



للهندسة والمقاولات
for Engineering & Contracting

Supporting the resilience of Yemen's fishing sector to preserve livelihoods, enhance food security and contribute to post-crisis recovery



مشروع توفير الطاقة الشمسية لموقع الإنزال السمكي بخلف (المشروع الرابع) - مديرية المكلا - حضرموت

Solar system project 4th Mashrou landing in Al- Mukalla - Hadhramout

Location:	Khalaaf landing project (fourth Mashrou)	مركز إنزال خلف (المشروع الرابع)	الموقع:
District:	Al- Mukalla	المكلا	المديرية:
Gov.	Hadhramout	حضرموت	المحافظة:
Coordinates	14.524250, 49.150556		الإحداثيات

الرسومات

Drawings

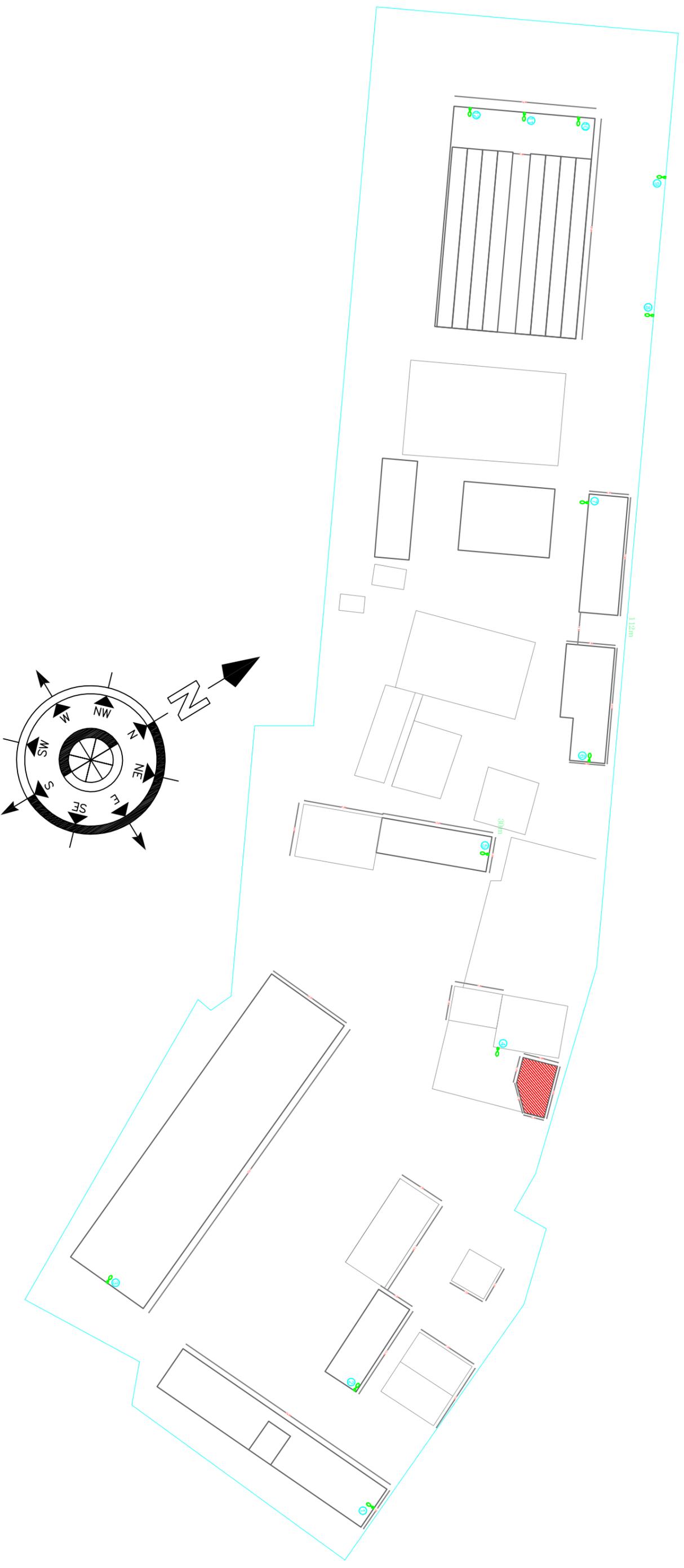


Project name	Solar system project 4th Mashrou landing in Al-	Mukaddele:	Fit
Submit to	EXPERTISE FRANCE GROUPE AFD	Date:	23/05/2024
Prepared submitted	Modern Arathy constructions - MAC for Engineering & Contracting	Chart Type:	Electricity
Plate name	GENERAL Arial layout	Pag no:	001



Our location Main Street Al Salam Zone – Near to Mukalla Post Off. Mukalla City - Hadramout **E-mail** mac.mukalla@gmail.com **Contacts** 05/301661-967776857665 - 967735549108

Water-Resistant LED Street Light 100W

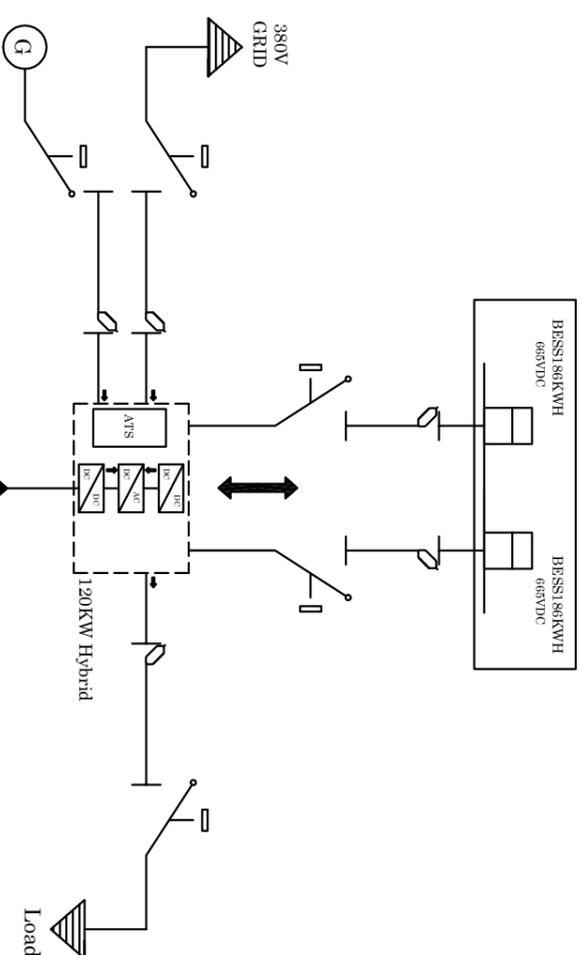


Project name	Solar system project 4th Mashrou landing in Al- Mukalla	
Submit to	EXPERTISE FRANCE GROUPE AFD	
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting	
Plate name	STREET LIGHT -GENERAL PV LAYOUT2	Fit
	Date:	23/05/2024
	Chart Type:	Electricity
	Pag no:	003

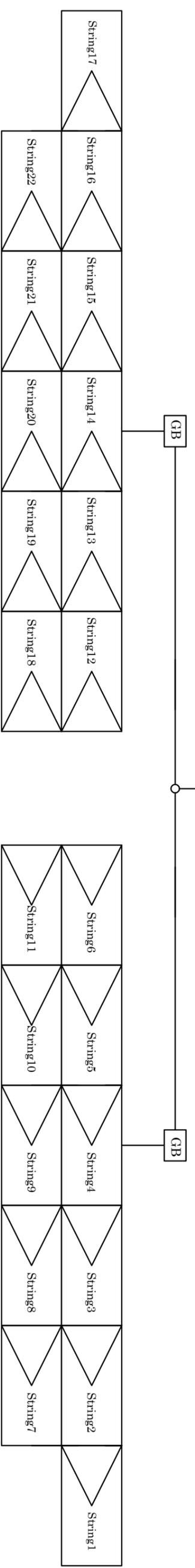


Our Location Main Street Al Salam Zone – Near to Mukalla Post Off.Mukalla City - Hadramout E-mail mac.mukalla@gmail.com Contacts 05/301661-967776857665 - 967735549108

Battery ES Cabinet



PV



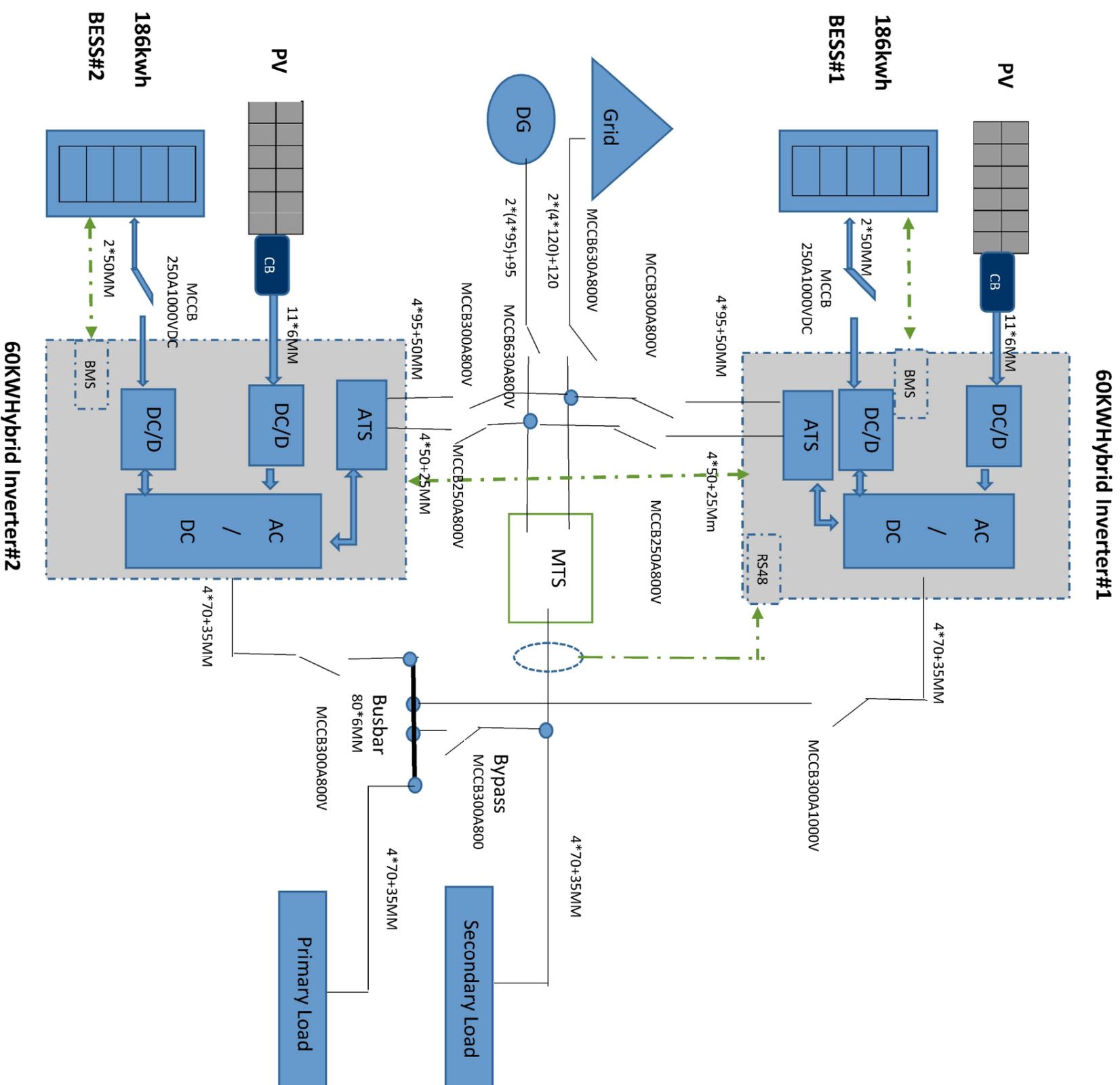
PV



Project name	Solar system project 4th Mashrou landing in Al- Mukalla
Submit to	EXPERTISE FRANCE GROUPE AFD
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting
Plate name	Single Line Diagram SLD

