

LEGEND

- E-00* *Legend & Notes*
- E-01* *Lighting Plan*
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- E-03* *Data Plan*
- E-04* *Fire Alarm Plan*
- E-05* *Access control Systems*
- E-06* *Electrical Panels*
- E-07* *AC Power Plan*

R	REV. BY	DATE	DESCRIPTION

OWNER:—

Belgian development agency
Consulate General of Belgium

DESIGNER



RAMALLAH—PALESTINE
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EMAIL: APTEngineers22@gmail.com

PROJECT:

**Design of Electromechanical
Works for Enabel's 6th floor
Office in Ramallah**

DRAWING TITLE:

Drawings Name

DESIGN: F.I

DRAWN: F.I

APPROVED :

SHEET NO: IBSAIS

DATE:

JULY.2023

SCALE:

N.T.S

E-00

LEGEND

GRAPHIC SYMBOLS		GENERAL NOTES	
	DISTRIBUTION BOARD	A	THE FOLLOWING NOTES SHALL APPLY TO ALL ELECTRICAL DRAWINGS UNLESS OTHERWISE INDICATED OR NOTED.
	ONE , TWO , & THREE WAY, WATER PROOF SWITCH	B	DO NOT SCALE FROM THE LAYOUT DRG. WORK ACCORDING TO ARCHITECTURAL AND ELECTRICAL DETAILS UNLESS OTHERWISE INDICATED.
	NORMAL POWER OUTLET		THE ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE REST OF
	SINGLE UPS POWER OUTLET	C	THE DRAWINGS PERTAINING TO ARCHITECTURE, STRUCTURE, AIRCONDITIONING, PLUMBING, DECORATION AND THE SPECIFICATIONS AS APPLICABLE.
	DOUBLE UPS POWER OUTLET	D	ALL CONDUITS SHOWN ABOVE FALSE CEILING SHALL BE CONCEALED WHEN RUN IN WALLS BELOW FALSE CEILING.
	FOURTH UPS POWER OUTLET	E	EARTH CONTINUITY (EQUIPMENT GROUND) CONDUCTORS ARE NEITHER INDICATED ON CONDUITS RUNS,THEY SHALL BE IN ACCORDANCE WITH THE IEE REGULATIONS AND AS INDICATED IN SCHEMATIC DIAGRAMS.
	DOUBLE NORMAL POWER OUTLET	F	LIGHTING POINTS SHALL BE EXPOSED OR CONCEALED IN CONFORMANCE TO ASSOCIATED CONDUITS.
	NORMAL POWER OUTLET WITH IP55 MODULAR SUPPORT FRAME	G	SHAPE AND DIMENSION OF SYMBOLISED FLOURESCENT OR INCANDESCENT FIXTURES ARE NOT NECESSARILY REPRESENT SHAPE AND DIMENSIONS OF ACTUAL FIXTURES INTENDED FOR THIS PURPOSE. (REFER TO LIGHTING FIXTURES SCHEDULE)
	RJ45 CAT 7A TELEPHONE SOCKET	H	LIGHTING SWITCHES NEAR DOORS SHALL BE INSTALLED AT 15CMS.FROM ARCHITRAVE (MEASURED FROM THE EDGE OF THE SWITCH).
	RJ45 CAT 7 A DATA SOCKET	I	LIGHTING FIXTURES MOUNTED IN FALSE CEILING SHALL BE FED THROUGH HEAT RESISTANT WIRES IN METALIC FLEXIBLE CONDUITS CONNECTED TO THE LIGHTING OUTLET BOX.
	ADDRESSABLE PHOTO SMOKE DETECTOR	J	OUTLET BOX FOR FALSE CEILING MOUNTED LIGHTING FIXTURE SHALL BE POSITIONED SUCH THAT IT WILL NOT BE OBSTRUCTED BY A/C DUCTS, PIPES, ETC. FOR THIS PURPOSE CONTRACTOR SHALL CO-ORDINATE WITH THE A/C AND PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
	ADDRESSABLE HEAT DETECTOR	K	THE MINIMUM CONDUIT SIZE USED SHALL BE ϕ 3/4" min.
	MANUAL CALL POINT BREAK GLASS	L	FOR GROUP SWITCHING AND WHERE SWITCH BOXES CONTAIN MORE THAN ONE PHASE, APPROVED BARRIER SWITCH BOXES SHALL BE USED WITH A LABEL SHOWING THAT (380V) EXISTS IN THAT BOX.
	INTERNAL HORN AND STROBE	M	CONTRACTOR SHALL CO-ORDINATE WITH LOCAL POWER AUTHORITIES AND GET THEIR APPROVAL FOR ELECTRICAL WORKS. REVISIONS (IF NEEDED) SHALL BE WITHOUT EXTRA COST.
	INTERNAL HORN AND STROBE WITH FLASHER	N	CONTRACTOR SHALL BE RESPONSIBLE TO EXECUTE & COMMISSION THE ELECTRICAL WORKS COMPLYING WITH THE LOCAL POWER AUTHORITES REGULATIONS.
	MANUAL CALL POINT BREAK GLASS WITH INTERNAL HORN		
	MANUAL CALL POINT BREAK GLASS WITH INTERNAL HORN & FLASHER		
	CEILING MOUNTED 20 WATT LOUD SPEAKER		
	INTERNAL CAMERA		
	EXTERNAL CAMERA		
	Thermostat (With On-Off Switch)		
	MODULAR FLUSH FLOOR SERVICE OUTLET BOX 300x200x80mm, 3 COMPARTMENT SERVICE BOX EQUIPPED WITH:- - 13A DOUBLE SOCKET OUTLET FOR UPS - 13A DOUBLE SOCKET OUTLET FOR NORMAL POWER - DOUBLE RJ45 DATA SOCKET OUTLET - DOUBLE RJ45 TELEPHONE SOCKET OUTLET COVERS, FIXING DEVICES... ETC. INCLUDED		
	Fire Alarm Lamp		
	AC Outlet at High Level		
	Data Cabinet Box		
	30 cm Perforated Cable Tray for Power Lines		
	30 cm Mesh Cable Tray for Low Current Lines		
	Fireman Switch		
	IP65 Outdoor Socket For AC Units		
	KNX presence sensor		
	Fireman Telephone		
	WALL MOUNTED 20 WATT LOUD SPEAKER		
	MAGNETIC ALARM CONTACT		

