

Prototype Mosque : 500 pax  
Client: Ministry of Islamic Affairs

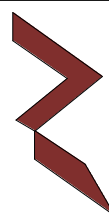


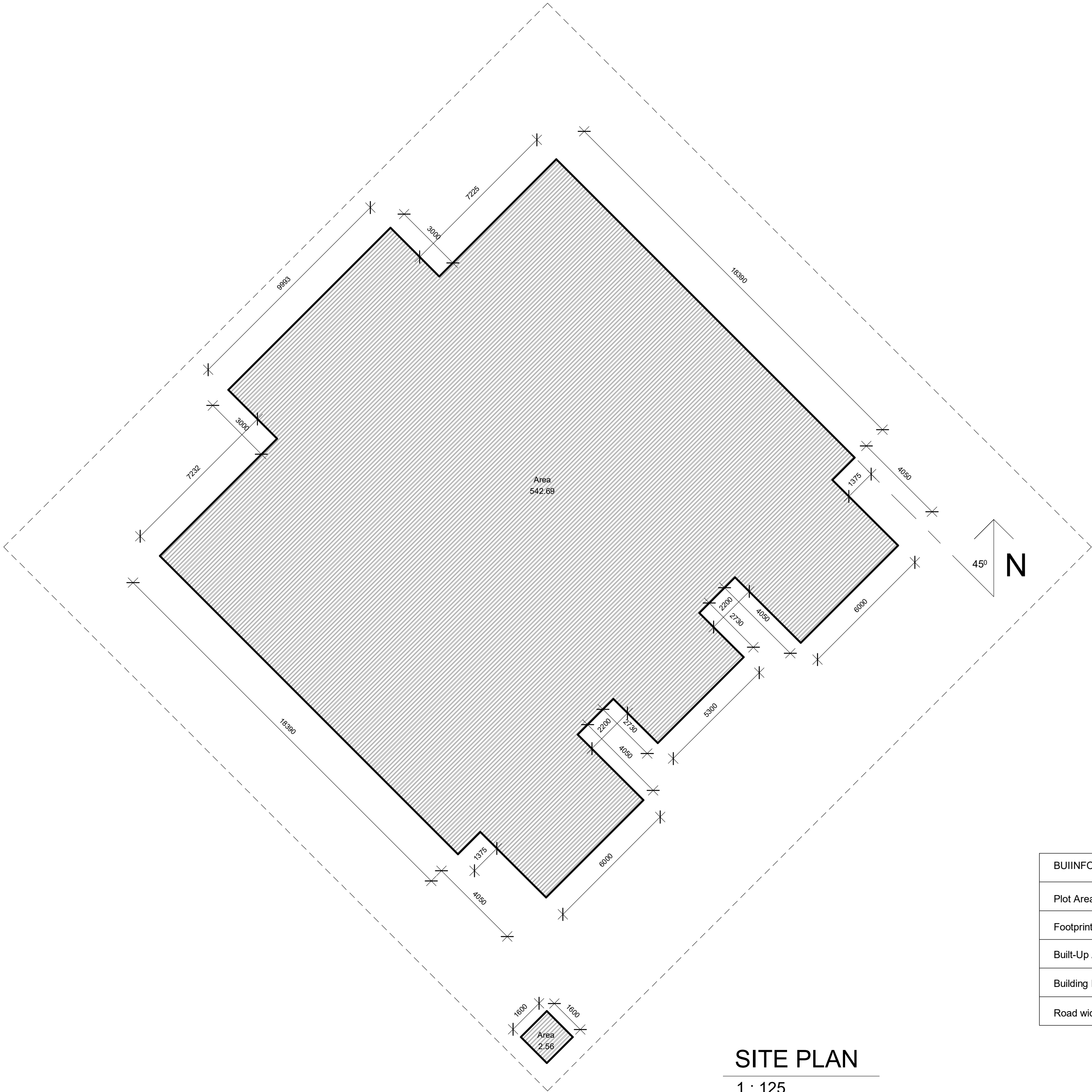
RIYAN PRIVATE LIMITED

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

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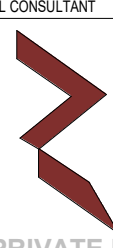
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CONSULTANT PROJECT NO. R24002MIA								
ARCHITECT	Ismail Rasheed							
CIVIL ENGINEER	Mohamed Muthalib Waleed							
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I							
INT. DESIGNER	-							
INFRA. DESIGNER	-							
DRAWN BY	Akila Dilshan							
CHECKED BY	Zunabath Abdul Majid							
APPROVED BY								
PROJECT NAME								
Prototype Mosque : 500 pax								
CLIENT	Client: Ministry of Islamic Affairs							
DEVELOPER	-							
ATOLL	---							
ISLAND	---							
LAGOON (GPS COORDINATES)	-							
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BUILDING NAME								
Mosque for 500 pax								
BUILDING/STRUCTURE NO.			ISSUE DATE					
			21/06/2024					
DRAWING TITLES								
TABLE OF CONTENTS								
SHEET SIZE		A2	SCALE					
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AR-101								
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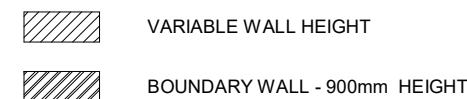
# SITE PLAN

1 : 125

BUIINFORMATIONLDING	
Plot Area	1124.13m²
Footprint Area	542.25m²
Built-Up Area	542.25m²
Building Height	7.70m
Road width	varies

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MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.I</b>			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	<b>Akila Dilshan</b>			
CHECKED BY	<b>Zunabath Abdul Majid</b>			
APPROVED BY				
PROJECT NAME				
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<b>Client: Ministry of Islamic Affairs</b>				
DEVELOPER				
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ATOLL				
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ISLAND				
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LAGOON (GPS COORDINATES)				
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BUILDING NAME				
<b>Mosque for 500 pax</b>				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			<b>21/06/2024</b>	
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<b>SITE PLAN</b>				
SHEET SIZE		A2	SCALE <b>1 : 125</b>	
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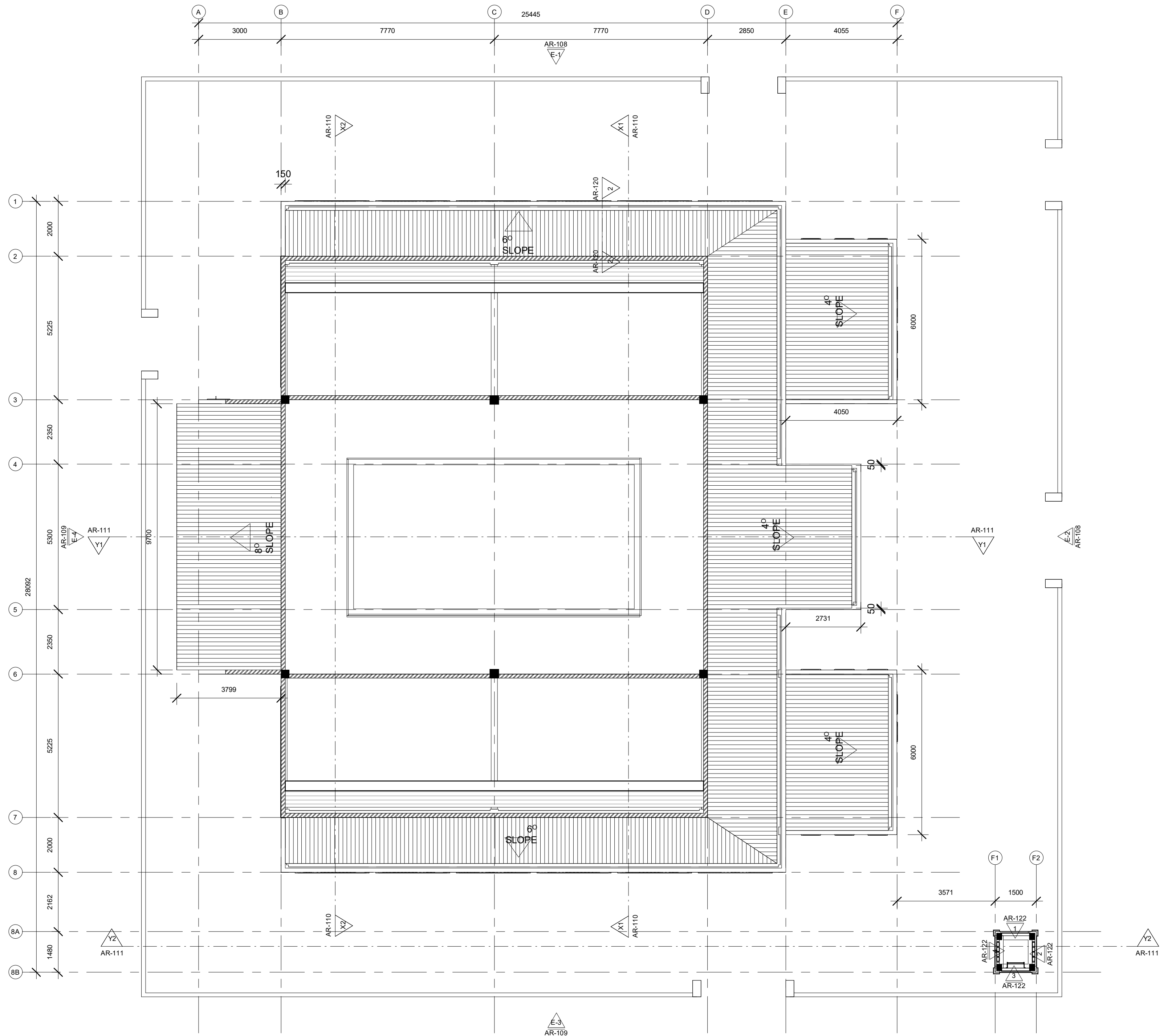





1 : 100

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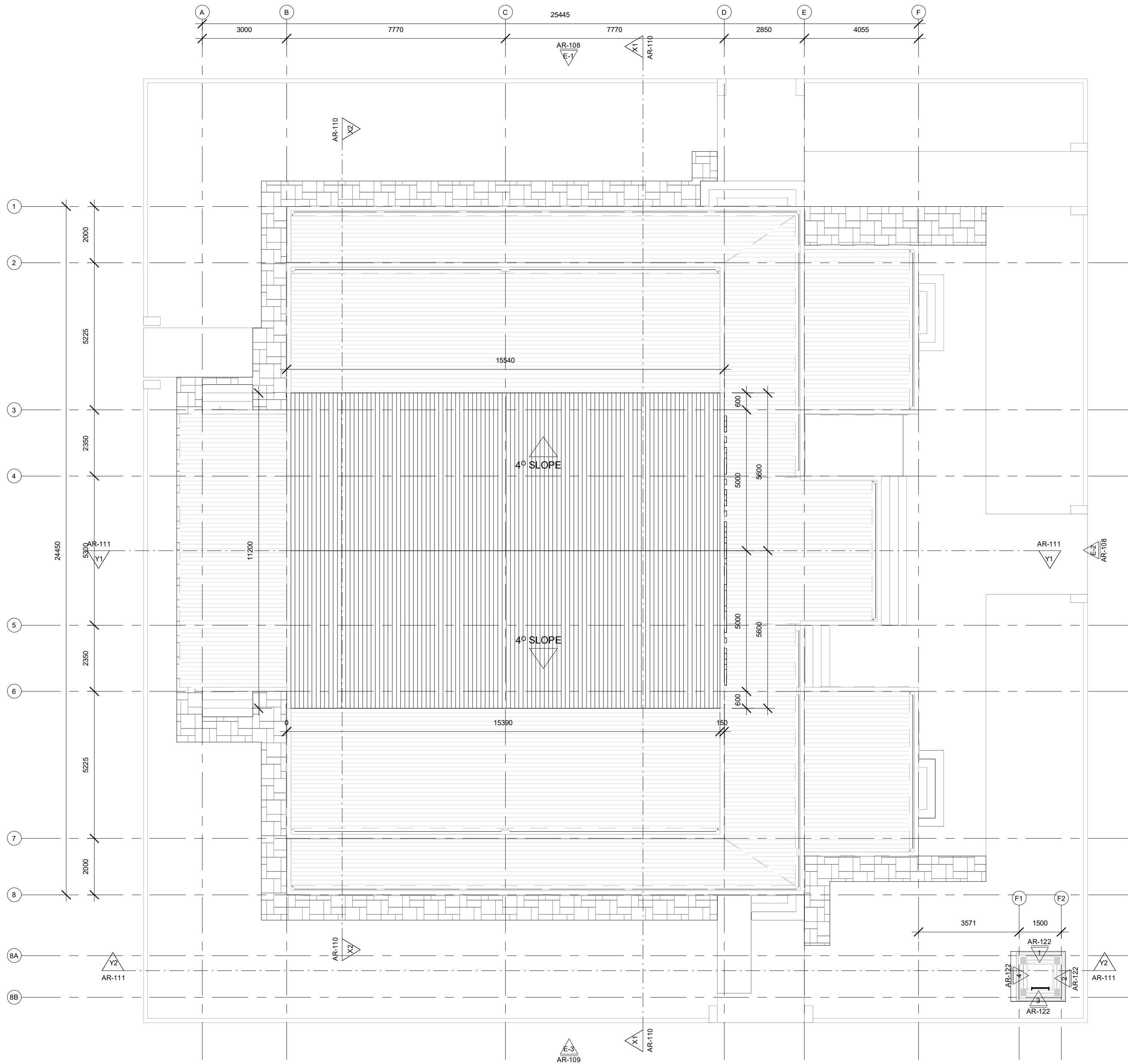


FIRST FLOOR LEVEL ROOF PLAN  
1 : 100

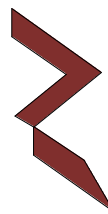
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FIRST FLOOR LEVEL ROOF PLAN				
SHEET SIZE		A2	SCALE 1 : 100	
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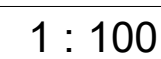
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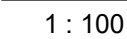
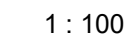
ROOF APEX LEVEL ROOF PLAN  
1 : 100

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ISLAND	---			
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		21/06/2024		
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ROOF APEX LEVEL				
SHEET SIZE		A2	SCALE 1 : 100	
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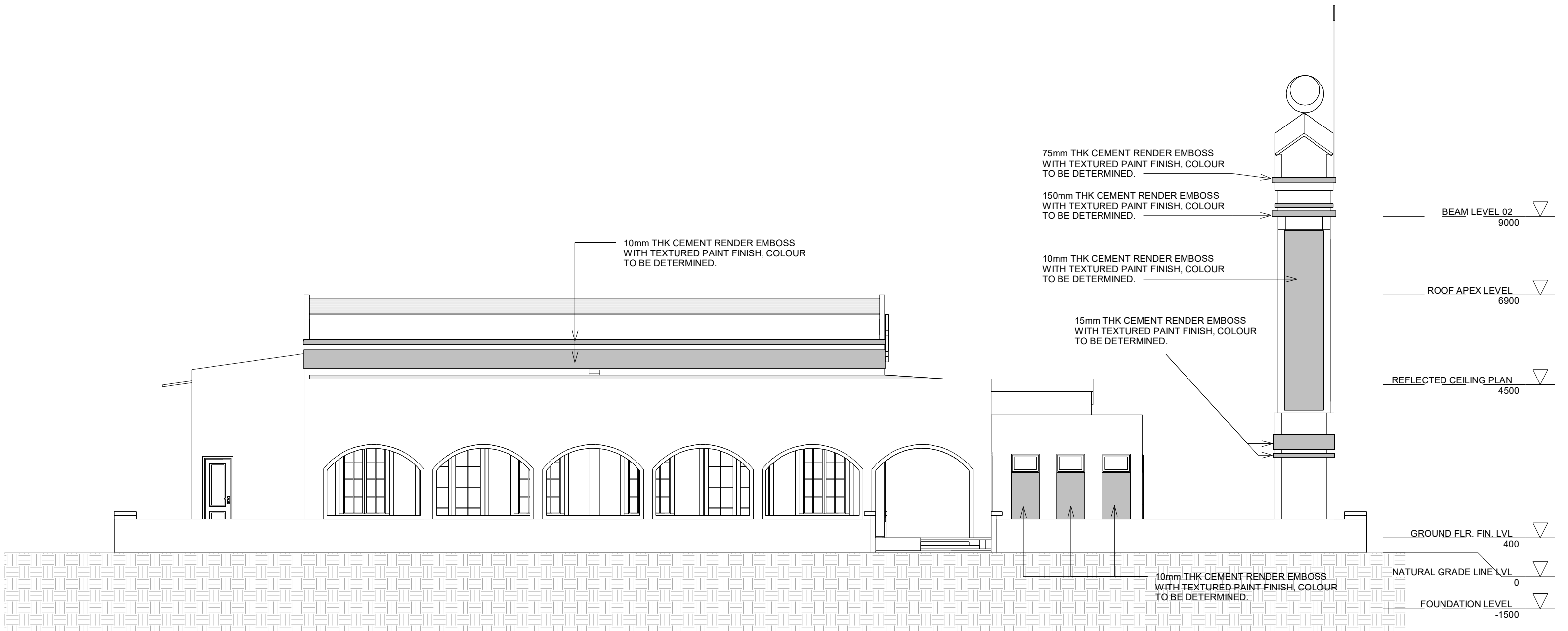




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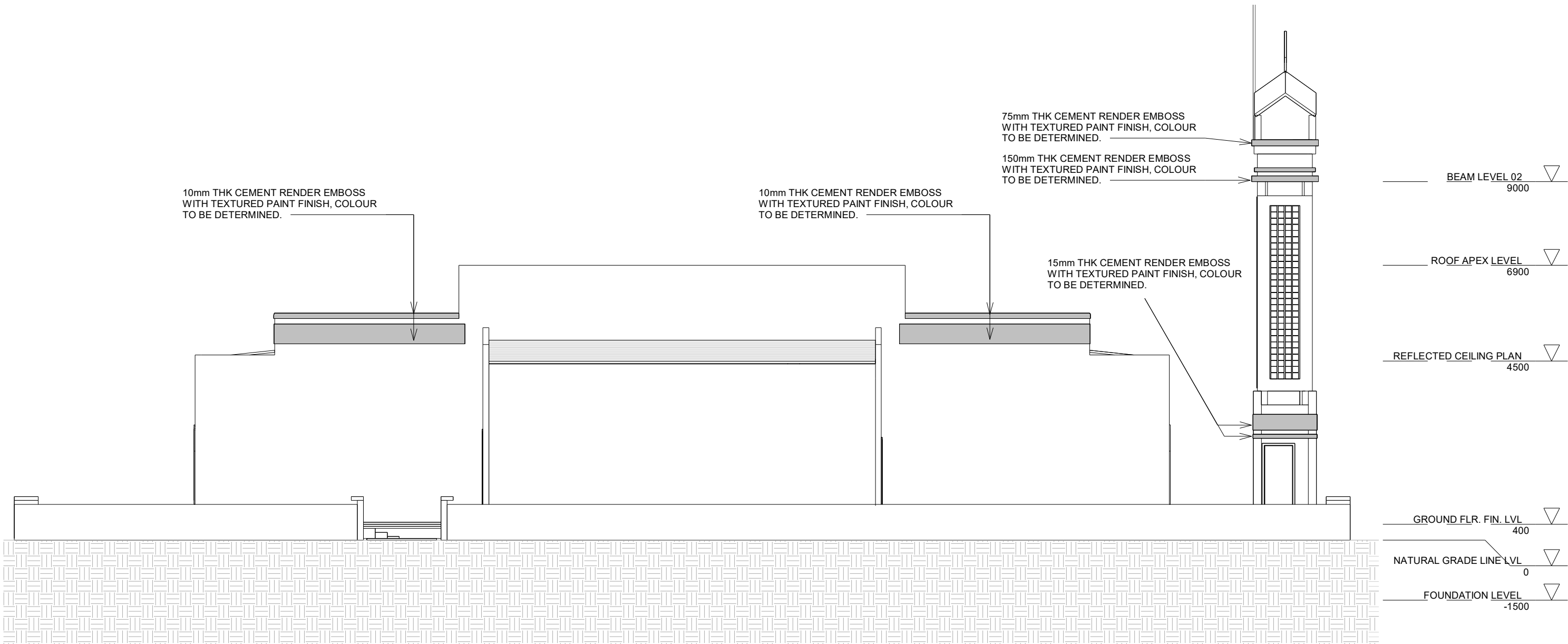


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ELEVATION - E3

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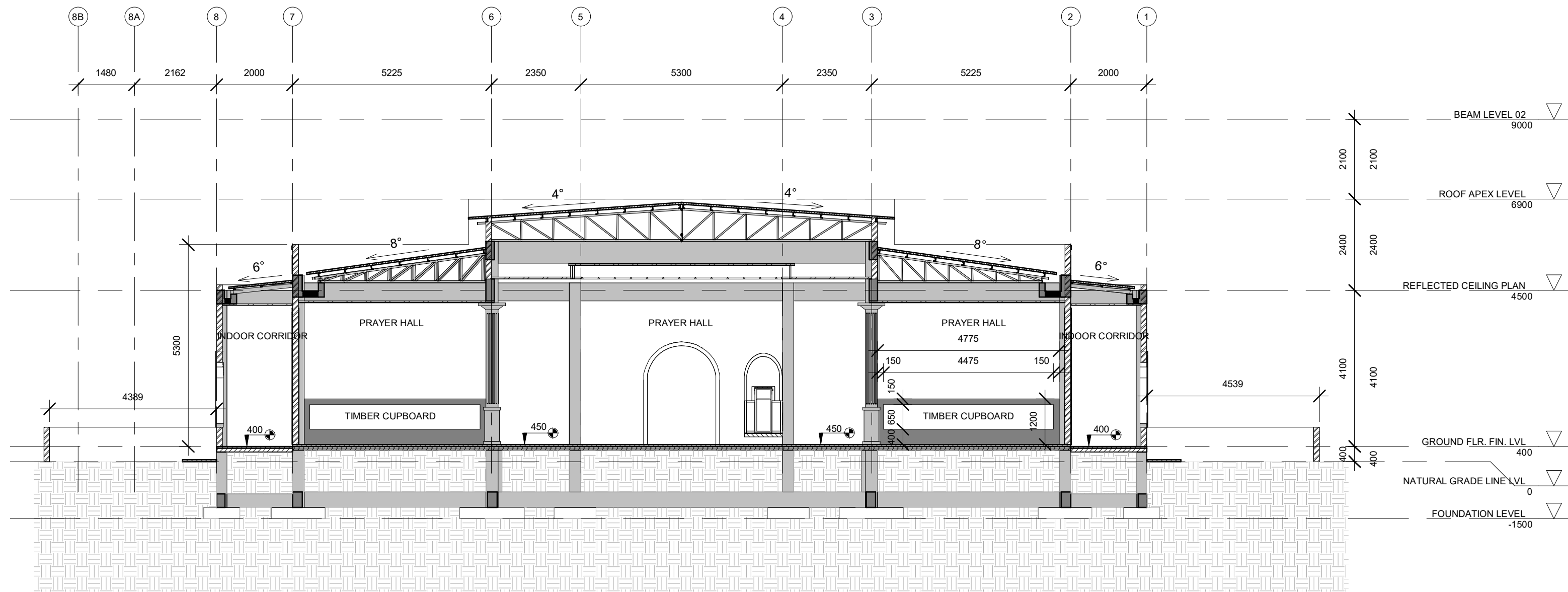


ELEVATION - E4

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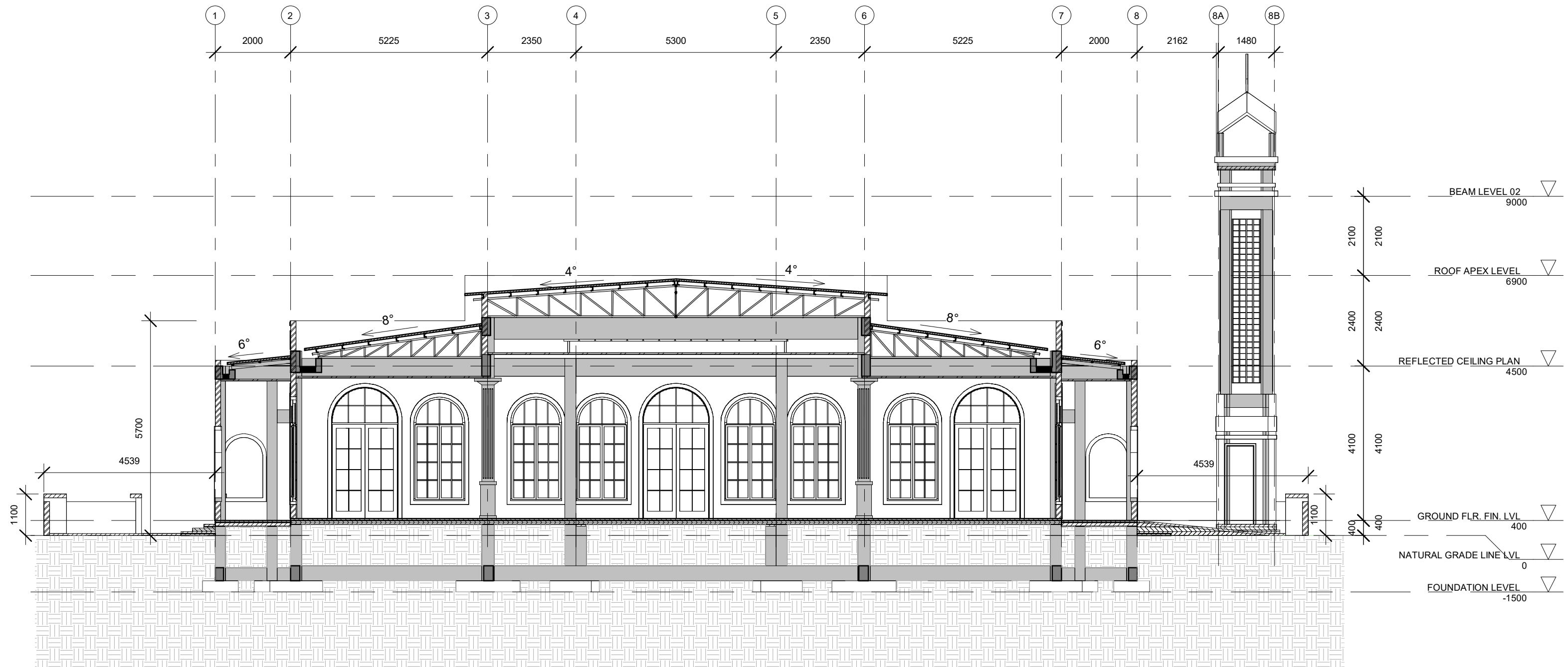
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MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
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INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
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DEVELOPER	-			
ATOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
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ELEVATION				
SHEET SIZE		A2	SCALE 1 : 100	
SHEET NO.				
AR-109				
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SECTION X1-X1

1 : 100



SECTION X2-X2

1 : 100

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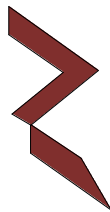
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MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

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DRAWING TITLES

SECTION

SHEET SIZE

A2

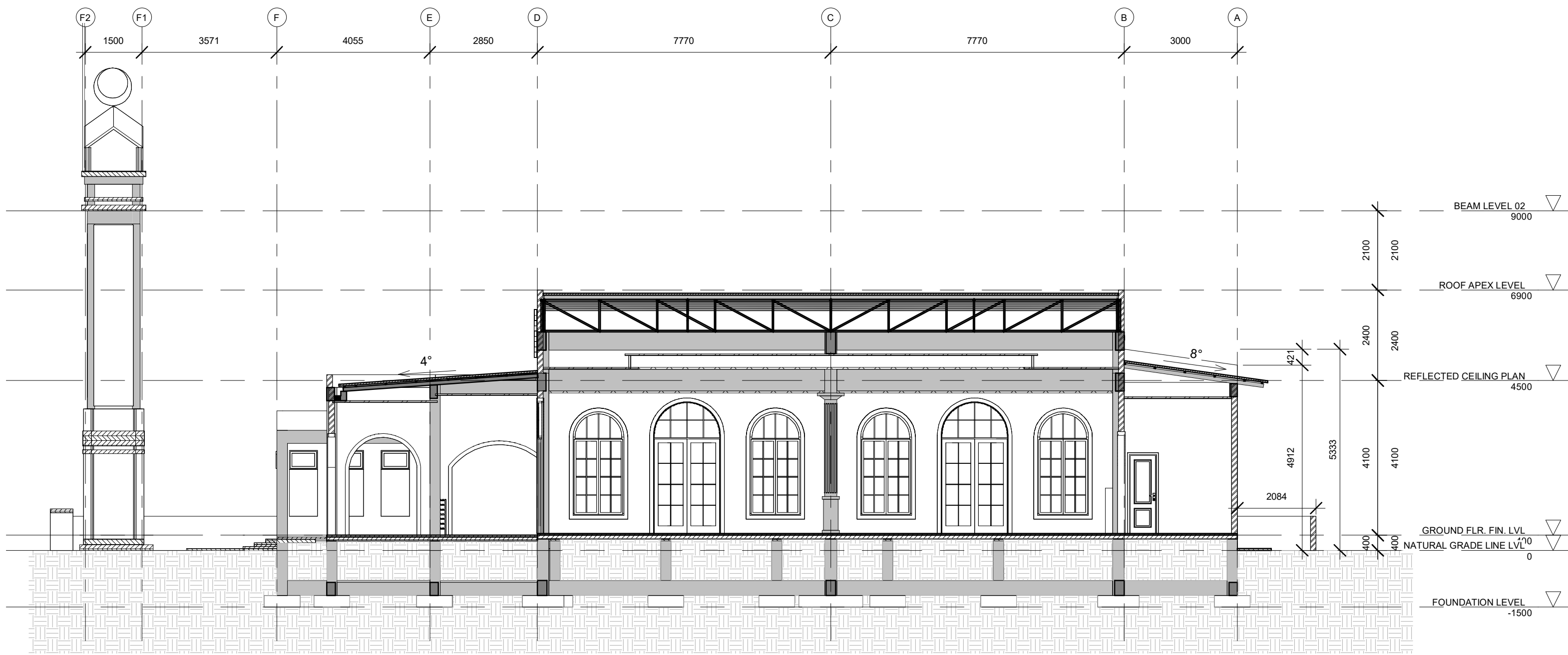
SCALE

1 : 100

SHEET NO.

AR-110

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SECTION Y1-Y1

1 : 100



SECTION Y2-Y2

1 : 100

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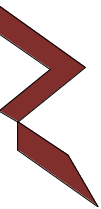
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DRAWING TITLES

SECTION 2

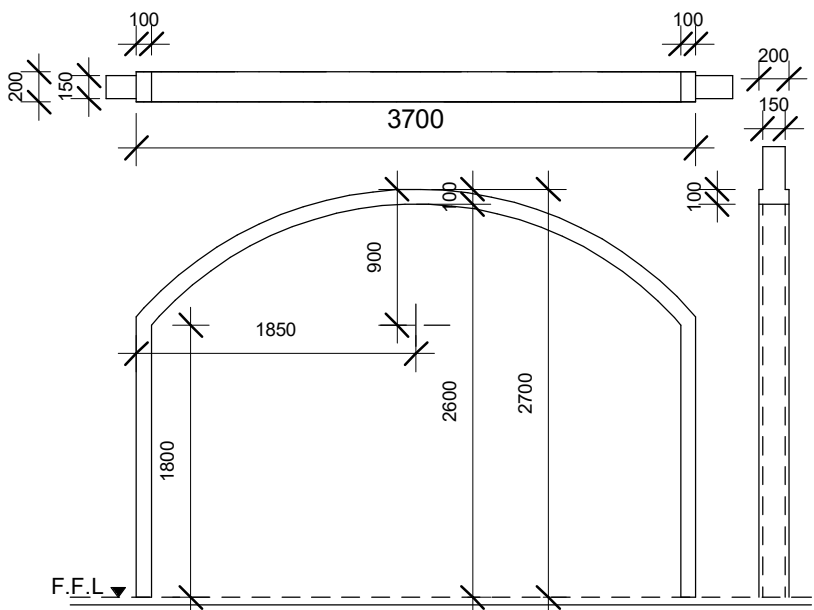
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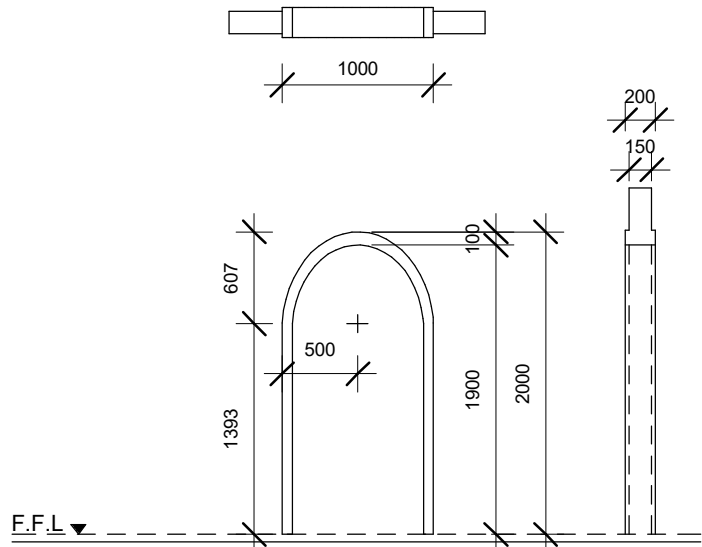
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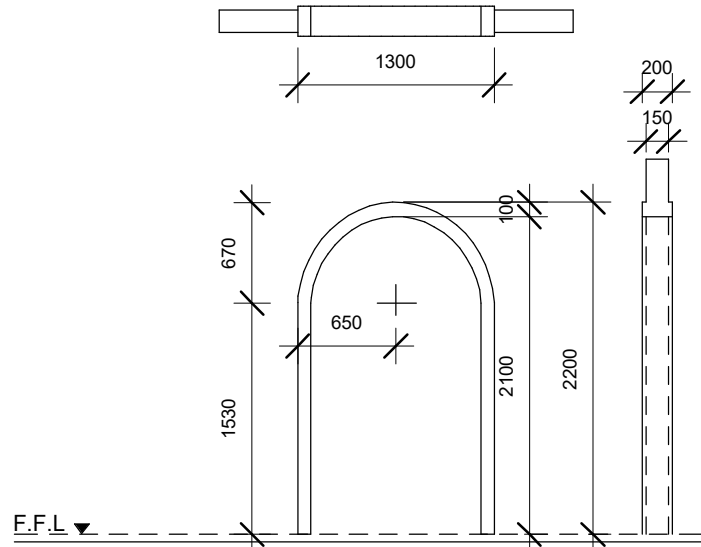
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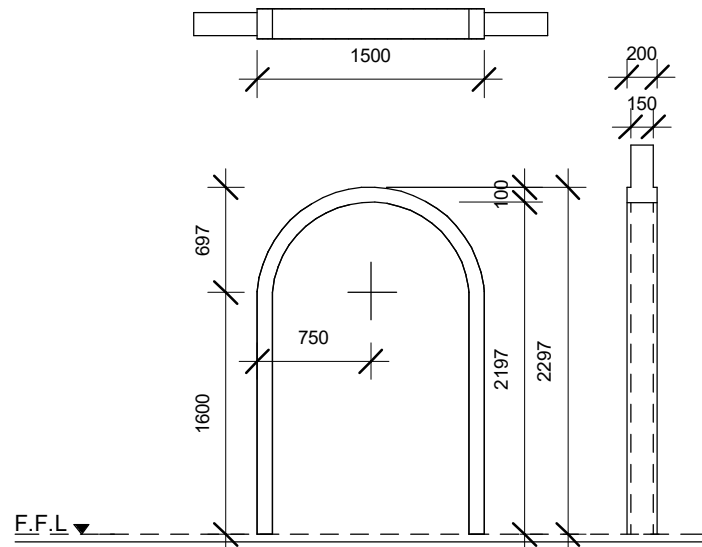
(A0)	OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	CORRIDO ( MAIN ENTRANCE)
QUANTITY	01
AREA	8.25M <sup>2</sup>



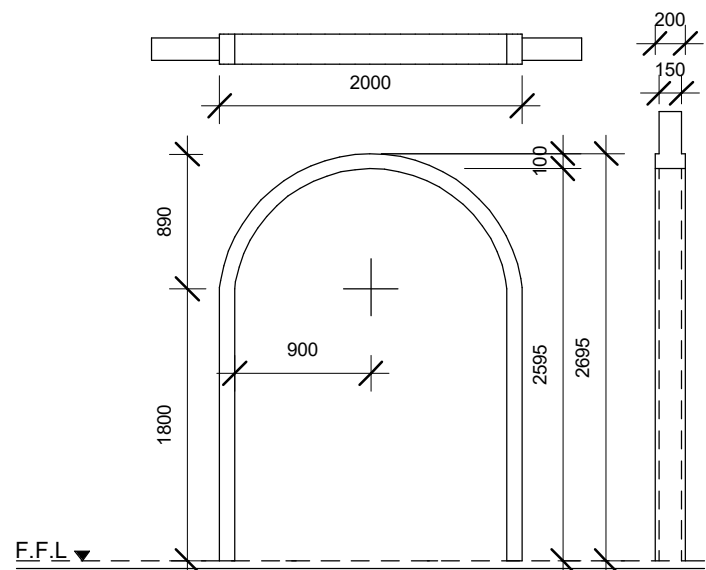
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REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	
QUANTITY	01
AREA	1.56M <sup>2</sup>



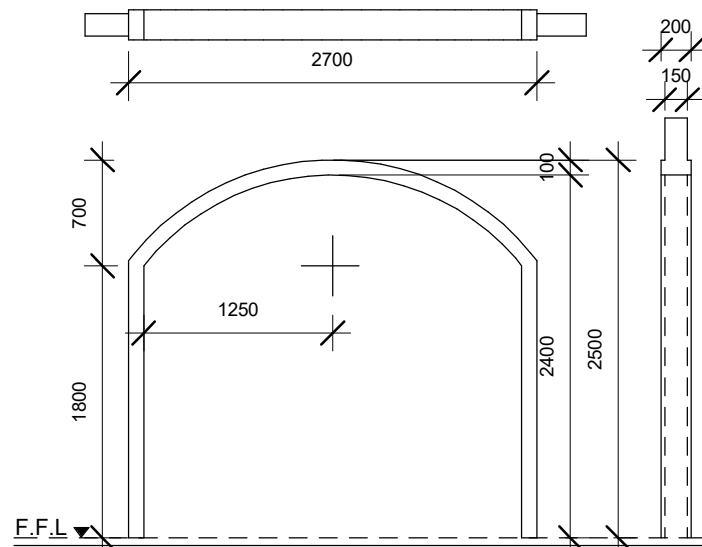
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REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	ABLUTION
QUANTITY	02
AREA	2.22M <sup>2</sup>



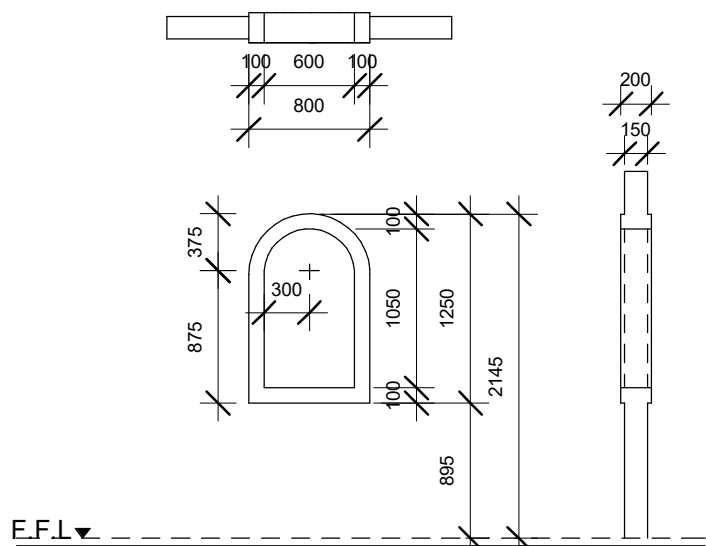
(A3)	OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	ABLUTION
QUANTITY	02
AREA	2.28M <sup>2</sup>



