



Belgium
partner in development

Rehabilitation and/or creation of STEM Labs in schools in the West Bank

PSE22001-10070

Lot 1: EIGHT STEM LABS IN SOUTHERN GOVERNOATE

Arab Freijat . School

Conslutant

Implemtened By



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Website:	www.arabengineers-Pal.com		



REVISION [01]

Wednesday, December 5, 2025

December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



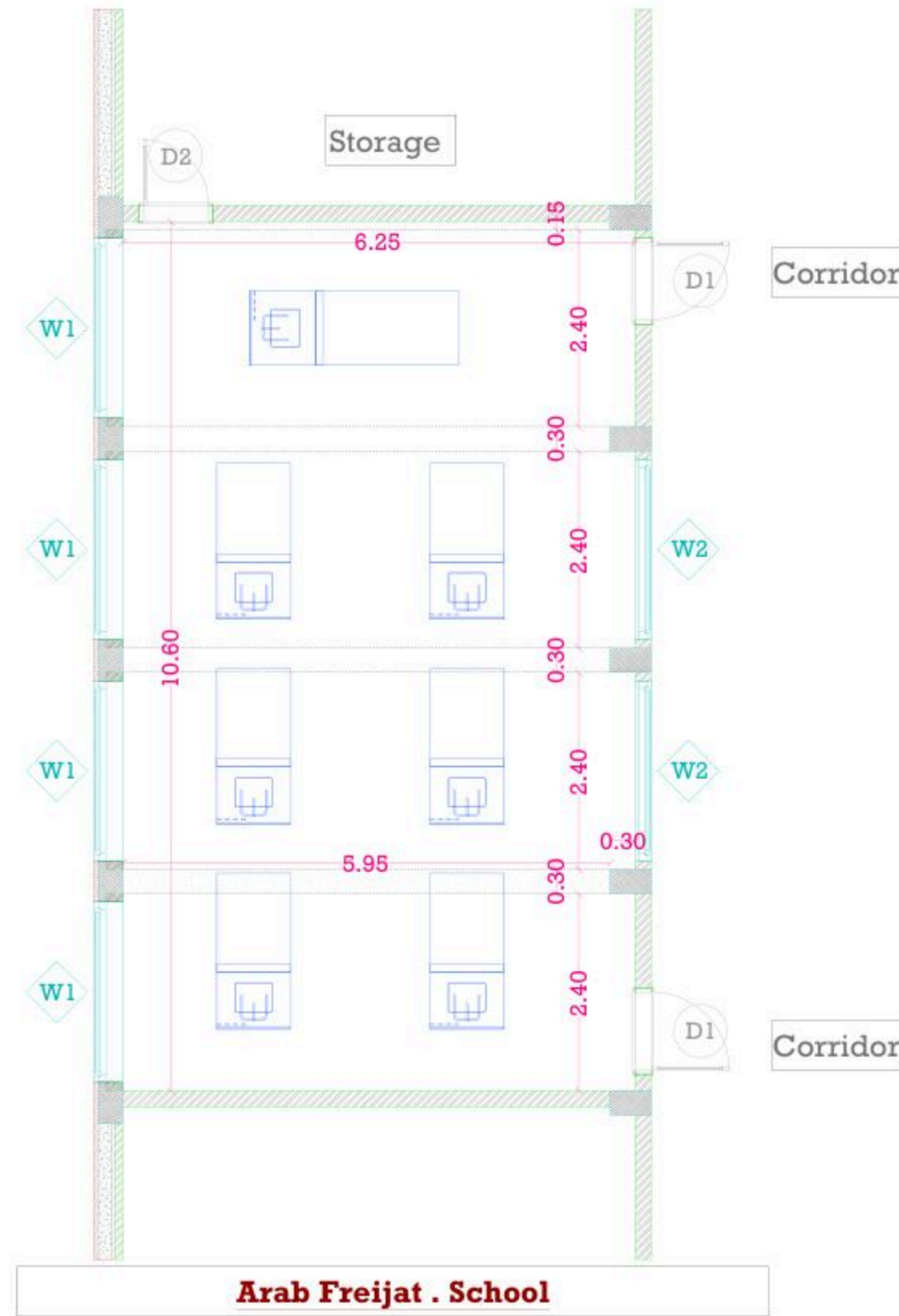
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Web-Site: www.arabengineers-Pal.com

Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A01	Existing Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

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Designer



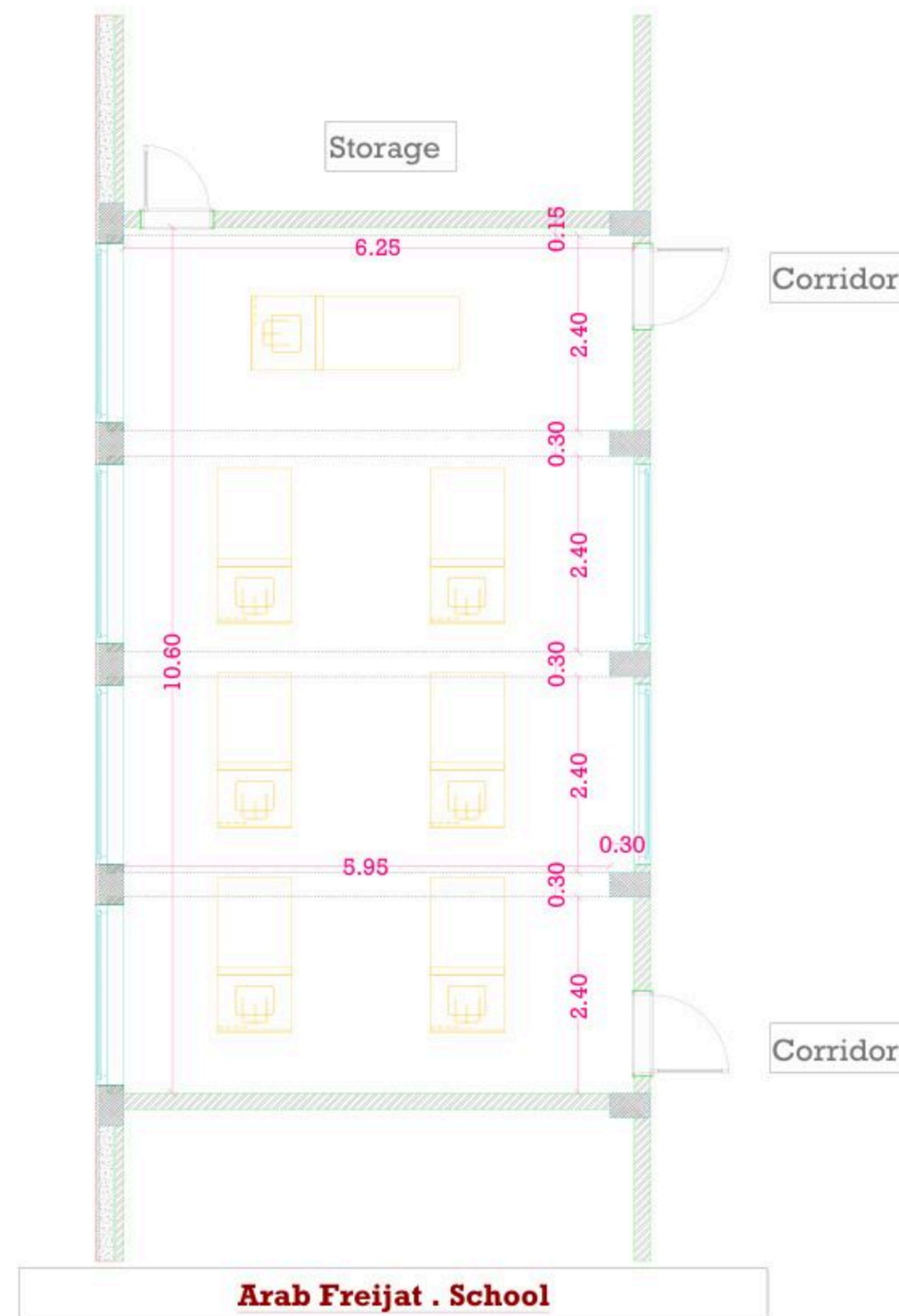
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A02	Demolition Plan

Date: 5/12/2025
Scale: 1:100



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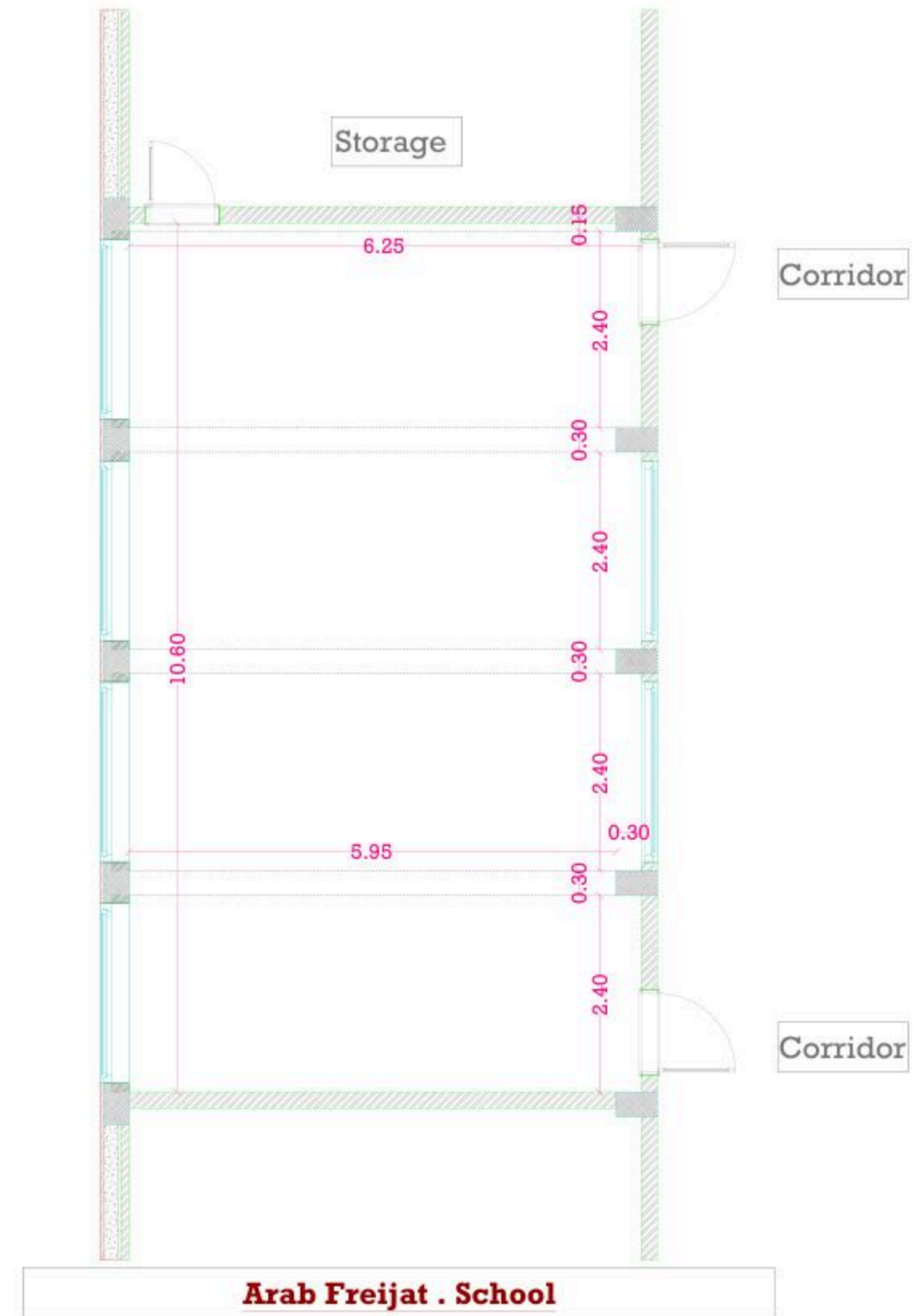
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

A03 Dimension Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK¹⁹
Lot 1



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Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W Windows Number
F.F.L. Finish Floor Level	D Doors Number
S.L. Sea Level	

Designer



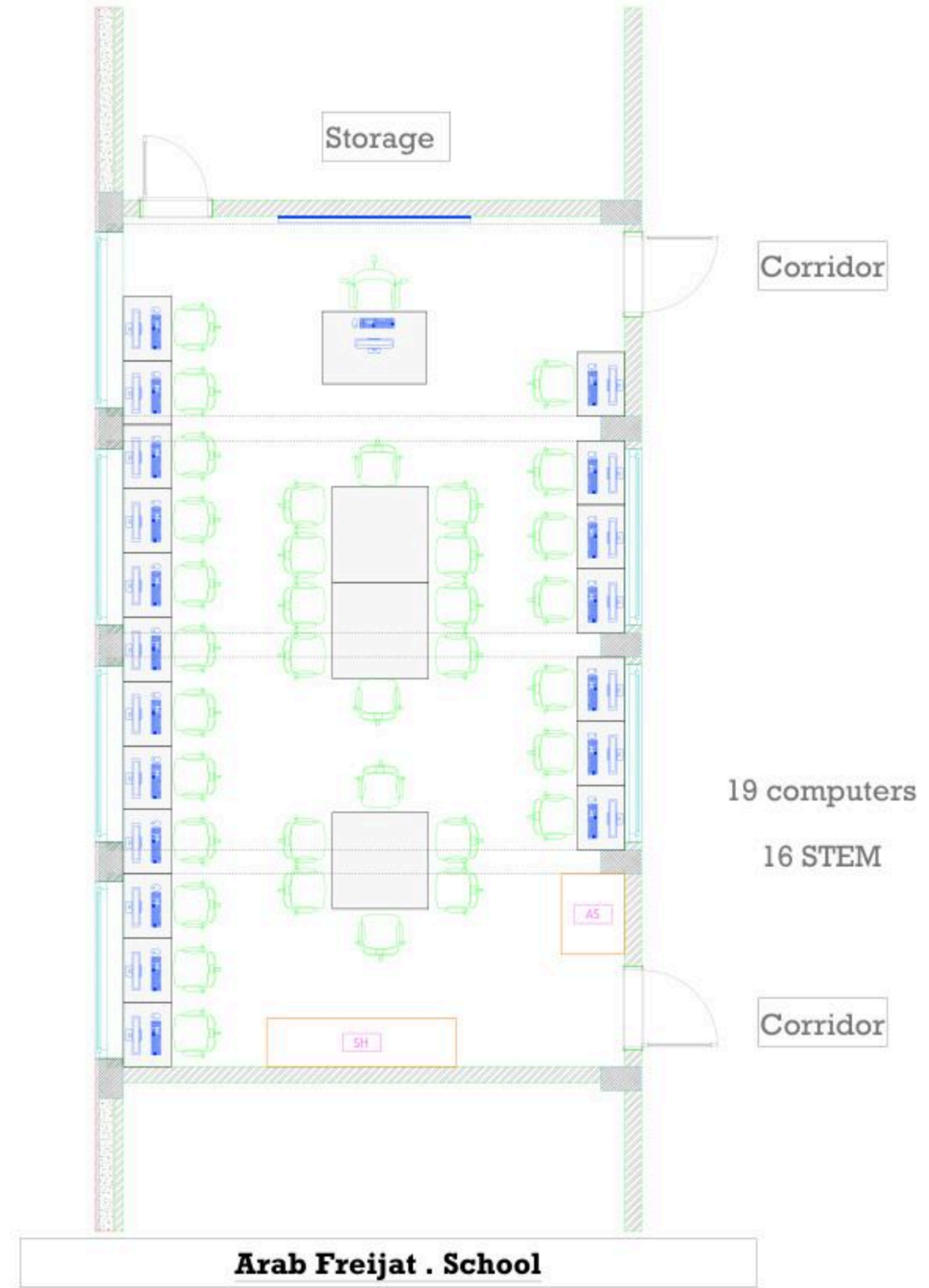
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Sheet No.	Sheet Title
A04	Furniture Plan

Date: 5/12/2025
Scale: 1:100



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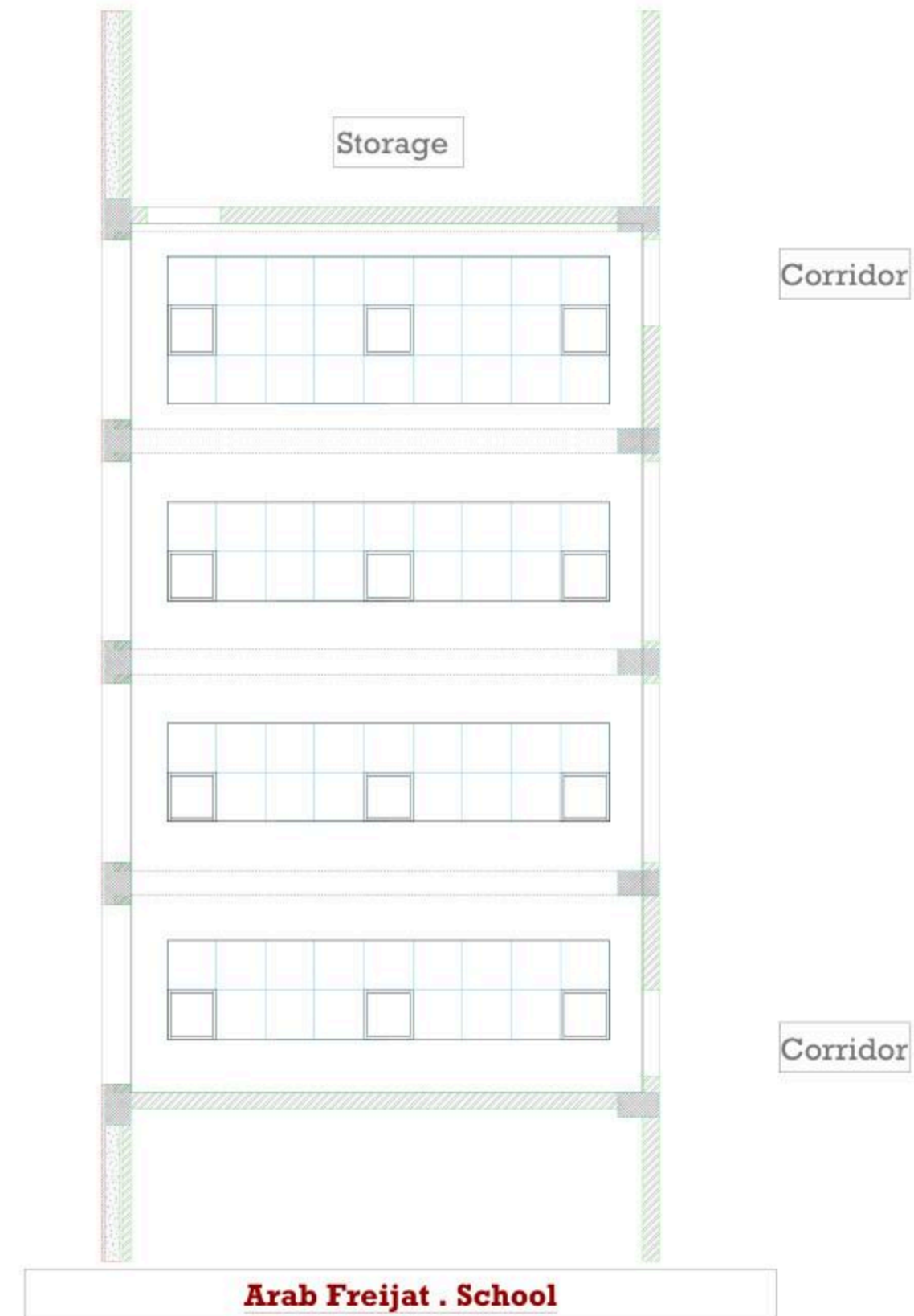
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Sheet No.	Sheet Title
A05	Ceiling Plan

Date: 5/12/2025
Scale: 1:100



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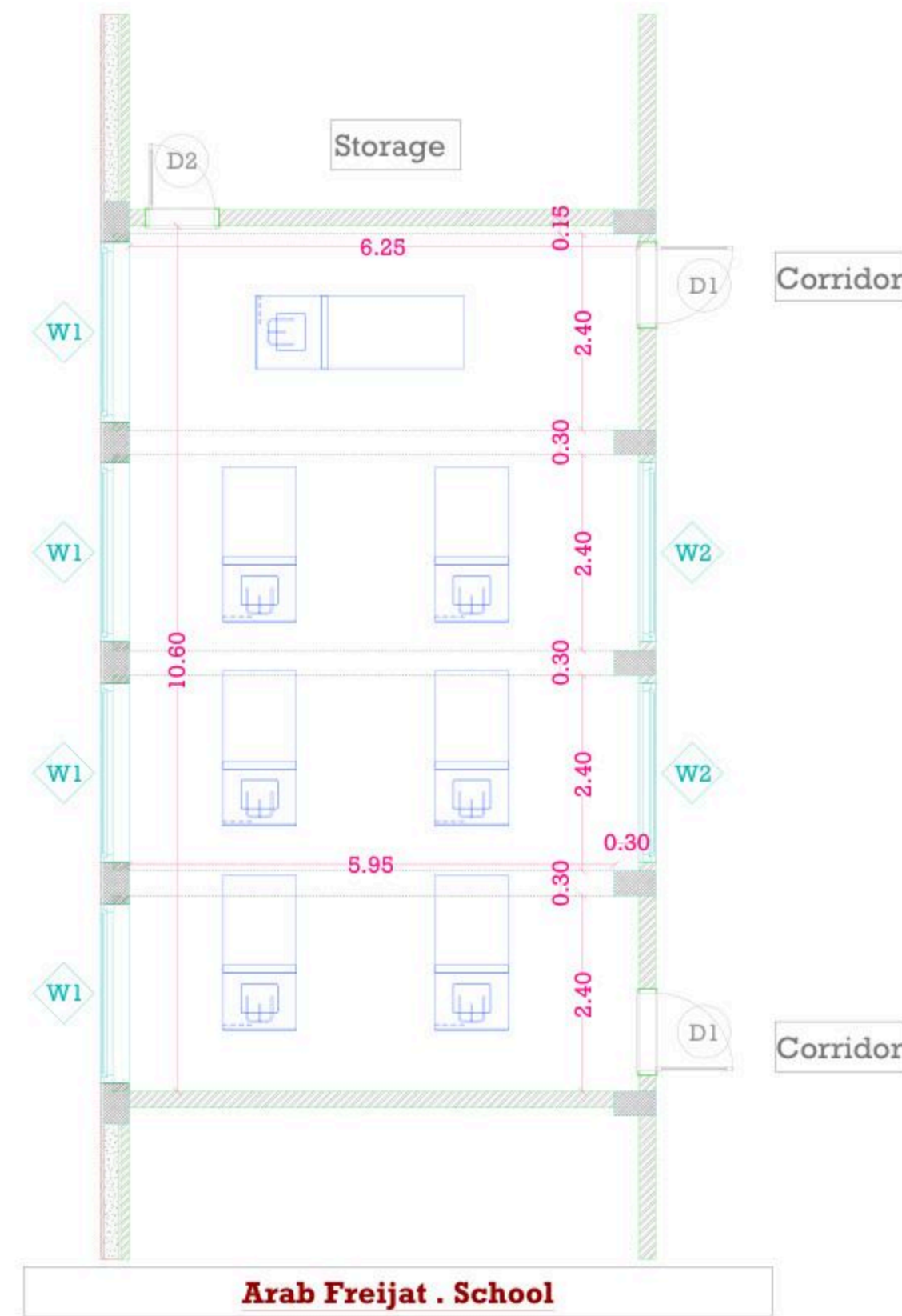
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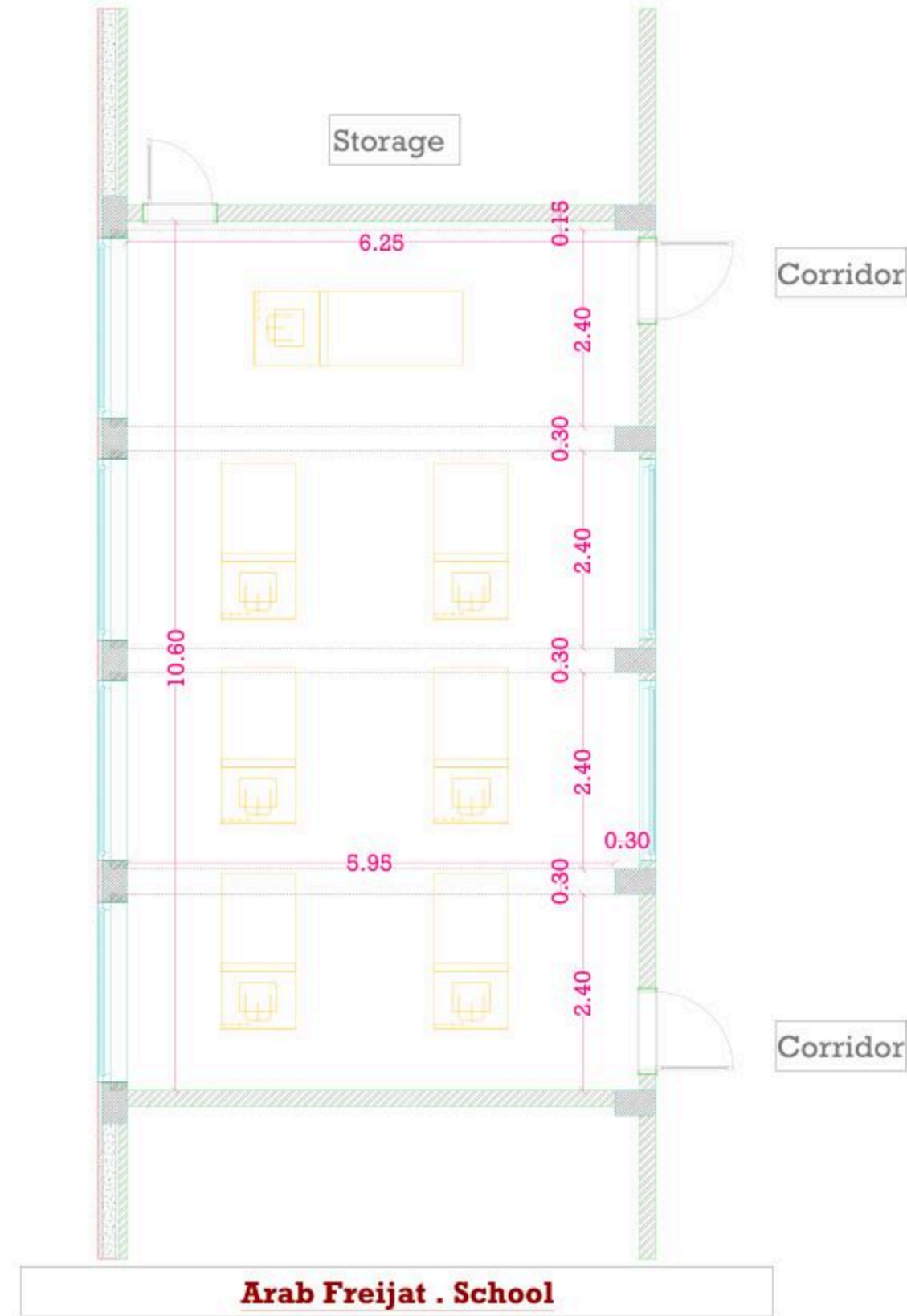
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Sheet No.	Sheet Title
M02	Demolition Plan

Date: 5/12/2025
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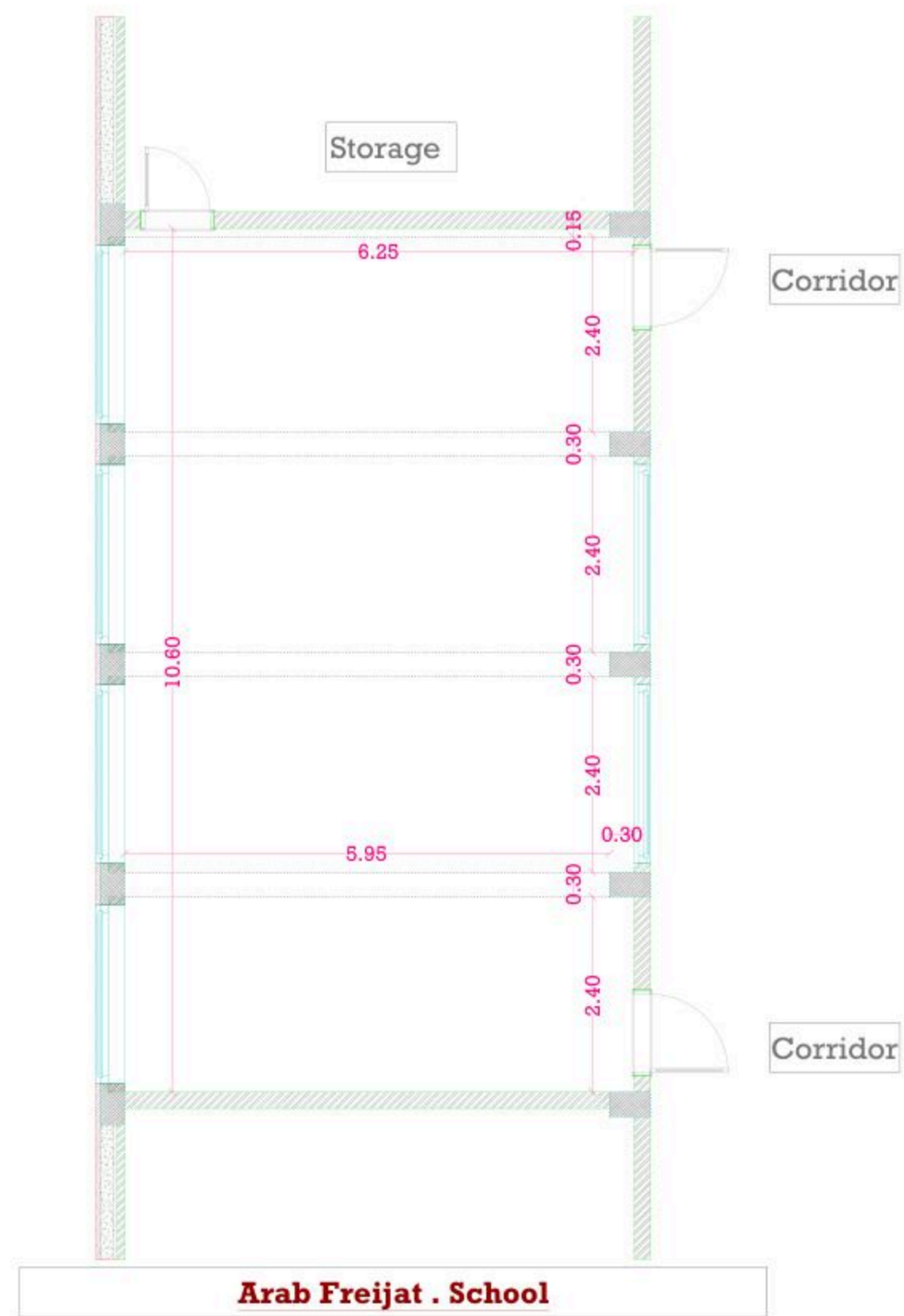


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Sheet No.	Sheet Title
M03	Dimension Plan
Date:	5/12/2025
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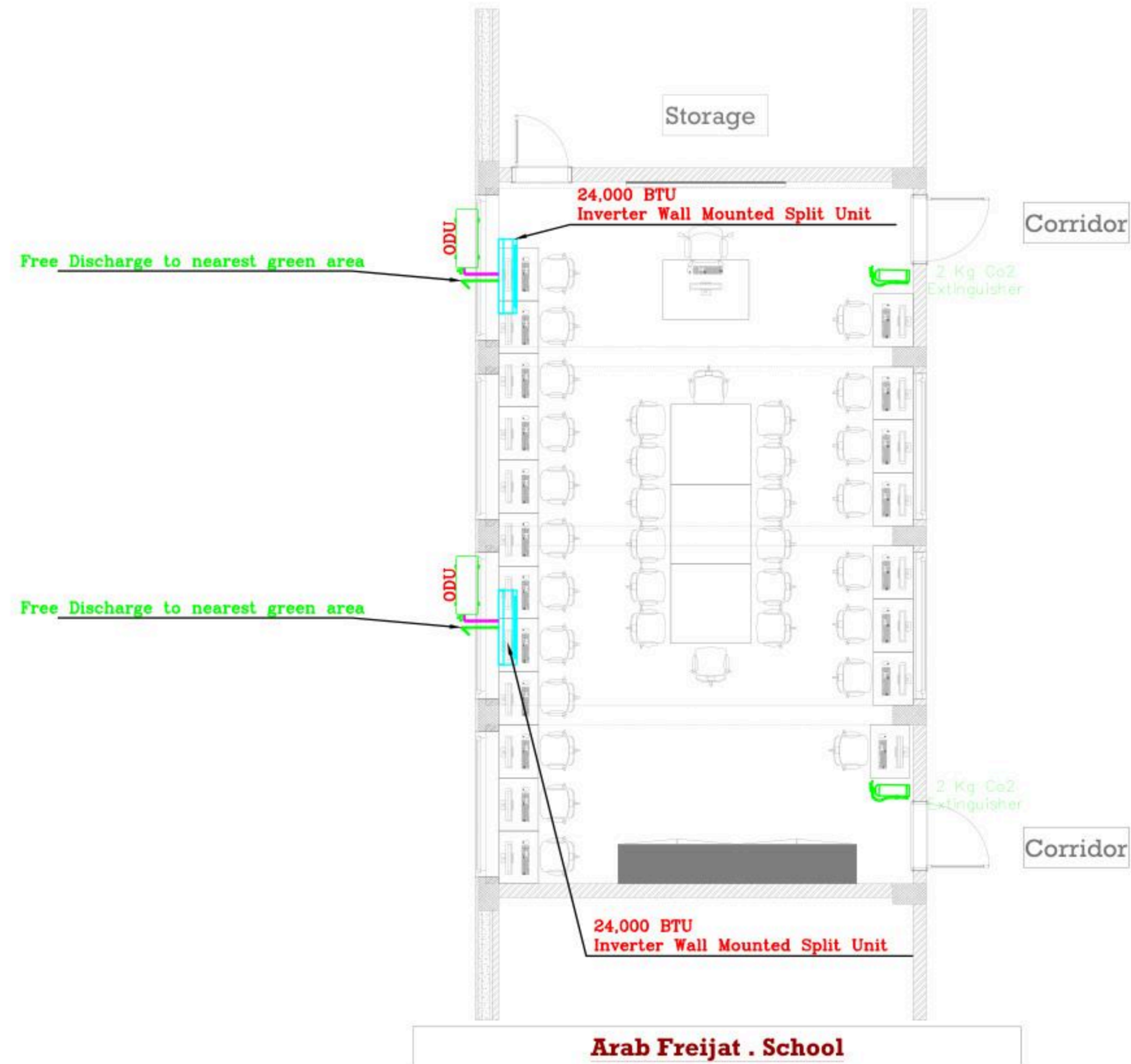
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M04	Furniture Plan

Date: 5/12/2025
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Designer

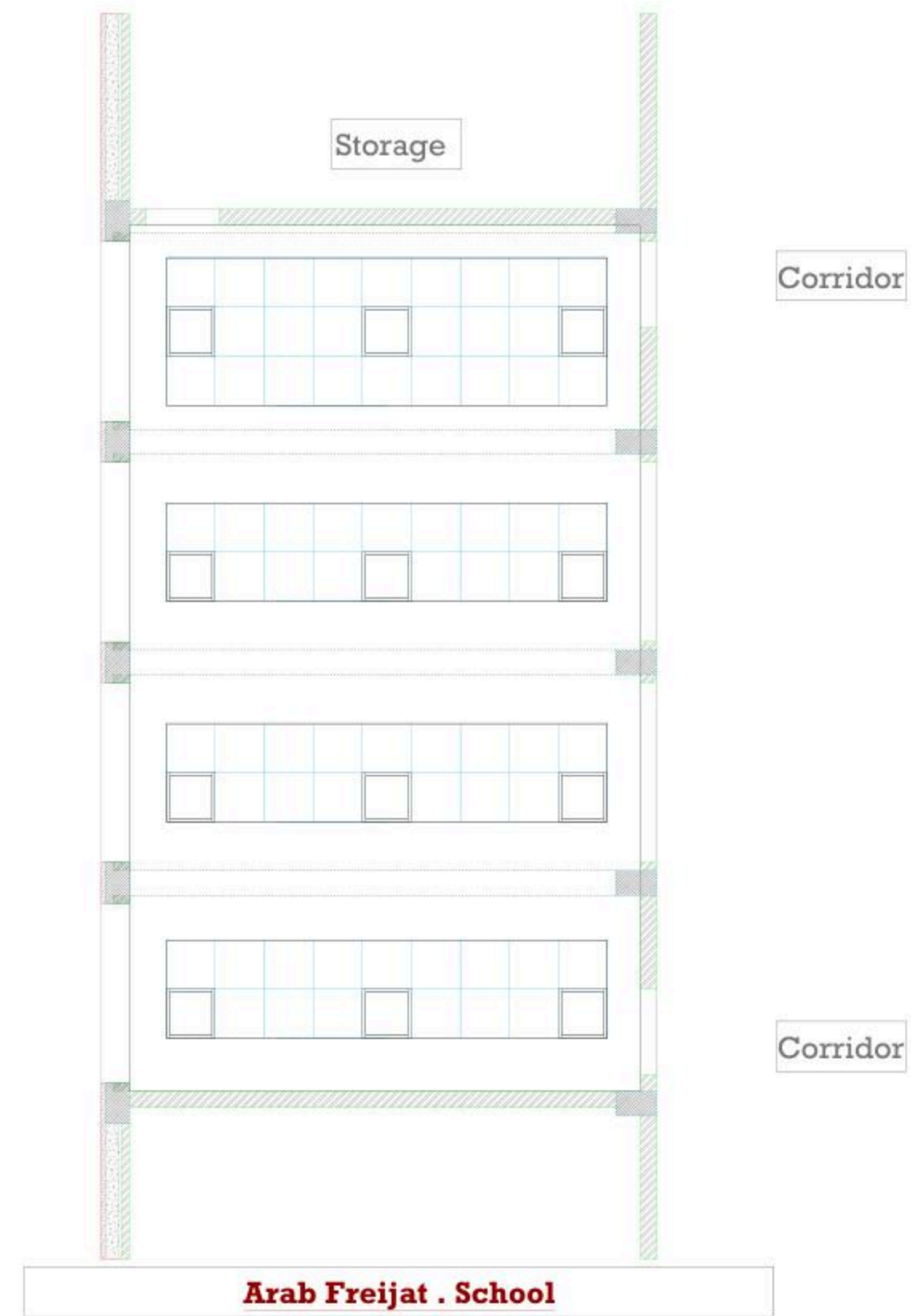


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M05	Ceiling Plan
Date:	5/12/2025
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Consultant



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Sheet No.	Sheet Title
E000	TITLES AND LEGEND

Date: 5/12/2025
Scale: 1:100

NO.	DESCRIPTION
E000	TITLE&LEGEND
E101	LIGHTING LAYOUT
E201	POWER LAYOUT
E301	LOW CURRENT LAYOUT
E401	POWER DIAGRAMS

SYMBOL	DESCRIPTION
A1	34W LED, 4500 LM, UGR 19, CRI 80, 4000K RECESS MOUNTED 60X60 CM MODULE WITH ALUMINIUM FRAME, PMMA OPAL DIFFUSER GALVANISED STEEL BACK PLATE COMPLETE WITH SEPARATE CONTROL GEAR CONVERTER MADE BY THE SAME FACTORY, IP40, IK03, 50000HR LED
A2	RECESS/SURFACE MOUNTED 3W LED EMERGENCY LIGHT 3HRS SELF-CONTAINED BATTERY, 100% LUMEN FACTOR IP20 SELF-TEST

SYMBOL	DESCRIPTION
	3-PIN,(1-PHASE) 16A SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	SOCKET ABOVE FALSE CEILING
	3-PIN,(1-PHASE) 16A SOCKET OUTLET RED COLOR CONNECTED TO UPS
	DITTO, BUT DOUBLE SOCKET OUTLET ABOVE FALSE CEILING
	5-PIN(3-PHASE) 16A SOCKET OUTLET
	20A AC SOCKET OUTLET
	ELECTRICAL BELL
	ELECTRIC BOX.
	WALL EXTRACT FAN
	IN-LINE EXTRACT FAN
	2-POLE ISOLATING SWITCH
	4-POLE ISOLATING SWITCH
	AC UNIT,OUTDOOR,INDOOR.
	CIRCUIT BREAKER,MCB,MCCB
	EARTH LEAKAGE RELAY (RCD)
	AUTOMATIC TRANSFER SWITCH (ATS)
	HAND DRYER OUTLET
	HOT WATER CYLINDER
	WATER PUMP
	THERMOSTAT OUTLET
	FAN COIL UNIT
	CENTRIFUGAL EXTRACT FAN
	ONE-WAY SWITCH SINGLE POLE/ONE GANG,TWO GANG, THREE GANG,DOUBLE POLE SWITCH.
	TWO-WAY SINGLE POLE SWITCH/INTERMEDIATE, CROSS SWITCH
	SWITCH PANNEL
	PUSH BUTTON
	SHUTTER,DOOR MOTOR
	SHUTTER SWITCH UP/DN
	TELEPHONE SOCKET OUTLET
	RJ45 DATA SOCKET OUTLET
	WIRELESS ACCESS POINT-WI-FI
	SATELLITE SOCKET OUTLET
	INDOOR INTERCOM UNIT
	OUTDOOR INTERCOM UNIT
	ADSL ROUTER
	DOME CAMERA
	BOX CAMERA
	360'DOME CAMERA
	LOW VOLTAGE BOARD
	DATA RACK CABINET
	DISTRIBUTION BOARDS/MAIN,SUB

SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HEAT DETECTOR
	GAS DETECTOR
	MANUAL PULL STSTION/BREAK GLASS UNIT
	INDICATION LAMP
	INDOOR SIREN AUDIO ONLY
	OUTDOOR SIREN AUDIOVISUAL.
	CONTROL MODULE
	REPEATER PANEL
	FIRE ALARM CONTROL PANEL
	MOTION DETECTOR
	360° MOTION DETECTOR
	VIBRATION DETECTOR
	MAGNETIC CONTACTS
	HAND PANIC BUTTON
	FOOT PANIC BUTTON
	KEYBAD
	INTRUSION INDOOR SIREN AUDIO ONLY
	INTRUSION OUTDOOR SIREN AUDIOVISUAL.
	BURGLAR ALARM CONTROL PANEL
	PROXIMITY HID CARD READER
	DOOR LOCK
	REQUEST TO EXIT PUSH BUTTON
	SUPERVISORY MAGNETIC CONTACTS
	JUNCTION BOX
	ACCESS CONTROL PANEL
	TICKET DISPENSER UNIT (TDU)
	COUNTER DISPLAY UNIT (CDU)
	TELLER STATION UNIT (TSU)
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	HORN SPEAKER
	VOLUME CONTROL
	MIC SOCKET OUTLET
	MIC STATION
	PAVA RACK
	MULTI OUTLET WALL MOUNTED BOX,12/18 MODULE
	FLOOR MOUNTED MULTI OUTLET BOX,16 MODULE

GENERAL NOTES

- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.
- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.
- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.
- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.
- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).
- The height of the top edge of the power Distribution Board above FFL to be 180 cm.
- All panel boards shall be with doors, and shall be wether water proof in wet areas.
- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.
- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.
- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.
- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop
Galvanized steel strips should not be less than 30*3mm
Earth resistance measuring shall be carried before backfilling.

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Consultant



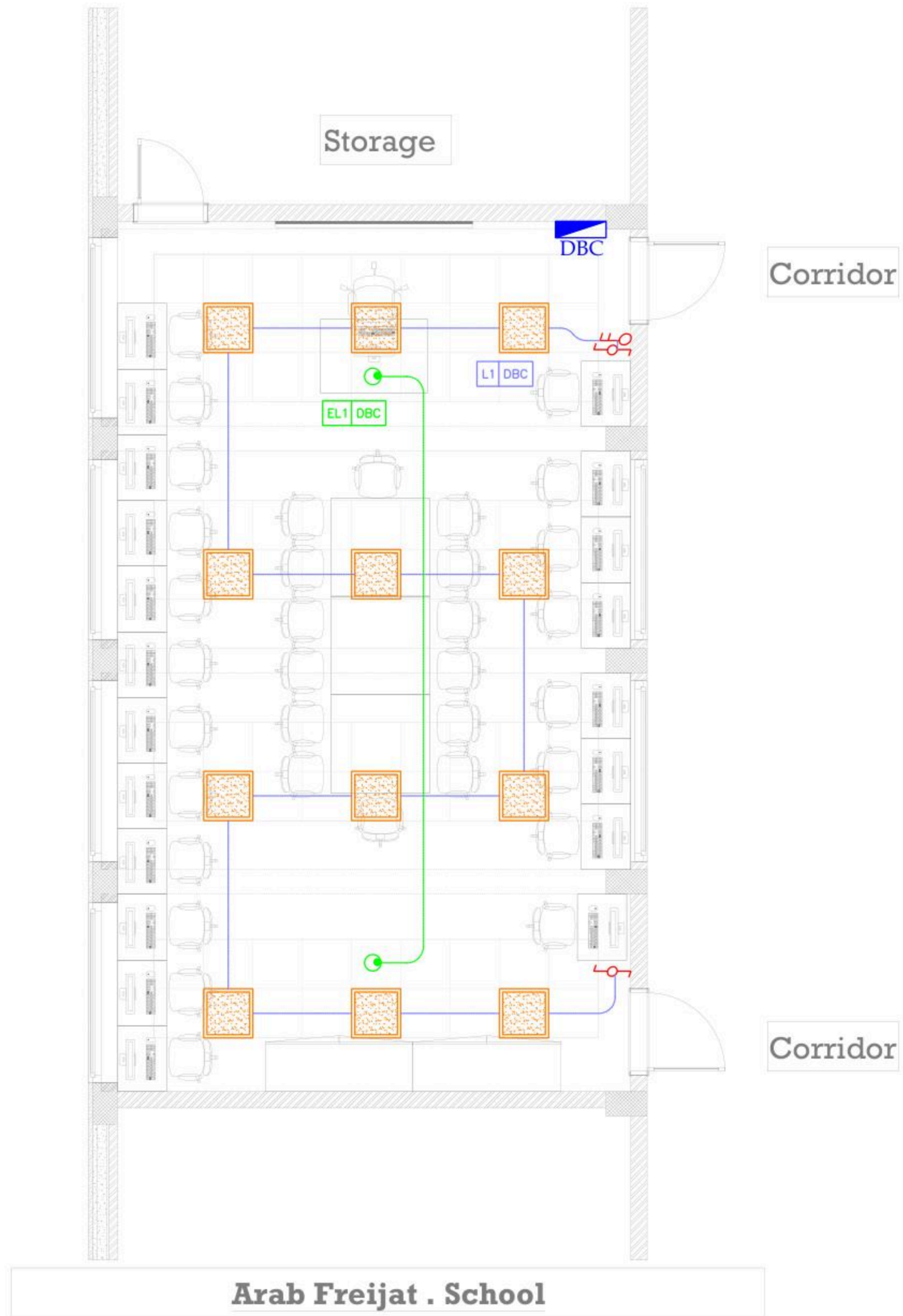
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Project Team

Team Leader	Arch. Malek Z. Murad
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Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date:	5/12/2025
Scale:	1:100



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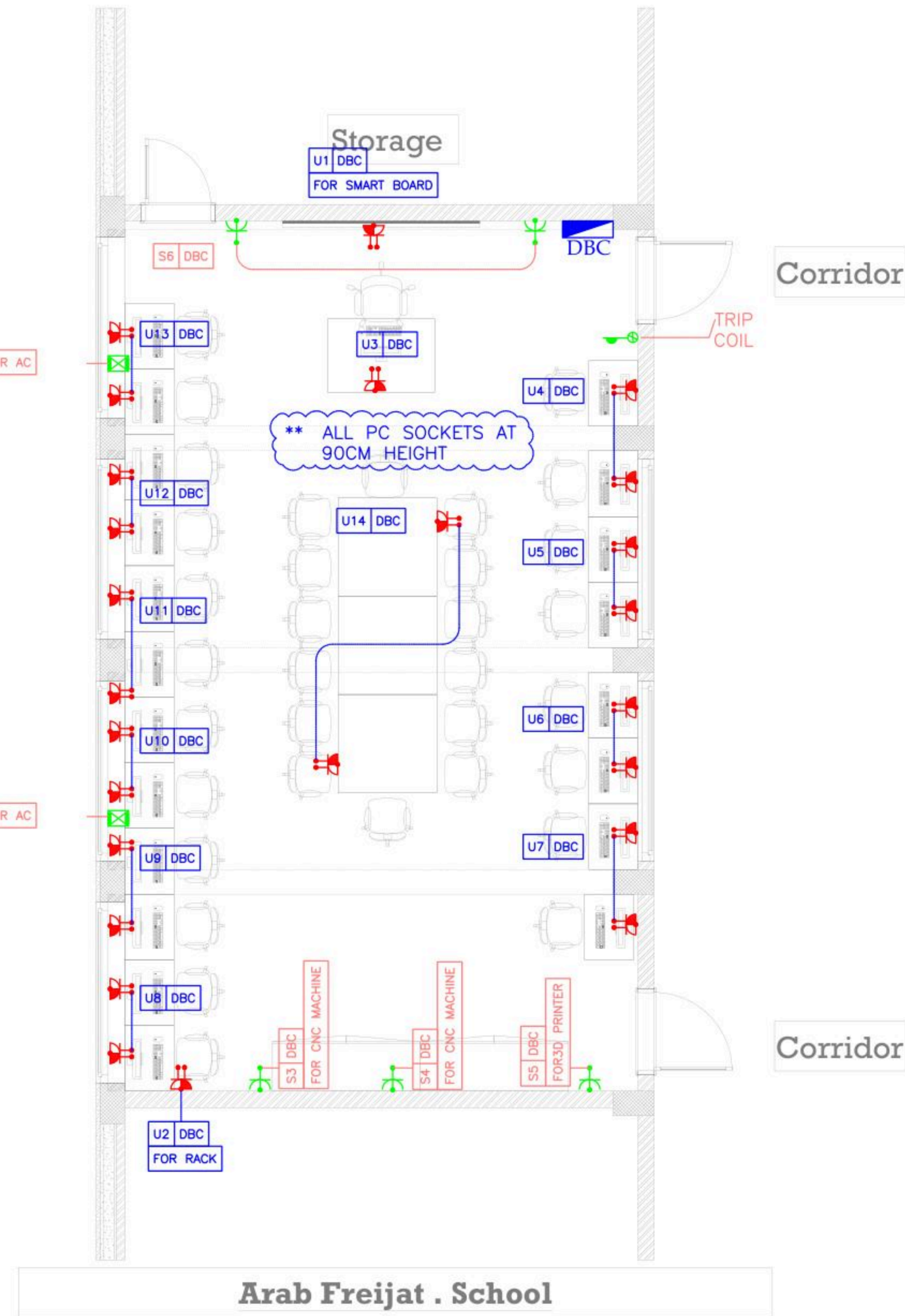
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Sheet No.	Sheet Title
E201	POWER LAYOUT

Date:	5/12/2025
Scale:	1:100



Arab Freijat . School

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Consultant



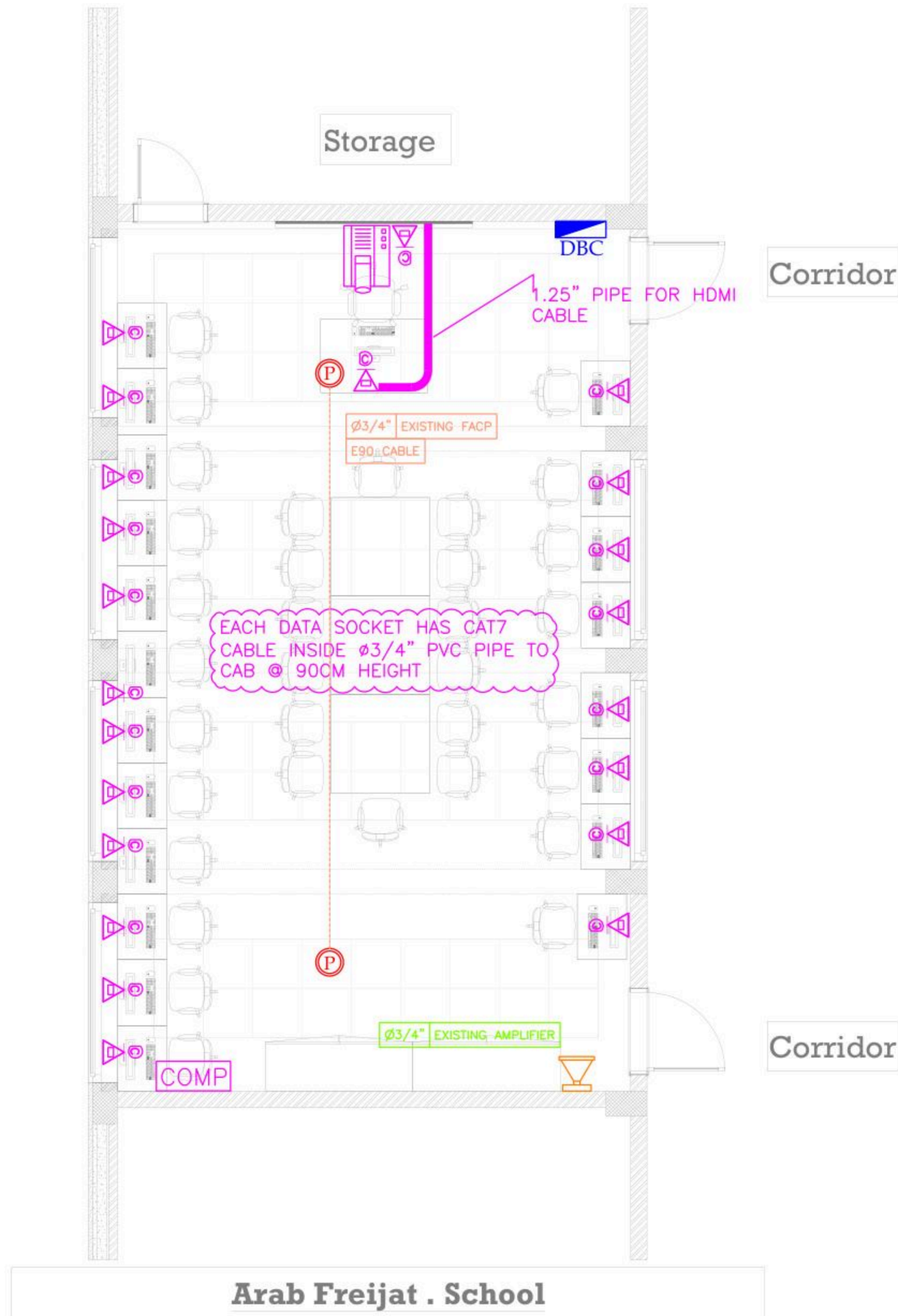
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Sheet No.	Sheet Title
E301	LOW CURRENT LAYOUT