RECOMMENDED HEIGHTS OF WALL MOUNTED FIXTURES *

REF.	FIXTURES	HEIGHT(mm)	REMARKS
1	LIGHTING SWITCHES	1300	ABOVE F.F.L.
2	NORMAL SOCKET OUTLETS	400	ABOVE F.F.L.
3	A.C. SOCKET OUTLETS	600	BELOW CEILING SLAB
4	DATA AND COMMUNICATION OUTLETS	400	ABOVE F.F.L.
5	INDUSTRIAL SOCKET OUTLETS	300	ABOVE WORKING LEVEL
6	SOCKETS IN MECHANICAL ROOMS	1400	ABOVE F.F.L.
7	HAND DRYER	1400	ABOVE F.F.L.
8	FIRE ALARM BREAK GLASS UNIT	1500	ABOVE F.F.L.
9	TOP OF DISTRIBUTION BOARDS	2000	ABOVE F.F.L.
10	TERMINAL BOXES (LOW CURRENT SYSTEMS WITHIN ELECTRICAL ROOMS OR CLOSETS)	1200-1800	ABOVE F.F.L.

* OTHERS TO BE COORDINATED WITH THE ENGINEER

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ATERA -MAIN ST.
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PROJECT:

**Design of Electromechanical
Works for Enabel's 6th floor
Office in Ramallah**

DRAWING TITLE:

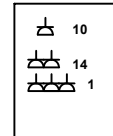
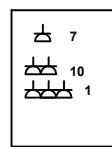
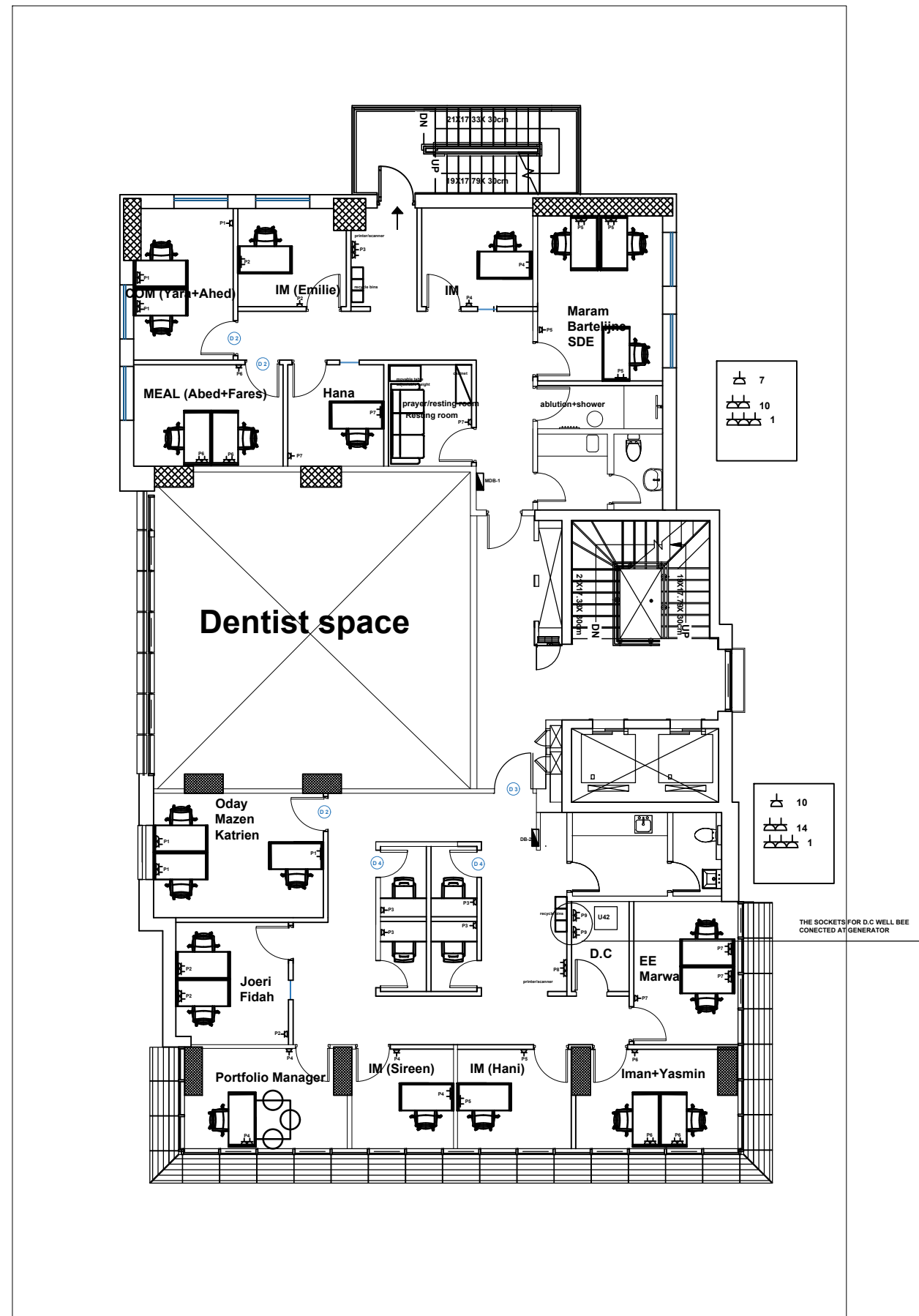
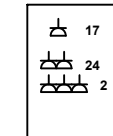
Legend & Notes