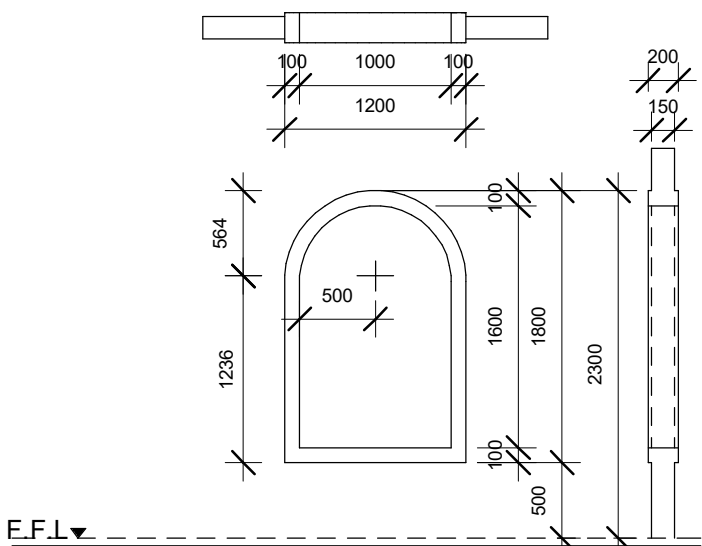
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LOCATION	CORRIDO / PRAYER HALL
QUANTITY	05
AREA	4.33M <sup>2</sup>



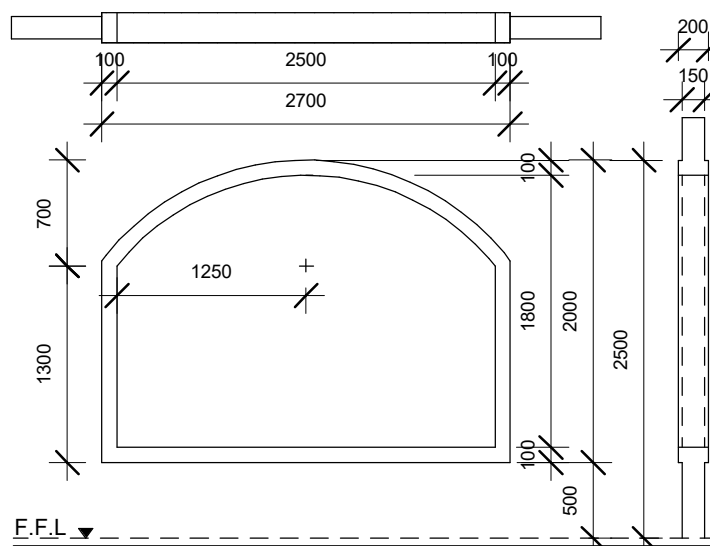
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LOCATION	CORRIDO
QUANTITY	02
AREA	5.55M <sup>2</sup>



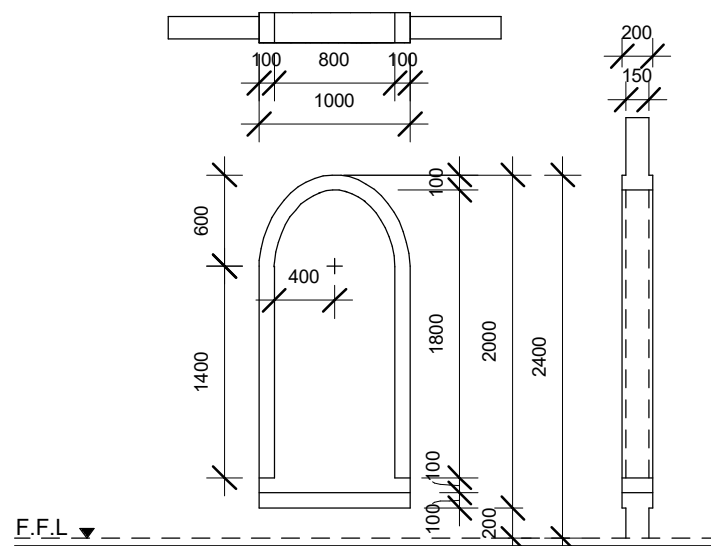
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REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	ABLUTION
QUANTITY	08
AREA	0.60M <sup>2</sup>



(a2)	ARCH OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	CORRIDO
QUANTITY	02
AREA	1.50M <sup>2</sup>



(a3)	ARCH OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	CORRIDO
QUANTITY	10
AREA	4.10M <sup>2</sup>



(a4)	ARCH OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	IMAM ROOM
QUANTITY	01
AREA	1.50M <sup>2</sup>

## DOOR / WINDOW OPENING

1 : 50

### 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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### REVISIONS

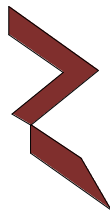
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CONSULTANT PROJECT NO: R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.J

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT Client: Ministry of Islamic Affairs

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

21/06/2024

DRAWING TITLES

DOOR / WINDOW OPENING

SHEET SIZE

A2

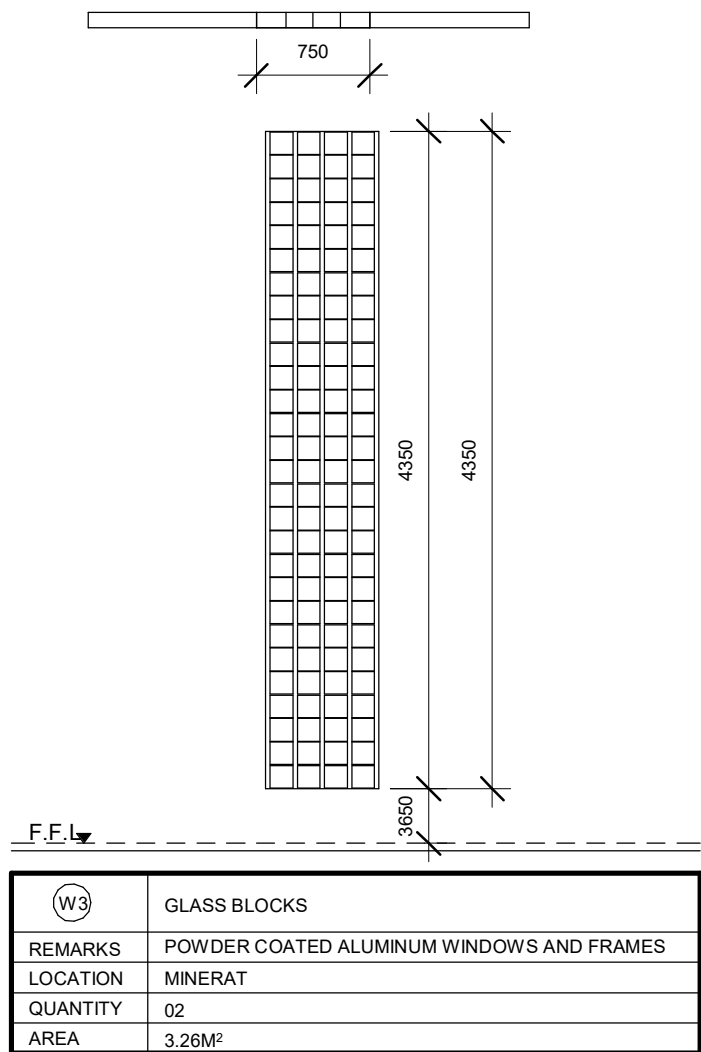
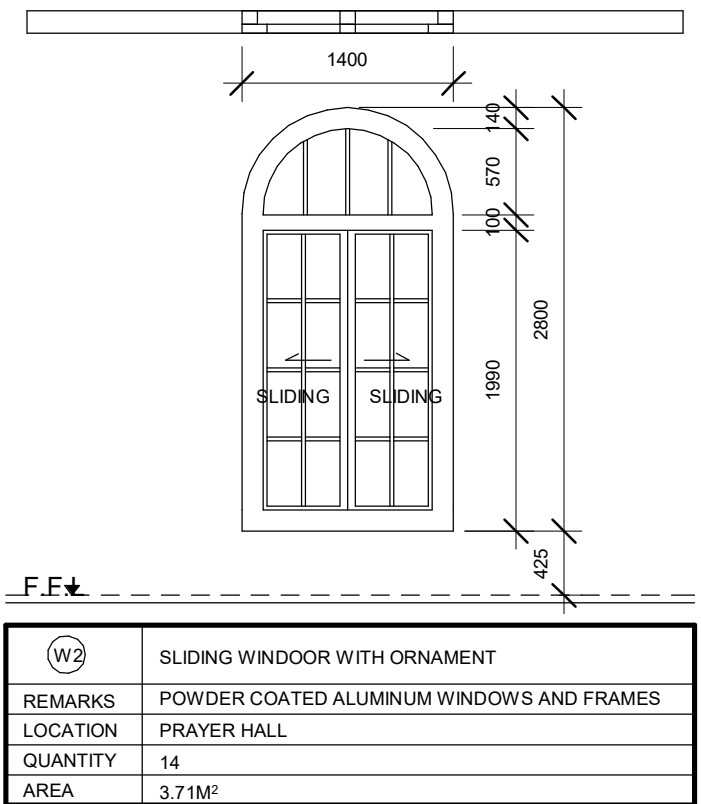
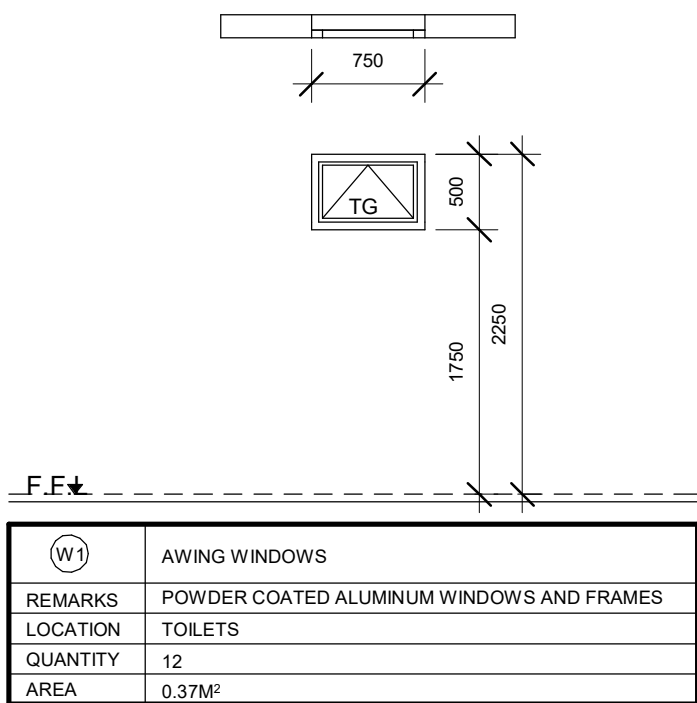
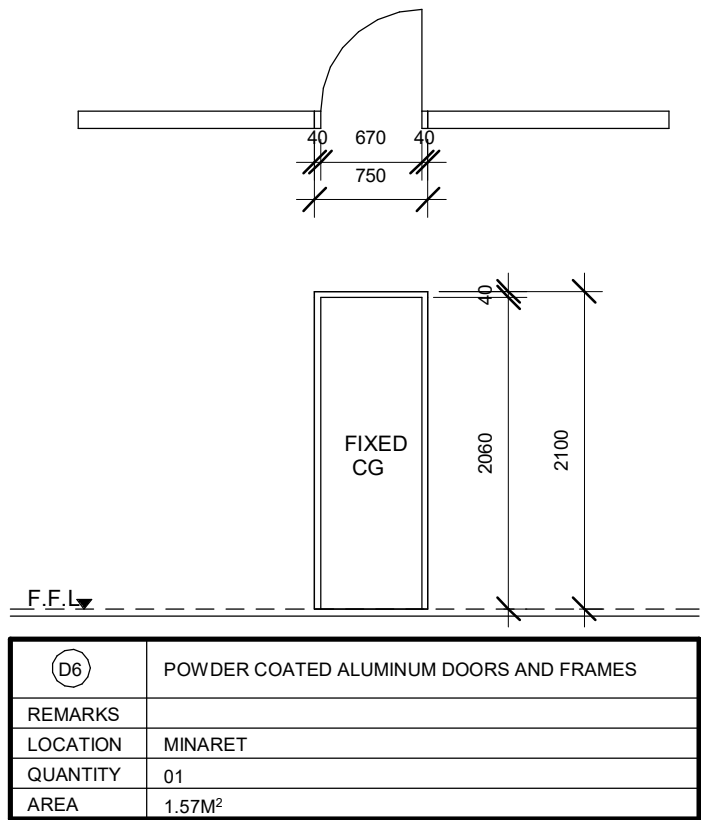
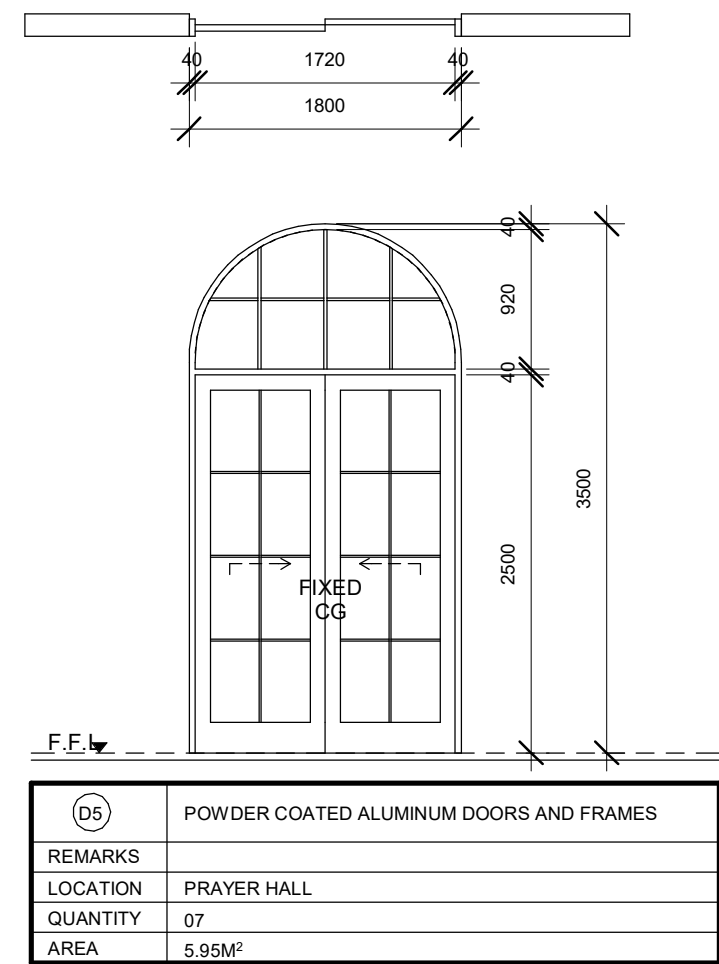
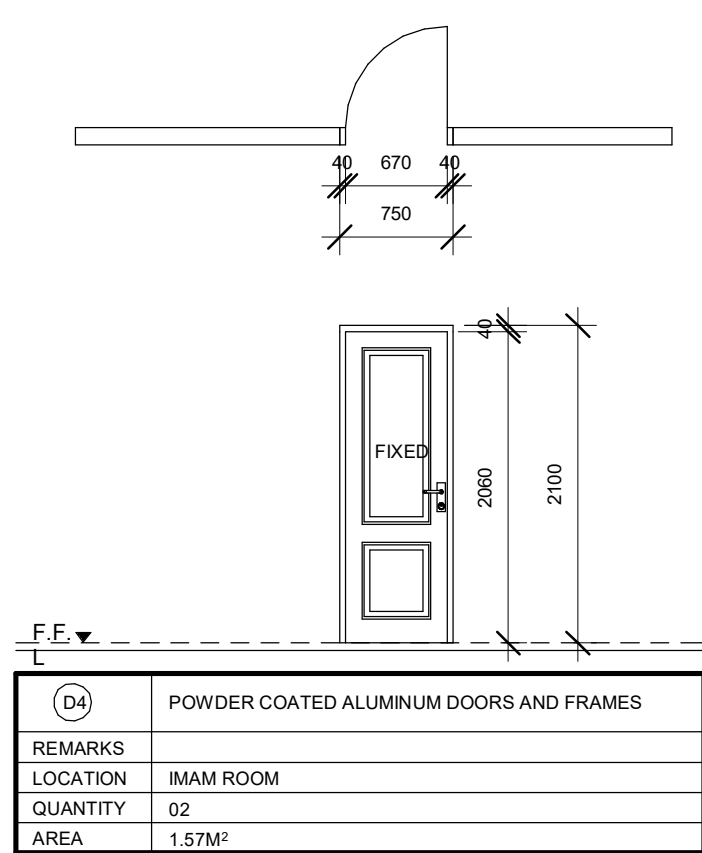
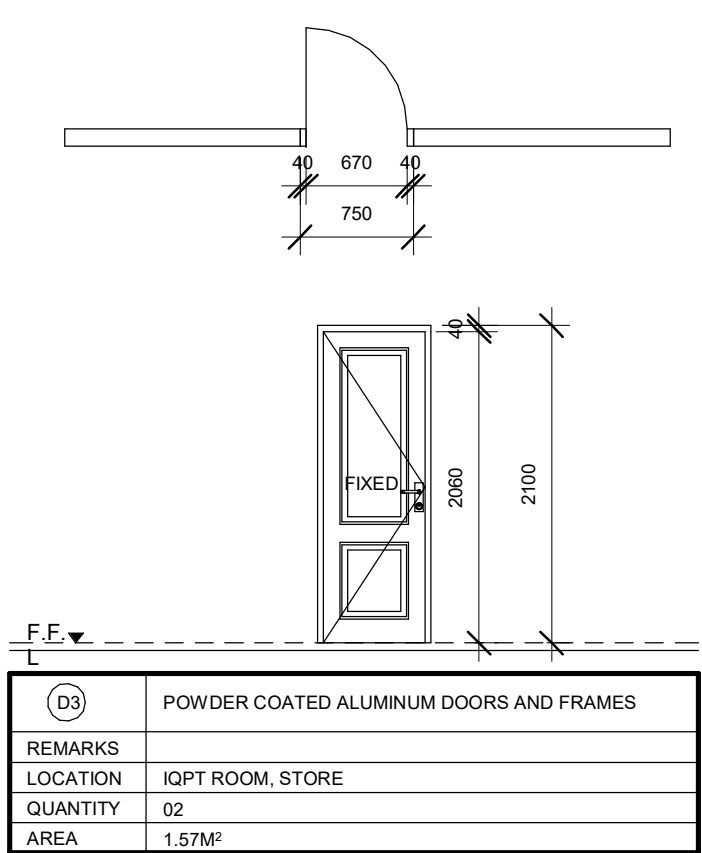
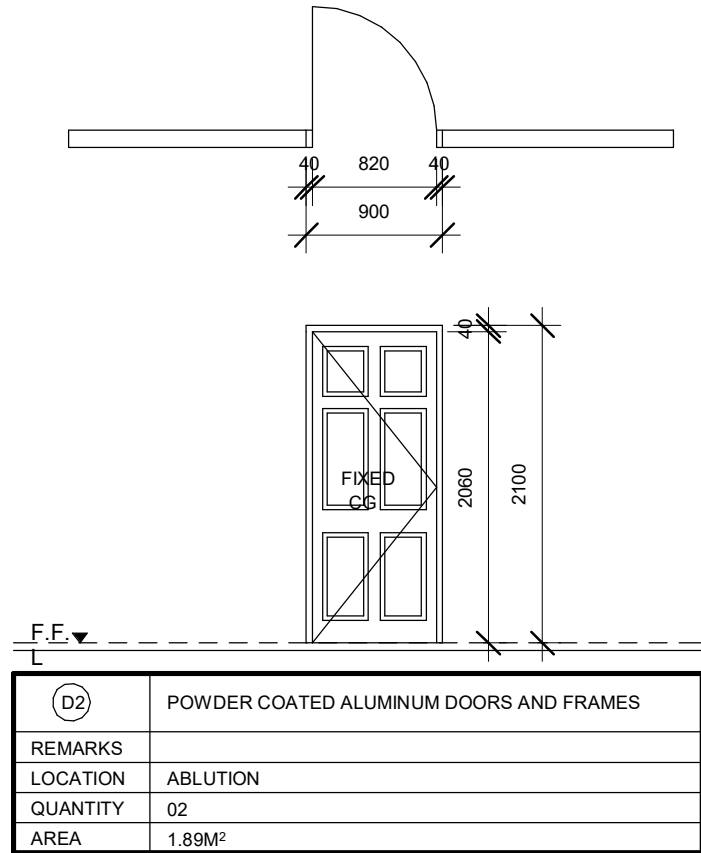
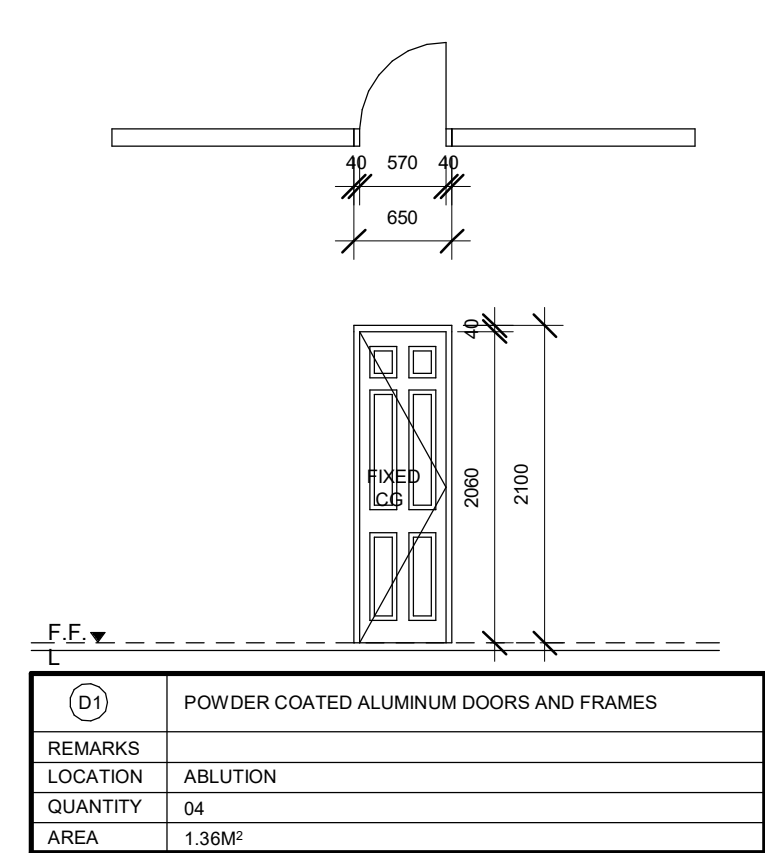
SCALE 1 : 50

SHEET NO.

AR-112

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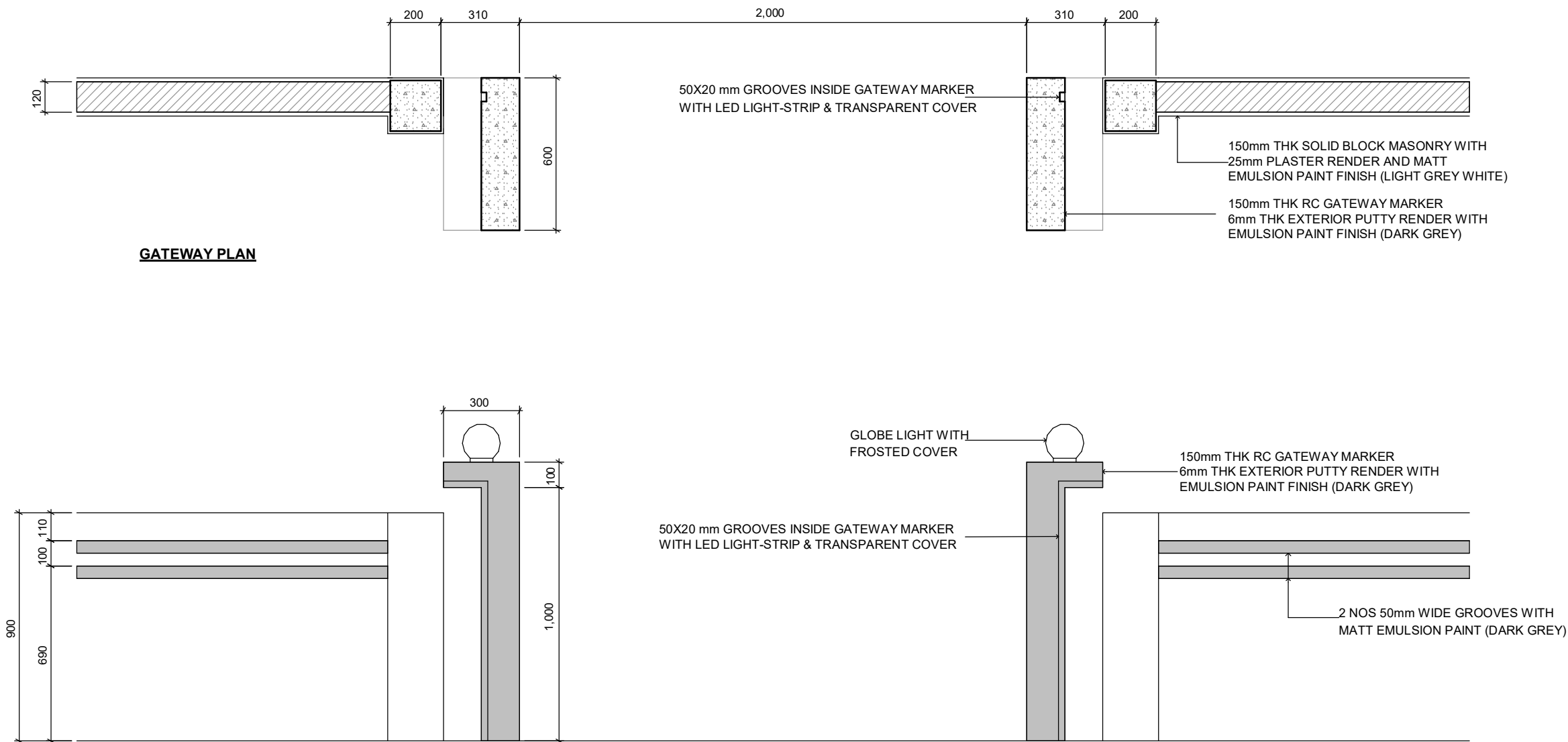
LEGEND:-  
CG - CLEAR GLASS  
FCG - FIXED CLEAR GLASS  
FG - FROSTED GLASS  
FFG - FIXED FROSTED GLASS  
RG - REFLECTED GLASS  
FRG - FIXED REFLECTED GLASS  
TG - TEMPERED CLEAR GLASS  
AL - ALUMINIUM  
ST - SOLID TIMBER  
T - TIMBER  
PVC - POLYVINYL CHLORIDE

NOTE:-  
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.  
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.  
- INTERNAL DOORS FRAME DEPTH TO BE WIDTH OF THE WALL.  
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.  
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)  
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

## DOOR/ WINDOW SCHEDULE

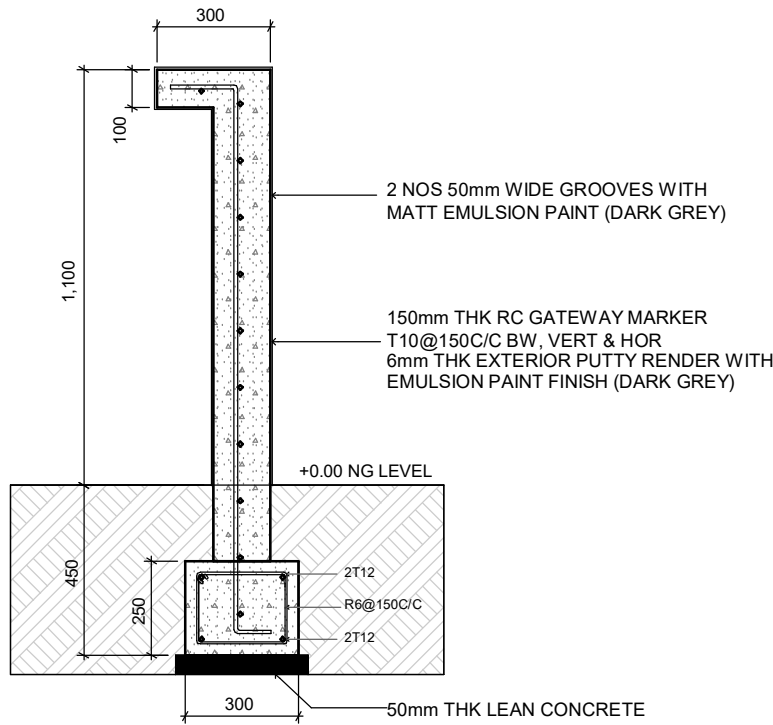
1 : 50

GENERAL NOTES				
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<div><div>RIYAN PRIVATE LIMITED</div><div>www.riyan.com.mv</div></div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.J			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque : 500 pax				
CLIENT	Client: Ministry of Islamic Affairs			
DEVELOPER	-			
ATOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			21/06/2024	
DRAWING TITLES				
DOOR/ WINDOW SCHEDULE				
SHEET SIZE		A2	SCALE 1 : 50	
SHEET NO.				
AR-113				
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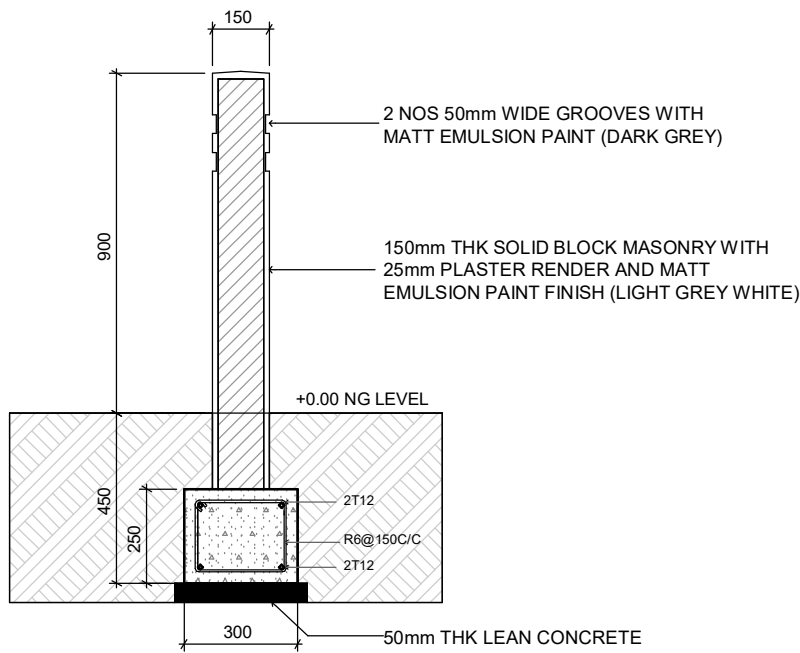


GATEWAY PLAN

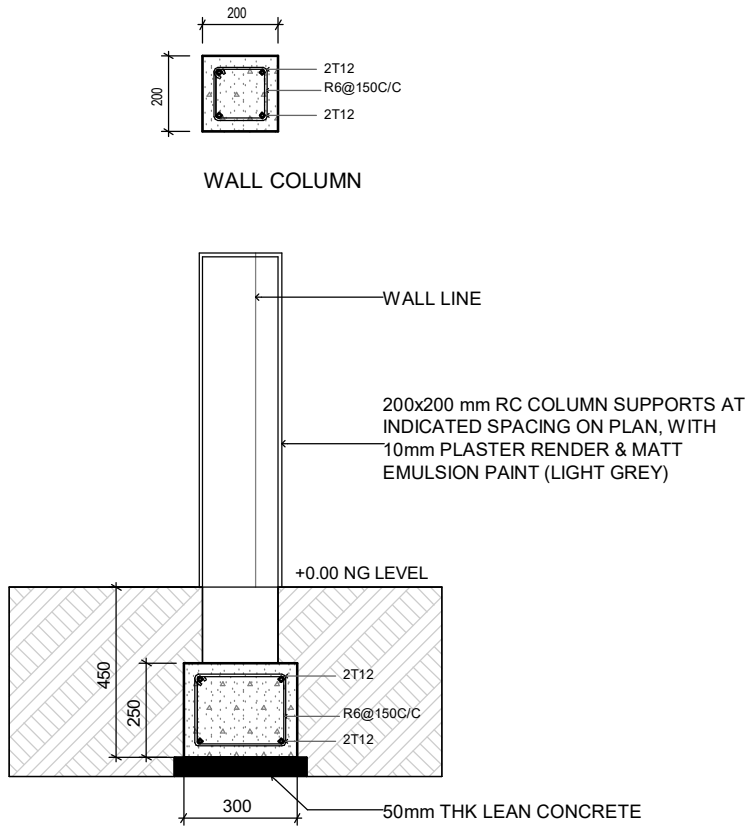
GATEWAY ELEVATION



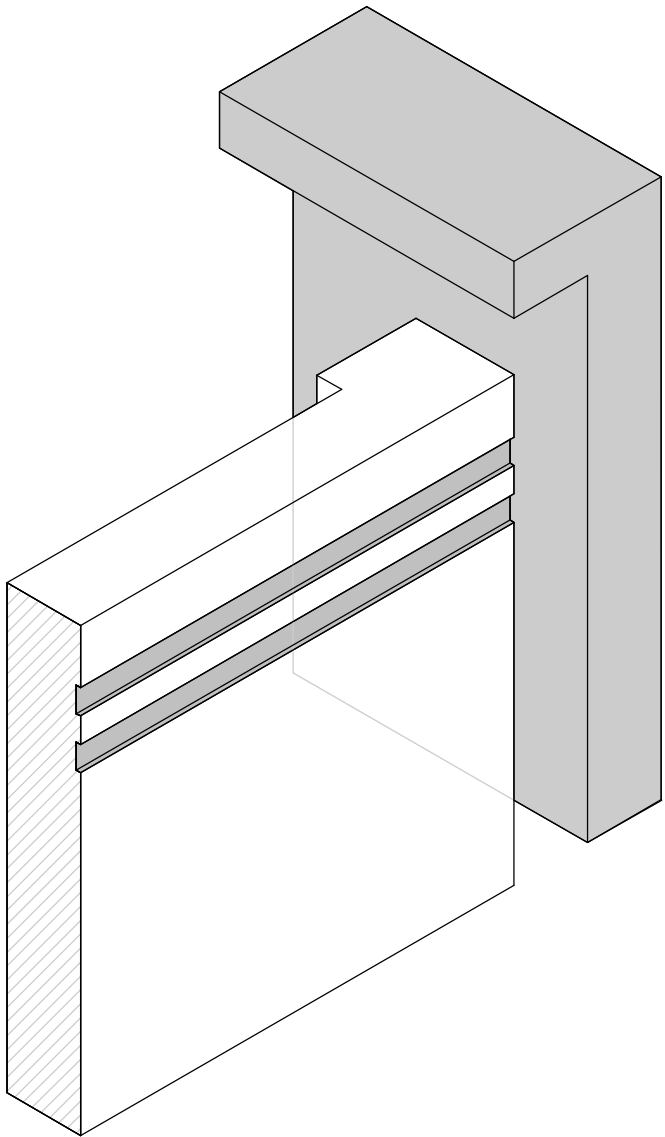
GATEWAY SECTION



WALL SECTION



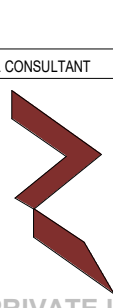
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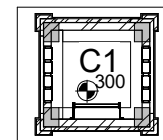



ISOMETRIC VIEW

BOUNDARY WALL DETAILS

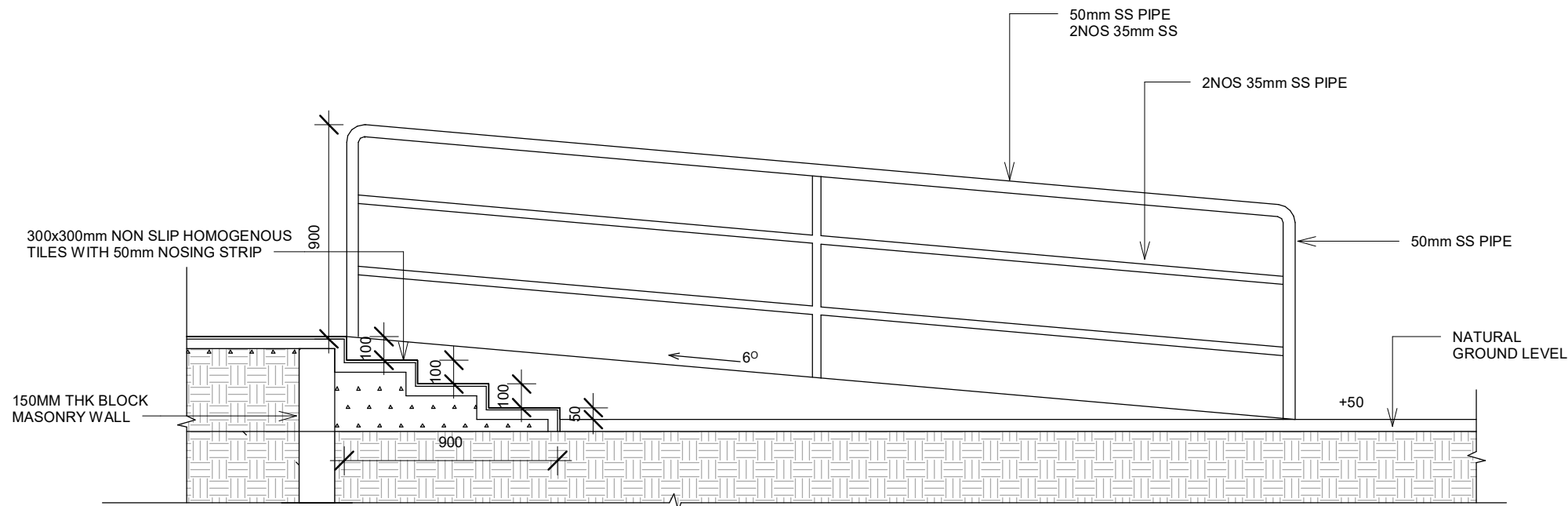
1 : 20

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REGISTERED LOCAL CONSULTANT				
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CONSULTANT PROJECT NO. <b>R24002MIA</b>				
ARCHITECT	<b>Ismail Rasheed</b>			
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>			
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.J</b>			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	<b>Akila Dilshan</b>			
CHECKED BY	<b>Zunabath Abdul Majid</b>			
APPROVED BY				
PROJECT NAME				
<b>Prototype Mosque : 500 pax</b>				
CLIENT	<b>Client: Ministry of Islamic Affairs</b>			
DEVELOPER	-			
ATOLL	—			
ISLAND	—			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
<b>DD_DETAIL DESIGN</b>				
BUILDING NAME				
<b>Mosque for 500 pax</b>				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		<b>21/06/2024</b>		
DRAWING TITLES				
<b>BOUNDARY WALL DETAILS</b>				
SHEET SIZE		A2	SCALE 1 : 20	
SHEET NO.				
<b>AR-114</b>				
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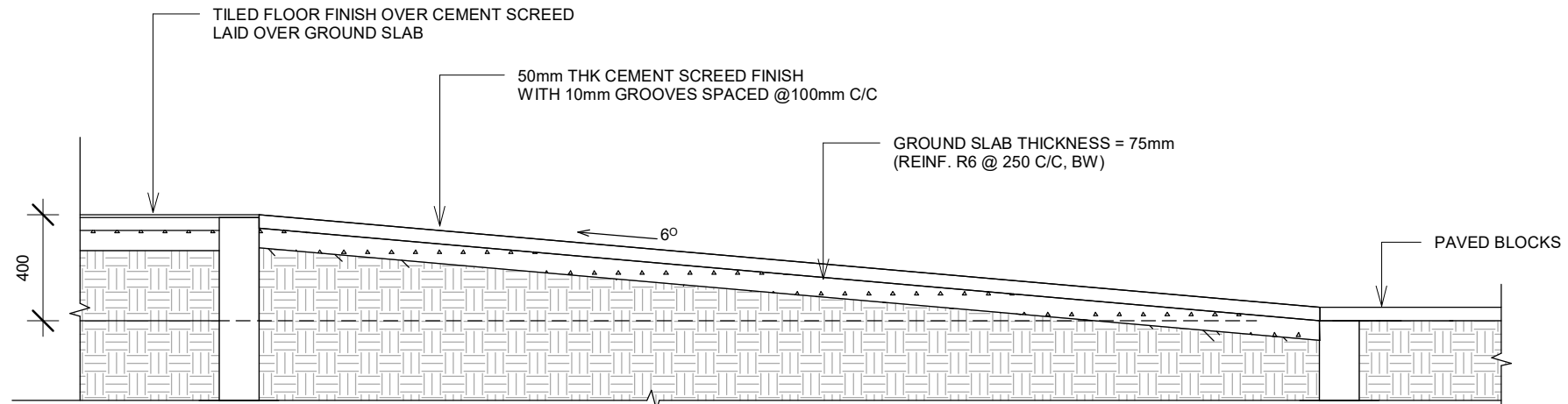


