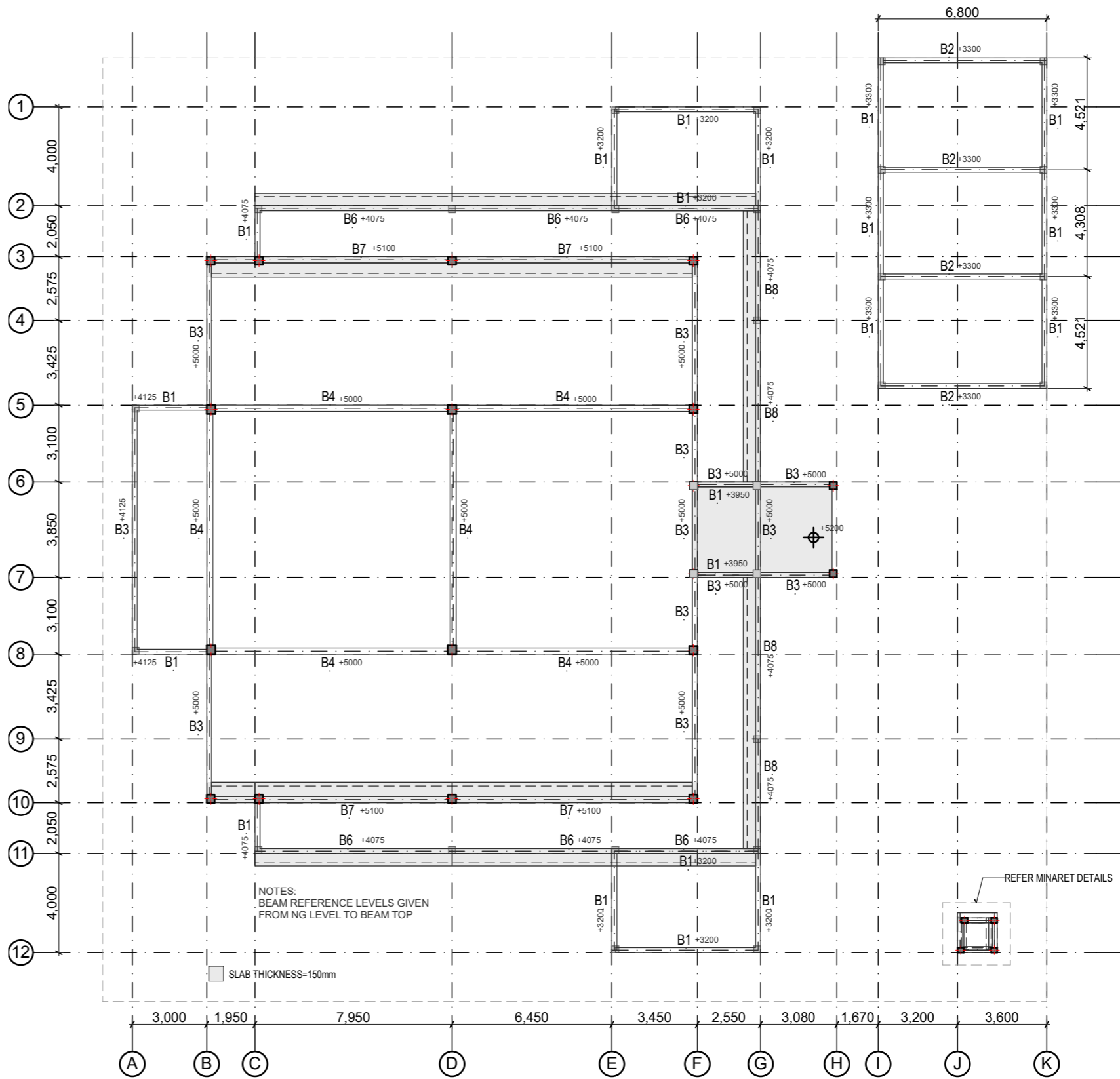
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ROOF BEAM PLAN L2
Scale: 1:200

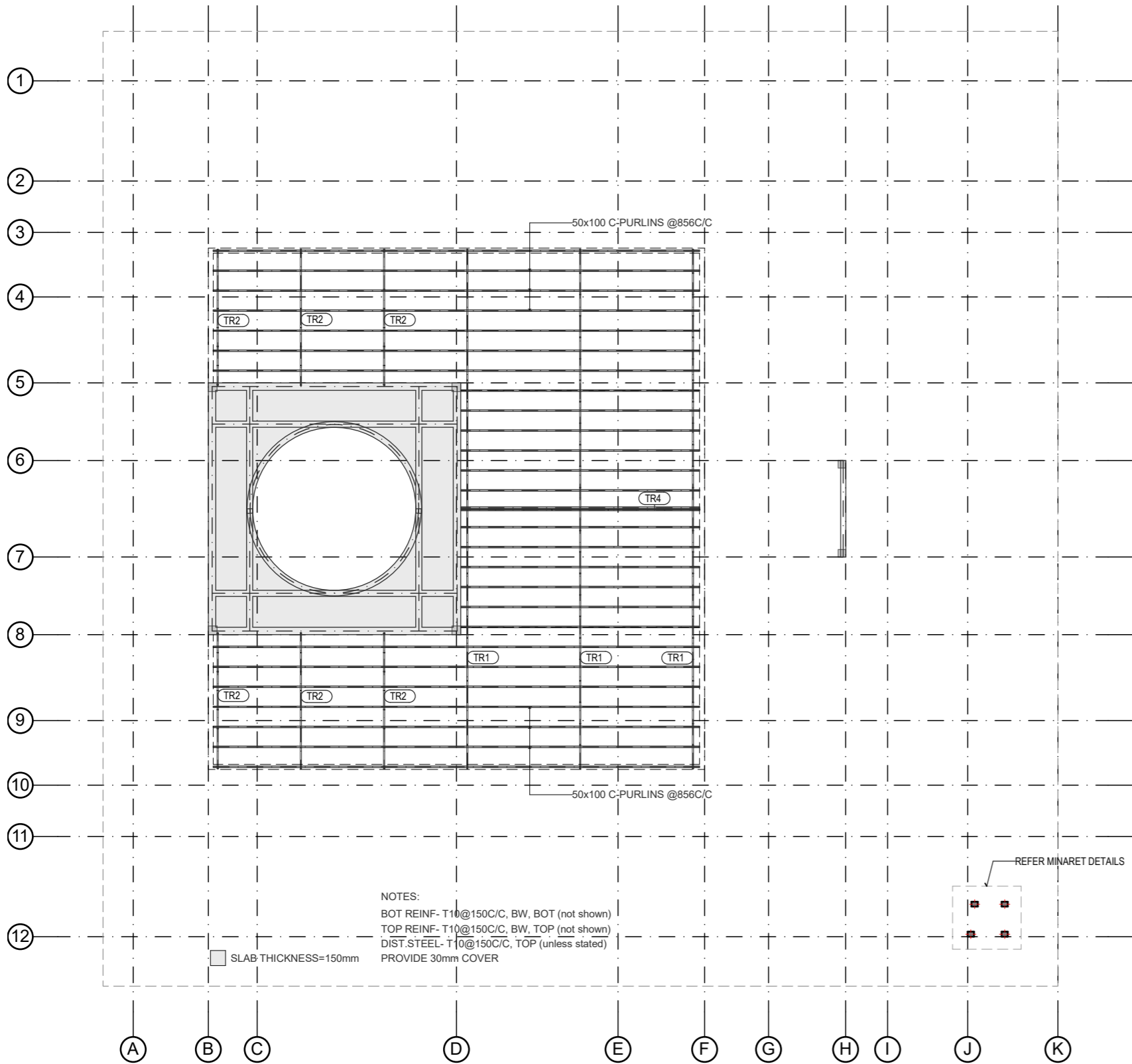


ROOF BEAM PLAN L1
Scale: 1:200

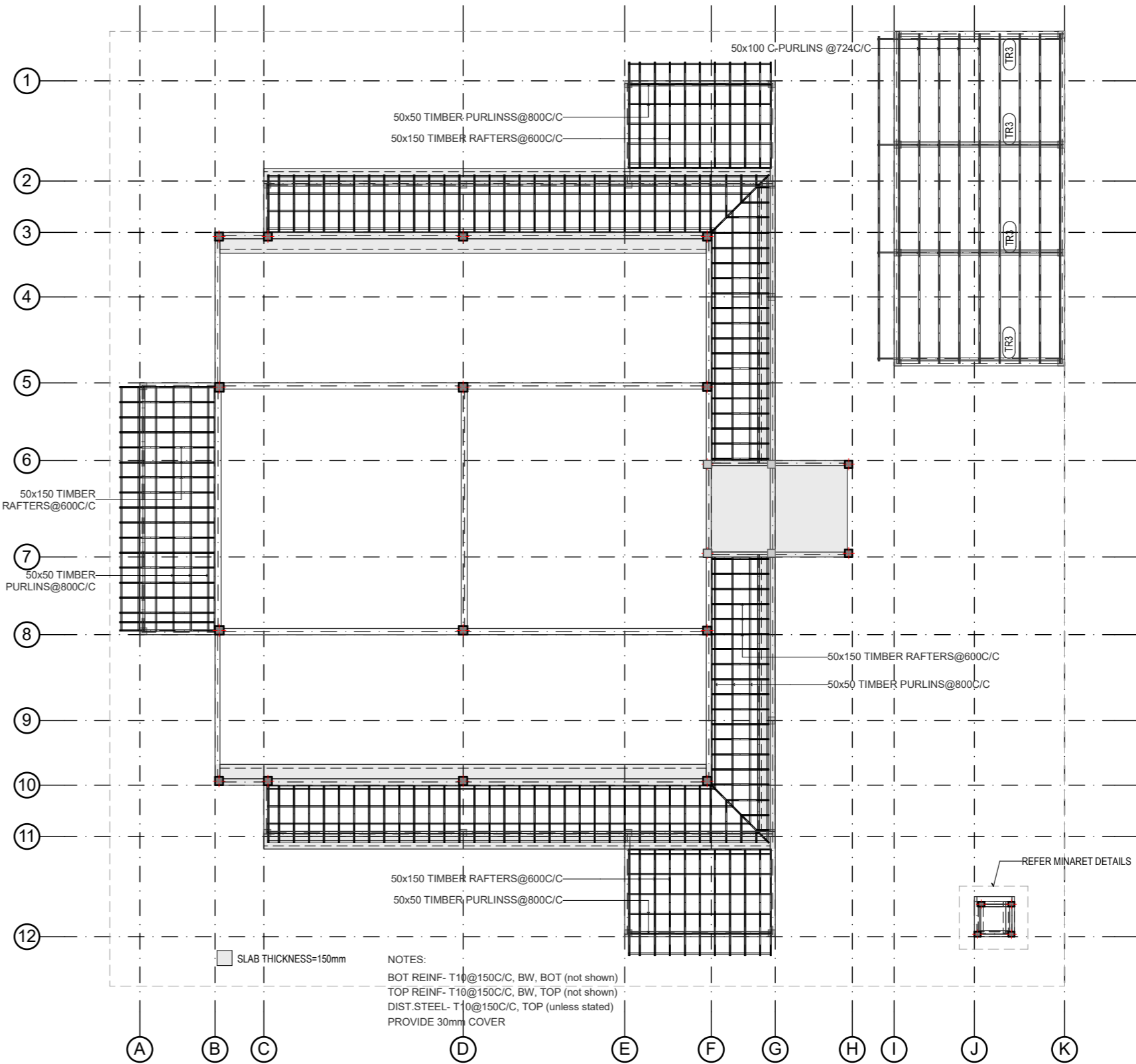
REVISIONS					
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ARCHITECT	Ismail Rasheed
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CIVIL ENGINEER	Mohamed Muthalib Waleed
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INFRA DESIGNER	#Infra. Designer
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CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	
PROJECT NAME	
Prototype Mosques	
CLIENT Ministry of Islamic Affairs	
DEVELOPER	
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BUILDING NAME	
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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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ROOF FRAMING PLAN L2
Scale: 1:200




ROOF FRAMING PLAN L1
Scale: 1:200

GENERAL NOTES

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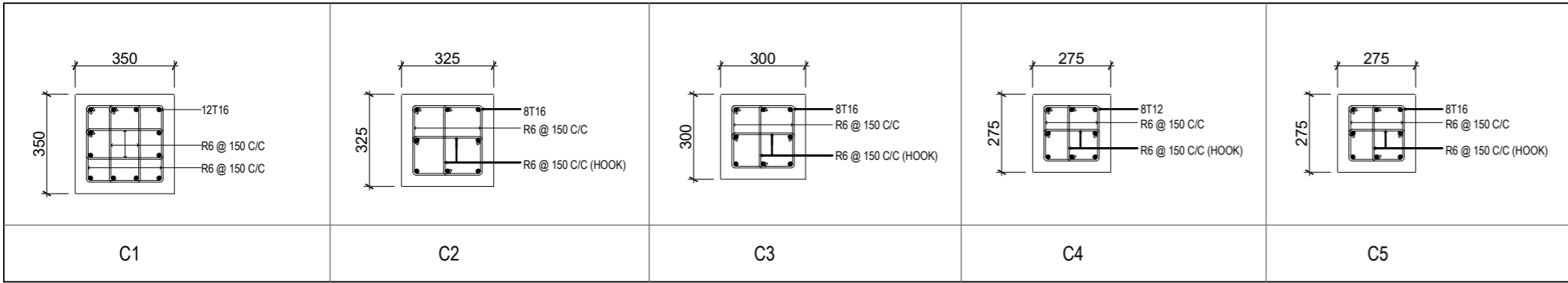
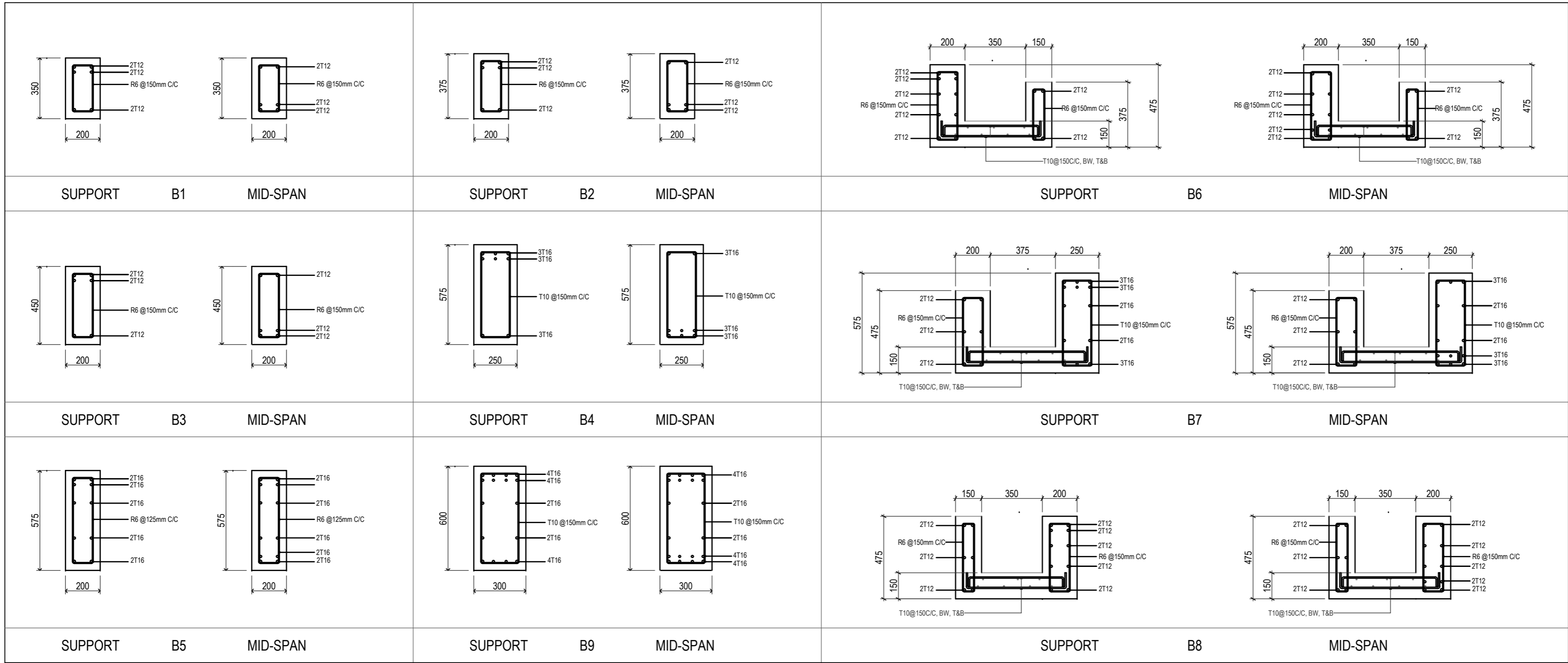
	
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ARCHITECT	Ismail Rasheed
INT. DESIGNER	#Int. Designer
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MEP ENGINEER	M.K.B. C.D.P. N.K.P. M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
CHECKED BY	Mariyam Inasha Shareef
APPROVED BY	