Date:	5/12/2025
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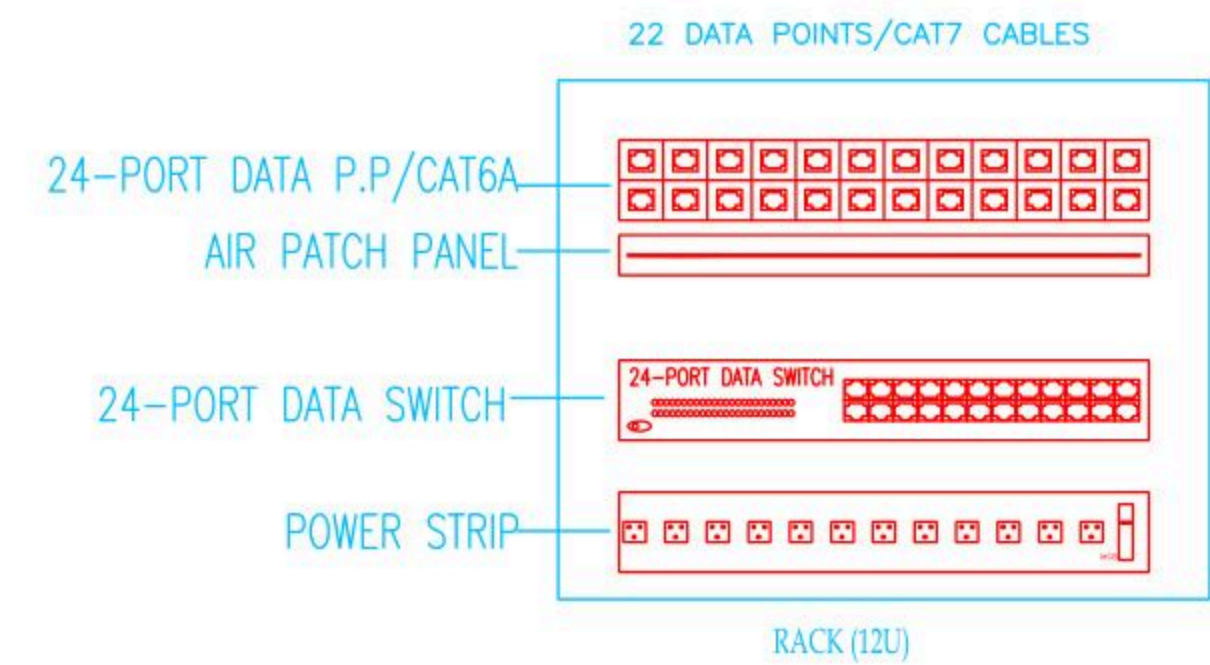
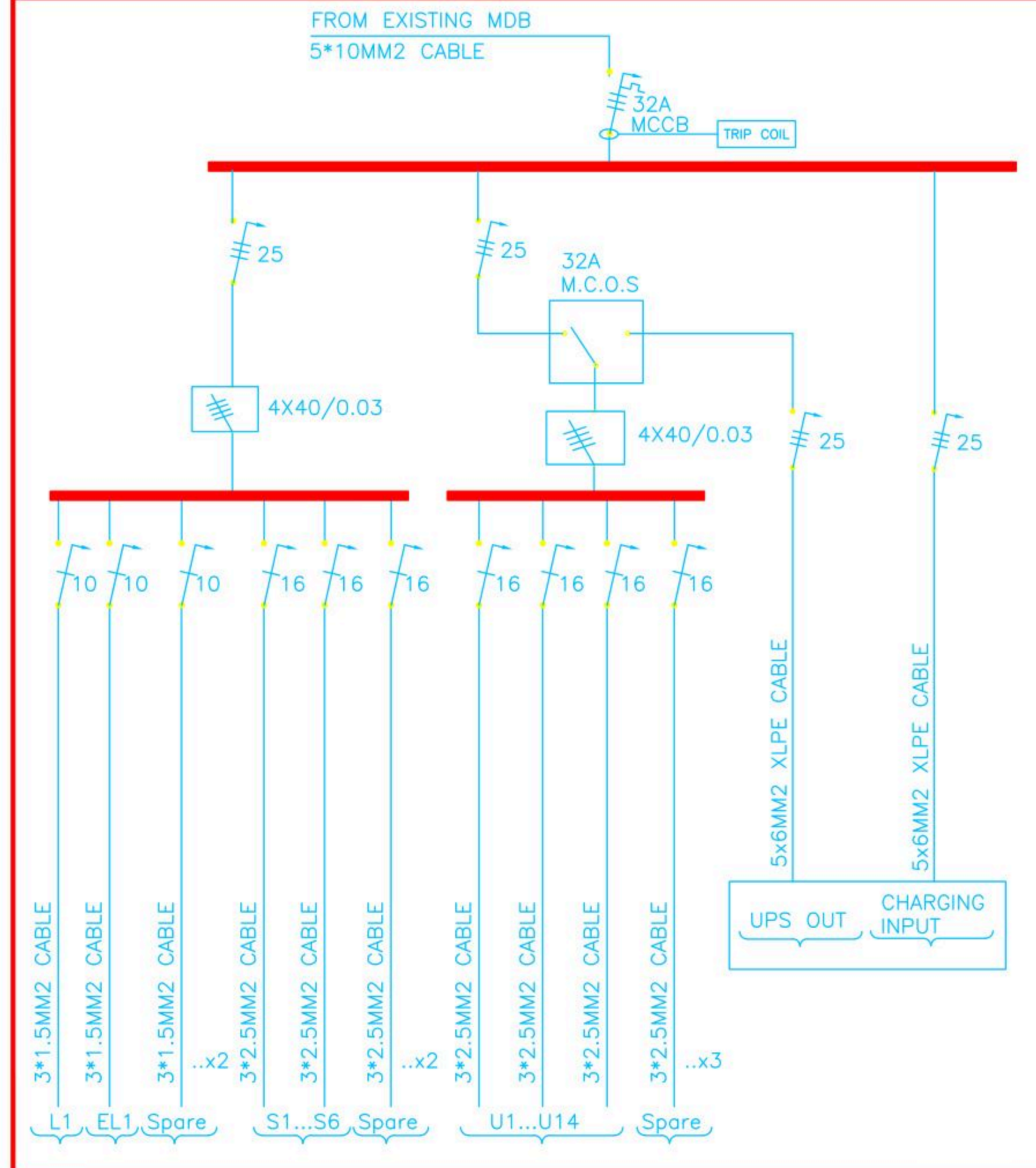
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BOARD NAME: DBC





Belgium
partner in development

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Lot 1 Southern Governorates

Thubra CO-ED

Consultant

Implemented By

AE ARAB ENGINEERS
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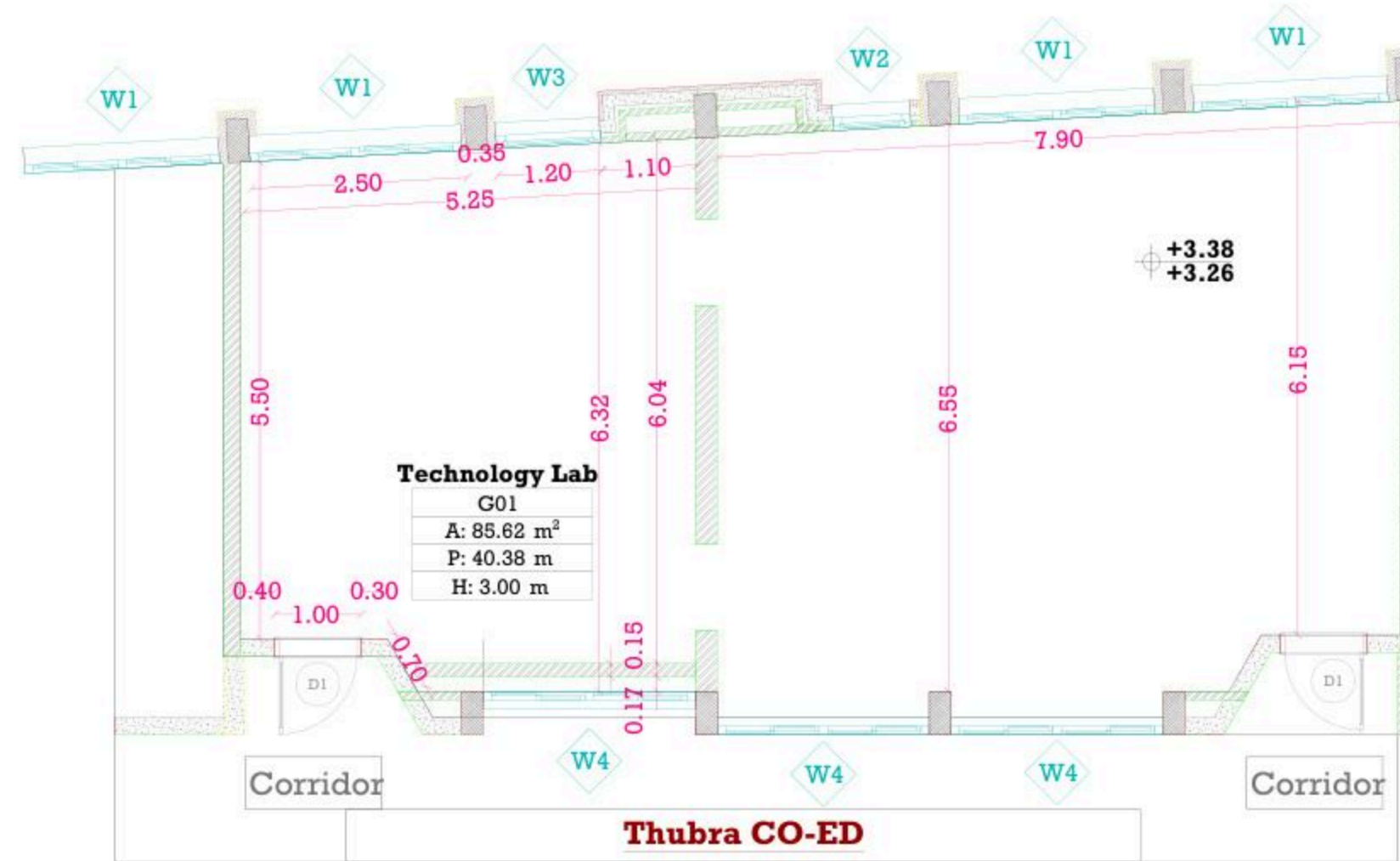


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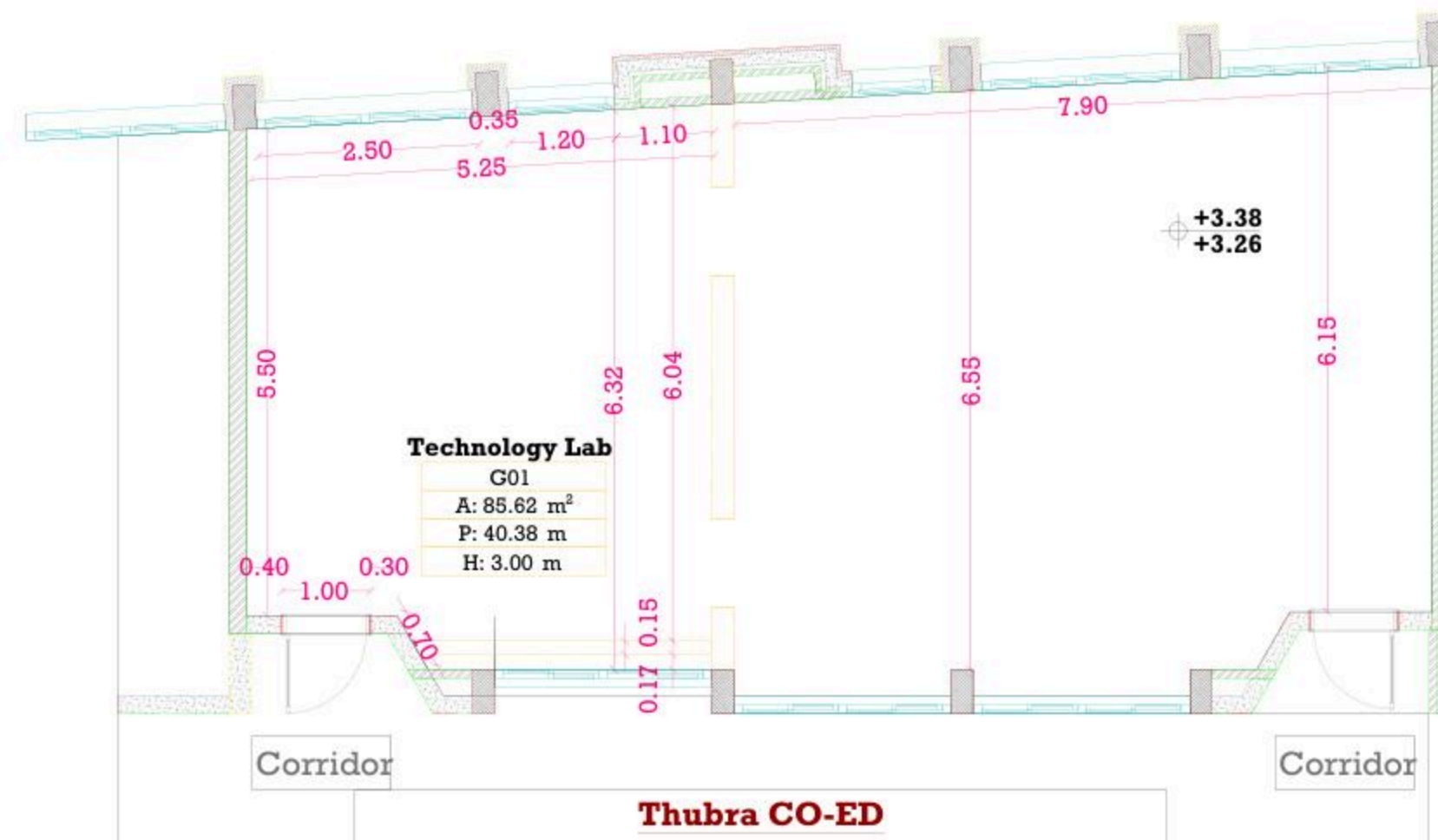
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Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A02	Demolition Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A- Section Number
Shear Walls	D- Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W1 Windows Number
F.F.L. Finish Floor Level	D1 Doors Number
S.L. Sea Level	

Designer



Adress: Palestine - Hebron - Halhul - Main Street
Tel: + 970 2 2226361 Fax: + 970 2
Email: info@arabengineers-Pal.com
Web-Site: www.arabengineers-Pal.com

Project Team

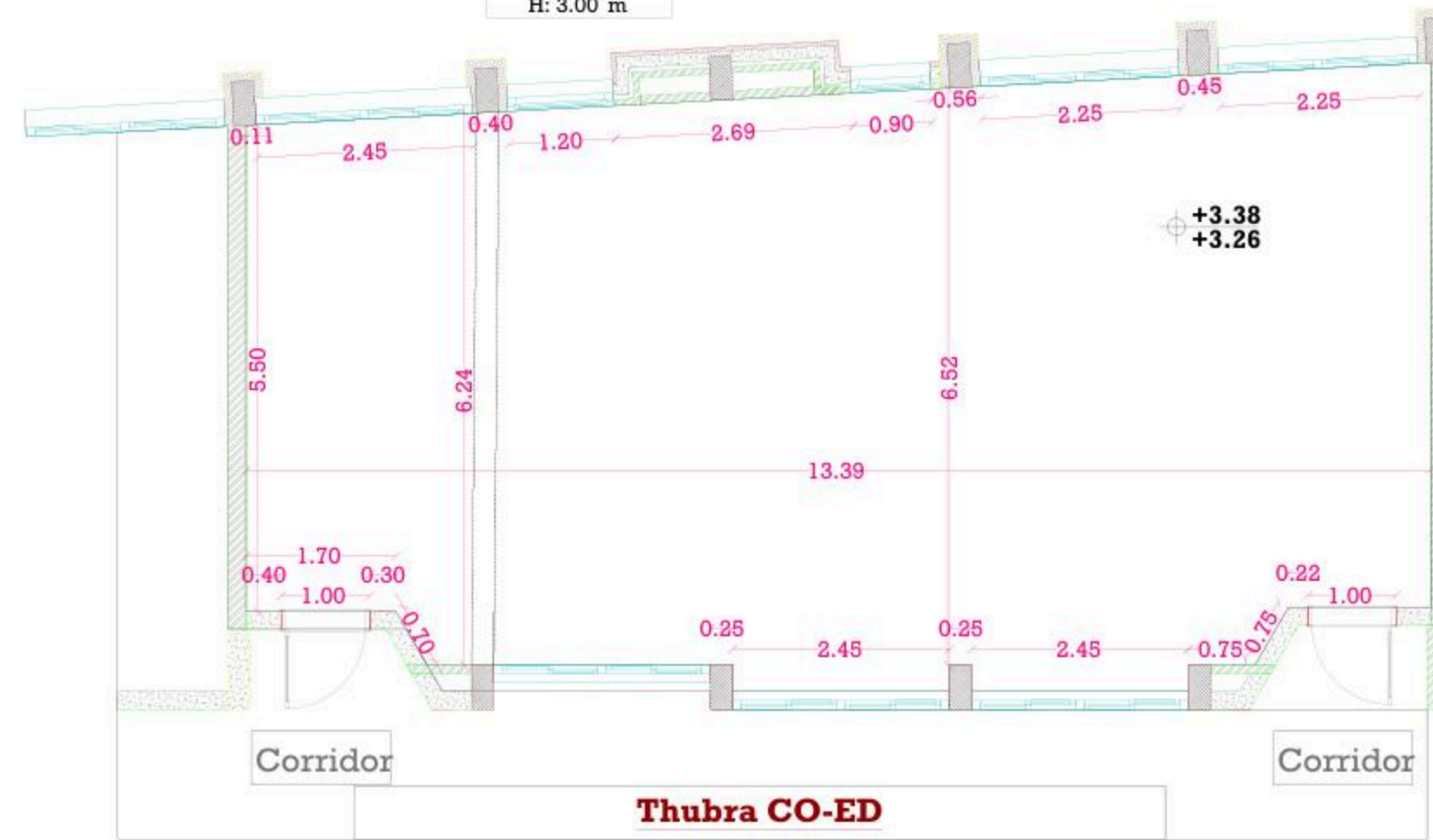
Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A03	Dimension Plan

Date: 5/12/2025
Scale: 1:100

Technology Lab

G04
A: 69.54 m²
P: 36.59 m
H: 3.00 m



شبكة كراسي وطاولات جاهز

وحدات انارة 4

December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

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Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
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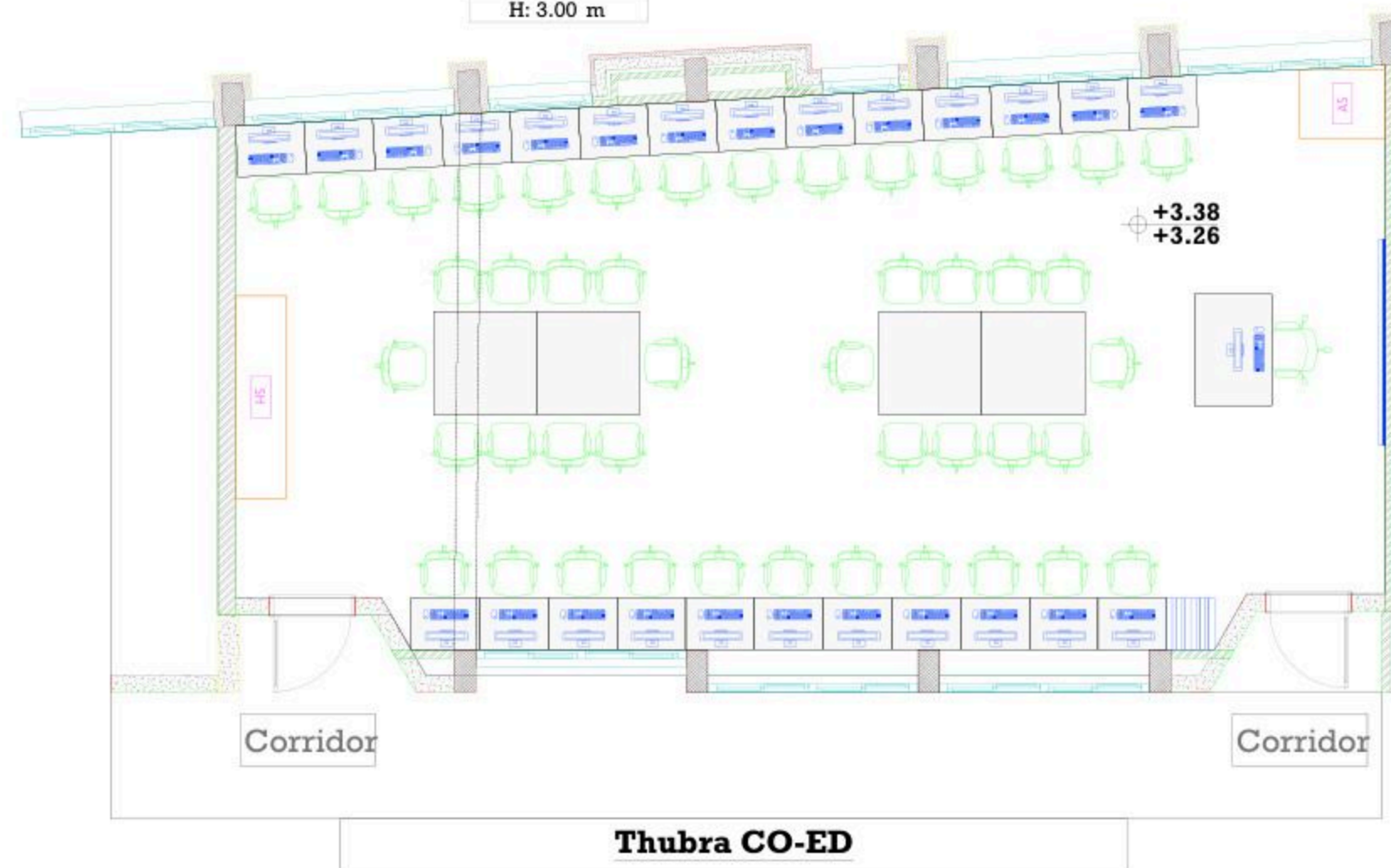
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A04	Furniture Plan
Date:	5/12/2025
Scale:	1:100

Technology Lab

G04
A: 69.54 m ²
P: 36.59 m
H: 3.00 m



25 computers
20 STEM

December - 2025

Project Name

**Public works contract FOR THE
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Symbol, Hatches & Legend

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Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
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Designer

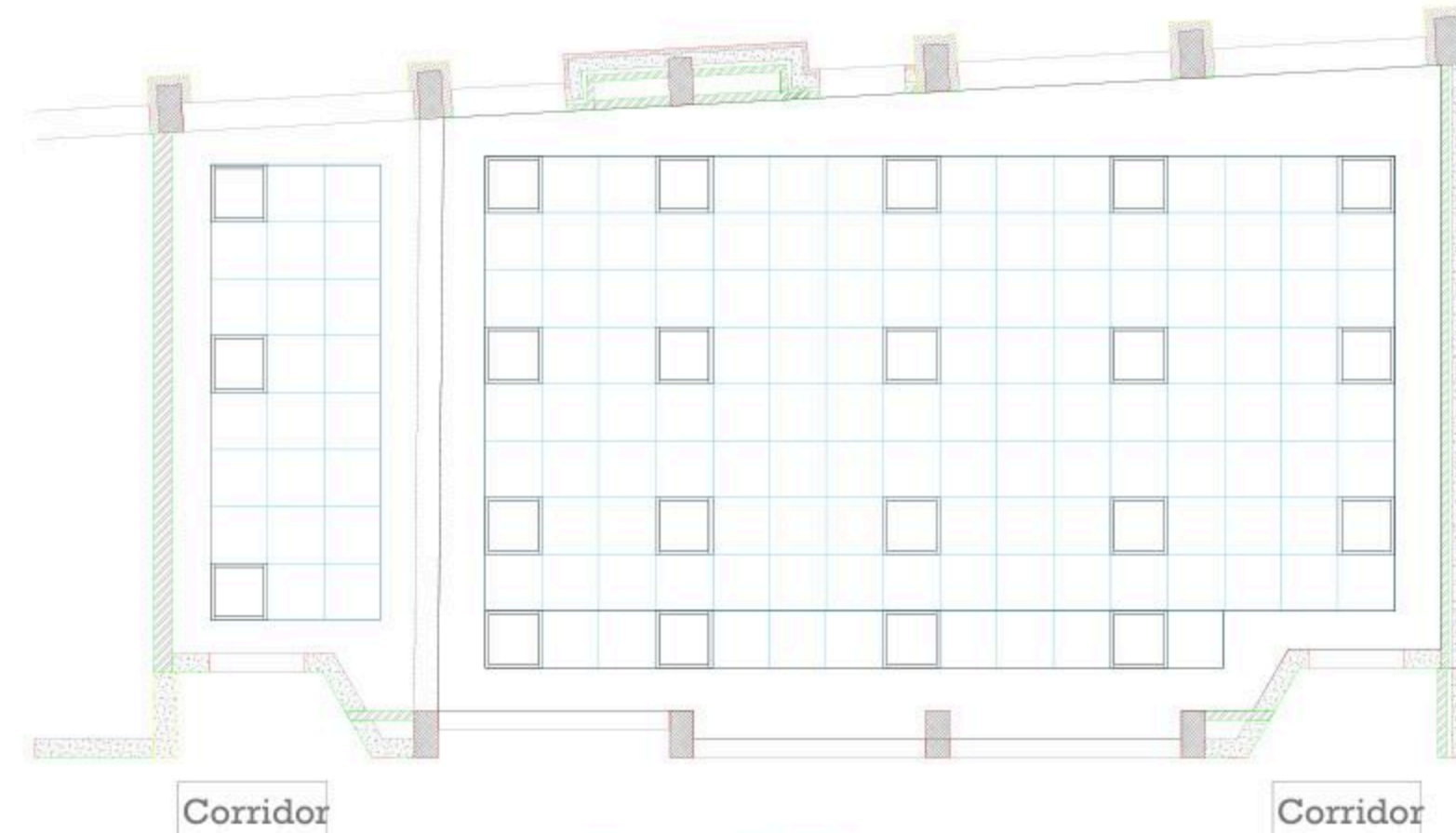


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A05	Ceiling Plan
Date:	5/12/2025
Scale:	1:100



Thubra CO-ED

شبكة كراسي وطاولات جاهز

December - 2025

Project Name

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Belgian agency for international cooperation



Symbol, Hatches & Legend

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Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
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Project Team

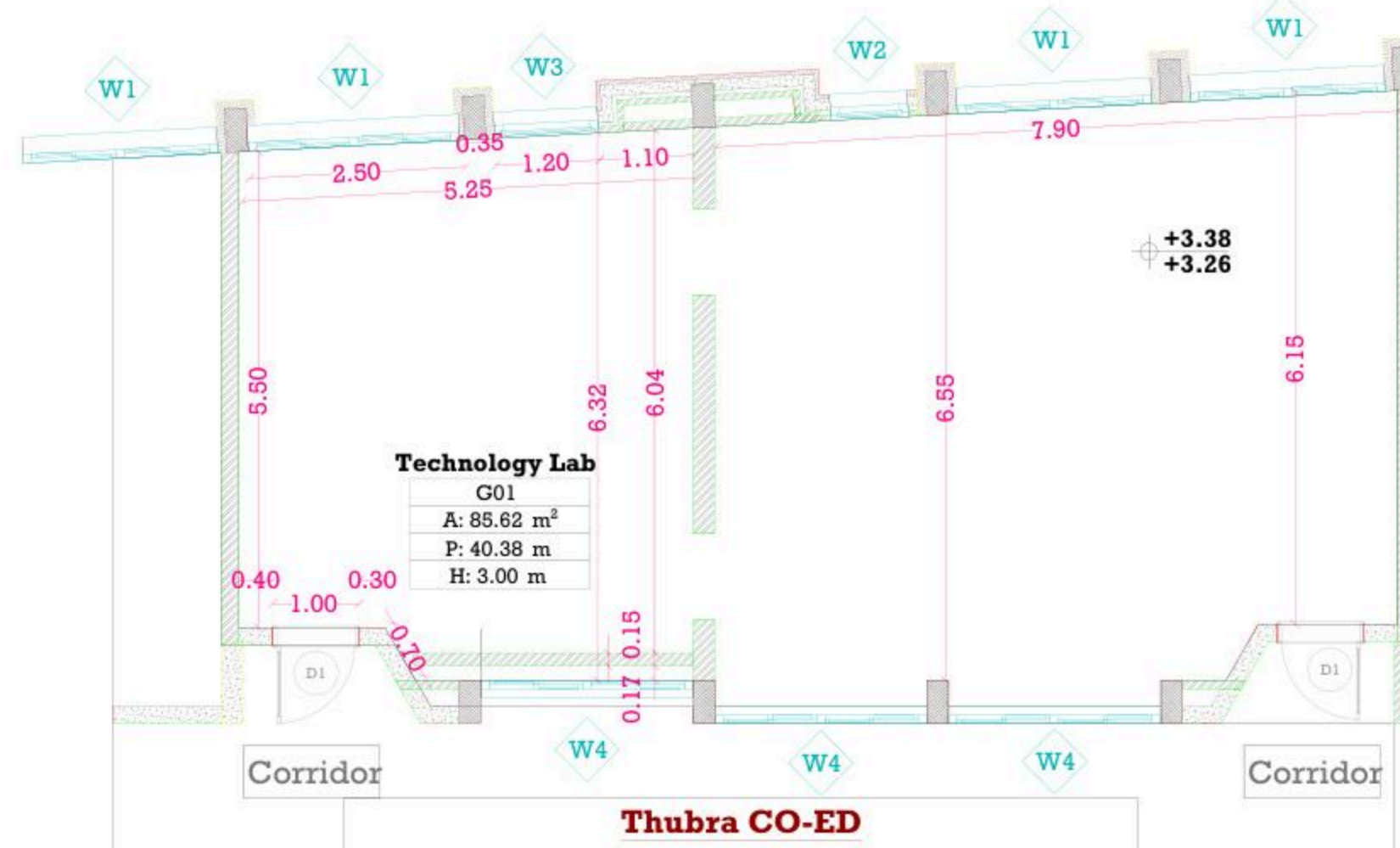
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

M01 Existing Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

Public works contract FOR THE
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Designer

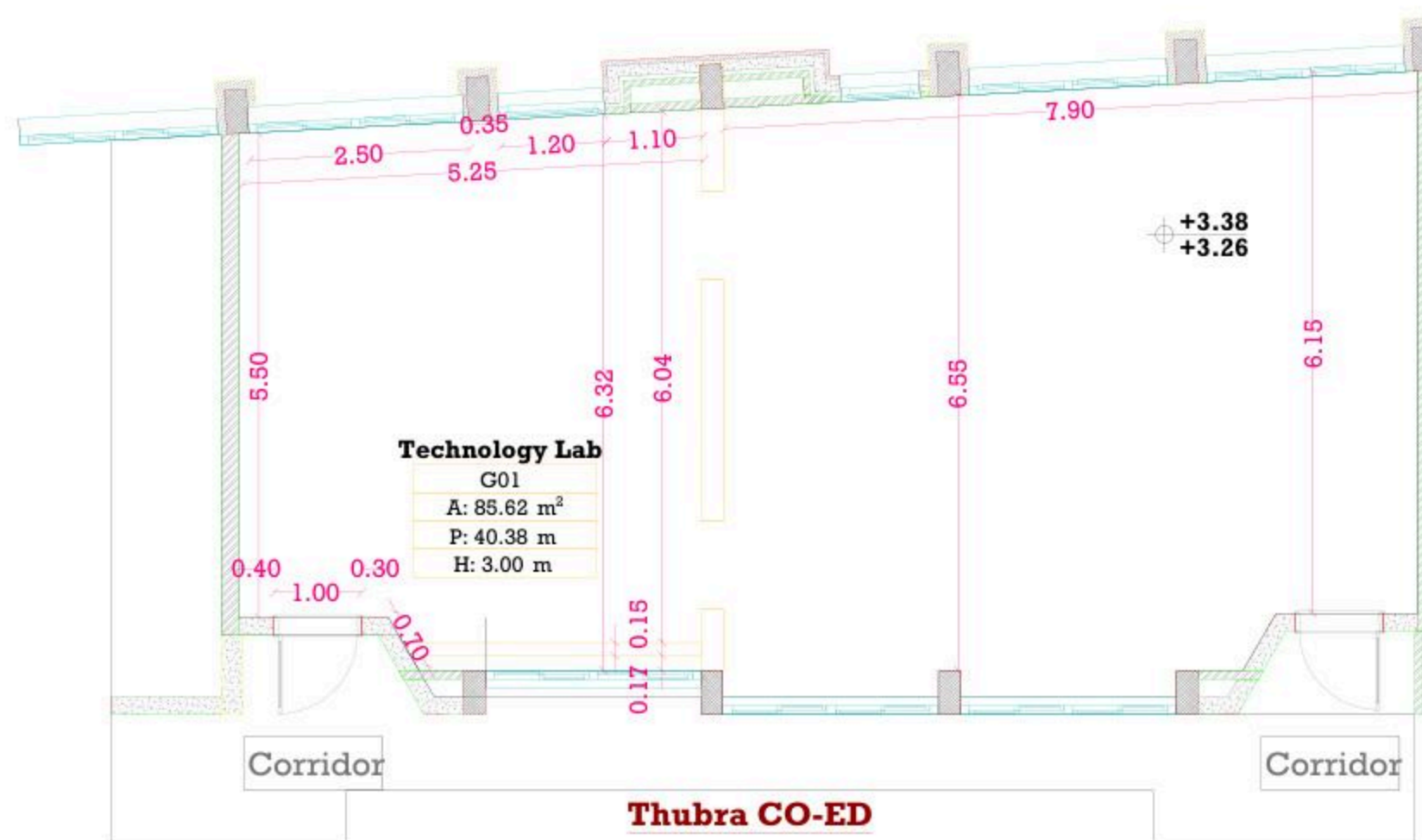


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M02	Demolition Plan
Date:	8/12/2025
Scale:	1:100



December - 2025

Project Name

Public works contract FOR THE
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Symbol, Hatches & Legend

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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

M03 Dimension Plan

Date: 5/12/2025

Scale: 1:100

Technology Lab

G04

A: 69.54 m²

P: 36.59 m

H: 3.00 m



شبكة كراسي وطاولات جاهز

وحدات انارة 4

December - 2025

Project Name

Public works contract FOR THE
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Lot 1



Contracting Authority

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S.L Sea Level	

Designer



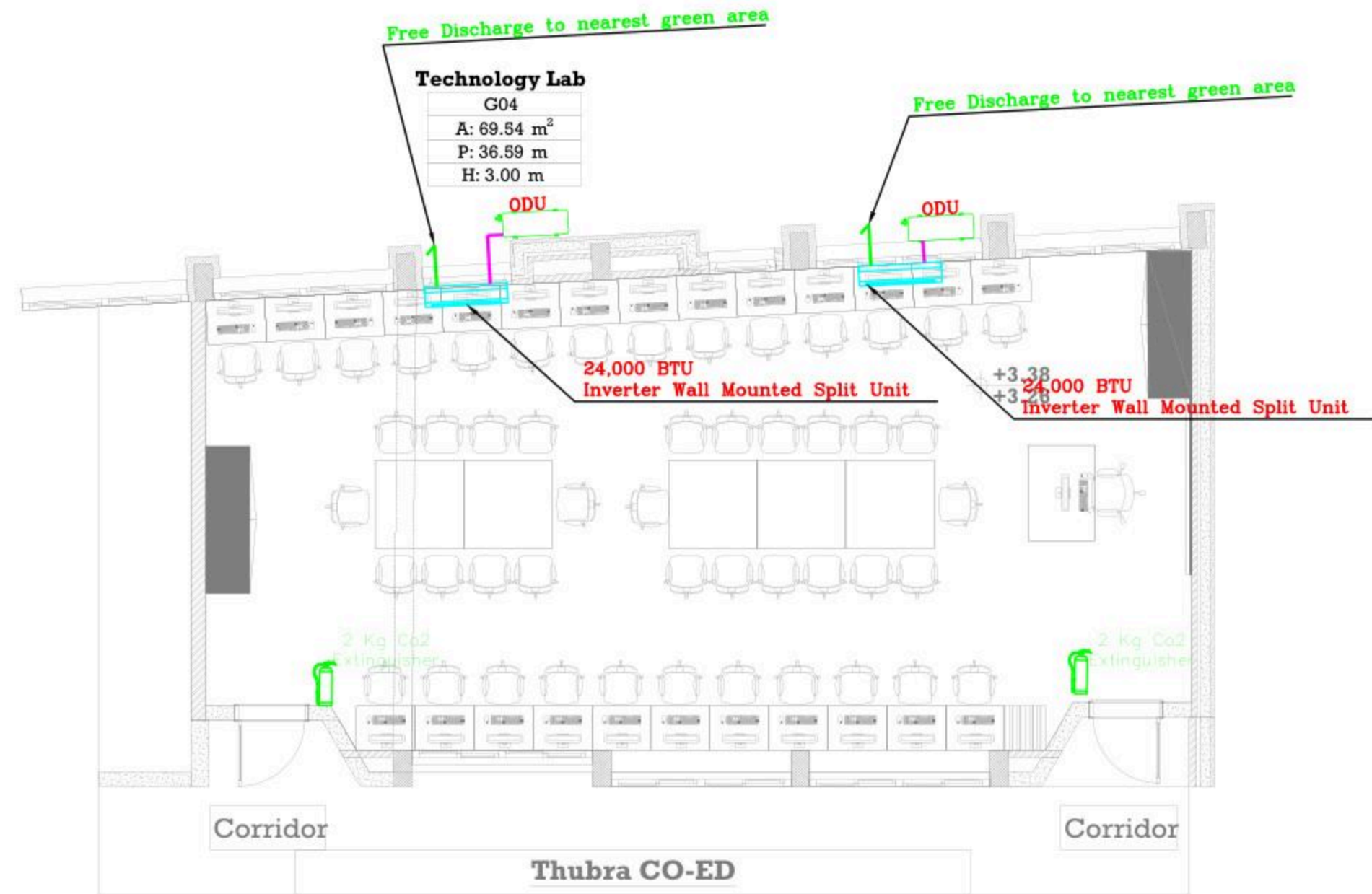
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M04	Furniture Plan

Date: 5/12/2025
Scale: 1:100



شبكة كراسي وطاولات جاهز

وحدات انارة 4

December - 2025

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Symbol, Hatches & Legend

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Cement Block	R.C. Level
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R.C.L. Rein. Concrete Level	Windows Number
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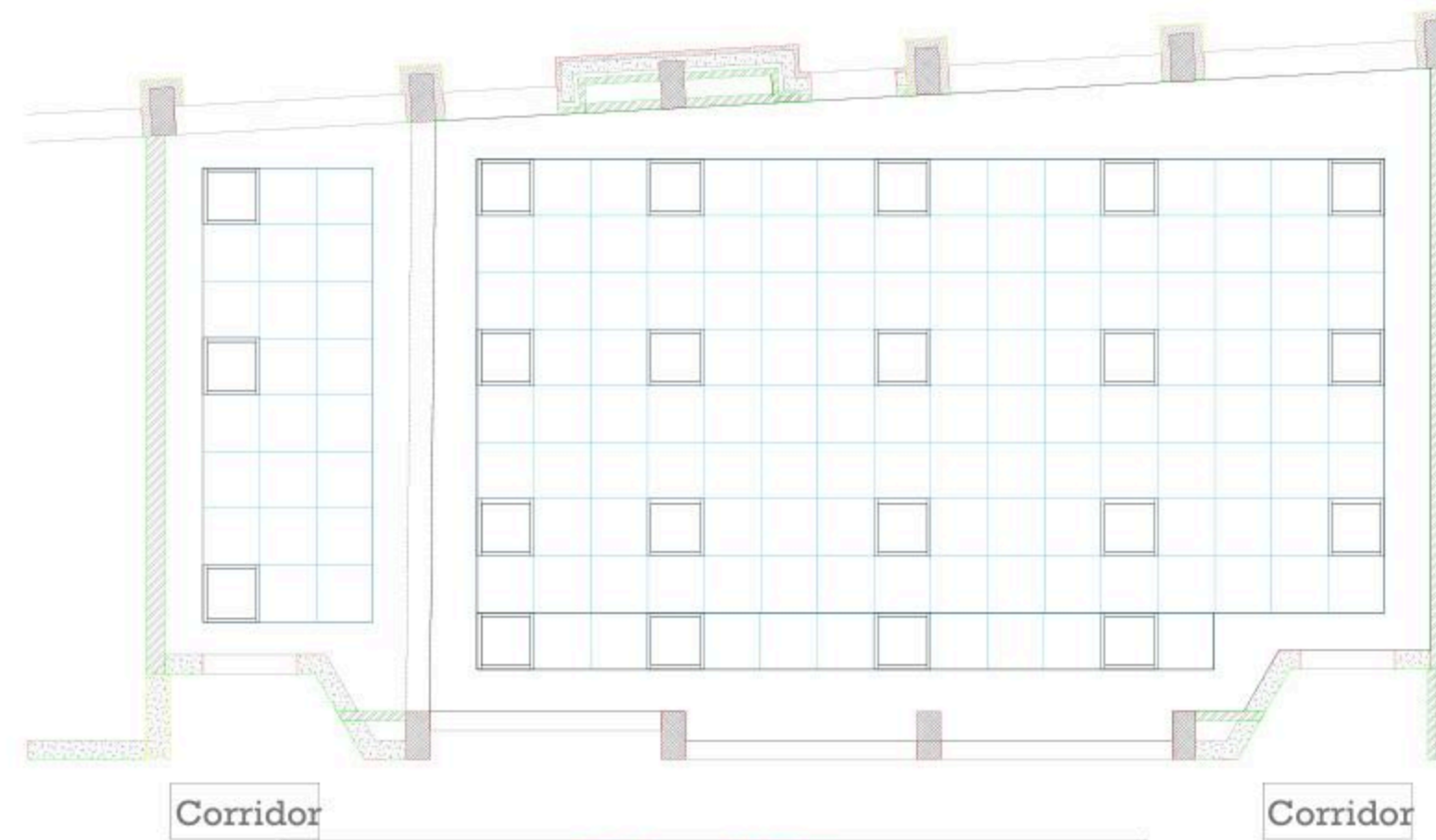
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

M05 Ceiling Plan

Date: 5/12/2025

Scale: 1:100



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شبكة كراسي وطاولات جاهز

December - 2025

Project Name
Public works contract FOR THE
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SCHOOLS IN THE WEST BANK”
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W Windows Number
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S.L. Sea Level	

Consultant



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Project Team

Team Leader	Arch. Malek Z. Murad
-------------	----------------------

Sheet No.	Sheet Title
E000	TITLES AND LEGEND

Date:	5/12/2025
Scale:	1:100

NO.	DESCRIPTION
E000	TITLE&LEGEND
E101	LIGHTING LAYOUT
E201	POWER LAYOUT
E301	LOW CURRENT LAYOUT
E401	POWER DIAGRAMS

SYMBOL	DESCRIPTION
A1	34W LED, 4500 LM, UGR 19, CRI 80, 4000K RECESS MOUNTED 60X60 CM MODULE WITH ALUMINIUM FRAME, PMMA OPAL DIFFUSER GALVANISED STEEL BACK PLATE COMPLETE WITH SEPARATE CONTROL GEAR CONVERTER MADE BY THE SAME FACTORY, IP40, IK03, 50000HR LED
A2	RECESS/SURFACE MOUNTED 3W LED EMERGENCY LIGHT 3HRS SELF-CONTAINED BATTERY, 100% LUMEN FACTOR IP20 SELF-TEST

SYMBOL	DESCRIPTION
	3-PIN,(1-PHASE) 16A SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	SOCKET ABOVE FALSE CEILING
	3-PIN,(1-PHASE) 16A SOCKET OUTLET RED COLOR CONNECTED TO UPS
	DITTO, BUT DOUBLE SOCKET OUTLET
	DITTO, BUT ABOVE FALSE CEILING
	5-PIN(3-PHASE) 16A SOCKET OUTLET
	20A AC SOCKET OUTLET
	ELECTRICAL BELL
	ELECTRIC BOX.
	WALL EXTRACT FAN
	IN-LINE EXTRACT FAN
	2-POLE ISOLATING SWITCH
	4-POLE ISOLATING SWITCH
	AC UNIT,OUTDOOR,INDOOR.
	CIRCUIT BREAKER,MCCB,MCCB
	EARTH LEAKAGE RELAY (RCD)
	AUTOMATIC TRANSFER SWITCH (ATS)
	HAND DRYER OUTLET
	HOT WATER CYLINDER
	WATER PUMP
	THERMOSTAT OUTLET
	FAN COIL UNIT
	CENTRIFUGAL EXTRACT FAN
	ONE-WAY SWITCH SINGLE POLE/ONE GANG,TWO GANG, THREE GANG,DOUBLE POLE SWITCH.
	TWO-WAY SINGLE POLE SWITCH/INTERMEDIATE, CROSS SWITCH
	SWITCH PANNEL
	PUSH BUTTON
	SHUTTER,DOOR MOTOR
	SHUTTER SWITCH UP/DN
	TELEPHONE SOCKET OUTLET
	RJ45 DATA SOCKET OUTLET
	WIRELESS ACCESS POINT-WI-FI
	SATELLITE SOCKET OUTLET
	INDOOR INTERCOM UNIT
	OUTDOOR INTERCOM UNIT
	ADSL ROUTER
	DOME CAMERA
	BOX CAMERA
	360°DOME CAMERA
	LOW VOLTAGE BOARD
	DATA RACK CABINET
	DISTRIBUTION BOARDS/MAIN,SUB

SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HEAT DETECTOR
	GAS DETECTOR
	MANUAL PULL STSTION/BREAK GLASS UNIT
	INDICATION LAMP
	INDOOR SIREN AUDIO ONLY
	OUTDOOR SIREN AUDIOVISUAL.
	CONTROL MODULE
	REPEATER PANEL
	FIRE ALARM CONTROL PANEL
	MOTION DETECTOR
	360° MOTION DETECTOR
	VIBRATION DETECTOR
	MAGNETIC CONTACTS
	HAND PANIC BUTTON
	FOOT PANIC BUTTON
	KEYBAD
	INTRUSION INDOOR SIREN AUDIO ONLY
	INTRUSION OUTDOOR SIREN AUDIOVISUAL.
	BURGLAR ALARM CONTROL PANEL
	PROXIMITY HID CARD READER
	DOOR LOCK
	REQUEST TO EXIT PUSH BUTTON
	SUPERVISORY MAGNETIC CONTACTS
	JUNCTION BOX
	ACCESS CONTROL PANEL
	TICKET DISPENSER UNIT (TDU)
	COUNTER DISPLAY UNIT (CDU)
	TELLER STATION UNIT (TSU)
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	HORN SPEAKER
	VOLUME CONTROL
	MIC SOCKET OUTLET
	MIC STATION
	PAVA RACK
	MULTI OUTLET WALL MOUNTED BOX,12/18 MODULE
	FLOOR MOUNTED MULTI OUTLET BOX,16 MODULE

GENERAL NOTES

- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.
- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.
- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.
- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.
- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).
- The height of the top edge of the power Distribution Board above FFL to be 180 cm.
- All panel boards shall be with doors, and shall be wether water proof in wet areas.
- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.
- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.
- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.
- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop Galvanized steel strips should not be less than 30*3mm Earth resistance measuring shall be carried before backfilling.

