





















































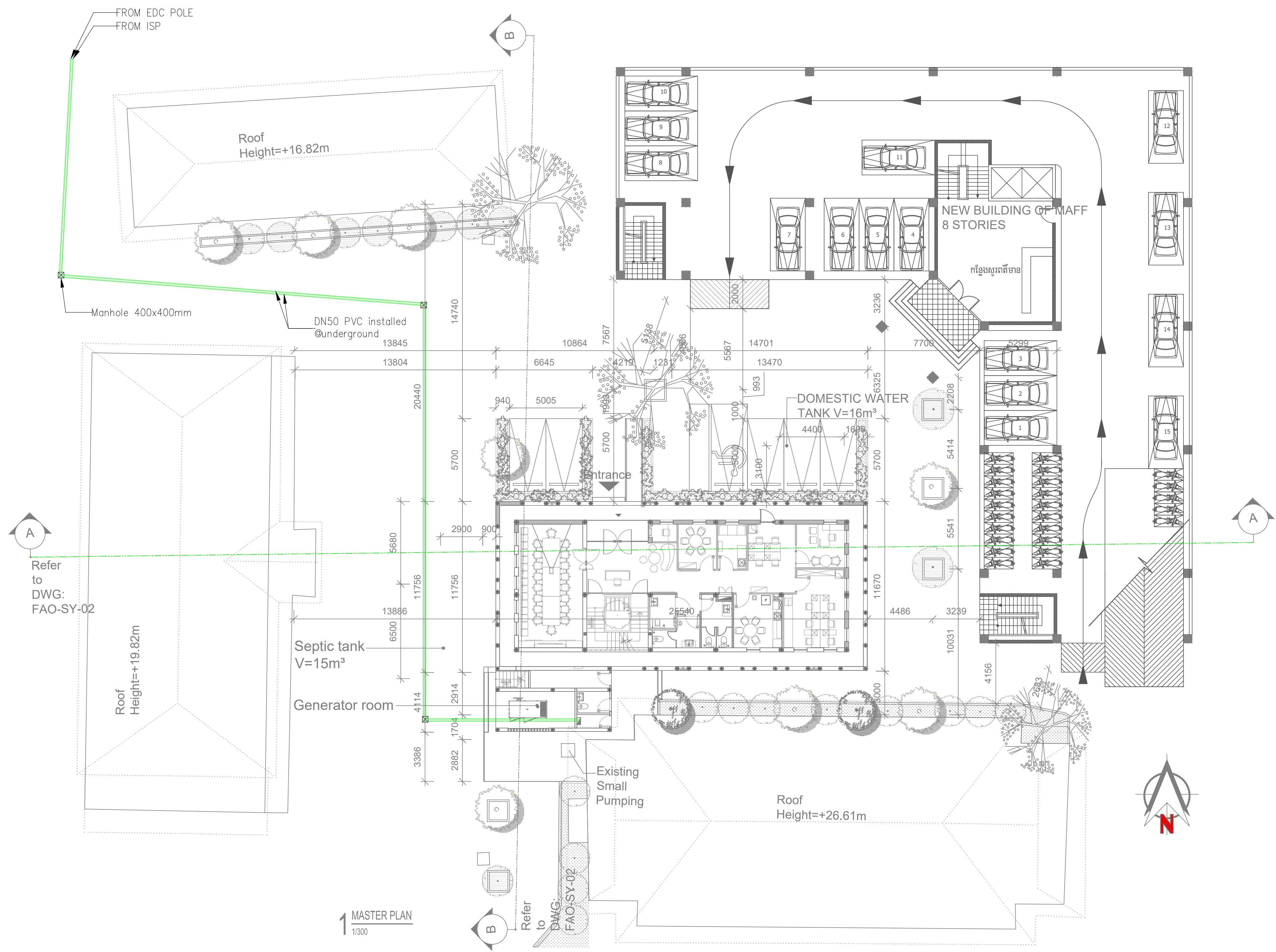
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			June 2019	July 2019	October 2019	October 2019	December 2019	February 2020	February 2020	April 2020	July 2020
1	21628-00-TN-EL-DL-5000	ELECTRICAL DRAWING LIST	Rev.0	Rev.A	Rev.B	Rev.C	Rev.D	Rev.E	Rev.F	Rev.G	Rev.H
2	21628-00-TN-EL-GN-5001	ELECTRICAL GENERAL & LEGEND	Rev.0	Rev.A							
3	21628-00-TN-EL-PP-5100	ELECTRICAL SITE LAYOUT	Rev.0							Rev.A	
4	21628-00-TN-EL-ET-5150	ELECTRICAL GF EARTHING LAYOUT	Rev.0	Rev.A				Rev.B		Rev.C	Rev.D
5	21628-00-TN-EL-LP-5151	ELECTRICAL 1F LIGHTENING PREVENTION SYSTEM LAYOUT								Rev.0	Rev.A
6	21628-00-TN-EL-LP-5152	ELECTRICAL RF LIGHTENING PREVENTION SYSTEM LAYOUT								Rev.0	
7	21628-00-TN-EL-LP-5153	ELECTRICAL RF LIGHTENING PREVENTION SYSTEM LAYOUT								Rev.0	
8	21628-00-TN-EL-PO-5200	ELECTRICAL GF POWER & POWER FOR MECHANICAL LAYOUT	Rev.0	Rev.A		Rev.B					Rev.C
9	21628-00-TN-EL-PO-5201	ELECTRICAL 1F POWER & POWER FOR MECHANICAL LAYOUT	Rev.0	Rev.A		Rev.B					Rev.C
10	21628-00-TN-EL-PO-5202	ELECTRICAL URF POWER & POWER FOR MECHANICAL LAYOUT	Rev.0	Rev.A		Rev.B					
11	21628-00-TN-EL-LT-5300	ELECTRICAL GF LIGHTING LAYOUT	Rev.0	Rev.A							
12	21628-00-TN-EL-LT-5301	ELECTRICAL 1F LIGHTING LAYOUT	Rev.0	Rev.A							
13	21628-00-TN-EL-LT-5302	ELECTRICAL URF LIGHTING LAYOUT	Rev.0	Rev.A					Rev.B		
14	21628-00-TN-DT-FA-5450	ELECTRICAL GF FIRE ALARM LAYOUT	Rev.0	Rev.A							
15	21628-00-TN-DT-FA-5451	ELECTRICAL 1F FIRE ALARM LAYOUT	Rev.0	Rev.A							
16	21628-00-TN-DT-CS-5500	ELECTRICAL GF ACCESS CONTROL LAYOUT	Rev.0	Rev.A							
17	21628-00-TN-DT-CS-5501	ELECTRICAL 1F ACCESS CONTROL LAYOUT	Rev.0	Rev.A					Rev.B		
18	21628-00-TN-DT-TV-5600	ELECTRICAL GF CCTV LAYOUT	Rev.0	Rev.A			Rev.B				
19	21628-00-TN-DT-TV-5601	ELECTRICAL 1F CCTV LAYOUT	Rev.0	Rev.A							
20	21628-00-TN-DT-TV-5602	ELECTRICAL URF CCTV LAYOUT	Rev.0	Rev.A					Rev.B		
21	21628-00-TN-DT-PV-5650	ELECTRICAL GF PAVA LAYOUT	Rev.0	Rev.A							
22	21628-00-TN-EL-SC-5800	ELECTRICAL MAIN DISTRIBUTION BOARDS	Rev.0	Rev.A	Rev.B					Rev.C	
23	21628-00-TN-EL-SC-5801	ELECTRICAL GF DISTRIBUTION BOARDS	Rev.0	Rev.A	Rev.B	Rev.C				Rev.D	Rev.E
24	21628-00-TN-EL-SC-5802	ELECTRICAL 1F DISTRIBUTION BOARDS	Rev.0	Rev.A		Rev.B			Rev.C	Rev.D	Rev.E
25	21628-00-TN-EL-SC-5803	ELECTRICAL SCHEMATIC EARTHING SYSTEM	Rev.0								Rev.A
26	21628-00-TN-DT-SC-5804	ELECTRICAL SCHEMATIC DATA & TELECOMMUNICATION	Rev.0		Rev.A					Rev.B	Rev.C
27	21628-00-TN-DT-DD-5900	ELECTRICAL DETAILS CARD ACCESS FOR DOUBLE DOOR	Rev.0								Rev.A
28	21628-00-TN-DT-DD-5901	ELECTRICAL DETAILS EARTHING SYSTEM						Rev.0		Rev.A	Rev.B
29	21628-00-TN-DT-DT-7000	ELECTRICAL GF DATA & TELECOMMUNICATION LAYOUT	Rev.0	Rev.A							
30	21628-00-TN-DT-DT-7001	ELECTRICAL 1F DATA & TELECOMMUNICATION LAYOUT	Rev.0	Rev.A						Rev.B	
31	21628-00-TN-EL-MN-8000	ELECTRICAL GF MAIN NETWORK LAYOUT	Rev.0	Rev.A	Rev.B						
32	21628-00-TN-EL-MN-8001	ELECTRICAL 1F MAIN NETWORK LAYOUT	Rev.0	Rev.A							

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				B		16/10/2019		Third Issue		GK	
				A		4/07/2019		Second Issue		GK	
0		20/06/2019		First Issue		GK					
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										GK	
										GK	
										H	
										A3	
										N/A@A3	
										03/07/2020	

LIGHTING SYSTEM	
TYPE	DESCRIPTION
	1 GANG 1 WAY SWITCH
	2 GANG 1 WAY SWITCH
	3 GANG 1 WAY SWITCH
	MOTION DETECTOR
	DOWN LIGHT(TOILET AND TECHNICAL ROOM)
	TWIN RECESSED DOWNRIGHT
	TRIPLE RECESSED DOWNRIGHT
	PENDENT LIGHT(MEETING ROOM)
	DOWN LIGHT(ABOVE WORK STATION)
	LINER RECESSED LIGHT
	DOWN LIGHT(RECEPTION AREA)
	SURFACE MOUNTED FLUORESCENT LIGHT
	RECESSED FLUORESCENT LIGHT
	FLUORESCENT LIGHT
	UPLIGHTER
	WALL MOUNTED
	EMERGENCY LIGHT
	EXIT LIGHT
POWER & POWER FOR MECHANICAL	
TYPE	DESCRIPTION
	SINGLE POWER SOCKET
	DOUBLE POWER SOCKET
	POWER FOR MECHANICAL (POWER POINT)
	POWER FOR ROLLED UP SCREEN
PUBLIC ADDRESS & VOICE ALARM	
TYPE	DESCRIPTION
	CEILING SPEAKER
	AMPLIFIER
	AUDIO DSP
	DIGITAL WIRELESS RECEIVER
	COAXIAL CABLE

CCTV	
TYPE	DESCRIPTION
	IP INDOOR DOME CAMERA
	PoE SWITCH 24 PORTS
	DIGITAL VIDEO RECORDER
	ACCESS CONTROL PANEL
	OPTICAL FIBER SINGLE MODE
	1 PAIR 22AWG STP CABLE
	CAT6 UTP CABLE
EARTHING SYSTEM	
TYPE	DESCRIPTION
	EARTH PIT WITH ACCESS COVER 300x300x300mm
	EARTH ROD Ø14.2mm,LENGTH 3m
	COPPER EARTH BAR
	INTERCONNECTED BARE COPPER CONDUCTOR 50mm2
	COPPER GROUNDING 50mm2
FIRE ALARM	
TYPE	DESCRIPTION
	MANUAL CALL POINT
	FIRE ALARM BELL WITH FLASH LIGHT
	SMOKE DETECTOR ADDRESSABLE
	HEAT DETECTOR ADDRESSABLE
	OUTPUT MODULE
	2Cx1.5mm2 FIRE RATED CABLE
NOTE : OUTPUT MODULE TO BE CONNECT WITH AIR CONDITIONING	
DATA & TELECOMMUNICATION	
TYPE	DESCRIPTION
	1 PORT DATA POINT
	2 PORTS DATA POINT
	TELEPHONE POINT
	HDMI POINT
	VGA POINT
	DOOR RELEASE BUTTON
	FINGER PRINT
	PRIVATE AUTOMATIC BRANCH EXCHANGE