Scale:	Fit
Date:	23/05/2024
Chart Type:	Electricity
Pag no:	004

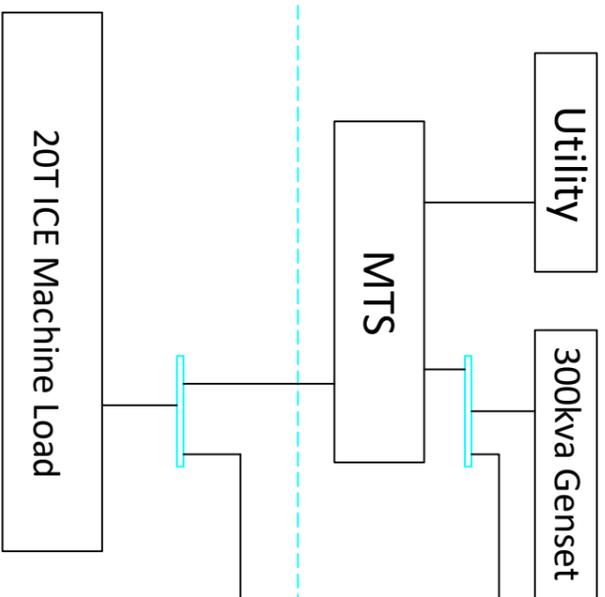




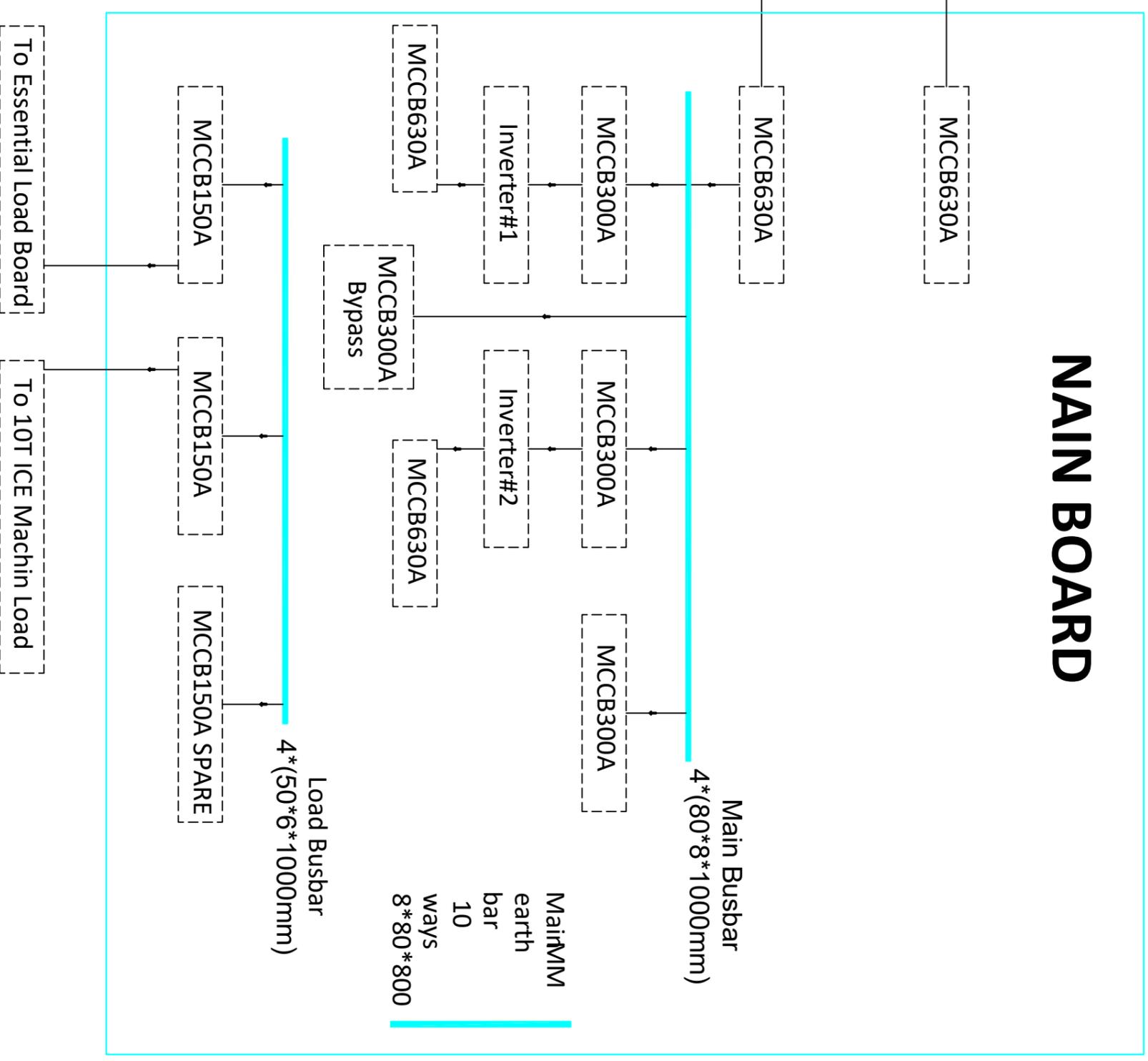
Project name	Solar system project 4th Mashrou landing in Al- Mukalla
Submit to	EXPERTISE FRANCE GROUPE AFD
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting
Plate name	Detailed block Diagram

Scale:	Fit
Date:	23/05/2024
Chart Type:	Electricity
Pag no:	005

EXISTING



MAIN BOARD



Quantities:

- 1) MCCB630A /2
- 2) MCCB300A/6
- 3) MCCB150A/3
- 4) Copper Bulbar 1000*80*8/4
- 5) Copper Bulbar 800*50*6/4
- 6) Copper Earth bar 800*50*6/1



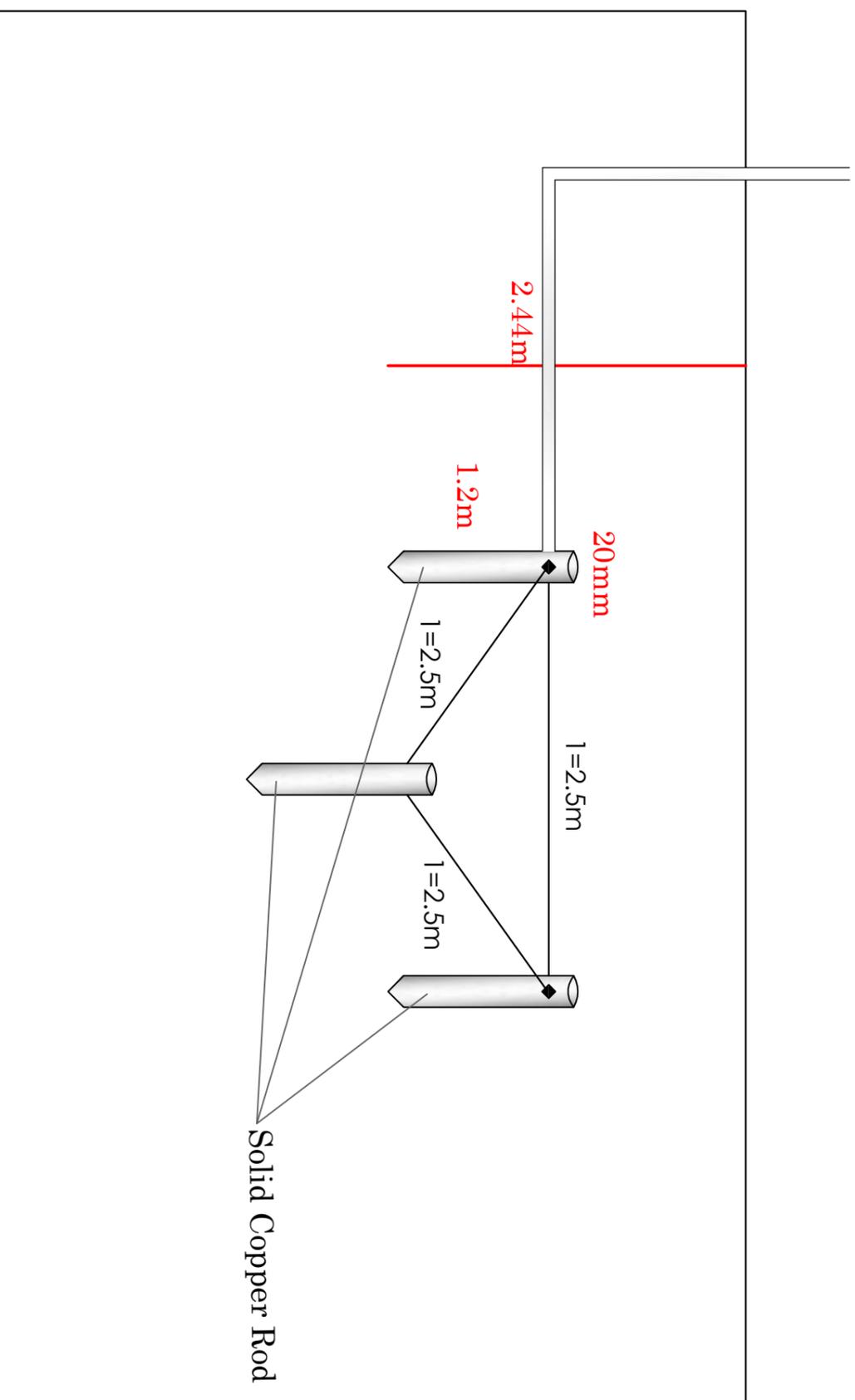
Project name
Submit to
Prepared submitted by
Plate name

Solar system project 4th Mashrou landing in Al- Mukalla
EXPERTISE FRANCE GROUPE AFD
Modern Arab Constructions - MAC for Engineering & Contracting
Main_Board_SLD

Scale:
Date:
Chart Type:
Pag no:



Earth System Details Diagram

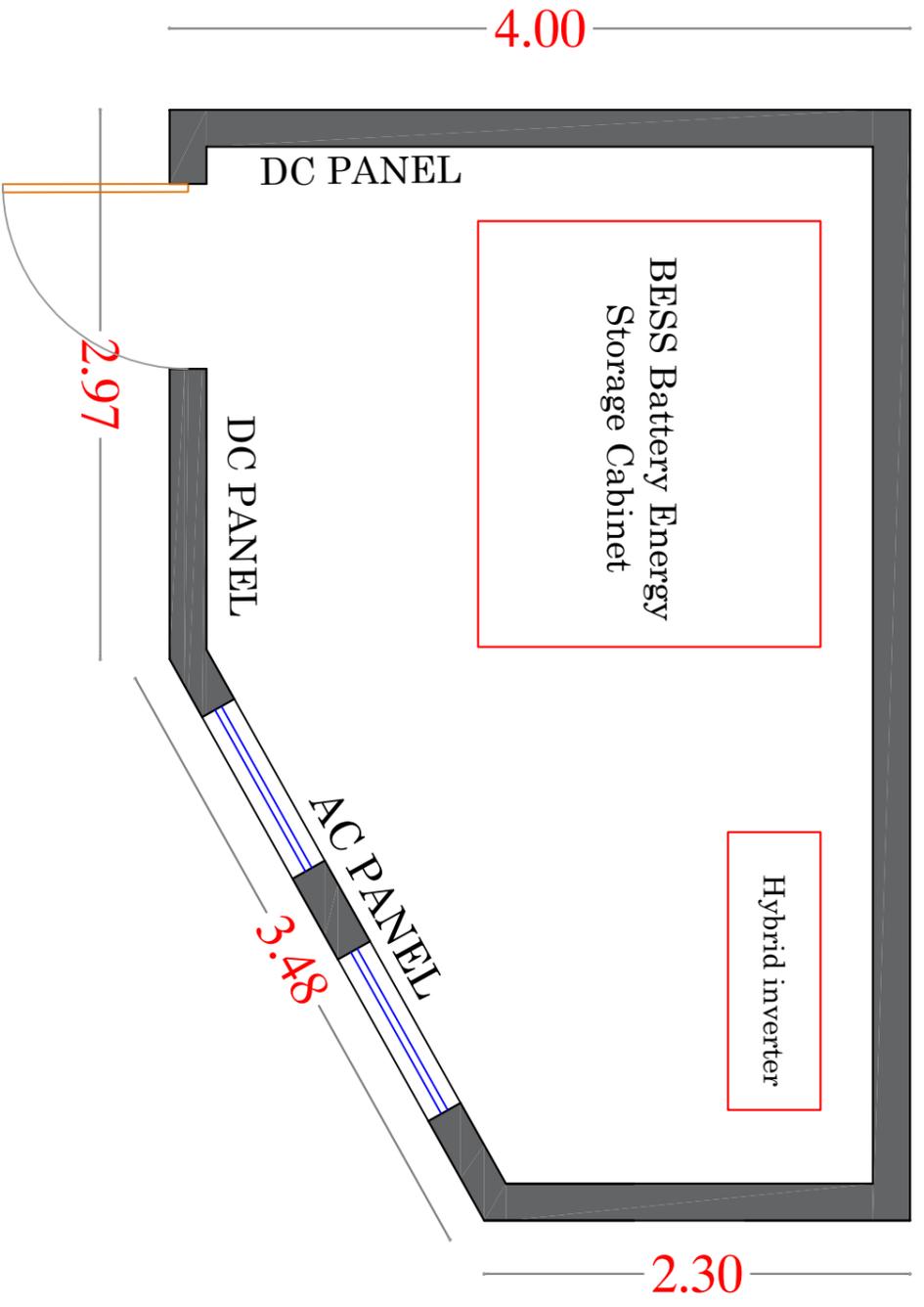


Project name	Solar system project 4th Mashrou landing in Al- Mukalla	Scale:	Fit
Submit to	EXPERTISE FRANCE GROUPE AFD	Date:	23/05/2024
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting	Chart Type:	Electricity
Plate name	Earth System Details Diagram	Pag no:	007