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CONSULTANT PROJECT NO. <b>R24002MIA</b>				
ARCHITECT	<b>Ismaail Rasheed</b>			
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>			
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.I</b>			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	<b>Akila Dilshan</b>			
CHECKED BY	<b>Zunabath Abdul Majid</b>			
APPROVED BY				
PROJECT NAME				
<b>Prototype Mosque : 500 pax</b>				
CLIENT	<b>Client: Ministry of Islamic Affairs</b>			
DEVELOPER	-			
ATOLL	_____			
ISLAND	_____			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
<b>DD_DETAIL DESIGN</b>				
BUILDING NAME				
<b>Mosque for 500 pax</b>				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			<b>21/06/2024</b>	
DRAWING TITLES				
<b>MATERIAL FINISHES</b>				
SHEET SIZE		A2	SCALE <b>1 : 100</b>	
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<b>AR-115</b>				
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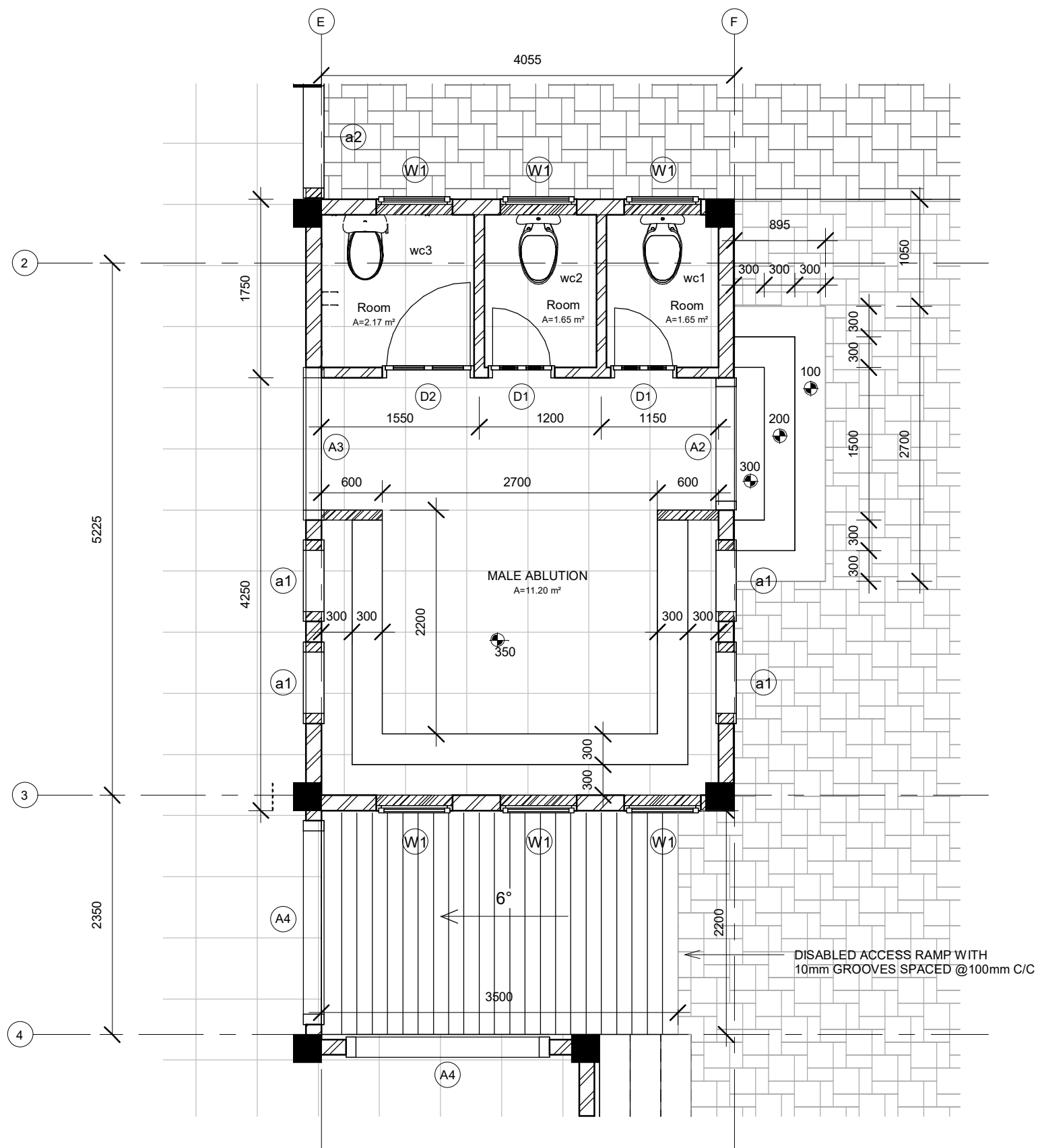


STEPS SECTION



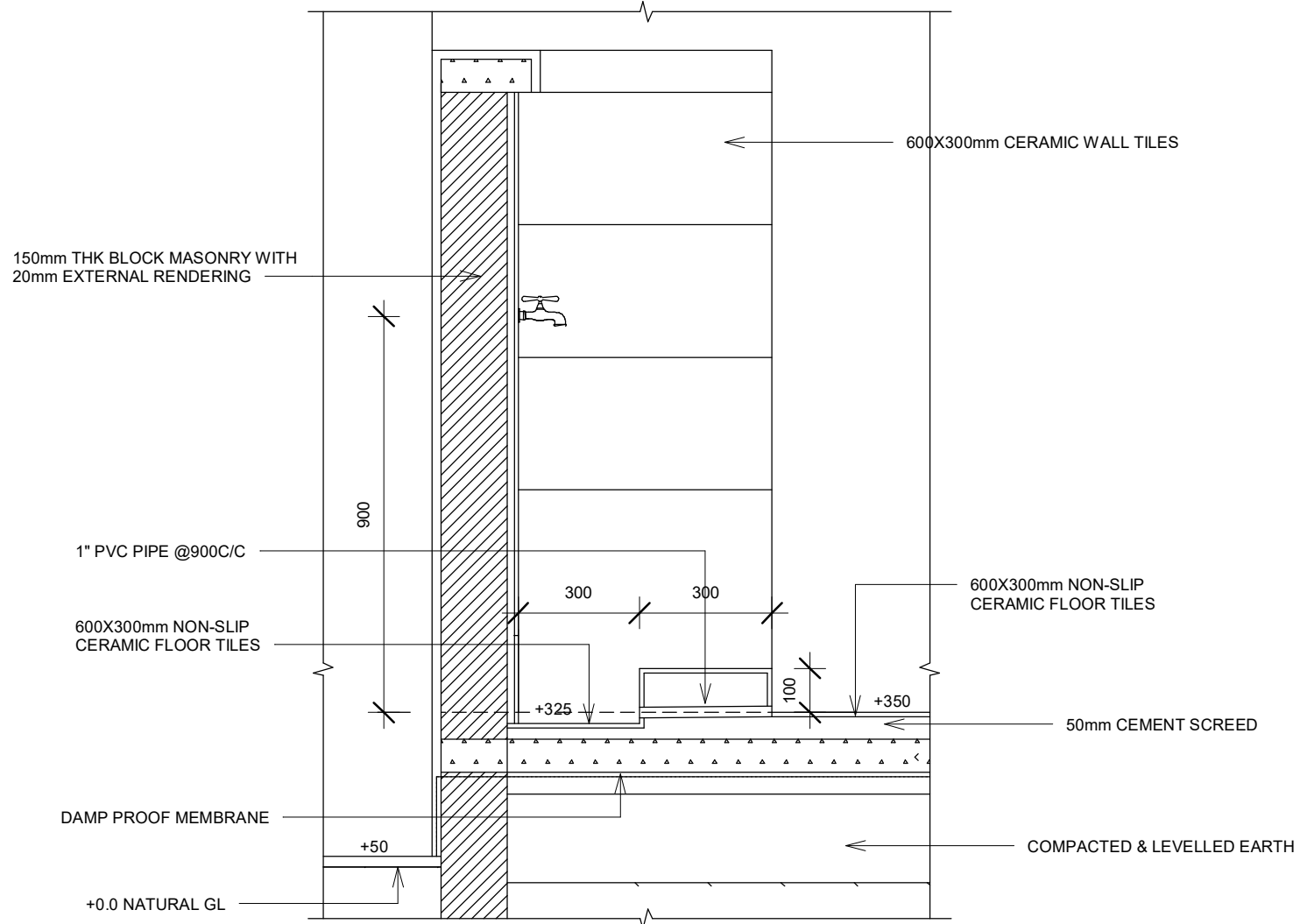
## RAMP

1 : 25



## ABLUTION AREA

1 : 50



## ABLUTION AREA DETAILS

1 : 25

### GENERAL NOTES

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### REVISIONS

REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

### CONSULTANT

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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

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

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT Client: Ministry of Islamic Affairs

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

21/06/2024

DRAWING TITLES

ABLUTION AREA & RAMP DETAILS

SHEET SIZE

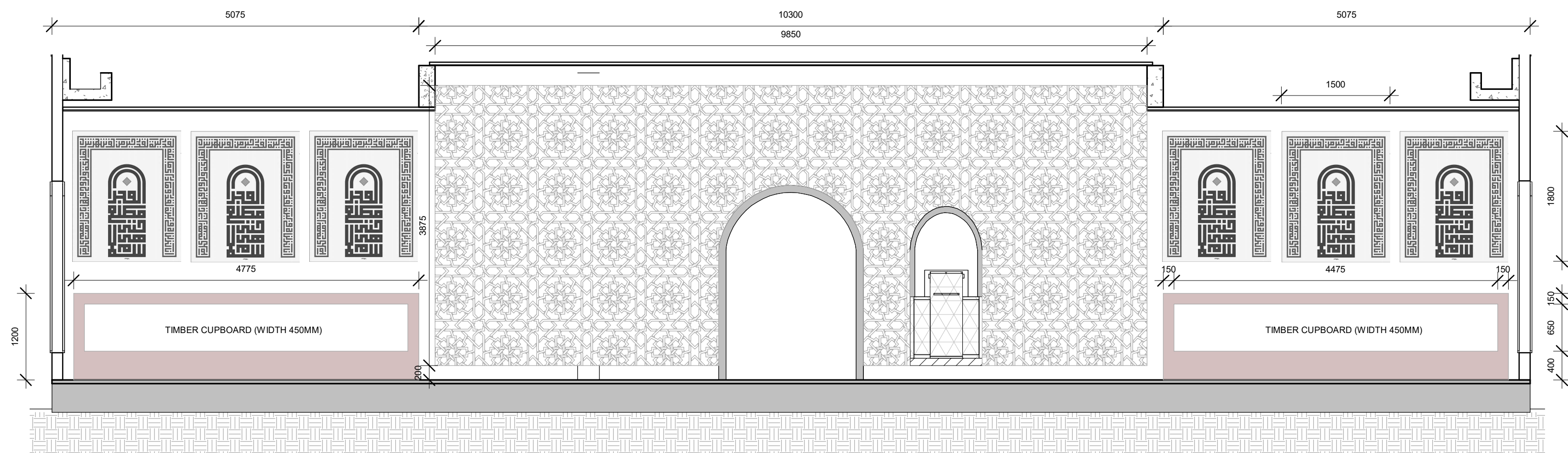
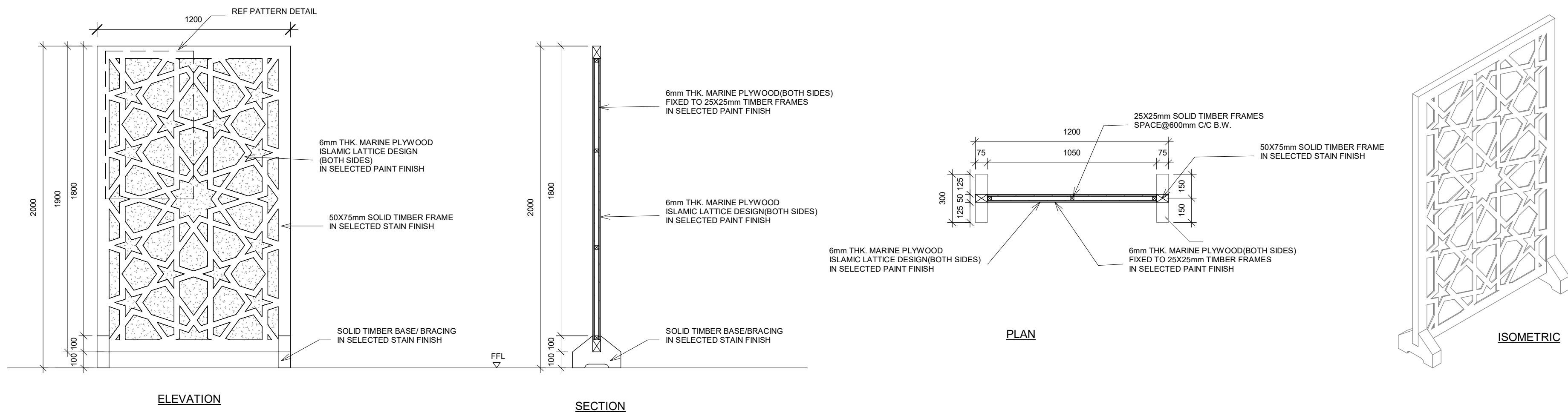
A2

SCALE As indicated

SHEET NO.

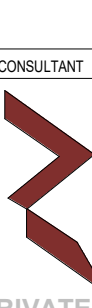
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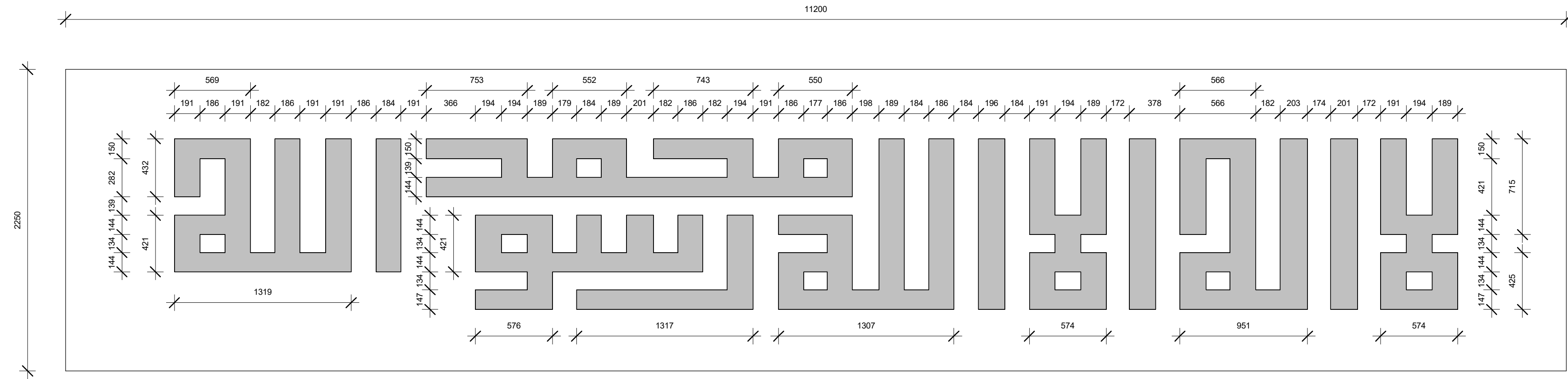
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## FEATURED BACK WALL

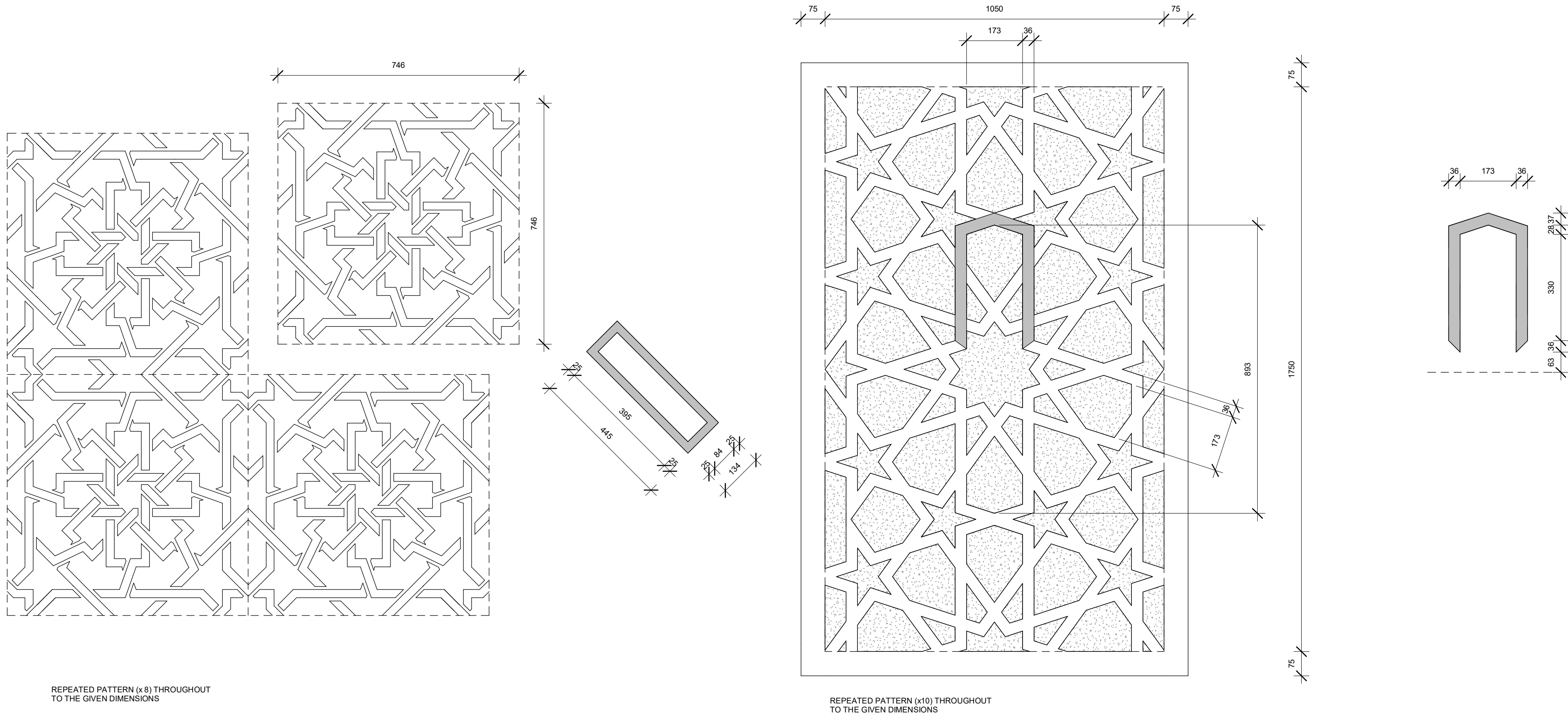
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DESIGN CONSULTANT					
REGISTERED LOCAL CONSULTANT					
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CONSULTANT PROJECT NO. <b>R24002MIA</b>					
ARCHITECT	<b>Ismail Rasheed</b>				
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>				
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.J</b>				
INT. DESIGNER	-				
INFRA. DESIGNER	-				
DRAWN BY	<b>Akila Dilshan</b>				
CHECKED BY	<b>Zunabath Abdul Majid</b>				
APPROVED BY					
PROJECT NAME					
<b>Prototype Mosque : 500 pax</b>					
CLIENT	<b>Client: Ministry of Islamic Affairs</b>				
DEVELOPER	-				
ATOLL	---				
ISLAND	---				
LAGOON (GPS COORDINATES)	-				
ISSUED FOR					
<b>DD_DETAIL DESIGN</b>					
BUILDING NAME					
<b>Mosque for 500 pax</b>					
BUILDING/STRUCTURE NO.			ISSUE DATE		
			<b>21/06/2024</b>		
DRAWING TITLES					
<b>FEATURE DETAILS</b>					
SHEET SIZE		A2	SCALE		<b>As indicated</b>
SHEET NO.					
<b>AR-117</b>					
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## DETAILED LETTER DESIGN

1 : 25



## FEATURED BACK WALL PATTERN

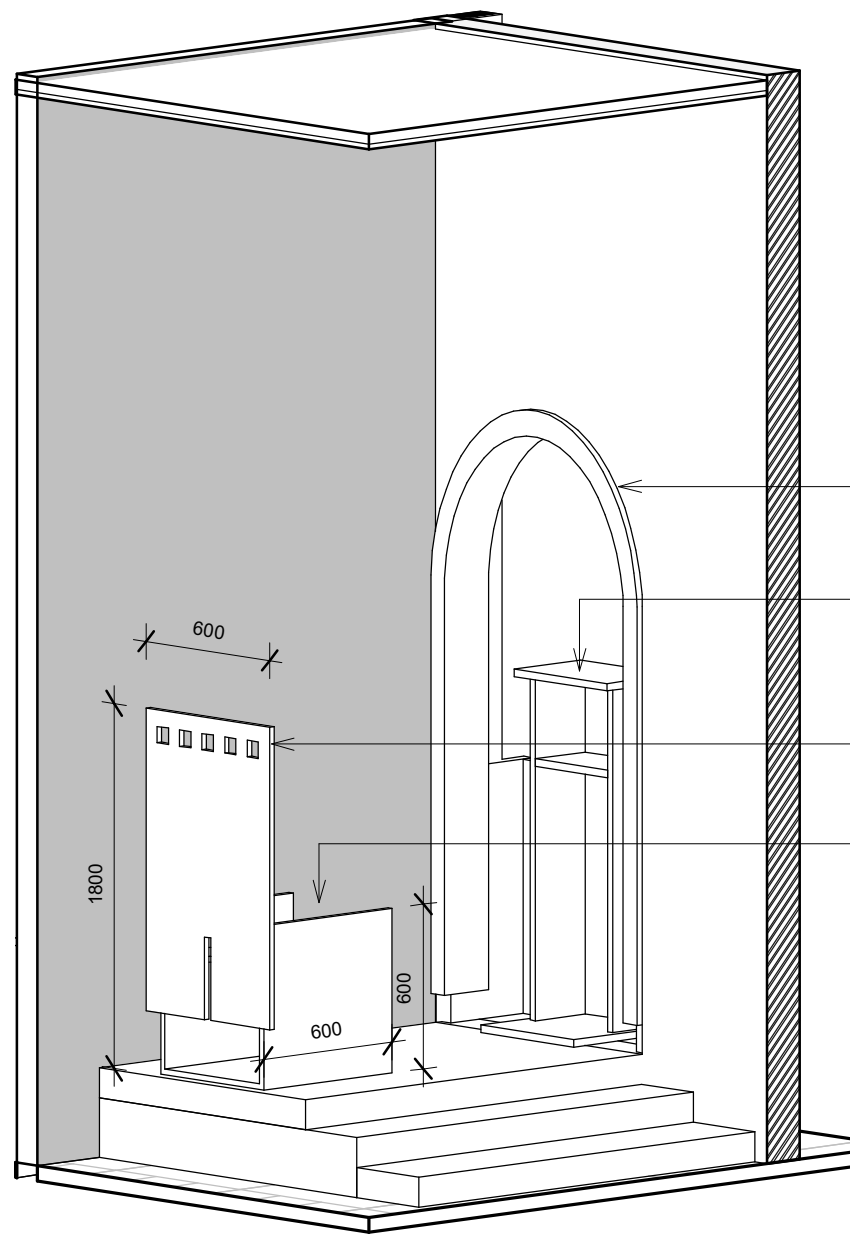
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## PATTERN DESIGN FOR PARTITION SCREEN

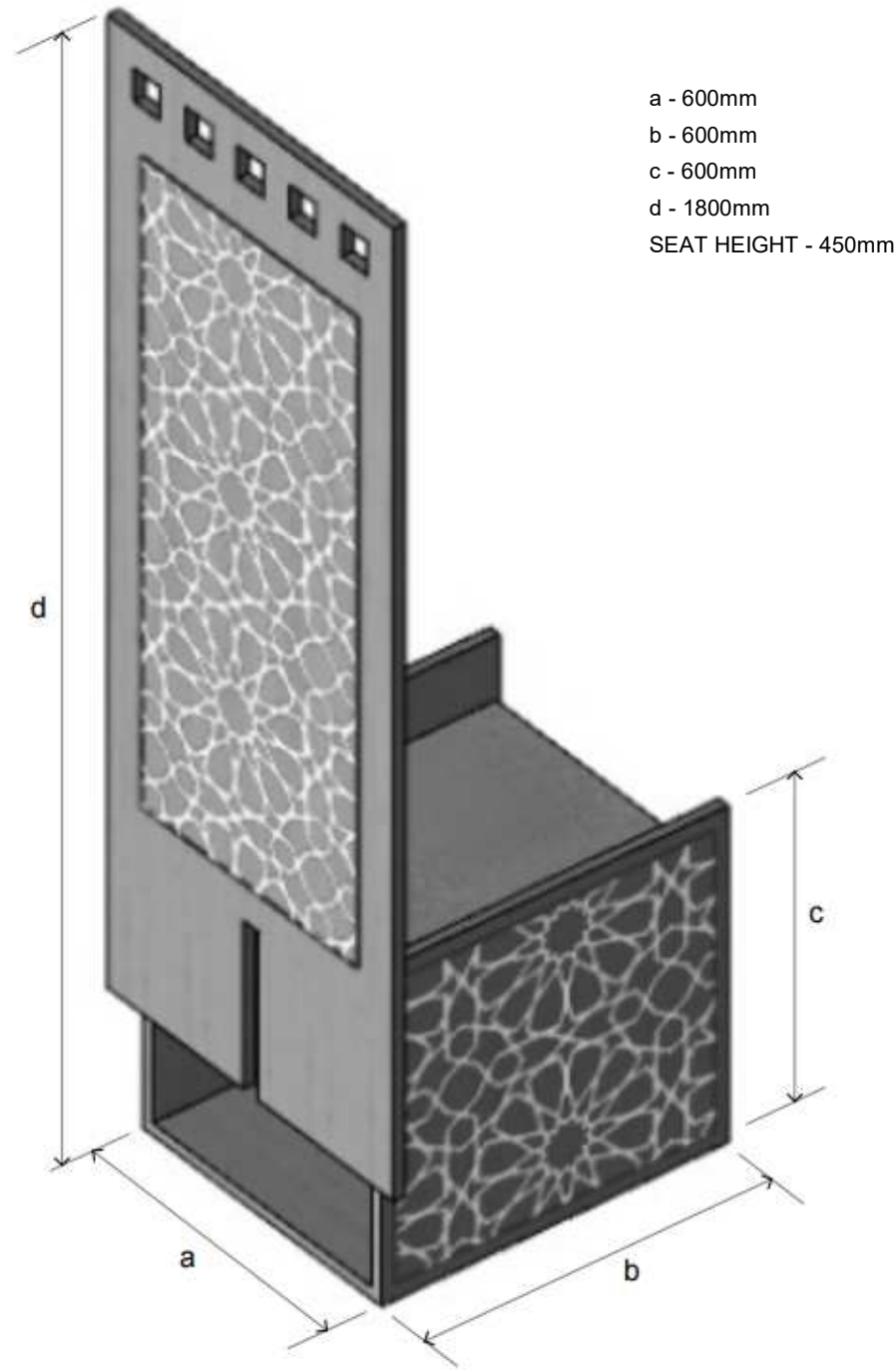
1 : 10

GENERAL NOTES					
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REVISONS					
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY	
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DESIGN CONSULTANT					
REGISTERED LOCAL CONSULTANT					
<div><p><b>RIYAN PRIVATE LIMITED</b> www.riyan.com.mv</p></div>					
CONSULTANT PROJECT NO. <b>R24002MIA</b>					
ARCHITECT	<b>Ismail Rasheed</b>				
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>				
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.I</b>				
INT. DESIGNER	-				
INFRA. DESIGNER	—				
DRAWN BY	<b>Akila Dilshan</b>				
CHECKED BY	<b>Zunabath Abdul Majid</b>				
APPROVED BY					
PROJECT NAME					
<b>Prototype Mosque : 500 pax</b>					
CLIENT					
<b>Client: Ministry of Islamic Affairs</b>					
DEVELOPER					
-					
ATOLL					
—					
ISLAND					
—					
LAGOON (GPS COORDINATES)					
-					
ISSUED FOR					
<b>DD_DETAIL DESIGN</b>					
BUILDING NAME					
<b>Mosque for 500 pax</b>					
BUILDING/STRUCTURE NO.			ISSUE DATE		
			<b>21/06/2024</b>		
DRAWING TITLES					
<b>PATTERN DETAILS</b>					
SHEET SIZE	A2		SCALE		<b>As indicated</b>
SHEET NO.					
<b>AR-118</b>					
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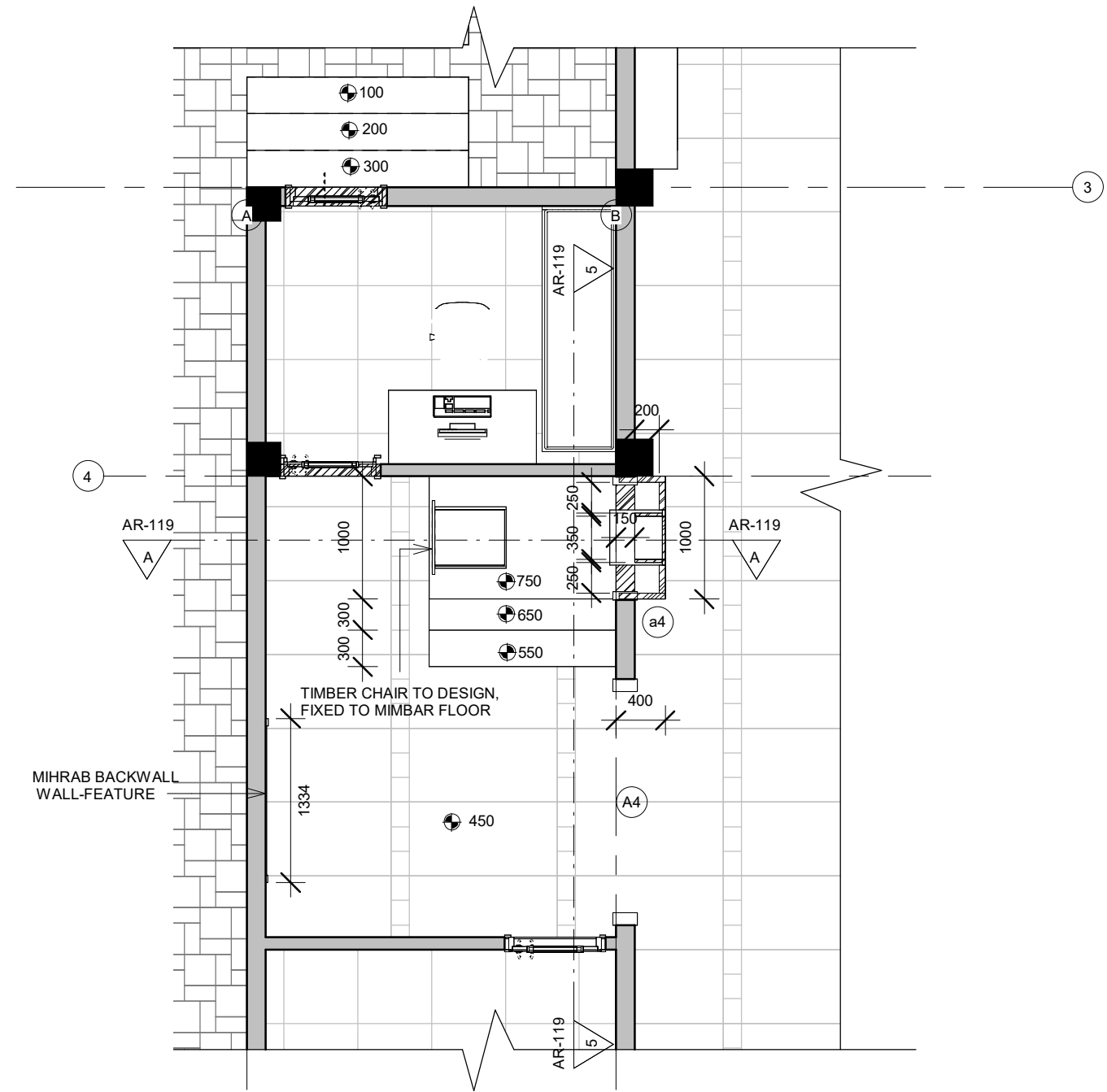


MIMBAR CHAIR



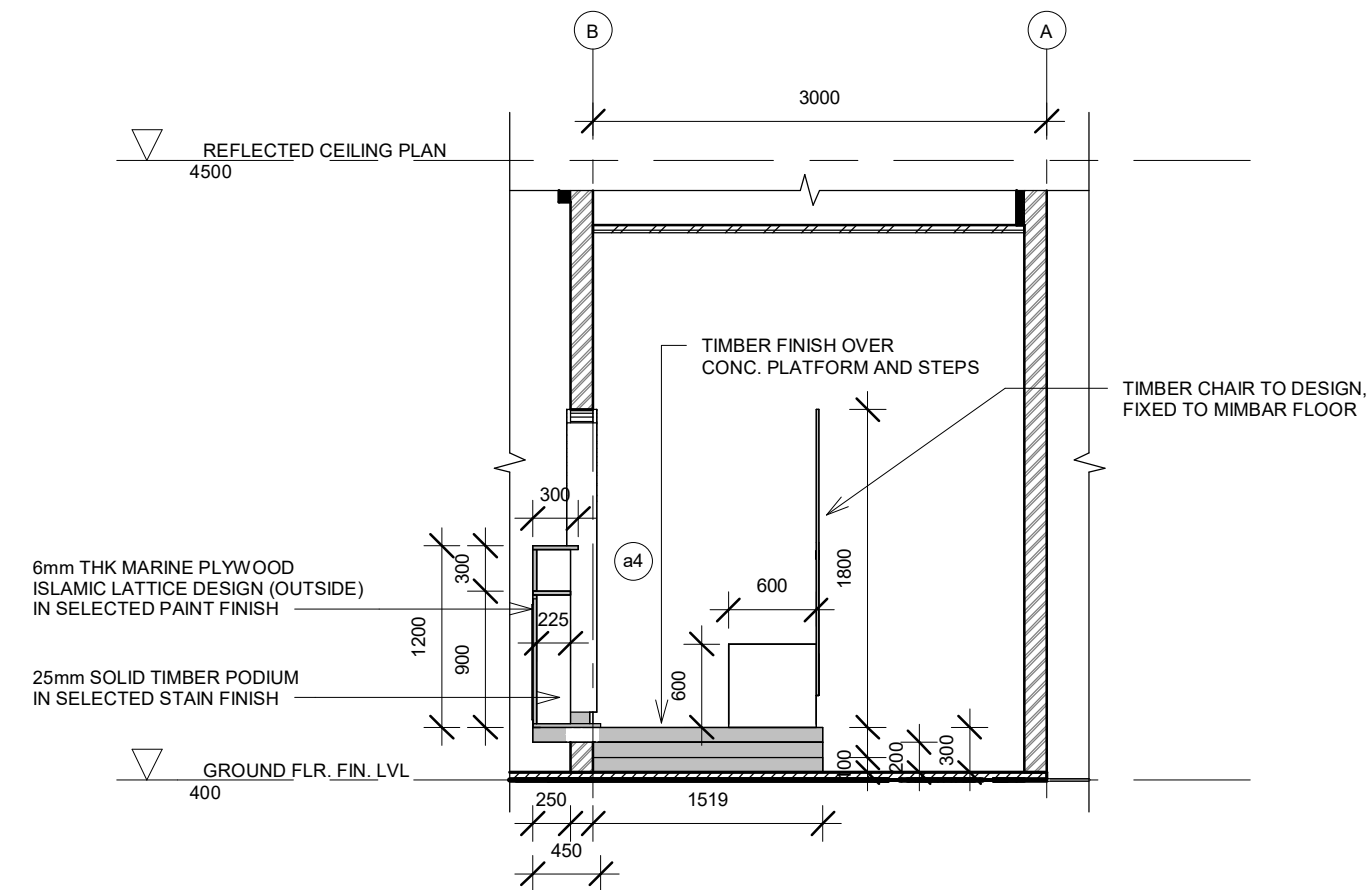
MIMBAR CHAIR

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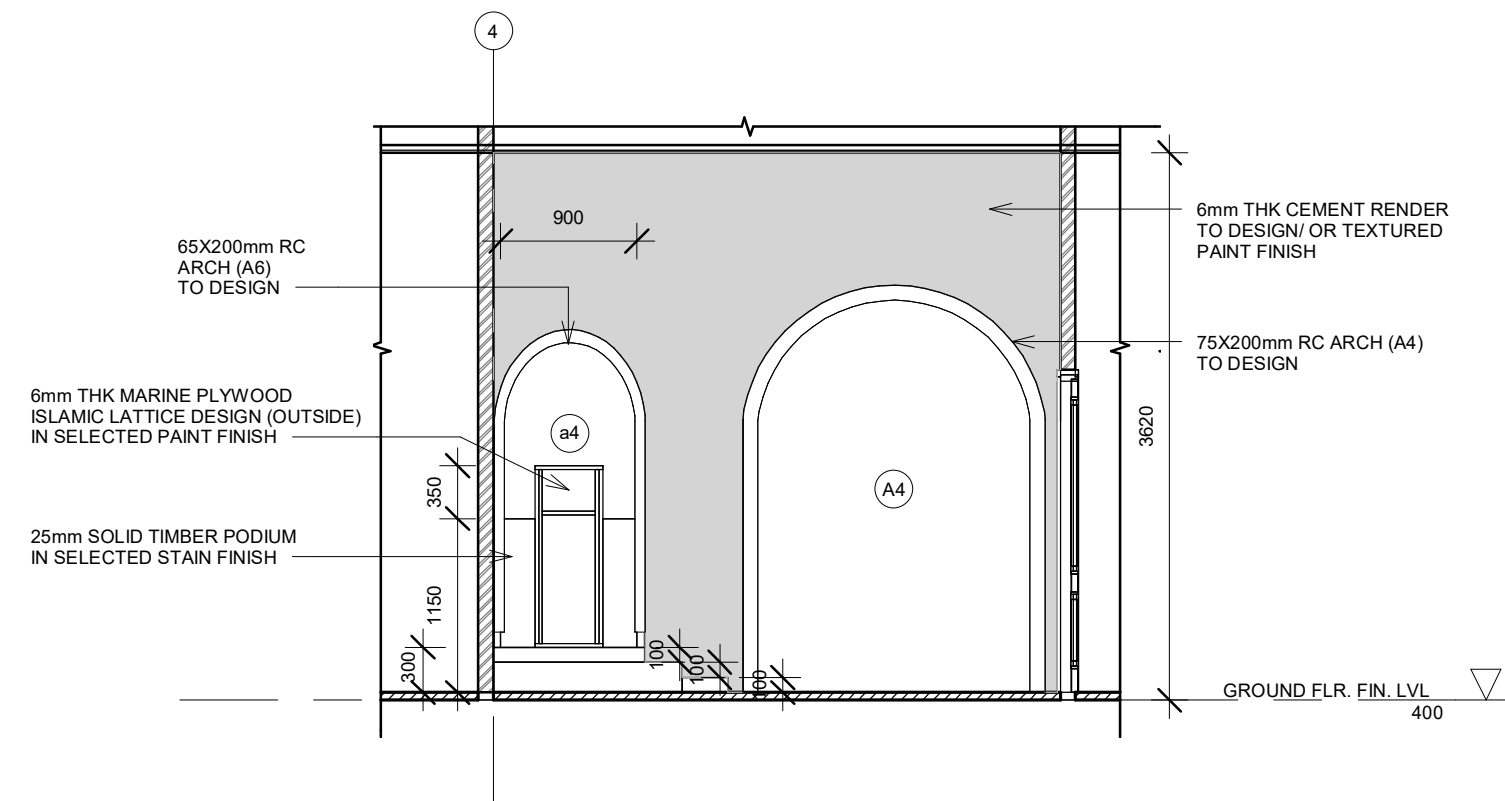
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1 : 50