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CLIENT	Ministry of Islamic Affairs
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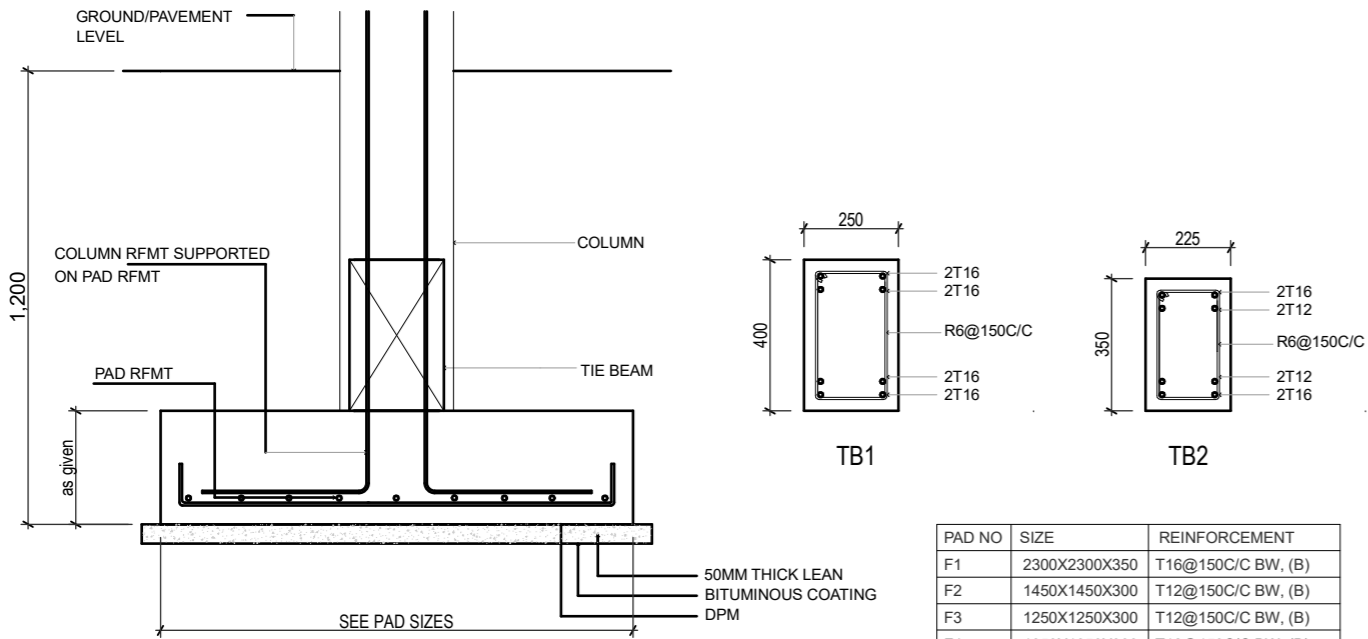
DRAWING TITLES	
Roof Framing Plan	
TITLE2	
TITLE3	
TITLE4	
SHEET SIZE	A2
SCALE	1:200
SHEET NO.	S.01.6

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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 ∅ 1125mm
20mm ∅ 930mm
16mm ∅ 720mm
12mm ∅ 550mm
10mm ∅ 450mm

CONGETE 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

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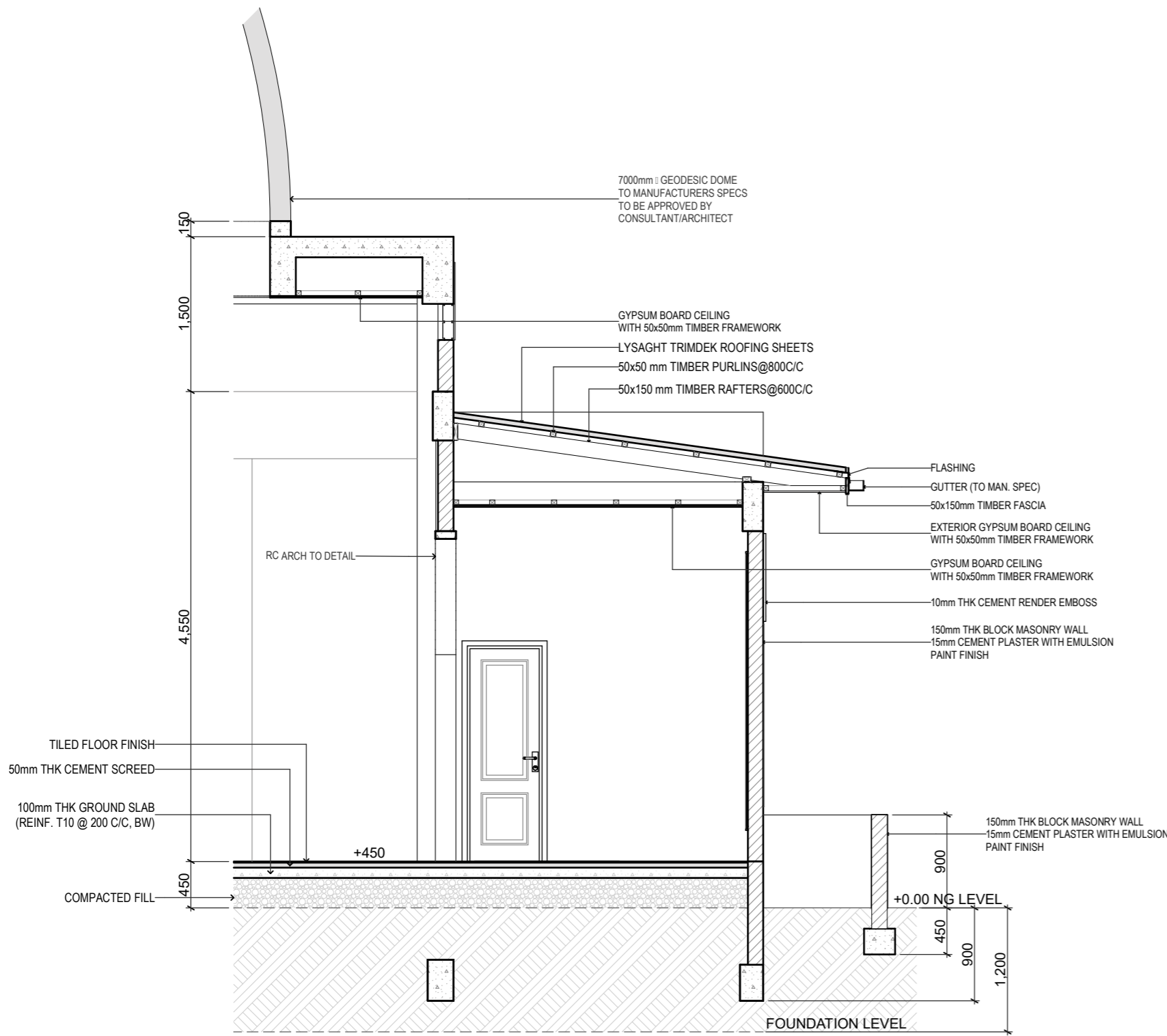
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INFRASTRUCTURE DESIGN
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CONSULTANT PROJECT NO.	R24002MA
ARCHITECT	Ismail Rasheed
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MEP ENGINEER	M.K.B. C.D.P. N.K.P. M.E.I
INFRA. DESIGNER	#Infra. Designer
DRAWN BY	LR
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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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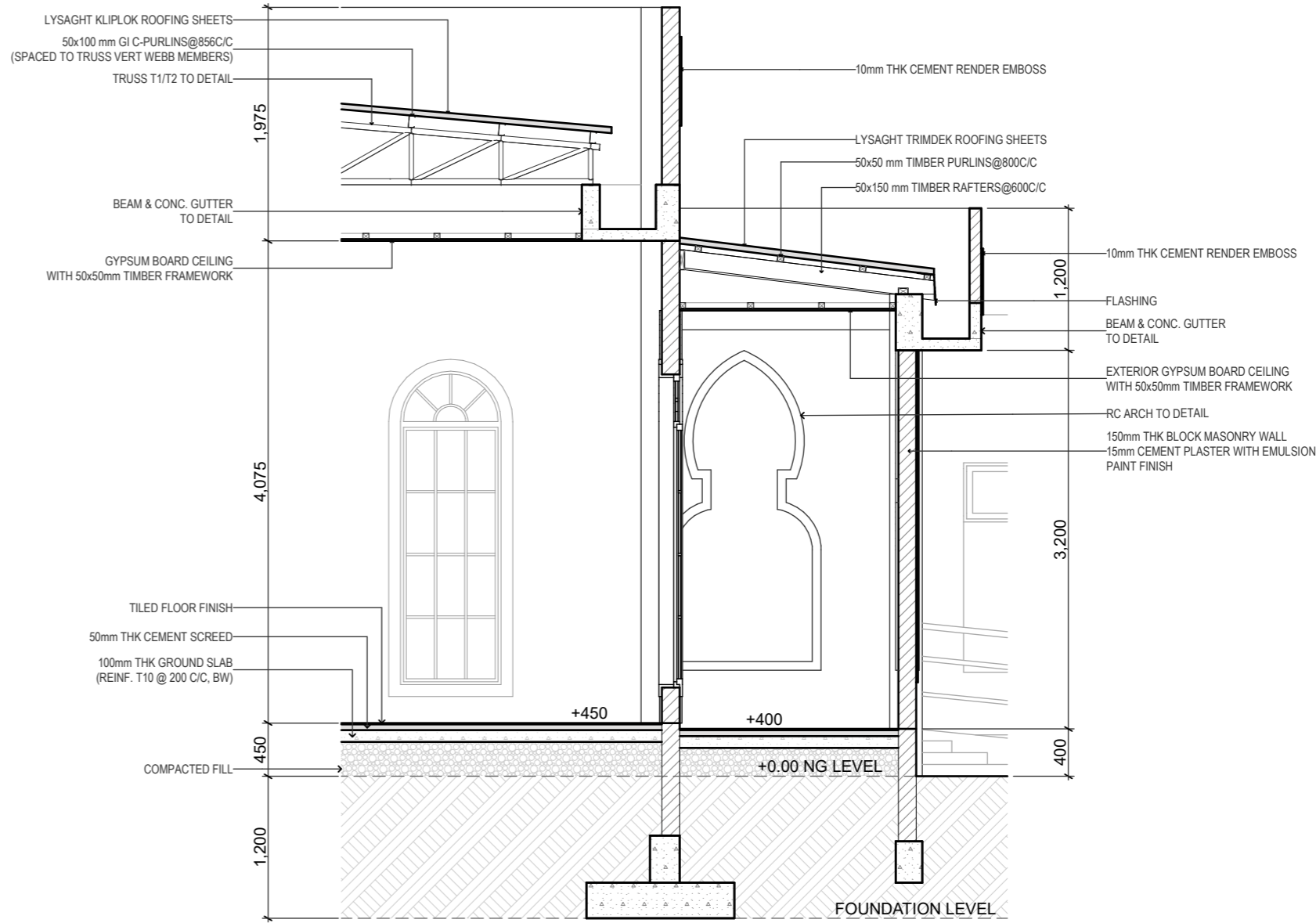
DRAWING TITLES		
Structural Details		
TITLE2		
TITLE3		
TITLE4		
SHEET SIZE	A2	SCALE 1:20
SHEET NO.		
S.03.1		

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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

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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

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DRAWING TITLES

Part Section Detail

TITLE2

TITLE3

TITLE4

SHEET SIZE A2

SCALE 1:50

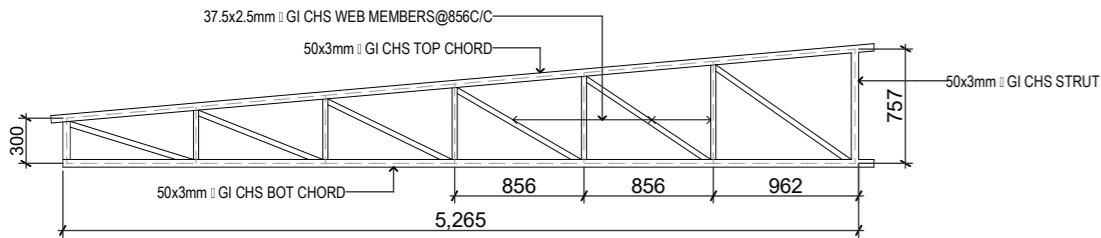
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S.03.2

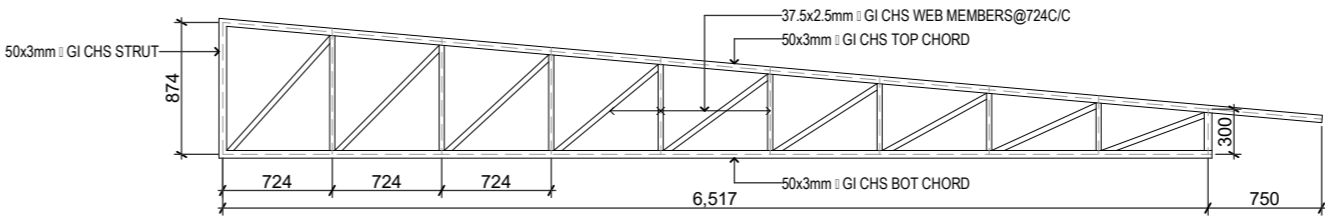
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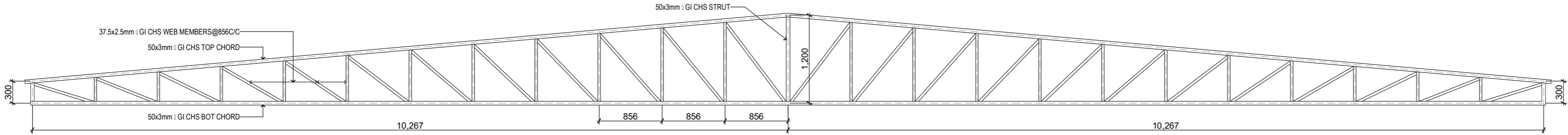
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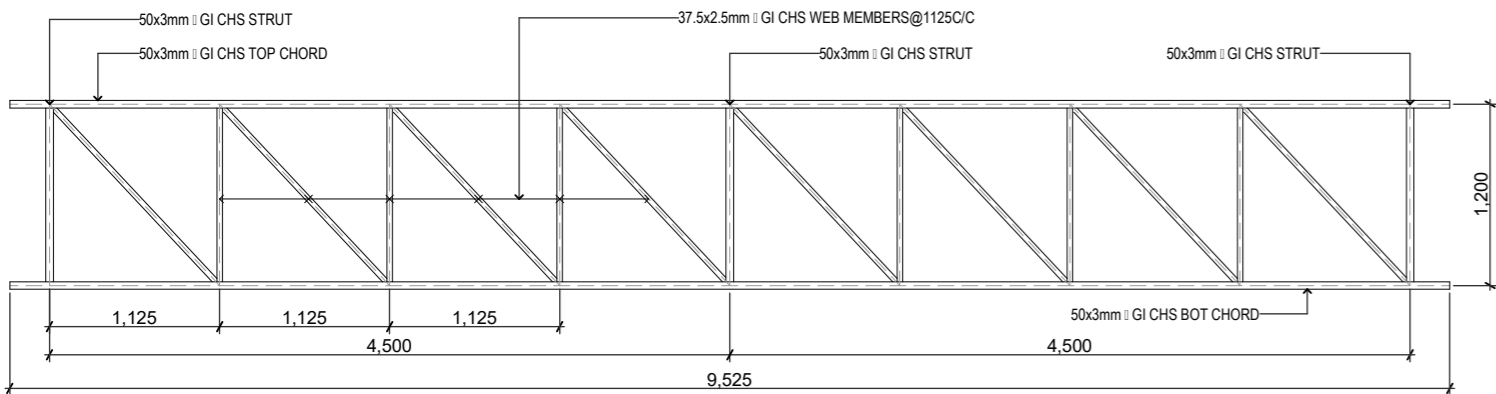
TRUSS T2



TRUSS T3



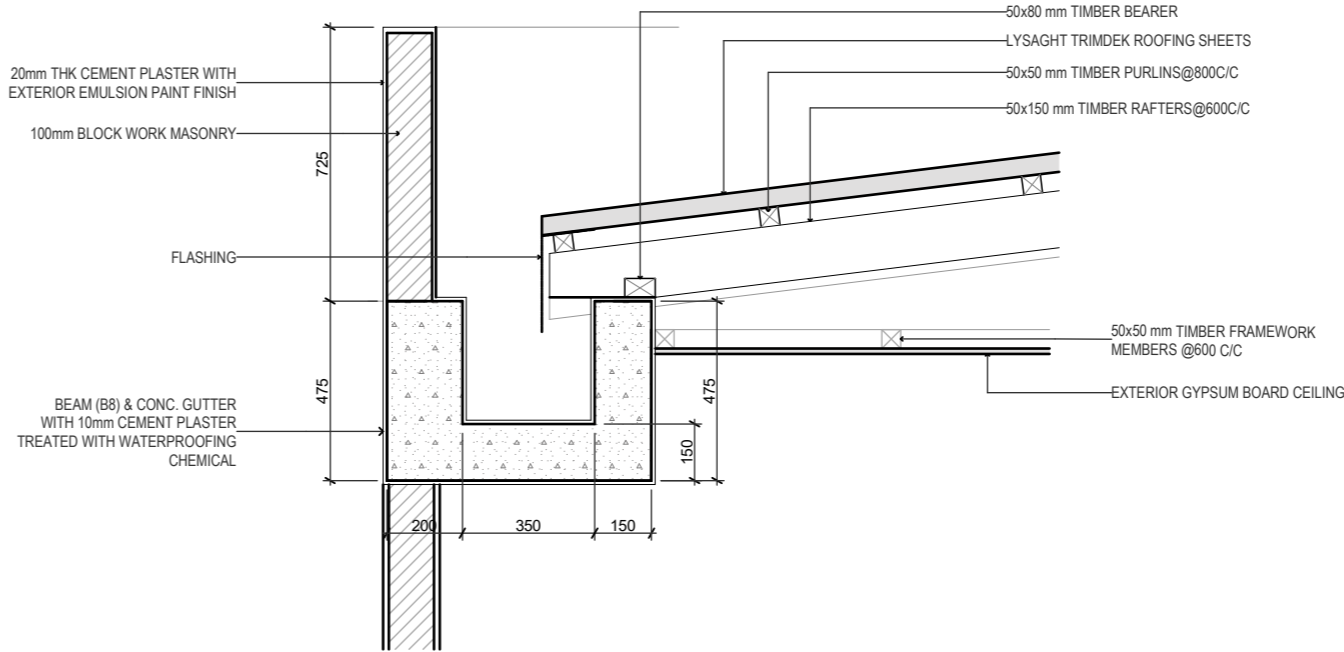
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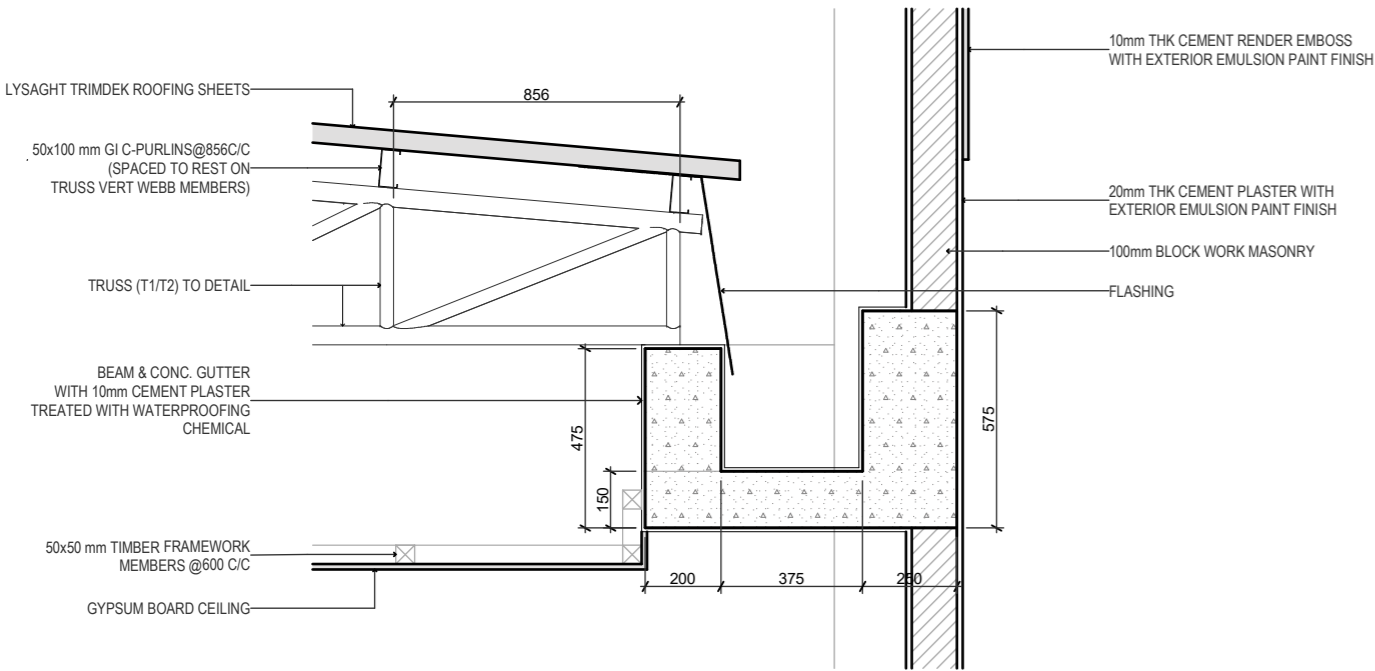
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TRUSS DETAILS