General Legend:					Drawing Notes:				Drawing Title:																			
Drawing No.:		21628-00-TN-EL-GN-5001 Rev.A			<table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>																				Electrical GENERAL & LEGEND			
Project Name:		Client:	Supported & Funded By:	Implementation:	Design:	A 04/07/2019 Second Issue		GK		Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:													
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Key Map:

General Legend:

Drawing No.: 21628-00-TN-EL-PP-5100 Rev.A

Drawing Notes:

A	06/04/2020	Second Issue	GK
B	25/06/2019	First Issue	GK
Rev.	Date	Description	Approved

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Project Name Line 2
Location

Client: Client Line 1
Client Line 2
Client Line 3

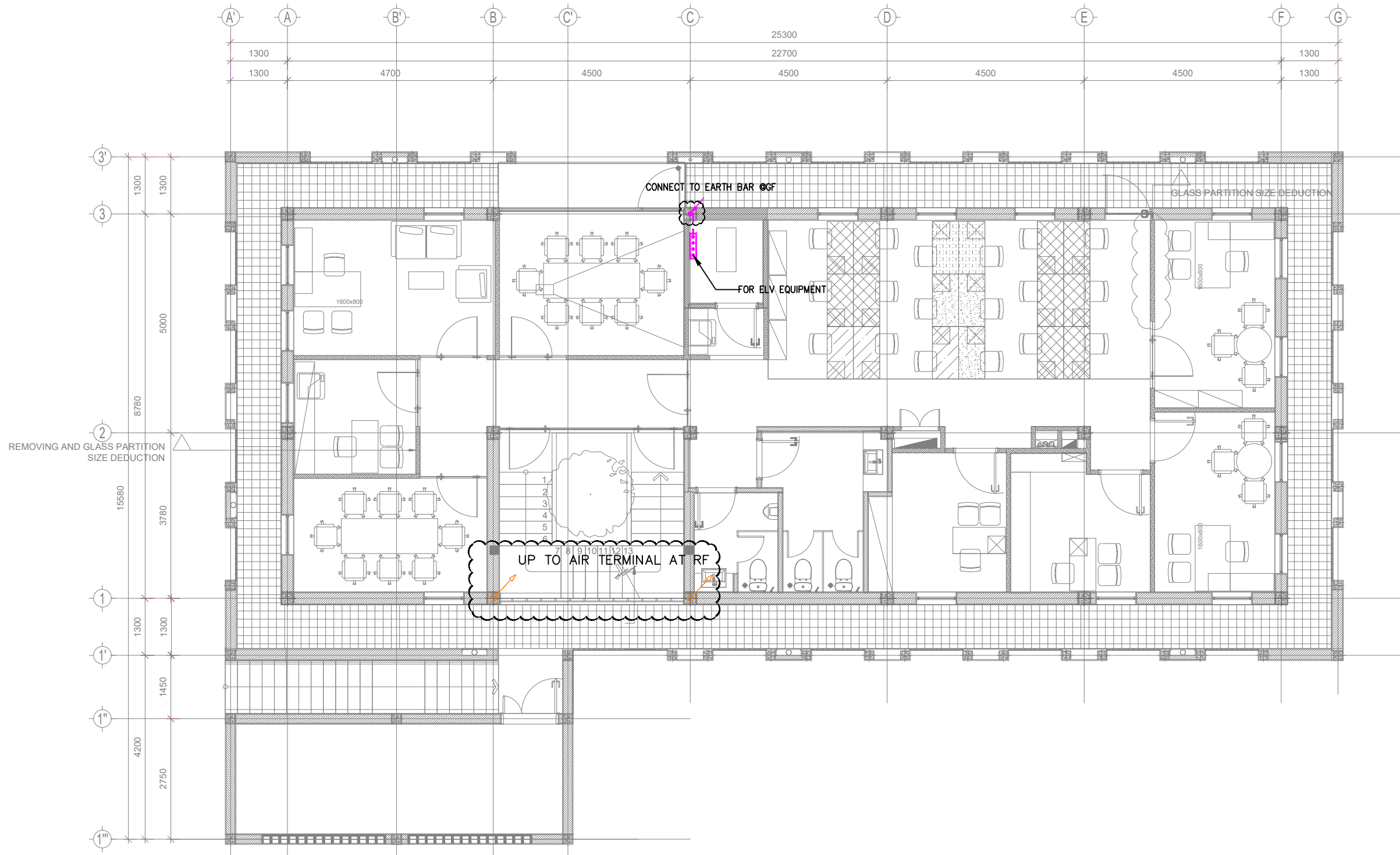
Supported & Funded By: Donor Line 1
Donor Line 2
Donor Line 3

Implementation: UNOPS, Hub - Office
Address Line 1,
Address Line 2,
Address Line 3,
City, Country

Design: GK Engineering
St.261, Sangkat Boeung Salang
Phnom Penh, CAMBODIA
www.gkengineering.pro

Drawing Title: Electrical
SITE LAYOUT

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
21628	00	TN	EL	PP	5100
Drawn	Check	Appr.	Rev.	Size	Issue Date
GK	GK	GK	A	A1	GK 06/04/2020



General Legend:

Drawing No.:

21628-00-TN-EL-LP-5151 Rev.A

Project Name:

Project Name Line 1
Project Name Line 2
Location

Client:

Client Name Line 1
Client Name Line 2
Location

Supported & Funded By:

Donor Name Line 1
Donor Name Line 2
Donor Name Line 3

Implementation:

UNOPS ,Hub - Office
Address Line 1,
Address Line 2,
Address Line 3,
City, Country

Design:

GK Engineering
St.261, Sangkat Boeung Salang
Phnom Penh, CAMBODIA
www.gkengineering.pro

Drawing Notes:

A	03/07/2020	Second Issue
0	08/04/2020	First Issue
Rev.	Date	Description
		Approved

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Drawing Title:

Electrical
ELECTRICAL 1F LIGHTENING
PREVENTION SYSTEM LAYOUT

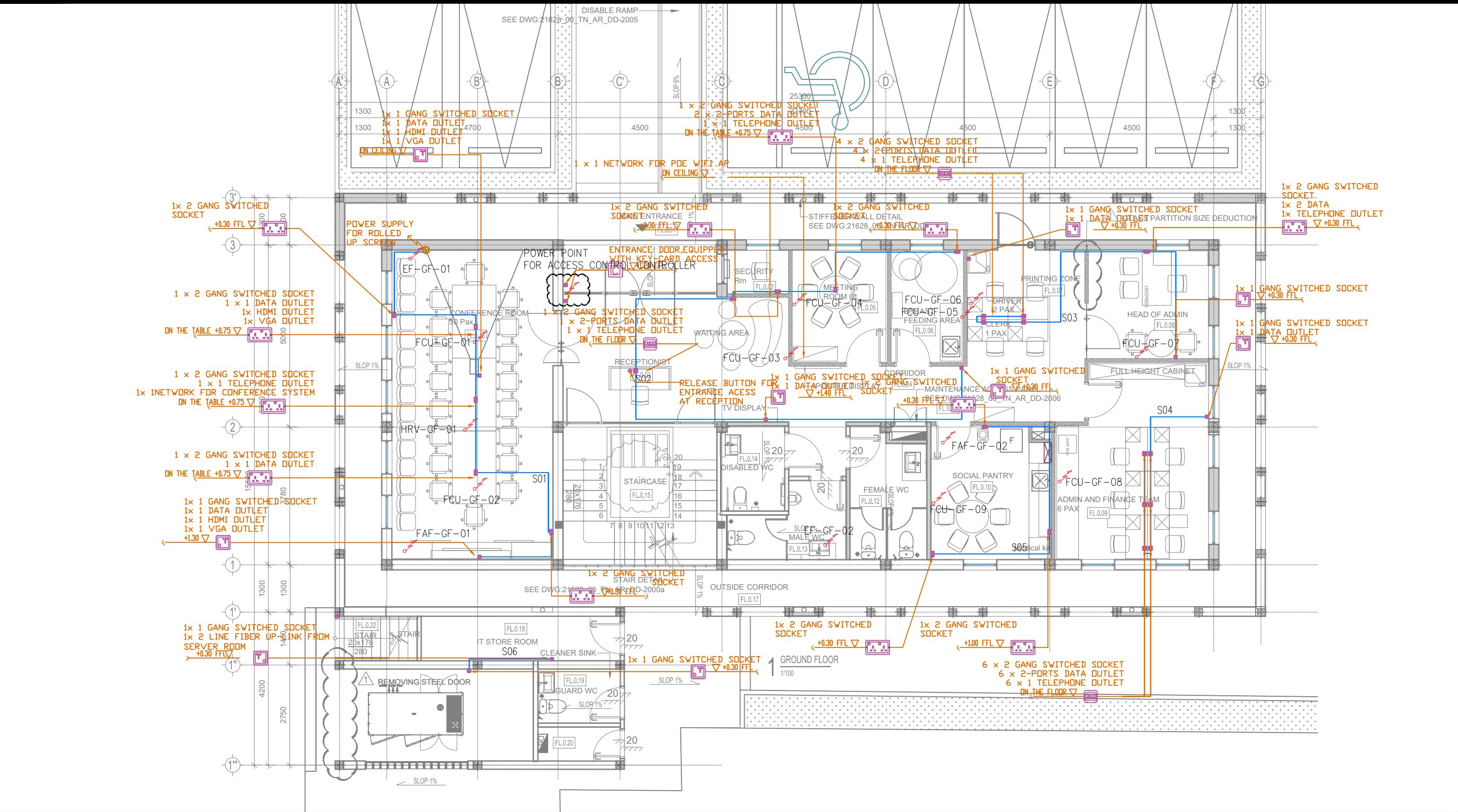
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21628 00 TN EL LP 5151

