



Belgium
partner in development

**PUBLIC WORKS CONTRACT FOR THE REHABILITATION AND/OR CREATION OF EIGHT STEM
LABS IN MIDDLE AND NORTHERN GOVERNORATES IN WEST BANK**

PSE22001-10201

Drawings

Enabel 

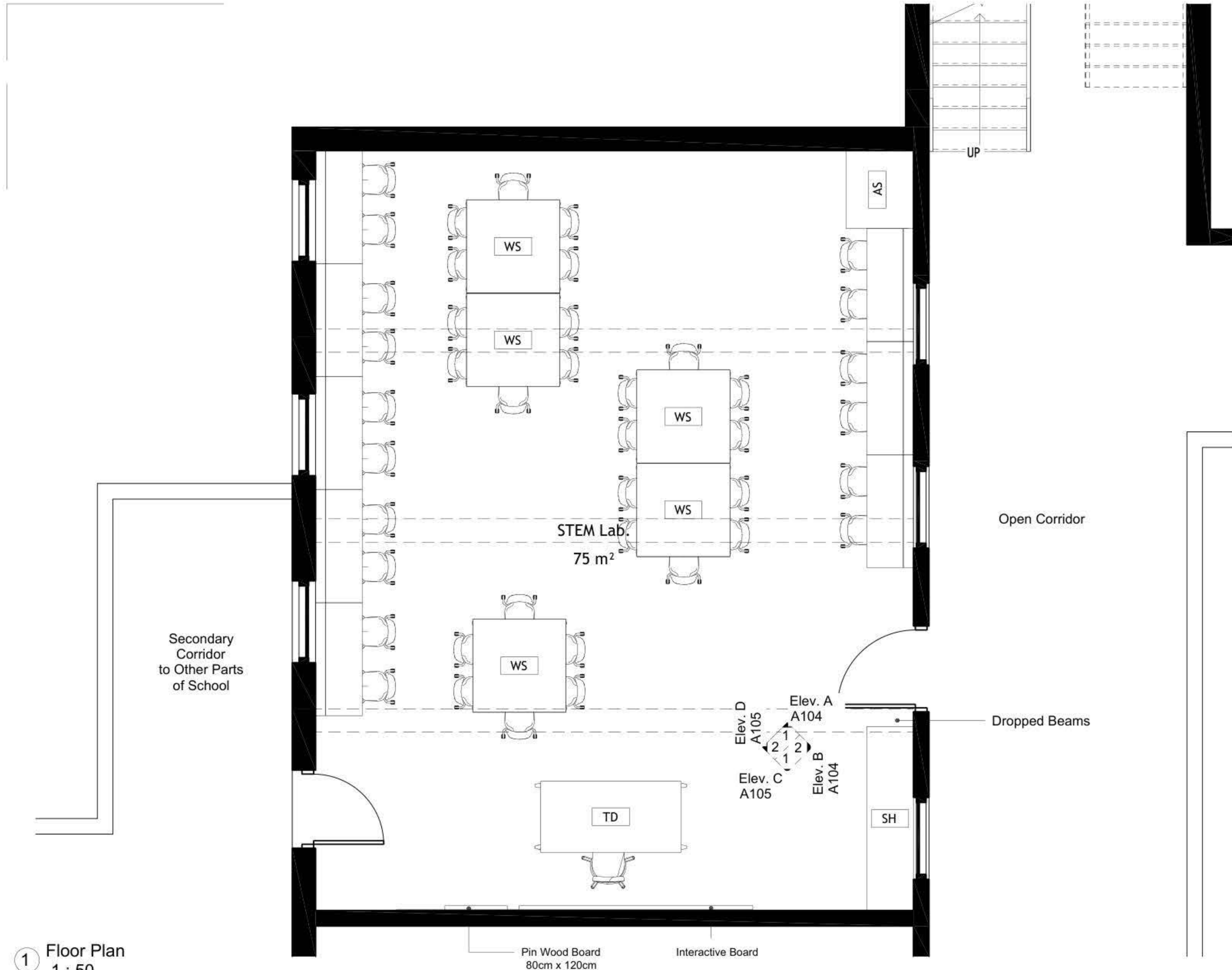
REVISION [01]

Tuesday , September 1, 2026

Design and supervision consultancy for rehabilitation and/or creation of
STEM Labs in schools in the West Bank

Adawiya Secondary Girls School





1 Floor Plan
1 : 50

DRAWING NOTES:

Co-tracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
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Tel 022982405
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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

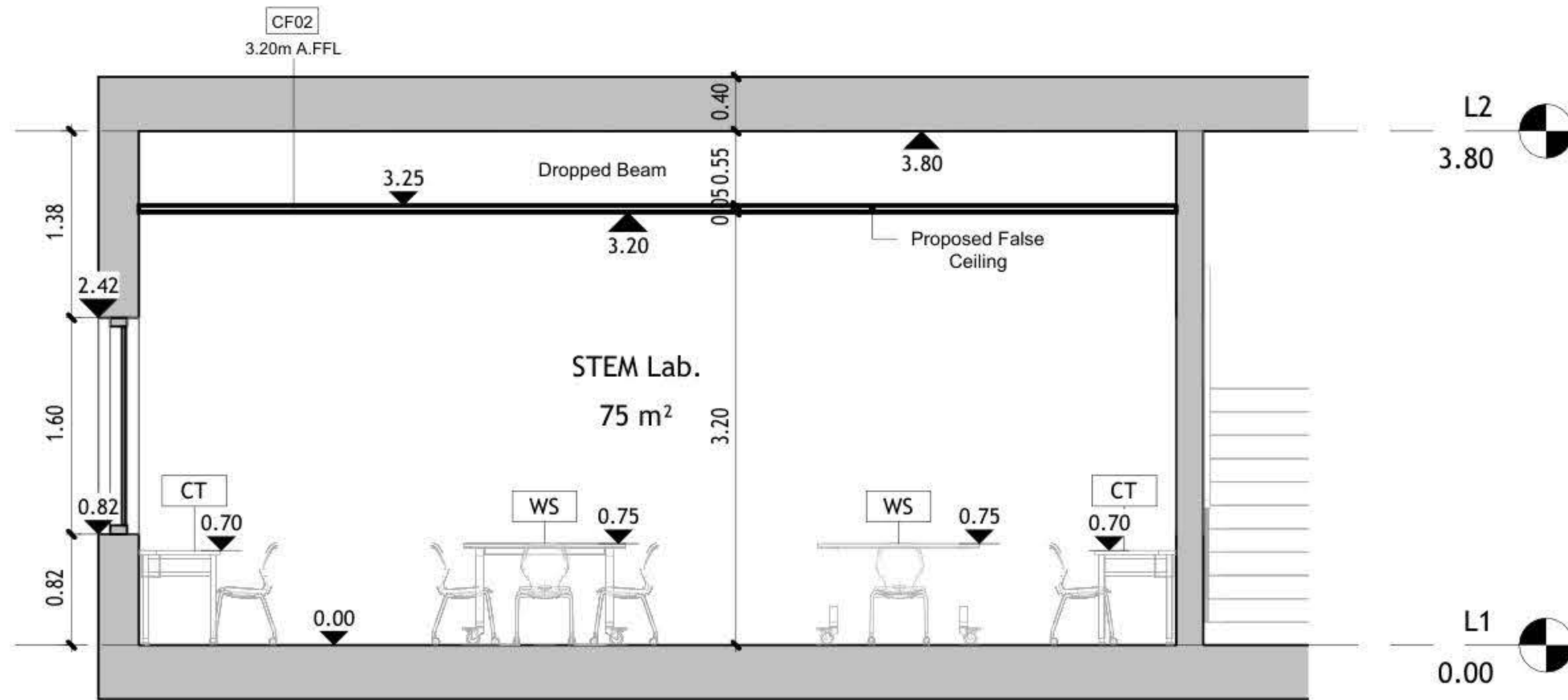
Eight STEM Labs in Middle and
Northern Governorates
PSE22001-10201

Adawiya Secondary Girls School

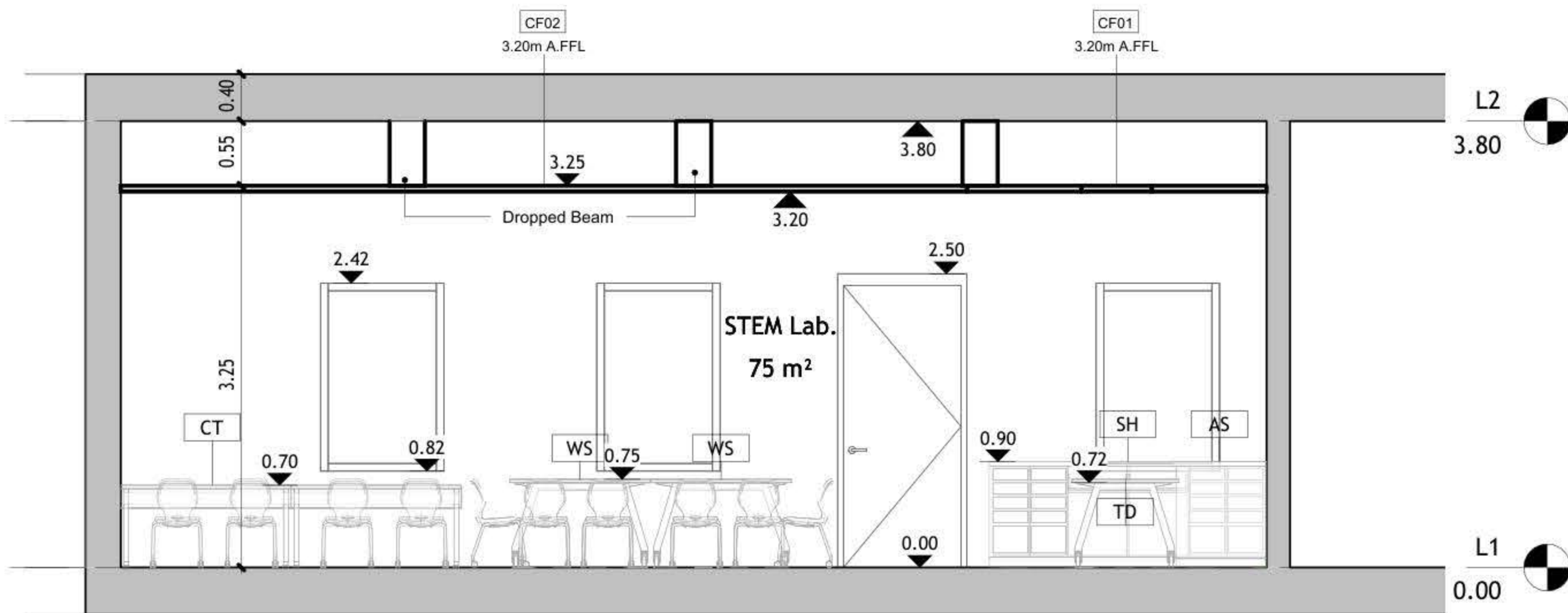
DRAWING TITLE:

Furniture Plan

JOB #	DWG # A102	BLOCK # 00
SCALE: 1 : 50	Sht. of	REV. #



① Elev. A
1 : 50



② Elev. B
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

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DWG ISSUE DATE: 9/15/2025

PROJECT:

**Eight STEM Labs in Middle and
Northern Governorates**

Adawiya Secondary Girls School

DRAWING TITLE:

Internal Elevations

JOB #	DWG #	BLOCK #
SCALE: 1 : 50	Sht. of	REV. #
	A104	00

DRAWING NOTES:

Contracting Authority:

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DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

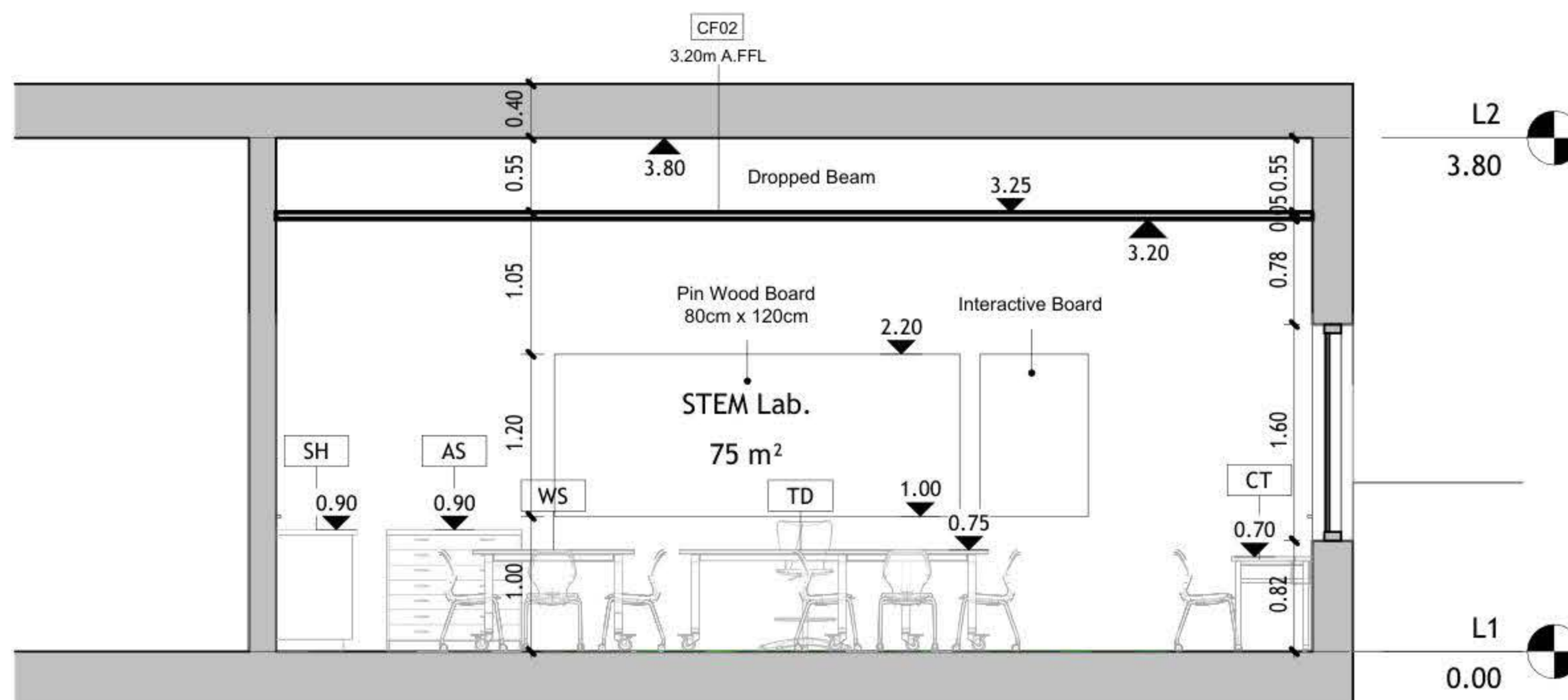
Adawiya Secondary Girls School

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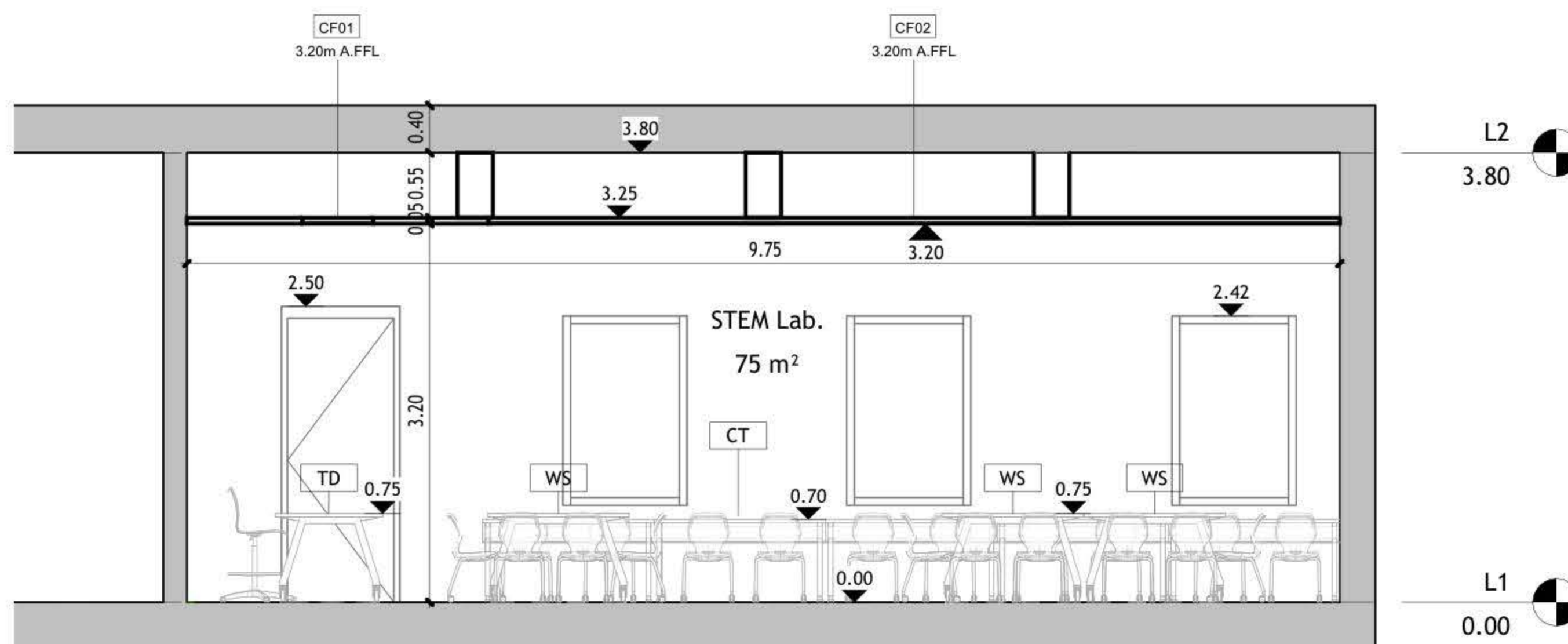
Internal Elevations

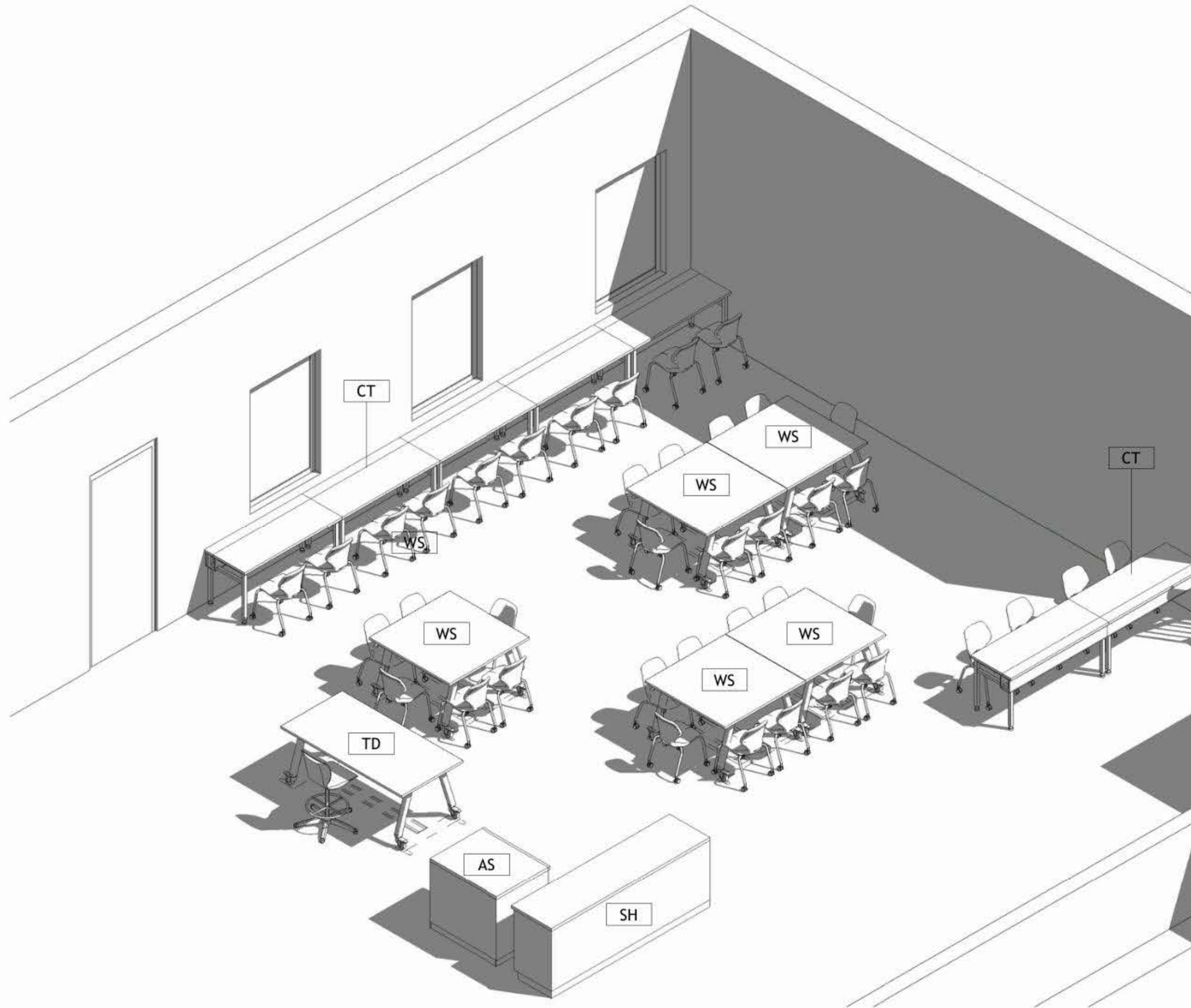
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	A105	00
SCALE:	Sht. of	REV. #
1 : 50		

1 Elev. C
1 : 50



2 Elev. D
1 : 50





1 Isometric

DRAWING NOTES:

Contracting Authority:

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PROJECT:

**Eight STEM Labs in Middle and
Northern Governorates**

Adawiya Secondary Girls School

DRAWING TITLE:

Isometric

JOB #	DWG #	BLOCK #
	A106	00
SCALE:	Sht. of	REV. #

CF01	Gypsum Board	18 m²
CF02	60 * 60 Mineral Fiber Tiles	57 m²

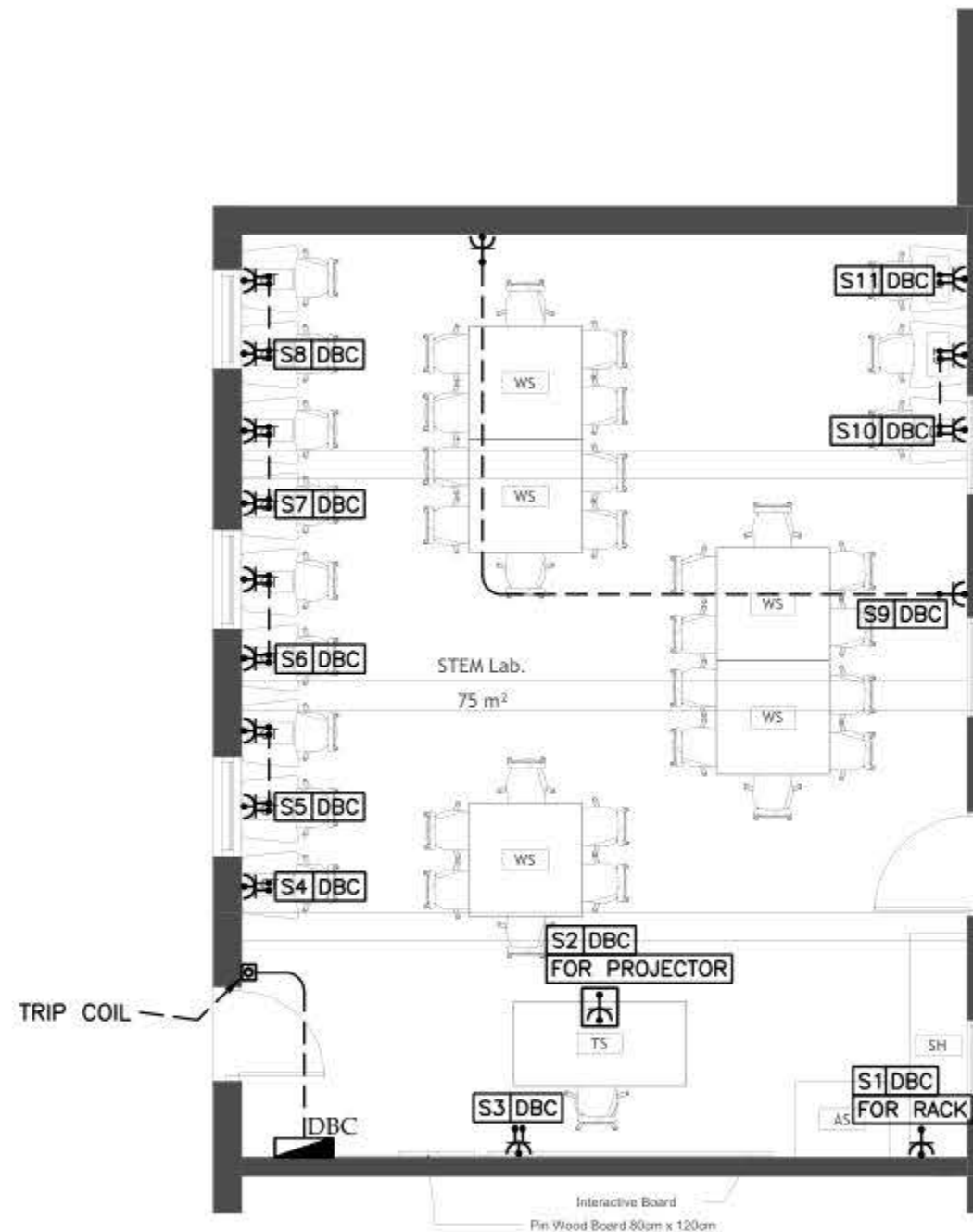
75 m²

JOB #	DWG # A103	BLOCK # 00
SCALE: 1 : 50	Sht. of	REV. #



EMERGENCY LIGHTING LAYOUT

Date:	06/11/2005	E 201
Time:	17:100	
City:	RAMALLAH	
Ref:	34008	



Interactive Board
Pin Wood Board 80cm x 120cm

ADAWIYA LAB

NOTES

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering

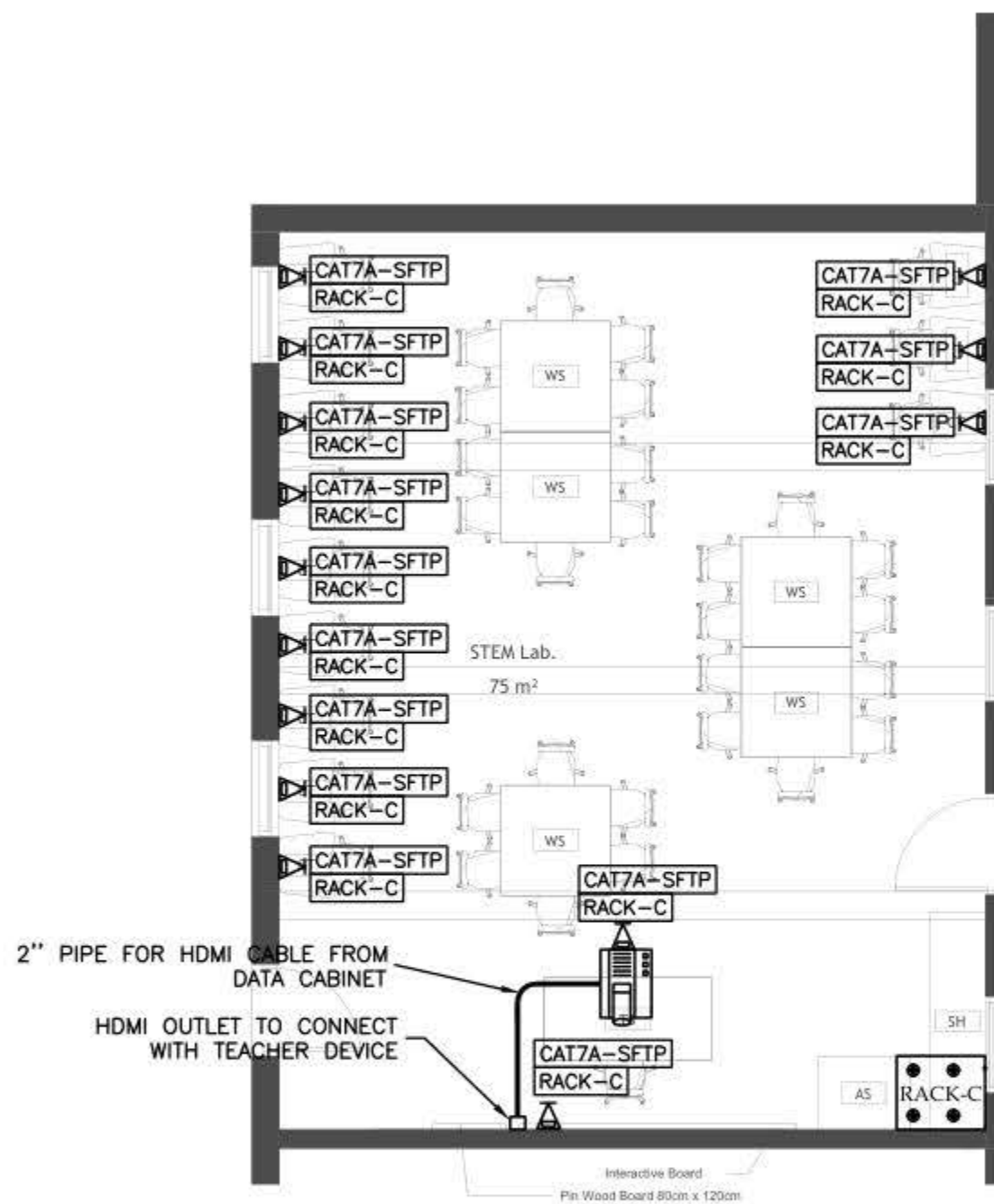
Designed by: F.E. B. 004 001 001
Drawn by: 001
Checked by: F.E. B. 004 001 001
Approved by: F.E. B. 004 001 001

ADAWIYA DESIGN

POWER LAYOUT

Date: 001/001/001
Scale: 1/100
City: RAMALLAH
Sheet: 001/001

E 301



ADAMIYA LAB



Electrical Engineering

Designed by: P. C. D. 1001-1001-1001

Drawn by: EE Date: 4/11/2011

Approved by: J. F. Herndon, Sr.

ADAWTYA DESIGN

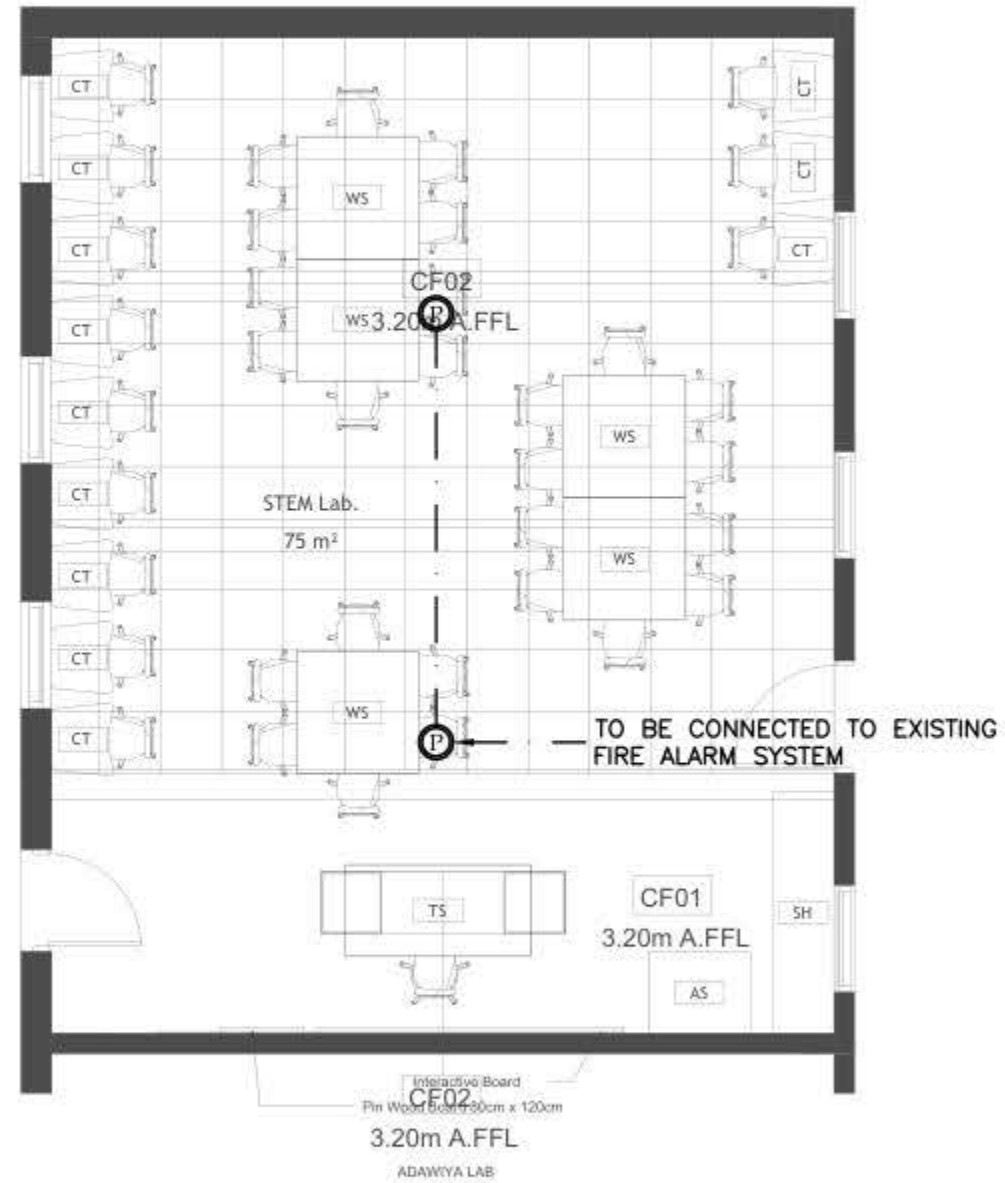
LOW VOLTAGE LAYOUT

Date: _____

Page	Page
1	1

E 501

NOTES



NO	DATE	DESCRIPTION
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4		
5		
6		



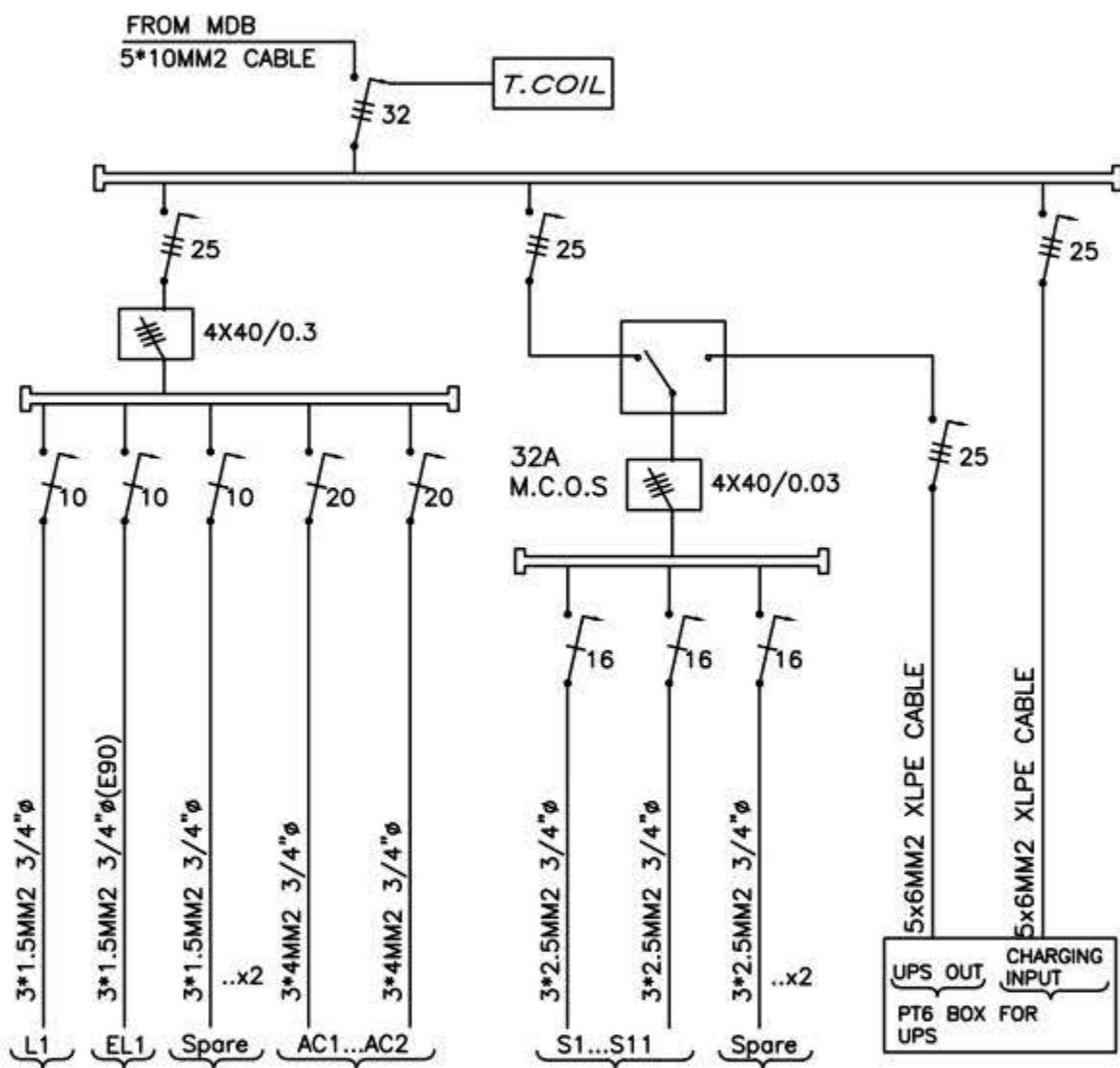
Electrical Engineering
 Designed by: F. L. B. 001-001-001-001
 Drawn by: F. L. B. 001-001-001-001
 Checked by: F. L. B. 001-001-001-001
 Approved by: F. L. B. 001-001-001-001
 ADAMIYA DESIGN

FIRE ALARM LAYOUT

Date:	001-001-001-001
Scale:	1/100
City:	RAMALLAH
Sheet:	24-001

E 601

BOARD NAME: DBC



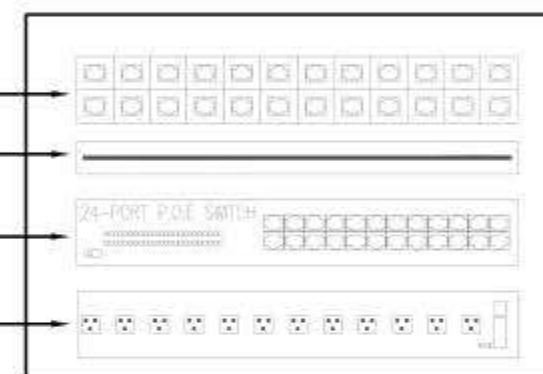
14 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering

Designed by: F. El-Badry

Drawn by: F. El-Badry

Checked by: F. El-Badry

Approved by: F. El-Badry

ADAWIYA DESIGN

POWER DIAGRAMS

Date: 01/10/2025

Scale: 1/100

City: RAMALLAH

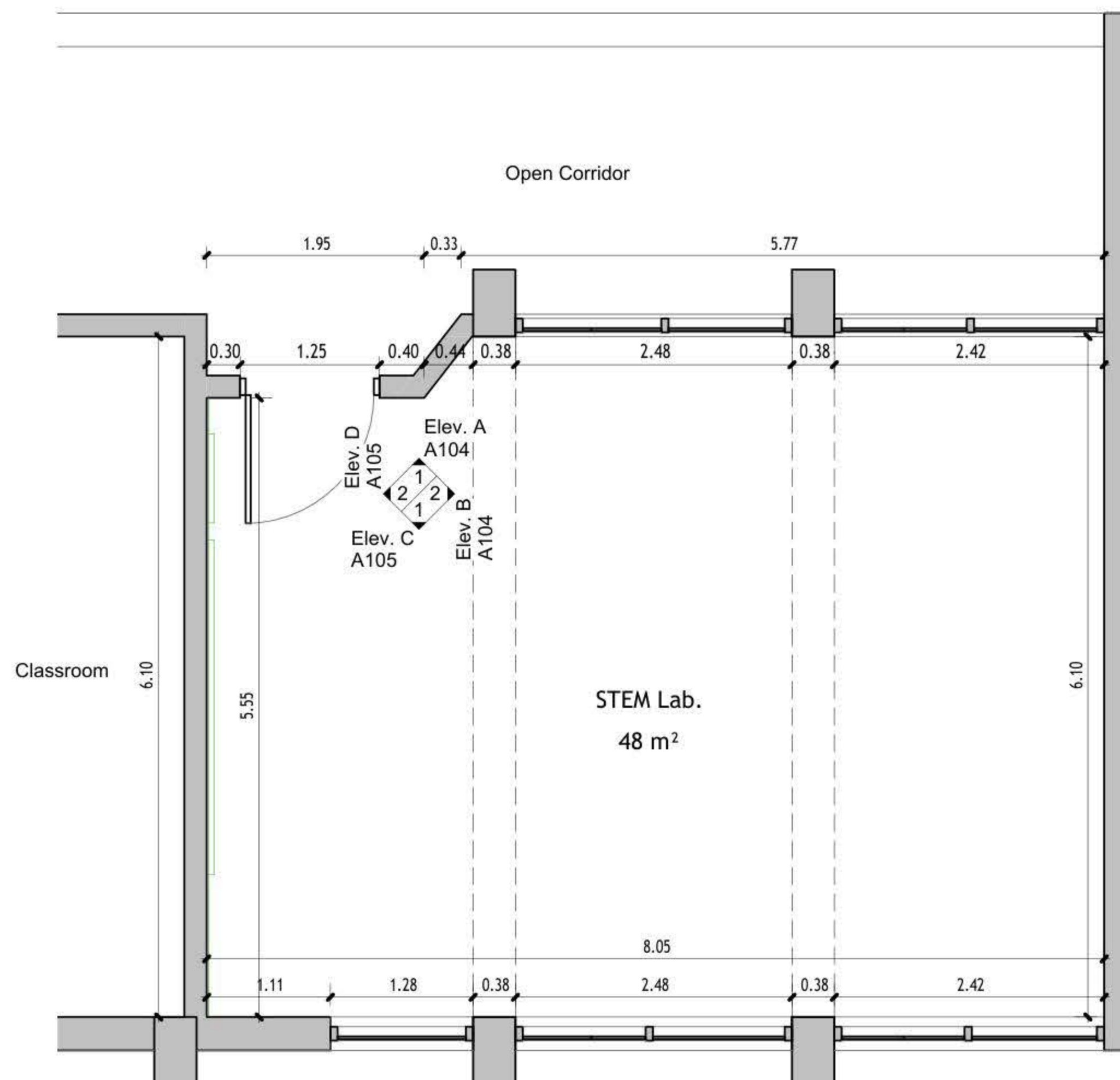
Sheet: 01/02

E 701

Design and supervision consultancy for rehabilitation and/or creation of
STEM Labs in schools in the West Bank

Faroun Secondary Girls School

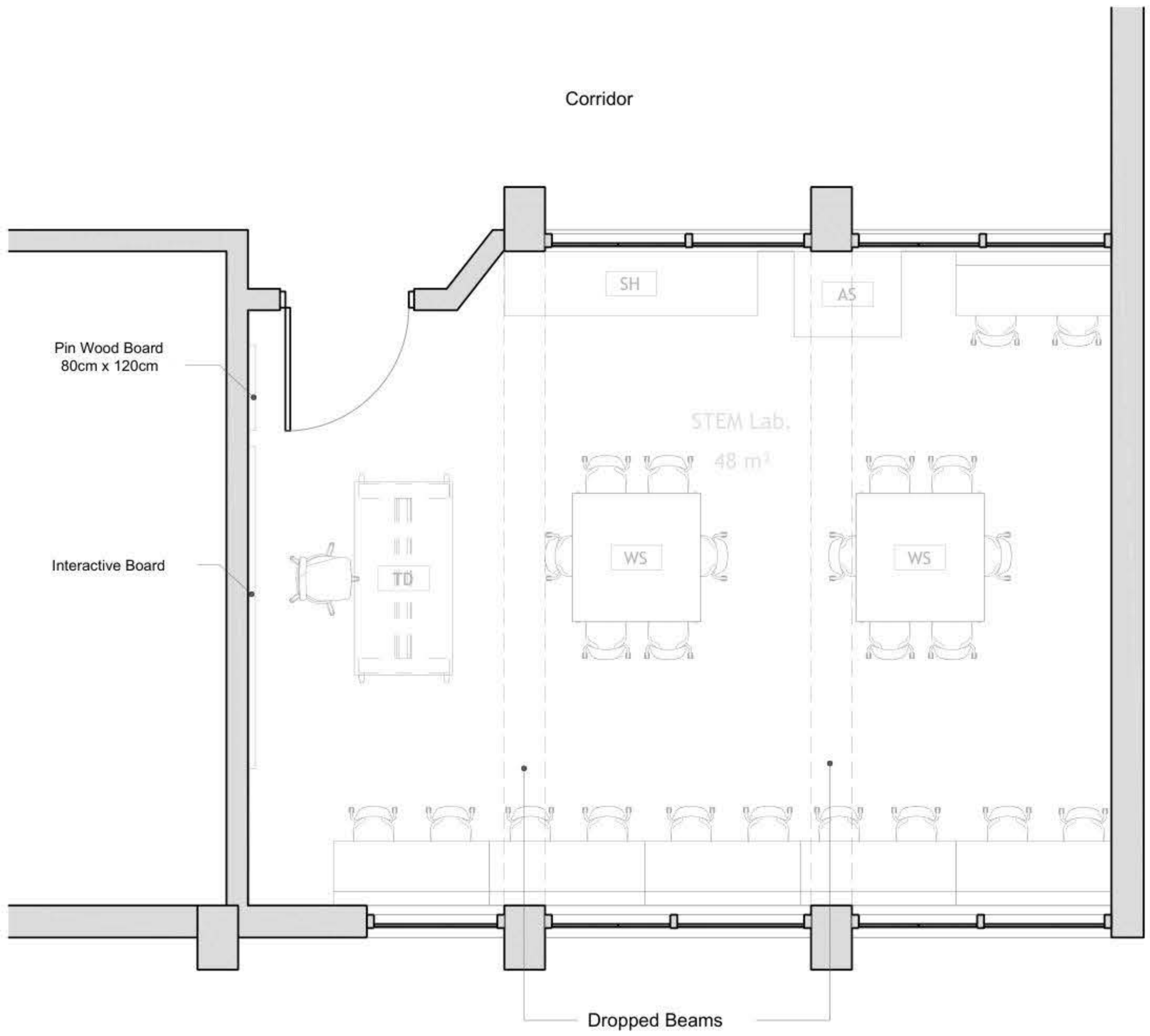




DRAWING NOTES:

① Floor Plan
1 : 50

Furniture Schedule		
ID	Description	Count
	Student Chair	24
AS	Arts Storage (A1)	1
CT	Computer Table	6
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	2



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

CONSULTANT:

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DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

STEM Labs Design- As-Built

Faroun Secondary Girls School

DRAWING TITLE:

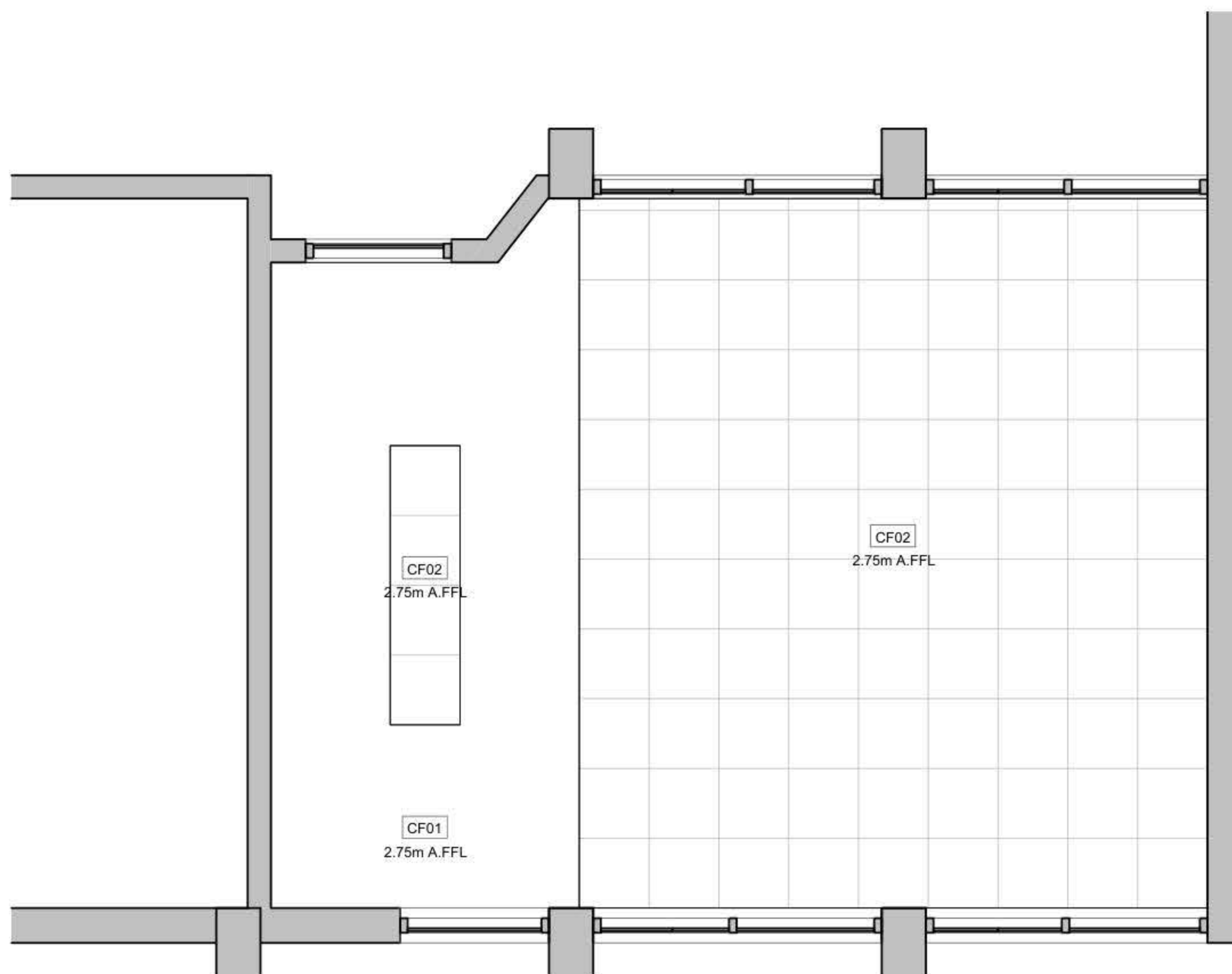
Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	Shc. of	REV #
1 : 50		

Ceiling Schedule		
Type Mark	Description	Area

CF01	Gypsum Board	14 m ²
CF02	60 * 60 Mineral Fiber Tiles	34 m ²

Grand total: 3 48 m²



1 Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

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APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

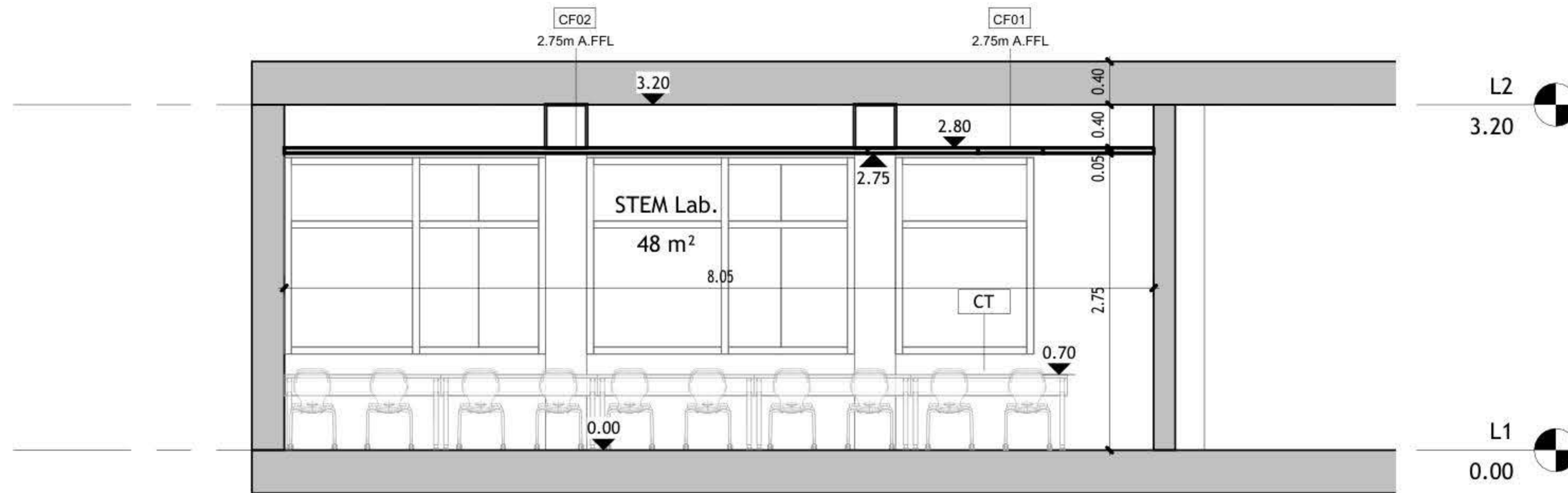
Eight STEM Labs in Middle and
Northern Governorates

Faroun Secondary Girls School

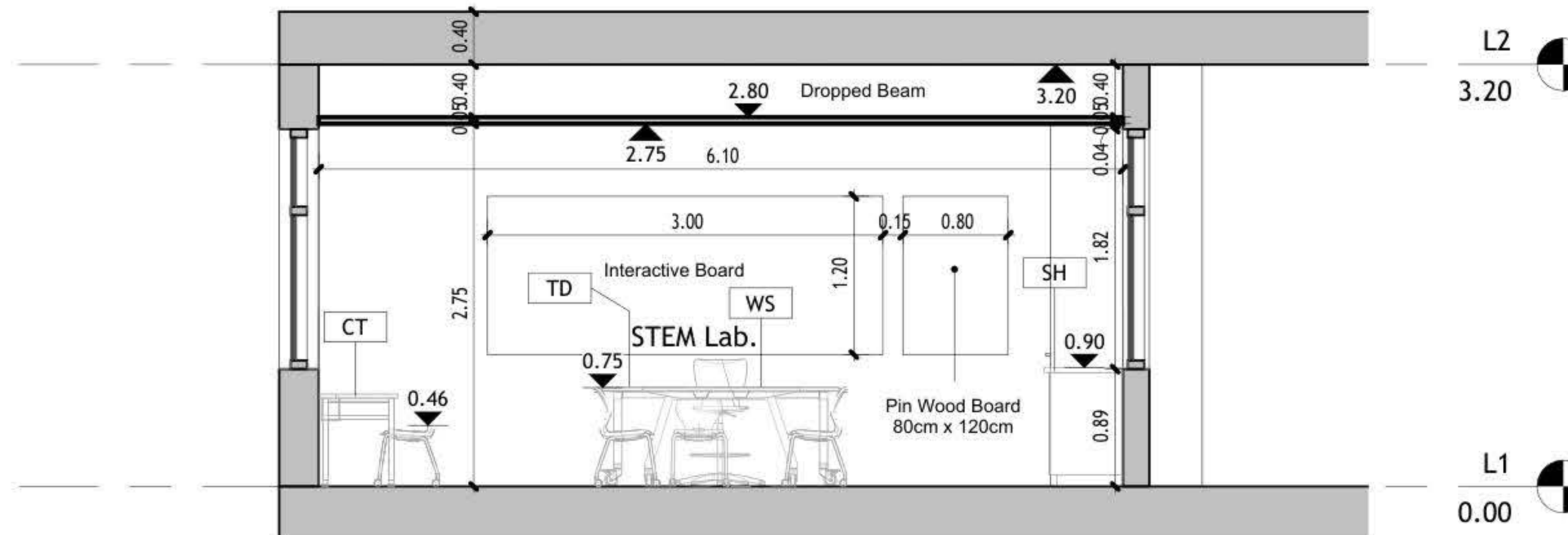
DRAWING TITLE:

Reflected Cieling Plan

JOB #	DWG #	BLOCK #
	A103	00
SCALE:	Sht. of	REV. #
1 : 50		



① Elev. C
1 : 50



② Elev. D
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

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DESIGNED BY:

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DWG ISSUE DATE: 03/31/22

PROJECT:

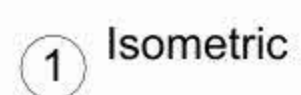
Eight STEM Labs in Middle and
Northern Governorates

Faroun Secondary Girls School

DRAWING TITLE:

Internal Elevations

JOB #	DWG #	BLOCK #
	A105	00
SCALE:	Sht. of	REV. #
1 : 50		



JOB #	DWG #	A106	BLOCK #	0
SCALE:	Sht.	of	REV. #	

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH,
			INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>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.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
1		
2		
3		
4		
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 Ramallah
 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering

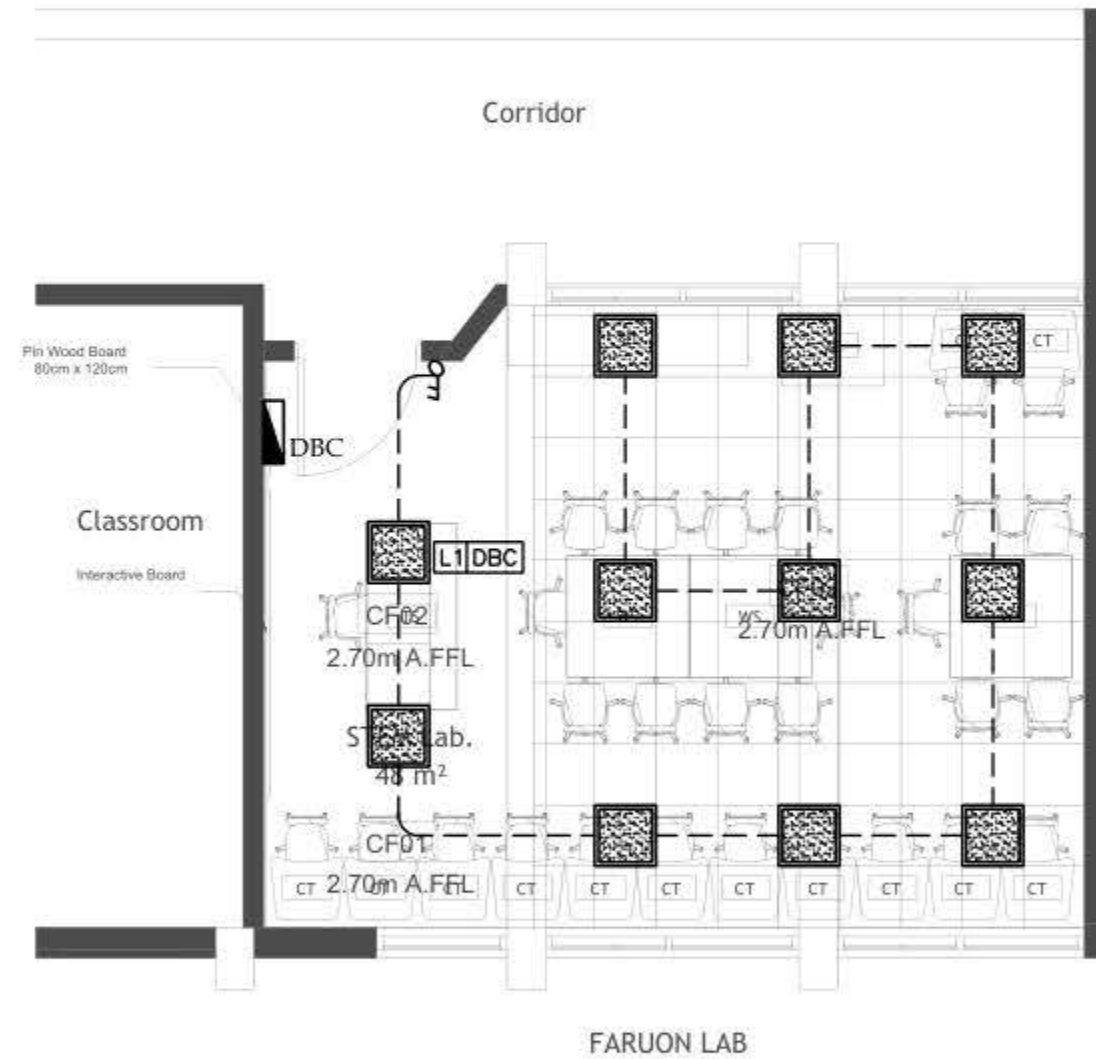
Prepared by: E.E. GHANI ABD. ALI
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

FARUON DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	

NOTES



NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

orbit Ramallah
 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
 Orbit Consultant Engineers

Electrical Engineering
 Designed by: F. L. D. 001 001 001
 Drawn by: 001
 Checked by: F. L. D. 001 001 001
 Approved by: F. L. D. 001 001 001

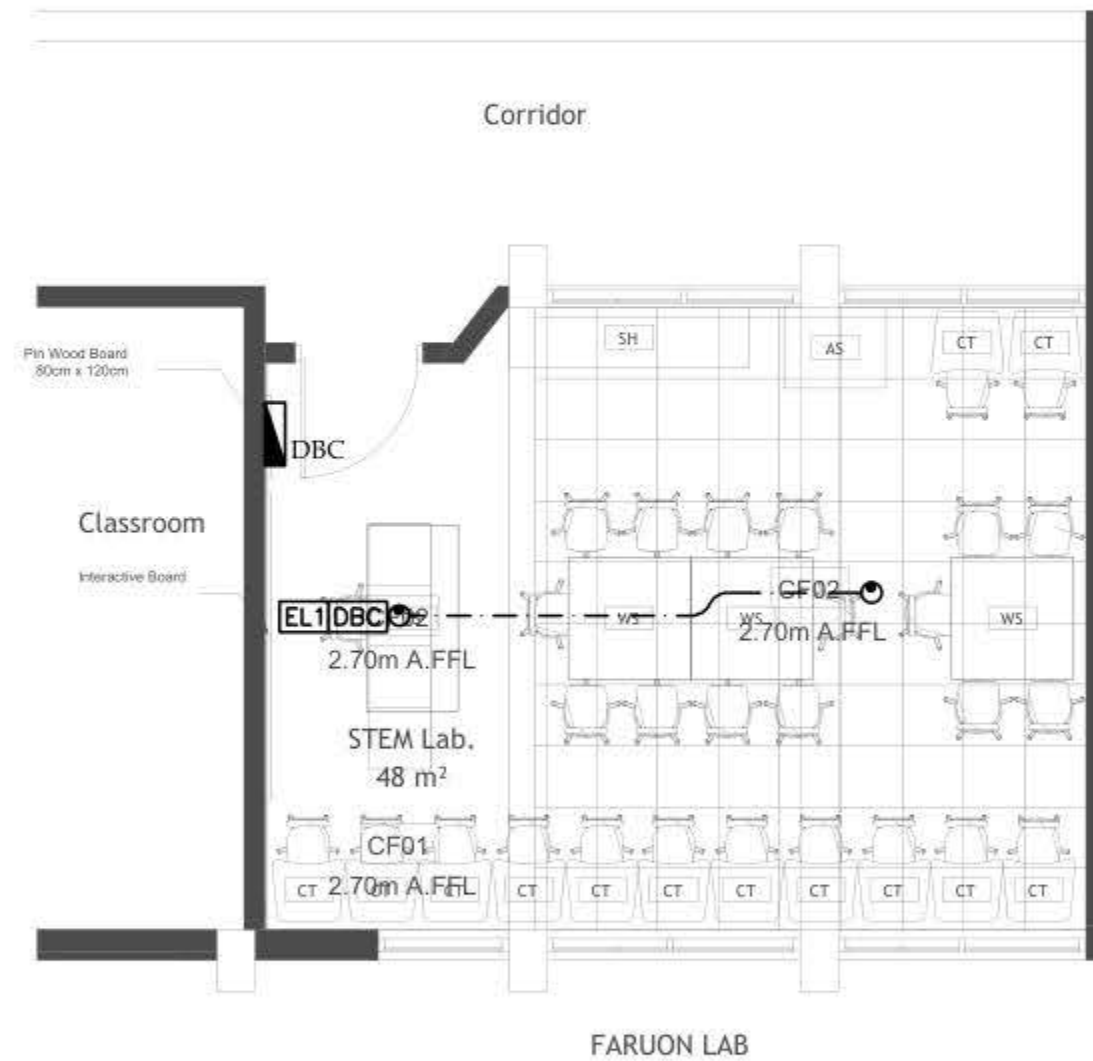
FARUON DESIGN

LIGHTING LAYOUT

Date:	001/001/001
Scale:	1/100
City:	RAMALLAH
Sheet:	001/001

E 101

NOTES



NO	DATE	DESCRIPTION
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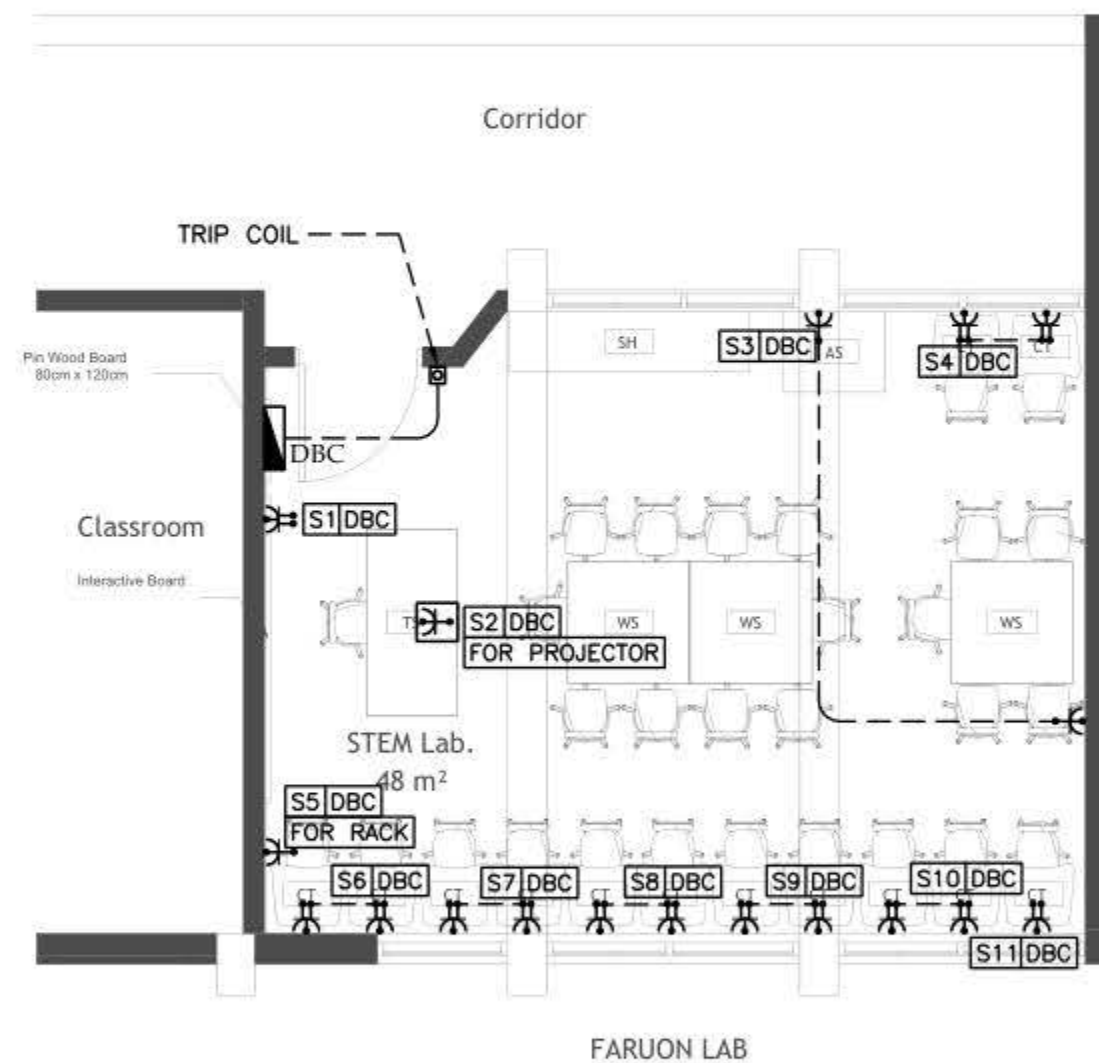
orbit Ramallah
 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
 Orbit Consultant Engineers

Electrical Engineering
 Designed by: F. L. D. 001 001 001
 Drawn by: 001
 Checked by: F. L. D. 001 001 001
 Approved by: F. L. D. 001 001 001
FARUON DESIGN

EMERGENCY LIGHTING LAYOUT

Date:	001/001/001
Scale:	1/100
City:	RAMALLAH
Sheet:	001/001

E 201

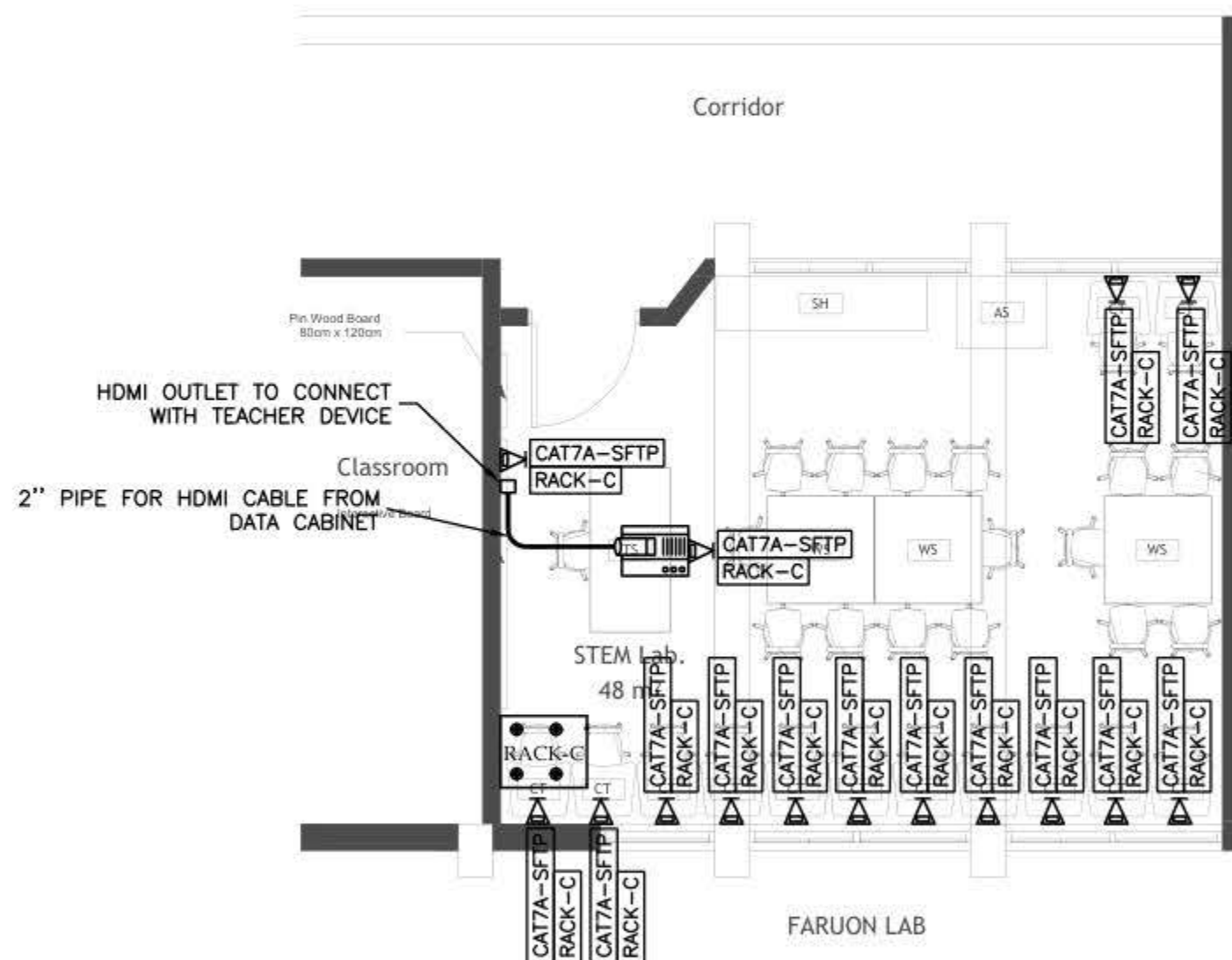


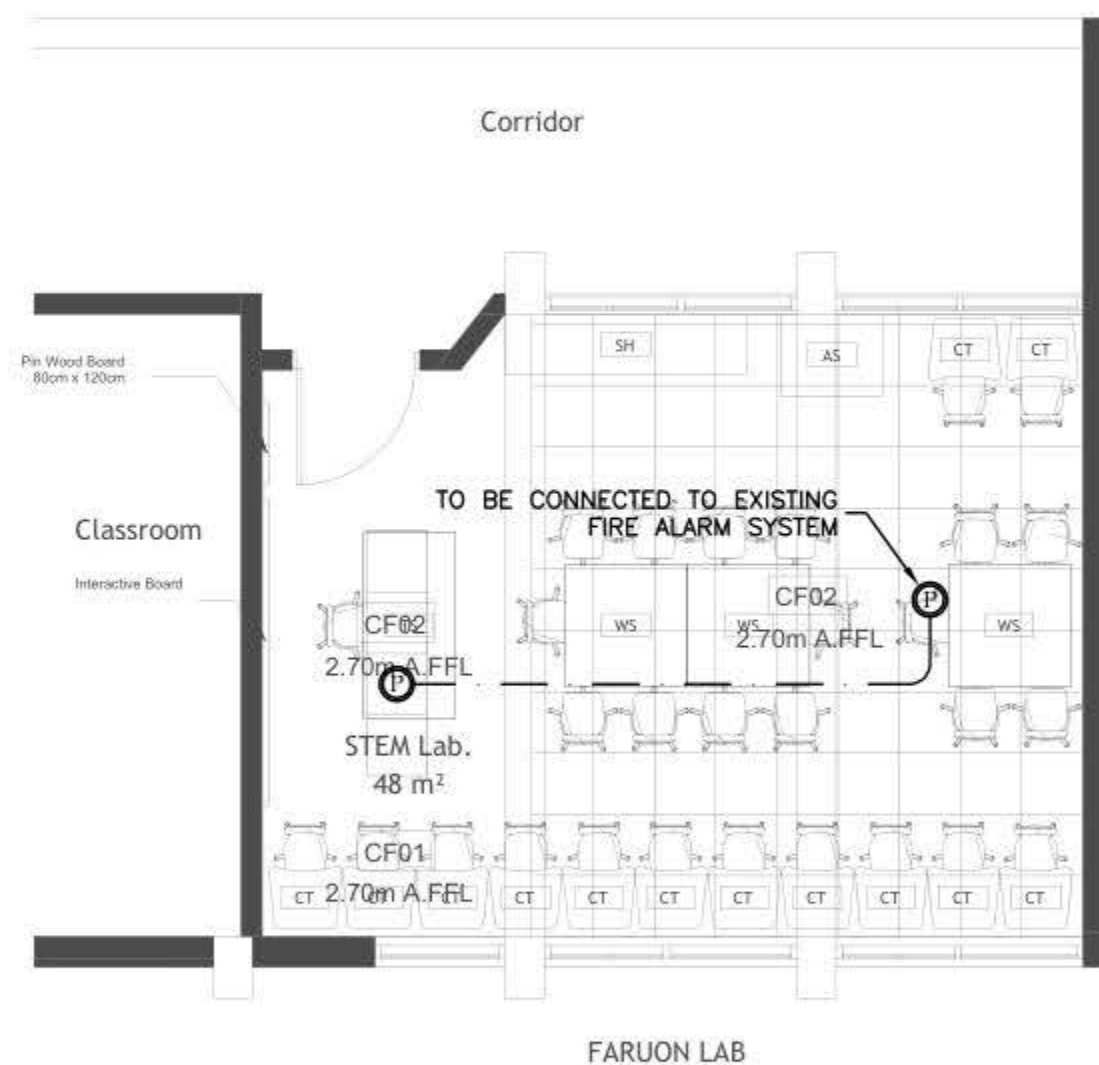


POWER FOR MECH

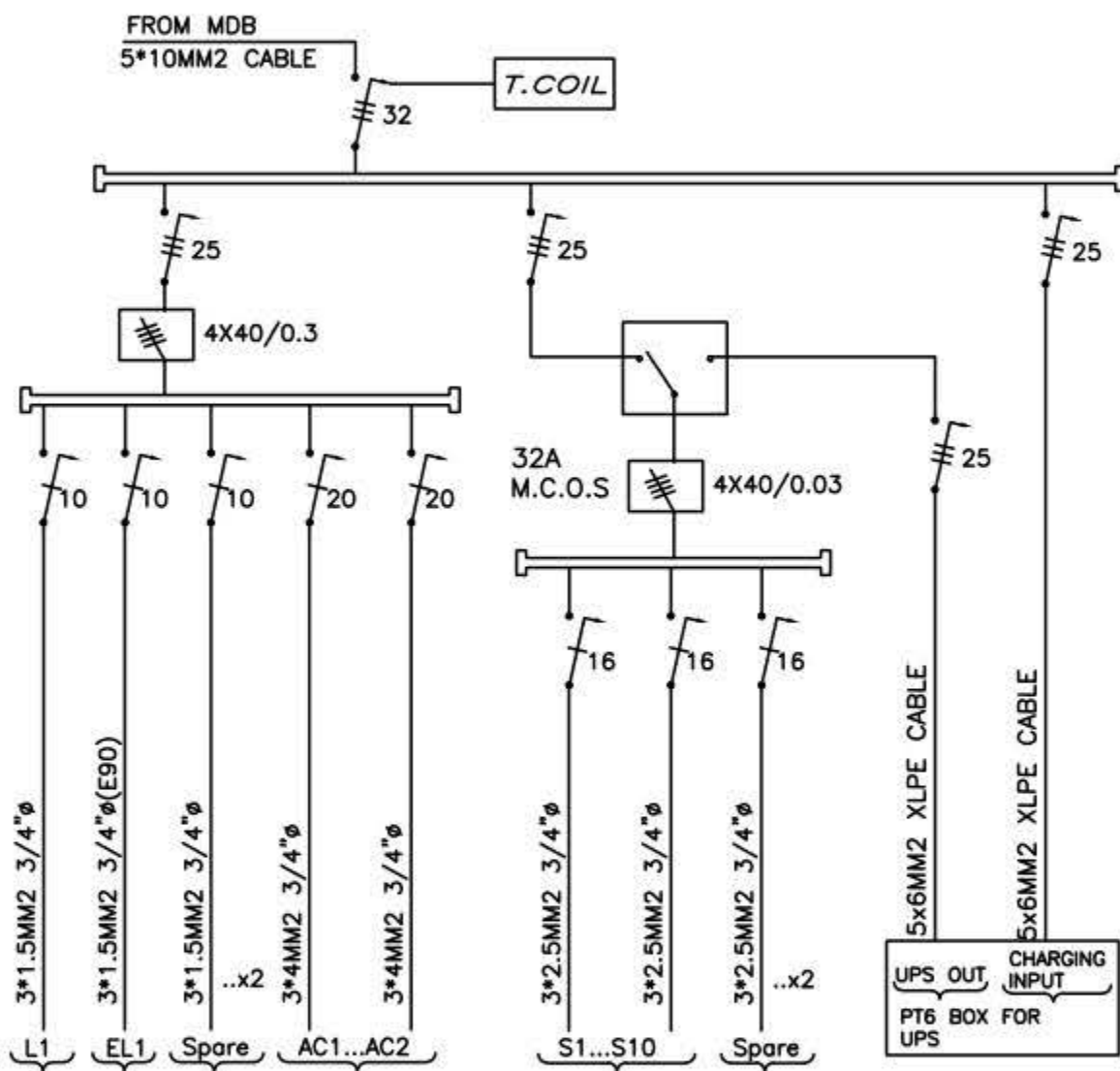
Ch:	RAMULAH	E 401
Net:	GEORGE	

E 401





BOARD NAME: DBC



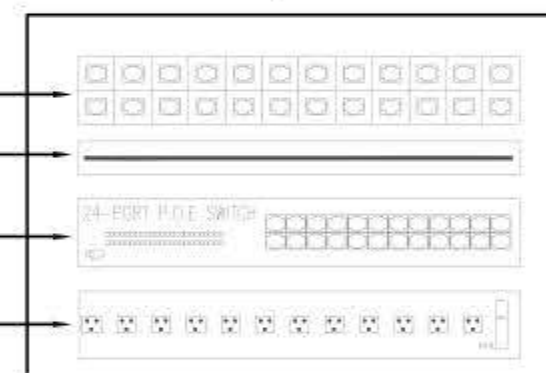
15 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering

Designed by: F. J. B. 001 001 001

Drawn by: 001

Checked by: F. J. B. 001 001 001

Approved by: F. J. B. 001 001 001

FARUON DESIGN

POWER DIAGRAMS

Date: 001/001/001

Scale: 1/100

City: RAMALLAH

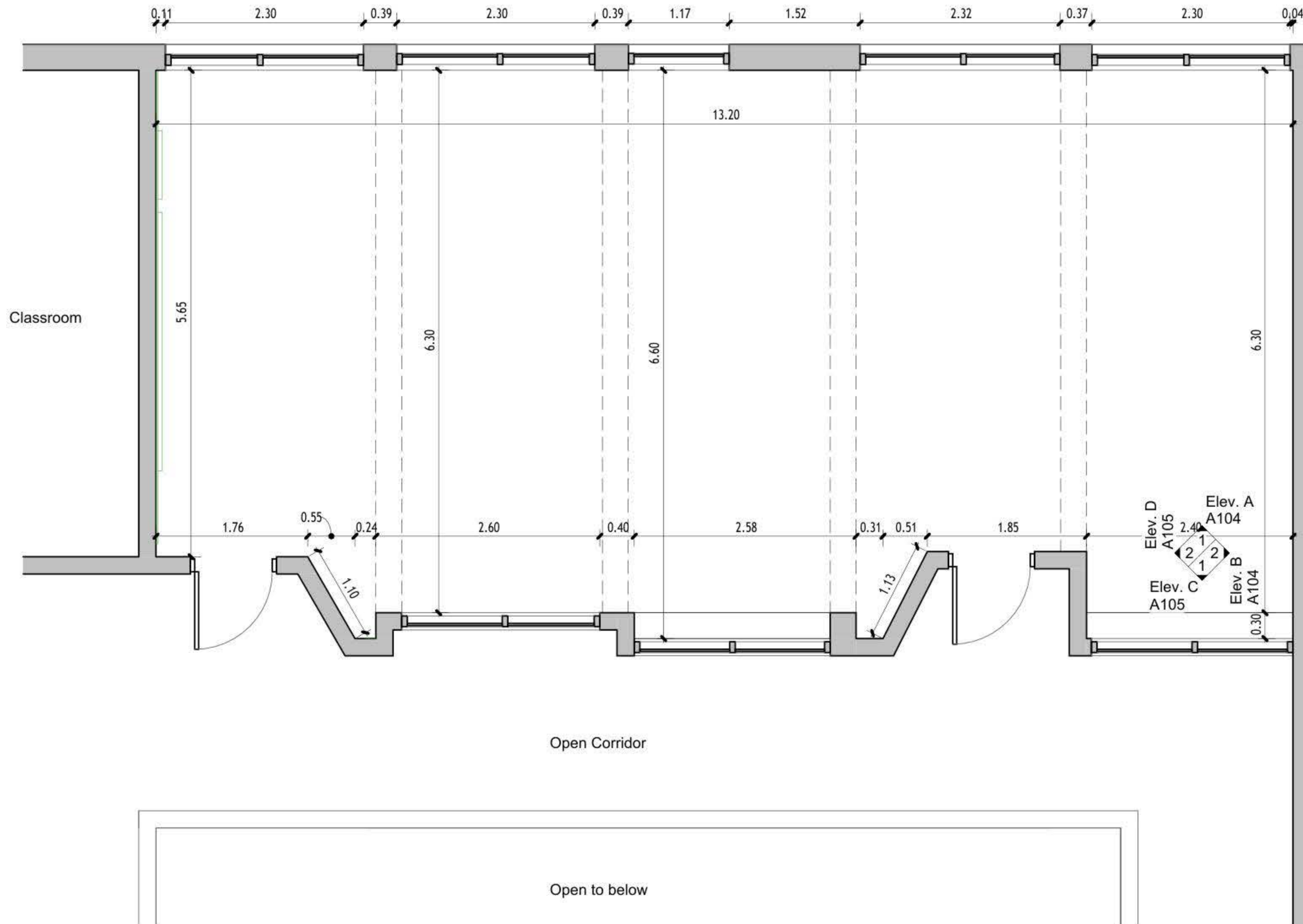
Sheet: 001/001

E 701

Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

Ramein Secondary Boys School





DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

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APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

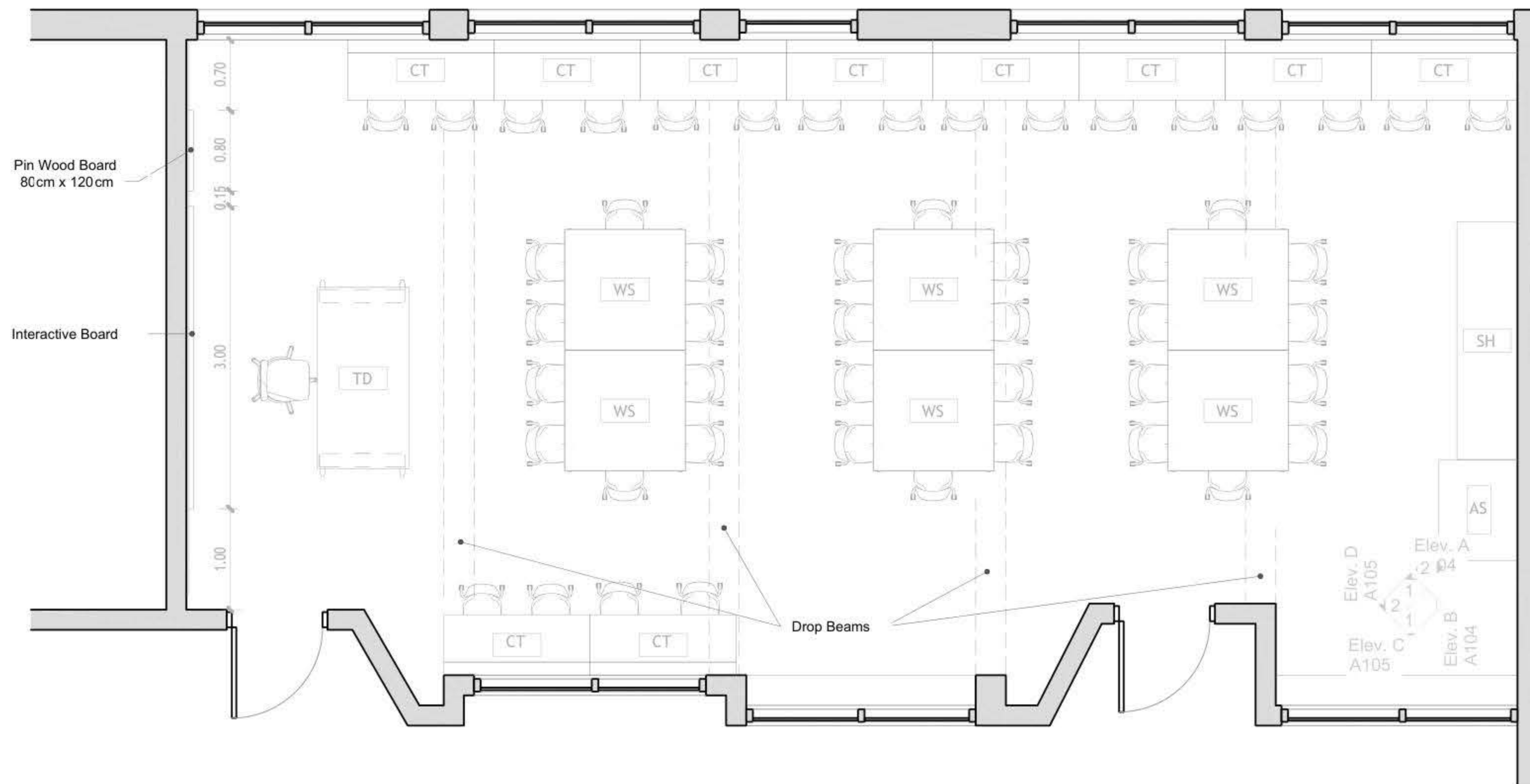
Ramein Secondary Boys School

DRAWING TITLE:

Dimensions Plan

JOB #	DWG #	BLOCK #
	A101	00
SCALE:	Sht. of	REV. #
1 : 50		

Furniture Schedule		
ID	Description	Count
	Student Chair	45
AS	Arts Storage (A1)	1
CT	Computer Table	10
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	2
WS	Work Station	6



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

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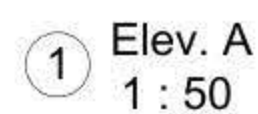
STEM Labs Design- As-Built

Ramein Secondary Boys School

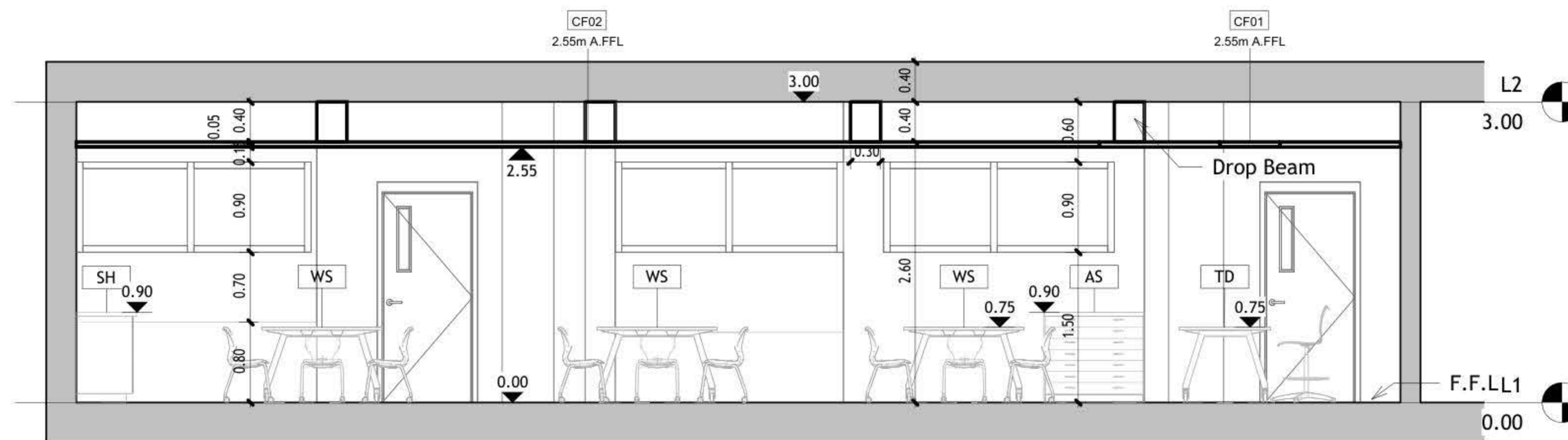
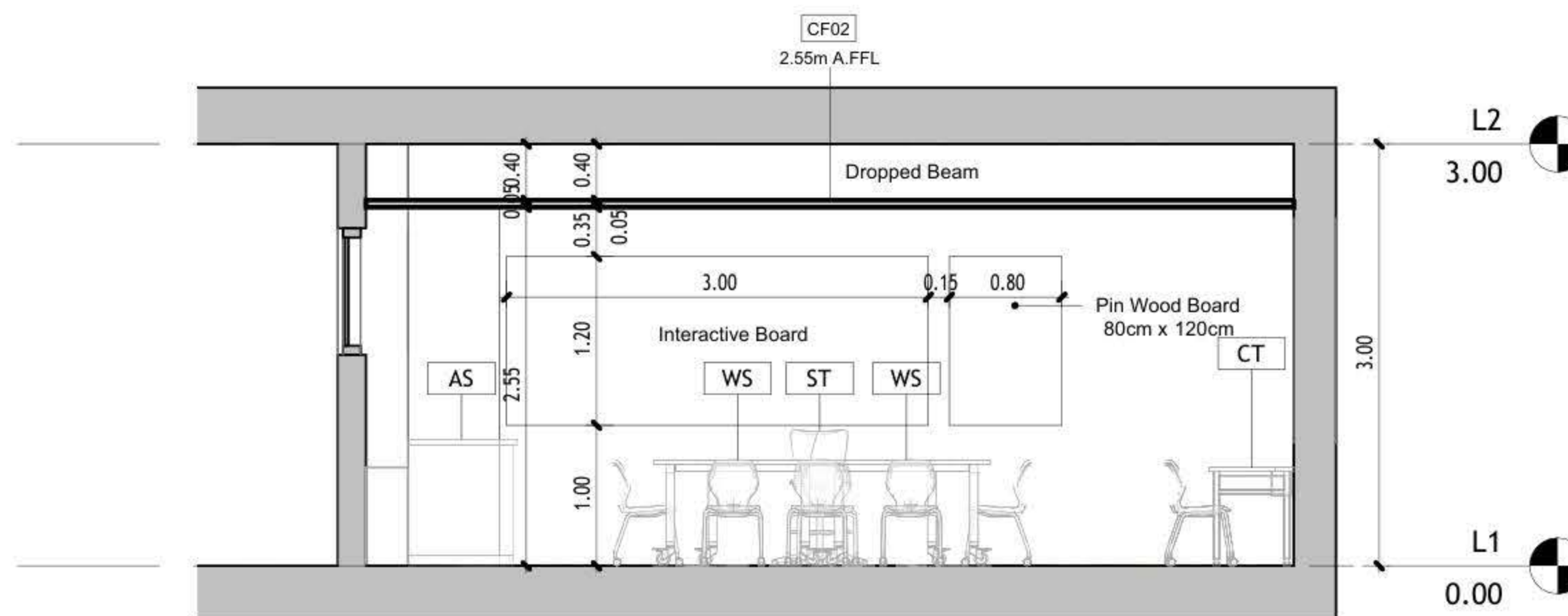
DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	Sht. of	REV #
1 : 50		

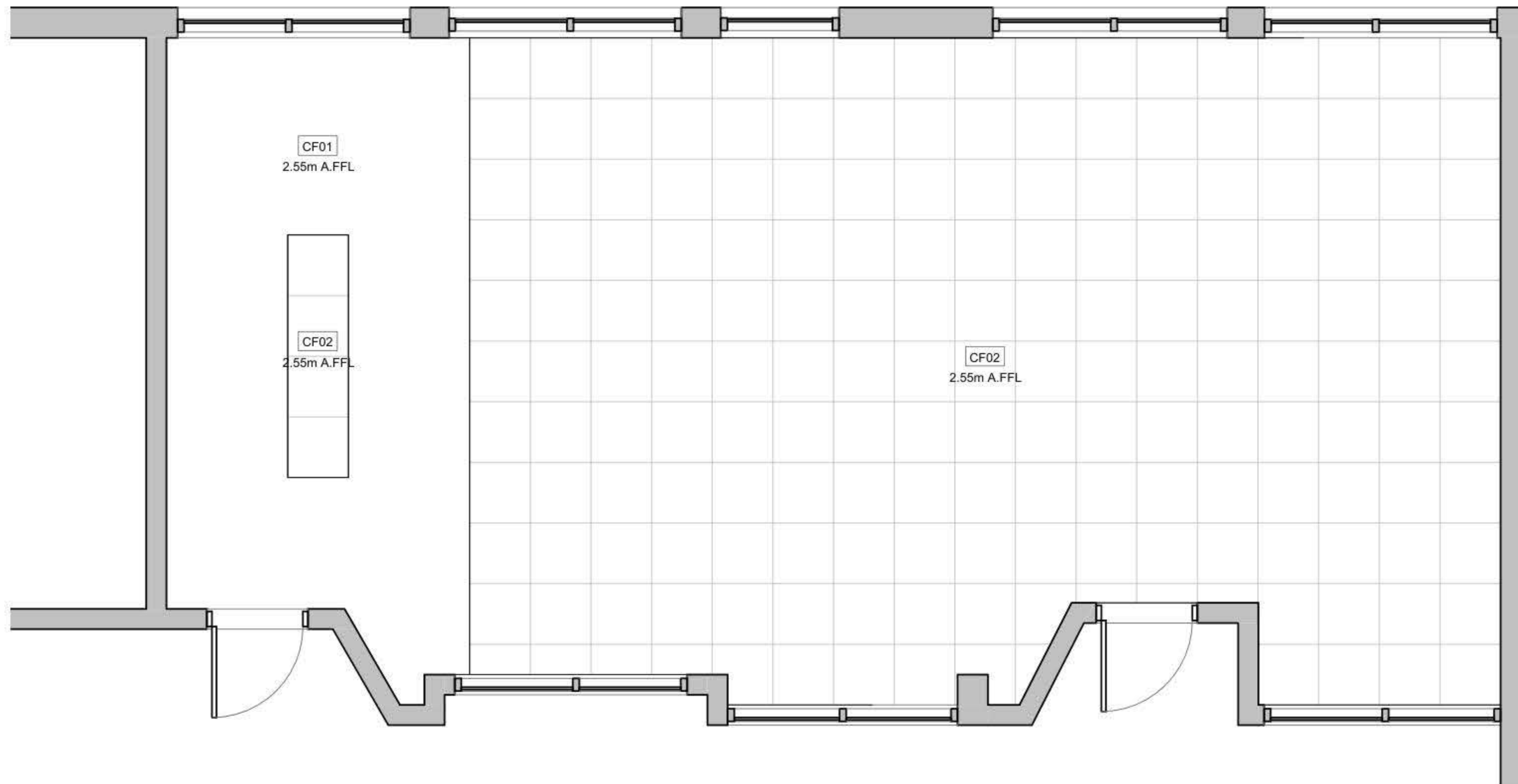


JOB #	DWG A104	BLOCK #	0
SCALE: 1 : 50	Sht. of	REV. #	



JOB #	DWG # A105	BLOCK # 00
SCALE: 1 : 50	Sht. of	REV, #

Ceiling Schedule		
Type Mark	Description	Area
CF01	Gypsum Board	16 m ²
CF02	60 * 60 Mineral Fiber Tiles	66 m ²
Grand total: 3		82 m ²



1 Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 11/12/25

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

Ramein Secondary Boys School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG #	BLOCK #
	A103	00
SCALE:	Sht. of	REV. #
1 : 50		

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH,
			INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>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.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
1		
2		
3		
4		
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6		



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 Ramallah
 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

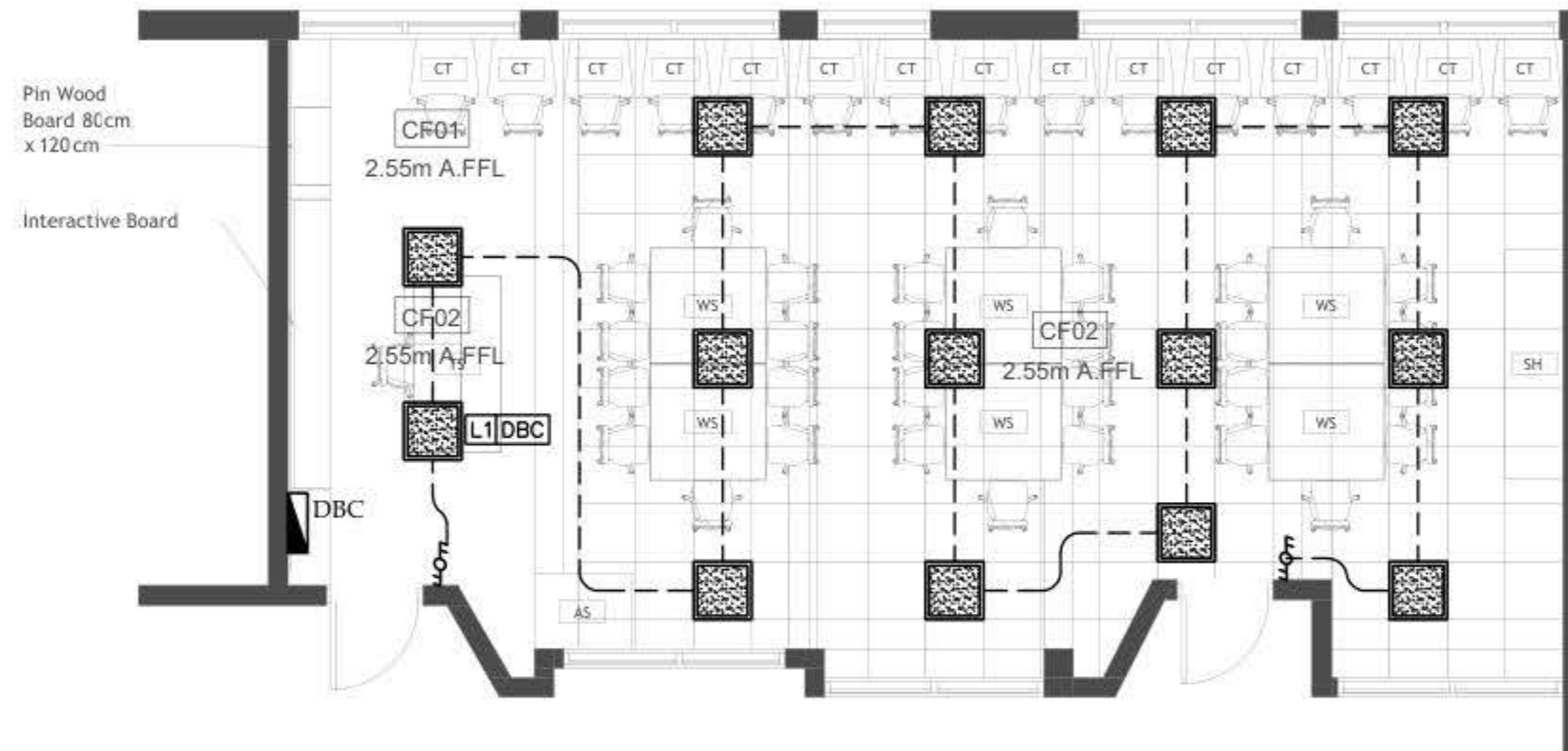
Electrical Engineering

Prepared by: E.E. GHANI ABD. ALKAR
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramadan Sal
RAMEEN DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	

NOTES



RAMEEN LAB

NO	DATE	DESCRIPTION
1		
2		
3		
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6		


Orbit Ramallah
 Tel/Fax 02-2967876
 E-Mail : info@orbit.ps
 Website : www.orbit.ps
Orbit Consultant Engineers

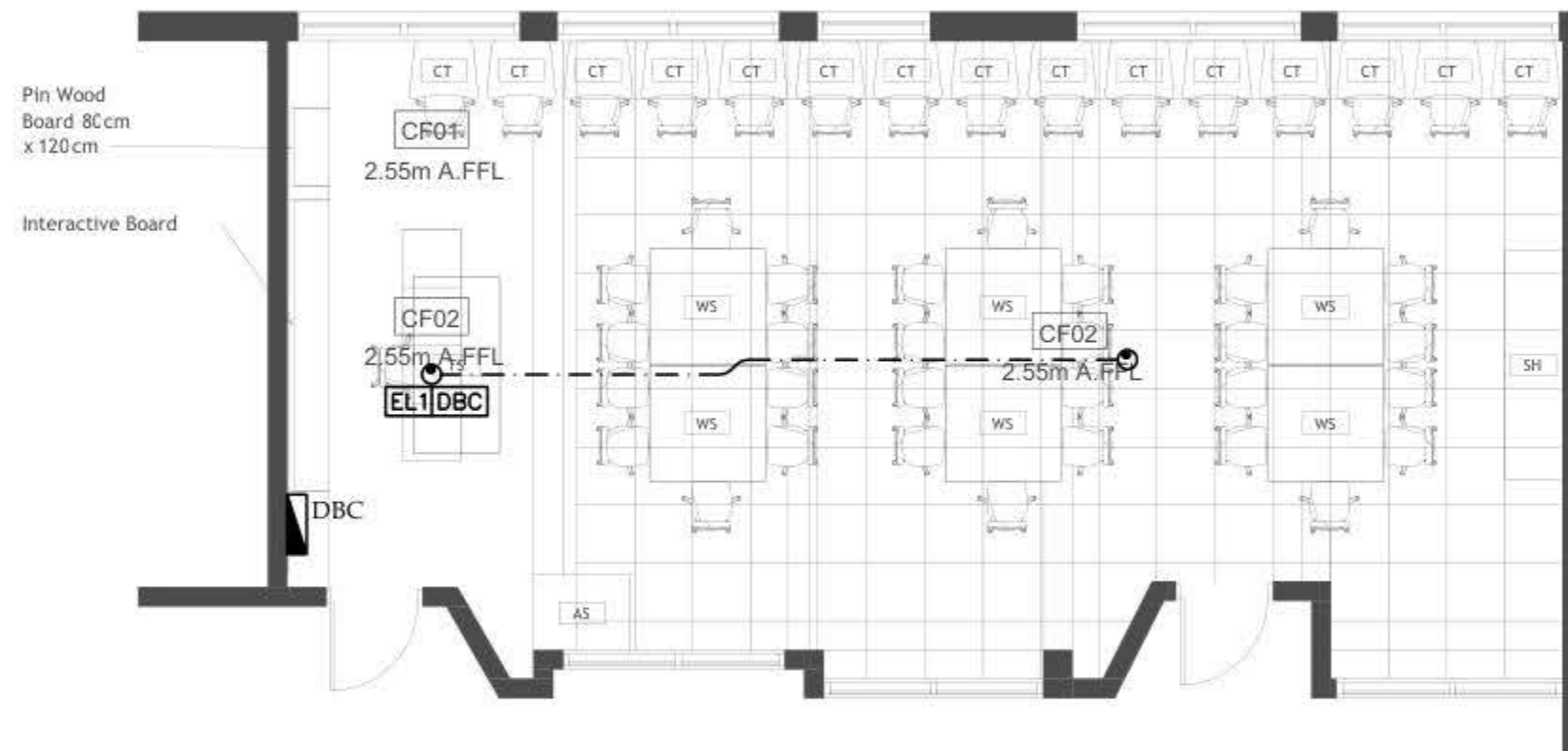
Electrical Engineering
 Designed by : F. E. El-Dokki
 Drawn by : F. E. El-Dokki
 Checked by : F. E. El-Dokki
 Approved by : F. E. El-Dokki
RAMEEN DESIGN

LIGHTING LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/08

E 101

NOTES



RAMEEN LAB

NO	DATE	DESCRIPTION
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4		
5		
6		

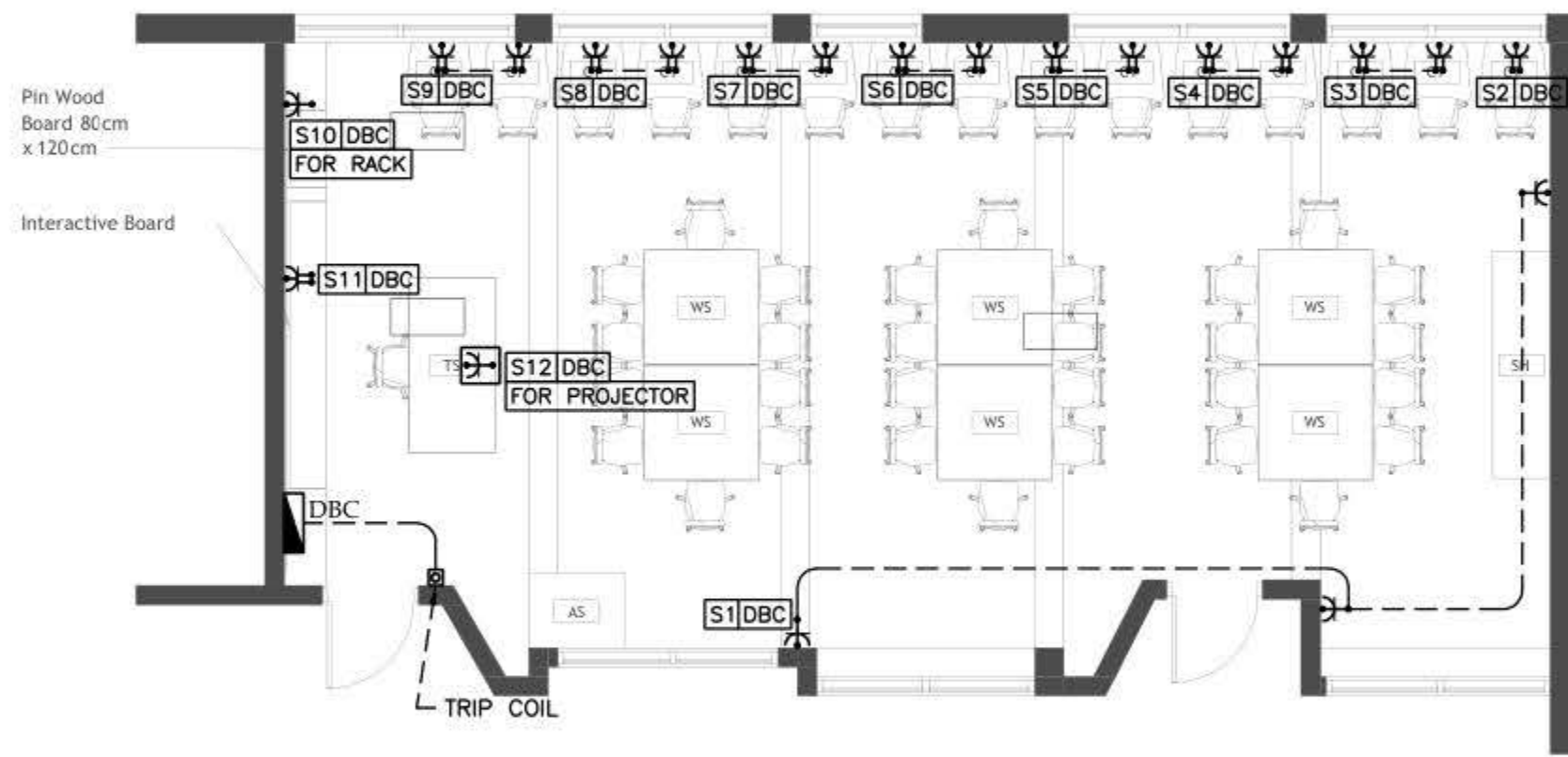


Electrical Engineering
 Designed by: F. E. El-Masry
 Drawn by: F. E. El-Masry
 Checked by: F. E. El-Masry
 Approved by: F. E. El-Masry
RAMEEN DESIGN

EMERGENCY LIGHTING LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/08

E 201



NOTES

NO	DATE	DESCRIPTION
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3		
4		
5		
6		

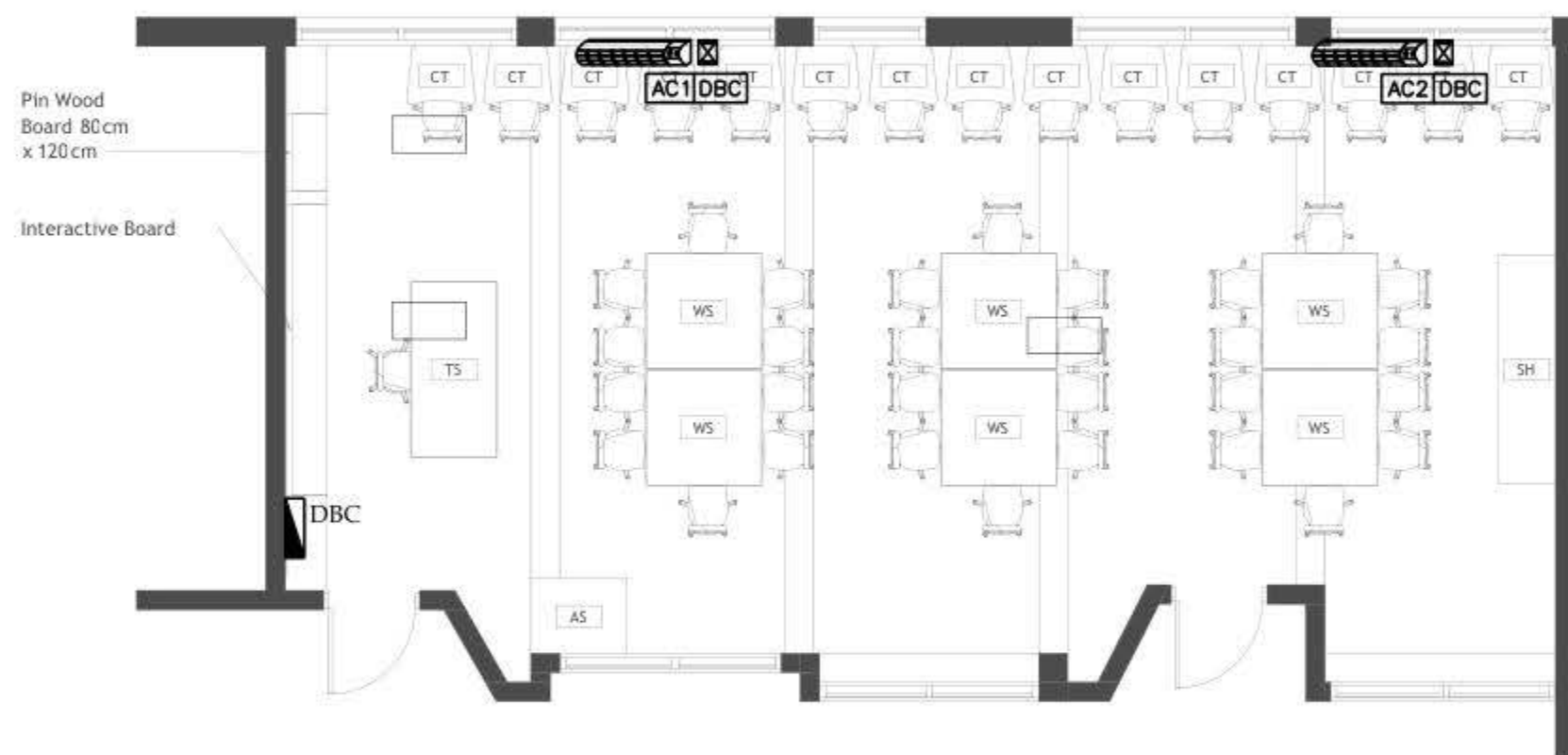

 Ramallah
 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering
 Designed by: F.E. B. 001/01/01/01
 Drawn by: F.E. B. 001/01/01/01
 Checked by: F.E. B. 001/01/01/01
 Approved by: F.E. B. 001/01/01/01
RAMEEN DESIGN

POWER LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	3/100

E 301



RAMEEN LAB

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering

Designed by: F. L. B-2014-M01-0029

Drawn by	Sign
Checked by	EE Dept. Sec. Mark

Approved by: J.F. Martinez, Sr.

RAMEEN DESIGN

POWER FOR MECH

Date: 30.01.2025

1804 1805

E 401



Orbit Electrical Engineering

11000 110th Ave. S.

Maple Valley, WA 98043

Phone: 206-361-8888

Fax: 206-361-8889

Web: www.orbit-ps.com

Email: info@orbit-ps.com

Orbit Consultant Engineers

Electrical Engineering

Designed by: F. J. Rameen, P.E.

Drawn by: J. Rameen

Checked by: F. J. Rameen, P.E.

Approved by: F. J. Rameen, P.E.

RAMEEN DESIGN

LOW VOLTAGE LAYOUT

Date: 01/10/2005

Sheet: 1/100

City: RAYMOND

State: ALABAMA

Web: www.orbit-ps.com

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Electrical Engineering

Designed by: F. J. Rameen, P.E.