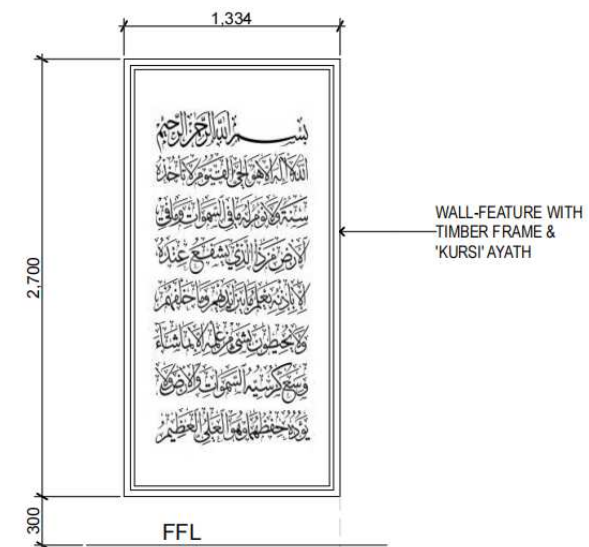
SECTION A

1 : 50



SECTION B

1 : 50



MINRAB BACKWALL FEATURE

1 : 50

GENERAL NOTES

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REVISIONS

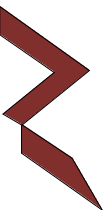
REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

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CONSULTANT PROJECT NO. R24002MIA

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CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.J

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INFRA. DESIGNER -

DRAWN BY Akila Dilshan

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APPROVED BY

PROJECT NAME

Prototype Mosque : 500 pax

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DRAWING TITLES

MIHRAB & IMAM ROOM AREA

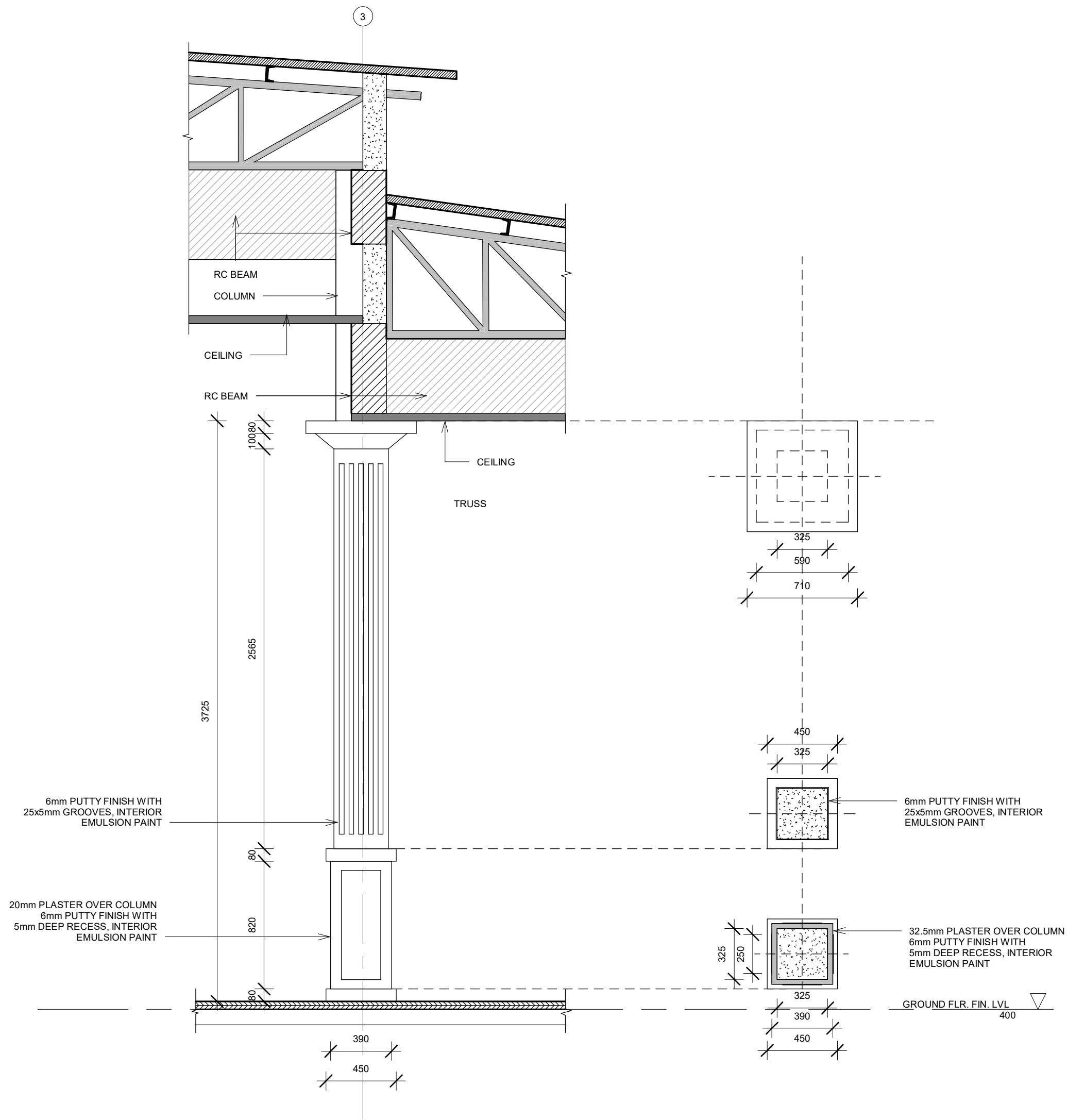
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SHEET NO.

AR-119

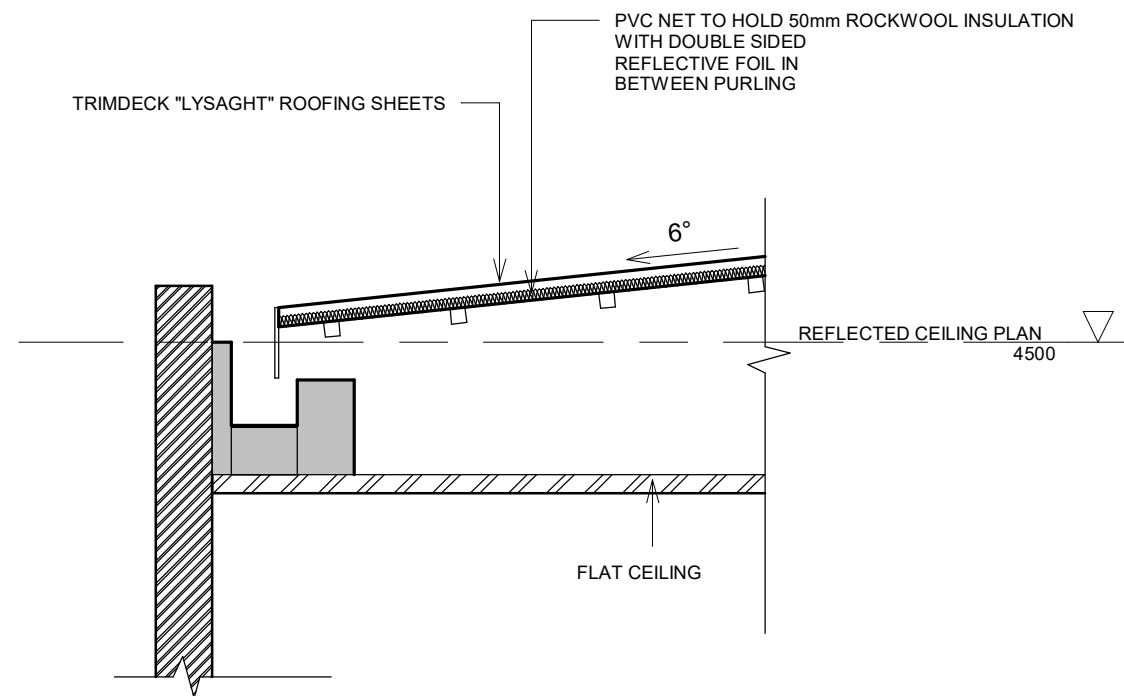
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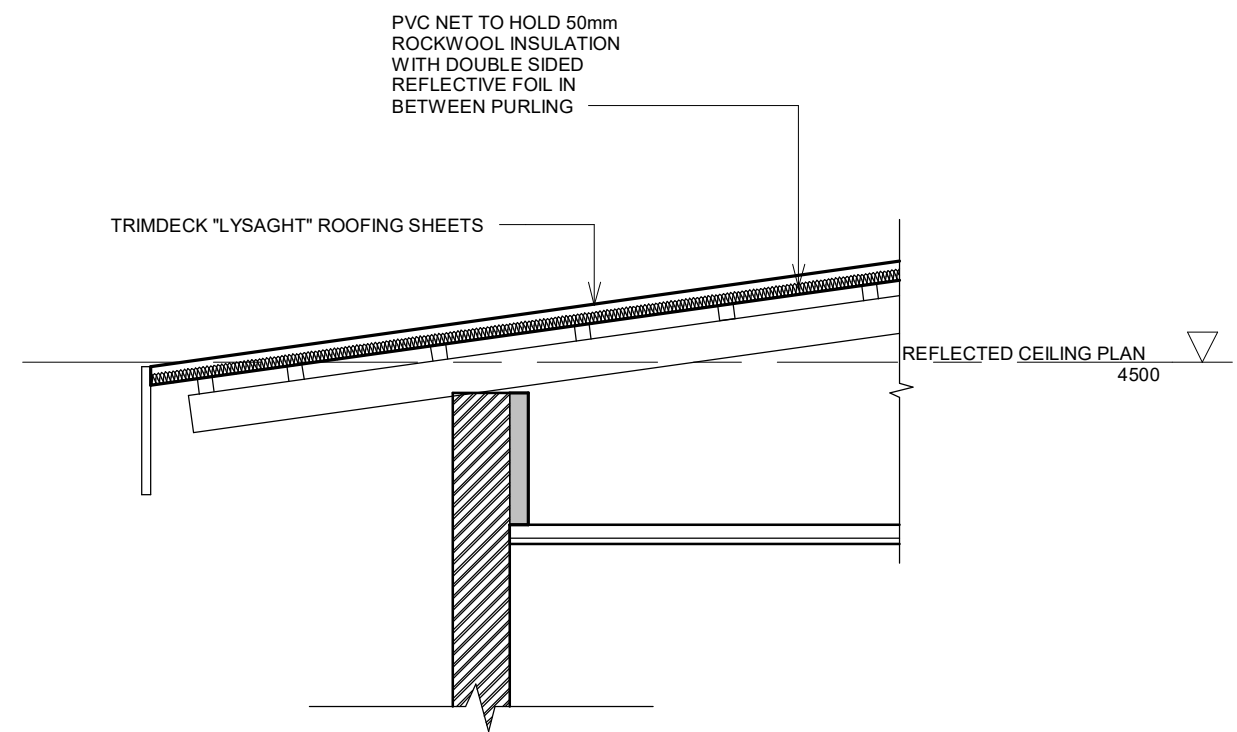
DECORATIVE INTERIOR COLUMN

1 : 25



GUTTER DETAIL 01

1 : 20



GUTTER DETAIL 02

1 : 20

GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
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REVISIONS

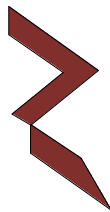
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY

CONSULTANT

LEAD CONSULTANT

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

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

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT Client: Ministry of Islamic Affairs

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

21/06/2024

DRAWING TITLES

INTERIOR & GUTTER DETAILS

SHEET SIZE A2

SCALE As indicated

SHEET NO.

AR-120

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REVISIONS

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

CONSULTANT

LEAD CONSULTANT

-

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



www.ryan.com.mv

CONSULTANT PROJECT NO: R24002MIA

ARCHITECT	Ismael Rasheed
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Akila Dithan
CHECKED BY	Zunabath Abdul Majid
APPROVED BY	-

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT	Client: Ministry of Islamic Affairs
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
ISSUED FOR	DO_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

21/06/2024

DRAWING TITLES

MINARET DETAILS

SHEET SIZE

A2

SCALE

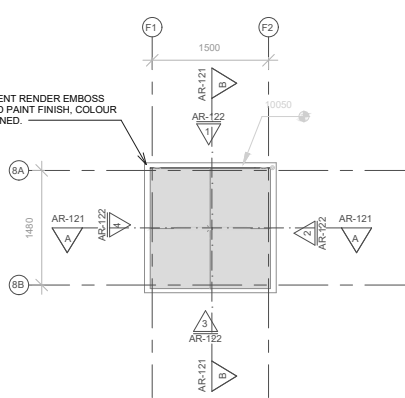
1 : 50

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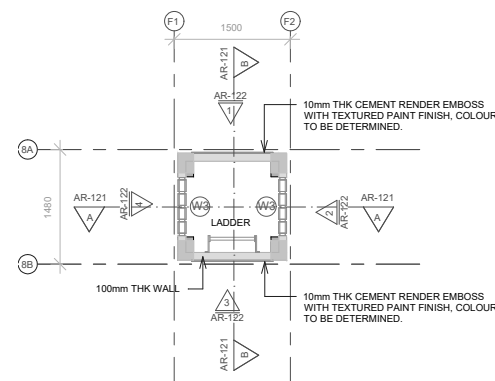
AR-121

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75mm THK CEMENT RENDER EMBOSS WITH TEXTURED PAINT FINISH, COLOUR TO BE DETERMINED.

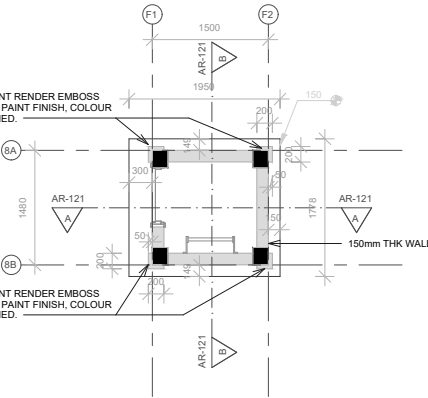


MINARET ROOF PLAN  
1 : 50



MINARET FIRST FLOOR LEVEL  
1 : 50

50mm THK CEMENT RENDER EMBOSS WITH TEXTURED PAINT FINISH, COLOUR TO BE DETERMINED.



MINARET PLAN  
1 : 50

75mm THK CEMENT RENDER EMBOSS WITH TEXTURED PAINT FINISH, COLOUR TO BE DETERMINED.

BEAM LEVEL 02

9000

150mm THK CONCRETE RENDER EMBOSS WITH TEXTURED PAINT FINISH, COLOUR TO BE DETERMINED.

ALUMINIUM PANEL / ACCESS HATCH COVER

LADDER

REFLECTED CEILING PLAN

4500

150mm THK WALL

15mm THK CEMENT RENDER EMBOSS WITH TEXTURED PAINT FINISH, COLOUR TO BE DETERMINED.

50mm THK CEMENT RENDER EMBOSS WITH TEXTURED PAINT FINISH, COLOUR TO BE DETERMINED.

150mm THK WALL

GROUND FLR. FIN. LVL

400

NATURAL GRADE LINE LVL

0

Section A  
1 : 50

ERITECH® DYNASPHERE AIR TERMINAL OR EQUIVALENT LIGHTNING ARRESTER

CHROME CRESCENT INSIDE METAL PANEL TO DESIGN

BEAM LEVEL 02

9000

150mm THK CONCRETE RENDER EMBOSS WITH TEXTURED PAINT FINISH, COLOUR TO BE DETERMINED.

ROOF APEX LEVEL

6900

REFLECTED CEILING PLAN

4500

50mm THK CEMENT RENDER EMBOSS WITH TEXTURED PAINT FINISH, COLOUR TO BE DETERMINED.

15mm THK CEMENT RENDER EMBOSS WITH TEXTURED PAINT FINISH, COLOUR TO BE DETERMINED.

LAVATA 25X3 CU SOLID TAPE ERITECH ERICORE OR EQUIVALENT DOWN CONDUCTOR

LIGHTNING EVENT COUNTER

GROUND FLR. FIN. LVL

400

NATURAL GRADE LINE LVL

0

EARTH ROD

18mm x 1.0 M DEEP

GROUND ROD (4 NOS)

Section B  
1 : 50

1/8 SPHERE AIR TERMINAL  
1 LIGHTNING ARRESTER

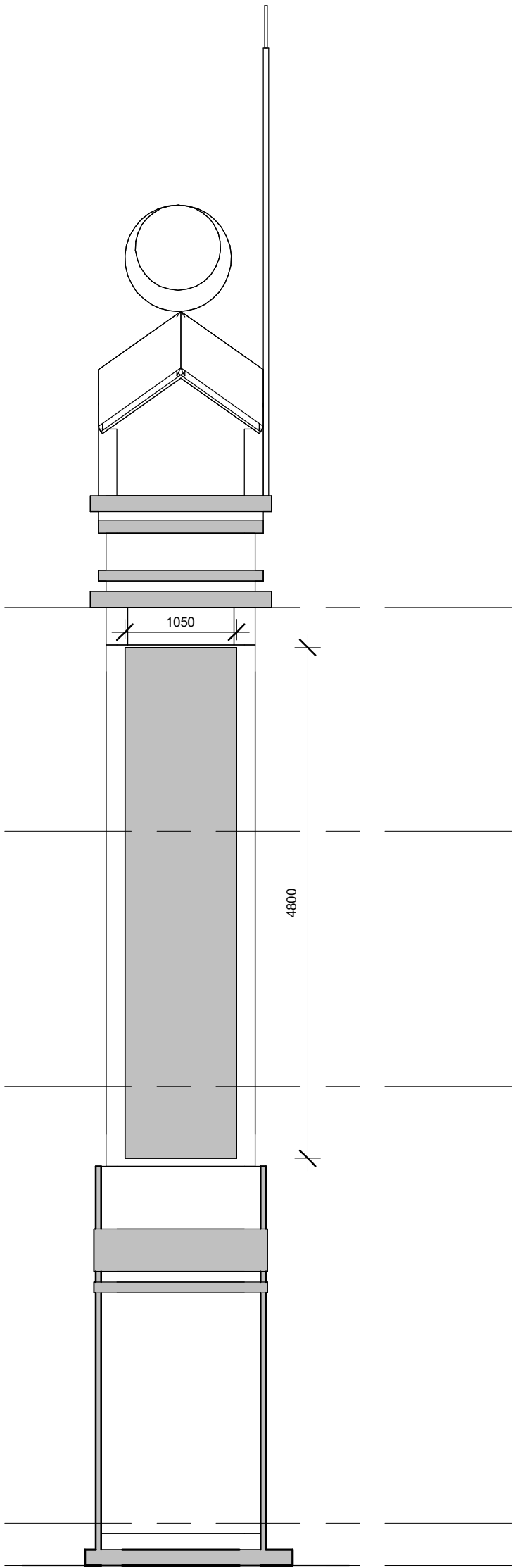
EMBOSSEMENT, COLOUR

EMBOSSEMENT, COLOUR

EMBOSSEMENT, COLOUR

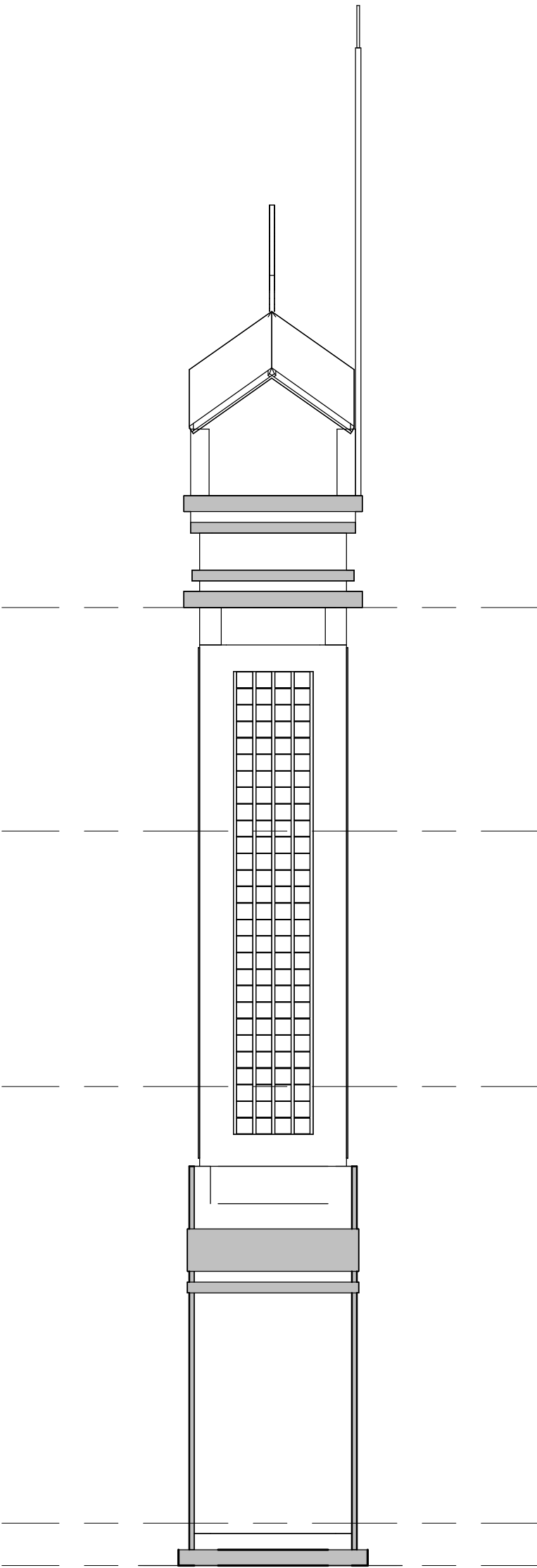
EMBOSSEMENT, COLOUR

3D VIEW 01



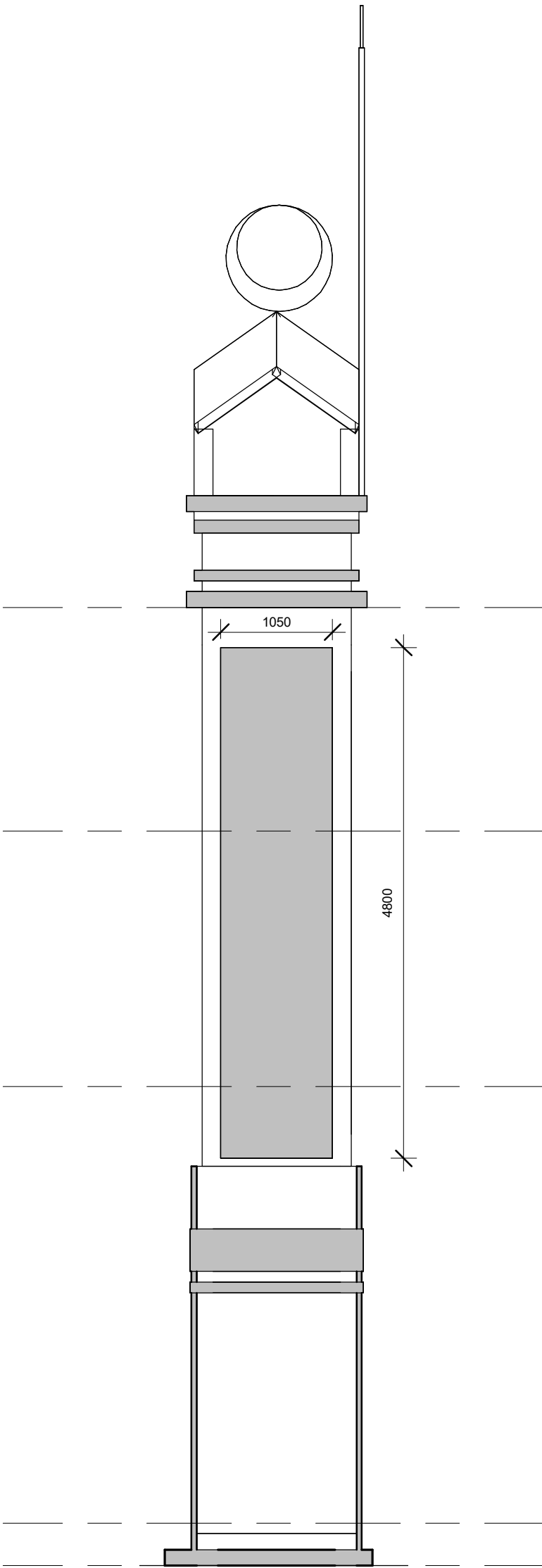
ELEVATION - E1

1 : 50



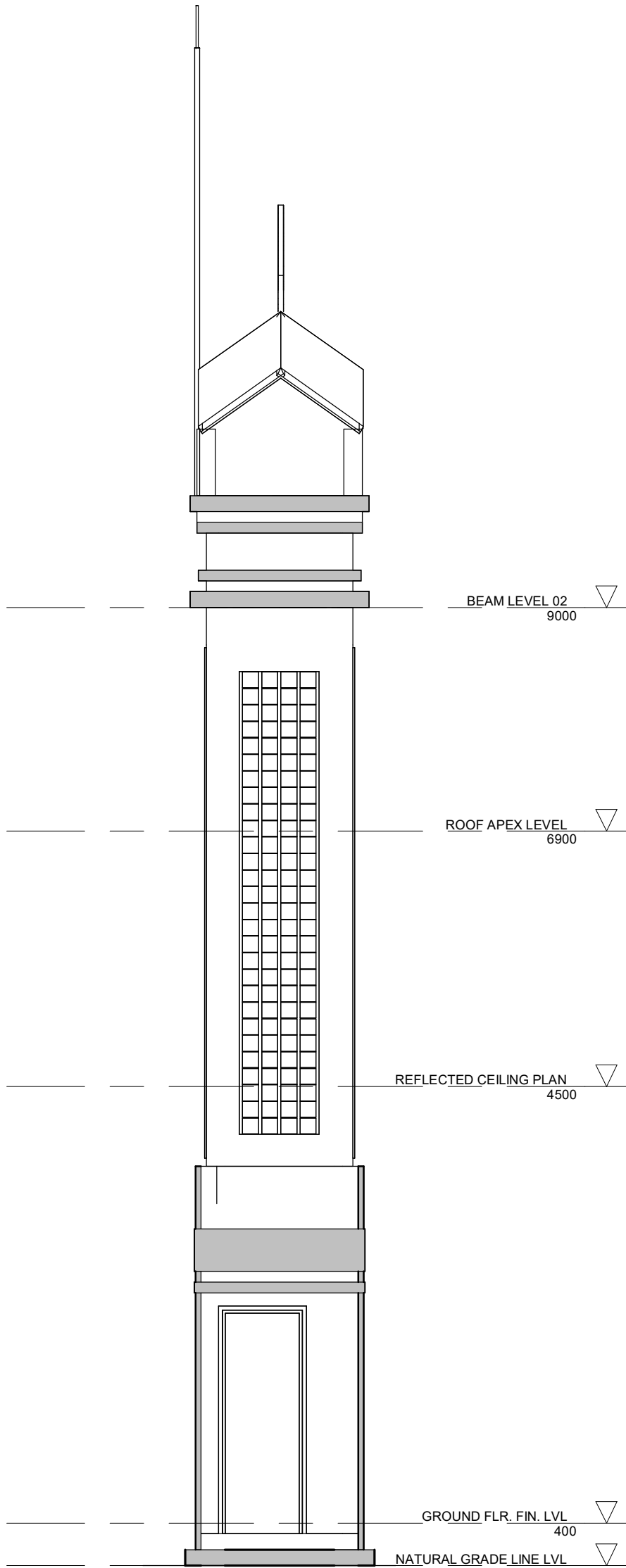
ELEVATION - E2

1 : 50



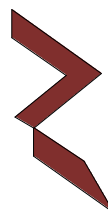
ELEVATION - E3

1 : 50



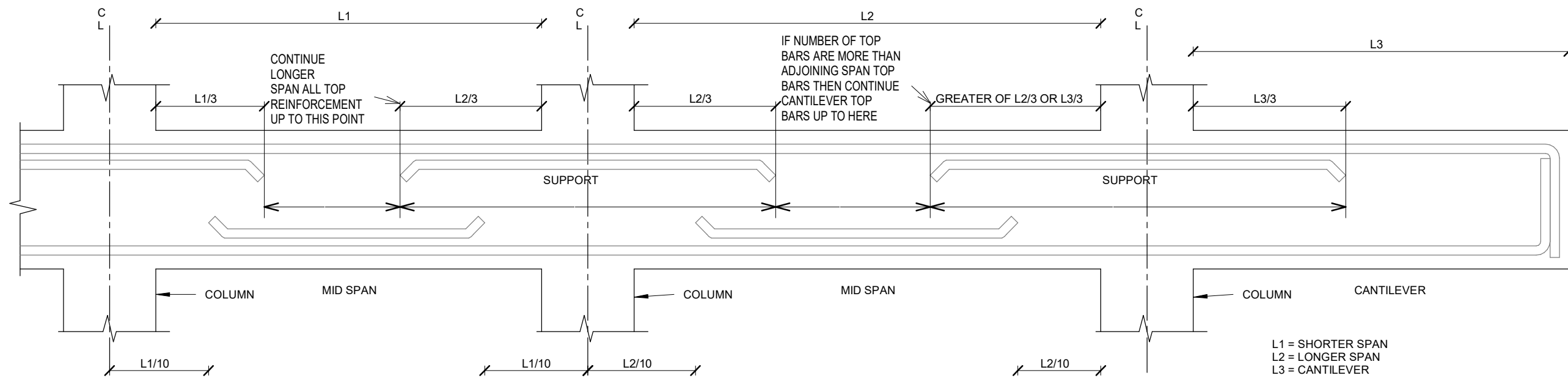
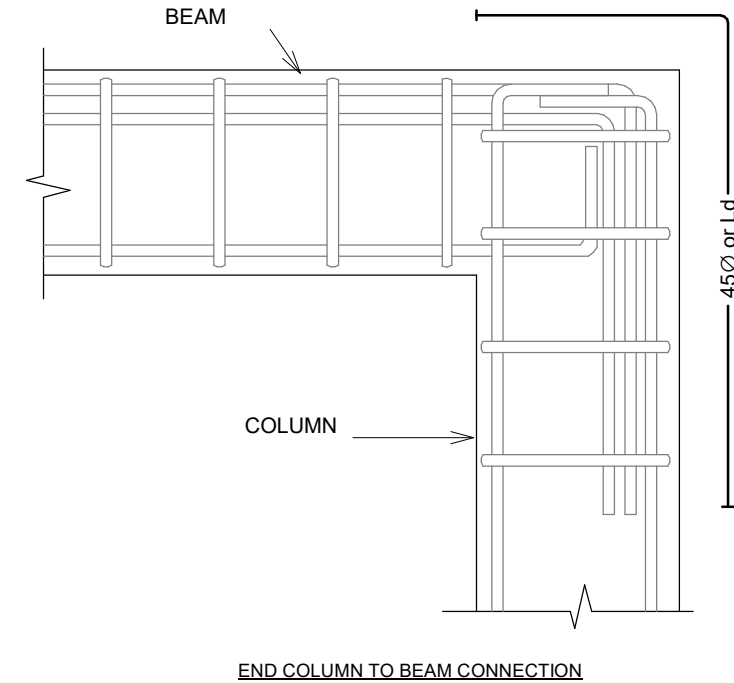
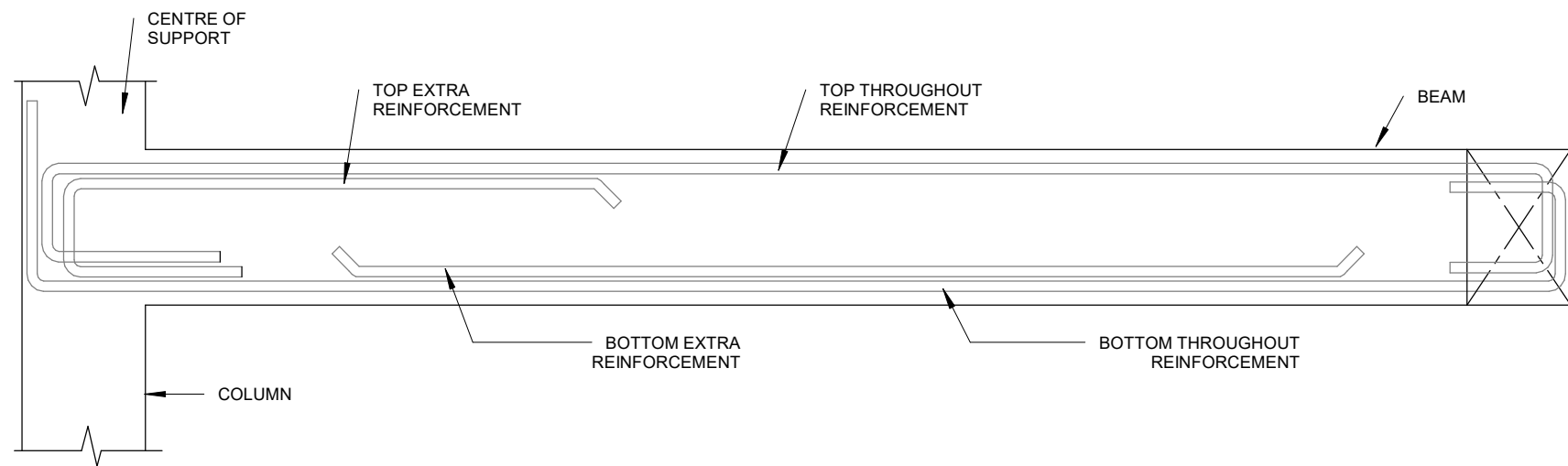
ELEVATION - E4

1 : 50

GENERAL NOTES				
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REVISIONS				
REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY
CONSULTANT				
LEAD CONSULTANT				
-				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div></div> <div>RIYAN PRIVATE LIMITED</div> <div>www.riyan.com.mv</div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque : 500 pax				
CLIENT	Client: Ministry of Islamic Affairs			
DEVELOPER	-			
ATOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			21/06/2024	
DRAWING TITLES				
MINARET DETAILS 2				
SHEET SIZE		A2	SCALE 1 : 50	
SHEET NO.				
AR-122				
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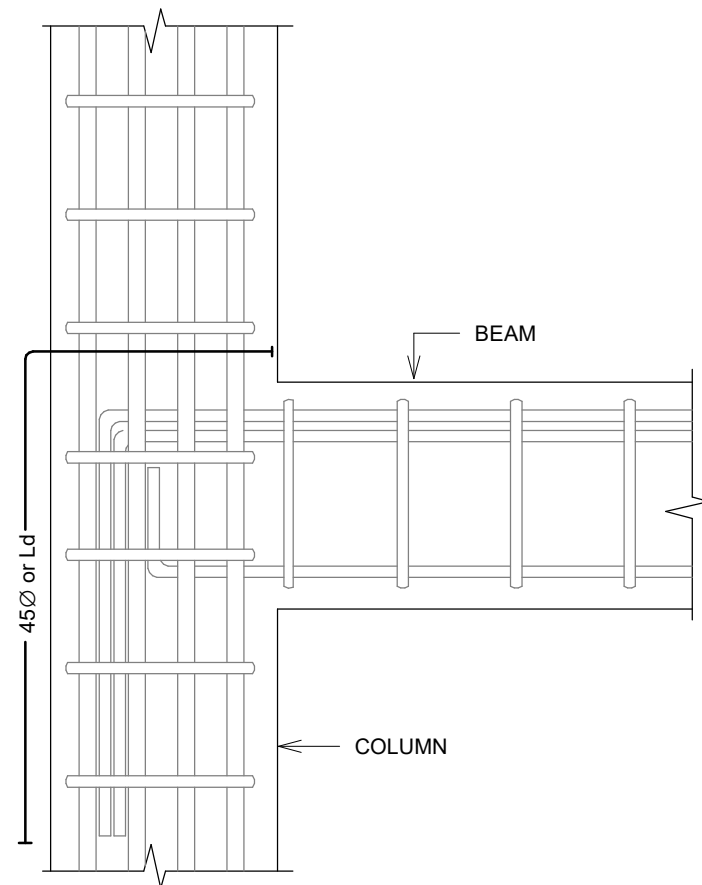


SIMPLIFIED DETAILING RULES FOR BEAMS.  
(BS8110-1)

NOTE:  
STANDARD DETAILS GIVEN HERE ALSO APPLIES TO FOUNDATION MEMBERS  
OTHER DETAILS NOT FOUND HERE SHALL BE REFEREED TO IN RELEVANT BS CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER

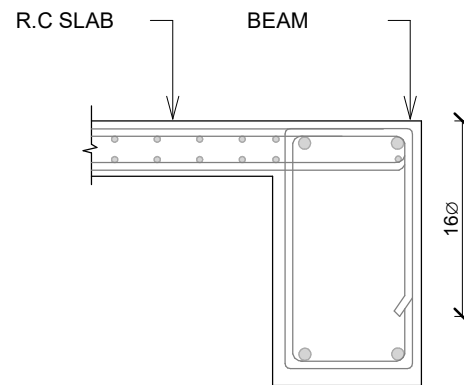
#### 18.0 SPACER BARS

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

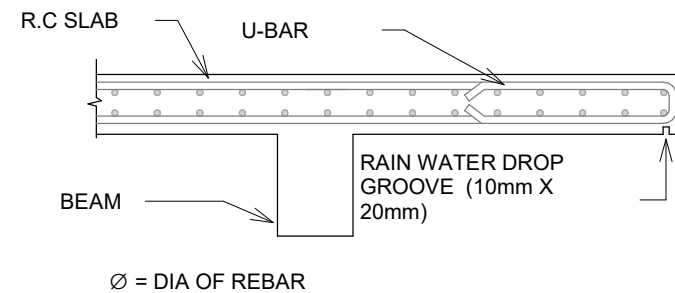


Ø = DIA OF REBAR

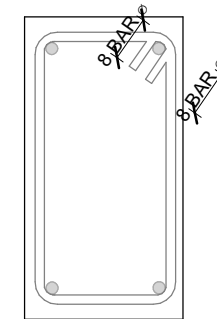
BEAM TO COLUMN CONNECTION



SLAB-BEAM ANCHORAGE DETAIL



CANTILEVERED SLAB EDGE DETAIL



Ø = DIA OF LINK

SHEAR LINKS ANCHORAGE DETAIL

#### GENERAL NOTES

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#### REVISIONS

REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

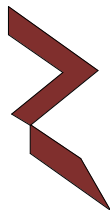
#### CONSULTANT

LEAD CONSULTANT

-

#### DESIGN CONSULTAN

#### REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

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

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

GENERAL NOTES 02

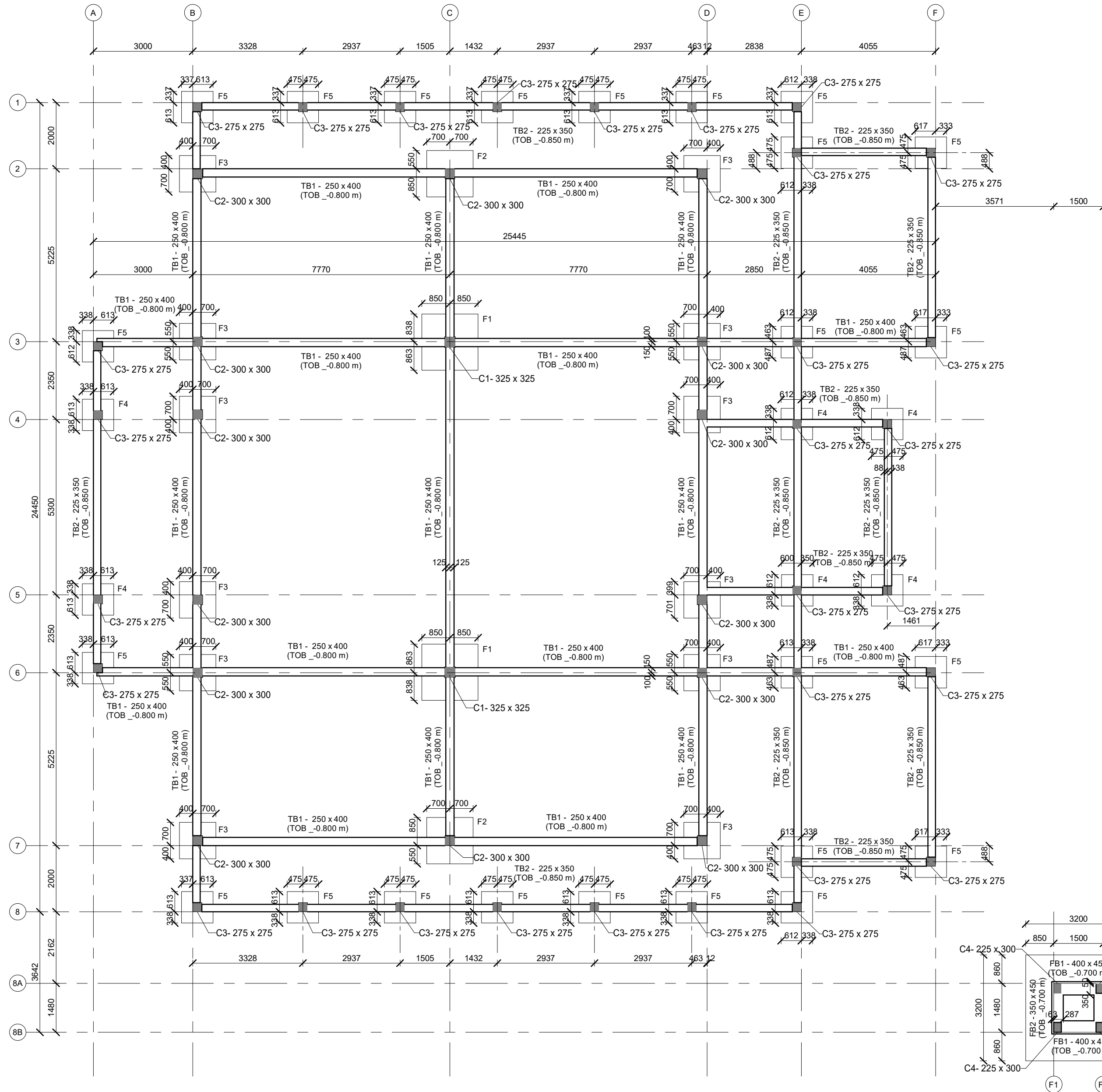
SHEET SIZE A2

SCALE 1 : 1

SHEET NO.