DESIGN: F.I	DATE:
DRAWN: F.I	JULY.2023
CHECKED:K.IBSAIS	
APPROVED :	SCALE:
SHEET NO:	N.T.S

E-00

Note:

- 1- Wiring shall be carried out using N2XY 3x2.5 mm² cable unless otherwise indicated



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PROJECT:
Design of Electromechanical Works for Enabel's 6th floor Office in Ramallah

DRAWING TITLE:
Power Plan

DESIGN: F.I	DATE: JULY.2023
DRAWN: F.I	
CHECKED: K.IBSAIS	
APPROVED :	SCALE: N.T.S

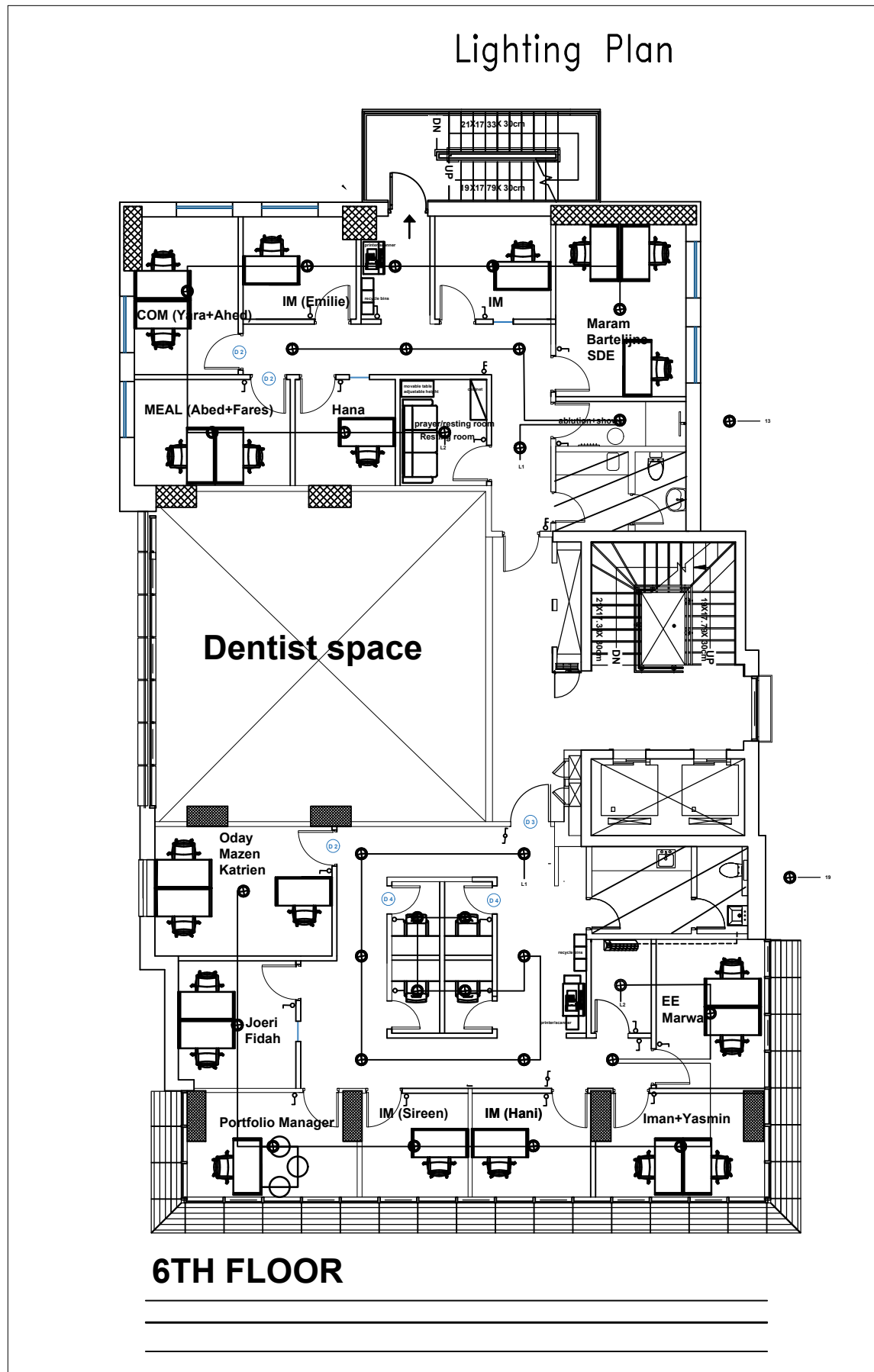
SHEET NO: **E-02**

Note:

Wiring shall be carried out using
N2XY 3x1.5 mm² cable unless
otherwise indicated

32 ● ○ Surface mounted luminaire diffused distribution. Die cast aluminum alloy. Powder coat finish in RAL 9004, RAL 9007, RAL 9016 or classic IP65 T.C.L. 18W Electronic ballasts 220

Lighting Plan



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PROJECT:
**Design of Electromechanical
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Office in Ramallah**

DRAWING TITLE:
Lighting Plan

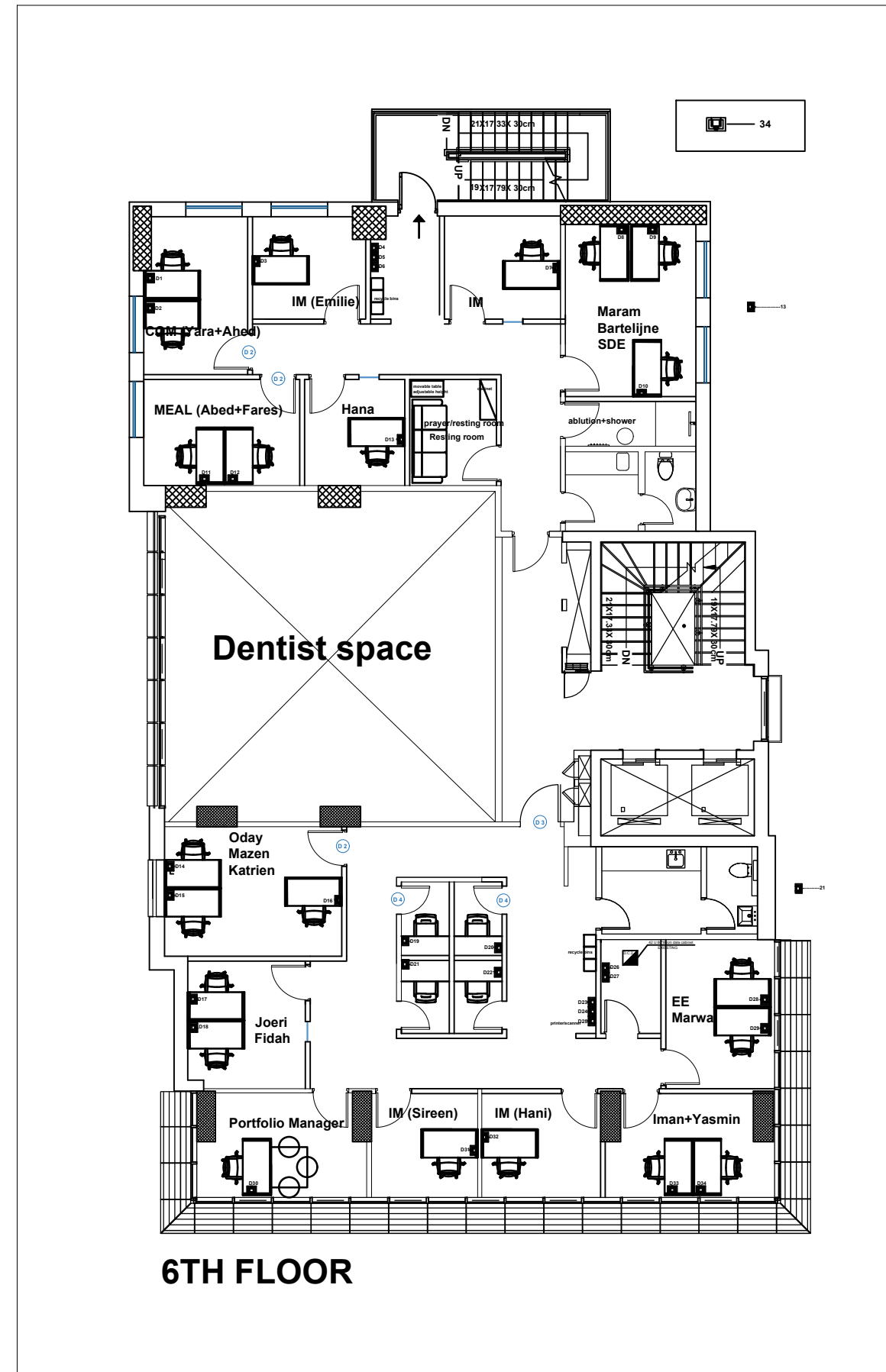
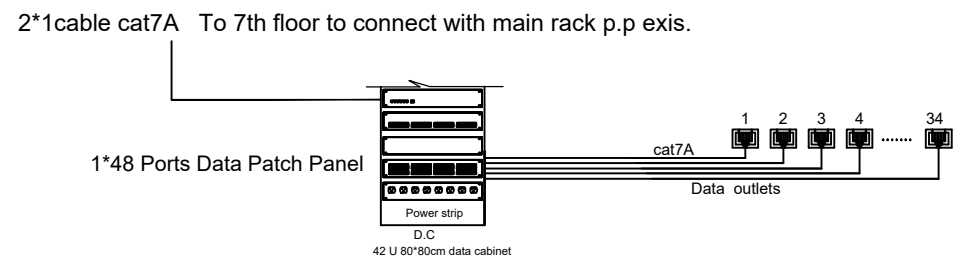
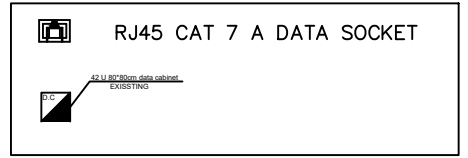
DESIGN: F.I	DATE: JULY.2023
DRAWN: F.I	
CHECKED: K.IBSAIS	
APPROVED :	SCALE: N.T.S