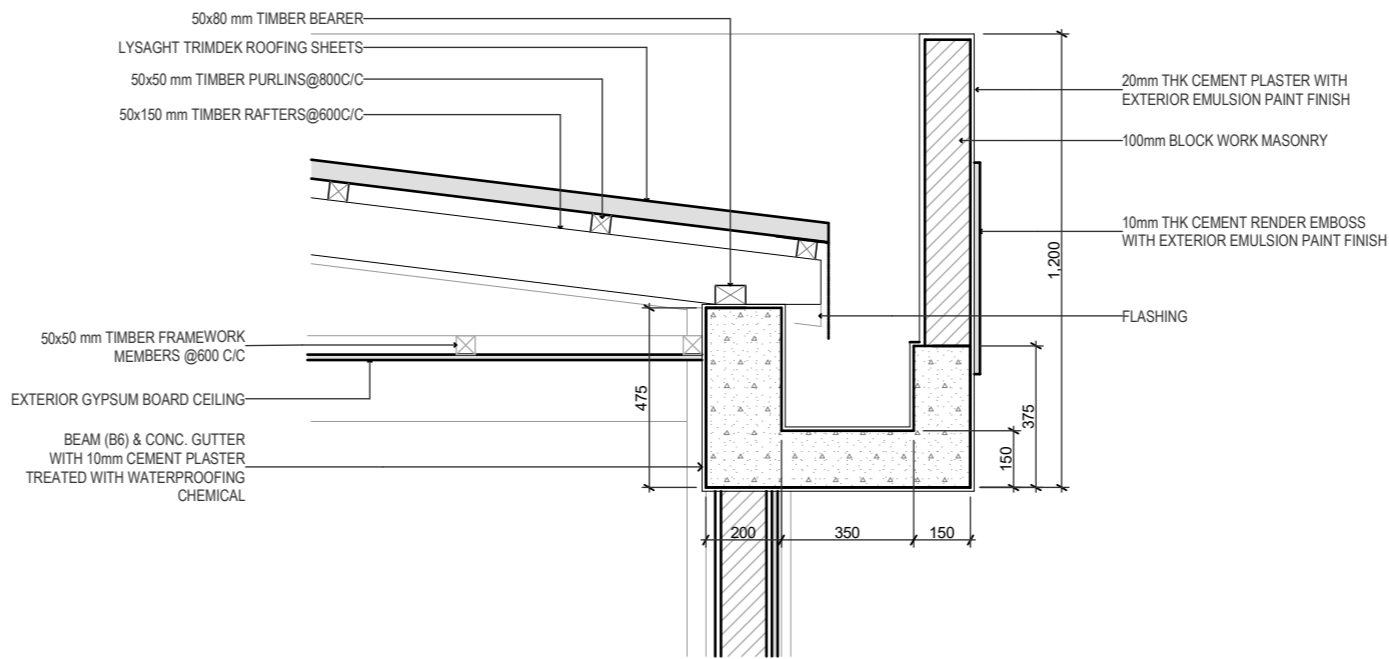
Scale: 1:50



CONC. GUTTER (B8)



CONC. GUTTER (B7)



CONC. GUTTER (B6)

ROOF FRAME TO CONCRETE GUTTER CONNECTION

Scale: 1:20

GENERAL NOTES

REVISIONS

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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 Insha Shareef
APPROVED BY	

PROJECT NAME

Prototype Mosques

CLIENT Ministry of Islamic Affairs

DEVELOPER

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DRAWING TITLES

Roofing Details

TITLE2

TITLE3

TITLE4

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

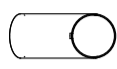


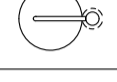


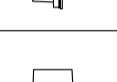


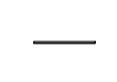
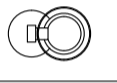




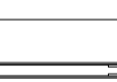
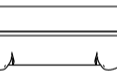
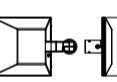


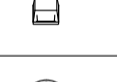
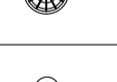






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PROTOTYPE MOSQUE - 700
CLIENT: MINISTRY OF ISLAMIC AFFAIRS
SERVICES DRAWINGS









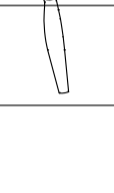
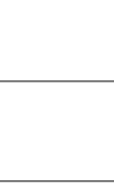
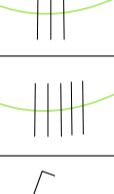

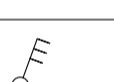



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LEGEND (LIGHTING)

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


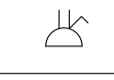
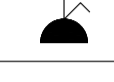
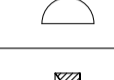

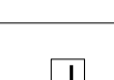
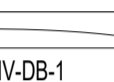
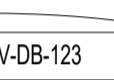

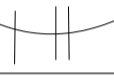


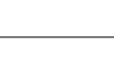





LEGEND (LIGHTING)

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

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

PROTOTYPE MOSQUES

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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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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
	29 MAY 2024

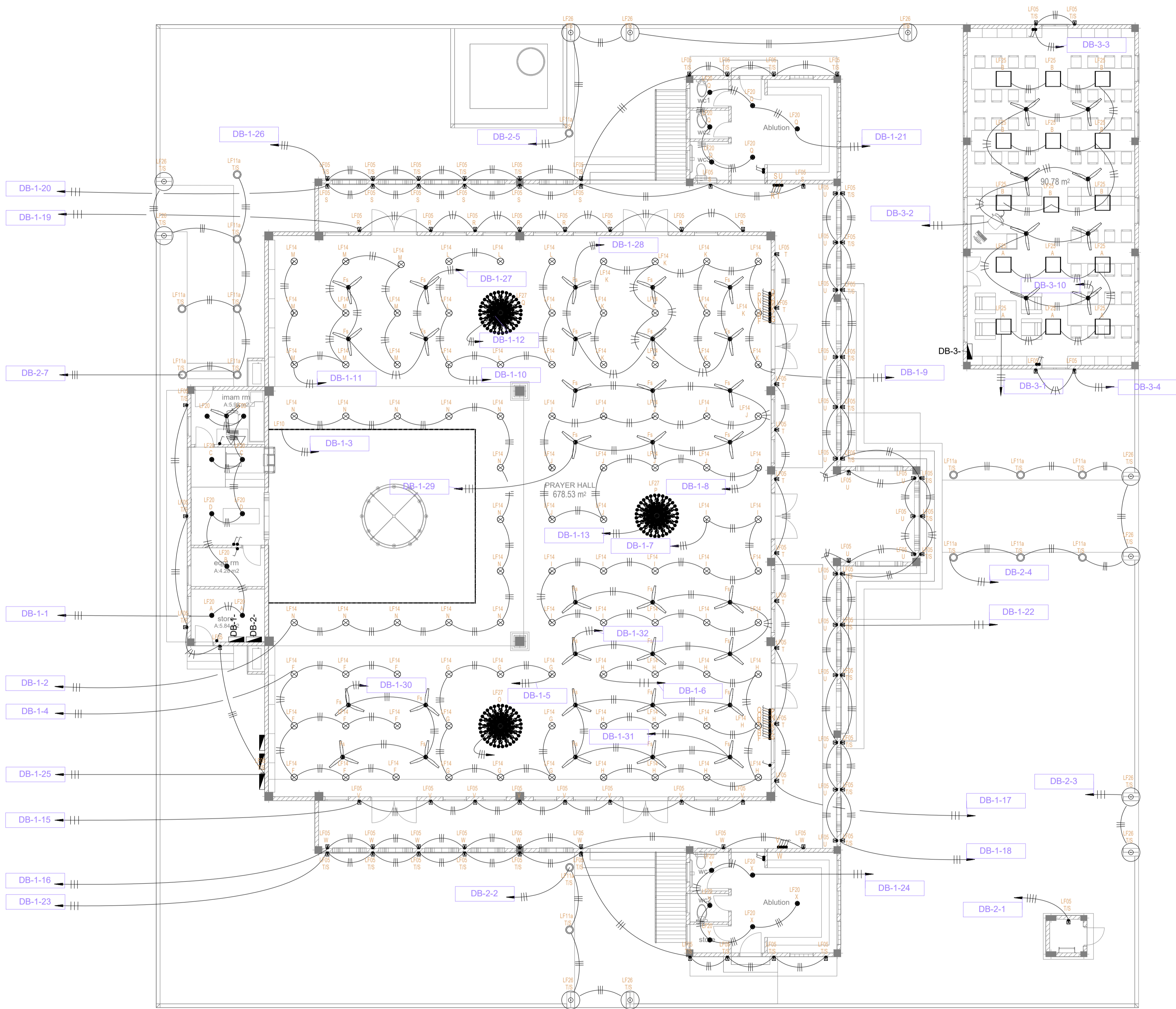
DRAWING TITLES
GROUND FLOOR
LIGHTING LAYOUT

SHEET SIZE A1 SCALE 1:100

SHEET NO.

ELE - 02

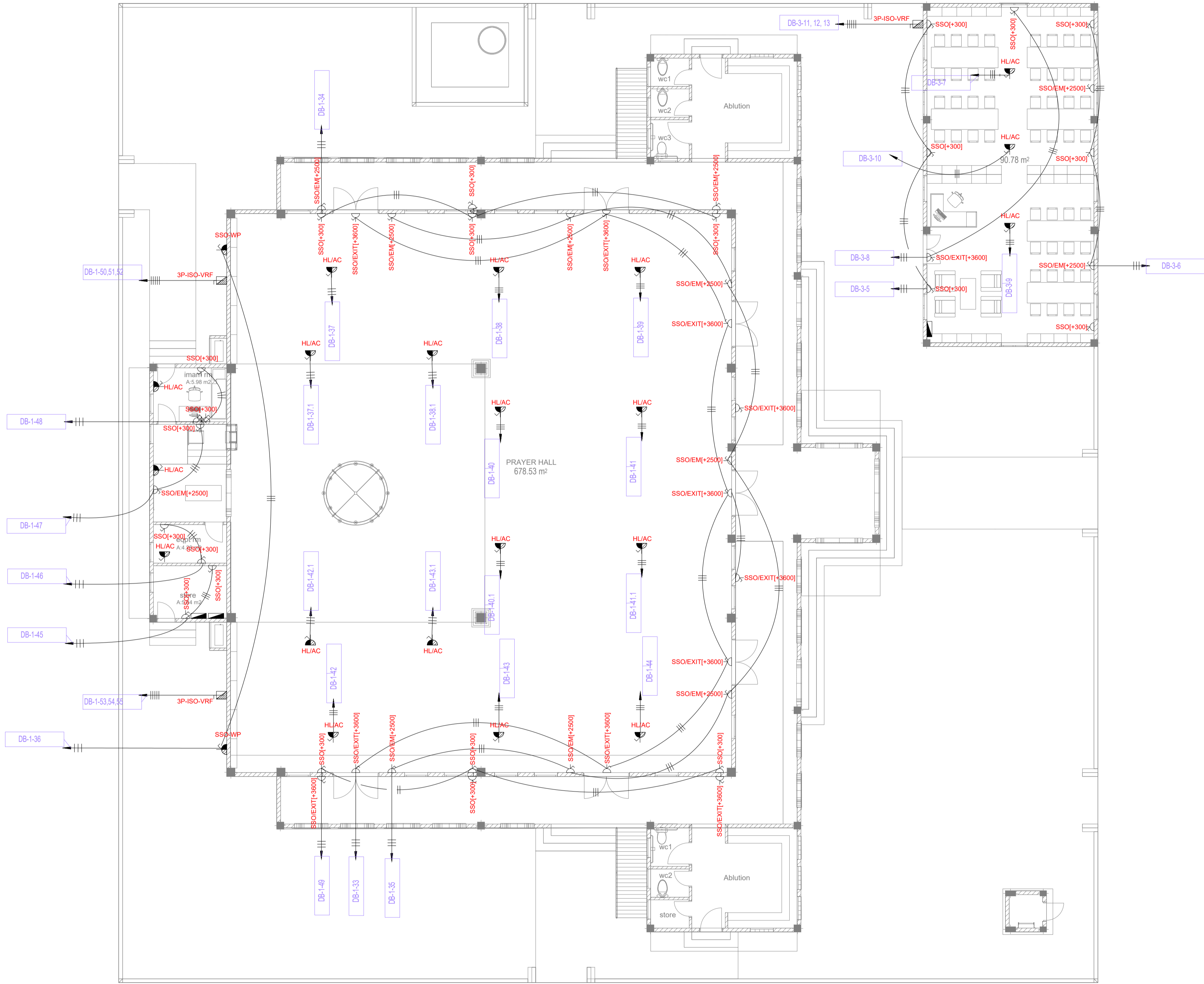
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GROUND FLOOR_LIGHTING LAYOUT

SCALE 1:100



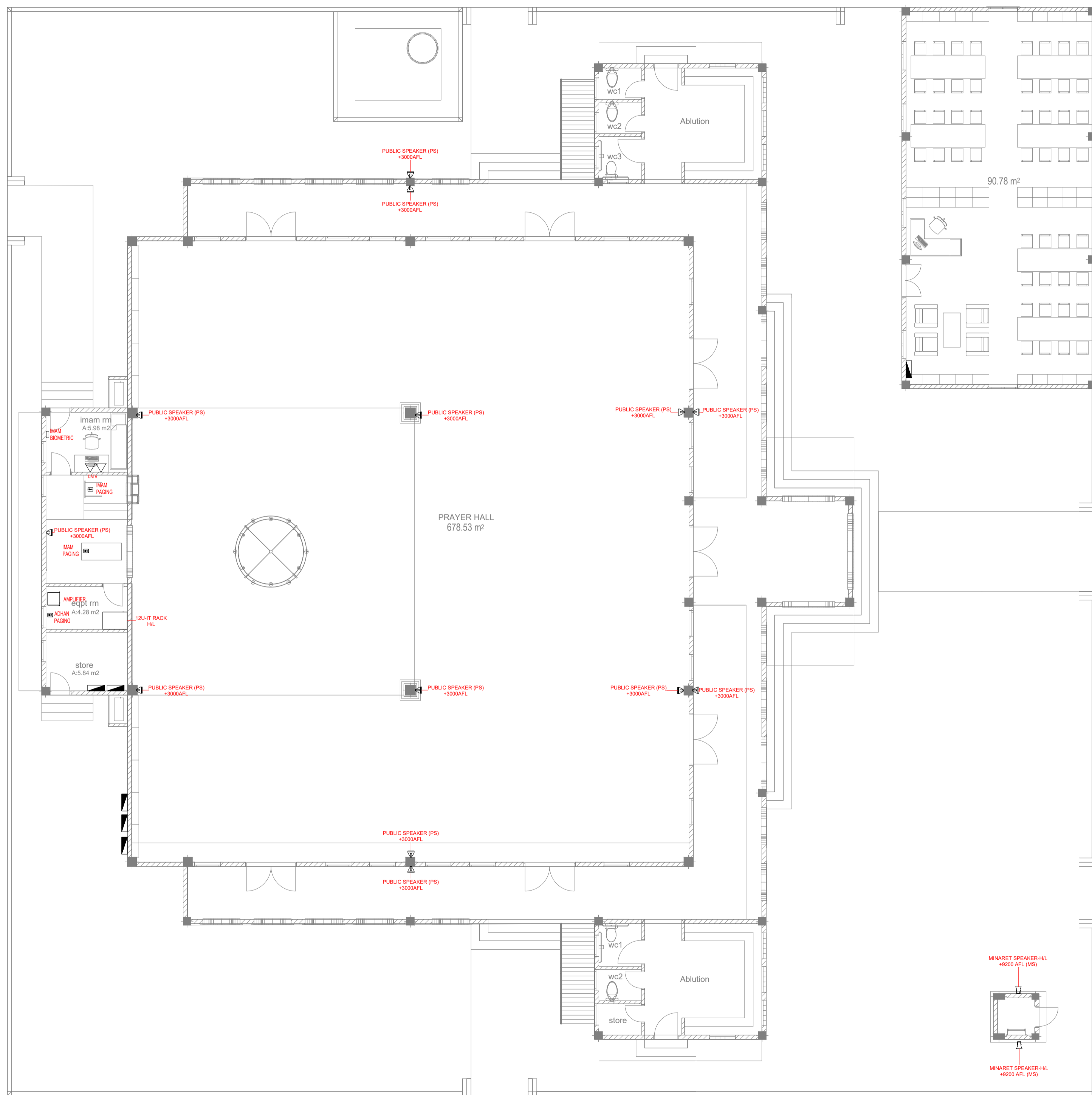


GROUND FLOOR_POWER LAYOUT

SCALE 1:100



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APPROVED BY	<div> </div>							
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MOSQUE FOR 700 PAX								
BUILDING/STRUCTURE NO.		ISSUE DATE						
		29 MAY 2024						
DRAWING TITLES								
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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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BUILDING NAME
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MOSQUE FOR 700 PAX