Drawn by: J. Rameen

Checked by: F. J. Rameen, P.E.

Approved by: F. J. Rameen, P.E.

RAMEEN DESIGN

LOW VOLTAGE LAYOUT

Date: 01/10/2005

Sheet: 1/100

City: RAYMOND

State: ALABAMA

Web: www.orbit-ps.com

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Electrical Engineering

Designed by: F. J. Rameen, P.E.

Drawn by: J. Rameen

Checked by: F. J. Rameen, P.E.

Approved by: F. J. Rameen, P.E.

RAMEEN DESIGN

LOW VOLTAGE LAYOUT

Date: 01/10/2005

Sheet: 1/100

City: RAYMOND

State: ALABAMA

Web: www.orbit-ps.com

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Electrical Engineering

Designed by: F. J. Rameen, P.E.

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Approved by: F. J. Rameen, P.E.

RAMEEN DESIGN

LOW VOLTAGE LAYOUT

Date: 01/10/2005

Sheet: 1/100

City: RAYMOND

State: ALABAMA

Web: www.orbit-ps.com

Orbit Consultant Engineers

Electrical Engineering

Designed by: F. J. Rameen, P.E.

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RAMEEN DESIGN

LOW VOLTAGE LAYOUT

Date: 01/10/2005

Sheet: 1/100

City: RAYMOND

State: ALABAMA

Web: www.orbit-ps.com

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Electrical Engineering

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Drawn by: J. Rameen

Checked by: F. J. Rameen, P.E.

Approved by: F. J. Rameen, P.E.

RAMEEN DESIGN

LOW VOLTAGE LAYOUT

Date: 01/10/2005

Sheet: 1/100

City: RAYMOND

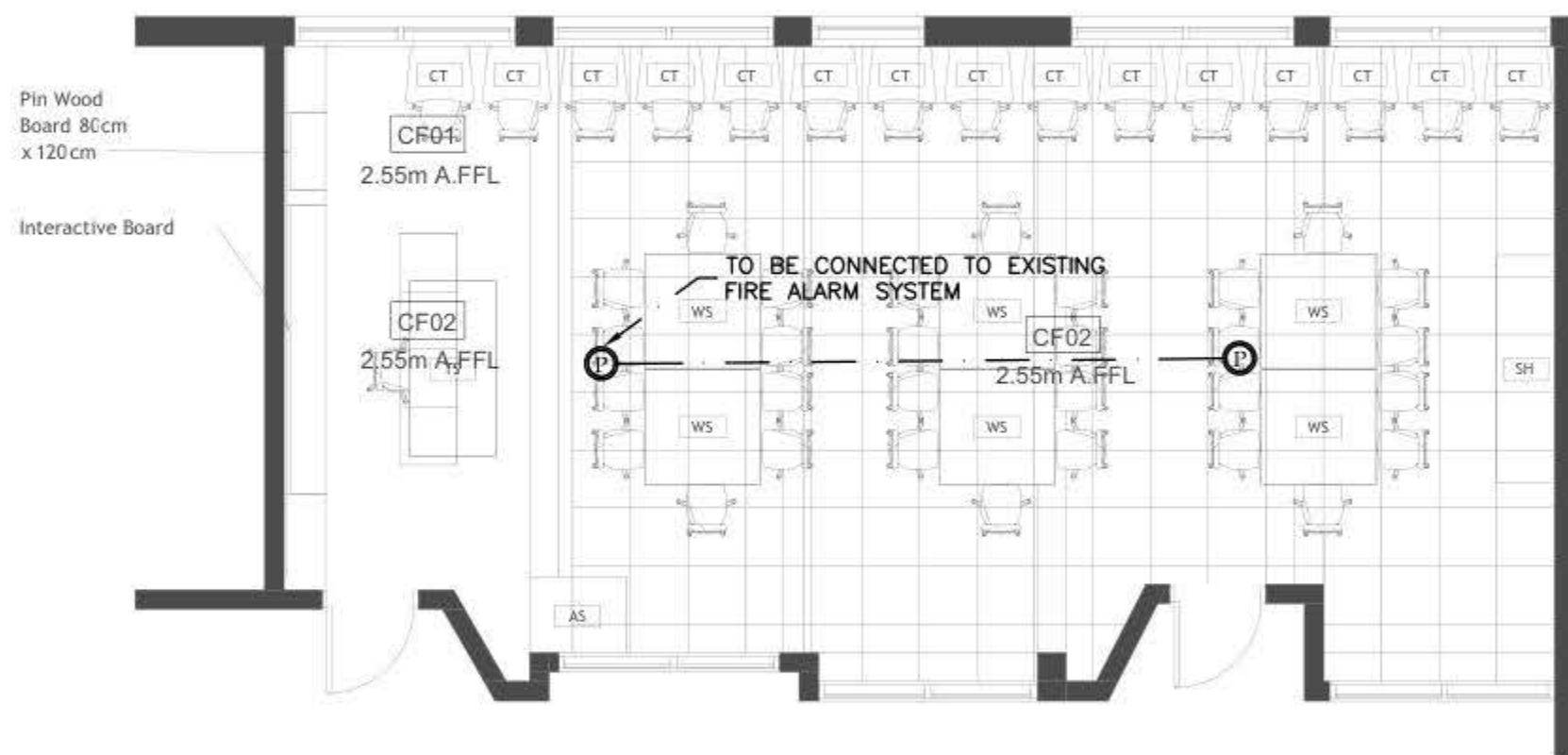
State: ALABAMA

Web: www.orbit-ps.com

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Electrical Engineering

Designed by: F. J. Rameen, P.E.



RAMEEN LAB



Electrical Engineering

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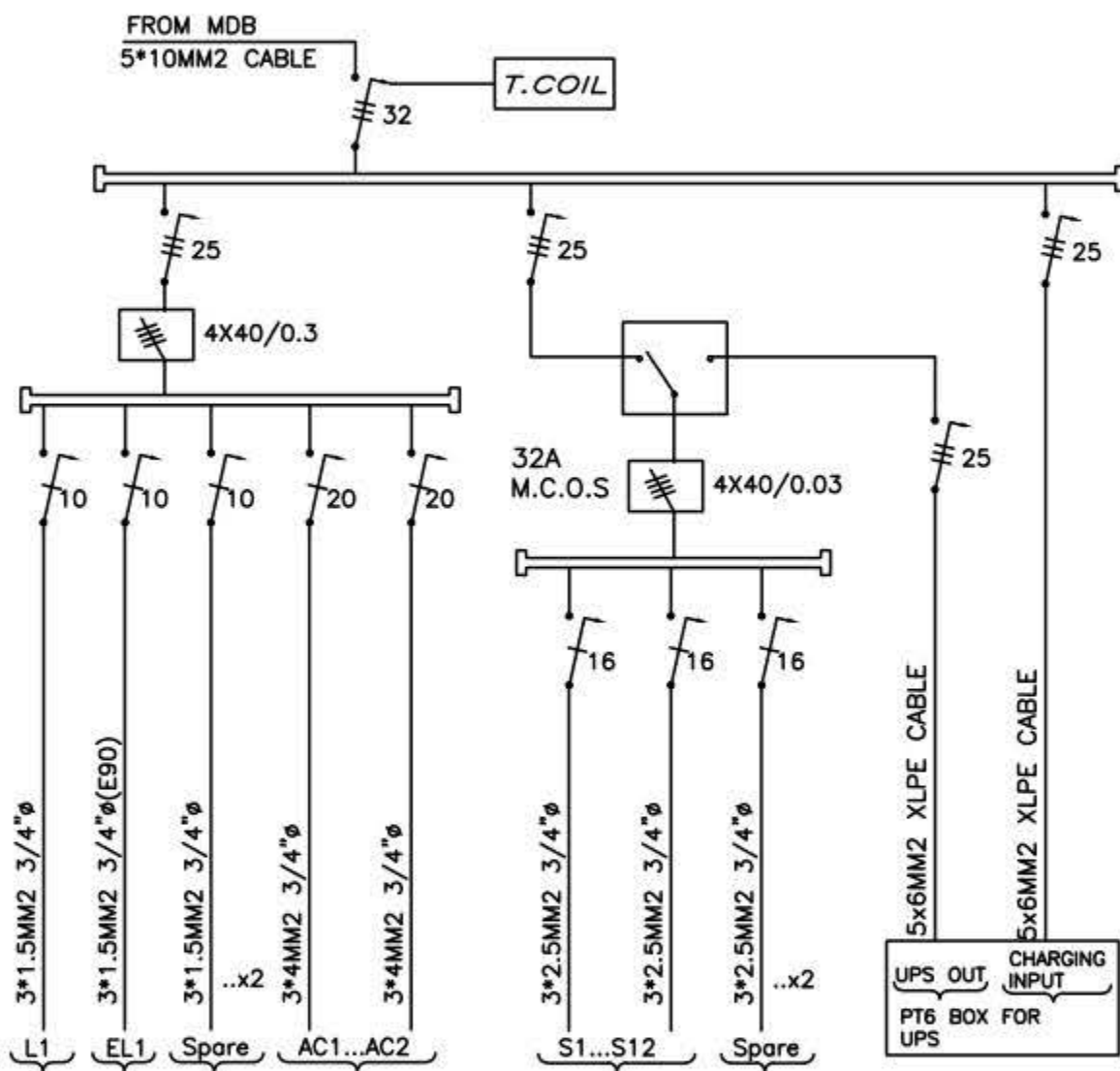
Approved by: J.E. Hernandez Sola

RAMEEN DESIGN

FIRE ALARM LAYOUT

E 601

BOARD NAME: DBC



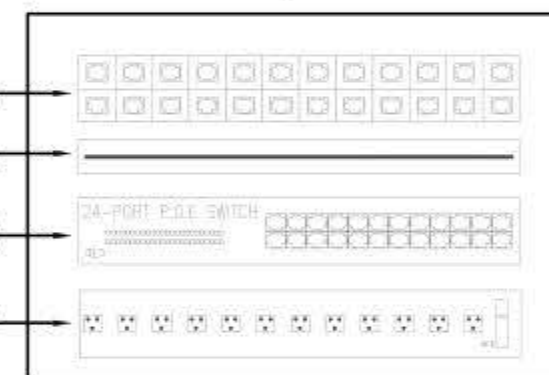
17 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering

Designed by: F. J. B. 001 001 001

Drawn by: 001

Checked by: F. J. B. 001 001 001

Approved by: F. J. B. 001 001 001

RAMEEN DESIGN

POWER DIAGRAMS

Date: 001/001/001

Scale: 1/100

City: RAMALLAH

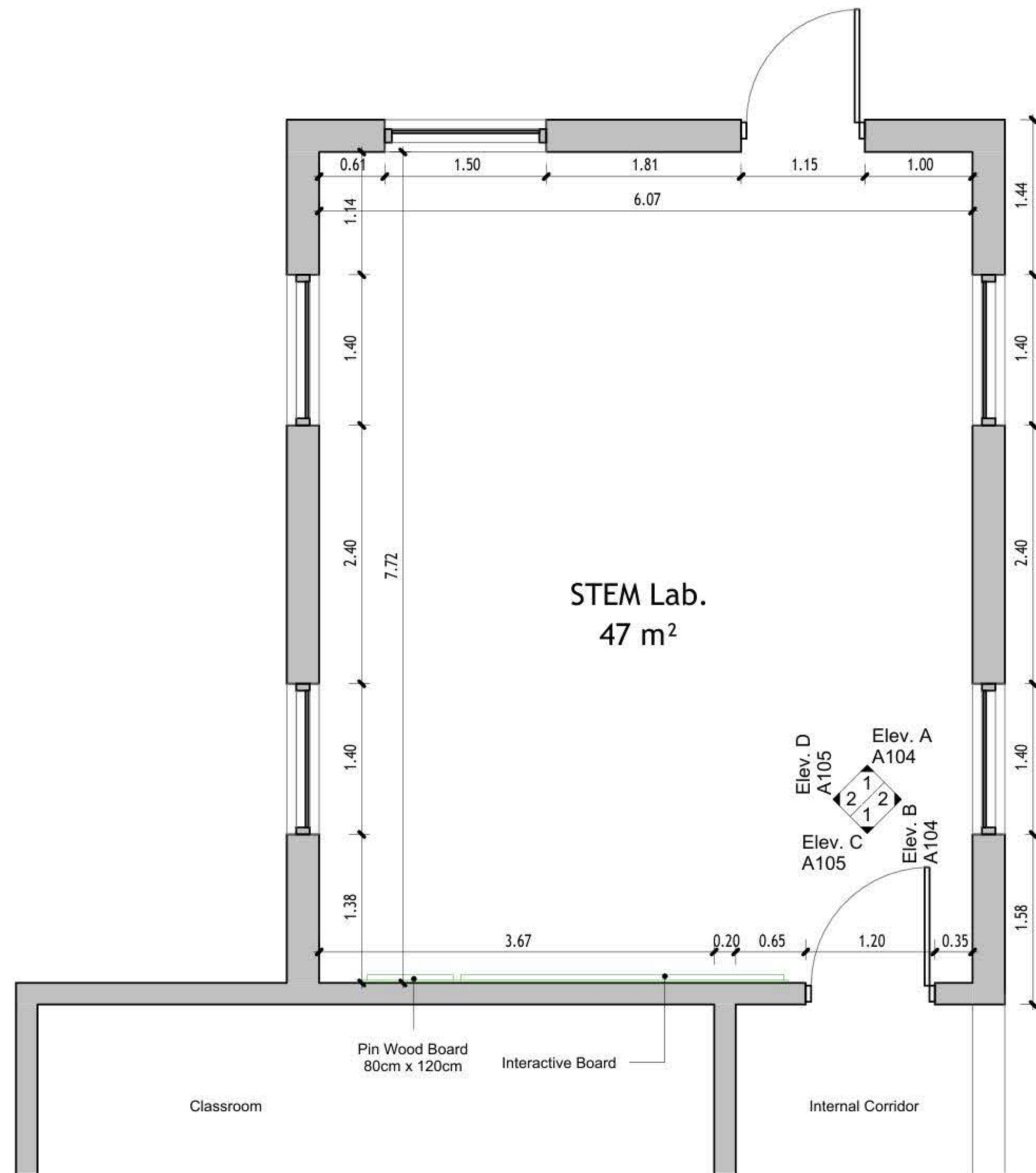
Sheet: 001/001

E 701

Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

Tammoun Second Basic Boys School





① Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

**Eight STEM Labs in Middle and
Northern Governorates**

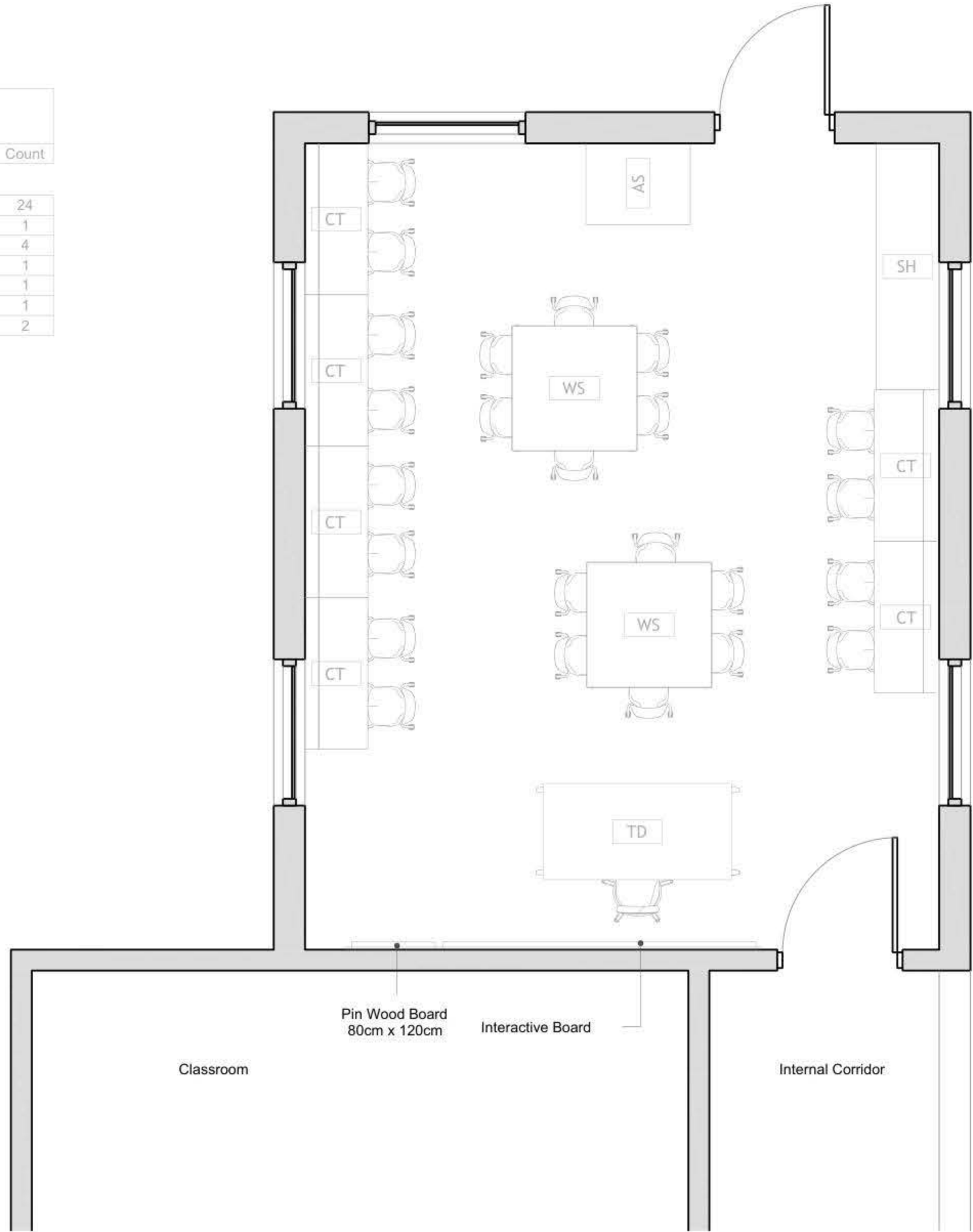
Tammoun Second Basic Boys School

DRAWING TITLE:

Dimensions Plan

JOB #	DWG #	BLOCK #
	A101	00
SCALE:	Sht. of	REV. #
1 : 50		

Furniture Schedule		
ID	Description	Count
	Student Chair	24
AS	Arts Storage (A1)	1
CT	Computer Table	4
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	2



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

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Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

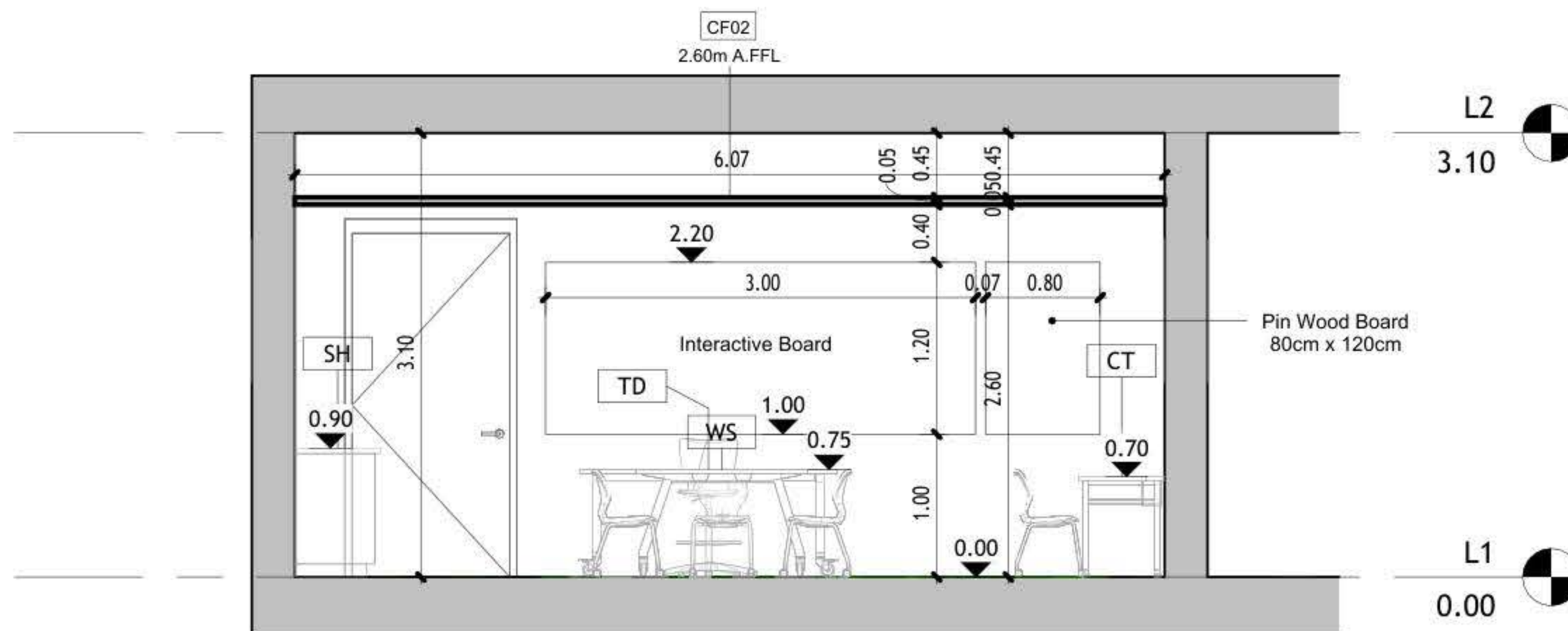
STEM Labs Design- As-Built

Tammoun Second Basic Boys School

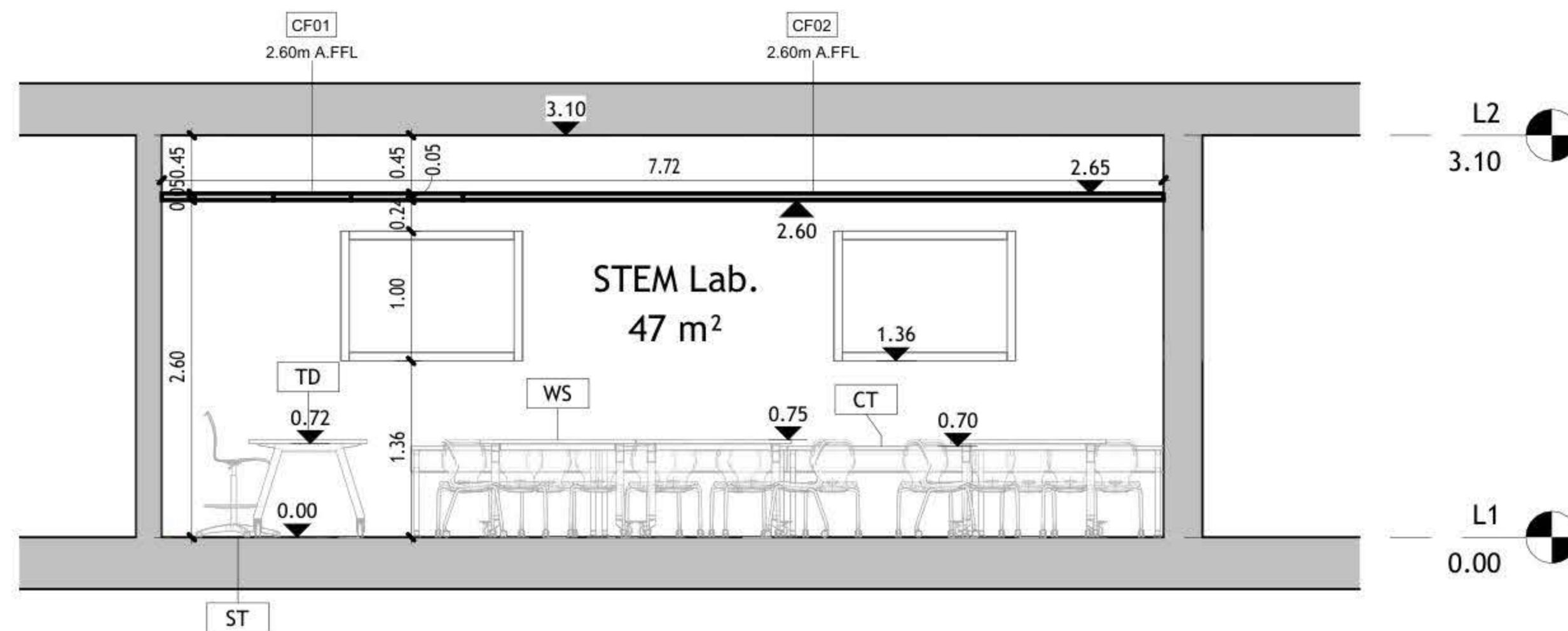
DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	REV. #	REV. #
1 : 50		



① Elev. C
1 : 50



② Elev. D
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

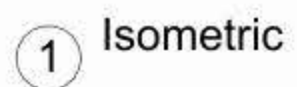
Tammoun Second Basic Boys School

DRAWING TITLE:

Internal Elevations

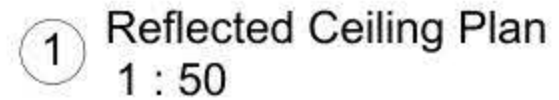
JOB #	DWG #	BLOCK #
SCALE: 1 : 50	Sht. of	REV. #

A105 00



JOB #	DWG #	A106	BLOCK #	0
SCALE:	Sht.	of	REV. #	

CF01	Gypsum Board	13 m ²
CF02	60 * 60 Mineral Fiber Tiles	34 m ²

47 m²

JOB #	DWG #	A103	BLOCK #	00
SCALE: 1 : 50	Sht. of		REV. #	

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
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E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
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			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
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			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
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			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
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			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
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			SUB DISTRIBUTION BOARD

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NOTES

No.	DATE	DESCRIPTION
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3		
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5		
6		



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 Ramallah
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 E.Mail :info@orbit.ps
 Website :www.orbit.ps
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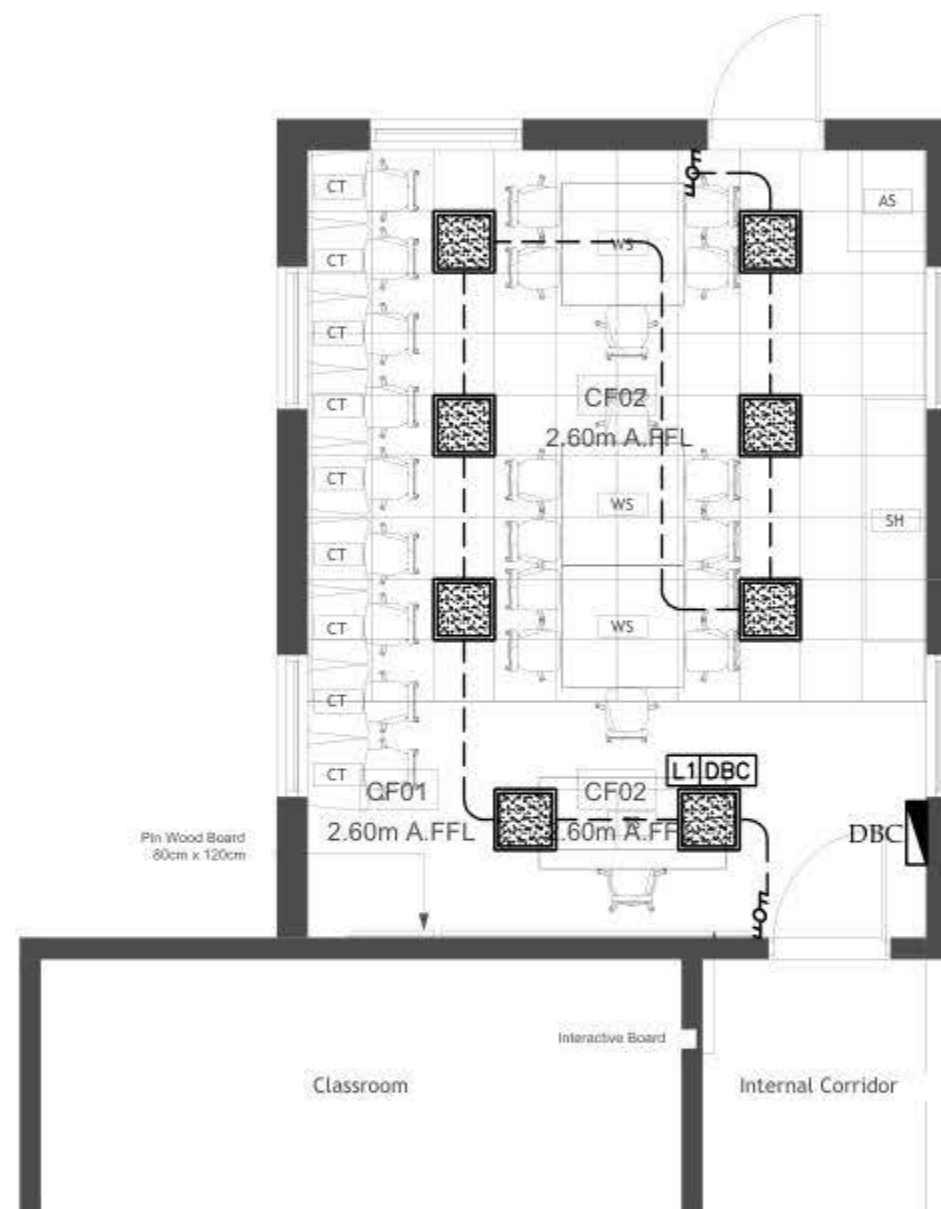
Electrical Engineering

Prepared by: E.E. GHANI ABD. ALKAR
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramadan Sal

TAMMOUN DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	



TAMMOUN LAB



Electrical Engineering

Designed by: J. C. B. 2011 MA1 4029

Drawn by	Sign
Checked by	E.E. Sheet No. Max

Approved by: J.F. Burrows, Sr.

TAMMOUN DESIGN

LIGHTING LAYOUT

E 101



TAMMOUN LAB



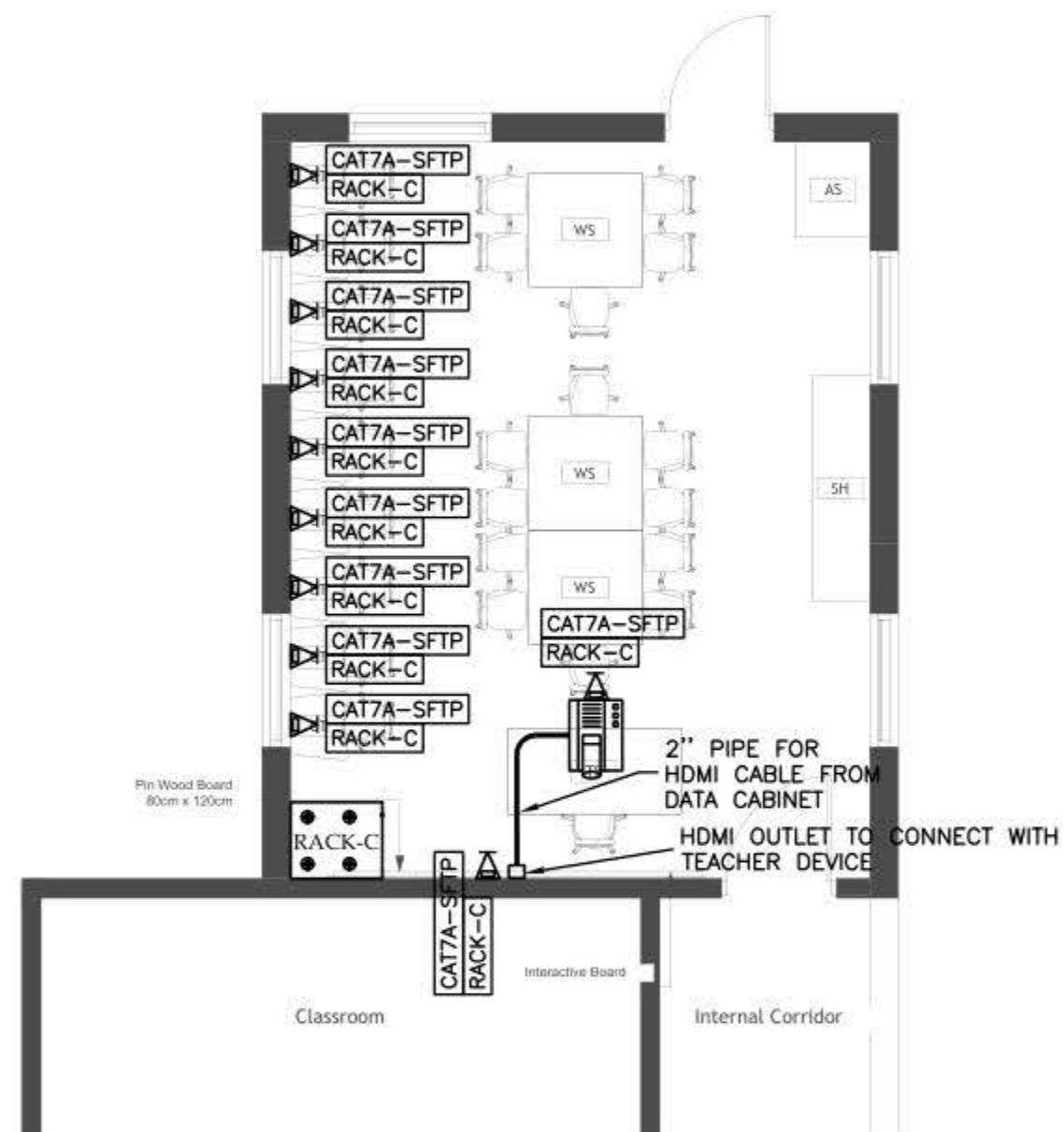
Electrical Engineering

Designed by: P. D. B. M. A. L. M. S.
Drawn by: [Signature]
Checked by: E. C. R. H. A. S. M.
Assigned by: J. F. M. S. S. S.

