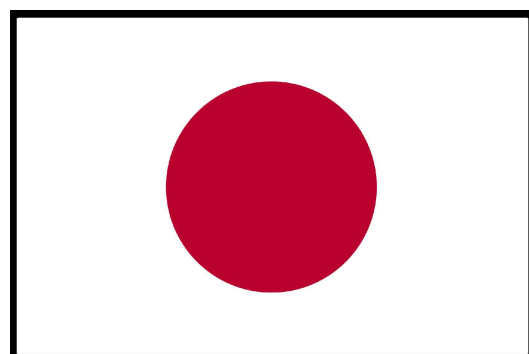




Empowered lives.
Resilient nations.

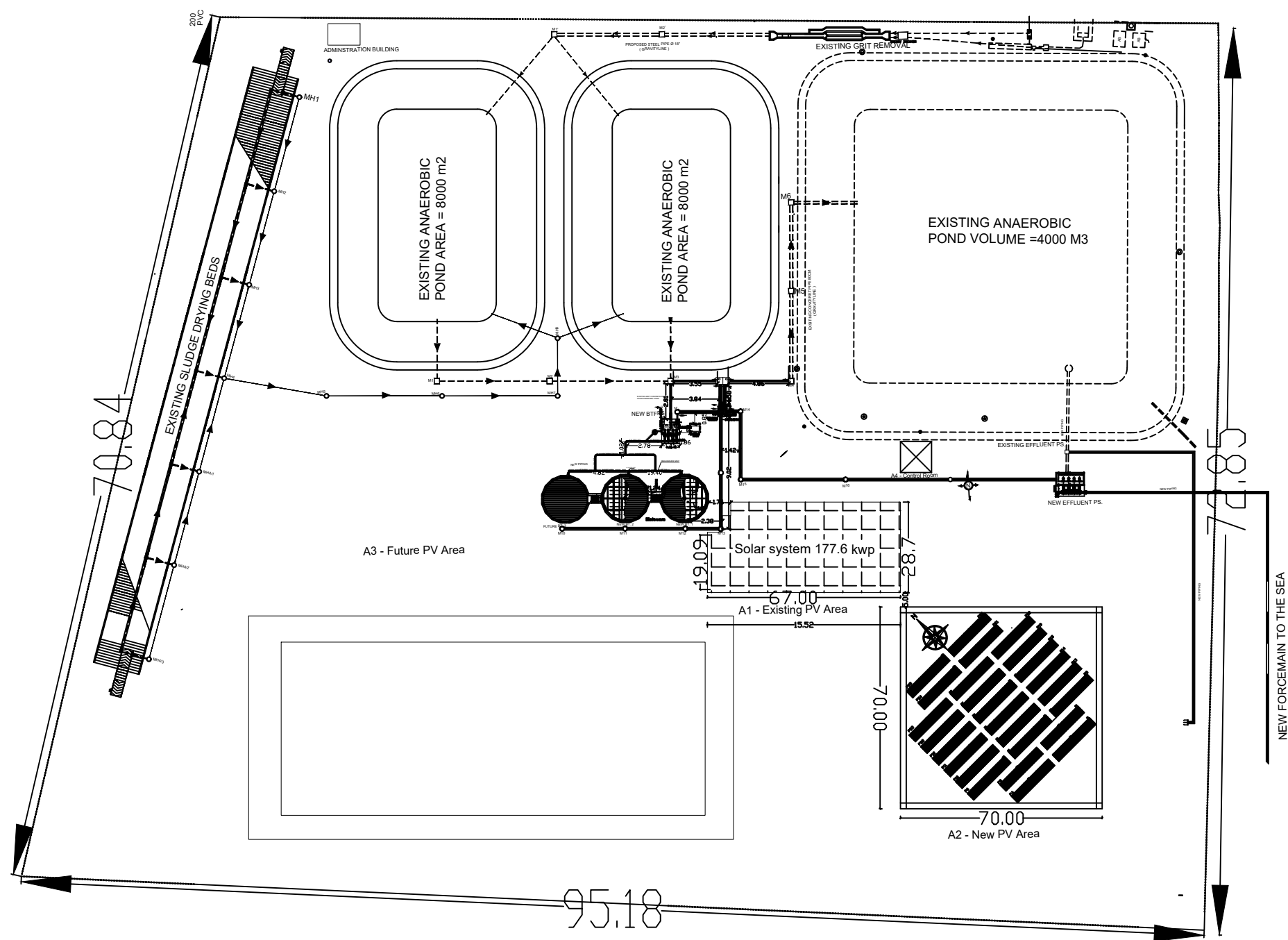
Construction of Solar System for wastewater treatment and post treatment Plants in Rafah

FUNDED BY
Government of Japan

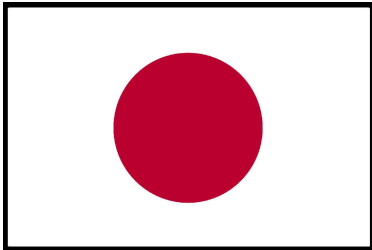
CLIENT:
Ministry Of Agriculture
and the Coastal Municipalities Water Utility

EMPLOYER
United Nations Development Programme
Programme of Assistance to the Palestinian People
UNDP/PAPP

MAY 2018



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GRAPHIC SCALE 0 1 2 3 4

NO	DATE	ENG	REVISIONS

CLIENT:



Ministry Of Agriculture
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EMPLOYER:



United Nations Development Programme
Programme of Assistance to the Palestinian People
UNDP/PAPP

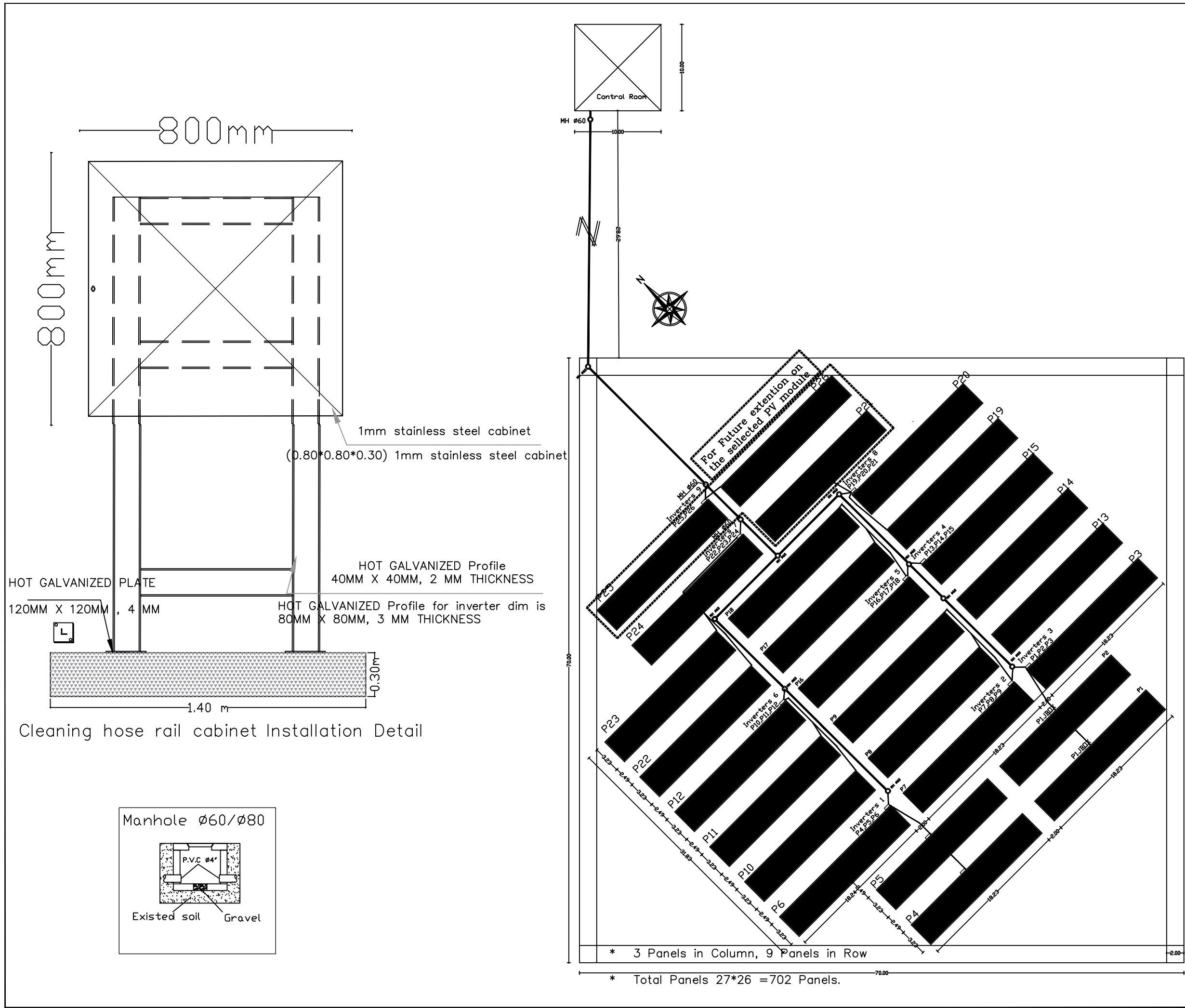
PROJECT TITLE:

Solar System for Waste Water
treatment Plant in Rafah

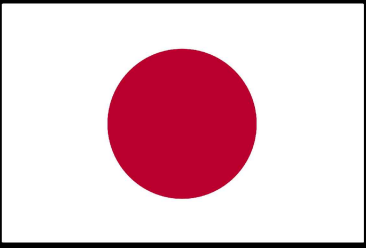
DRAWING TITLE :

General Site layout
Rafah waste water treatment plant

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-0
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		



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GRAPHIC SCALE 0 1 2 3 4

NO	DATE	ENG	REVISIONS

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Ministry Of Agriculture and the Coastal Municipalities Water Utility

EMPLOYER:



United Nations Development Programme
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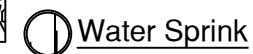
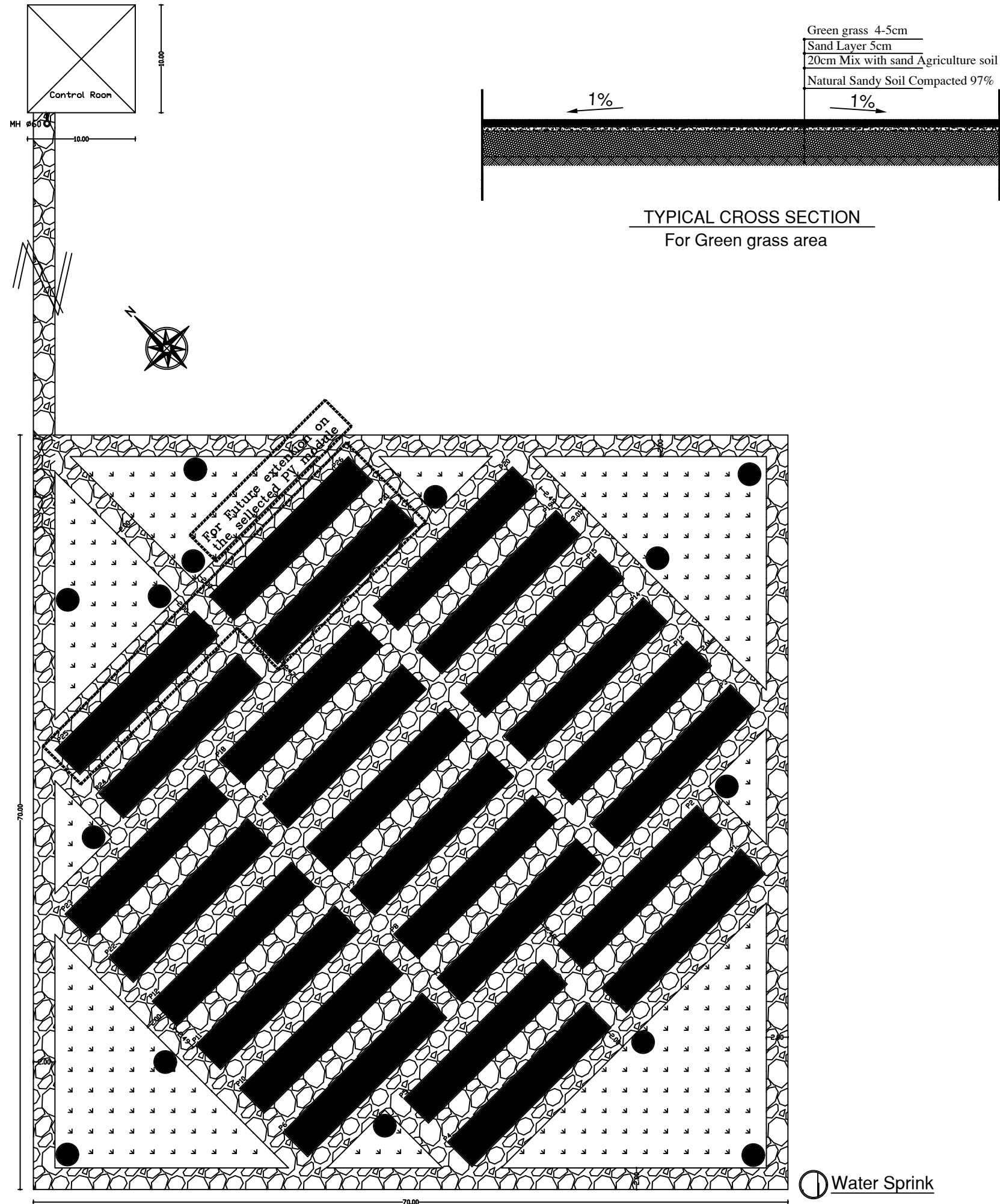
PROJECT TITLE:

Solar System for Waste Water treatment Plant in Rafah

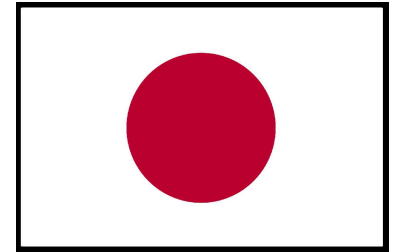
DRAWING TITLE :

PV Mounting Structure
Rafah waste water treatment plant

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-1
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		



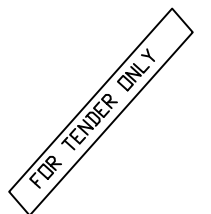
FUNDED BY :



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GRAPHIC SCALE 0 1 2 3 4

NO DATE ENG REVISIONS

CLIENT:



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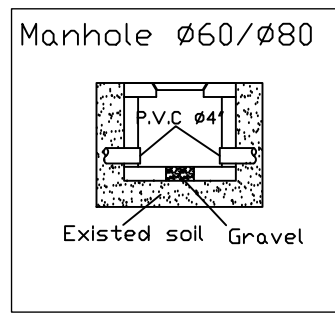
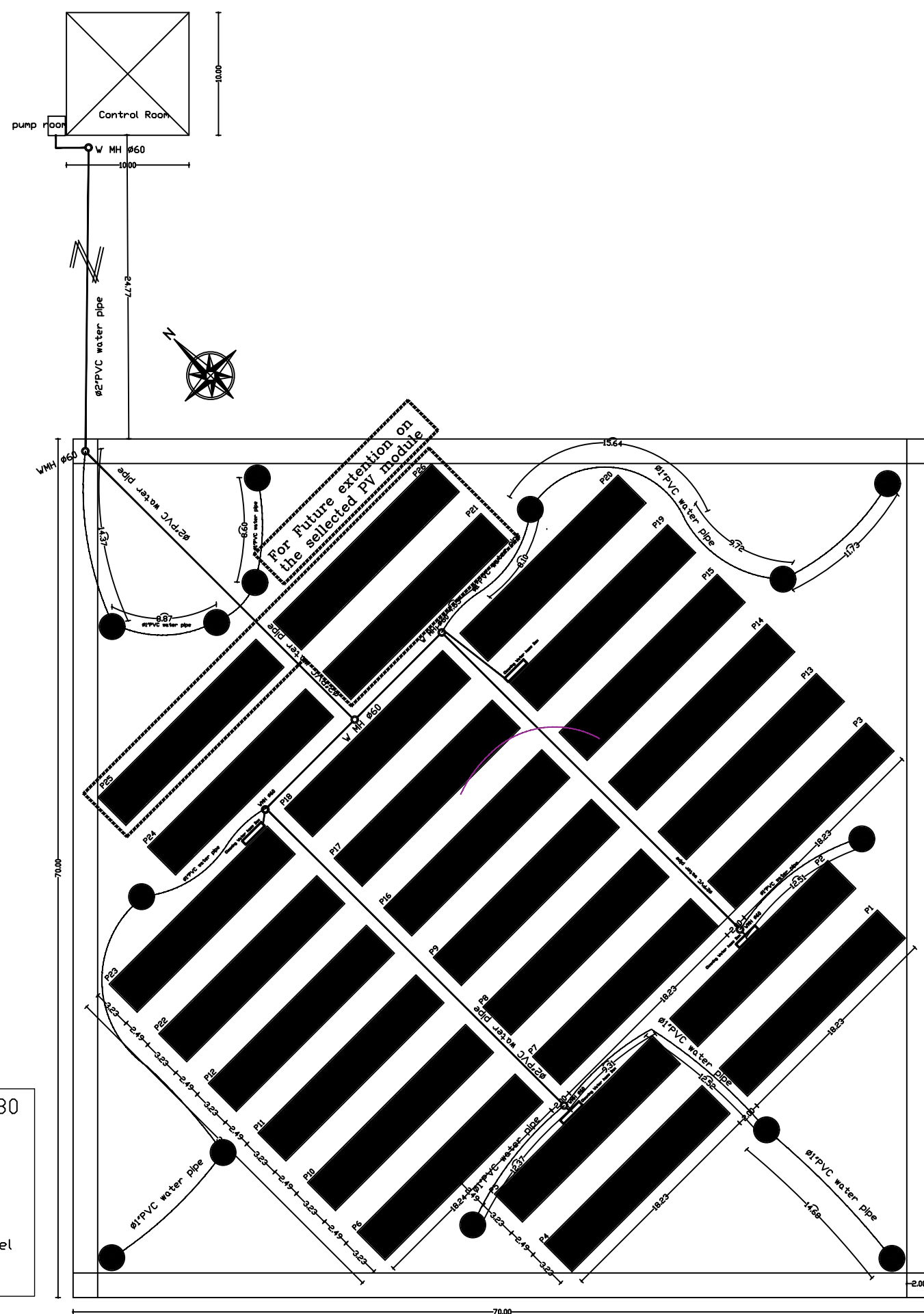
PROJECT TITLE:

Solar System for Waste Water
treatment Plant in Rafah

DRAWING TITLE :

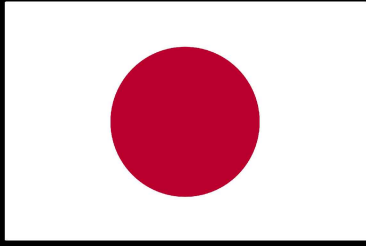
Site Lay out

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-2
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		



● Water Sprink
— Ø1" PVC water pipe

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- FOR TENDER ONLY

GRAPHIC SCALE

0	1	2	3	4
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NO	DATE	ENG	REVISIONS

CLIENT:



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and the Coastal Municipalities Water Utility

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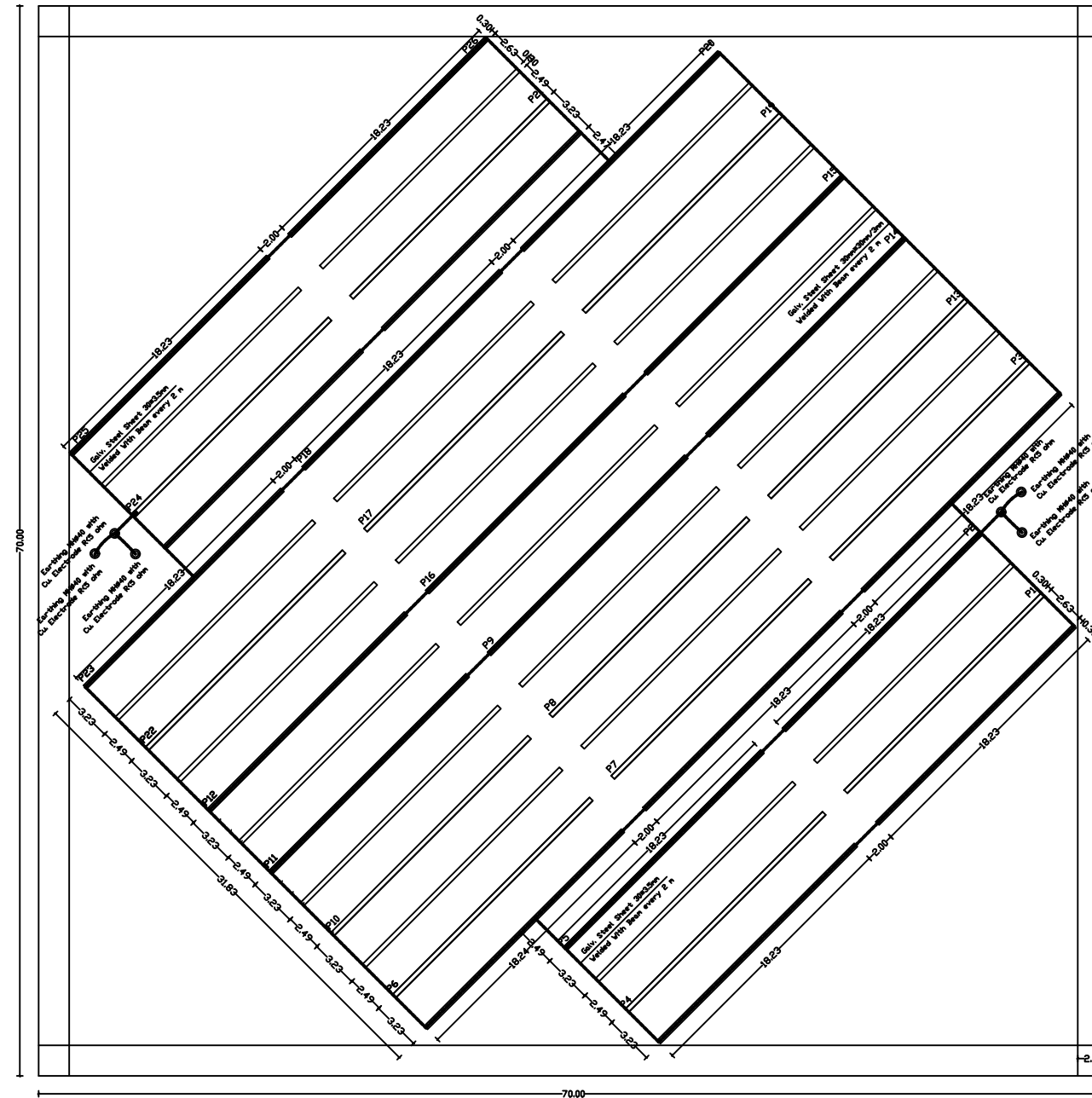
PROJECT TITLE:

Solar System for Waste Water
treatment Plant in Rafah

DRAWING TITLE :

Cleaning water net System

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-3
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		

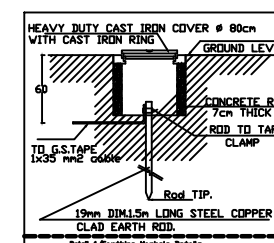
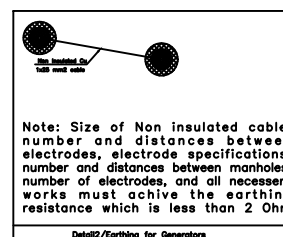


Manhole $\phi 40$



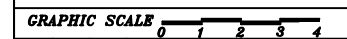
Existed soil

(For Earthing)



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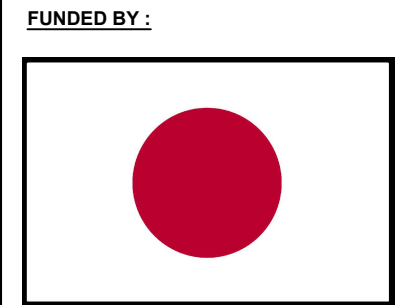
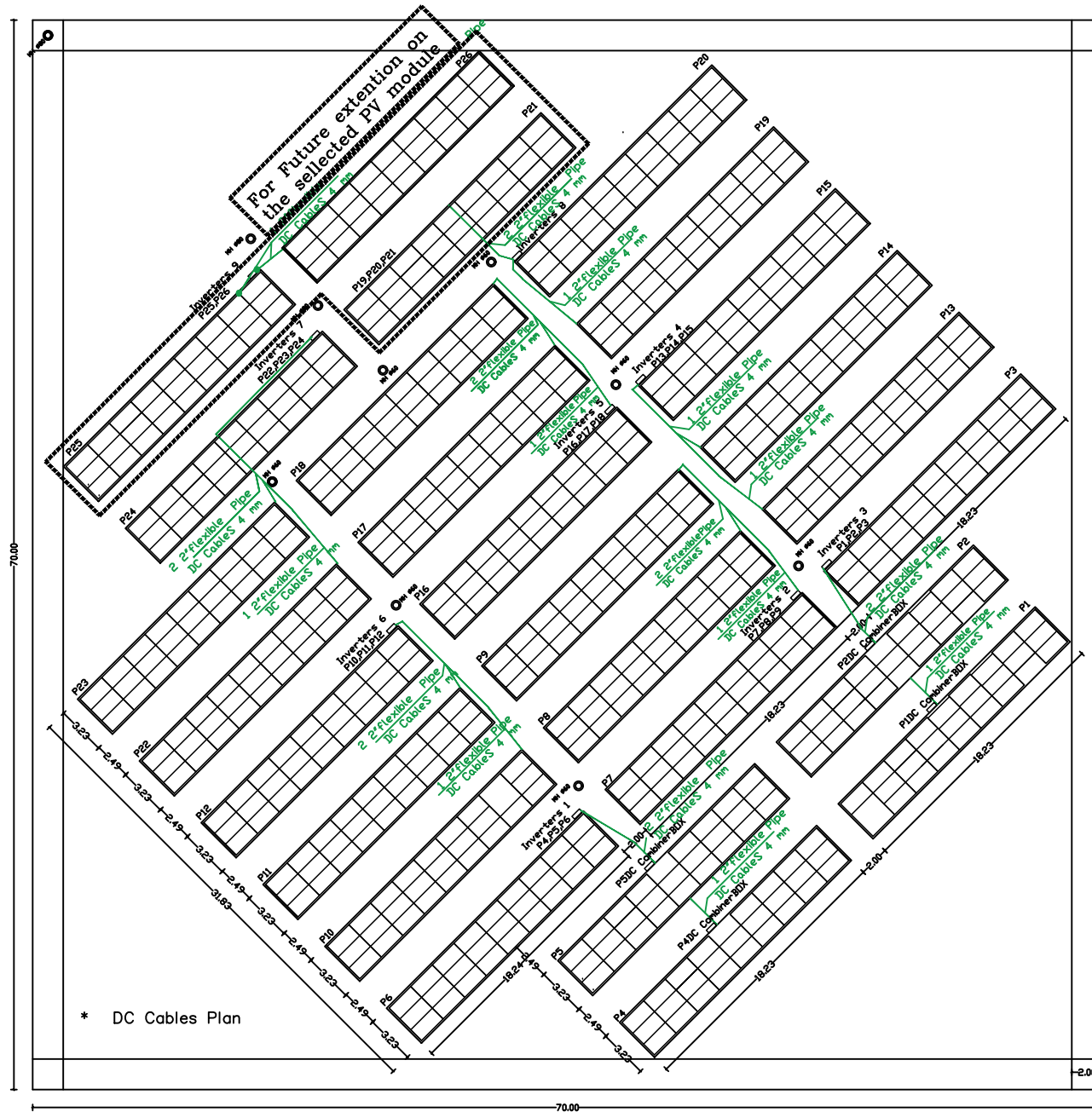
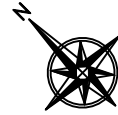
NO	DATE	ENG	REVISIONS



Empowered lives.