SHEET NO:
E-01

Notes:

- 1- S/FTP cat7A shall be installed for each Data connected back to D.C.MAIN EXISSTINGIN THE 7th FLOOR
- 2- D: Data Outlet

DATA Plan



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PROJECT:
Design of Electromechanical Works for Enabel's 6th floor Office in Ramallah

DRAWING TITLE:
DATA Plan

DESIGN: F.I	DATE: JULY.2023
DRAWN: F.I	
CHECKED:K.IBSAIS	
APPROVED :	SCALE: N.T.S

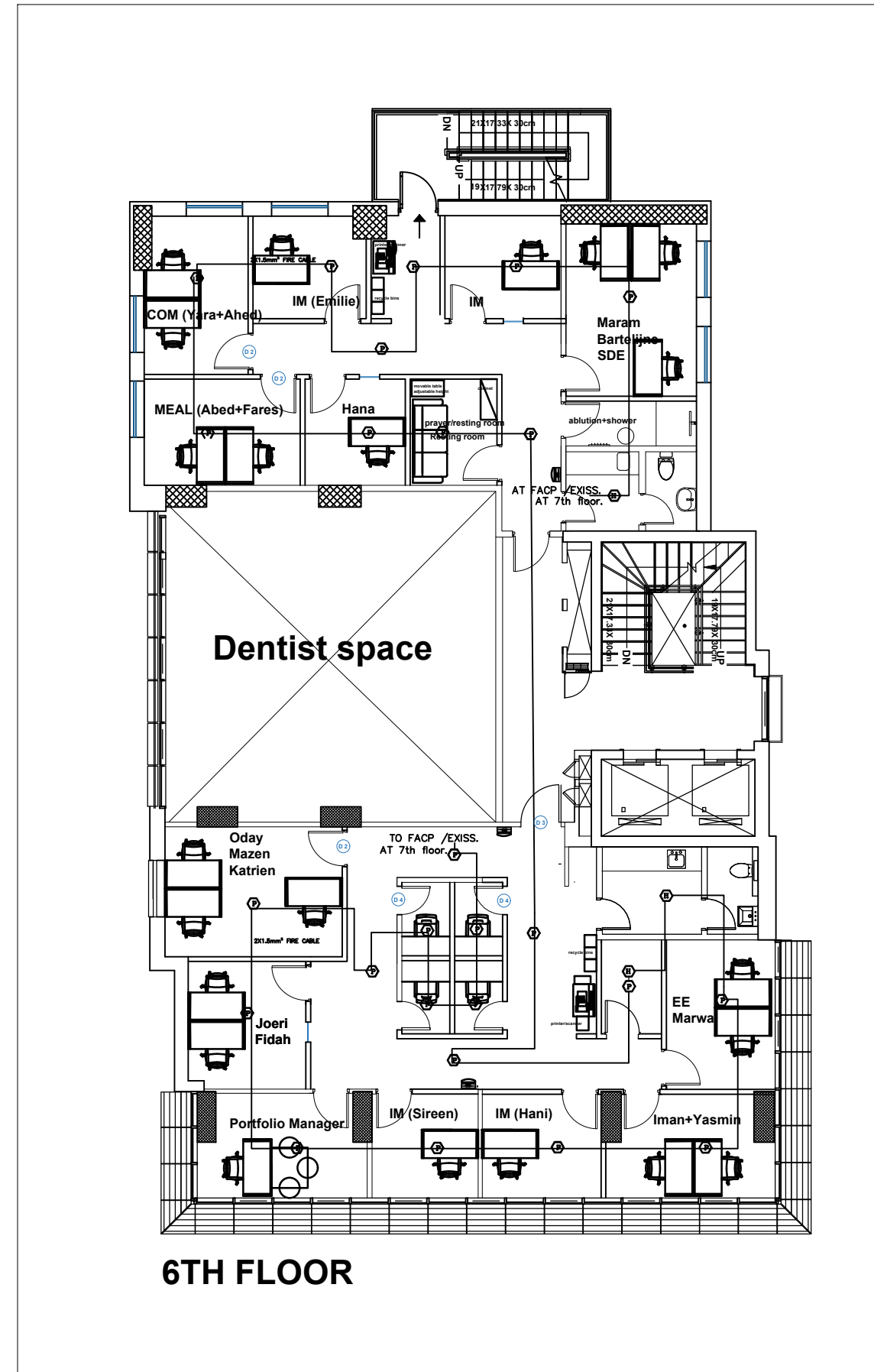