TAMMOUN DESIGN

EMERGENCY LIGHTING LAYOUT

E 201



TAMMOUN LAB



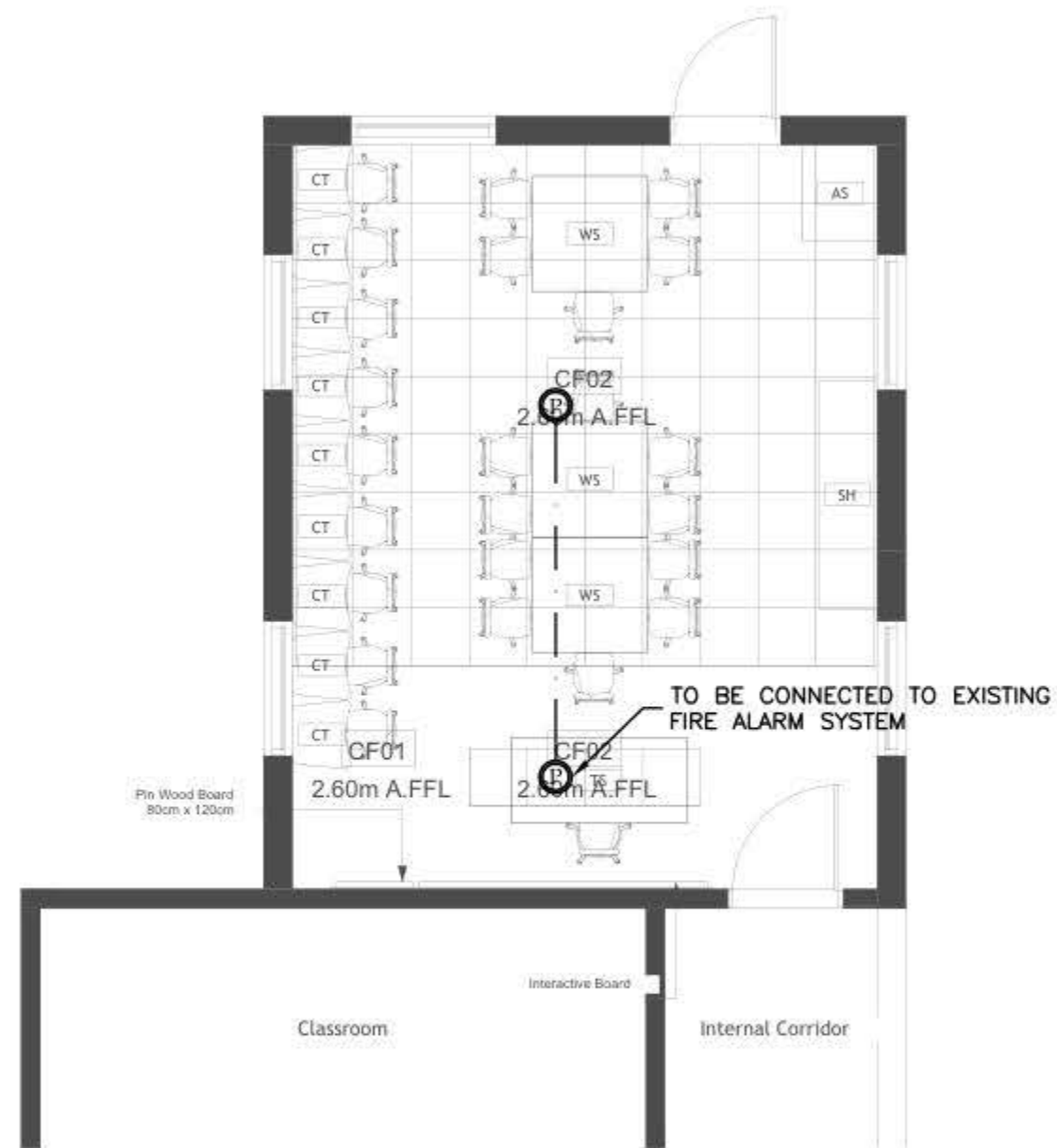
Electrical Engineering

Designed by: P. J. (2001) MALL 0024
Drawn by: (Sign)
Checked by: E.E. (2001) MALL 0024
Approved by: E.E. (2001) MALL 0024

TAMMOUN DESIGN

LOW VOLTAGE LAYOUT

E 501



NOTES

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



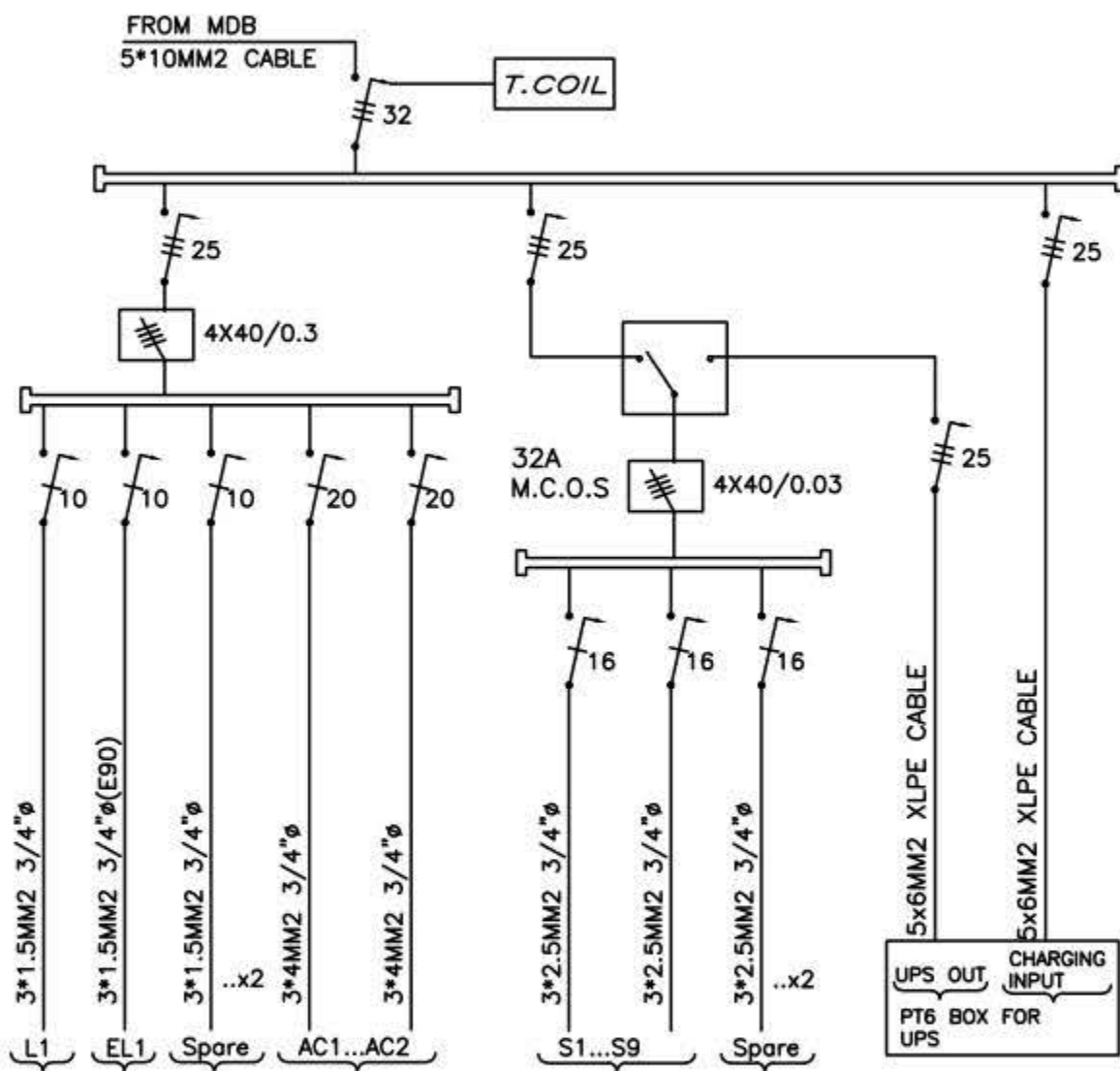
Electrical Engineering
 Designed by: F. L. B. 001/01/01/01/01
 Drawn by: F. L. B. 001/01/01/01/01
 Checked by: F. L. B. 001/01/01/01/01
 Approved by: F. L. B. 001/01/01/01/01
TAMMOUN DESIGN

FIRE ALARM LAYOUT

Scale:	1:100
City:	RAMALLAH
Sheet:	24/008

E 601

BOARD NAME: DBC



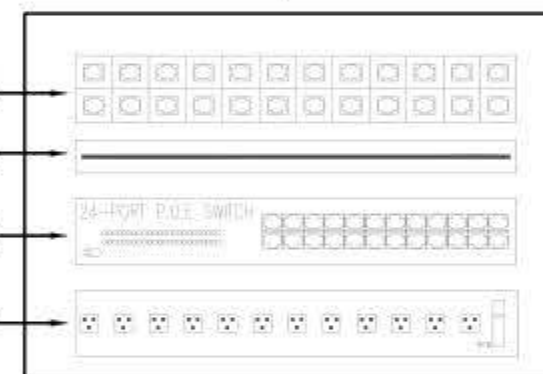
11 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering

Designed by: F. El-Dabbas

Drawn by: Sami

Checked by: F. El-Dabbas

Approved by: F. El-Dabbas

TAMMOUN DESIGN

POWER DIAGRAMS

Date: 01/11/2025

Scale: 1/100

City: RAMALLAH

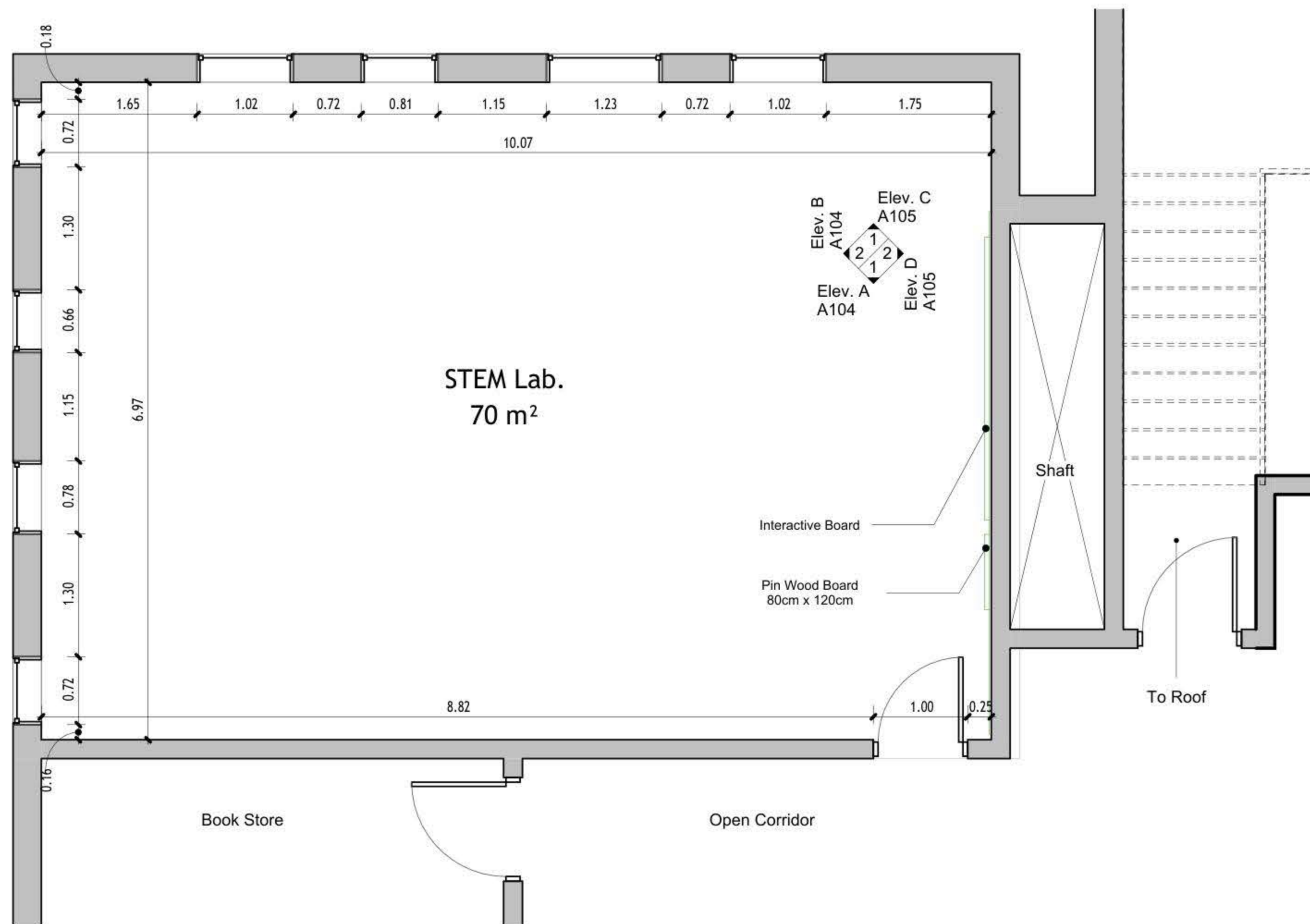
Sheet: 2/2008

E 701

Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

Musqat Secondary Boys School





1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

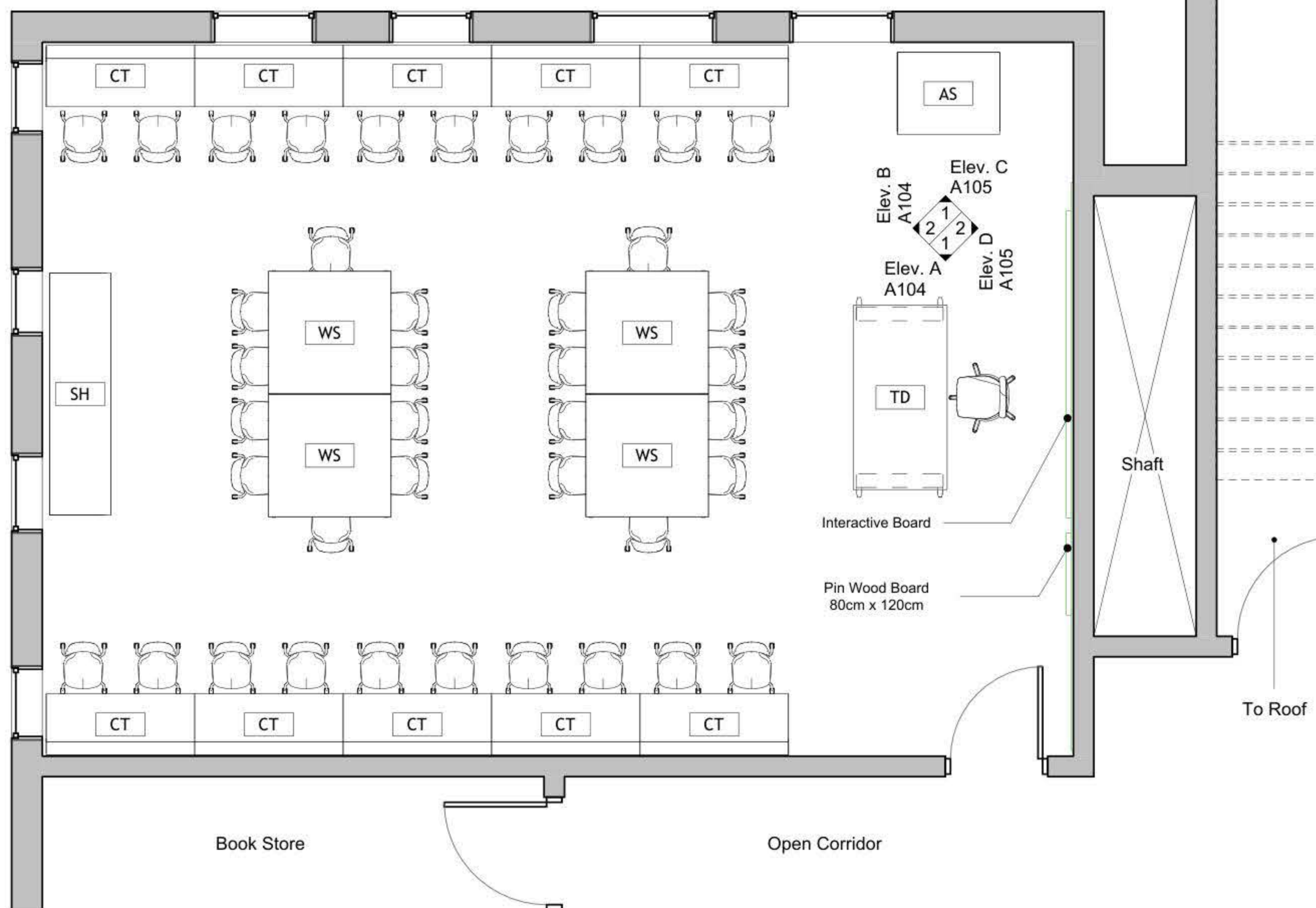
Musqat Secondary Boys School

DRAWING TITLE:

Dimensions Plan

JOB #	DWG #	BLOCK #
	A101	00
SCALE:	Sht. of	REV. #
1 : 50		

Furniture Schedule		
ID	Description	Count
	Student Chair	40
AS	Arts Storage (A1)	1
CT	Computer Table	10
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	4



1 Furniture Plan
1 : 50

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Contracting Authority:

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Ramallah, Palestine
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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

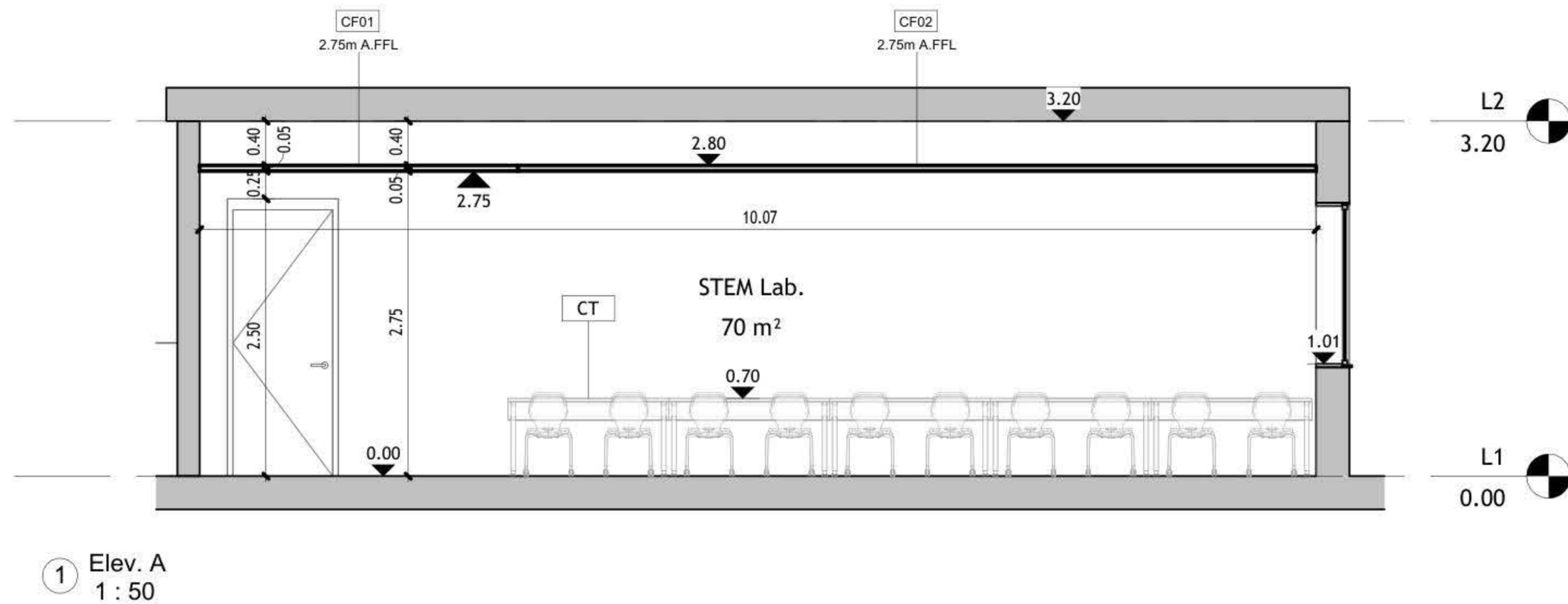
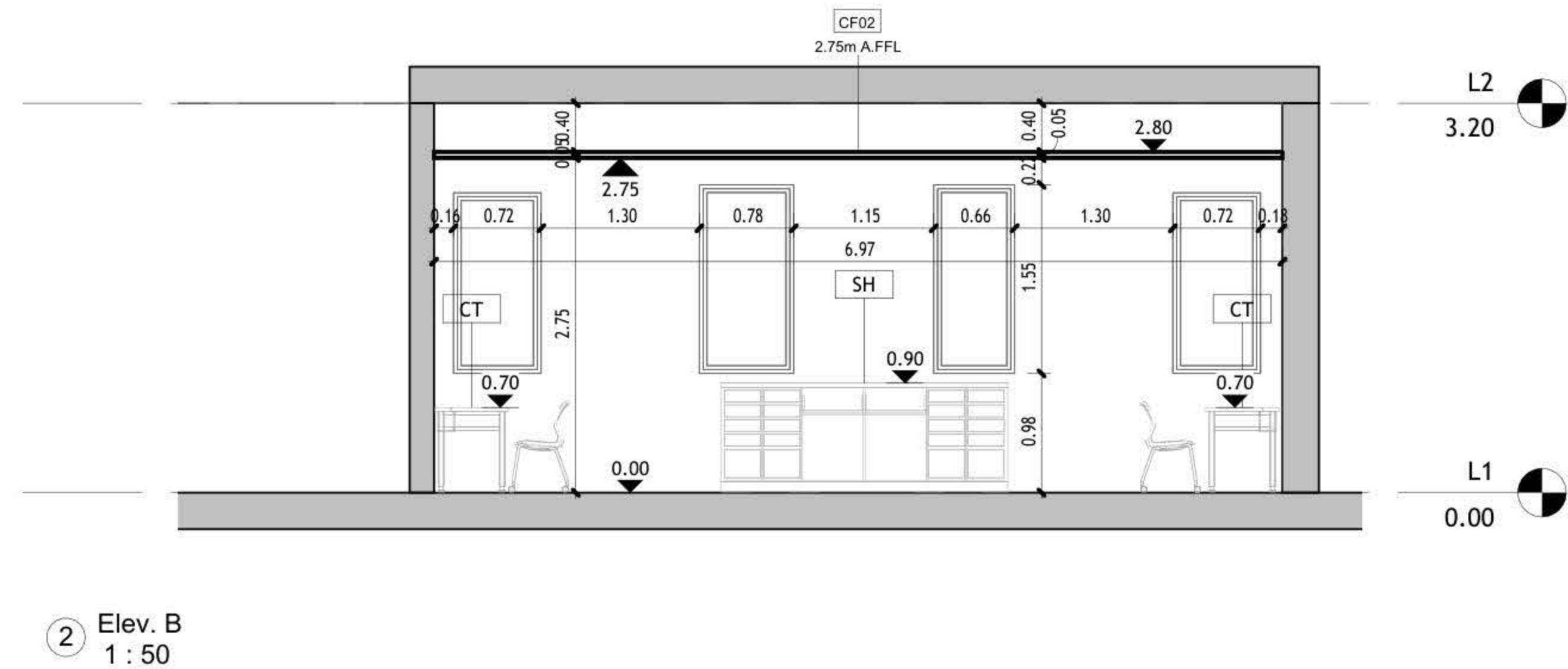
Eight STEM Labs in Middle and
Northern Governorates

Musqat Secondary Boys School

DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	Sht. of	REV. #
1 : 50		



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Contracting Authority:

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

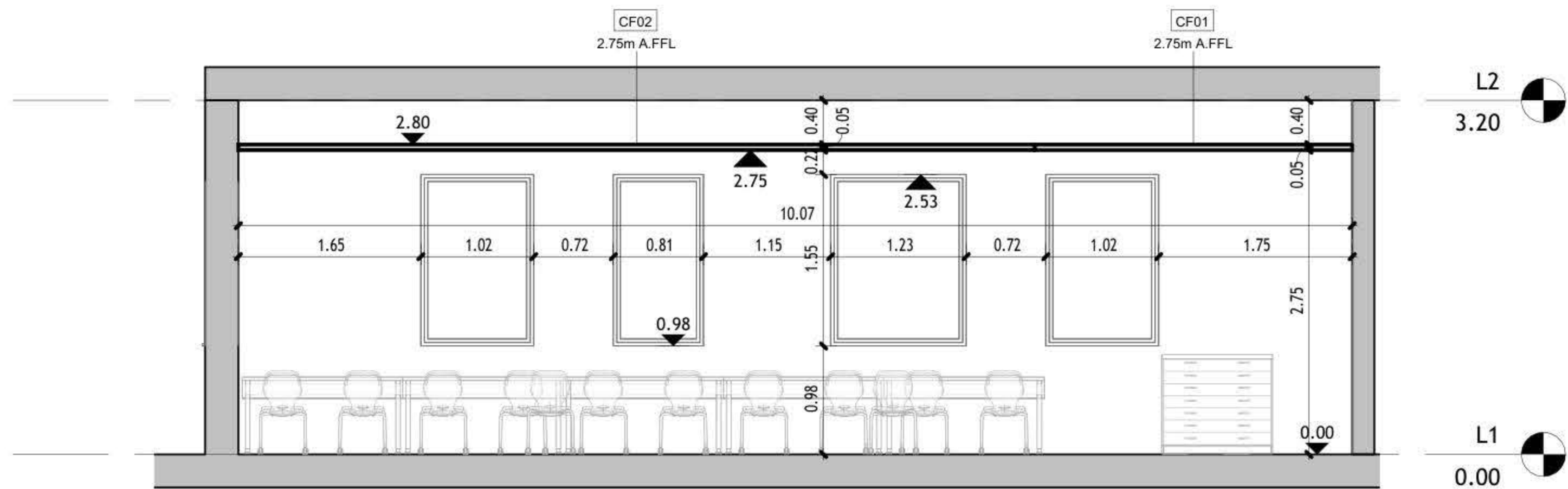
Eight STEM Labs in Middle and
Northern Governorates

Musqat Secondary Boys School

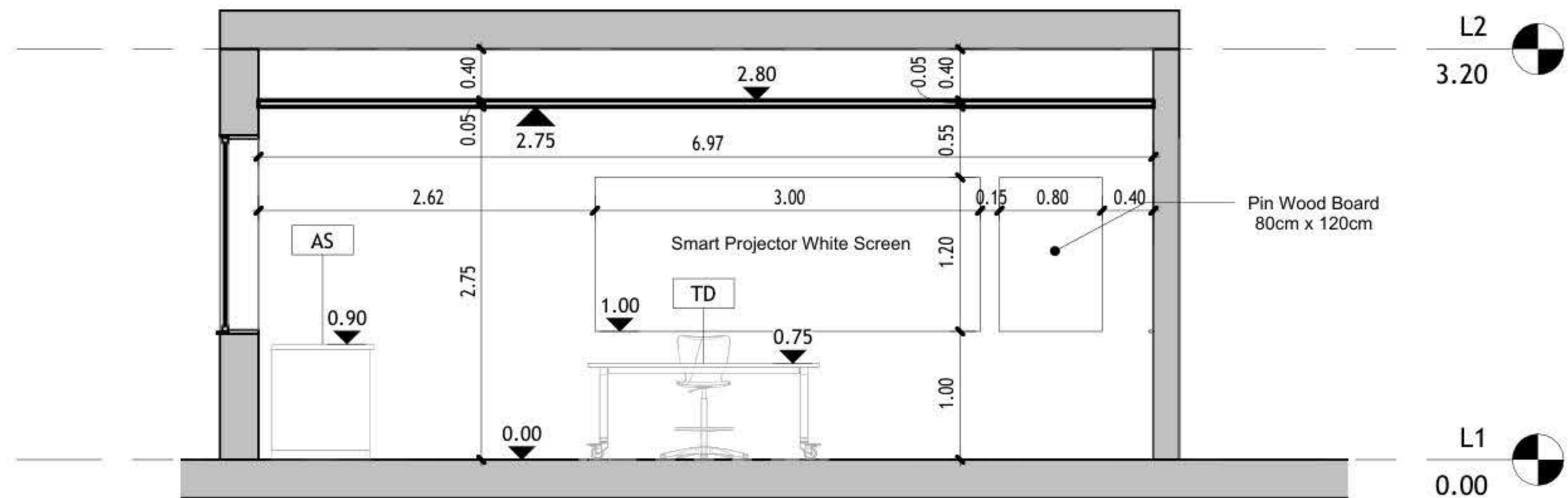
DRAWING TITLE:

Internal Elevations

JOB #	DWG #	BLOCK #
	A104	00
SCALE:	Sht. of	REV. #
1 : 50		



1 Elev. C
1 : 50



2 Elev. D
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel

CONSULTANT:

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Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

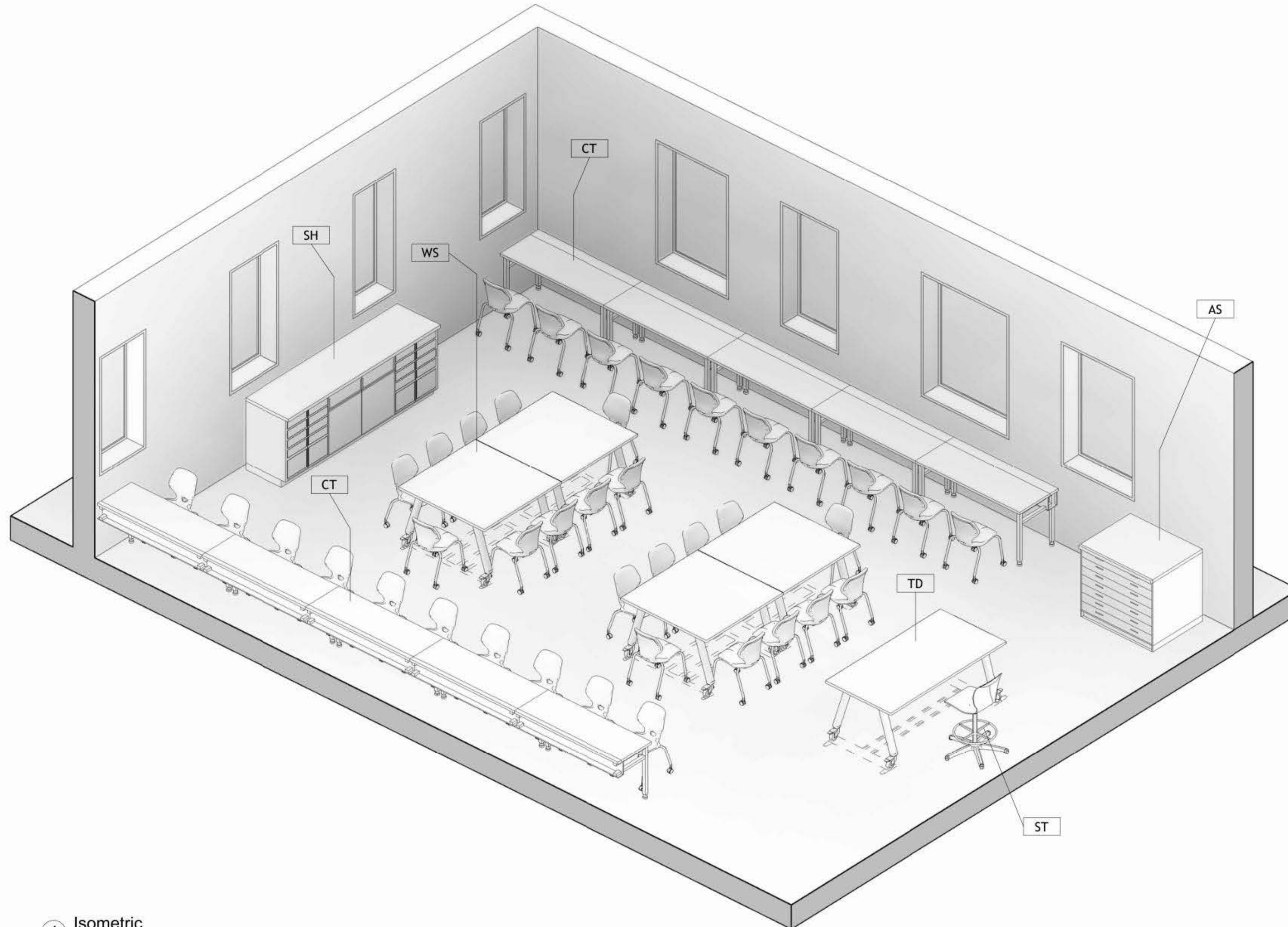
**Eight STEM Labs in Middle and
Northern Governorates**

Musqat Secondary Boys School

DRAWING TITLE:

Internal Elevations

JOB #	DWG #	BLOCK #
	A105	00
SCALE:	Sht. of	REV. #
1 : 50		



1 Isometric

DRAWING NOTES:

Contracting Authority:

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 09/09/25

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

Musqat Secondary Boys School

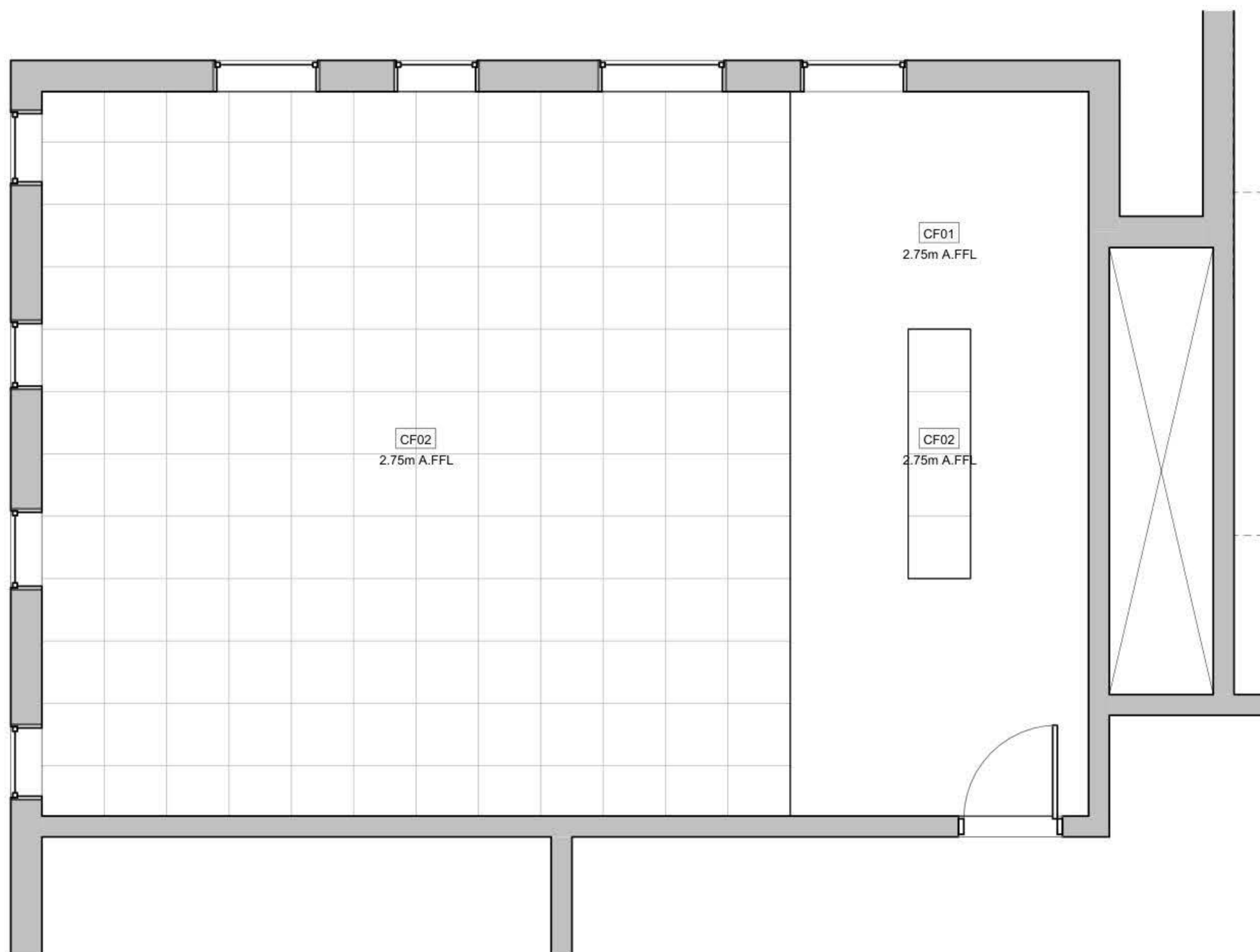
DRAWING TITLE:

Isometric

JOB #	DWG #	BLOCK #
	A106	00
SCALE:	Sht. of	REV. #

CF01	Gypsum Board	19 m ²
CF02	60 * 60 Mineral Fiber Tiles	52 m ²

Grand total: 3

70 m²

① Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

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Basis	Description	Ann. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE:	11/12/25
-----------------	----------

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

Musqat Secondary Boys School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG #	A103	BLOCK #	0
SCALE: 1 : 50	Sht. of		REV. #	

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOMA CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH, INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>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.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Orbit
 Ramallah
 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

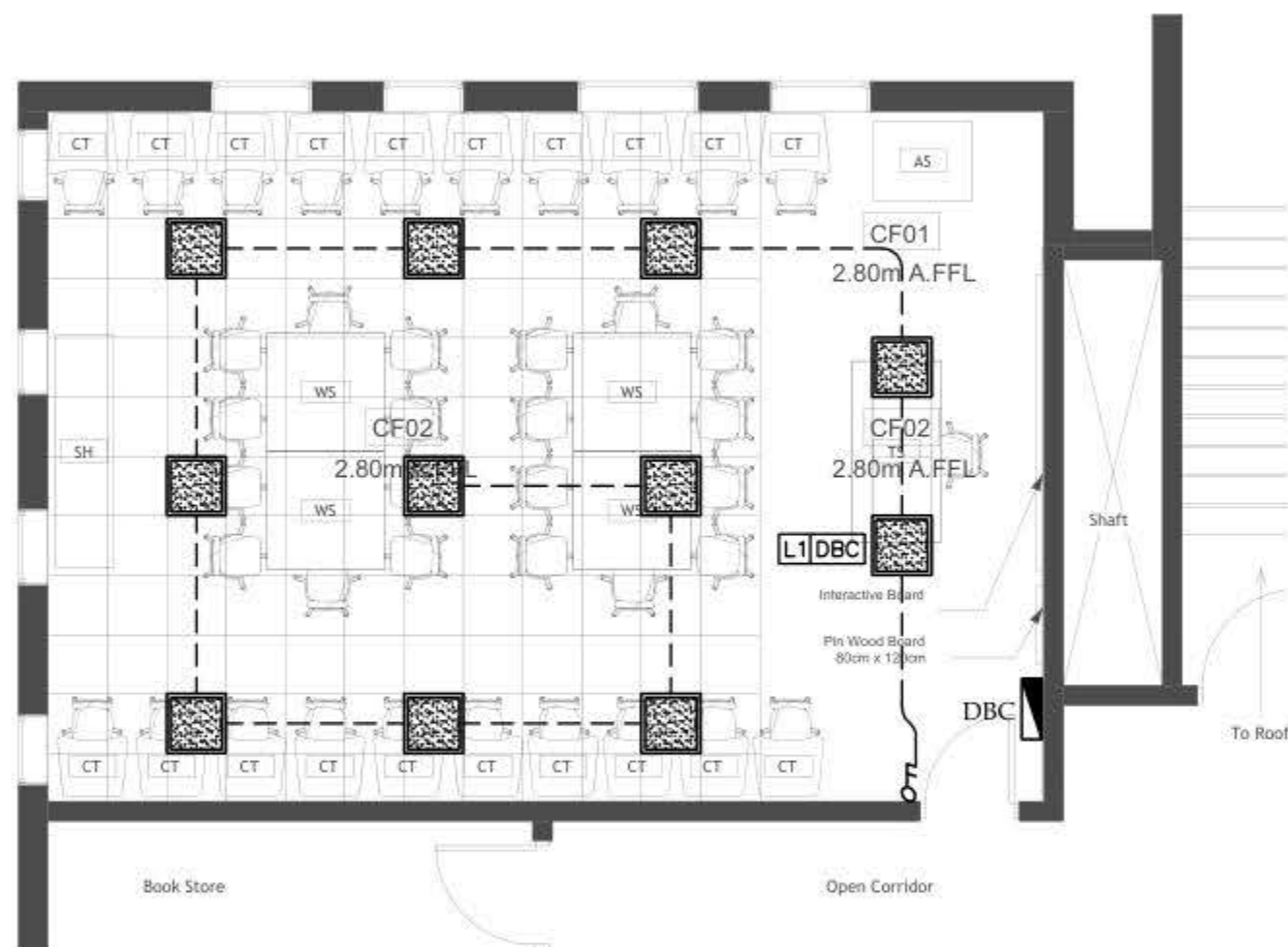
Electrical Engineering

Prepared by: E.E. GHANI ABD. ALI
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

AIZARIYA DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	



AIZARIYA LAB



Electrical Engineering

Designed by: P.C. B-SH1 MAT 007

Drawn by: _____
Checked by: E.E. Abel 444-444

Approved by: J.F. Hernandez, Sr.