December - 2025

Project Name

Public works contract FOR THE
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Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W Windows Number
F.F.L. Finish Floor Level	D Doors Number
S.L. Sea Level	

Consultant



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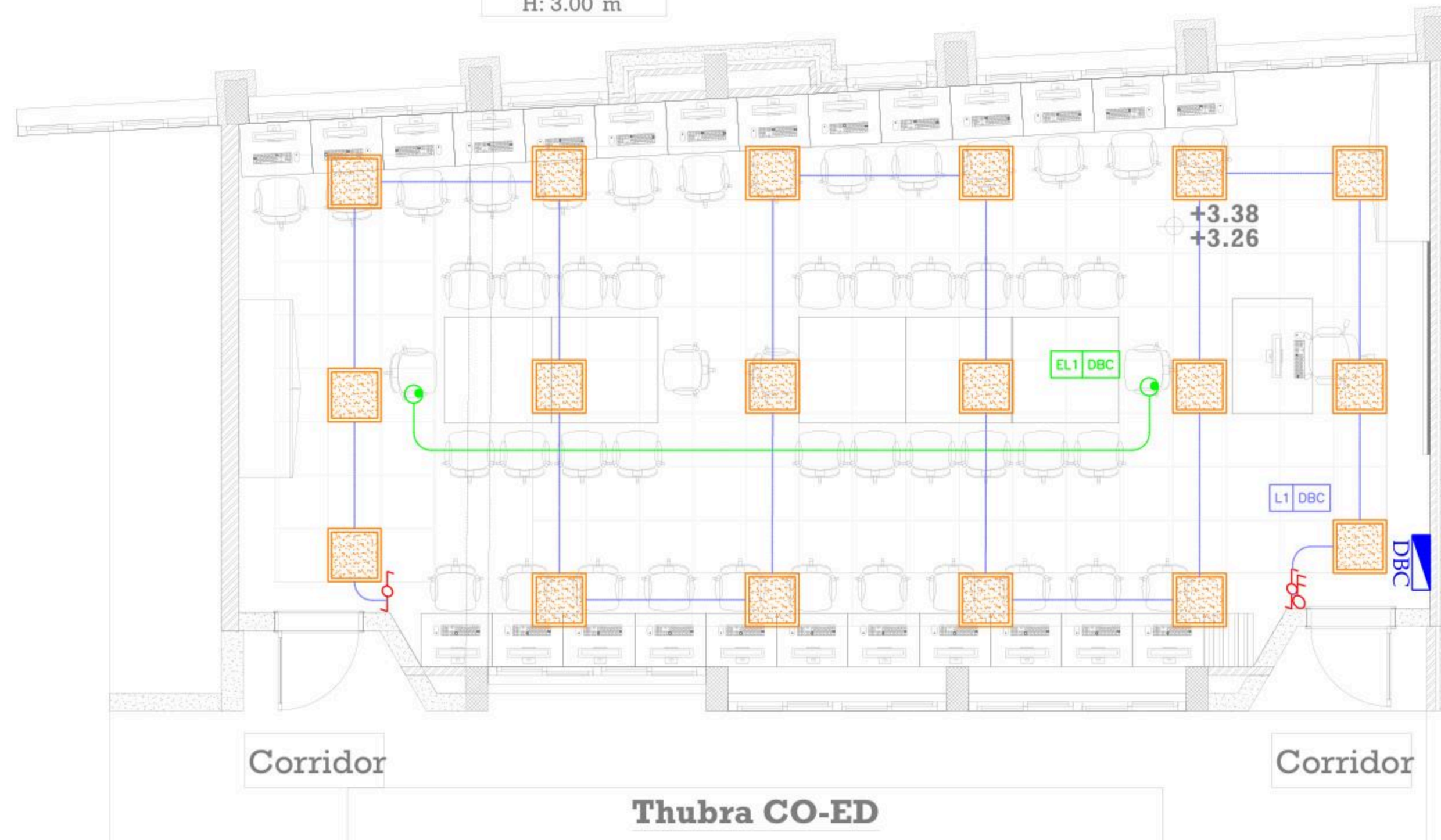
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT
Date:	5/12/2025
Scale:	1:100

Technology Lab

G04
A: 69.54 m ²
P: 36.59 m
H: 3.00 m



شبكة كراسي وطاولات جاهز
وحدات انارة 4

December - 2025

Project Name
**Public works contract FOR THE
REHABILITATION AND/OR
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Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E201	POWER LAYOUT

Date: 5/12/2025
Scale: 1:100

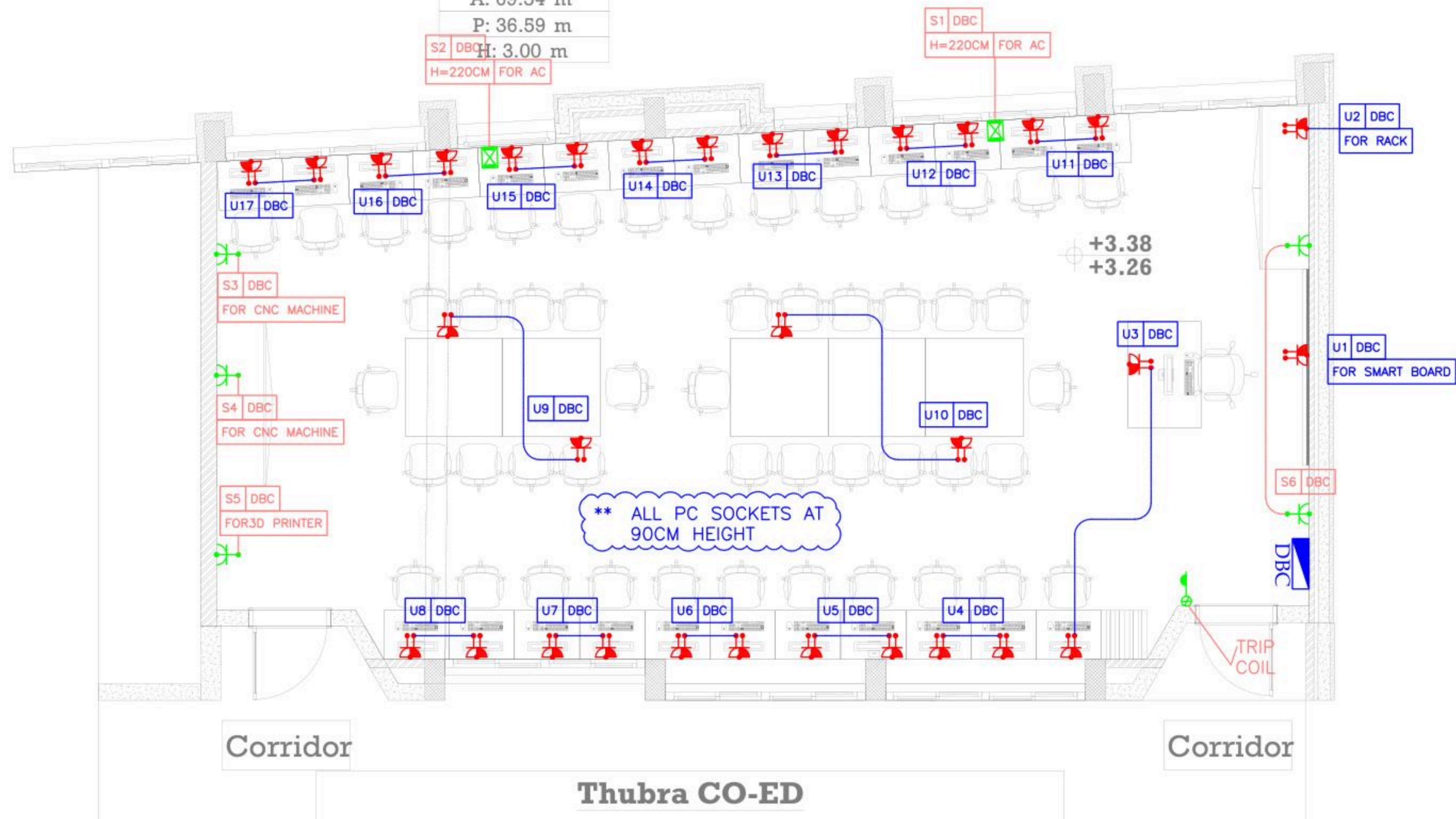
Technology Lab

G04

A: 69.54 m²

P: 36.59 m

H: 3.00 m



شبكة كراسي وطاولات جاهز
وحدات انارة 4

December - 2025

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Lot 1



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Consultant



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Project Team

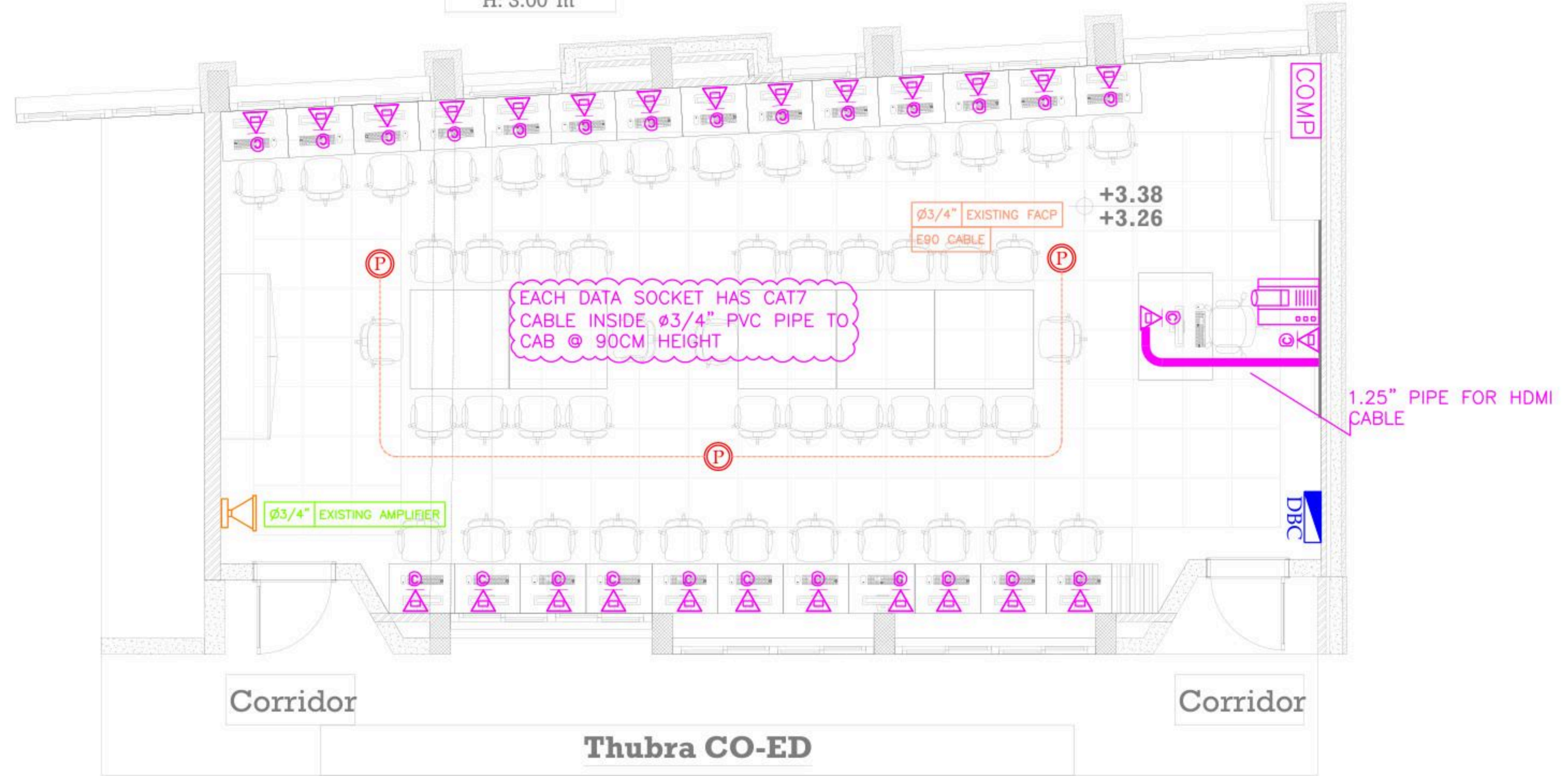
Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E301	LOW CURRENT LAYOUT

Date: 5/12/2025
Scale: 1:100

Technology Lab

G04
A: 69.54 m ²
P: 36.59 m
H: 3.00 m



شبكة كراسي وطاولات جاهز
وحدات انارة 4

December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK
 Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

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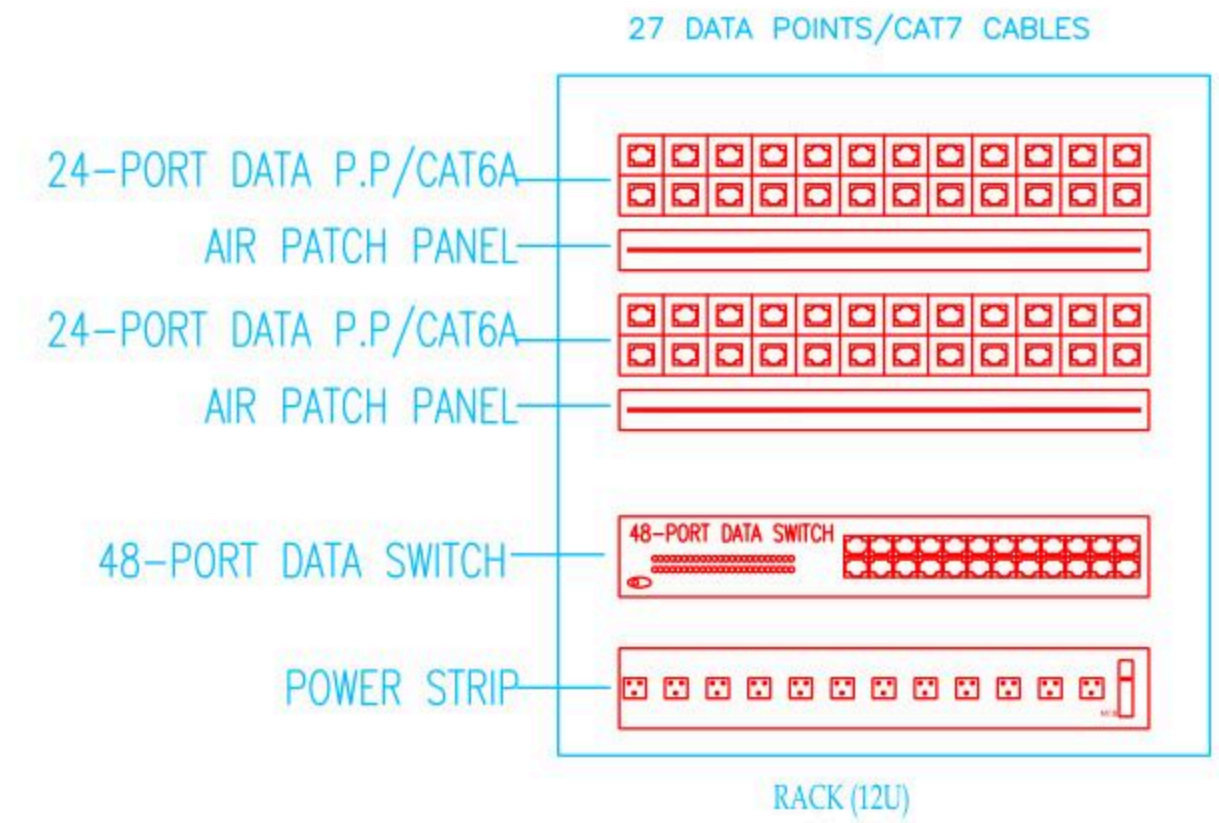
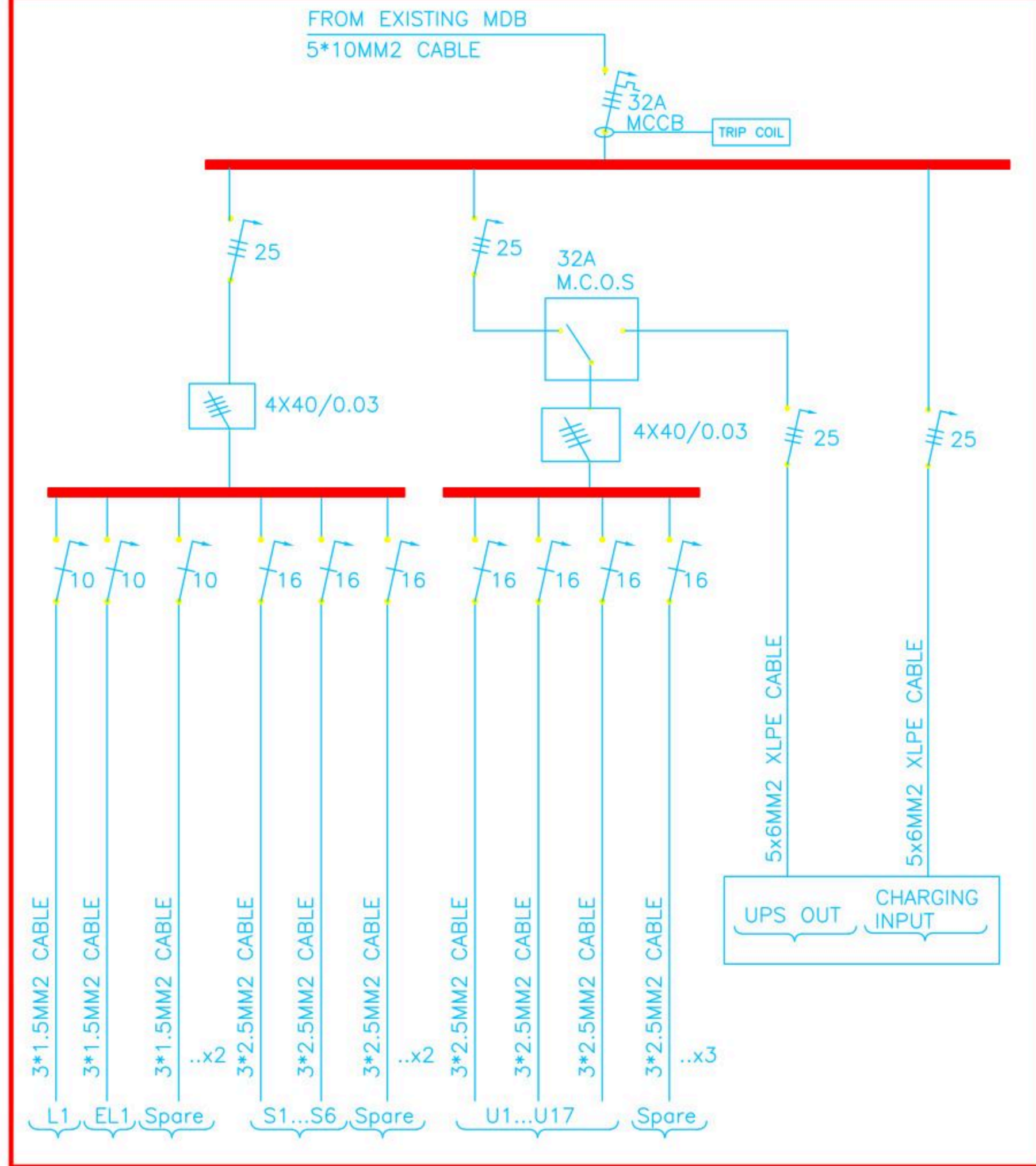
Project Team

Team Leader	Arch. Malek Z. Murad
-------------	----------------------

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date:	5/12/2025
Scale:	1:100

BOARD NAME: DBC





Belgium
partner in development

Rehabilitation and/or creation of STEM Labs in schools in the West Bank

Lot 1 Southern Governorates

Marah Rabah

Consultant

Implemented By



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Website:	www.arabengineers-Pal.com		



REVISION [01]

Wednesday, December 5, 2025

December - 2025

Project Name

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Contracting Authority

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Designer



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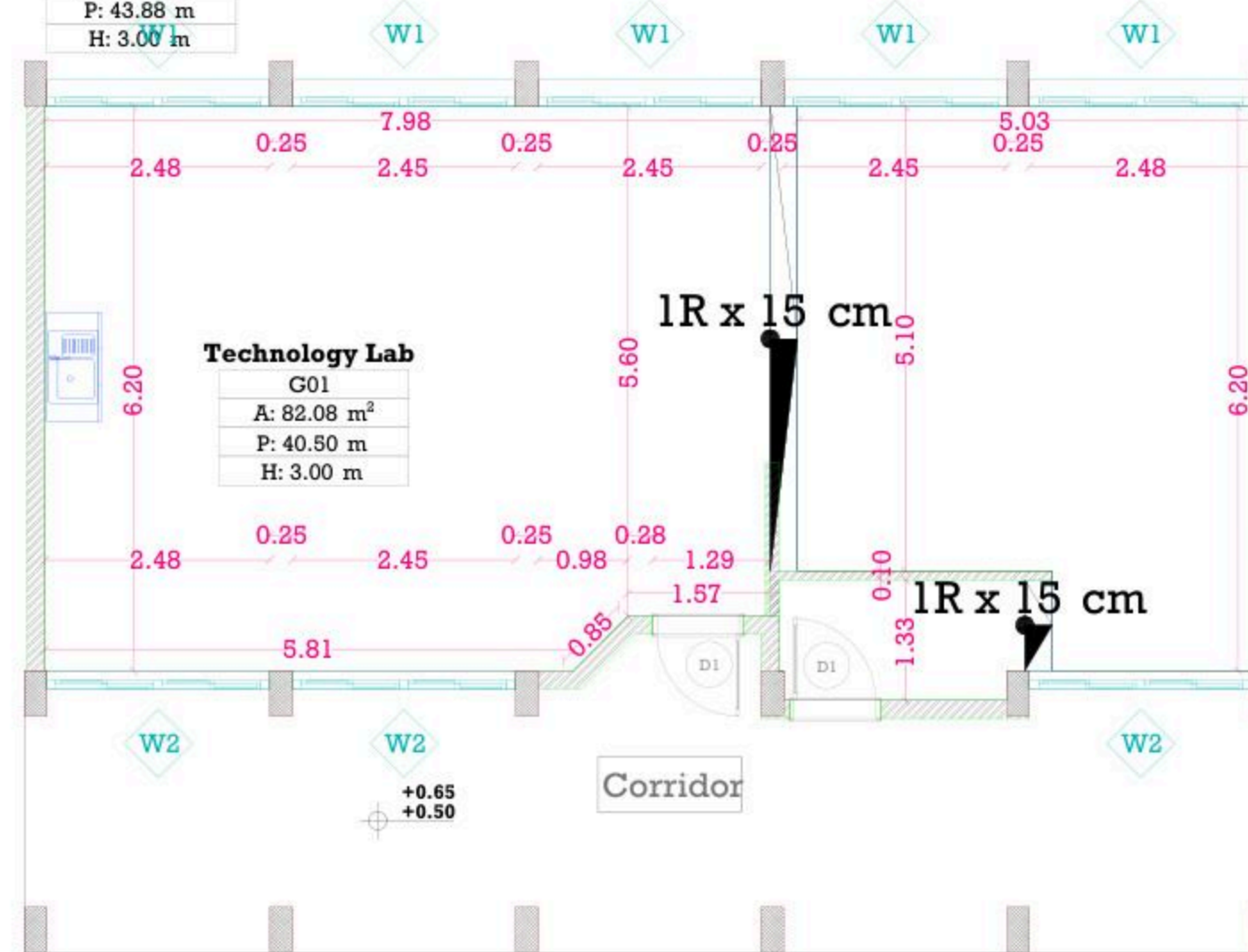
A01 Existing Plan

Date: 5/12/2025

Scale: 1:100

Technology Lab

G06
A: 81.83 m²
P: 43.88 m
H: 3.00 m



Marah Rabah

December - 2025

Project Name

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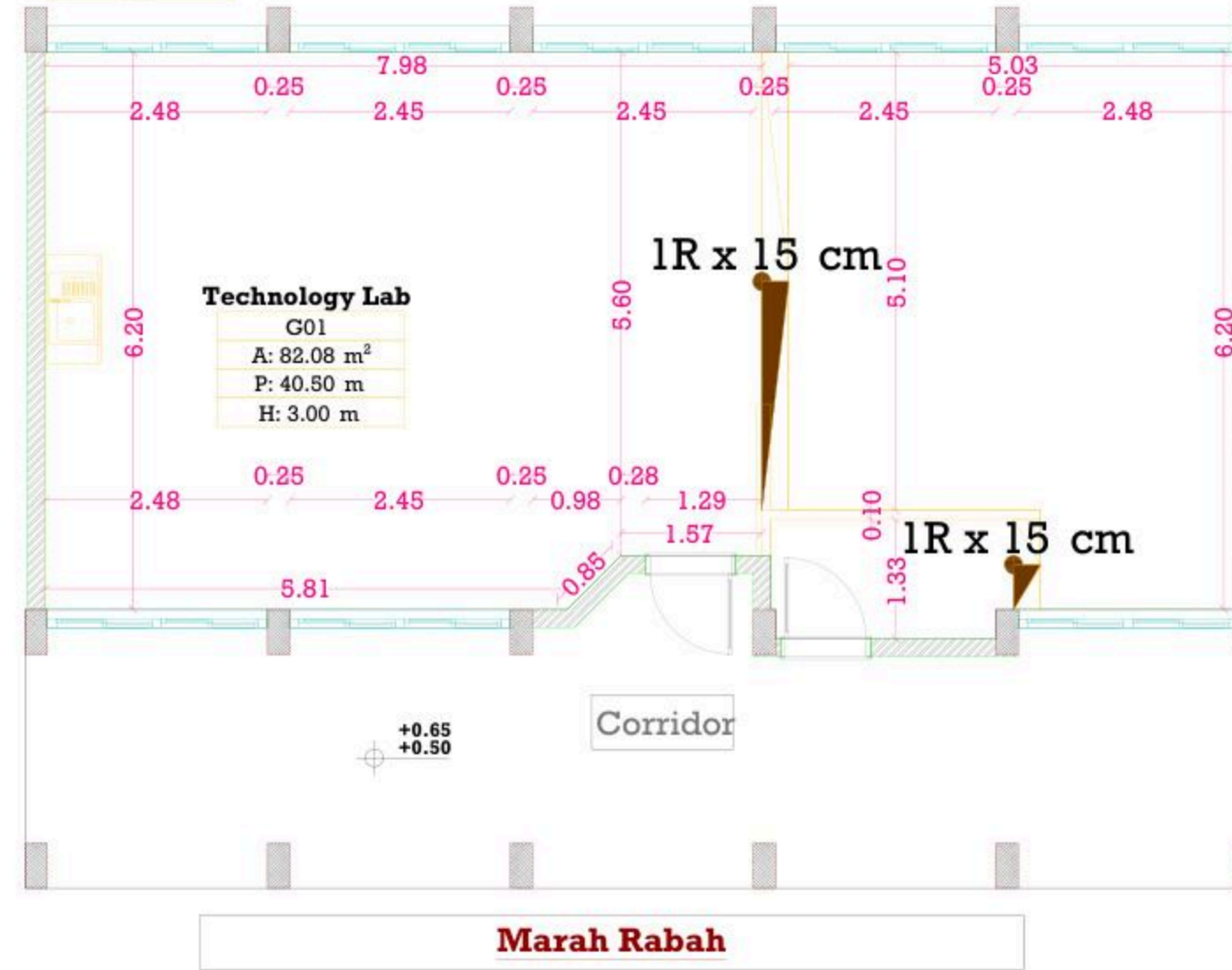
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A02	Demolition Plan
Date:	5/12/2025
Scale:	1:100

Technology Lab

G06
A: 81.83 m²
P: 43.88 m
H: 3.00 m



December - 2025

Project Name

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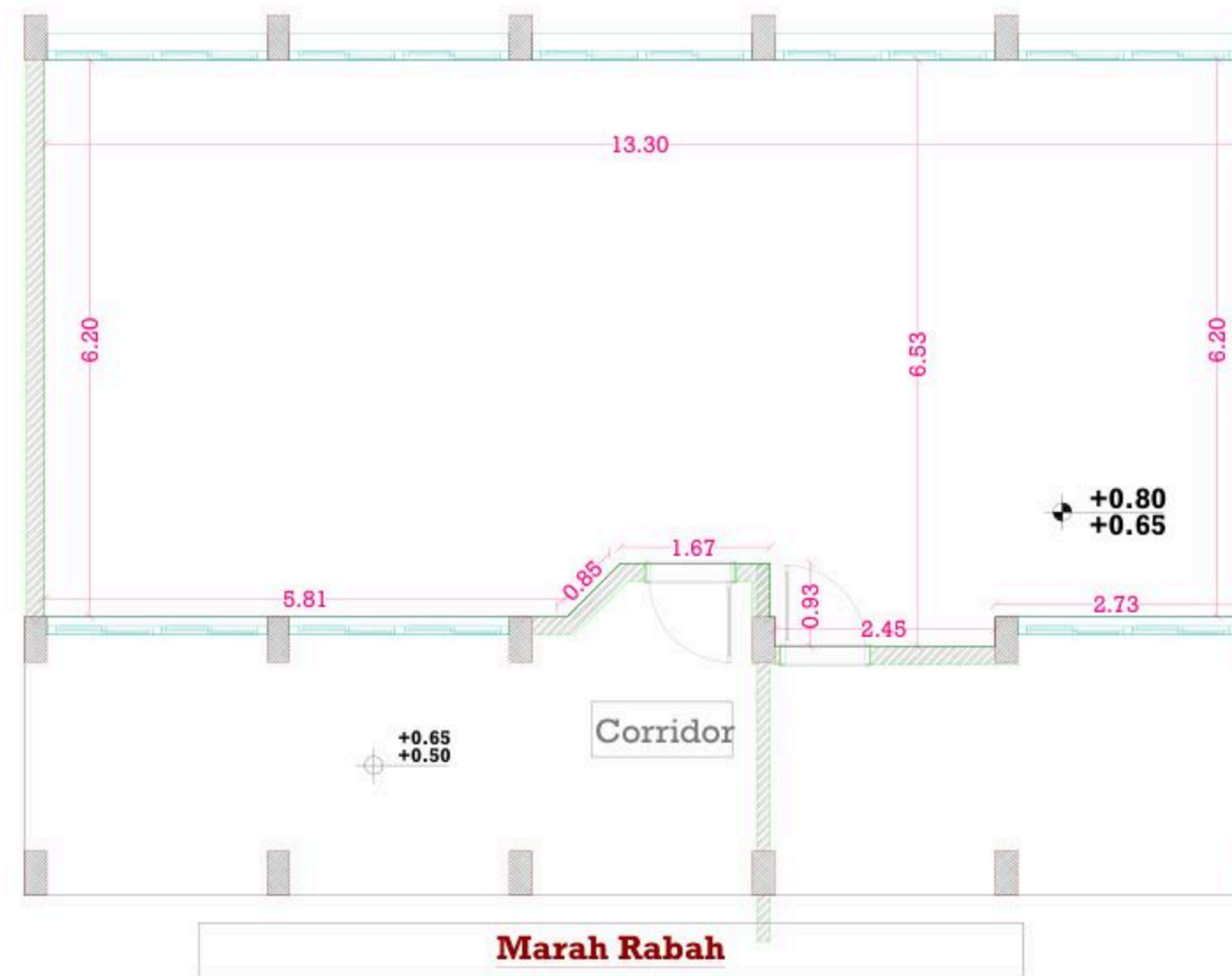
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

A03 Dimension Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

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Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



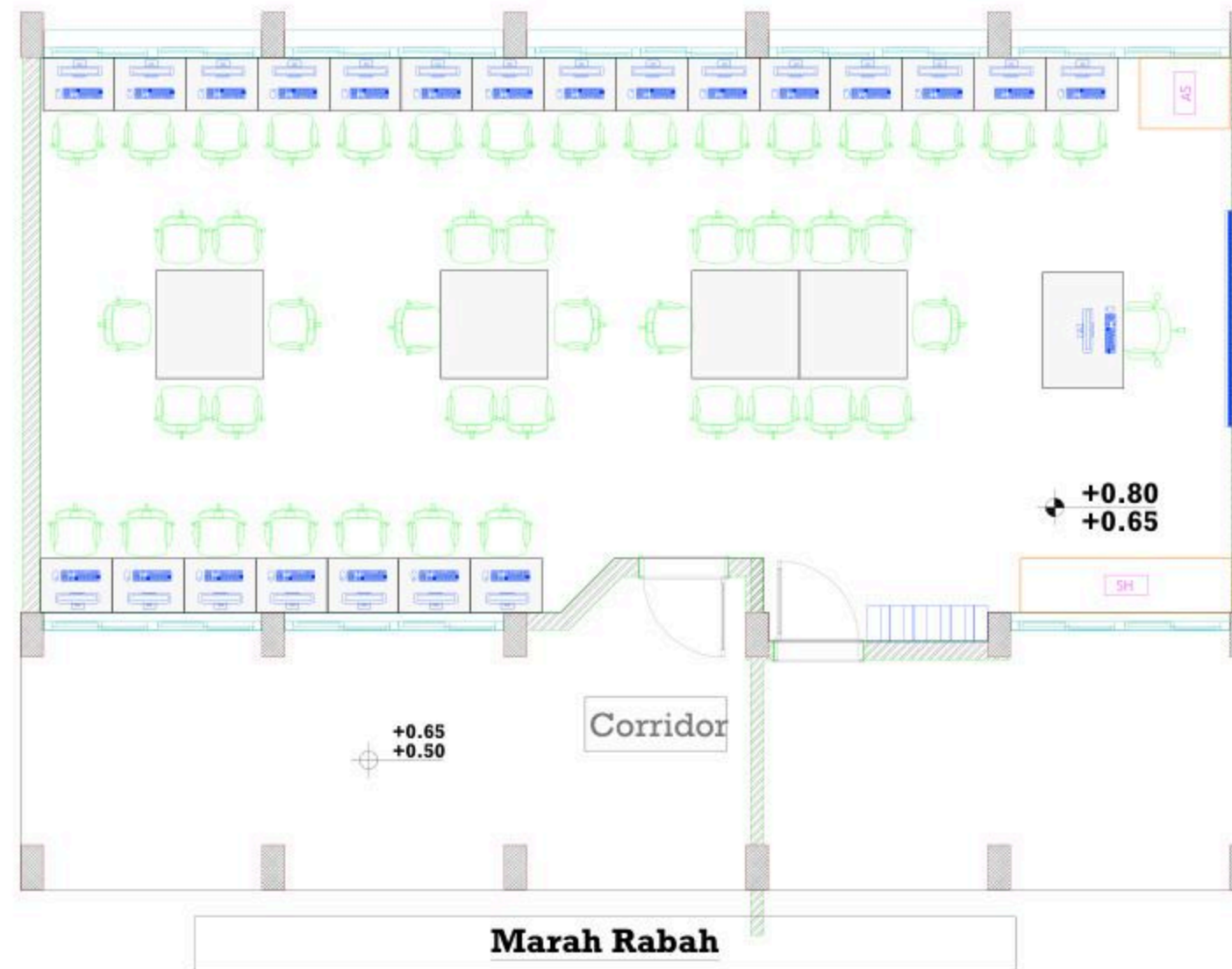
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A04	Furniture Plan

Date:	5/12/2025
Scale:	1:100



22 computers
22 STEM

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK”
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

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Shear Walls	Detail Number
Concrete	Finish Floor Level
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Designer

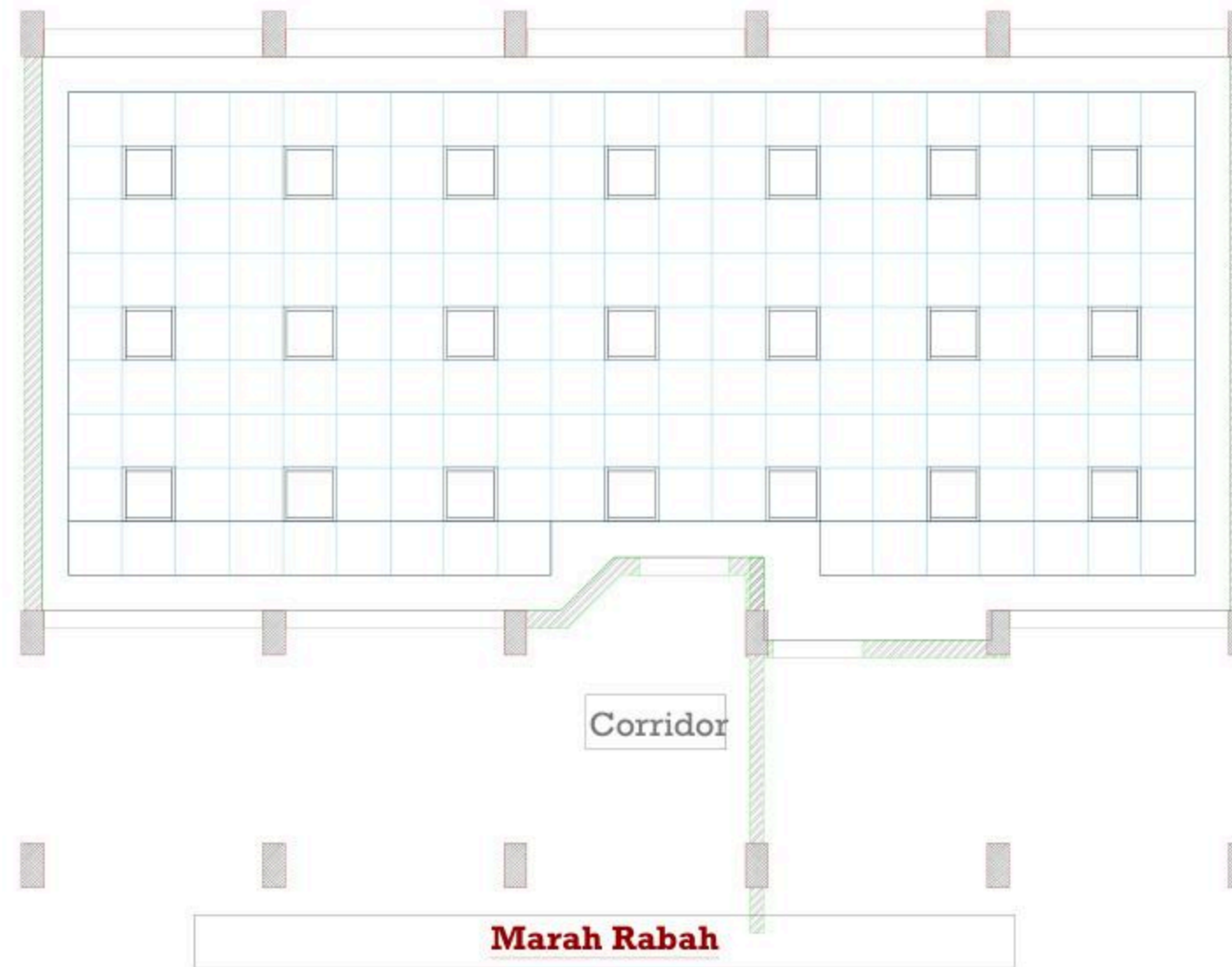


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A05	Ceiling Plan
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

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Concrete	Finish Floor Level
Cement Block	R.C. Level
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F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



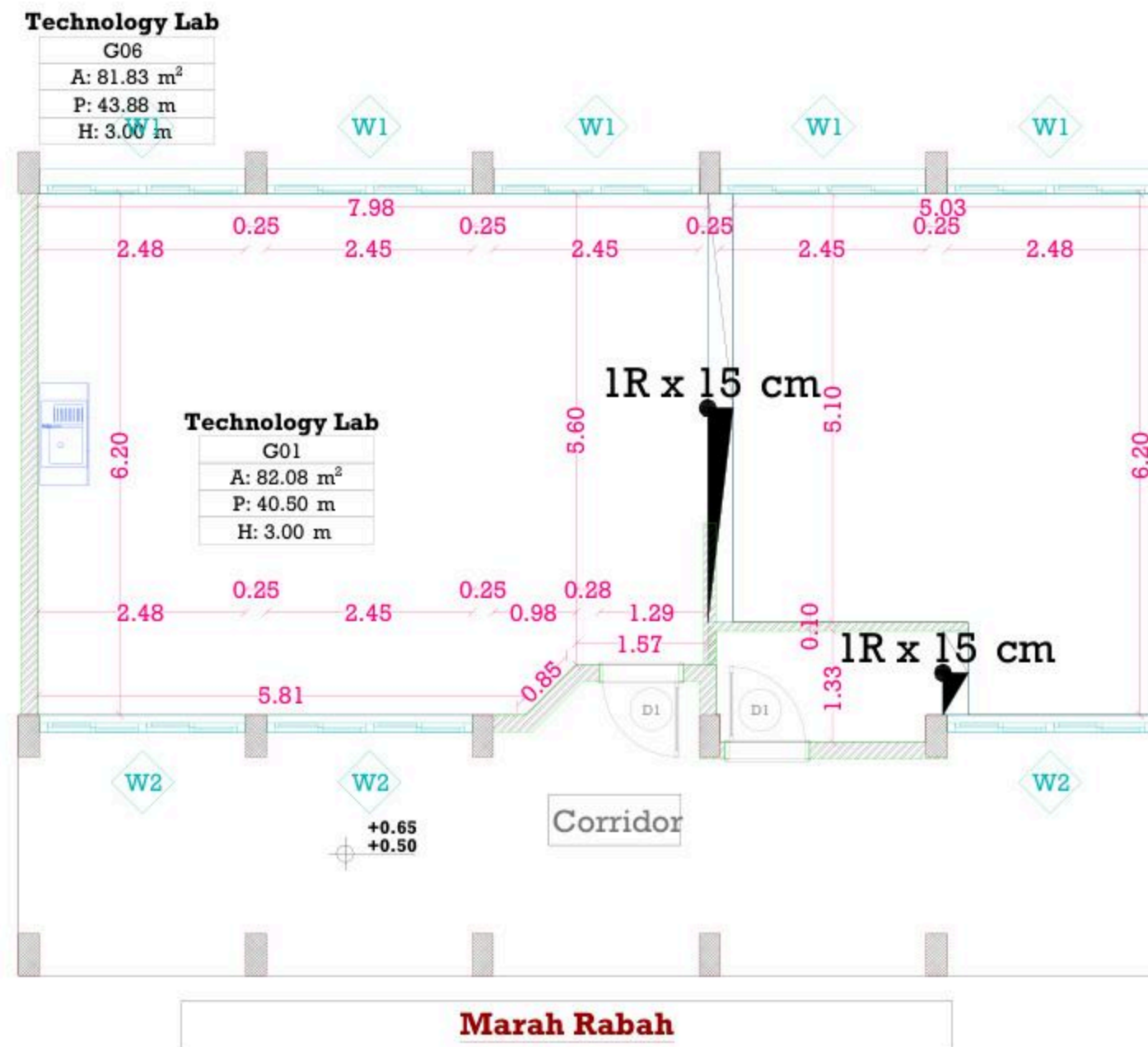
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M01	Existing Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

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Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
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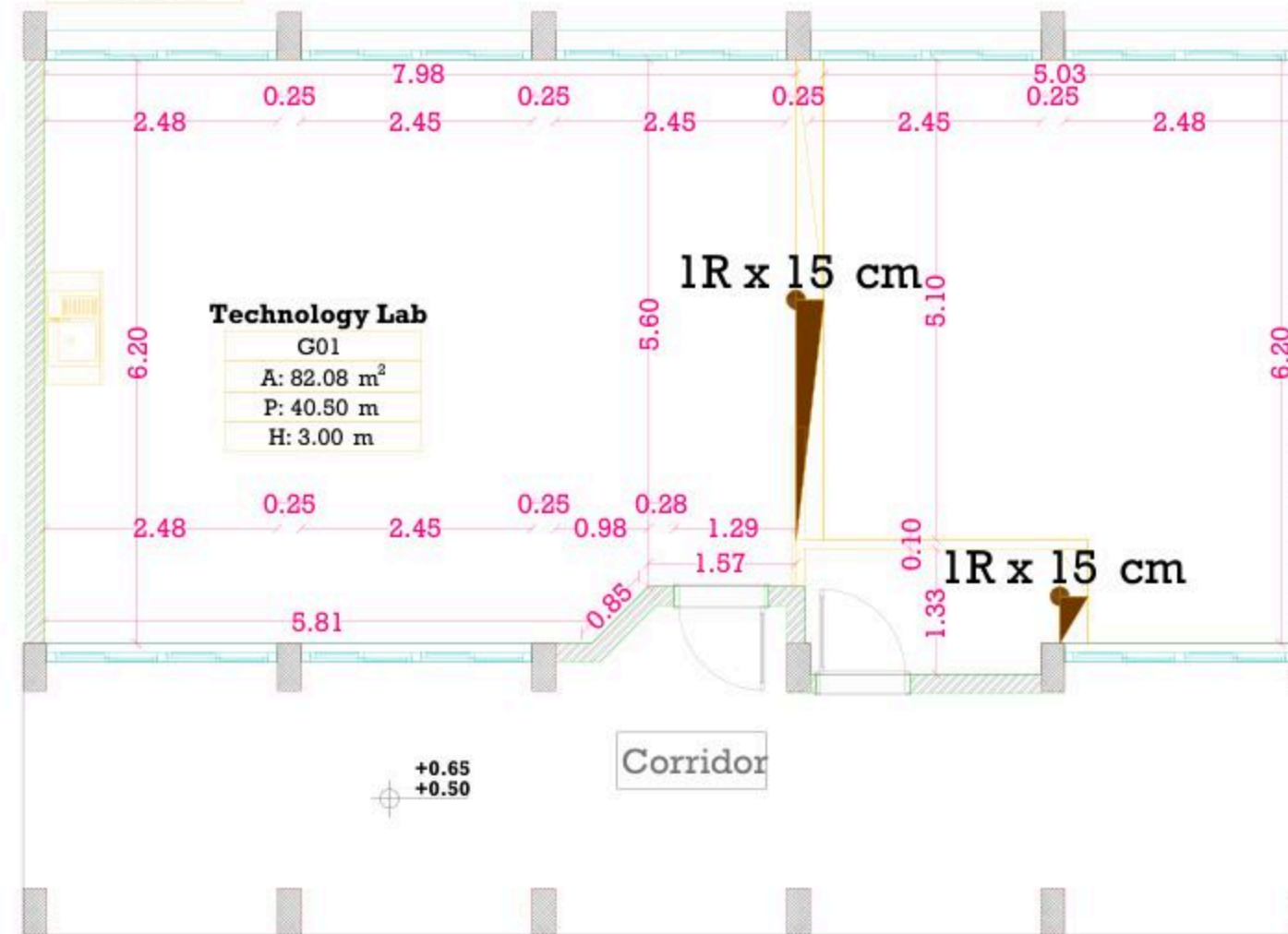
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M02	Demolition Plan
Date:	5/12/2025
Scale:	1:100

Technology Lab

G06
A: 81.83 m ²
P: 43.88 m
H: 3.00 m



Marah Rabah

December - 2025

Project Name

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Designer



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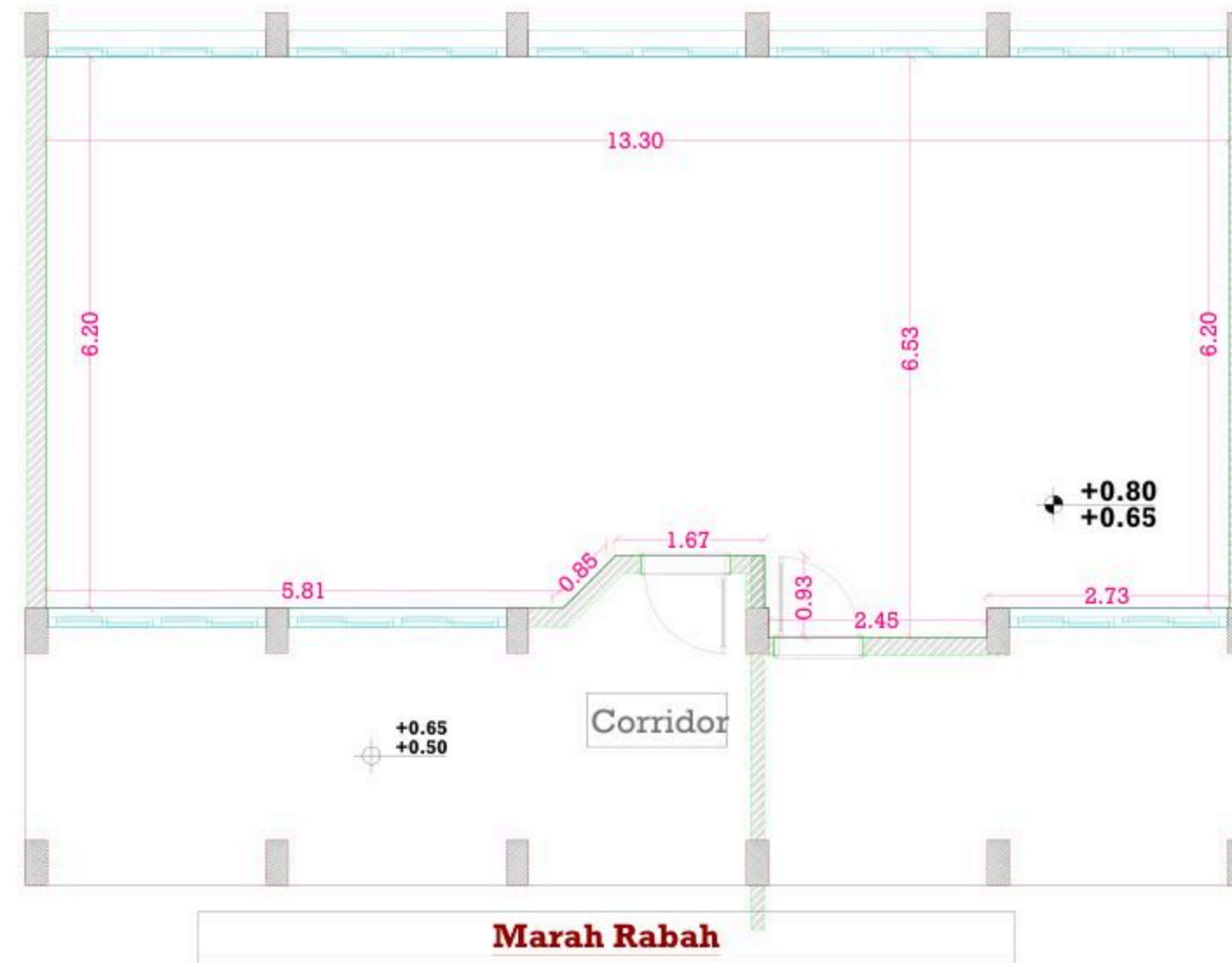
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

M03 Dimension Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

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Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
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S.L. Sea Level	

Designer



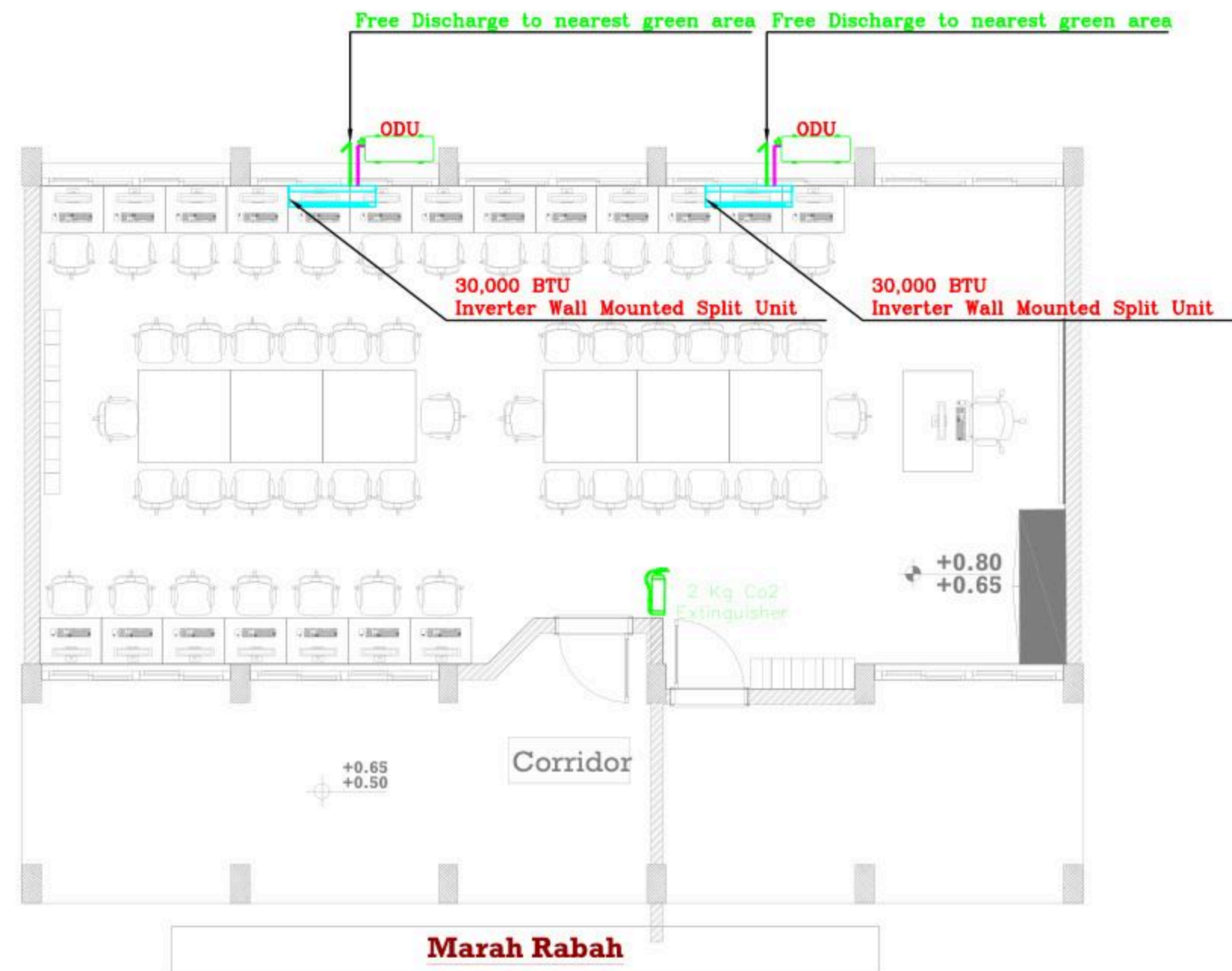
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M04	Furniture Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

**Public works contract FOR THE
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Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

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Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W1 Windows Number
F.F.L. Finish Floor Level	D1 Doors Number
S.L. Sea Level	

Designer



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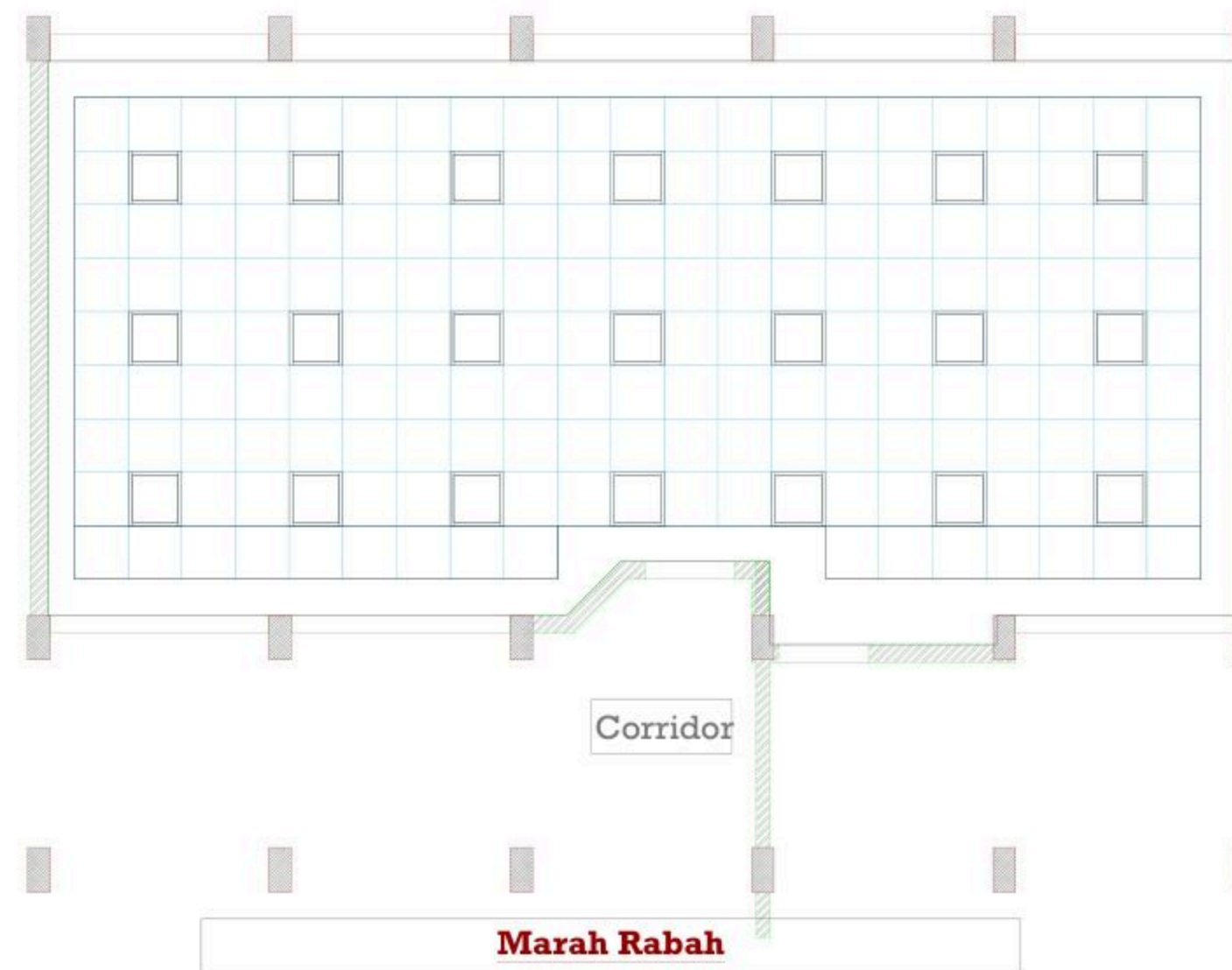
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M05	Ceiling Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
CREATION OF STEM LABS IN
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Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	Rein. Concrete Level		Windows Number
	Finish Floor Level		Doors Number
	Sea Level		

Consultant



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Project Team

Team Leader	Arch. Malek Z. Murad
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Sheet No.	Sheet Title
E000	TITLES AND LEGEND

Date:	5/12/2025
Scale:	1:100

NO.	DESCRIPTION
E000	TITLE&LEGEND
E101	LIGHTING LAYOUT
E201	POWER LAYOUT
E301	LOW CURRENT LAYOUT
E401	POWER DIAGRAMS

SYMBOL	DESCRIPTION
A1	34W LED, 4500 LM, UGR 19, CRI 80, 4000K RECESS MOUNTED 60X60 CM MODULE WITH ALUMINIUM FRAME, PMMA OPAL DIFFUSER GALVANISED STEEL BACK PLATE COMPLETE WITH SEPARATE CONTROL GEAR CONVERTER MADE BY THE SAME FACTORY, IP40, IK03, 50000HR LED
A2	RECESS/SURFACE MOUNTED 3W LED EMERGENCY LIGHT 3HRS SELF-CONTAINED BATTERY, 100% LUMEN FACTOR IP20 SELF-TEST

SYMBOL	DESCRIPTION
	3-PIN,(1-PHASE) 16A SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	SOCKET ABOVE FALSE CEILING
	3-PIN,(1-PHASE) 16A SOCKET OUTLET RED COLOR CONNECTED TO UPS
	DITTO, BUT DOUBLE SOCKET OUTLET
	DITTO, BUT ABOVE FALSE CEILING
	5-PIN(3-PHASE) 16A SOCKET OUTLET
	20A AC SOCKET OUTLET
	ELECTRICAL BELL
	ELECTRIC BOX.
	WALL EXTRACT FAN
	IN-LINE EXTRACT FAN
	2-POLE ISOLATING SWITCH
	4-POLE ISOLATING SWITCH
	AC UNIT,OUTDOOR,INDOOR.
	CIRCUIT BREAKER,MCB,MCCB
	EARTH LEAKAGE RELAY (RCD)
	AUTOMATIC TRANSFER SWITCH (ATS)
	HAND DRYER OUTLET
	HOT WATER CYLINDER
	WATER PUMP
	THERMOSTAT OUTLET
	FAN COIL UNIT
	CENTRIFUGAL EXTRACT FAN
	ONE-WAY SWITCH SINGLE POLE/ONE GANG,TWO GANG, THREE GANG,DOUBLE POLE SWITCH.
	TWO-WAY SINGLE POLE SWITCH/INTERMEDIATE, CROSS SWITCH
	SWITCH PANNEL
	PUSH BUTTON
	SHUTTER,DOOR MOTOR
	SHUTTER SWITCH UP/DN
	TELEPHONE SOCKET OUTLET
	RJ45 DATA SOCKET OUTLET
	WIRELESS ACCESS POINT-WI-FI
	SATELLITE SOCKET OUTLET
	INDOOR INTERCOM UNIT
	OUTDOOR INTERCOM UNIT
	ADSL ROUTER
	DOME CAMERA
	BOX CAMERA
	360°DOME CAMERA
	LOW VOLTAGE BOARD
	DATA RACK CABINET
	DISTRIBUTION BOARDS/MAIN,SUB

SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HEAT DETECTOR
	GAS DETECTOR
	MANUAL PULL STSTION/BREAK GLASS UNIT
	INDICATION LAMP
	INDOOR SIREN AUDIO ONLY
	OUTDOOR SIREN AUDIOVISUAL.
	CONTROL MODULE
	REPEATER PANEL
	FIRE ALARM CONTROL PANEL
	MOTION DETECTOR
	360° MOTION DETECTOR
	VIBRATION DETECTOR
	MAGNETIC CONTACTS
	HAND PANIC BUTTON
	FOOT PANIC BUTTON
	KEYBAD
	INTRUSION INDOOR SIREN AUDIO ONLY
	INTRUSION OUTDOOR SIREN AUDIOVISUAL.
	BURGLAR ALARM CONTROL PANEL
	PROXIMITY HID CARD READER
	DOOR LOCK
	REQUEST TO EXIT PUSH BUTTON
	SUPERVISORY MAGNETIC CONTACTS
	JUNCTION BOX
	ACCESS CONTROL PANEL
	TICKET DISPENSER UNIT (TDU)
	COUNTER DISPLAY UNIT (CDU)
	TELLER STATION UNIT (TSU)
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	HORN SPEAKER
	VOLUME CONTROL
	MIC SOCKET OUTLET
	MIC STATION
	PAVA RACK
	MULTI OUTLET WALL MOUNTED BOX,12/18 MODULE
	FLOOR MOUNTED MULTI OUTLET BOX,16 MODULE

GENERAL NOTES
1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.
2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.
3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.
4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.
5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).
6-The height of the top edge of the power Distribution Board above FFL to be 180 cm.
7-All panel boards shall be with doors, and shall be wether water proof in wet areas.
8-The main C.Bs shall be air insulated, adjustable, with magnetic and thermal protection, and have a min. rupturing capacity of 25 k.A.
9-The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.
11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.
13- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop Galvanized steel strips should not be less than 30*3mm Earth resistance measuring shall be carried before backfilling.