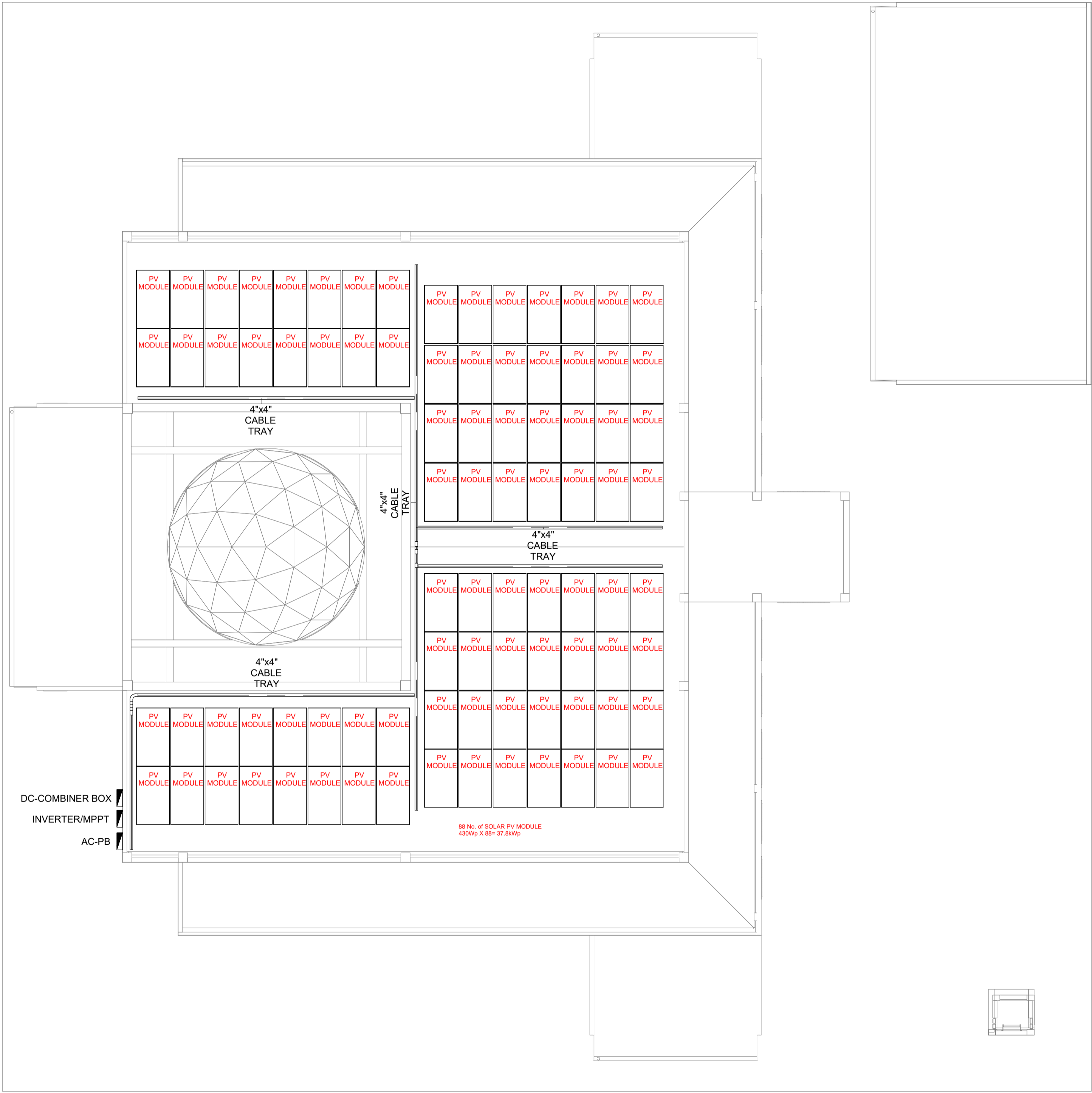
BUILDING/STRUCTURE NO.	ISSUE DATE 29 MAY 2024
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99	100

GROUND FLOOR PUBLIC ANNOUNCEMENT AND ICT LAYOUT

SHEET SIZE	A1	SCALE	1:100
SHEET NO.			

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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

ATOLL

ISLAND

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BUILDING NAME

MOSQUE FOR 700 PAX

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	29 MAY 2024

DRAWING TITLES

ROOF
SOLAR PV LAYOUT

SHEET SIZE A1 SCALE 1:100

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-35mm ² Cu/ XLPE/SWA/PVC + 25mm ² PE		CABLE LAYOUT :		RUN CONCEALED												
TYPE:		3 PHASE																				
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/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	32A, 4P 30mA	2x1C-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-6mm ² PVC/PVC + 6mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² 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-2.5mm ² PVC/PVC + 2.5mm ² PVC PE	CONDUIT/RACEWAY	
DB-1-45	13A SINGLE POWER SOCKET SWITCH TYPE	2	90	180.00	1.00	0.80	0.90															

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.

REVISIONS

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

LOAD CALCULATION

FEEDER NAME/No:	DB-2- (MOSQUE 700 Pax)	MAIN BREAKER :	32AT, 3P, CURVE C MCCB	LOCATION:	EE ROOM																																				
SYSTEM VOLTAGE:	400V/230V, 3Ø, 4W+G	MAIN BUS :	63A,3P, Cu. Com. BUSBAR	ENCLOSURE :	POLYCARBONATE, IP55																																				
MAIN. KAIC:	10kA	EARTH FAULT RATING:	40A,30mA, RCCD	MOUNTING :	Wall Mounted																																				
FED FROM (SOURCE):	DB-1	MAIN FEEDER SIZE:	1x4C-10mm²Cu/ XLPE/SWA/PVC + 10mm² PE	CABLE LAYOUT :	RUN CONCEALED																																				
TYPE:	3 PHASE																																								
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/R CCB	WIRING CONDUCTOR	CONDUIT/RACEWAY																			
											R(L1)	Y(L2)	B(L3)	3PHASE	AT	AF	P	kA				RUN CONCEALED																			
DB-2-1	LF05-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	3	50	150.00	1.00	0.80	0.90	133.33	120.00	230	0.58				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY																			
DB-2-2	LF11.A, LF26-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	4	50	200.00	1.00	0.80	0.90	177.78	160.00	230		0.77			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY																			
DB-2-3	LF26-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	2	50	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-2-4	LF11.A, LF26-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	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-2-5	LF11.A, LF26-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	4	50	200.00	1.00	0.80	0.90	177.78	160.00	230		0.77			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY																			
DB-2-6	SPARE	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-2-7	LF11.A, LF26-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	7	50	350.00	1.00	0.80	0.90	311.11	280.00	230	1.35				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY																			
DB-2-8	LF11.a-LIGHTING FIXTURE IN TIMER SWITCH(T/S)	4	50	200.00	1.00	0.80	0.90	177.78	160.00	230		0.77			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY																			
DB-1-	SPARE	1	100	100.00	1.00	0.80	0.90	88.89	80.00	230			0.39		10	100	1	6	C																						
DB-1-	SPARE	1	100	100.00	1.00	0.80	0.90	88.89	80.00	230	0.39				10	100	1	6	C																						
	TOTAL CONNECTED LIGHTING LOAD										3.86	2.32	1.16		32	100	3	10	C		4x1C-6mm² PVC/PVC + 6mm² PVC PE	CONDUIT/RACEWAY																			
DB-2-9,10,11	Pump 1	1	2,300.00	2,300.00	1.00	0.80	0.90	2,044.44	1,840.00	230	2.95	2.95	2.95		32	100	3	10	C		1Bx4C-10mm² Cu/XLPE/SWA/PVC +	CONDUIT/RACEWAY																			
DB-2-	SPARE	1	180	180.00	1.00	0.80	0.90	160.00	144.00	230			0.70		16	100	1	6	C																						
DB-2-	SPARE	1	180	180.00	1.00	0.80	0.90	160.00	144.00	230	0.70				16	100	1	6	C																						
	TOTAL POWER CONNECTED LOAD							2,807.10		400	3.65	2.95	3.65	-	40	100	3	10	C		4x1C-10mm² PVC/PVC + 10mm² PVC PE	CONDUIT/RACEWAY																			
MAIN CONNECTED LOAD(3-phase)																									0.9	5,203.88	4,683.49	7.51	5.27	4.81	7.51				-						-
Load Calculation						List of Equipment						Unit		Qty																											
Description						Description																																			
Total 3 Phase Load (DL)												A		7.51																											
Total Active Power (DL)												KW		4.68																											
Safety Factor												%		25%																											
Total 3 Phase Load with Safety Factor												A		9.39																											
32AT, 3P, CURVE C MCCB												%		25%																											
Number of Feeders												No		9																											
Main Breaker Rating												A		32																											
Busbar Dimensions(mm)												A		11x6																											
Busbar Rating												A		63																											

LOAD CALCULATION

FEEDER NAME/No:	DB-3- (MOSQUE 700 Pax)	MAIN BREAKER :	32AT, 3P, CURVE C MCCB	LOCATION:	EE ROOM																				
SYSTEM VOLTAGE:	400V/230V, 3Ø, 4W+G	MAIN BUS :	63A,3P, Cu. Com. BUSBAR	ENCLOSURE :	POLYCARBONATE, IP55																				
MAIN. KAIC:	10kA	EARTH FAULT RATING:	40A,30mA, RCCD	MOUNTING :	Wall Mounted																				
FED FROM (SOURCE):	DB-1	MAIN FEEDER SIZE:	1x4C-10mm²Cu/ XLPE/SWA/PVC + 10mm² PE	CABLE LAYOUT :	RUN CONCEALED																				
TYPE:	3 PHASE																								
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/R CCB	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				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC 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 PVC 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 PVC 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 PVC 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 PVC 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 PVC 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 PVC 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 PVC 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 PVC 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 PVC 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							4,555.45		400	8.72	2.77	5.92	-	40	100	3	10	C		4x1C-10mm² PVC/PVC + 10mm² PVC 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	Description																		Unit	Qty	
Total 3 Phase Load (DL)				A	8.72	32AT, 3P, CURVE C MCCB																		No	1
Total Active Power (DL)				KW	5.44	MCB 32AT, 10kA-1P																		No	1
Safety Factor				%	25%	MCB 20AT, 6kA-1P																		No	1
Total 3 Phase Load with Safety Factor				A	10.91	MCB 16AT, 6kA-1P																		No	7
32AT, 3P, CURVE C MCCB				%	34%	MCB 10AT, 6kA-1P																		No	5
Number of Feeders				No	10																			No	5
Main Breaker Rating				A	32																				
Busbar Dimensions(mm)				A	11x6																				
Busbar Rating				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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CONSULTANT PROJECT NO. R24002MIA	
ARCHITECT	ISMAL RASHEED
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MEP ENGINEER	CHESTER DIZA PERALTA
INT. DESIGNER	
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

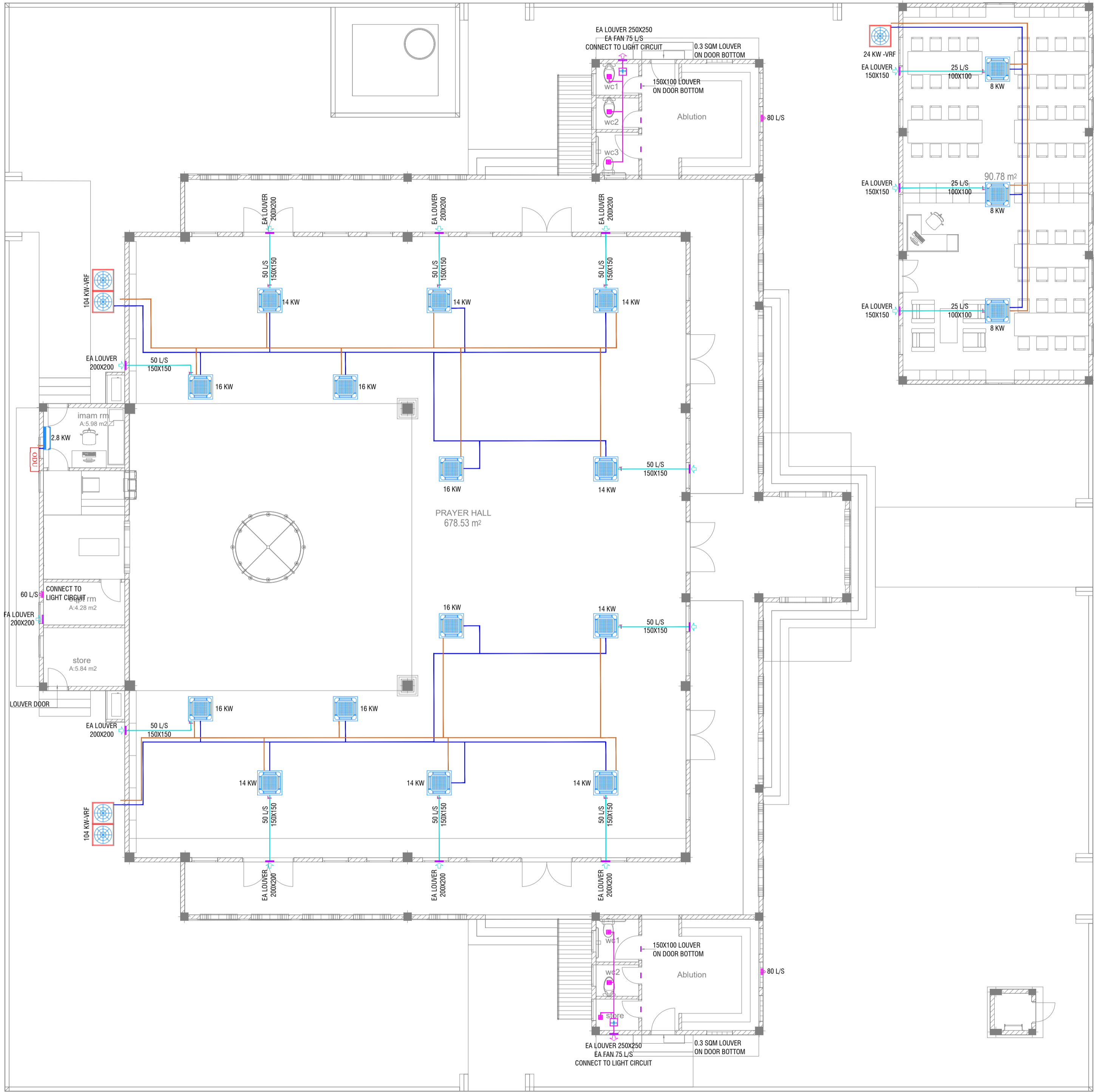
ELECTRICAL ILLUMINATION CALCULATION

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		
Egpt 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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INT. DESIGNER	
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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
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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CONSULTANT PROJECT NO. R24002MIA	
ARCHITECT	ISMAL RASHEED
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MEP ENGINEER	MARK KENN BRITO
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

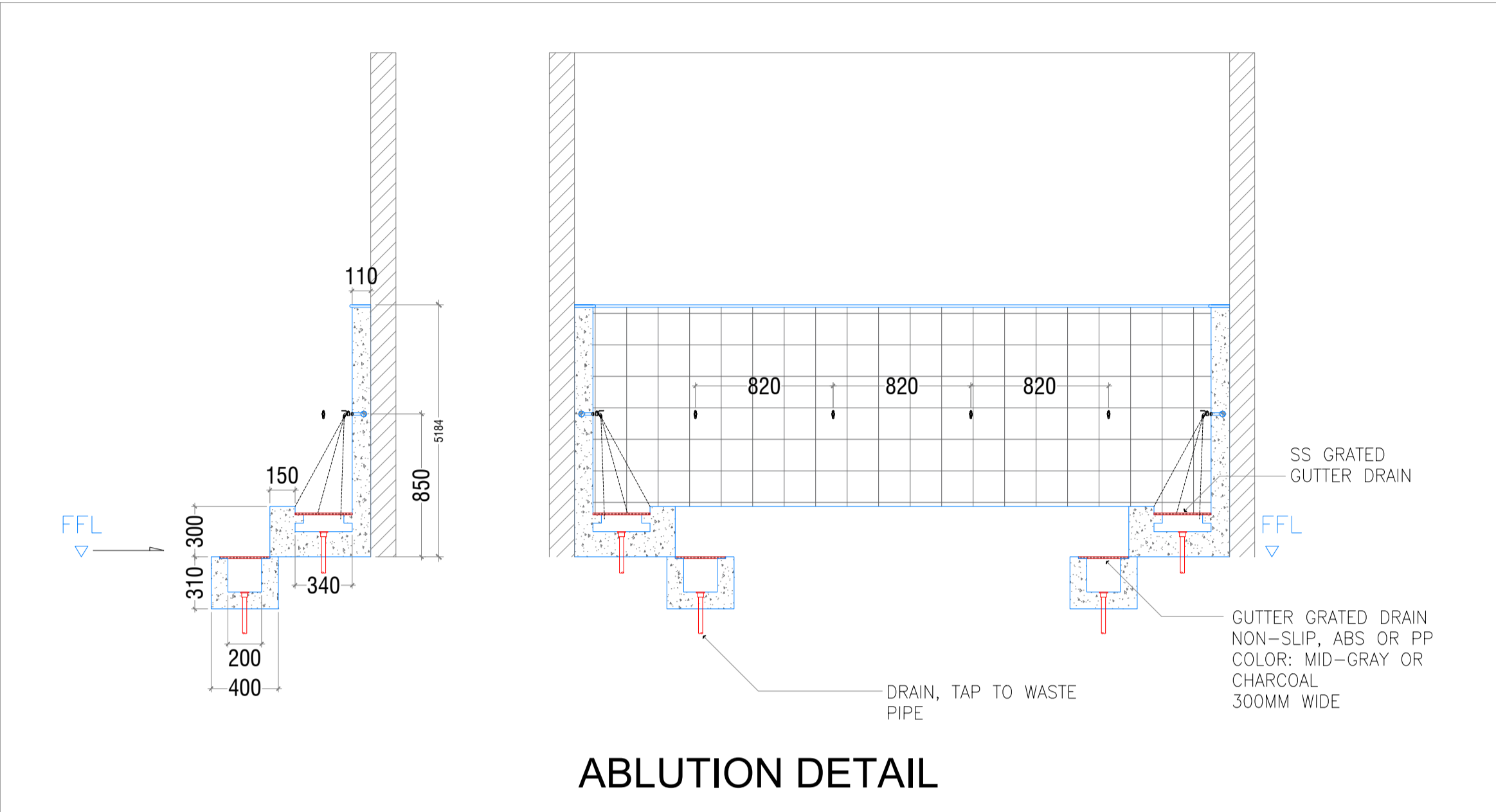
SHEET SIZE	A1	SCALE	NTS
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SHEET NO.