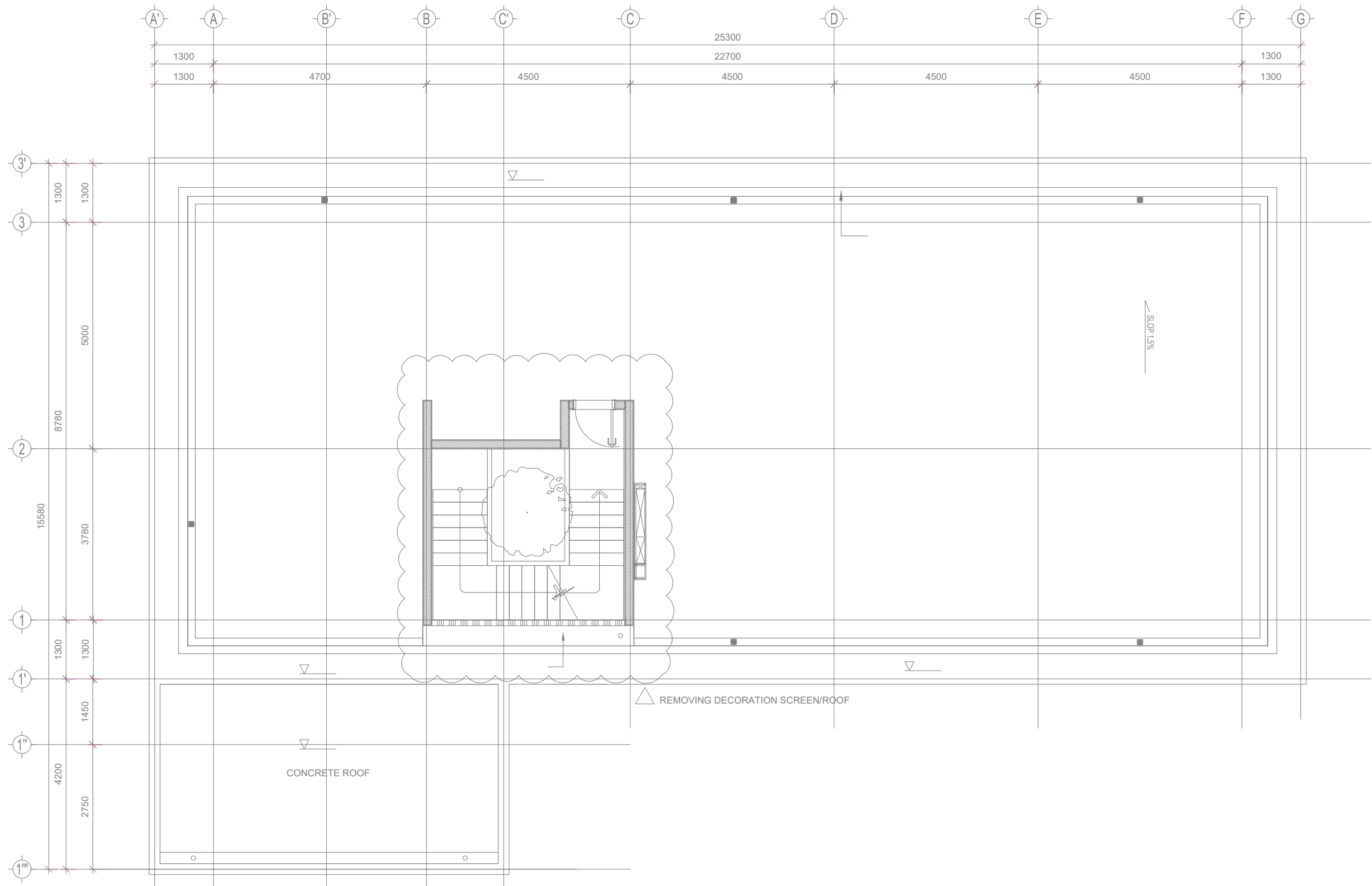
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General Legend:		Drawing Notes:				Drawing Title:					
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21628-00-TN-EL-PO-5200 Rev.C						GF POWER & POWER FOR MECHANICAL LAYOUT					
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						03/07/2020					



General Legend:

Drawing No.:

21628-00-TN-EL-PO-5202 Rev.B

Project Name:

Project Name Line 1
Project Name Line 2
Location

Client:

Client Name Line 1
Client Name Line 2
Location

Insert Logo Bitmap

Supported & Funded By:

Donor Name Line 1
Donor Name Line 2
Donor Name Line 3

Insert Logo Bitmap

Implementation:

UNOPS, Hub - Office
Address Line 1,
Address Line 2,
Address Line 3,
City, Country



Design:

GK Engineering
St.261, Sangkat Boeung Salang
Phnom Penh, CAMBODIA
www.gkengineering.pro



Drawing Notes:

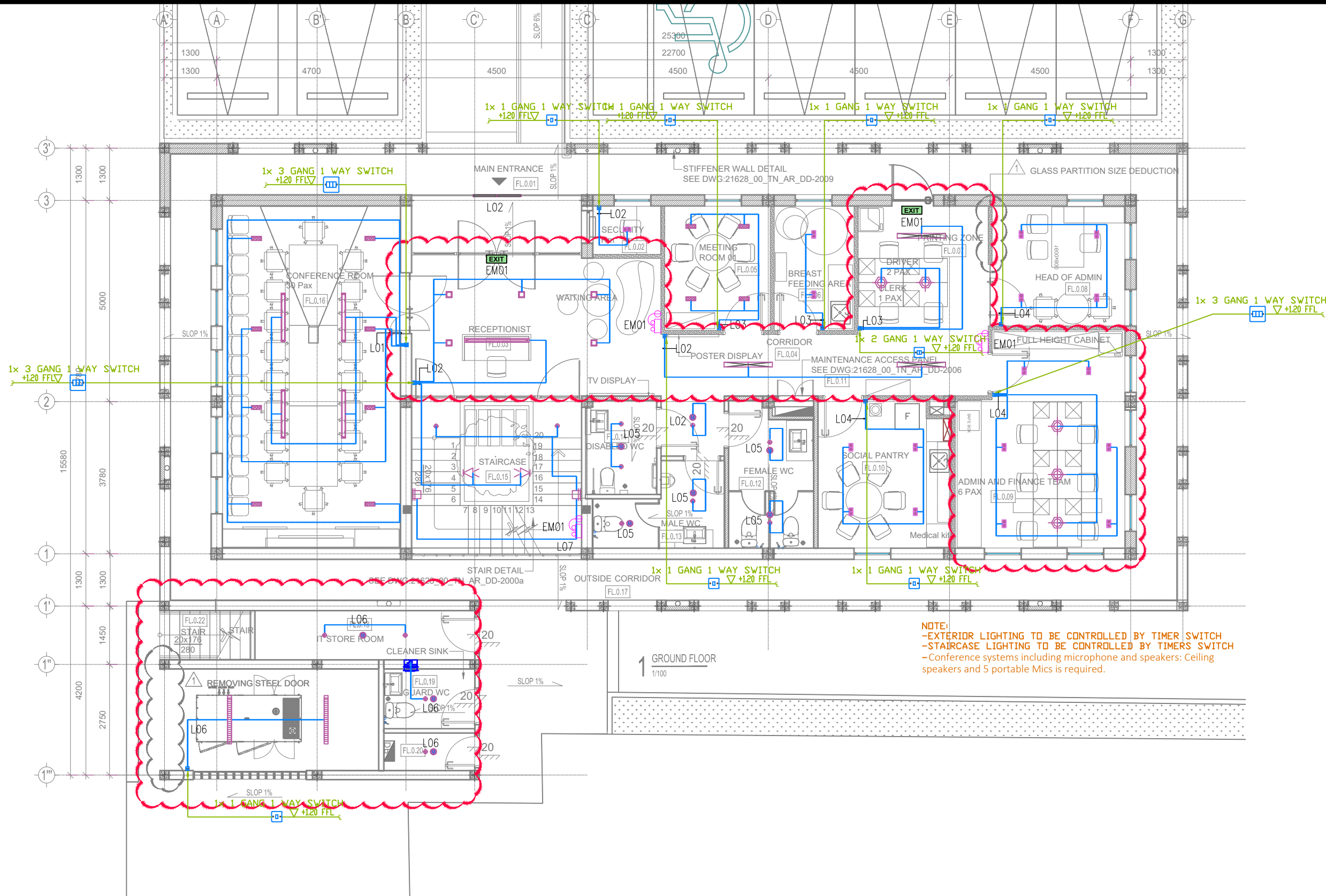
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Rev.	Date	Description	Approved

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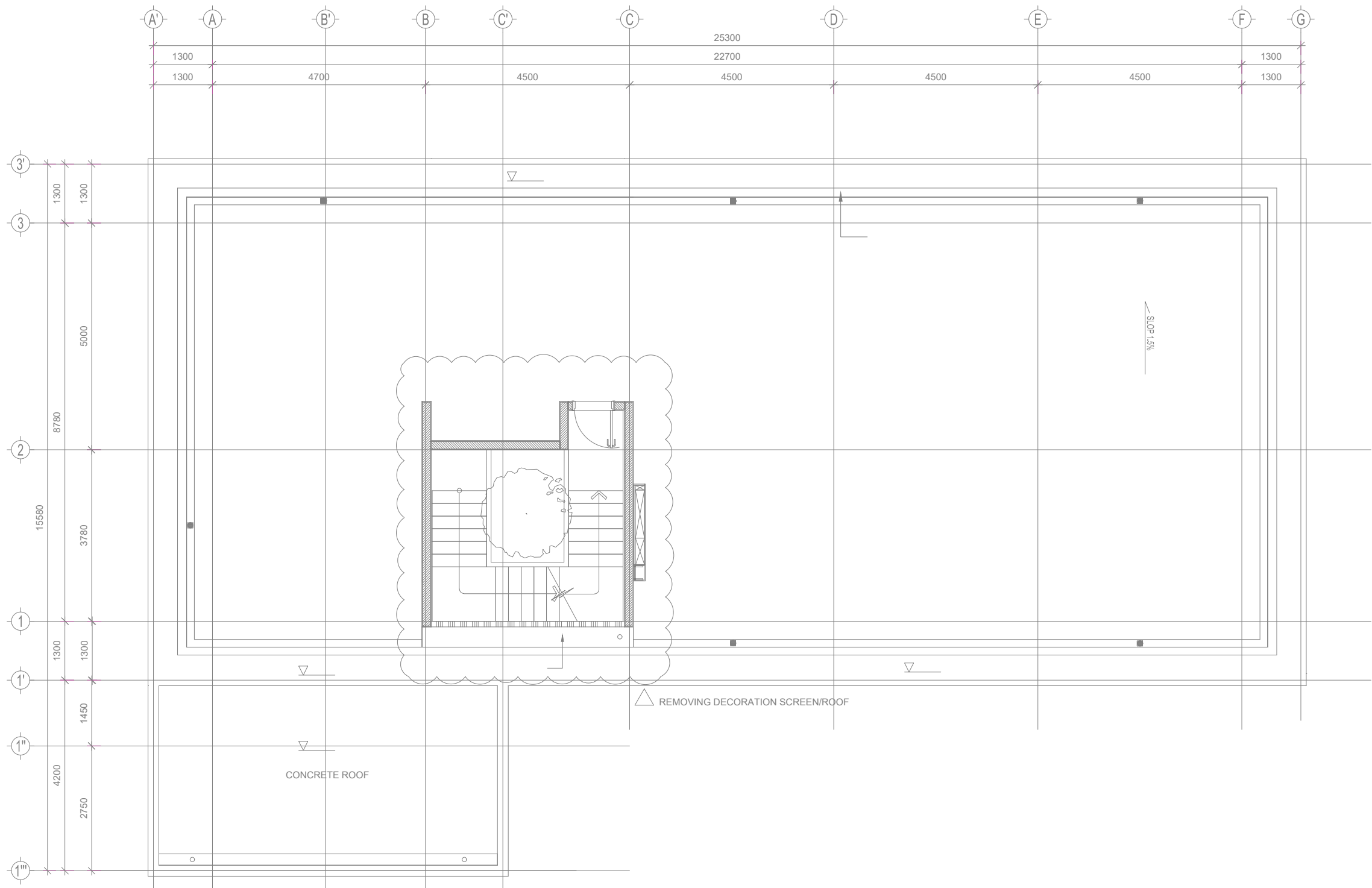
Electrical
URF POWER & POWER FOR
MECHANICAL LAYOUT