AIZARIYA DESIGN

LIGHTING LAYOUT

Number of days	0.00
----------------	------

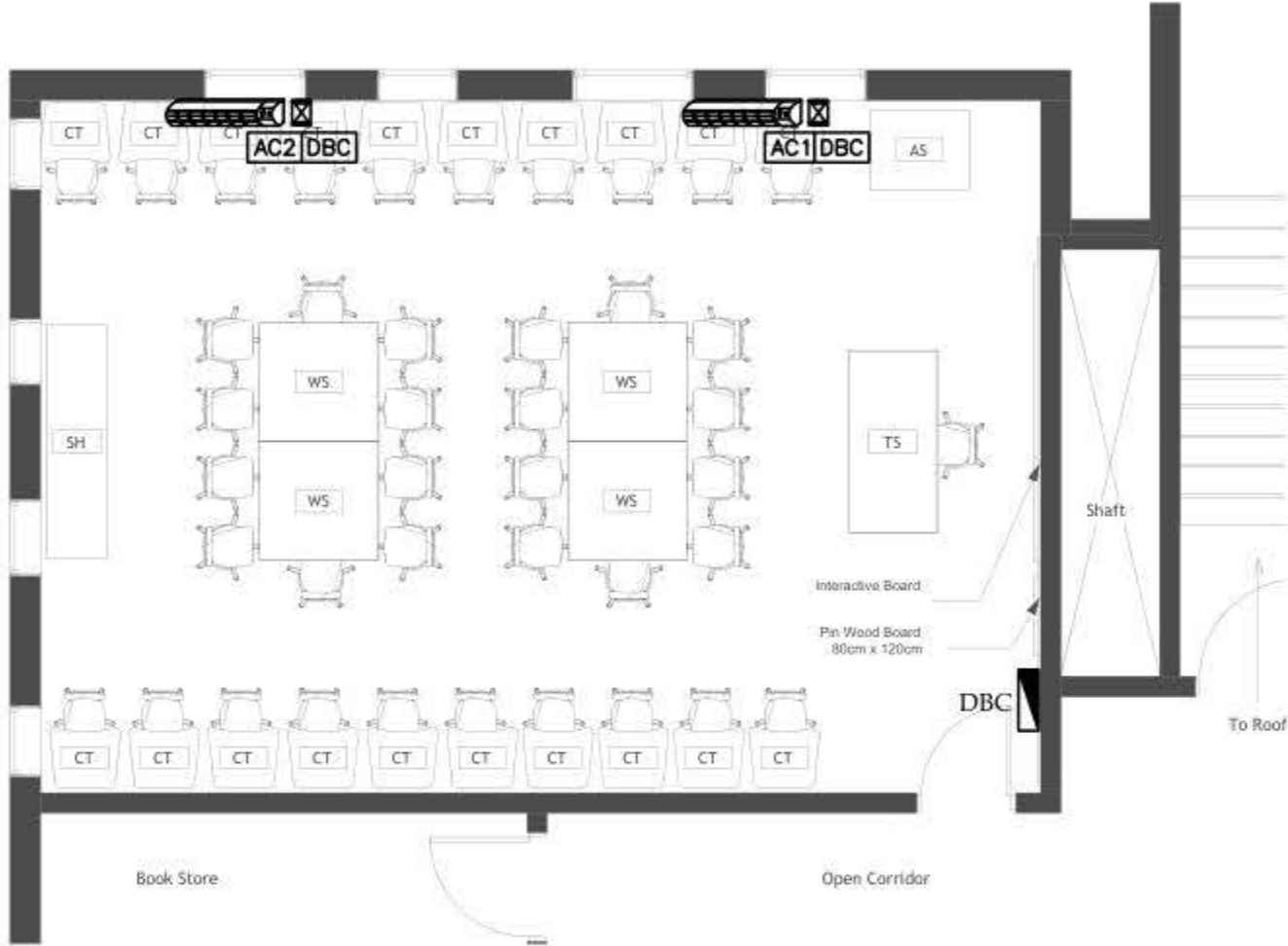
Date:	04/11/2025	E 10
Author:	1/100	

Ch:	BAMALAH
Set:	3406

E 101







AIZARIYA LAE



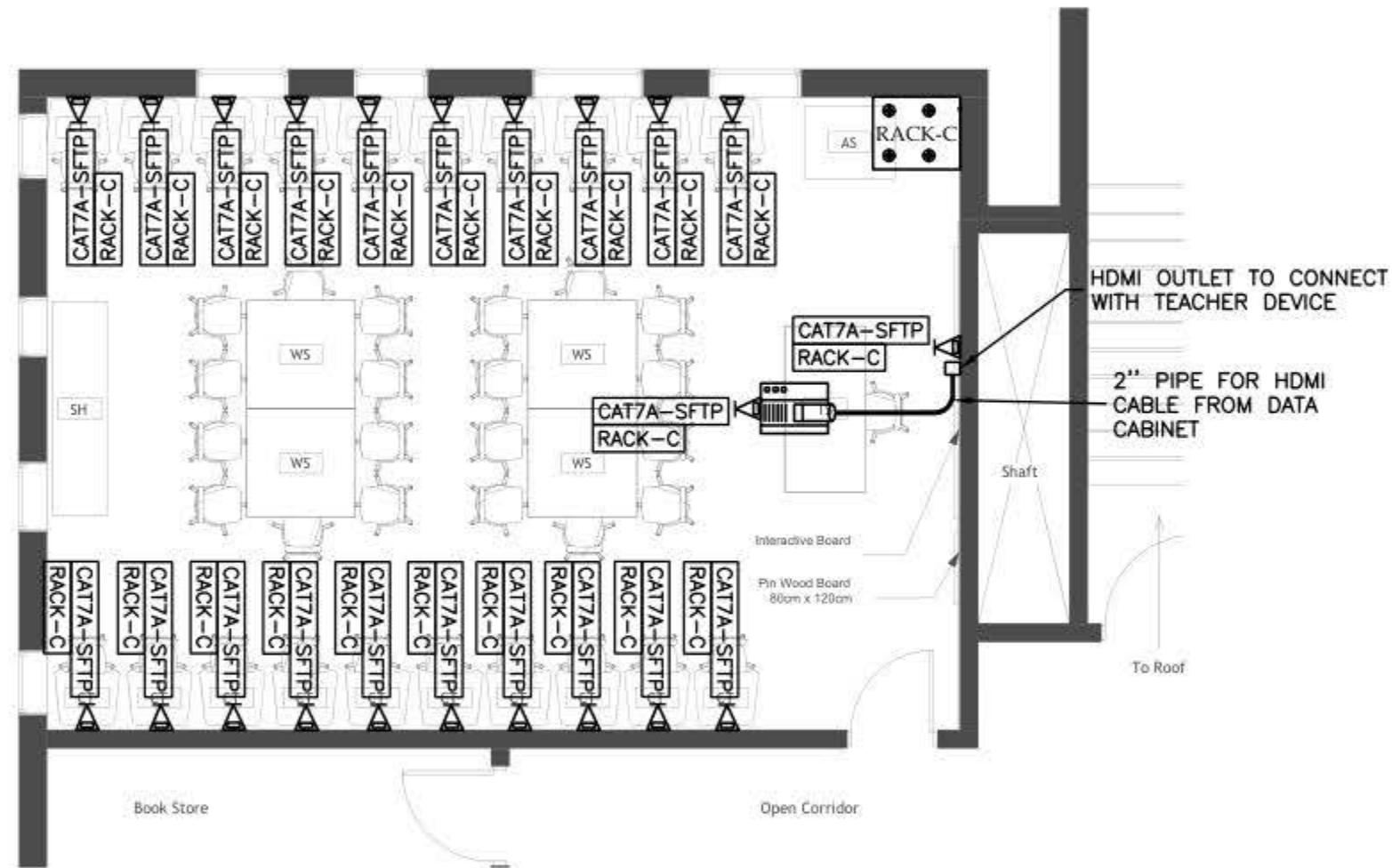
Electrical Engineering

Analyzed by: J.F. Hernandez-Suñé

AIZARIYA DESIGN

POWER FOR MECH

E 401



AIZARIYA LAB

NOTES

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering
 Designed by: F. El-Dakhil
 Drawn by: F. El-Dakhil
 Checked by: F. El-Dakhil
 Approved by: F. El-Dakhil
AIZARIYA DESIGN

LOW VOLTAGE LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/008

E 501



Orbit Consultant Engineers

Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

Drawn by	Sign
Checked by	E.E. Sheet No. Max

Approved by: J.E. Hernandez, Syst

AIZARIYA DESIGN

AIZARIYA DESIGN

FIRE ALARM LAYOUT

11/11

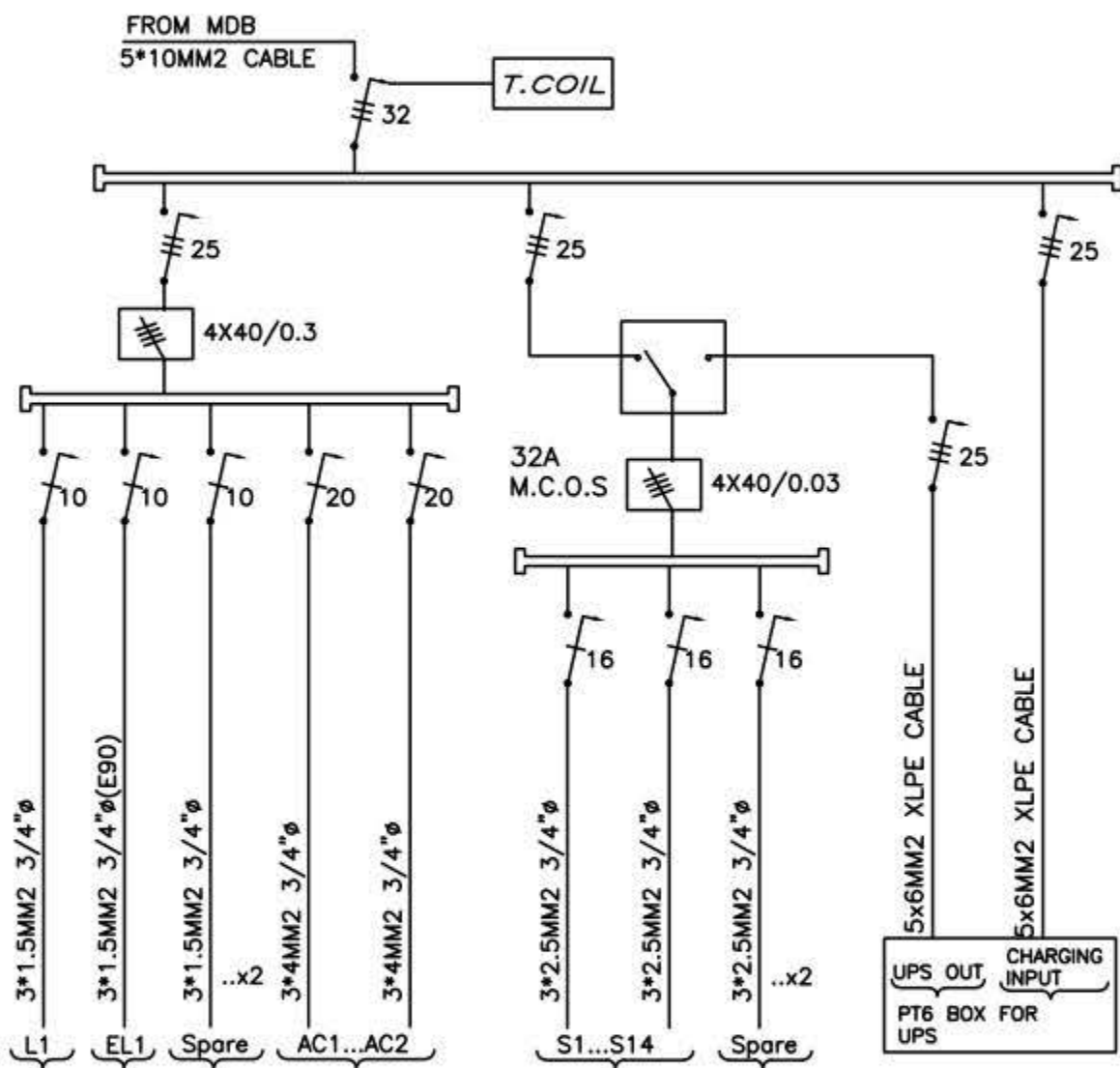
Date: OCT. 2005

Score	1/100	E
Ch	RAMALAN	

CH	100.0
Se	100.0

E 601

BOARD NAME: DBC



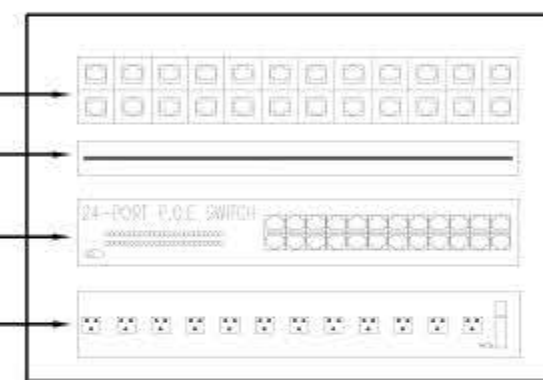
22 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



Electrical Engineering

Designed by: F.E. El-Dakhil

Drawn by: Sami

Checked by: F.E. El-Dakhil

Approved by: F.E. El-Dakhil

AIZARIYA DESIGN

POWER DIAGRAMS

Date: 01/11/2025

Scale: 1/100

City: RAMALLAH

Sheet: 2/2008

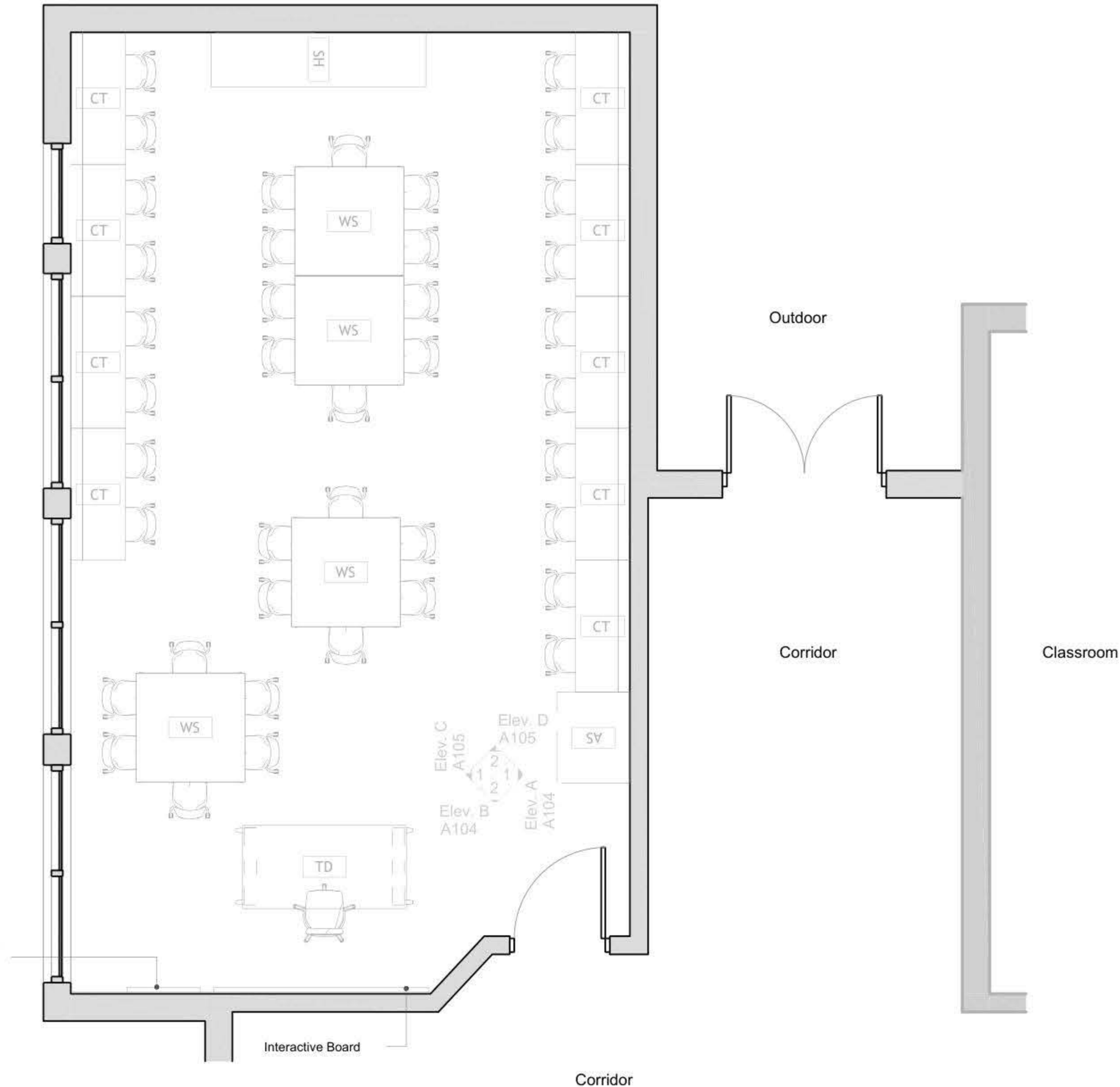
E 701

Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

Al-Nweaimeh Secondary Boys School



Furniture Schedule		
ID	Description	Count
	Student Chair	40
AS	Arts Storage (A1)	1
CT	Computer Table	9
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	2
WS	Work Station	4



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel
Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

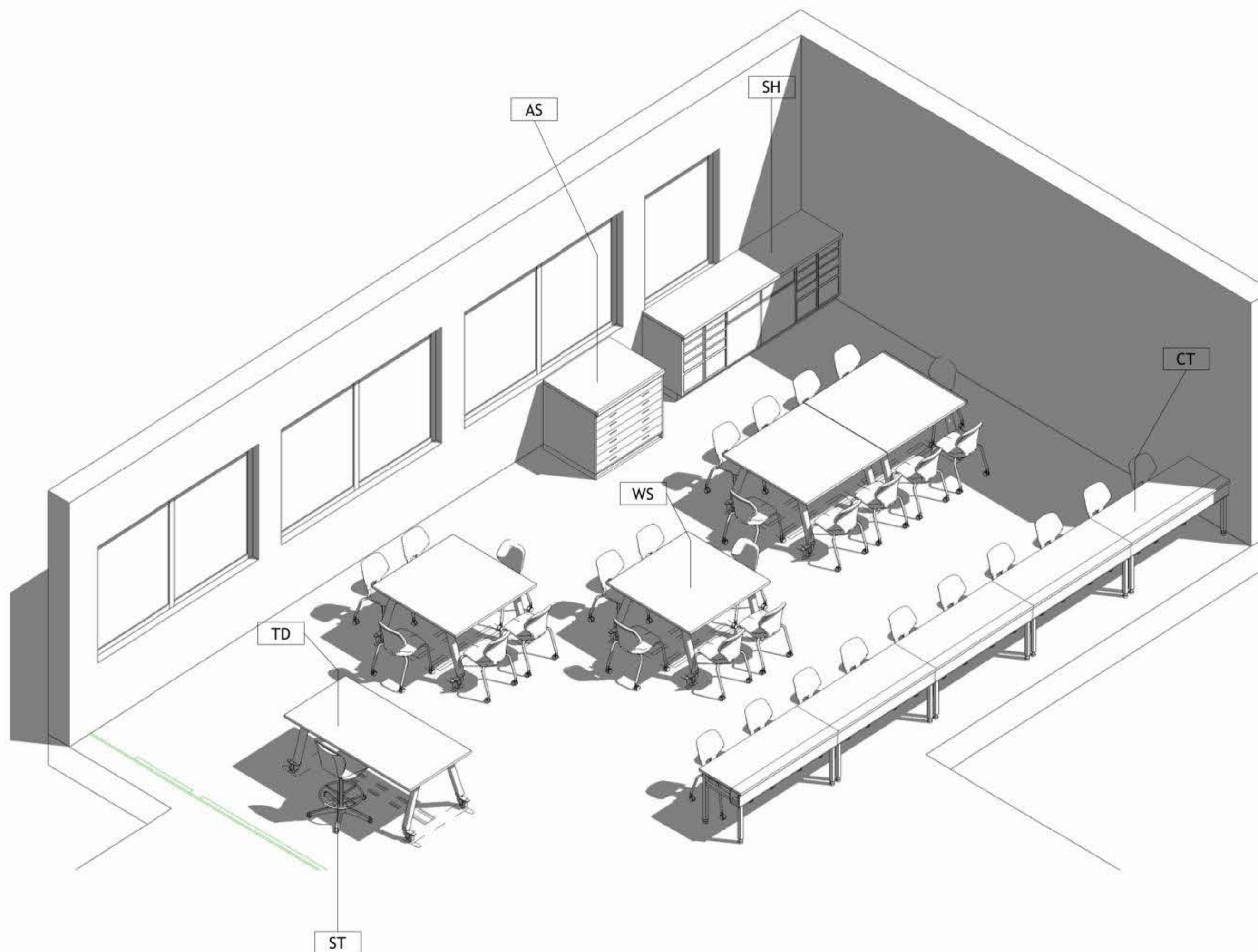
Eight STEM Labs in Middle and
Northern Governorates

Al-Nuwaimeh Secondary Boys School

DRAWING TITLE:

Furniture Plan

JOB #	DWG # A102	BLOCK # 00
SCALE: 1 : 50	SHEET # of	REV. #



1 Isometric

DRAWING NOTES:

Contracting Authority:

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

Al-Nuwaimeh Secondary Boys School

DRAWING TITLE:

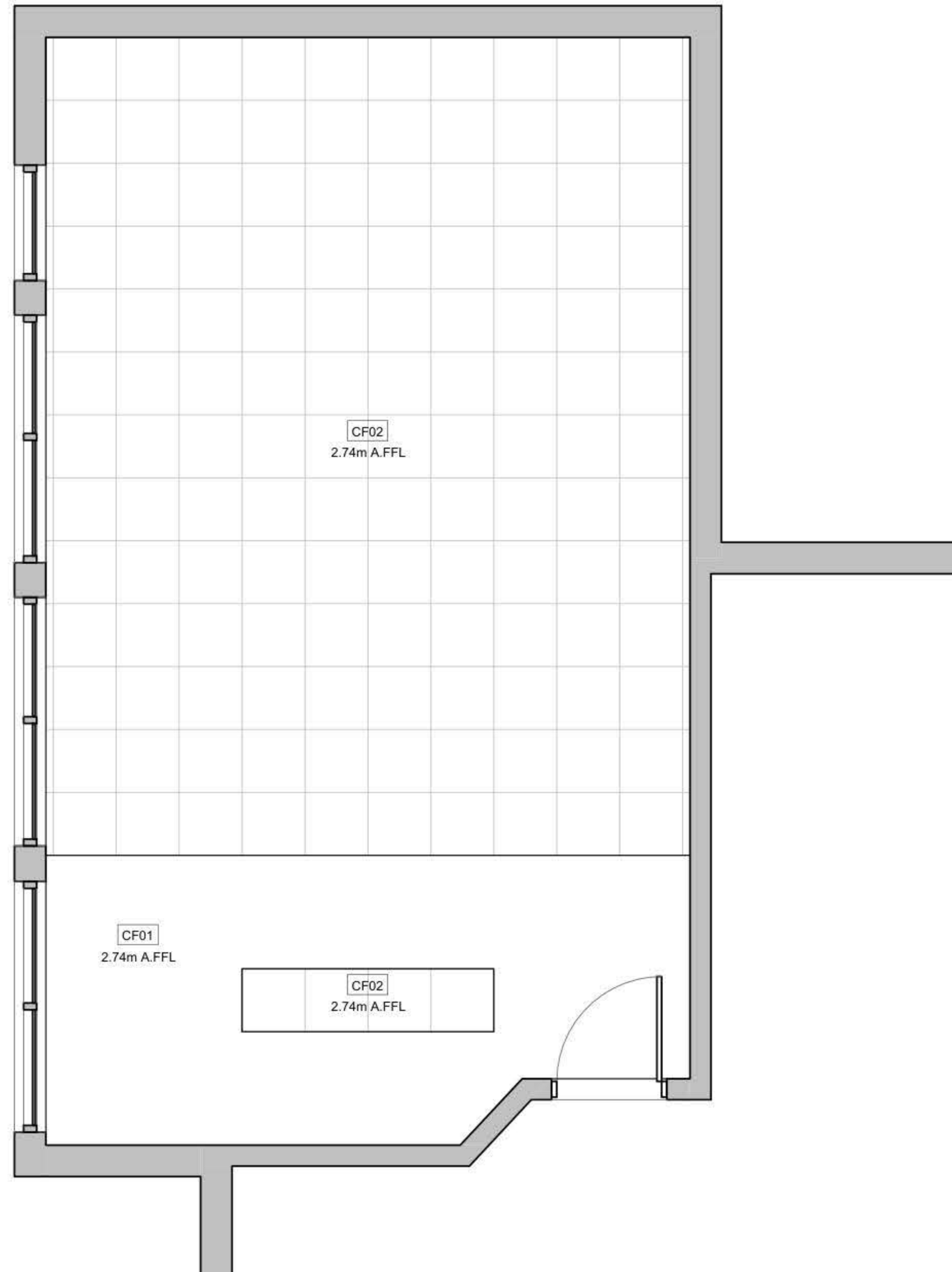
Isometric

JOB #	DWG #	BLOCK #
	A106	00
SCALE:	Sht. of	REV. #

CF01	Gypsum Board	14 m ²
CF02	60 * 60 Mineral Fiber Tiles	49 m ²

Grand total: 3

64 m²



① Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

GLOB CONSULTANTS

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Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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[illegible]

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 11/12/25

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

Al-Nuwaimeh Secondary Boys School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG #	A103	BLOCK #	00
SCALE: 1 : 50	Sht. of		REV. #	

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH,
			INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>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.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

No.	DATE	DESCRIPTION
1		
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 Tel.Fax02-2967876
 E.Mail :info@orbit.ps
 Website :www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering

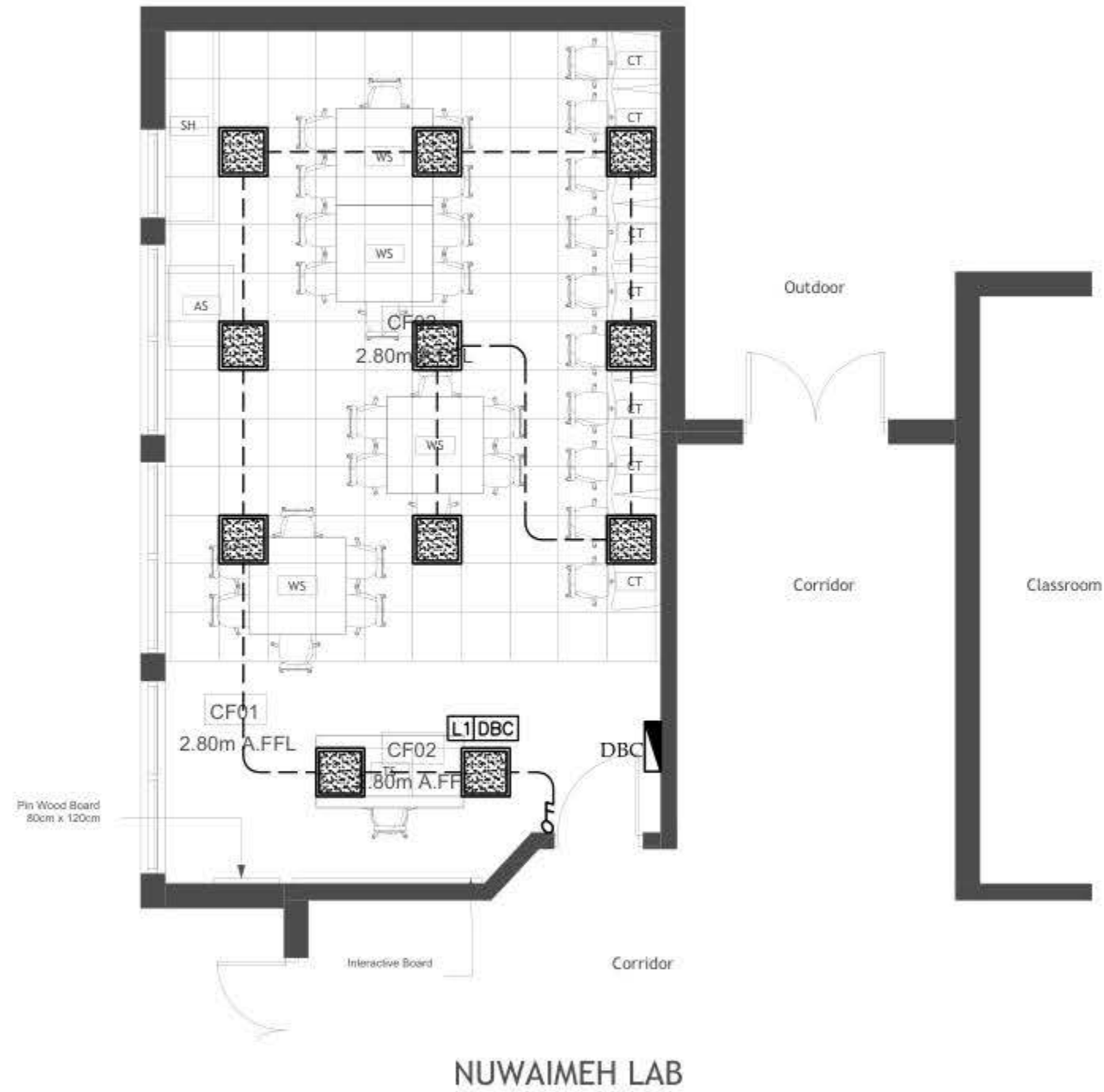
Prepared by: E.E. GHANI ABD. ALI
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

NUAIMEH DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	

NOTES



NO	DATE	DESCRIPTION
1		
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6		



Electrical Engineering

Designed by: F. L. D. 001 001 001
Drawn by: 001
Checked by: F. L. D. 001 001 001
Approved by: F. L. D. 001 001 001

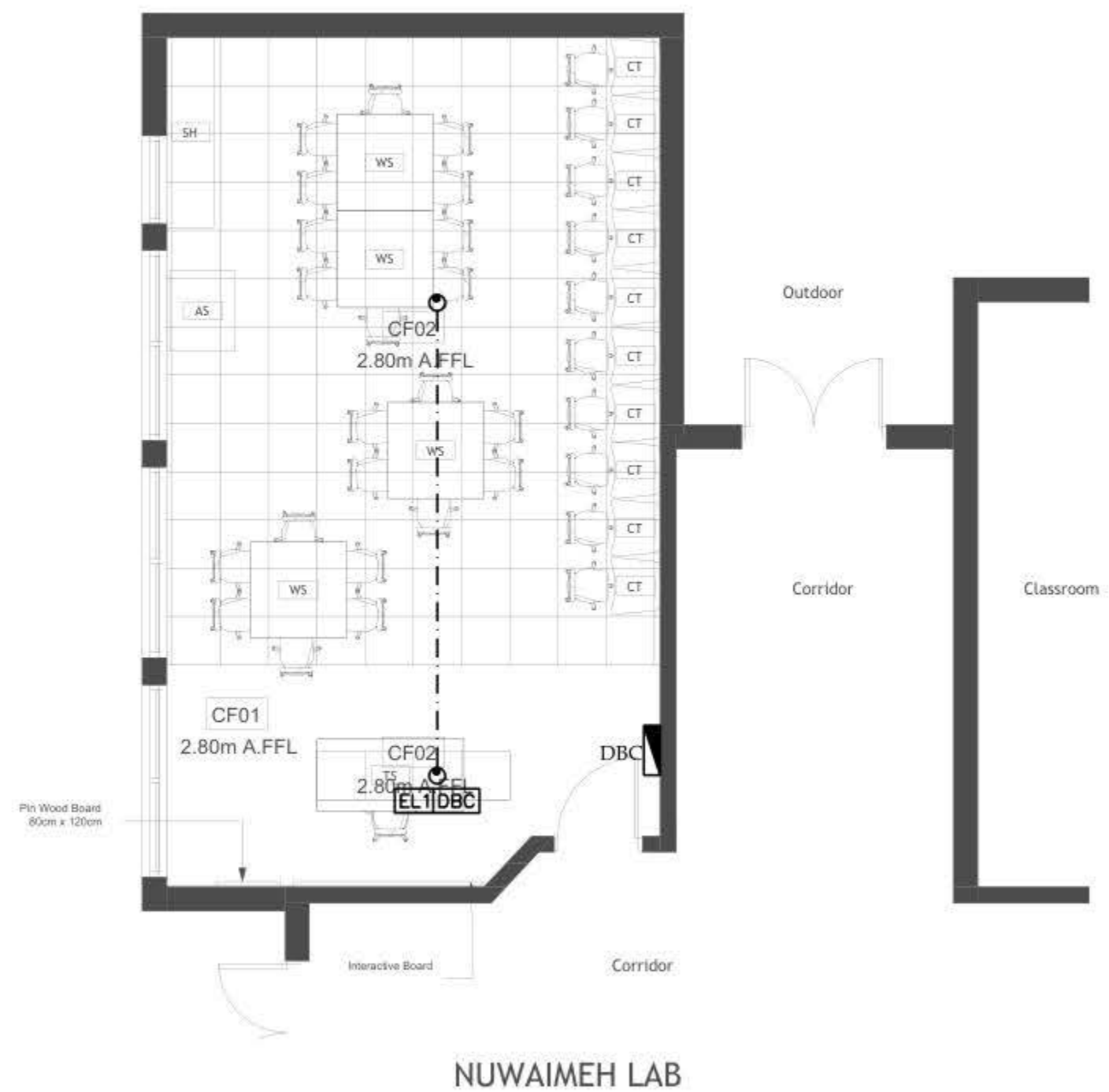
Signature

NUWAIMEH DESIGN

LIGHTING LAYOUT

Date:	001/001/001
Scale:	1/100
City:	RAMALLAH
Sheet:	001/001

E 101



NUWAIMEH LAB



Electrical Engineering

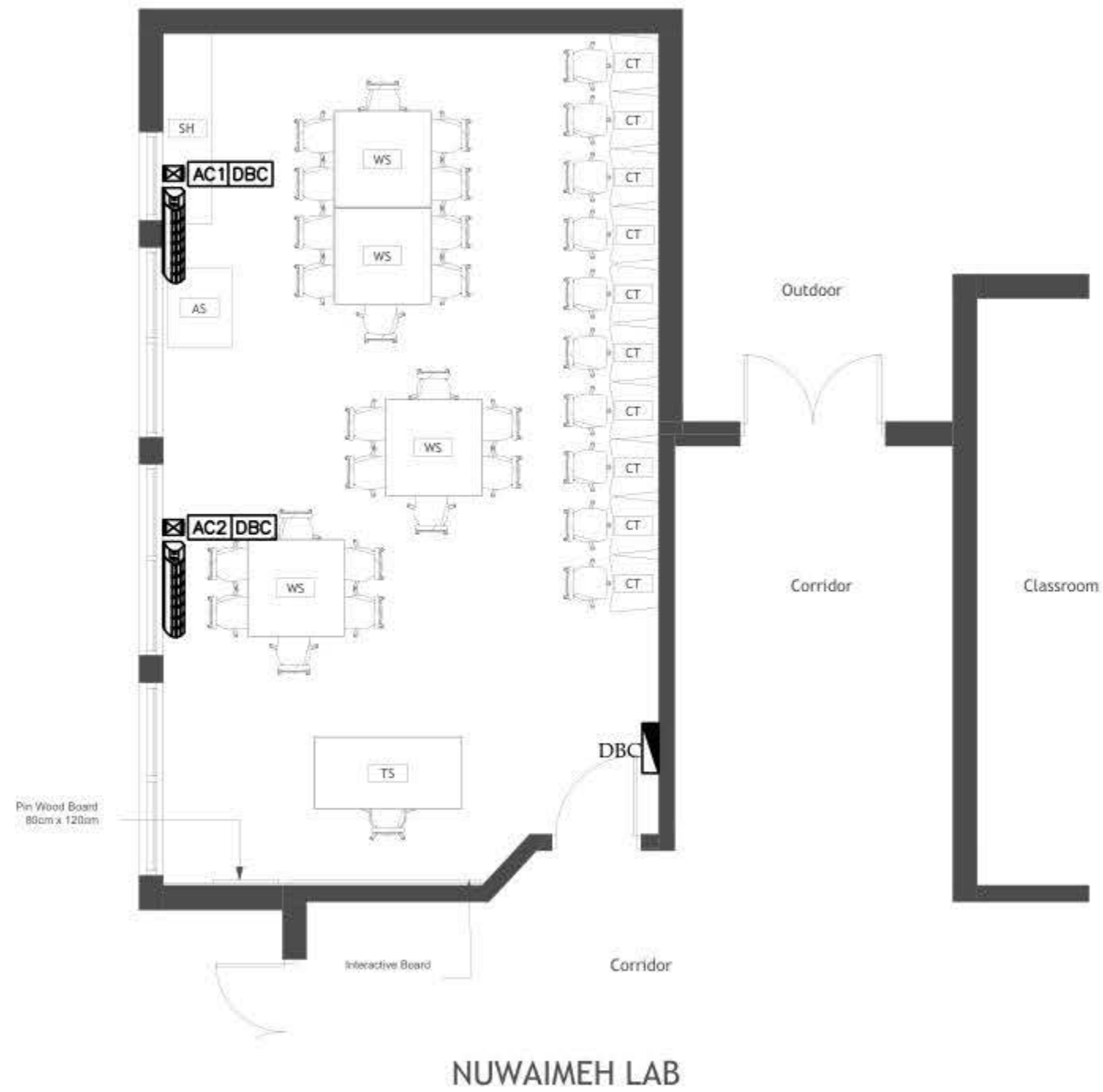
Designed by: P. B. J. M. M. A. M. A. M.
Drawn by: S. G. H. L. M. A. M.
Checked by: E. C. H. M. A. M.
Assigned by: J. F. M. A. M.