ST-01

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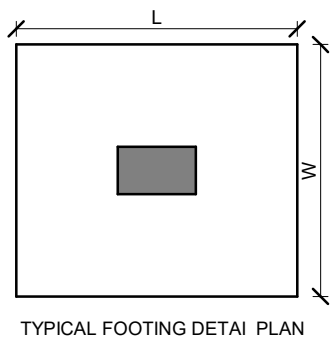
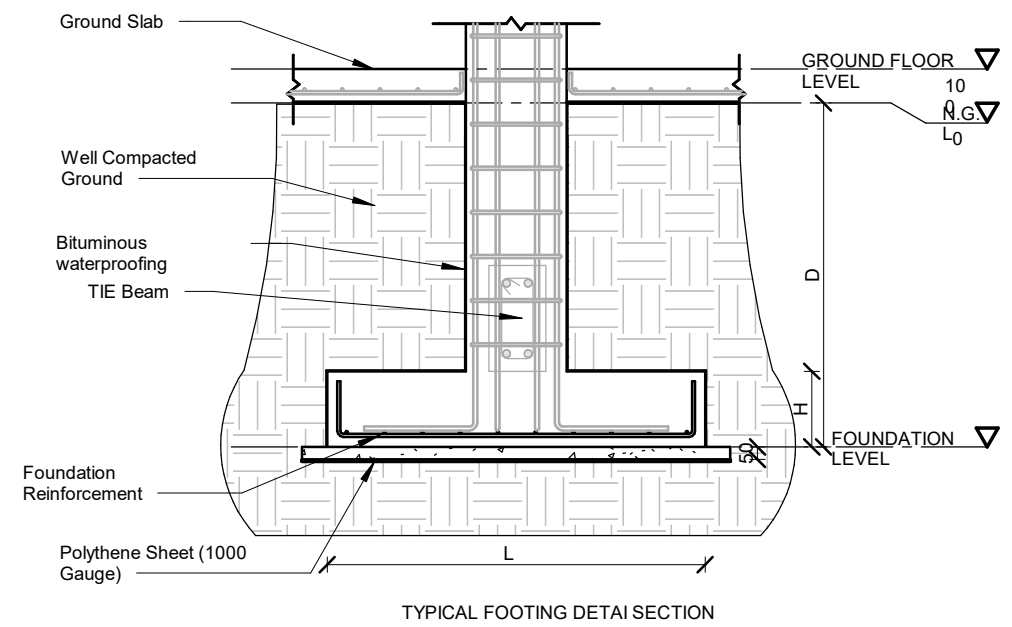
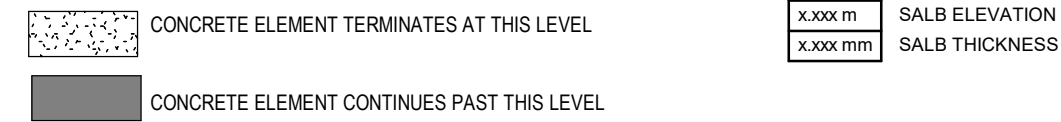


FOUNDATION PLAN

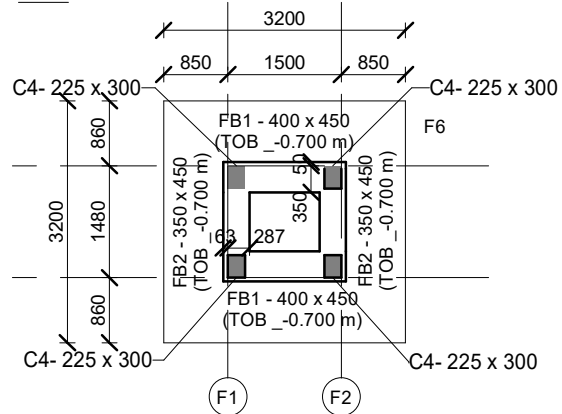
1 : 100

NOTES :

01. THE BEAM LABEL GIVEN IN THE DRAWINGS TO BE READ AS FOLLOWS. eg:400x800 (T.O.B\_XX) ,WIDTH-400mm, DEPTH-800mm,TOP OF BEAM
02. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.
03. CONCRETE GRADE FOR ALL ELEMENTS - C25  
FOR WATER RETAINING STRUCTURES - C30A
04. NO CONCRETE IS TO BE POURED UNTIL THE REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.
05. UNLESS OTHERWISE INDICATED MINIMUM LAP IN REINFORCEMENT TO BE 50 x SMALLER BAR DIAMETER AND ANCHORAGE LENGTH TO BE 50 x SMALLER BAR DIAMETER.
06. UNLESS OTHERWISE INDICATED CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS  
FOOTING & GROUND BEAMS - 50mm  
COLUMNS - 40mm  
WALLS - 30mm  
BEAMS - 40mm  
SLABS - 30mm  
ELEMENTS IN CONTACT WITH SOIL / WATER - 50 mm
07. CHARACTERISTIC STRENGTH OF REINFORCEMENT STEEL SHOULD NOT BE LESS THAN 460 N/mm².
08. COLUMNS, FOOTINGS AND BEAMS ARE SYMMETRICAL ABOUT GRID LINES ORCENTER LINES UNLESS OTHERWISE NOTED.
09. ALL SECONDARY CONCRETE FILLINGS SHALL BE DONE USING LIGHT WEIGHT CONCRETE.
10. REFER RELEVANT ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.
11. UNLESS OTHERWISE SPECIFIED ALL TOILETS/BALCONIES/TERRACE FLOORS SHALL BE SLOPED TO THE GULLIES AND SMOOTHLY FINISHED TO RECEIVED THE WATERPROOFING.



TYPE	LENGTH (L)	WIDTH (W)	THICKNESS (H)	DEPTH (D)	REINFORCEMENT (D)
F1	1700	1700	300	1500	T12@150 (C/C B/W)
F2	1400	1400	300	1500	T12@150 (C/C B/W)
F3	1100	1100	300	1500	T12@150 (C/C B/W)
F4	950	950	300	1500	T10@150 (C/C B/W)
F5	750	750	300	1500	T10@150 (C/C B/W)
F6	320	320	350	1500	T12@150 (C/C B/W T/B)



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REVISIONS

REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

CONSULTANT

LEAD CONSULTANT

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

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

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

FOUNDATION LEVEL GA PLAN AND FOUNDATION DETAILS

SHEET SIZE

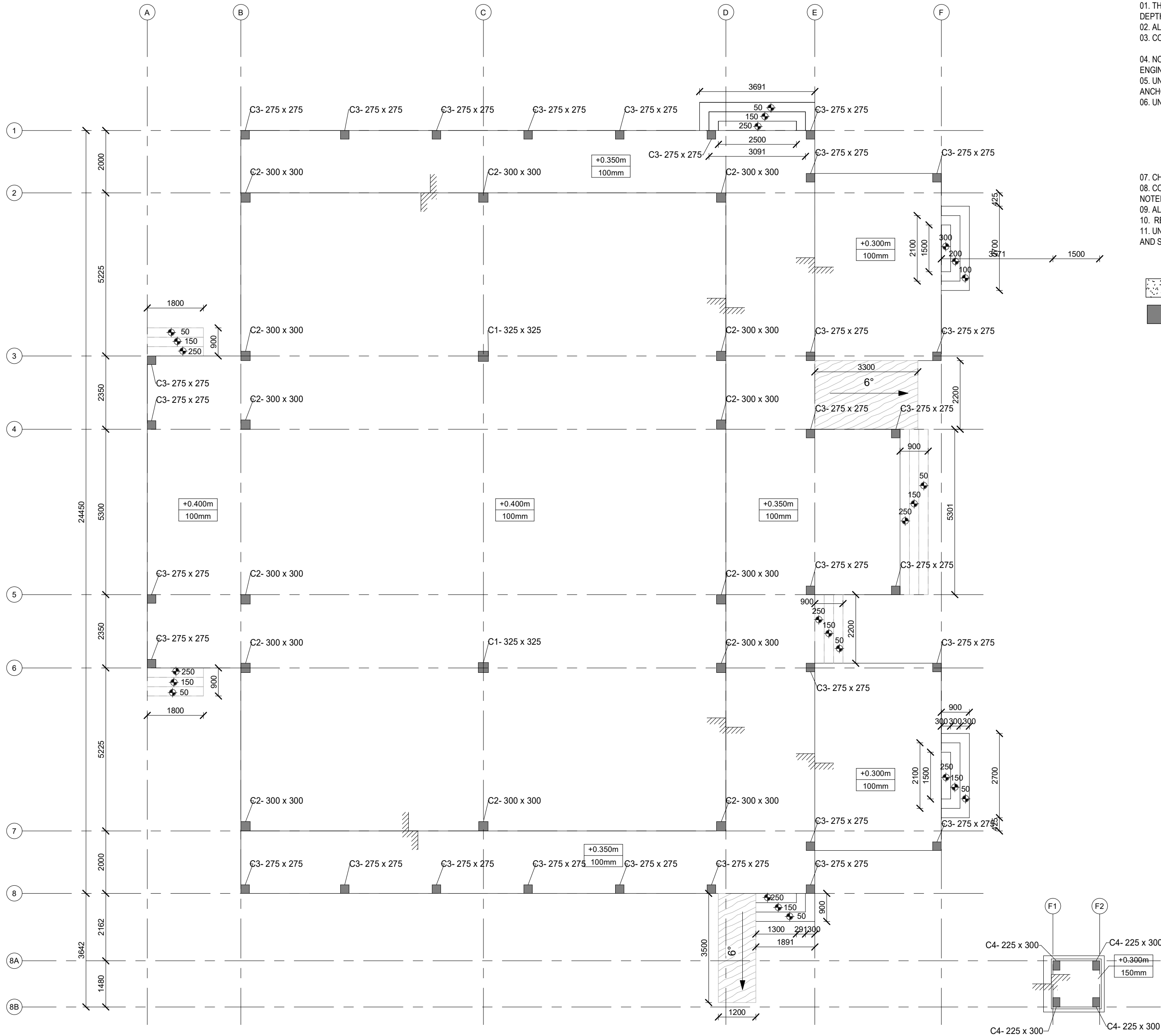
A2

SCALE As indicated

SHEET NO.

ST-100

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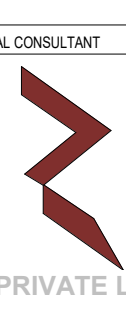


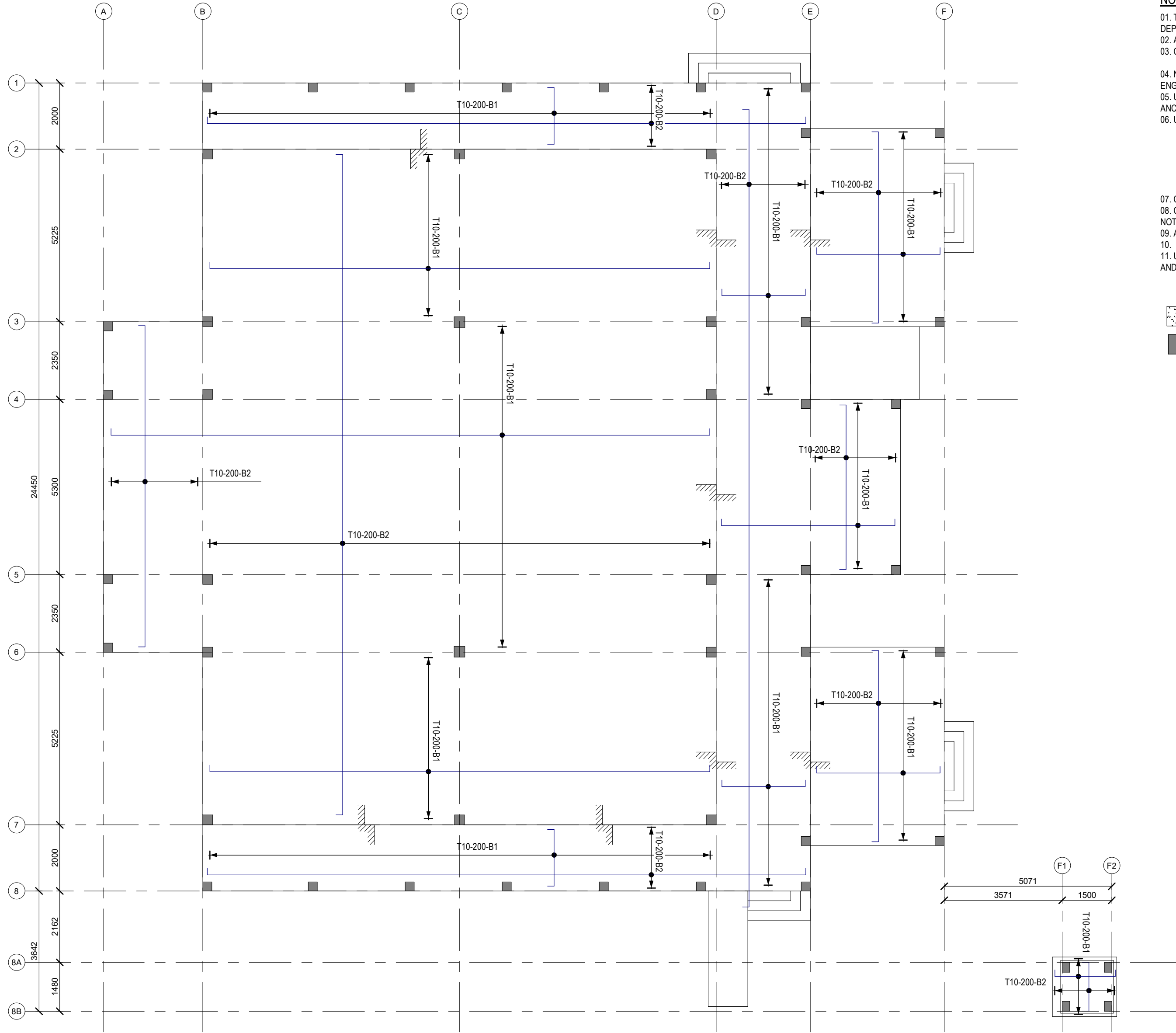
GROUND FLOOR PLAN  
1 : 100

NOTES :

01. THE BEAM LABEL GIVEN IN THE DRAWINGS TO BE READ AS FOLLOWS. eg:400x800 (T.O.B\_XX) ,WIDTH-400mm, DEPTH-800mm,TOP OF BEAM  
02. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.  
03. CONCRETE GRADE FOR ALL ELEMENTS - C25  
FOR WATER RETAINING STRUCTURES - C30A  
04. NO CONCRETE IS TO BE POURED UNTIL THE REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.  
05. UNLESS OTHERWISE INDICATED MINIMUM LAP IN REINFORCEMENT TO BE 50 x SMALLER BAR DIAMETER AND ANCHORAGE LENGTH TO BE 50 x SMALLER BAR DIAMETER.  
06. UNLESS OTHERWISE INDICATED CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS  
FOOTING & GROUND BEAMS - 50mm  
COLUMNS - 40mm  
WALLS - 30mm  
BEAMS - 40mm  
SLABS - 30mm  
ELEMENTS IN CONTACT WITH SOIL / WATER - 50 mm  
07. CHARACTERISTIC STRENGTH OF REINFORCEMENT STEEL SHOULD NOT BE LESS THAN 460 N/mm².  
08. COLUMNS, FOOTINGS AND BEAMS ARE SYMMETRICAL ABOUT GRID LINES ORCENTER LINES UNLESS OTHERWISE NOTED.  
09. ALL SECONDARY CONCRETE FILLINGS SHALL BE DONE USING LIGHT WEIGHT CONCRETE.  
10. REFER RELEVANT ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.  
11. UNLESS OTHERWISE SPECIFIED ALL TOILETS/BALCONIES/TERRACE FLOORS SHALL BE SLOPED TO THE GULLIES AND SMOOTHLY FINISHED TO RECEIVED THE WATERPROOFING.

- CONCRETE ELEMENT TERMINATES AT THIS LEVEL  
CONCRETE ELEMENT CONTINUES PAST THIS LEVEL  
x.xxx m SALB ELEVATION  
x.xxx mm SALB THICKNESS

GENERAL NOTES				
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REVISIONS				
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY
CONSULTANT				
LEAD CONSULTANT				
-				
DESIGN CONSULTAN				
REGISTERED LOCAL CONSULTANT				
<div><div>RIYAN PRIVATE LIMITED</div><div>www.riyan.com.mv</div></div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque				
CLIENT				
MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER				
-				
ATOLL				
_____				
ISLAND				
_____				
LAGOON (GPS COORDINATES)				
-				
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			18/05/2024	
DRAWING TITLES				
GROUND FLOOR LEVEL GA PLAN				
SHEET SIZE		A2	SCALE	
			As indicated	
SHEET NO.				
ST-101				
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GROUND FLOOR PLAN  
1 : 100

NOTES :

01. THE BEAM LABEL GIVEN IN THE DRAWINGS TO BE READ AS FOLLOWS. eg.400x800 (T.O.B\_XX) ,WIDTH-400mm, DEPTH-800mm,TOP OF BEAM  
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FOOTING & GROUND BEAMS - 50mm  
COLUMNS - 40mm  
WALLS - 30mm  
BEAMS - 40mm  
SLABS - 30mm  
ELEMENTS IN CONTACT WITH SOIL / WATER - 50 mm  
07. CHARACTERISTIC STRENGTH OF REINFORCEMENT STEEL SHOULD NOT BE LESS THAN 460 N/mm².  
08. COLUMNS, FOOTINGS AND BEAMS ARE SYMMETRICAL ABOUT GRID LINES ORCENTER LINES UNLESS OTHERWISE NOTED.  
09. ALL SECONDARY CONCRETE FILLINGS SHALL BE DONE USING LIGHT WEIGHT CONCRETE.  
10. REFER RELEVANT ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.  
11. UNLESS OTHERWISE SPECIFIED ALL TOILETS/BALCONIES/TERRACE FLOORS SHALL BE SLOPED TO THE GULLIES AND SMOOTHLY FINISHED TO RECEIVED THE WATERPROOFING.

CONCRETE ELEMENT TERMINATES AT THIS LEVEL

CONCRETE ELEMENT CONTINUES PAST THIS LEVEL

x.xxx m

SALB ELEVATION

x.xxx mm

SALB THICKNESS

NOTE:-  
REINFORCEMENT : T10@200C/C B/W (SINGLE LAYER, AS SHOWN)  
REINFORCEMENT DISCONTINUOUS OVER VOIDS  
TOP COVER - 30mm  
BOTTOM COVER - 50mm

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

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DESIGN CONSULTAN

REGISTERED LOCAL CONSULTANT

RIYAN PRIVATE LIMITED

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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Akila Dilshan
CHECKED BY	Zunabath Abdul Majid
APPROVED BY	

PROJECT NAME

Prototype Mosque

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

-

ATOLL

---

ISLAND

---

LAGOON (GPS COORDINATES)

-

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

GROUND FLOOR R/F PLAN

SHEET SIZE

A2

SCALE

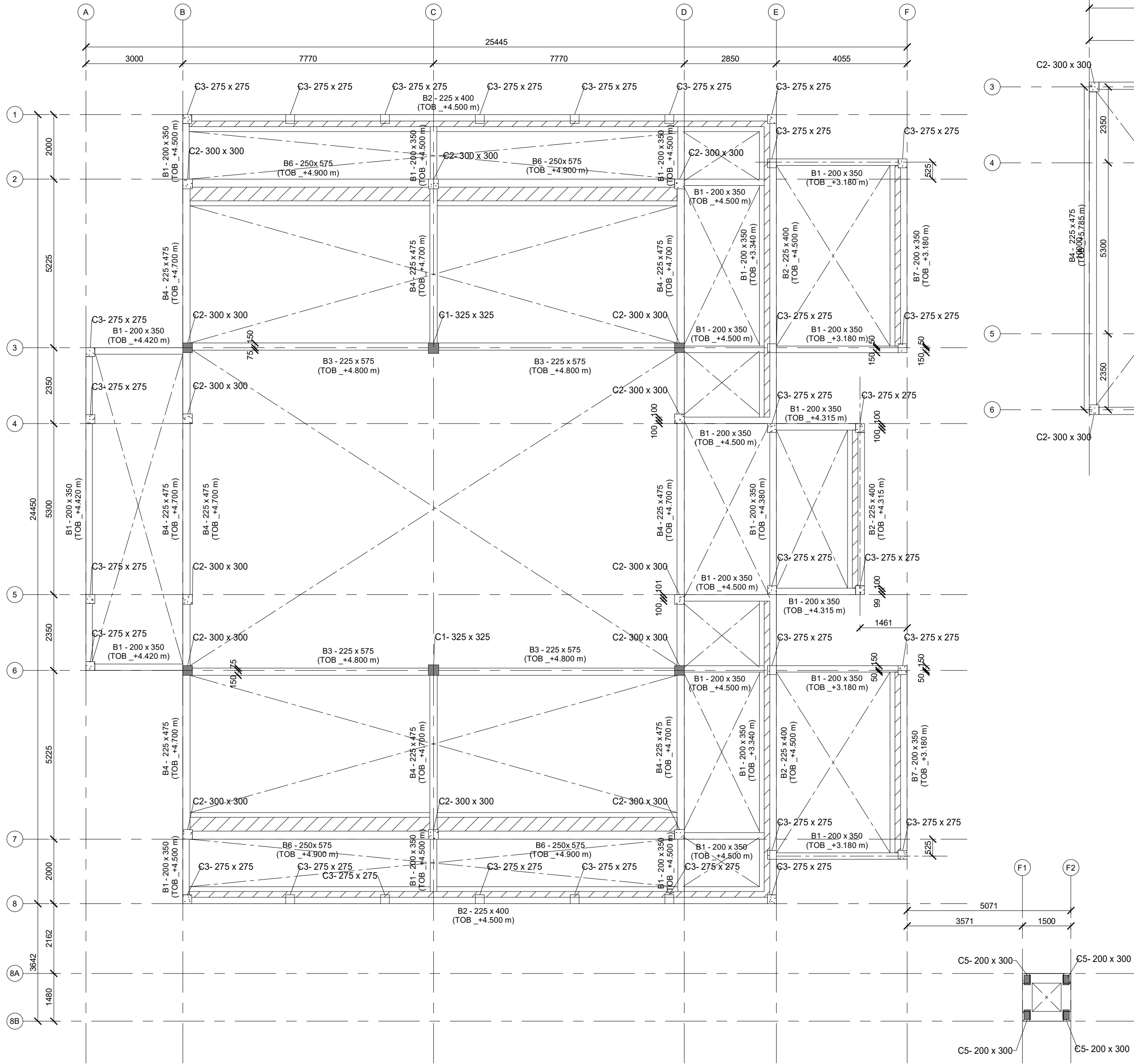
As indicated

SHEET NO.

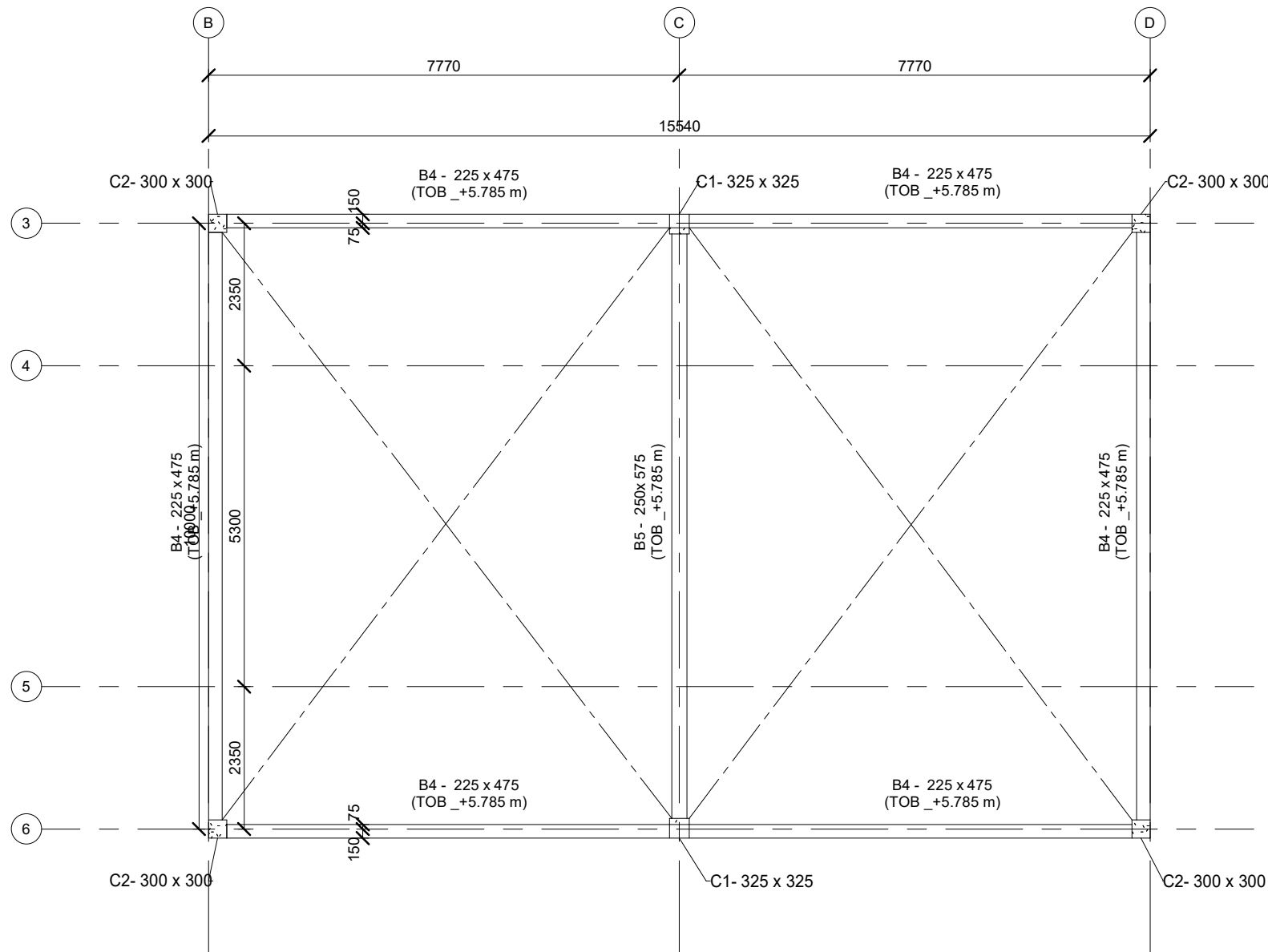
ST-102

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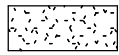
1ST FLOOR PLAN  
1 : 100



1ST FLOOR PLAN TOP  
1 : 100

NOTES :

01. THE BEAM LABEL GIVEN IN THE DRAWINGS TO BE READ AS FOLLOWS. eg:400x800 (T.O.B\_XX) ,WIDTH-400mm, DEPTH-800mm,TOP OF BEAM
02. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.
03. CONCRETE GRADE FOR ALL ELEMENTS - C25  
FOR WATER RETAINING STRUCTURES - C30A
04. NO CONCRETE IS TO BE POURED UNTIL THE REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.
05. UNLESS OTHERWISE INDICATED MINIMUM LAP IN REINFORCEMENT TO BE 50 x SMALLER BAR DIAMETER AND ANCHORAGE LENGTH TO BE 50 x SMALLER BAR DIAMETER.
06. UNLESS OTHERWISE INDICATED CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS  
FOOTING & GROUND BEAMS - 50mm  
COLUMNS - 40mm  
WALLS - 30mm  
BEAMS - 40mm  
SLABS - 30mm  
ELEMENTS IN CONTACT WITH SOIL / WATER - 50 mm
07. CHARACTERISTIC STRENGTH OF REINFORCEMENT STEEL SHOULD NOT BE LESS THAN 460 N/mm².
08. COLUMNS, FOOTINGS AND BEAMS ARE SYMMETRICAL ABOUT GRID LINES OR CENTER LINES UNLESS OTHERWISE NOTED.
09. ALL SECONDARY CONCRETE FILLINGS SHALL BE DONE USING LIGHT WEIGHT CONCRETE.
10. REFER RELEVANT ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.
11. UNLESS OTHERWISE SPECIFIED ALL TOILETS/BALCONIES/TERRACE FLOORS SHALL BE SLOPED TO THE GULLIES AND SMOOTHLY FINISHED TO RECEIVED THE WATERPROOFING.



CONCRETE ELEMENT TERMINATES AT THIS LEVEL



CONCRETE ELEMENT CONTINUES PAST THIS LEVEL

x.xxx mm

SALB ELEVATION

x.xxx mm

SALB THICKNESS

GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
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- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.

REVISIONS

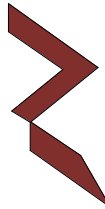
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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Akila Dilshan
CHECKED BY	Zunabeth Abdul Majid
APPROVED BY	

PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

1ST FLOOR LEVEL GA

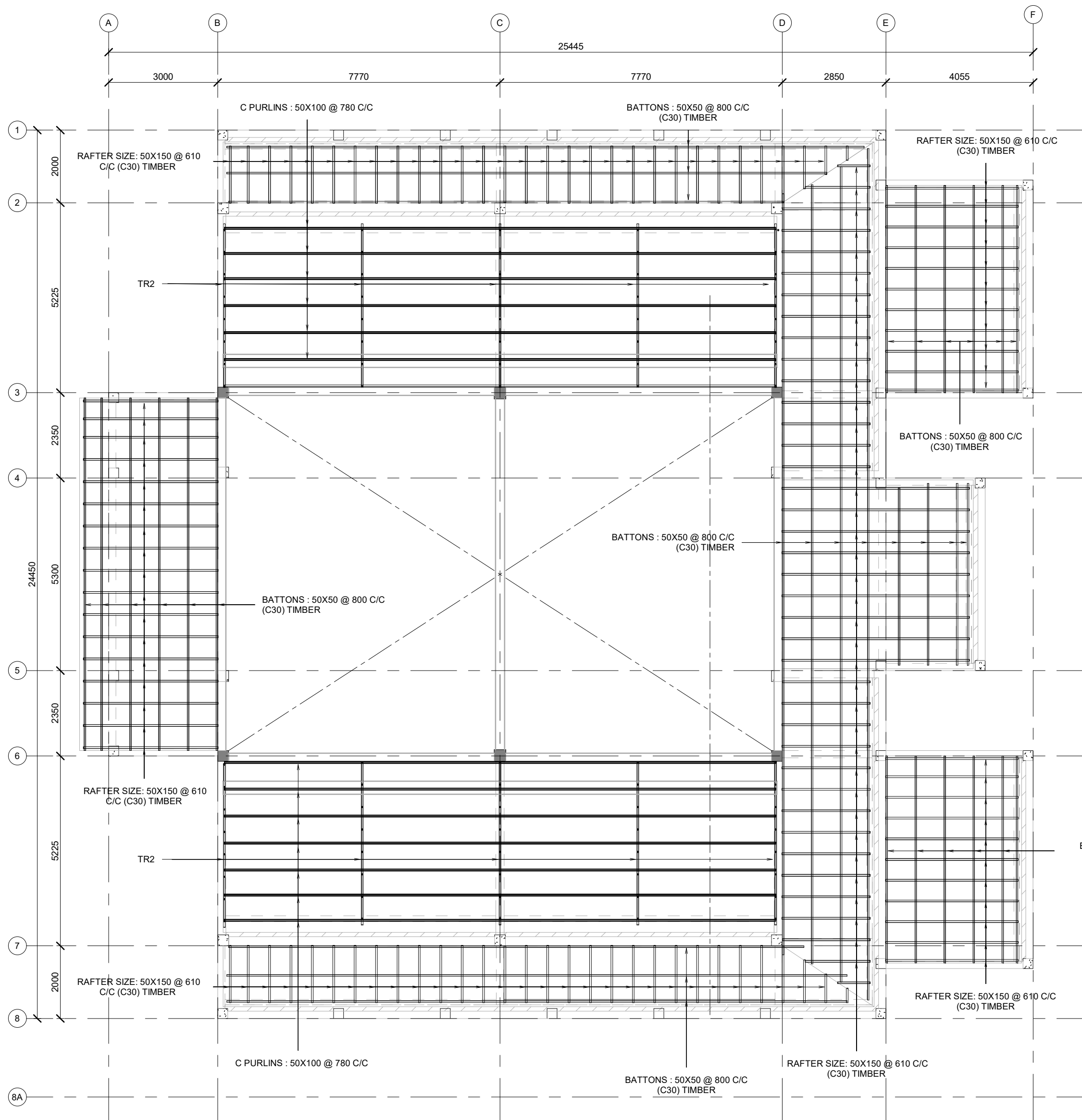
SHEET SIZE A2

SCALE As Indicated

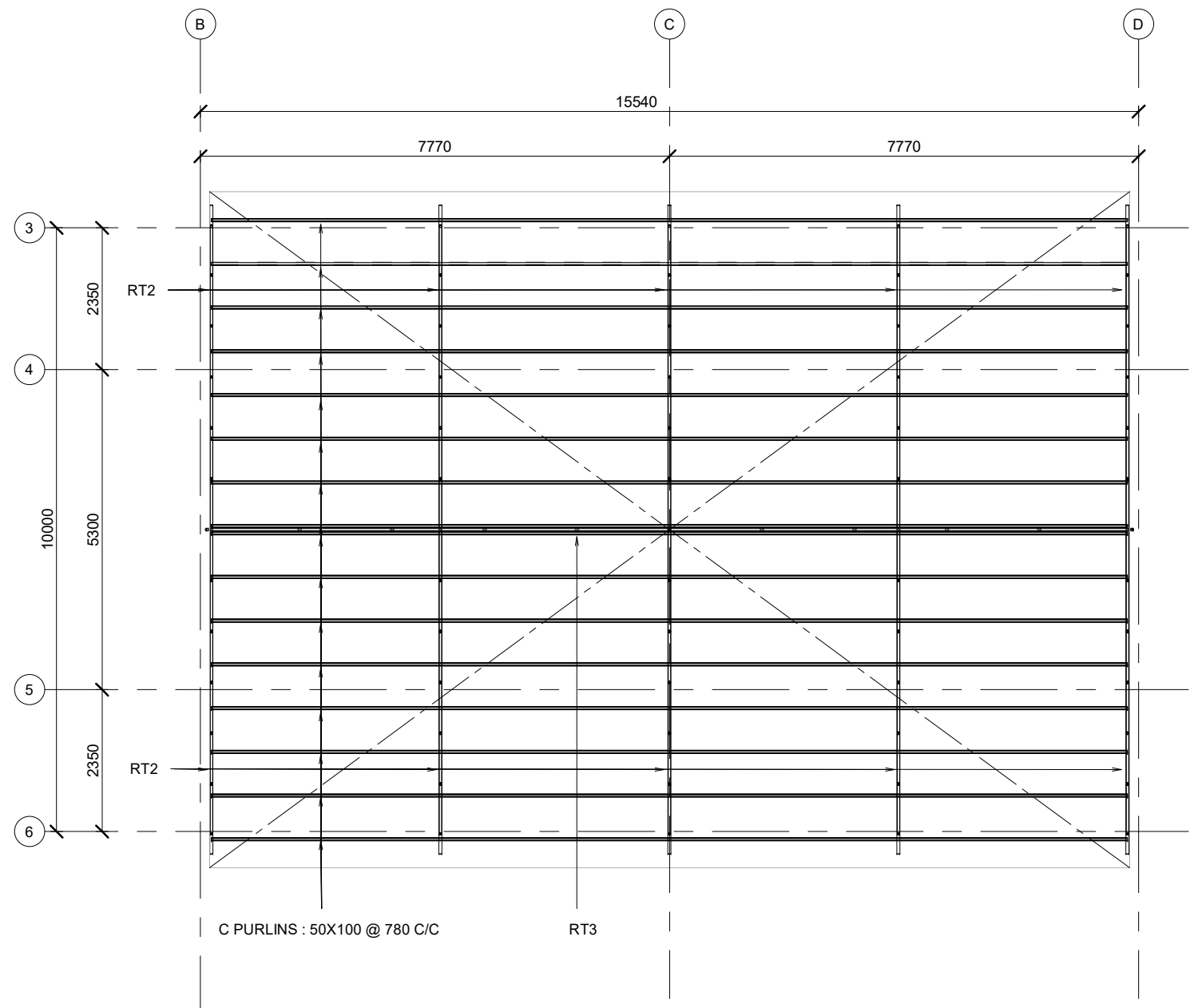
SHEET NO.