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:	
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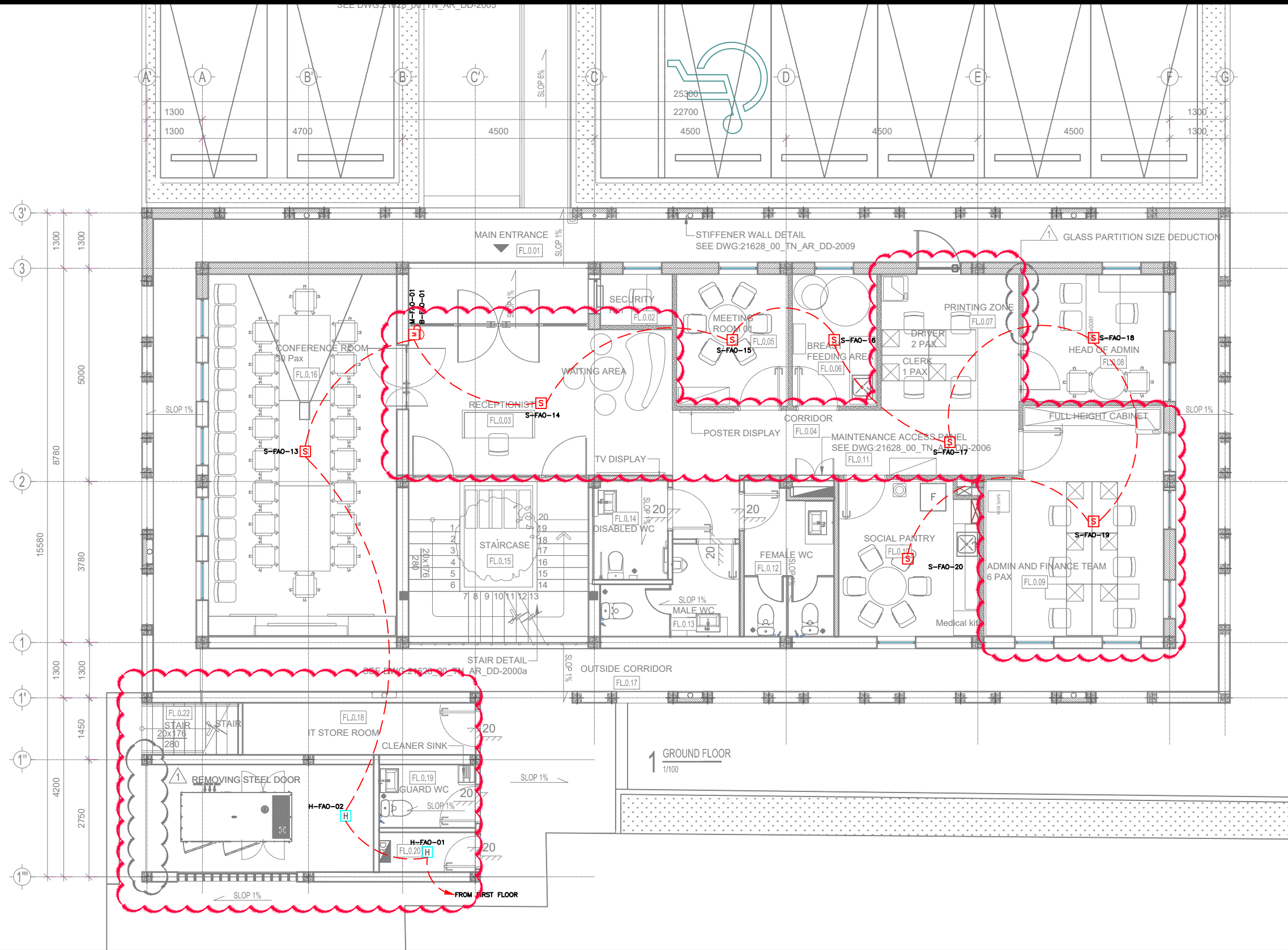


NOTE:
-EXTERIOR LIGHTING TO BE CONTROLLED BY TIMER SWITCH
-STAIRCASE LIGHTING TO BE CONTROLLED BY TIMERS SWITCH
-Conference systems including microphone and speakers: Ceiling speakers and 5 portable Mics is required.

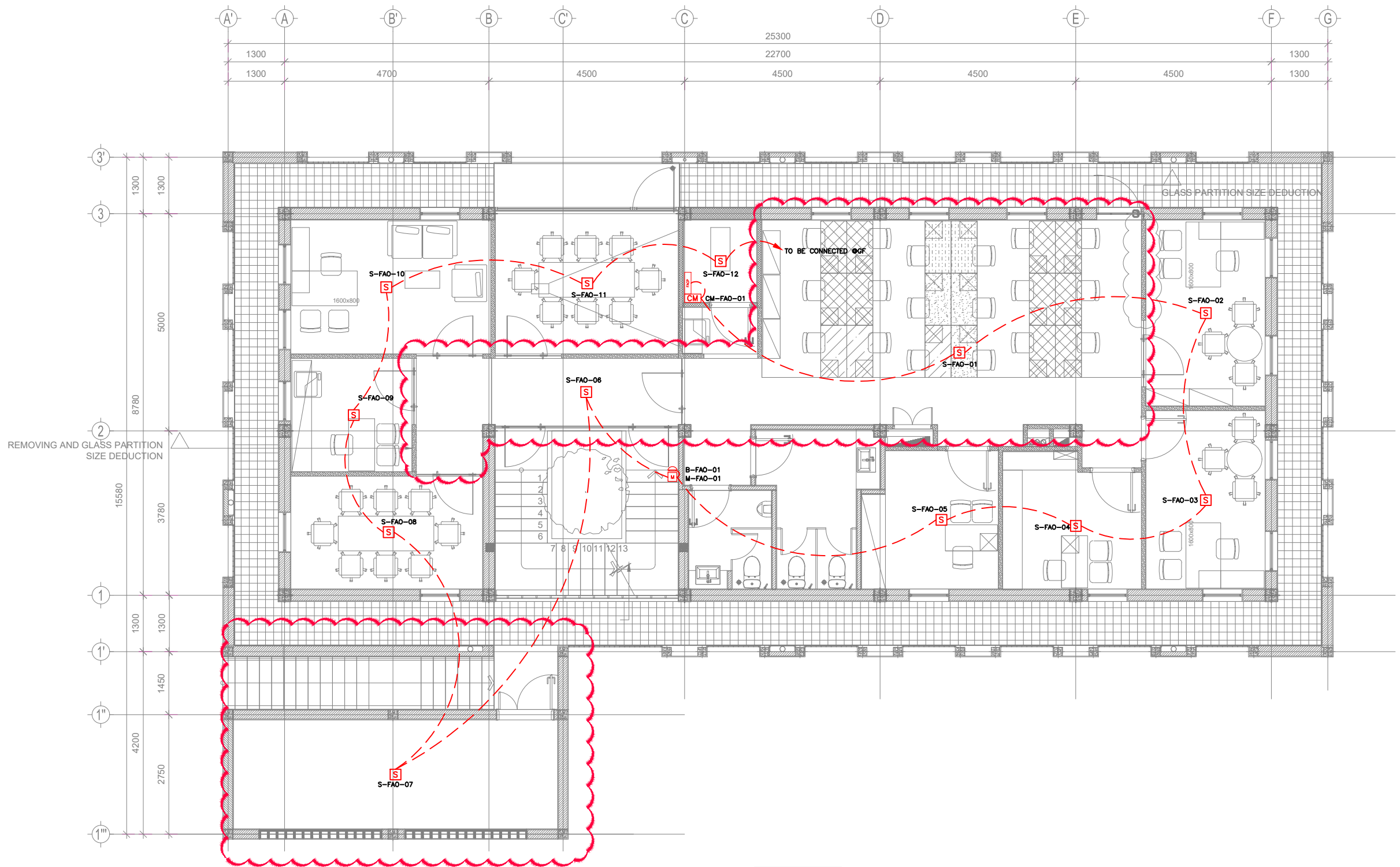
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General Legend:					Drawing Notes:				Drawing Title:														
Drawing No.:		21628-00-TN-EL-LT-5302 Rev.B							Electrical URF LIGHTING LAYOUT														
B		20/02/2020		Third Issue				GK		Project No.:				SUB No.:		Stage:		Discipline:		Subject:		Seq No.:	
A		04/07/2019		Second Issue				GK		21628		00		TN		EL		LT		5302			
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General Legend:			Drawing Notes:			Drawing Title:		
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21628-00-TN-DT-FA-5450 Rev.A						GF FIRE ALARM LAYOUT		
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General Legend:

Drawing No.:

21628-00-TN-DT-FA-5451 Rev.A

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Project Name Line 1
Project Name Line 2
Location

Client:

Client Name Line 1
Client Name Line 2
Location

Supported & Funded By:

Donor Name Line 1
Donor Name Line 2
Donor Name Line 3

Implementation:

UNOPS ,Hub - Office
Address Line 1,
Address Line 2,
Address Line 3,
City, Country

Design:

GK Engineering
St.261, Sangkat Boeung Salang
Phnom Penh, CAMBODIA
www.gkengineering.pro