NUAIMEH DESIGN

EMERGENCY LIGHTING LAYOUT

E 201

NOTES



NUWAIMEH LAB

NO	DATE	DESCRIPTION
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6		

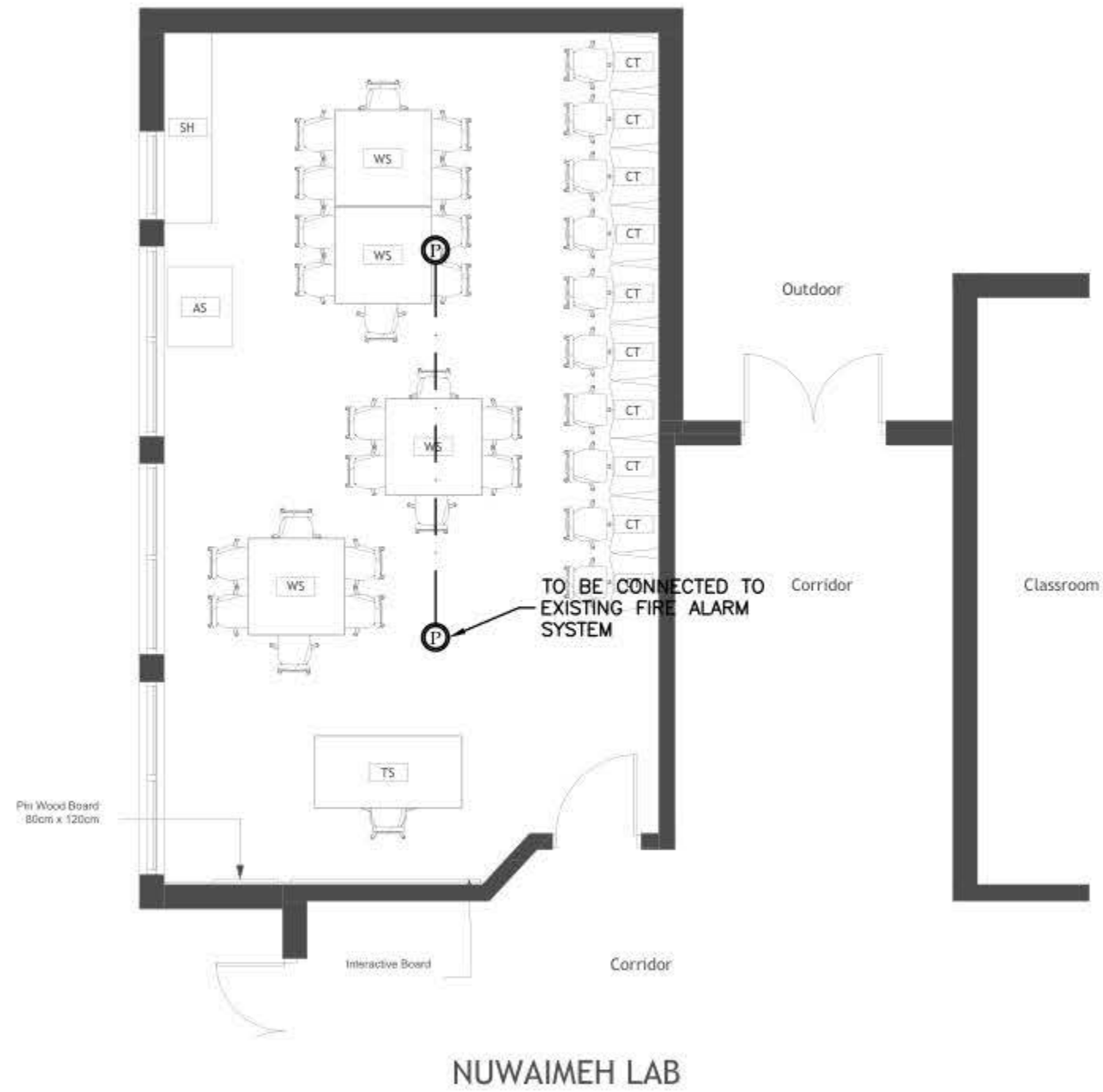
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 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering
 Designed by: F. E. B. 004 MB 100
 Drawn by: 100
 Checked by: F. E. B. 004 MB 100
 Approved by: F. E. B. 004 MB 100
NUWAIMEH DESIGN

POWER FOR MECH	
Date: 001/2005	E 401
Scale: 1/100	
City: RAMALLAH	
Sheet: 04/08	

NUWAIMEH LAB

NOTES



NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

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E-Mail: info@orbit.ps
Website: www.orbit.ps
Orbit Consultant Engineers

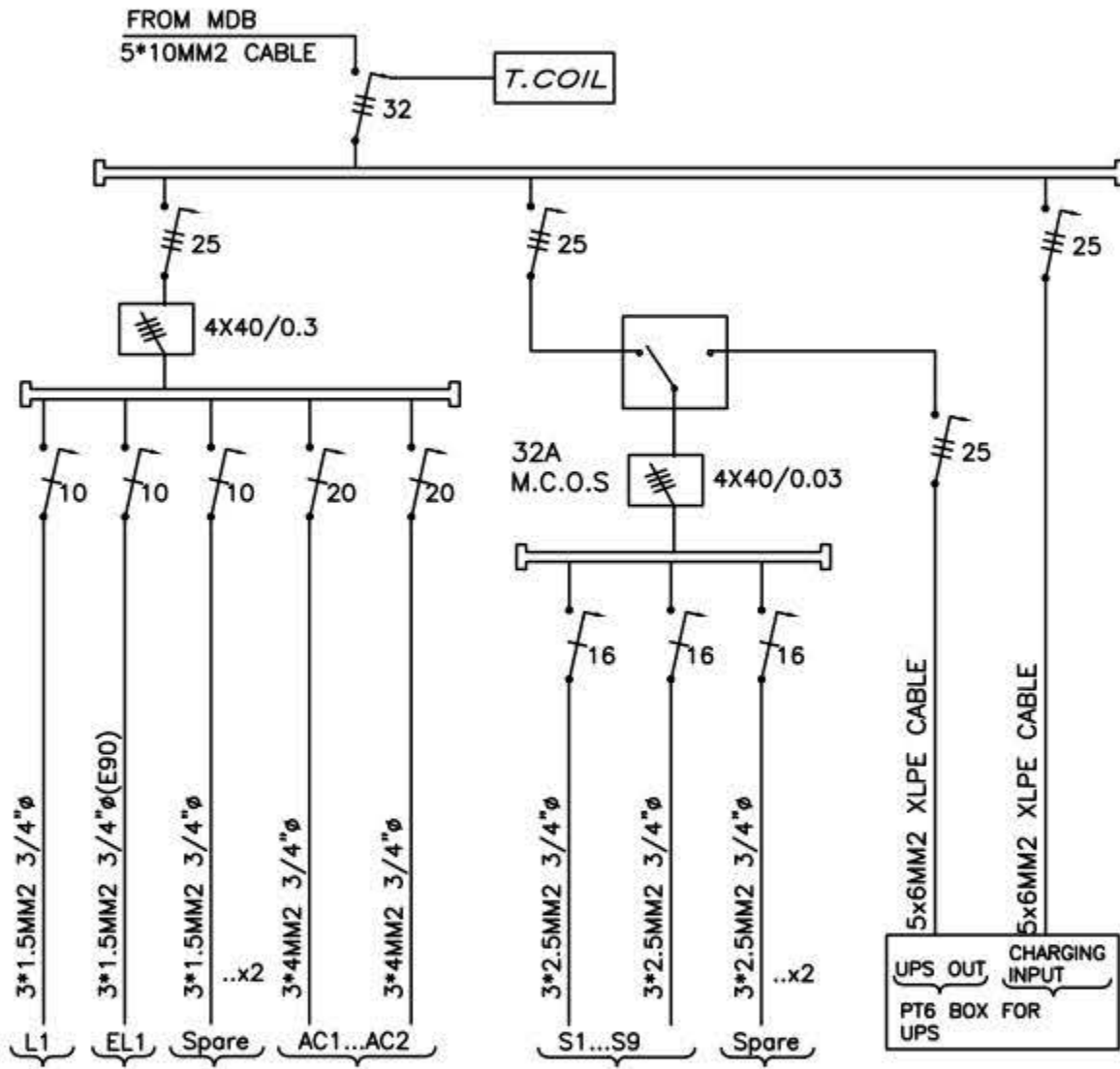
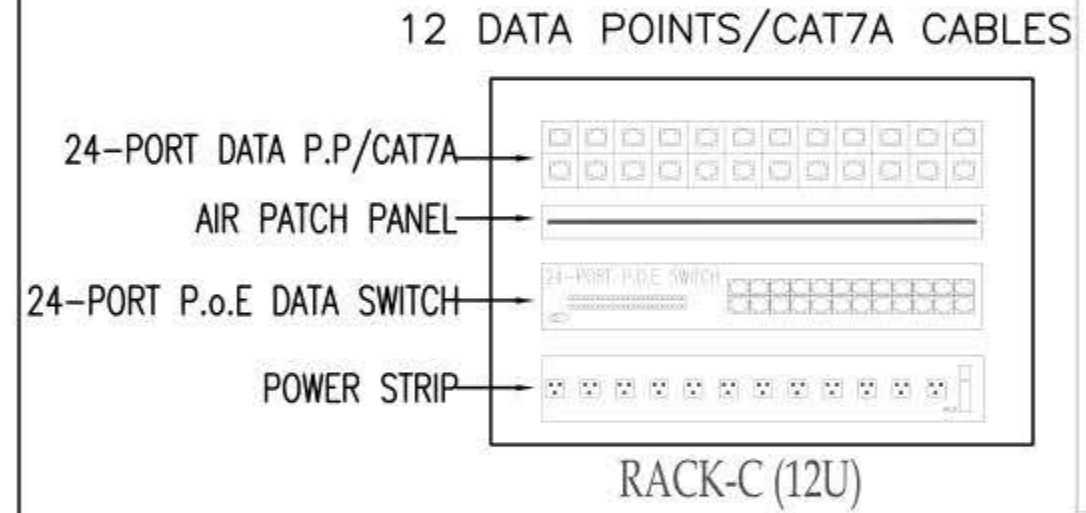
Electrical Engineering
Designed by: F. E. B. M. M. M. M. M.
Drawn by: F. E. B. M. M. M. M. M.
Checked by: F. E. B. M. M. M. M. M.
Approved by: F. E. B. M. M. M. M. M.
NUWAIMEH DESIGN

FIRE ALARM LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/008

E 601

BOARD NAME: DBC



NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering
 Designed by: F. El-Badry
 Drawn by: F. El-Badry
 Checked by: F. El-Badry
 Approved by: F. El-Badry
 NUA/IMEH DESIGN

POWER DIAGRAMS

Date: 01/10/2025
 Scale: 1/100
 City: RAMALLAH
 Sheet: 2/008

E 701

Design and supervision consultancy for rehabilitation and/or creation of
STEM Labs in schools in the West Bank

Al-Auja Secondary Girls School





DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and Northern Governorates

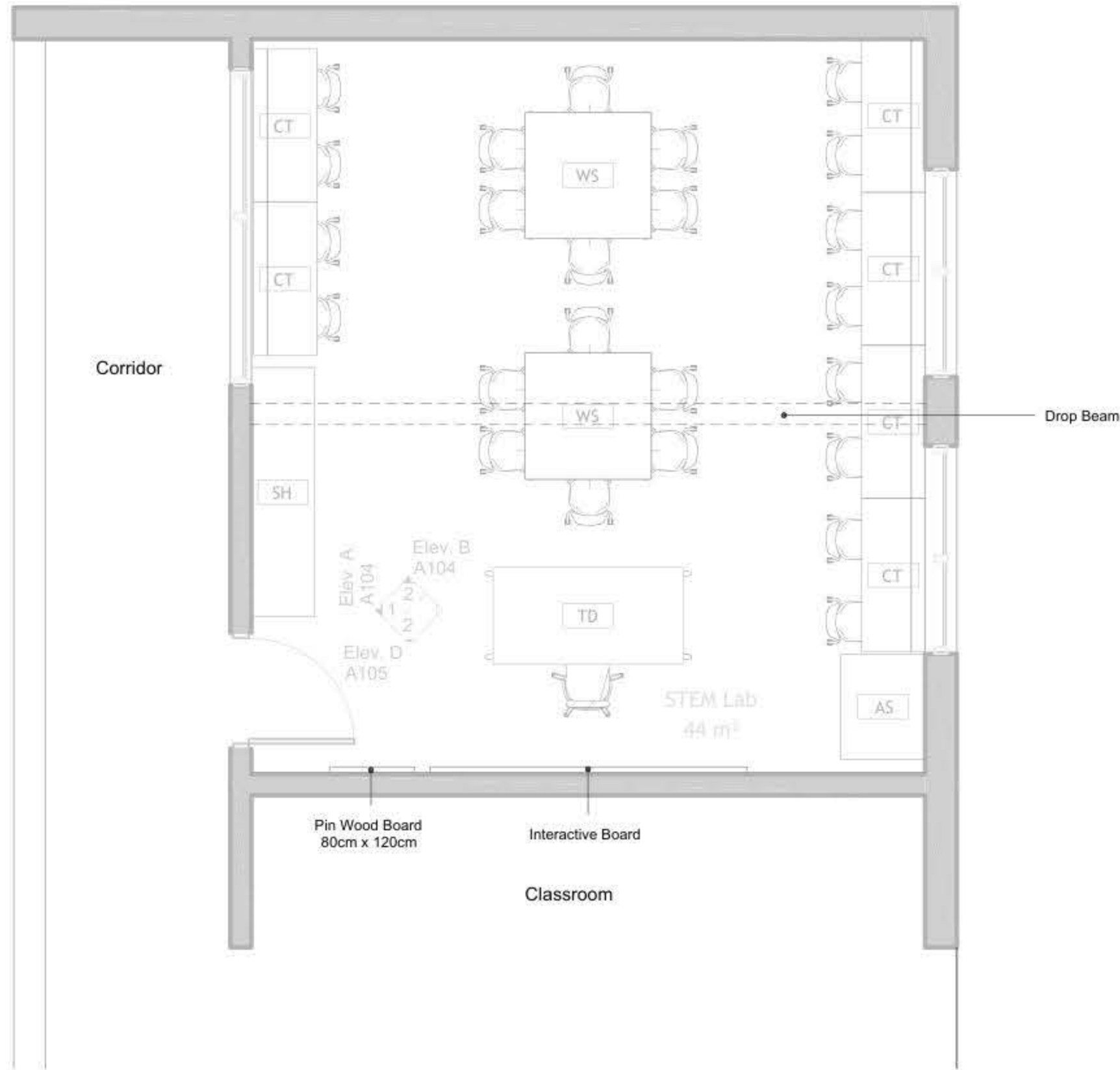
Al-Auja Secondary Girls School

DRAWING TITLE:

Dimensions Plan

JOB #	DWG #	A102	BLOCK #	00
SCALE: 1 : 50	Sht.	of	REV. #	

Furniture Schedule		
ID	Description	Count
	Student Chair	24
AS	Arts Storage (A1)	1
CT	Computer Table	6
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	2



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 10/12/25

PROJECT:

Project Status

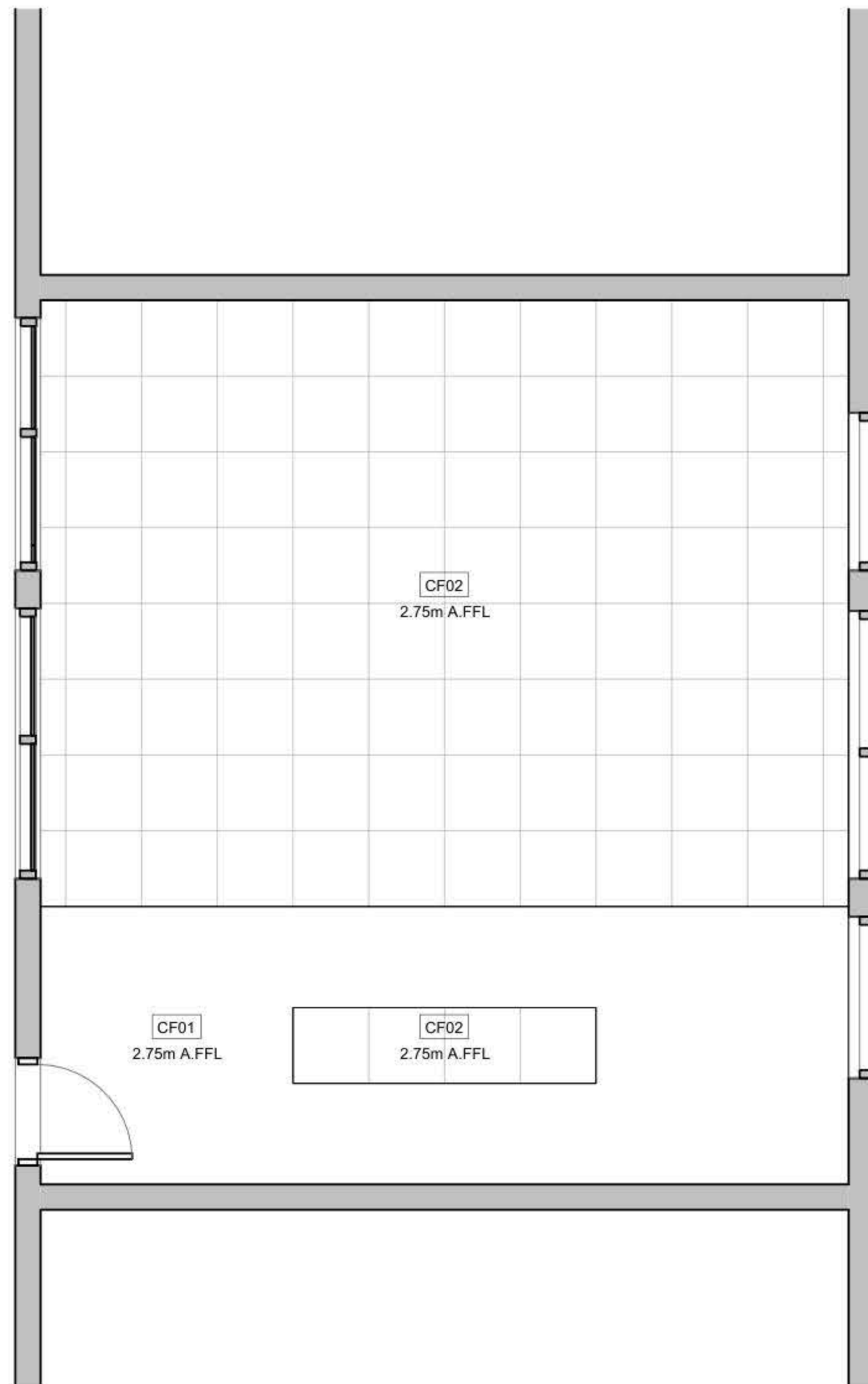
DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	SHEET	REV.
1 : 50	of	#

CF01	Gypsum Board	13 m ²
CF02	60 * 60 Mineral Fiber Tiles	32 m ²

Grand total: 3	45 m ²
----------------	-------------------



① Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

GLOB CONSULTANTS

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Ramallah, Palestine
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DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 11/12/25

PROJECT:

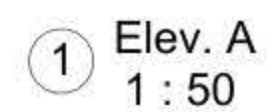
Eight STEM Labs in Middle and Northern Governorates

Al-Auja Secondary Girls School

DRAWING TITLE:

Reflected Ceiling Plan

JOB #	DWG #	A104	BLOCK #	00
SCALE: 1 : 50	Sht. of		REV. #	



JOB #	DWG # A105	BLOCK # 00
SCALE: 1 : 50	Sht. of	REV. #

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH, INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>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.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES

NO.	DATE	DESCRIPTION
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 Website :www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering

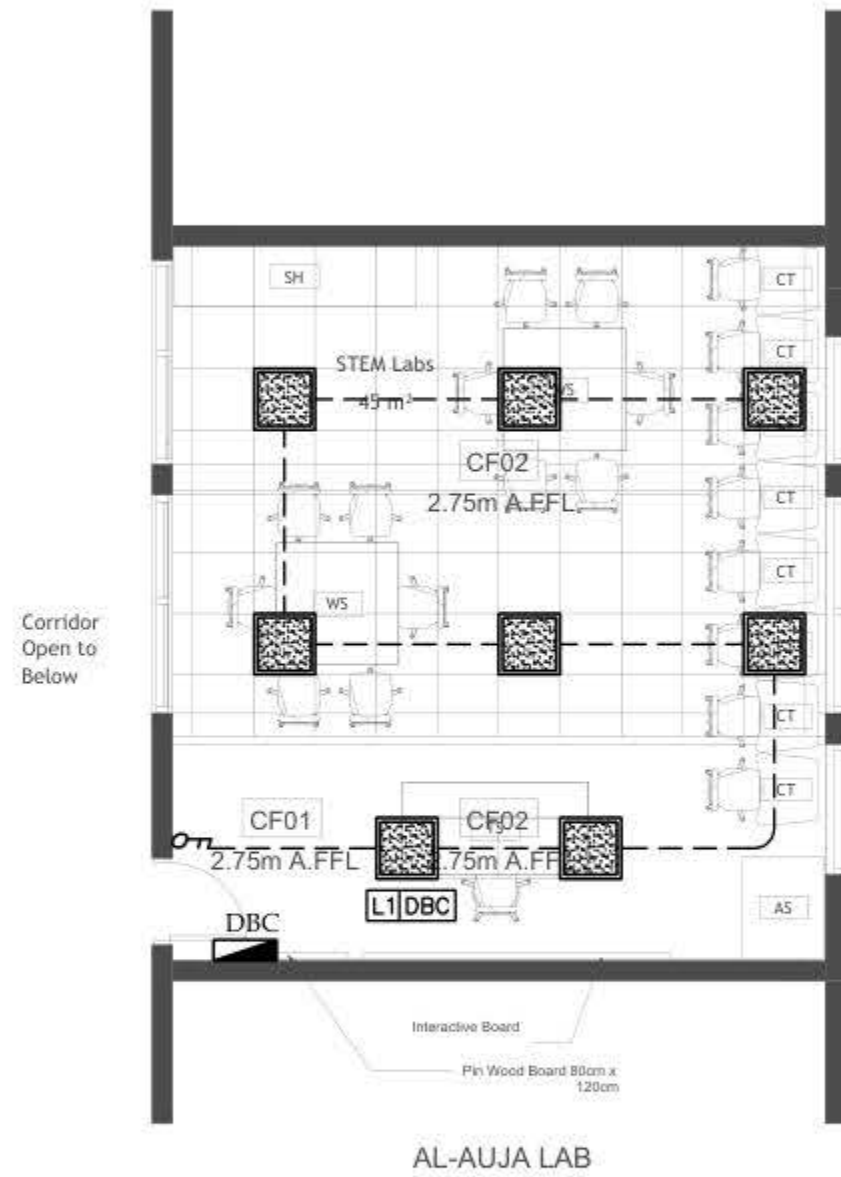
Prepared by: E.E. GHANI ABD. ALWAJID
 Drawn by: from
 Checked by: E.E. Aboo Abu Ali
 Approved by: E.E. Ramallah

AL-AUJA DESIGN

TITLE AND LEGEND

Date: OCT 2025	E 000
Scale: 1/100	
City: RAMALLAH	
Ref: GLOBE	

NOTES



AL-AUJA LAB

NO	DATE	DESCRIPTION
1		
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 E-Mail: info@orbit.ps
 Website: www.orbit.ps
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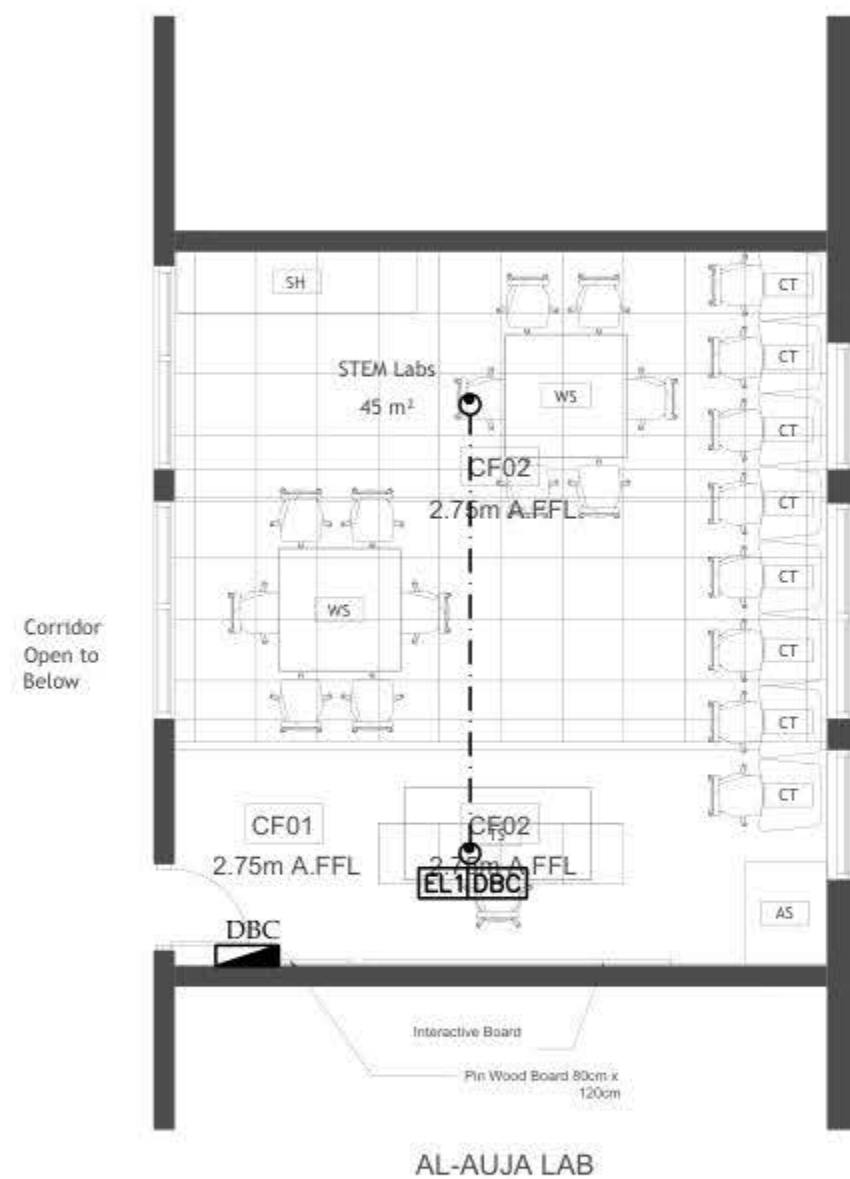
Electrical Engineering
 Designed by: F. L. D. 001/01/01/01
 Drawn by: F. L. D. 001/01/01/01
 Checked by: F. L. D. 001/01/01/01
 Approved by: F. L. D. 001/01/01/01

AL-AUJA DESIGN

LIGHTING LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/008

E 101



Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

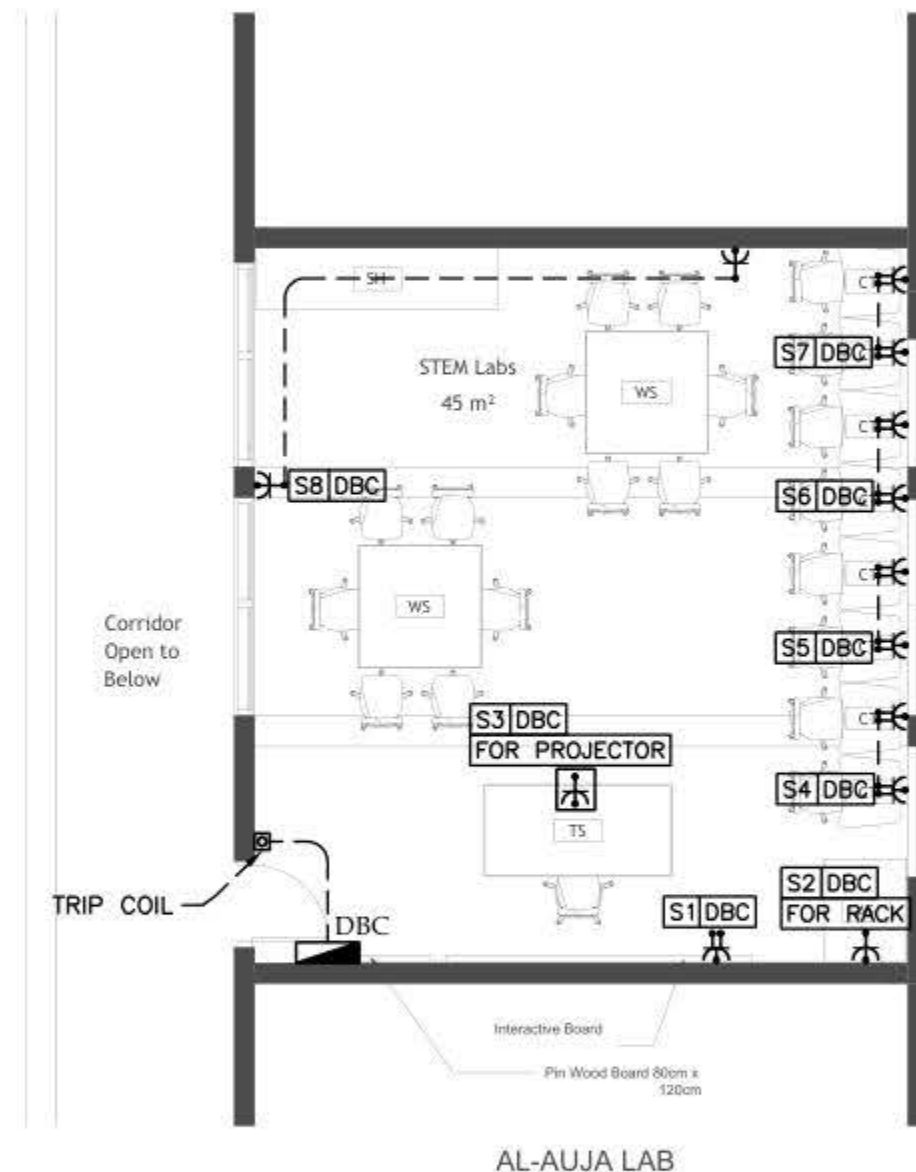
Drawn by	Sign
Checked by	E.E. Sheet No. Max

Approved by: J.E. Hernandez, Supt.

AL-AUJA DESIGN

EMERGENCY LIGHTING LAYOUT

E 201



NOTES

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering

Designed by : F. E. El-Masry

Drawn by : Sameh

Checked by : F. E. El-Masry

Approved by : F. E. El-Masry

AL-AUJA DESIGN

POWER LAYOUT

Date: 01/10/2025
Scale: 1/100
City: RAMALLAH
Sheet: 01/01

E 301



Pin Wood Board 80cm x 120cm



Suggested by: J.C. Bland MAA
Drawn by: Gm
Checked by: E.E. Abel MS
Approved by: L.F. Burdette SV

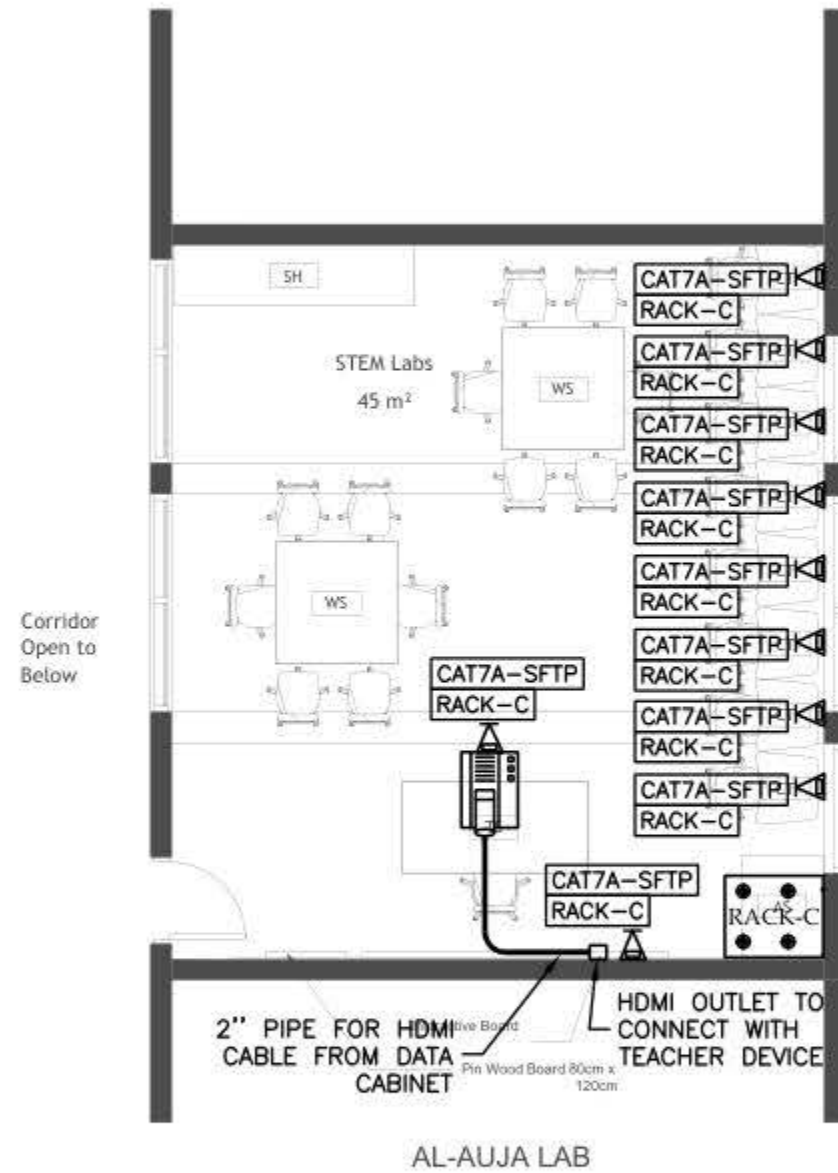


POWER FOR MECH

Date:	DEC 2005	E 401
Issue:	1/1/00	
City:	BANJALAH	
Ref:	GEORGE	

E 401

NOTES



NO	DATE	DESCRIPTION
1		
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 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
 Orbit Consultant Engineers

Electrical Engineering
 Designed by: F. E. AL-AUJA
 Drawn by: F. E. AL-AUJA
 Checked by: F. E. AL-AUJA
 Approved by: F. E. AL-AUJA

AL-AUJA DESIGN

LOW VOLTAGE LAYOUT

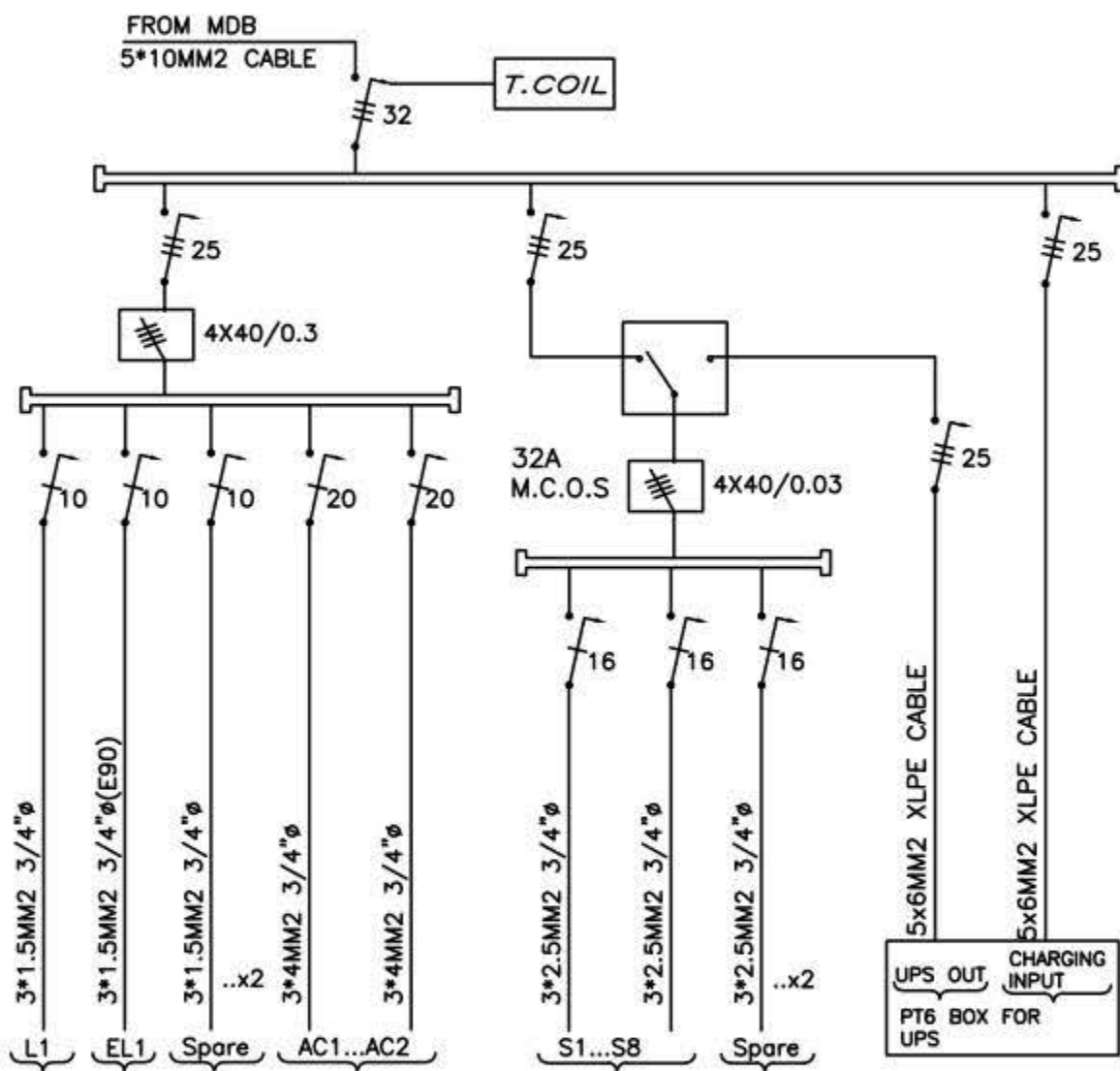
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Scale:	1/100
City:	RAMALLAH
Sheet:	24/08

E 501



E 601

BOARD NAME: DBC



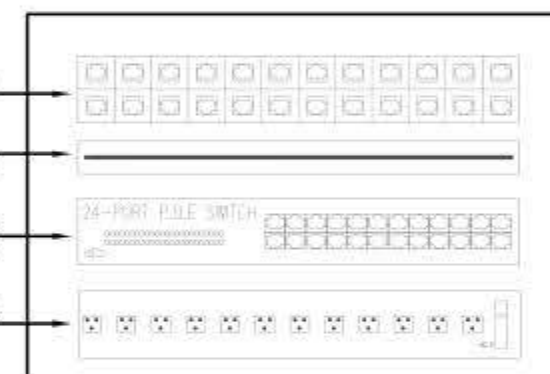
10 DATA POINTS/CAT7A CABLES

24-PORT DATA P.P/CAT7A

AIR PATCH PANEL

24-PORT P.o.E DATA SWITCH

POWER STRIP



RACK-C (12U)

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		



Electrical Engineering

Designed by: F. El-Badry MSc Eng

Drawn by: Sami

Checked by: F. El-Badry MSc Eng

Approved by: F. El-Badry MSc Eng

AL-AJJA DESIGN

POWER DIAGRAMS

Date: 01/11/2025

Scale: 1/100

City: RAMALLAH

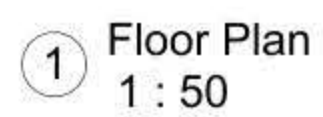
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E 701

Design and supervision consultancy for rehabilitation and/or creation of STEM Labs in schools in the West Bank

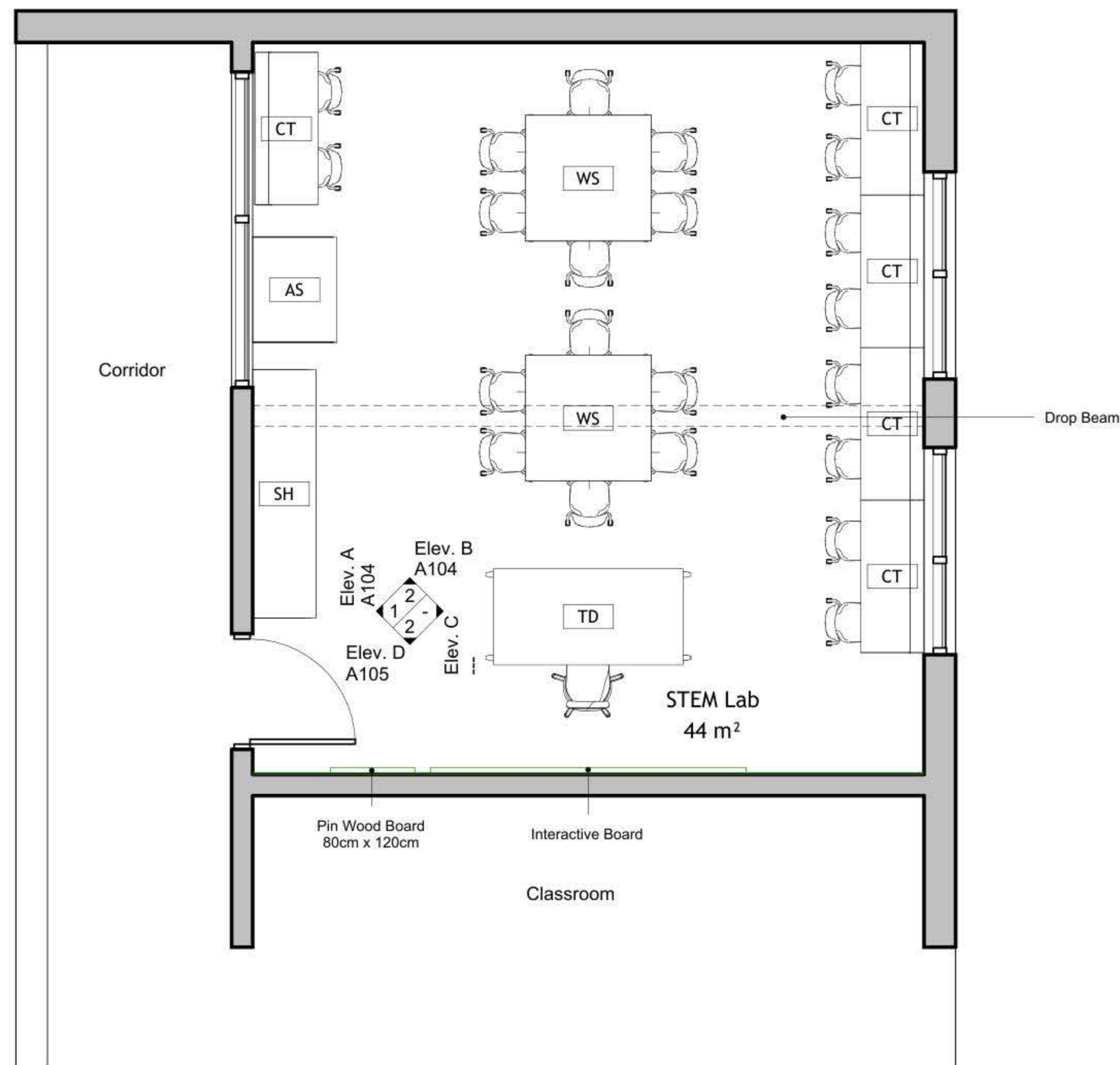
Fasayel Secondary Mixed School





JOB #	DWG #	A101	BLOCK #	0
SCALE: 1 : 50	Sht. of		REV. #	1

Furniture Schedule		
ID	Description	Count
	Student Chair	22
AS	Arts Storage (A1)	1
CT	Computer Table	5
SH	Shelves Storage	1
ST	Adjustable Stool	1
TD	Planner Studio Table	1
WS	Work Station	2