December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L. Rein. Concrete Level		Windows Number
	F.F.L. Finish Floor Level		Doors Number
	S.L. Sea Level		

Consultant



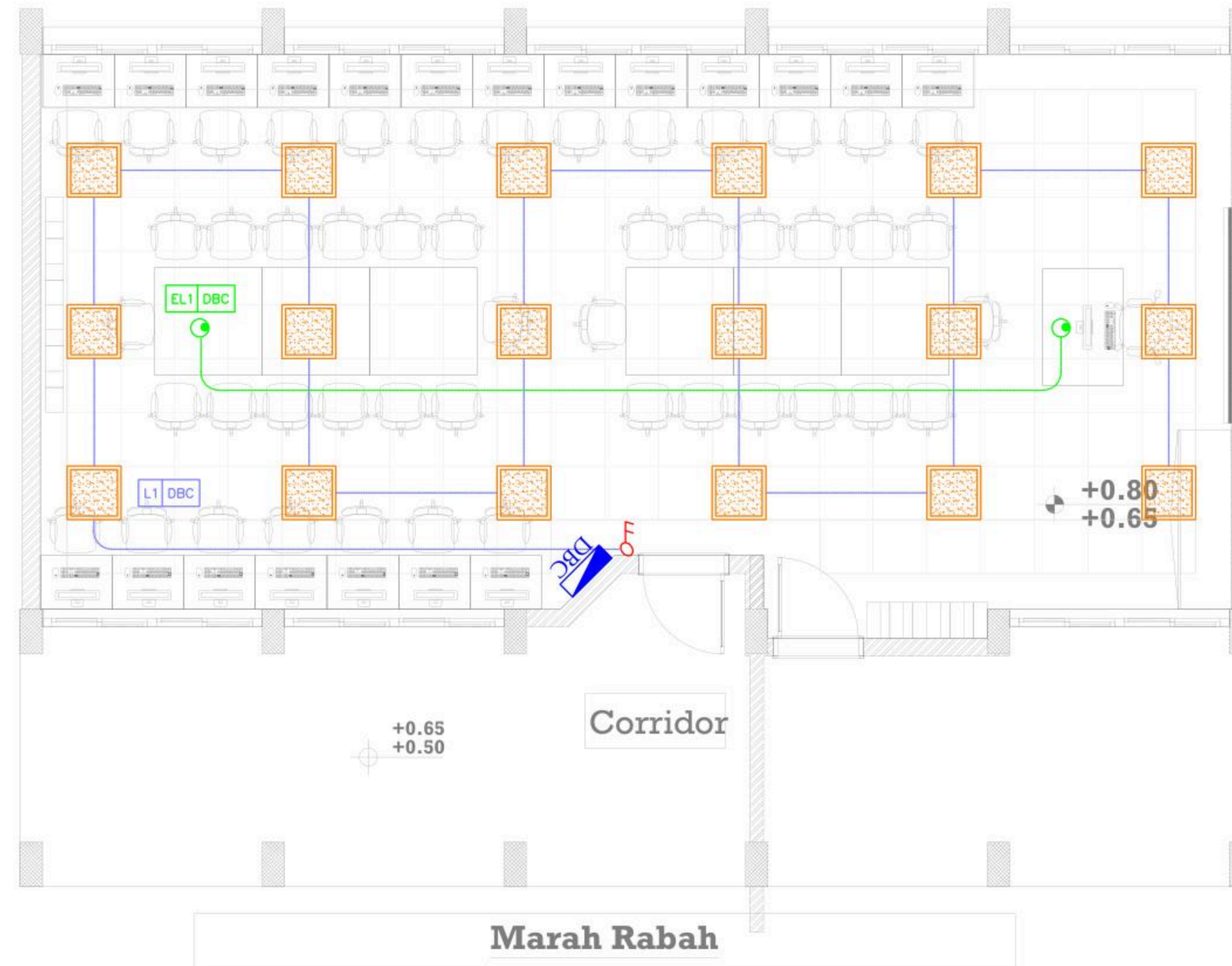
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
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Consultant

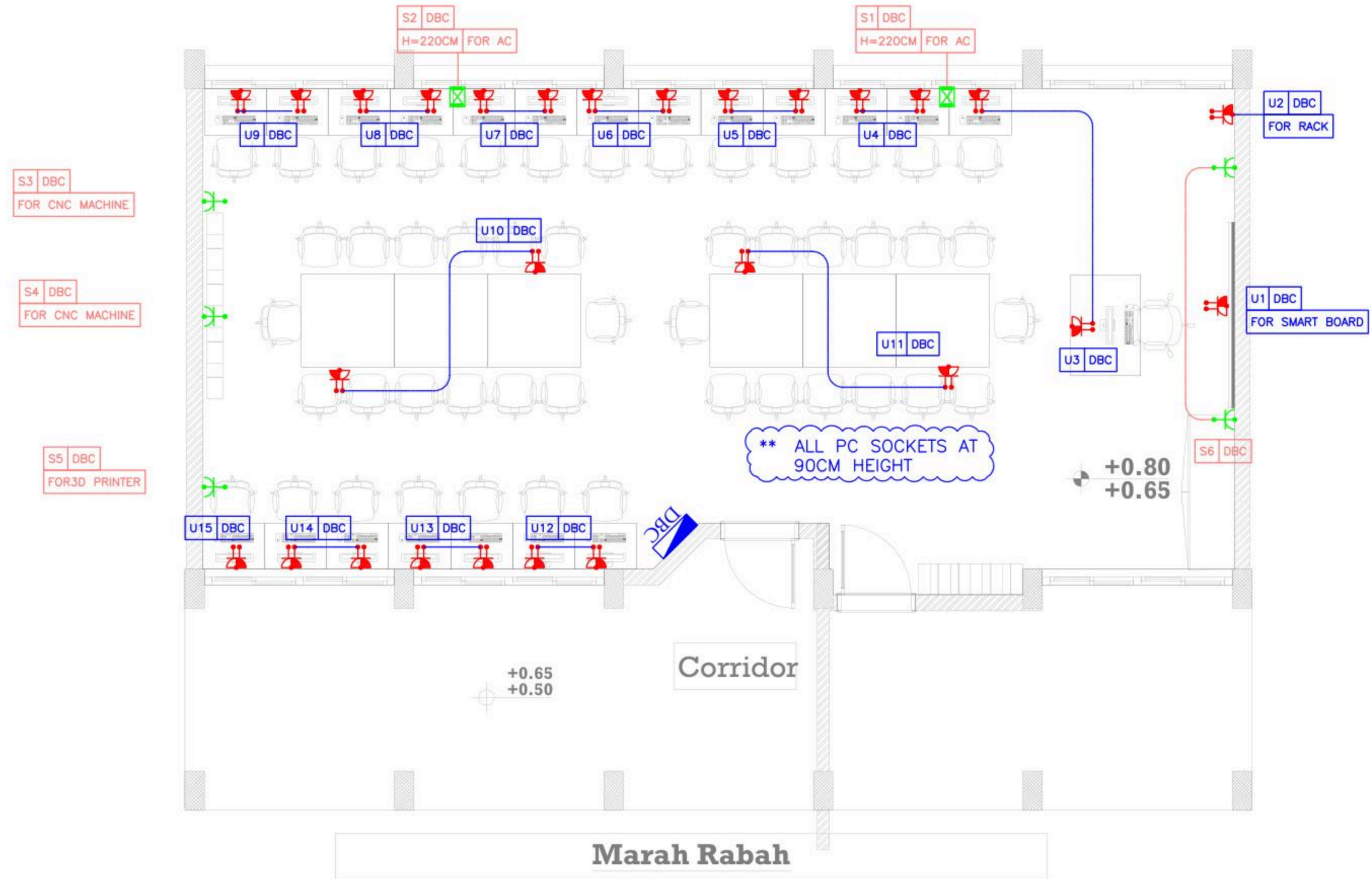


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E201	POWER LAYOUT
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name
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Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

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Concrete	Finish Floor Level
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Natural Stone	Level On Plan
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F.F.L. Finish Floor Level	D2 Doors Number
S.L. Sea Level	

Consultant

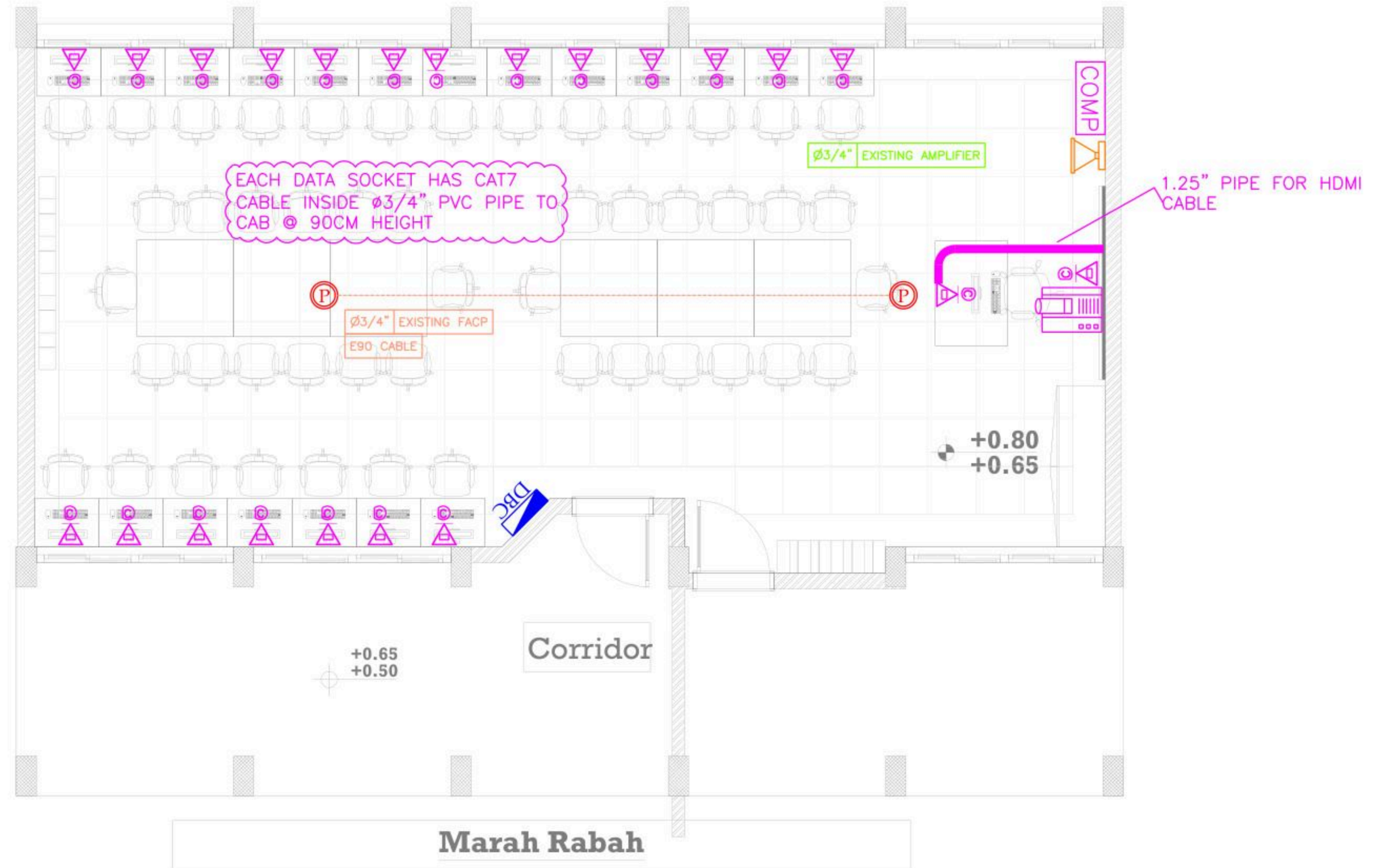


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Project Team

Team Leader	Arch. Malek Z. Murad
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Sheet No.	Sheet Title
E301	LOW CURRENT LAYOUT
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
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 Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

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Consultant



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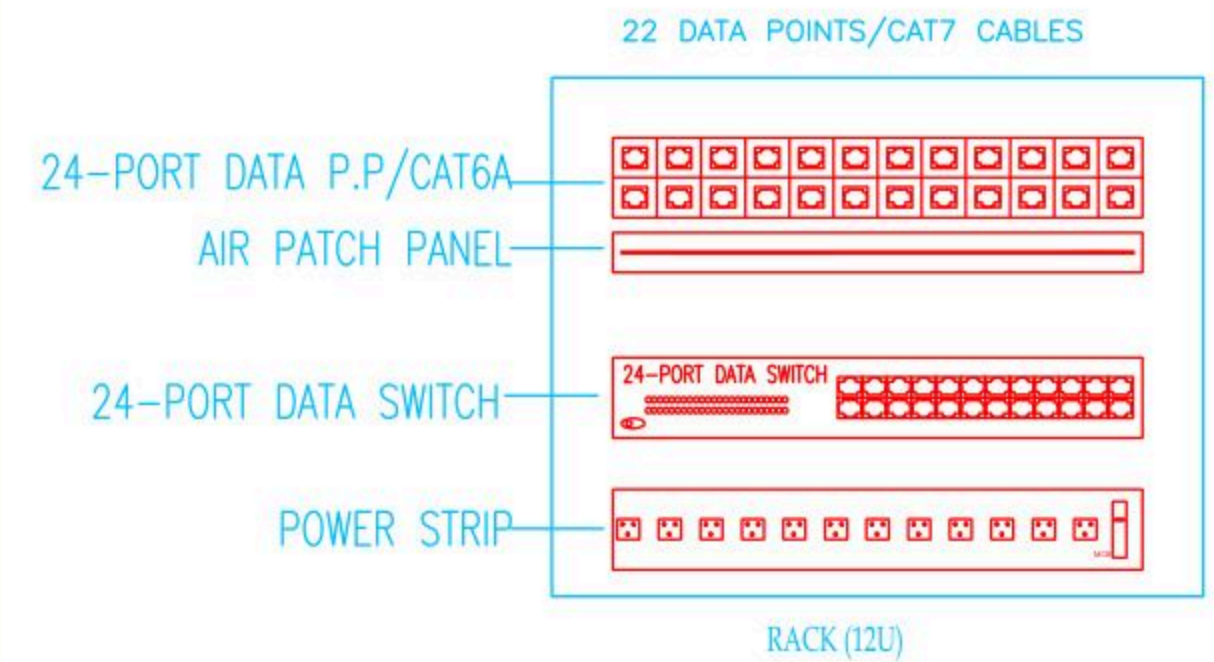
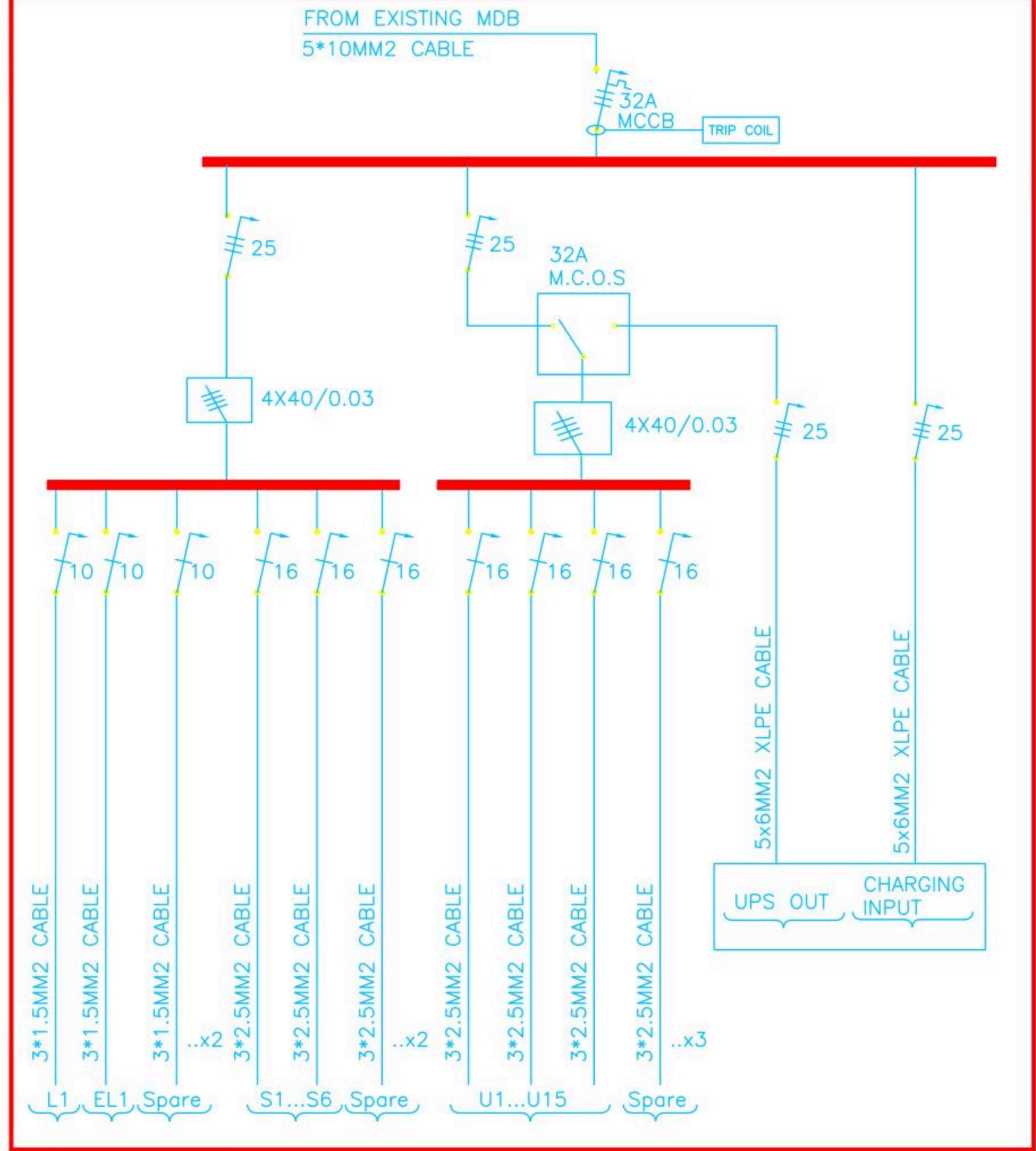
Project Team

Team Leader	Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date:	5/12/2025
Scale:	1:100

BOARD NAME: DBC





Belgium
partner in development

Rehabilitation and/or creation of STEM Labs in schools in the West Bank

Lot 1 Southern Governorates

Hussan Sec.

Consultant

Implemented By



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REVISION [01]

Wednesday, December 5, 2025

December - 2025

Project Name

**Public works contract FOR THE
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Contracting Authority

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Designer

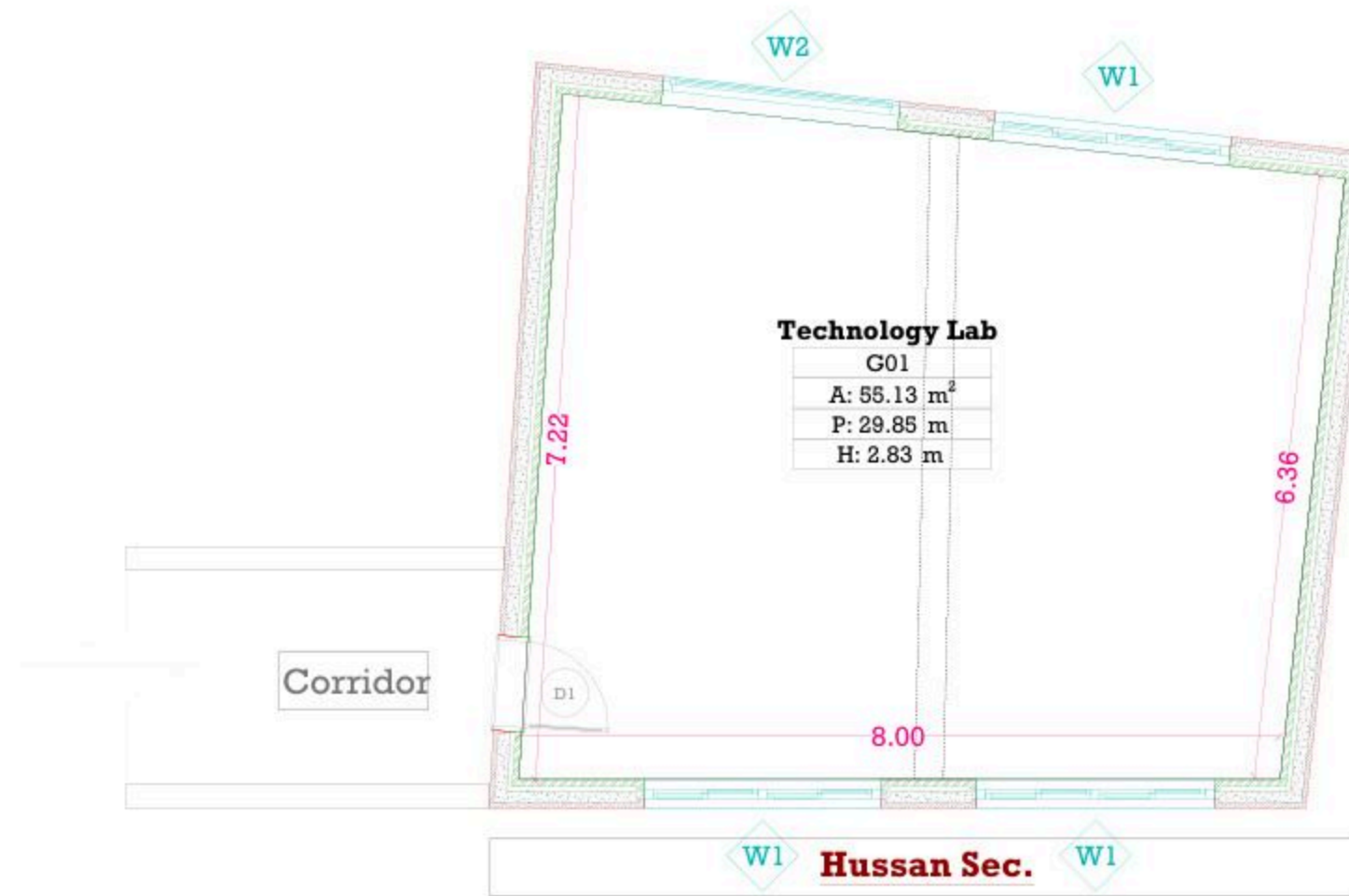


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Sheet No.	Sheet Title
A01	Existing Plan
Date:	5/12/2025
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December - 2025

Project Name

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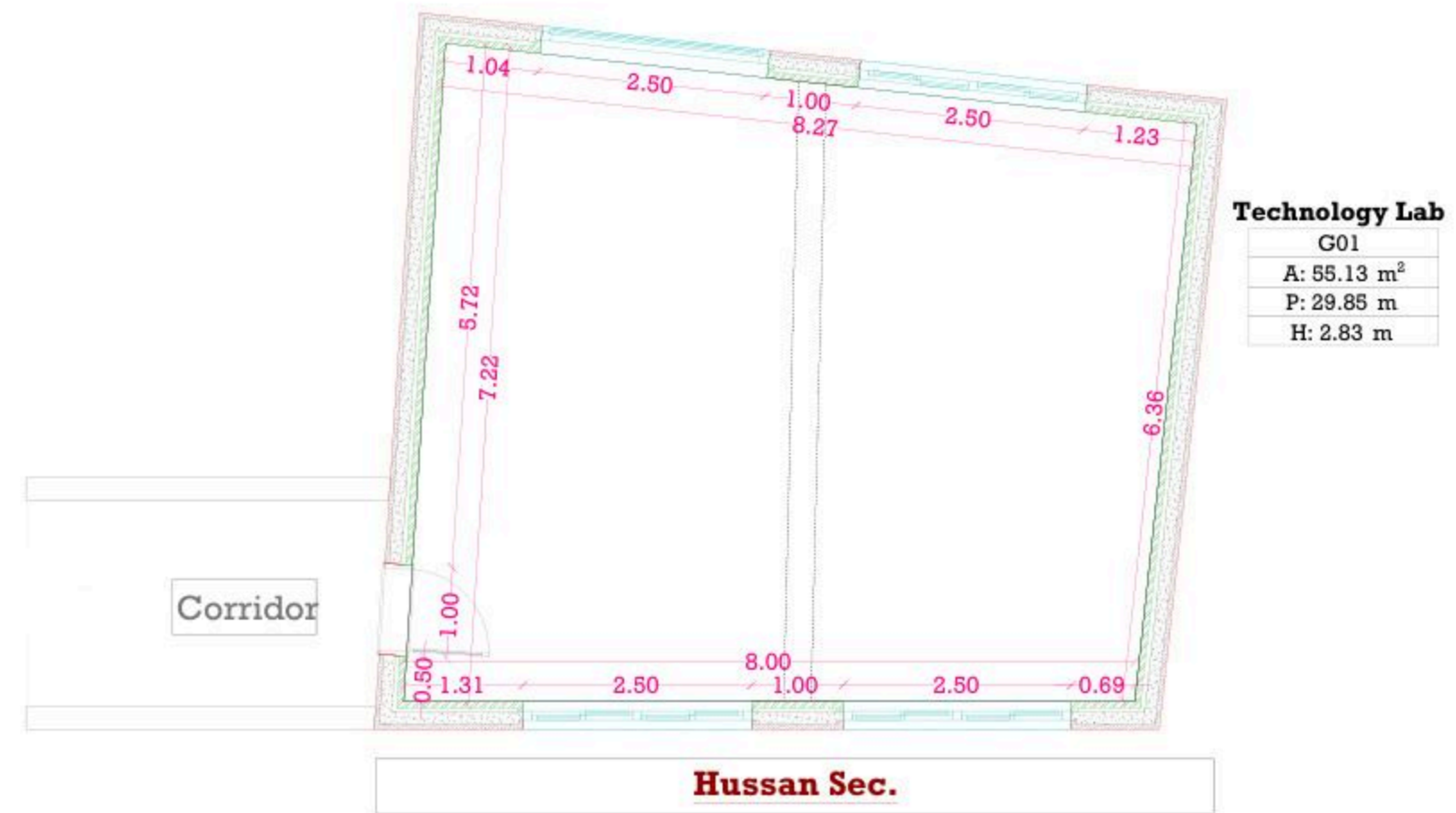
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A03	Dimension Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority

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Symbol, Hatches & Legend

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Designer



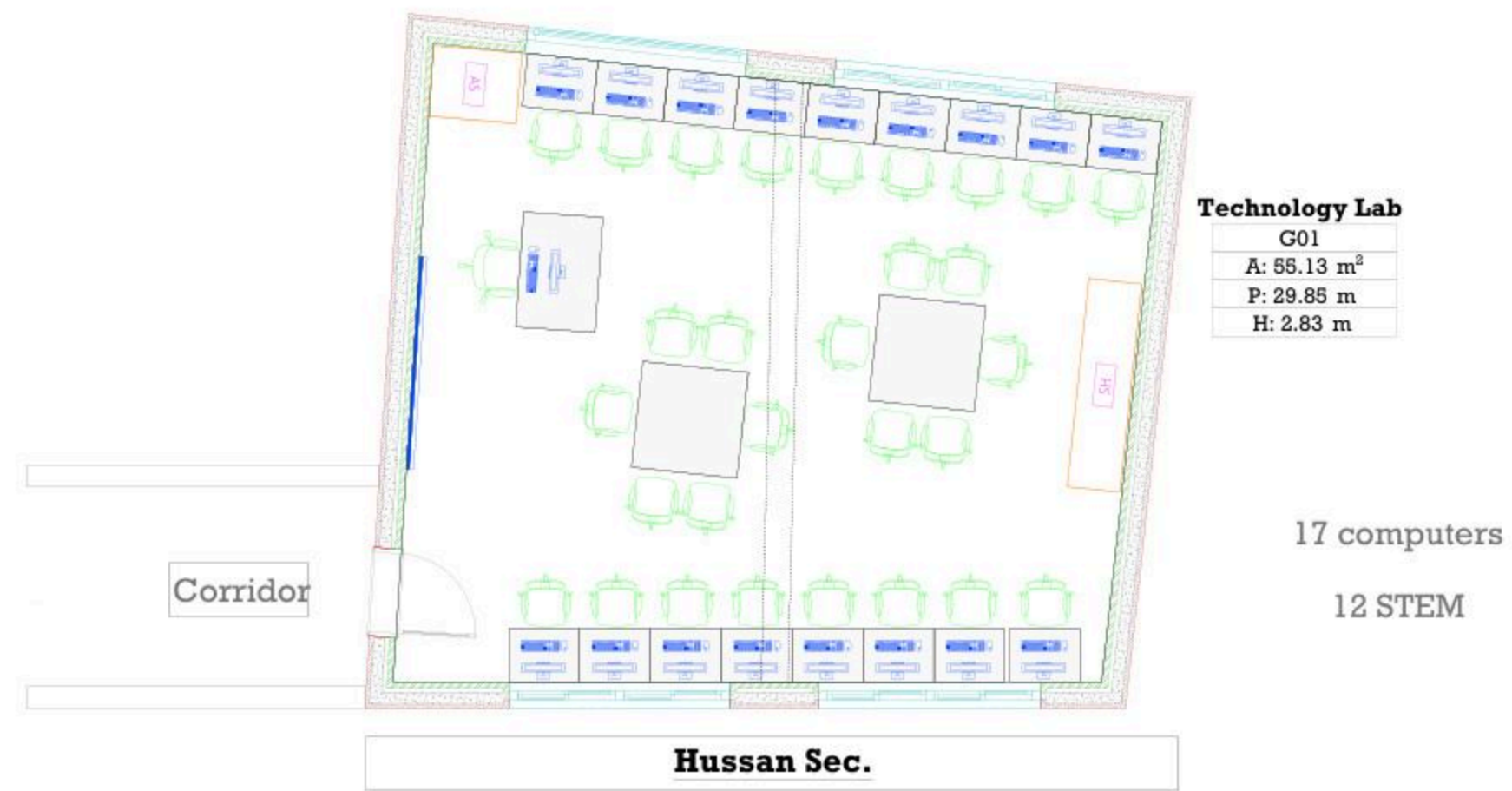
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A04	Furniture Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

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Project Team

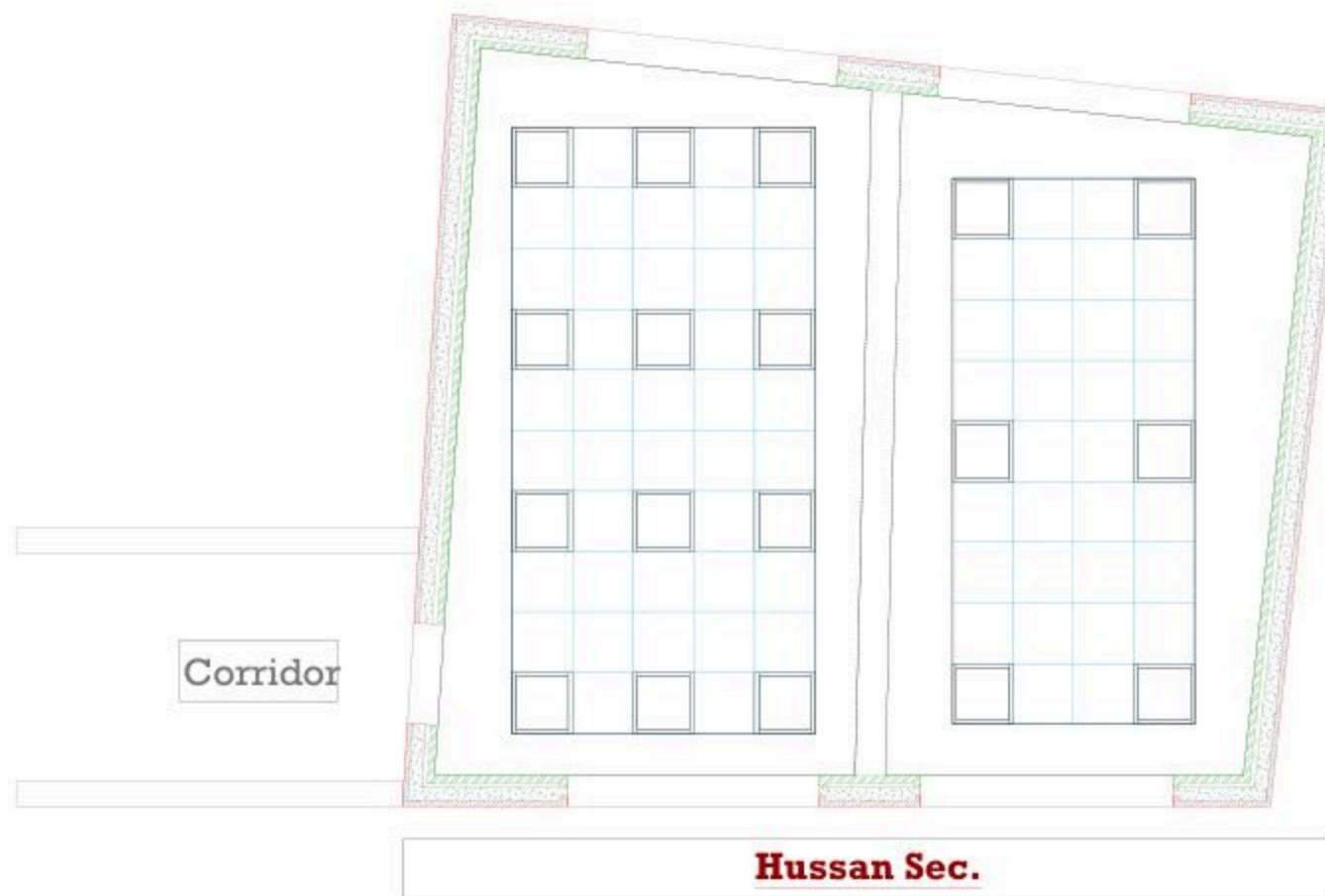
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

A05 Ceiling Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

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Project Team

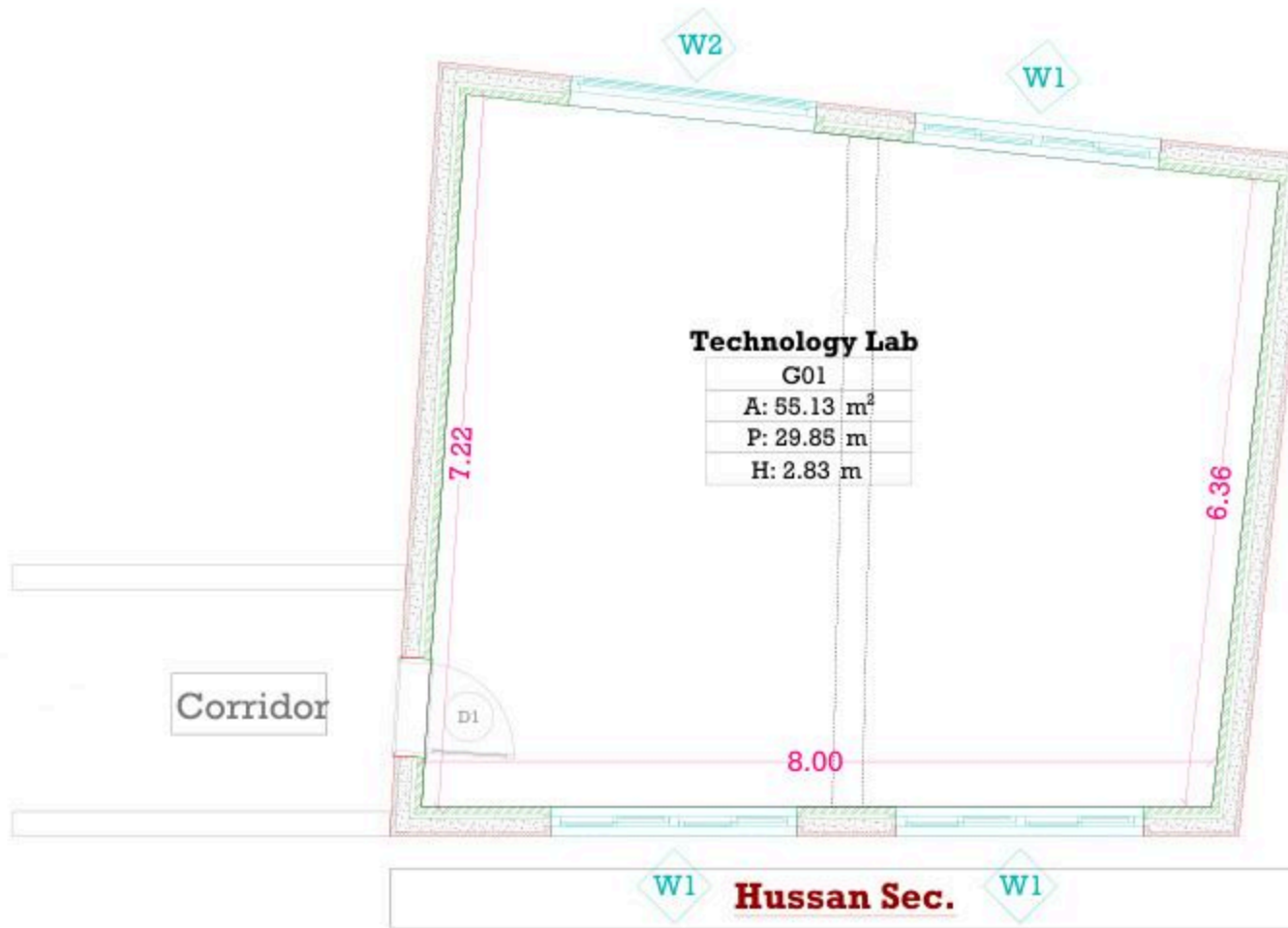
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

M01 Existing Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

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S.L. Sea Level	

Designer



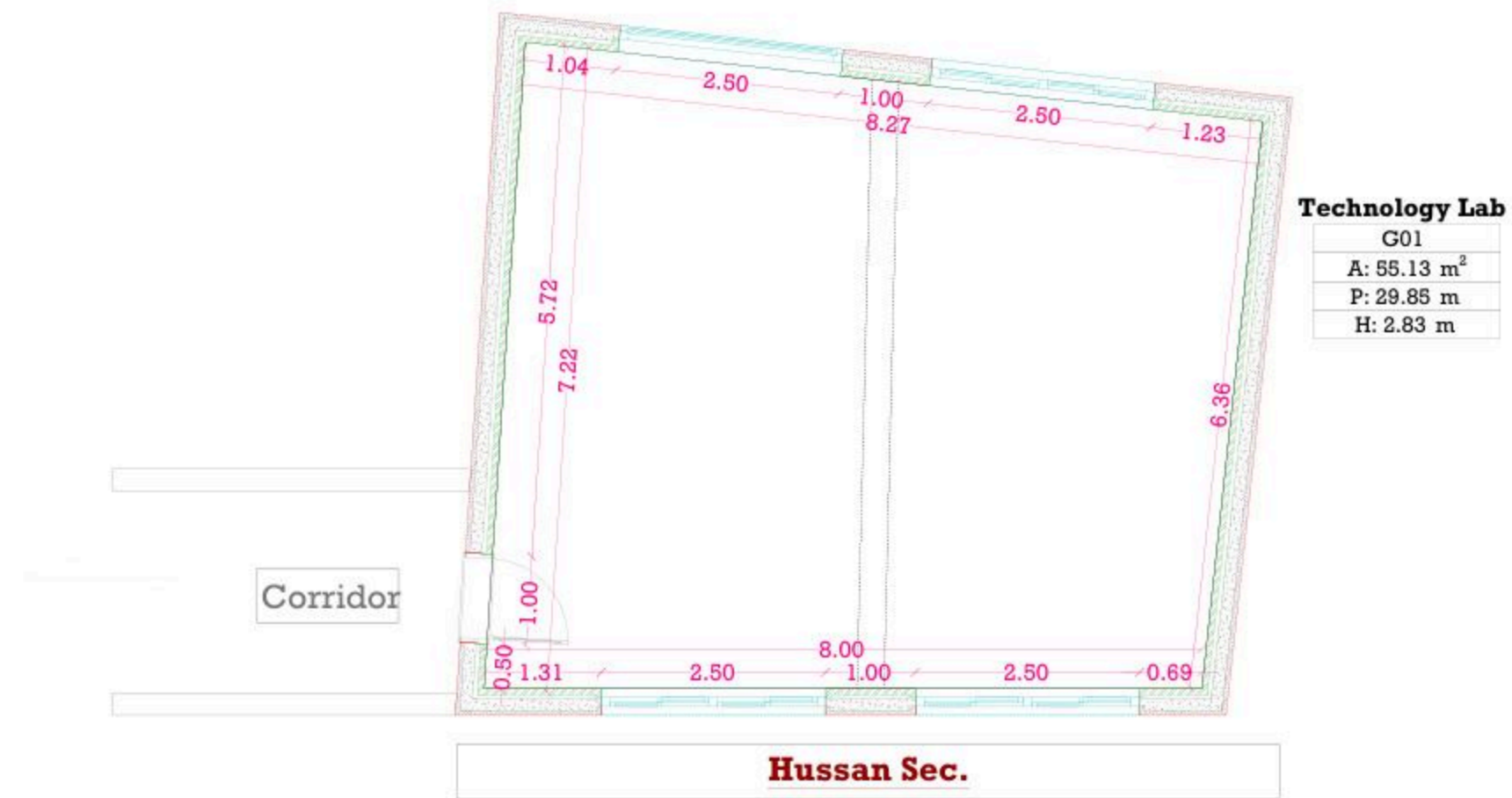
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M03	Dimension Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"**
Lot 1



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



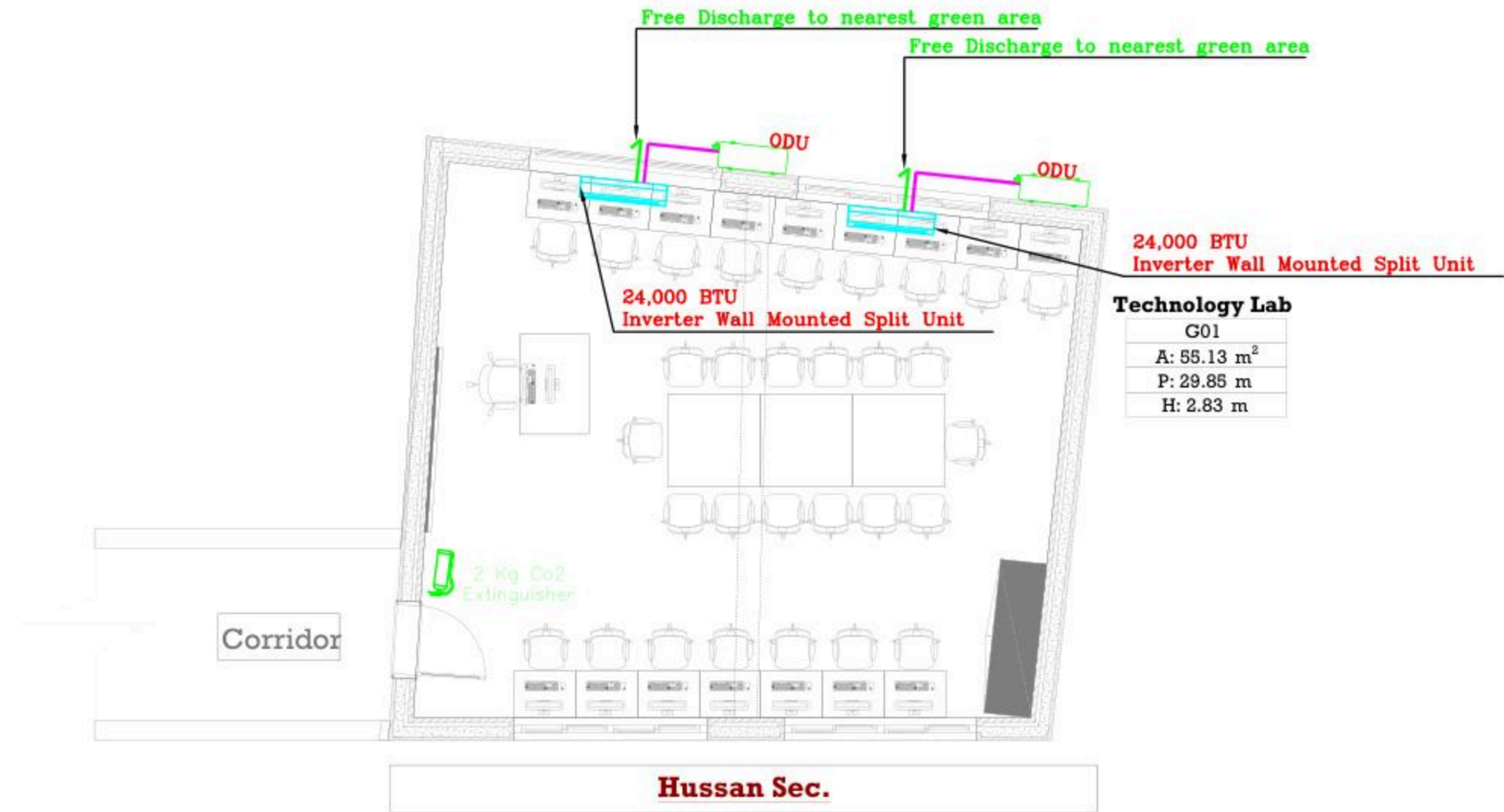
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M04	Furniture Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
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Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

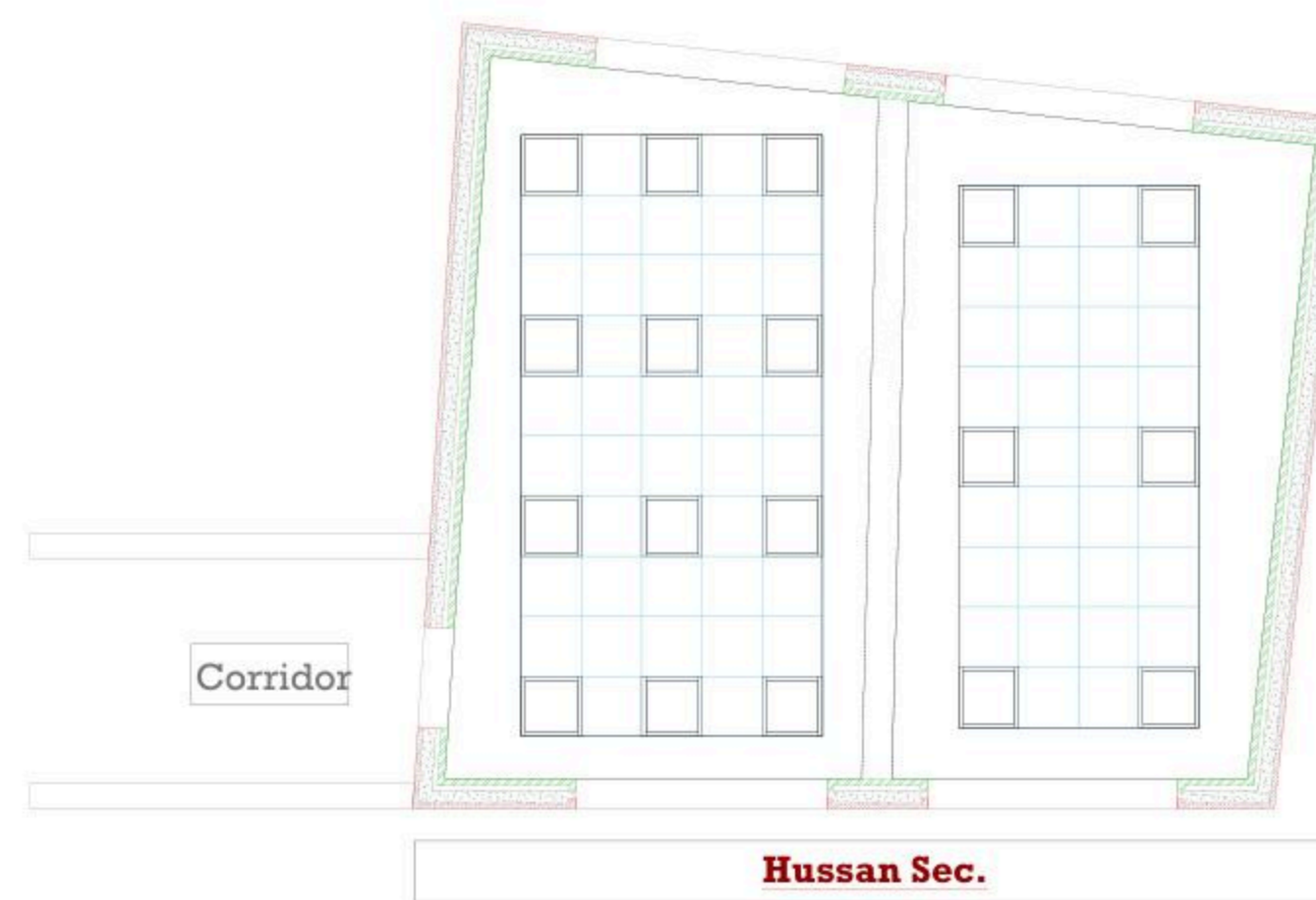


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M05	Ceiling Plan
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
CREATION OF STEM LABS IN
SCHOOLS IN THE WEST BANK"
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L Rein. Concrete Level		Windows Number
	F.F.L. Finish Floor Level		Doors Number
	S.L. Sea Level		

Consultant



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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E000	TITLES AND LEGEND

Date: 5/12/2025
Scale: 1:100

NO.	DESCRIPTION
E000	TITLE&LEGEND
E101	LIGHTING LAYOUT
E201	POWER LAYOUT
E301	LOW CURRENT LAYOUT
E401	POWER DIAGRAMS

SYMBOL	DESCRIPTION
A1	34W LED, 4500 LM, UGR 19, CRI 80, 4000K RECESS MOUNTED 60X60 CM MODULE WITH ALUMINUM FRAME, PMMA OPAL DIFFUSER GALVANISED STEEL BACK PLATE COMPLETE WITH SEPARATE CONTROL GEAR CONVERTER MADE BY THE SAME FACTORY, IP40, IK03, 50000HR LED
A2	RECESS/SURFACE MOUNTED 3W LED EMERGENCY LIGHT 3HRS SELF-CONTAINED BATTERY, 100% LUMEN FACTOR IP20 SELF-TEST

SYMBOL	DESCRIPTION
	3-PIN,(1-PHASE) 16A SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	SOCKET ABOVE FALSE CEILING
	3-PIN,(1-PHASE) 16A SOCKET OUTLET RED COLOR CONNECTED TO UPS
	DITTO, BUT DOUBLE SOCKET OUTLET
	DITTO, BUT ABOVE FALSE CEILING
	5-PIN(3-PHASE) 16A SOCKET OUTLET
	20A AC SOCKET OUTLET
	ELECTRICAL BELL
	ELECTRIC BOX.
	WALL EXTRACT FAN
	IN-LINE EXTRACT FAN
	2-POLE ISOLATING SWITCH
	4-POLE ISOLATING SWITCH
	AC UNIT,OUTDOOR,INDOOR.
	CIRCUIT BREAKER,MCB,MCCB
	EARTH LEAKAGE RELAY (RCD)
	AUTOMATIC TRANSFER SWITCH (ATS)
	HAND DRYER OUTLET
	HOT WATER CYLINDER
	WATER PUMP
	THERMOSTAT OUTLET
	FAN COIL UNIT
	CENTRIFUGAL EXTRACT FAN
	ONE-WAY SWITCH SINGLE POLE/ONE GANG,TWO GANG, THREE GANG,DOUBLE POLE SWITCH.
	TWO-WAY SINGLE POLE SWITCH/INTERMEDIATE, CROSS SWITCH
	SWITCH PANNEL
	PUSH BUTTON
	SHUTTER,DOOR MOTOR
	SHUTTER SWITCH UP/DN
	TELEPHONE SOCKET OUTLET
	RJ45 DATA SOCKET OUTLET
	WIRELESS ACCESS POINT-WI-FI
	SATELLITE SOCKET OUTLET
	INDOOR INTERCOM UNIT
	OUTDOOR INTERCOM UNIT
	ADSL ROUTER
	DOME CAMERA
	BOX CAMERA
	360°DOME CAMERA
	LOW VOLTAGE BOARD
	DATA RACK CABINET
	DISTRIBUTION BOARDS/MAIN,SUB

SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HEAT DETECTOR
	GAS DETECTOR
	MANUAL PULL STSTION/BREAK GLASS UNIT
	INDICATION LAMP
	INDOOR SIREN AUDIO ONLY
	OUTDOOR SIREN AUDIOVISUAL.
	CONTROL MODULE
	REPEATER PANEL
	FIRE ALARM CONTROL PANEL
	MOTION DETECTOR
	360° MOTION DETECTOR
	VIBRATION DETECTOR
	MAGNETIC CONTACTS
	HAND PANIC BUTTON
	FOOT PANIC BUTTON
	KEYBAD
	INTRUSION INDOOR SIREN AUDIO ONLY
	INTRUSION OUTDOOR SIREN AUDIOVISUAL.
	BURGLAR ALARM CONTROL PANEL
	PROXIMITY HID CARD READER
	DOOR LOCK
	REQUEST TO EXIT PUSH BUTTON
	SUPERVISORY MAGNETIC CONTACTS
	JUNCTION BOX
	ACCESS CONTROL PANEL
	TICKET DISPENSER UNIT (TDU)
	COUNTER DISPLAY UNIT (CDU)
	TELLER STATION UNIT (TSU)
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	HORN SPEAKER
	VOLUME CONTROL
	MIC SOCKET OUTLET
	MIC STATION
	PAVA RACK
	MULTI OUTLET WALL MOUNTED BOX,12/18 MODULE
	FLOOR MOUNTED MULTI OUTLET BOX,16 MODULE

GENERAL NOTES

- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.
- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.
- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.
- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.
- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).
- The height of the top edge of the power Distribution Board above FFL to be 180 cm.
- All panel boards shall be with doors, and shall be wether water proof in wet areas.
- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.
- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.
- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.
- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop Galvanized steel strips should not be less than 30*3mm Earth resistance measuring shall be carried before backfilling.