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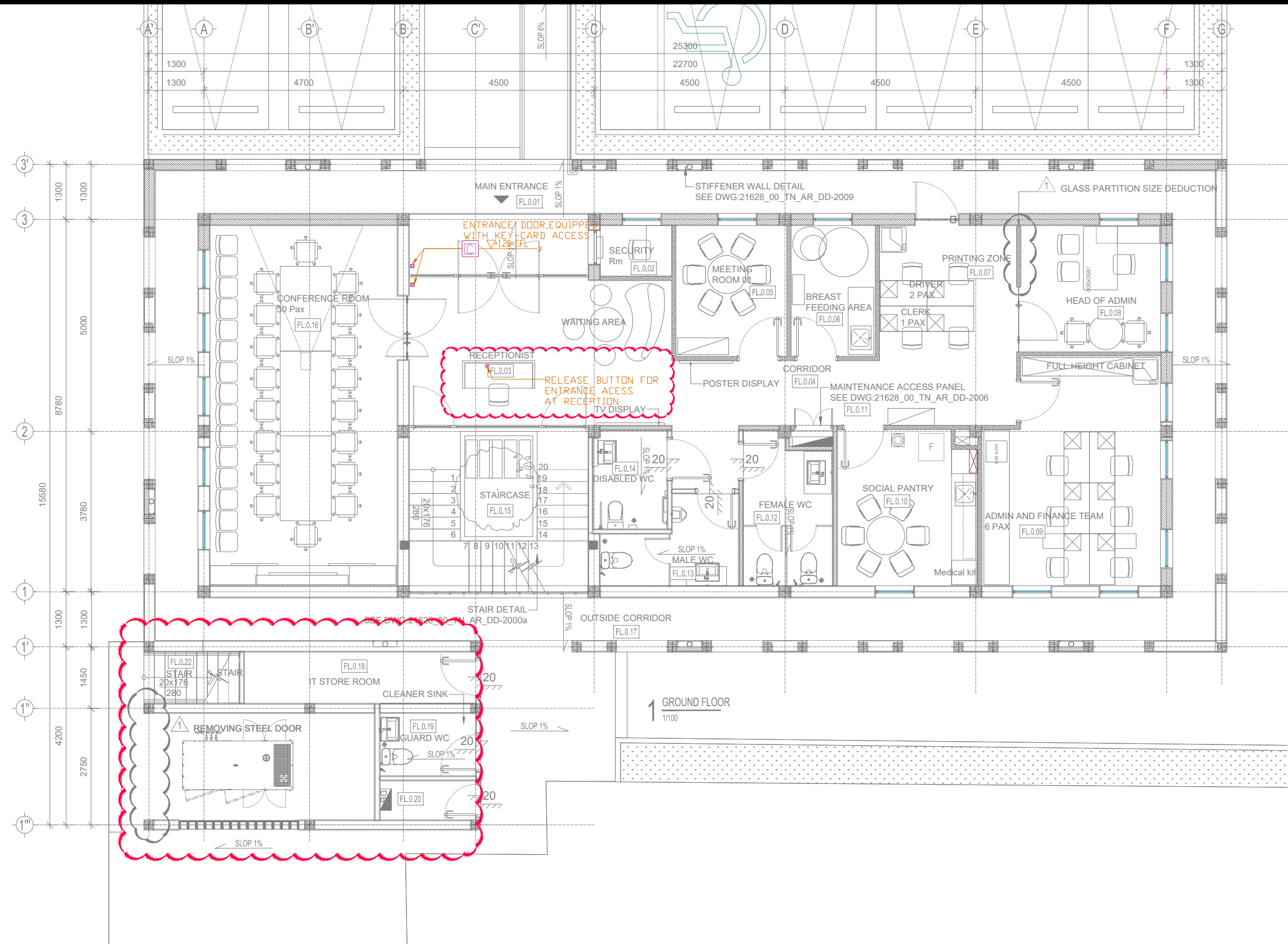
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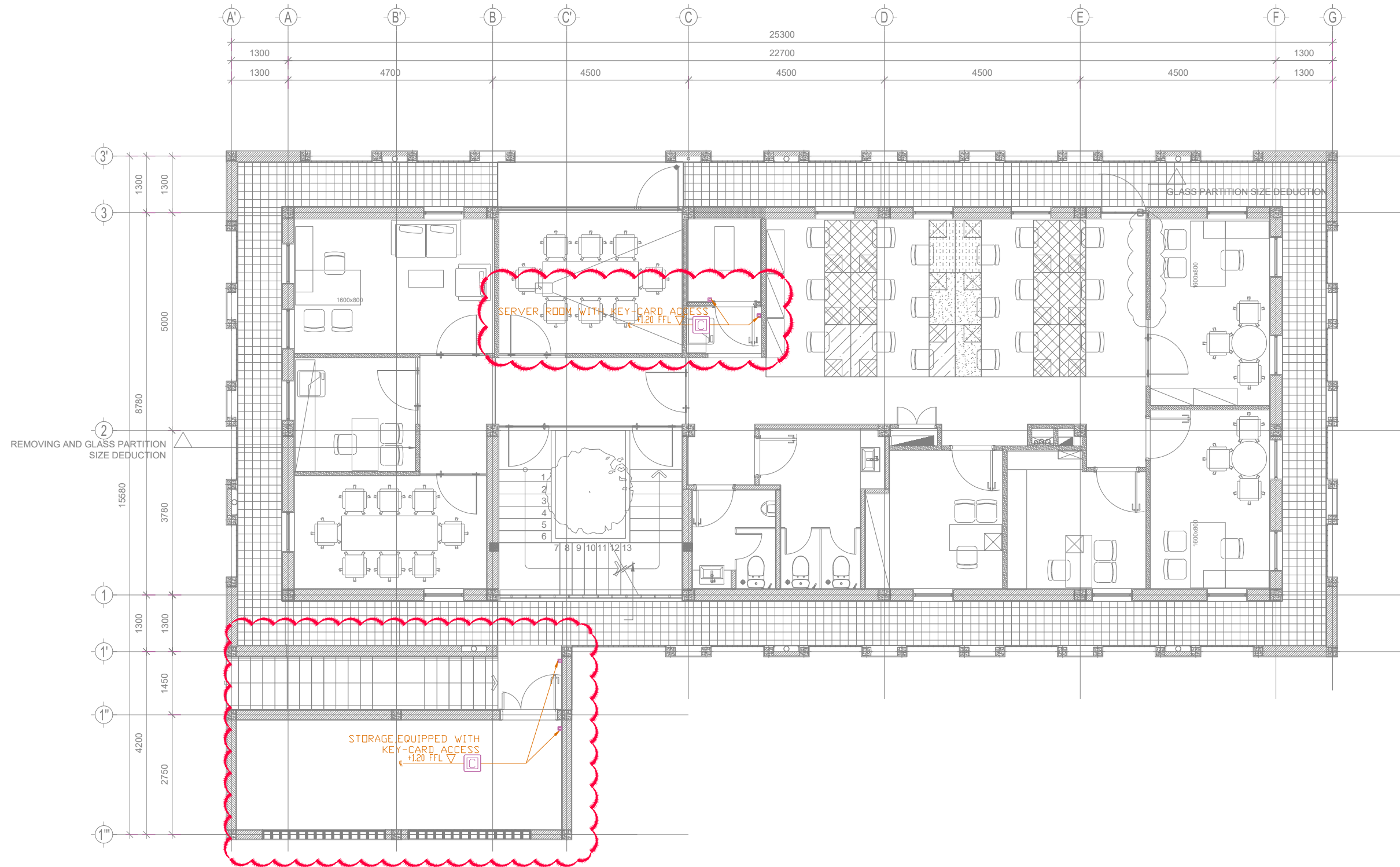
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Electrical
1F FIRE ALARM LAYOUT