Earthing System

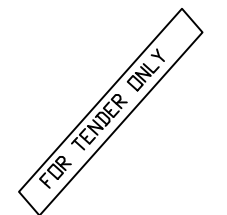
PREPARED BY UNDP	SCALE 1:100	DRAWING NO. PV-4
CHECKED BY UNDP	APPROVED BY UNDP	
DRAWN BY UNDP	DATE May 2018	SERIAL NO. 0/00



Government of Japan

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GRAPHIC SCALE 0 1 2 3 4

NO	DATE	ENG	REVISIONS

CLIENT:



Ministry Of Agriculture
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EMPLOYER:



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UNDP/PAPP

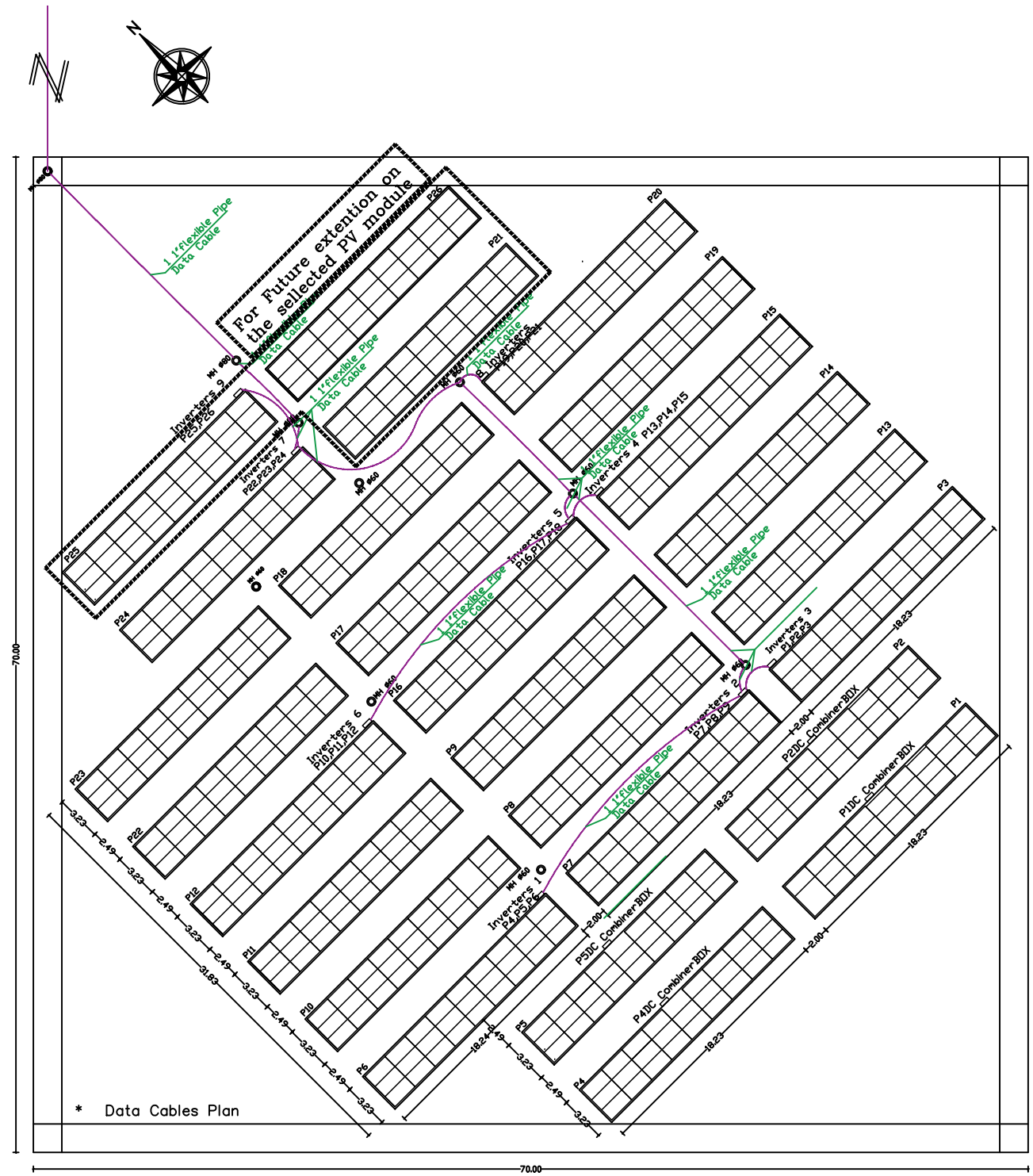
PROJECT TITLE:

Solar System for Waste Water
treatment Plant in Rafah

DRAWING TITLE :

DC Cables Plan

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-6
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		



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GRAPHIC SCALE 0 1 2 3 4

NO	DATE	ENG	REVISIONS

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EMPLOYER:

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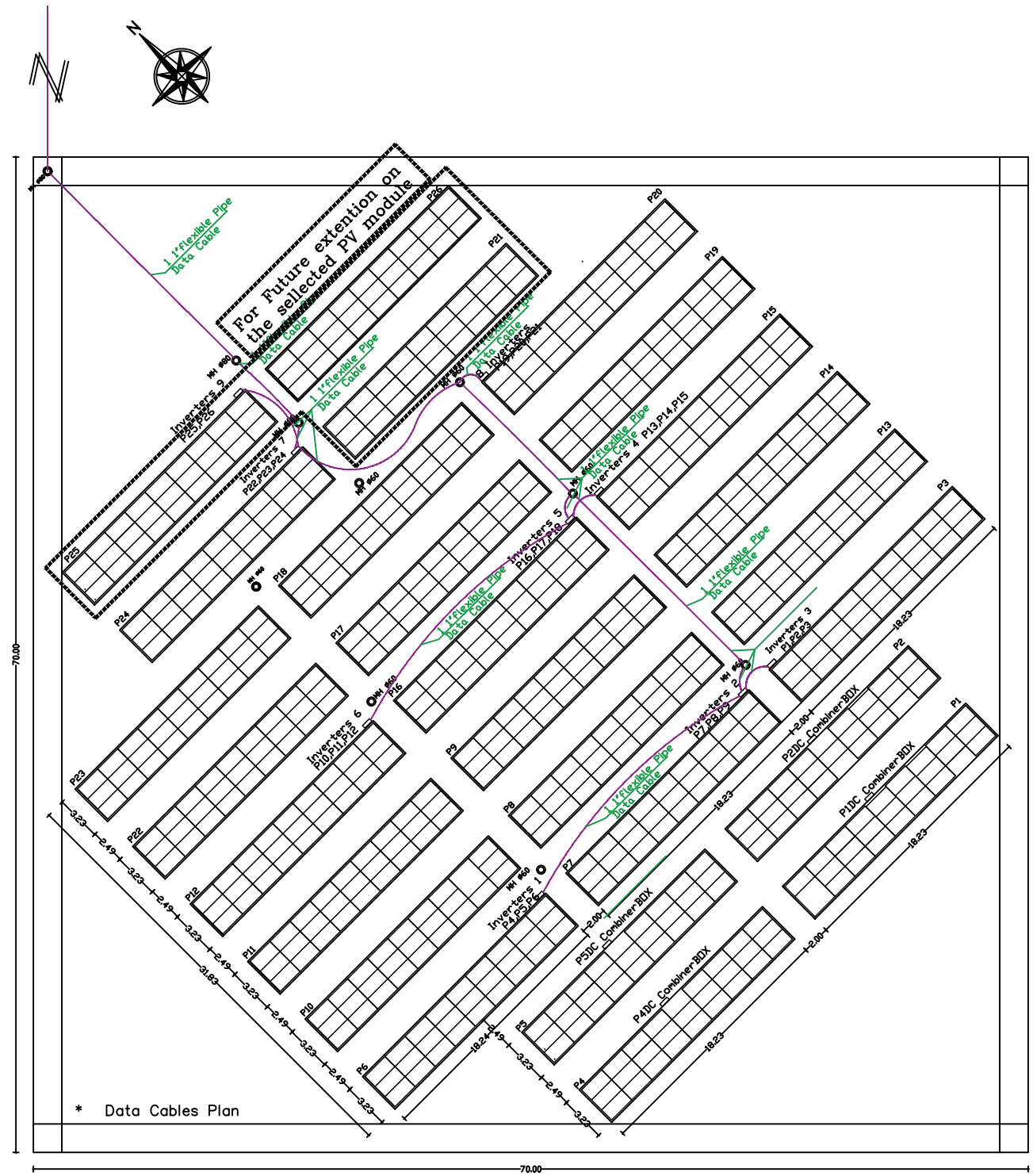
PROJECT TITLE:

Solar System for Waste Water
treatment Plant in Rafah

DRAWING TITLE :

Data Cables Plan

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-7
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		



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GRAPHIC SCALE 0 1 2 3 4

NO	DATE	ENG	REVISIONS

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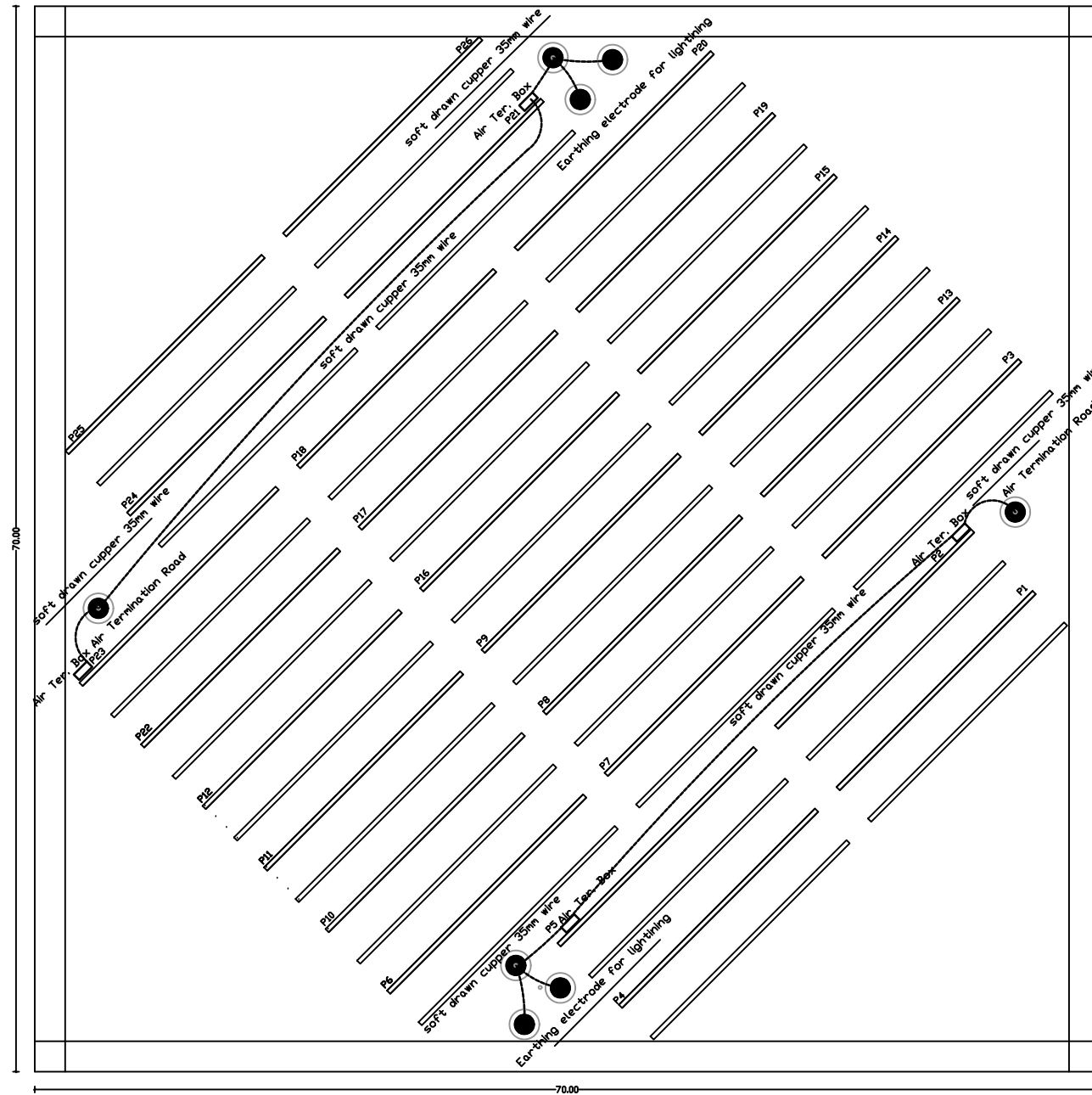
PROJECT TITLE:

Solar System for Waste Water
treatment Plant in Rafah

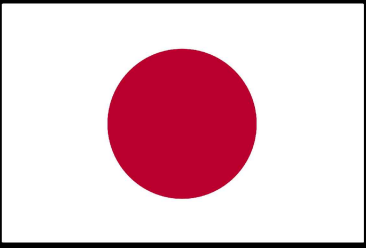
DRAWING TITLE :

Data Cables Plan

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-7
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		



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GRAPHIC SCALE			
0	1	2	3 4
NO	DATE	ENG	REVISIONS

CLIENT:



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EMPLOYER:

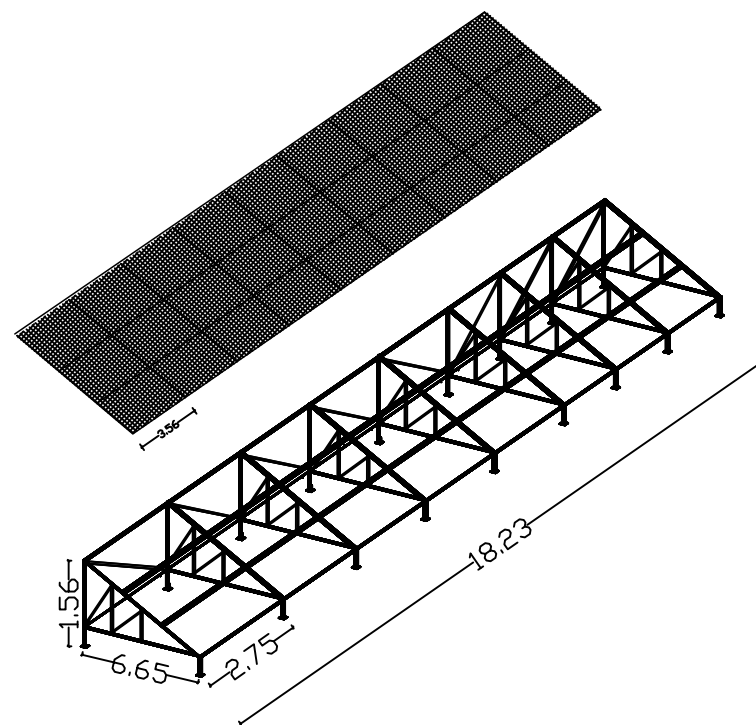
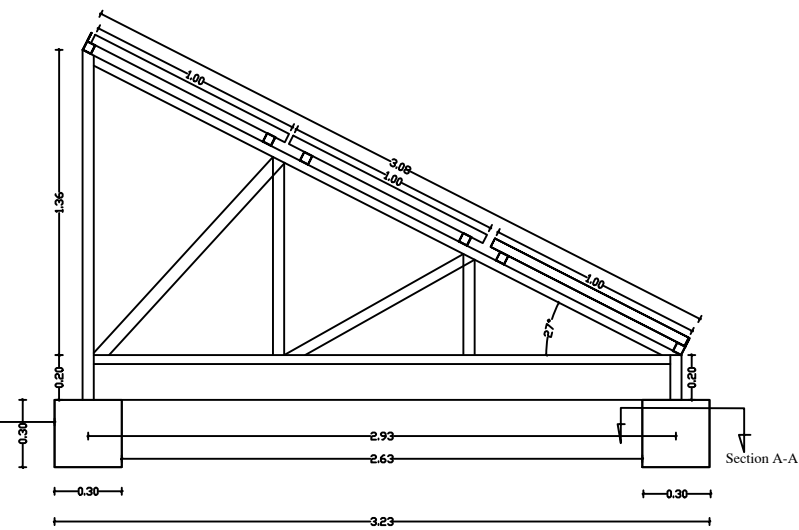
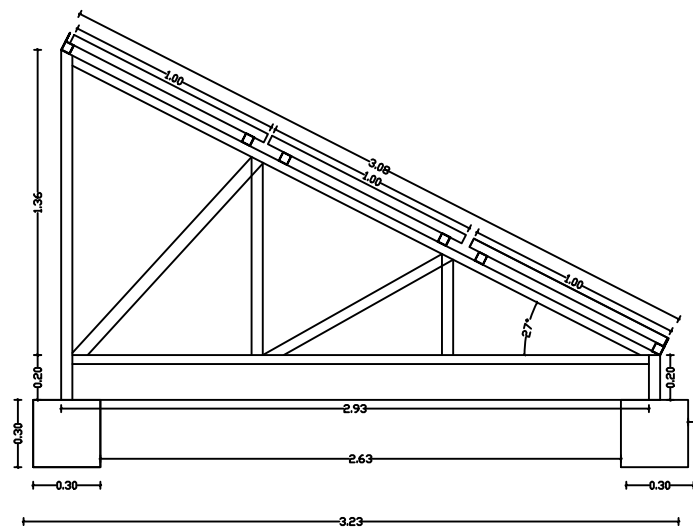