December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK"
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Consultant



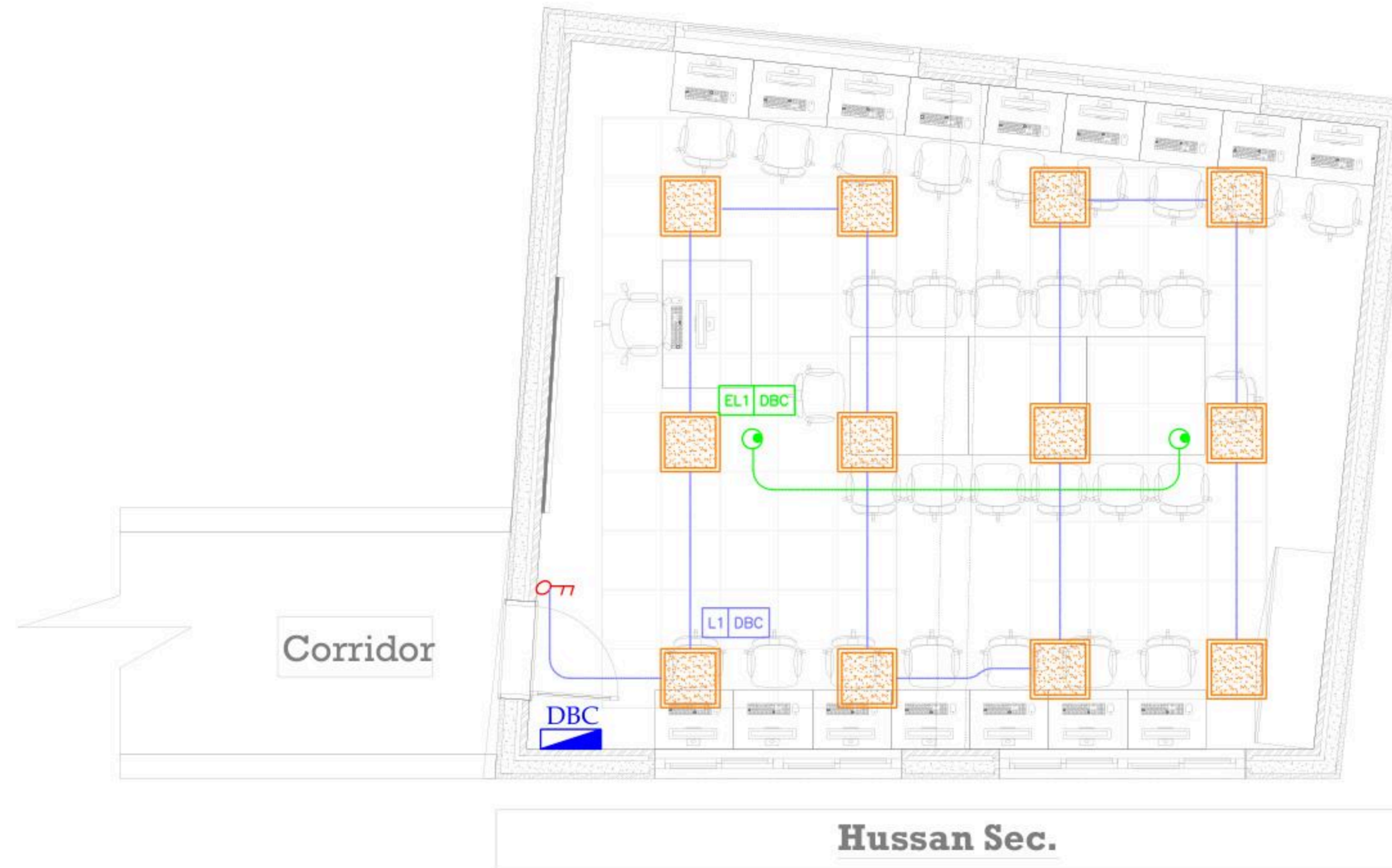
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Project Team

Team Leader	Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date:	5/12/2025
Scale:	1:100



Technology Lab

G01
A: 55.13 m ²
P: 29.85 m
H: 2.83 m

December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	(D) Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	(W) Windows Number
F.F.L. Finish Floor Level	(D) Doors Number
S.L. Sea Level	

Consultant



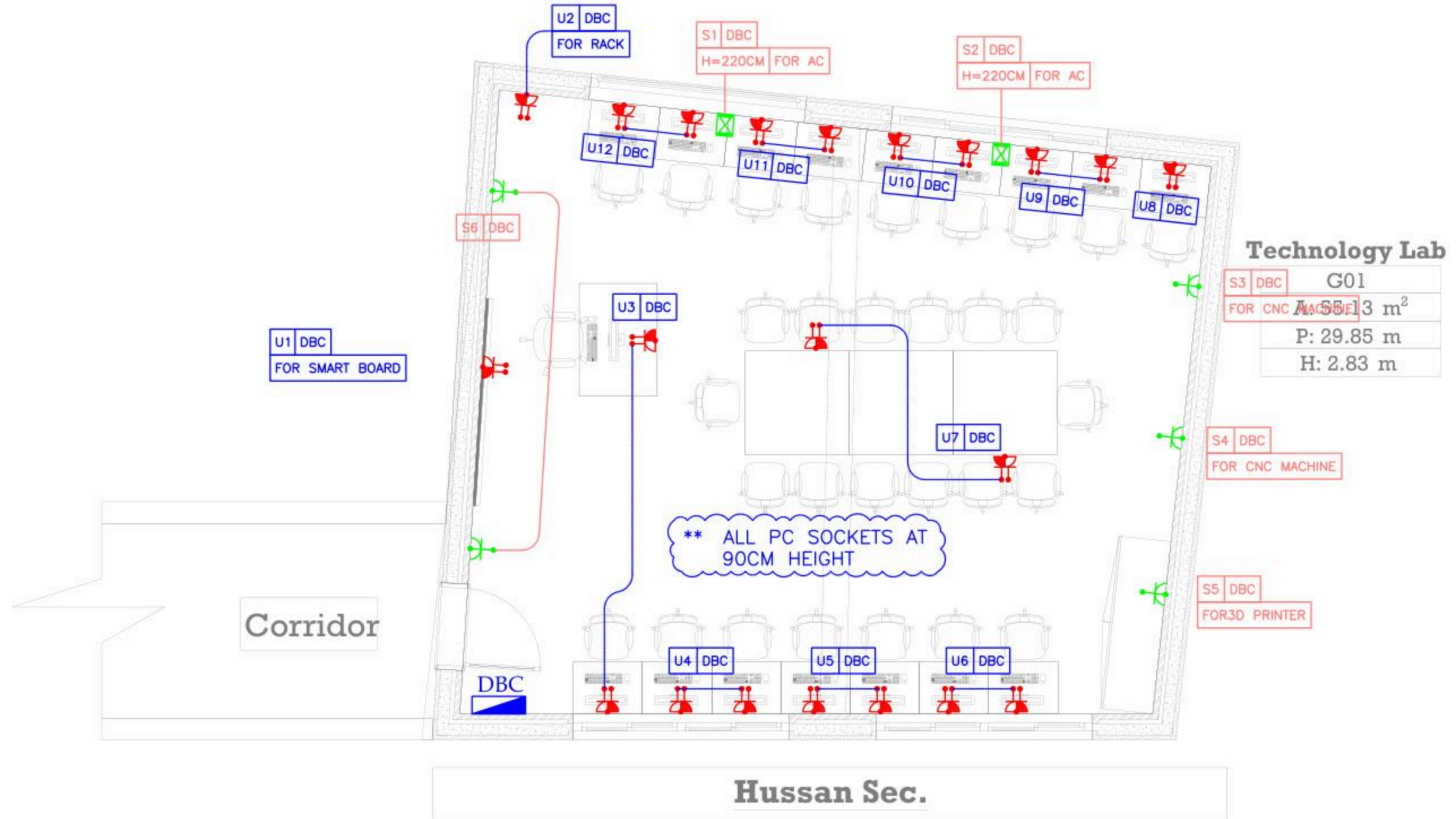
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Project Team

Team Leader	Arch. Malek Z. Murad
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Sheet No.	Sheet Title
E201	POWER LAYOUT

Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK” Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Consultant



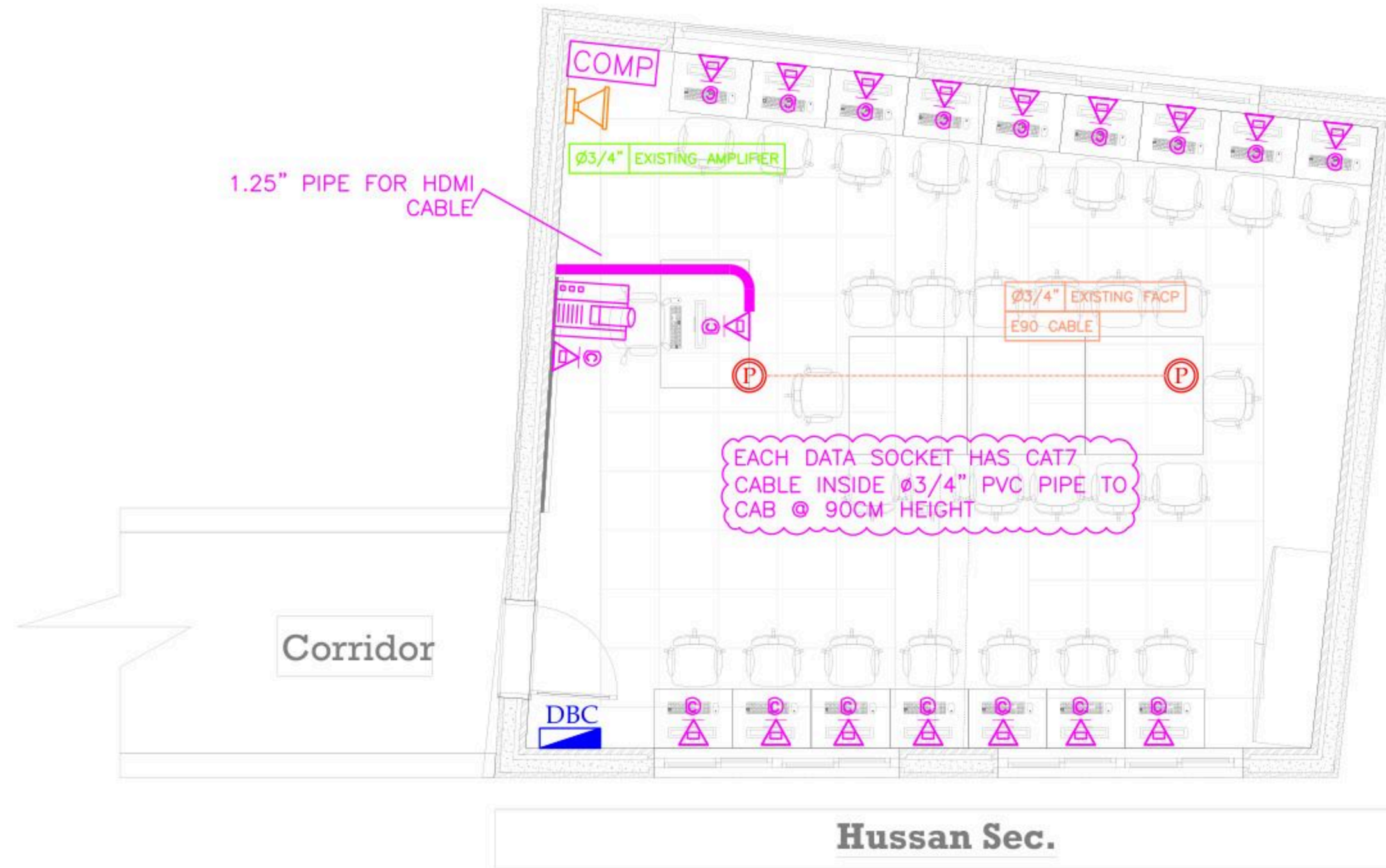
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E301	LOW CURRENT LAYOUT

Date: 5/12/2025
Scale: 1:100



Technology Lab

G01
A: 55.13 m ²
P: 29.85 m
H: 2.83 m

December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK
 Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Consultant



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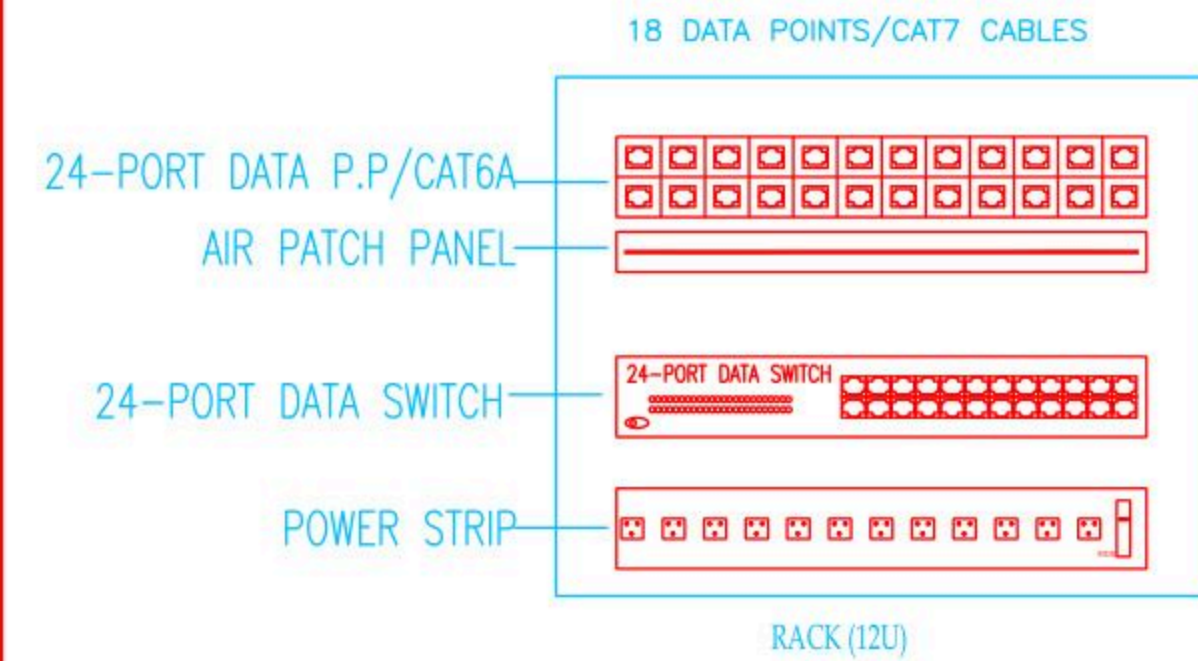
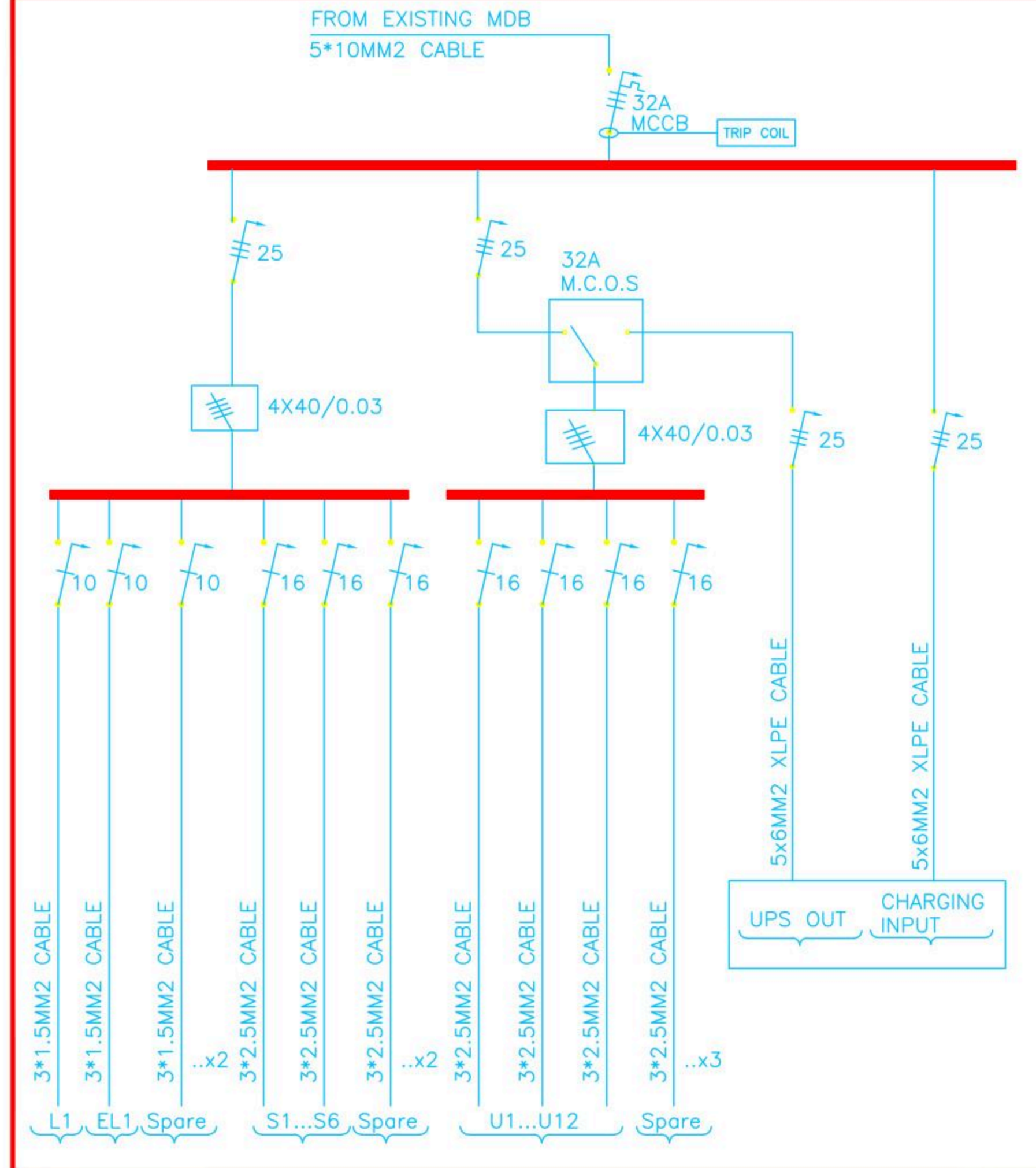
Project Team

Team Leader	Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date:	5/12/2025
Scale:	1:100

BOARD NAME: DBC





Belgium

partner in development

Rehabilitation and/or creation of STEM Labs in schools in the West Bank

Lot 1 Southern Governorates

Jouret Al Shamaa

Conslutant

Implemtened By



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REVISION [01]

Wednesday, December 5, 2025

December - 2025

Project Name

**Public works contract FOR THE
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BANK"
Lot 1**



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W1 Windows Number
F.F.L. Finish Floor Level	D1 Doors Number
S.L. Sea Level	

Designer



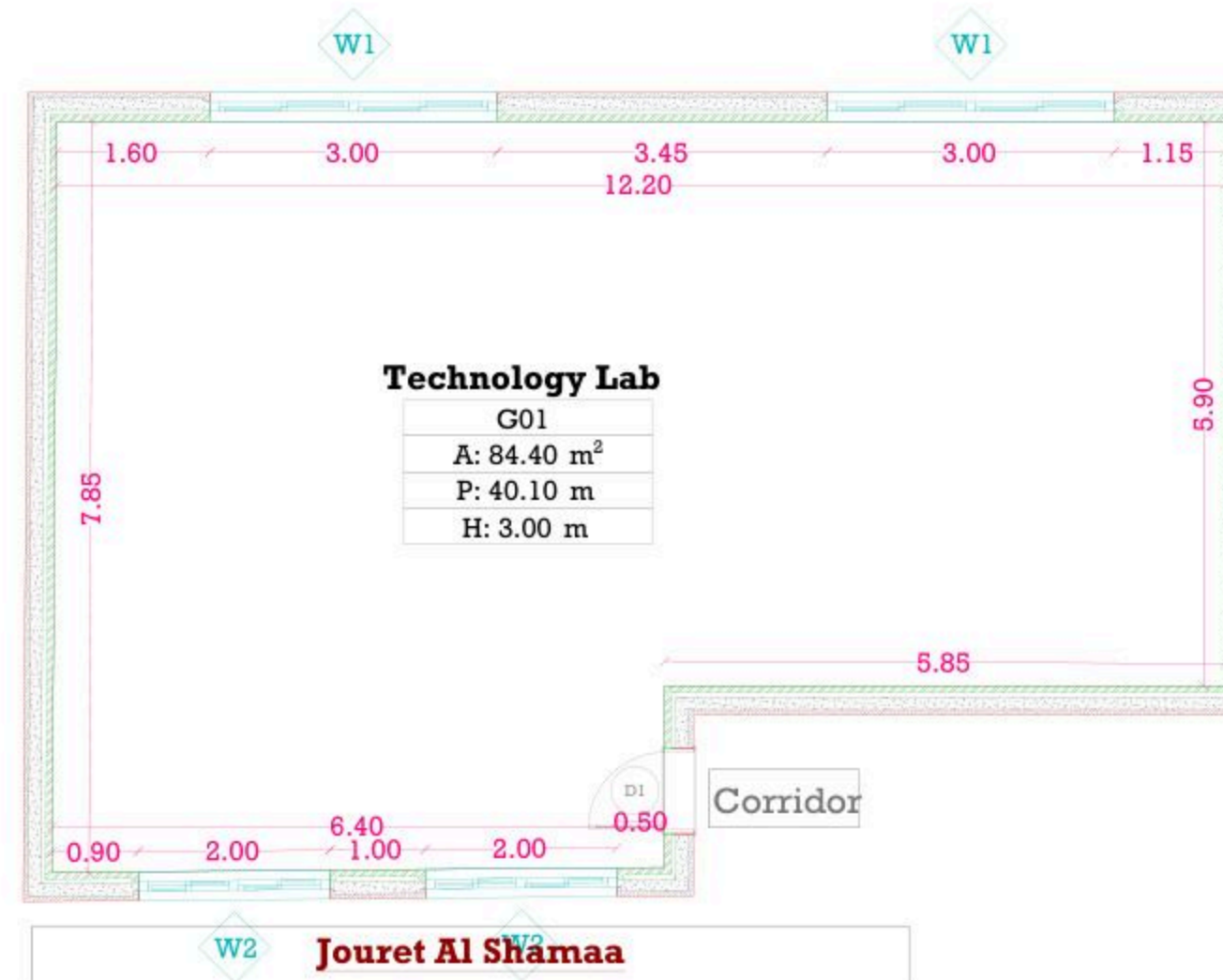
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A01	Existing Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

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Shear Walls	Detail Number
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Designer



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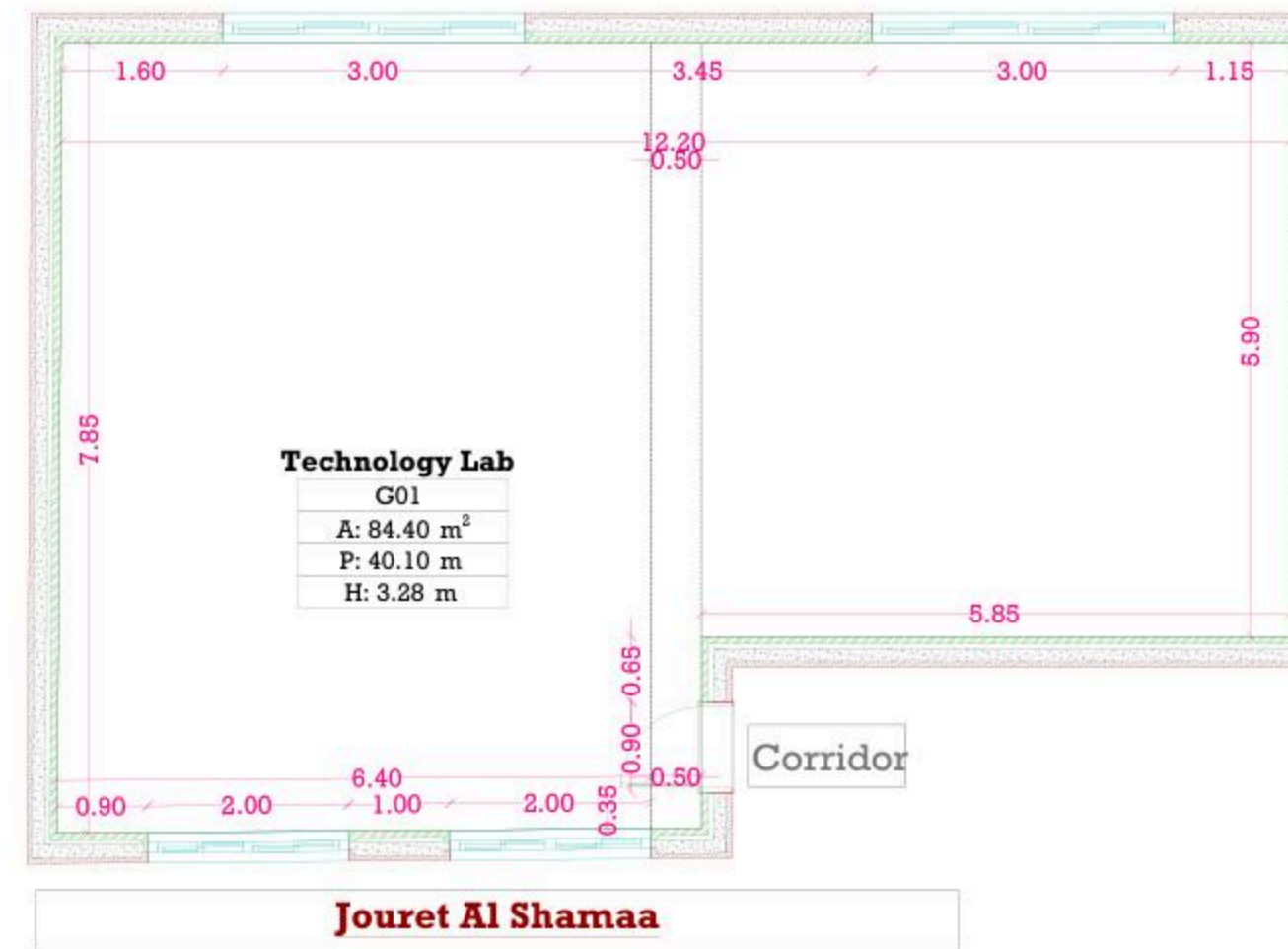
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A03	Dimension Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
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Concrete	Finish Floor Level
Cement Block	R.C. Level
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S.L. Sea Level	

Designer

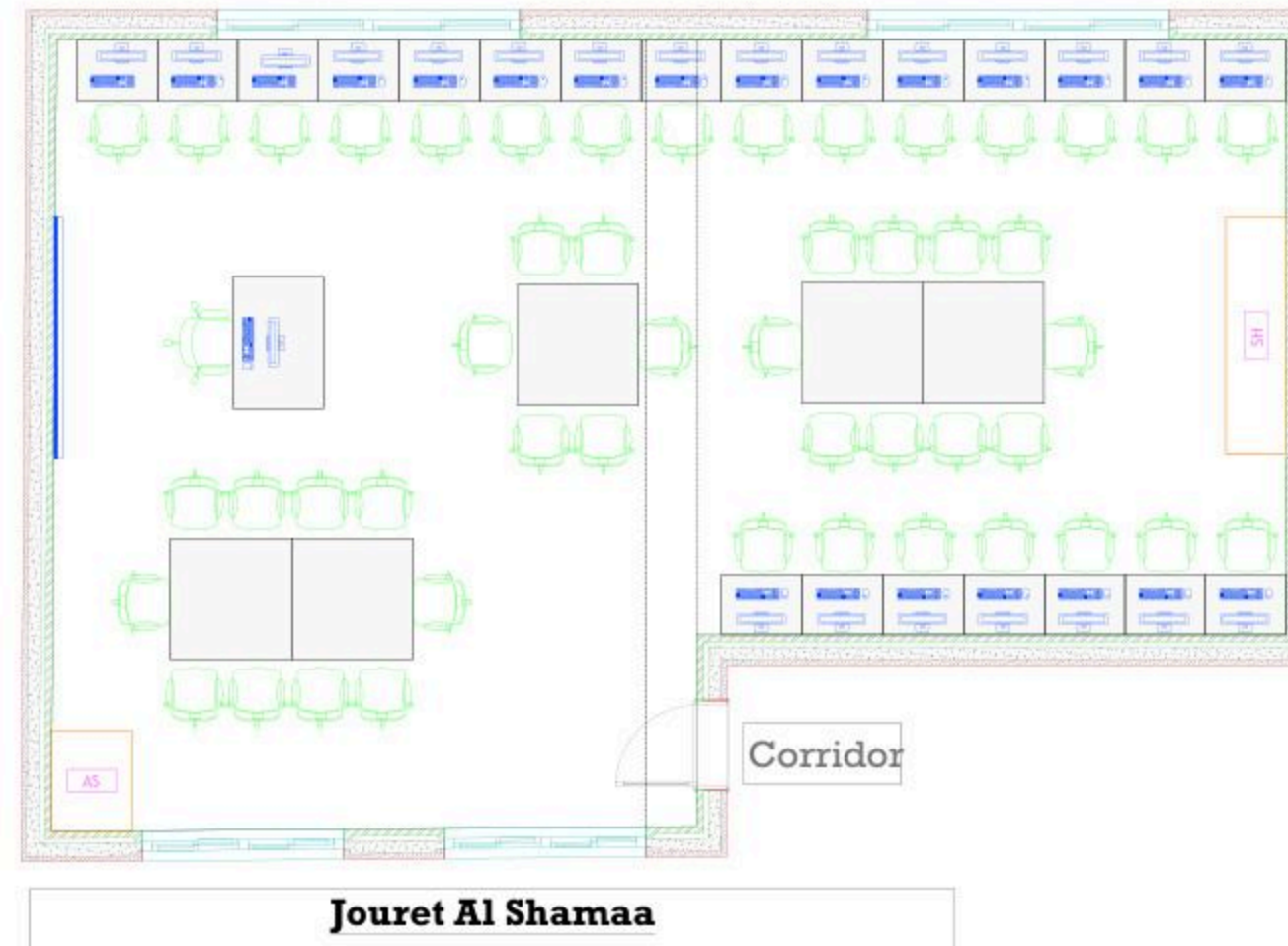


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A04	Furniture Plan
Date:	5/12/2025
Scale:	1:100



Technology Lab

G01
A: 84.40 m ²
P: 40.10 m
H: 3.28 m

22 computers

26 STEM

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
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Symbol, Hatches & Legend

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Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
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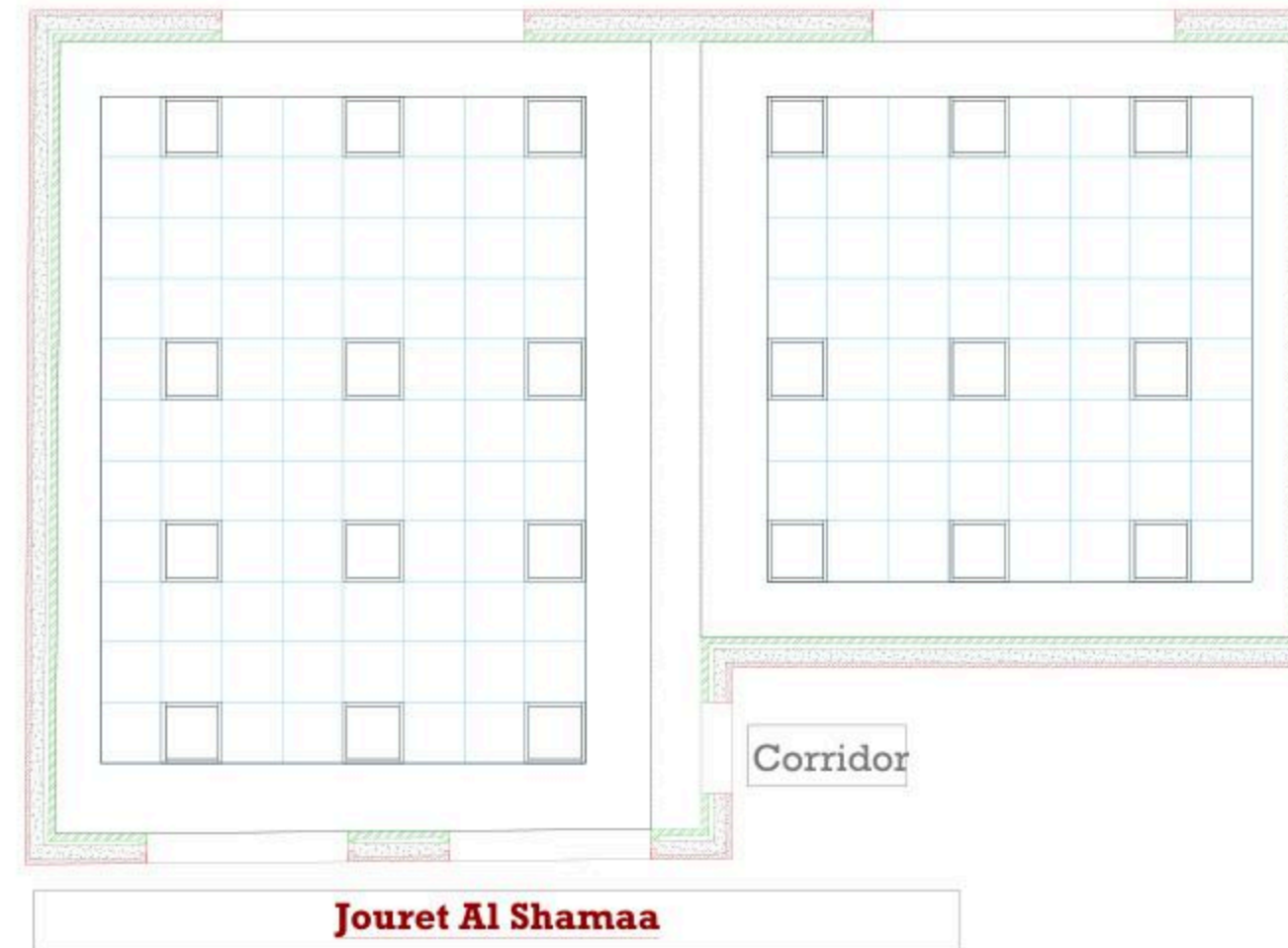
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Project Team

Team Leader Arch. Malek Z. Murad



Sheet No.	Sheet Title
A05	Ceiling Plan
Date:	5/12/2025
Scale:	1:100

December - 2025

Project Name

**Public works contract FOR THE
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STEM LABS IN SCHOOLS IN THE WEST
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	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L. Rein. Concrete Level		Windows Number
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	S.L. Sea Level		

Designer



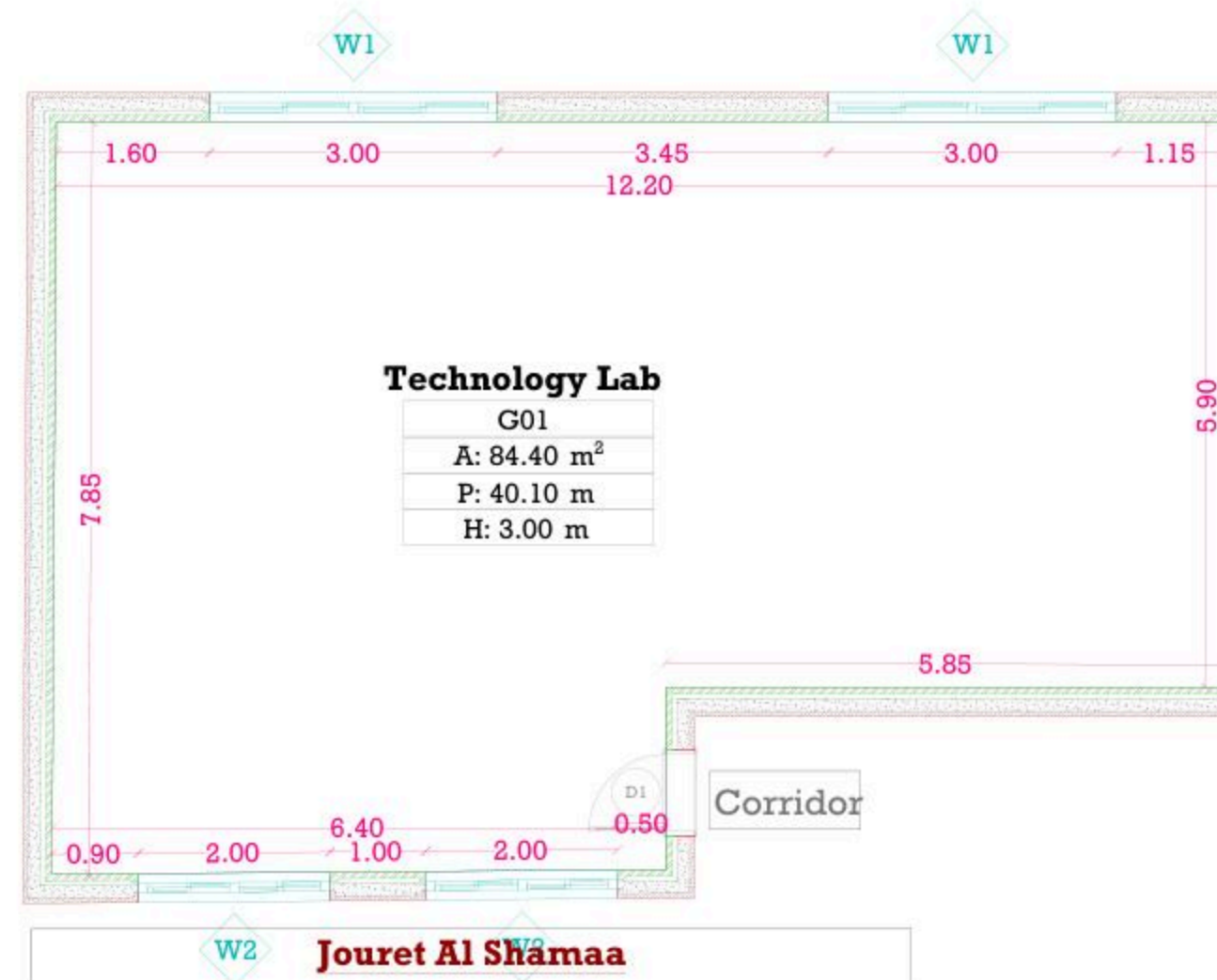
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M01	Existing Plan

Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name

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Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
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S.L. Sea Level	

Designer



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Project Team

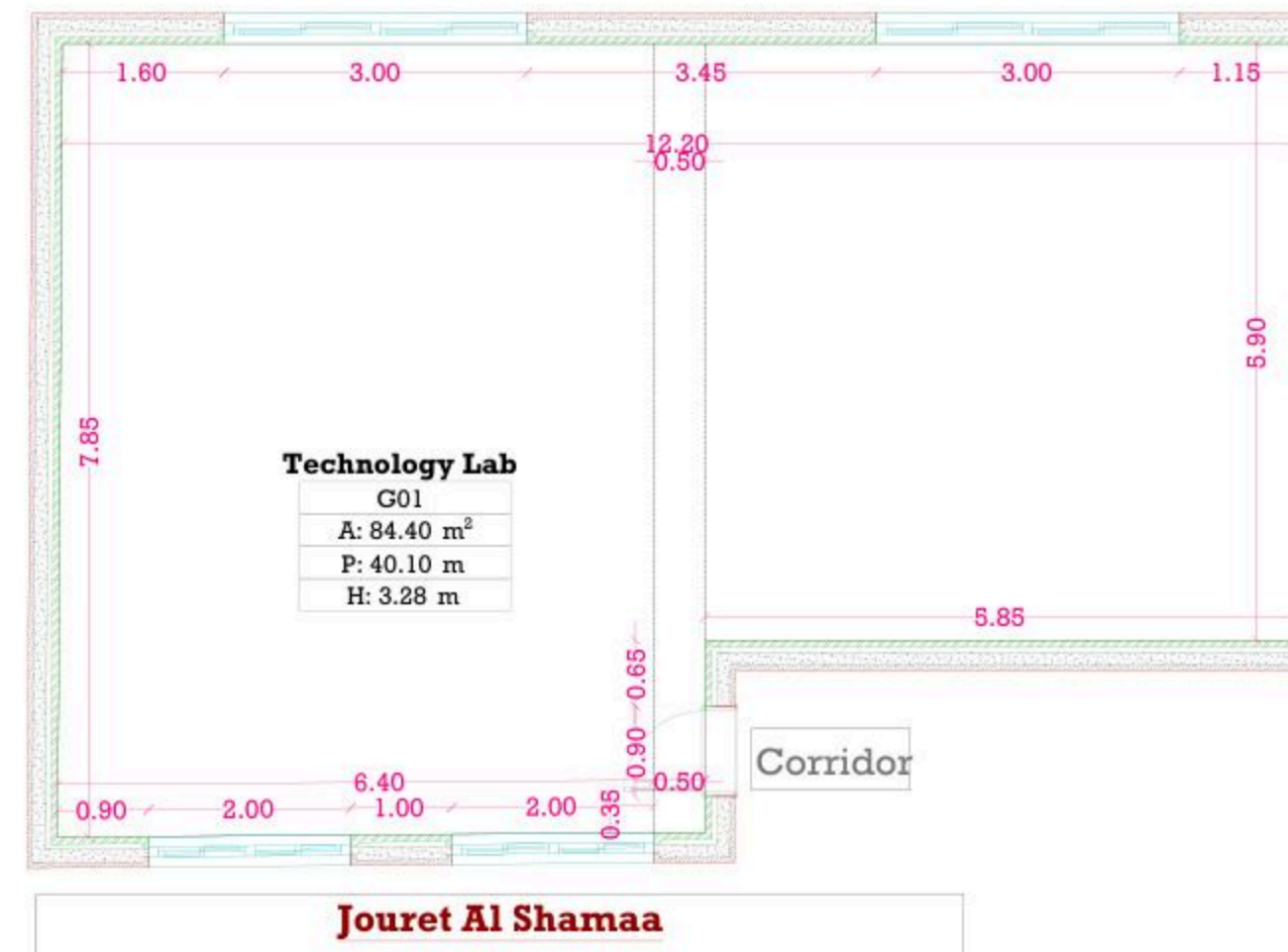
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

M03 Dimension Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority

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Symbol, Hatches & Legend

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Cement Block	R.C. Level
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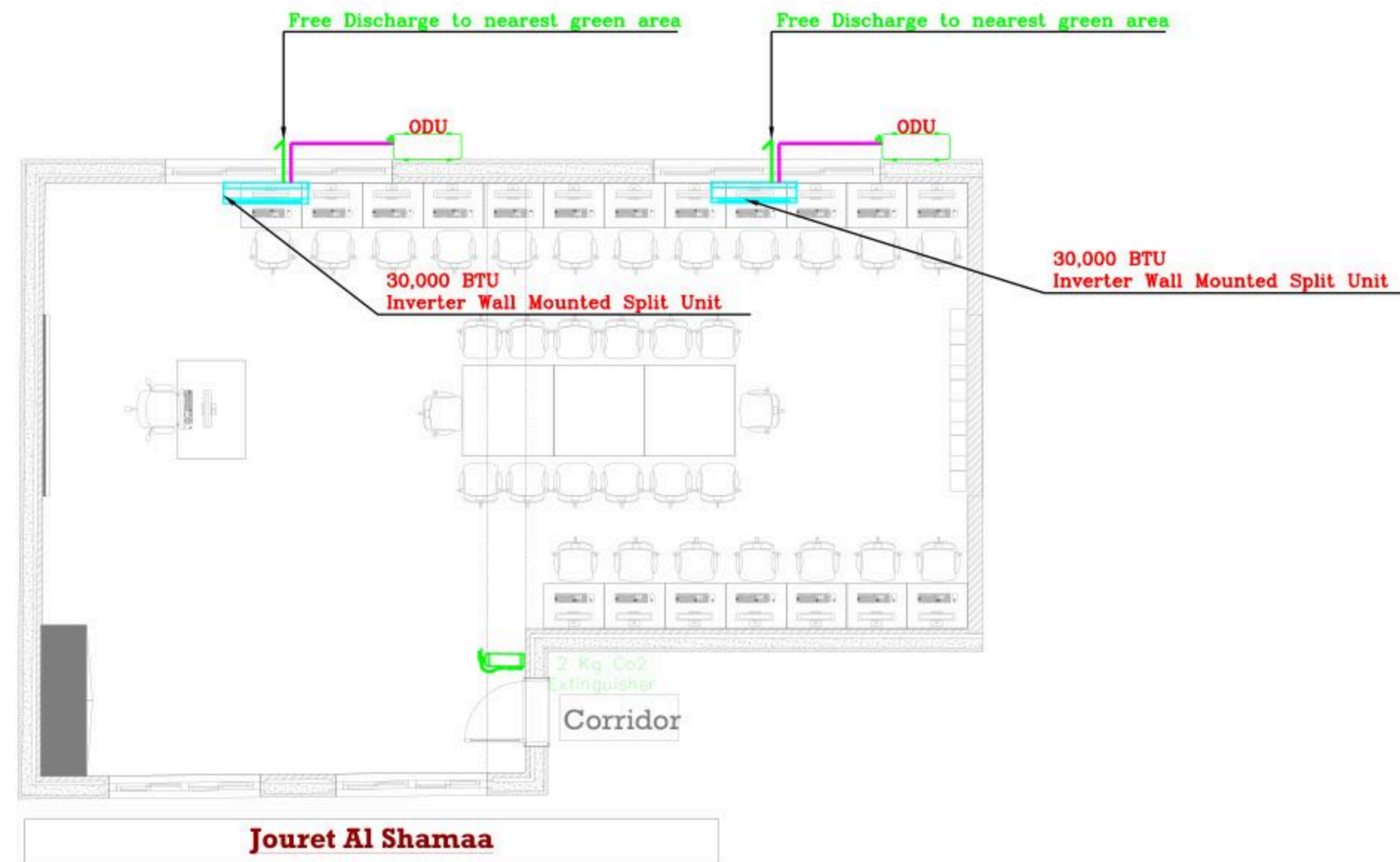
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M04	Furniture Plan
Date:	5/12/2025
Scale:	1:100

Technology Lab
G01
A: 84.40 m²
P: 40.10 m
H: 3.28 m



December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
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S.L. Sea Level	