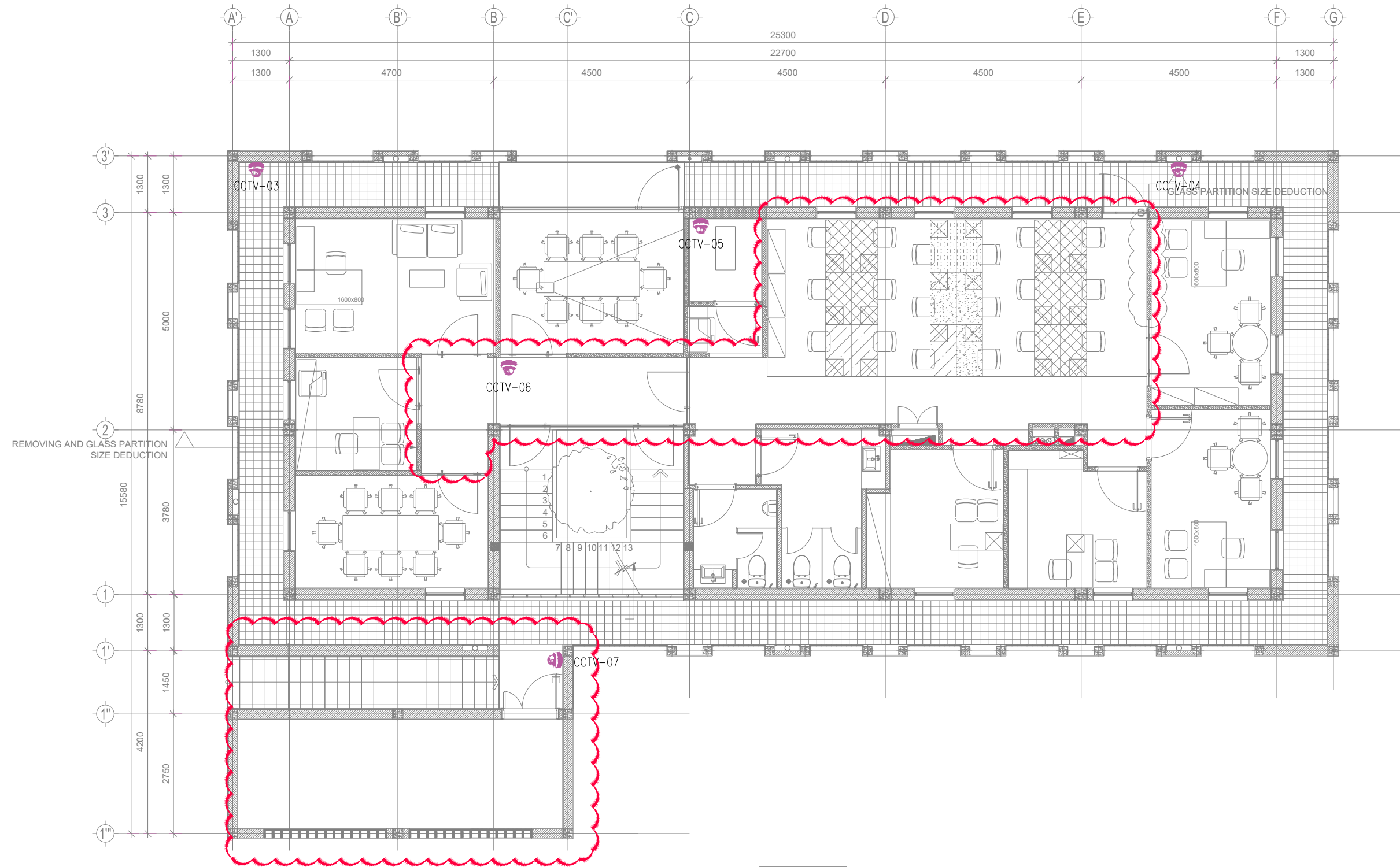
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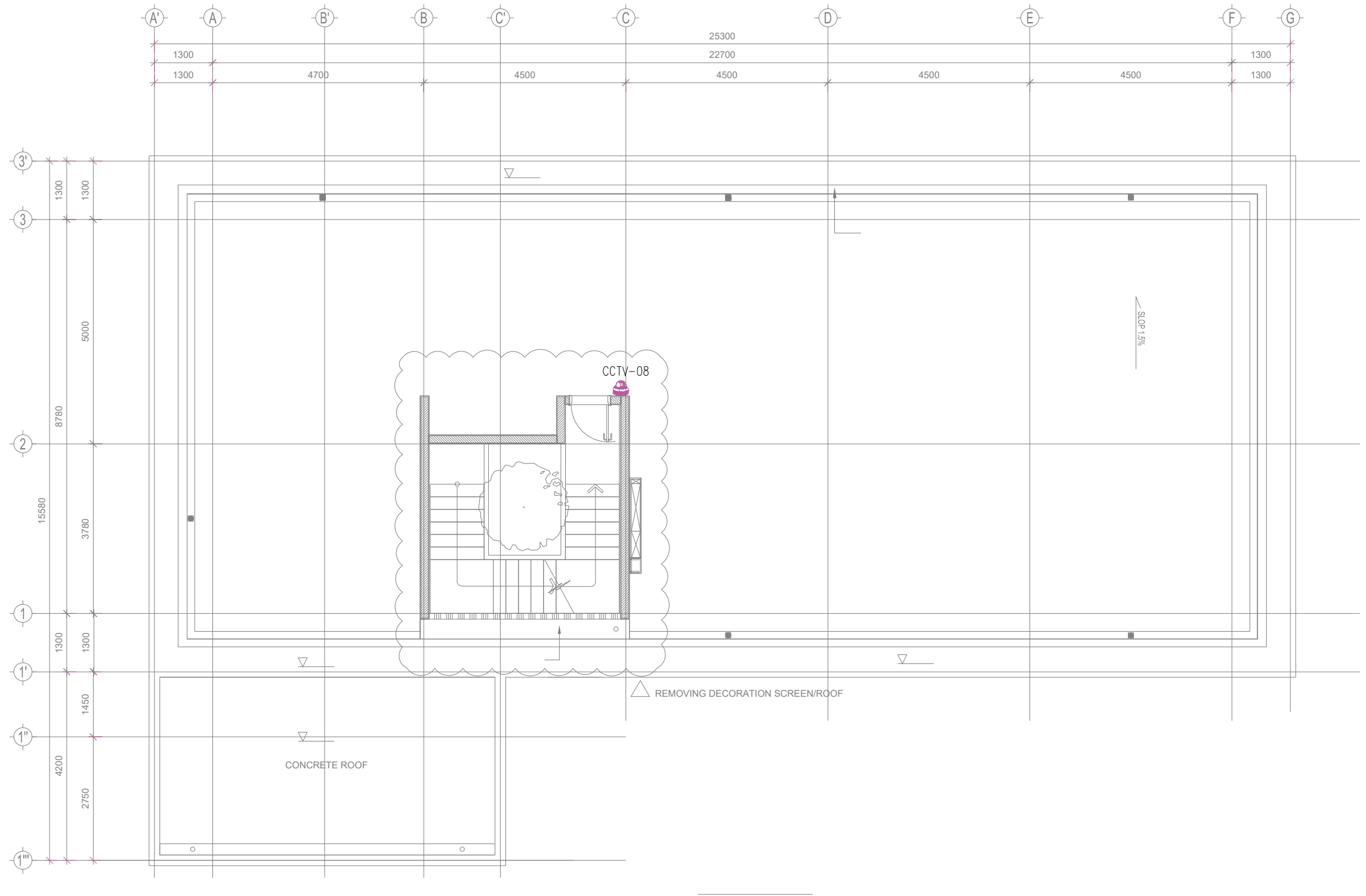
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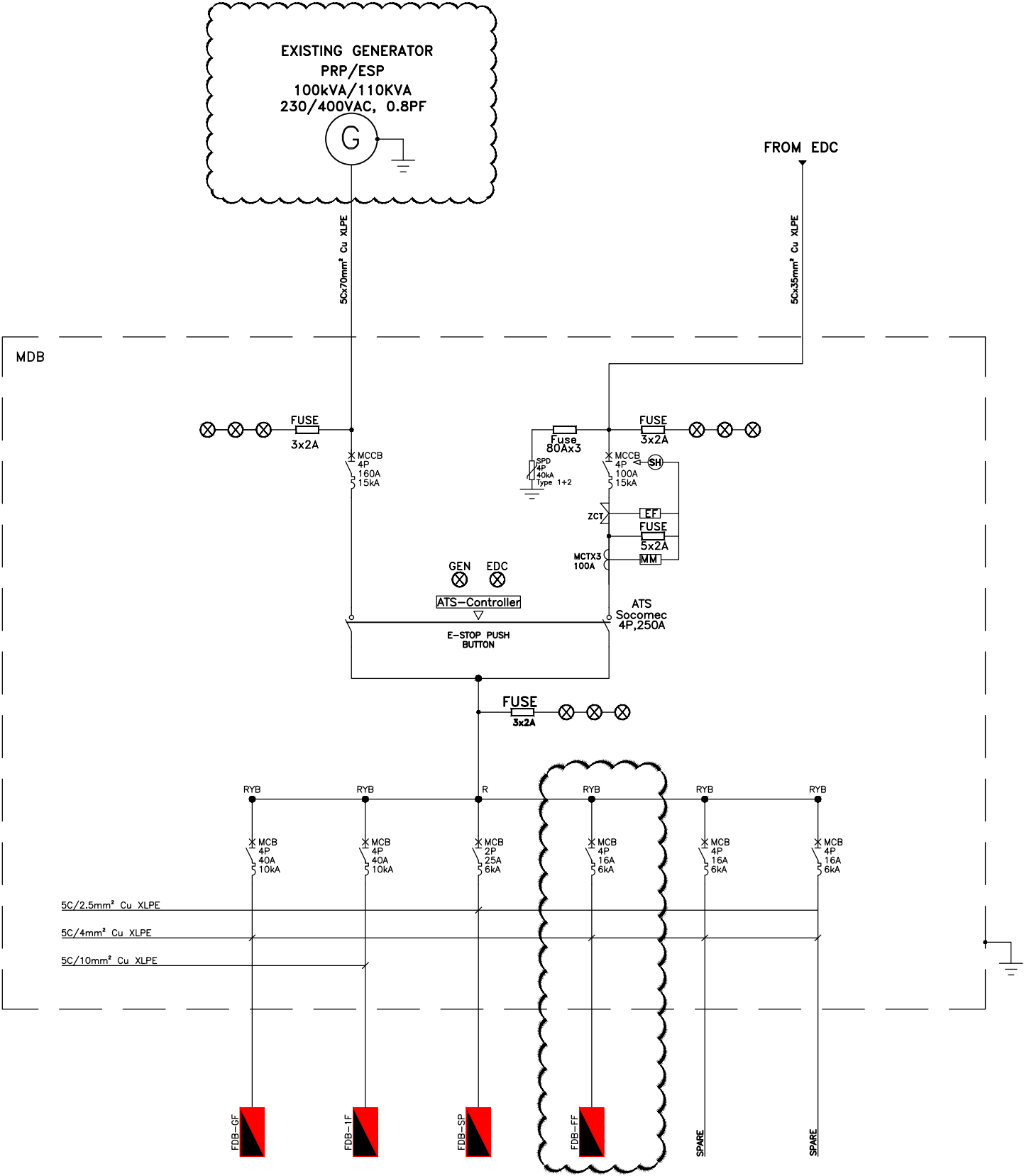
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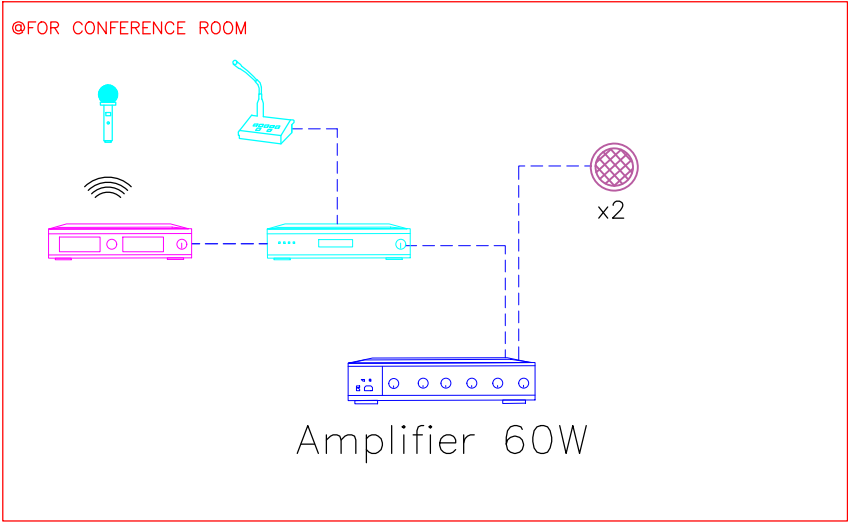
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21628-00-TN-DT-TV-5601 Rev.A																	
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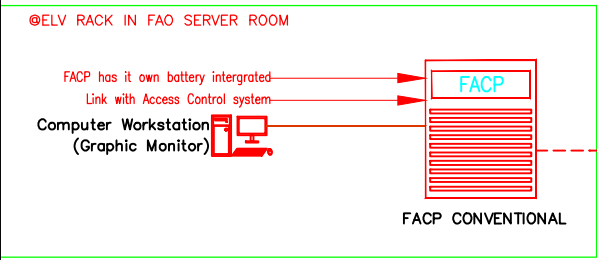
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21628-00-TN-DT-TV-5602 Rev.B																																												
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Project Name Line 1 Project Name Line 2 Location					Client Name Line 1 Client Name Line 2 Insert Logo Bitmap					Donor Name Line 1 Donor Name Line 2 Donor Name Line 3 Insert Logo Bitmap					UNOPS ,Hub - Office Address Line 1, Address Line 2, Address Line 3, City, Country 					GK Engineering St.261, Sangkat Boeung Salang Phnom Penh, CAMBODIA www.gkengineering.pro 					A					04/07/2019					Second Issue					GK				
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All information in this document is the property of UNOPS and can't be copied anywhere but in this project without prior written consent of UNOPS.																																												
Drawn:					Check:					Appr.:					Rev.:					Size:					Scale:					Issue Date:														
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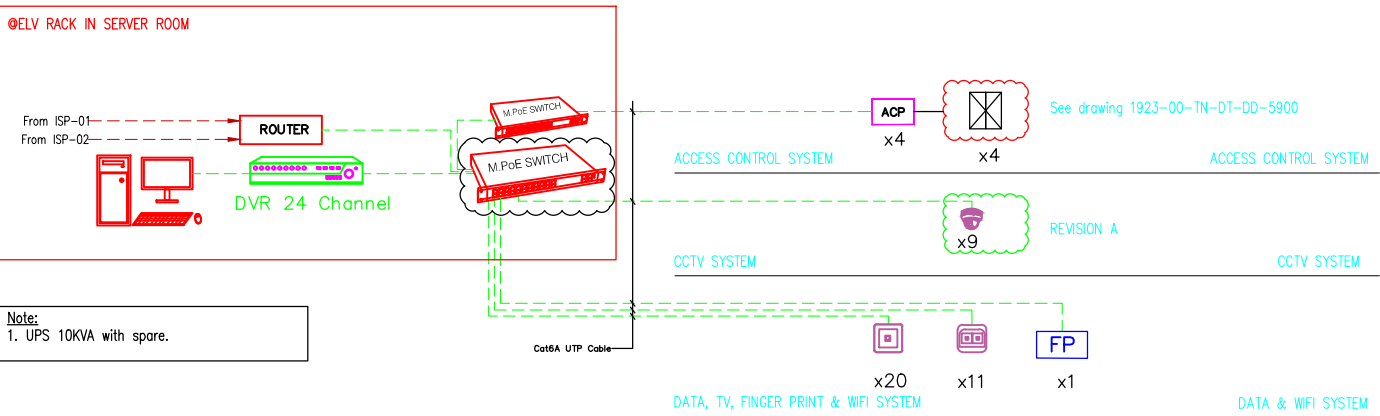
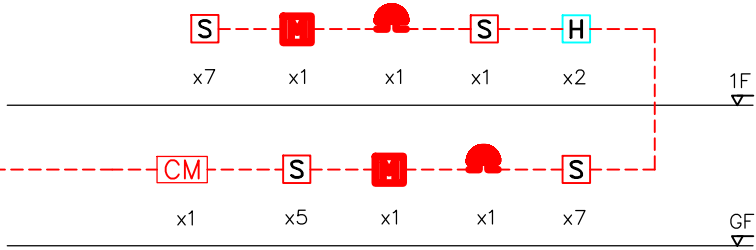
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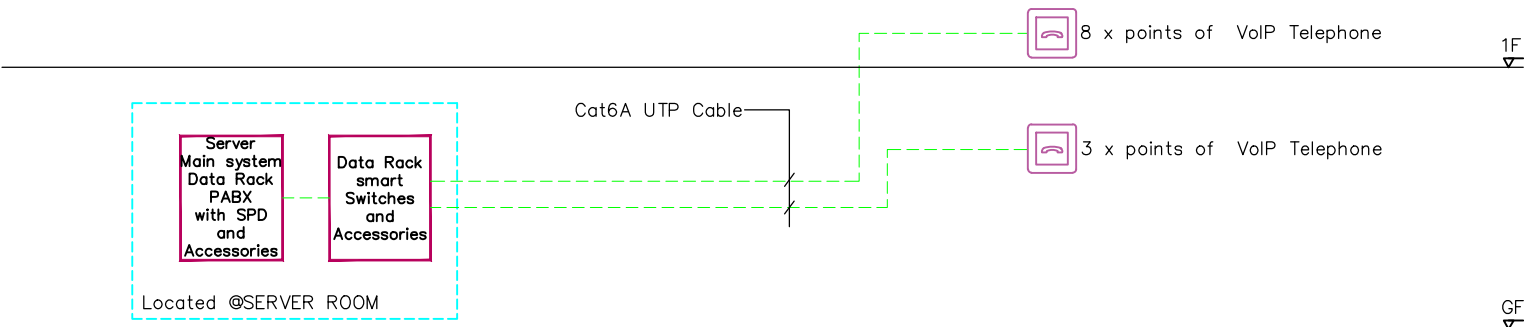
SCHEMATIC OF PUBLIC ACCESS SYSTEM