ST-103

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1 1ST FLOOR PLAN  
1 : 100



2 1ST FLOOR PLAN  
1 : 100

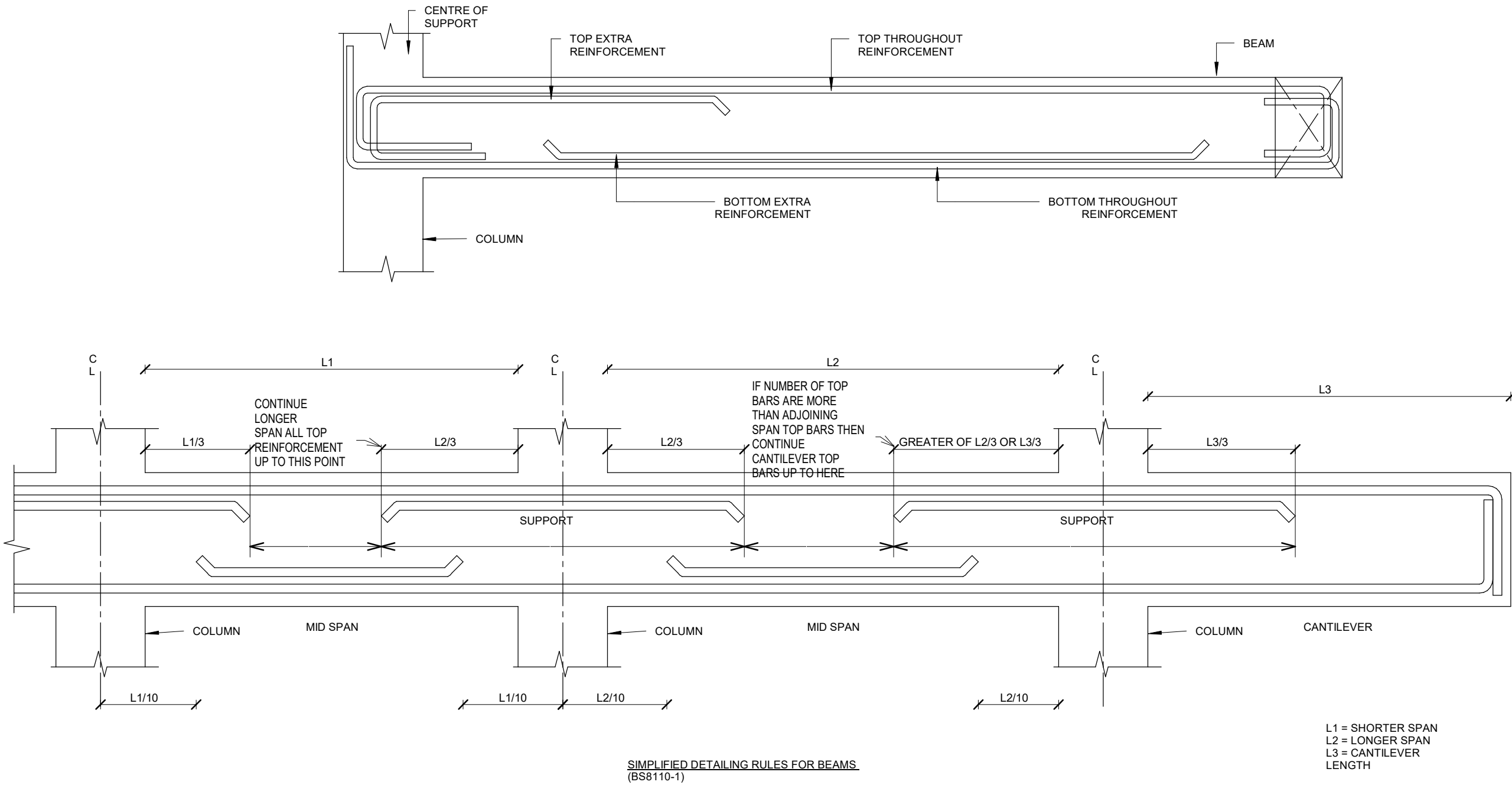
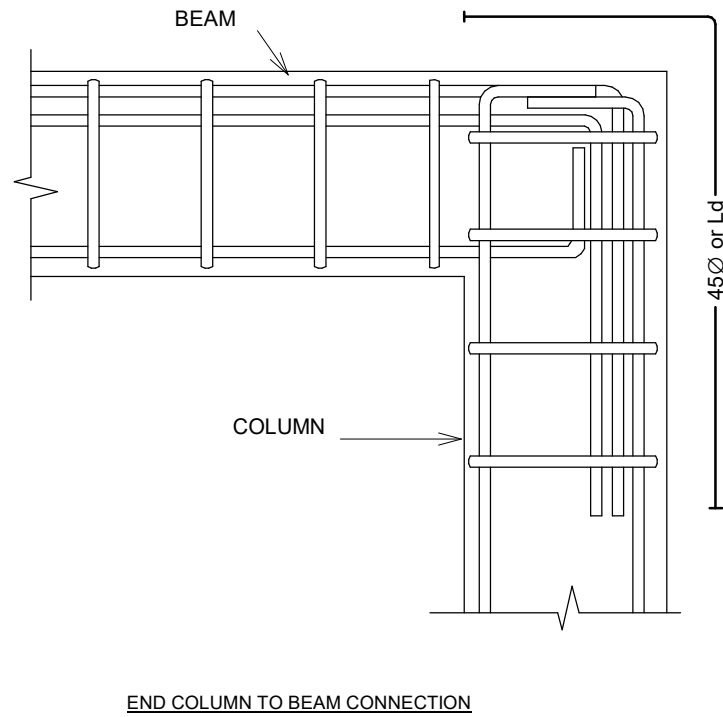
NOTE  
FOR ALL RIDGE, ROOF RAFTERS, HIP, BATTENS  
ARE TIMBER C30 GRADE

GENERAL NOTES				
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DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
				
RIYAN PRIVATE LIMITED				
www.riyan.com.mv				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque				
CLIENT				
MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER				
-				
ATOLL				
_____				
ISLAND				
_____				
LAGOON (GPS COORDINATES)				
-				
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			18/05/2024	
DRAWING TITLES				
ROOF PLAN VIEW				
SHEET SIZE		A2	SCALE	As indicated
SHEET NO.				
ST-104				
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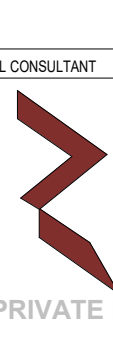
BEAM NUMBER	SUPPORT REINFORCEMENT	SPAN REINFORCEMENT
TB 1		
TB 2		
B1		
B3		
B4		
B5		
B2 / GUB2		
B7 / GUB7		
B6 / GUB6		
B6 / GUB6		

BEAM DETAILS  
1 : 25

FB1		
FB2		
MB1		
MB2		



SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)  
1 : 1

GENERAL NOTES				
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REVISIONS				
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY
CONSULTANT				
LEAD CONSULTANT				
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DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div><div>RIYAN PRIVATE LIMITED</div><div>www.riyan.com.mv</div></div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabeth Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque				

TYPICAL COLUMN LINK DETAILS 01  
N.T.S

TYPICAL STAIRCASE  
1 : 20

5 COLUMN DETAILS  
1 : 20


TR1  
1 : 30

TR3  
1 : 40

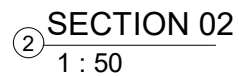
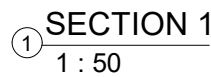
TR2  
1 : 20


## RAMP DETAILS

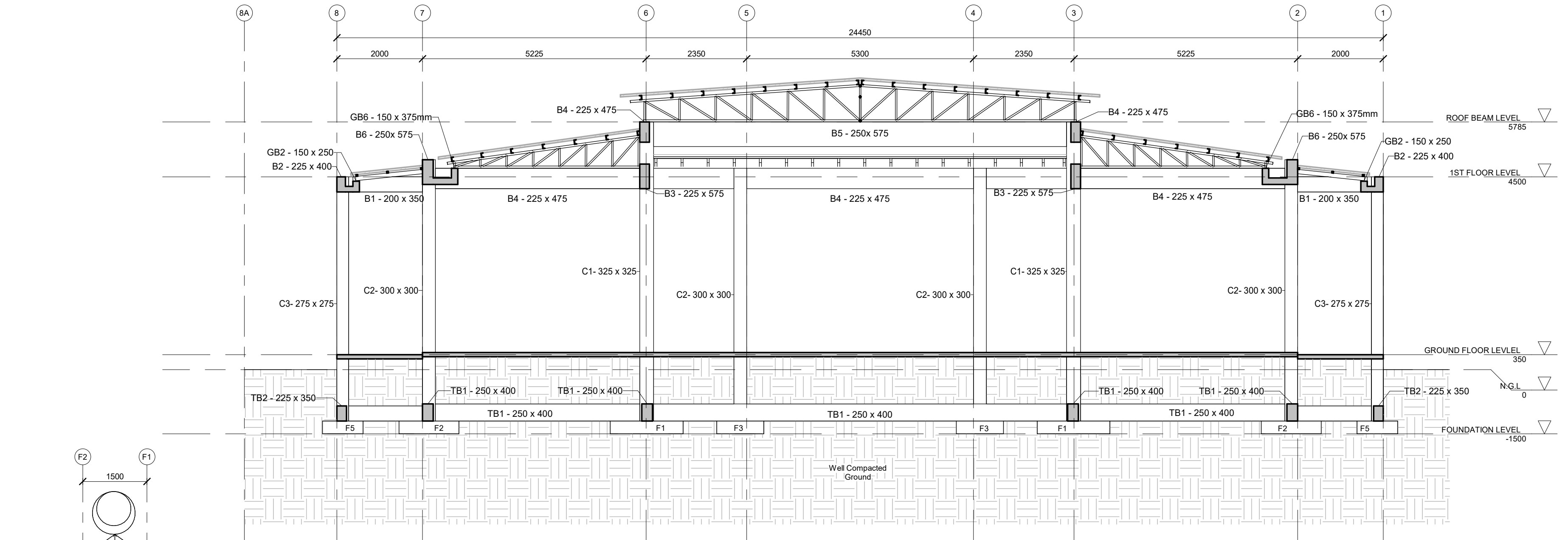
1 : 25

GENERAL NOTES					
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REVIEWS					
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY	
CONSULTANT					
LEAD CONSULTANT					
-					
DESIGN CONSULTANT					
REGISTERED LOCAL CONSULTANT					
<div><p>RIYON PRIVATE LIMITED</p><p>www.riyan.com.mv</p></div>					
CONSULTANT PROJECT NO. R24002MIA					
ARCHITECT	Ismail Rasheed				
CIVIL ENGINEER	Mohamed Muthalib Waleed				
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I				
INT. DESIGNER	-				
INFRA DESIGNER	-				
DRAWN BY	Akila Dilshan				
CHECKED BY	Zunabath Abdul Majid				
APPROVED BY					
PROJECT NAME					
Prototype Mosque					
CLIENT	MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER	-				
ATOLL	_____				
ISLAND	_____				
LAGOON (GPS COORDINATES)	- - - - -				
ISSUED FOR					
DD_DETAIL DESIGN					
BUILDING NAME					
Mosque for 500 pax					
BUILDING/STRUCTURE NO.			ISSUE DATE		
			18/05/2024		
DRAWING TITLES					
STAIRCASE AND COLUMNS DETAILS					
SHEET SIZE		A2		SCALE As indicated	
SHEET NO.					
ST-106					
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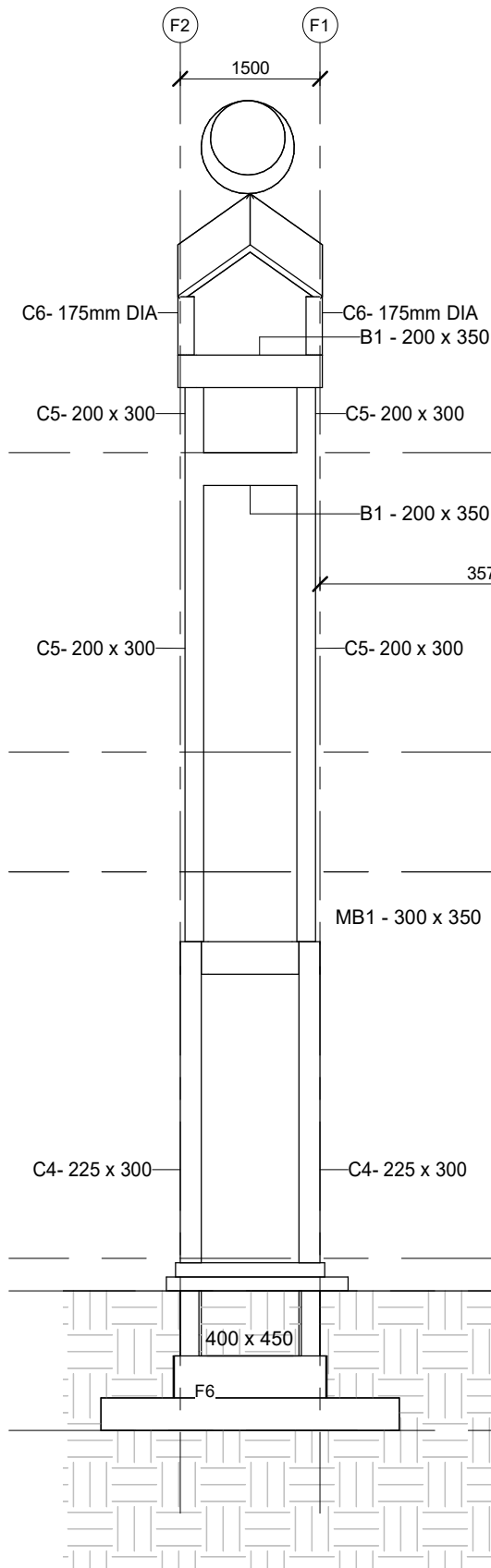




GENERAL NOTES					
<ul style="list-style-type: none"><li>- DO NOT SCALE FROM THIS DRAWING.</li><li>- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.</li><li>- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.</li><li>- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.</li></ul>					
REVISIONS					
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CONSULTANT					
LEAD CONSULTANT					
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DESIGN CONSULTANT					
REGISTERED LOCAL CONSULTANT					
 <b>RYAN PRIVATE LIMITED</b> www.riyan.com.mv					
CONSULTANT PROJECT NO. <b>R24002MIA</b>					
ARCHITECT	<b>Ismail Rasheed</b>				
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>				
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.I</b>				
INT. DESIGNER	-				
INFRA. DESIGNER	..				
DRAWN BY	<b>Akila Dilshan</b>				
CHECKED BY	<b>Zunabath Abdul Majid</b>				
APPROVED BY					
PROJECT NAME					
<b>Prototype Mosque</b>					
CLIENT					
<b>MINISTRY OF ISLAMIC AFFAIRS</b>					
DEVELOPER					
-					
ATOLL					
_____					
LAGOON					
_____					
ISLAND (GPS COORDINATES)					
-					
ISSUED FOR					
<b>DD_DETAIL DESIGN</b>					
BUILDING NAME					
<b>Mosque for 500 pax</b>					
BUILDING/STRUCTURE NO.			ISSUE DATE		
			<b>18/05/2024</b>		
DRAWING TITLES					
<b>MINARET DETAILS</b>					
SHEET SIZE		A2	SCALE		<b>1 : 50</b>
SHEET NO.					
<b>ST-107</b>					
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SECTION 01  
1 : 75



SECTION 02  
1 : 75

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REVISIONS

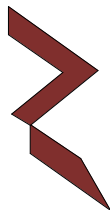
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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Akila Dilshan
CHECKED BY	Zunabeth Abdul Majid
APPROVED BY	

PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

SECTION

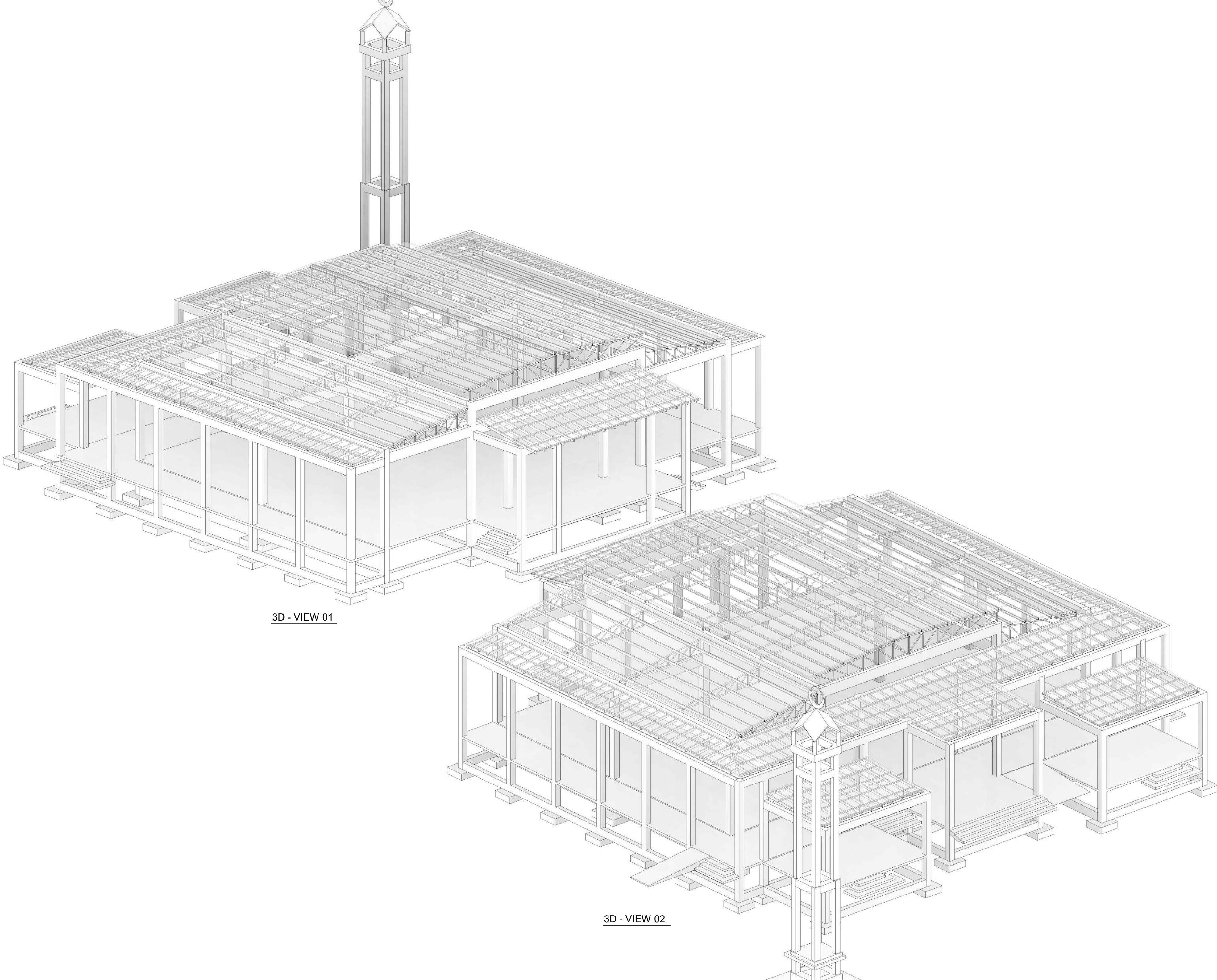
SHEET SIZE A2 SCALE 1 : 75

SHEET NO.

ST-108

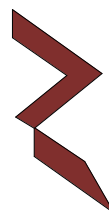
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3D - VIEW 01

3D - VIEW 02

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-				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div></div> <div>RIYAN PRIVATE LIMITED</div> <div>www.riyan.com.mv</div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque				
CLIENT				
MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER				
-				
ATOLL				
---				
ISLAND				
---				
LAGOON (GPS COORDINATES)				
-				
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			18/05/2024	
DRAWING TITLES				
3D VIEWS				
SHEET SIZE		A2	SCALE	
SHEET NO.				
ST-109				
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*PROTOTYPE MOSQUE - 500*

*CLIENT: MINISTRY OF ISLAMIC AFFAIRS*

*SERVICES DRAWINGS*


















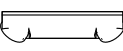
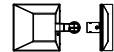











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



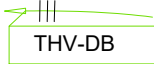
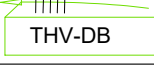

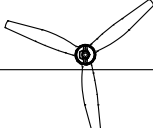

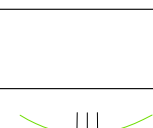
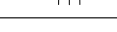




t : +9603315049   f : +9603310776  
e : info@riyan.com.mv  
w : www.riyan.com.mv  
3rd floor, H. Azum, Ameenemagu, Male'






LEGEND (LIGHTING)

SYMBOL	CODE	DESCRIPTION
	LF01	6W, 230V , 3000K, SPOT LIGHT
	LF01.1	6W, 230V , 3000K, SPOT LIGHT W/ 2hr Bat Pack
	LF02	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, FIOOR 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








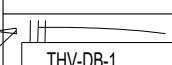
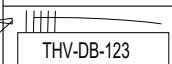


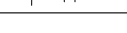



LEGEND (LIGHTING)

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
	THV-DB-1	CIRCUIT HOMERUN, SINGLE PHASE, 3 WIRE
	THV-DB-123	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.

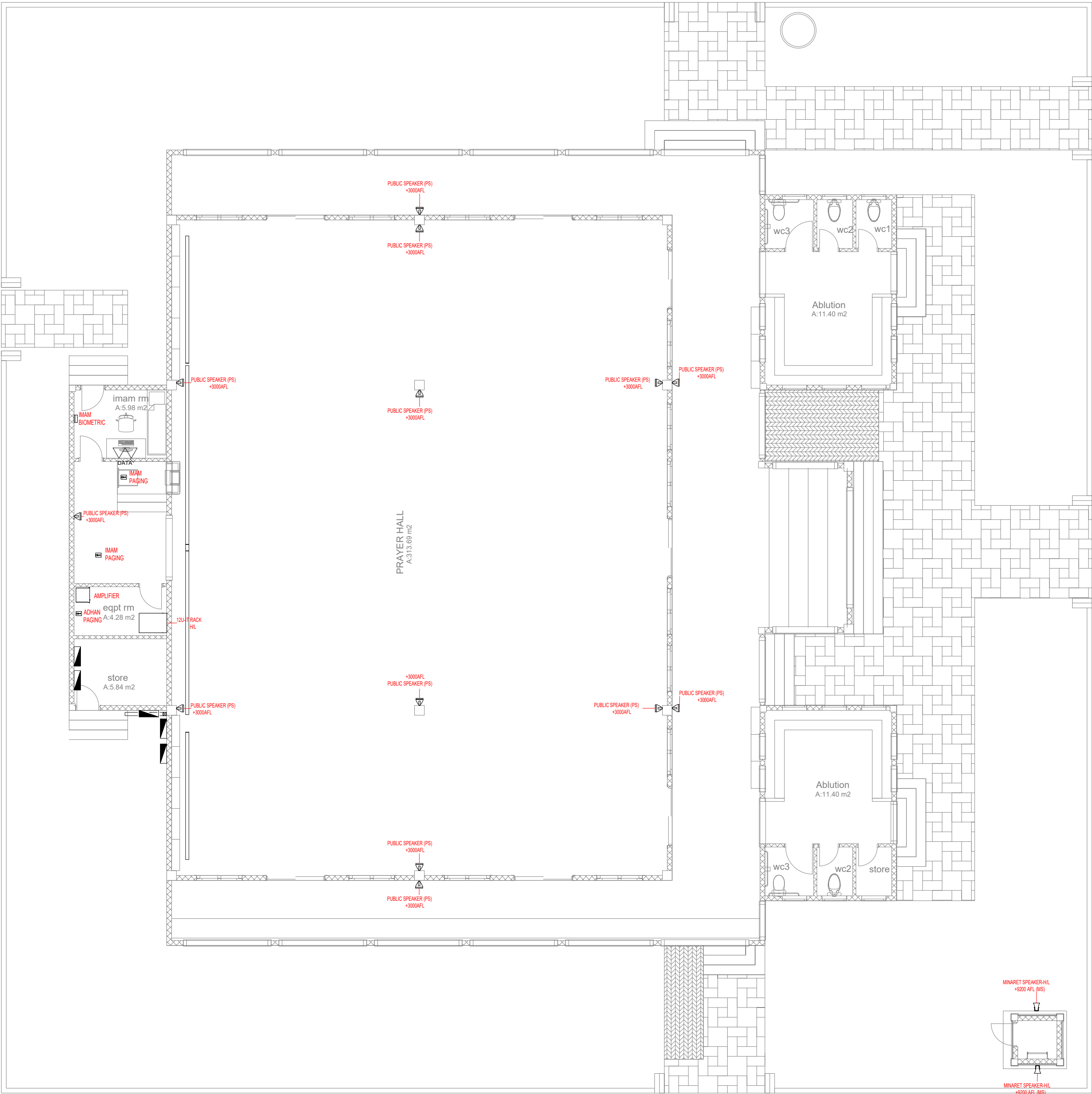
ELECTRICAL NOTES AND LEGENDS

GENERAL NOTES				
<div>- DO NOT SCALE FROM THIS DRAWING.</div> <div>- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.</div> <div>- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.</div> <div>- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.</div>				
REVISIONS				
REV. NO	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY
CONSULTANT				
LEAD CONSULTANT				
RIYAN PVT LTD				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div></div> <div><b>RIYAN PRIVATE LIMITED</b></div> <div><a href="http://www.riyan.com.mv">www.riyan.com.mv</a></div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	ISMAIL RASHEED			
CIVIL ENGINEER	ZAINAL A. ALI RASHEED			
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 500 PAX				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			29 MAY 2024	
DRAWING TITLES				
ELECTRICAL NOTES AND LEGENDS				
SHEET SIZE		A2	SCALE NTS	
SHEET NO.				
ELE - 01				
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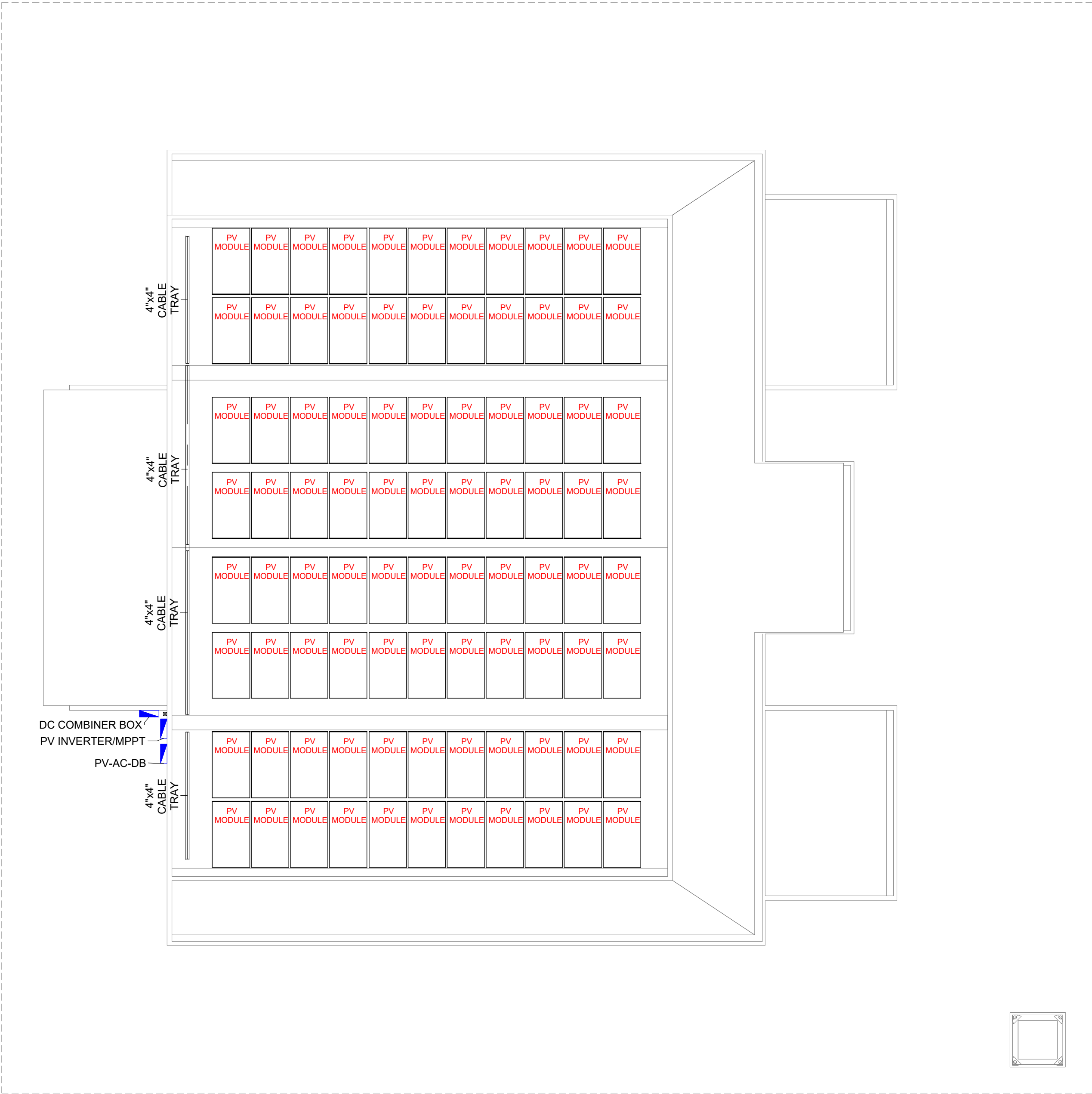


GROUND FLOOR\_PA & ICT LAYOUT  
SCALE 1:100



GENERAL NOTES				
<div>- DO NOT SCALE FROM THIS DRAWING.</div> <div>- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.</div> <div>- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.</div> <div>- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.</div>				
REVISIONS				
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LEAD CONSULTANT				
RIYAN PVT LTD				
DESIGN CONSULTANT				
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CONSULTANT PROJECT NO. R24002MIA				
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INT. DESIGNER				
INFRA. DESIGNER				
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PROTOTYPE MOSQUES				
CLIENT	MINISTRY OF ISLAMIC AFFAIRS			
DEVELOPER				
ATOLL				
ISLAND				
LAGOON (GPS COORDINATES)				
ISSUED FOR				
DD - DETAIL DESIGN				
BUILDING NAME				
MOSQUE FOR 500 PAX				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		29 MAY 2024		
DRAWING TITLES				
GROUND FLOOR				
PUBLIC ANNOUNCEMENT AND				
ICT LAYOUT				
SHEET SIZE		A2	SCALE 1:100	
SHEET NO.				
ELE - 04				
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ROOF\_SOLAR PV 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.

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

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

REVISIONS

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

CONSULTANT

LEAD CONSULTANT

RIYAN PVT LTD

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT

RIYAN PRIVATE LIMITED

www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA	
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CIVIL ENGINEER	ZAINAL A. ALI RASHEED
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 500 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES

ROOF

SOLAR PV LAYOUT

SHEET SIZE	A2	SCALE	1:100
SHEET NO.			
ELE - 05			

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LOAD CALCULATION																								
FEEDER NAME/No:		DB-1- (MOSQUE 500 Pax)				MAIN BREAKER :				125AT, 4P, CURVE C MCCB				LOCATION:				EE ROOM						
SYSTEM VOLTAGE:		400V/230V, 3Ø, 4W+G				MAIN BUS :				150A,3P, Cu, TINNED BUSBAR				ENCLOSURE :				POLYCARBONATE, IP55						
MAIN. KAIC:		10kA				EARTH FAULT RATING:				125/5, ELR/OCR				MOUNTING :				Wall Mounted						
FED FROM (SOURCE):		DB-2				MAIN FEEDER SIZE:				1x4C-35mm²Cu/ XLPE/SWA/PVC + 25mm² PE				CABLE LAYOUT :				RUN CONCEALED						
TYPE:		3 PHASE																						
LOAD CALCULATION																								
CKT NO	Description	QTY	W/Pts	Connected Load	LF	DF	P.F	Total Apparent Power(WA) (DL)	Total Active Power(W) (DL)	VOLTAGE	AMPERE LOAD (A)				MCB/MCCB (PROTECTION)				Curve	ELCB/R CCB	WIRING CONDUCTOR	CONDUIT/RACEWAY		
											R(L1)	Y(L2)	B(L3)	3PHASE	AT	AF	P	kA				RUN CONCEALED		
DB-1-1	LF20-LIGHTING FIXTURE ; CEILING FAN	10	50	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-2	LF14-LIGHTING FIXTURE	8	50	400.00	1.00	0.80	0.90	355.56	320.00	230		1.55			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-3	LF14-LIGHTING FIXTURE	12	50	600.00	1.00	0.80	0.90	533.33	480.00	230			2.32		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-4	LF14-LIGHTING FIXTURE	9	50	450.00	1.00	0.80	0.90	400.00	360.00	230	1.74				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-5	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230		2.32			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-6	LF14-LIGHTING FIXTURE	12	50	600.00	1.00	0.80	0.90	533.33	480.00	230			2.32		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-7	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230	2.32				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-8	LF14-LIGHTING FIXTURE	9	50	450.00	1.00	0.80	0.90	400.00	360.00	230		1.74			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-9	LF14-LIGHTING FIXTURE	10	50	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-10	LF27-LIGHTING FIXTURE	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-11	LF27-LIGHTING FIXTURE	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-12	LF10-LIGHTING FIXTURE	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		10	100	1	6	C	32A,4P	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-13	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230	2.32				10	100	1	6	C	30mA	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-14	LF05-LIGHTING FIXTURE	13	50	650.00	1.00	0.80	0.90	577.78	520.00	230		2.51			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-15	LF20-LIGHTING FIXTURE	6	50	300.00	1.00	0.80	0.90	266.67	240.00	230			1.16		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-16	LF20-LIGHTING FIXTURE	6	50	300.00	1.00	0.80	0.90	266.67	240.00	230	1.16				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-17	LF05-LIGHTING FIXTURE	10	50	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-18	LF05-LIGHTING FIXTURE	14	50	700.00	1.00	0.80	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-1-19	LF05-LIGHTING FIXTURE (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-1-20	LF05-LIGHTING FIXTURE (T/S)	11	50	550.00	1.00	0.80	0.90	488.89	440.00	230		2.13			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-21	LF05-LIGHTING FIXTURE (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-1-22	CEILING FAN	6	50	300.00	1.00	0.80	0.90	266.67	240.00	230	1.16				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-23	LF05-LIGHTING FIXTURE	13	50	650.00	1.00	0.80	0.90	577.78	520.00	230	2.51				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-1	SPARE	0	100	-	1.00	0.80	0.90	-	-	230			0.00		10	100	1	6	C					
DB-1-1	SPARE	0	100	-	1.00	0.80	0.90	-	-	230		-			10	100	1	6	C					
	TOTAL CONNECTED LIGHTING LOAD										13.91	16.62	13.72		32	100	3	10	C		4x1C-6mm² PVC/PVC + 6mm² PVC PE	CONDUIT/RACEWAY		
DB-1-24	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230	1.04				16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-25	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230		1.04			16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-26	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230			1.04		16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-27	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230	1.04				16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-28	13A SINGLE POWER SOCKET SWITCH TYPE	7	90	630.00	1.00	0.80	0.90	560.00	504.00	230		2.43			16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-29	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230			1.04		16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-30	13A SINGLE POWER SOCKET SWITCH TYPE	4	500	2,000.00	1.00	0.80	0.90	1,777.78	1,600.00	230	7.73				16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-31	13A SINGLE POWER SOCKET SWITCH TYPE	4	500	2,000.00	1.00	0.80	0.90	1,777.78	1,600.00	230		7.73			16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-32	13A SINGLE POWER SOCKET SWITCH TYPE	3	500	1,500.00	1.00	0.80	0.90	1,333.33	1,200.00	230			5.80		16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-33	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	32A,4P	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-34	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	100mA	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-35	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-36	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-37	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-38	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-39	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-40	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-41	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-42	13A SINGLE POWER SOCKET SWITCH TYPE	2	500	1,000.00	1.00	0.80	0.90	888.89	800.00	230	3.86				20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY		
DB-1-43,44,45	3P ISOLATOR FOR VRF	1	12,000.00	12,000.00	1.00	0.80	0.90	10,666.67	9,600.00	230	15.40	15.40	15.40		32	100	3	10	C		1Rx4C-10mm² Cu/XLPE/SWA/PVC +	CONDUIT/RACEWAY		
DB-1-46,47,48	3P ISOLATOR FOR VRF	1	12,000.00	12,000.00	1.00	0.80	0.90	10,666.67	9,600.00	230	15.40	15.40	15.40		32	100	3	10	C		1Rx4C-10mm² Cu/XLPE/SWA/PVC +	CONDUIT/RACEWAY		
DB-1-49,50,49	DB-2- (MOSQUE 500 Pax)	1	4,266.76	4,266.76	1.00	1.00	1.00	4,266.76	4,266.76	230	6.16	6.16	6.16		32	100	3	10	C		1Rx4C-			

ELECTRICAL LOAD CALCULATION\_DB-2

LOAD CALCULATION																											
FEEDER NAME/No: DB-2- (MOSQUE 500 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-2				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	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-2-2	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	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(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-2-4	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(T/S)	5	50	250.00	1.00	0.80	0.90	222.22	200.00	230	0.97				10	100	1	6	C			2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY				
DB-2-5	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(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-2-6	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-2-7	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-2-8	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(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										2.51	2.90	2.32		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			1Rx4C-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	4,266.76	3,840.08		6.16	5.85	5.97	6.16									-				
Load Calculation								List of Equipment																			
Description			Unit		Description			Unit	Qty																		
Total 3 Phase Load (DL)			A	6.16	32AT, 3P, CURVE C MCCB			No	1																		
Total Active Power (DL)			KW	3.84	MCB 32AT, 10KA-3P			No	1																		
Safety Factor			%	25%	MCB 20AT, 6KA-1P			No																			
Total 3 Phase Load_with Safety Factor			A	7.70	MCB 16AT, 6KA-1P			No																			
32AT, 3P, CURVE C MCCB			%	24%	MCB 10AT, 6KA-1P			No	10																		
Number of Feeders			No	9																							
Main Breaker Rating			A	32																							
Busbar Dimensions(mm)			A	11x6																							
Busbar Rating			A	63																							

GENERAL NOTES

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INFRA. DESIGNER	
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PROTOTYPE MOSQUES