Designer

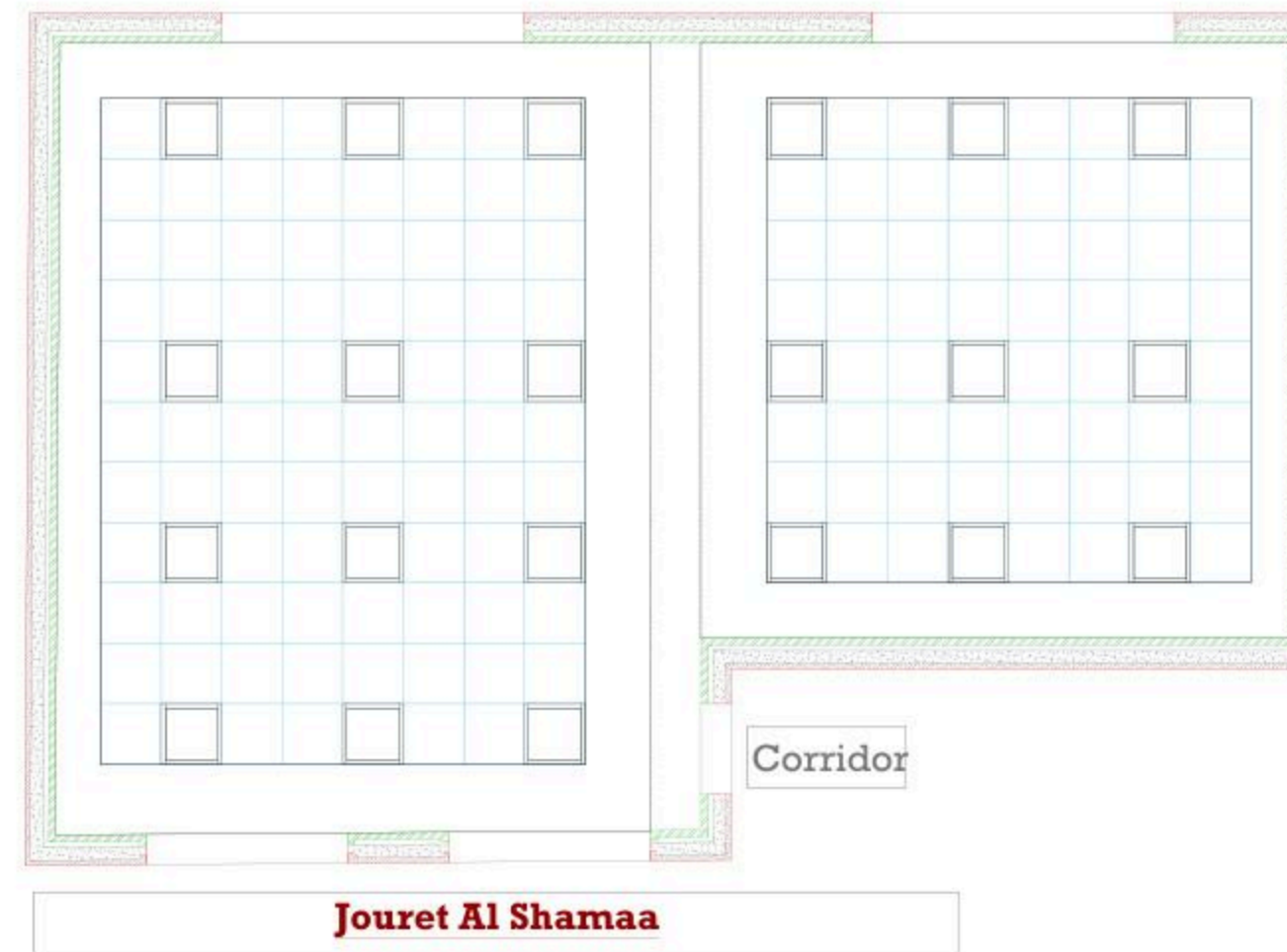


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M05	Ceiling Plan
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
CREATION OF STEM LABS IN
SCHOOLS IN THE WEST BANK”
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D1 Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Wj Windows Number
F.F.L. Finish Floor Level	Dj Doors Number
S.L. Sea Level	

Consultant



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Project Team

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Sheet No.	Sheet Title
E000	TITLES AND LEGEND

Date: 5/12/2025
Scale: 1:100

NO.	DESCRIPTION
E000	TITLE&LEGEND
E101	LIGHTING LAYOUT
E201	POWER LAYOUT
E301	LOW CURRENT LAYOUT
E401	POWER DIAGRAMS

SYMBOL	DESCRIPTION
A1	34W LED, 4500 LM, UGR 19, CRI 80, 4000K RECESS MOUNTED 60X60 CM MODULE WITH ALUMINIUM FRAME, PMMA OPAL DIFFUSER GALVANISED STEEL BACK PLATE COMPLETE WITH SEPARATE CONTROL GEAR CONVERTER MADE BY THE SAME FACTORY, IP40, IK03, 50000HR LED
A2	RECESS/SURFACE MOUNTED 3W LED EMERGENCY LIGHT 3HRS SELF-CONTAINED BATTERY, 100% LUMEN FACTOR IP20 SELF-TEST

SYMBOL	DESCRIPTION
	3-PIN,(1-PHASE) 16A SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	SOCKET ABOVE FALSE CEILING
	3-PIN,(1-PHASE) 16A SOCKET OUTLET RED COLOR CONNECTED TO UPS
	DITTO, BUT DOUBLE SOCKET OUTLET
	DITTO, BUT ABOVE FALSE CEILING
	5-PIN(3-PHASE) 16A SOCKET OUTLET
	20A AC SOCKET OUTLET
	ELECTRICAL BELL
	ELECTRIC BOX.
	WALL EXTRACT FAN
	IN-LINE EXTRACT FAN
	2-POLE ISOLATING SWITCH
	4-POLE ISOLATING SWITCH
	AC UNIT,OUTDOOR,INDOOR.
	CIRCUIT BREAKER,MCCB,MCCB
	EARTH LEAKAGE RELAY (RCD)
	AUTOMATIC TRANSFER SWITCH (ATS)
	HAND DRYER OUTLET
	HOT WATER CYLINDER
	WATER PUMP
	THERMOSTAT OUTLET
	FAN COIL UNIT
	CENTRIFUGAL EXTRACT FAN
	ONE-WAY SWITCH SINGLE POLE/ONE GANG,TWO GANG, THREE GANG,DOUBLE POLE SWITCH.
	TWO-WAY SINGLE POLE SWITCH/INTERMEDIATE, CROSS SWITCH
	SWITCH PANNEL
	PUSH BUTTON
	SHUTTER,DOOR MOTOR
	SHUTTER SWITCH UP/DN
	TELEPHONE SOCKET OUTLET
	RJ45 DATA SOCKET OUTLET
	WIRELESS ACCESS POINT-WI-FI
	SATELLITE SOCKET OUTLET
	INDOOR INTERCOM UNIT
	OUTDOOR INTERCOM UNIT
	ADSL ROUTER
	DOME CAMERA
	BOX CAMERA
	360°DOME CAMERA
	LOW VOLTAGE BOARD
	DATA RACK CABINET
	DISTRIBUTION BOARDS/MAIN,SUB

SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HEAT DETECTOR
	GAS DETECTOR
	MANUAL PULL STSTION/BREAK GLASS UNIT
	INDICATION LAMP
	INDOOR SIREN AUDIO ONLY
	OUTDOOR SIREN AUDIOVISUAL.
	CONTROL MODULE
	REPEATER PANEL
	FIRE ALARM CONTROL PANEL
	MOTION DETECTOR
	360° MOTION DETECTOR
	VIBRATION DETECTOR
	MAGNETIC CONTACTS
	HAND PANIC BUTTON
	FOOT PANIC BUTTON
	KEYBAD
	INTRUSION INDOOR SIREN AUDIO ONLY
	INTRUSION OUTDOOR SIREN AUDIOVISUAL.
	BURGLAR ALARM CONTROL PANEL
	PROXIMITY HID CARD READER
	DOOR LOCK
	REQUEST TO EXIT PUSH BUTTON
	SUPERVISORY MAGNETIC CONTACTS
	JUNCTION BOX
	ACCESS CONTROL PANEL
	TICKET DISPENSER UNIT (TDU)
	COUNTER DISPLAY UNIT (CDU)
	TELLER STATION UNIT (TSU)
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	HORN SPEAKER
	VOLUME CONTROL
	MIC SOCKET OUTLET
	MIC STATION
	PAVA RACK
	MULTI OUTLET WALL MOUNTED BOX,12/18 MODULE
	FLOOR MOUNTED MULTI OUTLET BOX,16 MODULE

GENERAL NOTES

- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.
- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.
- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.
- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.
- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).
- The height of the top edge of the power Distribution Board above FFL to be 180 cm.
- All panel boards shall be with doors, and shall be wether water proof in wet areas.
- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal protection, and have a min. rupturing capacity of 25 k.A.
- The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.
- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.
- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop Galvanized steel strips should not be less than 30*3mm Earth resistance measuring shall be carried before backfilling.

December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK"
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L. Rein. Concrete Level		Windows Number
	F.F.L. Finish Floor Level		Doors Number
	S.L. Sea Level		

Consultant



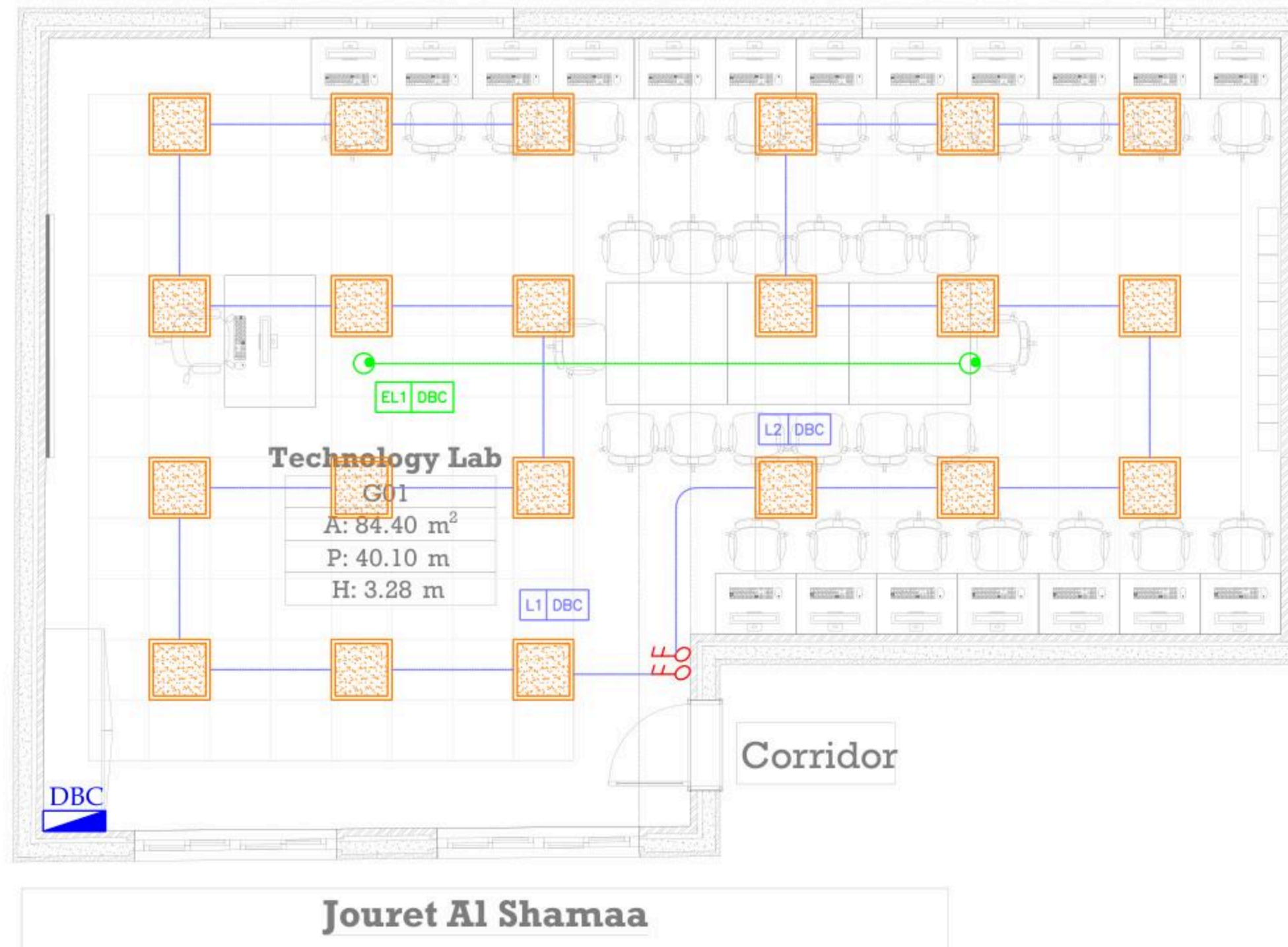
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Project Team

Team Leader	Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Consultant

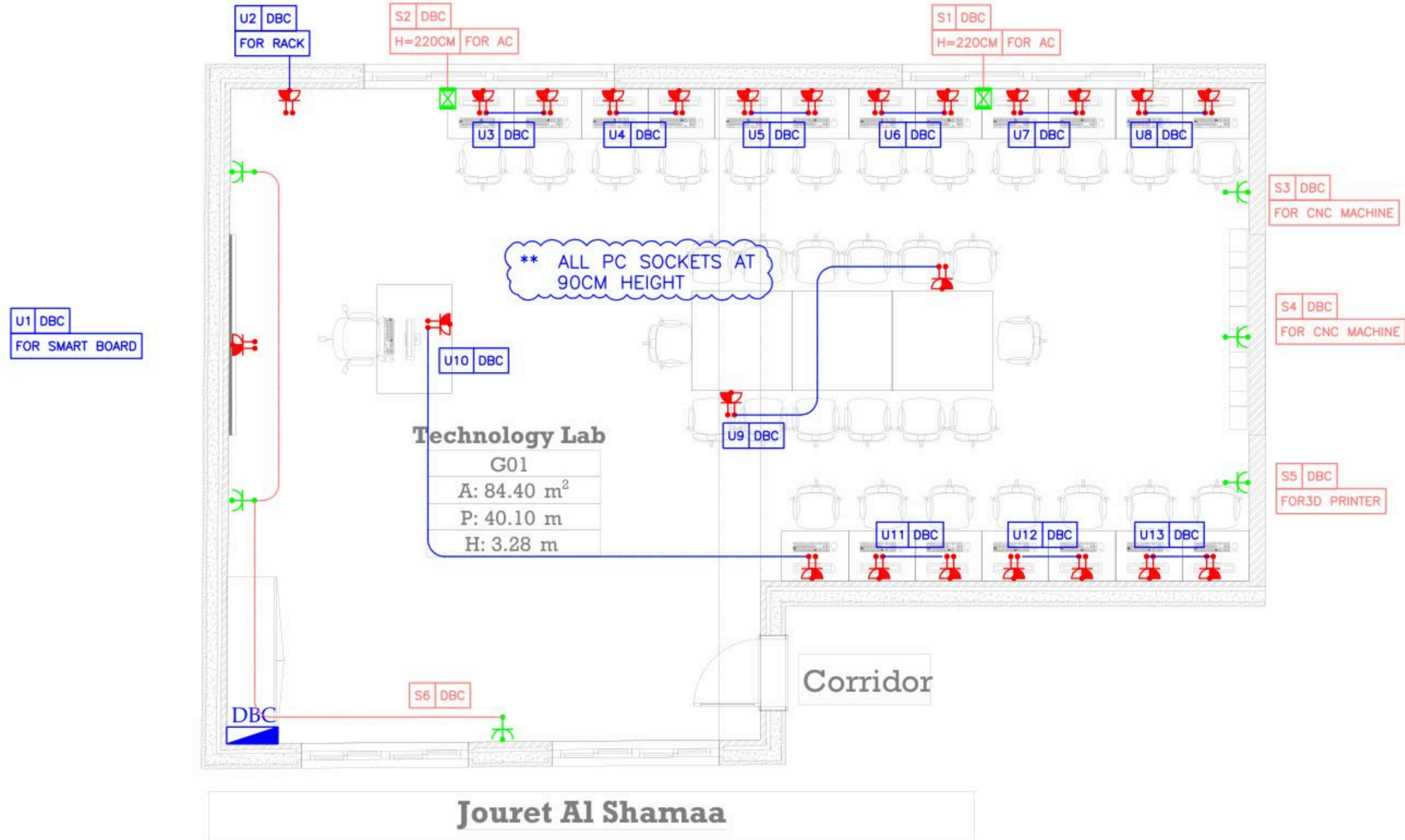


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E201	POWER LAYOUT
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name
**Public works contract FOR THE
REHABILITATION AND/OR
CREATION OF STEM LABS IN
SCHOOLS IN THE WEST BANK"**
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Consultant



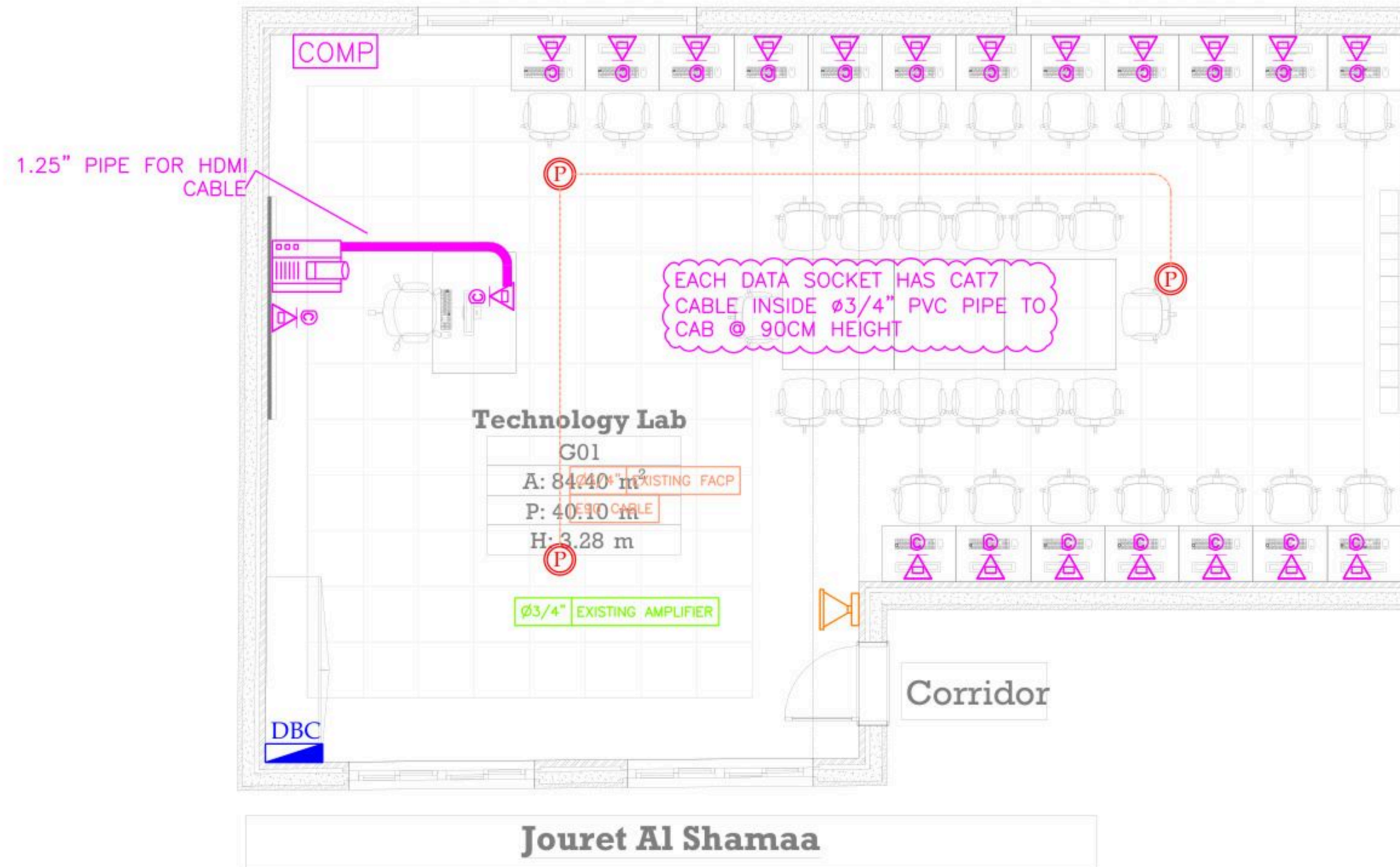
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E301	LOW CURRENT LAYOUT

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK
 Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Consultant



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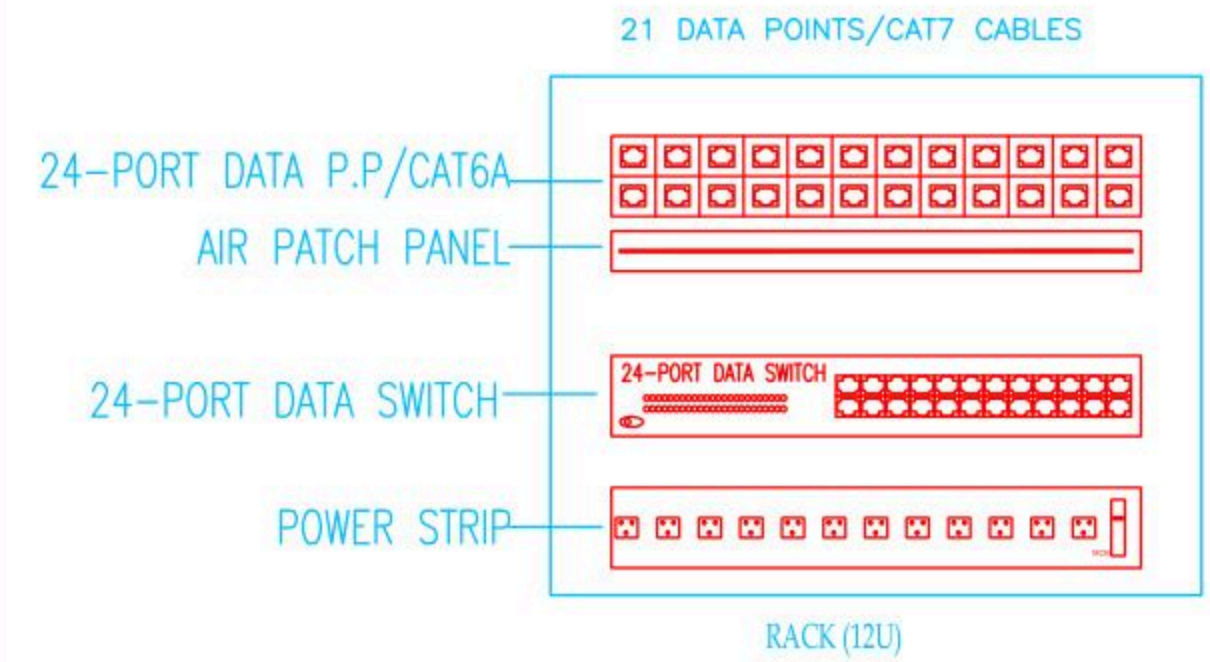
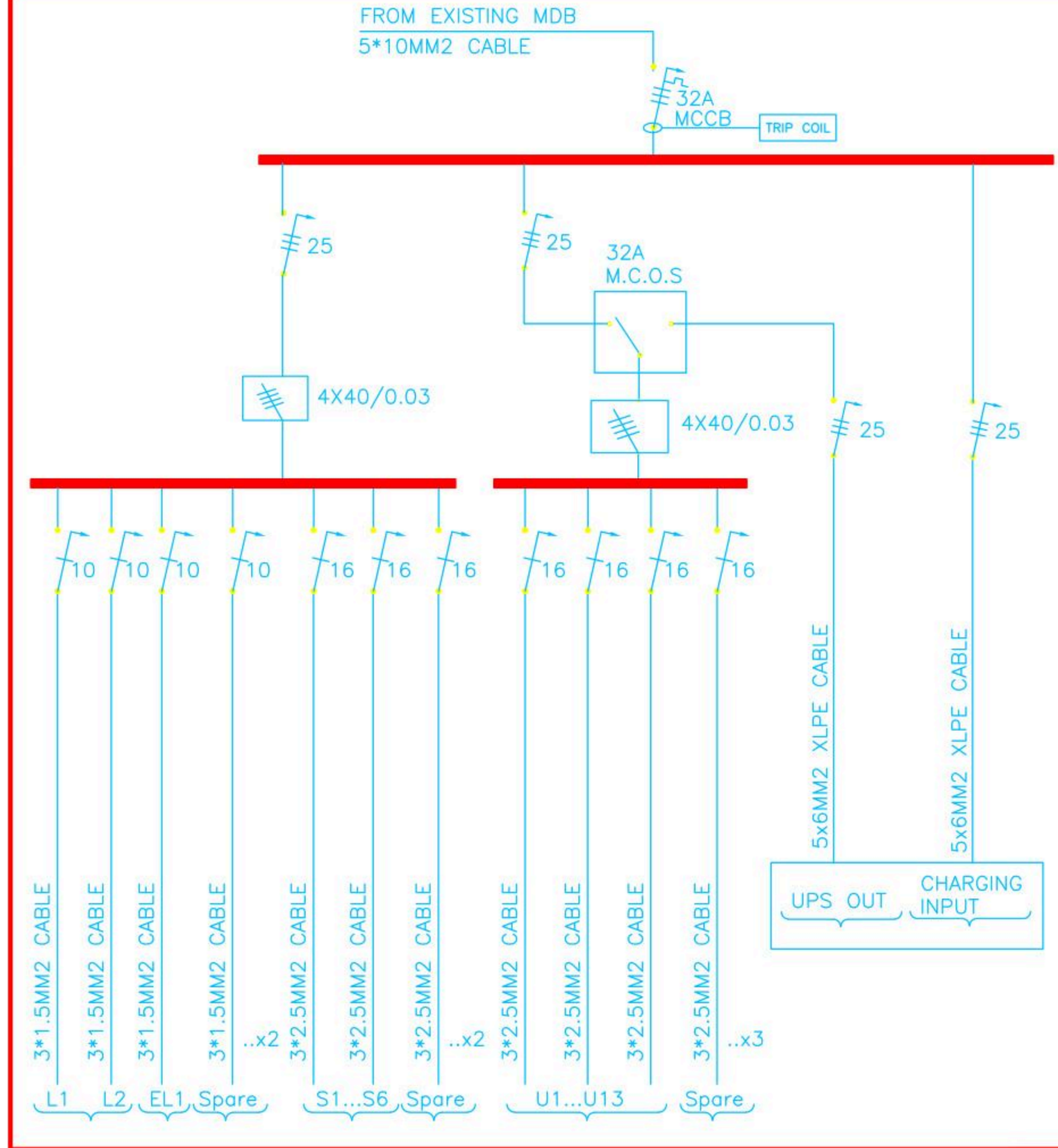
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date: 5/12/2025
 Scale: 1:100

BOARD NAME: DBC





Belgium
partner in development

Rehabilitation and/or creation of STEM Labs in schools in the West Bank

Lot 1 Southern Governorates

Nahalin Sec. School

Conslutant

Implemtened By



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REVISION [01]

Wednesday, December 5, 2025

December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L Rein. Concrete Level	W1 Windows Number
F.F.L. Finish Floor Level	D1 Doors Number
S.L. Sea Level	

Designer



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Project Team

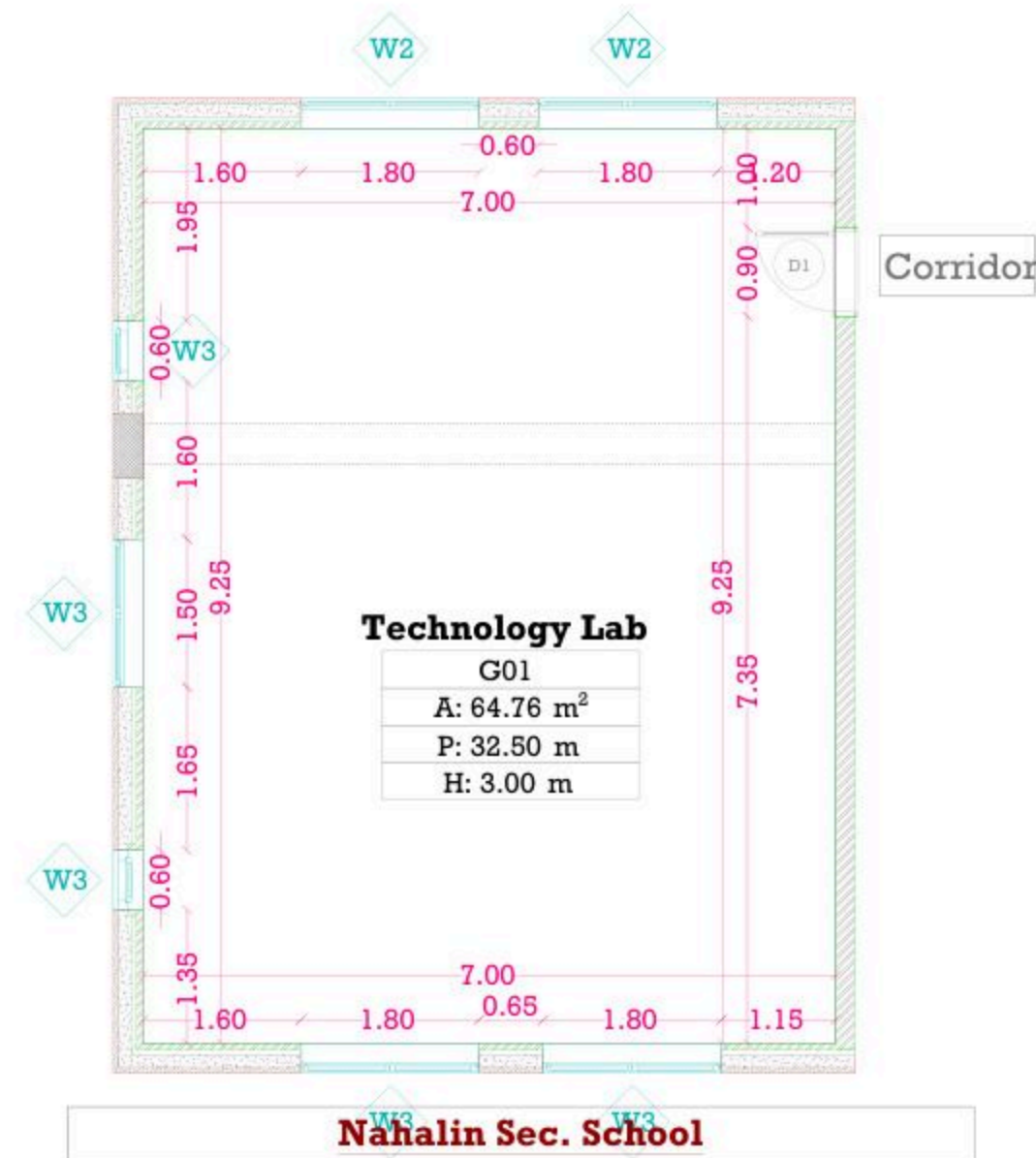
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

A01 Existing Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



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Project Team

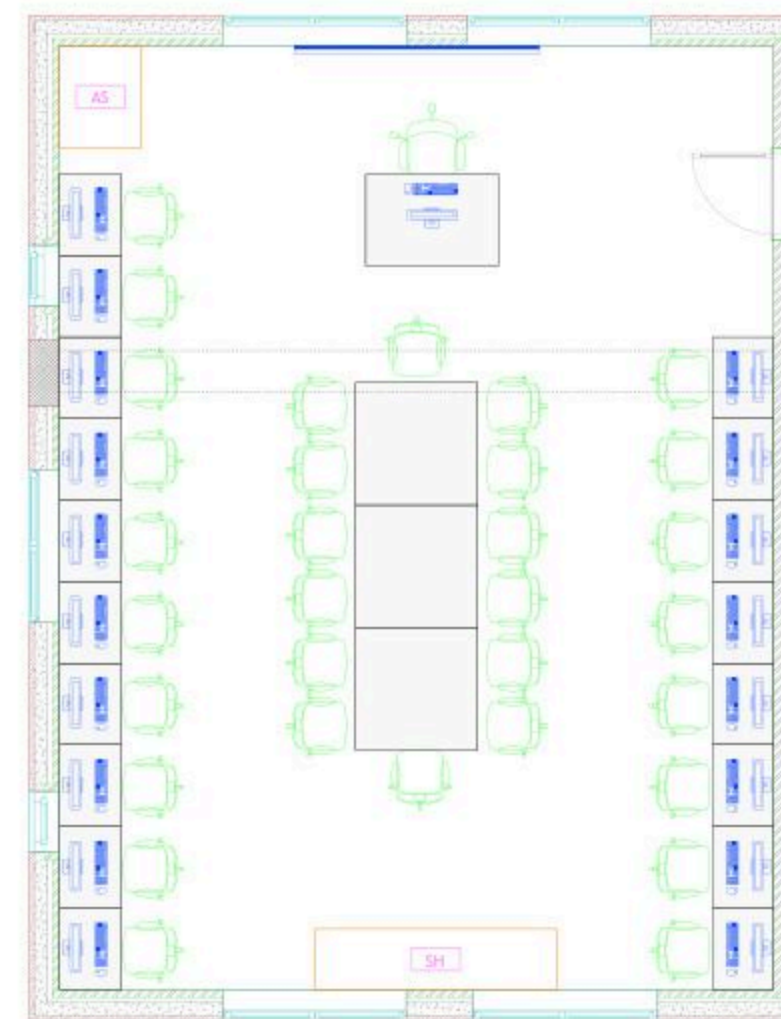
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

A03 Dimension Plan

Date: 5/12/2025

Scale: 1:100



Corridor

Technology Lab
G02
A: 64.76 m²
P: 32.50 m
H: 3.00 m

18 computer

14 STEM

Nahalin Sec. School

December - 2025

Project Name

Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



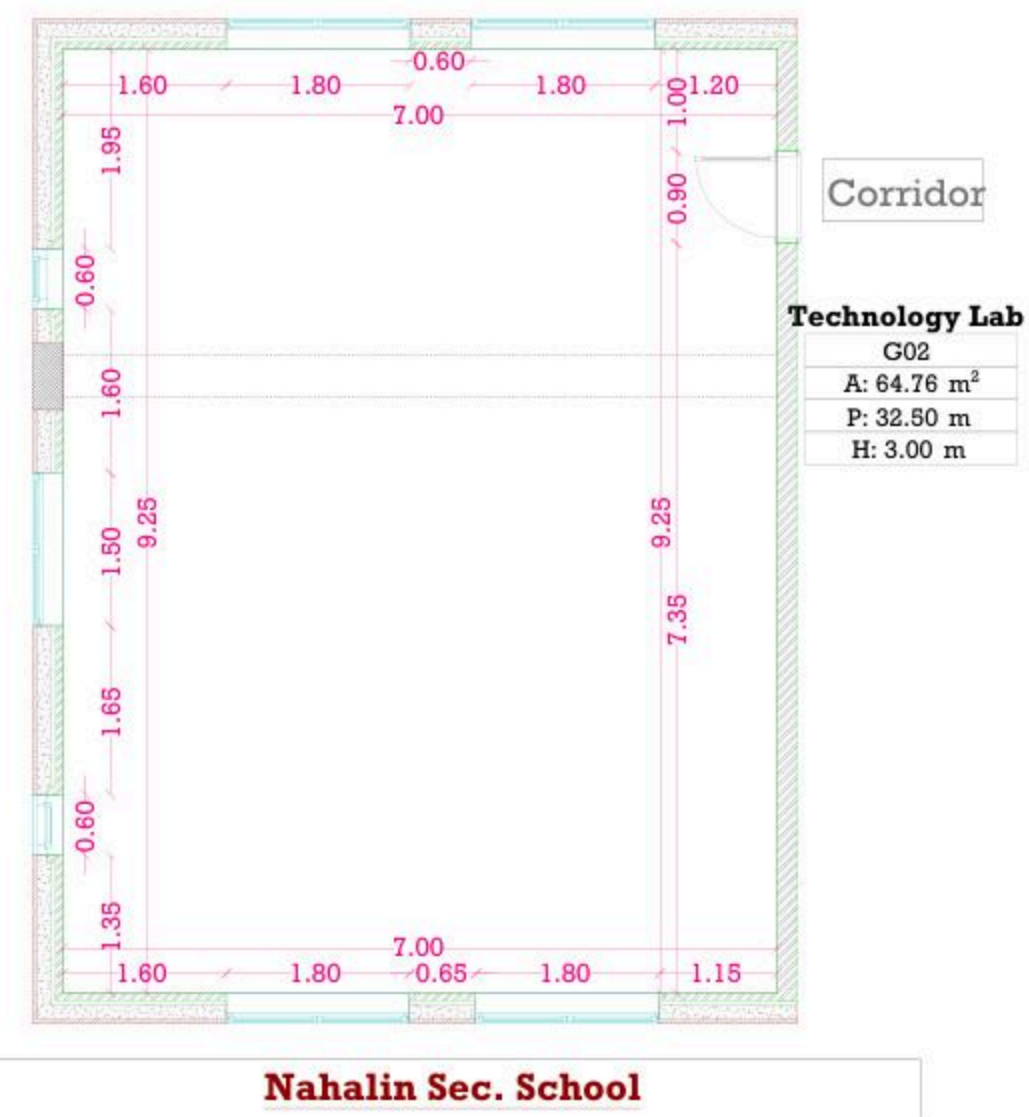
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A04	Furniture Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

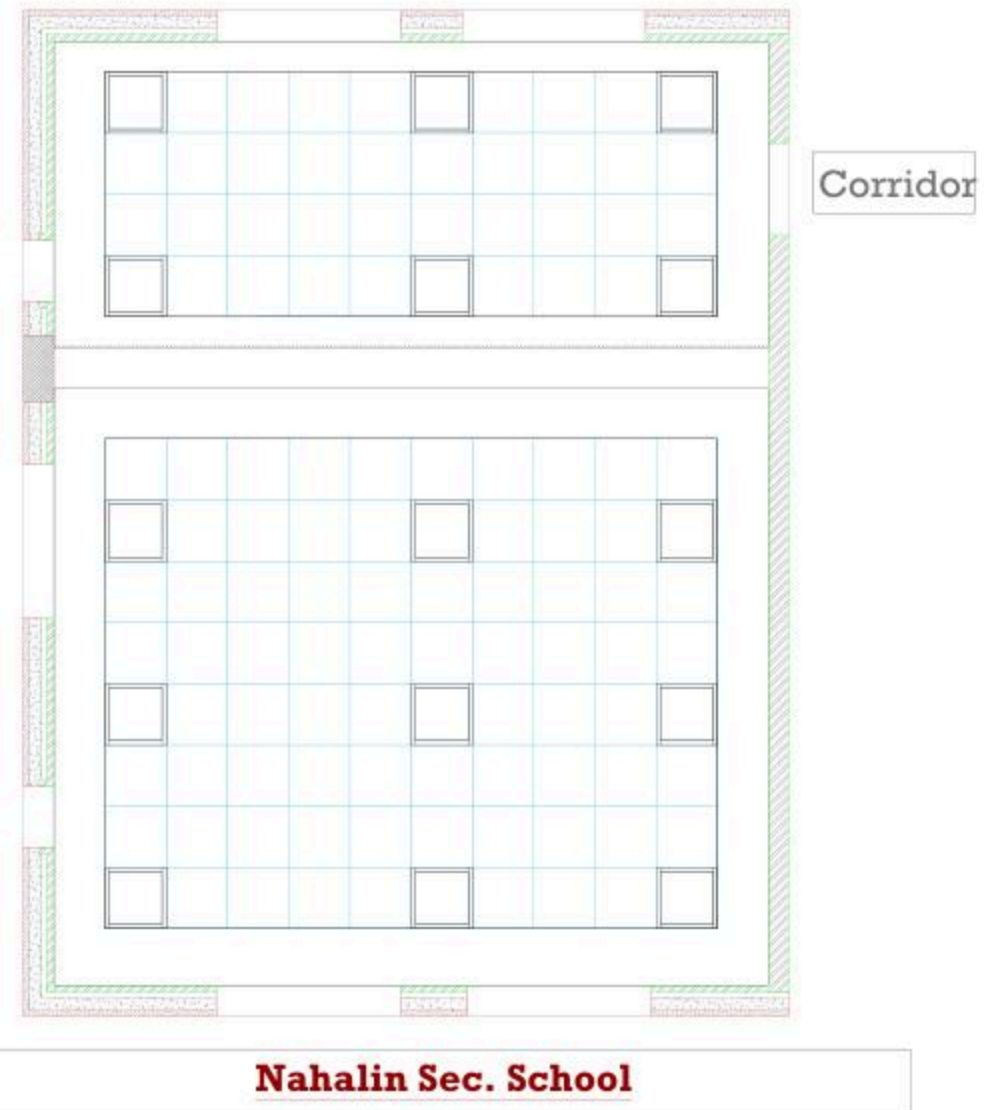


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A05	Ceiling Plan
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name

Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L. Rein. Concrete Level		Windows Number
	F.F.L. Finish Floor Level		Doors Number
	S.L. Sea Level		

Designer



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Project Team

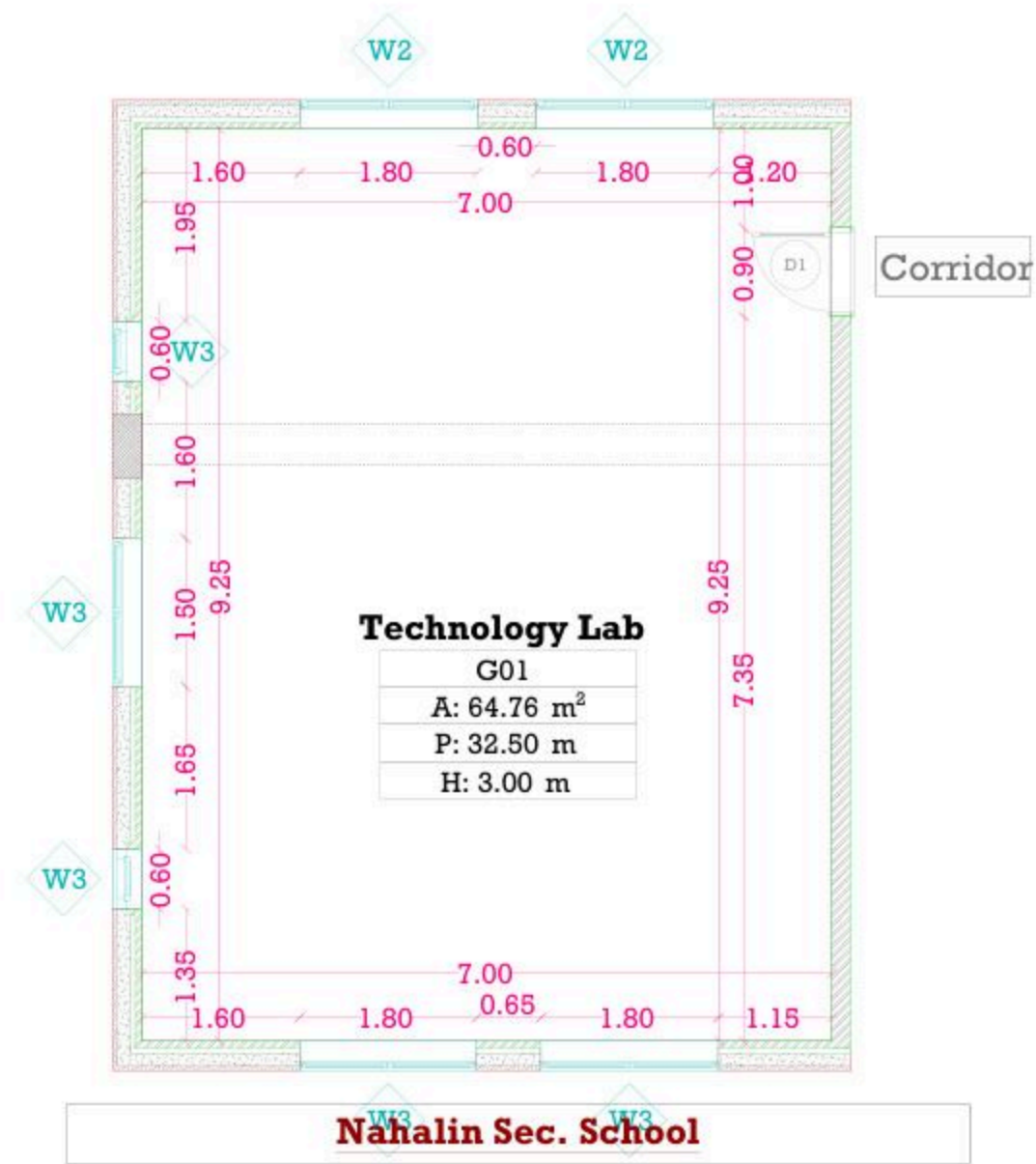
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

M01 Existing Plan

Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK” Lot 1



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

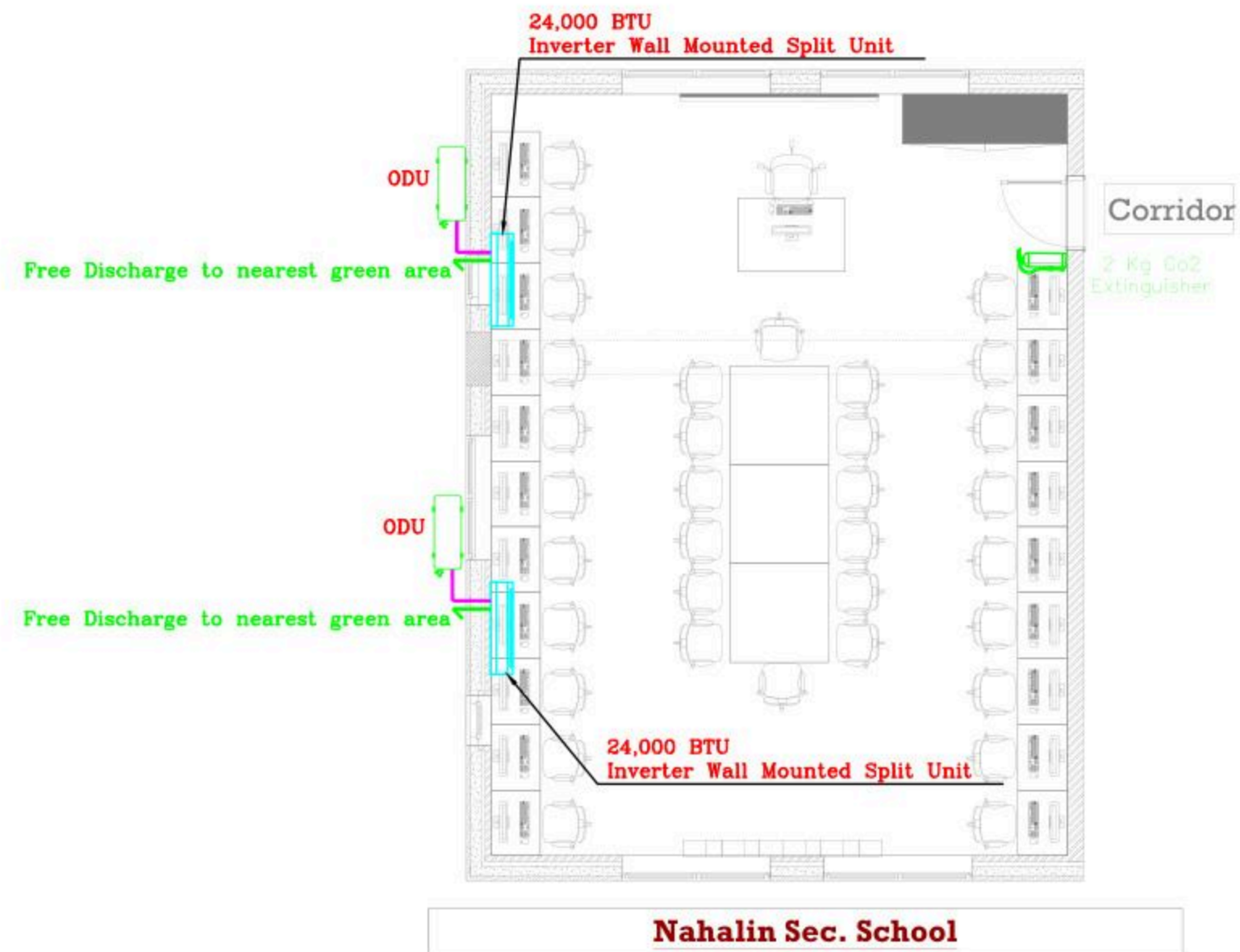


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M03	Dimension Plan
Date:	5/12/2025
Scale:	1:100



Technology Lab

G02
A: 64.76 m ²
P: 32.50 m
H: 3.00 m

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L Rein. Concrete Level	Windows Number
F.F.L Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

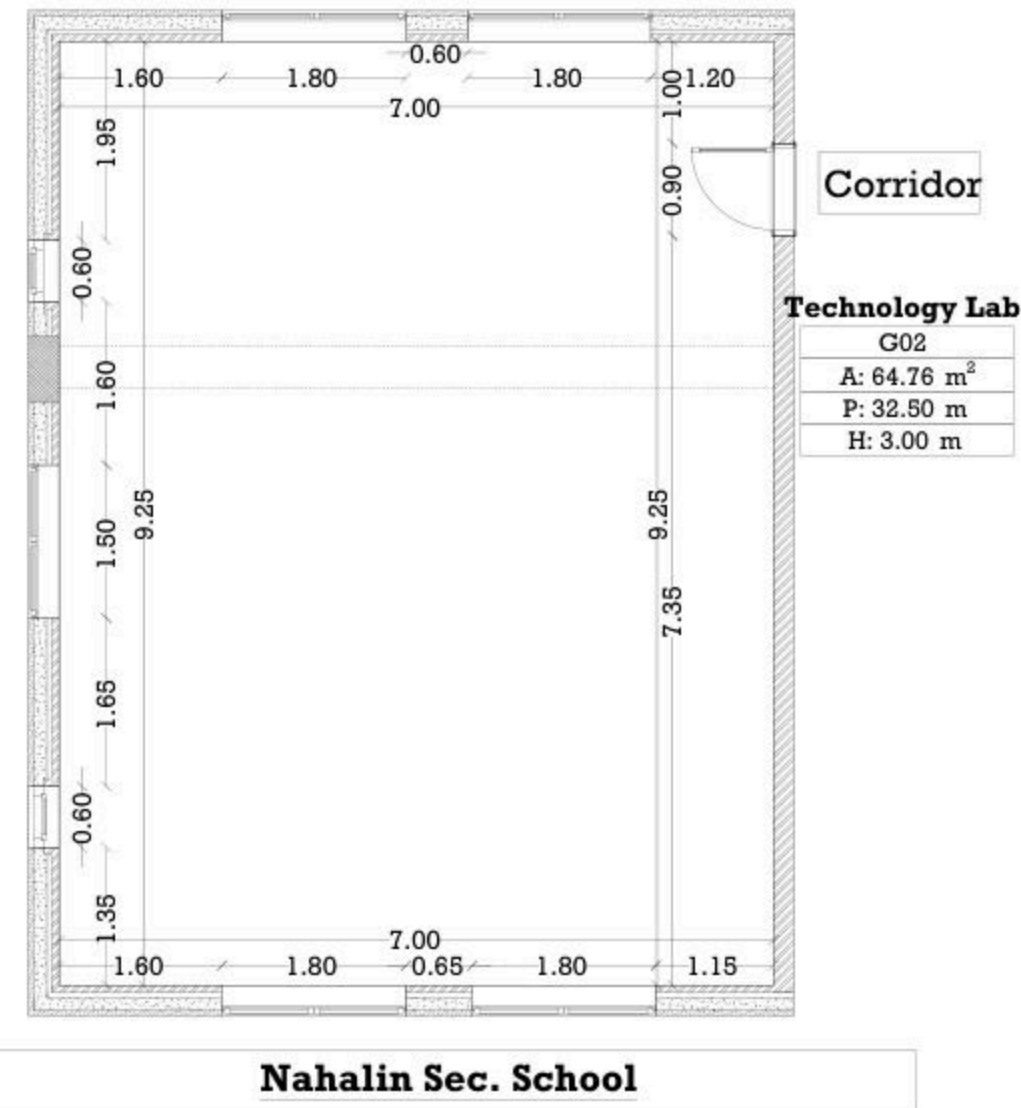


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M04	Furniture Plan
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"**
Lot 1



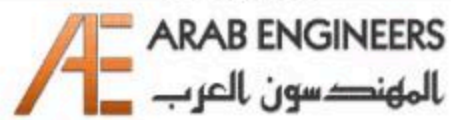
Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



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Project Team

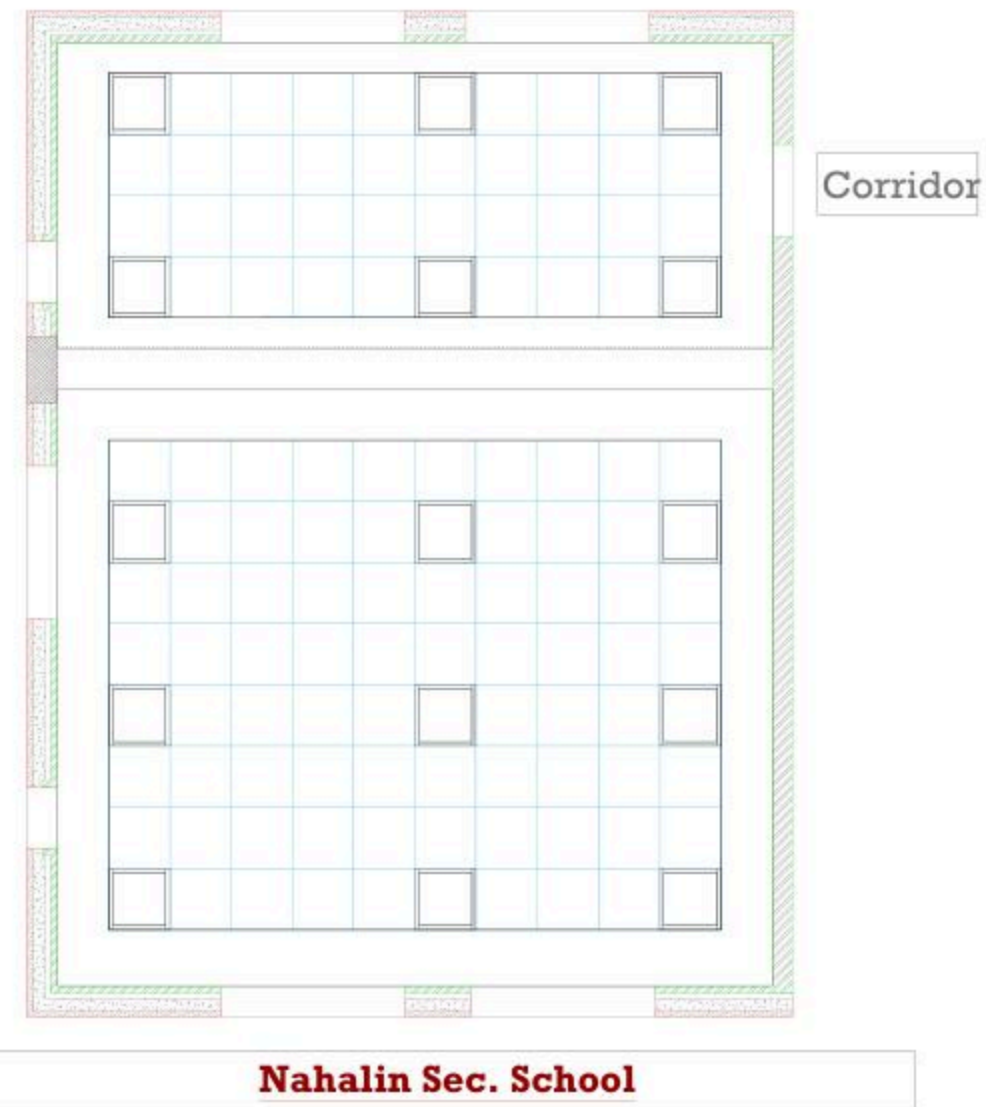
Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
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M05	Ceiling Plan
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Date: 5/12/2025

Scale: 1:100



December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
CREATION OF STEM LABS IN
SCHOOLS IN THE WEST BANK"
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L Rein. Concrete Level		Windows Number
	F.F.L. Finish Floor Level		Doors Number
	S.L. Sea Level		

Consultant



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Project Team

Team Leader	Arch. Malek Z. Murad
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Sheet No.	Sheet Title
E000	TITLES AND LEGEND

Date:	5/12/2025
Scale:	1:100

NO.	DESCRIPTION
E000	TITLE&LEGEND
E101	LIGHTING LAYOUT
E201	POWER LAYOUT
E301	LOW CURRENT LAYOUT
E401	POWER DIAGRAMS

SYMBOL	DESCRIPTION
A1	34W LED, 4500 LM, UGR 19, CRI 80, 4000K RECESS MOUNTED 60X60 CM MODULE WITH ALUMINIUM FRAME, PMMA OPAL DIFFUSER GALVANISED STEEL BACK PLATE COMPLETE WITH SEPARATE CONTROL GEAR CONVERTER MADE BY THE SAME FACTORY, IP40, IK03, 50000HR LED
A2	RECESS/SURFACE MOUNTED 3W LED EMERGENCY LIGHT 3HRS SELF-CONTAINED BATTERY, 100% LUMEN FACTOR IP20 SELF-TEST

SYMBOL	DESCRIPTION
	3-PIN,(1-PHASE) 16A SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	SOCKET ABOVE FALSE CEILING
	3-PIN,(1-PHASE) 16A SOCKET OUTLET RED COLOR CONNECTED TO UPS
	DITTO, BUT DOUBLE SOCKET OUTLET
	DITTO, BUT ABOVE FALSE CEILING
	5-PIN(3-PHASE) 16A SOCKET OUTLET
	20A AC SOCKET OUTLET
	ELECTRICAL BELL
	ELECTRIC BOX.
	WALL EXTRACT FAN
	IN-LINE EXTRACT FAN
	2-POLE ISOLATING SWITCH
	4-POLE ISOLATING SWITCH
	AC UNIT,OUTDOOR,INDOOR.
	CIRCUIT BREAKER,MCB,MCCB
	EARTH LEAKAGE RELAY (RCD)
	AUTOMATIC TRANSFER SWITCH (ATS)
	HAND DRYER OUTLET
	HOT WATER CYLINDER
	WATER PUMP
	THERMOSTAT OUTLET
	FAN COIL UNIT
	CENTRIFUGAL EXTRACT FAN
	ONE-WAY SWITCH SINGLE POLE/ONE GANG,TWO GANG, THREE GANG,DOUBLE POLE SWITCH.
	TWO-WAY SINGLE POLE SWITCH/INTERMEDIATE, CROSS SWITCH
	SWITCH PANNEL
	PUSH BUTTON
	SHUTTER,DOOR MOTOR
	SHUTTER SWITCH UP/DN
	TELEPHONE SOCKET OUTLET
	RJ45 DATA SOCKET OUTLET
	WIRELESS ACCESS POINT-WI-FI
	SATELLITE SOCKET OUTLET
	INDOOR INTERCOM UNIT
	OUTDOOR INTERCOM UNIT
	ADSL ROUTER
	DOME CAMERA
	BOX CAMERA
	360°DOME CAMERA
	LOW VOLTAGE BOARD
	DATA RACK CABINET
	DISTRIBUTION BOARDS/MAIN,SUB

SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HEAT DETECTOR
	GAS DETECTOR
	MANUAL PULL STATION/BREAK GLASS UNIT
	INDICATION LAMP
	INDOOR SIREN AUDIO ONLY
	OUTDOOR SIREN AUDIOVISUAL.
	CONTROL MODULE
	REPEATER PANEL
	FIRE ALARM CONTROL PANEL
	MOTION DETECTOR
	360° MOTION DETECTOR
	VIBRATION DETECTOR
	MAGNETIC CONTACTS
	HAND PANIC BUTTON
	FOOT PANIC BUTTON
	KEYBAD
	INTRUSION INDOOR SIREN AUDIO ONLY
	INTRUSION OUTDOOR SIREN AUDIOVISUAL.
	BURGLAR ALARM CONTROL PANEL
	PROXIMITY HID CARD READER
	DOOR LOCK
	REQUEST TO EXIT PUSH BUTTON
	SUPERVISORY MAGNETIC CONTACTS
	JUNCTION BOX
	ACCESS CONTROL PANEL
	TICKET DISPENSER UNIT (TDU)
	COUNTER DISPLAY UNIT (CDU)
	TELLER STATION UNIT (TSU)
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	HORN SPEAKER
	VOLUME CONTROL
	MIC SOCKET OUTLET
	MIC STATION
	PAVA RACK
	MULTI OUTLET WALL MOUNTED BOX,12/18 MODULE
	FLOOR MOUNTED MULTI OUTLET BOX,16 MODULE

GENERAL NOTES
1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.
2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.
3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.
4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.
5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).
6-The height of the top edge of the power Distribution Board above FFL to be 180 cm.
7-All panel boards shall be with doors, and shall be wether water proof in wet areas.
8-The main C.Bs shall be air insulated, adjustable, with magnetic and thermal protection, and have a min. rupturing capacity of 25 k.A.
9-The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.
11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.
12- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop
Galvanized steel strips should not be less than 30*3mm
Earth resistance measuring shall be carried before backfilling.