PL - 01

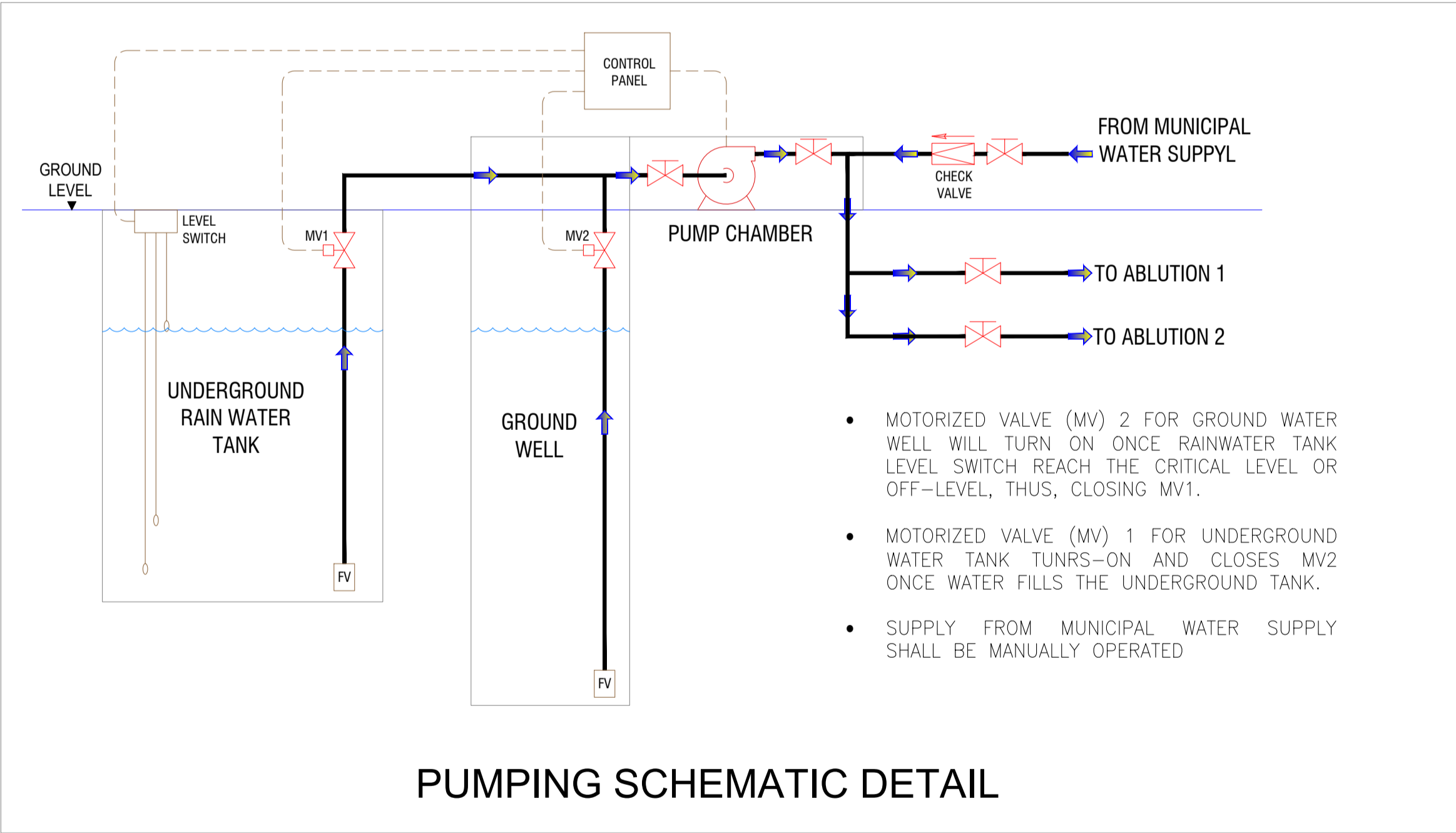
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ABLUTION DETAIL:



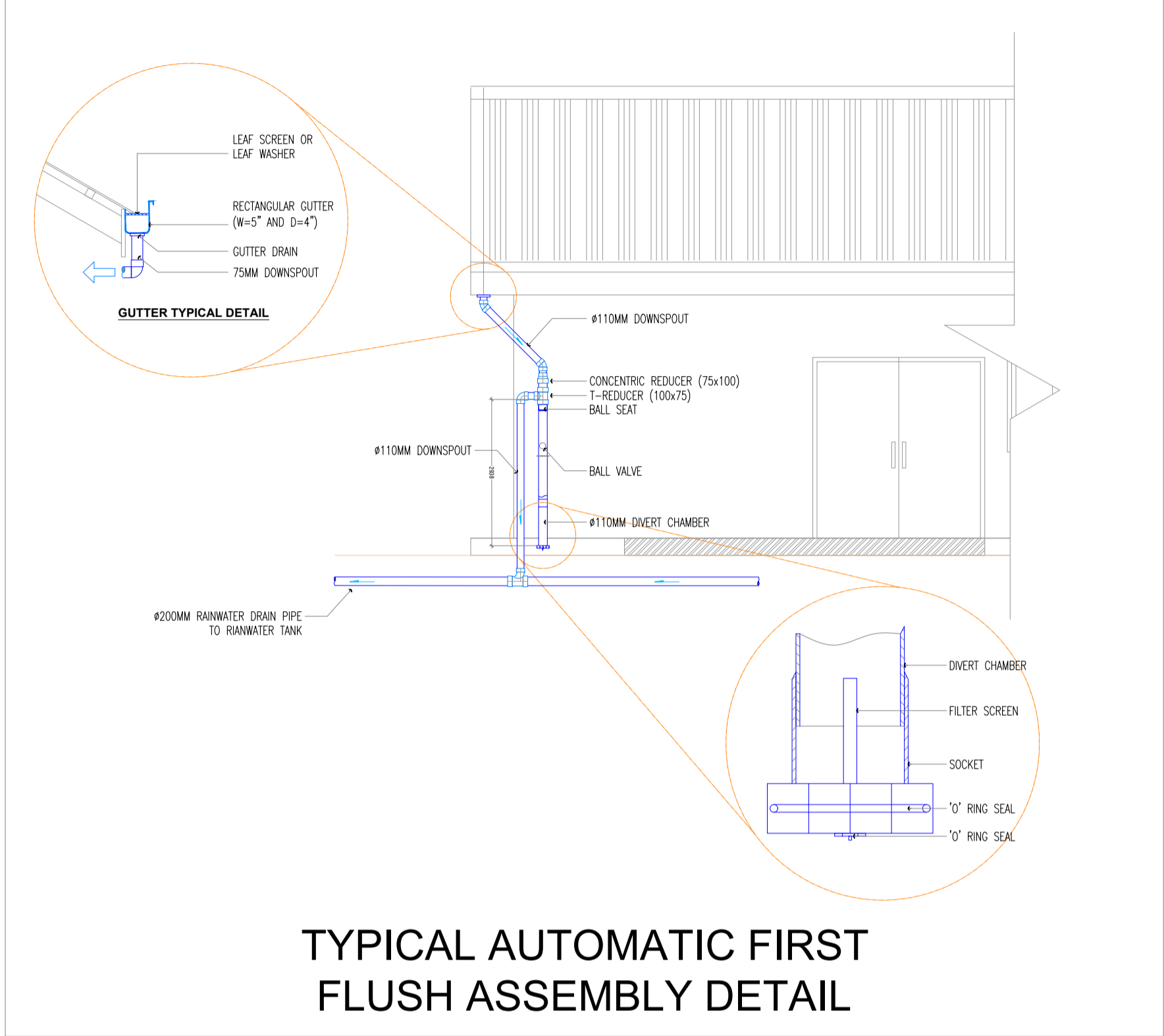
ABLUTION DETAIL

PUMPING SCHEMATIC DETAIL:



PUMPING SCHEMATIC DETAIL

TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL:



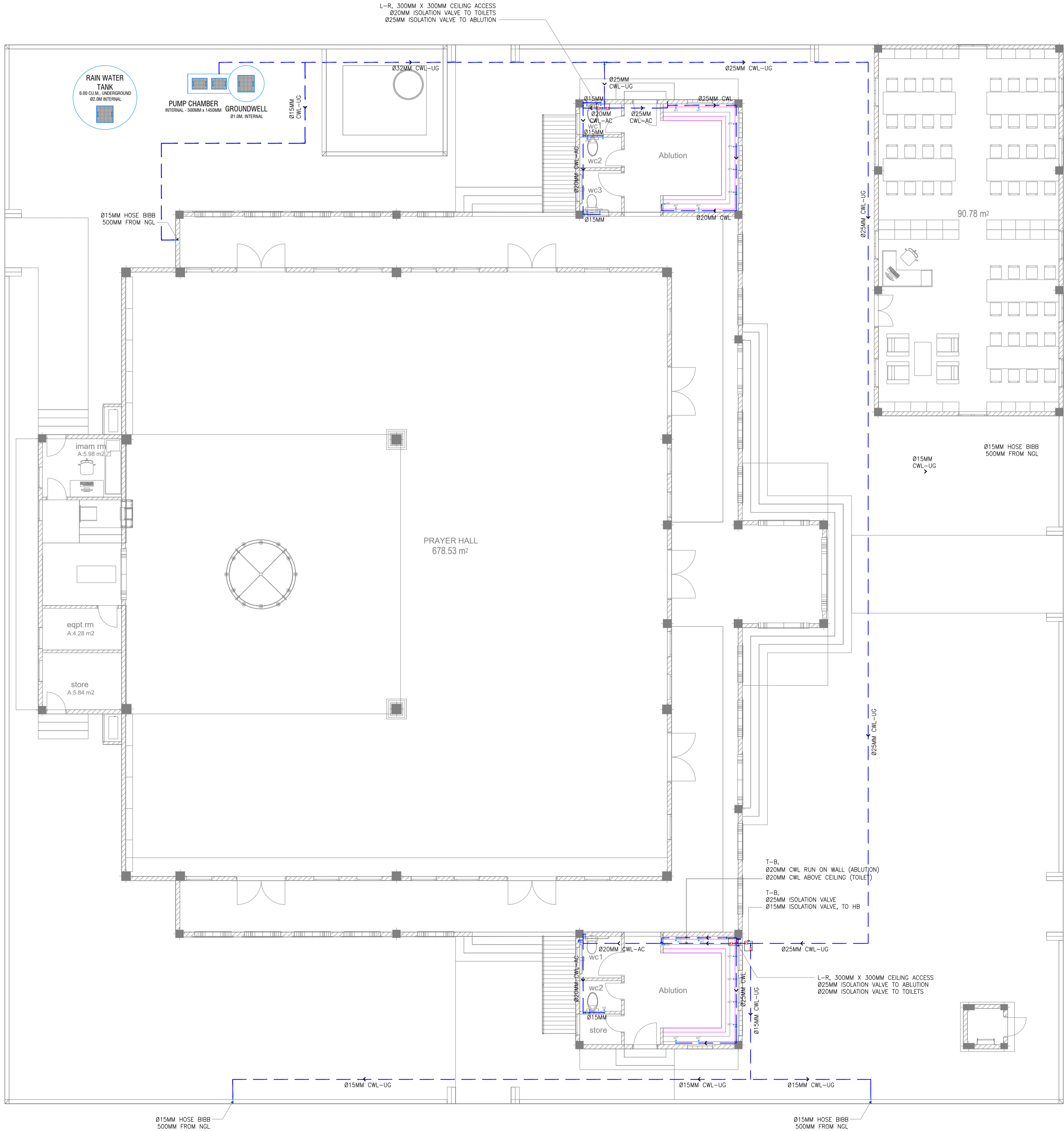
TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL

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 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

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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
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DRAWING TITLES

GROUND FLOOR

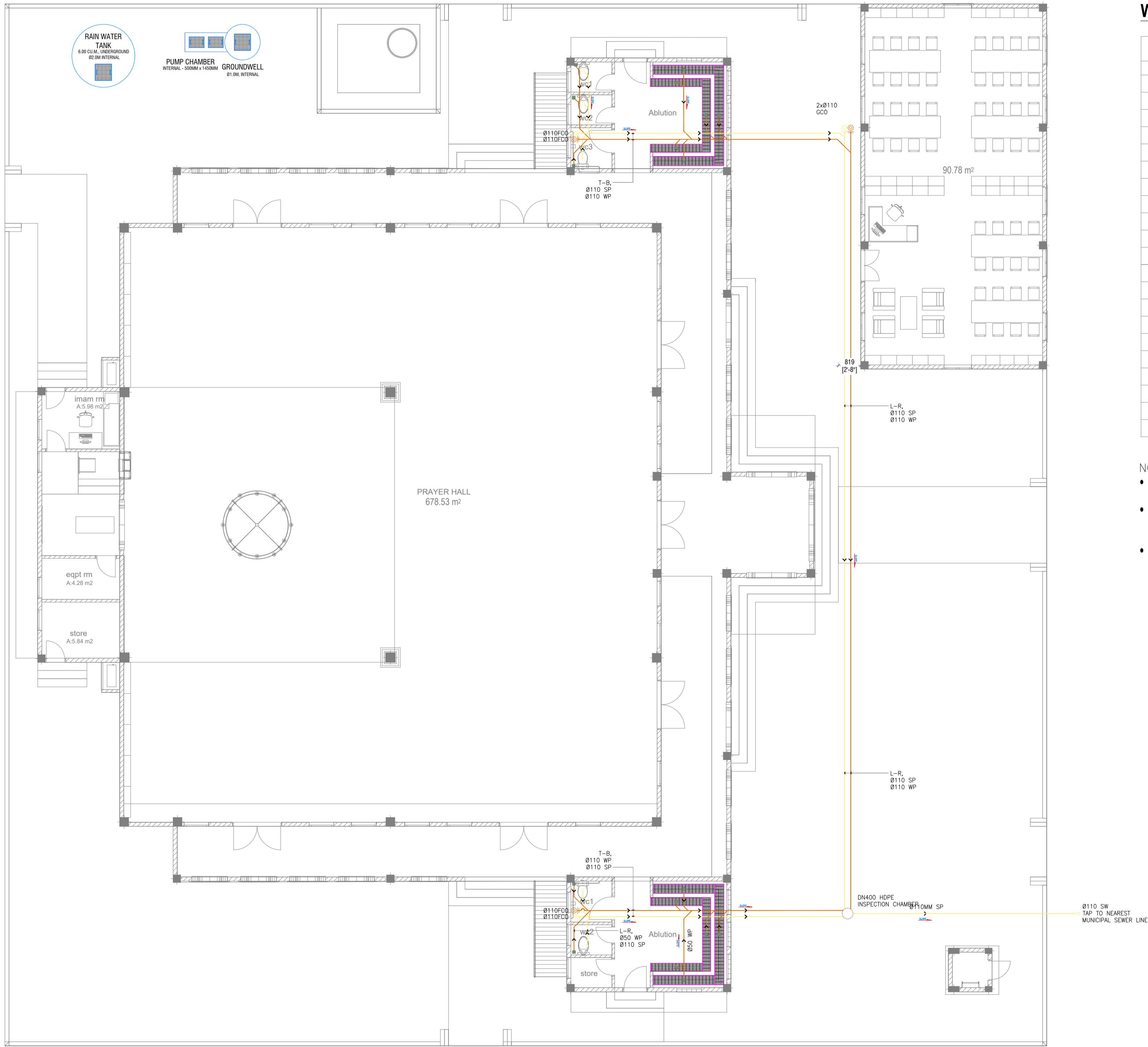
WATER SUPPLY LAYOUT

SHEET SIZE	A1	SCALE	1:100
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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.

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PROJECT NAME

PROTOTYPE MOSQUES

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MINISTRY OF ISLAMIC AFFAIRS

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DD - DETAIL DESIGN

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	29 MAY 2024

DRAWING TITLES

GROUND FLOOR

WASTE PIPE DRAINAGE

LAYOUT

SHEET SIZE	A1	SCALE	1:100
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SHEET NO.