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PROJECT TITLE:

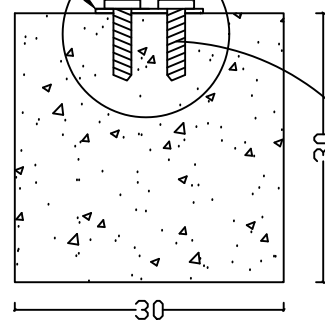
Solar System for Waste Water
treatment Plant in Rafah

DRAWING TITLE :		
lightning and surge protection system		
PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	APPROVED BY	PV-8
DRAWN BY	DATE	SERIAL NO.
UNDP	May 2018	0/00



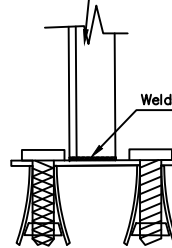
G. STEEL PLATE
120MM X 120MM X 4MM

Anchor bolt 8mm

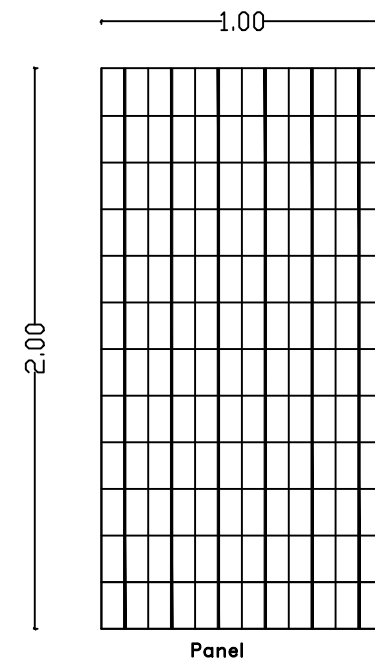


HOT GALVANIZED ANGLE
50MM X 50 MM, 4 MM THICKNESS

Welding Line T=5mm

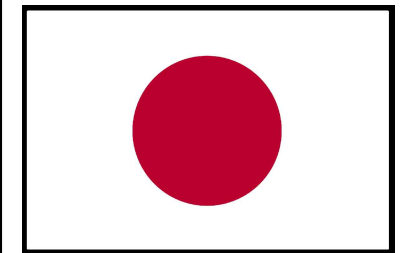


Anchor bolt Detail



Panel

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GRAPHIC SCALE 0 1 2 3 4

NO DATE ENG REVISIONS

CLIENT:



Ministry Of Agriculture
and the Coastal Municipalities Water Utility



EMPLOYER:



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UNDP/PAPP

PROJECT TITLE:

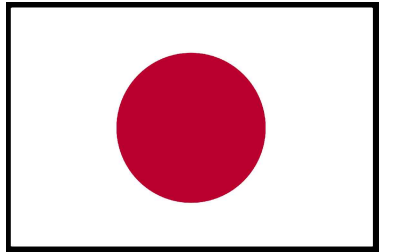
Solar System for Waste Water
treatment Plant in Rafah

DRAWING TITLE :

PV Structure works

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-9
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		

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GRAPHIC SCALE 0 1 2 3 4

NO	DATE	ENG	REVISIONS

CLIENT:



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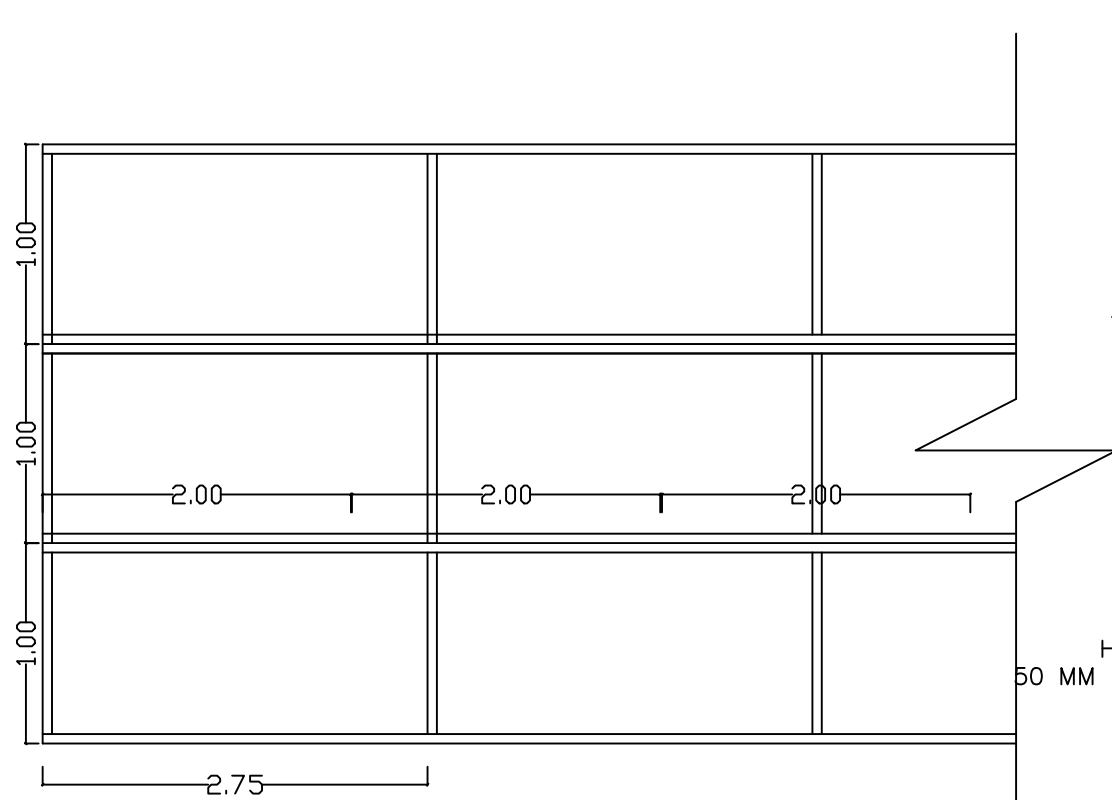
PROJECT TITLE:

Solar System for Waste Water
treatment Plant in Rafah

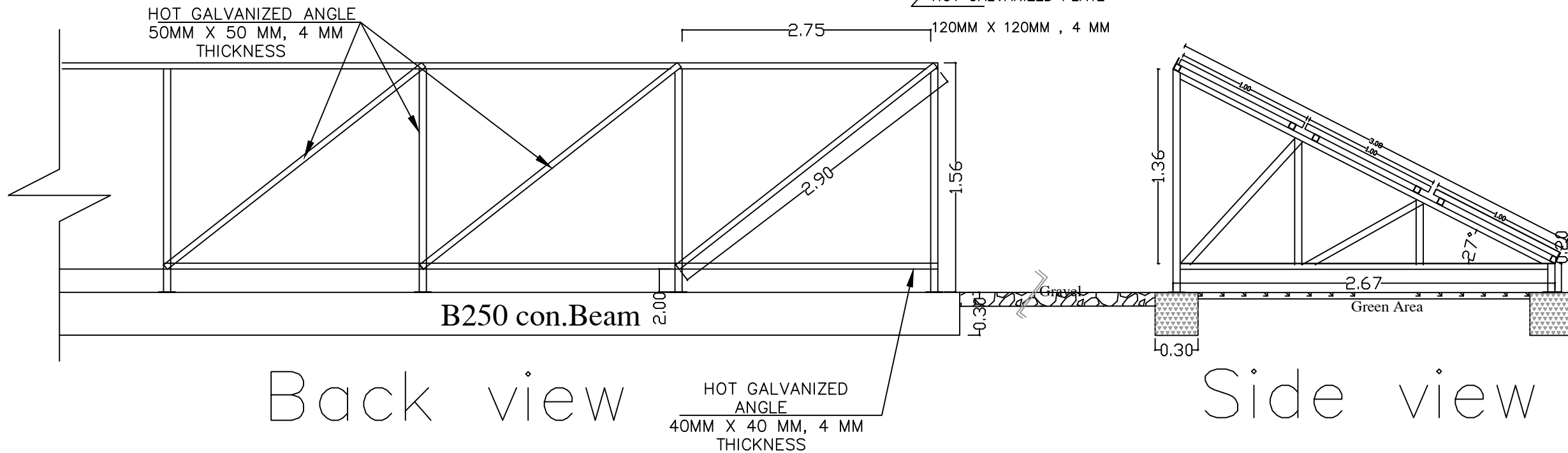
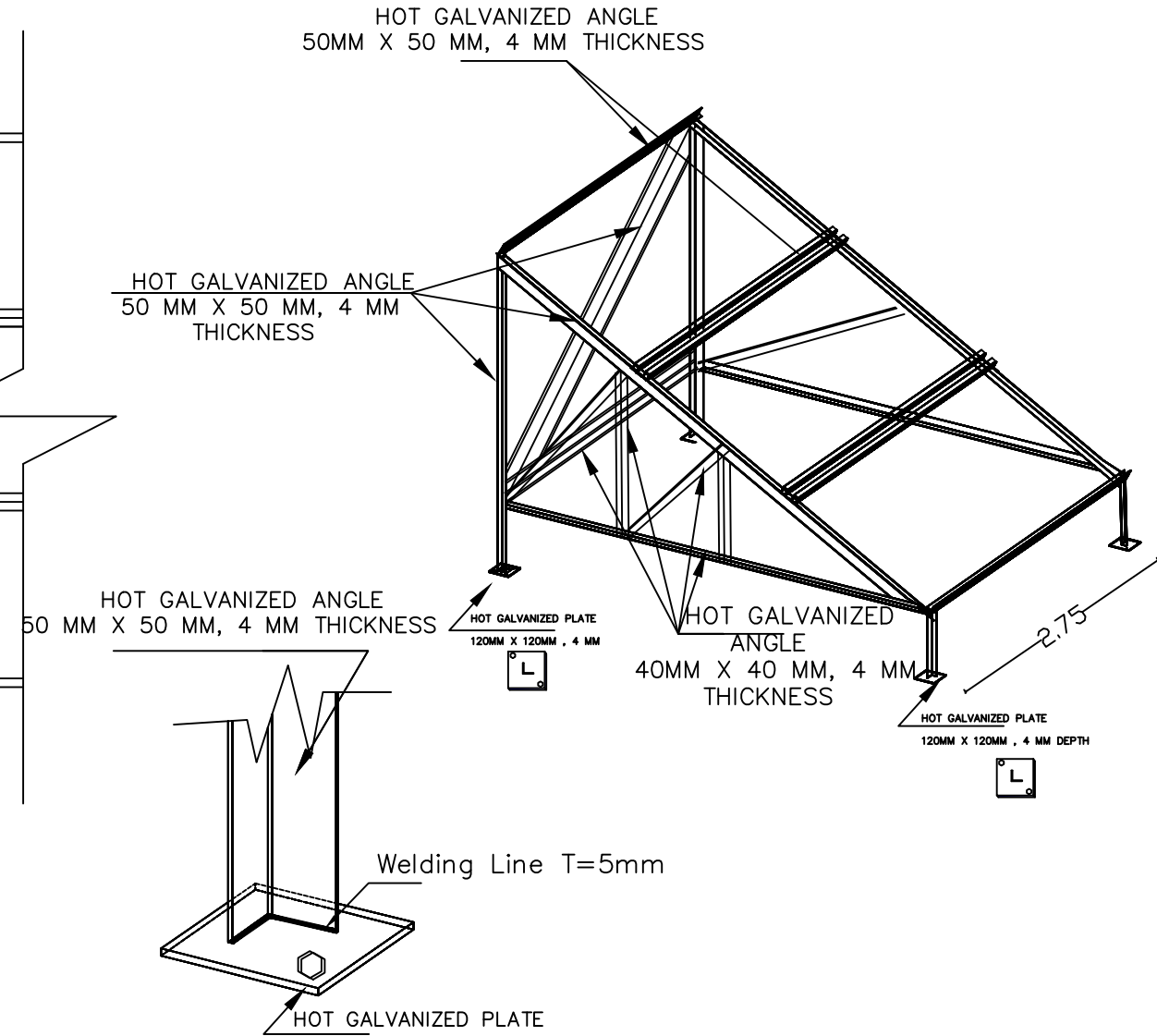
DRAWING TITLE :

PV Structure works

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-10
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		