SHEET NO:
E-03

P — 26

H — 3

MANUAL CALL POINT BREAK GLASS WITH INTERNAL HORN — 2

FIRE ALARM




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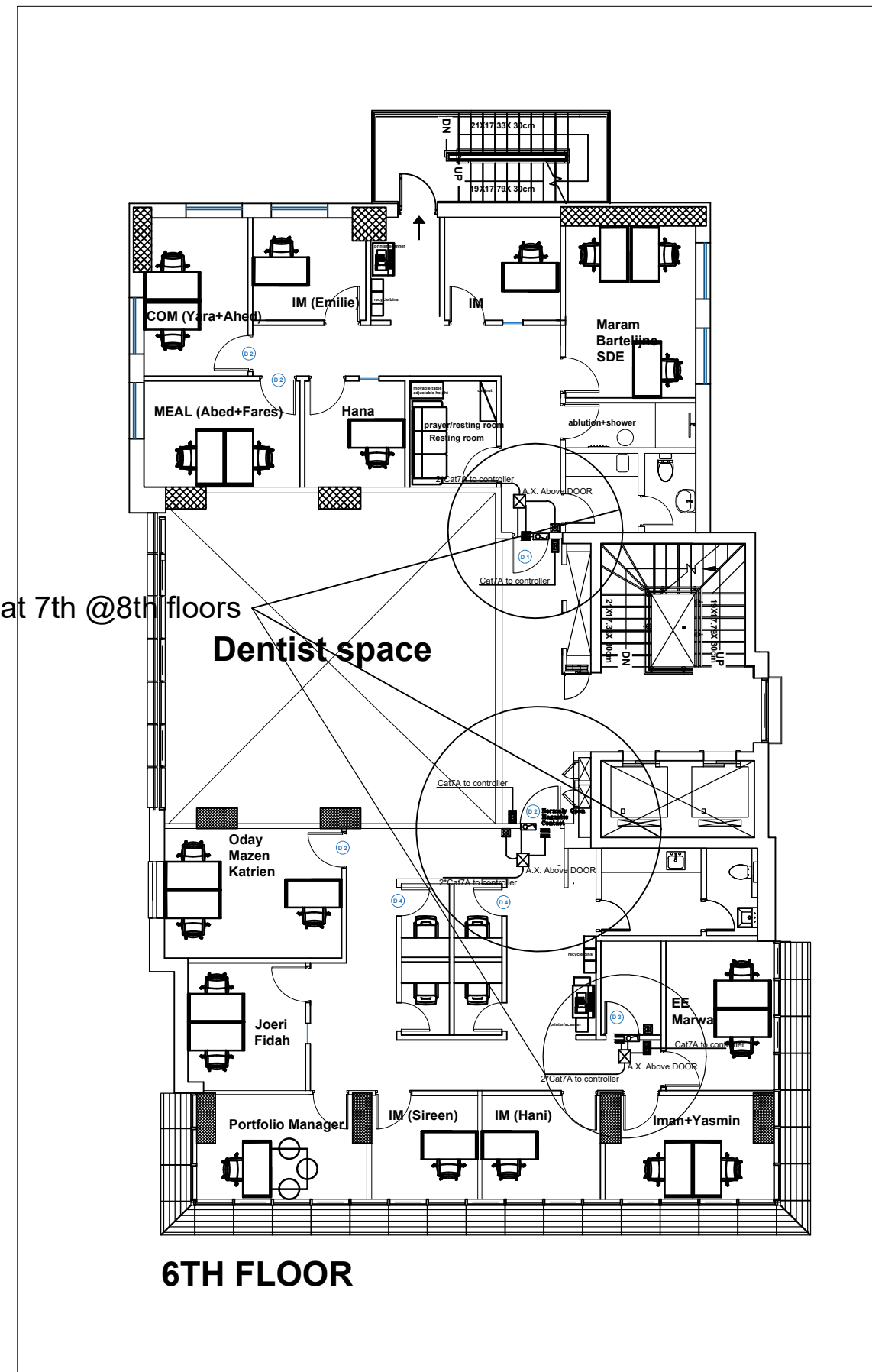
PROJECT:
Design of Electromechanical Works for Enabel's 6th floor Office in Ramallah

DRAWING TITLE:
FIRE ALARM

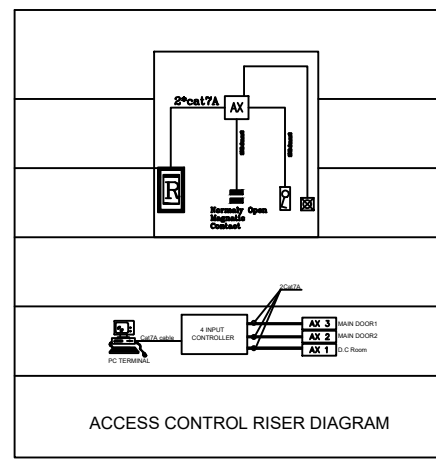
DESIGN: F.I	DATE:
DRAWN: F.I	JULY.2023
CHECKED:K.IBSAIS	
APPROVED :	SCALE:
SHEET NO:	N.T.S

E-04

Access control Systems



only to be integrated with the existing systems at 7th @8th floors



LEGEND

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OWNER: -

Belgian development agency
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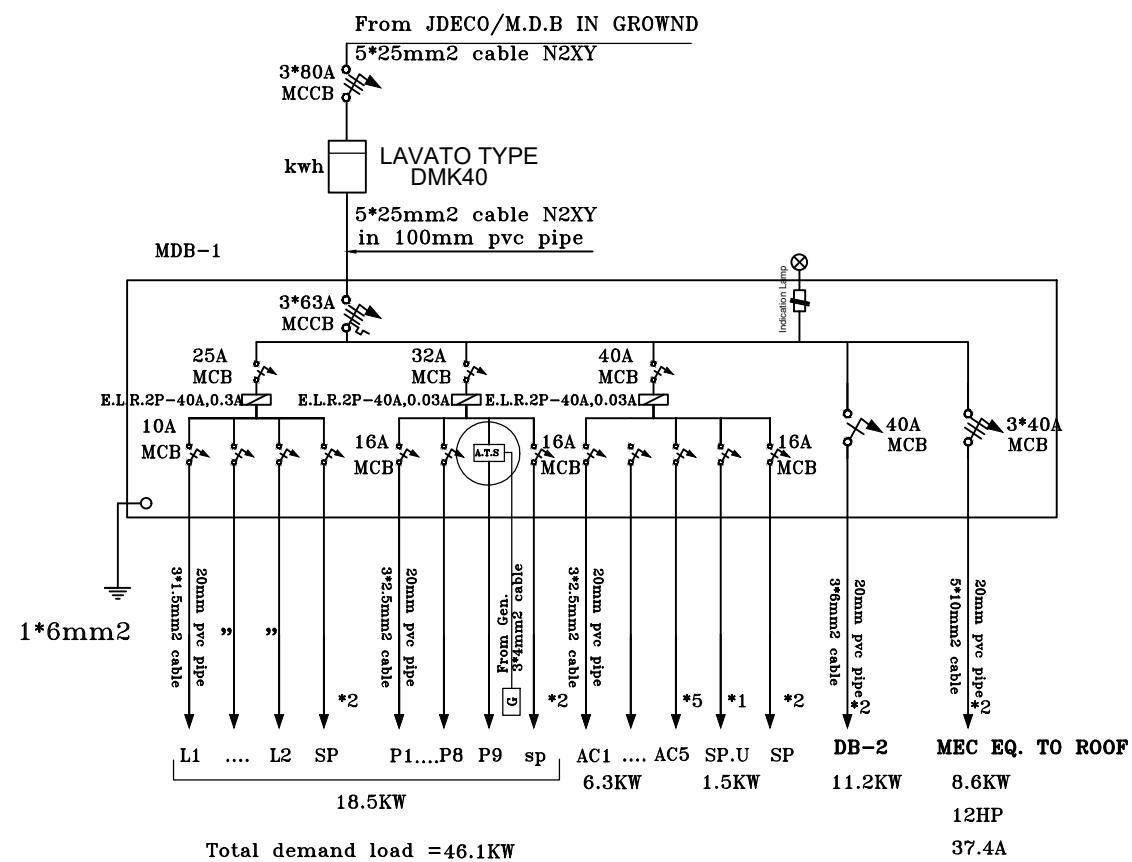
PROJECT:
Design of Electromechanical Works for Enabel's 6th floor Office in Ramallah

DRAWING TITLE:
Access control Systems

DESIGN: F.I	DATE: JULY.2023
DRAWN: F.I	
CHECKED: K.IBSAIS	
APPROVED :	SCALE: N.T.S

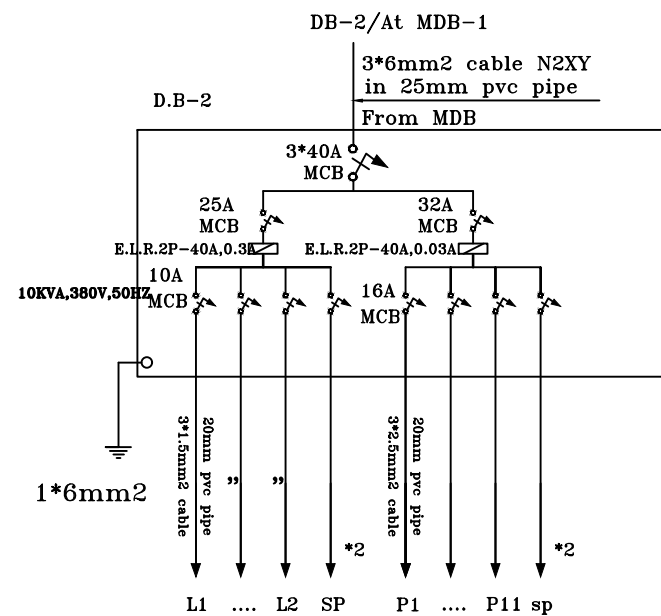
SHEET NO:
E-05

LEGEND



CALCULATION LOODS

Total connected load	46.1KW
Total demand load(0.8)	36.88KW
Total Finalload (A)	66.38 A
MCCB (A)	3*40 A
Cable (mm)	5*16mm2



Total connected load	Lighting 1140W	power 13000W
Total demand load	800W	10400W
Total demand load : 11.2KW		

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OWNER: -

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NEAR HUDA STATION
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PROJECT:

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DRAWING TITLE:


EL.BOARDS

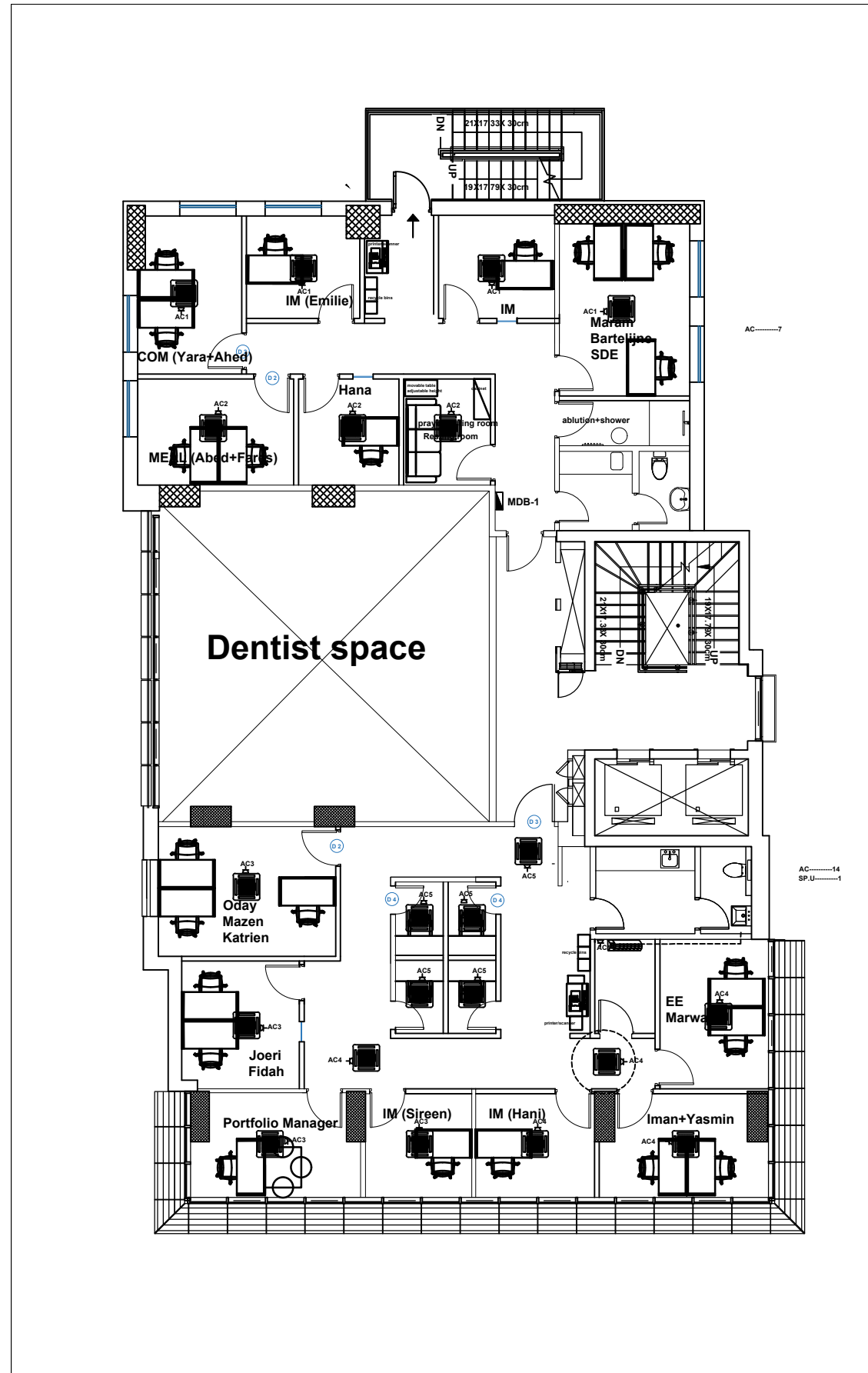
DESIGN: F.I	DATE:
DRAWN: F.I	JULY.2023
CHECKED:K.IBSAIS	
APPROVED :	SCALE:
SHEET NO:	N.T.S

E-06

ALL A/C SOCKETS AT MDB-1

AC-PLAN

AC.....21




R	REV. BY	DATE	DESCRIPTION

OWNER:—

Belgian development agency
 Consulate General of Belgium

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 ATERA —MAIN ST.
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 EMAIL: APTEngineers22@gmail.com

PROJECT:

**Design of Electromechanical
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DRAWING TITLE:

AC POWER

DESIGN: F.I	DATE:
DRAWN: F.I	JULY.2023
CHECKED:K.IBSAIS	
APPROVED :	SCALE:
SHEET NO:	1/100

E-07