SCHEMATIC OF FIRE ALARM SYSTEM

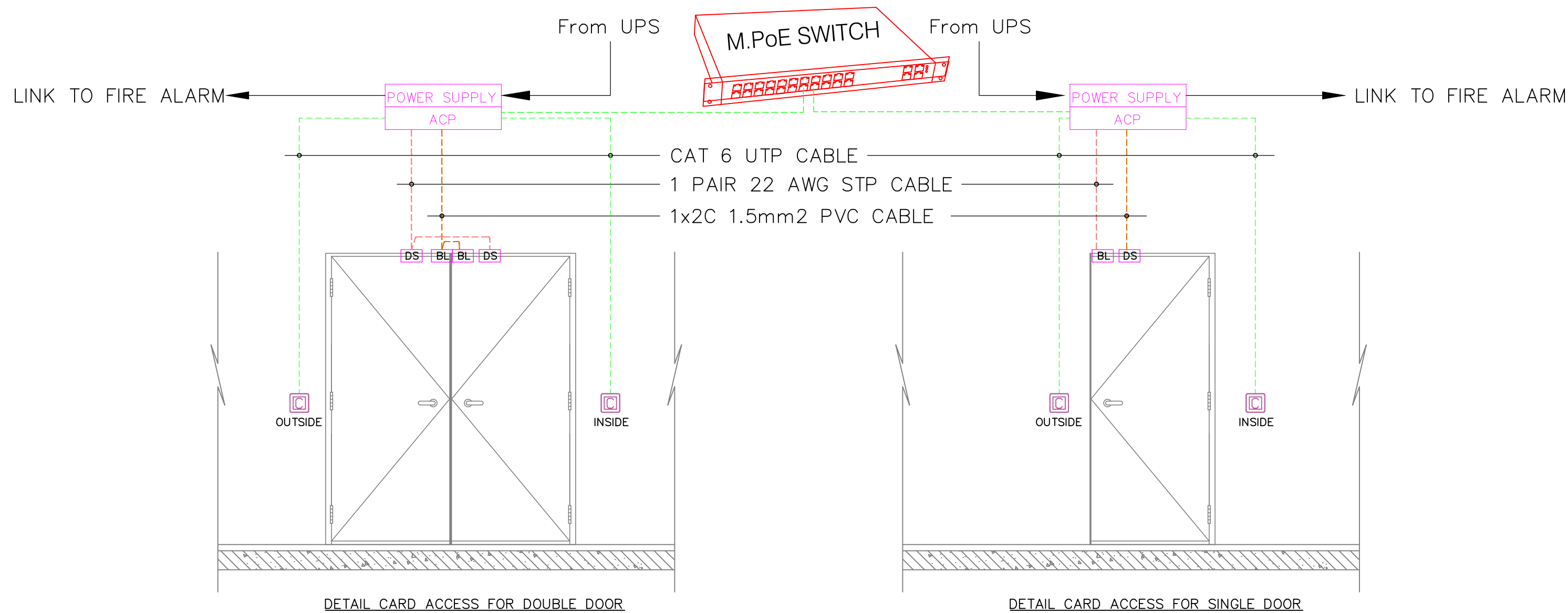


SCHEMATIC OF ACCESS CONTROL, CCTV,
DATA & WIFI SYSTEM



TELEPHONE SCHEMATIC DIAGRAM

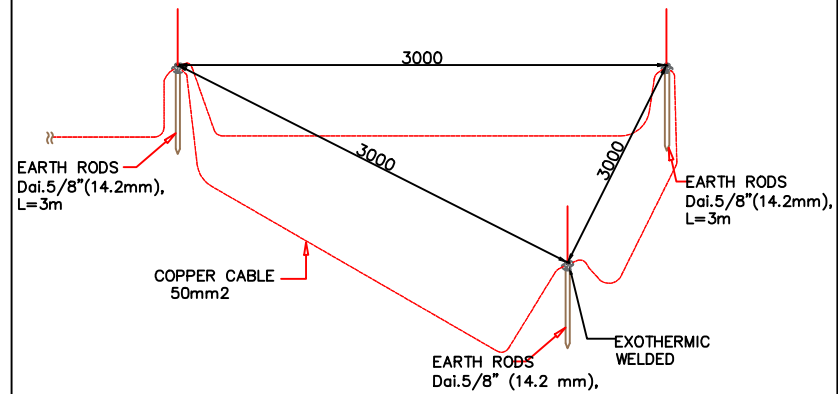
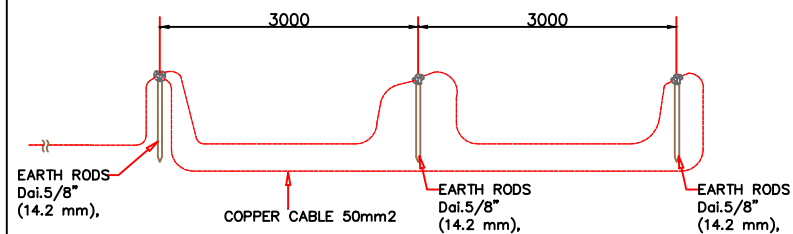
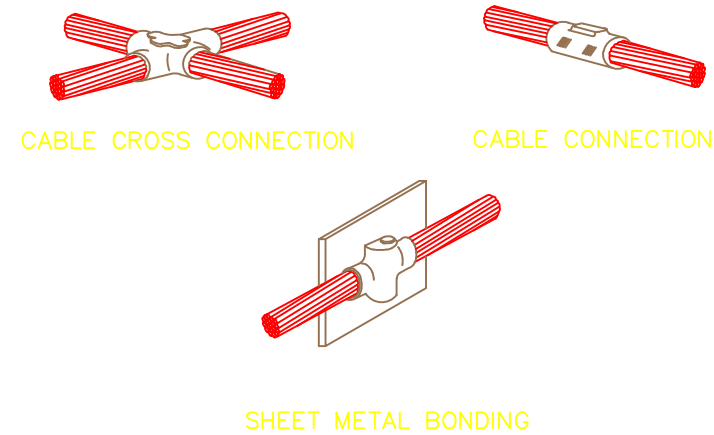
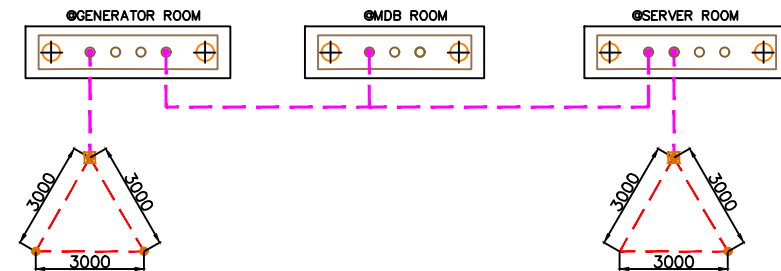
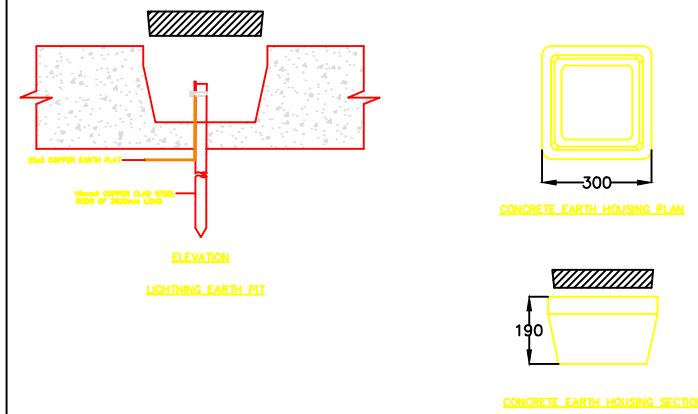
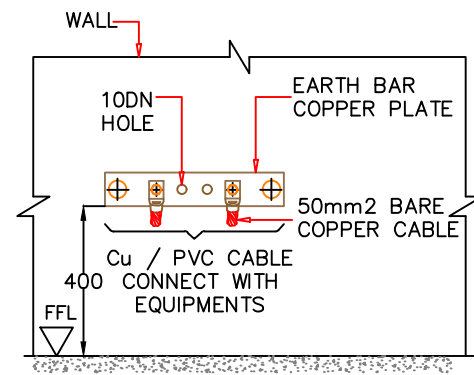
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Project Name Line 2		Client Name Line 2		Donor Name Line 2		Address Line 1,		ST261, Sangkat Boeung Salang		Rev. Date Description Approved				
Location		Insert Logo Bitmap		Insert Logo Bitmap		Address Line 2,		Phnom Penh, CAMBODIA		GK				
				Donor Name Line 3		Address Line 3,		www.gkengineering.pro		All information in this document is the property of UNOPS and can't be copied anywhere but in this project without prior written consent of UNOPS.				
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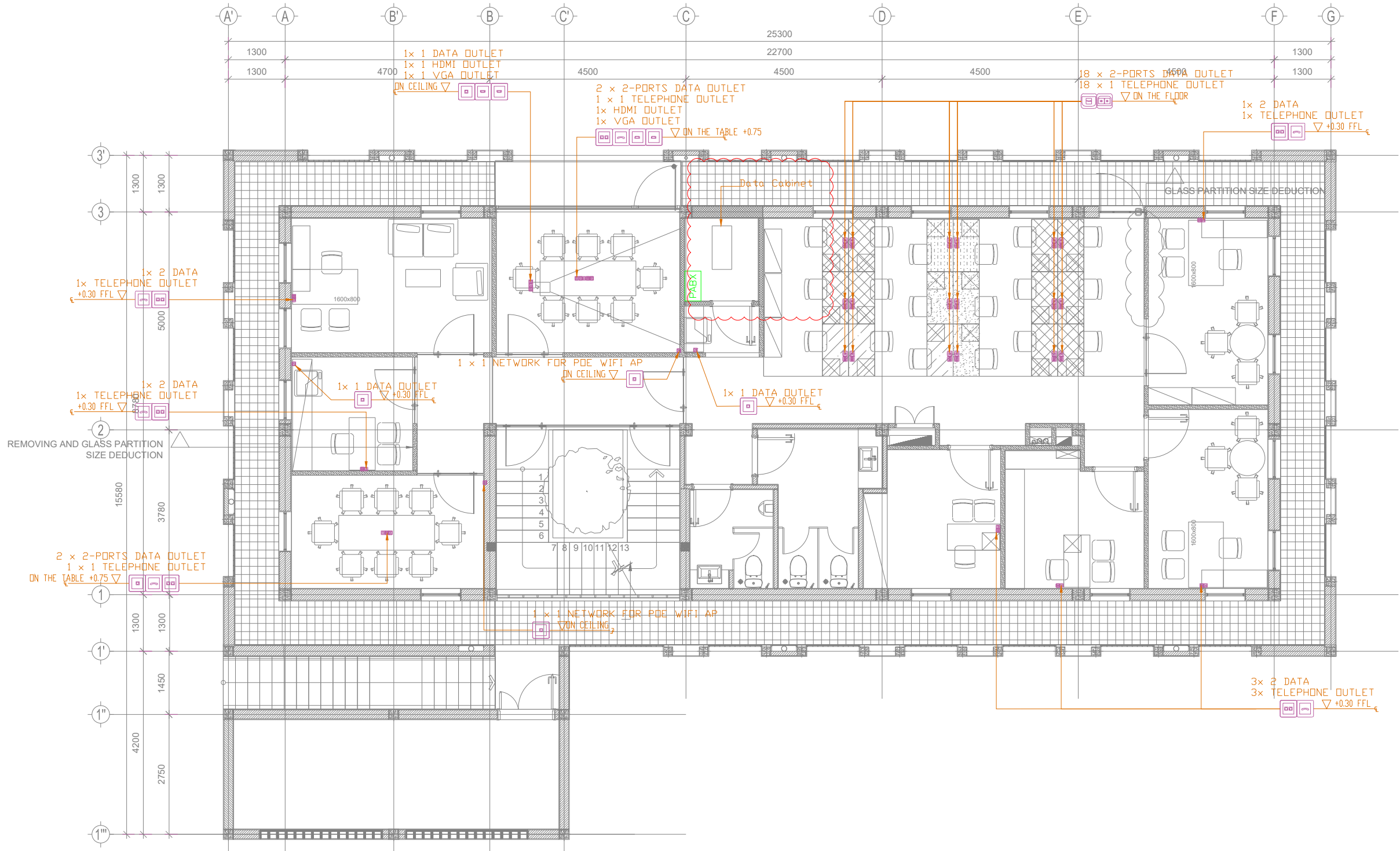
DETAIL CARD ACCESS FOR DOUBLE DOOR