December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
CREATION OF STEM LABS IN
SCHOOLS IN THE WEST BANK"
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Consultant

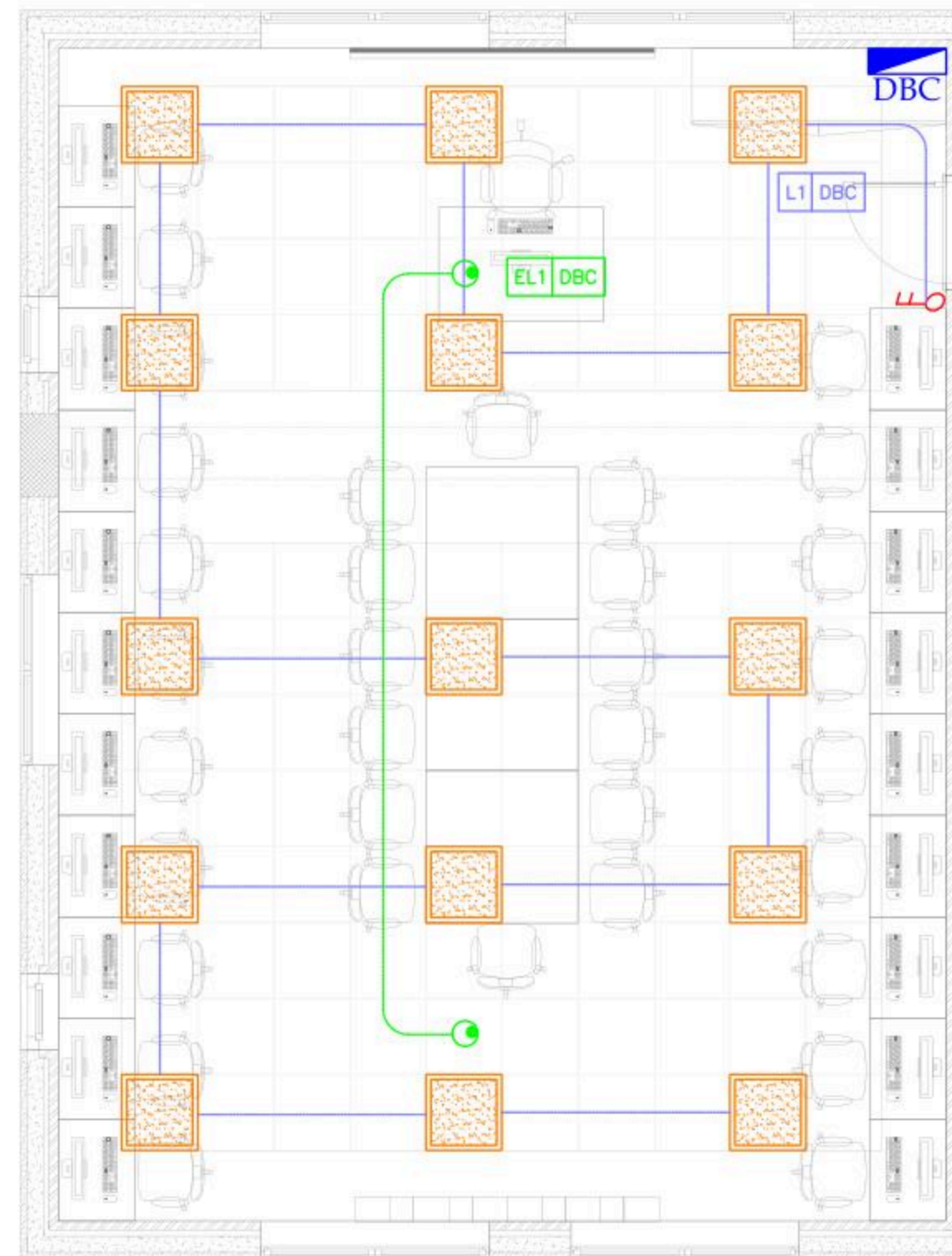


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Email: info@arabengineers-Pal.com
Web-Site: www.arabengineers-Pal.com

Project Team

Team Leader	Arch. Malek Z. Murad
-------------	----------------------

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT
Date:	5/12/2025
Scale:	1:100



Nahalin Sec. School

December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L. Rein. Concrete Level		Windows Number
	F.F.L. Finish Floor Level		Doors Number
	S.L. Sea Level		

Consultant



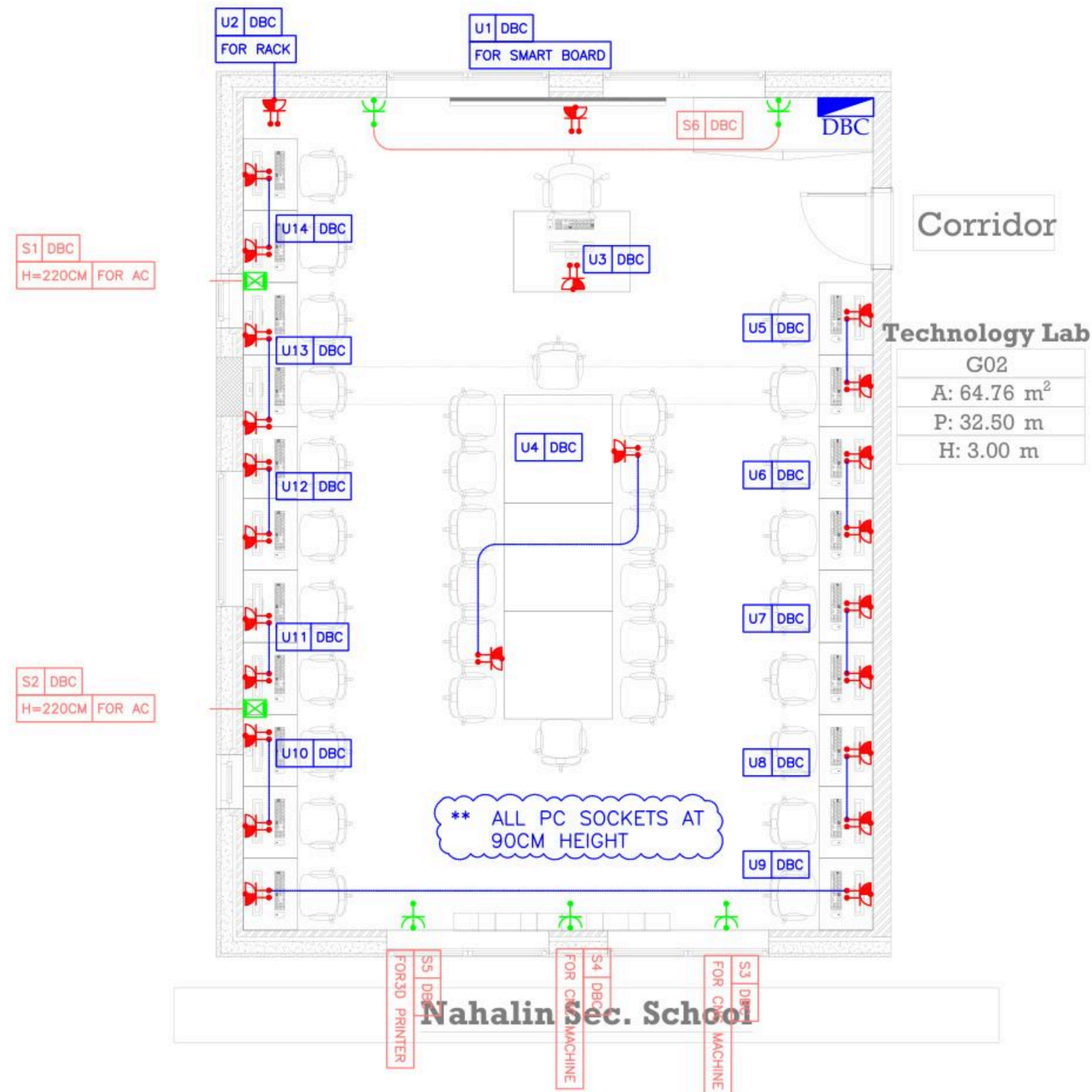
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E201	POWER LAYOUT

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D1 Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W1 Windows Number
F.F.L. Finish Floor Level	D1 Doors Number
S.L. Sea Level	

Consultant



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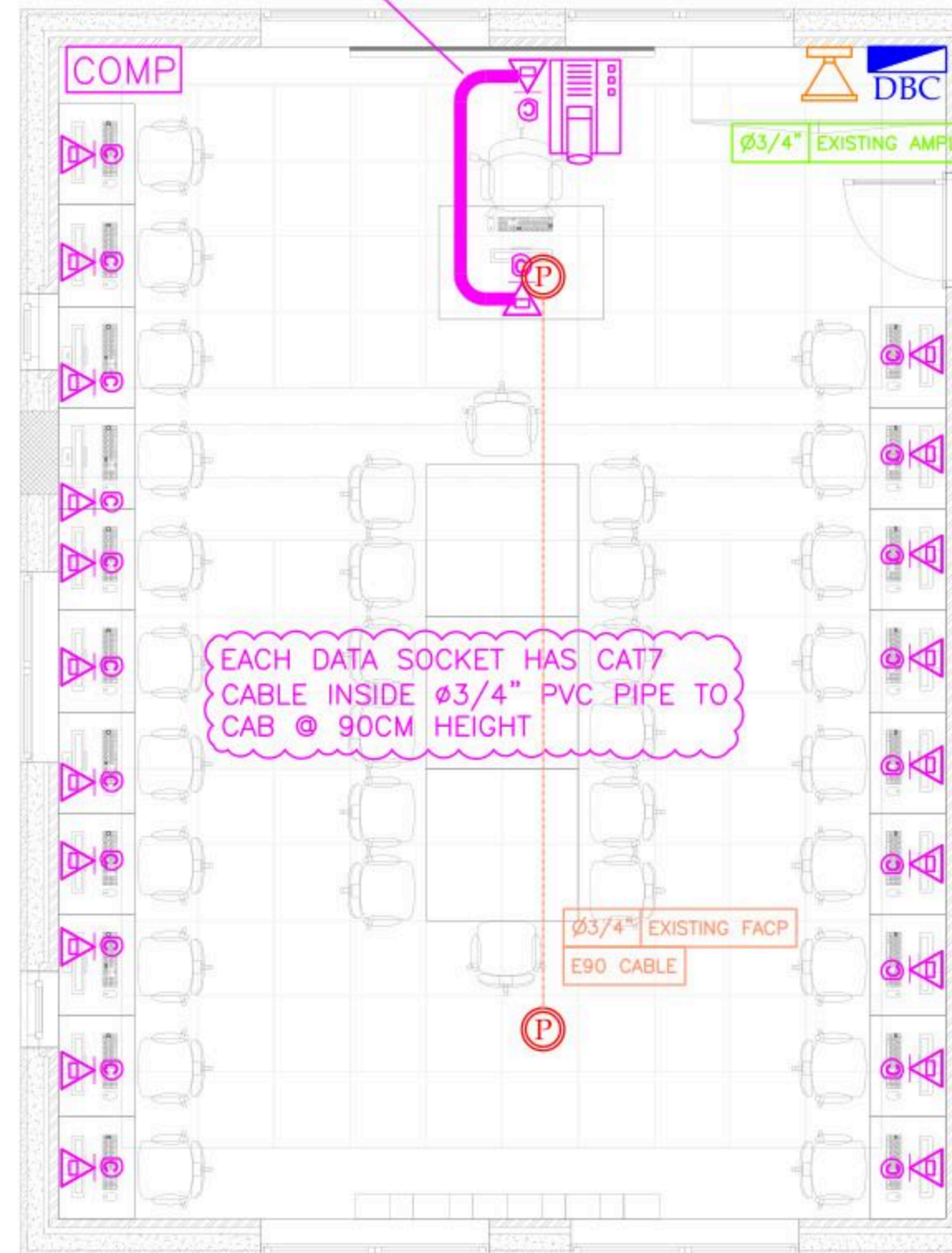
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E301	LOW CURRENT LAYOUT

Date: 5/12/2025
Scale: 1:100

1.25" PIPE FOR HDMI CABLE



Corridor

Technology Lab

G02

A: 64.76 m²

P: 32.50 m

H: 3.00 m

Nahalin Sec. School

December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
CREATION OF STEM LABS IN
SCHOOLS IN THE WEST BANK"
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W1 Windows Number
F.F.L. Finish Floor Level	D1 Doors Number
S.L. Sea Level	

Consultant



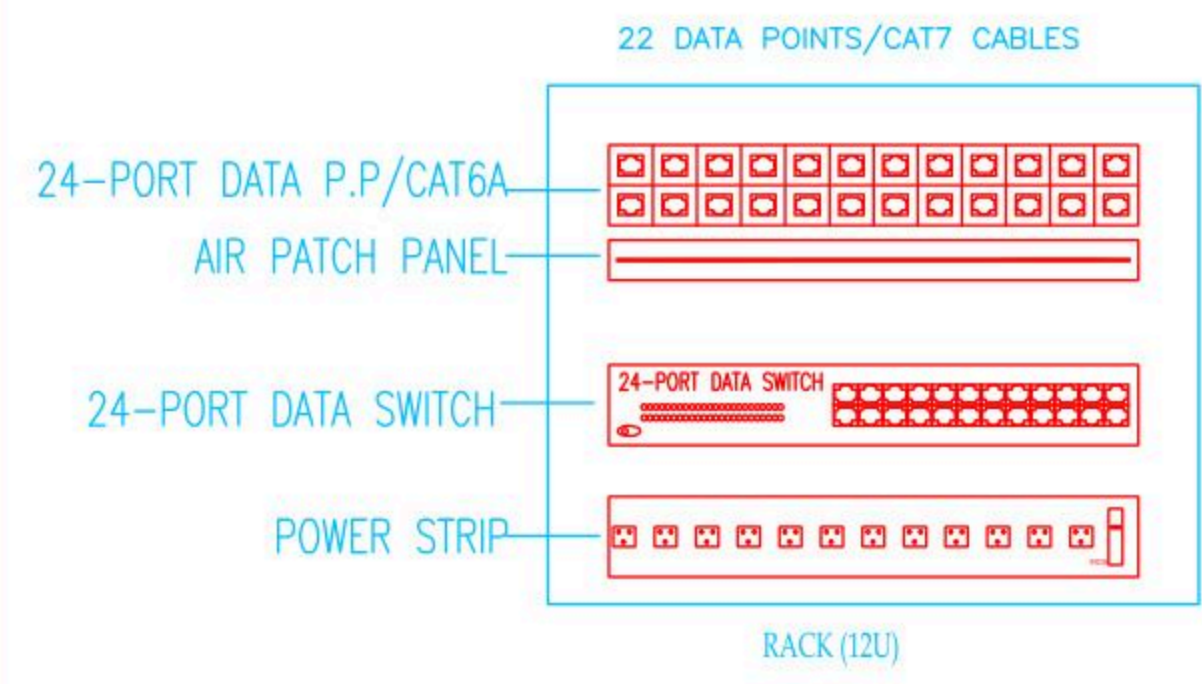
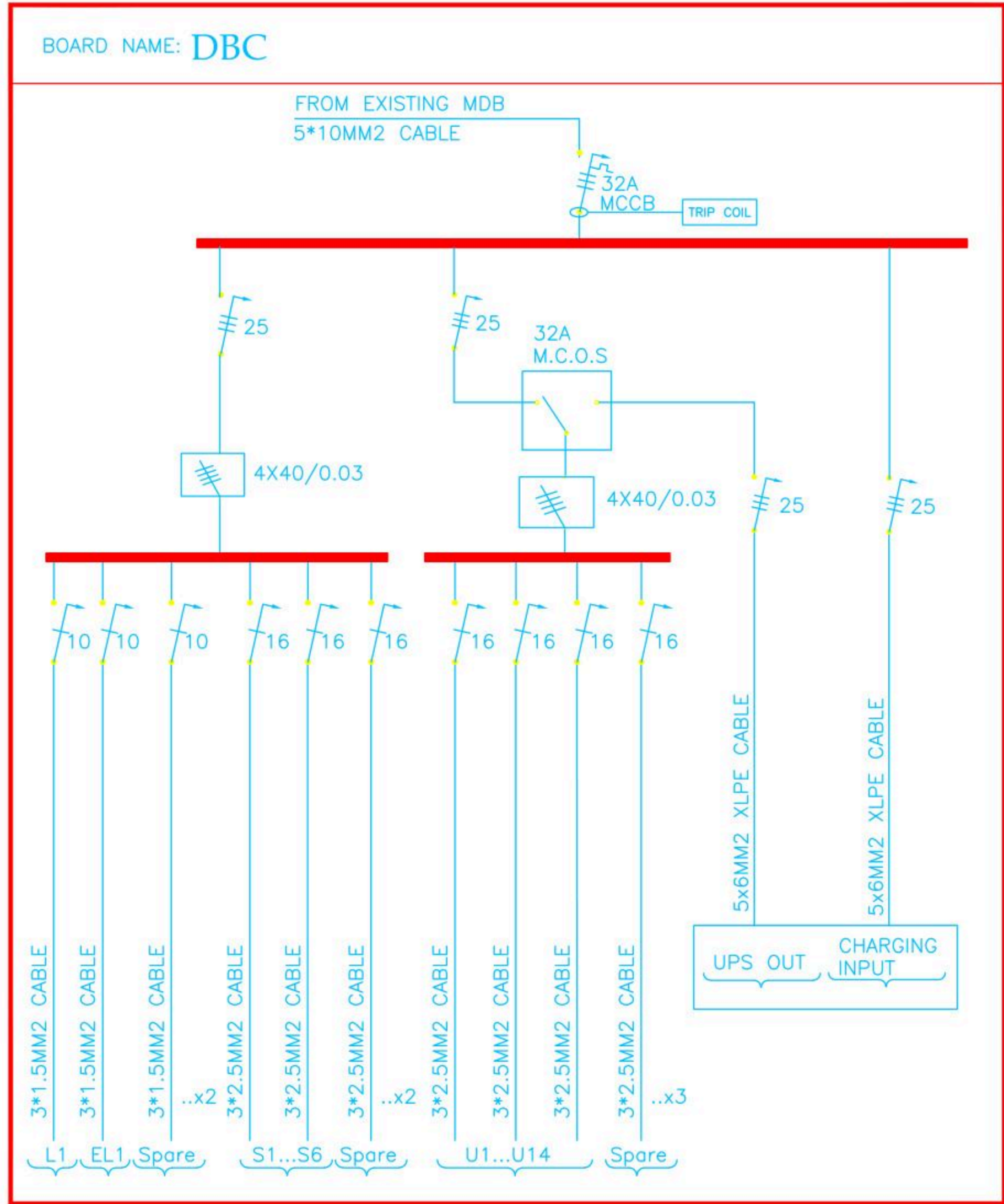
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Project Team

Team Leader	Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date:	5/12/2025
Scale:	1:100





Belgium
partner in development

Rehabilitation and/or creation of STEM Labs in schools in the West Bank

Lot 1 Southern Governorates

Idna Girls Sec. School

Conslutant

Implemtened By

AE ARAB ENGINEERS
المهندسون العرب

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Website:	www.arabengineers-Pal.com		

Enabel 

REVISION [01]

Wednesday, December 5, 2025

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

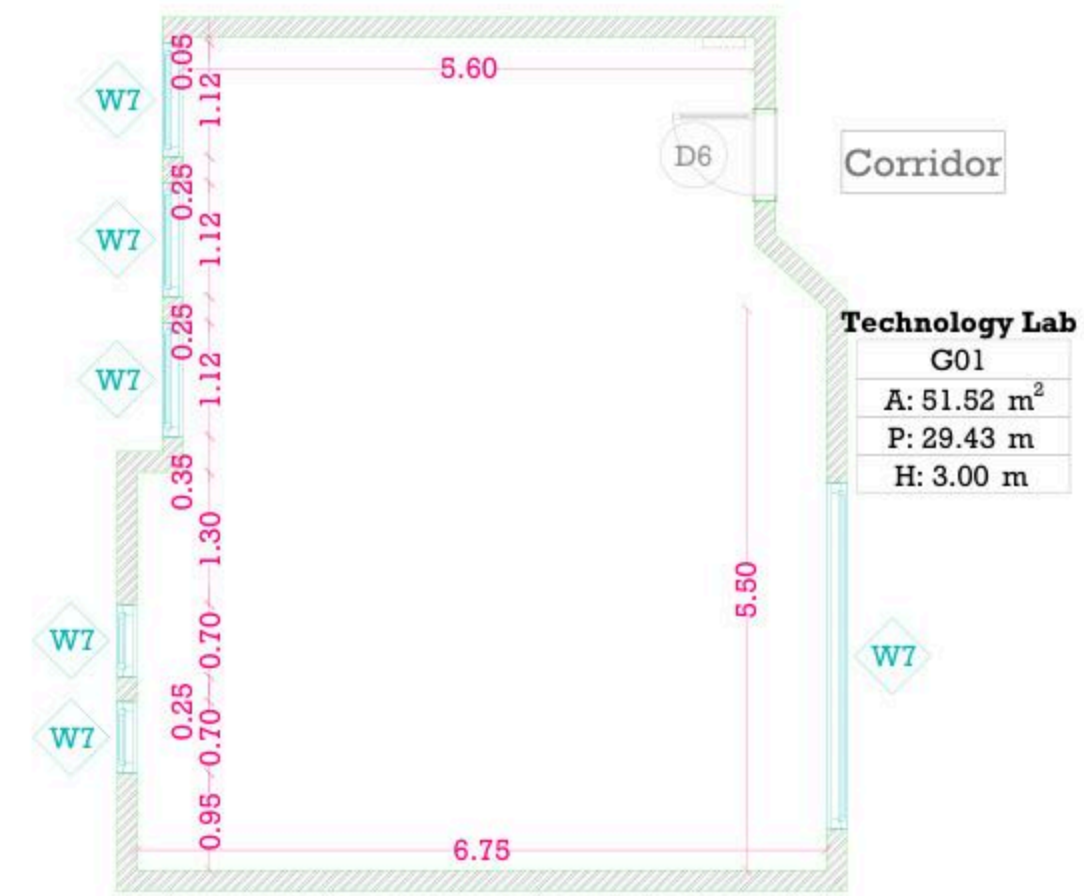


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A01	Existing Plan
Date:	5/12/2025
Scale:	1:100



Idna Girls Sec. School

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



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Email: info@arabengineers-Pal.com
Web-Site: www.arabengineers-Pal.com

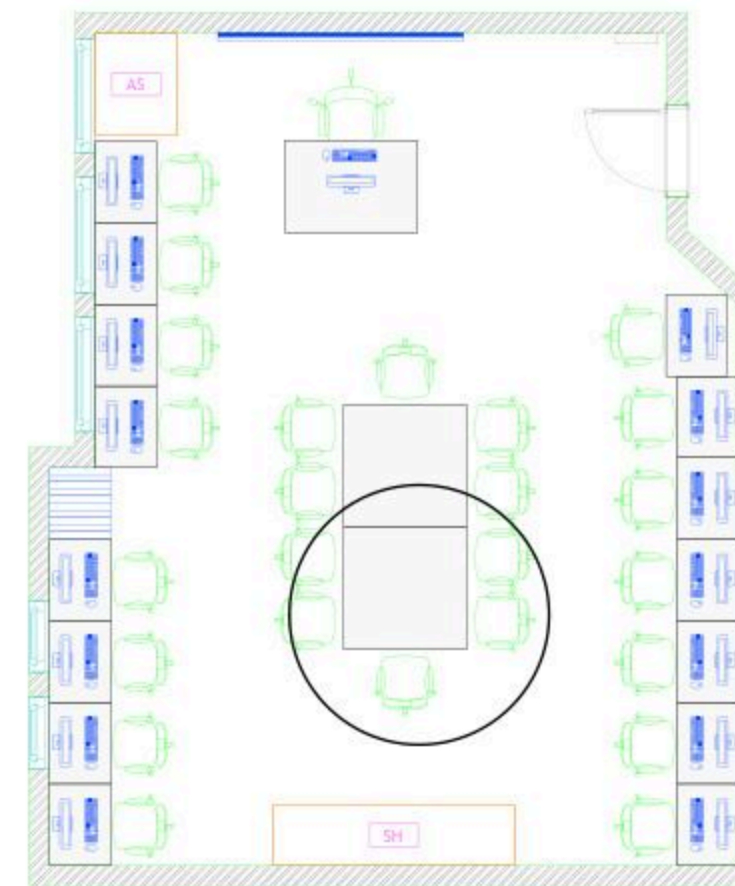
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A03	Dimension Plan

Date: 5/12/2025

Scale: 1:100



Corridor

Technology Lab

G01
A: 51.52 m ²
P: 29.43 m
H: 3.00 m

15 computer

10 STEM

Idna Girls Sec. School

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



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Project Team

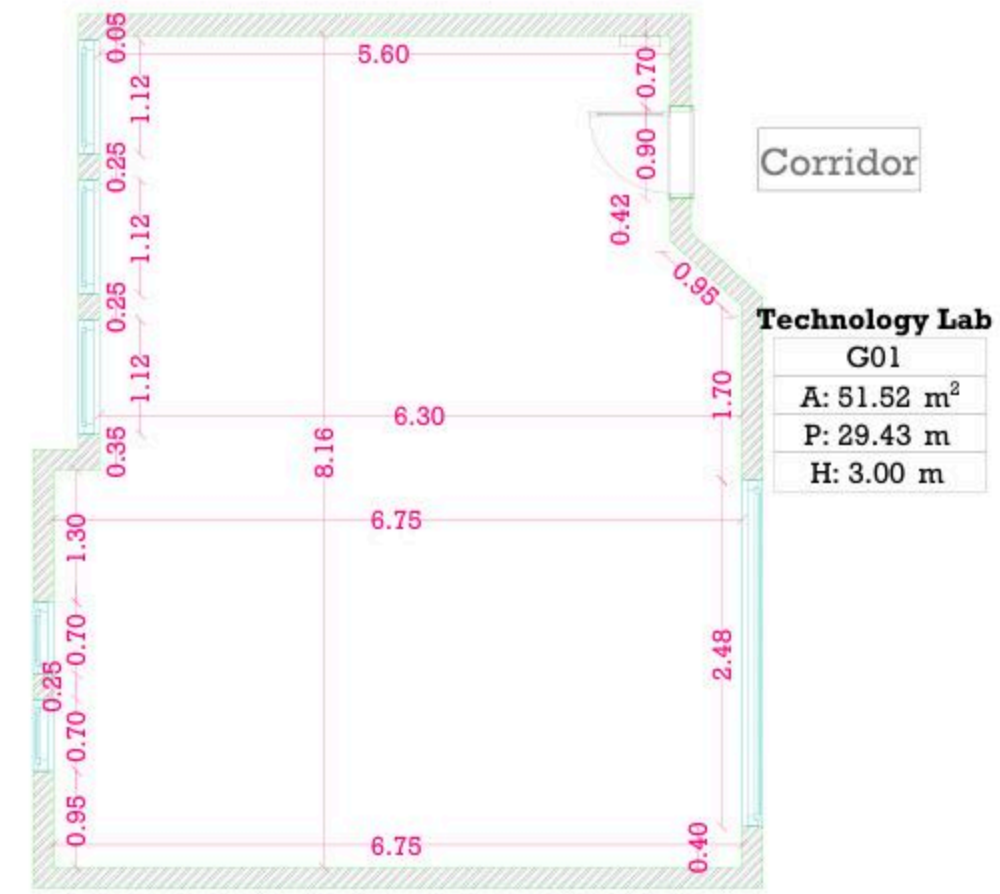
Team Leader Arch. Malek Z. Murad

Sheet No. **Sheet Title**

A04 Furniture Plan

Date: 5/12/2025

Scale: 1:100



Idna Girls Sec. School

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"**
Lot 1



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L. Rein. Concrete Level		Windows Number
	F.F.L. Finish Floor Level		Doors Number
	S.L. Sea Level		

Designer



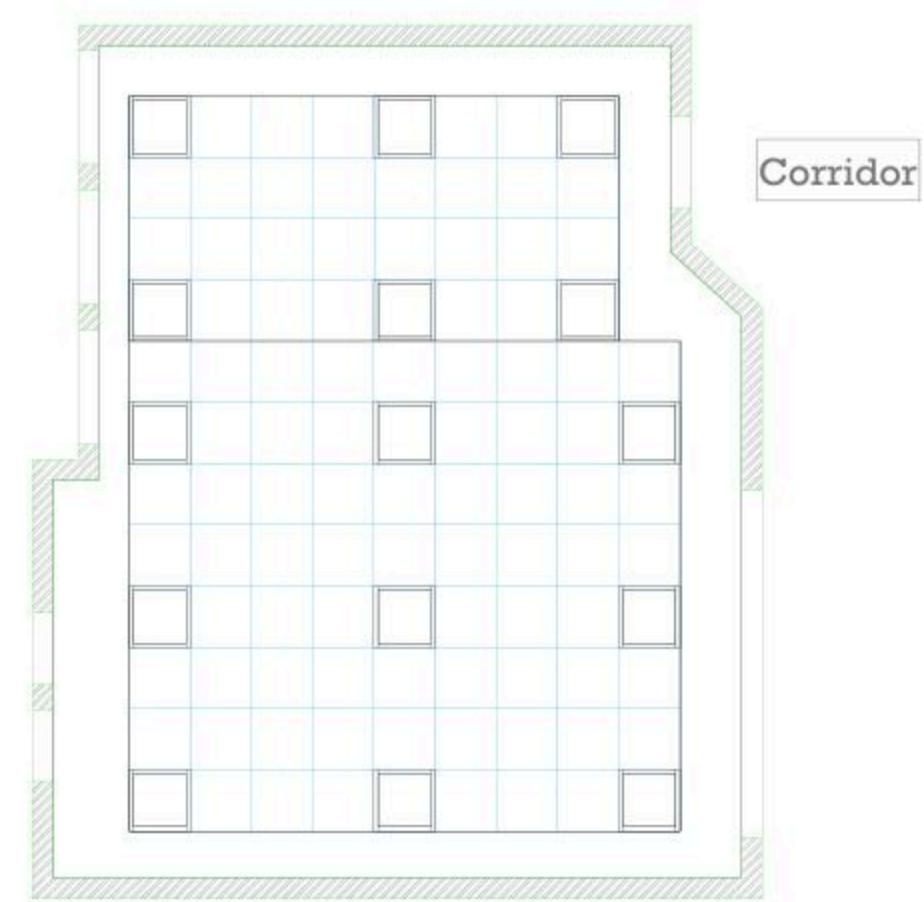
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Web-Site: www.arabengineers-Pal.com

Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A05	Ceiling Plan

Date: 5/12/2025
Scale: 1:100



Idna Girls Sec. School

December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

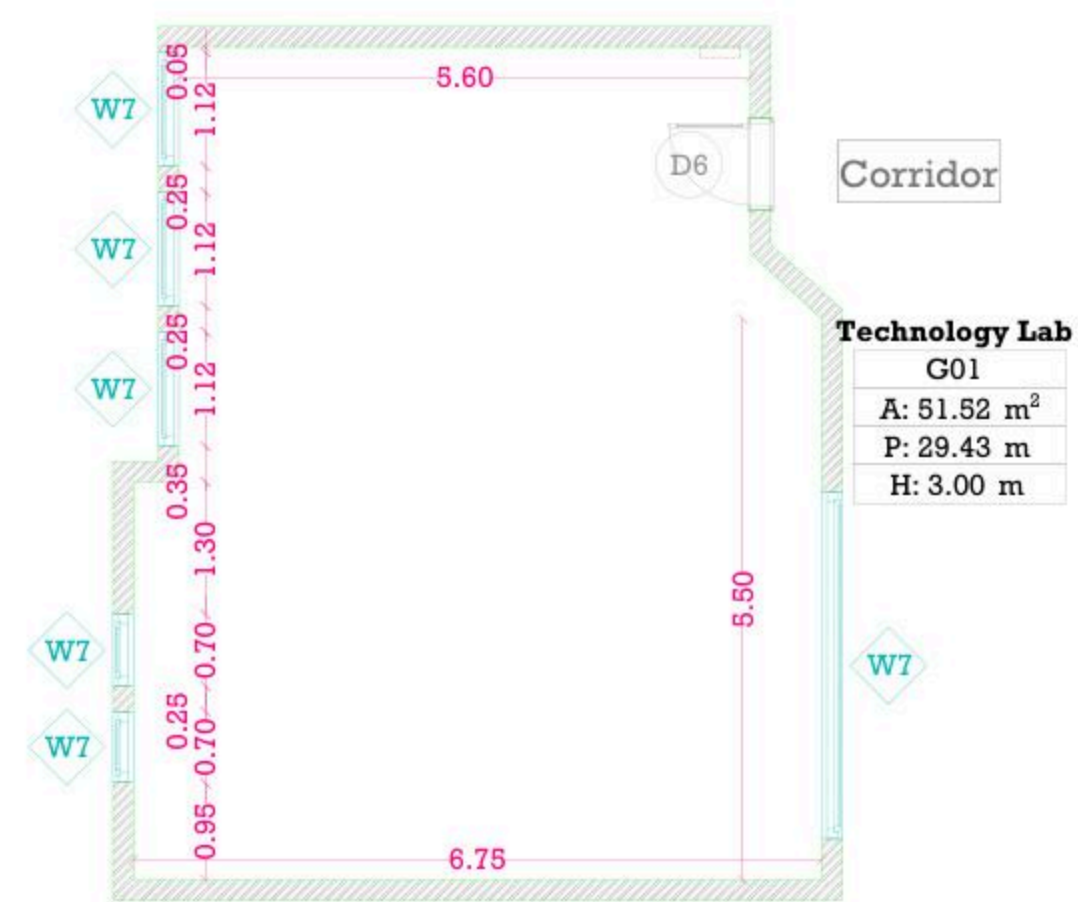


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Web-Site: www.arabengineers-Pal.com

Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M01	Existing Plan
Date:	5/12/2025
Scale:	1:100



Technology Lab

G01
A: 51.52 m ²
P: 29.43 m
H: 3.00 m

Idna Girls Sec. School

December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK" Lot 1



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

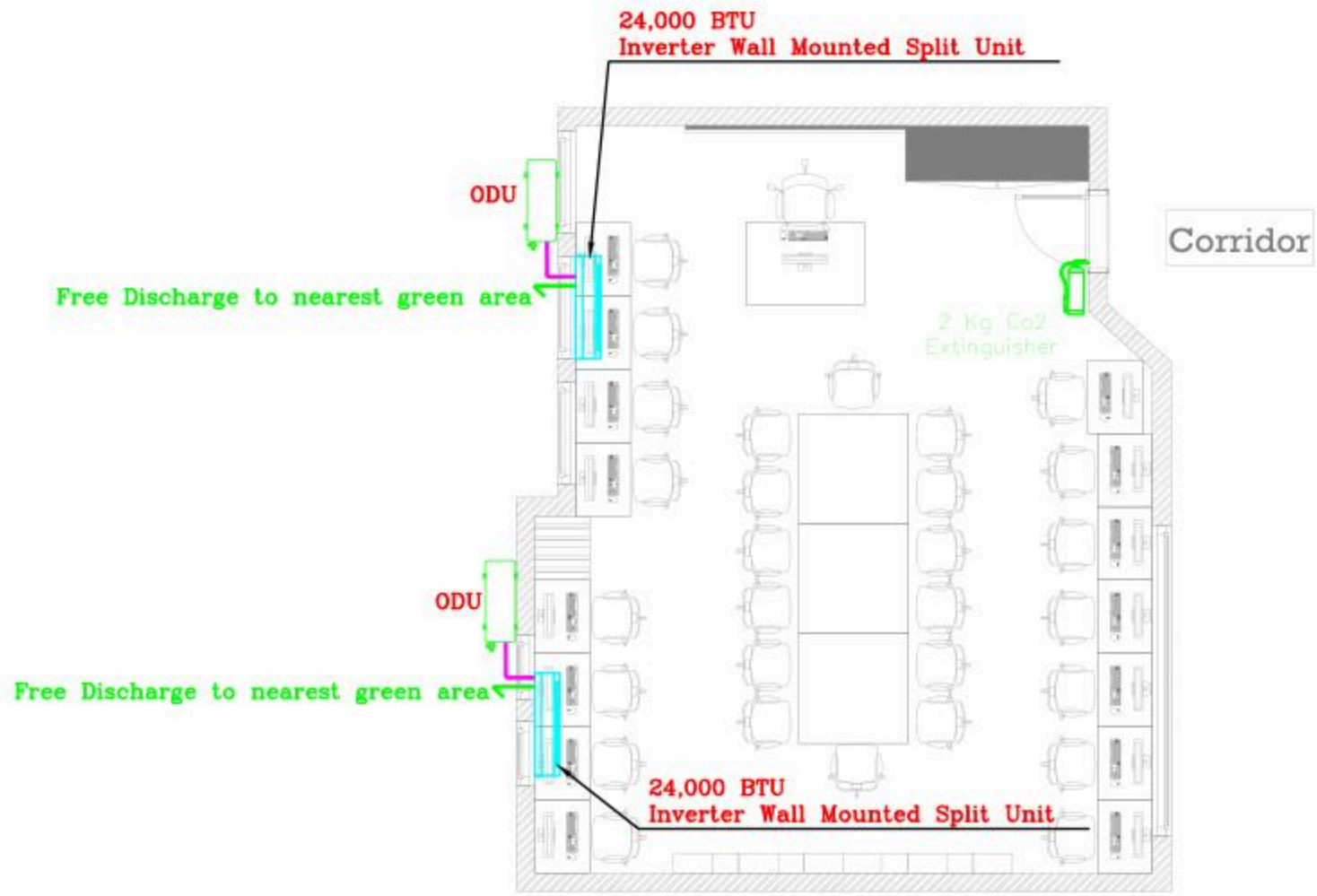


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Web-Site: www.arabengineers-Pal.com

Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M03	Dimension Plan
Date:	5/12/2025
Scale:	1:100



Idna Girls Sec. School

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



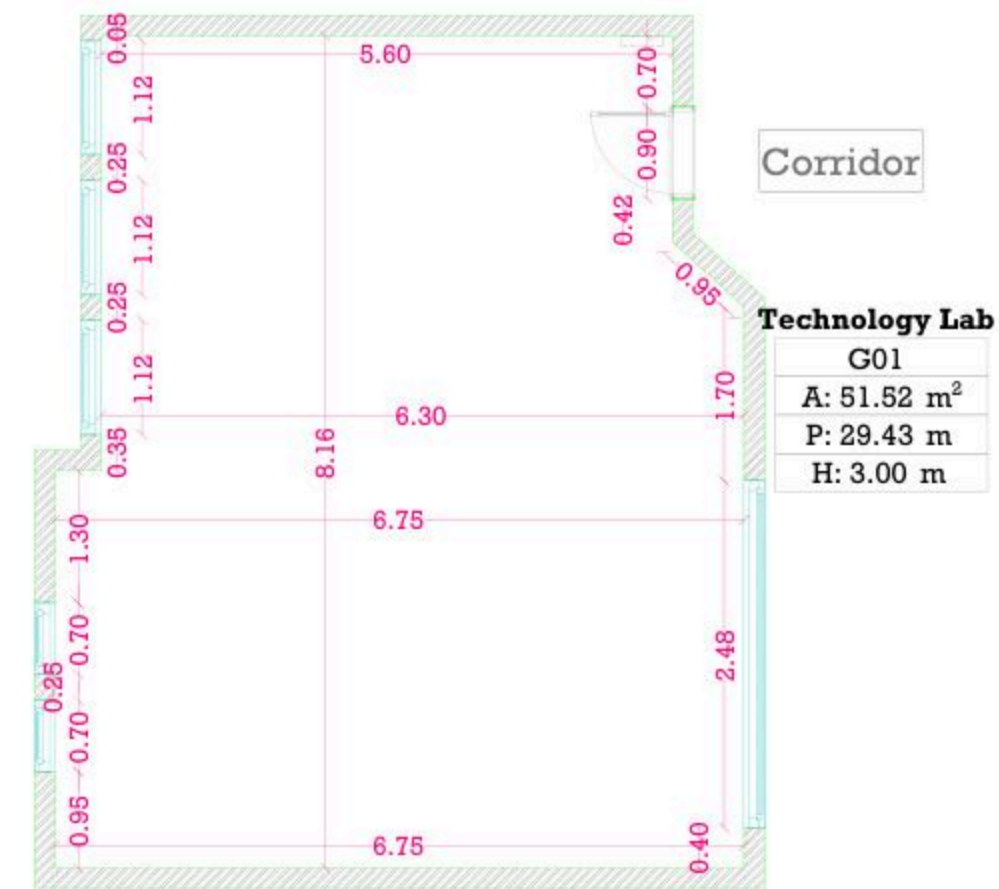
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Web-Site: www.arabengineers-Pal.com

Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M04	Furniture Plan

Date: 5/12/2025
Scale: 1:100



Idna Girls Sec. School

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority
Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



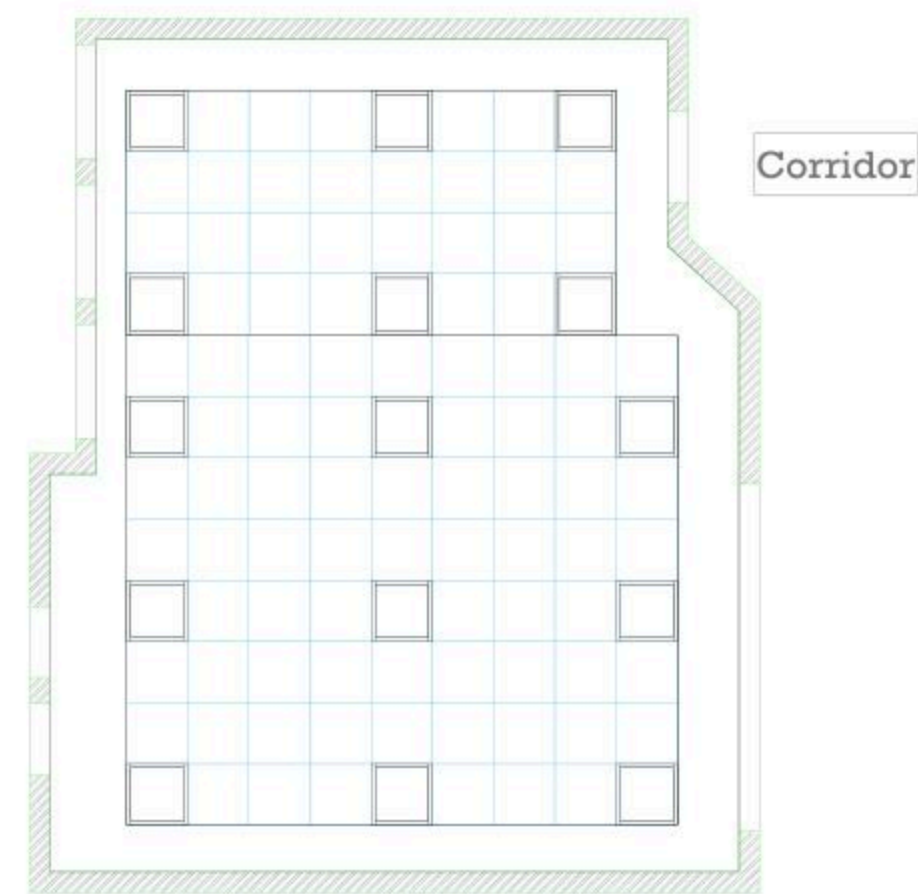
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M05	Ceiling Plan

Date: 5/12/2025
Scale: 1:100



Idna Girls Sec. School

December - 2025

Project Name
**Public works contract FOR THE
REHABILITATION AND/OR
CREATION OF STEM LABS IN
SCHOOLS IN THE WEST BANK”
Lot 1**



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Consultant



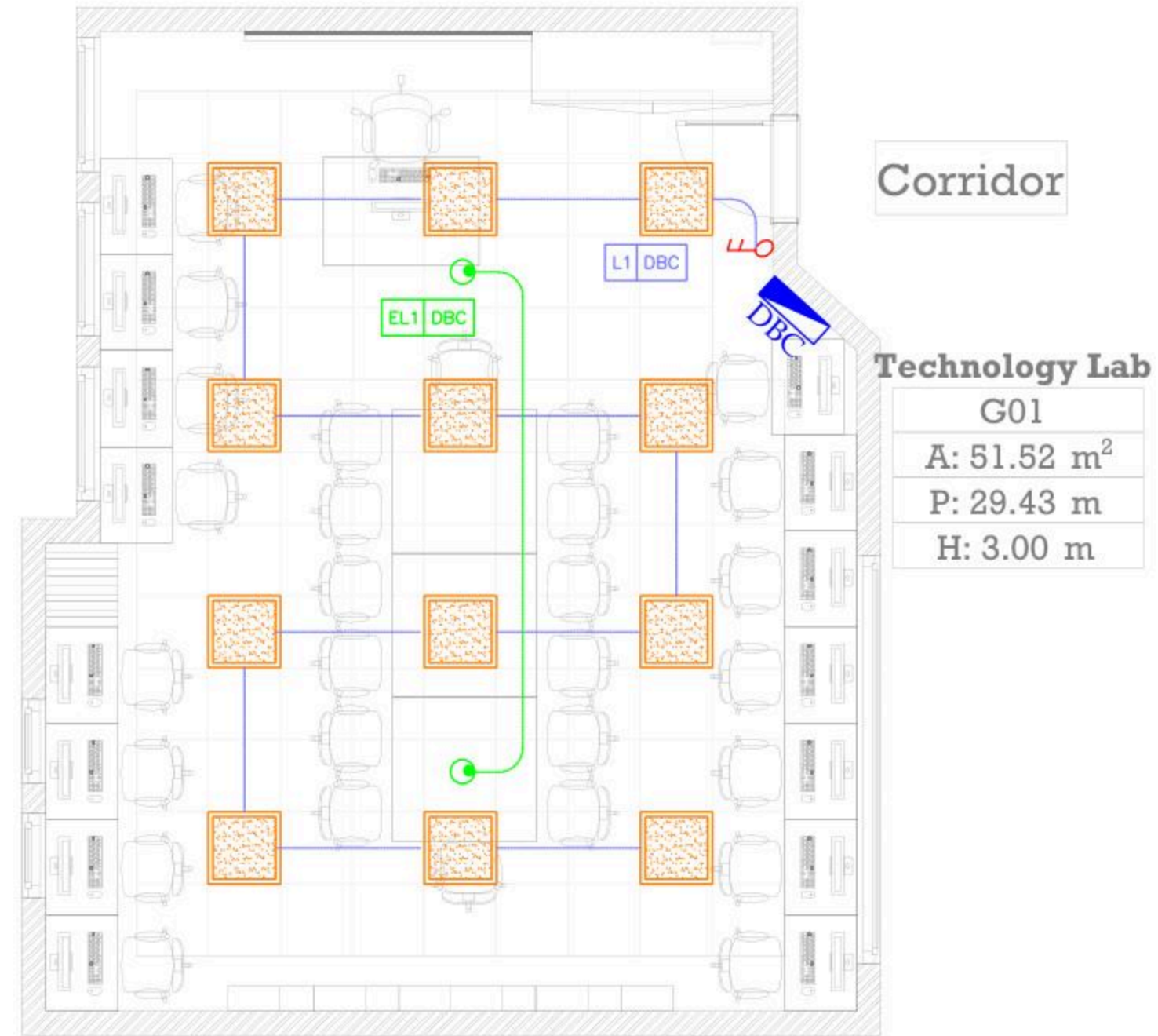
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date: 5/12/2025
Scale: 1:100