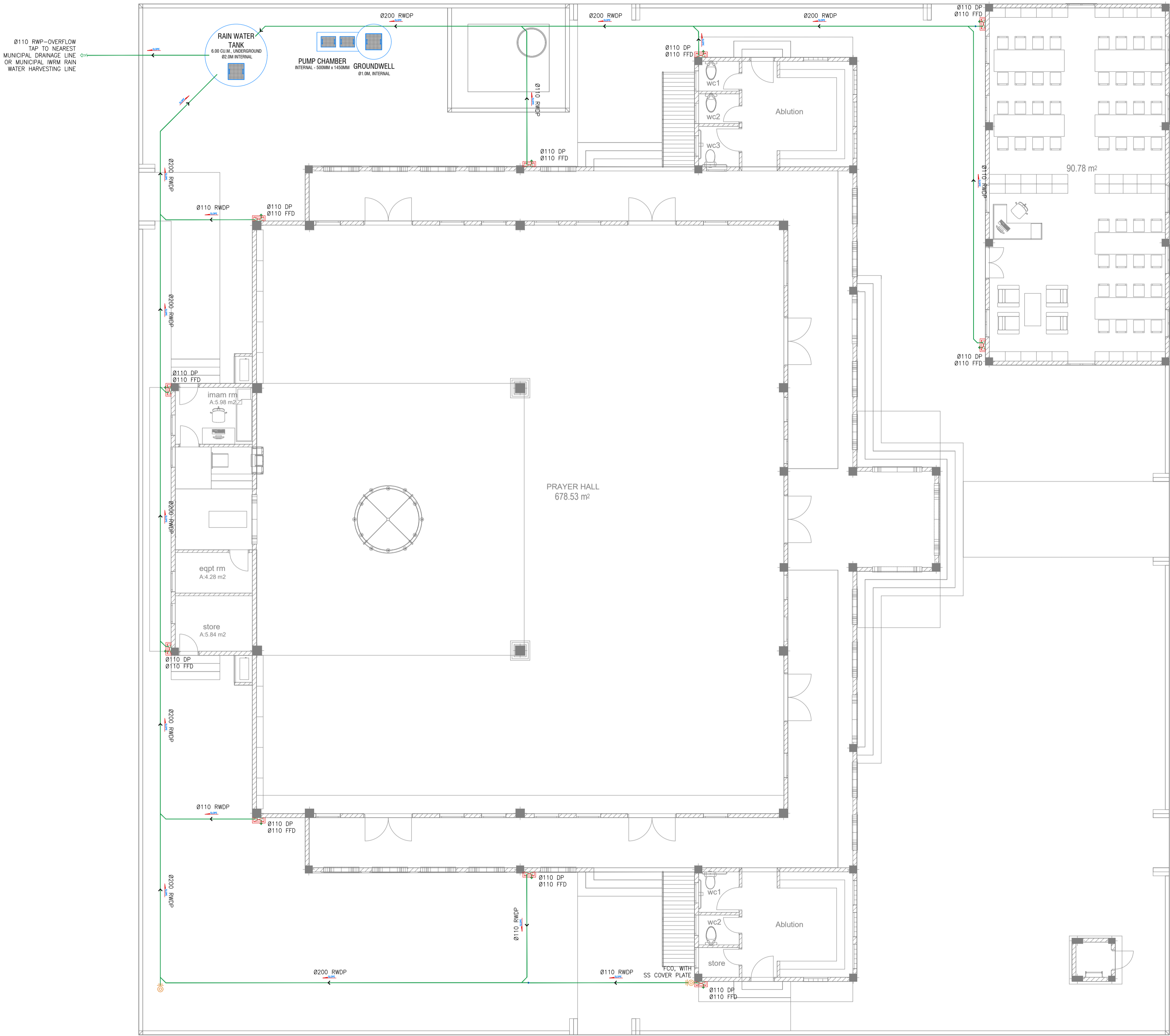
PL - 04

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GROUND FLOOR_WASTE PIPE DRAINAGE 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
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



GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.

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

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- 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
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CONSULTANT PROJECT NO.	R24002MIA
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CIVIL ENGINEER	ZAINAL A. ALI RASHEED
MEP ENGINEER	MARK KENN BRITO
INT. DESIGNER	
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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

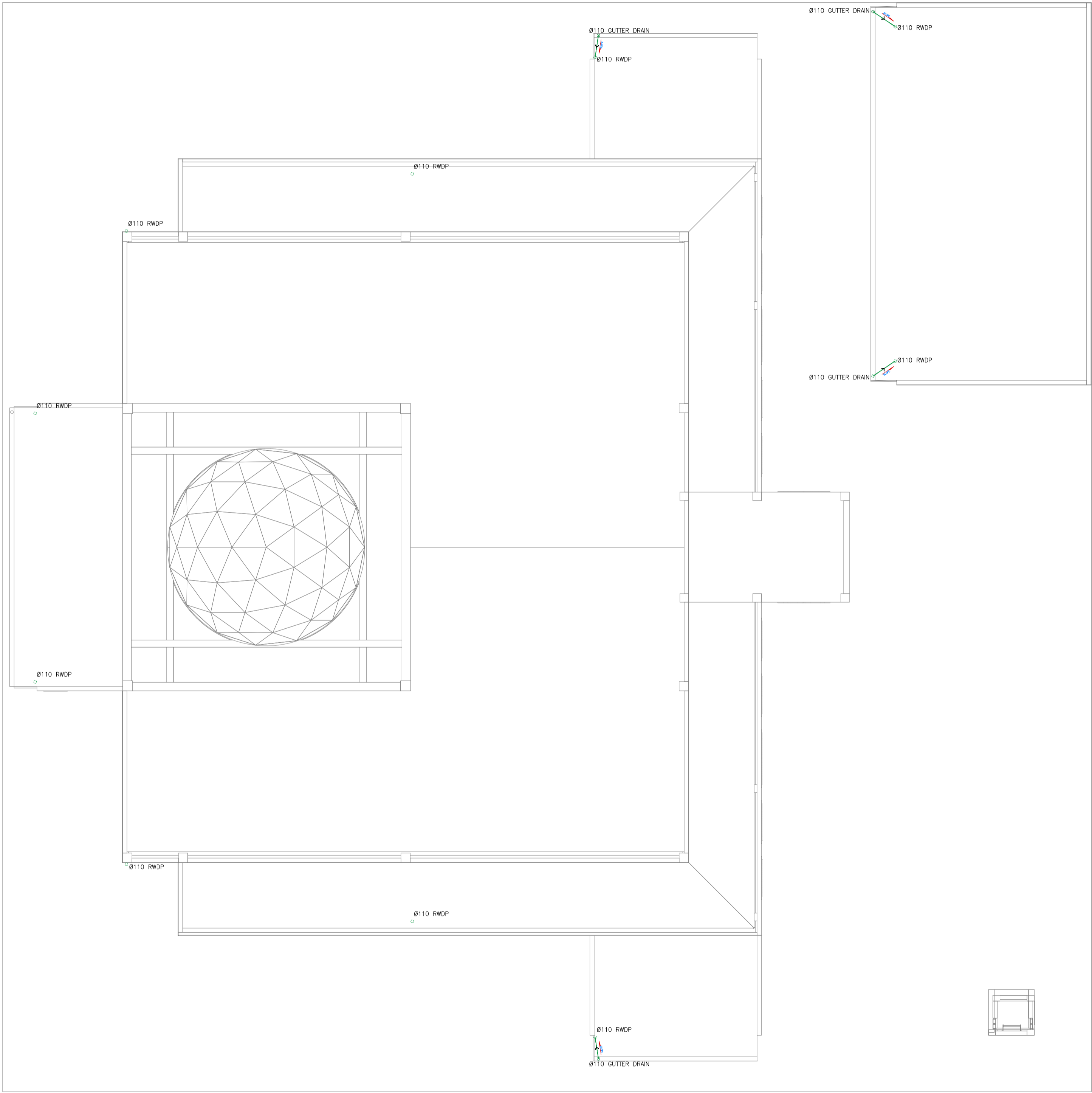
BUILDING NAME	MOSQUE FOR 700 PAX
BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES	GROUND FLOOR RAINWATER DRAINAGE AND HARVESTING LAYOUT
SHEET SIZE	A1
SCALE	1:100
SHEET NO.	PL - 05

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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
 - ALL SLOPES FOR SEWER HORIZONTAL BRANCHES SHALL BE MAINTAINED AT 2% MINIMUM UNLESS OTHERWISE SPECIFIED.

GENERAL NOTES

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

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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

DD - DETAIL DESIGN

BUILDING NAME

MOSQUE FOR 700 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES

ROOF

RAINWATER DRAINAGE AND HARVESTING LAYOUT

SHEET SIZE	A1	SCALE	1:100
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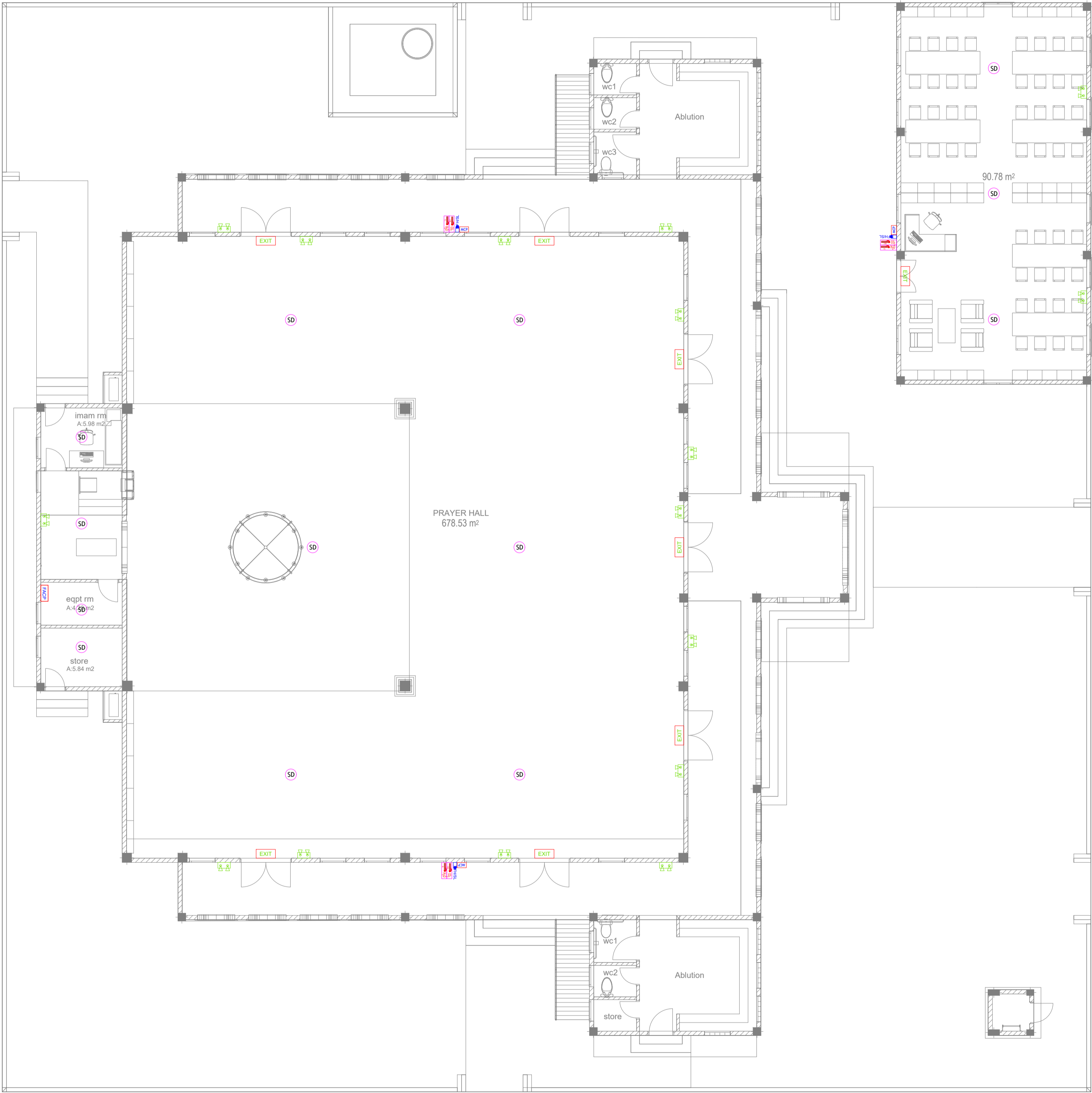
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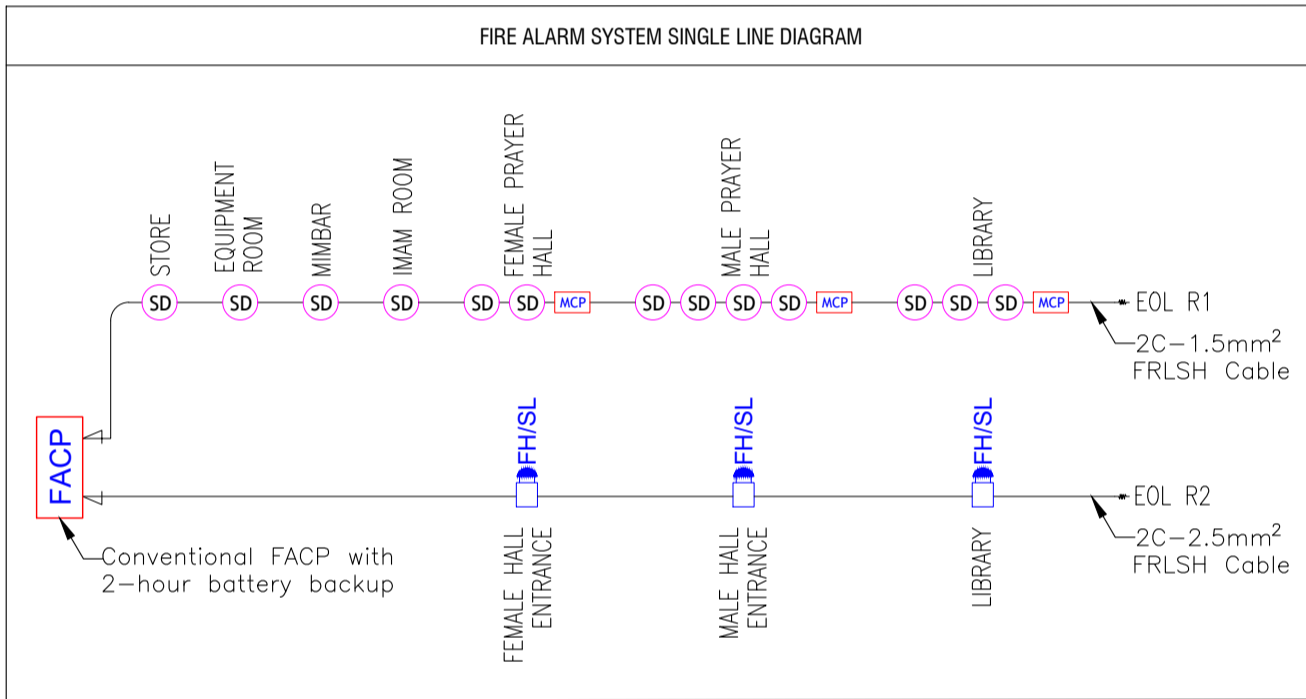
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GROUND FLOOR_FDP LAYOUT

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)
 - FAS FIRE ALARM SOUNDER W/ STROBE LIGHT 95dB
 - CO₂ EXTINGUISHER (LOAD: 2KG) IN WEATHER PROOF ENCLOSURE (TYP.)
 - H₂O EXTINGUISHER (LOAD: 9L) IN WEATHER PROOF ENCLOSURE (TYP.)
 - 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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CONSULTANT PROJECT NO. R24002MIA

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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)

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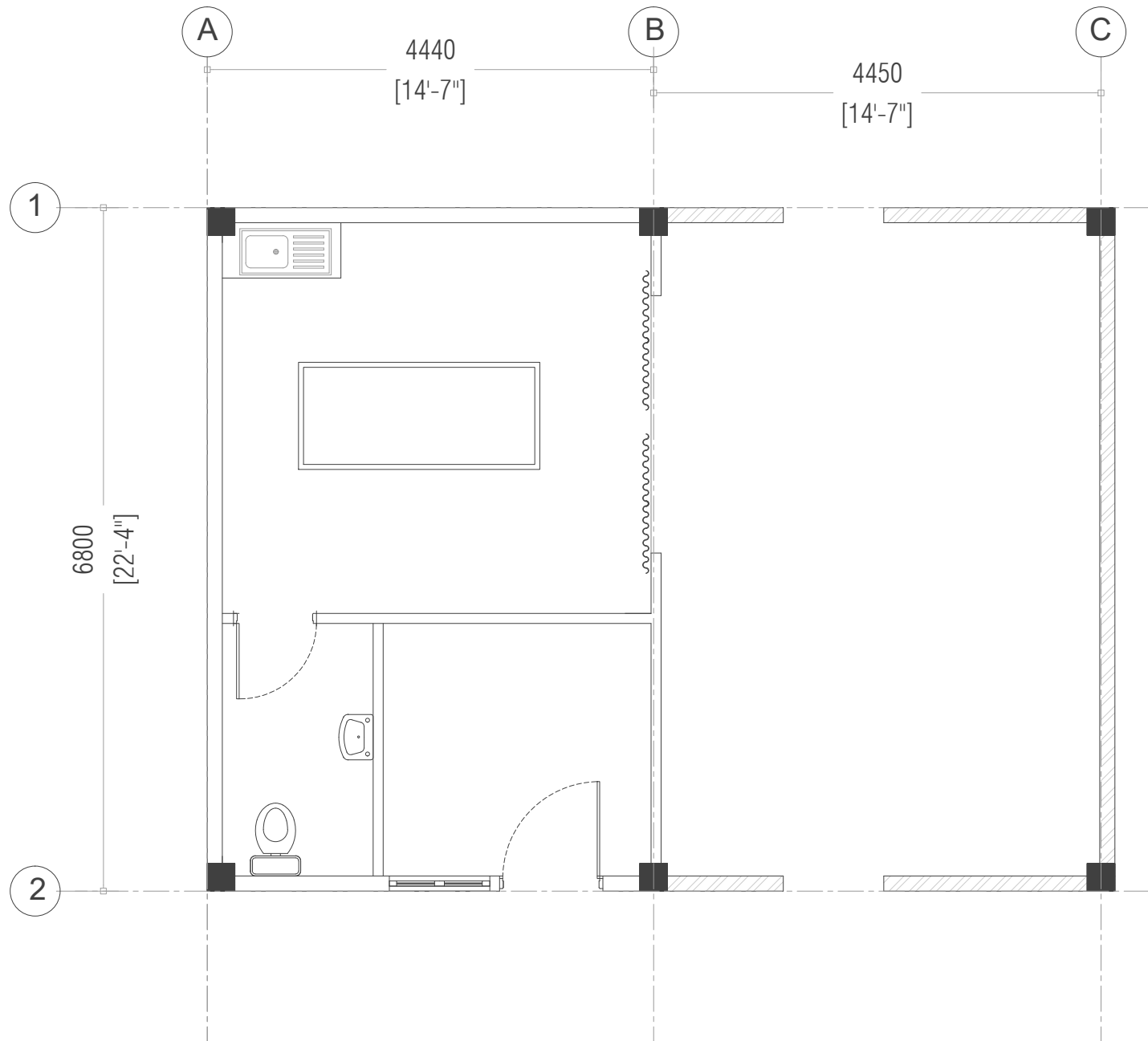
BUILDING/STRUCTURE NO. ISSUE DATE
29 MAY 2024

DRAWING TITLES
**GROUND FLOOR
FIRE DETECTION AND
PROTECTION LAYOUT**

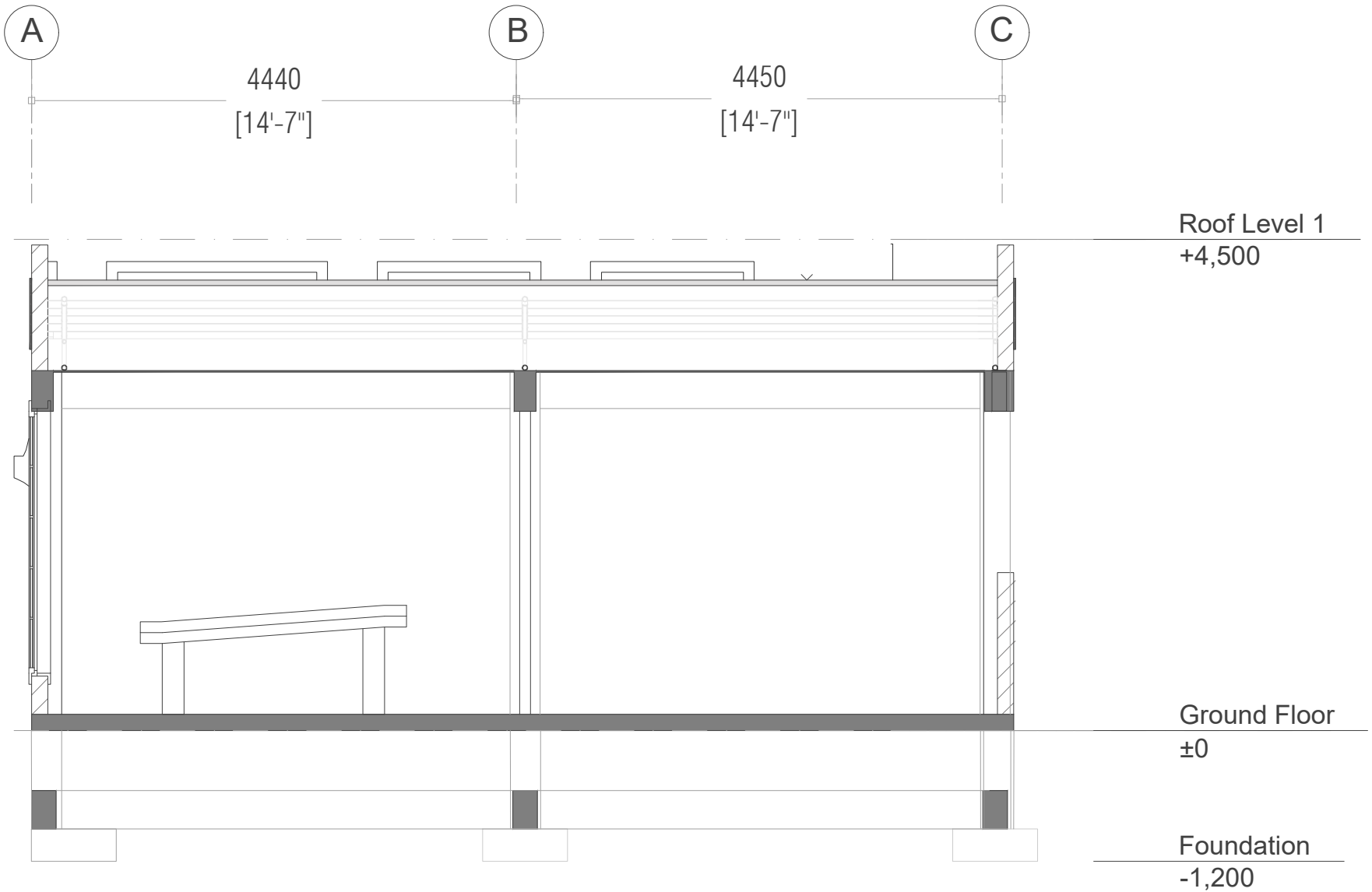
SHEET SIZE A1 SCALE 1:100

SHEET NO.
FDP - 01

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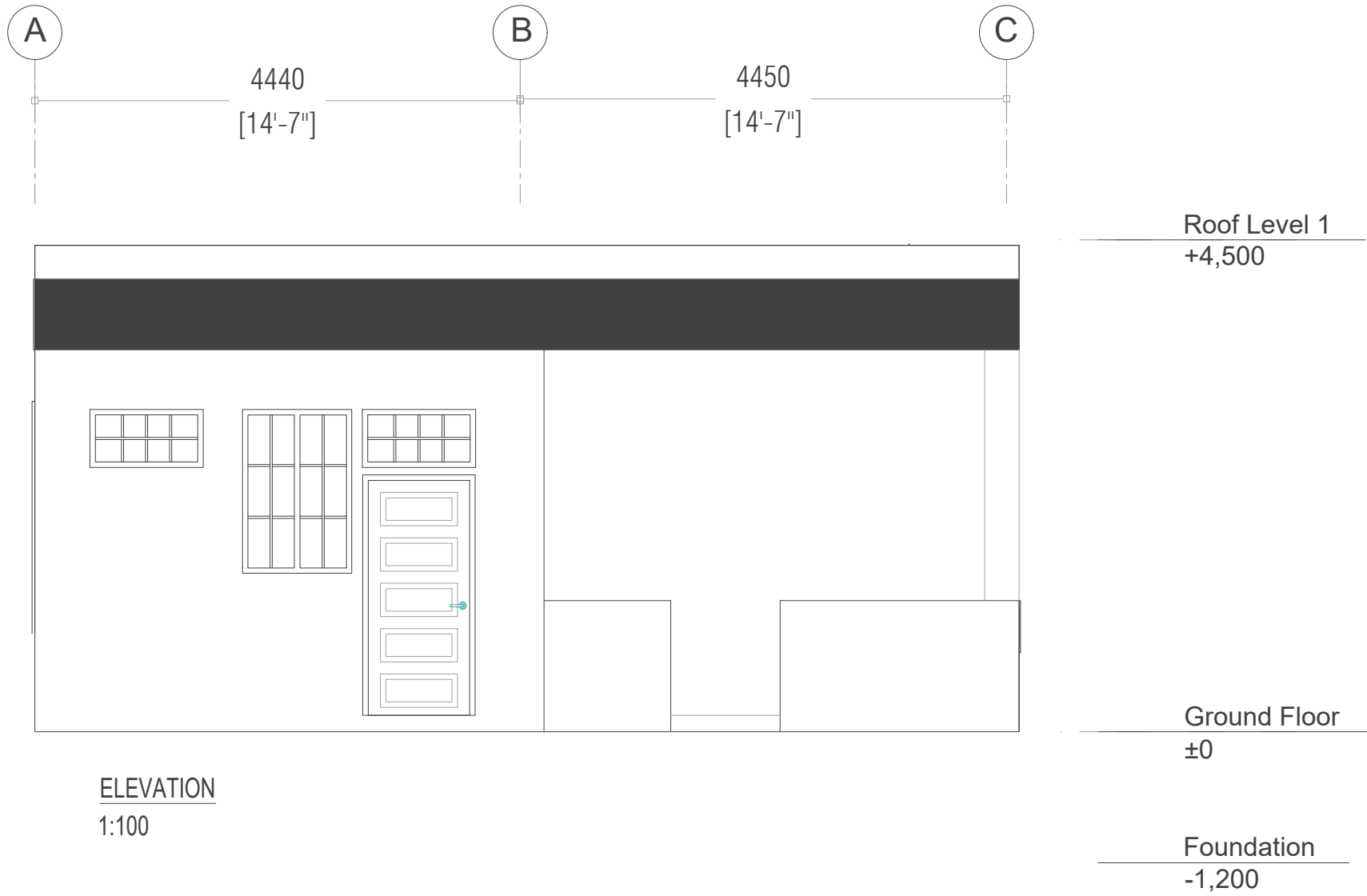


FLOOR PLAN
1:100



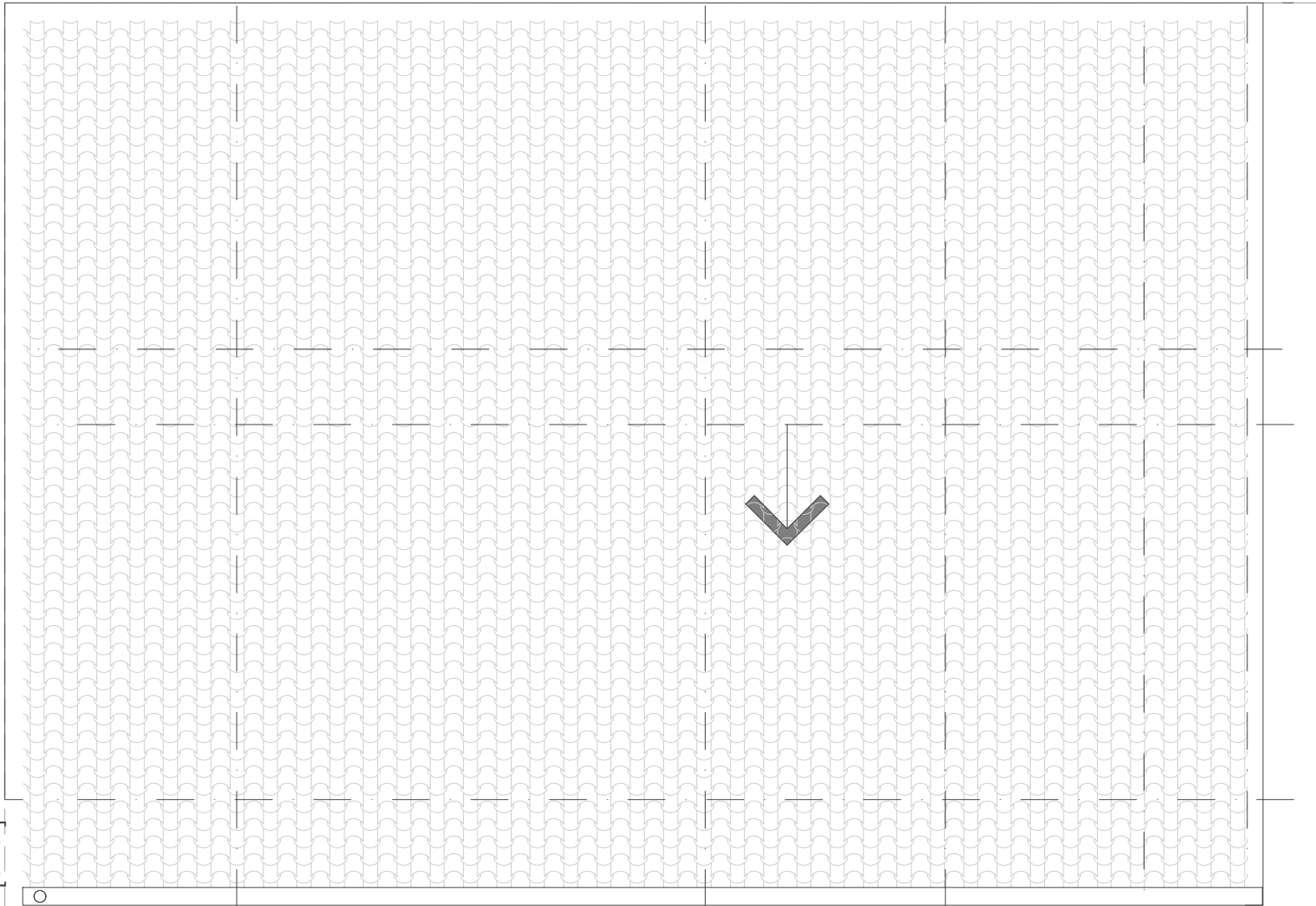
SECTIONAL VIEW

1:100

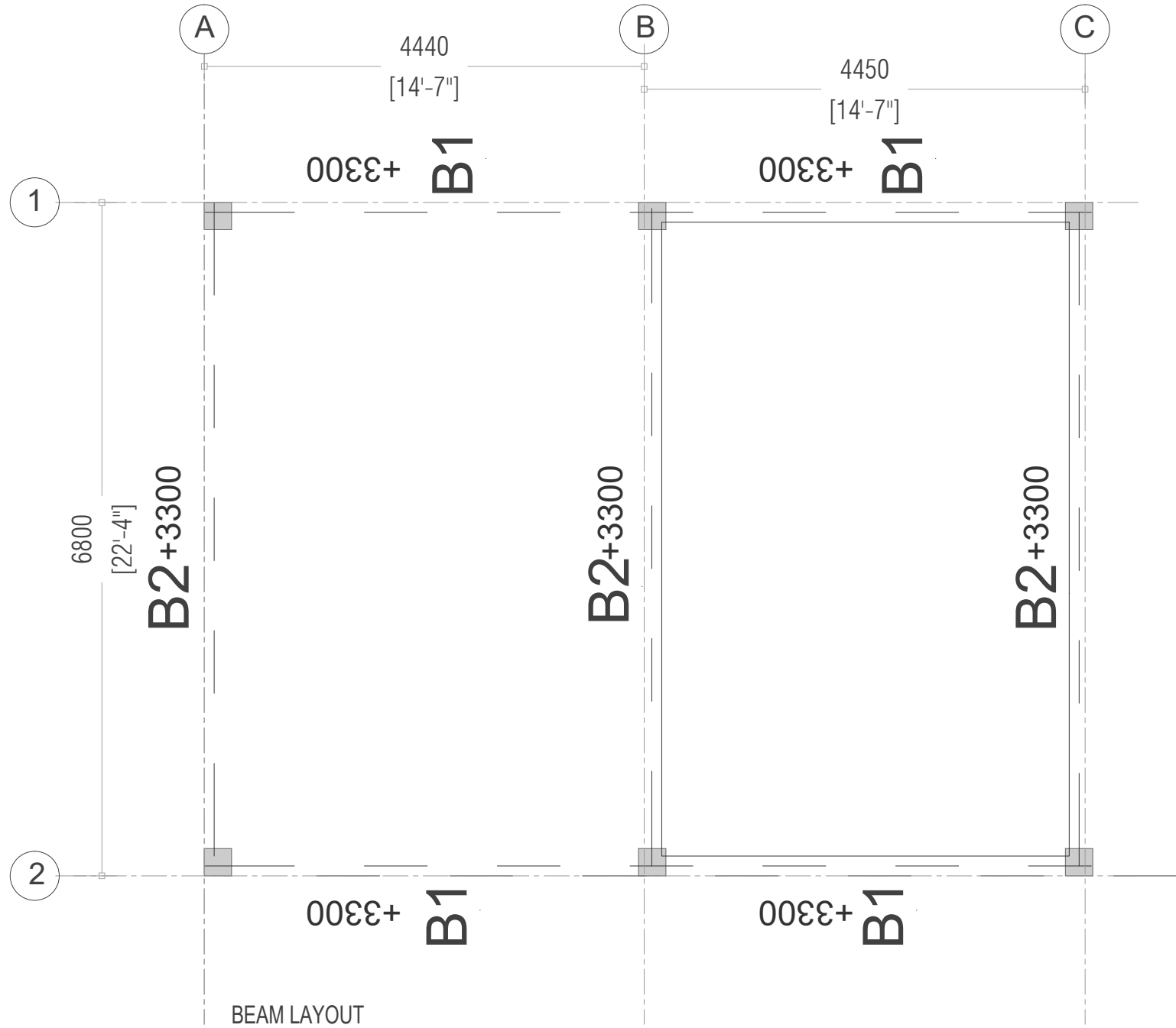


ELEVATION
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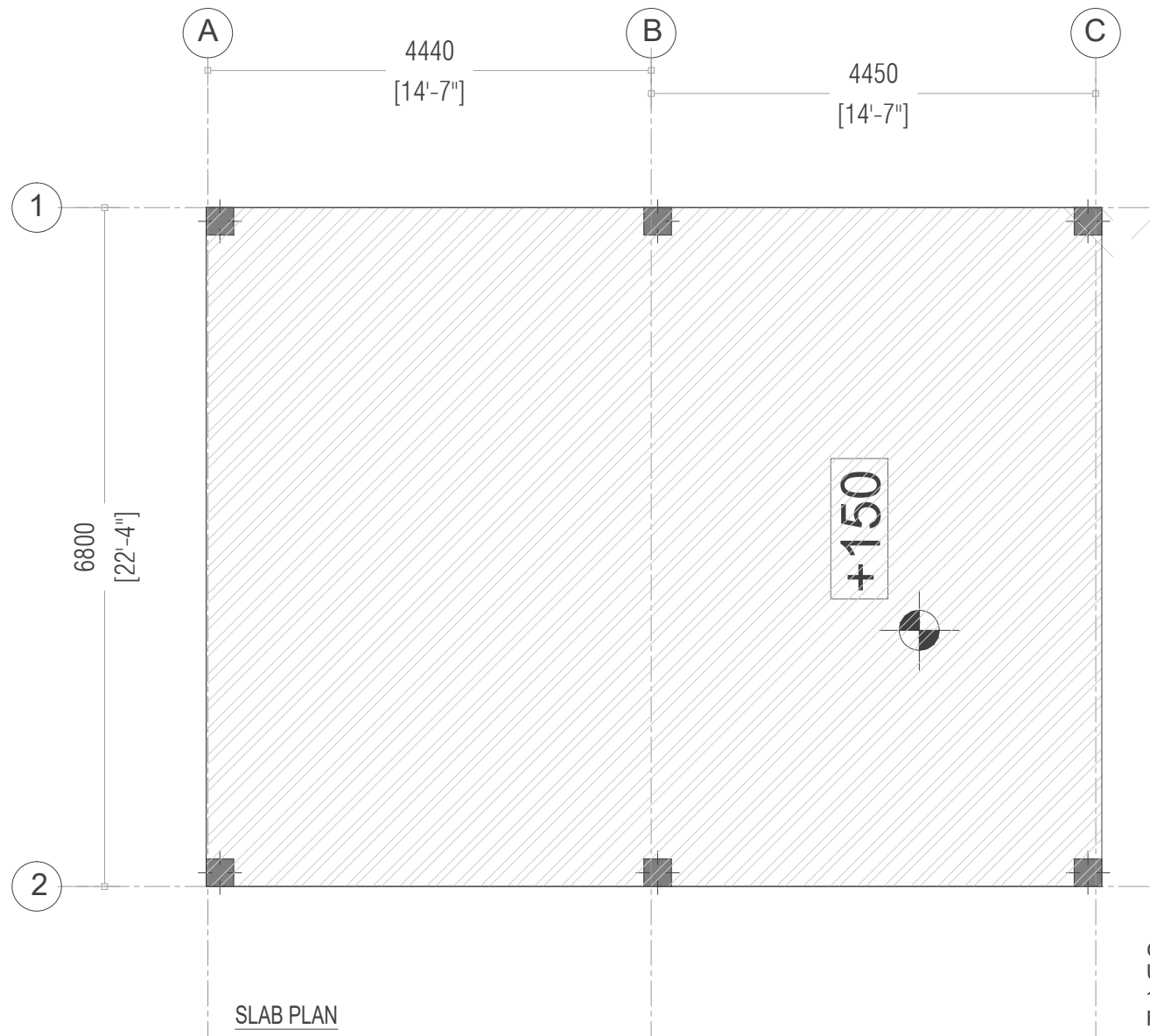
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ROOFING PLAN
1:100