Plan



Back view

Side view

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GRAPHIC SCALE

NO	DATE	ENG	REVISIONS

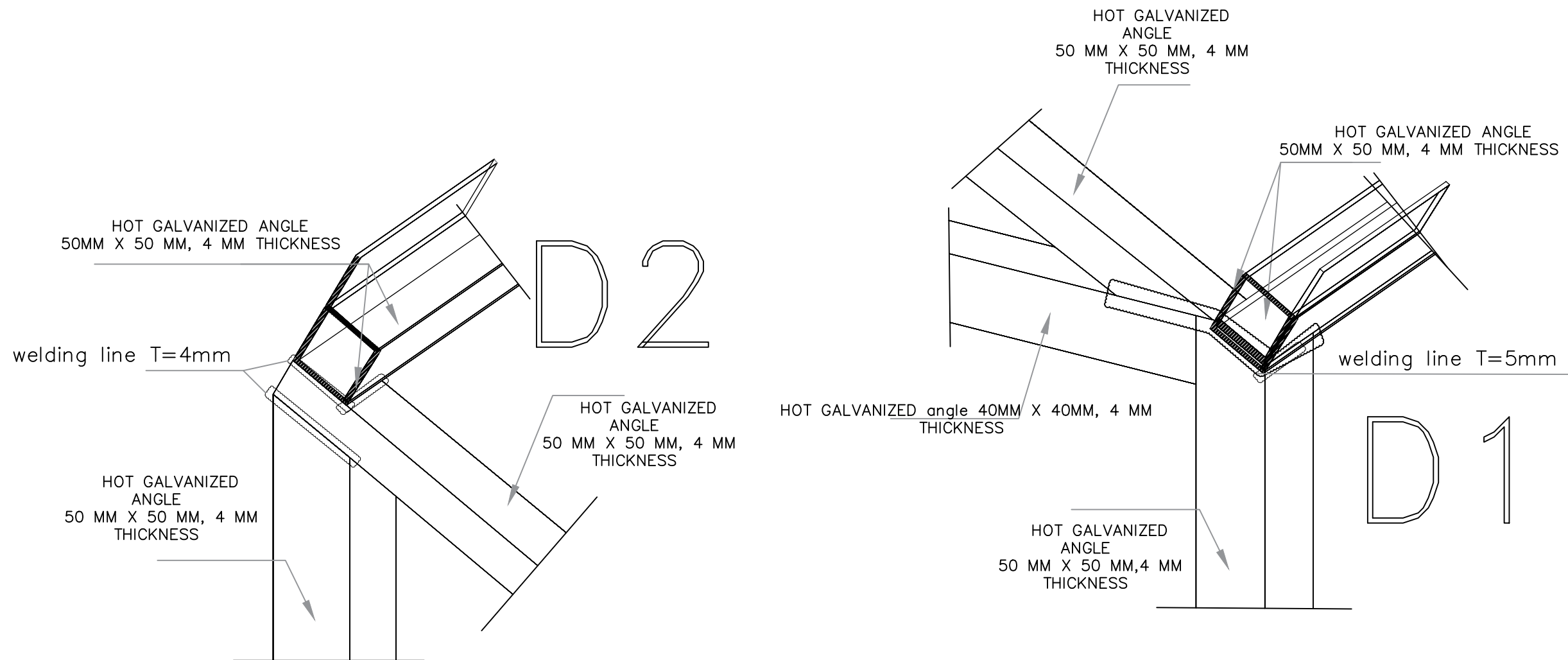


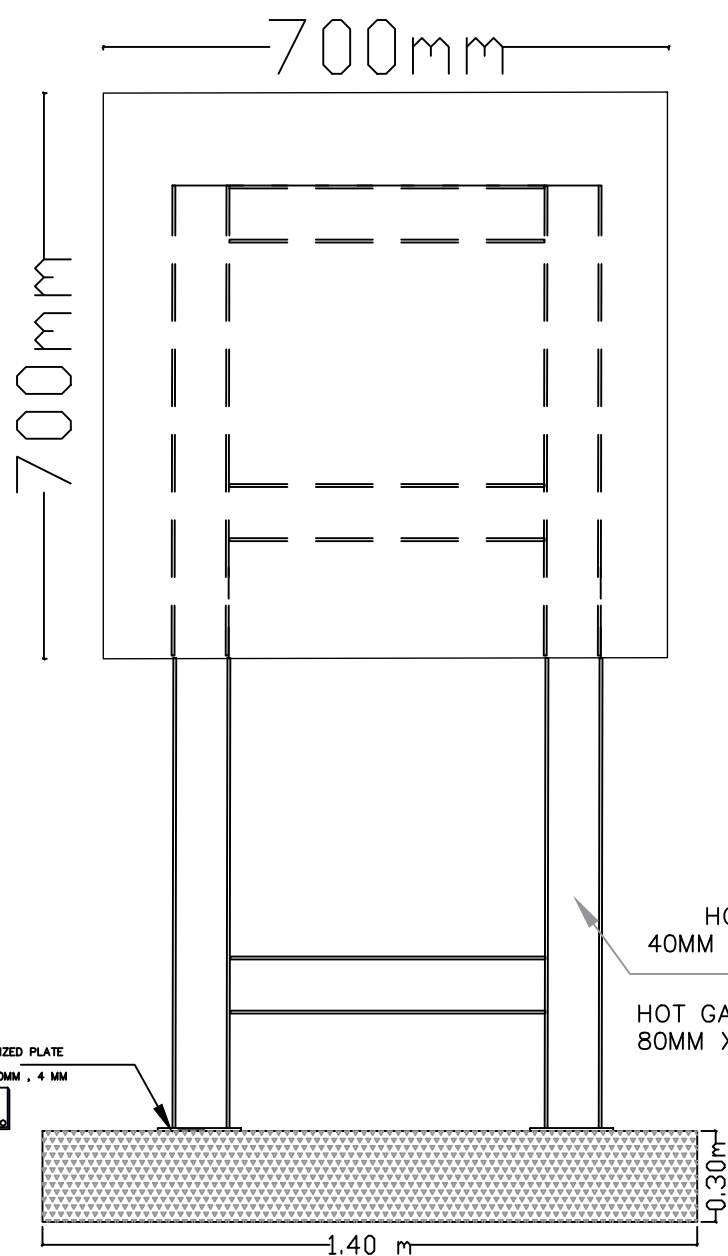
UNDP
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Solar System for Waste Water treatment Plant in Rafah

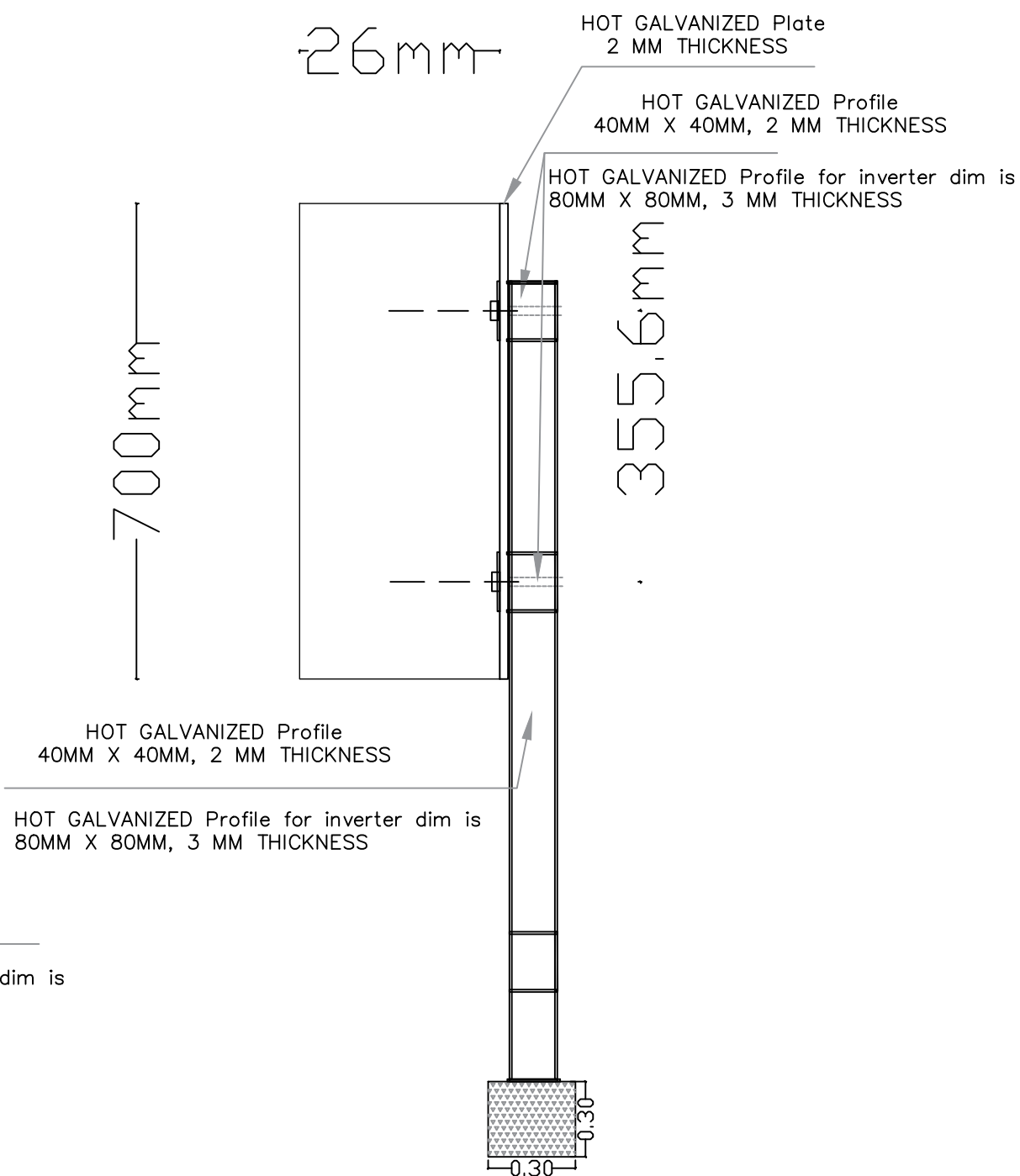
PV Structure works

PREPARED BY	SCALE	DRAWING NO. PV-11
UNDP	1:100	
CHECKED BY	APPROVED BY	SERIAL NO. 0/00
UNDP	UNDP	
DRAWN BY	DATE	
UNDP	May 2018	





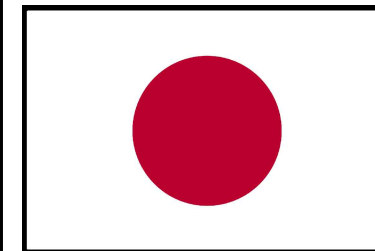
Inverter & Junction Box Installation Detail



Inverter & Junction Box Installation Detail

Junction Box & Inverter installation Detail

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NO	DATE	ENG	REVISIONS

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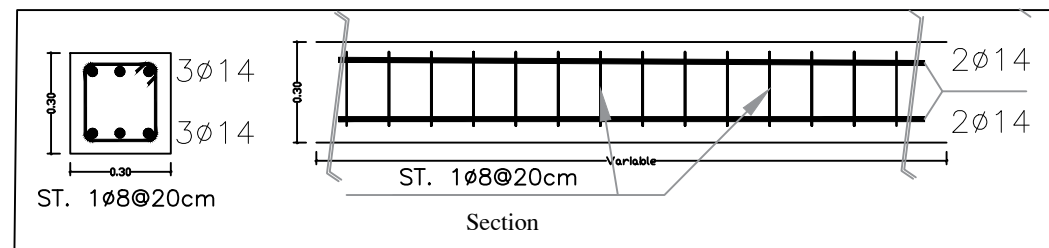
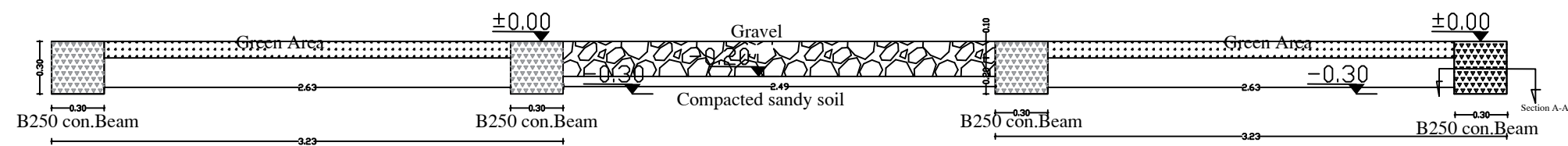
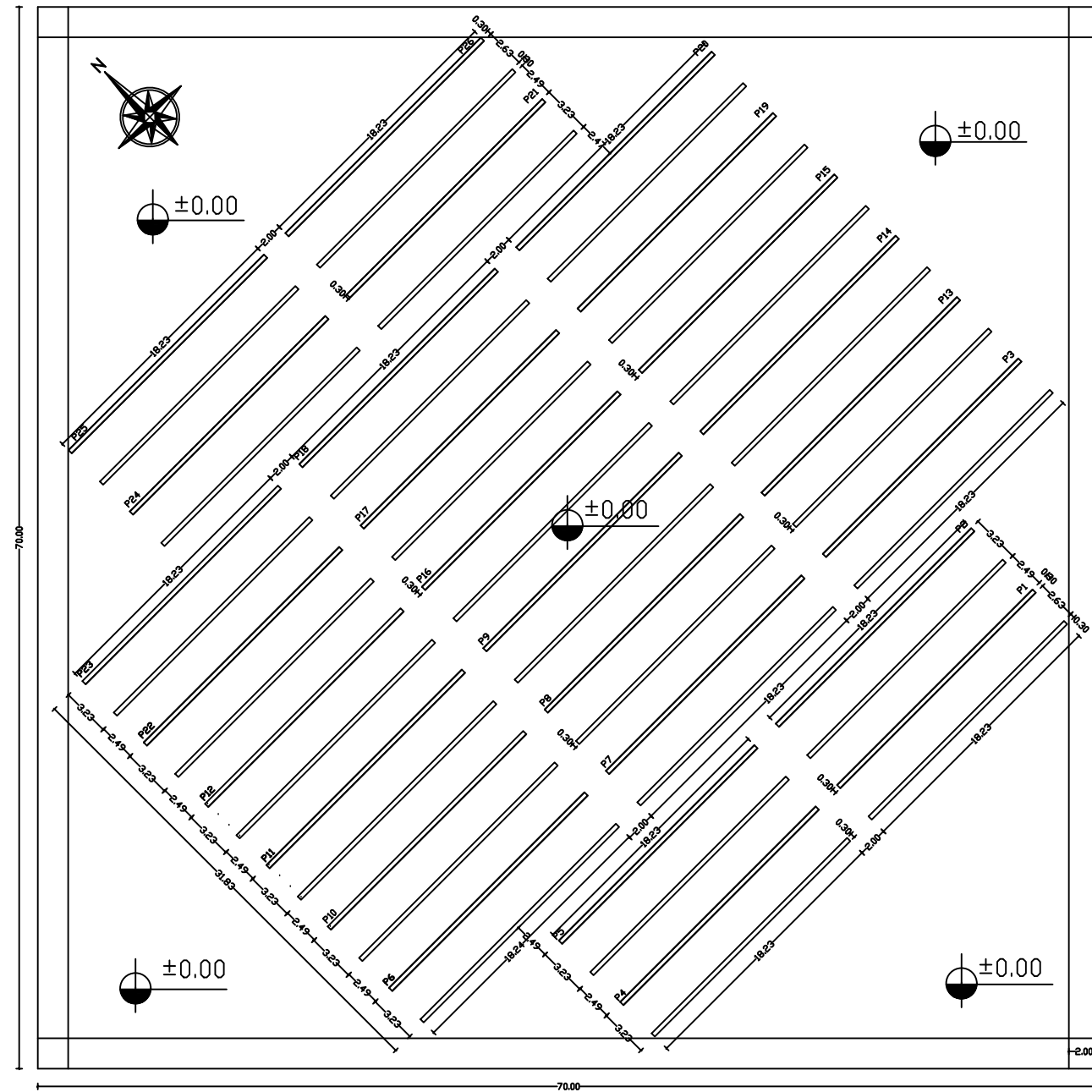
PROJECT TITLE:

Solar System for Waste Water
treatment Plant in Rafah

DRAWING TITLE :

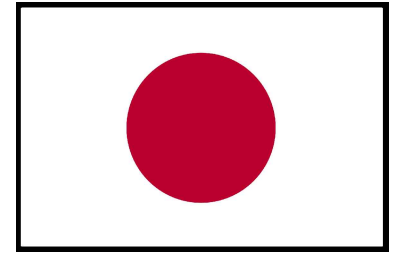
Inverter Installation Detail

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-12
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		



Ground Beam Layout and Reinforcement Foundation Work

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NOTES:

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GRAPHIC SCALE 0 1 2 3 4

NO DATE ENG REVISIONS

CLIENT:



Ministry Of Agriculture and the Coastal Municipalities Water Utility

EMPLOYER:



United Nations Development Programme
Programme of Assistance to the Palestinian People
UNDP/PAPP

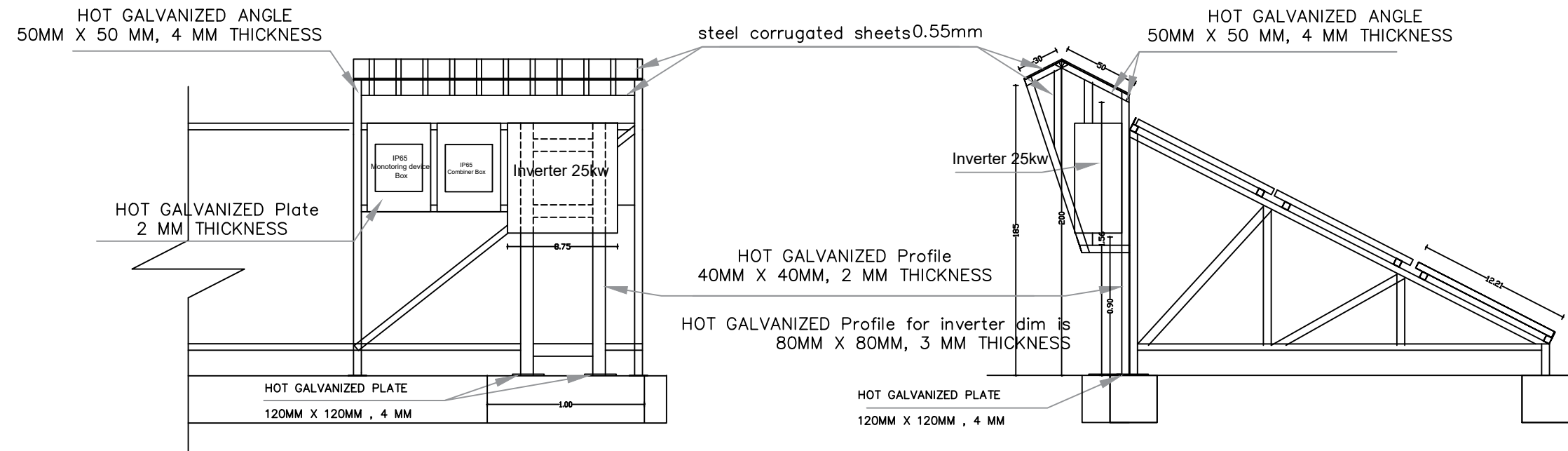
PROJECT TITLE:

Solar System for Waste Water treatment Plant in Rafah

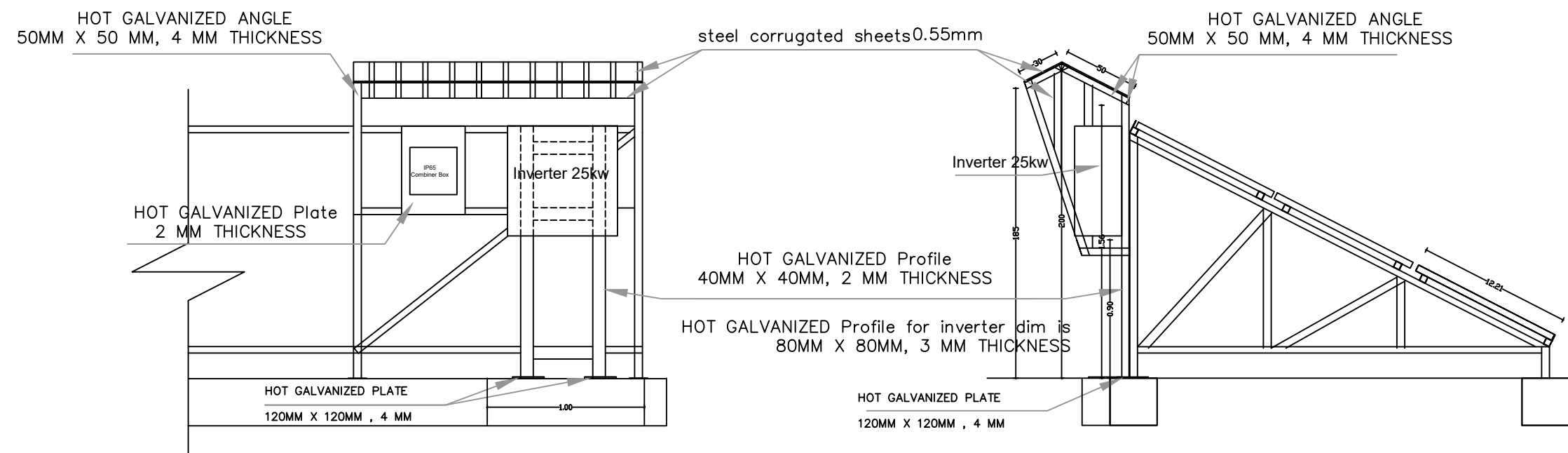
DRAWING TITLE :

Ground Beam Layout and Reinforcement Foundation Work

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-13
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		

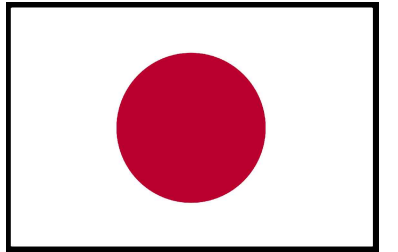


Detail 1
Inverter+Monitoring box+Combiner Box



Detail 2
Inverter+Combiner Box

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GRAPHIC SCALE 0 1 2 3 4

NO DATE ENG REVISIONS

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EMPLOYER:



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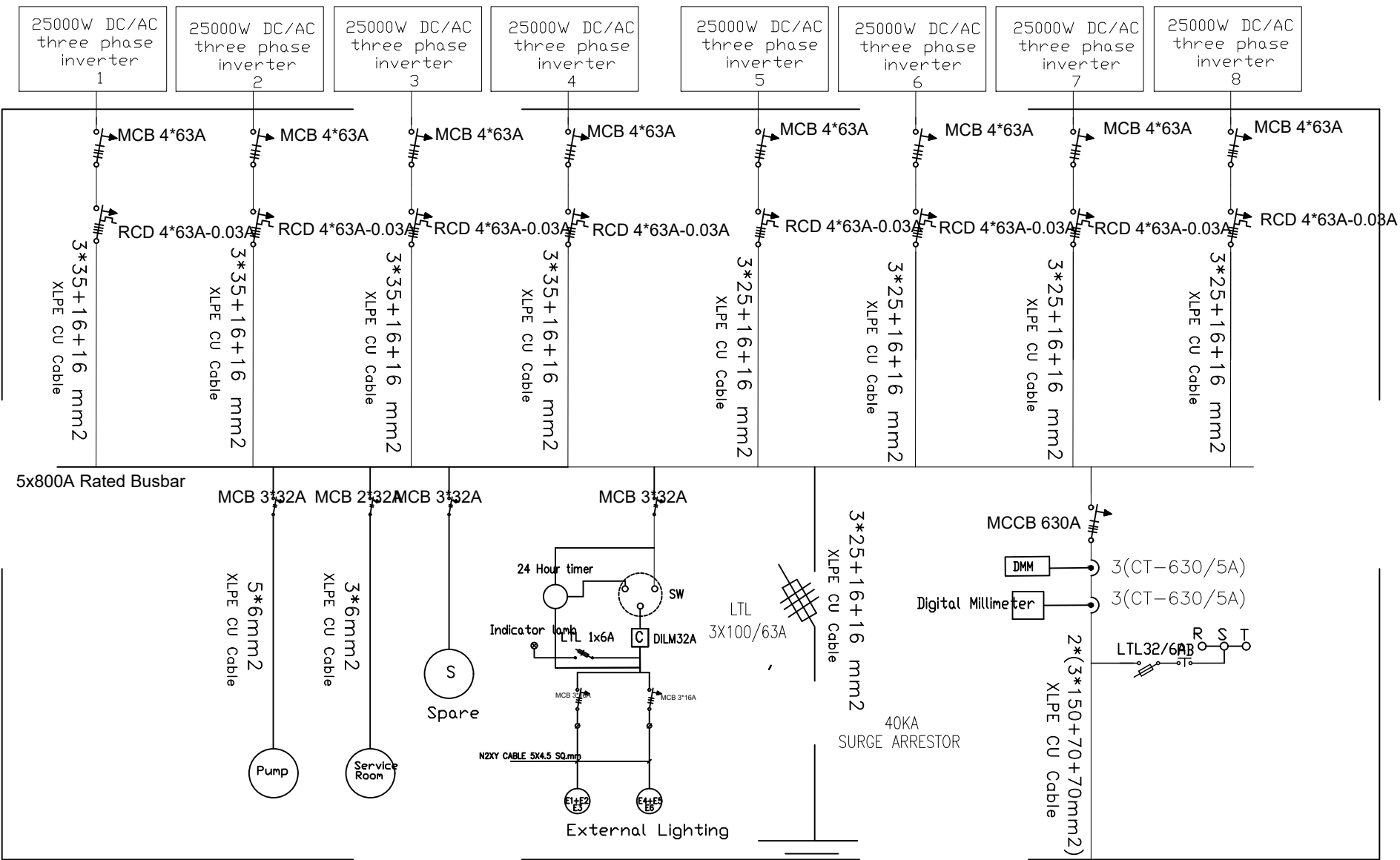
PROJECT TITLE:

Solar System for Waste Water
treatment Plant in Rafah

DRAWING TITLE :

Shed Detail fo Inverter

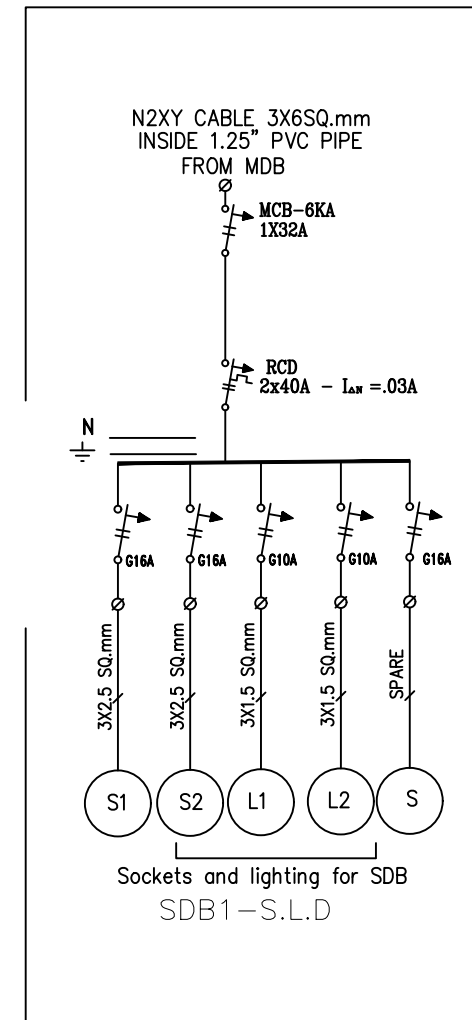
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CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		



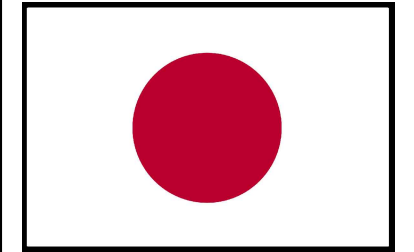
To Main BUSBAR MDB

PV-MDB S.L.D

Existing MDB



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GRAPHIC SCALE				
0	1	2	3	4
NO	DATE	ENG	REVISIONS	

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PROJECT TITLE:

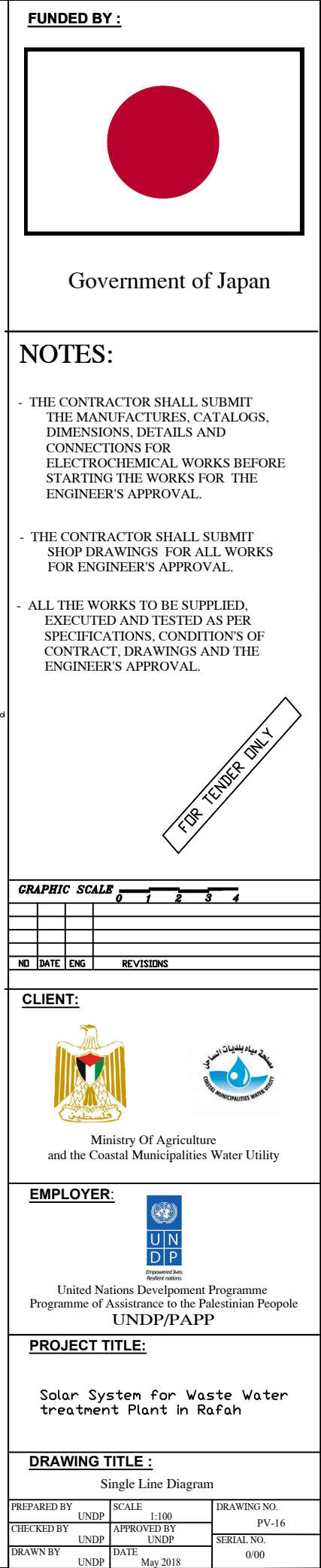
Solar System for Waste Water
treatment Plant in Rafah