MAC
 للمهندسة والبناء
 for Engineering & Contracting

6.00

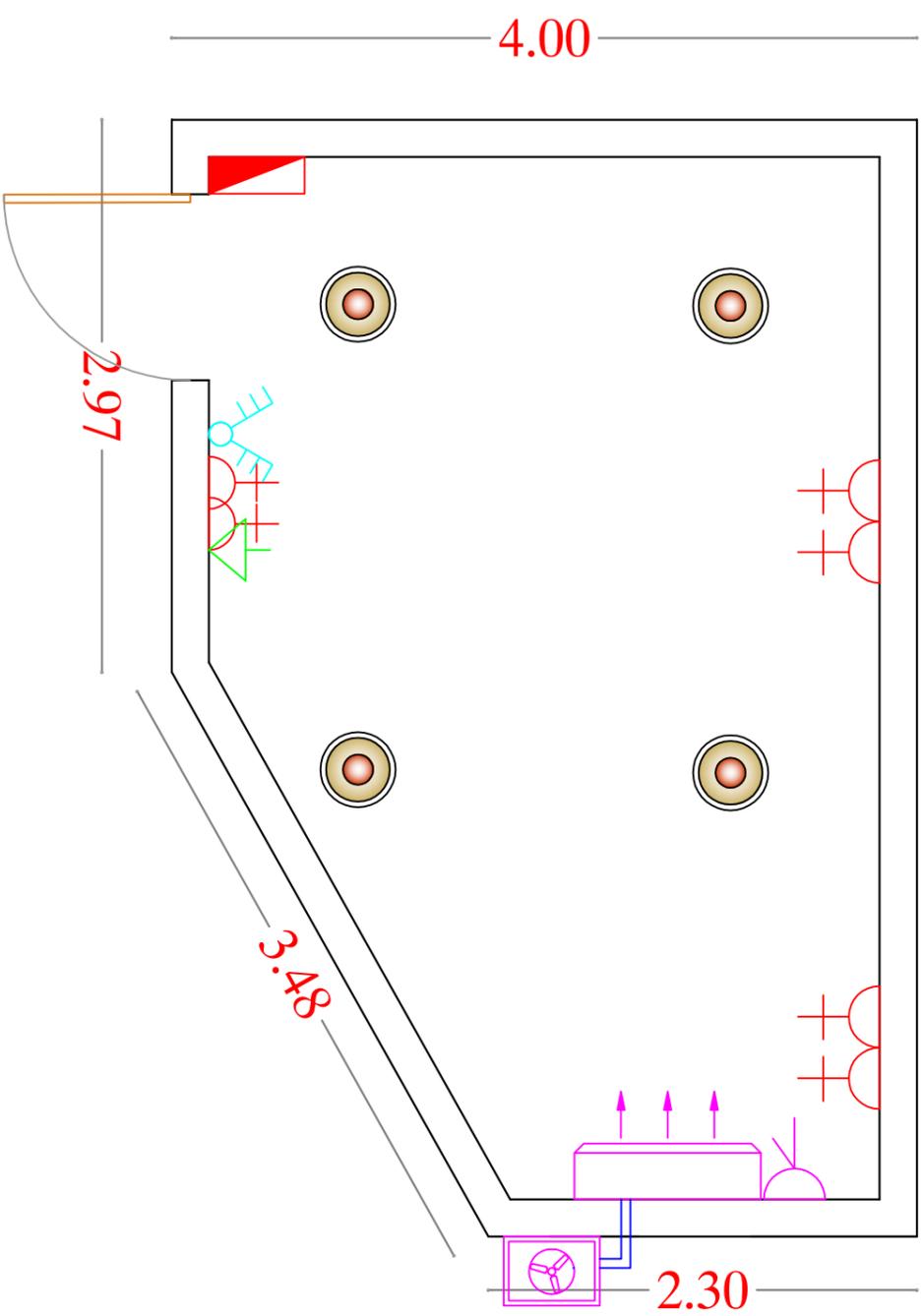


Project name	Solar system project 4th Mashrou landing in Al- Mukalla		Scale:	Fit
Submit to	EXPERTISE FRANCE GROUPE AFD		Date:	23/05/2024
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		Chart Type:	Electricity
Plate name	CONTROL ROOM		Pag no:	008

Our location Main Street Al Salam Zone – Near to Mukalla Post Off. Mukalla City - Hadramout E-mail mac.mukalla@gmail.com Contacts 05/301661-967735549108 - 967776857665



6.00



Symbol	Representation
	Sub-Distribution Board -3Phase
	Split Air Conditioning Indoor Unit Wall Mounted Type
	AC Split Unit Switch 20A
	Split Air Conditioning Unit - Outdoor Unit
	Socket Outlet 13A
	Ceiling-mounted LED Circular Light 40W
	One Way 1, 2 & 3 Gang Lighting Switches
	Telephone Socket Outlet
	Ethernet Data Outlet



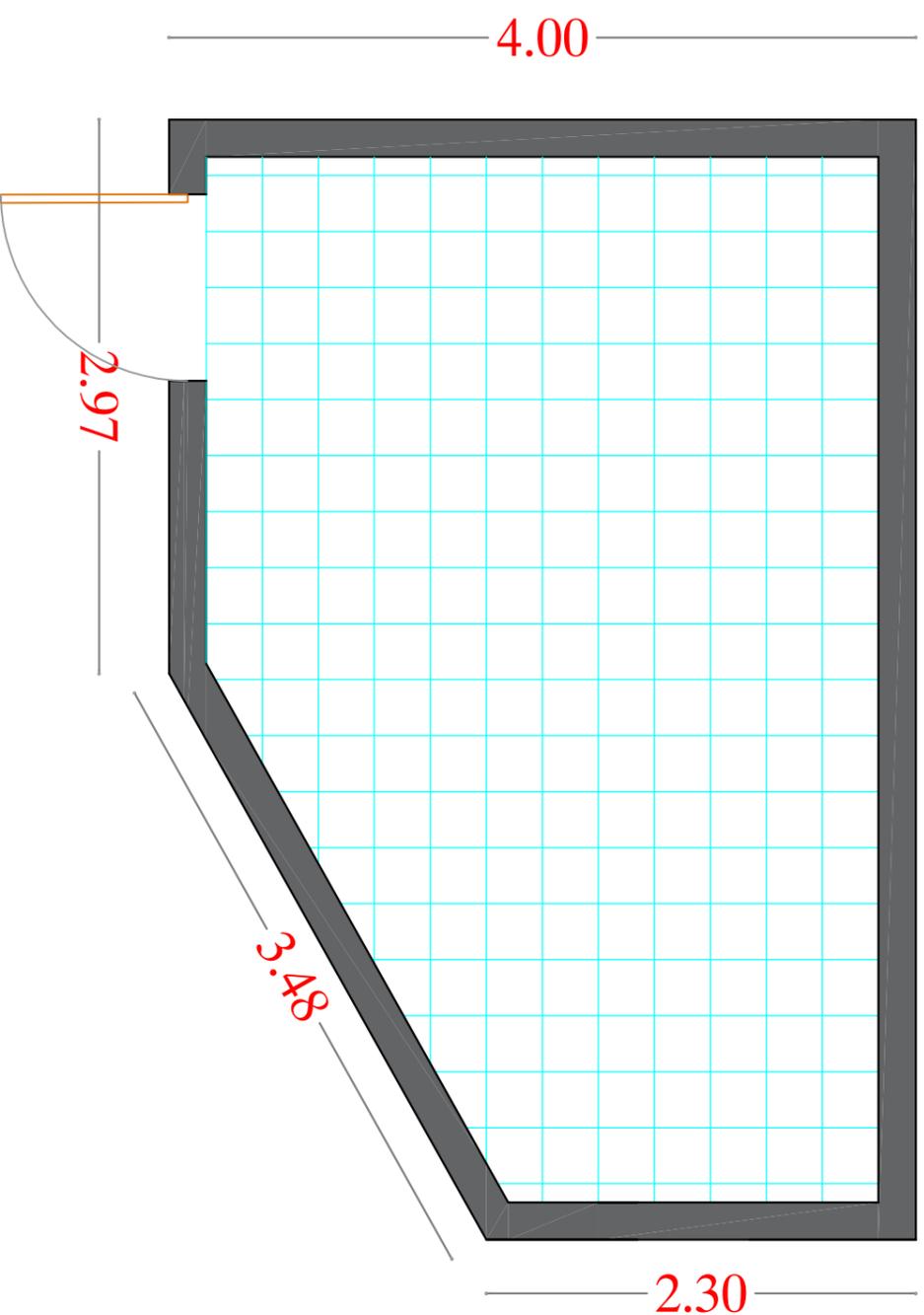
Project name
Submit to
Prepared submitted by
Plate name

Solar system project 4th Mashrou landing in Al- Mukalla
EXPERTISE FRANCE GROUPE AFD
Modern Arab Constructions - MAC for Engineering & Contracting
CONTROL ROOM

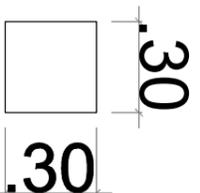
Scale:
Date:
Chart Type:
Pag no:



6.00



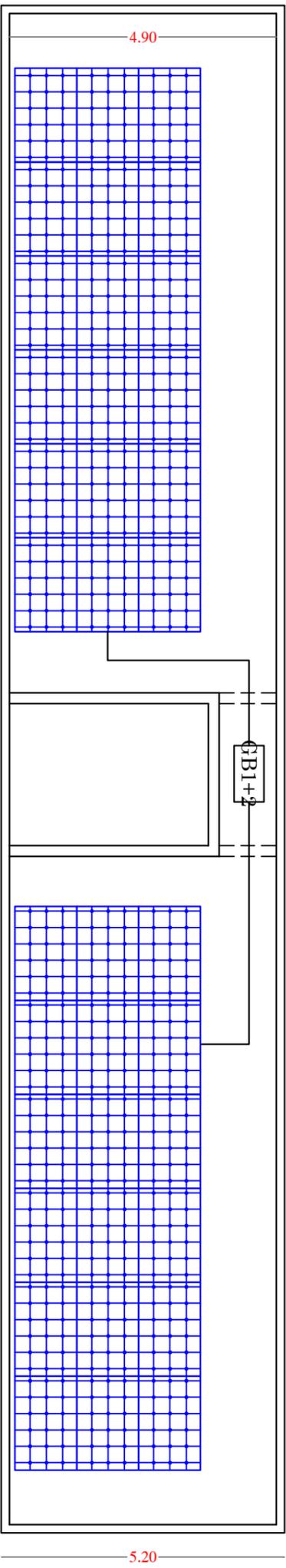
Excellent Quality 30X30 Matte Finish Glazed Ceramic Floor Tiles



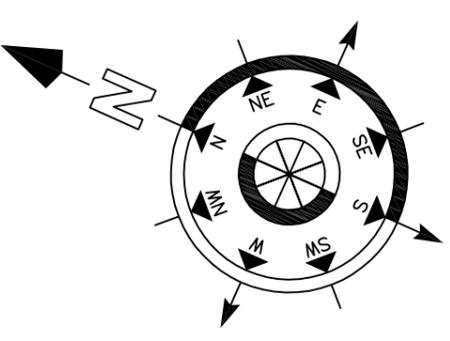
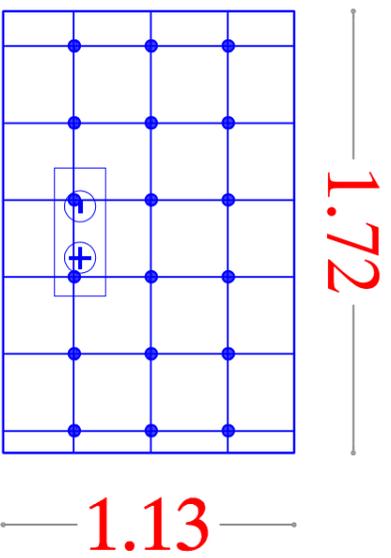
Project name	Solar system project 4th Mashrou landing in Al- Mukalla		Scale:	Fit
Submit to	EXPERTISE FRANCE GROUPE AFD		Date:	23/05/2024
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		Chart Type:	Electricity
Plate name	CONTROL ROOM Tile		Pag no:	010



28.00



ROOF 1+2



Azmuth	Tilt
157	010

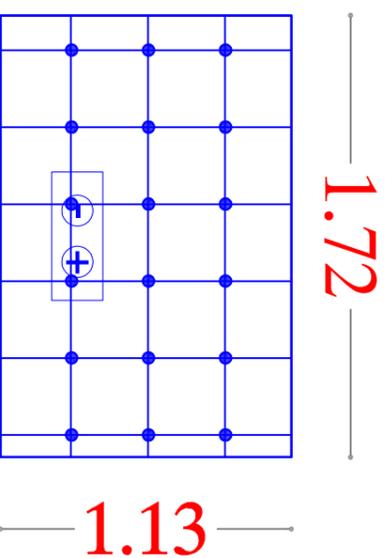
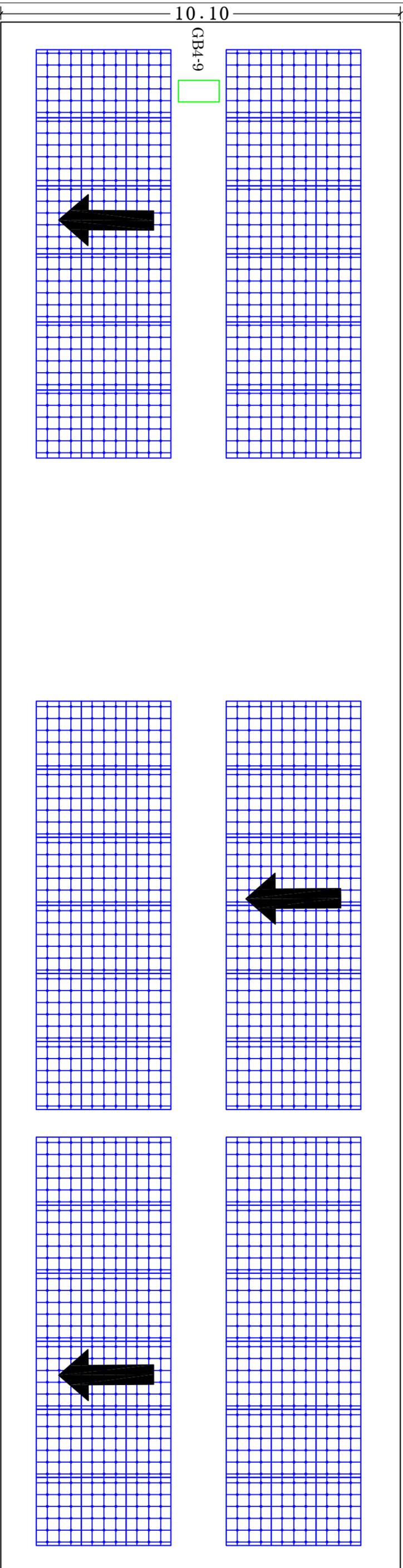