1 Floor Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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Rev.	Description	App. by	Date

DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 10/12/25

PROJECT:

**STEM Labs Design-
As-Built**

Enabel Secondary Mixed School

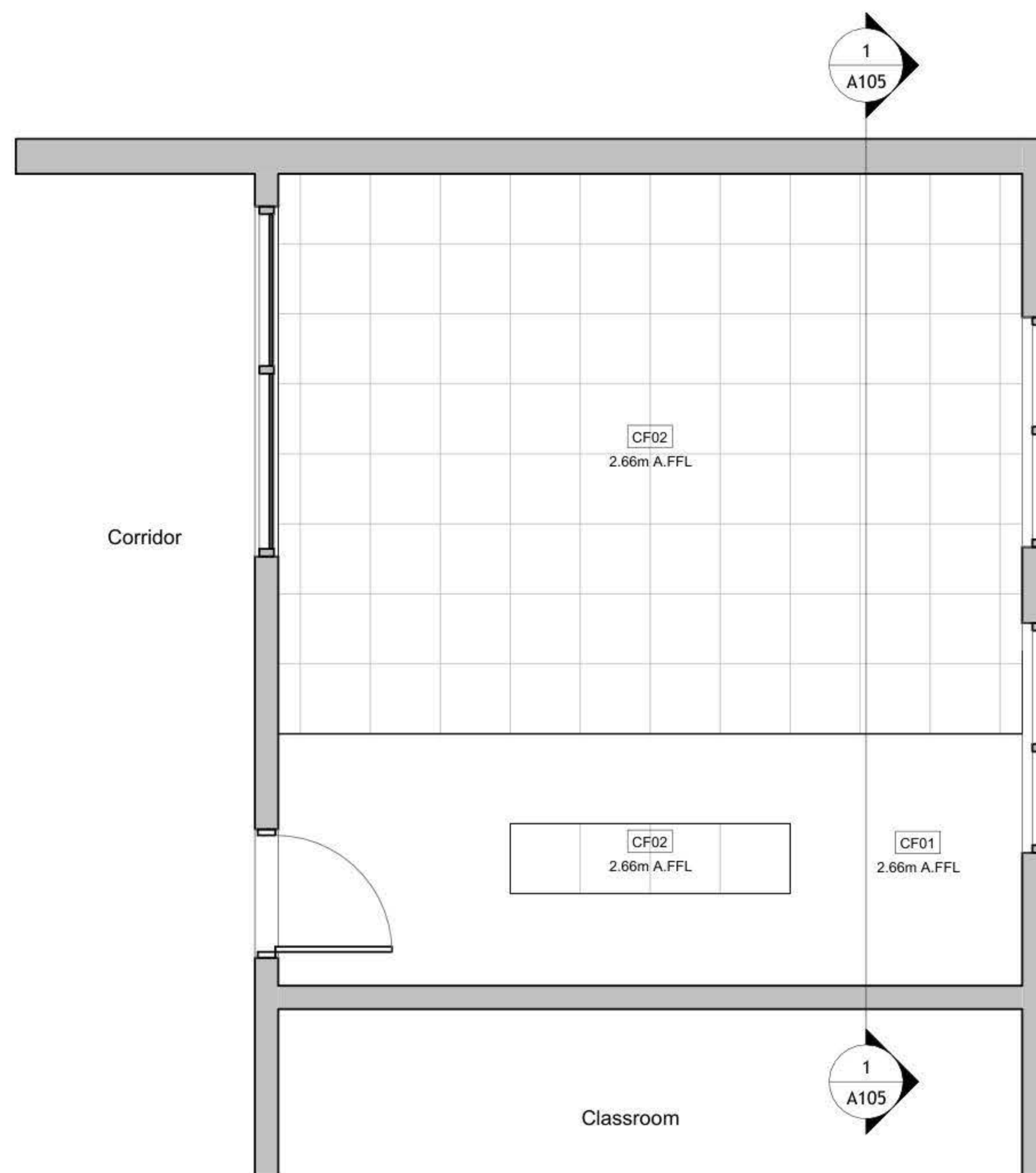
Project Status

DRAWING TITLE:

Furniture Plan

JOB #	DWG #	BLOCK #
	A102	00
SCALE:	Sht. of	REV. #
1 : 50		

Ceiling Schedule		
Type Mark	Description	Area
CF01	Gypsum Board	12 m ²
CF02	60 * 60 Mineral Fiber Tiles	32 m ²
Grand total: 3		44 m ²



① Reflected Ceiling Plan
1 : 50

DRAWING NOTES:

Contracting Authority:

Enabel

Enabel 

CONSULTANT:

GLOB CONSULTANTS

Qaddura Street
Ramallah, Palestine
Tel 022982405
email: hqurt@glob-consult.com

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DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE:	11/12/25
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PROJECT:

Eight STEM Labs in Middle and Northern Governorates

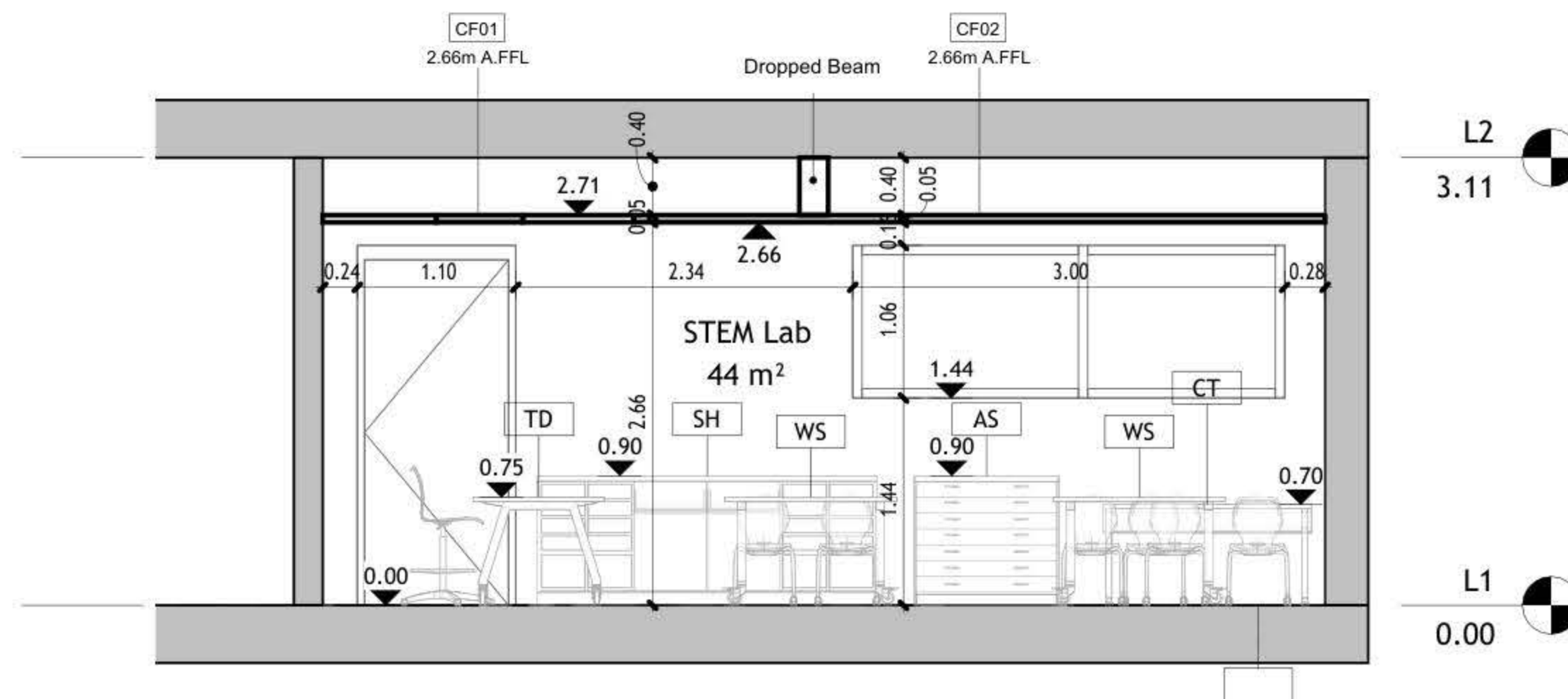
Fasayel Secondary Mixed School

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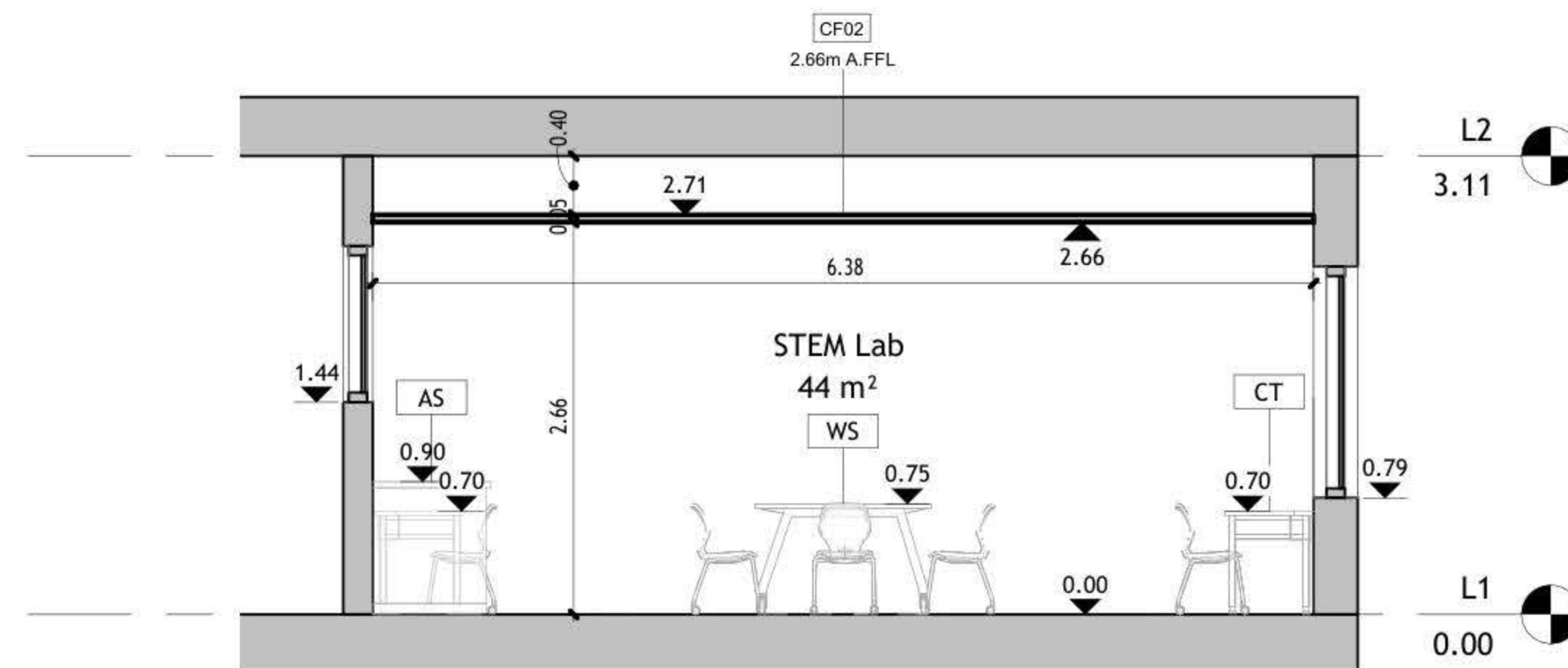
Reflected Ceiling Plan

JOB #	DWG #	A103	BLOCK #	0
SCALE: 1 : 50	Sht.	of	REV. #	

① Elev. A
1 : 50



② Elev. B
1 : 50



DRAWING NOTES:

Contracting Authority:

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Enabel

CONSULTANT:

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Ramallah, Palestine
Tel 022982405
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DESIGNED BY:

APPROVED BY: Dr. Husni Qurt

DWG ISSUE DATE: 9/15/2025

PROJECT:

Eight STEM Labs in Middle and
Northern Governorates

Fasayel Secondary Mixed School

DRAWING TITLE:

Internal Elevations

JOB #	DWG #	BLOCK #
	A104	00
SCALE:	Sht. of	REV. #
1 : 50		

NO.	DESCRIPTION	SYMBOL	DESCRIPTION
E000	TITLE&LEGEND		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E101	LIGHTING LAYOUT		DITTO, BUT WEATHER PROOF
E201	EMERGENCY LIGHTING LAYOUT		3-PIN,(1-PHASE) 16A DOUBLE SOCKET OUTLET
E301	POWER LAYOUT		DITTO, BUT WEATHER PROOF
E401	POWER FOR MECH LAYOUT		SOCKET ABOVE FALSE CEILING
E501	LOW VOLTAGE LAYOUT		3-PIN,(1-PHASE) 16A SOCKET OUTLET
E601	FIRE ALARM SYSTEM		RED COLOR CONNECTED TO UPS
E701	POWER DIAGRAMS		DITTO, BUT DOUBLE SOCKET OUTLET
			(3-PHASE) 16A SOCKET OUTLET
			20A AC SOCKET OUTLET
			FLOOR MOUNTED BOX,16 MODULE
			ELECTRIC BOX.
			EXTRACT FAN,WALL OR INLINE.
			ISOLATING SWITCH,2P,4P
			AC UNIT,OUTDOOR,INDOOR.
			CIRCUIT BREAKER,MCB,MCCB
			EARTH LEAKAGE RELAY (RCD)
			AUTOMATIC TRANSFER SWITCH (ATS)
			TRIP COIL UNIT
			TELEPHONE SOCKET OUTLET
			DATA SOCKET OUTLET
			INDOOR,OUTDOOR INTERCOME OUTLET
			DATA CABINATE
			SATELLITE SOCKET OUTLET
			WALL MOUNTED CAMERA,INDOOR&OUTDOOR
			DOME CAMERA.
			DIGITAL VIDEO RECORDER
			WALL MOUNTED LOUD SPEAKER
			CEILING MOUNTED LOUD SPEAKER
			OUTDOOR HORN LOUD SPEAKER
			AMPLIFIER UNIT
			ADDRESSABLE PHOTO OPTICAL SMOKE DETECTOR
			ADDRESSABLE HEAT DETECTOR
			BREAK GLASS UNIT
			INDOOR SIREN AUDIO ONLY
			OUTDOOR SIREN AUDIOVISUAL.
			ADDRESSABLE FIRE ALARM CONTROL PANEL
			ONE-WAY SWITCH SINGLE POLE
			ONE GANG, TWO GANG, THREE GANG
			BUSH BUTTON, FOR STAIR CASE LIGHTING
			TWO-WAY/SINGLE POLE SWITCH, INTERMEDIATE, CROSS SWITCH
			ELECTRICAL BELL
			MAIN DISTRIBUTION BOARD
			SUB DISTRIBUTION BOARD

	SYMBOL	DESCRIPTION
A1		RECESSED MOUNTED 60*60, LED 36W , 4000LM, 111LM/W, 4000K, CRI>90, IP40, UGR<19, 50.000H@L80B20, EXTRUDED ALUMINUM BODY, PMMA TRANSPARENT THERMOPLASTIC COVER, ANTI-GLARE MICRO-PRISMATIC SCREEN, WHITE COLOUR.
A2		SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE, 6W, 920LM, 6000K, 50.000H, OPTICS FOR OPEN AREA, POLYCARBONATE BODY,SELF CONTAINED TYPE,EMERGENCY KIT FOR THREE HOURS DURATION.

GENERAL NOTES
<p>1- The lighting, power, and low current systems shall be installed separately from each other, i.e. conduits, wires boxes, Etc.</p> <p>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.</p> <p>3- Switches shall be wired in the phase lines only, the neutral conductors shall not be broken.</p> <p>4- Boxes for sockets outlets are to be installed 60cm above FFL, except in kitchen and where otherwise indicated.</p> <p>5- All sockets shall be wired in the same manner with the phase always connected to the same pole (right pole).</p> <p>6- The height of the top edge of the power Distribution Board above FFL to be 180 cm.</p> <p>7- All panel boards shall be with doors, and shall be wether water proof in wet areas.</p> <p>8- The main C.Bs shall be air insulated, adjustable, with magnetic and thermal 10protection, and have a min. rupturing capacity of 25 k.A.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>13- Galvanized steel strips should not be less than 30*3mm</p> <p>Earth resistance measuring shall be carried before backfilling.</p>

NOTES		
NO.	DATE	DESCRIPTION
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Orbit Ramallah
Tel.Fax02-2967876
E.Mail :info@orbit.ps
Website :www.orbit.ps
Orbit Consultant Engineers

Electrical Engineering

Designed by: E.E. GHANI ABD. ALKAR
Drawn by: from
Checked by: E.E. Adel Abu Ali
Approved by: E.E. Ramallah

FASAI EL DESIGN

TITLE AND LEGEND	
Date: OCT 2025 Scale: 1/100 City: RAMALLAH Ref: GLOBE	E 000

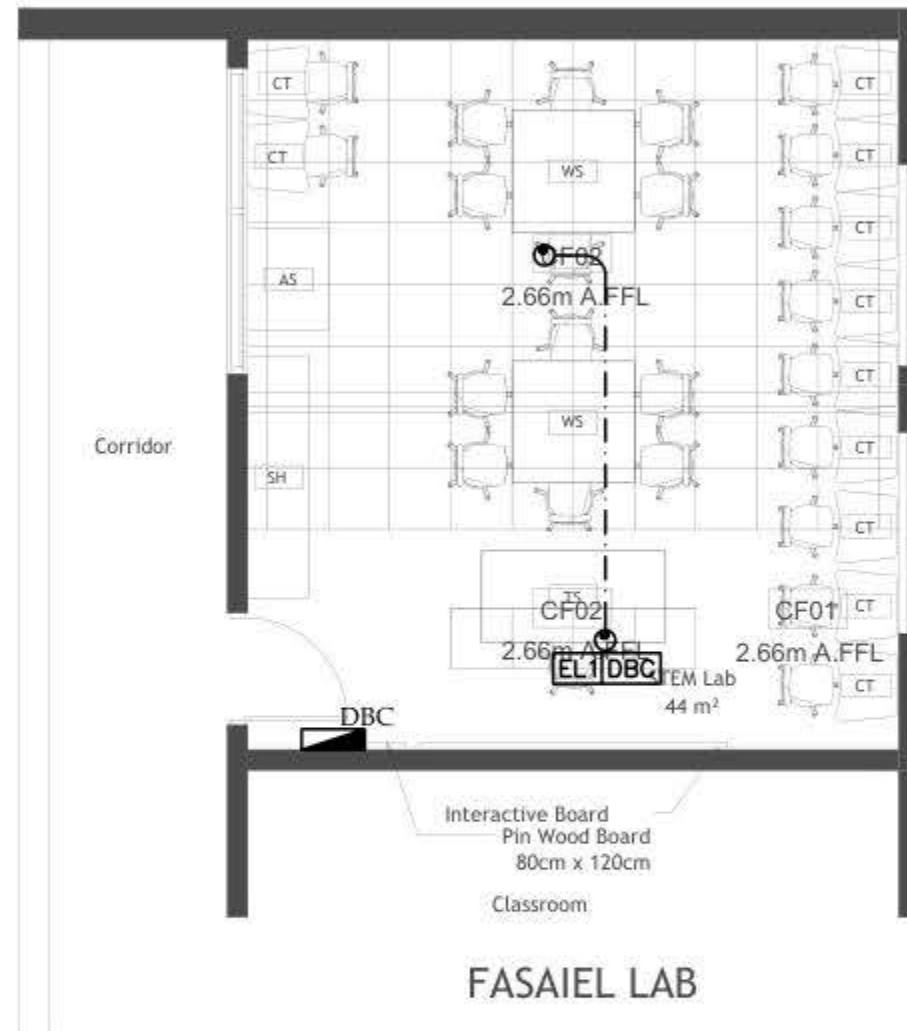


LIGHTING LAYOUT

Date: 2007.2005Date: 2007.2005

E 101

NOTES



NO	DATE	DESCRIPTION
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 Tel: Fax02-2967876
 E-Mail: info@orbit.ps
 Website: www.orbit.ps
 Orbit Consultant Engineers

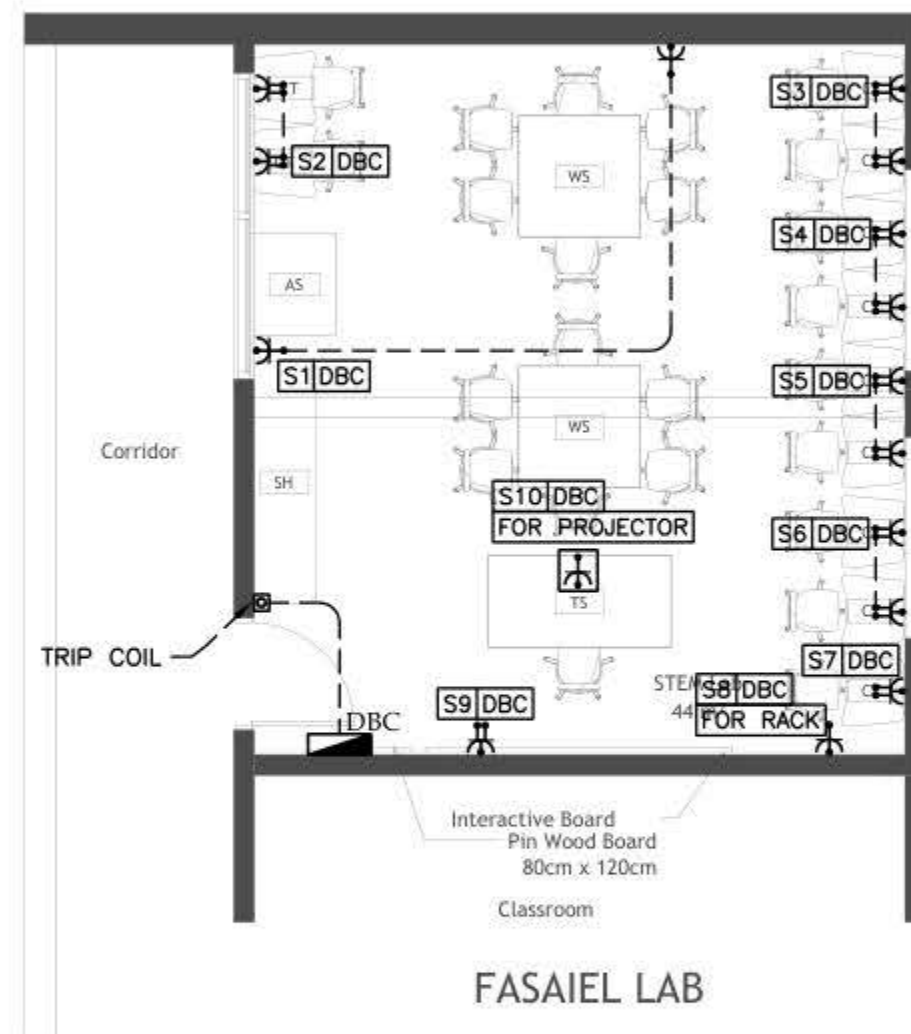
Electrical Engineering
 Designed by: F. El-Dabbas
 Drawn by: F. El-Dabbas
 Checked by: F. El-Dabbas
 Approved by: F. El-Dabbas

FASAIEL DESIGN

EMERGENCY LIGHTING LAYOUT

Date:	001/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/008

E 201



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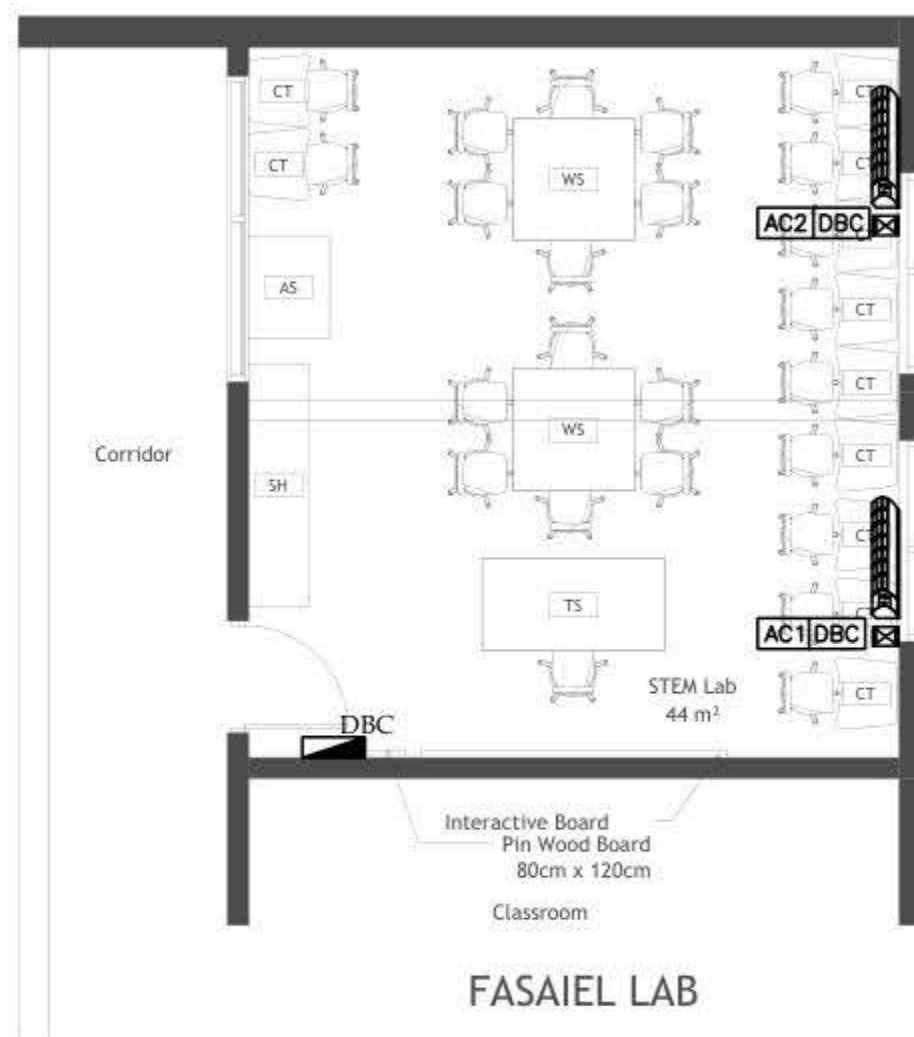


Electrical Engineering
 Designed by: F. E. El-Masry
 Drawn by: F. E. El-Masry
 Checked by: F. E. El-Masry
 Approved by: F. E. El-Masry
FASAIEL DESIGN

POWER LAYOUT

Date:	001/2005
Scale:	1/100
City:	RAMALLAH
Sheet:	34/008

E 301



Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

Drawn by	Sign
Checked by	E.E. Sheet No. Max

Approved by: J.E. Hernandez, Syst

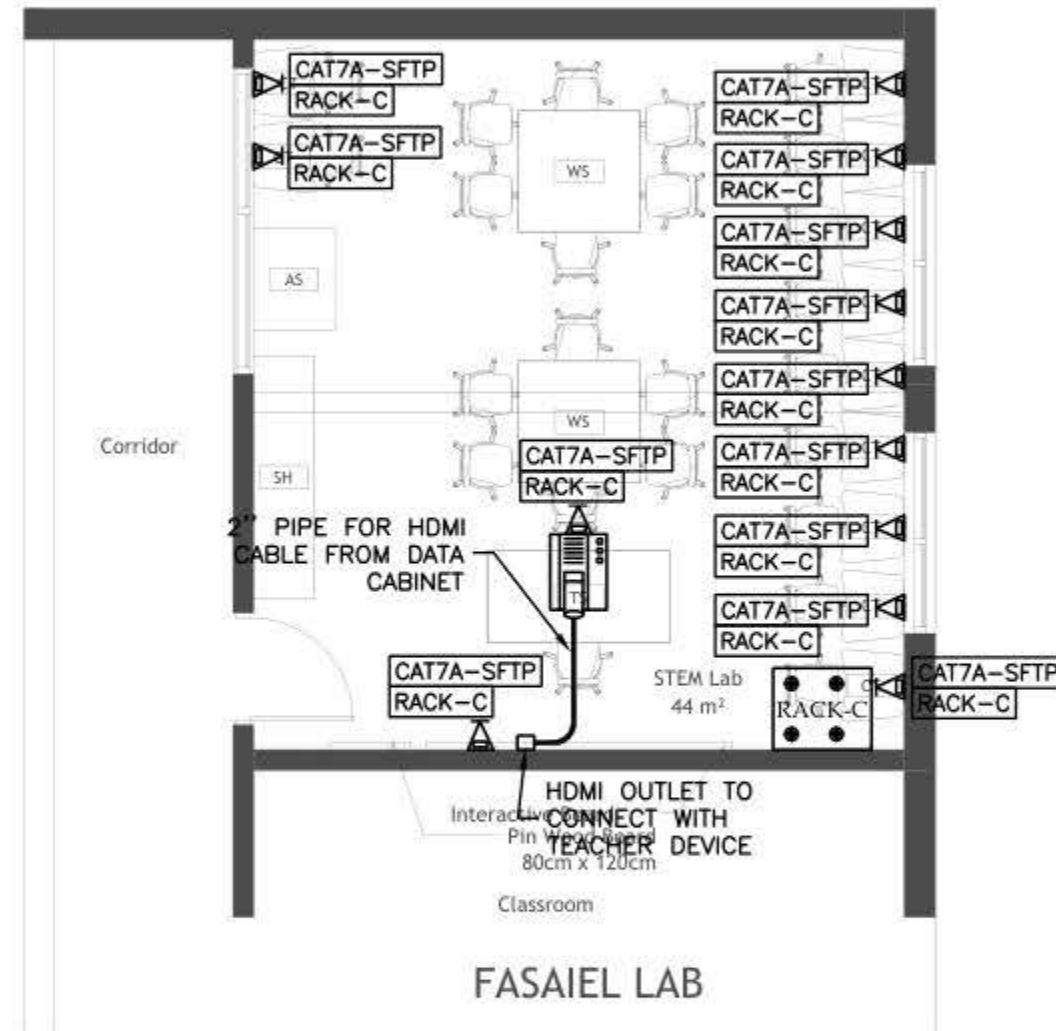
FASAJEL DESIGN

POWER FOR MECH

Date: _____

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E 401



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Electrical Engineering

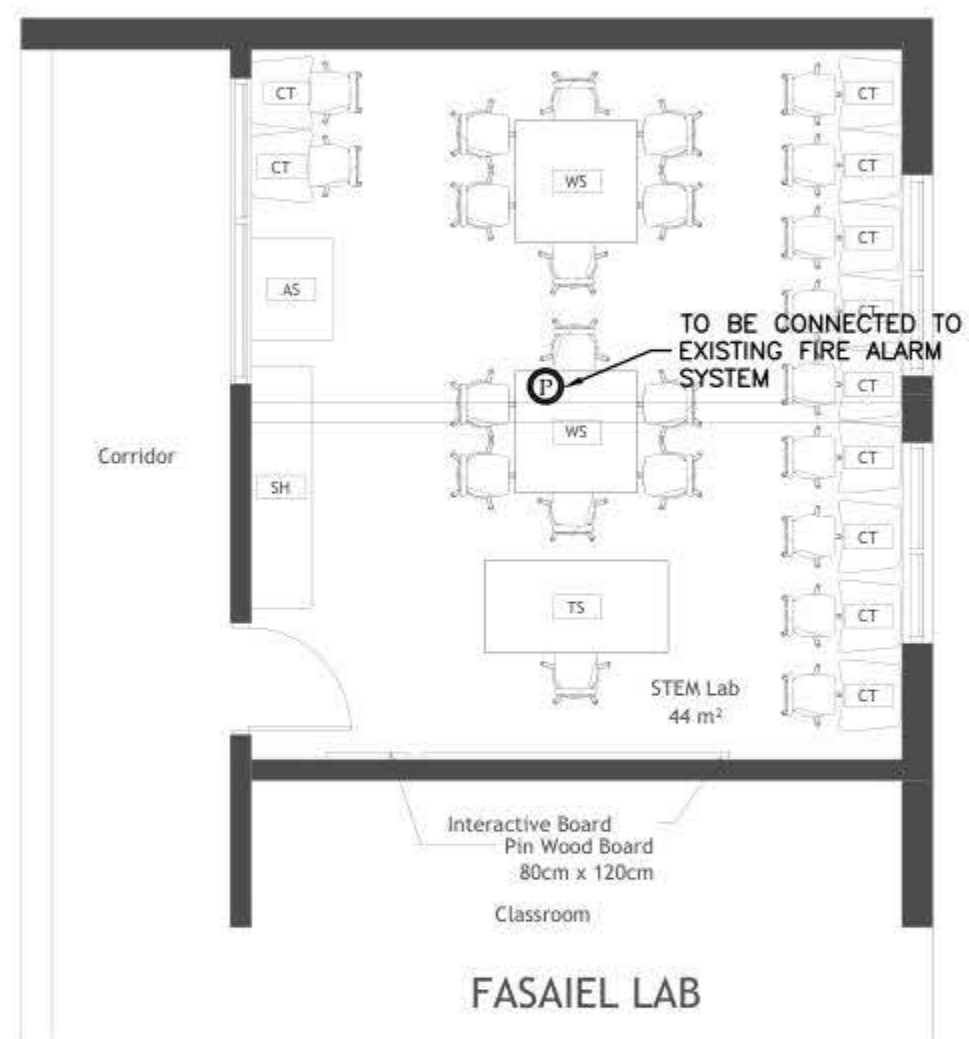
Designed by: F. El-Dabbas
Drawn by: F. El-Dabbas
Checked by: F. El-Dabbas
Approved by: F. El-Dabbas

FASAIEL DESIGN

LOW VOLTAGE LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/08

E 501



Electrical Engineering

Designed by: J. C. B. 2001 MA1 4029

Drawn by	Sign
Checked by	E.E. Sheet No. Max

Approved by: J.E. Hernandez, Syst

FASAJEL DESIGN

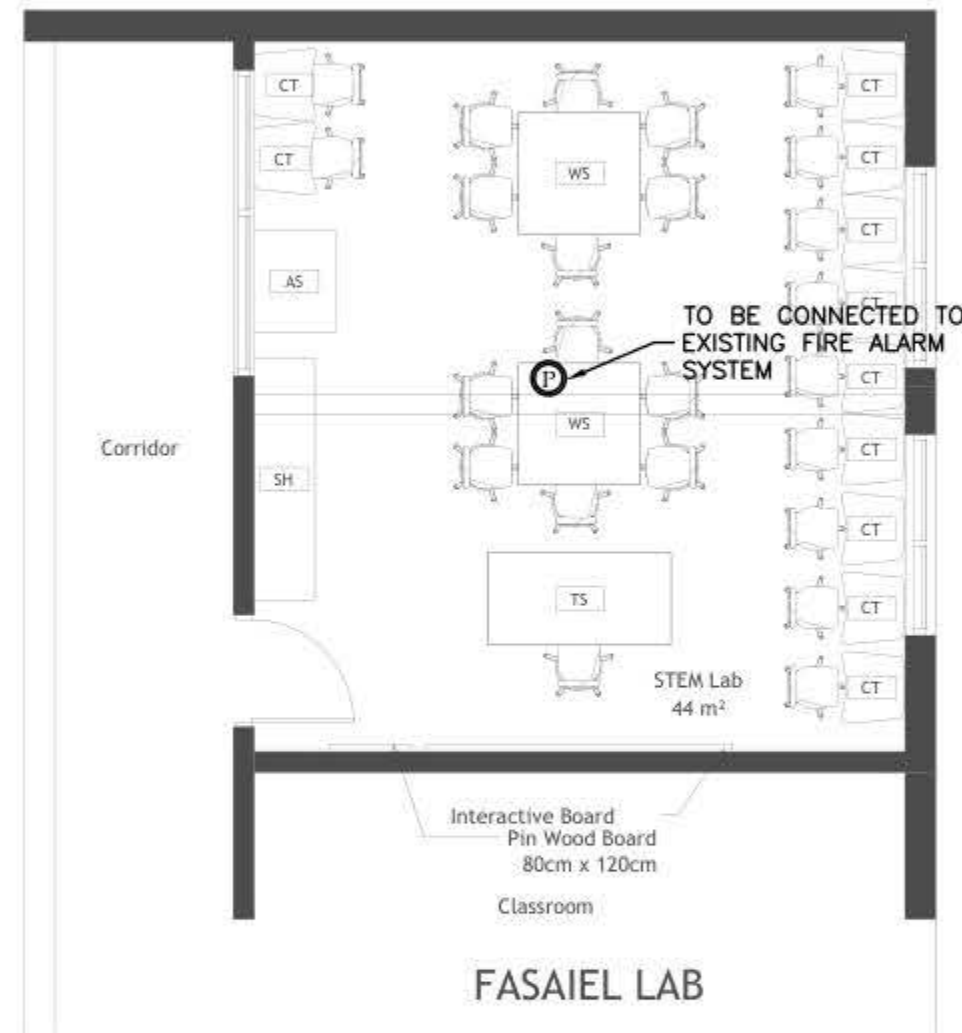
FIRE ALARM LAYOUT

Date: _____

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E 601

NOTES



NO	DATE	DESCRIPTION
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Electrical Engineering

Designed by: F. E. El-Masry
Drawn by: F. E. El-Masry
Checked by: F. E. El-Masry
Approved by: F. E. El-Masry

FASAIEL DESIGN

FIRE ALARM LAYOUT

Date:	01/11/2025
Scale:	1/100
City:	RAMALLAH
Sheet:	24/08

E 601