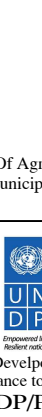
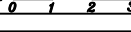
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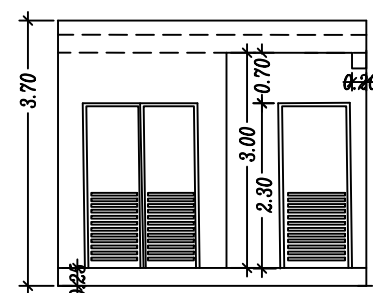
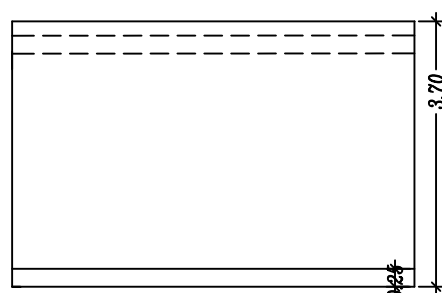
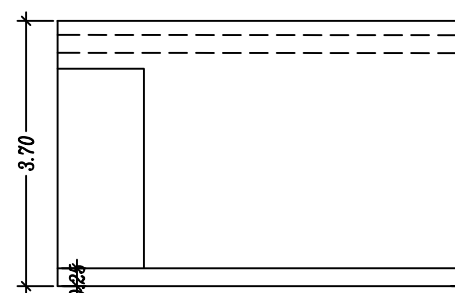
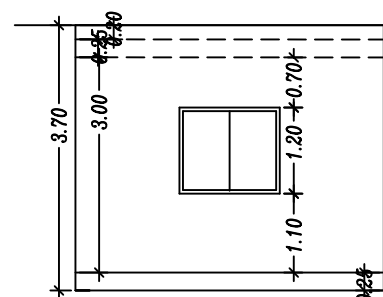
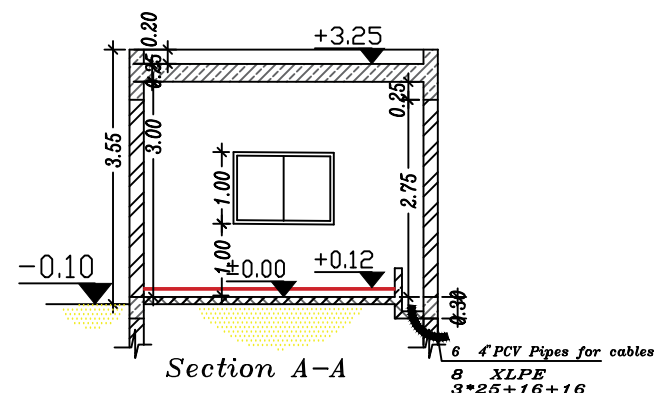
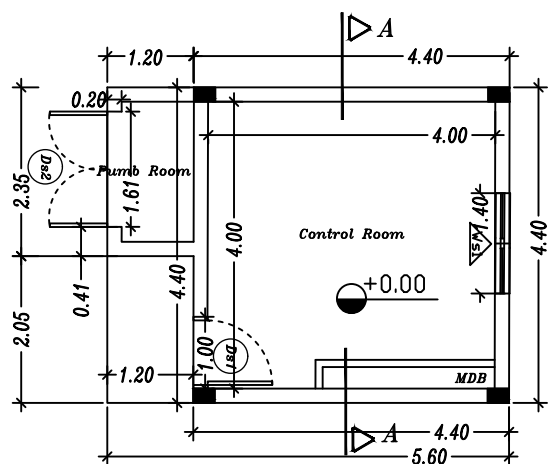
PV-MDB S.L.D

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	PV-15
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		

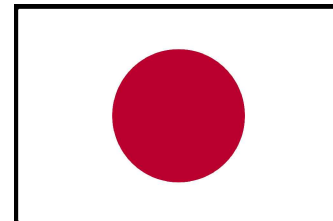
PV-MDB	S.L.D
Single	Line Diagram



<u>FUNDED BY :</u>			
			
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GRAPHIC SCALE			
			
NO	DATE	ENG	REVISIONS
<u>CLIENT:</u>			
 			
Ministry Of Agriculture and the Coastal Municipalities Water Utility			
<u>EMPLOYER:</u>			
			
United Nations Development Programme Programme of Assistance to the Palestinian People UNDP/PAPP			
<u>PROJECT TITLE:</u>			
Solar System for Waste Water treatment Plant in Rafah			
<u>DRAWING TITLE :</u>			
Single Line Diagram			
PREPARED BY UNDP	SCALE 1:100	DRAWING NO. PV-16	
CHECKED BY UNDP	APPROVED BY UNDP	SERIAL NO. 0/00	
DRAWN BY UNDP	DATE May 2018		



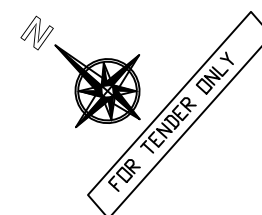
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GRAPHIC SCALE 0 1 2 3 4

NO	DATE	ENG	REVISIONS

CLIENT:



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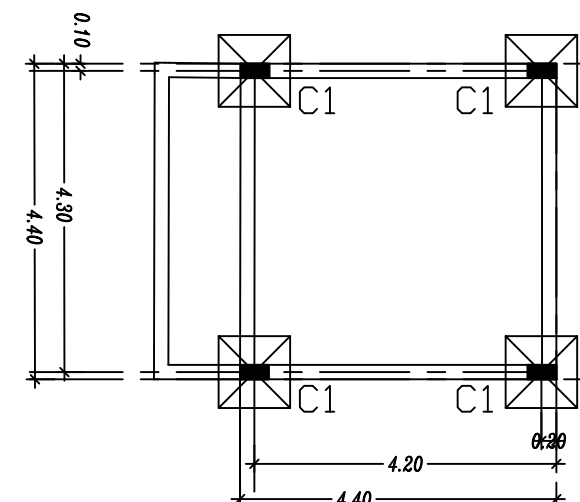
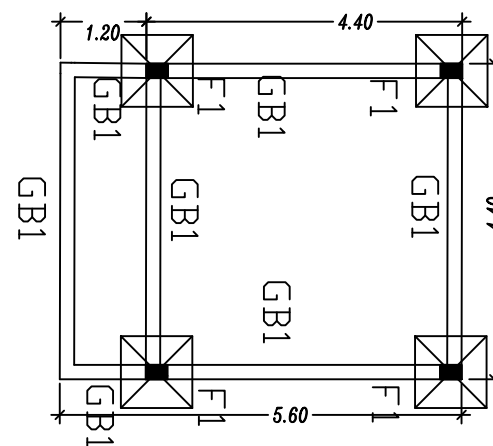
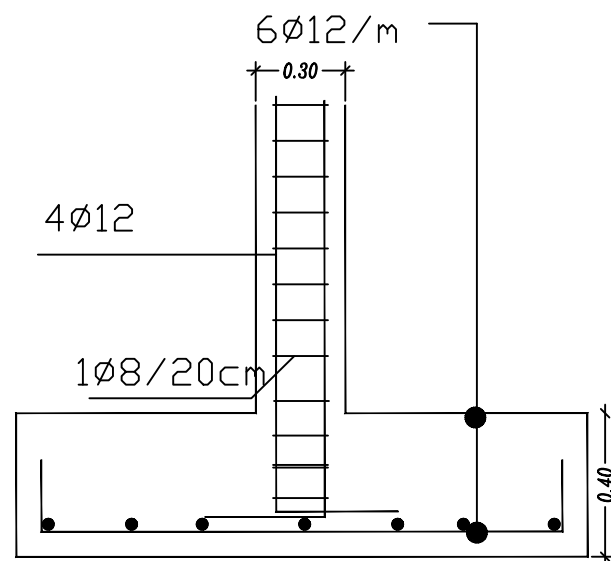
PROJECT TITLE:

Control Room

DRAWING TITLE :

Control Room
ARCHITECTURAL ROOF FLOOR PLAN

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	1:100	CR-1
DRAWN BY	APPROVED BY	SERIAL NO.
UNDP	UNDP	0/00
DATE	May 2018	



الشبلونه

Section in the foundation(F1) Foundation Re-Bar Table

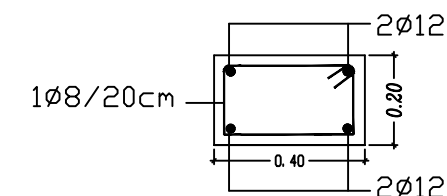
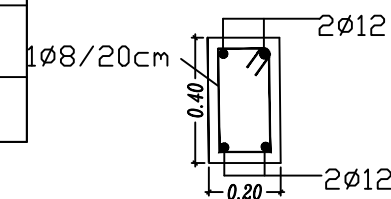
NO.	COL. NO.	CON. DIM.			STEEL
		Rein. con.			
		length	wedth.	depth.	
F1	ALL	1.00*1.00*0.40			6Ø12/6Ø12

G.Floor Beams Re-Bar Table

NO.	CON. DIM.	STEEL		
		TOP	BOTTOM	STIR.
GB1	0.20*0.40	2Ø12	2Ø12	1Ø8/20cm

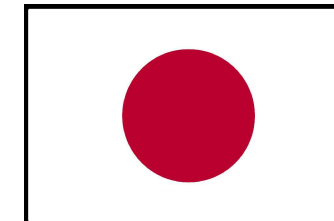
Columuns Re-Bar Table

TYPE	COL. NO.	NECK COL.+G.Floor			STIR.
		DIM.	STEEL	STIR.	
C1	ALL	0.20 0.40	4Ø12	1Ø8/20cm	1Ø8/20cm



Section In Type C1

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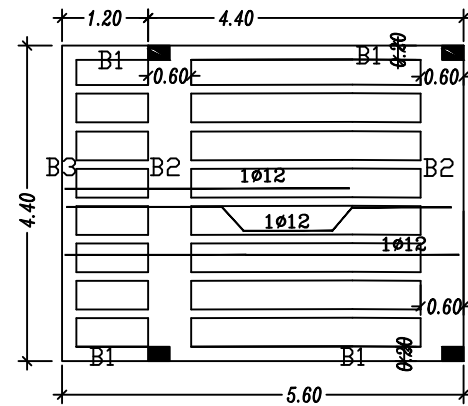
PROJECT TITLE:

Control Room

DRAWING TITLE :

ARCHITECTURAL ROOF FLOOR PLAN

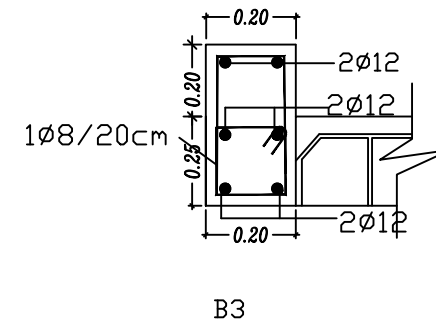
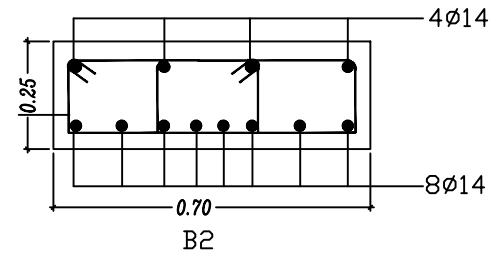
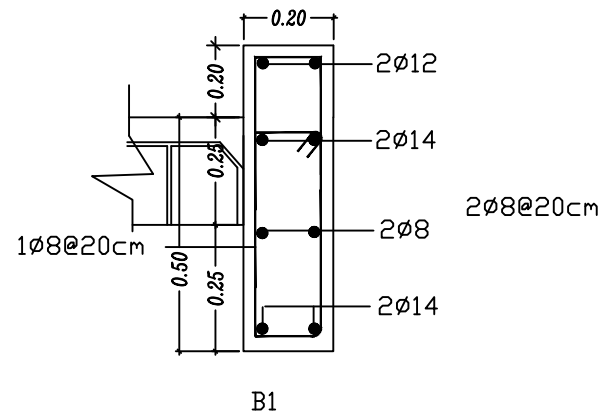
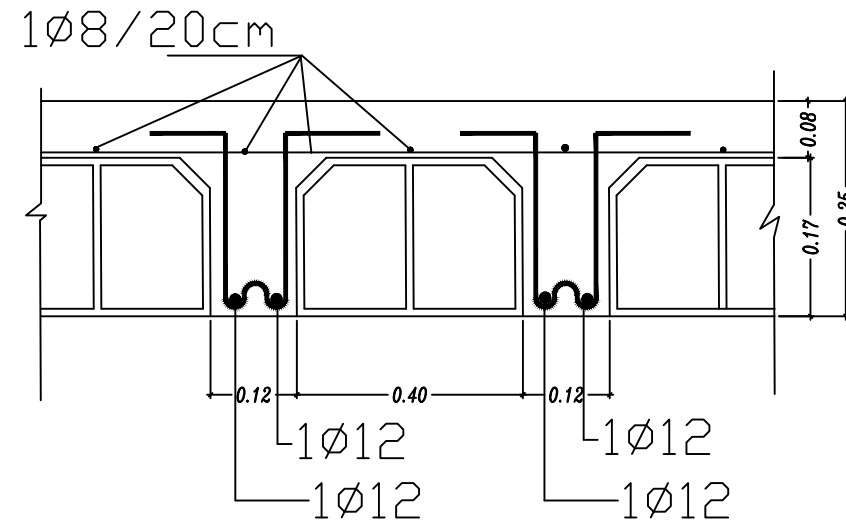
PREPARED BY	SCALE	DRAWING NO.
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CHECKED BY	APPROVED BY	SERIAL NO.
UNDP	UNDP	
DRAWN BY	DATE	
UNDP	May 2018	0/00



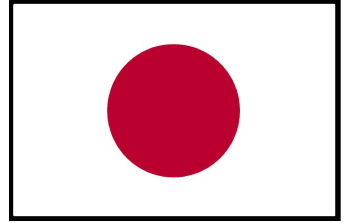
ملاحظات

- ١ - الخرسانة المستعملة قوة ٢٥٠ كجم سم^٣ للأسقف والاساسات وقوة ٢٠٠ كجم سم^٣ للأعمدة
- ٢ - حديد عالي المقاومة من النوع المبزر اتجاه الضيق له ٤٠٠ كجم سم^٣ st 52 min.fy4200kg\cm2
- ٣ - البناء مصمم دور ارضي
- ٤ - عمق الحفر لا يقل عن ١.٥ متر للوصول للمنسوب العالي للناسبي
- ٦ - يجب استعمال الرجاج الميكانيكي أثناء القبات الخرسانه
- ٧ - قوة تحمل التربه المتوقع ٢ كجف سم^٣

مقطع في العصب للسقف مقياس الرسم 1/10



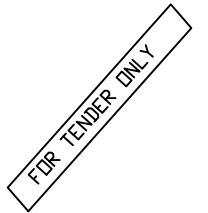
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PROJECT TITLE:

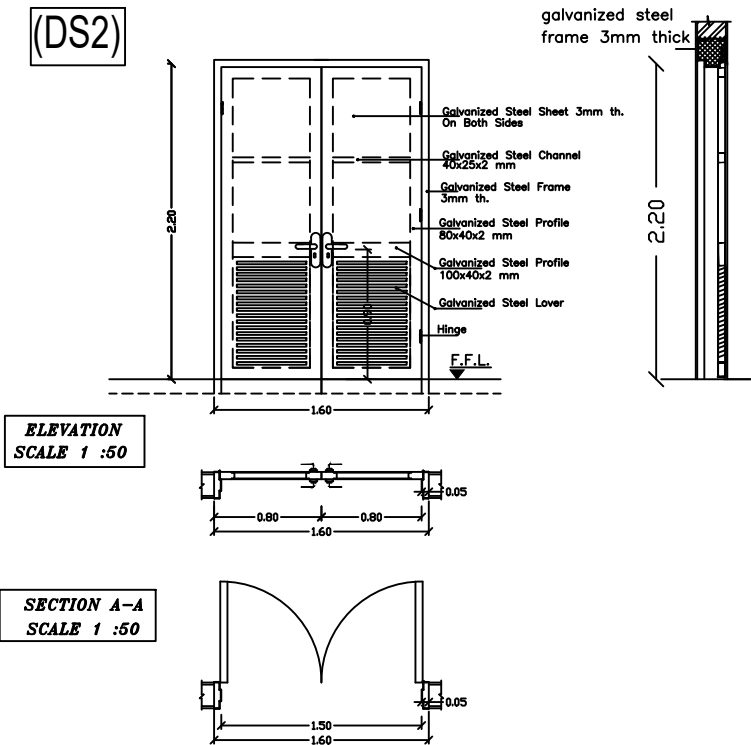
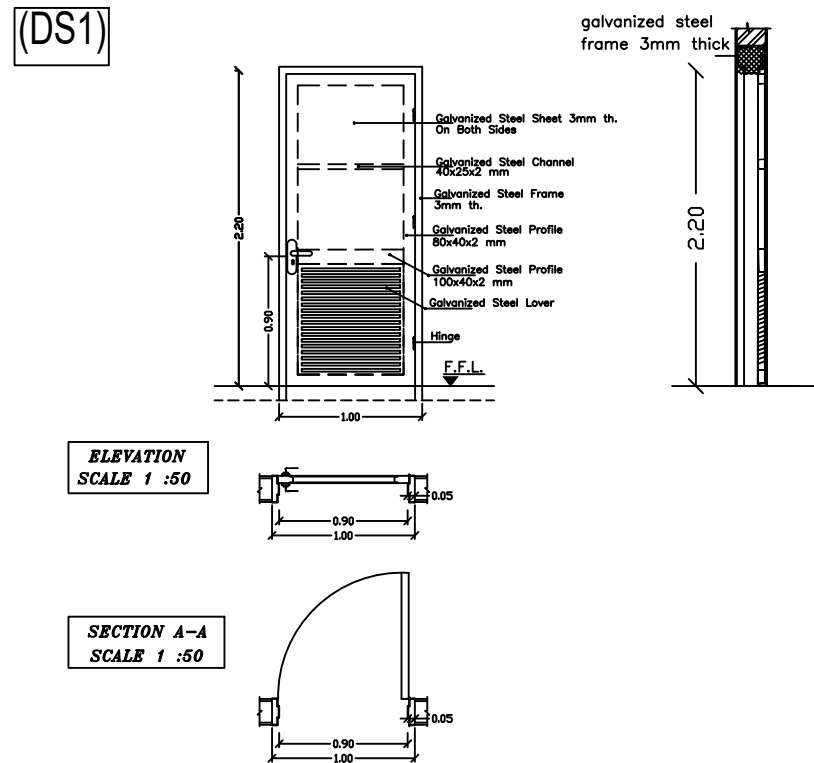
Control Room

DRAWING TITLE :

ARCHITECTURAL ROOF FLOOR PLAN

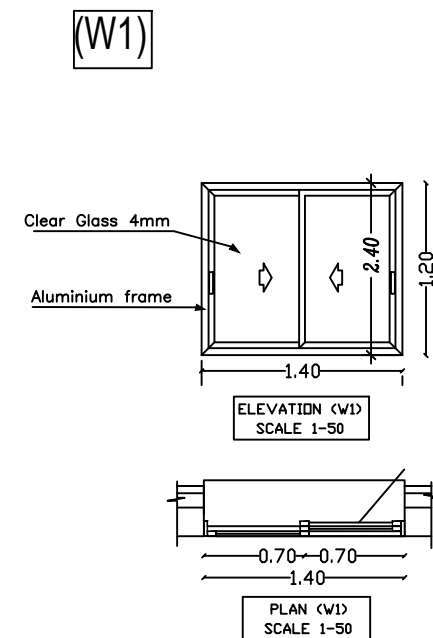
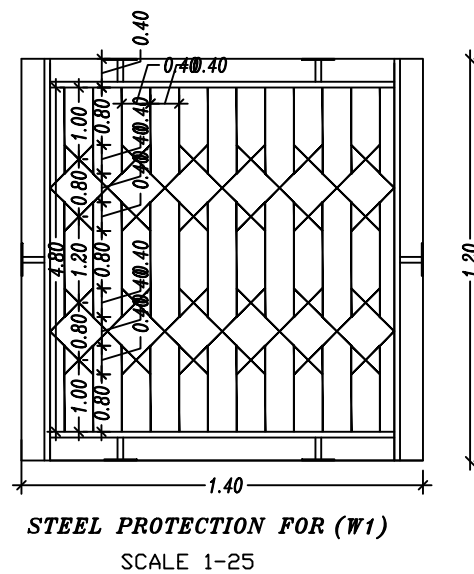
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CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	0/00
DRAWN BY	UNDP	DATE	May 2018		

STEEL DOORS

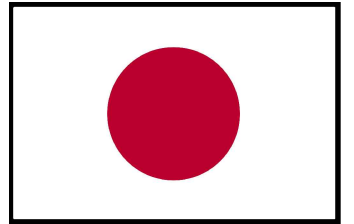


STEEL PROTECTION FOR WINDOWS

ALUMINUM WINDOWS DETAILS



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NO	DATE	ENG	REVISIONS

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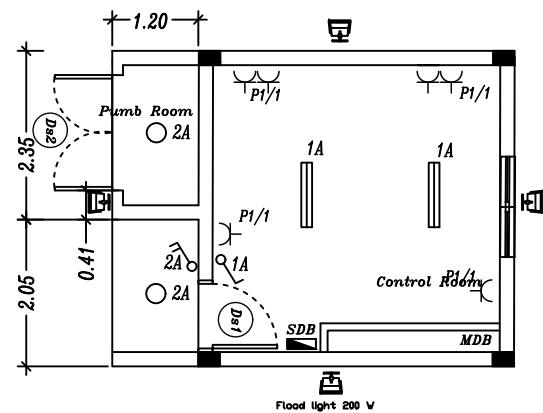
PROJECT TITLE:

Control Room

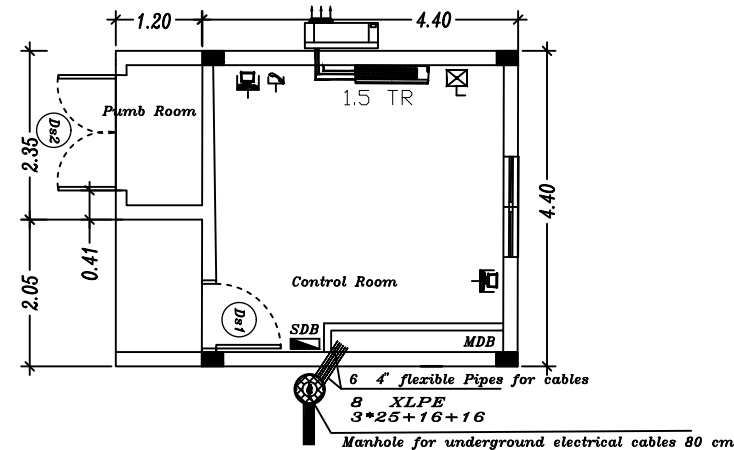
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ARCHITECTURAL ROOF FLOOR PLAN

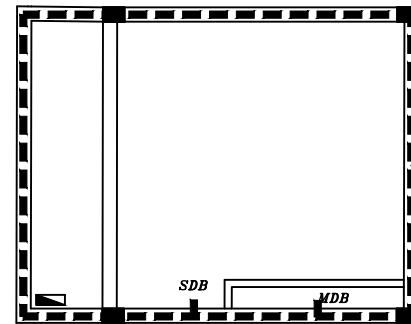
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CHECKED BY	UNDP	APPROVED BY	UNDP	
DRAWN BY	UNDP	DATE	May 2018	SERIAL NO. 0/00



lighting works



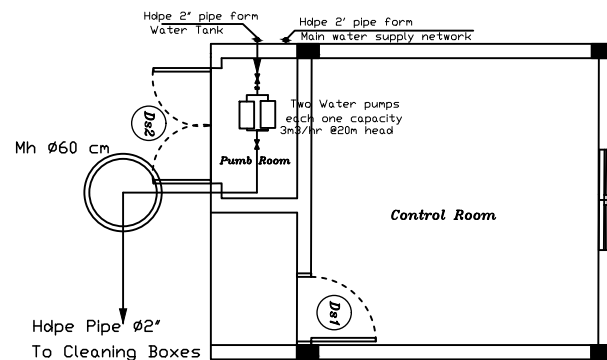
A.C./Telephone&Data works



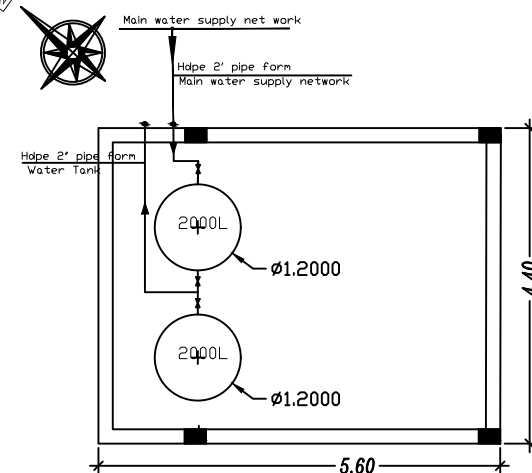
Earthing works

Galv. Steel Sheet 30x3,5mm
Welded With Tie Beam every 2 m

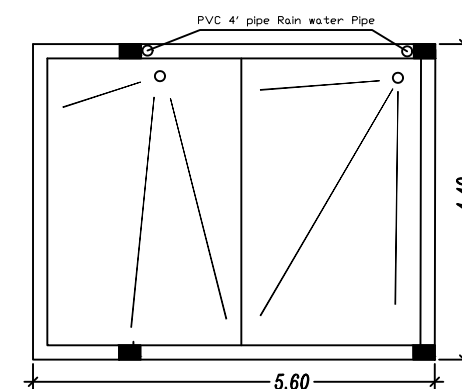
Earthing Manhole With
Cu. Electrode R<2 ohm



Waterpump works



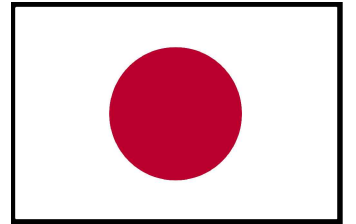
Water supply works



RainWater pipes

Mechanical works

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NO	DATE	ENG	REVISIONS

CLIENT:



Ministry Of Agriculture
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EMPLOYER:



United Nations Development Programme
Programme of Assistance to the Palestinian People
UNDP/PAPP

PROJECT TITLE:

Control Room

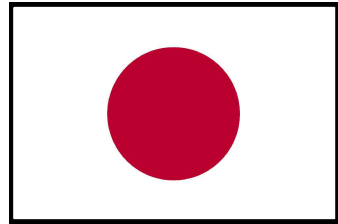
DRAWING TITLE :

ARCHITECTURAL ROOF FLOOR PLAN

PREPARED BY	UNDP	SCALE	1:100	DRAWING NO.	CR-5
CHECKED BY	UNDP	APPROVED BY	UNDP	SERIAL NO.	
DRAWN BY	UNDP	DATE	May 2018		E+M/01

	Fluorescent Fixture 2x36 watt		Double water proof pole switch		TV Socket
	Fluorescent Fixture water proof 2x36 watt		Three water proof pole switch		Satellite Socket
	Fluorescent Fixture 1x36 watt		BHU mounted, Single Pole Switch		Computer Socket
	Fluorescent Fixture water proof 1x36 watt		Fixel pole fixel switch		VGA Connector
	Cell Mounted Globe		Double pole fixel switch		COMPUTER MAIN RACK
	Wall Mounted Globe		Three poles fixel switch		COMPUTER Local RACK
	Flood light 400 W		Double pole WP fixel switch		Telephone box
	Flood light 250 W		Ceilling Fan speed controller		Smoke Detector
	Wall mounted Red Globe for Dark room		Stair case push button		Heat Detector
	Red Globe for Dark room		Single Phase Isolating switch		Fire Alarm Call Point (Break Glas)
	Spot lamp 2x13 watt		three phase Isolating switch		Fire Alarm Control Panel
	Ceilling Fan		Single socket outlet 3pin 16A		Fire Alarm Bell
	Extract Fan 6'		double socket outlet 3pin 16A		External Fire Alarm Siren with Flascher
	Extract Fan 8'		socket outlet 3pin 16A Water proof		Exit Sign
	Extract Fan 15'		socket outlet 3pin 16A inside the rack		Emergency Exit Sign
	Single pole switch		socket outlet 3pin 16A above falseCeilling		PVC pipe 6'
	Double pole switch		Ceilling mounted socket outlet 3pin 16A		Main Distribution Board M.D.B
	Three pole switch		Double Ceilling mounted socket outlet 3pin 16A		Sub Distribution Board S.D.B
	Four pole switch		three phases socket outlet		Earthing Manhole 60 cm With Cu. Electrode R<2 ohm
	Single water proof pole switch		Cable for socket outlet 3pin 16A of Bed Head Unit		Manhole for underground electrical cables 100 cm
	Single pole Heater switch		Telephone Socket		PVC pipe 4'
			Telephone Socket inside Rack		

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FOR TENDER ONLY

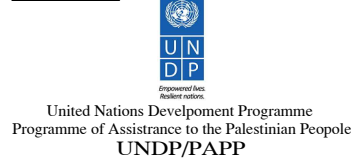
GRAPHIC SCALE 0 1 2 3 4

NO	DATE	ENG	REVISIONS

CLIENT:



EMPLOYER:



PROJECT TITLE:

Control Room

DRAWING TITLE :

ARCHITECTURAL ROOF FLOOR PLAN

PREPARED BY	SCALE	DRAWING NO.
CHECKED BY	1:100	CR-6
DRAWN BY	APPROVED BY	SERIAL NO.
UNDP	UNDP	0/00
	DATE	
	May 2018	