Project name	Solar system project 4th Mashrou landing in Al- Mukalla	Scale:	Fit
Submit to	EXPERTISE FRANCE GROUPE AFD	Date:	23/05/2024
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting	Size:	A3
Plate name	PV Layout - Roof 1+2	Pag no:	011

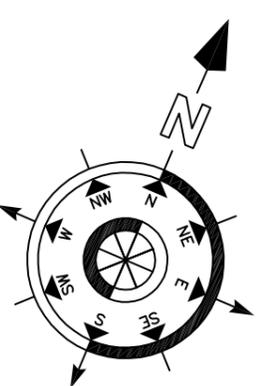


39.25

10.10



ROOF4+9



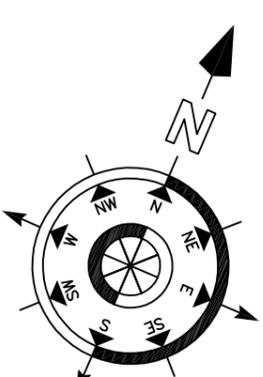
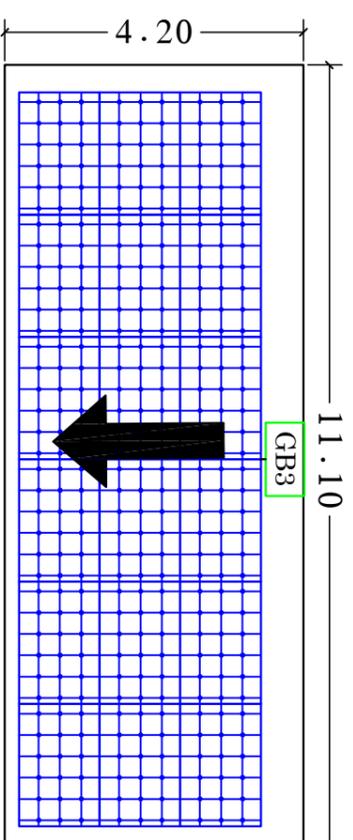
Azimuth	Tilt
247	05



Project name	Solar system project 4th Mashrou landing in Al- Mukalla		
Submit to	EXPERTISE FRANCE GROUPE AFD		
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		
Plate name	PV Layout - Roof 4-9		
Scale:	Fit	Date:	23/05/2024
Chart Type:	Electricity	Pag no:	012

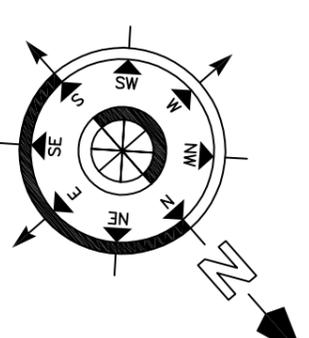
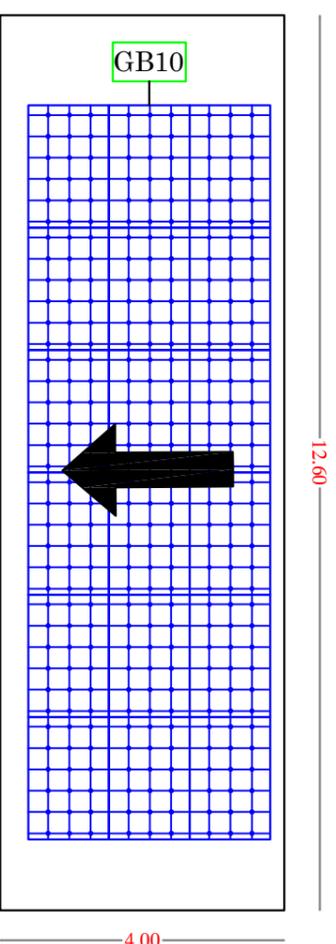


المشروع والبناء والهندسة والبناء والهندسة
for Engineering & Contracting



Azimuth	Tilt
247	010

ROOF3



Azimuth	Tilt
310	010

ROOF10



Project name
Submit to
Prepared submitted by
Plate name

Solar system project 4th Mashrou landing in Al- Mukalla
EXPERTISE FRANCE GROUPE AFD
Modern Arab Constructions - MAC for Engineering & Contracting
PV Layout - Roof 3+10

Scale: Fit
Date: 23/05/2024
Chart Type: Electricity
Pag no: 013



المشروع والبناء والبناء
for Engineering & Contracting

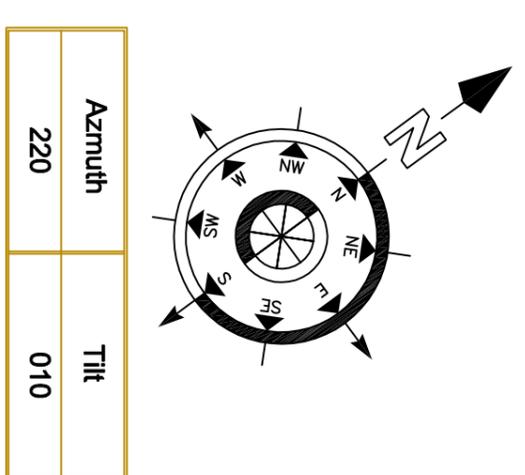
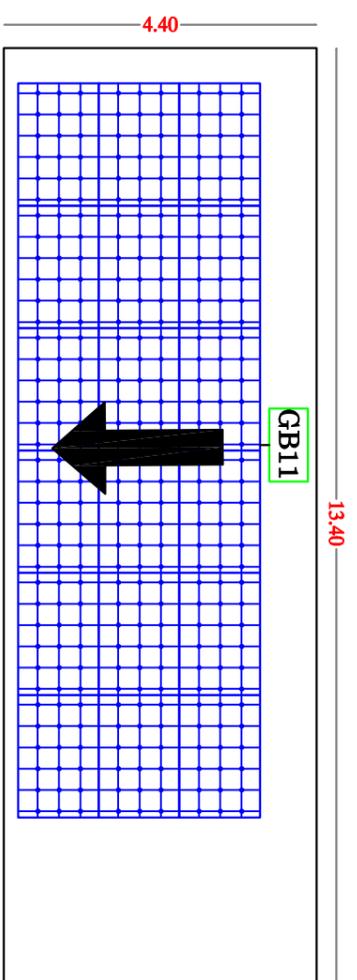
Our location Main Street Al Salam Zone – Near to Mukalla Post Off. Mukalla City - Hadramout

E-mail

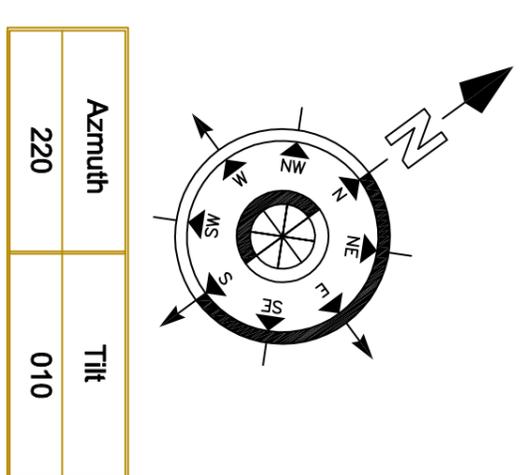
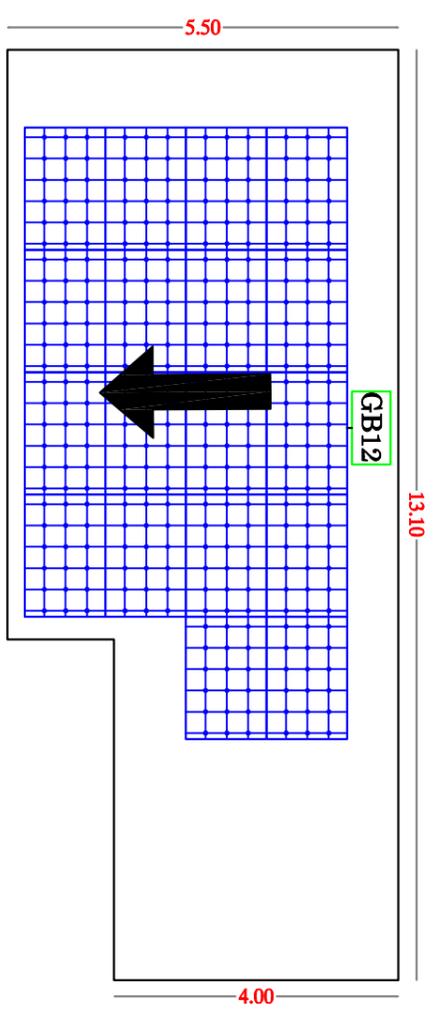
mac.mukalla@gmail.com

Contacts

05/301661-967735549108 - 967776857665



ROOF11



ROOF12

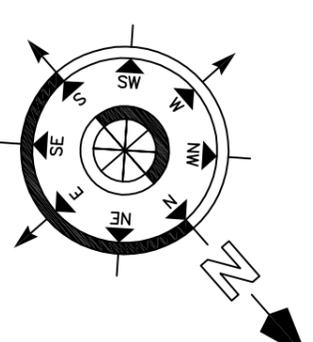
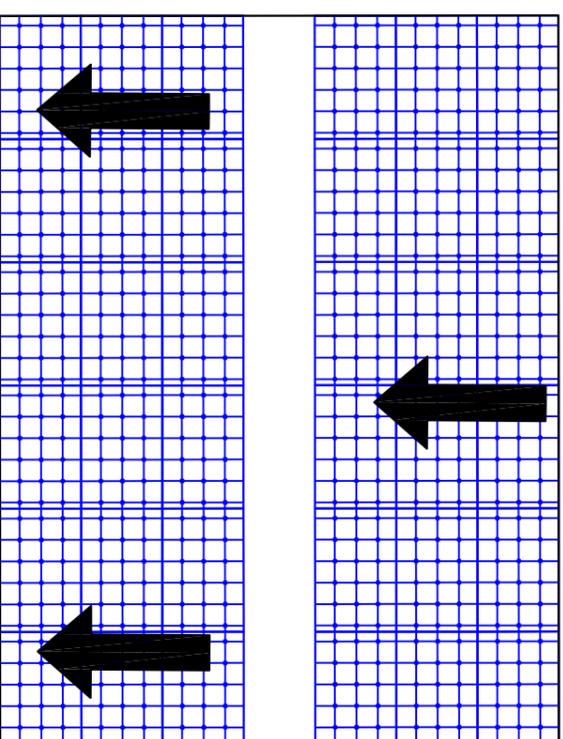


Project name	Solar system project 4th Mashrou landing in Al- Mukalla
Submit to	EXPERTISE FRANCE GROUPE AFD
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting
Plate name	PV Layout - Roof 11+12