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

MOSQUE FOR 500 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES

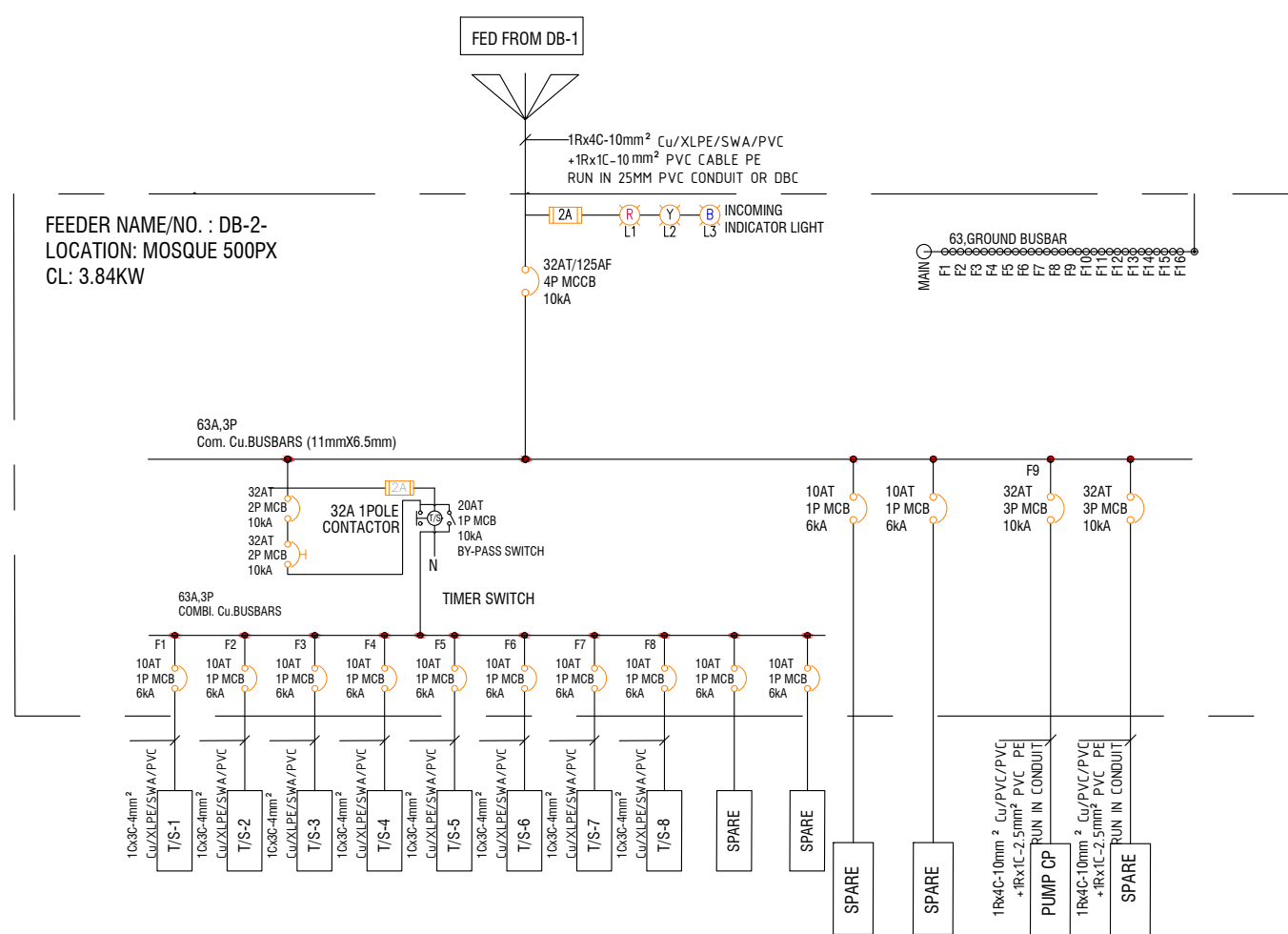
ELECTRICAL LOAD CALCULATION - DB 02

SHEET SIZE	A2	SCALE	NTS
SHEET NO.	ELE - 07		

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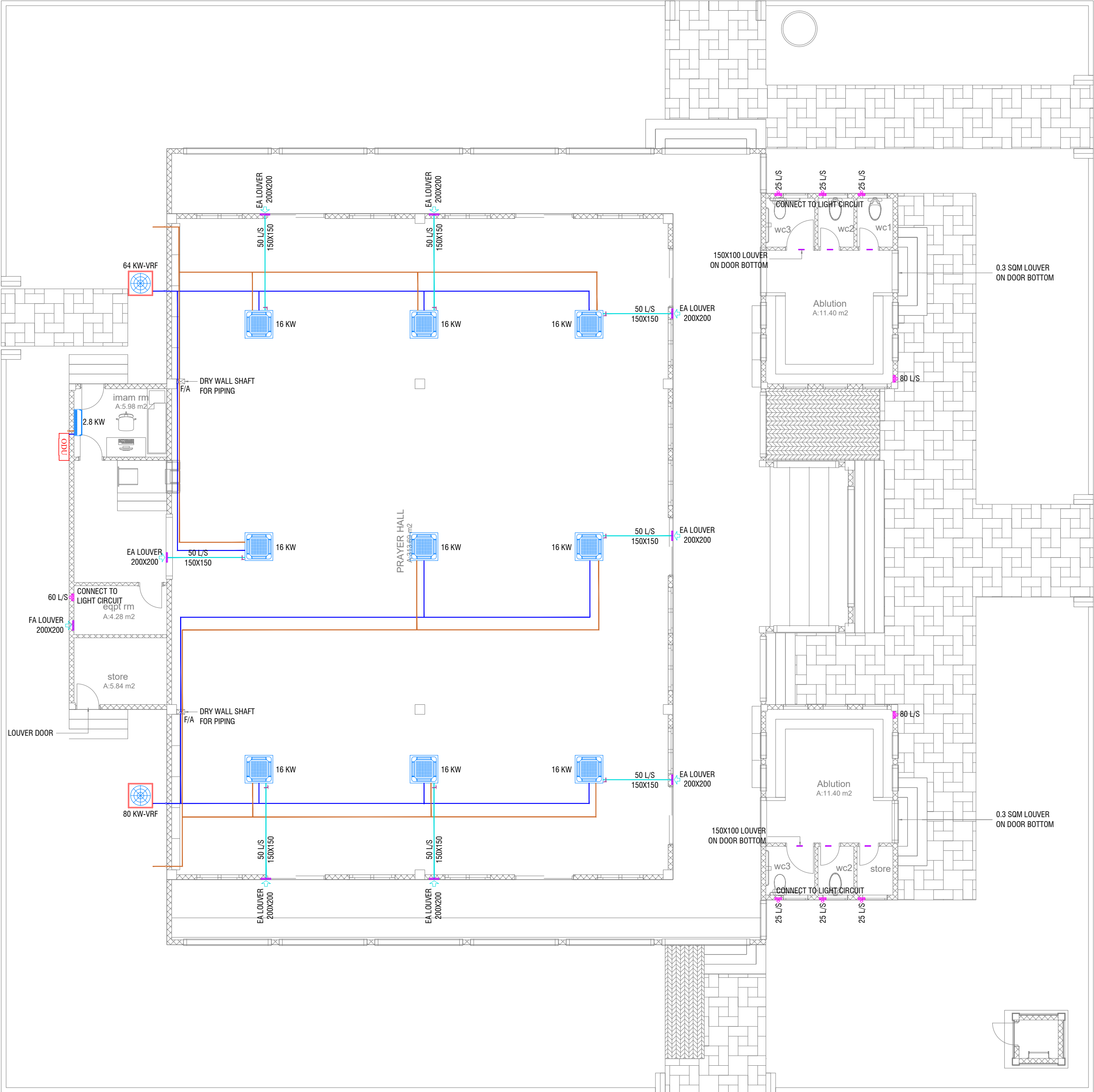


SINGLE LINE DIAGRAM  
DB-2 MOSQUE 500px

# ELECTRICAL SINGLE LINE DIAGRAM\_DB-2

[illegible]





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
	WALL MOUNTED EXHAUST FAN
	LOUVER WITH BIRD SCREEN
	REFRIGERANT PIPES WITH INSULATION
	AC DRAIN PIPES WITH INSULATION
	FRESH AIR DUCT
SA	SUPPLY AIR
RA	RETURN AIR
FA	FRESH AIR
EA	EXHAUST AIR
T/B	TO BELOW
T/A	TO ABOVE
F/A	FROM ABOVE
F/B	FROM BELOW

ACMV-DESIGN BASIS REPORT					
SPACES DESCRIPTION	COOLING LOAD [KW]	INDOOR UNIT	OUTDOOR UNIT	FRESH AIR	EXHAUST AIR [L/S]
Prayer Hall	144.0	Cassette	VRF	10% airflow of indoor unit	
Imam Room	2.8	Wall mounted	Inverter Single split		
Equipment Room					60
Store Room					
Ablution (Male)					80
WC 01					25
WC 02					25
WC 03					25
Ablution (Female)					80
WC 01					25
WC 02					25
Store					25

- GENERAL NOTES
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APPROVED BY	

PROJECT NAME  
**PROTOTYPE MOSQUES**

CLIENT **MINISTRY OF ISLAMIC AFFAIRS**

DEVELOPER  
ATOLL  
ISLAND  
LAGOON (GPS COORDINATES)  
ISSUED FOR  
**DD - DETAIL DESIGN**

BUILDING NAME  
**MOSQUE FOR 500 PAX**

BUILDING/STRUCTURE NO.	ISSUE DATE 29 MAY 2024
------------------------	---------------------------

DRAWING TITLES  
**GROUND FLOOR  
AIR-CONDITIONING AND  
MECHANICAL VENTILATION  
LAYOUT**

SHEET SIZE **A2** 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.

PLUMBING NOTES AND LEGENDS








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

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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 500 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES

PLUMBING NOTES AND LEGENDS

SHEET SIZE	A2	SCALE	NTS
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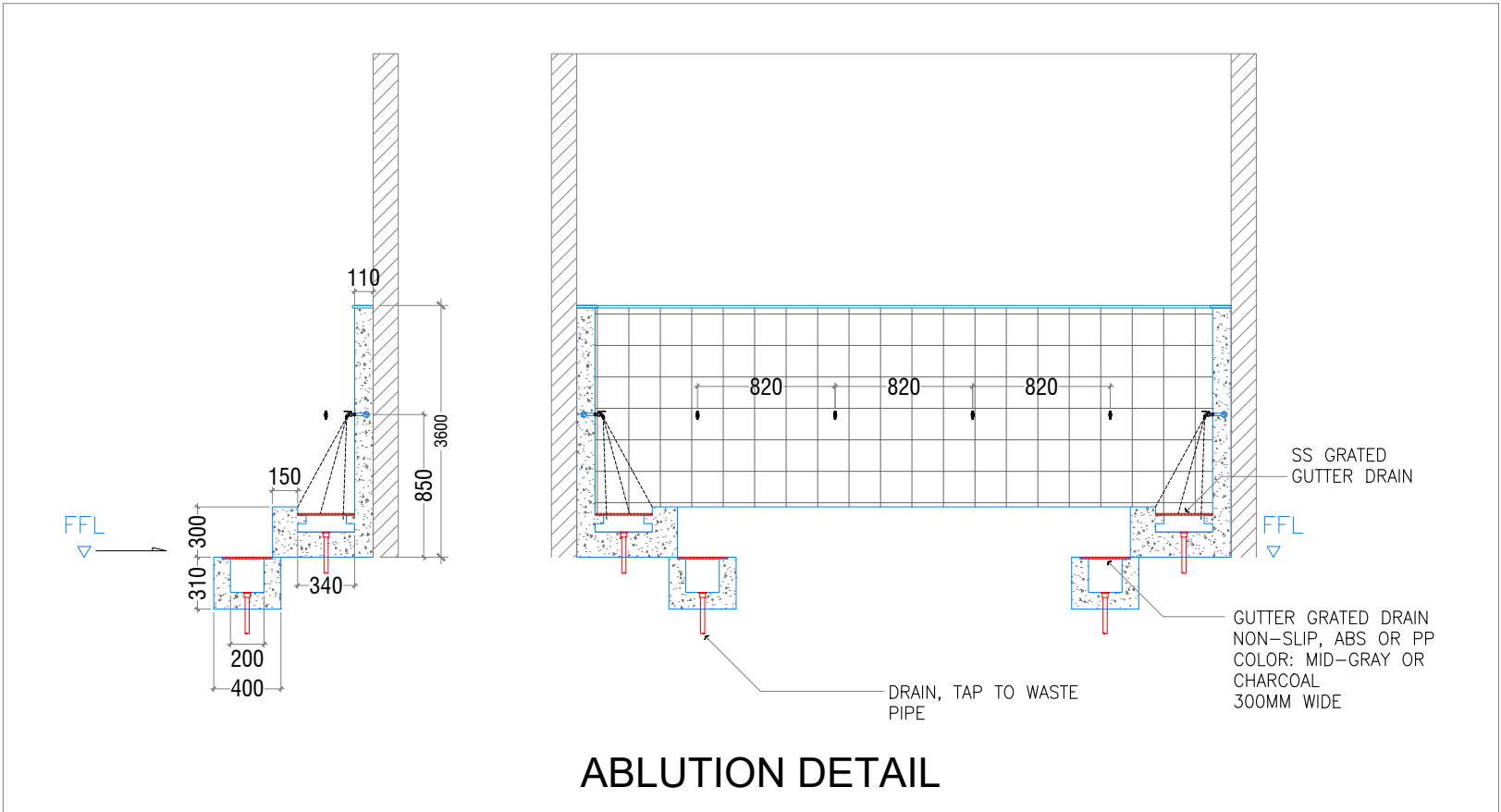
SHEET NO.

PL - 01

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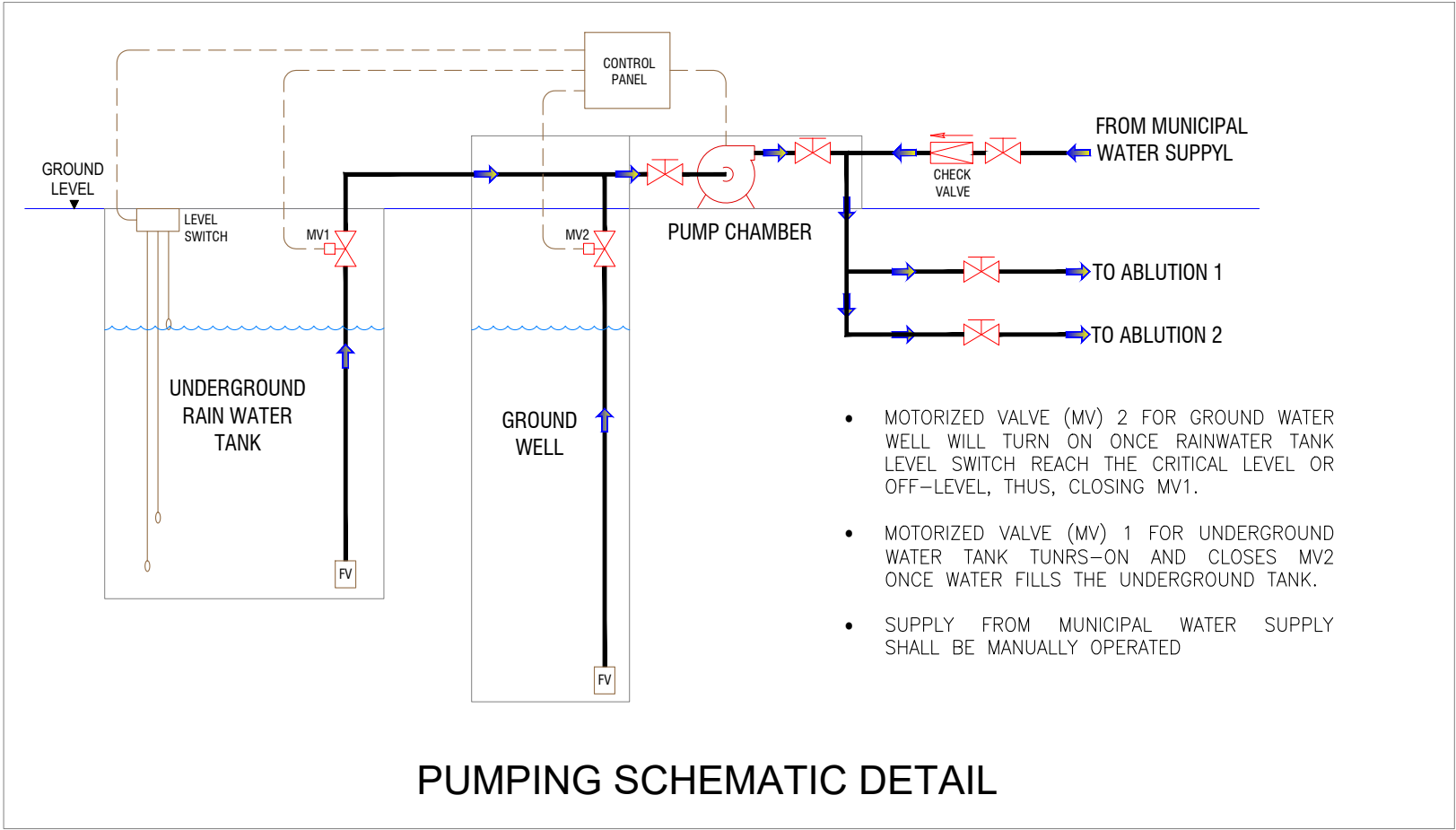


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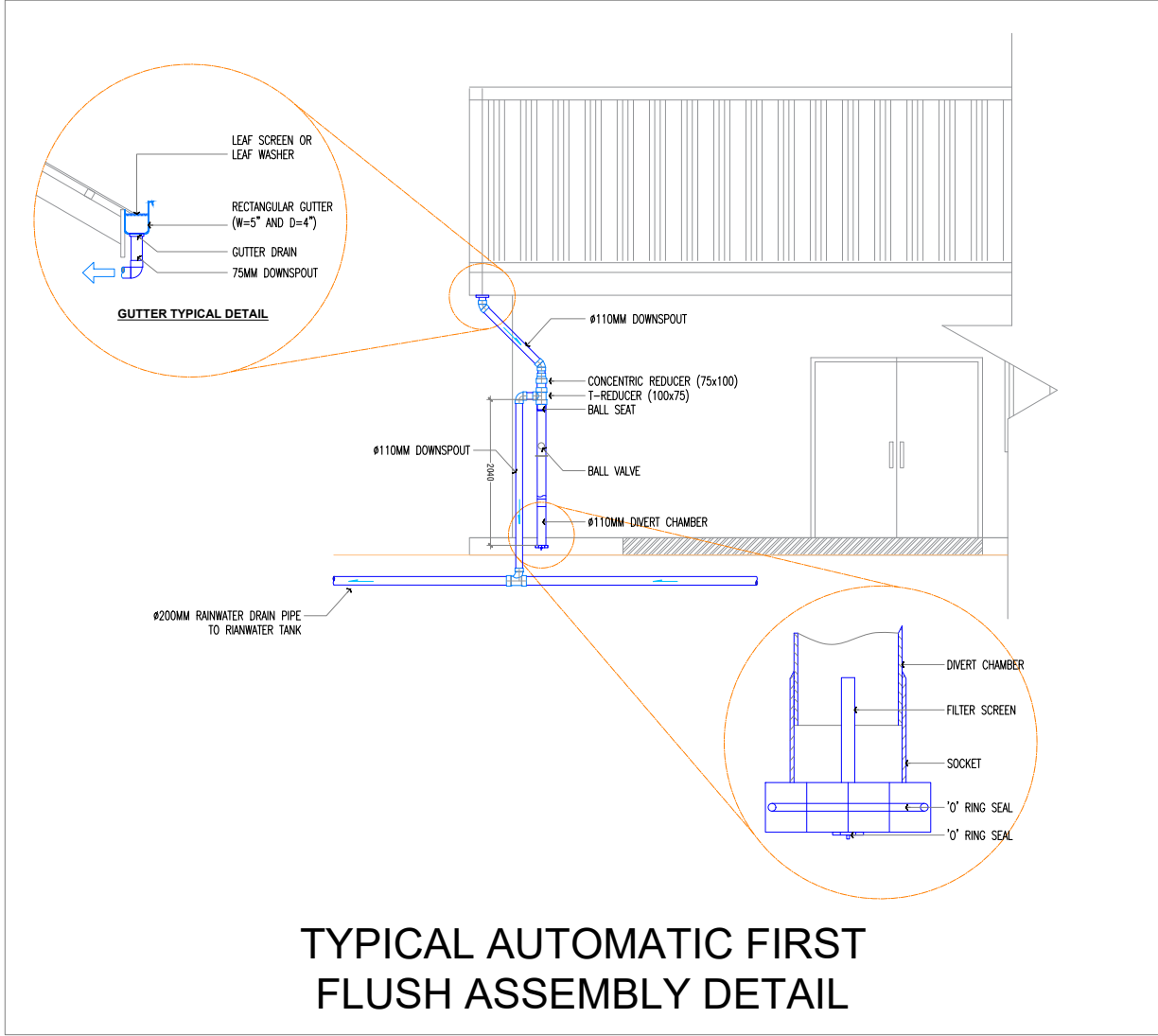
ABLUTION DETAIL

PUMPING SCHEMATIC DETAIL:



PUMPING SCHEMATIC DETAIL

TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL:

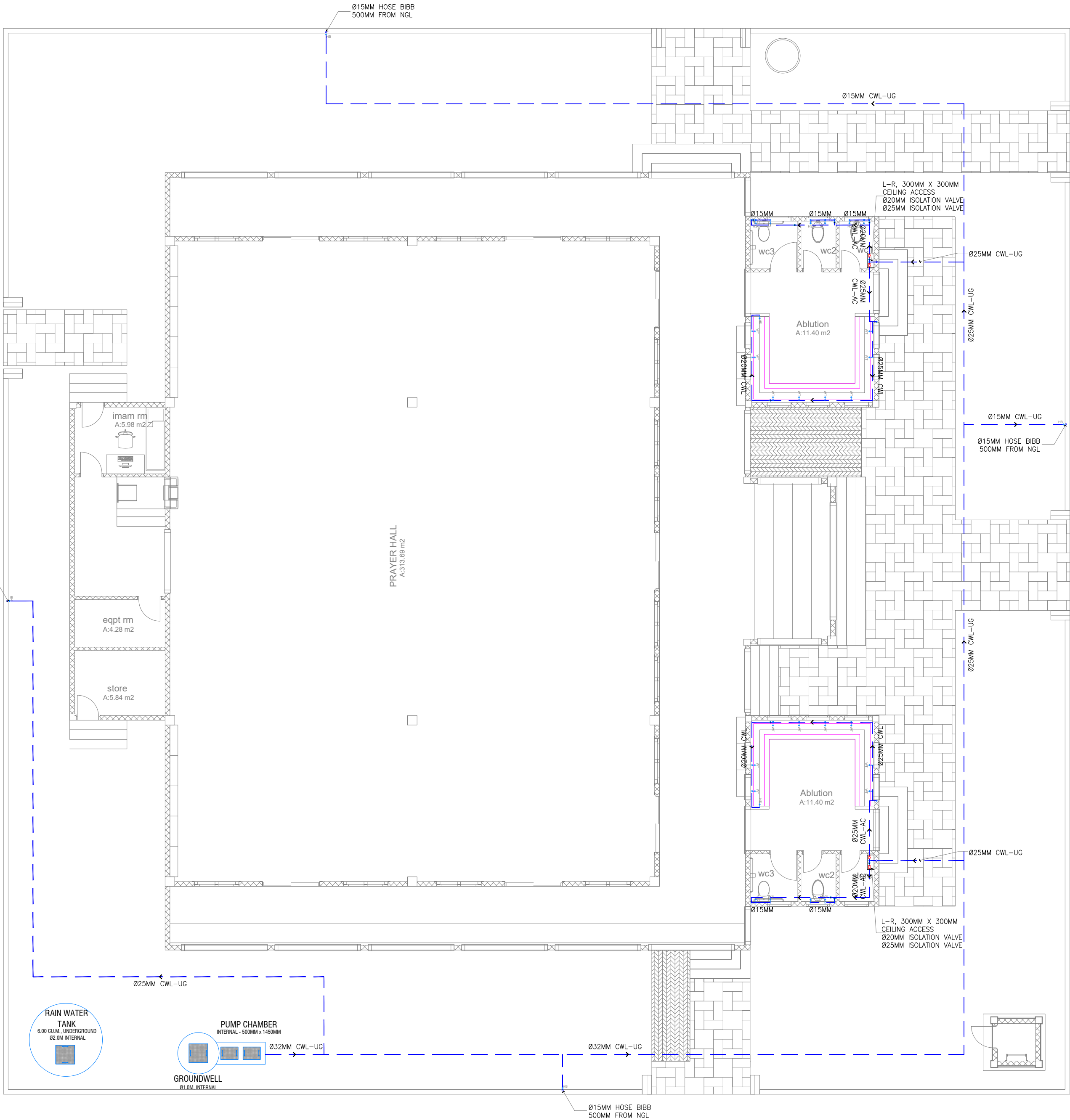


TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL

FLOW RATE AND PUMP SIZING:

I. No. Of Fixtures			
Fixtures	No. of Fixtures	Fixture Flowrate, GPM	Flow Pressure, psi
1. Water Closet, 4.8 LPF Gravity Tank	5	25	20
2. Faucet	16	2.2	20
3. Hose Bibs	4	5	8
4. Bidet	7	2.5	20
II. Maximum/ Probable Demand and Pump Size			
Fixtures		Gallons per Minute	
1. Water Closet, 4.8 LPF Gravity Tank		125	
2. Faucet		35.2	
3. Hose Bibs		20	
4. Bidet		17.5	
Total		197.7	
Maximum Demand, gpm		200	
Flowrate (required) m <sup>3</sup> /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	

GENERAL NOTES				
<div>- DO NOT SCALE FROM THIS DRAWING.</div> <div>- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.</div> <div>- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.</div> <div>- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.</div>				
REVISIONS				
REV. NO	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY



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

GENERAL NOTES

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CONSULTANT

LEAD CONSULTANT

RIYAN PVT LTD

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RIYAN PRIVATE LIMITED

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CONSULTANT PROJECT NO.

R24002MIA

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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	

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PROTOTYPE MOSQUES

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DEVELOPER

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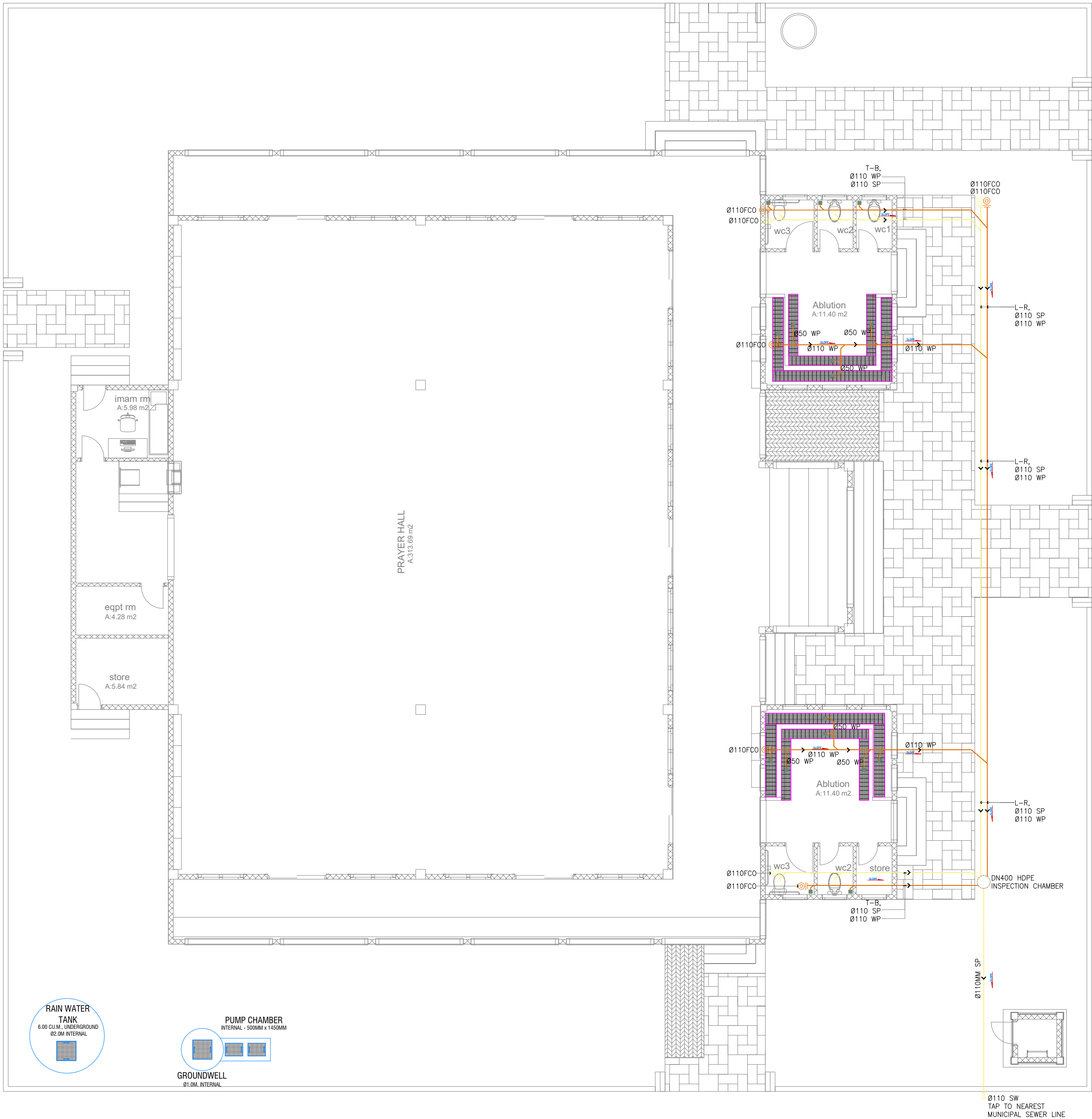
DRAWING TITLES

GROUND FLOOR

WATER SUPPLY LAYOUT

SHEET SIZE	A2	SCALE	1:100
SHEET NO.	PL - 03		

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GROUND FLOOR\_WASTE PIPE DRAINAGE LAYOUT  
SCALE 1:100



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.

GENERAL NOTES

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INFRA DESIGNER	
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APPROVED BY	

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DRAWING TITLES

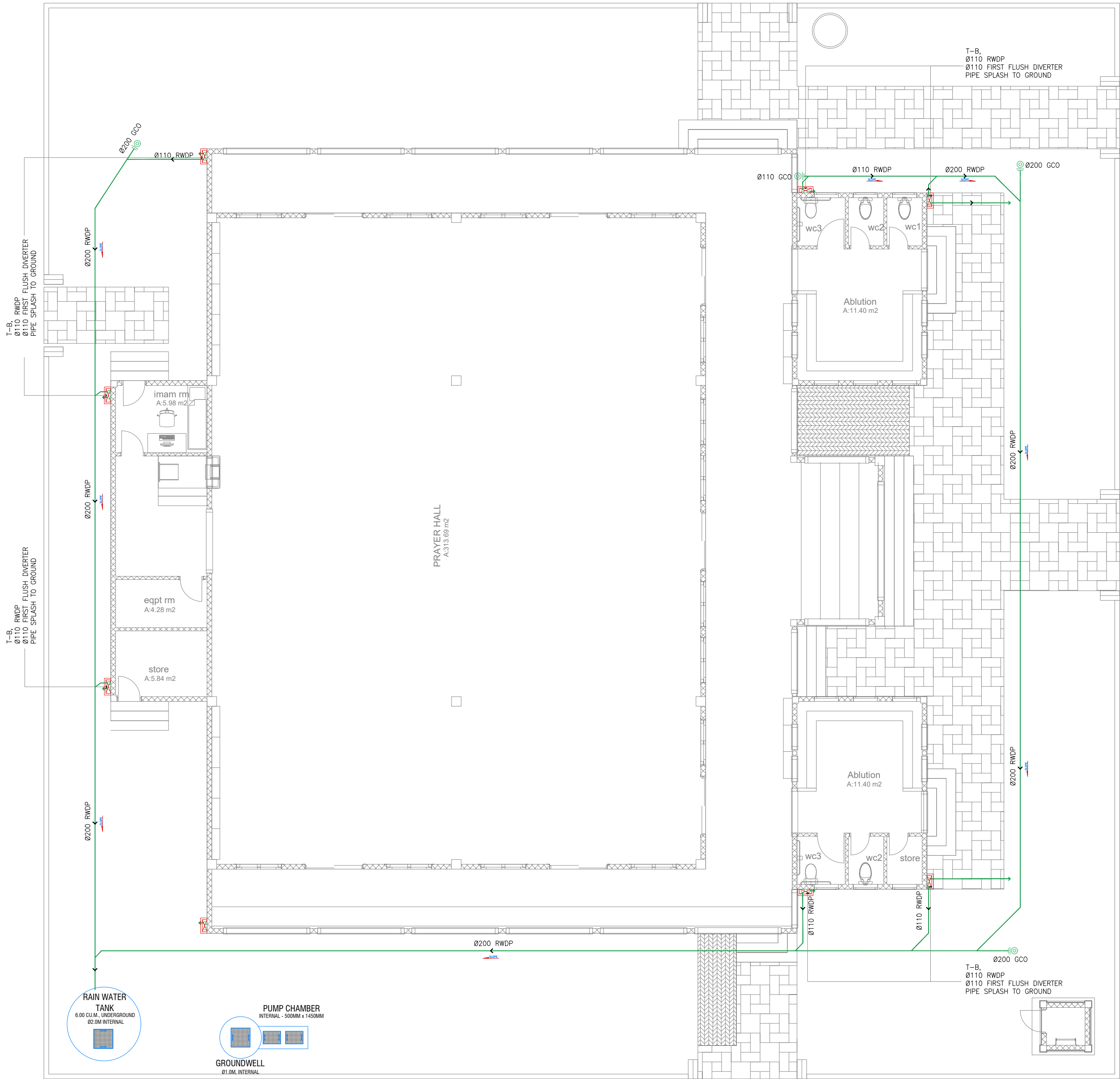
GROUND FLOOR

WASTE PIPE DRAINAGE LAYOUT

SHEET SIZE	A2	SCALE	1:100
SHEET NO.	PL - 04		

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GROUND FLOOR\_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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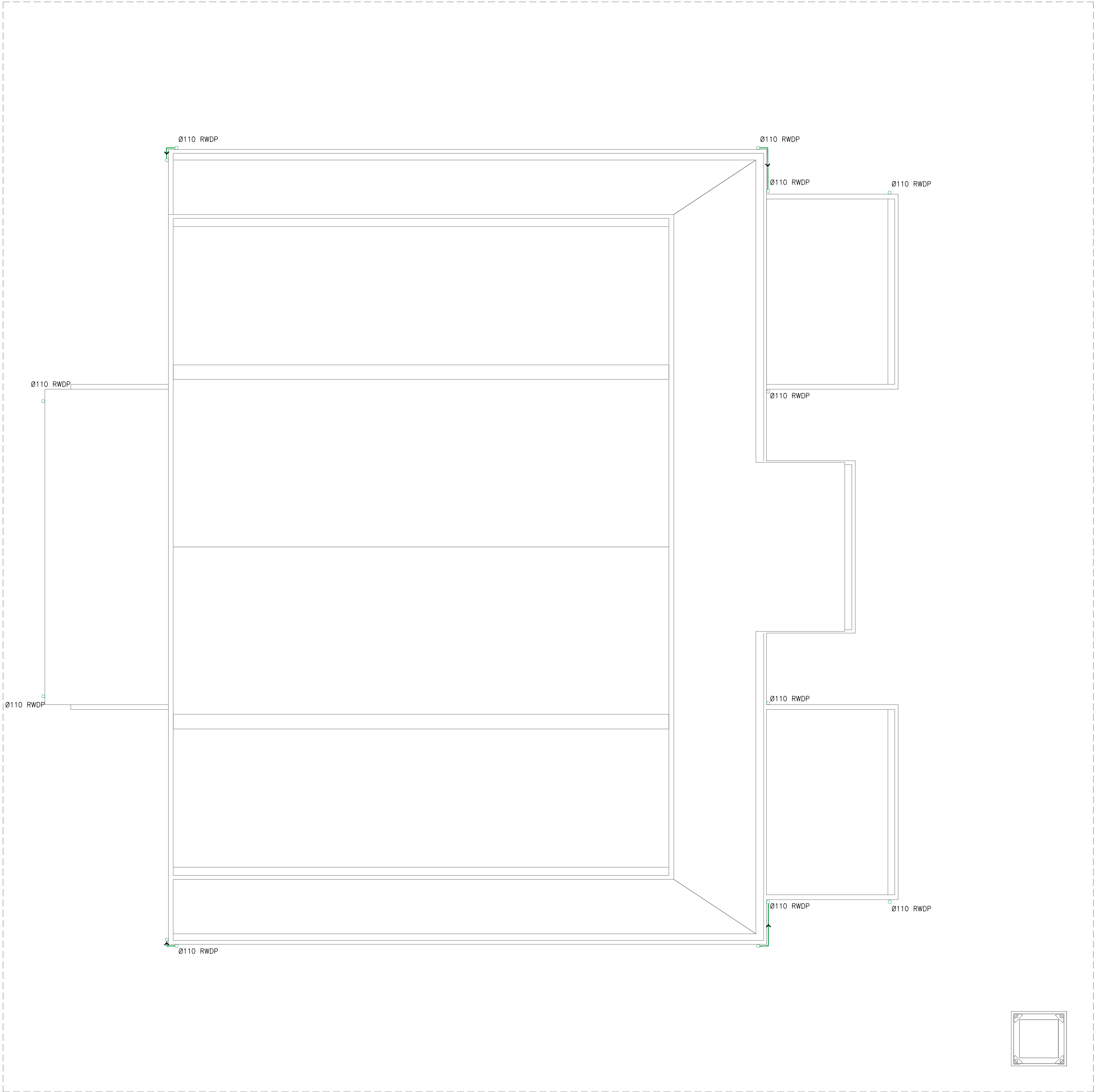
DRAWING TITLES

GROUND FLOOR

RAINWATER DRAINAGE AND HARVESTING LAYOUT

SHEET SIZE	A2	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
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 ½”. 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:
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INFRA. DESIGNER	
DRAWN BY	MARK KENN BRITO
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APPROVED BY	

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DRAWING TITLES










ROOF

RAINWATER DRAINAGE AND HARVESTING LAYOUT

SHEET SIZE	A2	SCALE	1:100
SHEET NO.	PL - 06		

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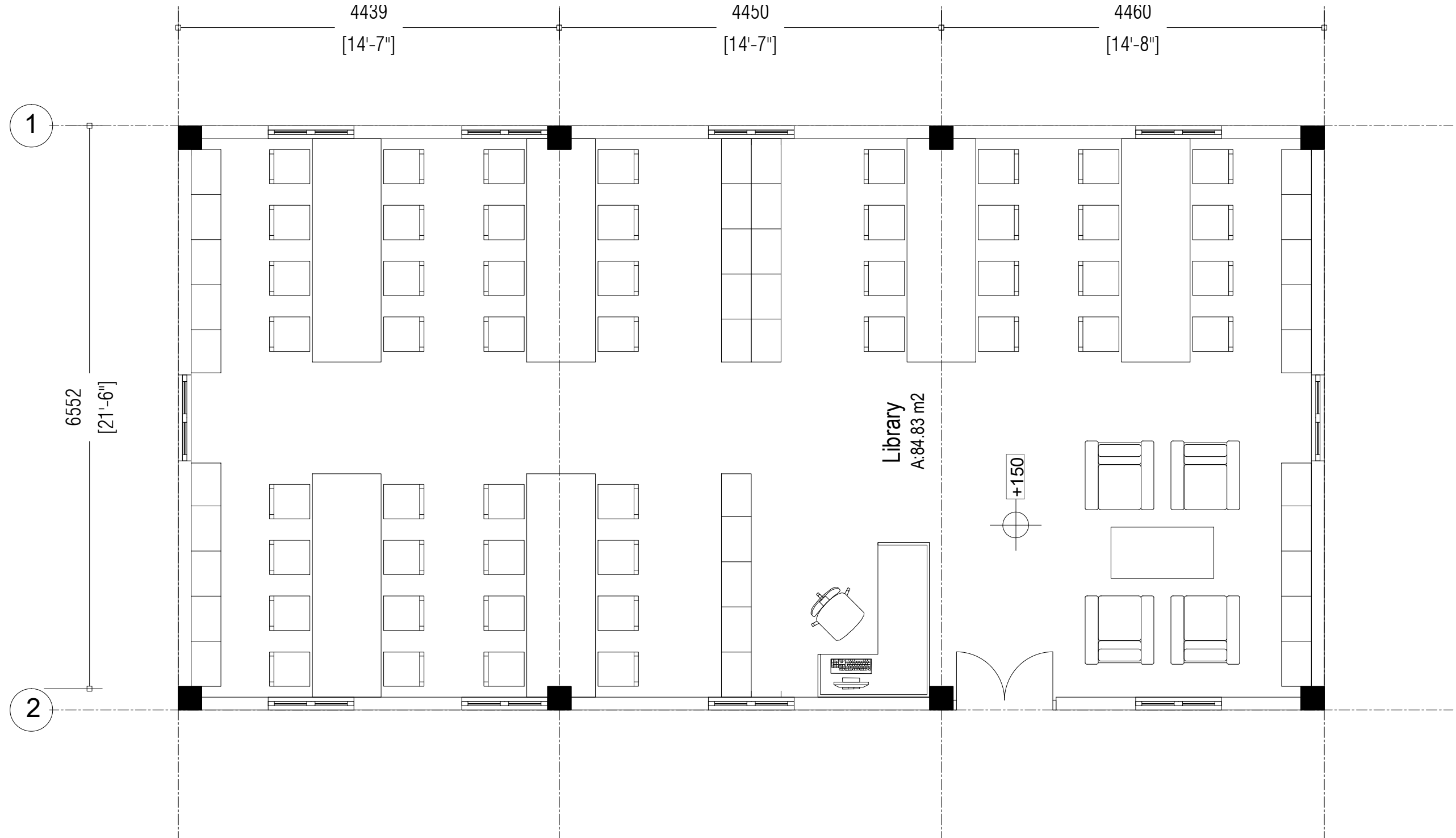