Idna Girls Sec. School

December - 2025

Project Name

Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK” Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L. Rein. Concrete Level		Windows Number
	F.F.L. Finish Floor Level		Doors Number
	S.L. Sea Level		

Consultant

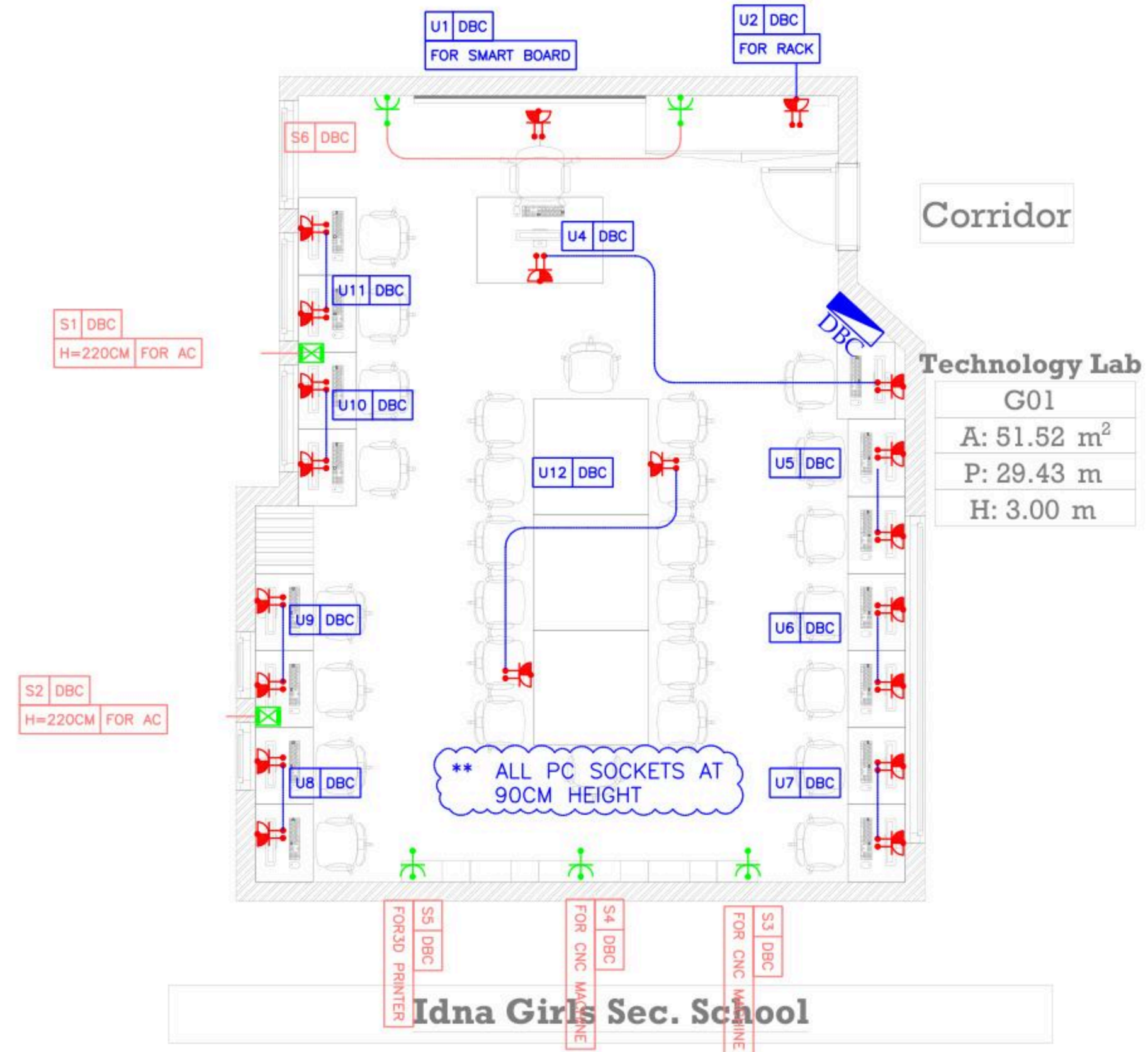


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E201	POWER LAYOUT
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Consultant



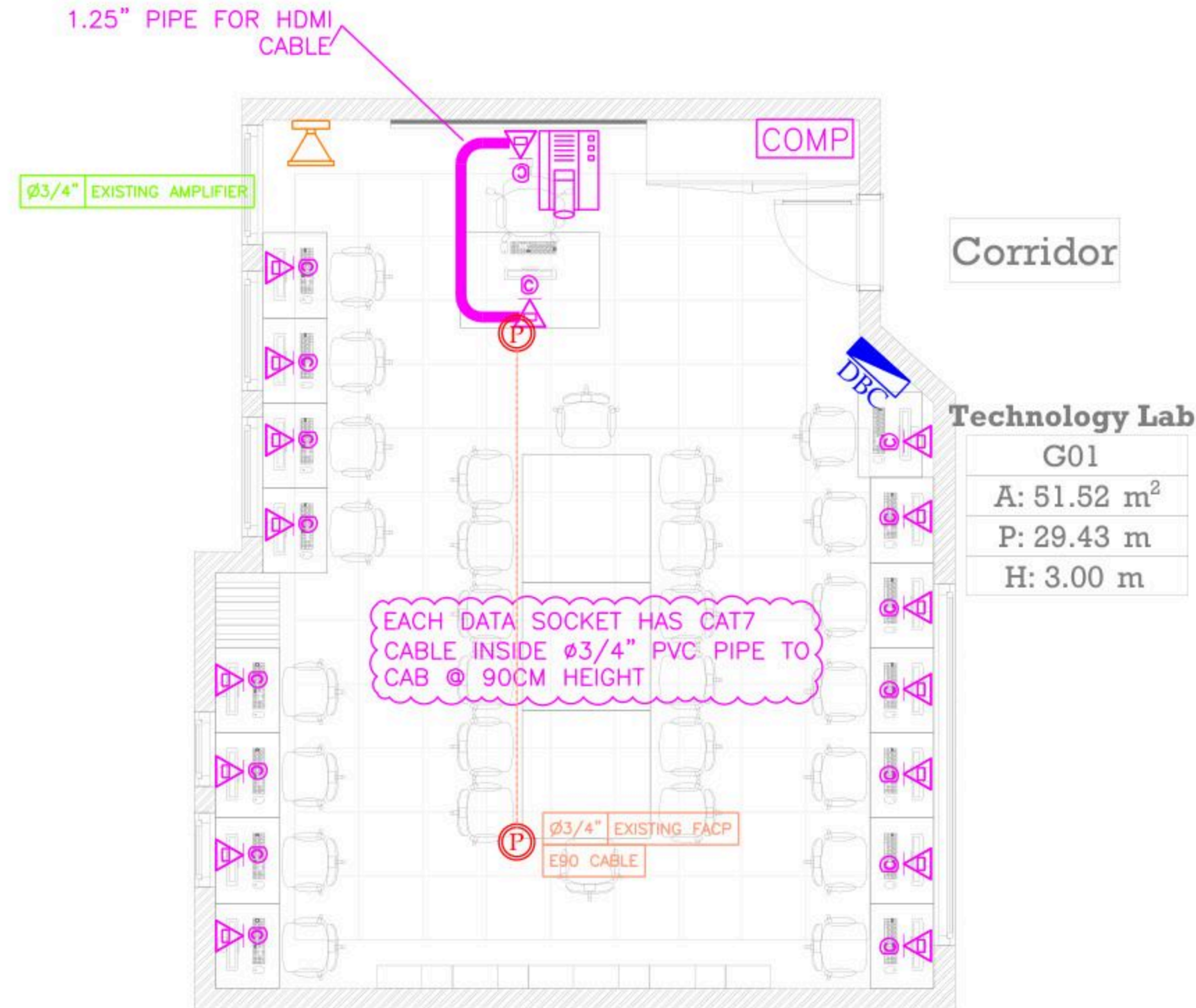
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E301	LOW CURRENT LAYOUT

Date: 5/12/2025
Scale: 1:100



Idna Girls Sec. School

December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
CREATION OF STEM LABS IN
SCHOOLS IN THE WEST BANK"
 Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L Rein. Concrete Level	W Windows Number
F.F.L Finish Floor Level	D1 Doors Number
S.L. Sea Level	

Consultant



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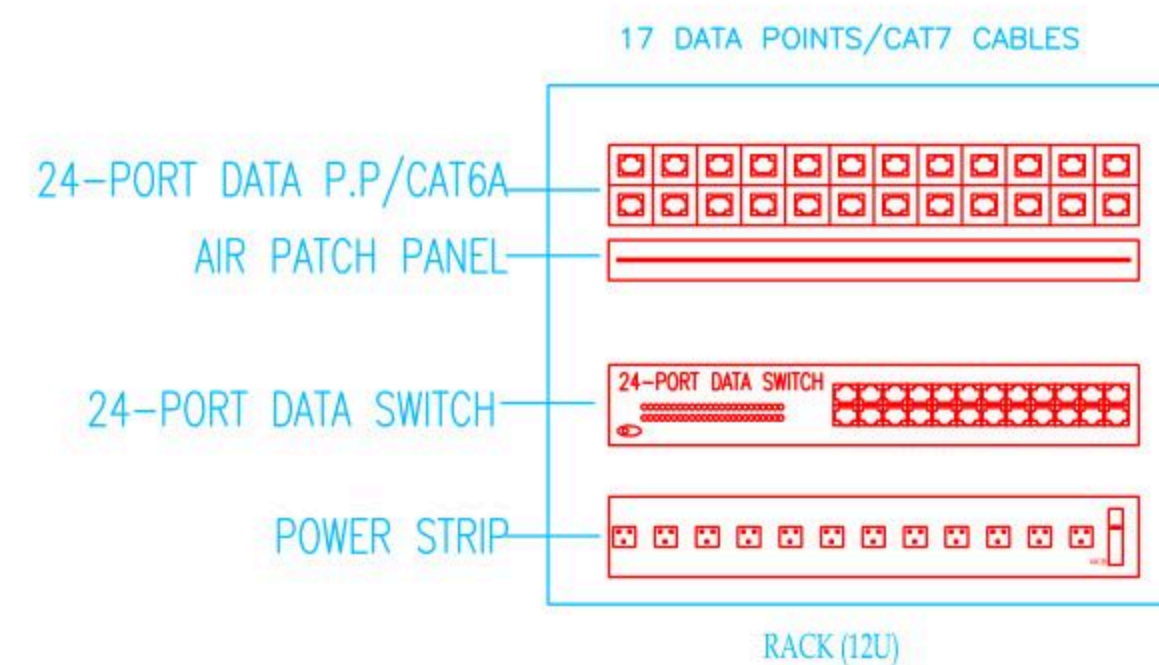
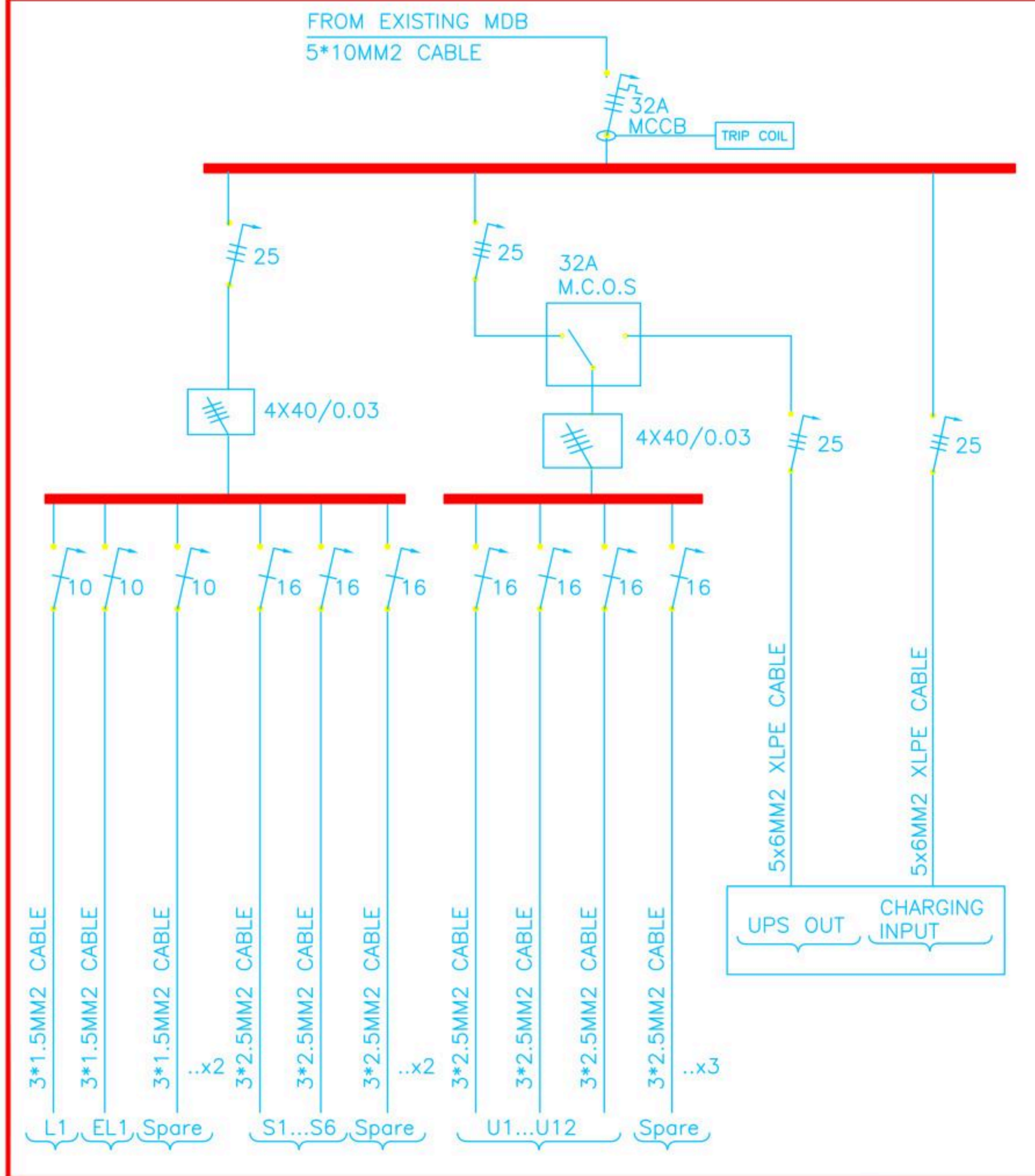
Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date: 5/12/2025
 Scale: 1:100

BOARD NAME: DBC





Belgium
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Rehabilitation and/or creation of STEM Labs in schools in the West Bank

Lot 1 Southern Governorates

Al Nahda School

Conslutant

Implemtened By



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REVISION [01]

Wednesday, December 5, 2025

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

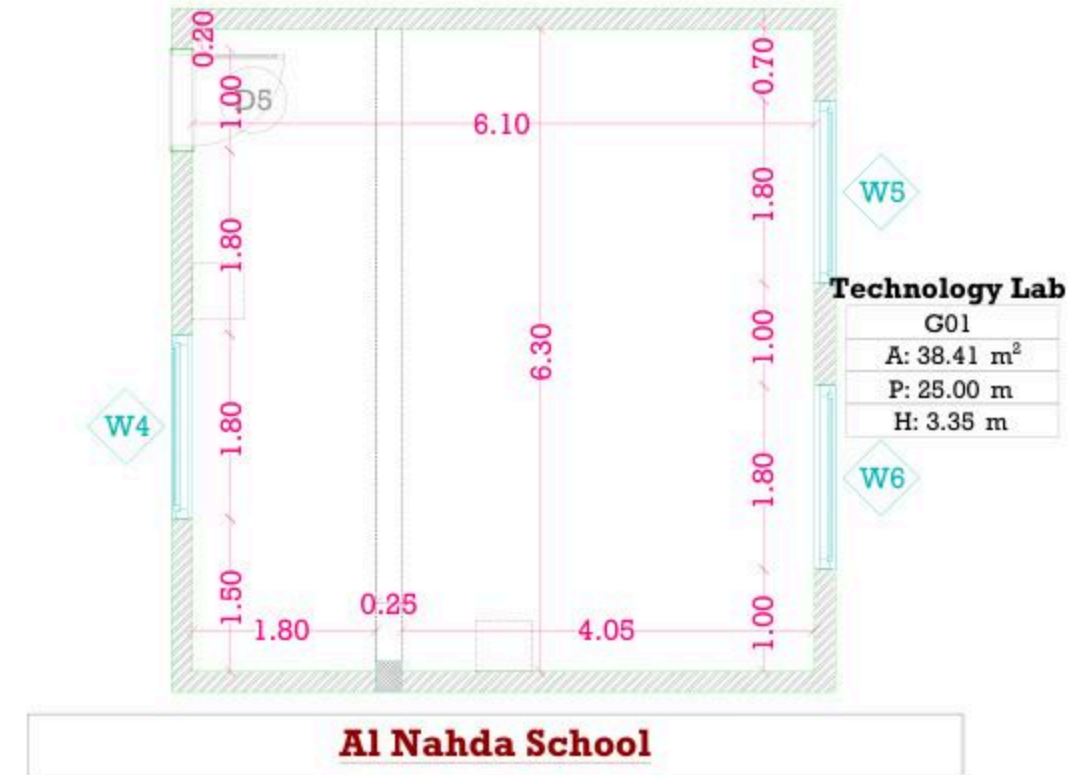


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Web-Site: www.arabengineers-Pal.com

Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A01	Al Nahda Existing Plan
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

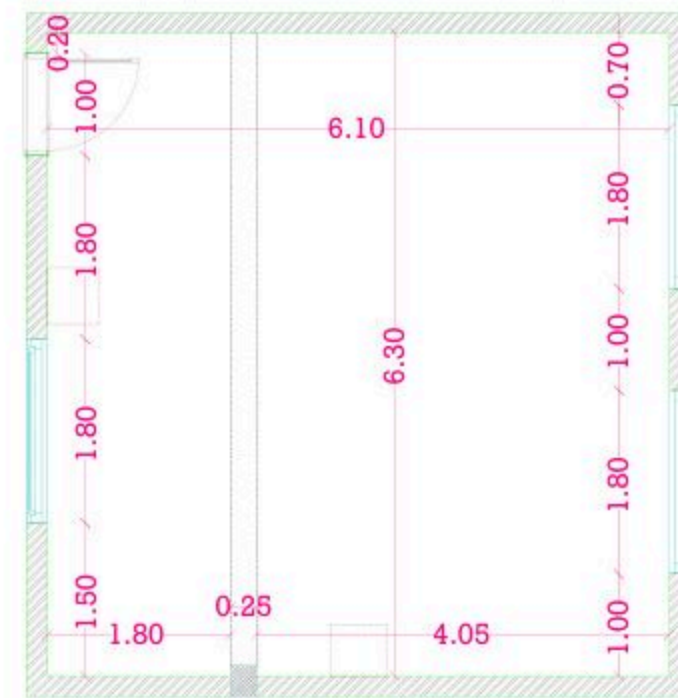


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Web-Site: www.arabengineers-Pal.com

Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A061	Dimension Plan
Date:	5/12/2025
Scale:	1:100



**Technology Lab
G01**
A: 38.41 m²
P: 25.00 m
H: 3.35 m

Al Nahda School

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK”
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L Rein. Concrete Level	Windows Number
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S.L. Sea Level	

Designer



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Project Team

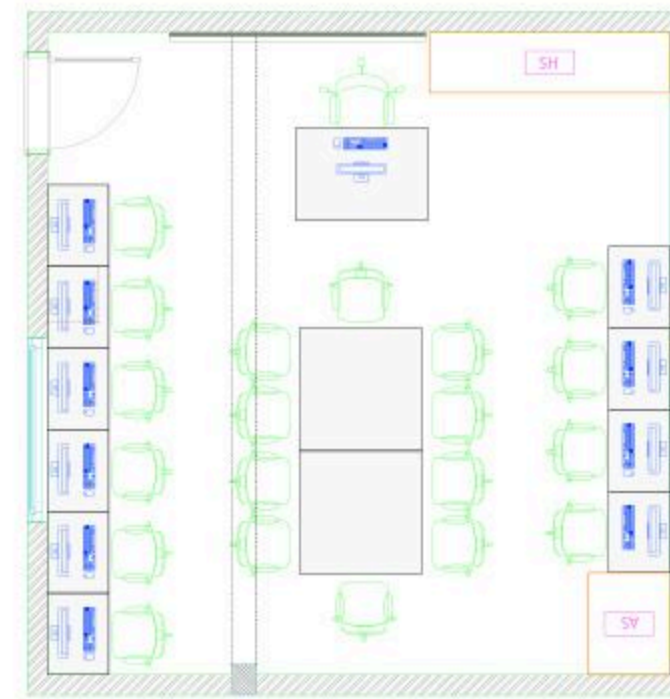
Team Leader Arch. Malek Z. Murad

Sheet No. Sheet Title

A04 Furniture Plan

Date: 5/12/2025

Scale: 1:100



Technology Lab

G01
A: 38.41 m ²
P: 25.00 m
H: 3.35 m

10 computers

10 STEM

Al Nahda School

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

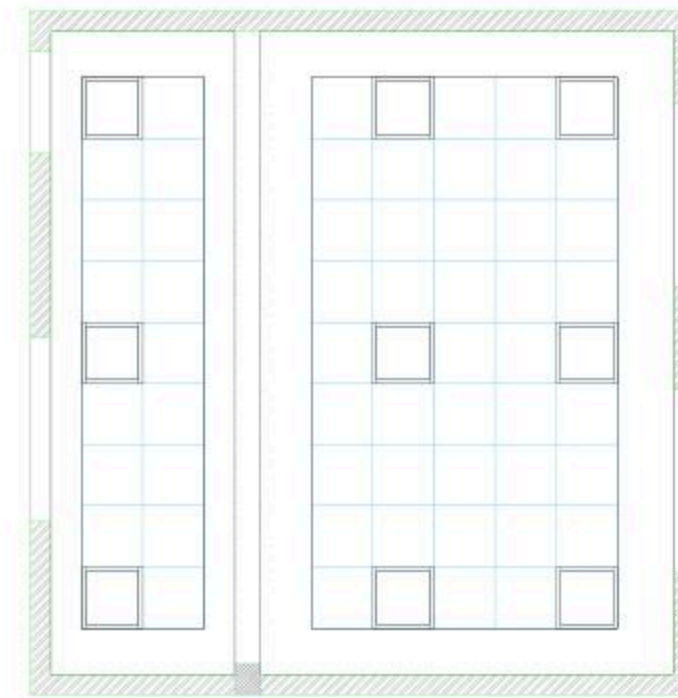


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
A05	Ceiling Plan
Date:	5/12/2025
Scale:	1:100



Al Nahda School

December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A	Section Number	
Shear Walls	D	Detail Number	
Concrete		Finish Floor Level	
Cement Block		R.C. Level	
Natural Stone		Level On Plan	
R.C.L. Rein. Concrete Level		W	Windows Number
F.F.L. Finish Floor Level		D	Doors Number
S.L. Sea Level			

Designer

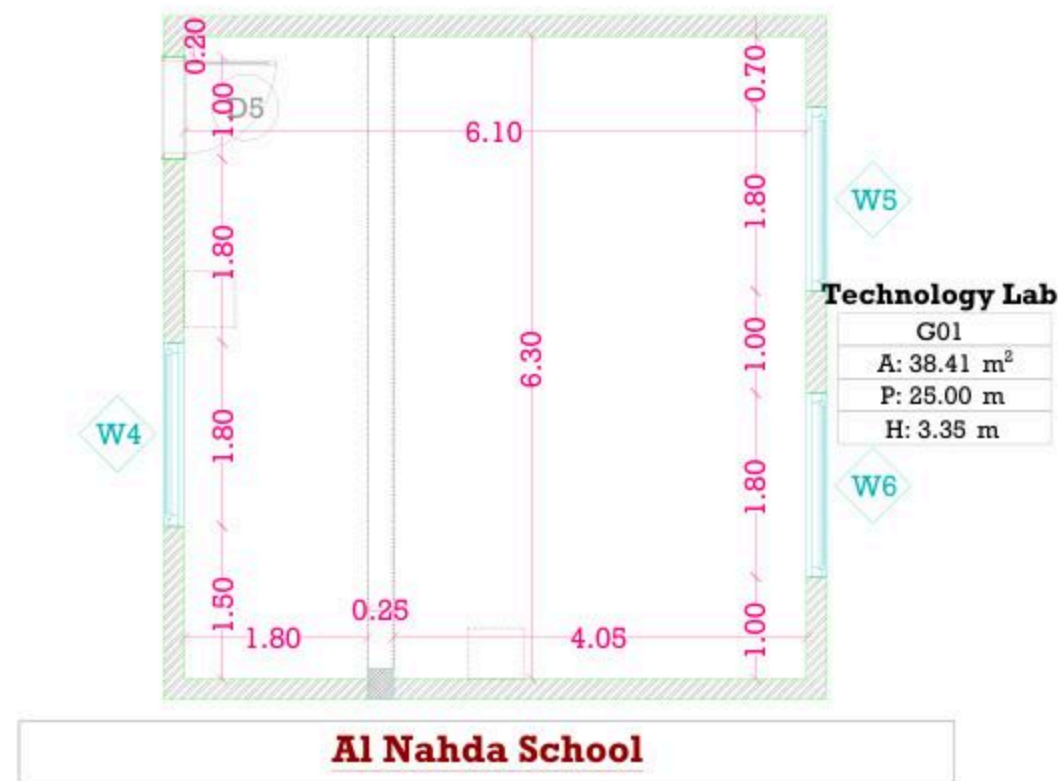


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M01	Al Nahda School Stem Lab Designing Plan
Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name

**Public works contract FOR THE
REHABILITATION AND/OR CREATION OF
STEM LABS IN SCHOOLS IN THE WEST
BANK"
Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

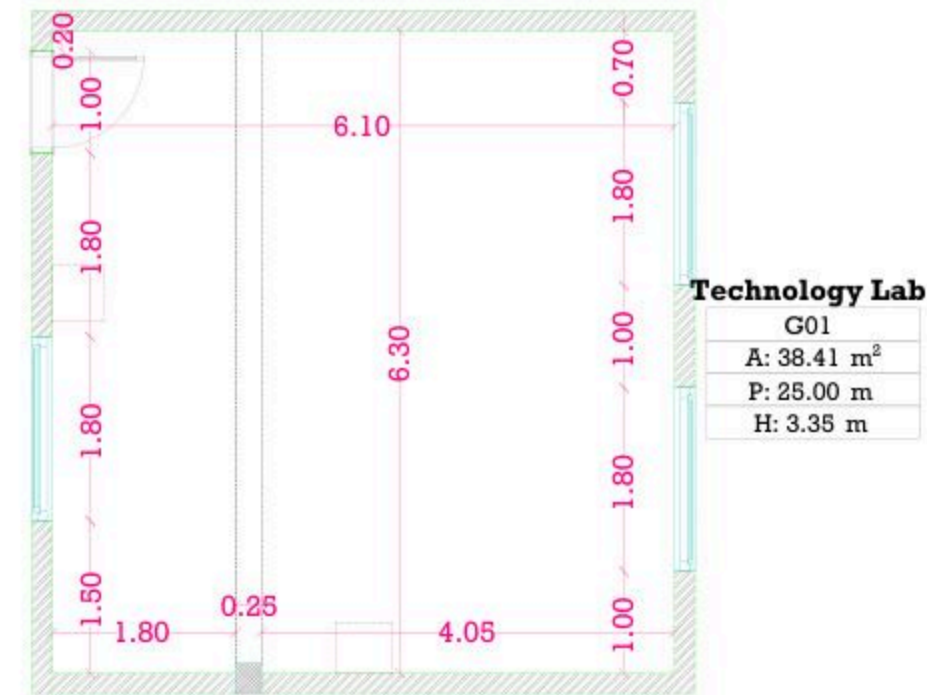


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M03	Dimension Plan
Date:	5/12/2025
Scale:	1:100



Technology Lab

G01
A: 38.41 m ²
P: 25.00 m
H: 3.35 m

Al Nahda School

December - 2025

Project Name

**Public works contract FOR THE
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Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer



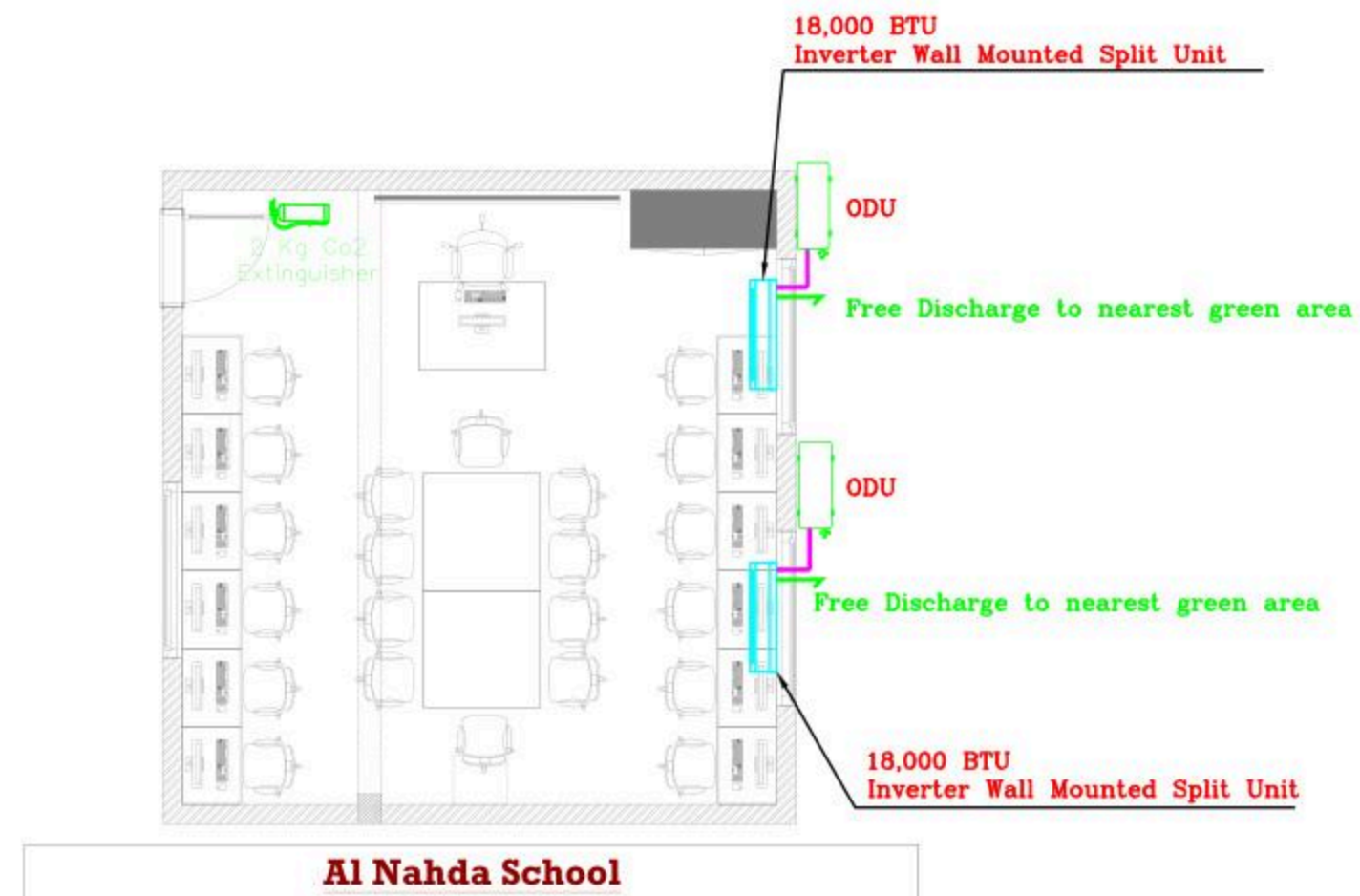
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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M04	Furniture Plan

Date: 5/12/2025
Scale: 1:100



December - 2025

Project Name

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Lot 1**



Contracting Authority

Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	Windows Number
F.F.L. Finish Floor Level	Doors Number
S.L. Sea Level	

Designer

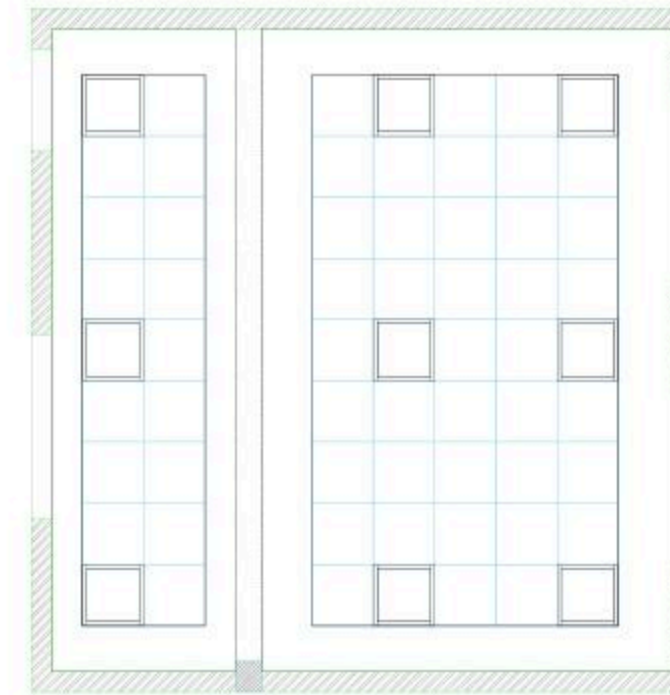


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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
M05	Ceiling Plan
Date:	5/12/2025
Scale:	1:100



Al Nahda School

December - 2025

Project Name
Public works contract FOR THE
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Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L Rein. Concrete Level	Windows Number
F.F.L Finish Floor Level	Doors Number
S.L Sea Level	

Consultant



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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E000	TITLES AND LEGEND

Date: 5/12/2025
 Scale: 1:100

NO.	DESCRIPTION
E000	TITLE&LEGEND
E101	LIGHTING LAYOUT
E201	POWER LAYOUT
E301	LOW CURRENT LAYOUT
E401	POWER DIAGRAMS

SYMBOL	DESCRIPTION
A1	34W LED, 4500 LM, UGR 19, CRI 80, 4000K RECESS MOUNTED 60X60 CM MODULE WITH ALUMINIUM FRAME, PMMA OPAL DIFFUSER GALVANISED STEEL BACK PLATE COMPLETE WITH SEPARATE CONTROL GEAR CONVERTER MADE BY THE SAME FACTORY, IP40, IK03, 50000HR LED
A2	RECESS/SURFACE MOUNTED 3W LED EMERGENCY LIGHT 3HRS SELF-CONTAINED BATTERY, 100% LUMEN FACTOR IP20 SELF-TEST

SYMBOL	DESCRIPTION
	3-PIN,(1-PHASE) 16A SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
	DITTO, BUT WEATHER PROOF
	SOCKET ABOVE FALSE CEILING
	3-PIN,(1-PHASE) 16A SOCKET OUTLET RED COLOR CONNECTED TO UPS
	DITTO, BUT DOUBLE SOCKET OUTLET
	DITTO, BUT ABOVE FALSE CEILING
	5-PIN(3-PHASE) 16A SOCKET OUTLET
	20A AC SOCKET OUTLET
	ELECTRICAL BELL
	ELECTRIC BOX.
	WALL EXTRACT FAN
	IN-LINE EXTRACT FAN
	2-POLE ISOLATING SWITCH
	4-POLE ISOLATING SWITCH
	AC UNIT,OUTDOOR,INDOOR.
	CIRCUIT BREAKER,MCB,MCCB
	EARTH LEAKAGE RELAY (RCD)
	AUTOMATIC TRANSFER SWITCH (ATS)
	HAND DRYER OUTLET
	HOT WATER CYLINDER
	WATER PUMP
	THERMOSTAT OUTLET
	FAN COIL UNIT
	CENTRIFUGAL EXTRACT FAN
	ONE-WAY SWITCH SINGLE POLE/ONE GANG,TWO GANG, THREE GANG,DOUBLE POLE SWITCH.
	TWO-WAY SINGLE POLE SWITCH/INTERMEDIATE, CROSS SWITCH
	SWITCH PANNEL
	PUSH BUTTON
	SHUTTER,DOOR MOTOR
	SHUTTER SWITCH UP/DN
	TELEPHONE SOCKET OUTLET
	RJ45 DATA SOCKET OUTLET
	WIRELESS ACCESS POINT-WI-FI
	SATELLITE SOCKET OUTLET
	INDOOR INTERCOM UNIT
	OUTDOOR INTERCOM UNIT
	ADSL ROUTER
	DOME CAMERA
	BOX CAMERA
	360°DOME CAMERA
	LOW VOLTAGE BOARD
	DATA RACK CABINET
	DISTRIBUTION BOARDS/MAIN,SUB

SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HEAT DETECTOR
	GAS DETECTOR
	MANUAL PULL STSTION/BREAK GLASS UNIT
	INDICATION LAMP
	INDOOR SIREN AUDIO ONLY
	OUTDOOR SIREN AUDIOVISUAL.
	CONTROL MODULE
	REPEATER PANEL
	FIRE ALARM CONTROL PANEL
	MOTION DETECTOR
	360° MOTION DETECTOR
	VIBRATION DETECTOR
	MAGNETIC CONTACTS
	HAND PANIC BUTTON
	FOOT PANIC BUTTON
	KEYBAD
	INTRUSION INDOOR SIREN AUDIO ONLY
	INTRUSION OUTDOOR SIREN AUDIOVISUAL.
	BURGLAR ALARM CONTROL PANEL
	PROXIMITY HID CARD READER
	DOOR LOCK
	REQUEST TO EXIT PUSH BUTTON
	SUPERVISORY MAGNETIC CONTACTS
	JUNCTION BOX
	ACCESS CONTROL PANEL
	TICKET DISPENSER UNIT (TDU)
	COUNTER DISPLAY UNIT (CDU)
	TELLER STATION UNIT (TSU)
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	HORN SPEAKER
	VOLUME CONTROL
	MIC SOCKET OUTLET
	MIC STATION
	PAVA RACK
	MULTI OUTLET WALL MOUNTED BOX,12/18 MODULE
	FLOOR MOUNTED MULTI OUTLET BOX,16 MODULE

GENERAL NOTES
1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.
2- Outlet boxes for switches are to be fixed 130cm above FFL and 12 cm horizontally from the outside edge of the nearest door, except where otherwise indicated.
3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.
4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.
5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).
6-The height of the top edge of the power Distribution Board above FFL to be 180 cm.
7-All panel boards shall be with doors, and shall be wether water proof in wet areas.
8-The main C.Bs shall be air insulated, adjustable, with magnetic and thermal protection, and have a min. rupturing capacity of 25 k.A.
9-The Miniature CBs shall be of the air insulated type with magnetic and thermal protection and fixed adjustment, the main rupturing capacity of these M.C.Bs shall not be less than 6 K.A.
11- The foundation of the building should be used in the main earth system, but the electrodes are added to the main earth system if the resistance test does not fulfill requirements, typically one Ohm.
13- Galvanized steel strips must be welded to beams every 1.5m in closed loop, and when reaching columns, columns should be sorounded by steel strips and welded well to earthing loop Galvanized steel strips should not be less than 30*3mm Earth resistance measuring shall be carried before backfilling.

December - 2025

Project Name
Public works contract FOR THE
REHABILITATION AND/OR
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SCHOOLS IN THE WEST BANK"
Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

	Column Rein. Concrete		Section Number
	Shear Walls		Detail Number
	Concrete		Finish Floor Level
	Cement Block		R.C. Level
	Natural Stone		Level On Plan
	R.C.L. Rein. Concrete Level		Windows Number
	F.F.L. Finish Floor Level		Doors Number
	S.L. Sea Level		

Consultant



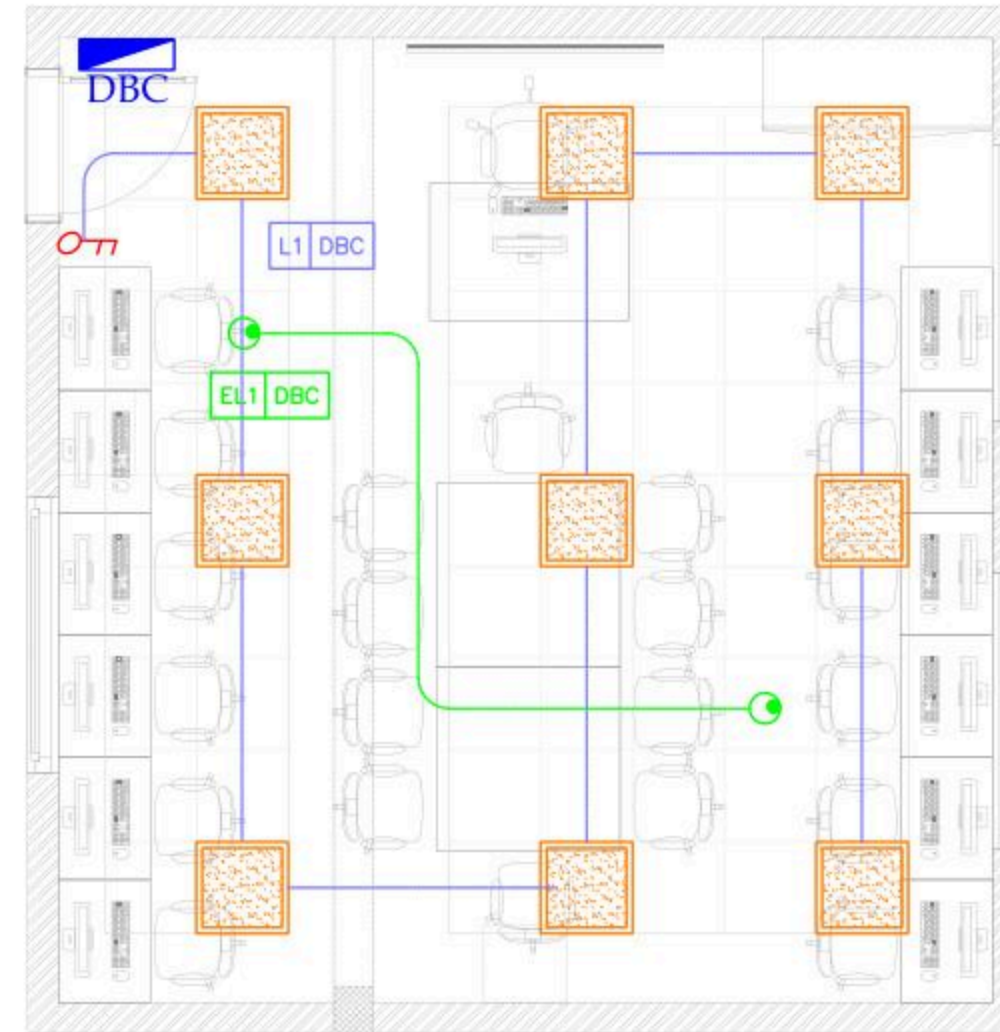
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Project Team

Team Leader	Arch. Malek Z. Murad
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Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date:	5/12/2025
Scale:	1:100



Technology Lab

G01
A: 38.41 m ²
P: 25.00 m
H: 3.35 m

Al Nahda School

December - 2025

Project Name
Public works contract FOR THE REHABILITATION AND/OR CREATION OF STEM LABS IN SCHOOLS IN THE WEST BANK” Lot 1



Belgian agency for international cooperation



Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W1 Windows Number
F.F.L. Finish Floor Level	D2 Doors Number
S.L. Sea Level	

Consultant



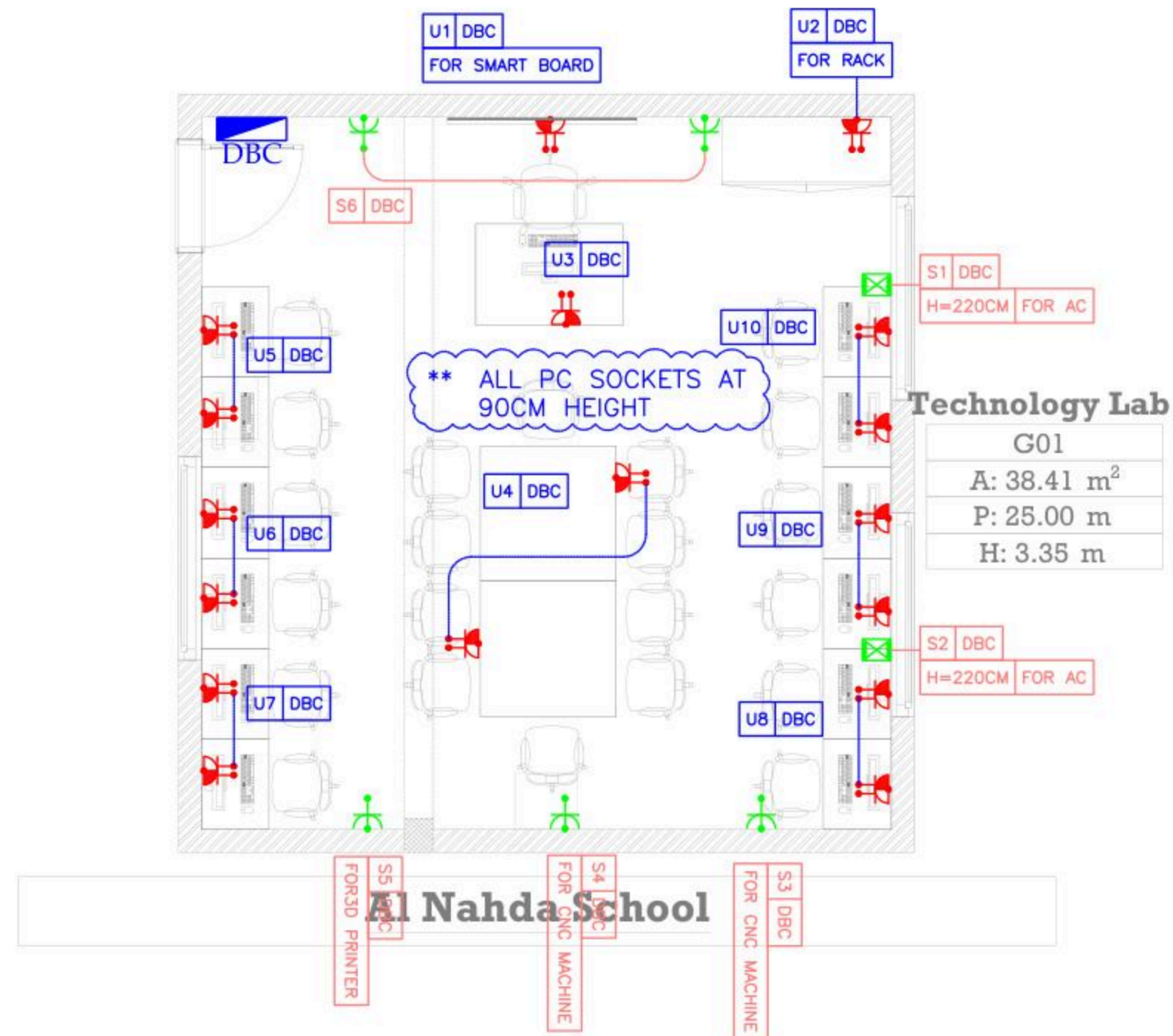
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Project Team

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Sheet No.	Sheet Title
E201	POWER LAYOUT

Date:	5/12/2025
Scale:	1:100



December - 2025

Project Name

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Symbol, Hatches & Legend

Column Rein. Concrete	A Section Number
Shear Walls	D1 Detail Number
Concrete	Finish Floor Level
Cement Block	R.C. Level
Natural Stone	Level On Plan
R.C.L. Rein. Concrete Level	W1 Windows Number
F.F.L. Finish Floor Level	D1 Doors Number
S.L. Sea Level	

Consultant



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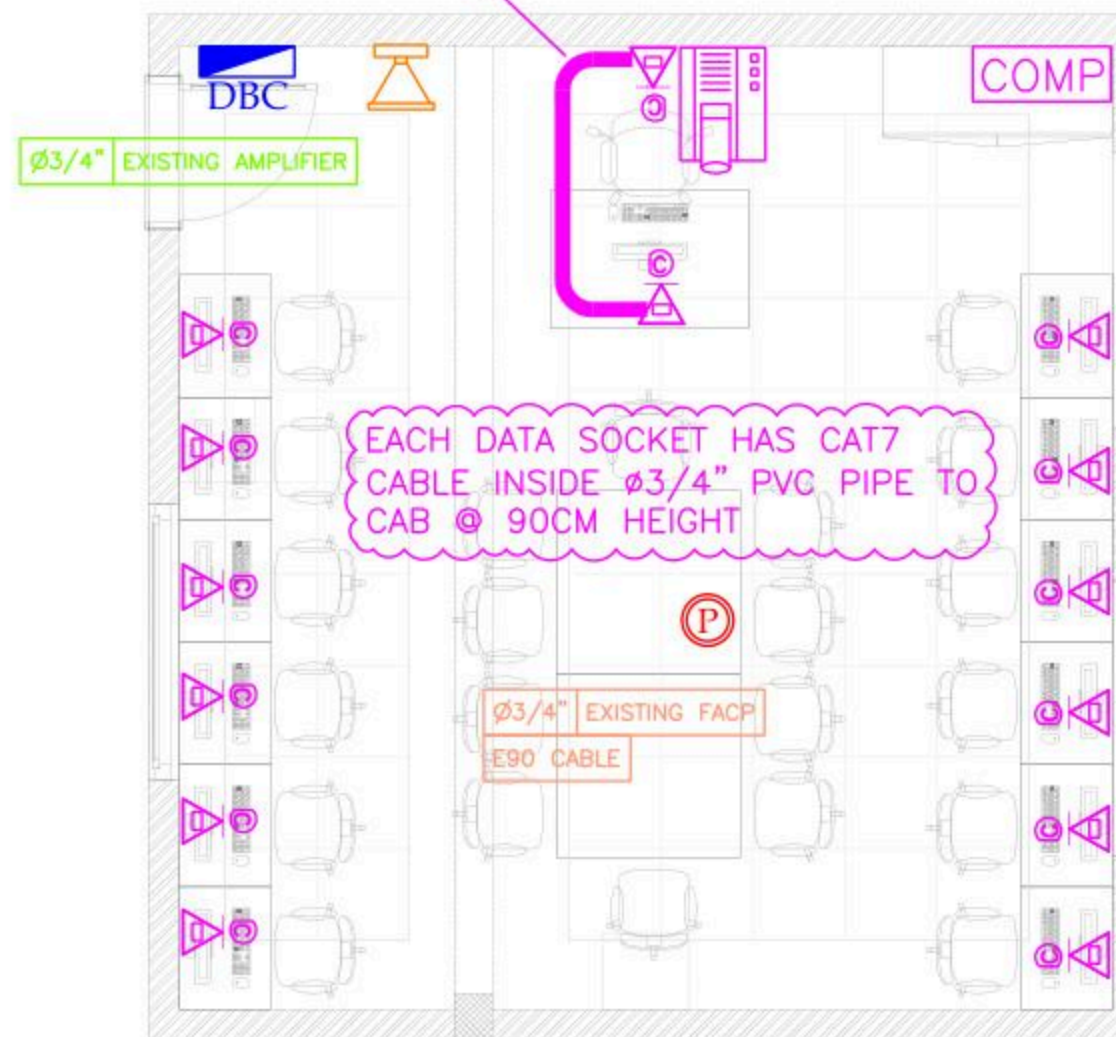
Project Team

Team Leader	Arch. Malek Z. Murad
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Sheet No.	Sheet Title
E301	LOW CURRENT LAYOUT

Date:	5/12/2025
Scale:	1:100

1.25" PIPE FOR HDMI
CABLE



Technology Lab

G01
A: 38.41 m ²
P: 25.00 m
H: 3.35 m

Al Nahda School

December - 2025

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 Lot 1



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Symbol, Hatches & Legend

Column Rein. Concrete	Section Number
Shear Walls	Detail Number
Concrete	Finish Floor Level
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Consultant



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Project Team

Team Leader Arch. Malek Z. Murad

Sheet No.	Sheet Title
E101	LIGHTING LAYOUT

Date: 5/12/2025
 Scale: 1:100

BOARD NAME: **DBC**