Scale:	Fit
Date:	23/05/2024
Chart Type:	Electricity
Pag no:	014



GB13+14

Azimuth	Tilt
310	010

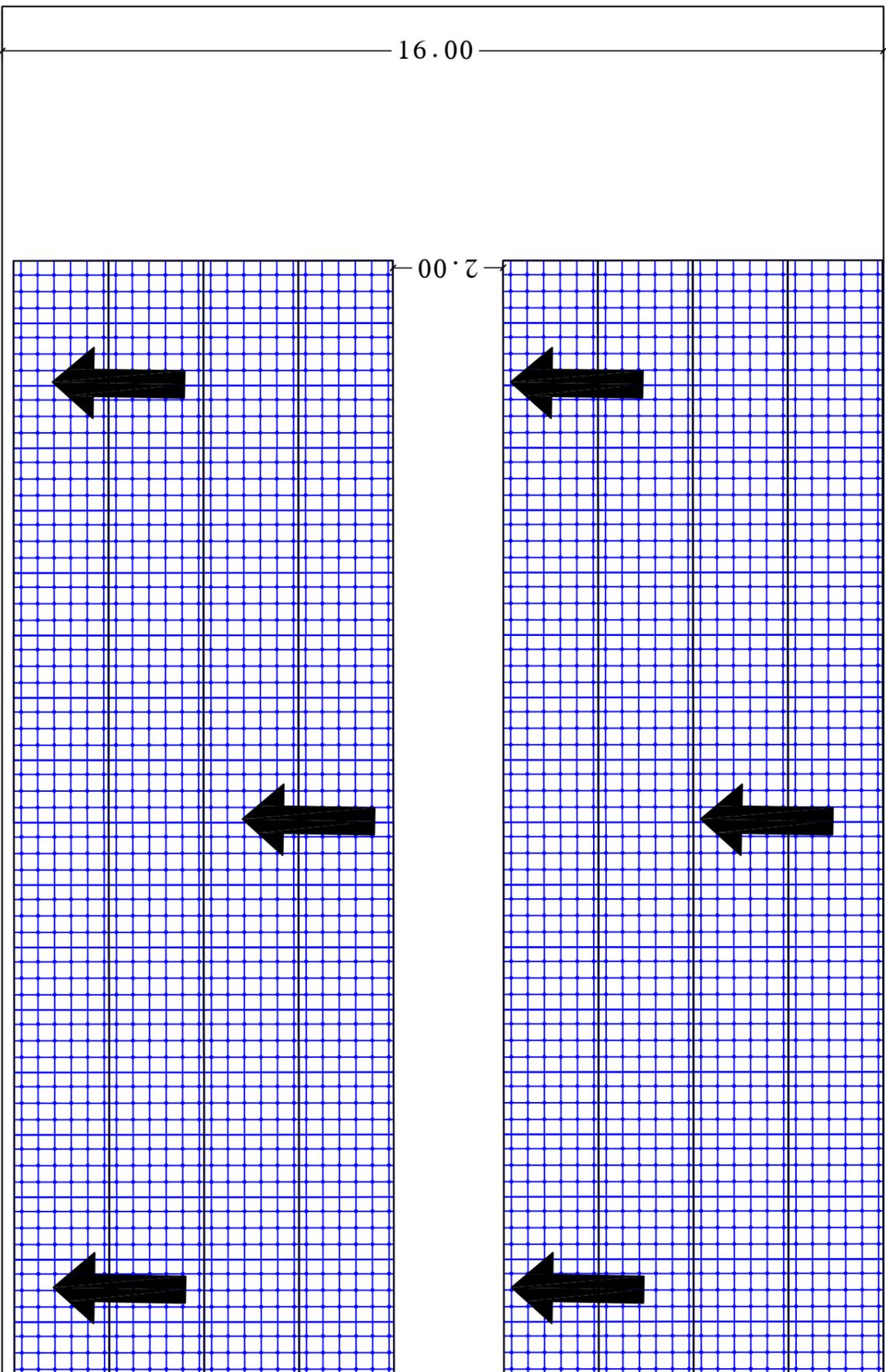
GROUND1



Project name	Solar system project 4th Mashrou landing in Al- Mukalla	Scale:	Fit
Submit to	EXPERTISE FRANCE GROUPE AFD	Date:	23/05/2024
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting	Chart Type:	Electricity
Plate name	PV Layout - Ground 1	Pag no:	015



25.00



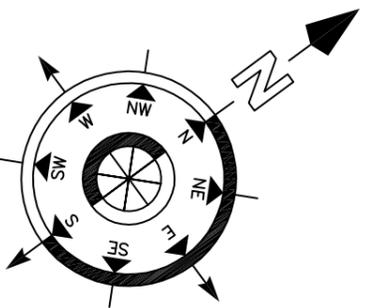
GB15-18



GB19-22



GROUNND2

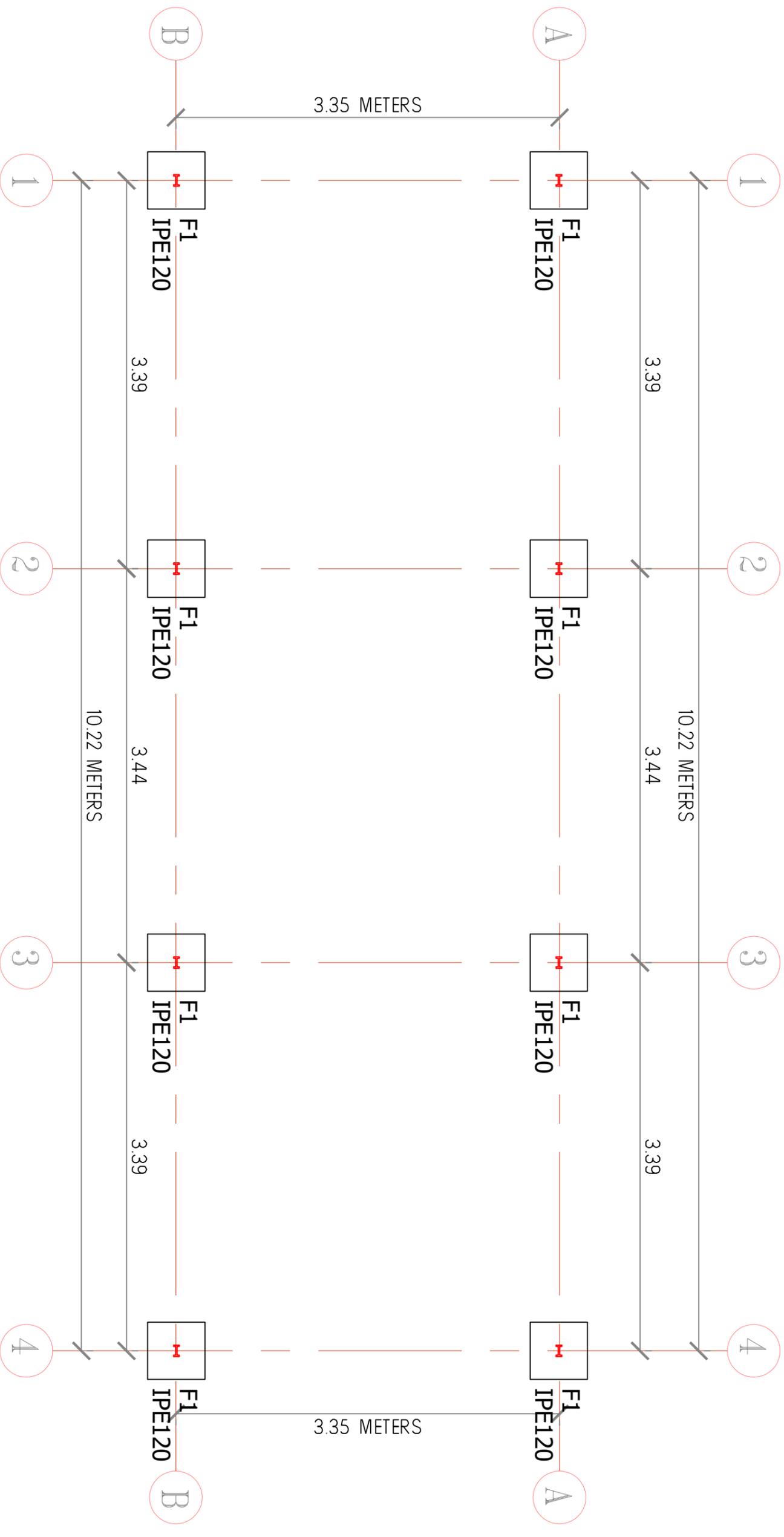


Azmuth	Tilt
220	015

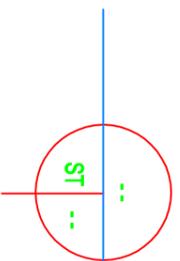


Project name	Solar system project 4th Mashrou landing in Al- Mukalla		
Submit to	EXPERTISE FRANCE GROUPE AFD		
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		
Plate name	PV Layout - Ground 2		
Scale:	Fit	Date:	23/05/2024
Chart Type:	Electricity	Pag no:	016





notes
 F1
 0.50M X 0.50M
 Depth 0.40M
 5Ø12 mm bottom in
 both direction



SCALE

N.T.S

مسقط الأعمدة والقواعد FOUNDATIONS & COLUMNS PLAN

ملاحظات
 F1
 0.50M X 0.50M
 عمق 0.40M
 5Ø12mm
 سفلي في الاتجاهين

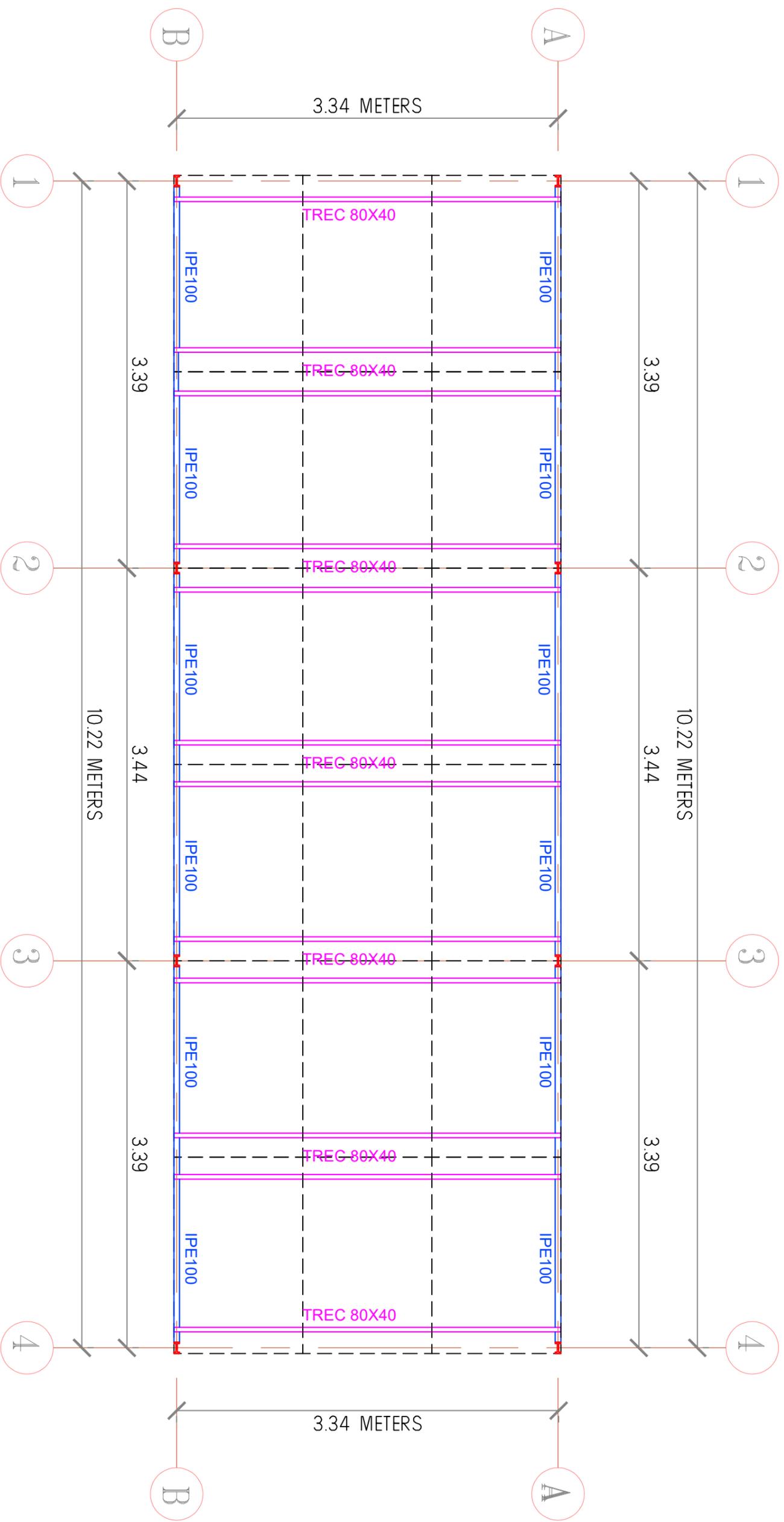


Project name
 Submit to
 Prepared submitted by
 Plate name

Solar system project 4th Mashrou landing in Al- Mukalla
 EXPERTISE FRANCE GROUPE AFD
 Modern Arab Constructions - MAC for Engineering & Contracting
 FOUNDATIONS & COLUMNS PLAN

Scale:
 Date:
 Chart Type:
 Pag no:



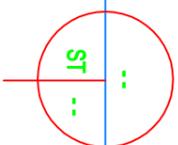


مساحة الجسور

ROOF FRAMING PLAN

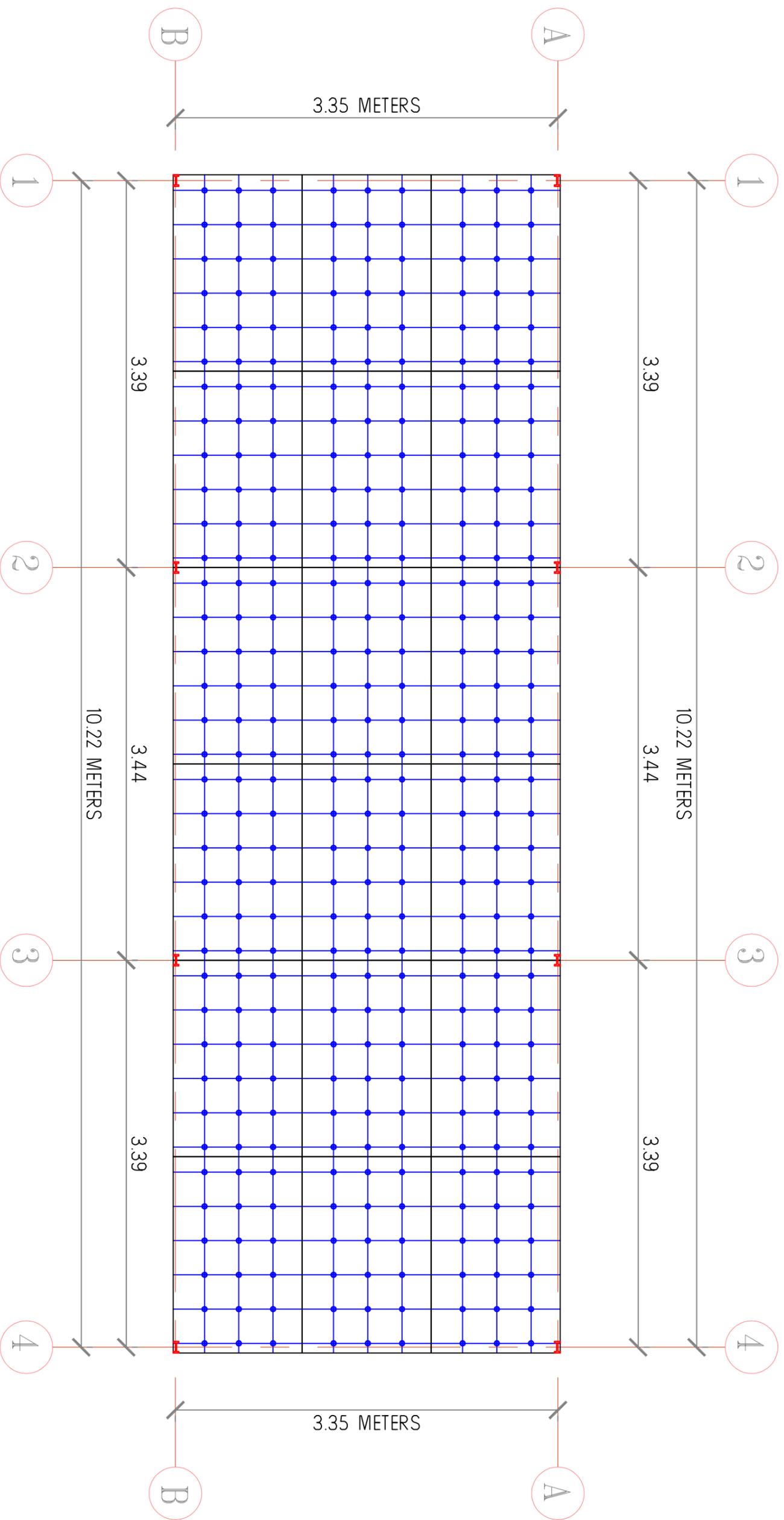
SCALE

N.T.S



Project name	Solar system project 4th Mashrou landing in Al- Mukalla		Scale:	Fit
Submit to	EXPERTISE FRANCE GROUPE AFD		Date:	23/05/2024
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		Chart Type:	Structural
Plate name	ROOF FRAMING PLAN		Pag no:	018





مسقط الطاقة الشمسية

SOLAR PANELS PLAN

SCALE

N.T.S



Project name
Submit to
Prepared submitted by
Plate name

Solar system project 4th Mashrou landing in Al- Mukalla
EXPERTISE FRANCE GROUPE AFD
Modern Arab Constructions - MAC for Engineering & Contracting
SOLAR PANELS PLAN

Scale:
Date:
Chart Type:
Pag no:

Fit
23/05/2024
Structural
019

Our location Main Street Al Salam Zone – Near to Mukalla Post Off. Mukalla City - Hadramout

E-mail

mac.mukalla@gmail.com

Contacts

05/301661-967735549108 - 967776857665

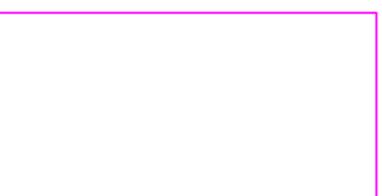


MAC
للهندسة والبناء
for Engineering & Contracting



IPe100 THK4.mm

IPe100 THK4.mm



TUBE 100 * 50 * 2



Project name	Solar system project 4th Mashrou landing in Al- Mukalla		Scale:	Fit
Submit to	EXPERTISE FRANCE GROUPE AFD		Date:	23/05/2024
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		Chart Type:	Structural
Plate name	Sections of Steel Structure for Mounting the Panels		Pag no:	020



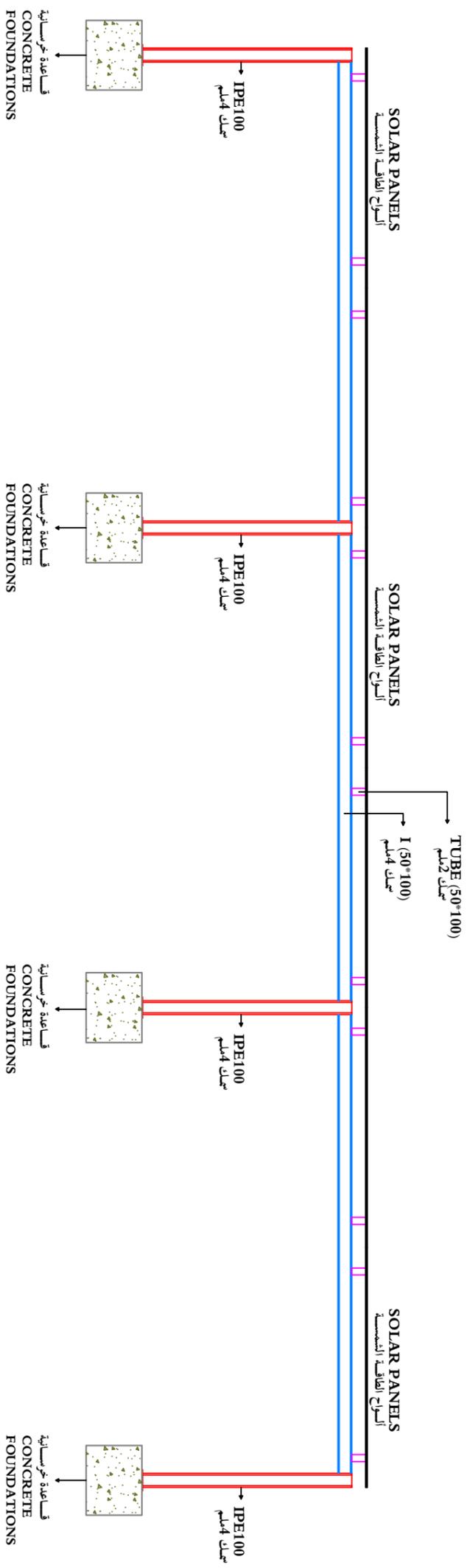
Our location Main Street Al Salam Zone – Near to Mukalla Post Off. Mukalla City - Hadramout

E-mail

mac.mukalla@gmail.com

Contacts

05/301661-967735549108 - 967776857665



SCALE

N.T.S

واجهة أمامية للهيكل الحامل للألواح STEEL STRUCTURE FRONT SIDE



Project name	Solar system project 4th Mashrou landing in Al- Mukalla		
Submit to	EXPERTISE FRANCE GROUPE AFD		
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		
Plate name	STEEL STRUCTURE FRONT SIDE		

Scale:	Fit
Date:	23/05/2024
Chart Type:	Structural
Pag no:	021

Our location Main Street Al Salam Zone – Near to Mukalla Post Off. Mukalla City - Hadramout

E-mail

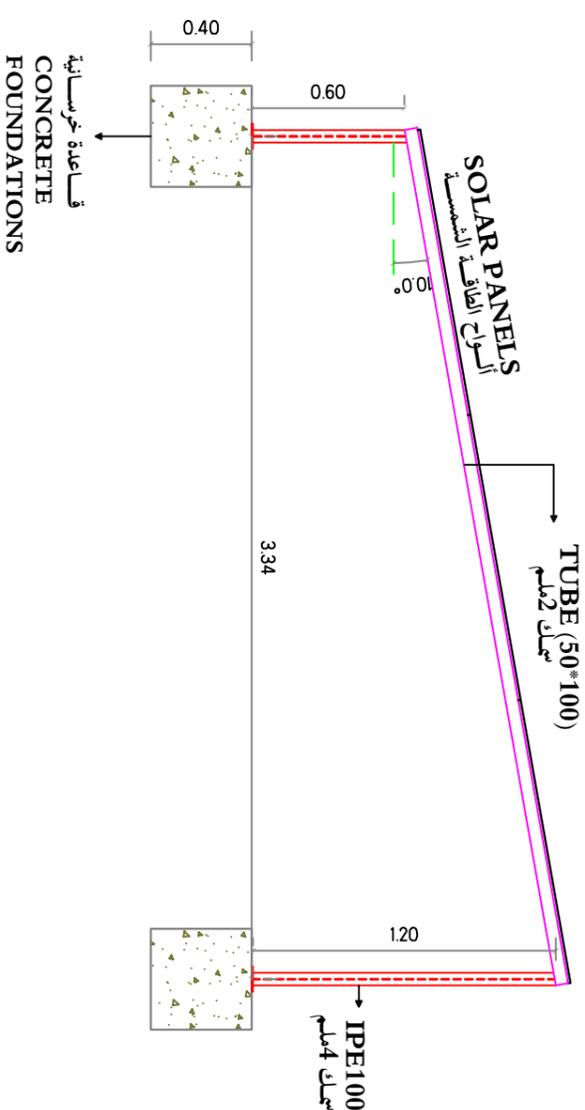
mac.mukalla@gmail.com

Contacts

05/301661-967735549108 - 967776857665



المهندسة والcontracting
for Engineering & Contracting

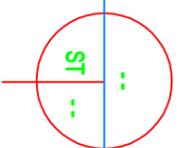


واجهة جانبية للهيكل الحامل للألواح

STEEL STRUCTURE RIGHT SIDE

SCALE

N.T.S



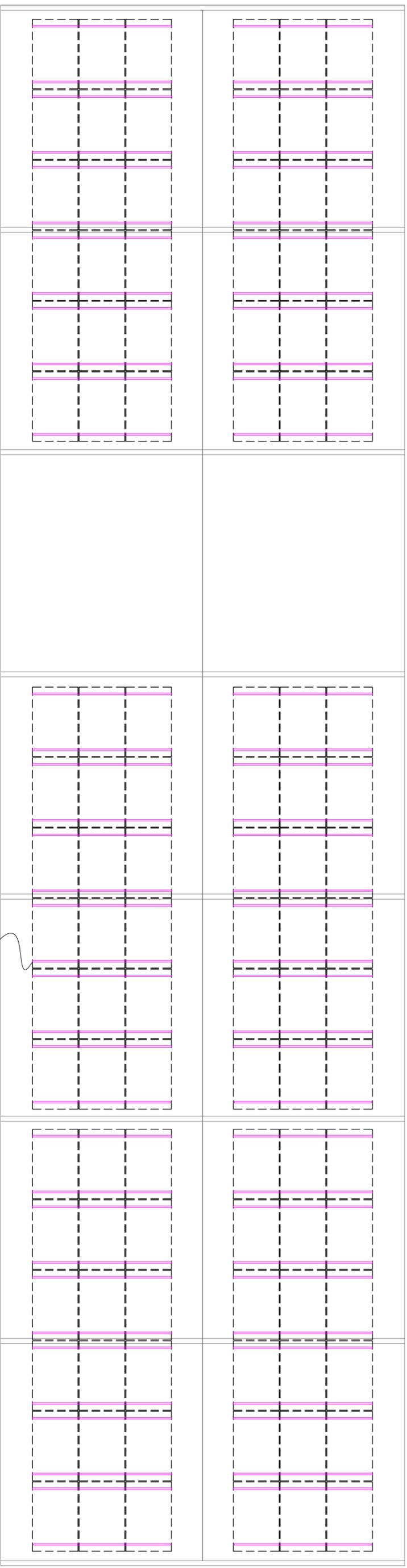
Project name	Solar system project 4th Mashrou landing in Al- Mukalla		
Submit to	EXPERTISE FRANCE GROUPE AFD		
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		
Plate name	STEEL STRUCTURE FRONT SIDE	Chart Type:	Structural
		Pag no:	022

Scale: Fit

Date: 23/05/2024

Chart Type: Structural

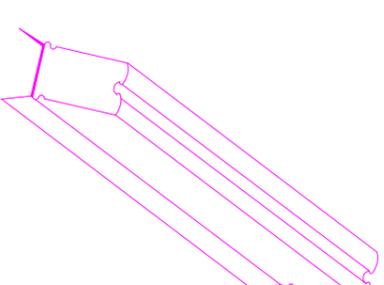
Pag no: 022



مسقط الجسور ROOF FRAMING PLAN

SCALE

N.T.S



شكل قطع الألوมิเนียม
Aluminium section



**EXPERTISE
FRANCE**
GROUPE AFD

Project name Solar system project 4th Mashrou landing in Al- Mukalla
Submit to EXPERTISE FRANCE GROUPE AFD
Prepared submitted by Modern Arab Constructions - MAC for Engineering & Contracting
Plate name ROOF FRAMING PLAN - Roof 4-9