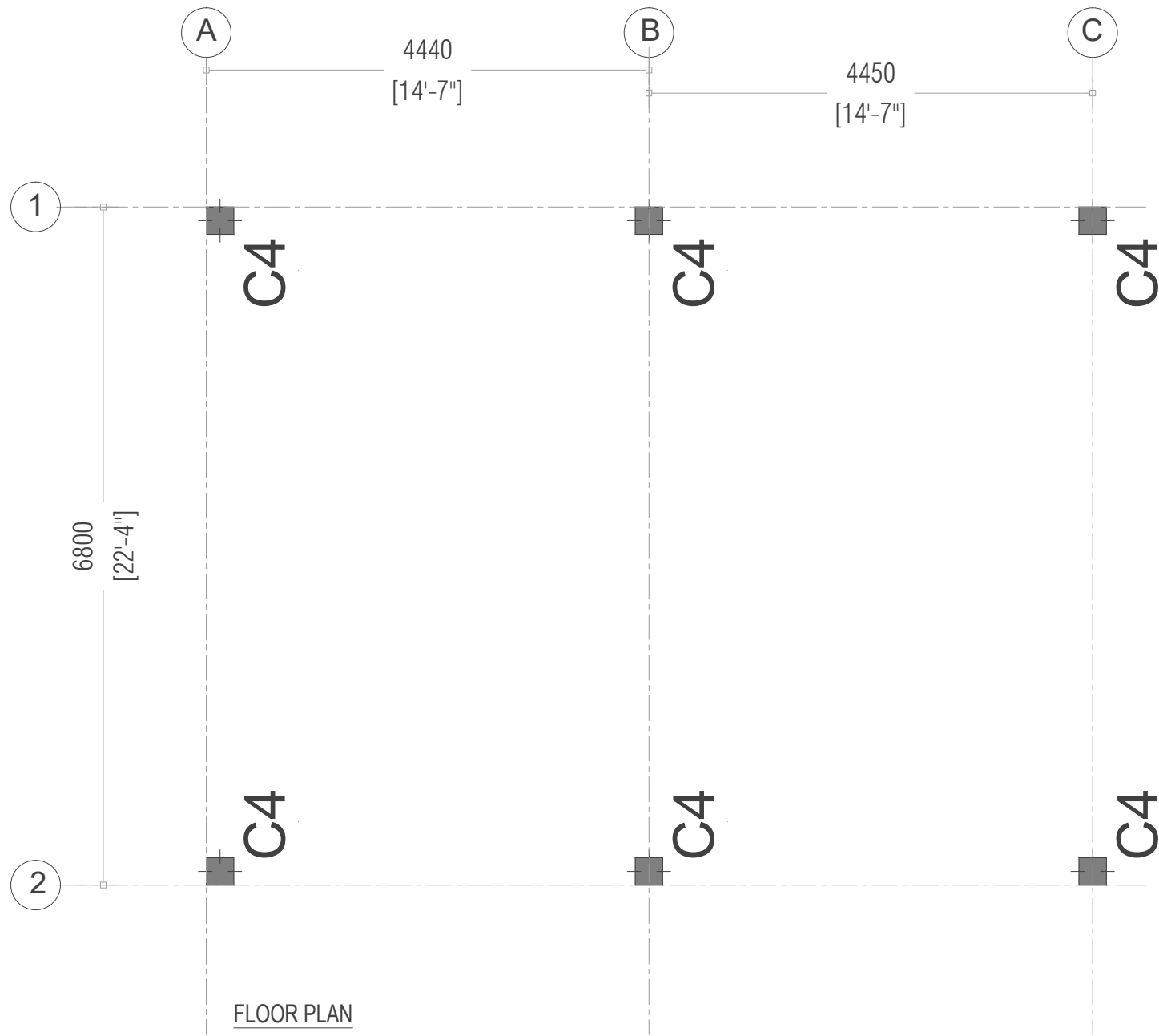


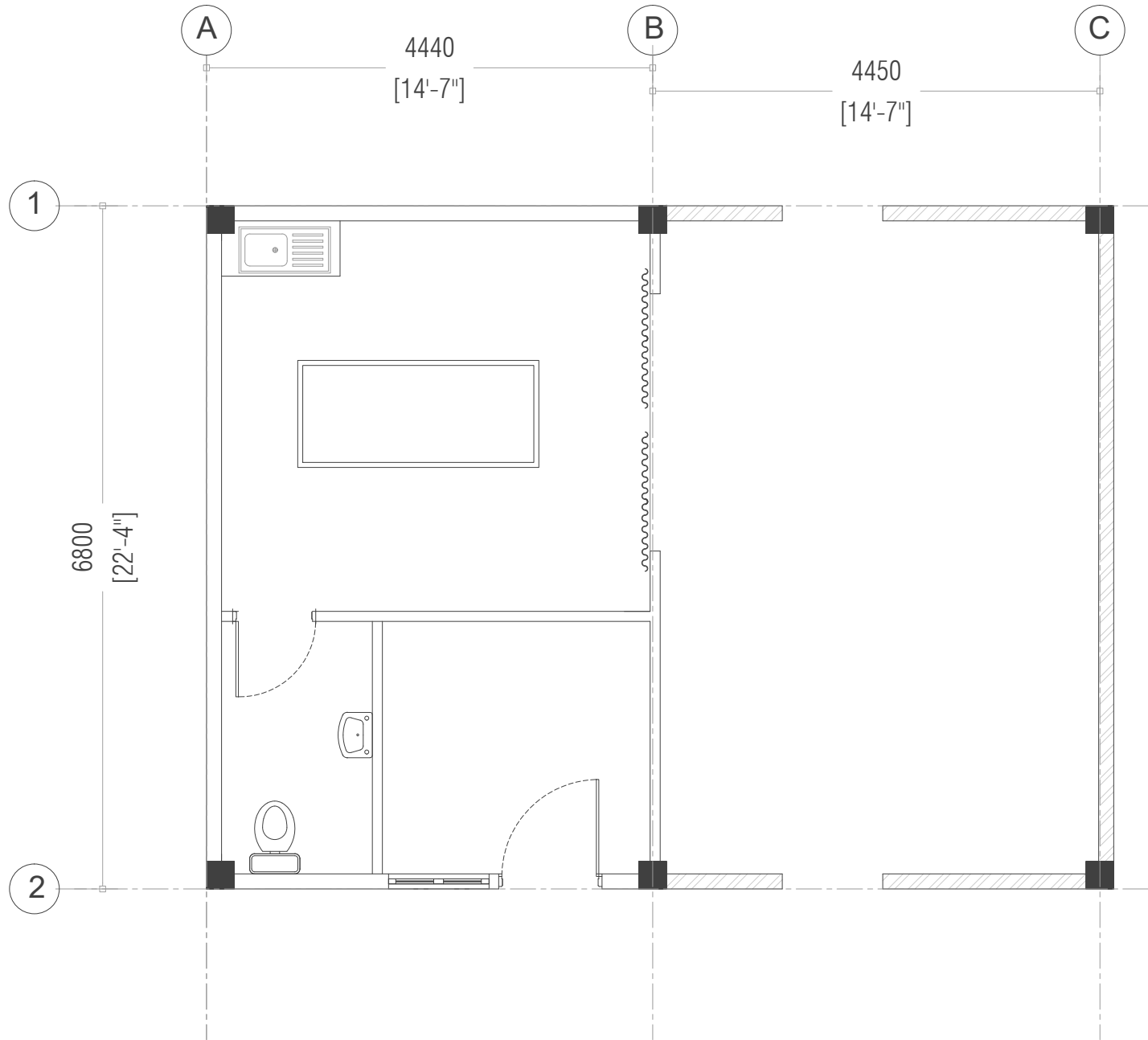
BEAM LAYOUT
1:100



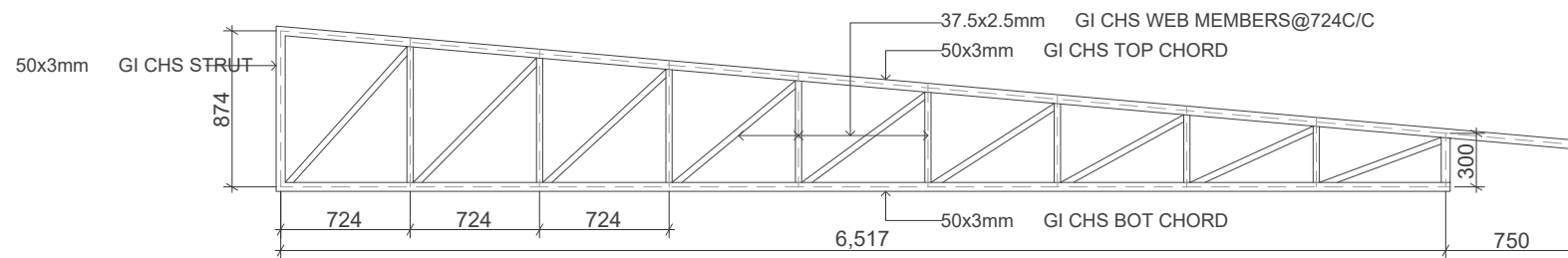
SLAB PLAN
1:100

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

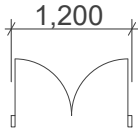
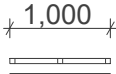
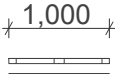
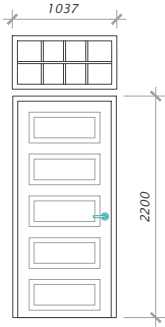
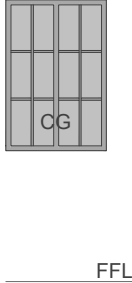
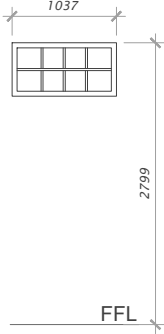




FLOOR PLAN
1:100



TRUSS T3





2D Symbol			
View from Side Opposite...			
Element ID	D6	W4	W5
Element Type	Alum. Glazed Door	Alum. Glazed Window	Alum. Glazed Window
Remarks			
Location	Library	Library	Library
Quantity	1	6	5
Area (m2)	3.36	1.5	2.45

FLOOR PLAN
1:100



GENERAL NOTES :

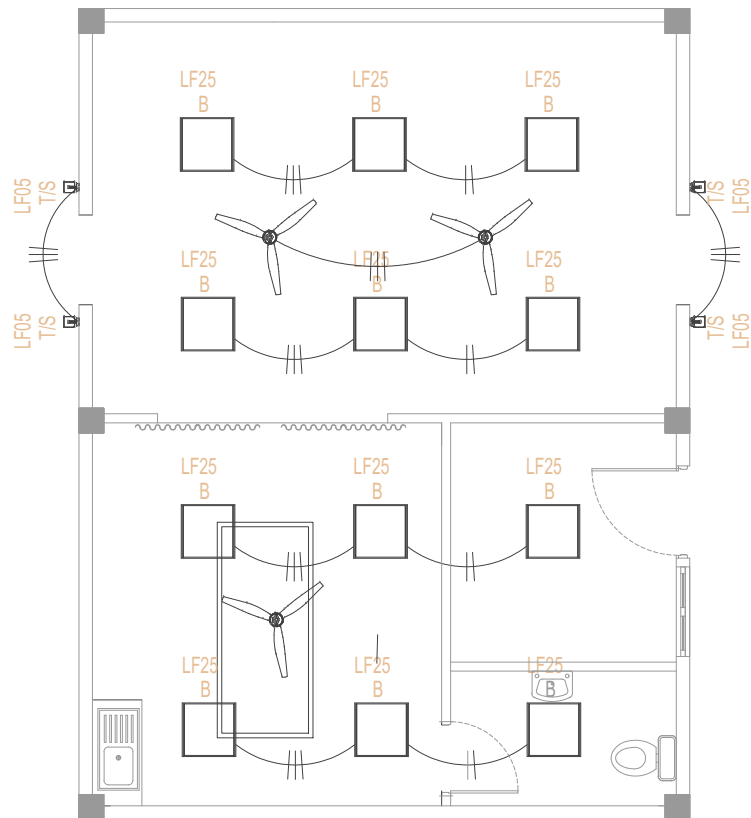
1. ALL LIGHTS & POWER POINTS SHALL BE CONNECTED TO THEIR RESPECTIVE CIRCUIT HOME RUN AS PER THE LIGHTING & POWER LAYOUT.
2. CONTRACTOR TO PREPARE SHOP DRAWINGS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR ALL LIGHTS, SWITCHES, DB, PANEL BOARD, EAC, REQUIRED ISOLATORS, ACV SERVICES AND OTHER RELEVANT LIGHTING AND POWER POINT LOCATIONS INCLUDING CONDUIT AND WIRING AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION.
3. 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.
4. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ELECTRICAL POWER REQUIREMENTS AND POWER POINTS FOR MECHANICAL VENTILATION DEVICES TO ELECTRICAL CONTRACTOR.
5. 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
6. ALL ELECTRICAL COMPONENT CONNECTED TO THEIR RESPECTIVE DB.
7. POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED OUTDOOR.
8. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ACMV CONTRACTOR FOR POWER REQUIREMENTS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL OTHER SERVICES.
10. CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY CHANGE, REROUTE RELOCATE AS PER SITE CONDITION AND SUBMIT SHOP DRAWINGS FOR APPROVAL.
11. CONTRACTOR TO PROVIDE DETAIL SHOP DRAWINGS PRIOR TO INITIATE WORKS ON SITE.

LEGEND (POWER)

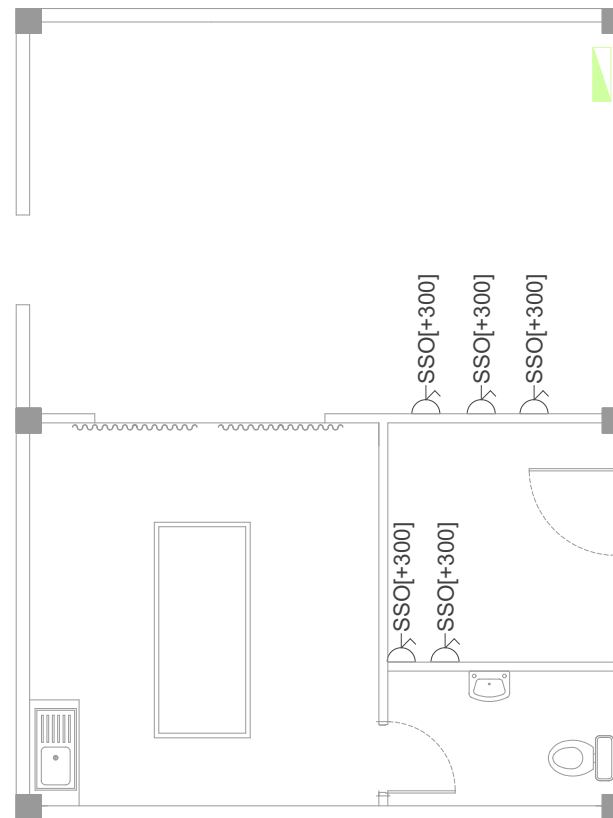
SYMBOL	CODE	DESCRIPTION
	SSO	13A, SWITCH TYPE, SINGLE POWER OUTLET
	TSO	13A, SWITCH TYPE, DOUBLE POWER OUTLET
	AC	15A, SWITCH TYPE, SINGLE POWER OUTLET
	USB	2 NO. USB CHARGER PORT

LEGEND (LIGHTING)

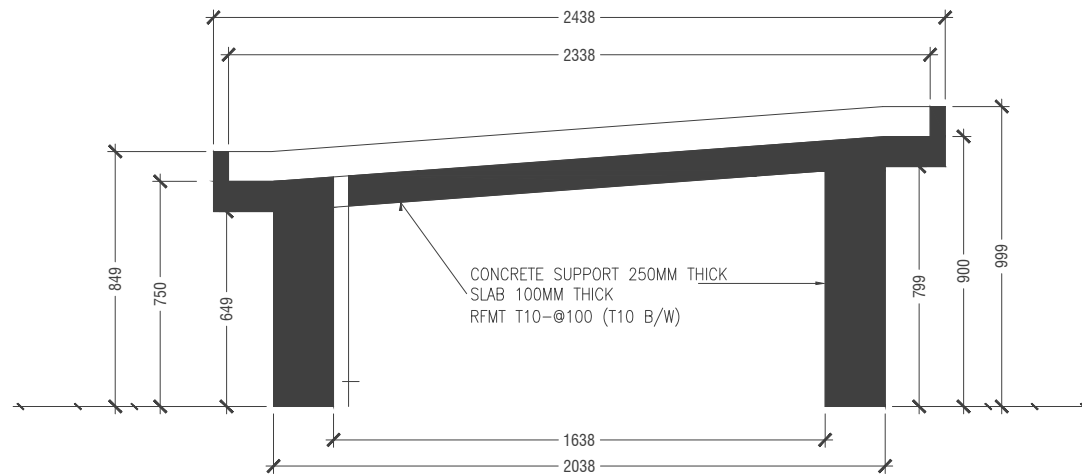
SYMBOL	CODE	DESCRIPTION
	LF05	17W, 230V, 4000K, WALL LIGHT,IP55
	LF25	18W, 230V, 3000K, CEILING MOUNTED RECESSED LIGHT



GROUND FLOOR_LIGHTING LAYOUT



GROUND FLOOR_POWER LAYOUT



DETAIL -01