DETAIL CARD ACCESS FOR SINGLE DOOR

General Legend:					Drawing Notes:					Drawing Title:																					
Drawing No.:										Electrical DETAILS CARD ACCESS FOR DOUBLE DOOR																					
21628-00-TN-DT-DD-5900 Rev.A																															
Project Name:		Client:		Supported & Funded By:		Implementation:		Design:		A		03/07/2020		Second Issue		GK		Project No.:		SUB No.:		Stage:		Discipline:		Subject:		Seq No.:			
Project Name Line 1		Client Name Line 1		Donor Name Line 1		UNOPS ,Hub - Office		GK Engineering		0		20/06/2019		First Issue		GK		21628		00		TN		DT		DD		5900			
Project Name Line 2		Client Name Line 2		Donor Name Line 2		Address Line 1, Address Line 2, Address Line 3, City, Country		ST261, Sangkat Boeung Salang Phnom Penh, CAMBODIA		Rev.		Date		Description		Approved		Drawn:		Check:		Appr.:		Rev.:		Size:		Scale:		Issue Date:	
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General Legend:					Drawing Notes:					Drawing Title:																					
Drawing No.:		21628-00-TN-DT-DD-5901 Rev.B								Electrical DETAILS EARTHING SYSTEM																					
Project Name:		Client:		Supported & Funded By:		Implementation:		Design:			B 03/07/2020 Third Issue		GK			Project No.:		SUB No.:		Stage:		Discipline:		Subject:		Seq. No.:					
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General Legend:

Drawing No.:

21628-00-TN-DT-DT-7001 Rev.B

Project Name:

Project Name Line 1
Project Name Line 2
Location

Client:

Client Name Line 1
Client Name Line 2
Location

Supported & Funded By:

Donor Name Line 1
Donor Name Line 2
Donor Name Line 3

Implementation:

UNOPS, Hub - Office
Address Line 1,
Address Line 2,
Address Line 3,
City, Country

Design:

GK Engineering
SL261, Sangkat Boeung Salang
Phnom Penh, CAMBODIA
www.gkengineering.pro

Drawing Notes:

B	08/04/2020	Third Issue	GK
A	04/07/2019	Second Issue	GK
O	20/06/2019	First Issue	GK
Rev.	Date	Description	Approved

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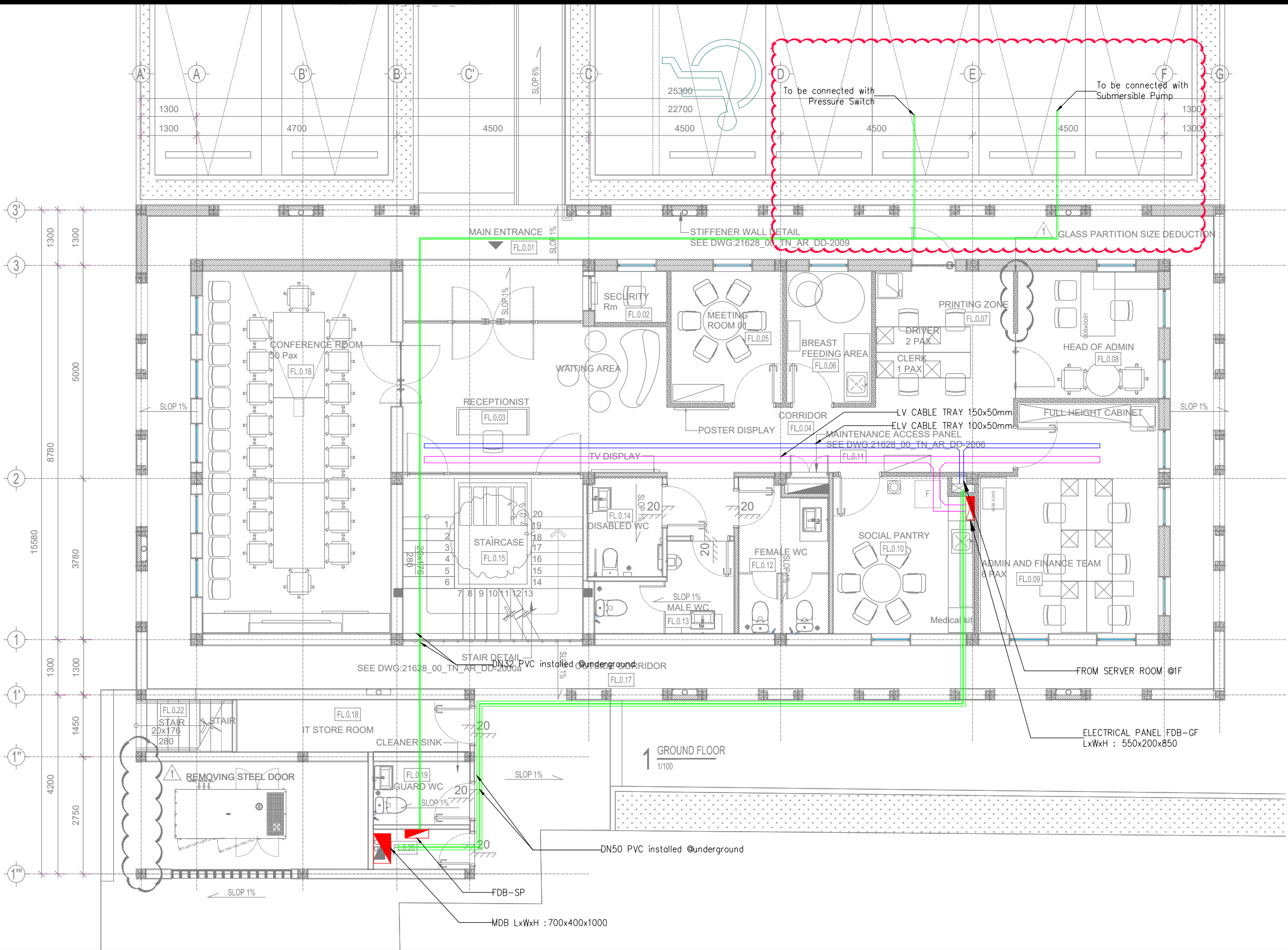
Electrical
1F DATA & TELECOMMUNICATION
LAYOUT

Project No.: SUB No.: Stage: Discipline: Subject: Seq No.:

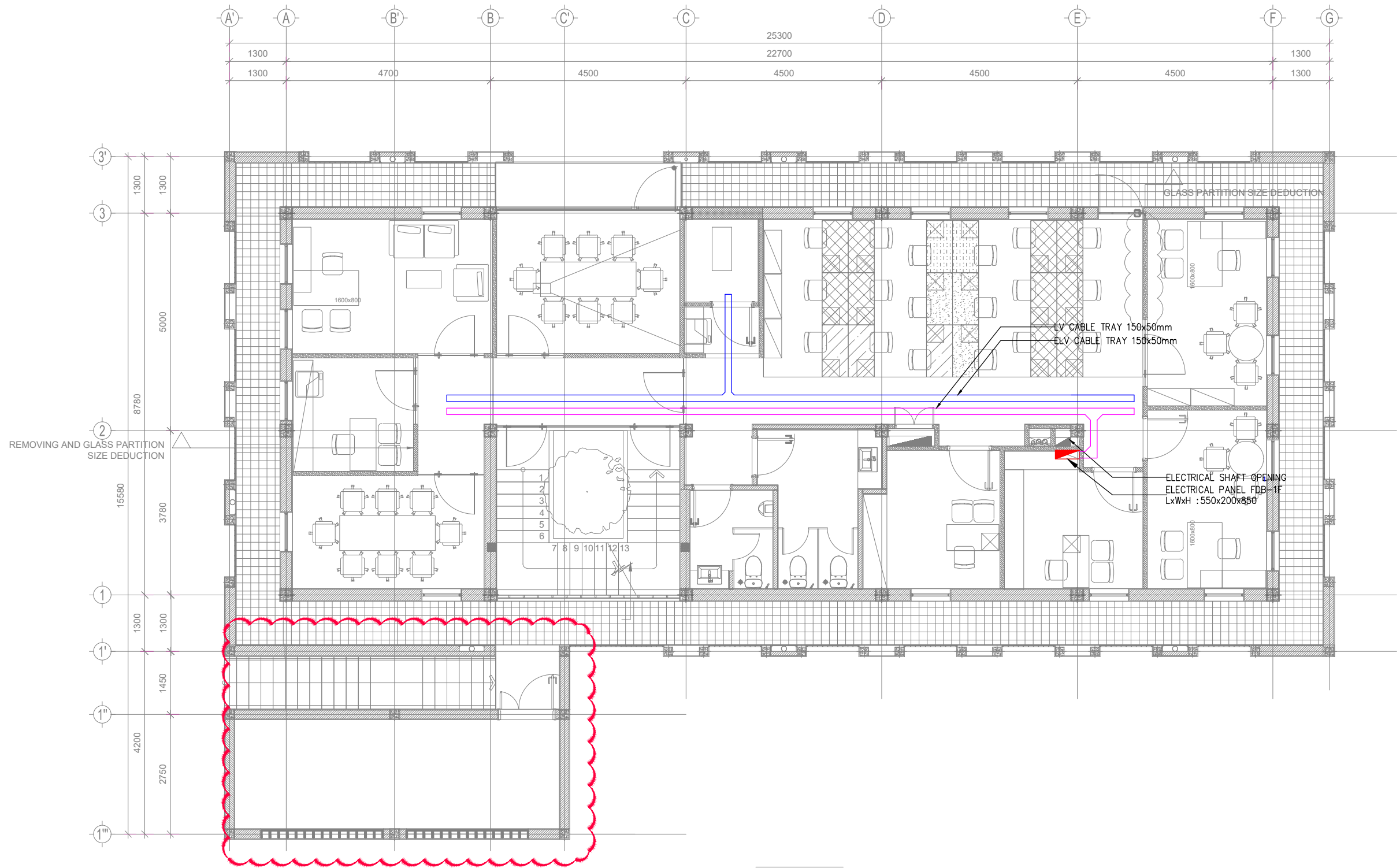
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Drawn: Check: Appr.: Rev.: Size: Scale: Issue Date:

GK GK GK B A3 1:100@A3 08/04/2020



General Legend:		Drawing Notes:				Drawing Title:					
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21628-00-TN-EL-MN-8000 Rev.B						GF MAIN NETWORK LAYOUT					
Project Name:	Client:	Supported & Funded By:	Implementation:	Design:		Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
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				www.gkengineering.pro		GK	GK	GK	B	A3	1:100@A3
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					A 16/10/2019 Second Issue						
					0 20/06/2019 First Issue						
					Rev. Date Description						
					Approved						
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General Legend:					Drawing Notes:					Drawing Title:																					
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21628-00-TN-EL-MN-8001 Rev.A																															
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