Scale: Fit
Date: 23/05/2024
Chart Type: Electricity
Pag no: 023



المهندسة والمقاولات
for Engineering & Contracting

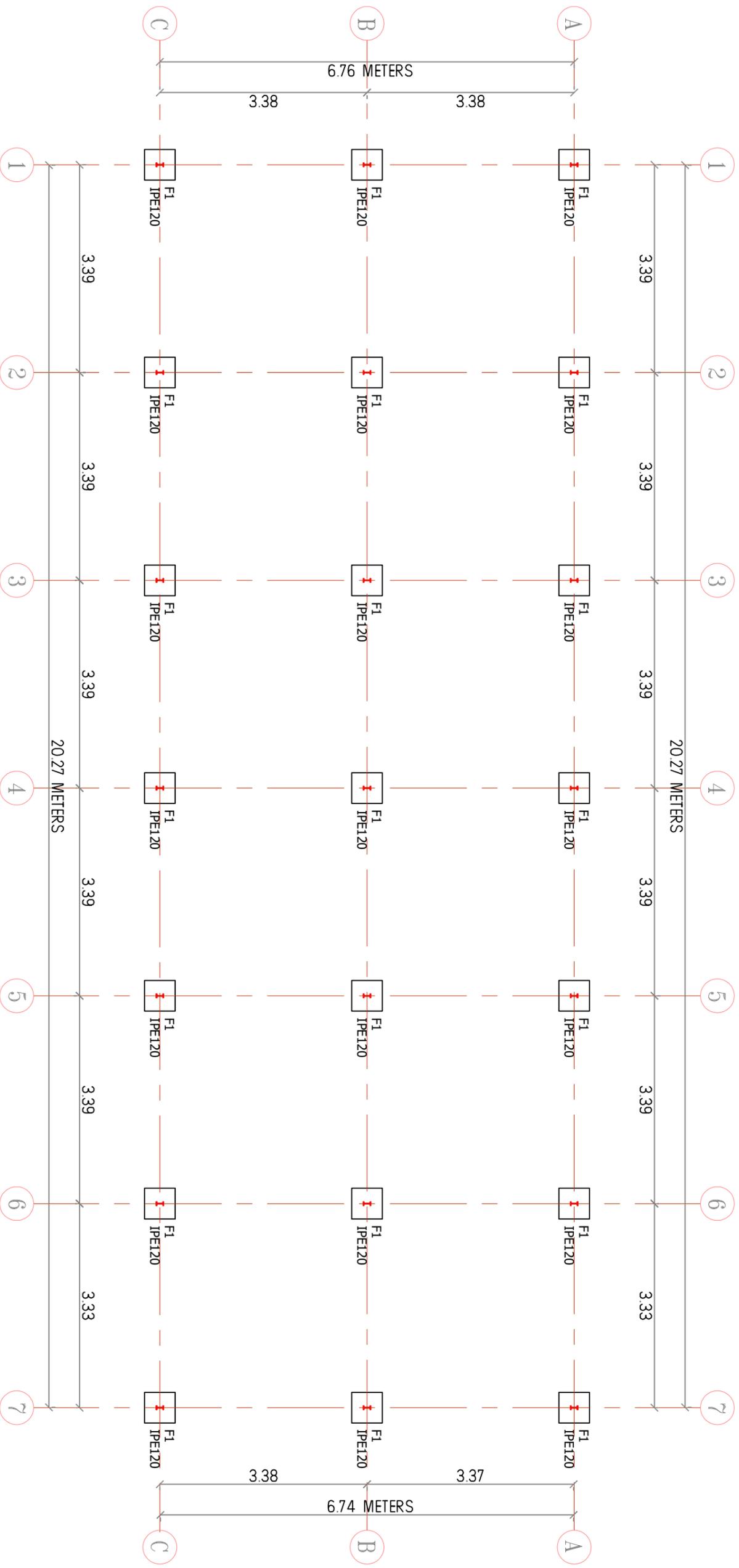
Our location Main Street Al Salam Zone – Near to Mukalla Post Off. Mukalla City - Hadramout

E-mail

mac.mukalla@gmail.com

Contacts

05/301661-967735549108 - 967776857665



ملاحظات
F1
0.50M X 0.50M
Depth 0.40M
5Ø12 mm bottom in
both direction



ملاحظات
F1
0.50M X 0.50M
عمق 0.40M
سفلي 5Ø12mm./m' في الاتجاهين

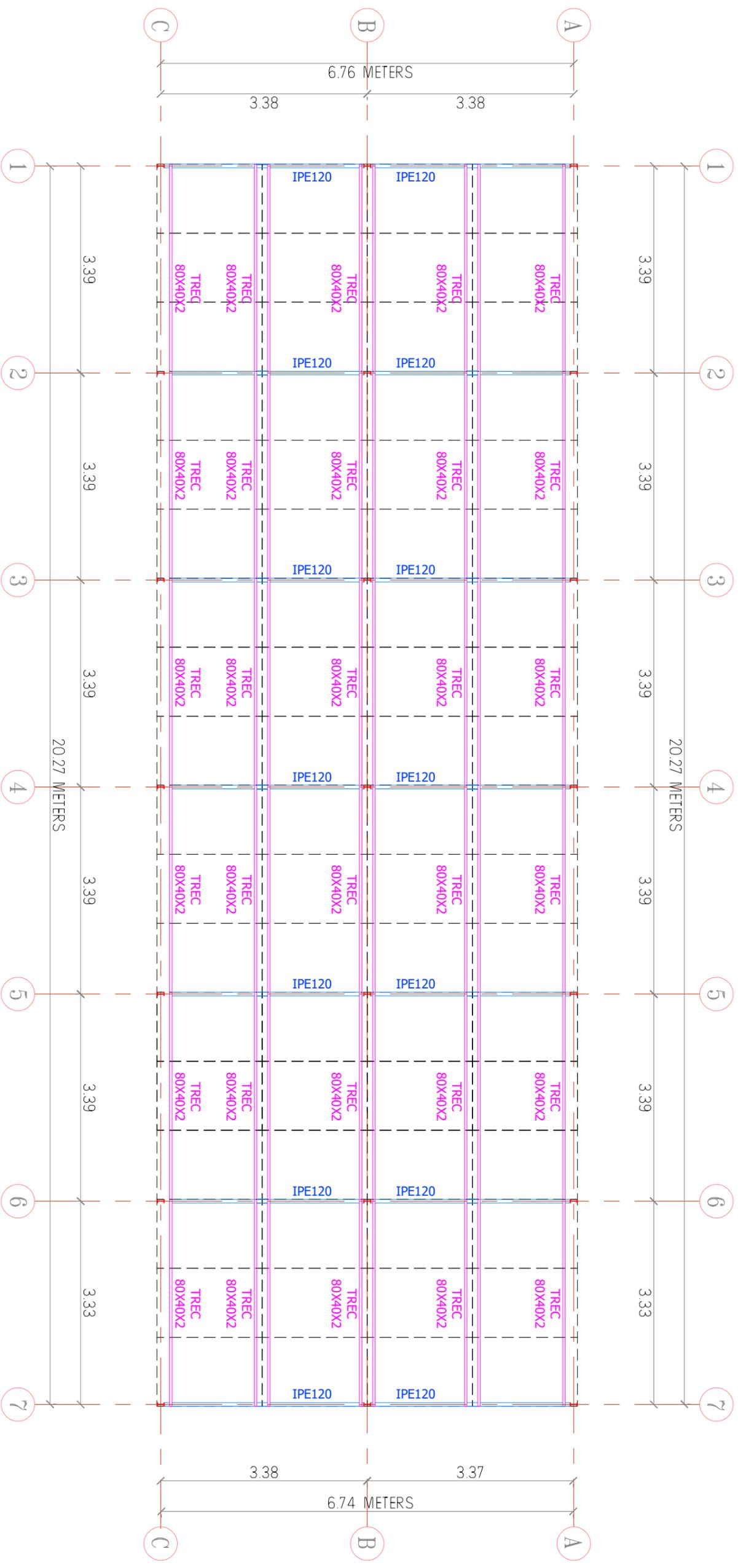


Project name	Solar system project 4th Mashrou landing in Al- Mukalla		
Submit to	EXPERTISE FRANCE GROUPE AFD		
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		
Plate name	FOUNDATIONS & COLUMNS PLAN - Ground 2		

Scale:	Fit
Date:	23/05/2024
Chart Type:	Structural
Pag no:	024



الشركة والمقاولات
 for Engineering & Contracting



مساحة الجسور
ROOF FRAMING PLAN

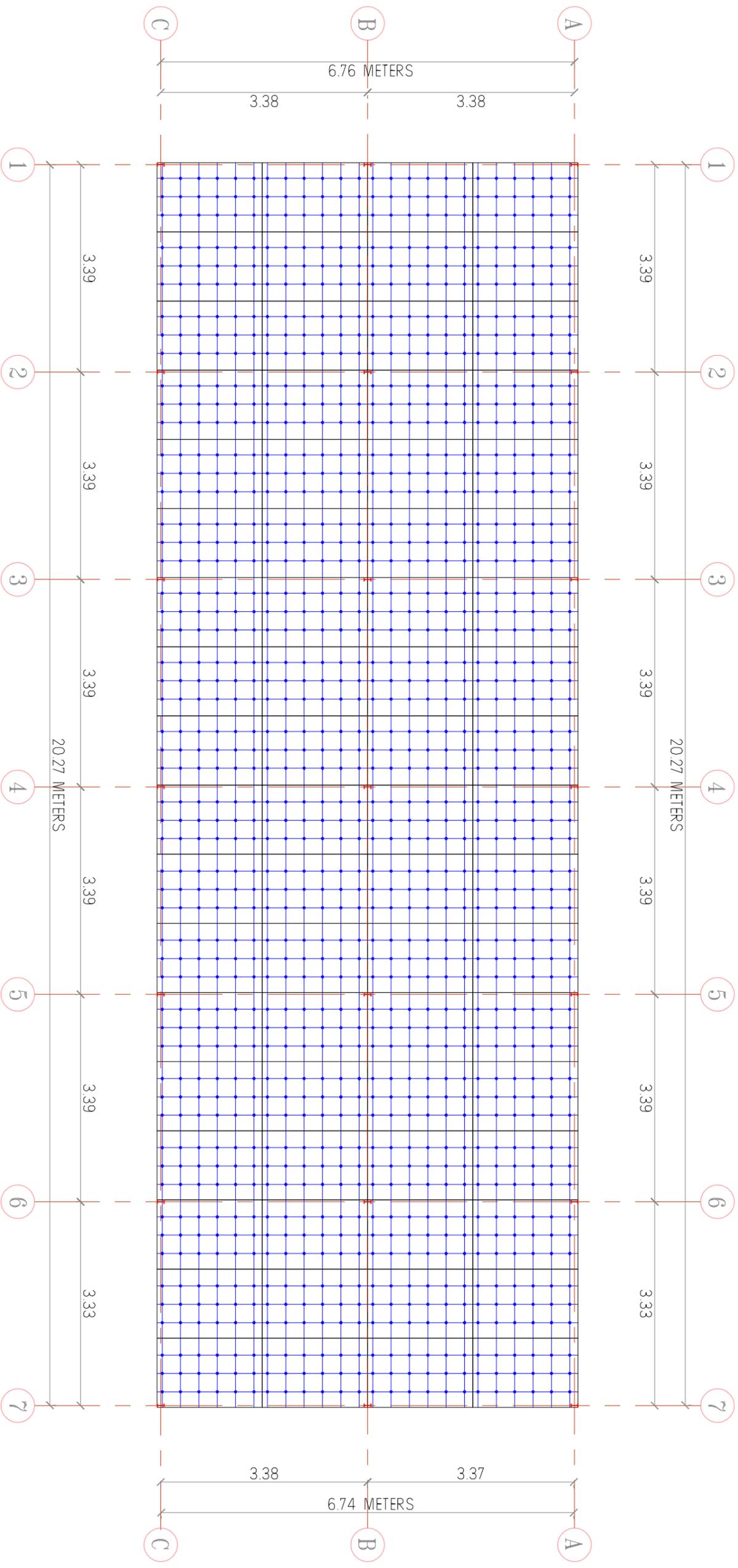
SCALE
1:100M.



Project name	Solar system project 4th Mashrou landing in Al- Mukalla
Submit to	EXPERTISE FRANCE GROUPE AFD
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting
Plate name	ROOF FRAMING PLAN - Ground 2
Scale:	Fit
Date:	23/05/2024
Chart Type:	Structural
Pag no:	025



for Engineering & Contracting



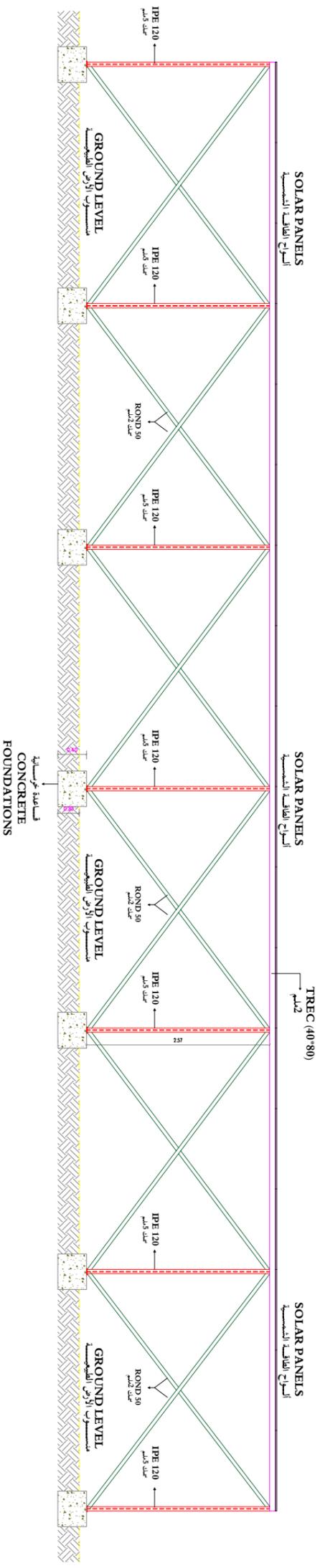
مسقط الطاقة الشمسية
SOLAR PANELS PLAN
 SCALE 1:100M