- | FDP LEGENDS   |  |
|---|--|
|  | SMOKE DETECTOR   |
|  | HEAT DETECTOR  |
|  | FIRE BLANKET   |
|  | MANUAL CALL POINT  |
|  | EXIT SIGN (MINIMUM 90 MINUTES BATTERY BACKUP AND 80 LUMENS)                |
|  | EMERGENCY LIGHT (MINIMUM 90 MINUTES BATTERY BACKUP AND 300 LUMENS)         |
|  | FIRE ALARM SOUNDER W/ STROBE LIGHT 95dB                                    |
|  | CO <sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN WEATHER PROOF ENCLOSURE (TYP.) |
|  | H <sub>2</sub> O EXTINGUISHER (LOAD: 9L) IN WEATHER PROOF ENCLOSURE (TYP.) |
|  | DCP EXTINGUISHER (LOAD: 6KG) IN WEATHER PROOF ENCLOSURE (TYP.)             |
|  | CONVENTIONAL FIRE ALARM CONTROL PANEL (WITH 2-HOUR BATTERY BACK UP)        |

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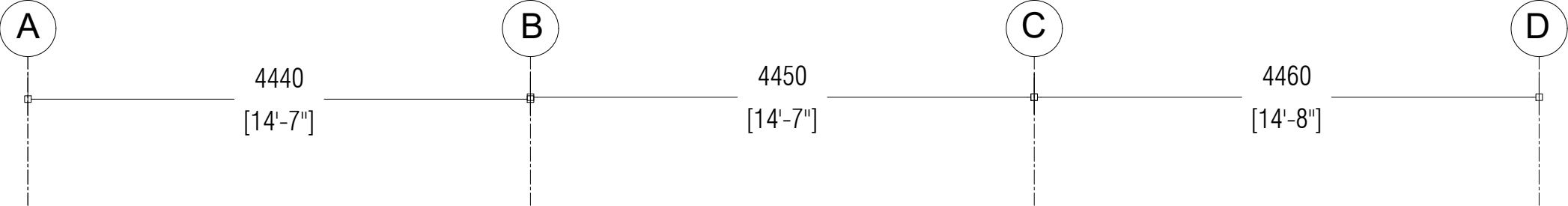
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FLOOR PLAN  
1:100





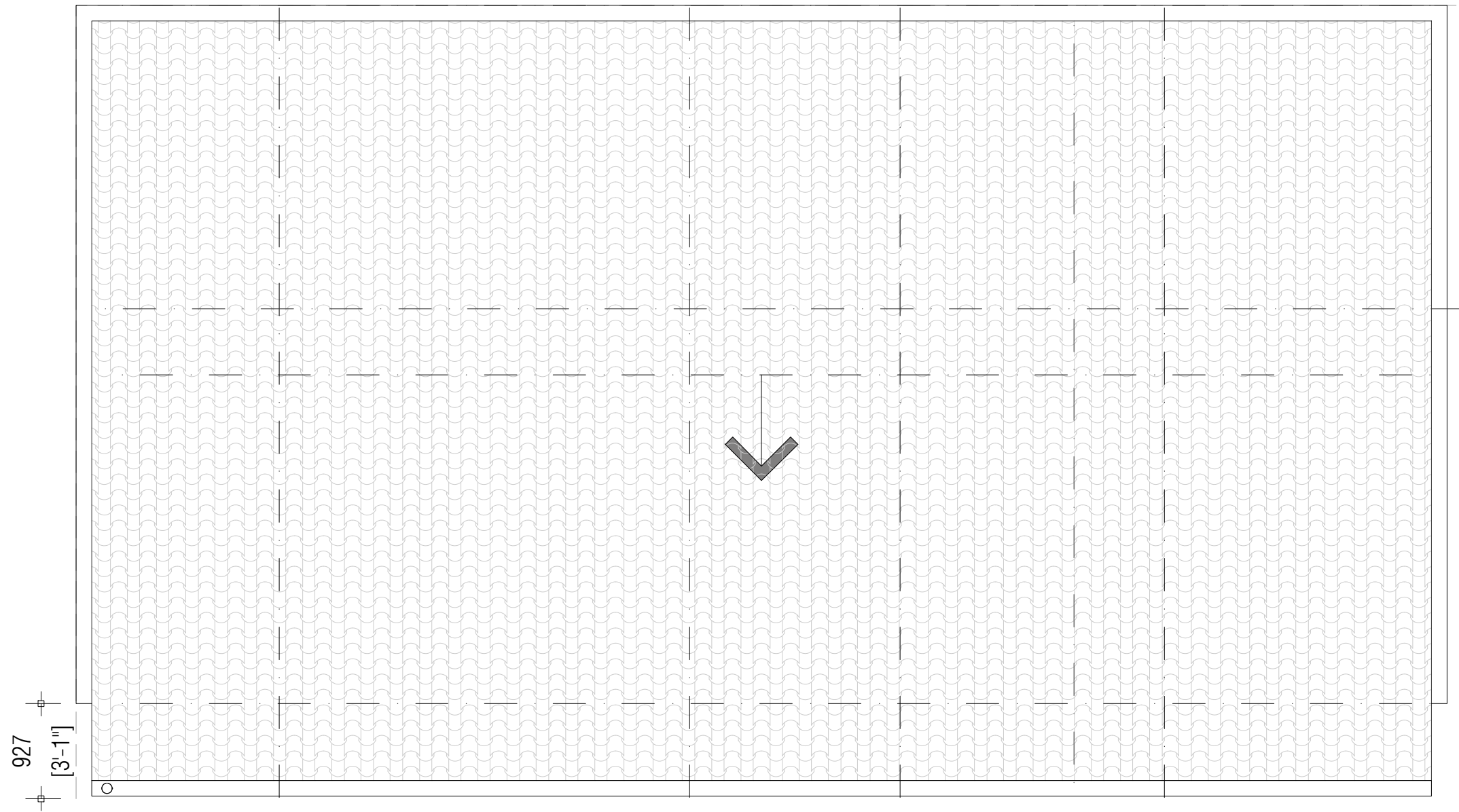


Roof Level 1  
+4,500

Ground Floor  
±0

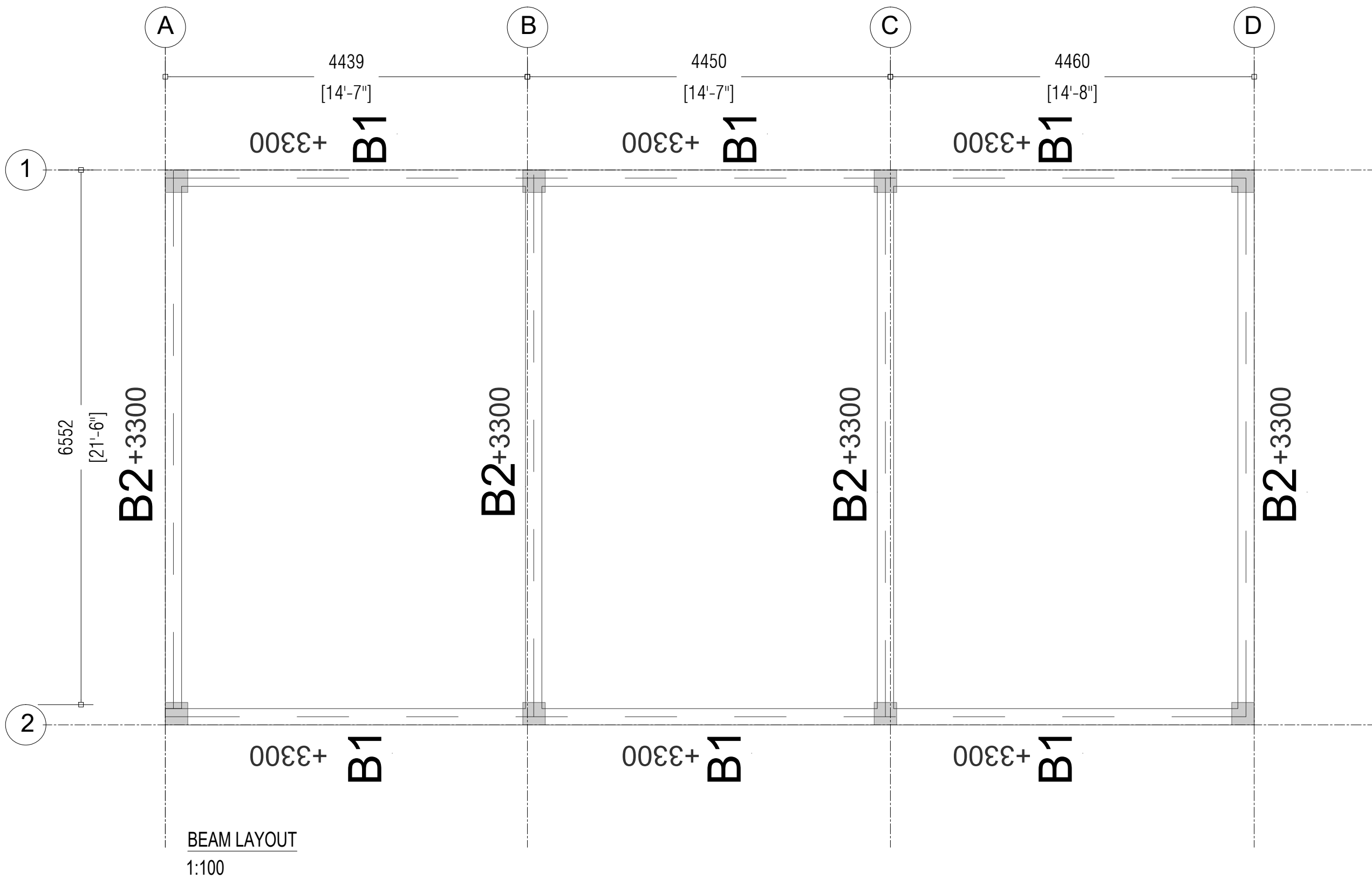
Foundation  
-1,200

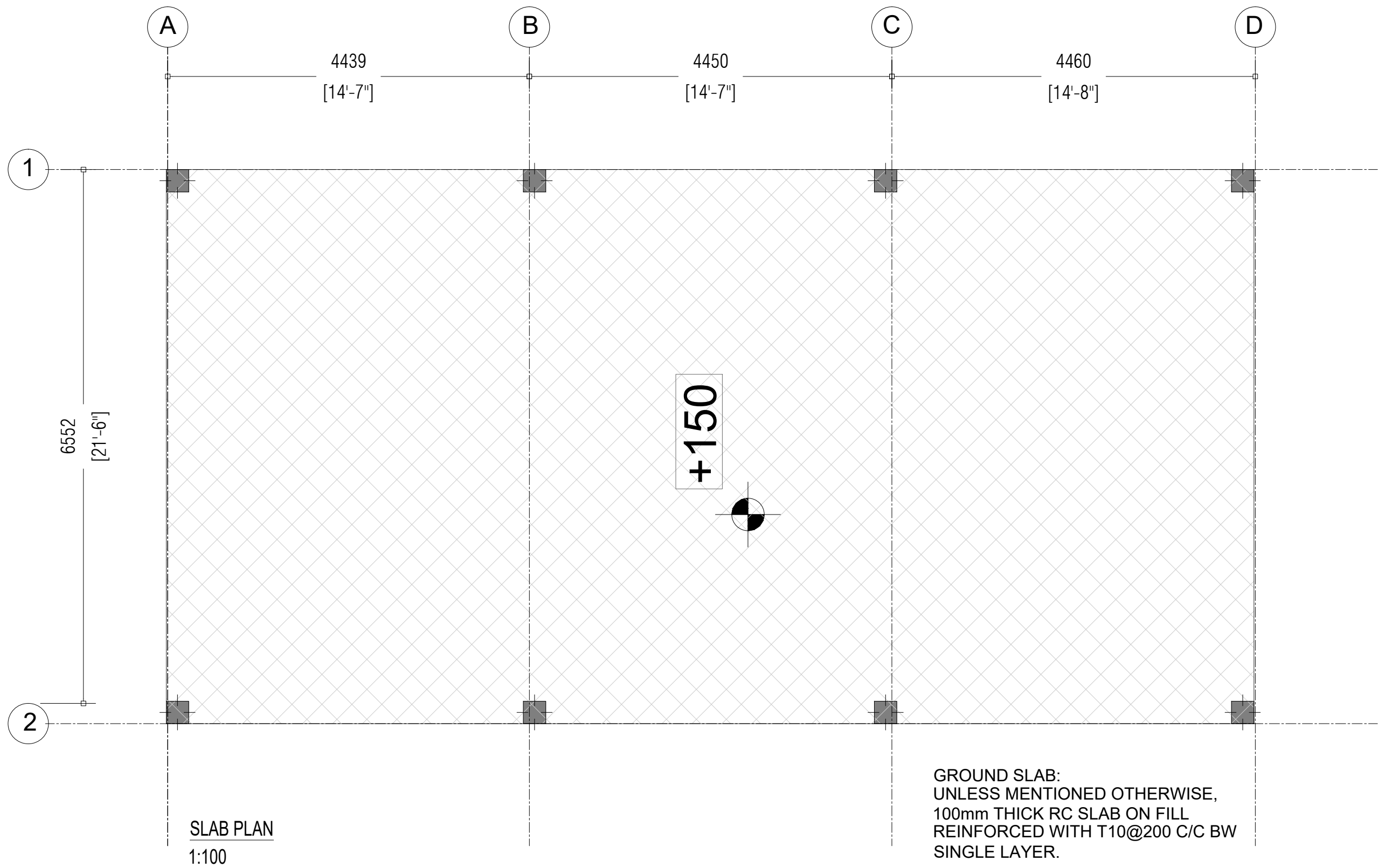
ELEVATION  
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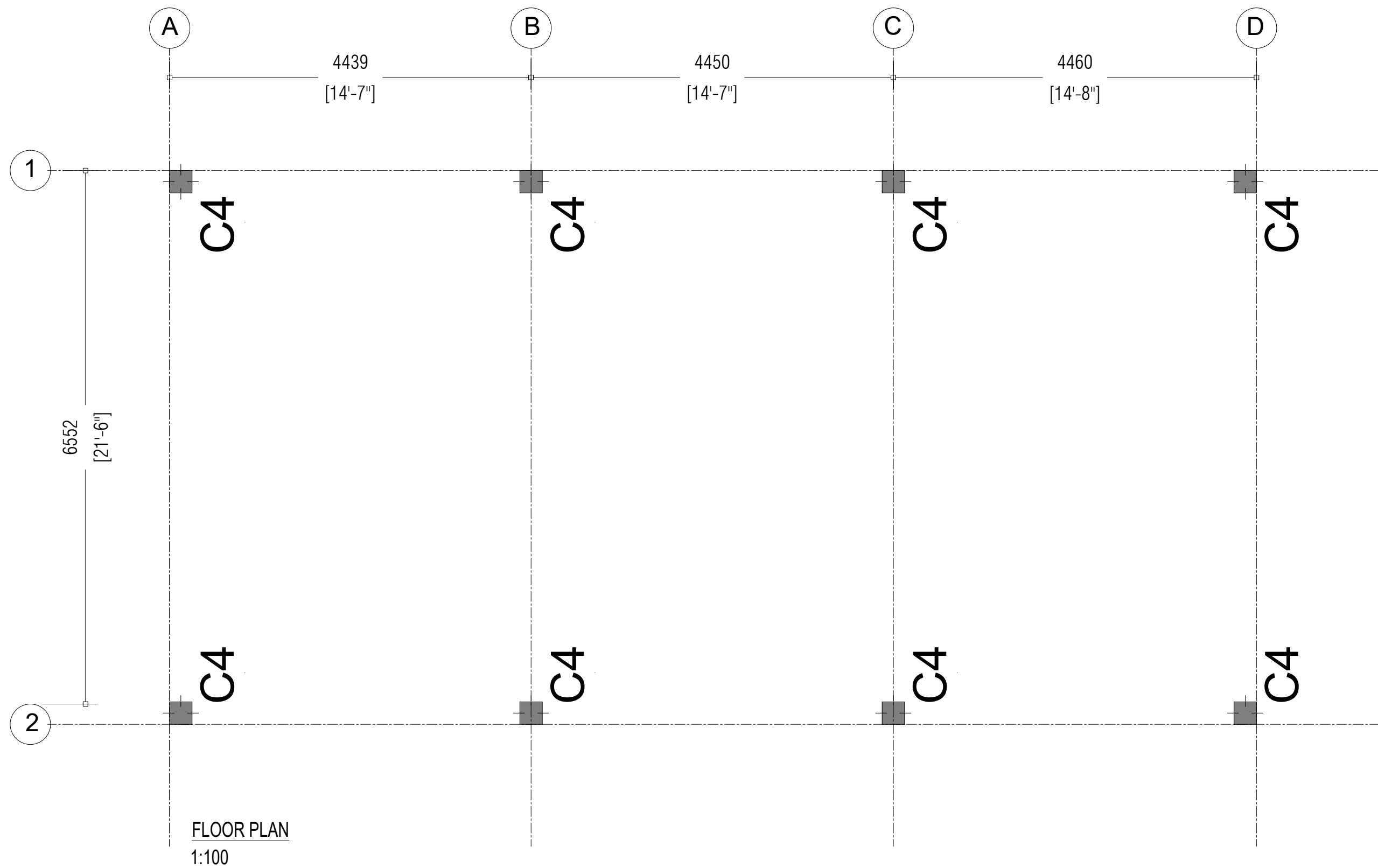
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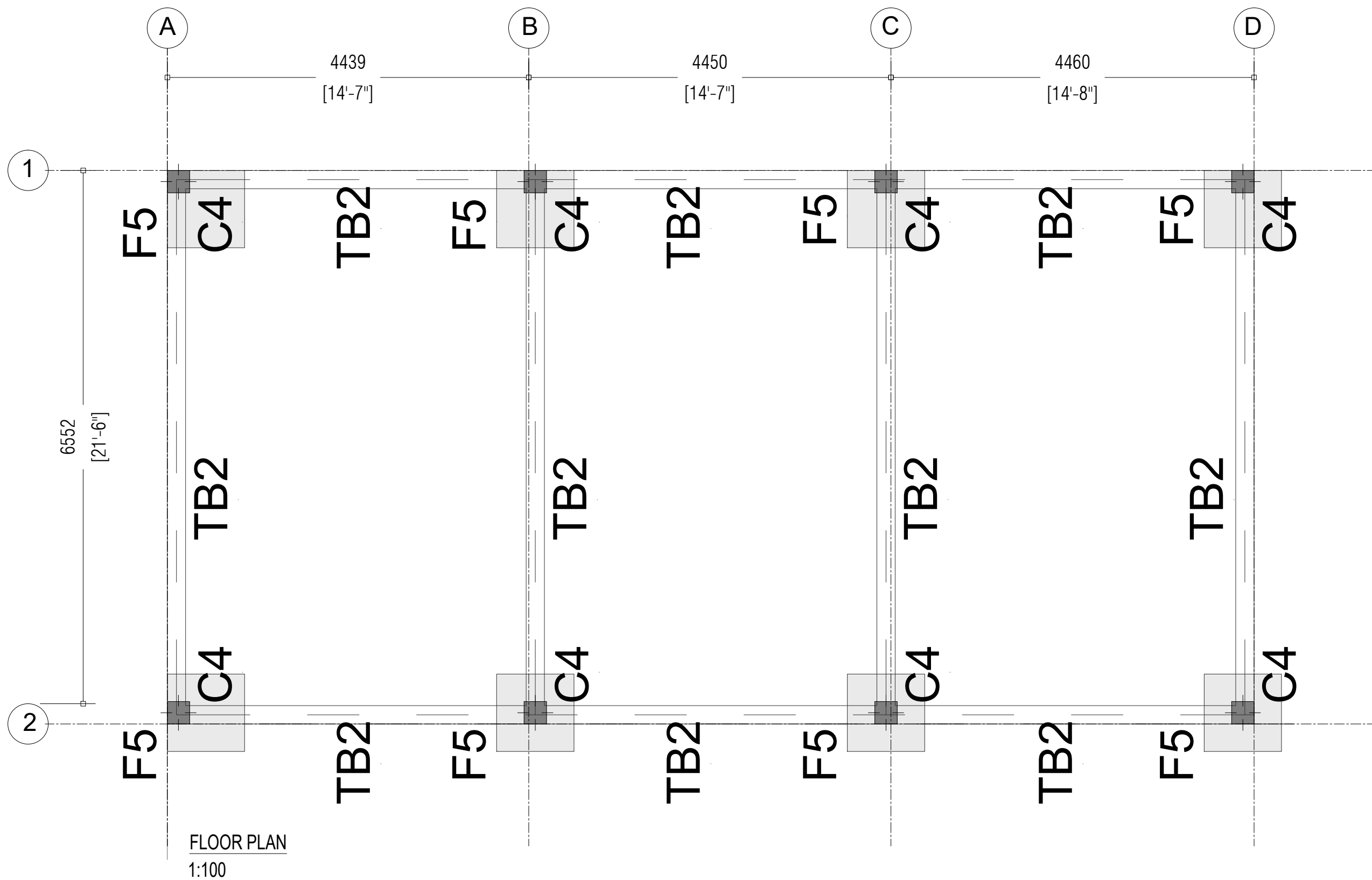
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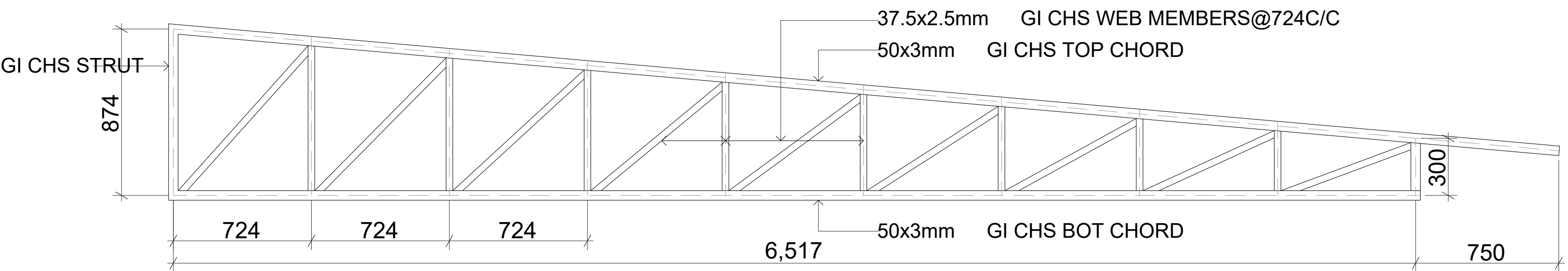




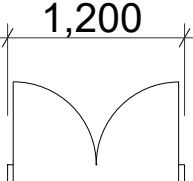
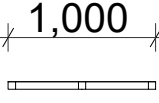
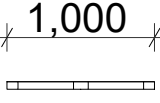
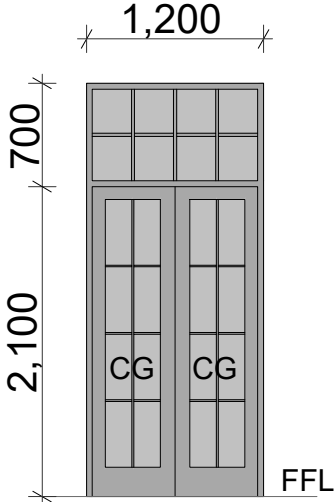
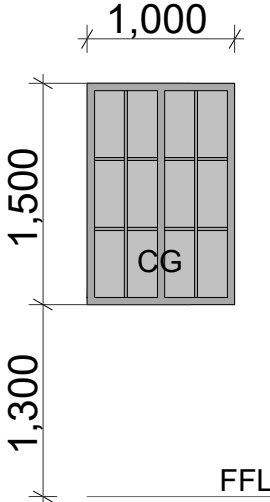
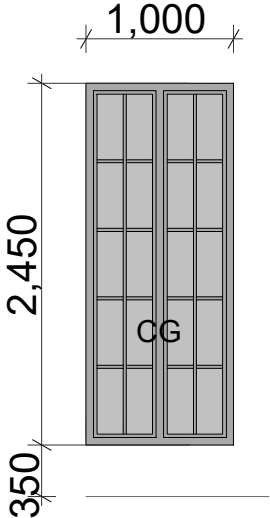








TRUSS T3





2D Symbol			
			
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





GENERAL NOTES :

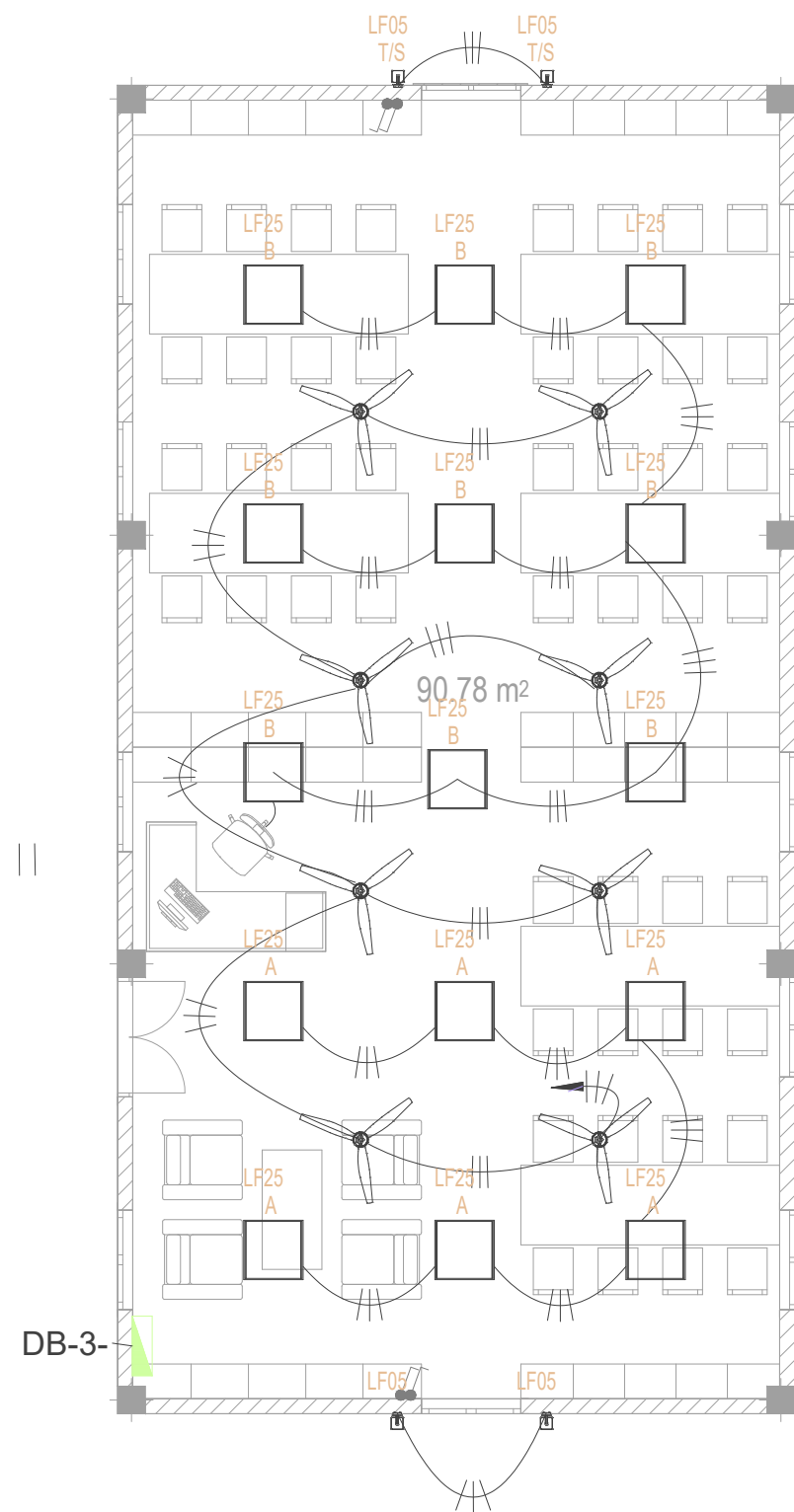
1. ALL LIGHTS & POWER POINTS SHALL BE CONNECTED TO THEIR RESPECTIVE CIRCUIT HOME RUN AS PER THE LIGHTING & POWER LAYOUT.
2. CONTRACTOR TO PREPARE SHOP DRAWINGS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR ALL LIGHTS, SWITCHES, DB, PANEL BOARD, EAC, REQUIRED ISOLATORS, ACV SERVICES AND OTHER RELEVANT 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)

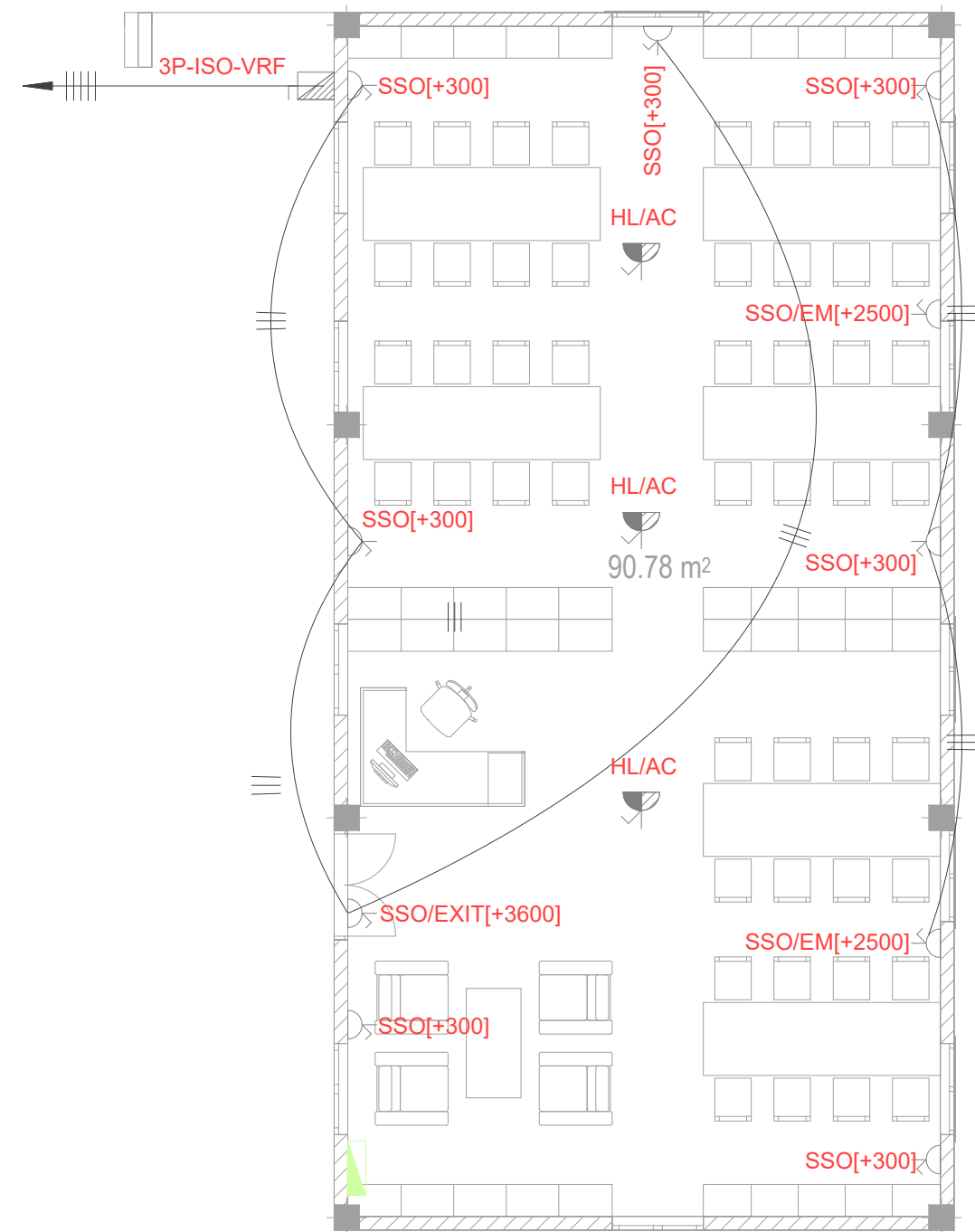
SYMBOL	CODE	DESCRIPTION
	SSO	13A, SWITCH TYPE, SINGLE POWER OUTLET
	TSO	13A, SWITCH TYPE, DOUBLE POWER OUTLET
	AC	15A, SWITCH TYPE, SINGLE POWER OUTLET
	USB	2 NO. USB CHARGER PORT

LEGEND (LIGHTING)

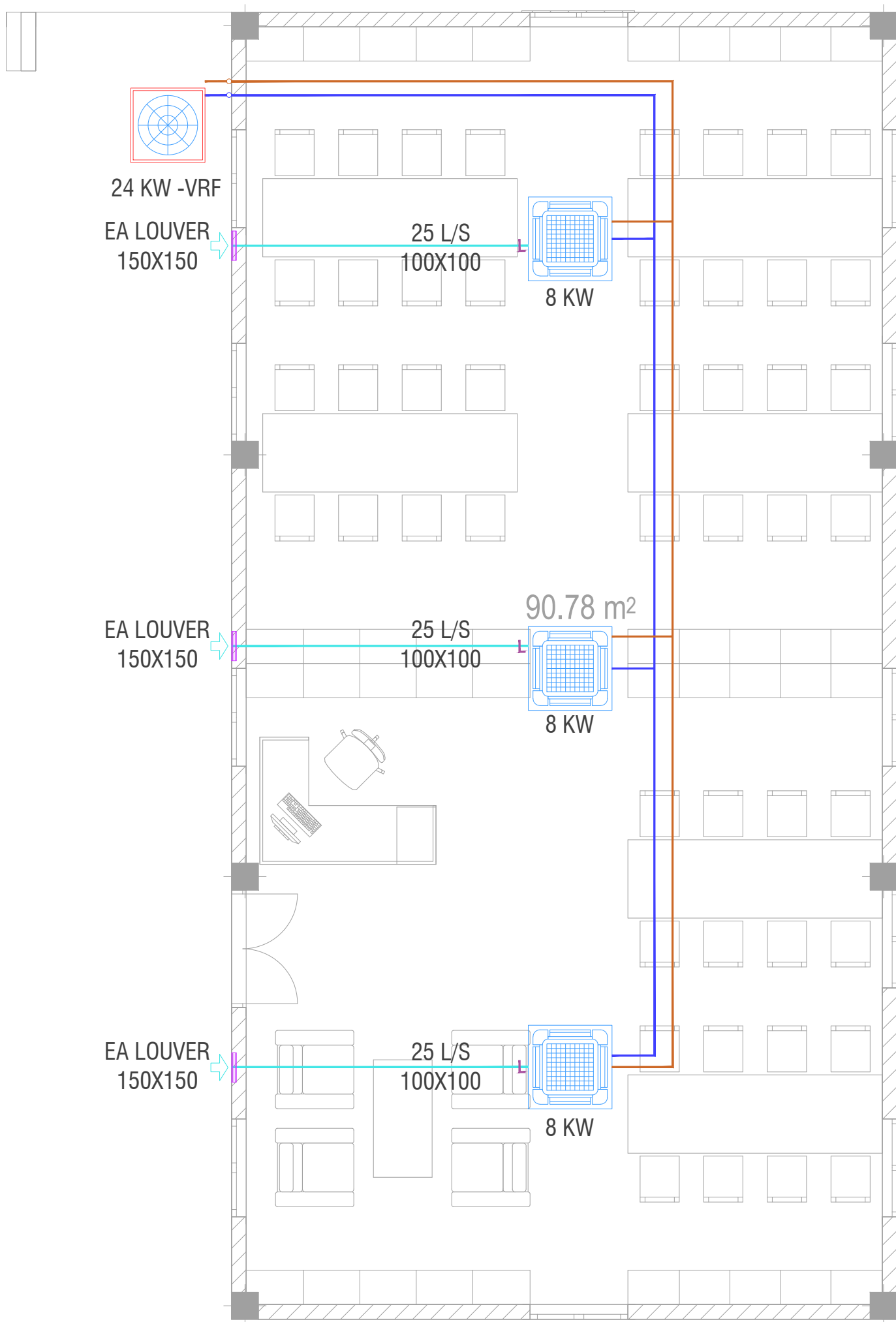
SYMBOL	CODE	DESCRIPTION
	LF05	17W, 230V, 4000K, WALL LIGHT,IP55
	LF25	18W, 230V, 3000K, CEILING MOUNTED RECESSED LIGHT



GROUND FLOOR\_LIGHTING LAYOUT



GROUND FLOOR\_POWER LAYOUT



## ACMV LEGEND

 CASSETTE UNIT

 OUTDOOR UNIT

## ACMV NOTES

1. 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.
2. THE AC UNIT SHALL BE SUITABLE FOR OPERATION UNDER TROPICAL CONDITION WITH AMBIENT TEMPERATURE AND RELATIVE HUMIDITY.
3. ALL ACMV EQUIPMENTS SHALL BE ANTI-CORROSIVE COATED.
4. FINAL INDOOR AND OUTDOOR CONFIGURATION SELECTION SHALL BE AS PER MANUFACTURE'S RECOMMENDATION
5. PROPER ACCESS FOR EASY MAINTENANCE TO BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER OF EQUIPMENTS ABOVE FALSE CEILING.
6. ALL CEILING SUSPENDED UNIT TO BE PROVIDED WITH ANTI-VIBRATION HANGERS (SPRING TYPE).
7. 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
8. ALUMINUM CLADDING TO BE PROVIDED OVER THE INSULATION FOR THE EXPOSED DUCT AND PIPE WORKS.
9. U-TRAP SHALL BE PROVIDED IN THE DRAIN PIPING (WHEREVER REQUIRED).
10. AIR OUTLET SHALL BE COMPLETELY FACTORY ALUMINUM EXTRUDED WITH POWDER COATED AND THE COLOR SHALL BE THE APPROVAL OF THE INTERIOR DESIGN.
11. LOUVER WITH BIRD SCREEN TO BE PROVIDED FOR ALL THE FRESH AIR AND EXHAUST AIR DUCT.
12. LOUVER WITH BIRD SCREEN AND FILTER TO BE PROVIDED FOR ALL THE FRESH AIR FAN DUCT
13. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ELECTRICAL POWER REQUIREMENTS TO ELECTRICAL CONTRACTOR.
14. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DRAINAGE PIPING WITH PLUMBING CONTRACTOR.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL OTHER SERVICES.
16. CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATING THE STATIC PRESSURE.
17. 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.
18. CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS BEFORE STARTING WORKS.

# ACVM