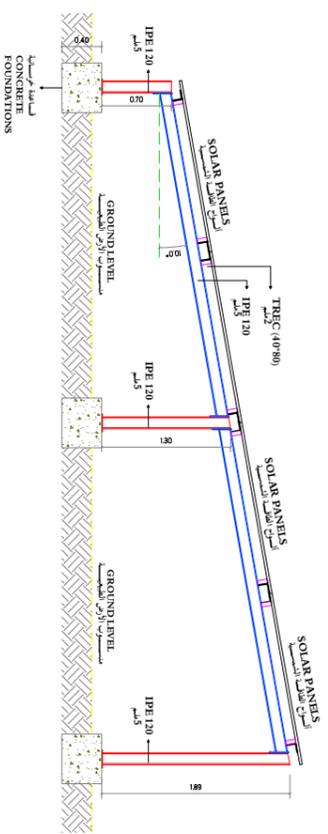
Project name	Solar system project 4th Mashrou landing in Al- Mukalla		
Submit to	EXPERTISE FRANCE GROUPE AFD		
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		
Plate name	SOLAR PANELS PLAN - Ground 2		
Scale:	Fit		
Date:	23/05/2024		
Chart Type:	Structural		
Pag no:	026		



المهندسة والمقاولات
 for Engineering & Contracting



واجهة أمامية الهيكل الحامل للألواح
STEEL STRUCTURE FRONT SIDE
 SCALE 1:100M



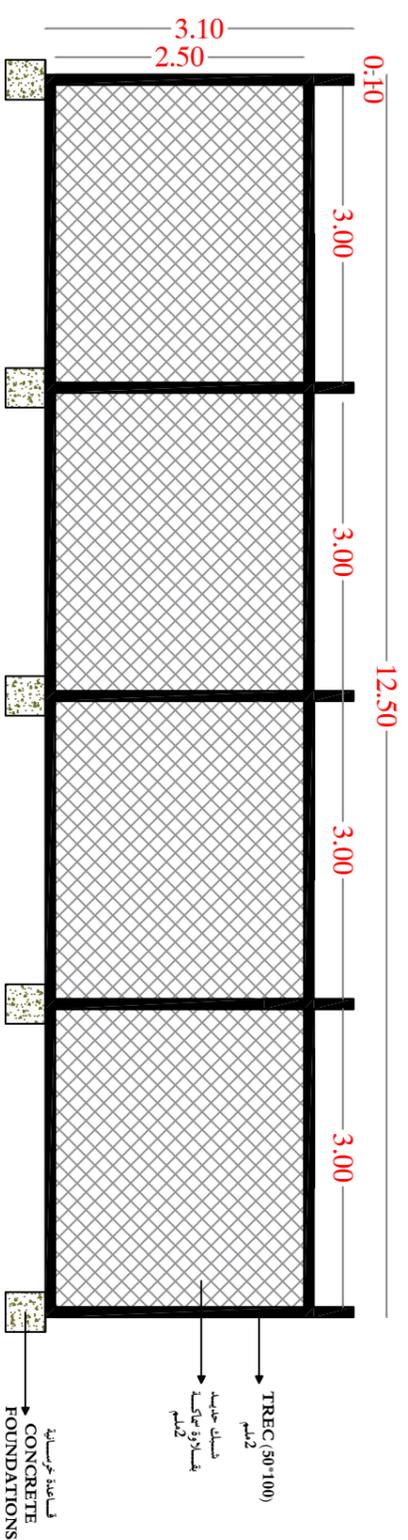
واجهة جانبية الهيكل الحامل للألواح
STEEL STRUCTURE RIGHT SIDE
 SCALE 1:100M



Project name	Solar system project 4th Mashrou landing in Al- Mukalla		
Submit to	EXPERTISE FRANCE GROUPE AFD		
Prepared submitted by	Modern Arab Constructions - MAC for Engineering & Contracting		
Plate name	STEEL STRUCTURE RIGHT SIDE - Ground 2	Chart Type:	Structural
		Pag no:	027



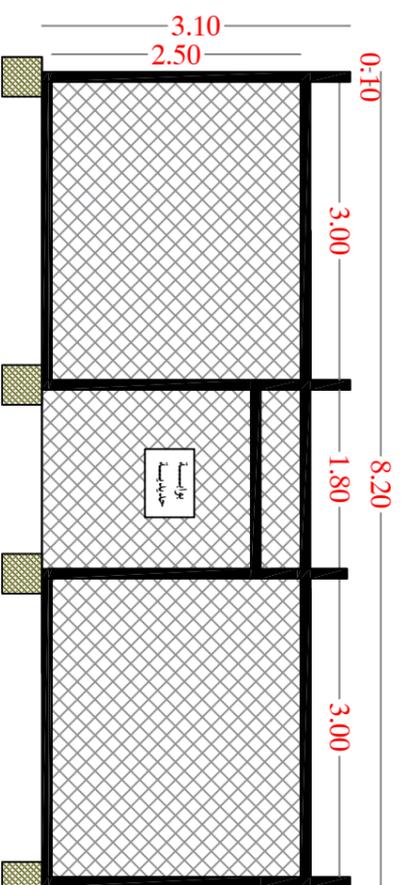
Our location Main Street Al Salam Zone – Near to Mukalla Post Off. Mukalla City - Hadramout E-mail mac.mukalla@gmail.com Contacts 05/301661-967735549108 - 967776857665



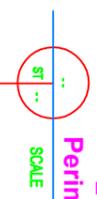
واجهة أسبسية لتسيح شبكة الحماية للوقع الأرضي 2
Perimeter Fencing Protection FRONT SIDE Ground 1



1:100M



واجهة جانبية لتسيح شبكة الحماية للوقع الأرضي 2
Perimeter Fencing Protection RIGHT SIDE Ground 1

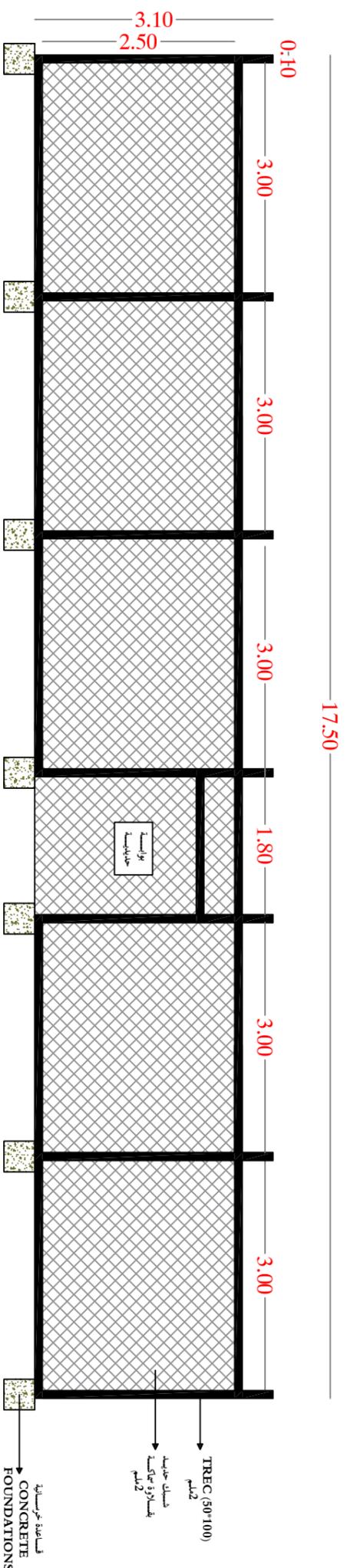


1:100M



0.40

0.40

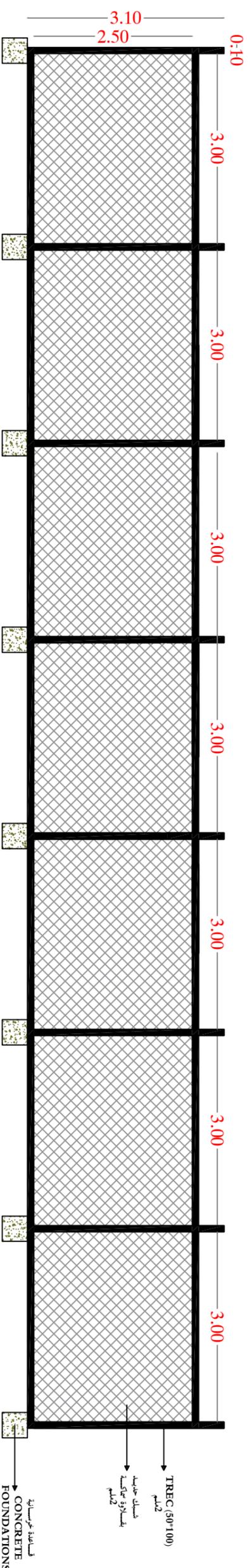


واجهة أسامية لشباج شبك الحماية للموقع الأرضي 2
Perimeter Fencing Protection FRONT SIDE Ground 2

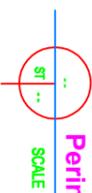


1:100M

21.80



واجهة جانبية لشباج شبك الحماية للموقع الأرضي 2
Perimeter Fencing Protection RIGHT SIDE Ground 2



1:100M



Project name
Submit to
Prepared submitted by
Plate name

Solar system project 4th Mashrou landing in Al- Mukalla
EXPERTISE FRANCE GROUPE AFD
Modern Arab Constructions - MAC for Engineering & Contracting
Facades- Ground 2

Scale:
Date:
Chart Type:
Pag no:

Fit
23/05/2024
Structural
029



Our location Main Street Al Salam Zone – Near to Mukalla Post Off. Mukalla City - Hadramout

E-mail

mac.mukalla@gmail.com

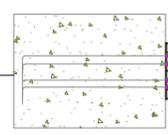
Contacts

05/301661-967735549108 - 967776857665



ملاحظات
F
0.60M X 0.60M
عمق 0.80M
سفلي 5Ø14mm
في الإنجماهين

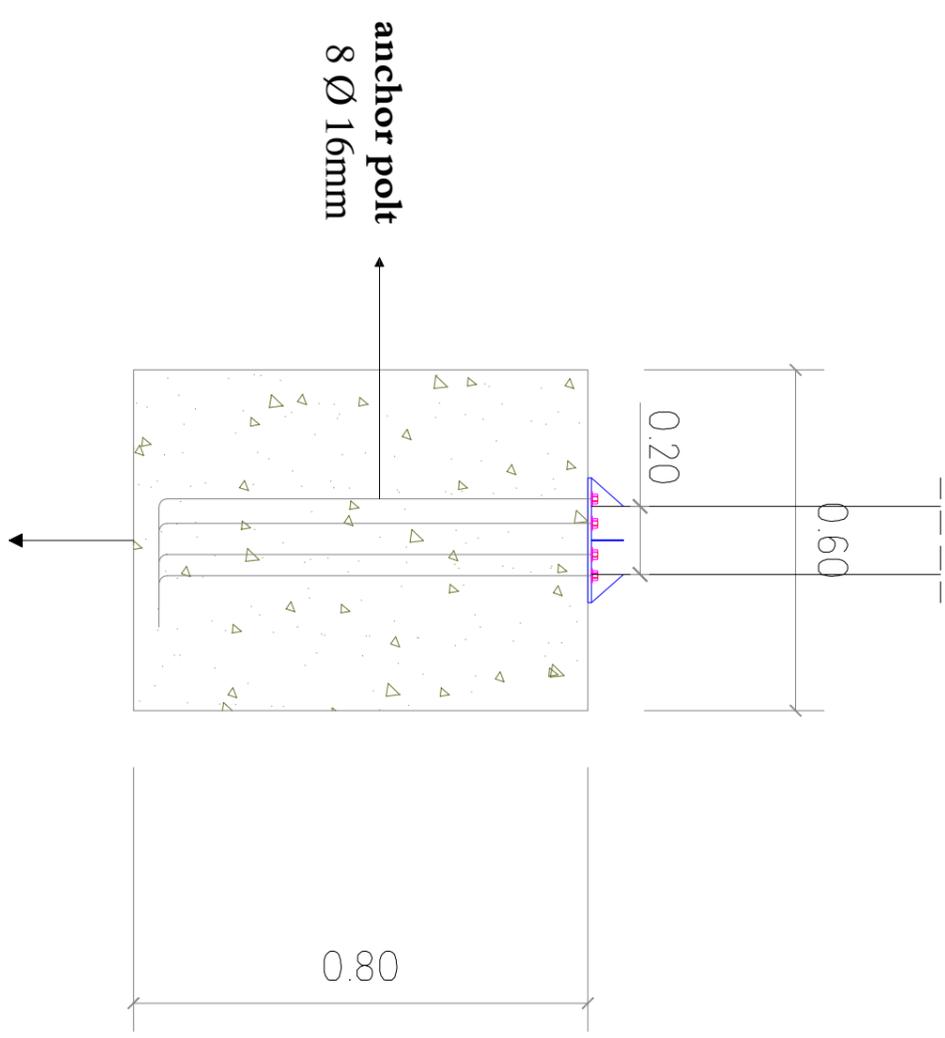
قاعدة خرسانية
CONCRETE
FOUNDATIONS



تفصيلة عمود الإنارة Detail of the lighting pole

SCALE

1:100M.



قاعدة خرسانية CONCRETE FOUNDATIONS



Project name
Submit to
Prepared submitted by
Plate name

Solar system project 4th Mashrou landing in Al- Mukalla
EXPERTISE FRANCE GROUPE AFD
Modern Arab Constructions - MAC for Engineering & Contracting
Detail of the lighting pole

Scale:
Date:
Chart Type:
Pag no:

