

## 資料 9 概略設計図

概略設計図面リストを下表に示す。

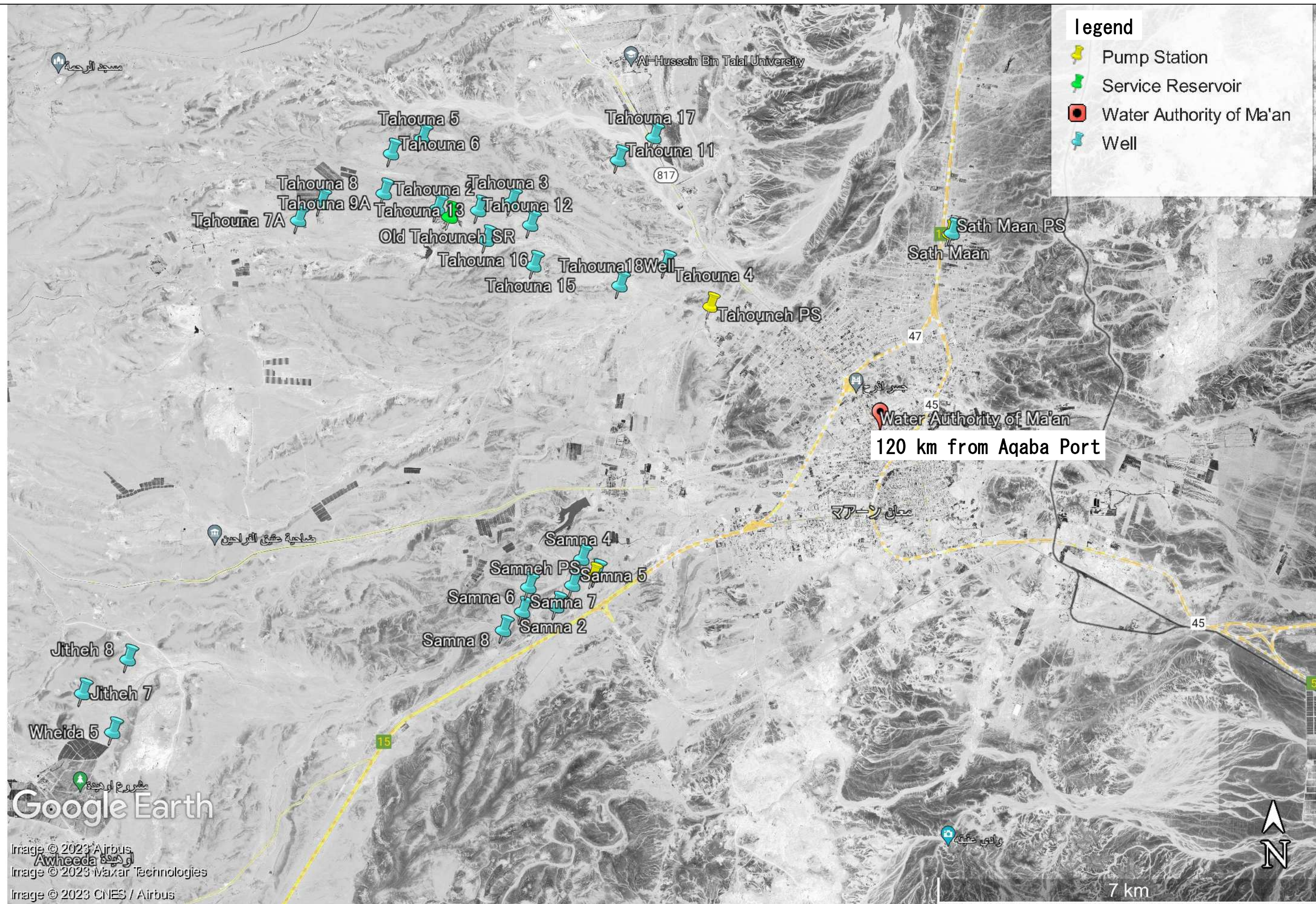
概略設計図面リスト

図面番号	図面タイトル
G-01	Qasbat Maan (Priority1) of Location MAP
I-01	SCADA Network System Diagram
E-01	Power distribution panel for Ma'an SCADA room
E-02	Power distribution panel large type for PS
E-03	Power distribution panel small type for PS
E-04	Distribution pump panel (SS type) for PS
E-05	PLC Panel (main type) for PS
G-02	P1-1-PS1 Samneh PS of General Layout Plan
M-01	P1-1-PS1 Samneh PS of Pump room
G-03	P1-1-PS2 Tahounch PS of General Layout Plan
M-02	P1-1-PS2 Tahounch PS of Pump room
G-04A	P1-1-PS3 Sath Maan PS of General Layout Plan
M-03	P1-1-PS3 Sath Maan PS of Pump room
E-06	Power distribution panel for SR
E-07	Valve control panel for SR
E-08	PLC Panel for SR
G-04B	P1-1-R4 Old Tahounch SR of Location Map
G-05	P1-1-R4 Old Tahounch SR of General Layout Plan
E-09	Power distribution panel for Well
E-10	Well pump control panel (SS type) for Well
E-11	PLC Panel for Well
G-06	P1-1-W1 Tahouna 2 Well of General Layout Plan
M-04	P1-1-W1 Tahouna 2 Well of Piping arrangement
G-07	P1-1-W2 Tahouna 3 Well of General Layout Plan
M-05	P1-1-W2 Tahouna 3 Well of Piping arrangement
G-08	P1-1-W3 Tahouna 4 Well of General Layout Plan
M-06	P1-1-W3 Tahouna 4 Well of Piping arrangement
G-09	P1-1-W4 Tahouna 5 Well of General Layout Plan
M-07	P1-1-W4 Tahouna 5 Well of Piping arrangement
G-10	P1-1-W5 Tahouna 6 Well of General Layout Plan
M-08	P1-1-W5 Tahouna 6 Well of Piping arrangement
G-11	P1-1-W6 Tahouna 7 A Well of General Layout Plan
M-09	P1-1-W6 Tahouna 7 A Well of Piping arrangement
G-12	P1-1-W7 Tahouna 8 Well of General Layout Plan
M-10	P1-1-W7 Tahouna 8 Well of Piping arrangement
G-13	P1-1-W8 Tahouna 9 A Well of General Layout Plan
M-11	P1-1-W8 Tahouna 9 A Well of Piping arrangement
G-14	P1-1-W9 Tahouna 10 Well of General Layout Plan
M-12	P1-1-W9 Tahouna 10 Well of Piping arrangement
G-15	P1-1-W11 Tahouna 12 Well of General Layout Plan
M-13	P1-1-W11 Tahouna 12 Well of Piping arrangement
G-16	P1-1-W12 Tahouna 13 Well of General Layout Plan
M-14	P1-1-W12 Tahouna 13 Well of Piping arrangement
G-17	P1-1-W13 Tahouna 15 Well of General Layout Plan
M-15	P1-1-W13 Tahouna 15 Well of Piping arrangement
G-18	P1-1-W14 Tahouna 16 Well of General Layout Plan
M-16	P1-1-W14 Tahouna 16 Well of Piping arrangement

図面番号	図面タイトル
G-19	P1-1-W15 Tahouna 17 Well of General Layout Plan
M-17	P1-1-W15 Tahouna 17 Well of Piping arrangement
M-18	P1-1-W16 Tahouna 18 Well of Piping arrangement
G-20	P1-1-W17 Wheida 5 Well of General Layout Plan
M-19	P1-1-W17 Wheida 5 Well of Piping arrangement
G-21	P1-1-W18 Jitheh 7 Well of General Layout Plan
M-20	P1-1-W18 Jitheh 7 Well of Piping arrangement
G-22	P1-1-W19 Jitheh 8 Well of General Layout Plan
M-21	P1-1-W19 Jitheh 8 Well of Piping arrangement
M-22	P1-1-W20 Sath Maan Well of Piping arrangement
G-23	P1-1-W21 Samna 1 Well of General Layout Plan
M-23	P1-1-W21 Samna 1 Well of Piping arrangement
G-24	P1-1-W22 Samna 2 Well of General Layout Plan
M-24	P1-1-W22 Samna 2 Well of Piping arrangement
G-25	P1-1-W23 Samna 4 Well of General Layout Plan
M-25	P1-1-W23 Samna 4 Well of Piping arrangement
G-26	P1-1-W25 Samna 6 Well of General Layout Plan
M-26	P1-1-W25 Samna 6 Well of Piping arrangement
G-27	P1-1-W26 Samna 7 Well of General Layout Plan
M-27	P1-1-W26 Samna 7 Well of Piping arrangement
G-28	P1-1-W27 Samna 8 Well of General Layout Plan
M-28	P1-1-W27 Samna 8 Well of Piping arrangement

出典：調査団

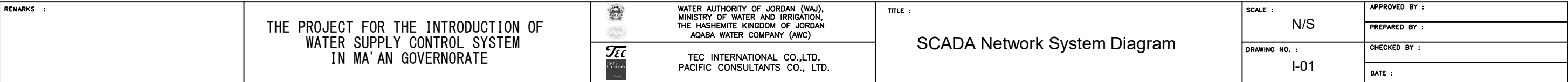




REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 TEC INTERNATIONAL CO., LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  Qasbat Maan (Priority1) of Location MAP	SCALE :	APPROVED BY :
				N/S	PREPARED BY :
				DRAWING NO. :	CHECKED BY :
				G-01	DATE :

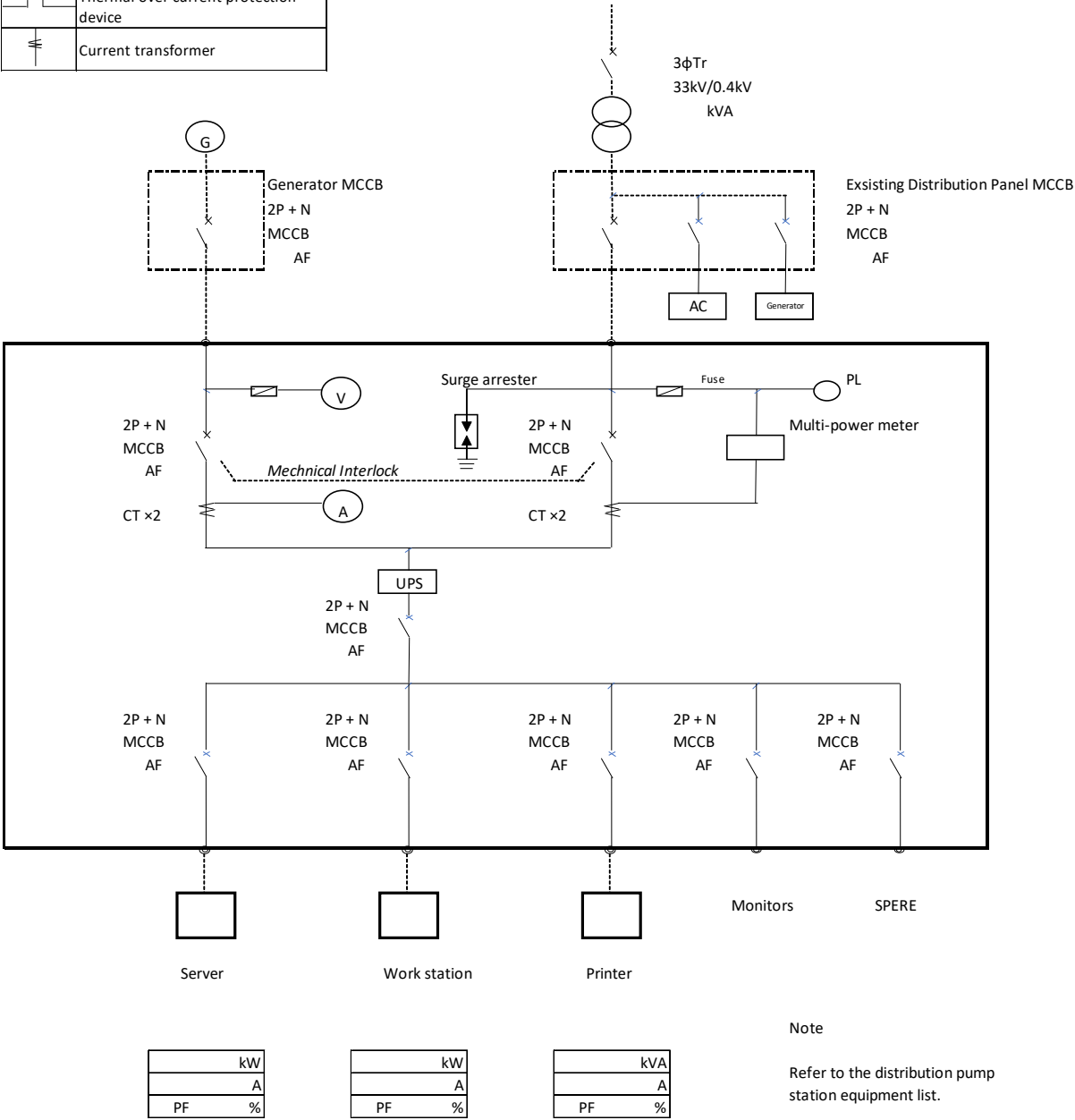


d) Ethernet TCP/IP

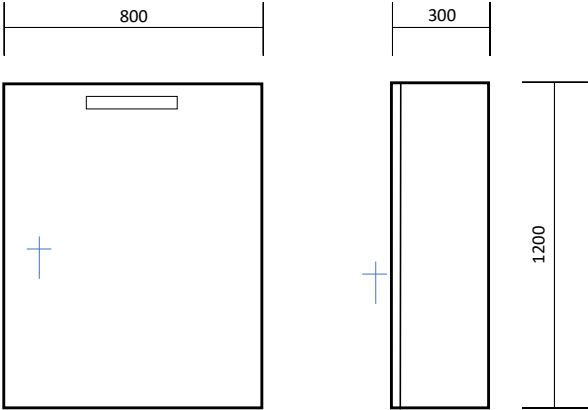




SYMBOL	DESCREPTION
	AC votage meter
	AC current meter
	Molded Case Circuit Breaker
	Magnet Contactor
	Thermal over current protection device
	Current transformer



Power distribution panel Single line diagram



Power distribution panel Panel Outline

Note

External dimensions are for reference only.  
The power meter shall be installed in the power distribution panel.  
Spare 2PMCCBs shall be installed.

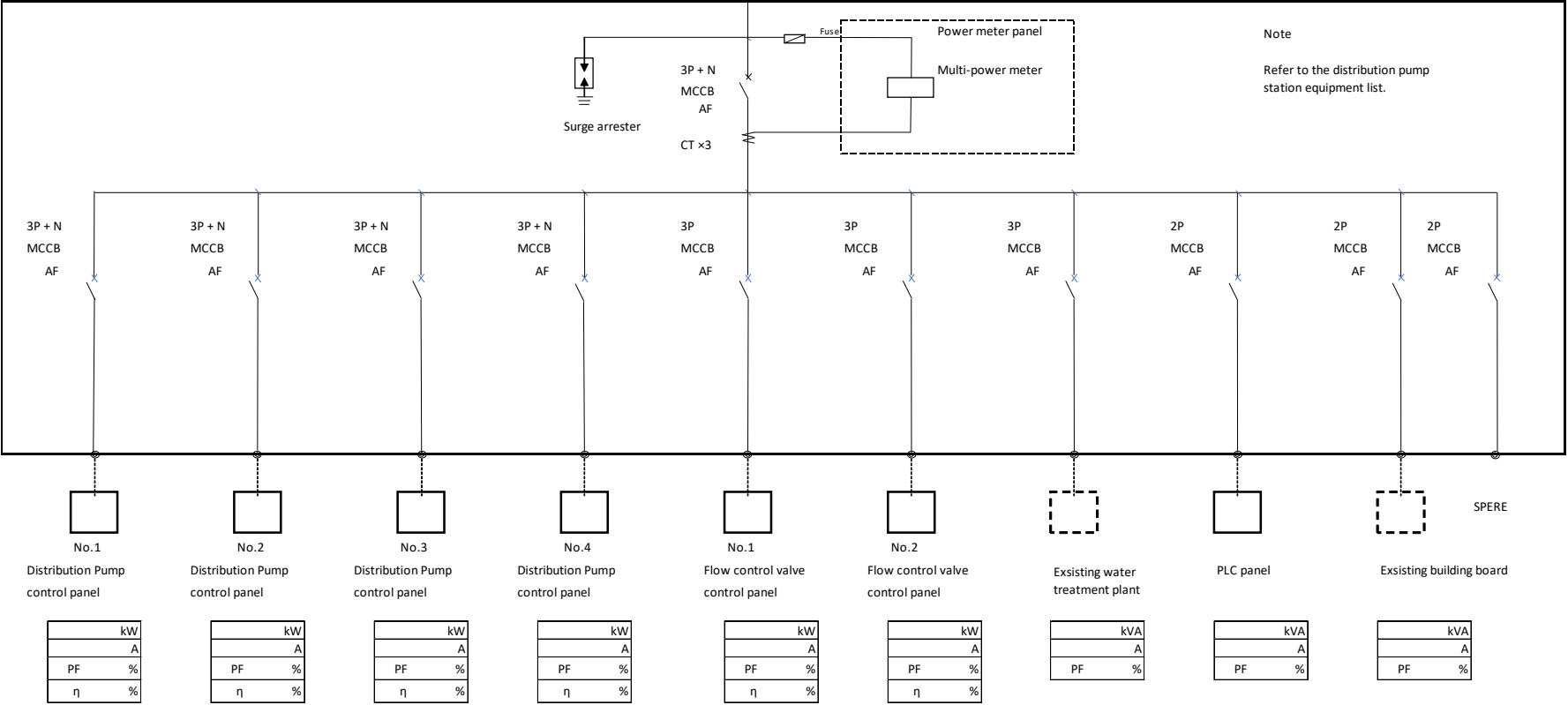
Power meter panel Panel Outline

Power distribution panel Specification

Item	Specification	Item	Specification
Item No.	□□-□□-□□□-MD	Internal electrical equipment	1PMCB, Approx. 3 pcs. Fuse modular terminal, Approx. 3 pcs. Others required
Panel Name	Power distribution panel		
Bord Type	Metal clad enclosure in door use, doors in the front and double door		
Power supply	Operation voltage: AC230V		
Power supply circuit	2PMCCB (with mechnical interlock), Approx. 2 pcs.	Technical general	Standard; ■JIS,IEC,JEM/■IEC/□BS/□OTHER Indoor panels Steel thicness; not less than 2.3mm. Door & Inside plate; not less than 2.3mm. Accessory; □Foundation bolts/□Channel base/■Touch-up paint/■Panel key / Panel sizes are for reference only. Installation location: Ma'an Office SCADA Room
	Surge arrester UPS Multi-power meter 2PMCCB, Approx. 6 pcs.		

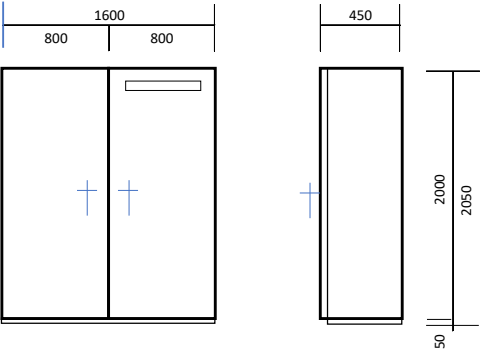
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA' AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  Power distribution panel for Ma'an SCADA room	SCALE :	APPROVED BY :
				N/S	PREPARED BY :
				DRAWING NO. : E-01	CHECKED BY :
					DATE :

SYMBOL	DESCREEPTION
	AC votage meter
	AC current meter
	Molded Case Circuit Breaker
	Magnet Contactor
	Thermal over current protection device
	Current transformer



Power distribution panel Single line diagram

Note: Refer to the distribution pump station equipment list



Power distribution panell Panel Outline

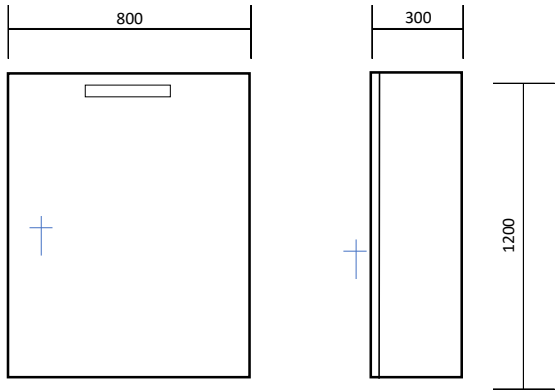
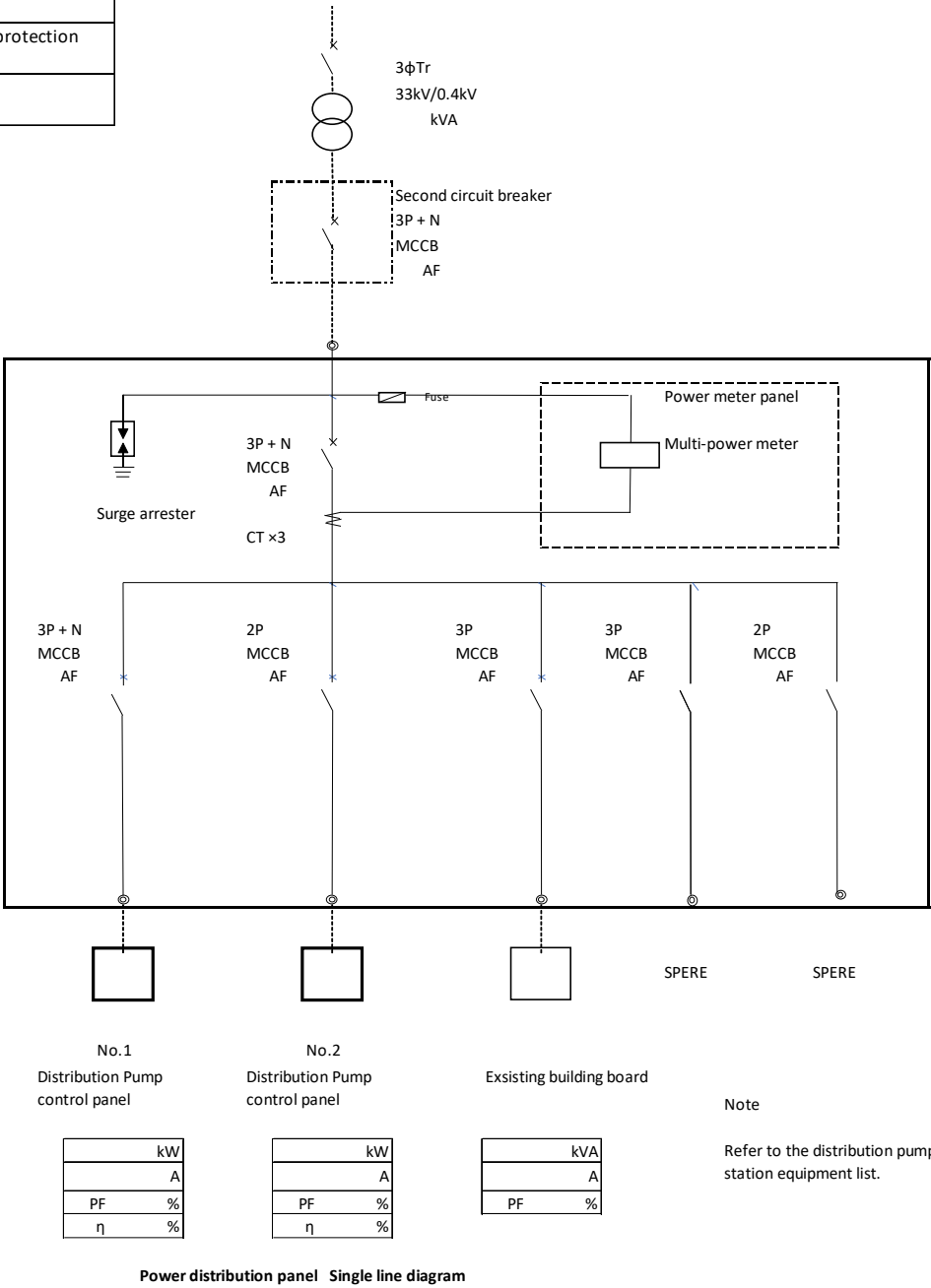
Item No.	P□-□-□PS□-MD
Panel Name	Power distribution panel
Bord Type	Metal clad enclosure in door use, doors in the front and double door
Power supply	Operation voltage: AC400V Control voltage: AC230V
Power supply circuit	3PMCCB, Approx. 10 pcs (including spare circuits). Surge arrester 2PMCCB, Approx. 5 pcs (including spare circuits). Multi-power meter Current transformer
Internal electrical equipment	1PMCB, Approx. 15 pcs. Control cabinet socket Fuse modular terminal, Approx. 10 pcs. Relay, Timer, Alarm setter, Panel light, Others required
Technical general	Standard; ■JIS, JEC, JEM / ■IEC / □BS / □OTHER Indoor panels; Dust & Vermin proof with air filter Steel thickness; not less than 2.3mm. Door & Inside plate; not less than 3.2mm. Accessory; ■Foundation bolts / ■Channel base / ■Touch-up paint / ■Panel key /
Quantity	

Panel sizes are for reference only.  
Installation location: Pump Station Electrical Room

REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  Power distribution panel large type for PS	SCALE :	APPROVED BY :
				N/S	PREPARED BY :
				DRAWING NO. : E-02	CHECKED BY :
					DATE :

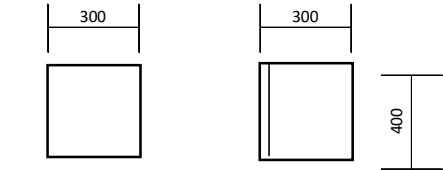


SYMBOL	DESCREEPTION
	AC votage meter
	AC current meter
	Molded Case Circuit Breaker
	Magnet Contactor
	Thermal over current protection device
	Current transformer



Note

External dimensions are for reference only.  
The power meter shall be installed in the  
power distribution panel.  
Spare 3PMCCBs and 2PMCCBs shall be  
installed.



Note

Power meter panels shall be installed when  
the existing power distribution panel does not  
need to be replaced.

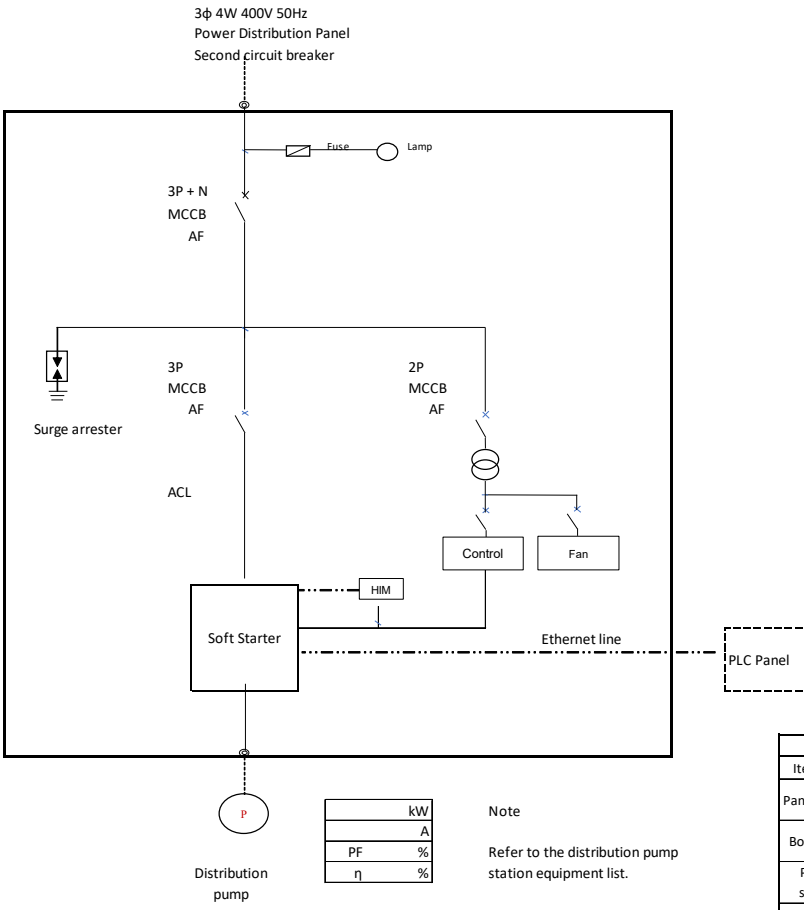
Power distribution panel Specification

Item	Specification	Item	Specification
Item No.	P□-□-□W□-MD	Internal electrical equipment	1PMCB, Approx. 3 pcs. Fuse modular terminal, Approx. 3 pcs. Others required
Panel Name	Power distribution panel		
Bord Type	Metal clad enclosure in door use, doors in the front and double door		
Power supply	Operation voltage: AC400V	Technical general	Standard; ■JIS,IEC,JEM/■IEC/□BS/□OTHER Indoor panels Steel thickness; not less than 2.3mm. Door & Inside plate; not less than 2.3mm. Accessory; □Foundation bolts/□Channel base/■Touch-up paint/■Panel key/ Panel sizes are for reference only. Installation location: Pump Station Electrical Room
Power supply circuit	3PMCCB, Approx. 3 pcs. Surge arrester 2PMCCB, Approx. 2 pcs. Multi-power meter		

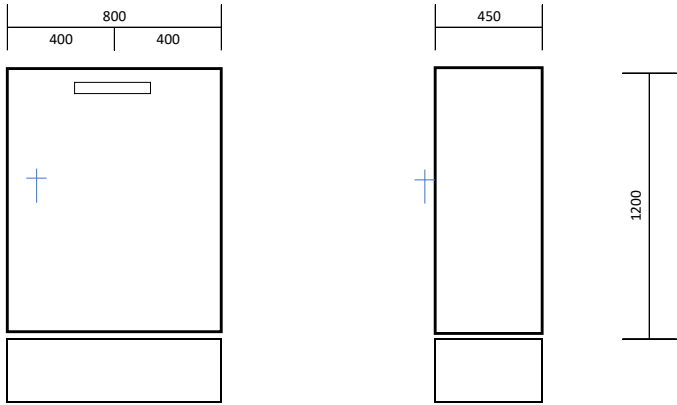
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  Power distribution panel small type for PS	SCALE :	APPROVED BY :
				N/S	PREPARED BY :
				DRAWING NO. : E-03	CHECKED BY :
					DATE :

SYMBOL	DESCREEPTION
	AC votage meter
	AC current meter
	Molded Case Circuit Breaker
	Magnet Contactor
	Thermal over current protection device
	Current transformer

Motor Capacity	Main MCCB	Pump MCCB	Soft Starter	VFD
7.5	3P+N MCCB	3P MCCB 50AF/30AT		
11	3P+N MCCB	3P MCCB 50AF/40AT		
15	3P+N MCCB	3P MCCB 50AF50AT		
18.5	3P+N MCCB	3P MCCB 100AF/75AT		
22	3P+N MCCB	3P MCCB 100AF/100AT		
37	3P+N MCCB	3P MCCB 225AH/125AT		
45	3P+N MCCB	3P MCCB 225AF/150AT		
55	3P+N MCCB	3P MCCB 225AF/175AT		
75	3P+N MCCB	3P MCCB 225AF/225AT		
90	3P+N MCCB	3P MCCB 400AF/250AT		
110	3P+N MCCB	3P MCCB 400AF/300AT		
132	3P+N MCCB	3P MCCB 400AF/300AT		
150	3P+N MCCB	3P MCCB		
180	3P+N MCCB	3P MCCB		
220	3P+N MCCB	3P MCCB		



Distribution pump control panel Single line diagram



Distribution pump control panel  
(75kW SS type for reference)

Distribution pump control panel Specification

Item	Specification	Item	Specification
Item No.	P□-□-□W□-MC		
Panel Name	Distribution pump control panel		
Bord Type	Metal clad enclosure in door use, doors in the front and double door	Internal electrical equipment	1PMCB, Approx. 5 pcs. Control cabinet socket Power supply 24V DC supply Fuse modular terminal, Approx. 5 pcs. HIM Ethernet switch Relay, Timer, Alarm setter, Panel light, Others required
Power supply	Operation voltage: AC400V Control voltage: AC230V		
Power supply circuit	3PMCCB, Approx. 2 pcs. Surge arrester 2PMCCB Transformer ACL Soft Starter	Technical general	Standard; ■JIS, JEC, JEM. / ■IEC / □BS / □OTHER Indoor panels; Dust & Vermin proof with air filter Steel thicness; not less than 2.3mm, Door & Inside plate; not less than 3.2mm. Accessory; ■Foundation bolts / ■Channel base / ■Touch-up paint / ■Panel key /

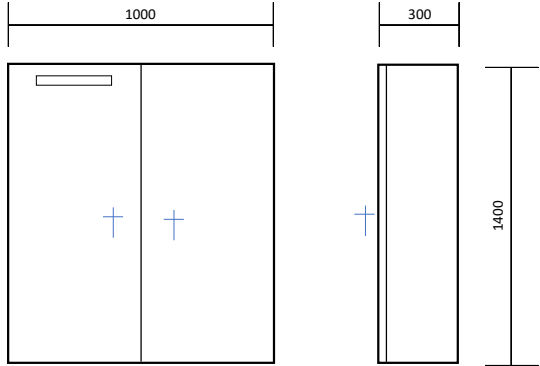
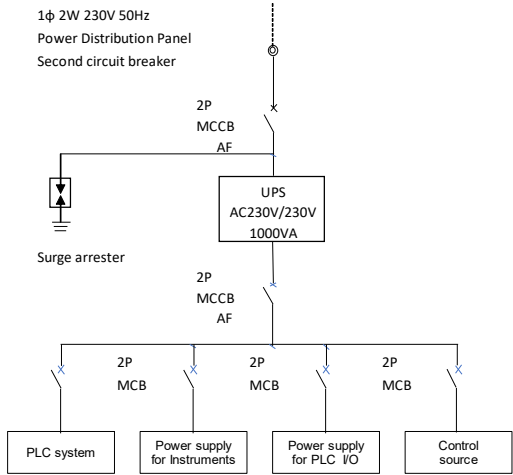
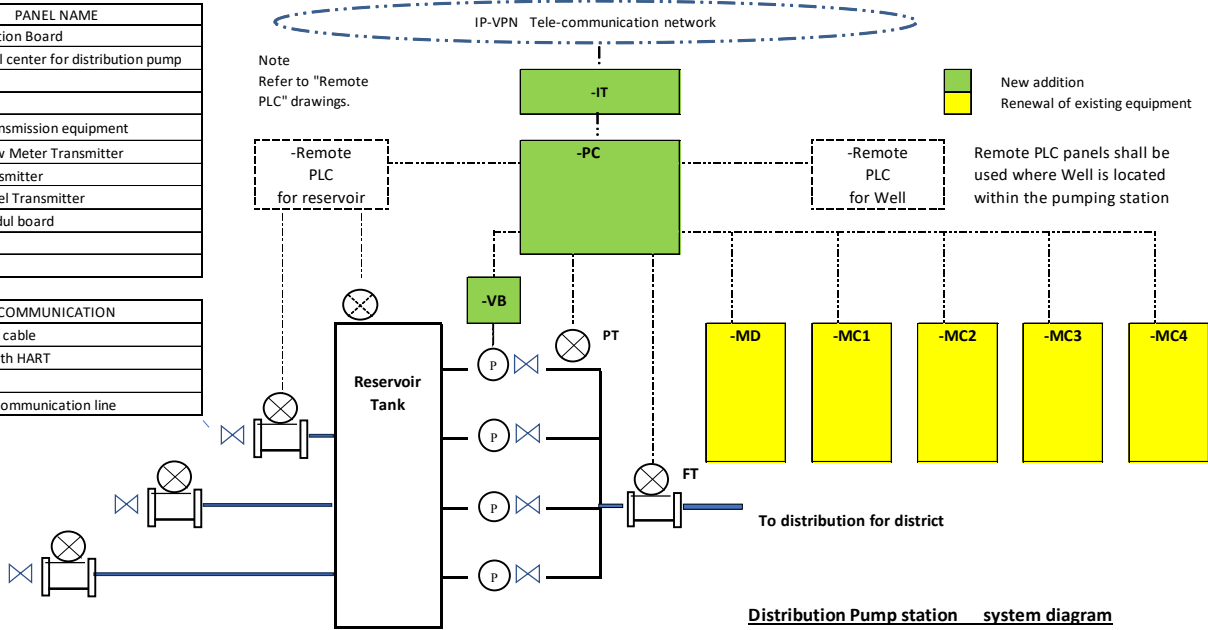
Panel sizes are for reference only.  
Installation location: Pump Station Electrical Room

REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE		WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  Distribution pump panel (SS type) for PS	SCALE :	APPROVED BY :
					N/S	PREPARED BY :
					DRAWING NO. :	CHECKED BY :
					E-04	DATE :



Symbols	PANEL NAME
MD	Main Distribution Board
MC	Motor control center for distribution pump
PC	PLC Panel
IT	Internet T transmission equipment
FT	Magnetic Flow Meter Transmitter
PT	Pressure Transmitter
LT	Reservoir Level Transmitter
VB	Vibration modul board

Symbols	COMMUNICATION
	Control wire cable
	Analog line with HART
	Ethernet line
	IP/VPN Tele-communication line



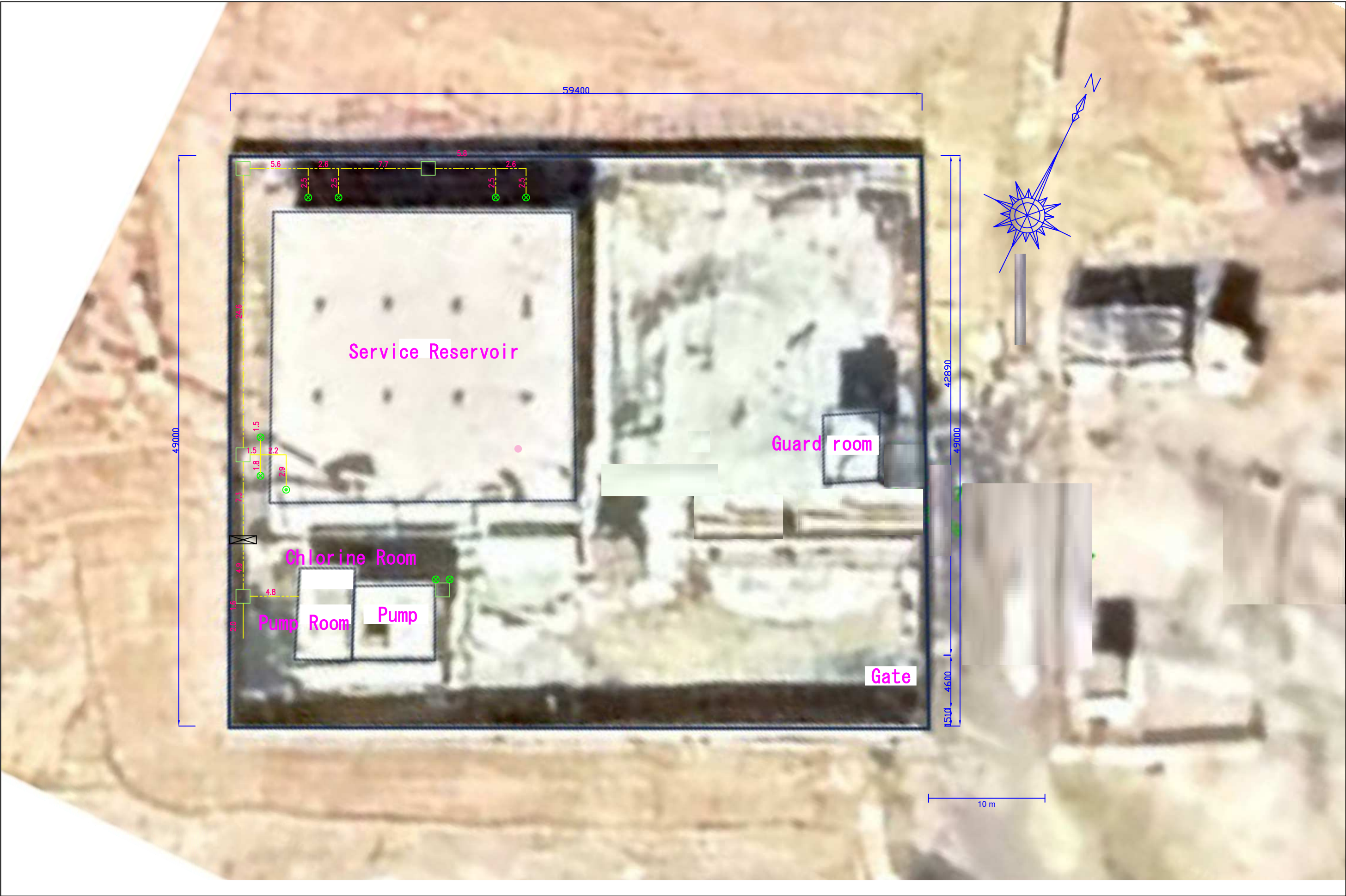
Electrical equipments signal list						
Symbol	Equipment name	Q'ty	Digital input/output signal		Analog input/output signal	
-MD	Power Distribution Panel	1	DI	Receiving Panel MCCB on	AI	Power usage Kw/h
			DI	Receiving Panel MCCB fault	AI	Receiving voltage V
			DI	Electrical equipment fault	AI	Receiving current A
					AI	Frequency Hz
					AI	Power factor PF
-MC1 1~4	Pump Control Panel	4	DI	Distribution Pump Remote	AI	Power usage Kw/h
			DI	Distribution Pump Start read	AI	Pump voltage V
			DI	Distribution Pump Run	AI	Pump current A
			DI	Distribution Pump Fault	AI	pump frequency Hz
			DI	VFD Fault	AI	pump power factor PF
			DI	Motor temprature high	AI	Pump speed min-1
			DI	Vibration Abnormal		
			DI	Reserver level Low		
			DO	Start	AO	Pump rotation set min-1
			DO	Stop		



Measure Instrument equipments signal list				
Symbol	Equipment name	Q'ty	Analog input signal	
LT	Ultrasonic Level Measurements	1	Reservoir water level	m
PT	Pressure monitoring device	1	Distribution pump discharge pressure	m
FT	Electromagnetic Flow Meters	1	Distribution pump discharge flow	m3/Hr
FT	Electromagnetic Flow Meters			m3/Hr
FT	Electromagnetic Flow Meters			m3/Hr
FT	Electromagnetic Flow Meters			m3/Hr
FT	Electromagnetic Flow Meters			m3/Hr

PLC Panel Specification			
Item	Specification	Item	Specification
Item No.	P□-□-□PS□-RPLC	Internal electrical equipment	3PMCB, Approx. 5 pcs. Surge arrester for instruments Control cabinet socket Power supply 24V DC supply Fuse modular terminal, Approx. 5 pcs. Panel view graphic terminal Ethernet switch PLC system (including DIO/AIO) Analog signal-repeater power supply IT communication device Relay, Timer, Alarm setter, FAN (cooling), Panel light, Others required
Panel Name	PLC Panel		Standard; ■JIS/JEC/JEM / ■IEC / □BS / □OTHER
Bord Type	Metal clad enclosure in door use, doors in the front and double door		Indoor panels; Dust & Vermin proof with air filter
Power supply	Operation voltage: AC400V Control voltage: AC230V		Steel thickness; not less than 2.3mm. Door & Inside plate; not less than 3.2mm. Accessory; ■Foundation bolts / ■Channel base / ■Touch-up paint / ■Panel key /
Power supply circuit	2PMCCB, Approx. 2 pcs. Surge arrester UPS 1000VA Input AC230V Output AC230V	Technical general	

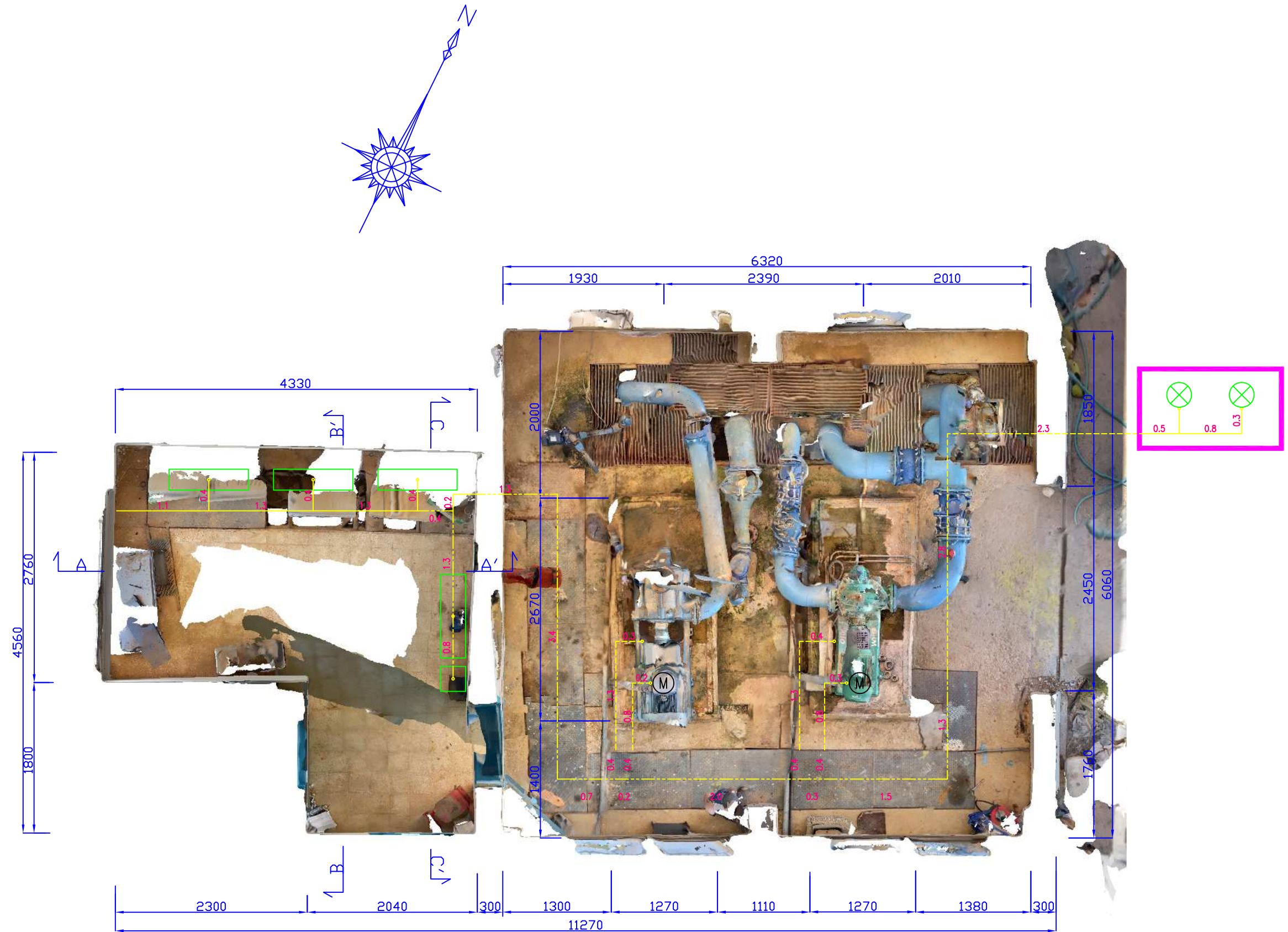
Panel sizes are for reference only.  
Installation location: Pump Station Electrical Room



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  PLC Panel (main type) for PS	SCALE :	APPROVED BY :
				N/S	PREPARED BY :
				DRAWING NO. : E-05	CHECKED BY :
					DATE :



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	 TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  P1-1-PS1 Samneh PS of General Layout Plan	SCALE :	APPROVED BY :
					S=1:300 (A3)	PREPARED BY :
					DRAWING NO. :	CHECKED BY :
					G-02	DATE :







REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	 TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  P1-1-PS1 Samneh PS of Pump room	SCALE :	APPROVED BY :
					S=1:50 (A3)	PREPARED BY :
					DRAWING NO. :	CHECKED BY :
					M-01	DATE :



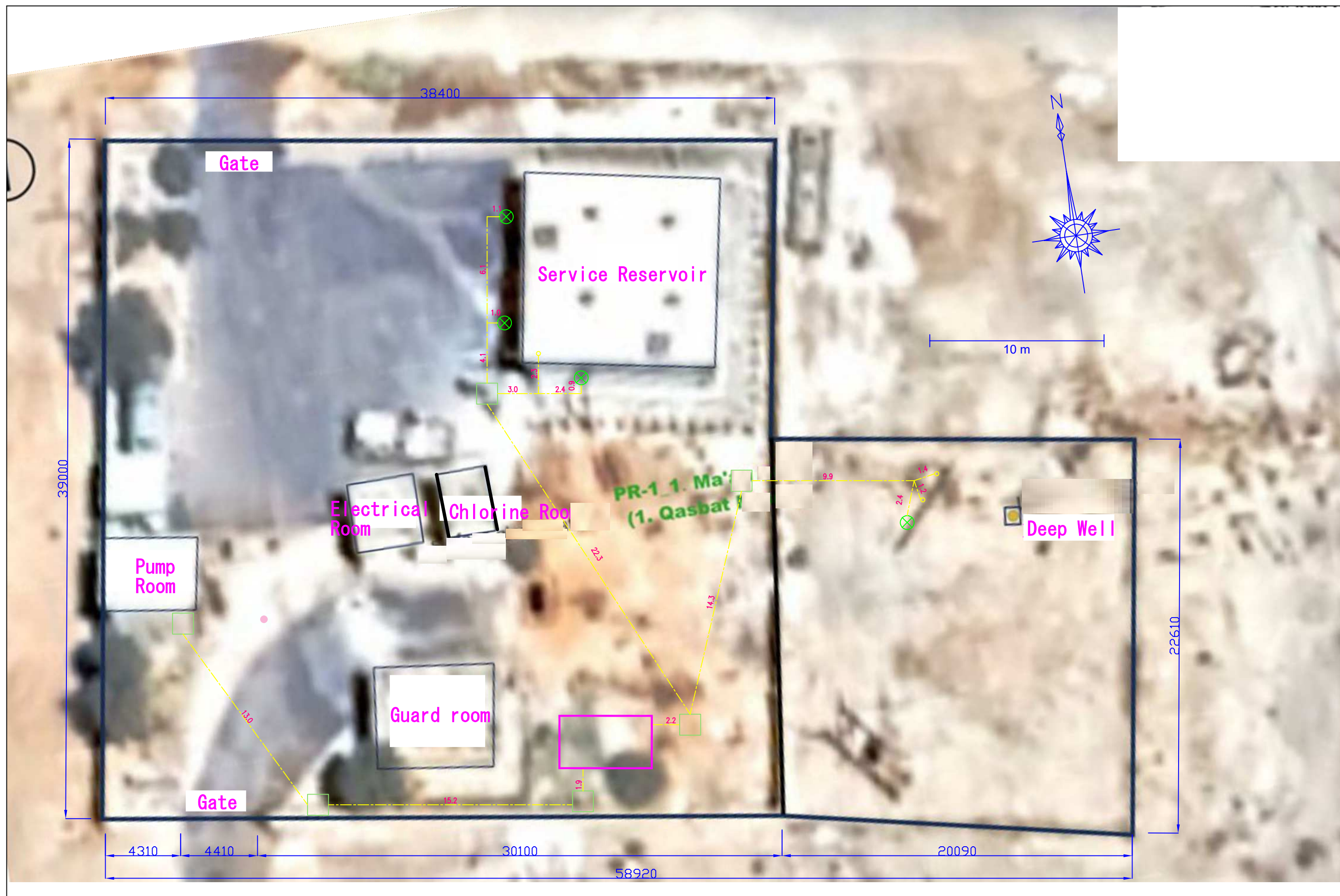


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	 TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  P1-1-PS2 Tahouneh PS of General Layout Plan	SCALE :	APPROVED BY :
					S=1:300 (A3)	PREPARED BY :
					DRAWING NO. :	CHECKED BY :
					G-03	DATE :











REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	<div data-bbox="1219 1885 1279 2016"> </div> <div data-bbox="1344 1885 1611 1955"> WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC) </div> <div data-bbox="1219 1955 1279 2016"> </div> <div data-bbox="1344 1955 1611 2016"> TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD. </div>	TITLE :  P1-1-PS3 Sath Maan PS of General Layout Plan	SCALE : S=1:200 (A3)  DRAWING NO. : G-04A	APPROVED BY :  PREPARED BY :  CHECKED BY :  DATE :
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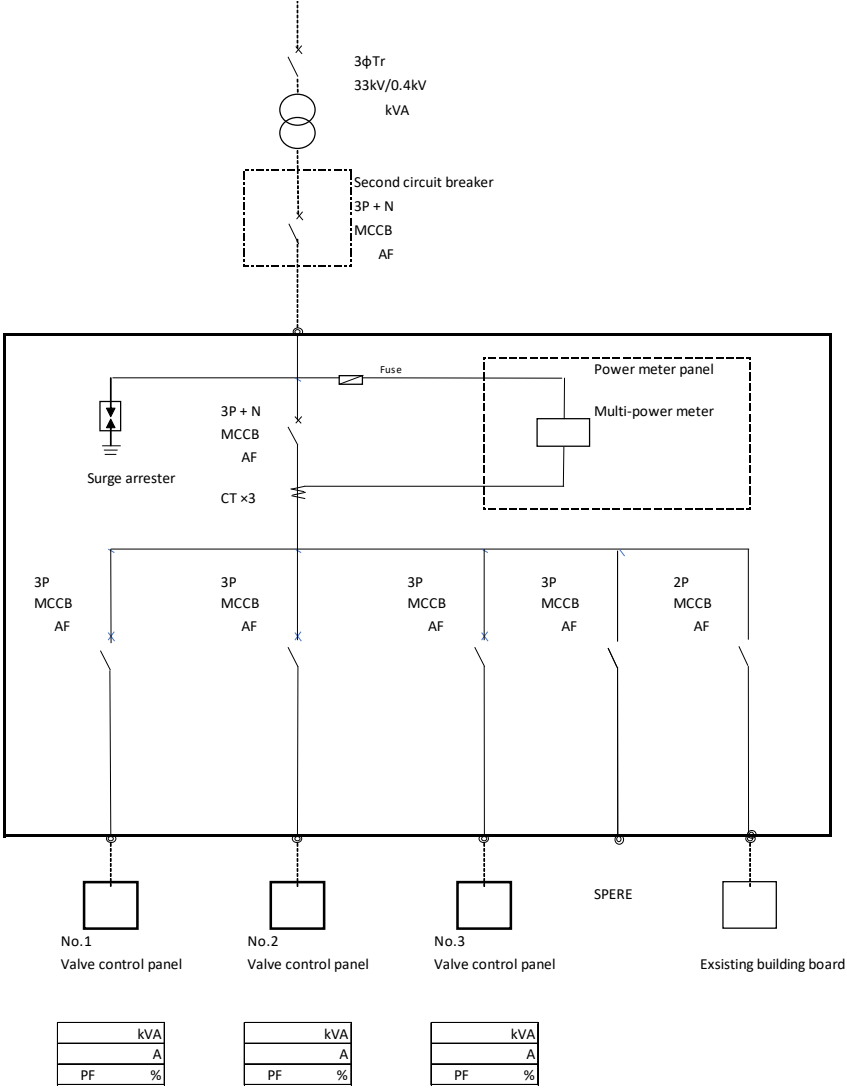


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	<div><div><div>WATER AUTHORITY OF JORDAN (Waj), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div></div><div><div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div></div></div> <td data-bbox="1694 1881 2329 2030">TITLE :  P1-1-PS3 Sath Maan PS of Pump room</td> <td data-bbox="2329 1881 2543 2030">SCALE : S=1:60 (A3)  DRAWING NO. : M-03</td> <td data-bbox="2543 1881 2896 2030">APPROVED BY :  PREPARED BY :  CHECKED BY :  DATE :</td>	TITLE :  P1-1-PS3 Sath Maan PS of Pump room	SCALE : S=1:60 (A3)  DRAWING NO. : M-03	APPROVED BY :  PREPARED BY :  CHECKED BY :  DATE :
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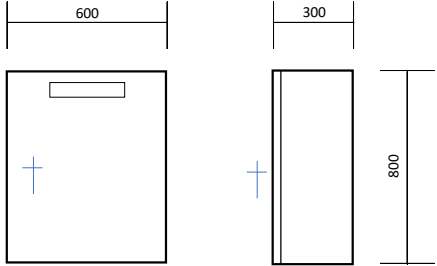


SYMBOL	DESCREPTION
	AC votage meter
	AC current meter
	Molded Case Circuit Breaker
	Magnet Contactor
	Thermal over current protection device
	Current transformer

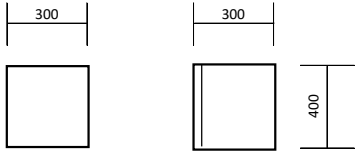
Motor Capacity	Main MCCB	Valve ELCB
0.75	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
1.5	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
3.7	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
5.5	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
7.5	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
11	3P MCCB 50AF/40AT	3P ELCB 50AF/40AT
15	3P MCCB 50AF50AT	3P ELCB 50AF50AT



Power distribution panel Single line diagram



Power distribution panel Panel Outline



Power meter panel Panel Outline

Note  
External dimensions are for reference only.  
The power meter shall be installed in the power distribution panel.  
Spare 3PMCCBs shall be installed.

Note  
Power meter panels shall be installed when the existing power distribution panel does not need to be replaced.

Power distribution panel Specification

Item	Specification	Item	Specification
Item No.	P□-□-R□-MD	Internal electrical equipment	1PMCB, Approx. 3 pcs. Fuse modular terminal, Approx. 3 pcs. Others required
Panel Name	Power distribution panel		
Bord Type	Metal clad enclosure in door use, doors in the front and double door		
Power supply	Operation voltage: AC400V	Technical general	Standard: ■JIS/JEC/JEM./■IEC/□BS/□OTHER Indoor panels Steel thickness; not less than 2.3mm. Door & Inside plate; not less than 2.3mm. Accessory; □Foundation bolts/□Channel base/■Touch-up paint/■Panel key/
Power supply circuit	3PMCCB, Approx. 4 pcs. Surge arrester 2PMCCB, Approx. 1 pcs. Multi-power meter		

Panel sizes are for reference only.  
Installation location: Pump Station Electrical Room

REMARKS :

THE PROJECT FOR THE INTRODUCTION OF  
WATER SUPPLY CONTROL SYSTEM  
IN MA'AN GOVERNORATE



WATER AUTHORITY OF JORDAN (WAJ),  
MINISTRY OF WATER AND IRRIGATION,  
THE HASHEMITE KINGDOM OF JORDAN  
AQABA WATER COMPANY (AWC)  
  
TEC INTERNATIONAL CO.,LTD.  
PACIFIC CONSULTANTS CO., LTD.

TITLE :

Power distribution panel for  
SR

SCALE :

N/S

DRAWING NO. :







E-06

APPROVED BY :

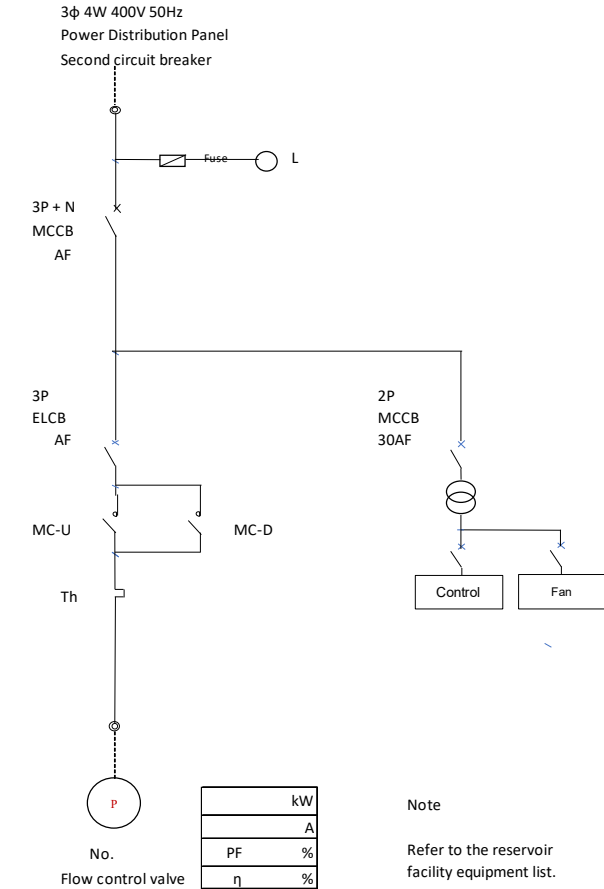
PREPARED BY :

CHECKED BY :

DATE :

SYMBOL	DESCREPTION
	AC votage meter
	AC current meter
	Molded Case Circuit Breaker
	Magnet Contactor
	Thermal over current protection device
	Current transformer

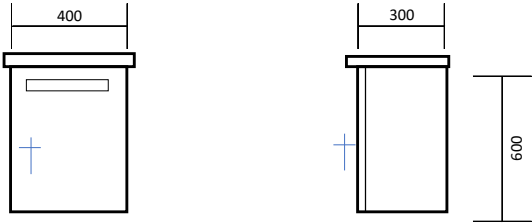
Motor Capacity	Main MCCB	Valve ELCB
0.75	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
1.5	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
3.7	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
5.5	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
7.5	3P MCCB 50AF/30AT	3P ELCB 50AF/30AT
11	3P MCCB 50AF/40AT	3P ELCB 50AF/40AT
15	3P MCCB 50AF50AT	3P ELCB 50AF50AT



Valve control panel      Single line diagram

**Note**

Refer to the reservoir facility equipment list.



## Valve Control Panel    Panel Outline

### Valve control panel      Specification

Item	Specification	Item	Specification
Item No.	P□-□-R□-VP	Internal electrical equipment	1PMCB, Approx. 5 pcs. Control cabinet socket Power supply Fuse modular terminal, Approx. 5 pcs.  Relay, Timer, Others required
Panel Name	Valve control panel		
Bord Type	Metal clad enclosure in door use, doors in the front and double door		
Power supply	Operation voltage: AC400V		
Power supply circuit	3PMCCB, Approx. 2 pcs.  Surge arrester 2PMCCB Transformer Magnet contactor, Approx. 2 pcs. Thermal over current protection device	Technical general	Standard; ■JIS,JEC,JEM/■IEC/□BS/□OTHER Indoor panels; Steel thickness; not less than 2.3mm . Door & Inside plate; not less than 3.2mm. Accessory; ■Foundation bolts/■Channel base/■Touch-up paint/■Panel key/

Panel sizes are for reference only.  
Installation location: Near wall of outdoor reservoir tank

REMARKS :

THE PROJECT FOR THE INTRODUCTION OF  
WATER SUPPLY CONTROL SYSTEM  
IN MA'AN GOVERNORATE



WATER AUTHORITY OF JORDAN (WAJ),  
MINISTRY OF WATER AND IRRIGATION,  
THE HASHEMITE KINGDOM OF JORDAN  
AQABA WATER COMPANY (AWC)

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TEC INTERNATIONAL CO.,LTD.  
PACIFIC CONSULTANTS CO., LTD

**TITLE :**

## Valve control panel for SR

**SCALE :**

N/S

DRAWING NO. :

E-07

**APPROVED BY :**

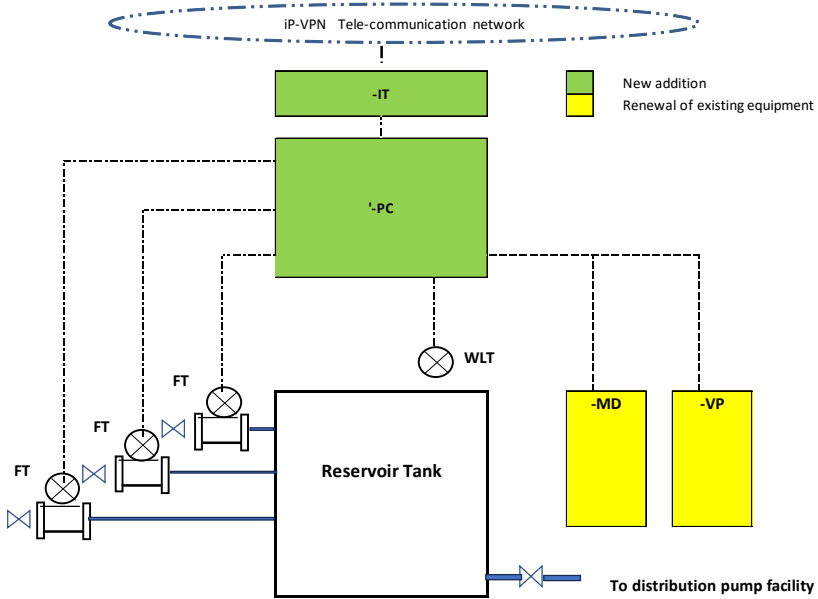
**PREPARED BY :**

**CHECKED BY :**

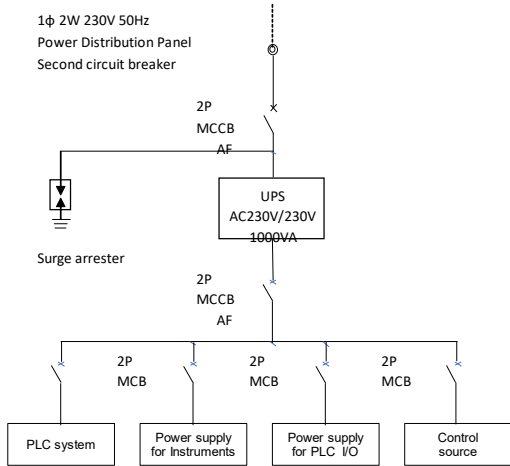
**DATE :**

Symbols	PANEL NAME
MD	Main Distribution Board
WP	Motor control center for well pump
PC	PLC Panel
IT	Internet T transmission equipment
FT	Magnetic Flow Meter Transmitter
PT	Pressure Transmitter
WLT	Reservoir Level Transmitter
VB	Vibration modul board

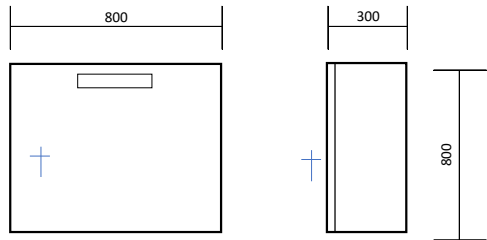
Symbols	COMMUNICATION
	Control waire cable
	Analog line with HART
	Ethernet line
	IP/VPN Tele-communication line



Distribution Pump station system diagram



PLC panel Single line diagram



PLC Panel Outline

Electrical equipments signal list						
Symbol	Equipment name	Q'ty	Digital input/output signal		Analog input/output signal	
-MD	Power Distribution Panel	1	DI	Receiving Panel MCCB on	AI	Power usage
			DI	Receiving Panel MCCB fault	AI	Receiving voltage
			DI	Electrical equipment fault	AI	Receiving current
					AI	Frequency
					AI	Power factor
-MC	Valve Control Panel	1	DI	Well Pump Remote	AI	Power usage
			DI	Well Pump Start ready	AI	Pump voltage
			DI	Well Pump Run	AI	Pump current
			DI	Well Pump Fault	AI	pump frequency
			DI	VFD Fault	AI	pump power factor
			DI	Well water level Low	AI	Pump speed
			DI	MCCB status		
			DI	MCCB trip		
			DO	Start	AO	Pump rotation set
			DO	Stop		

Measure Instrument equipments signal list						
Symbol	Equipment name	Q'ty	Analog input signal			
LT	Ultrasonic Level Measurements	1	Reservoir water level			m
FT	Electromagnetic Flow Meters	1	Rservoir inline flow			m3/Hr
FT	Electromagnetic Flow Meters	1	Rservoir inline flow			m3/Hr
FT	Electromagnetic Flow Meters	1	Rservoir inline flow			m3/Hr


PLC Panel Specification			
Item	Specification	Item	Specification
Item No.	P□-□-R□-PC	Internal electrical equipment	1PMCB, Approx. 5 pcs. Control cabinet socket Power supply 24V DC supply Fuse modular terminal, Approx. 5 pcs. Panel view graphic terminal Ethernet switch PLC system (including DIO/AIO) Analog signal-repeater power supply IT communication device Relay, Timer, Alarm setter, FAN (cooling), Panel light, Others required
Panel Name	PLC Panel		
Bord Type	Metal clad enclosure in door use, doors in the front and double door		
Power supply	Operation voltage: AC400V Control voltage: AC230V		
Power supply circuit	2PMCCB, Approx. 2 pcs. Surge arrester UPS 1000VA Input AC230V Output AC230V	Technical general	Standard: ■JIS,IEC,JEM / ■IEC / □BS / □OTHER Indoor panels; Dust & Vermin proof with air filter Steel thickness; not less than 2.3mm. Door & Inside plate; not less than 3.2mm. Accessory: ■Foundation bolts / ■Channel base / ■Touch-up paint / ■Panel key /

Panel sizes are for reference only.  
Installation location: Reservoir facility Electrical Room

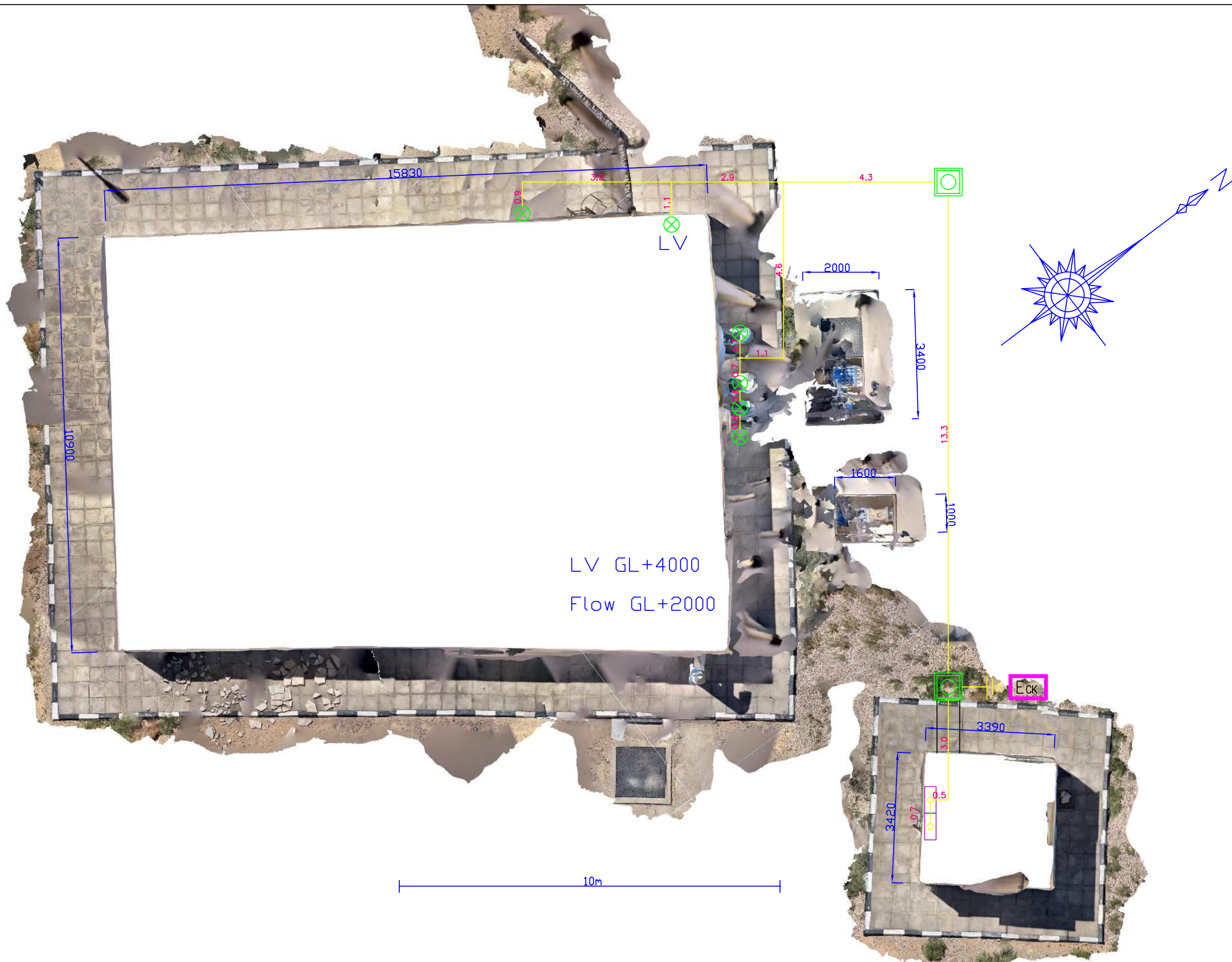
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  PLC Panel for SR	SCALE :	APPROVED BY :
				N/S	PREPARED BY :
				DRAWING NO. : E-08	CHECKED BY :
					DATE :





REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-R4 Old Tahouneh SR of Location Map	SCALE :	APPROVED BY :
				N/S	PREPARED BY :
				DRAWING NO. :	CHECKED BY :
				G-04B	DATE :

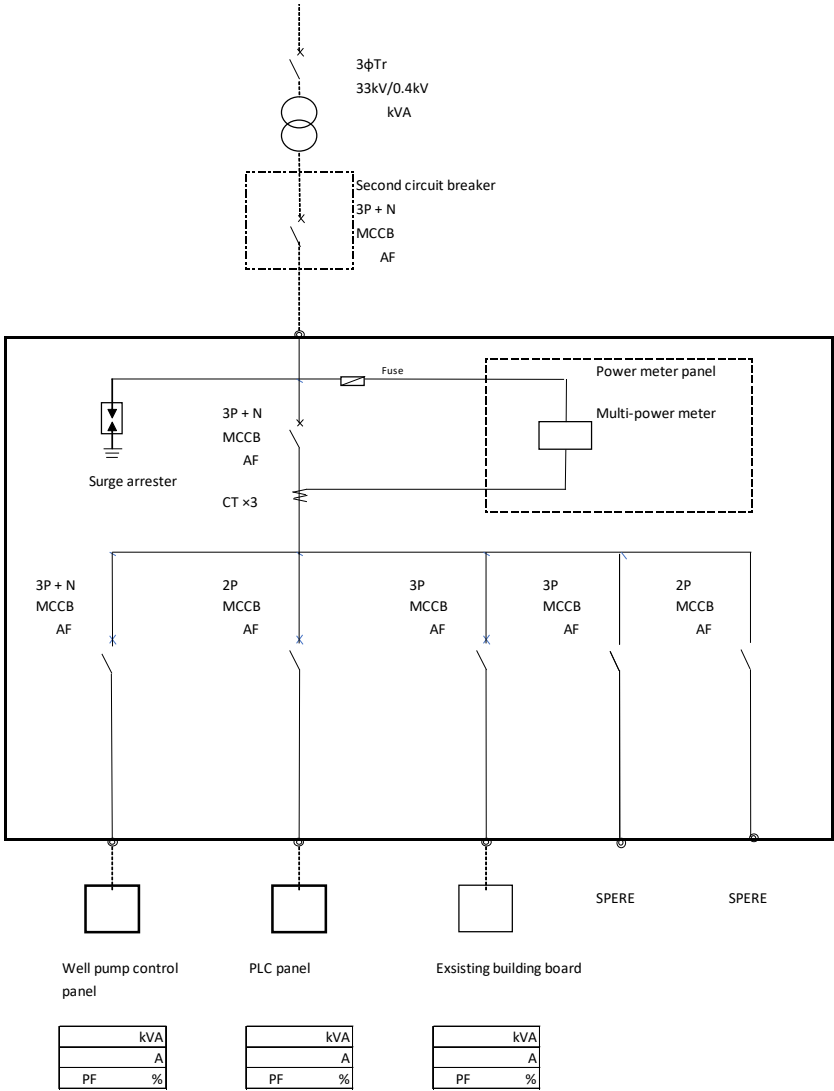




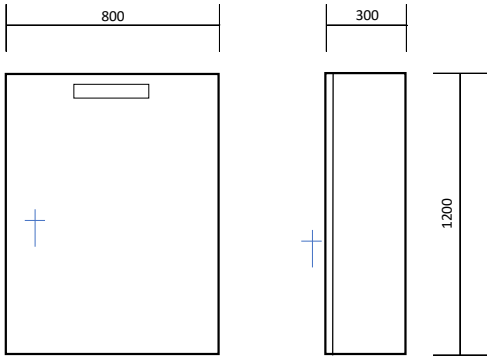
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	<div><div></div><div>WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div></div>	TITLE :  P1-1-R4 Old Tahouneh SR of General Layout Plan	SCALE : S=1:100 (A3)	APPROVED BY :
		<div><div>TEC</div><div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div></div>		DRAWING NO. : G-05	PREPARED BY :
					CHECKED BY :
					DATE :

SYMBOL	DESCREPTION
	AC votage meter
	AC current meter
	Molded Case Circuit Breaker
	Magnet Contactor
	Thermal over current protection device
	Current transformer

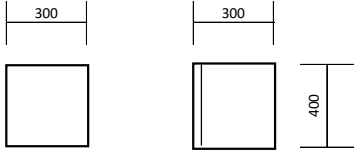
Motor Capacity	Main MCCB	Pump MCCB
7.5	3P+N MCCB	3P MCCB 50AF/30AT
11	3P+N MCCB	3P MCCB 50AF/40AT
15	3P+N MCCB	3P MCCB 50AF50AT
18.5	3P+N MCCB	3P MCCB 100AF/75AT
22	3P+N MCCB	3P MCCB 100AF/100AT
37	3P+N MCCB	3P MCCB 225AH/125AT
45	3P+N MCCB	3P MCCB 225AF/150AT
55	3P+N MCCB	3P MCCB 225AF/175AT
75	3P+N MCCB	3P MCCB 225AF/225AT
90	3P+N MCCB	3P MCCB 400AF/250AT
110	3P+N MCCB	3P MCCB 400AF/300AT
132	3P+N MCCB	3P MCCB 400AF/300AT
150	3P+N MCCB	3P MCCB 400AF/400AT
180	3P+N MCCB	3P MCCB 400AF/400AT
220	3P+N MCCB	3P MCCB 600AF/500AT



Power distribution panel Single line diagram



Power distribution panel Panel Outline



Power meter panel Panel Outline

Note  
External dimensions are for reference only.  
The power meter shall be installed in the power distribution panel.  
Spare 3PMCCBs and 2PMCCBs shall be installed.

Note  
Power meter panels shall be installed when the existing power distribution panel does not need to be replaced.

Power distribution panel Specification

Item	Specification	Item	Specification
Item No.	P□-□-□W□-MD	Internal electrical equipment	1PMCB, Approx. 3 pcs. Fuse modular terminal, Approx. 3 pcs. Others required
Panel Name	Power distribution panel		
Bord Type	Metal clad enclosure in door use, doors in the front and double door		
Power supply	Operation voltage: AC400V	Technical general	Standard; ■JIS,JEC,JEM/■IEC/□BS/□OTHER Indoor panels Steel thickness; not less than 2.3mm. Door & Inside plate; not less than 2.3mm. Accessory; □Foundation bolts/□Channel base/■Touch-up paint/■Panel key /
Power supply circuit	3PMCCB, Approx. 3 pcs. Surge arrester 2PMCCB, Approx. 2 pcs. Multi-power meter		

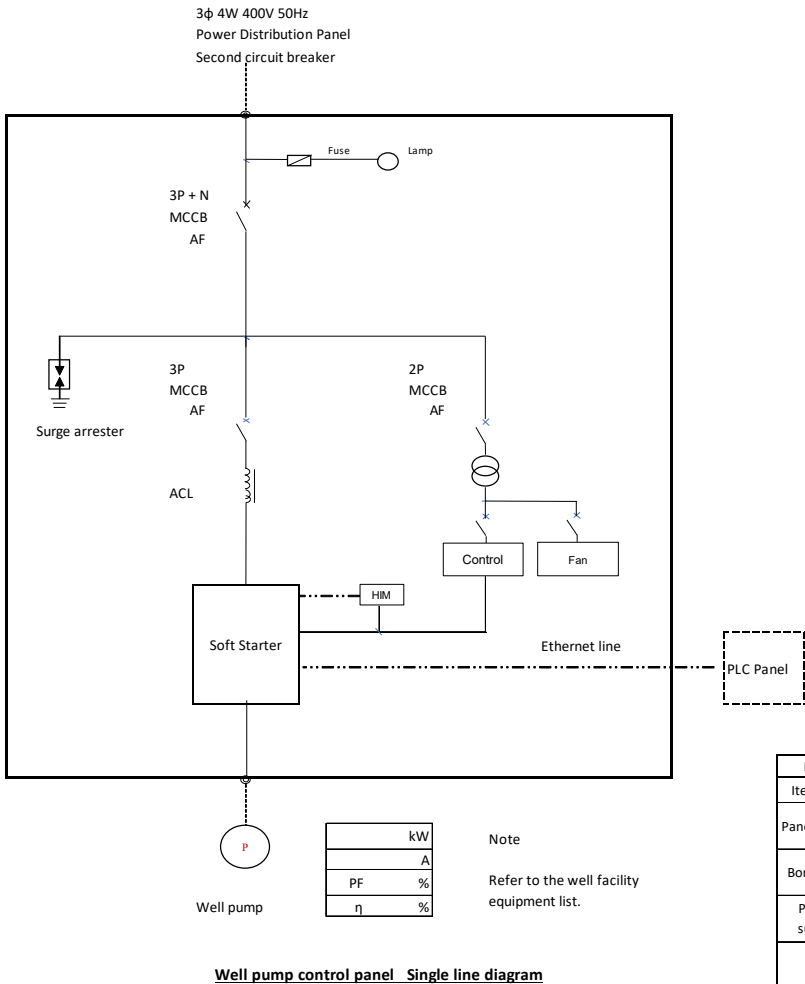
Panel sizes are for reference only.  
Installation location: Pump Station Electrical Room

REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	 TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  Power distribution panel for Well	SCALE :	APPROVED BY :
					N/S	PREPARED BY :
					DRAWING NO. : E-09	CHECKED BY :
						DATE :

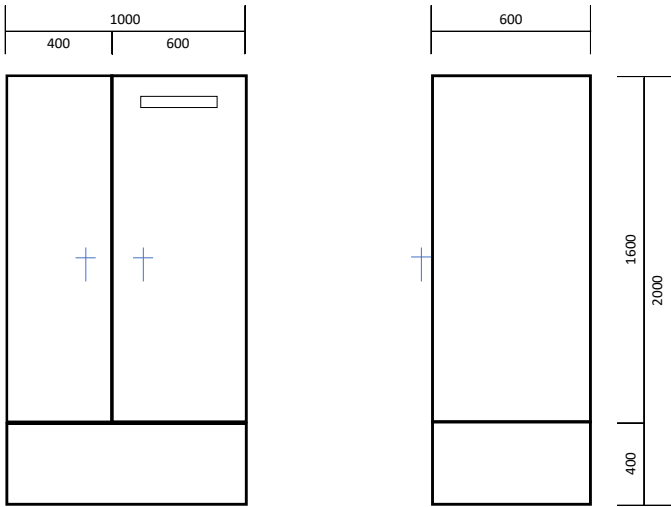


SYMBOL	DESCREPTION
	AC votage meter
	AC current meter
	Molded Case Circuit Breaker
	Magnet Contactor
	Thermal over current protection device
	Current transformer

Motor Capacity	Main MCCB	Pump MCCB	Soft Starter	VFD
7.5	3P+N MCCB	3P MCCB 50AF/30AT		
11	3P+N MCCB	3P MCCB 50AF/40AT		
15	3P+N MCCB	3P MCCB 50AF50AT		
18.5	3P+N MCCB	3P MCCB 100AF/75AT		
22	3P+N MCCB	3P MCCB 100AF/100AT		
37	3P+N MCCB	3P MCCB 225AH/125AT		
45	3P+N MCCB	3P MCCB 225AF/150AT		
55	3P+N MCCB	3P MCCB 225AF/175AT		
75	3P+N MCCB	3P MCCB 225AF/225AT		
90	3P+N MCCB	3P MCCB 400AF/250AT		
110	3P+N MCCB	3P MCCB 400AF/300AT		
132	3P+N MCCB	3P MCCB 400AF/300AT		
150	3P+N MCCB	3P MCCB		
180	3P+N MCCB	3P MCCB		
220	3P+N MCCB	3P MCCB		



Well pump control panel Single line diagram



Well pump control panel Panel Outline  
(180kW type for reference)

Well pump control panel Specification

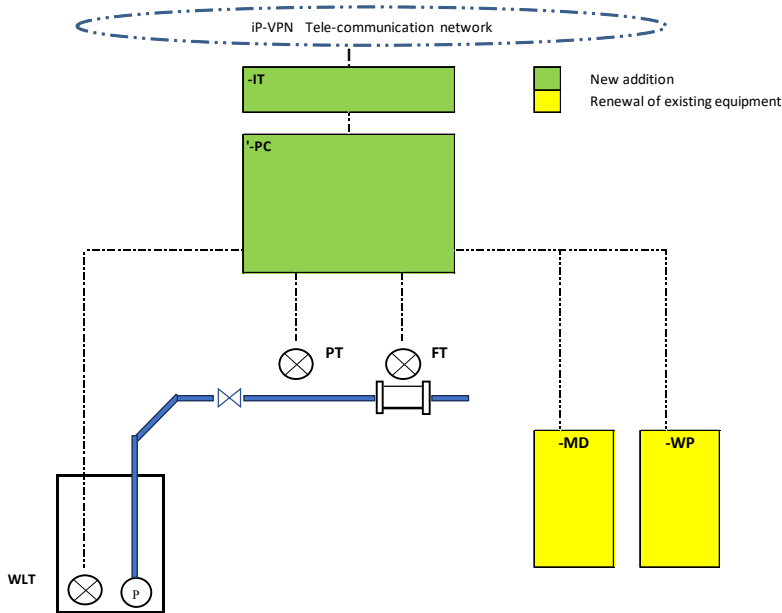
Item	Specification	Item	Specification
Item No.	P□-□-□W□-WP	Internal electrical equipment	1PMCБ, Approx. 5 pcs. Control cabinet socket Power supply 24V DC supply Fuse modular terminal, Approx. 5 pcs. HIM Ethernet switch Relay, Timer, Alarm setter, FAN (cooling), Panel light, Others required
Panel Name	Well pump control panel		
Bord Type	Metal clad enclosure in door use, doors in the front and double door		
Power supply	Operation voltage: AC400V Control voltage: AC230V		
Power supply circuit	3PMCCB, Approx. 2 pcs. Surge arrester 2PMCCB Transformer ACL VFD	Technical general	Standard; ■JIS, JEC, JEM / ■IEC / □BS / □OTHER Indoor panels; Dust & Vermin proof with air filter Steel thickness; not less than 2.3mm. Door & Inside plate; not less than 3.2mm. Accessory; ■Foundation bolts / ■Channel base / ■Touch-up paint / ■Panel key /

Panel sizes are for reference only.  
Installation location: Pump Station Electrical Room

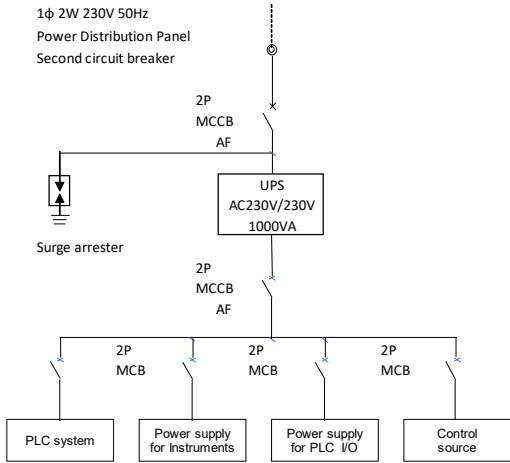
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  Well pump control panel (SS type) for Well	SCALE :	APPROVED BY :
				N/S	PREPARED BY :
				DRAWING NO. : E-10	CHECKED BY :
					DATE :

Symbols	PANEL NAME
MD	Main Distribution Board
WP	Motor control center for well pump
PC	PLC Panel
IT	Internet T transmission equipment
FT	Magnetic Flow Meter Transmitter
PT	Pressure Transmitter
WLT	Reservoir Level Transmitter
VB	Vibration modul board

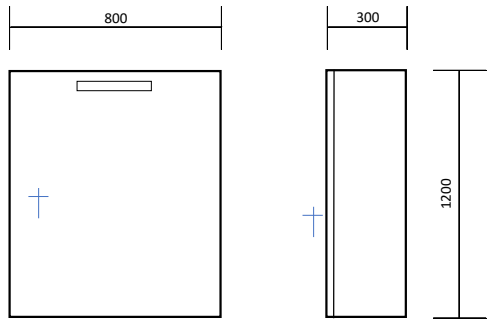
Symbols	COMMUNICATION
---HART	Analog line with HART
---Ethernet	Ethernet line
---IP/VPN	IP/VPN Tele-communication line



Distribution Pump station system diagram



PLC panel Single line diagram




PLC Panel Outline

Electrical equipments signal list						
Symbol	Equipment name	Q'ty	Digital input/output signal		Analog input/output signal	
-MD	Power Distribution Panel	1	DI	Receiving Panel MCCB on	AI	Power usage
			DI	Receiving Panel MCCB fault	AI	Receiving voltage
			DI	Electrical equipment fault	AI	Receiving current
					AI	Frequency
-MC	Well Pump Control Panel	1			AI	Power factor
			DI	Well Pump Remote	AI	Power usage
			DI	Well Pump Start ready	AI	Pump voltage
			DI	Well Pump Run	AI	Pump current
			DI	Well Pump Fault	AI	pump frequency
			DI	VFD Fault	AI	pump power factor
			DI	Well water level Low	AI	Pump speed
			DI	MCCB status		
			DI	MCCB trip		
			DO	Start	AO	Pump rotation set
			DO	Stop		

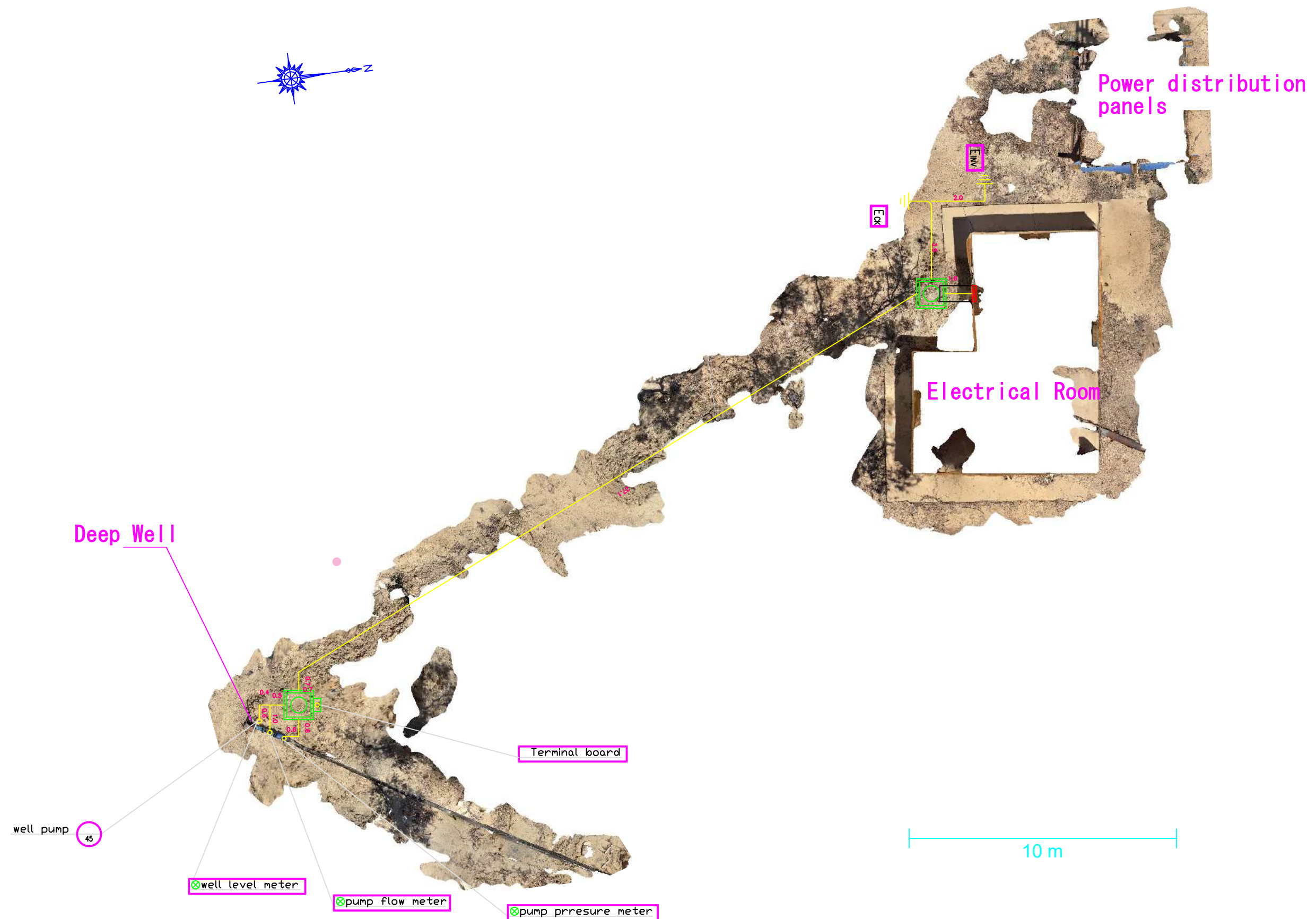
Measure Instrument equipments signal list				
Symbol	Equipment name	Q'ty	Analog input signal	
LT	Ultrasonic Level Measurements	1	Well water level	m
PT	Pressure monitoring device	1	Well pump discharge pressure	m
FT	Electromagnetic Flow Meters	1	Well pump discharge flow	m3/Hr

PLC Panel Specification			
Item	Specification	Item	Specification
Item No.	P□-□□W□-PC	Internal electrical equipment	1PMCB, Approx. 15 pcs. Control cabinet socket Power supply 24V DC supply Fuse modular terminal, Approx. 10 pcs. Panel view graphic terminal Ethernet switch PLC system (including DIO/AIO) Analog signal-repeater power supply IT communication device Relay, Timer, Alarm setter, FAN (cooling), Panel light, Others required
Panel Name	PLC Panel		
Bord Type	Metal clad enclosure in door use, doors in the front and double door		
Power supply	Operation voltage: AC400V Control voltage: AC230V		
Power supply circuit	2PMCCB, Approx. 2 pcs. Surge arrester UPS 1000VA Input AC230V Output AC230V	Technical general	Standard; ■IIS, JEC, JEM / ■IEC / □BS / □OTHER Indoor panels; Dust & Vermin proof with air filter Steel thickness; not less than 2.3mm. Door & Inside plate; not less than 3.2mm. Accessory; ■Foundation bolts / ■Channel base / ■Touch-up paint / ■Panel key /

Panel sizes are for reference only.  
Installation location: Pump Station Electrical Room

REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  PLC Panel for Well	SCALE :	APPROVED BY :
				N/S	PREPARED BY :
				DRAWING NO. :	CHECKED BY :
				E-11	DATE :





REMARKS :

THE PROJECT FOR THE INTRODUCTION OF  
WATER SUPPLY CONTROL SYSTEM  
IN MA'AN GOVERNORATE



WATER AUTHORITY OF JORDAN (W.A.J.),  
MINISTRY OF WATER AND IRRIGATION,  
THE HASHEMITE KINGDOM OF JORDAN  
AQABA WATER COMPANY (AWC)

TEC INTERNATIONAL CO.,LTD.  
PACIFIC CONSULTANTS CO., LTD.

TITLE :

P1-1-W1 Tahouna 2 Well of  
General Layout Plan

SCALE :

S=1:150 (A3)

DRAWING NO. :

G-06

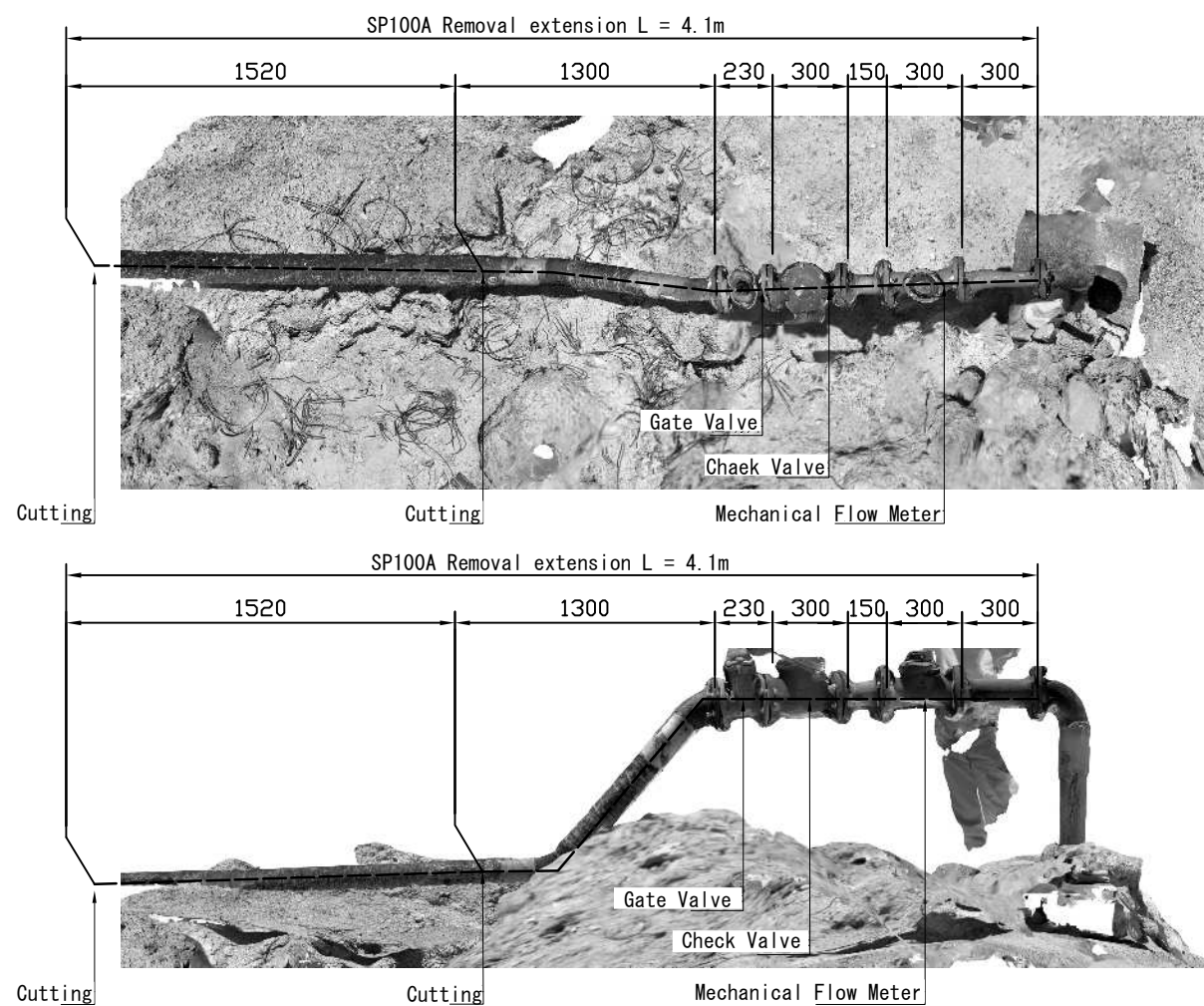
APPROVED BY :

PREPARED BY :

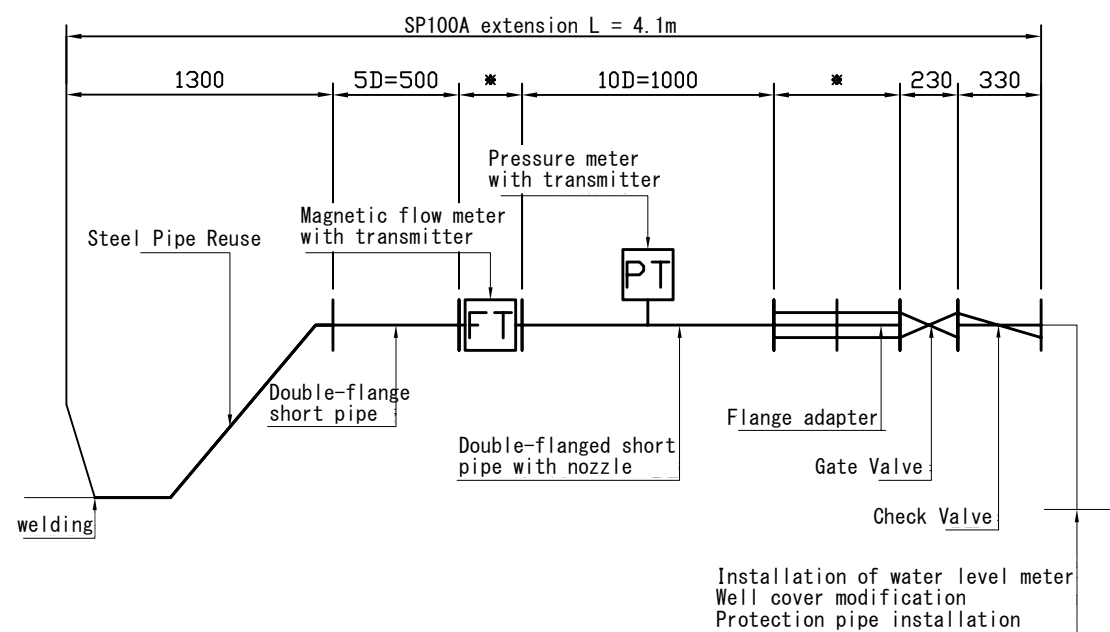
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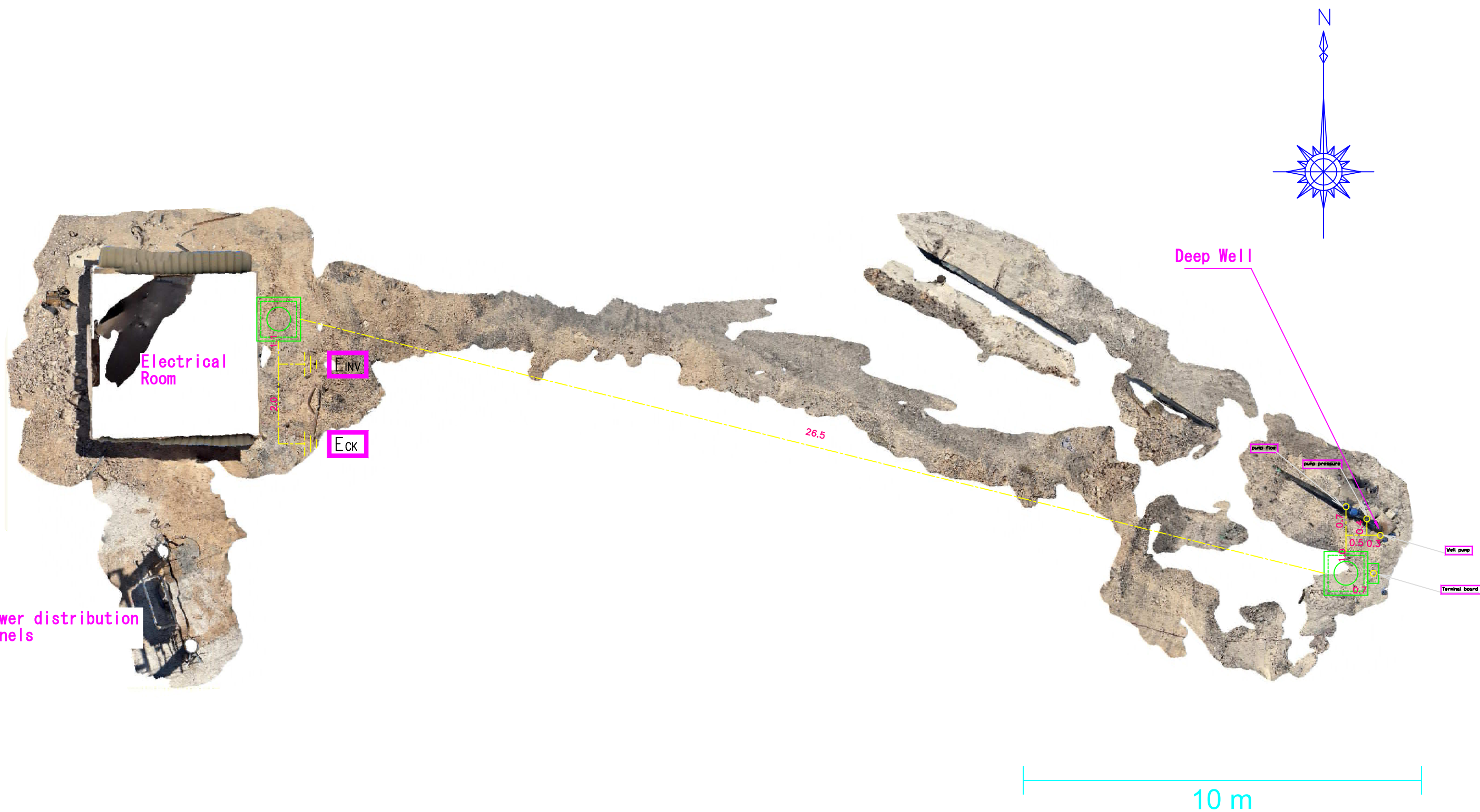
Piping removal work




Piping - Equipment installation work



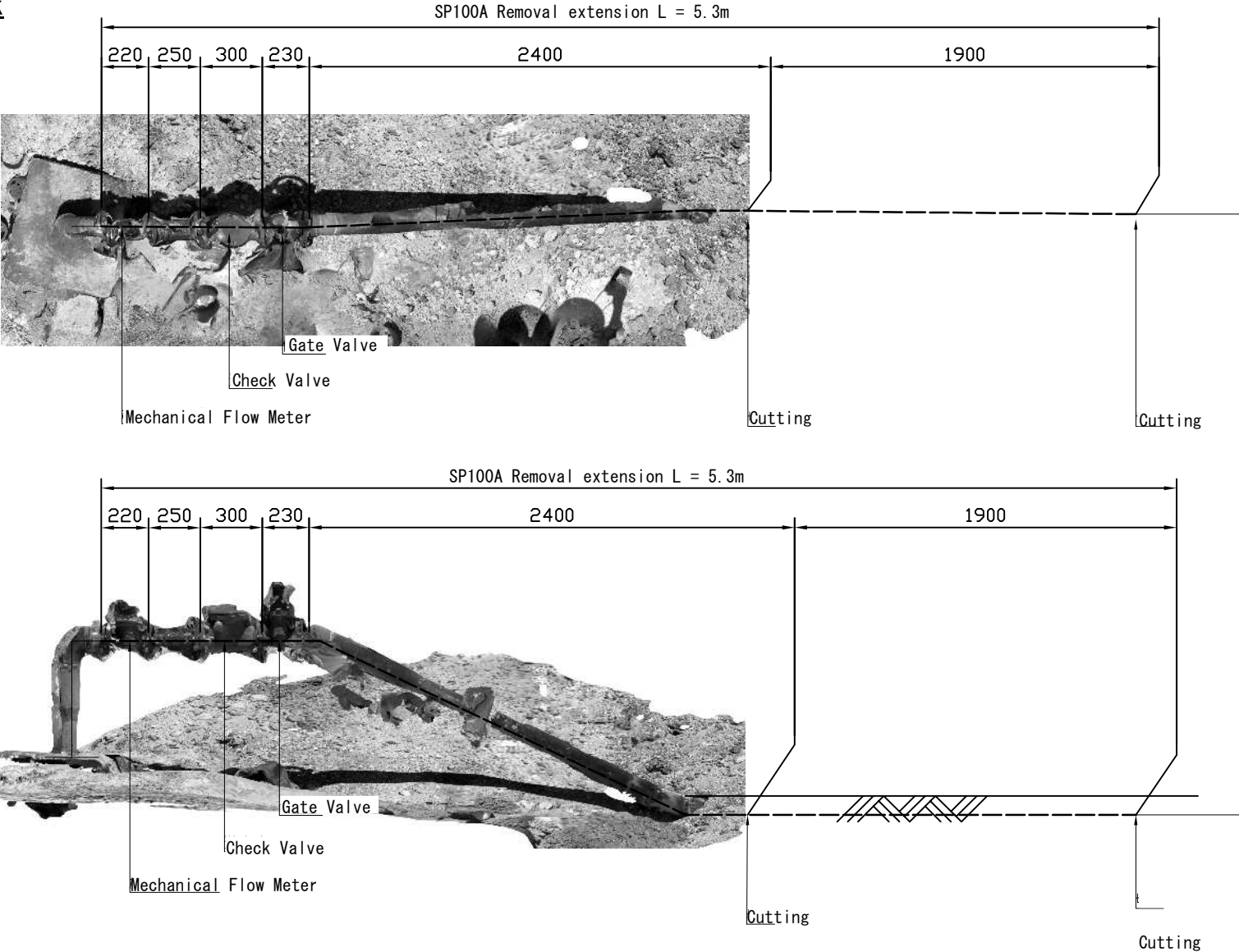
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W1 Tahouna 2 Well of Piping arrangement	SCALE :	APPROVED BY :
				S=1:30 (A3)	PREPARED BY :
				DRAWING NO. :	CHECKED BY :
				M-04	DATE :



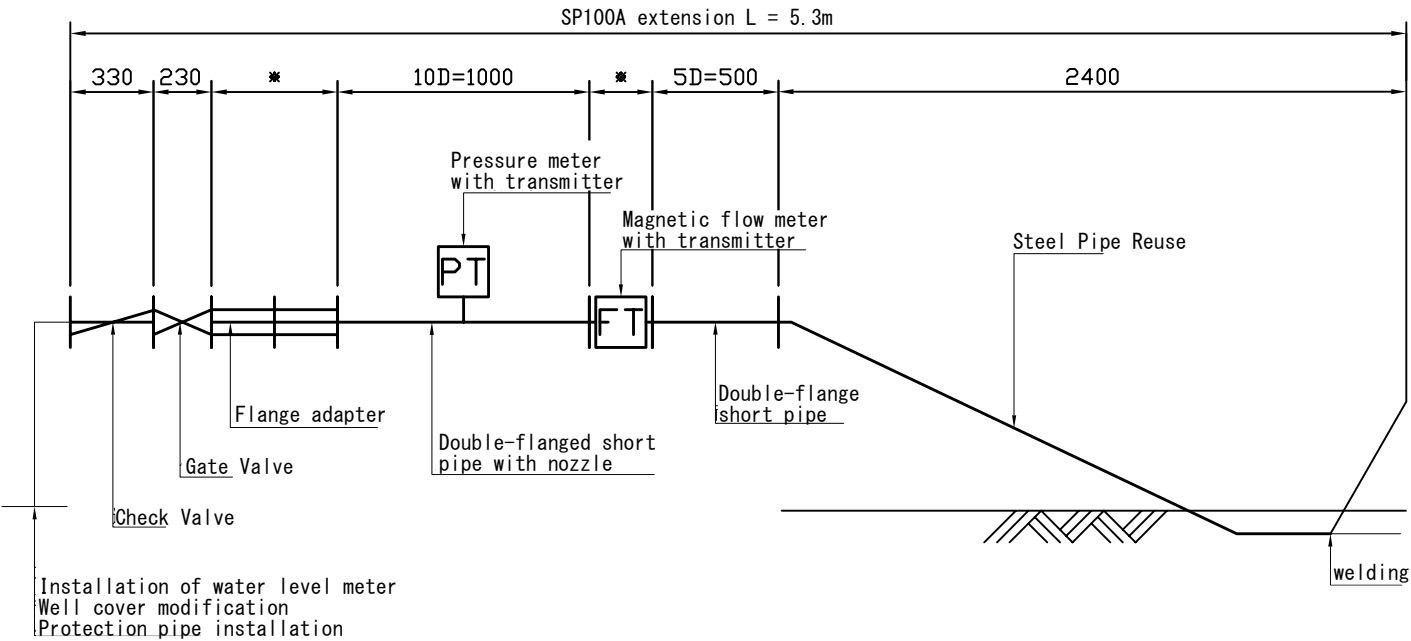
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W2 Tahouna 3 Well of General Layout Plan	SCALE :	APPROVED BY :
				S=1:100 (A3)	PREPARED BY :
				DRAWING NO. :	CHECKED BY :
				G-07	DATE :




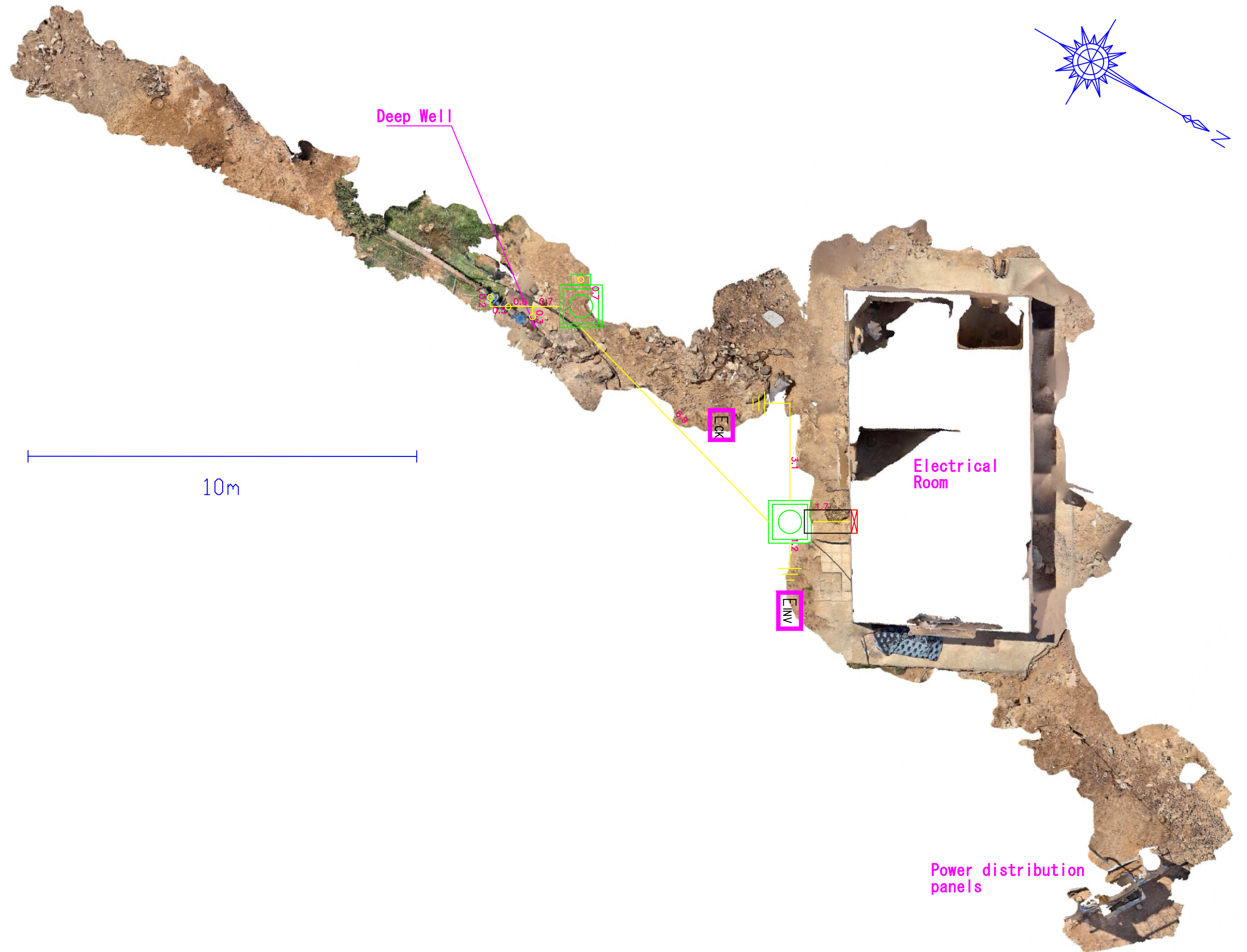
Piping removal work




Piping - Equipment installation work

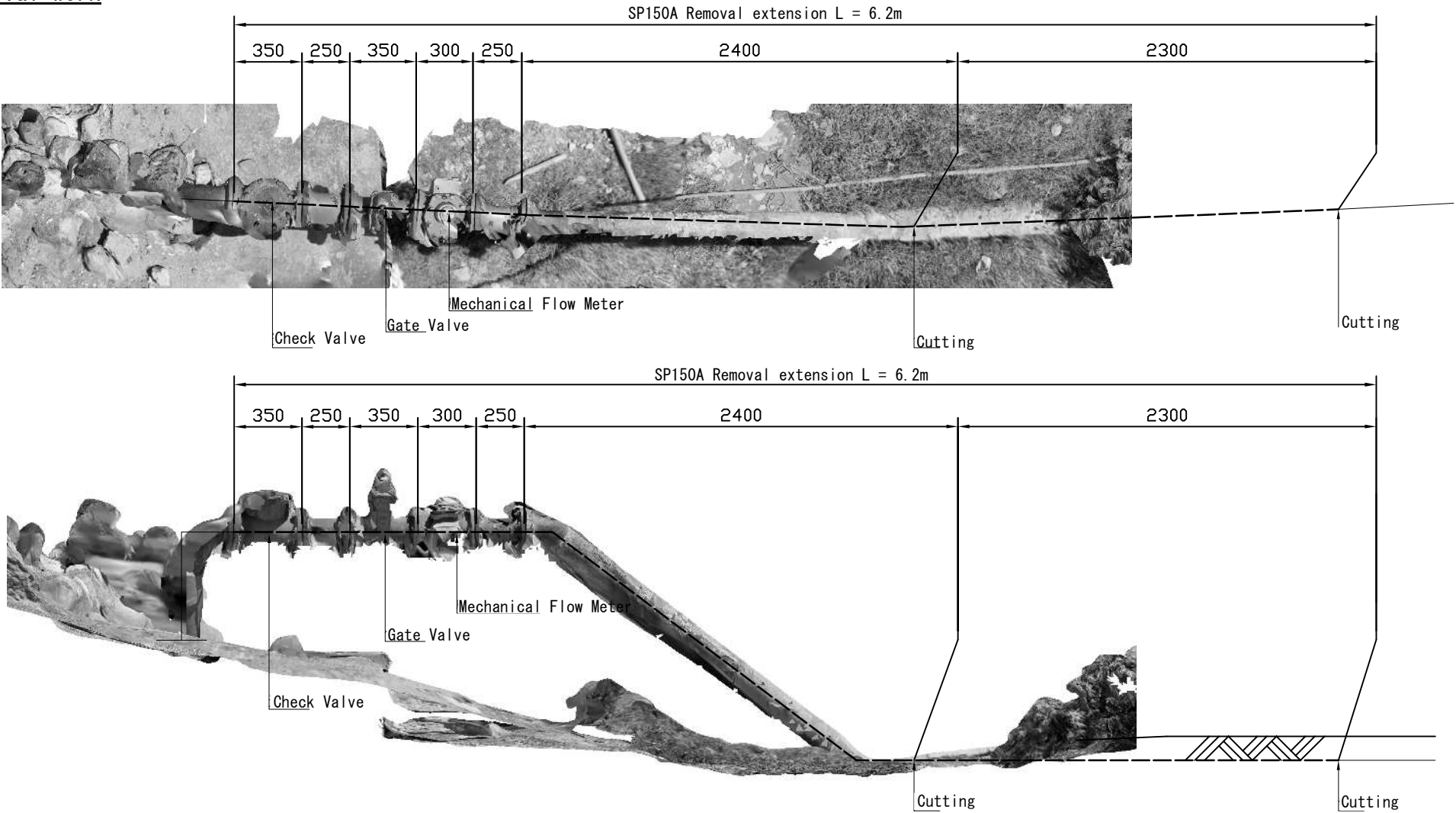


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W2 Tahouna 3 Well of Piping arrangement	SCALE :	APPROVED BY :
				S=1:30 (A3)	PREPARED BY :
				DRAWING NO. :	CHECKED BY :
				M-05	DATE :

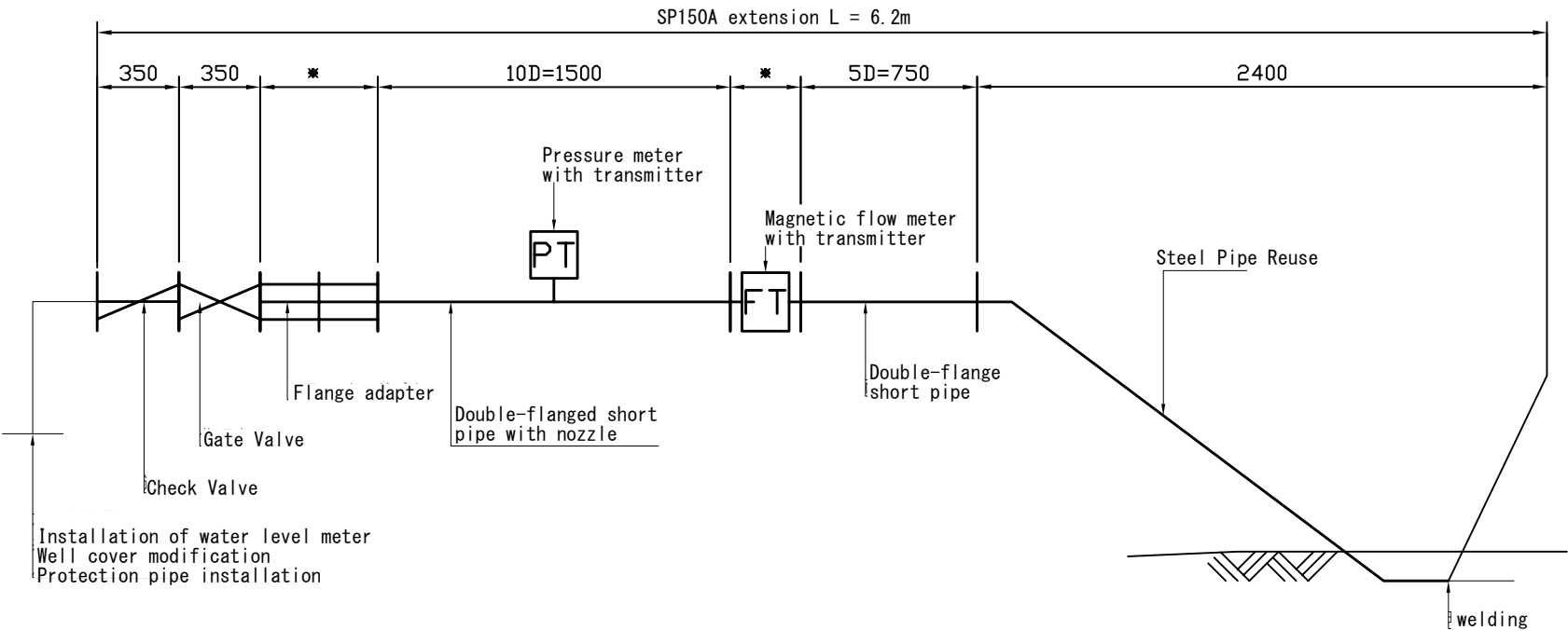



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W3 Tahouna 4 Well of General Layout Plan	SCALE :	APPROVED BY :
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				DRAWING NO. :	CHECKED BY :
				G-08	DATE :

Piping removal work

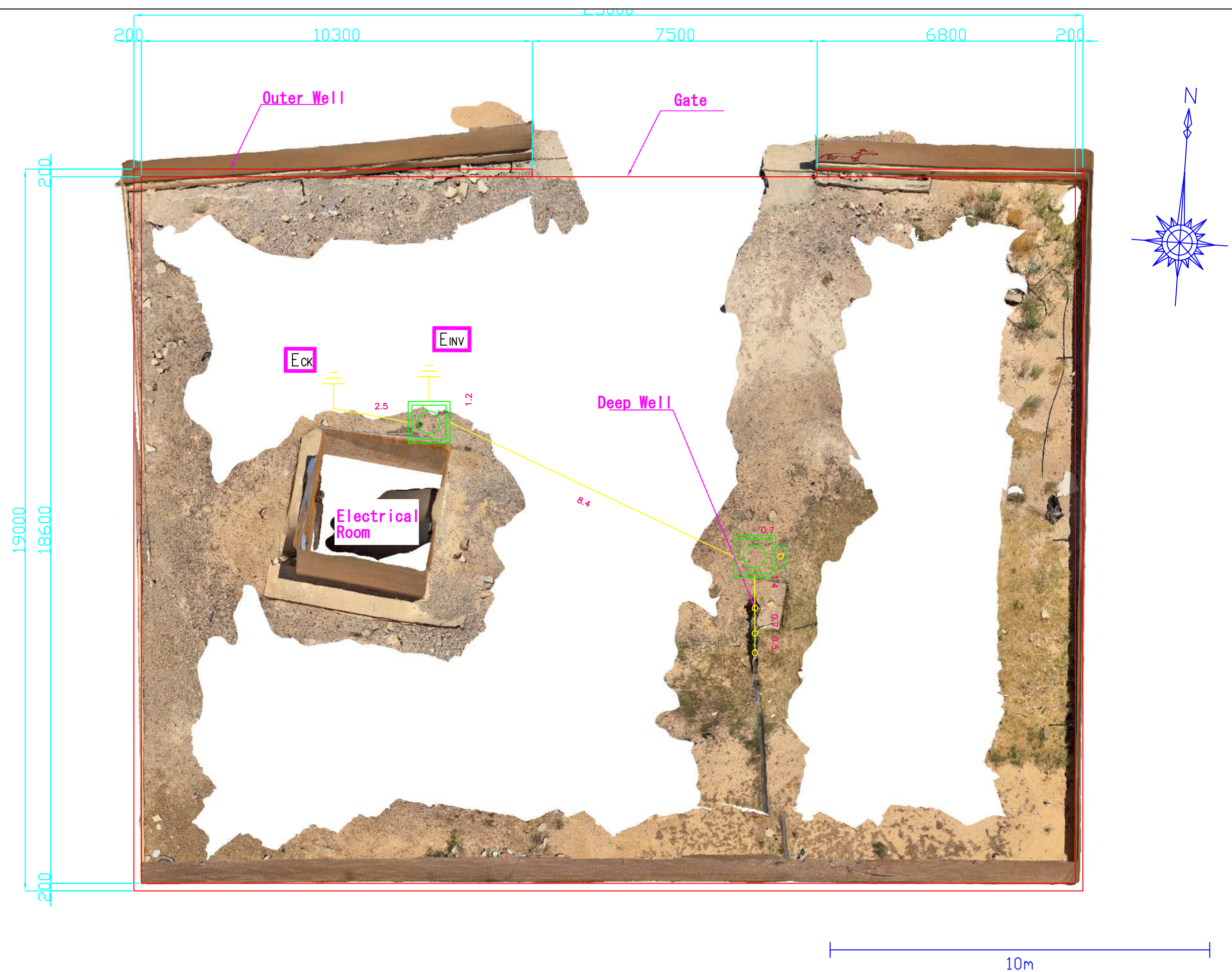




Piping - Equipment installation work



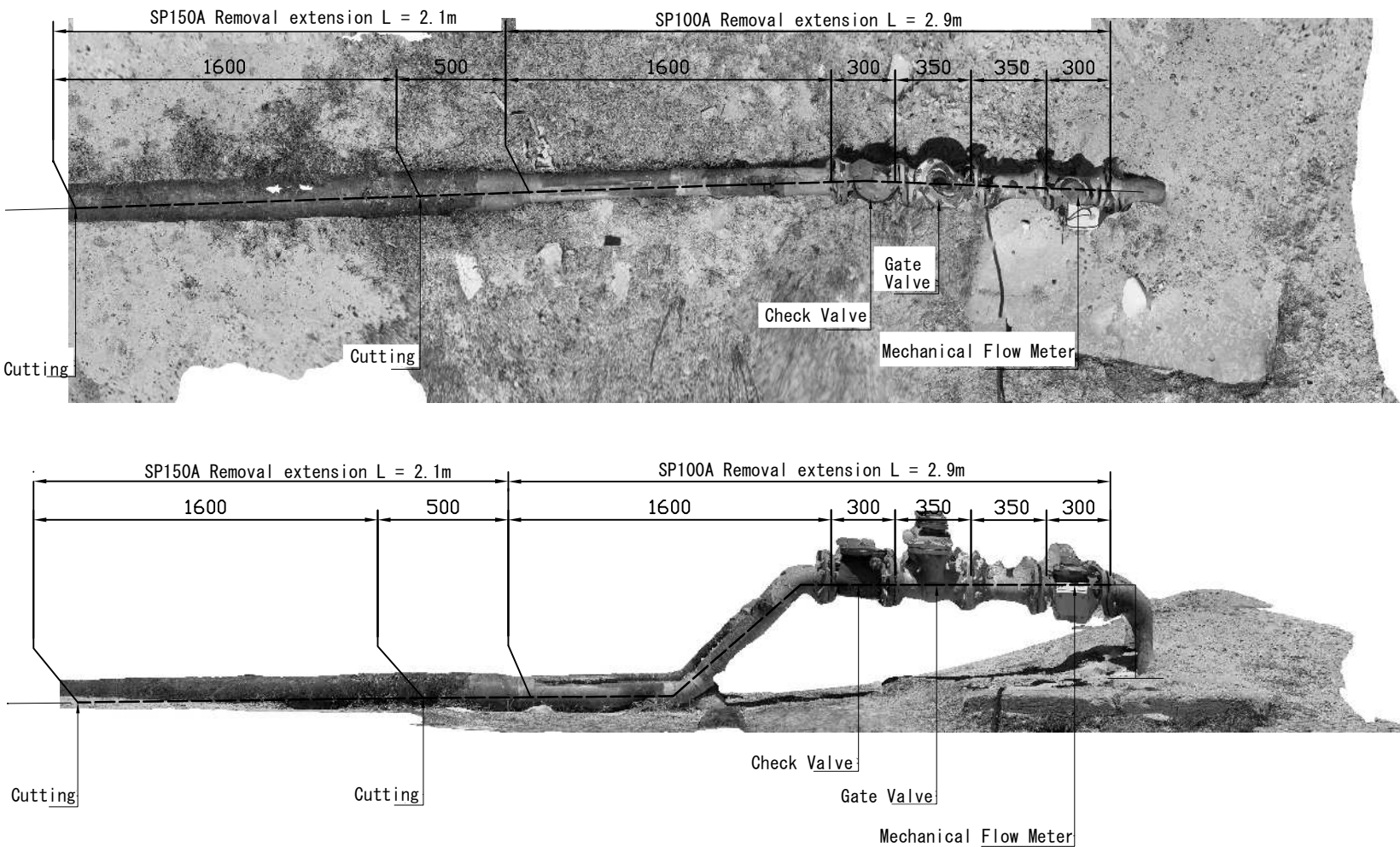
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W3 Tahouna 4 Well of Piping arrangement	SCALE :	APPROVED BY :
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				DRAWING NO. :	CHECKED BY :
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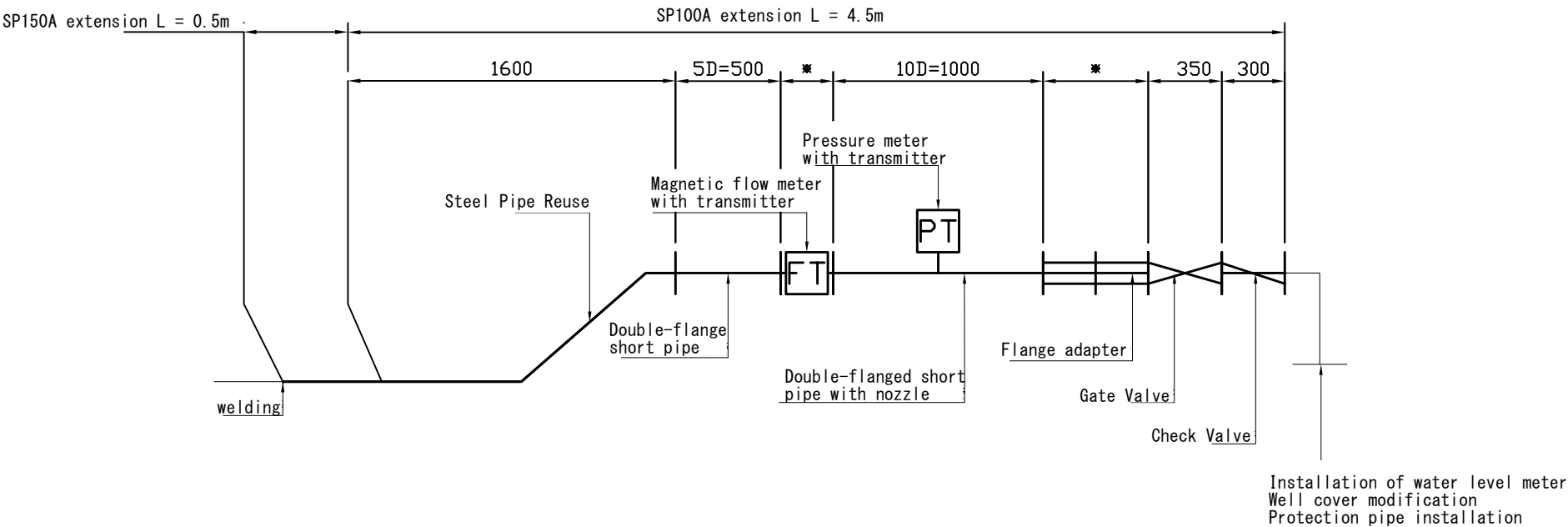



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)  TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE : <b>P1-1-W4 Tahouna 5 Well of General Layout Plan</b>	SCALE : <b>S=1:100 (A3)</b> DRAWING NO. : <b>G-09</b>	APPROVED BY : PREPARED BY : CHECKED BY : DATE :
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Piping removal work



Piping - Equipment installation work

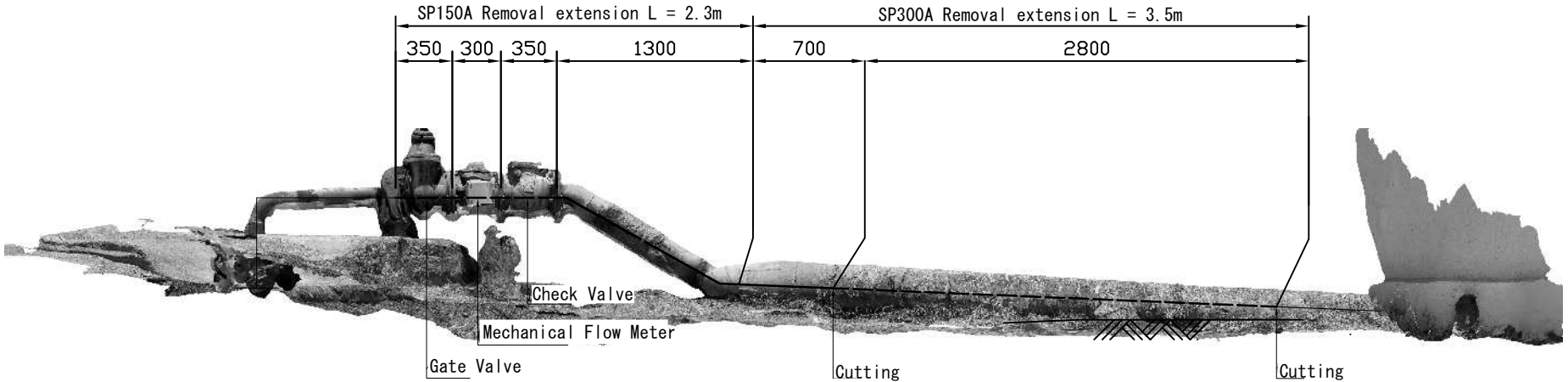
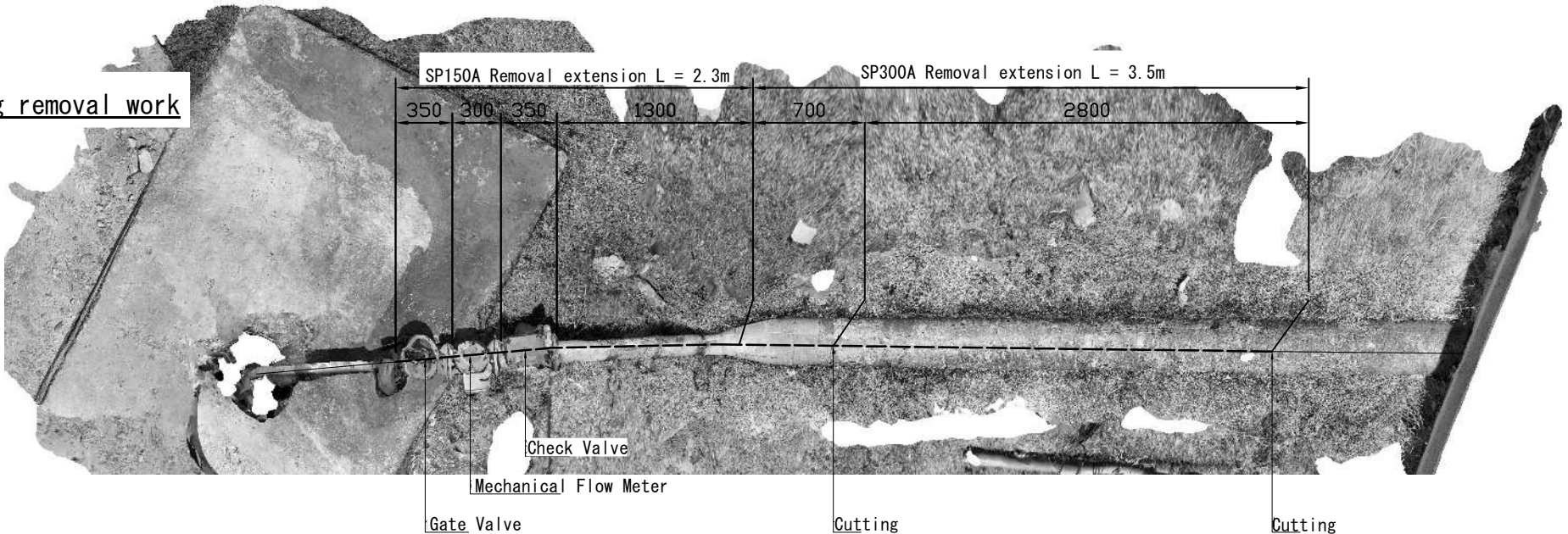


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 <div>WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div> <div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div>	TITLE :  P1-1-W4 Tahouna 5 Well of Piping arrangement	SCALE :	APPROVED BY :
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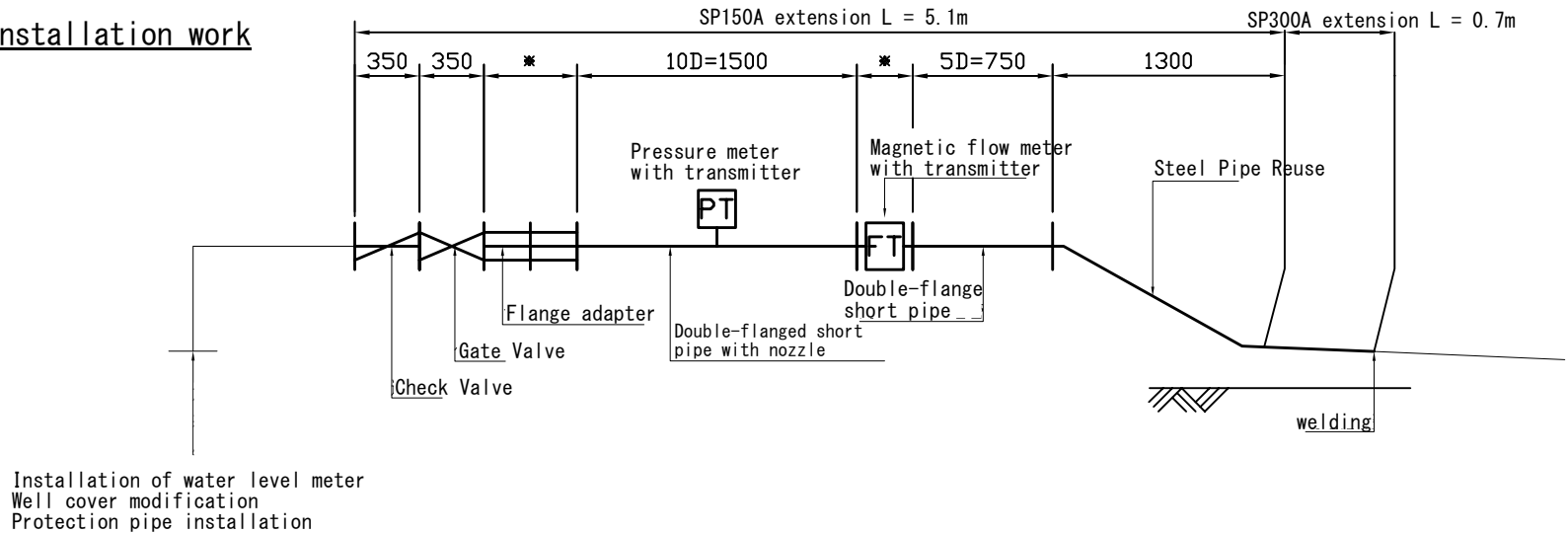





Piping removal work



Piping - Equipment installation work

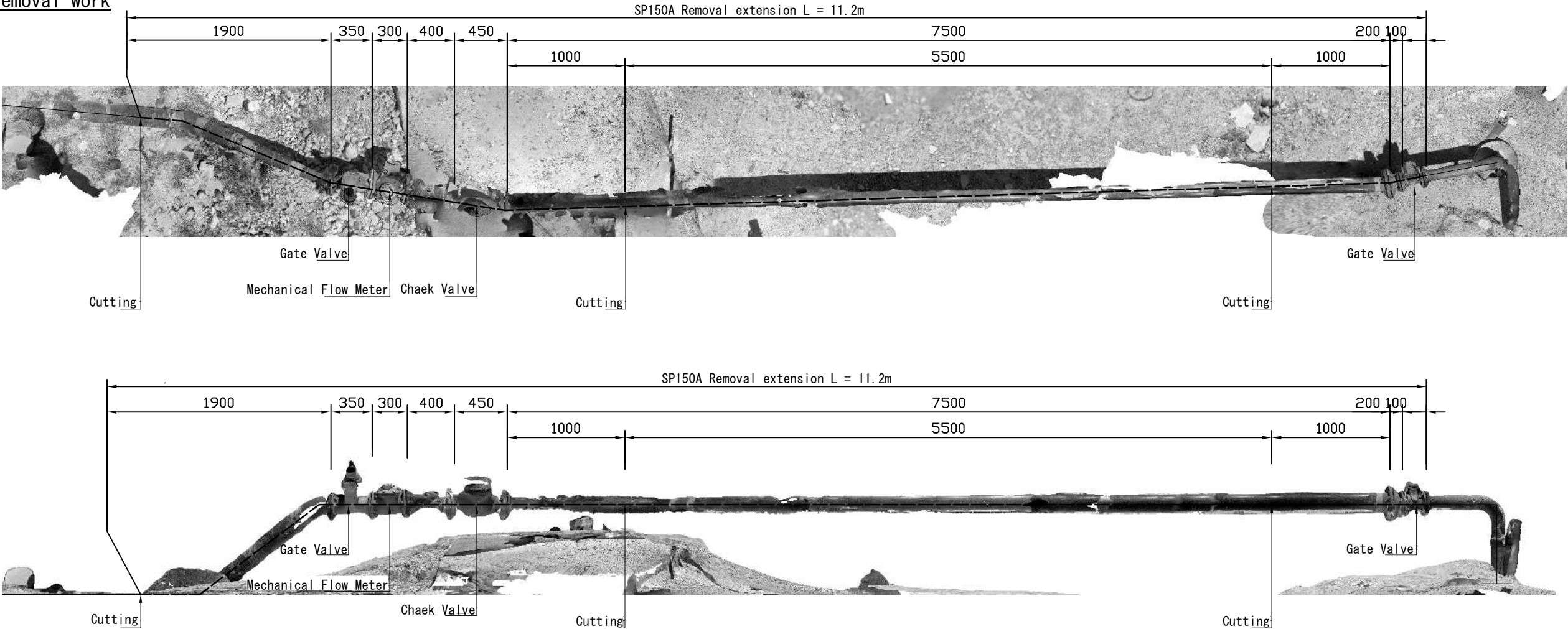


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 <div>WATER AUTHORITY OF JORDAN (WAOJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div> <div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div>	TITLE :  P1-1-W5 Tahouna 6 Well of Piping arrangement	SCALE :	APPROVED BY :
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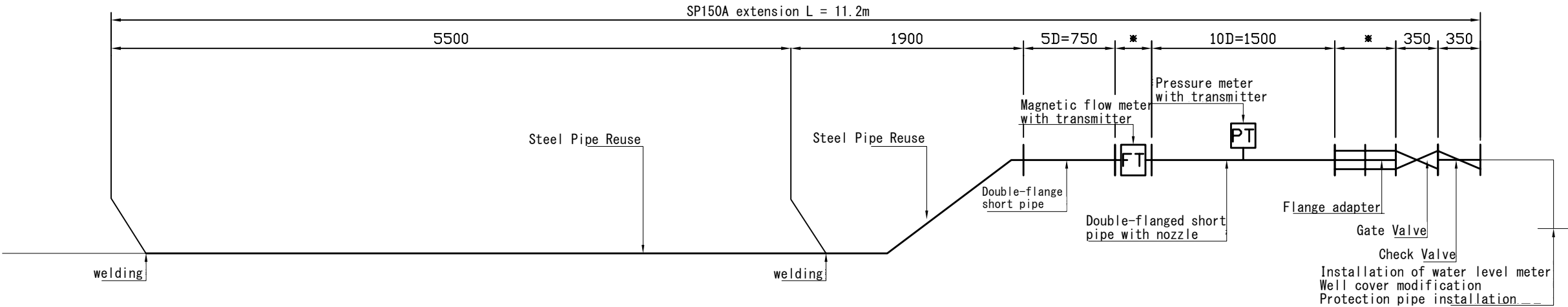





Piping removal work



Piping - Equipment installation work

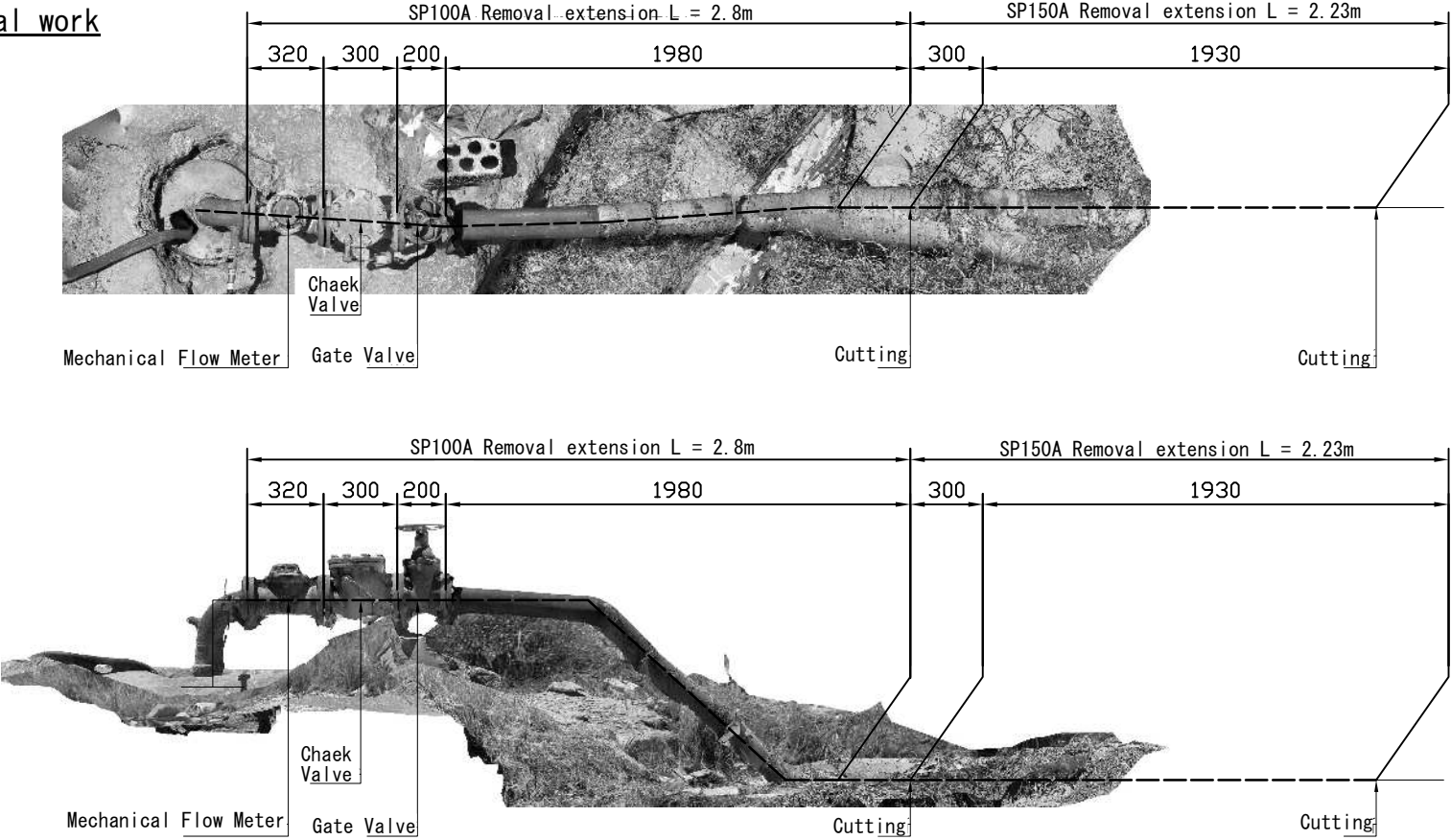


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 <div>WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div> <div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div>	TITLE :  P1-1-W6 Tahouna 7 A Well of Piping arrangement	SCALE :	APPROVED BY :
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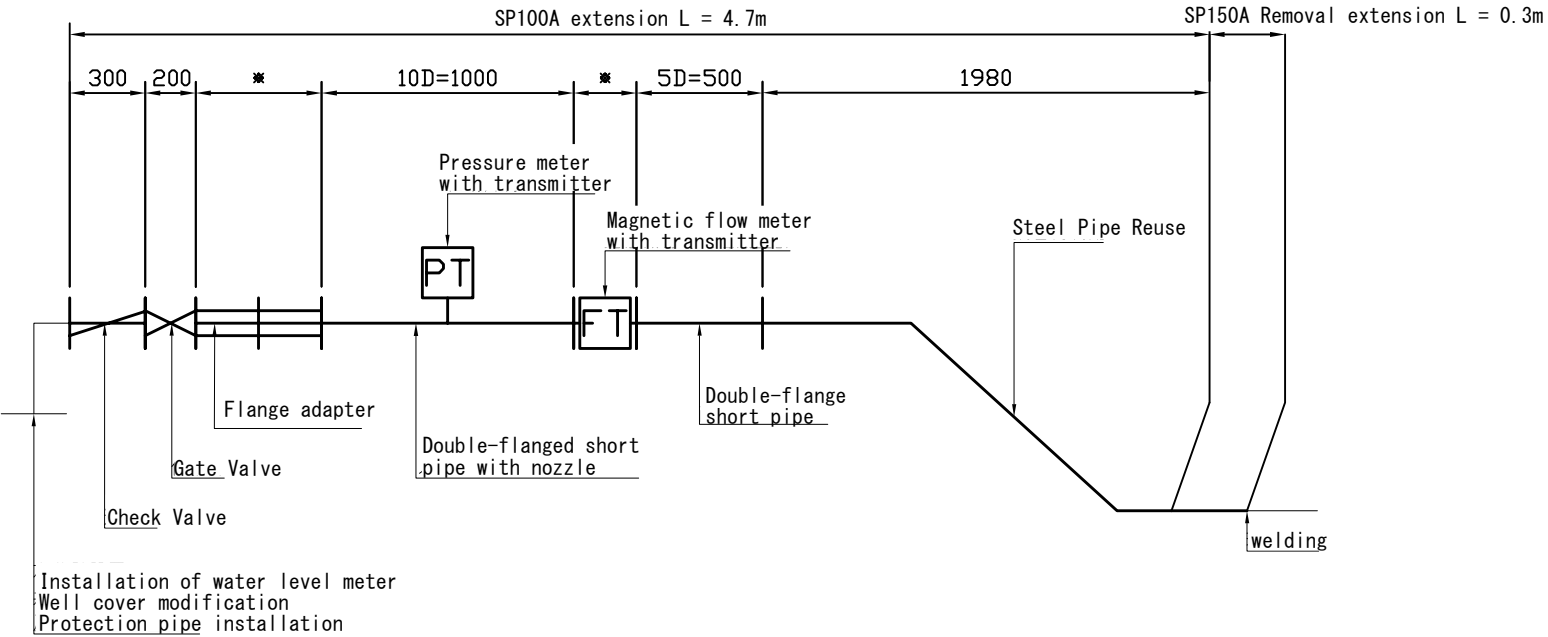




Piping removal work

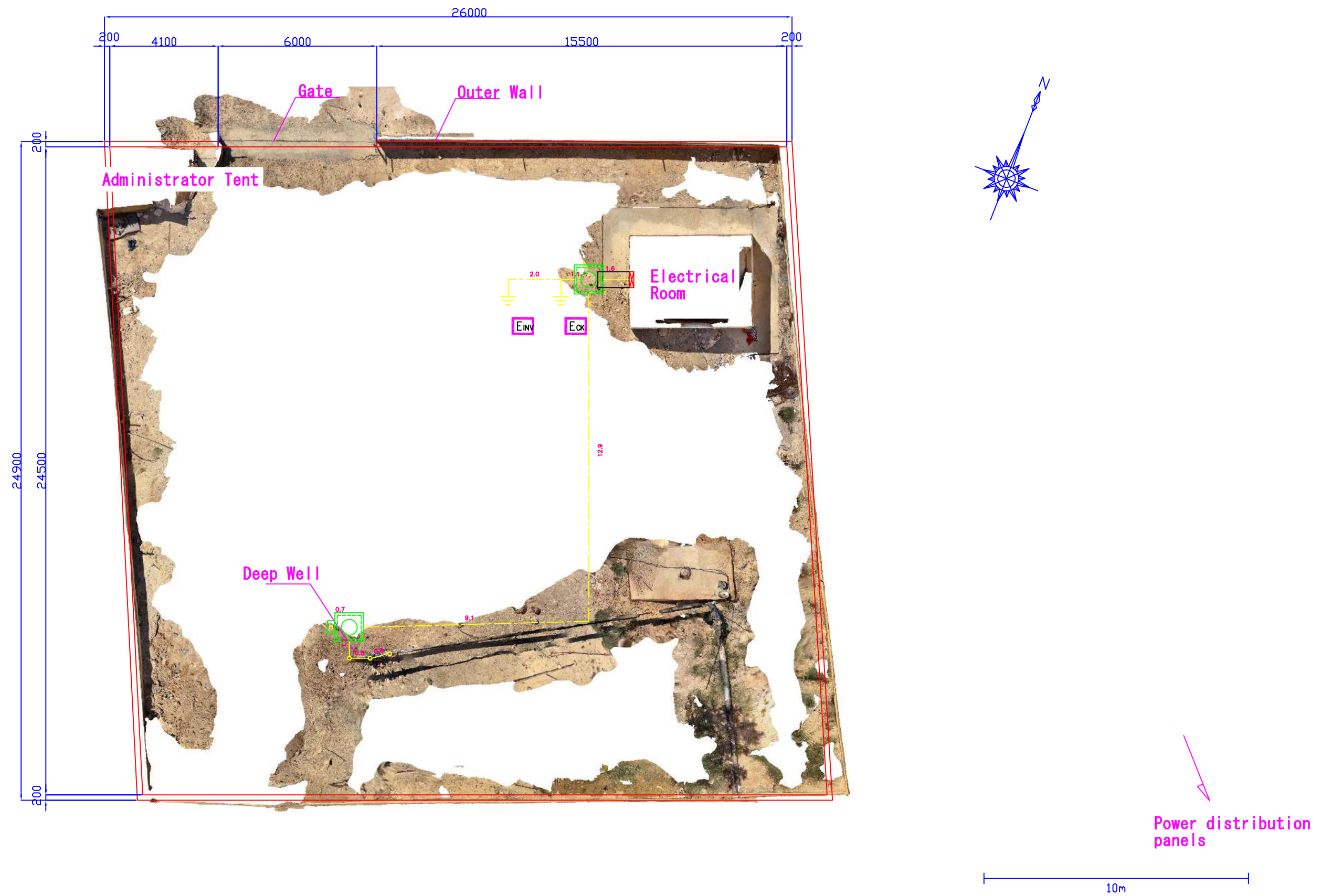


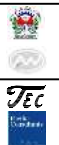
Piping - Equipment installation work



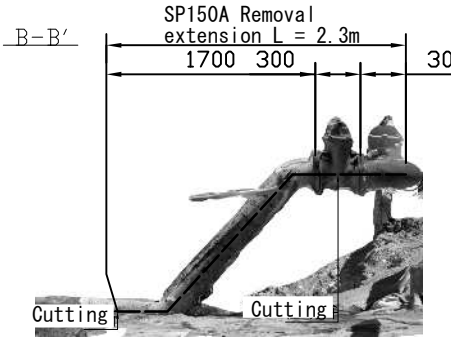
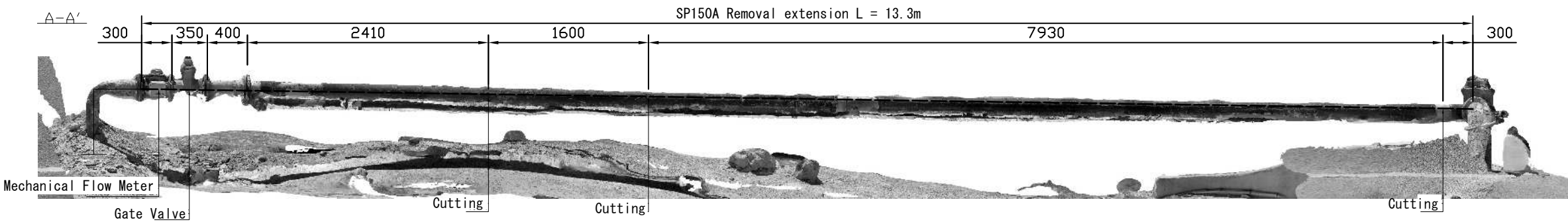
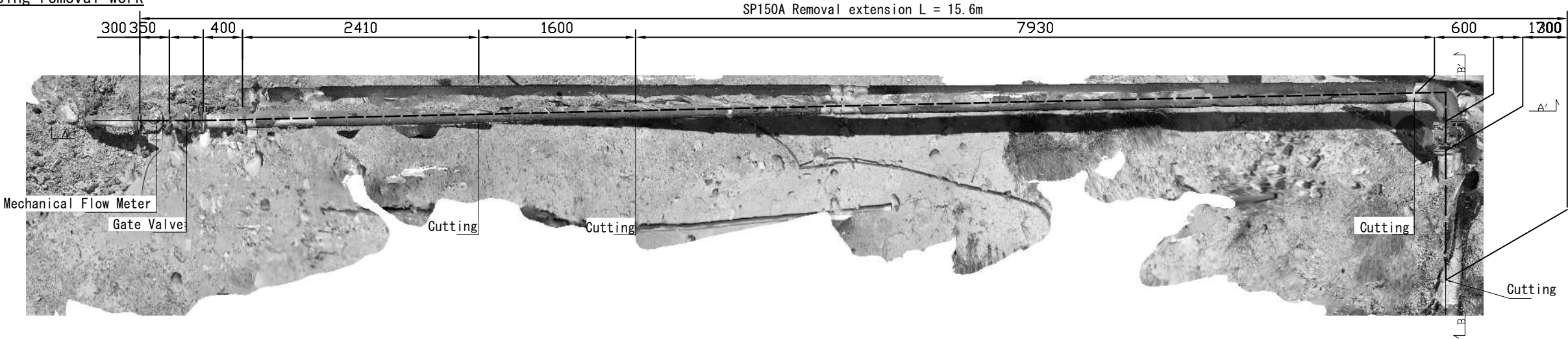
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W7 Tahouna 8 Well of Piping arrangement	SCALE :	APPROVED BY :
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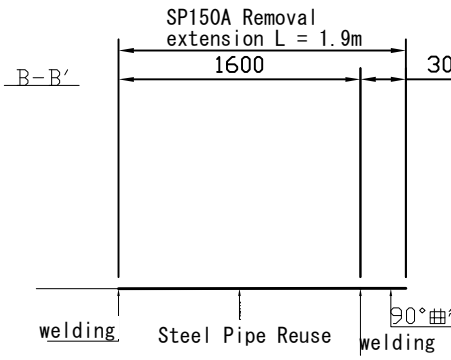
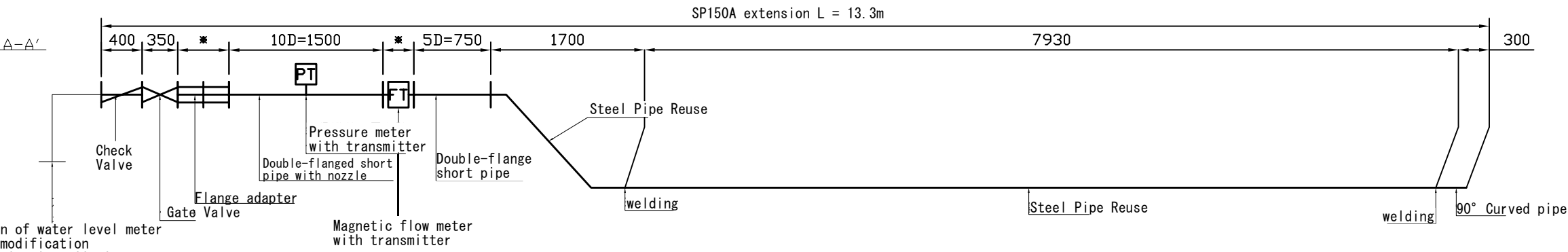
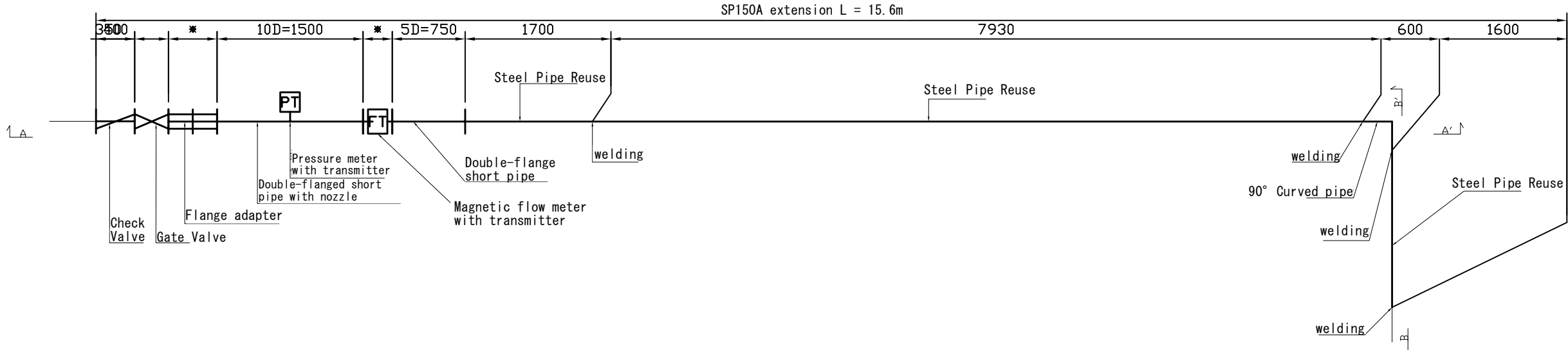


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 <div>WATER AUTHORITY OF JORDAN (WAOJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div> <div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div>	TITLE :  P1-1-W8 Tahouna 9 A Well of General Layout Plan	SCALE :	APPROVED BY :
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Piping removal work



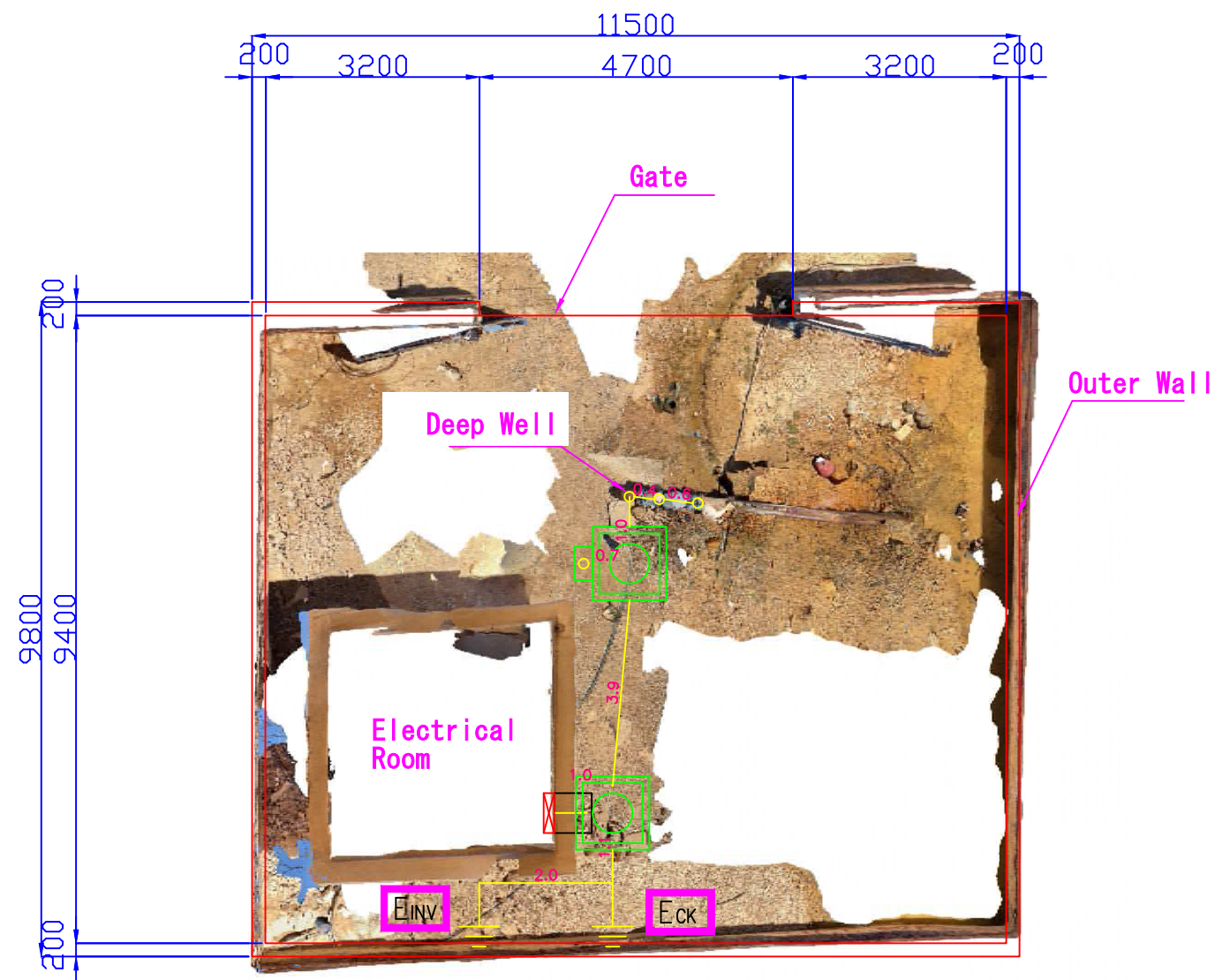
Piping - Equipment installation work



Installation of water level meter  
Well cover modification  
Protection pipe installation

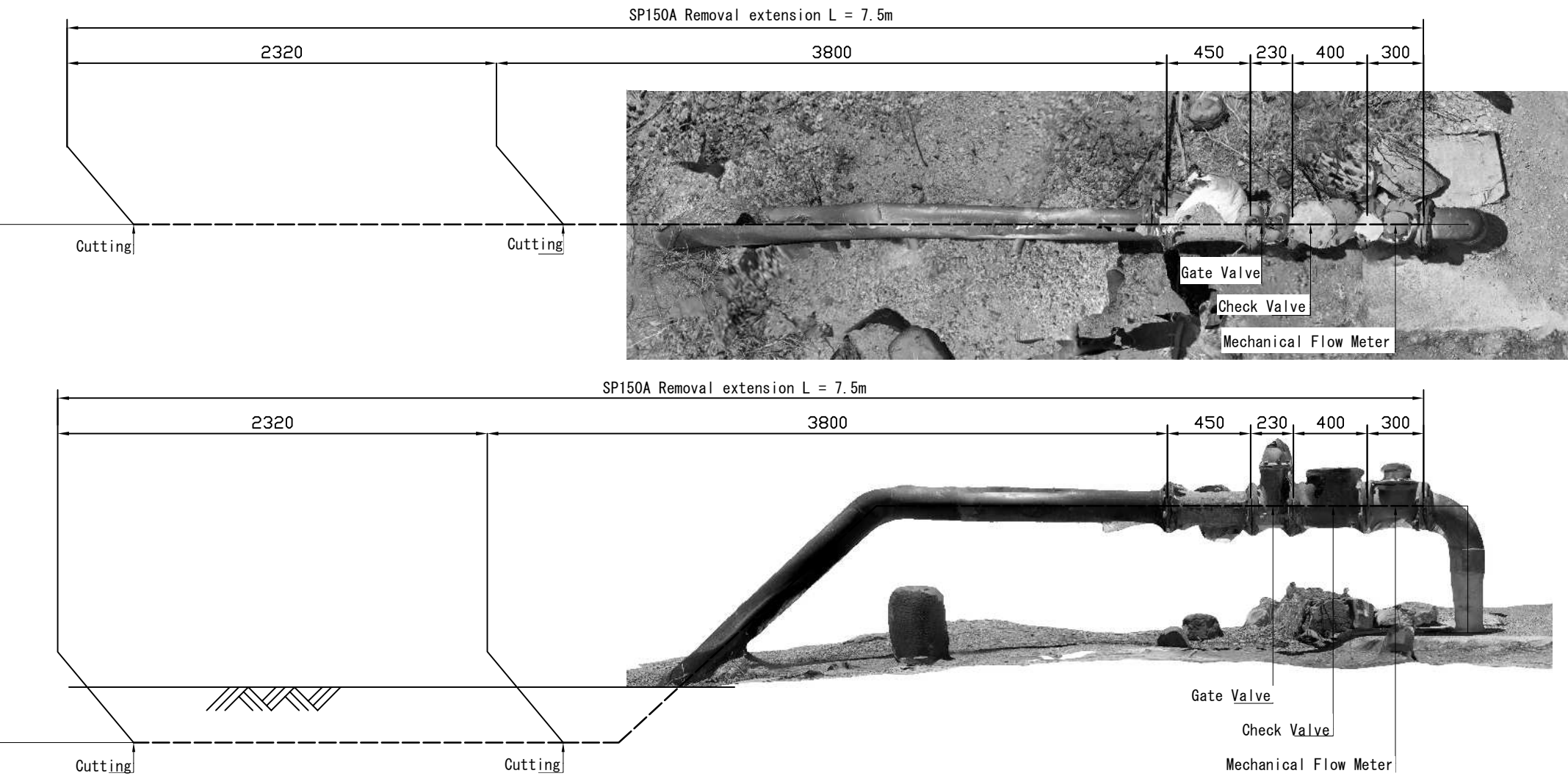
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE		WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W8 Tahouna 9 A Well of Piping arrangement	SCALE :	APPROVED BY :
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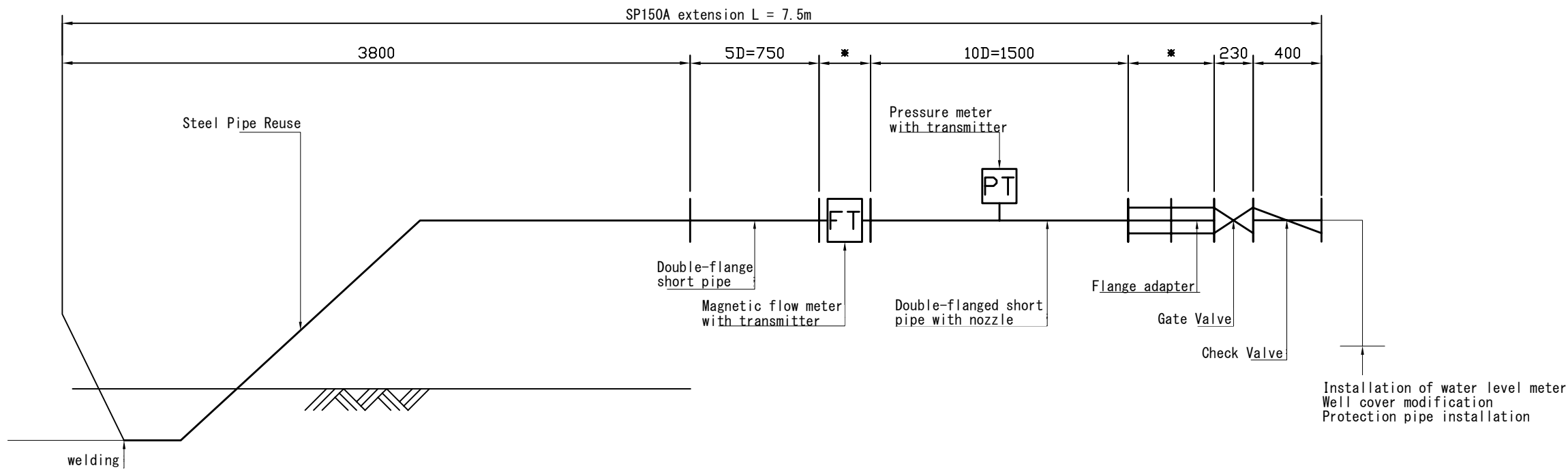


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	<div><div><div></div><div>WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div></div><div><div>TEC</div><div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div></div></div>	TITLE :  P1-1-W9 Tahouna 10 Well of General Layout Plan	SCALE :	APPROVED BY :
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Piping removal work

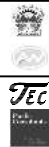


Piping • Equipment installation work



REMARKS :

THE PROJECT FOR THE INTRODUCTION OF  
WATER SUPPLY CONTROL SYSTEM  
IN MA'AN GOVERNORATE



WATER AUTHORITY OF JORDAN (WAJ),  
MINISTRY OF WATER AND IRRIGATION,  
THE HASHEMITE KINGDOM OF JORDAN  
AQABA WATER COMPANY (AWC)

TEC INTERNATIONAL CO.,LTD.  
PACIFIC CONSULTANTS CO., LTD.

TITLE :

P1-1-W9 Tahouna 10 Well of  
Piping arrangement

SCALE :

S=1:30 (A3)

DRAWING NO. :

M-12

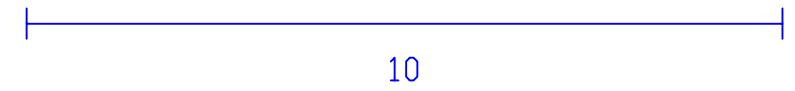
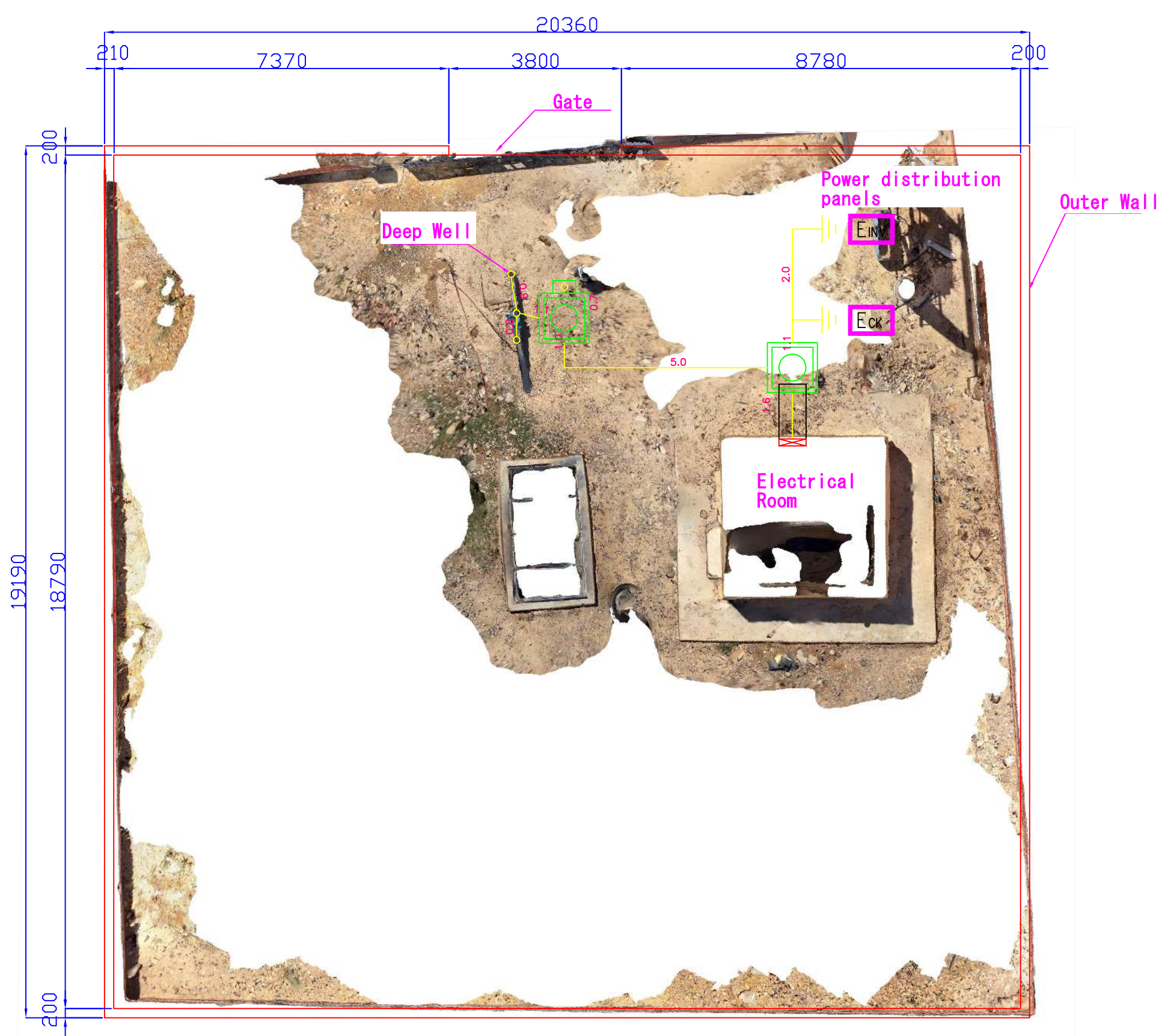
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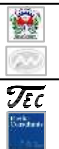
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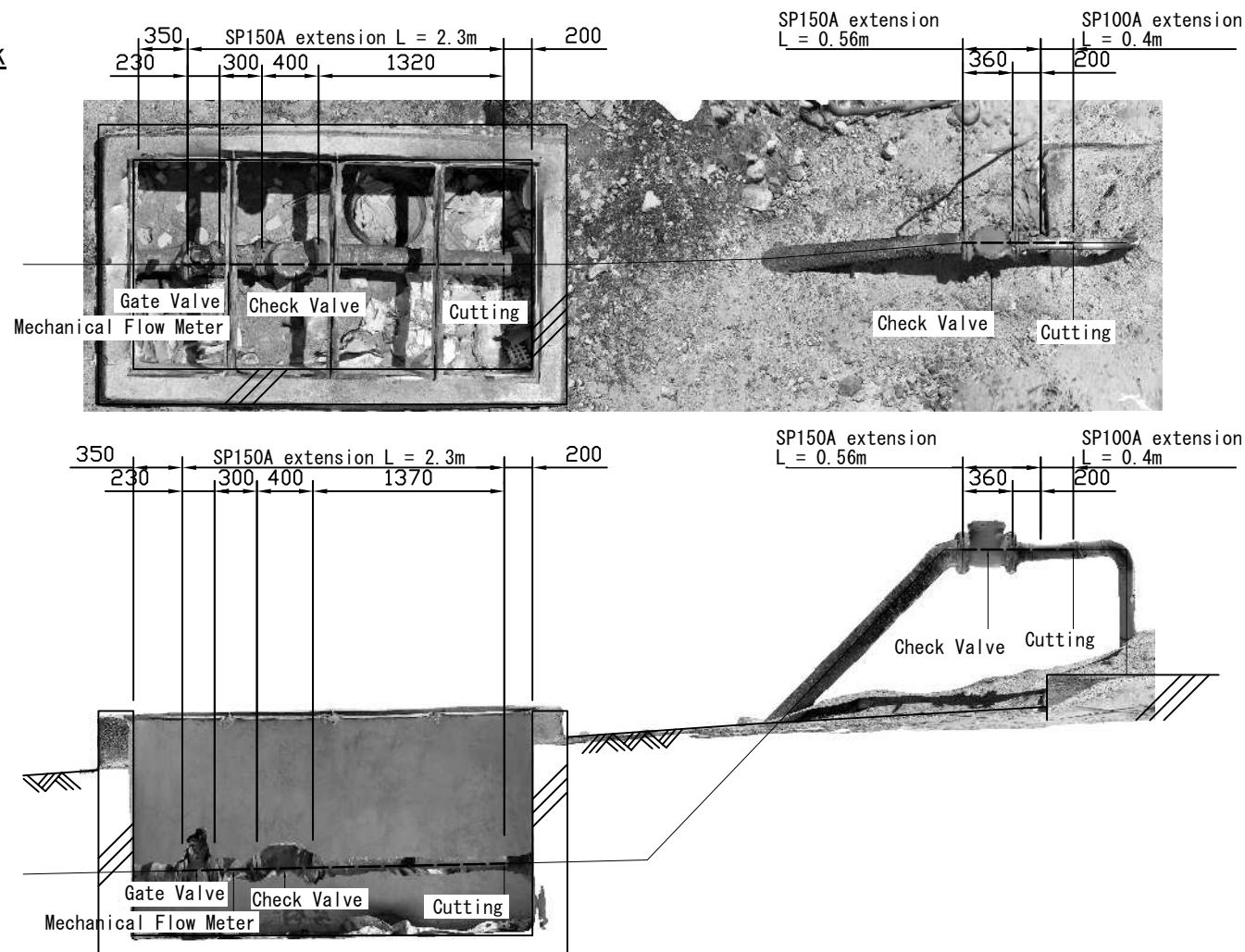
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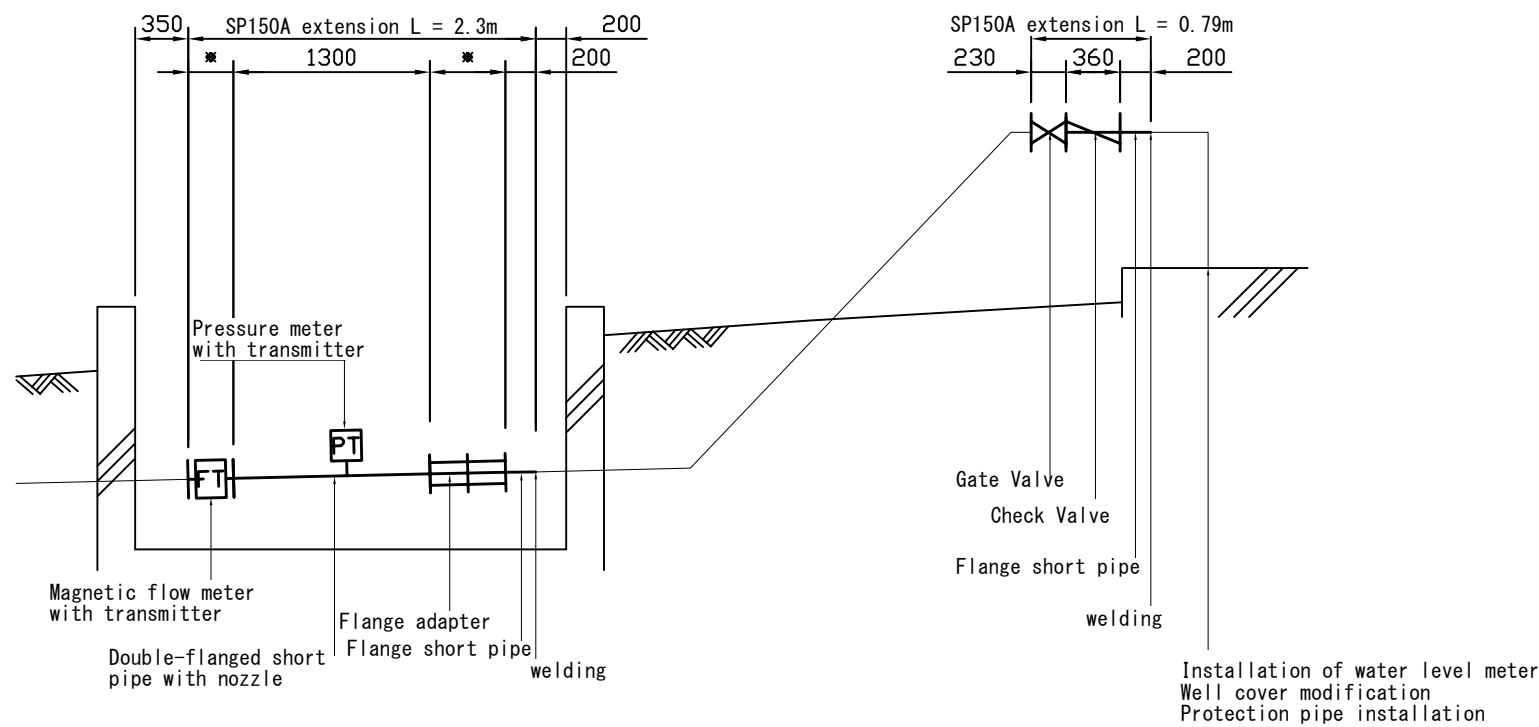



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 <div>WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div> <div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div>	TITLE :  P1-1-W11 Tahouna 12 Well of General Layout Plan	SCALE :	APPROVED BY :
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Piping removal work

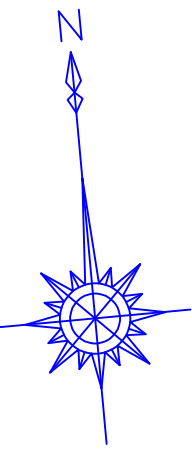
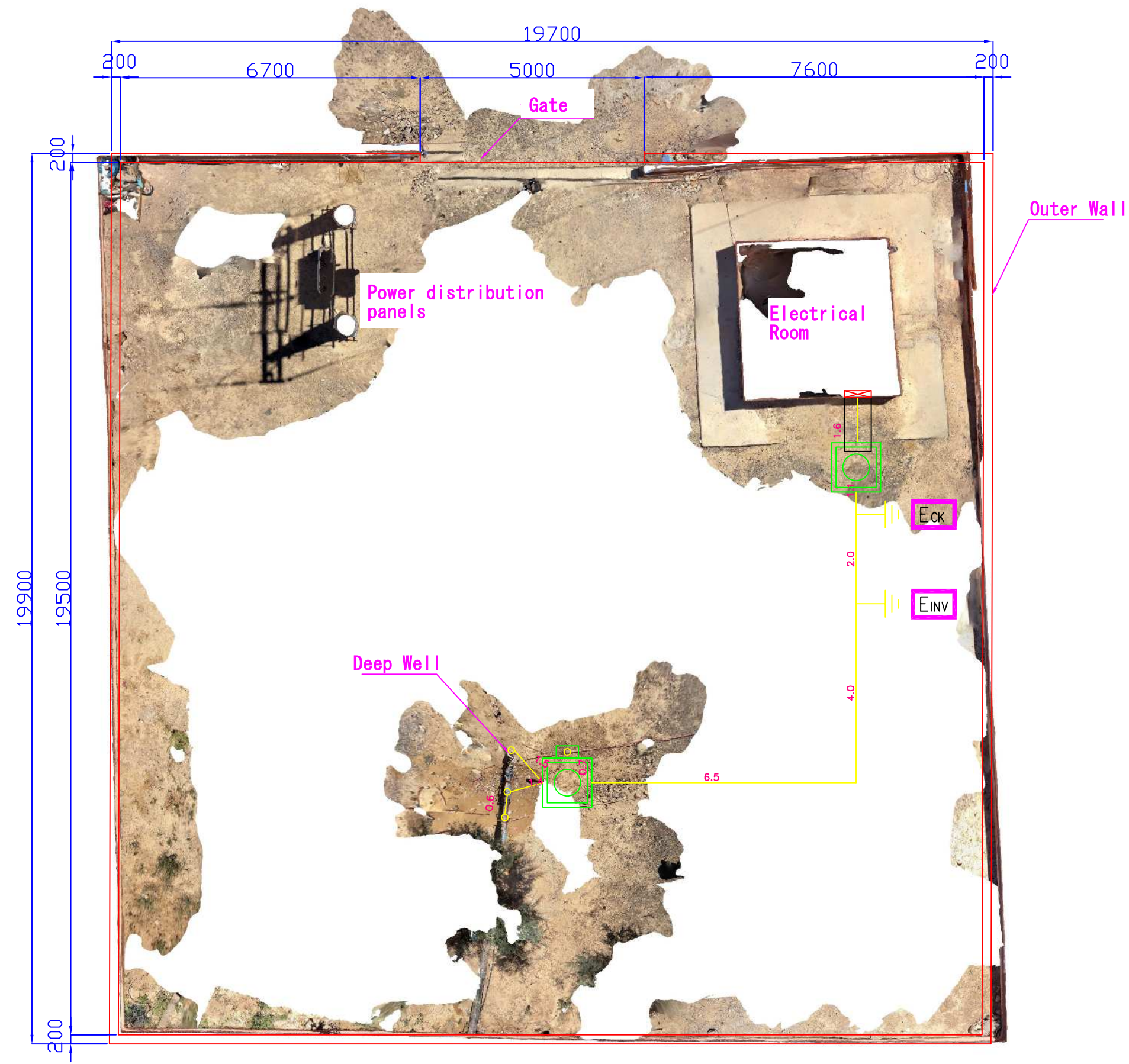


Piping • Equipment installation work

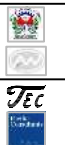


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W11 Tahouna 12 Well of Piping arrangement	SCALE :	APPROVED BY :
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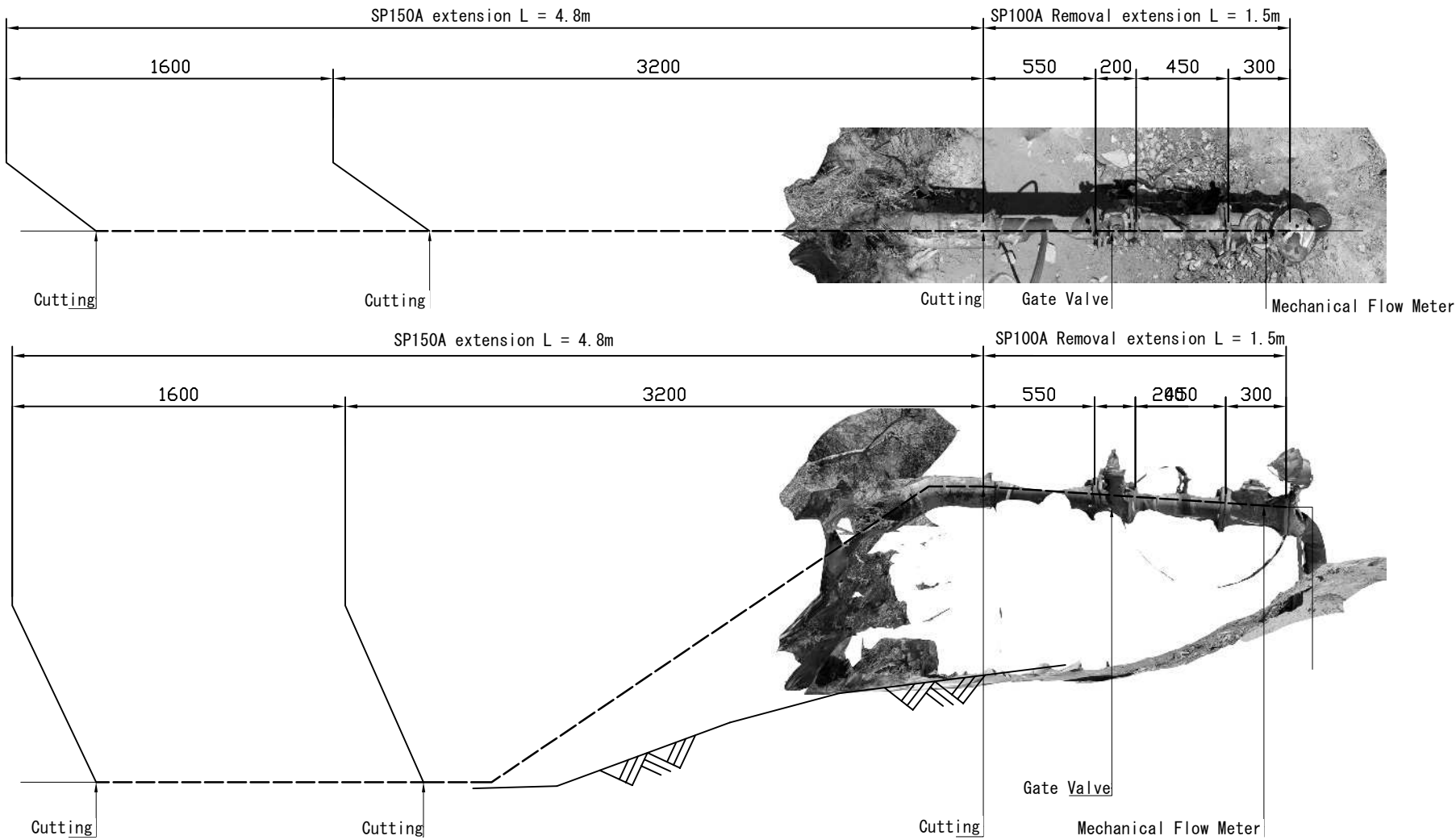




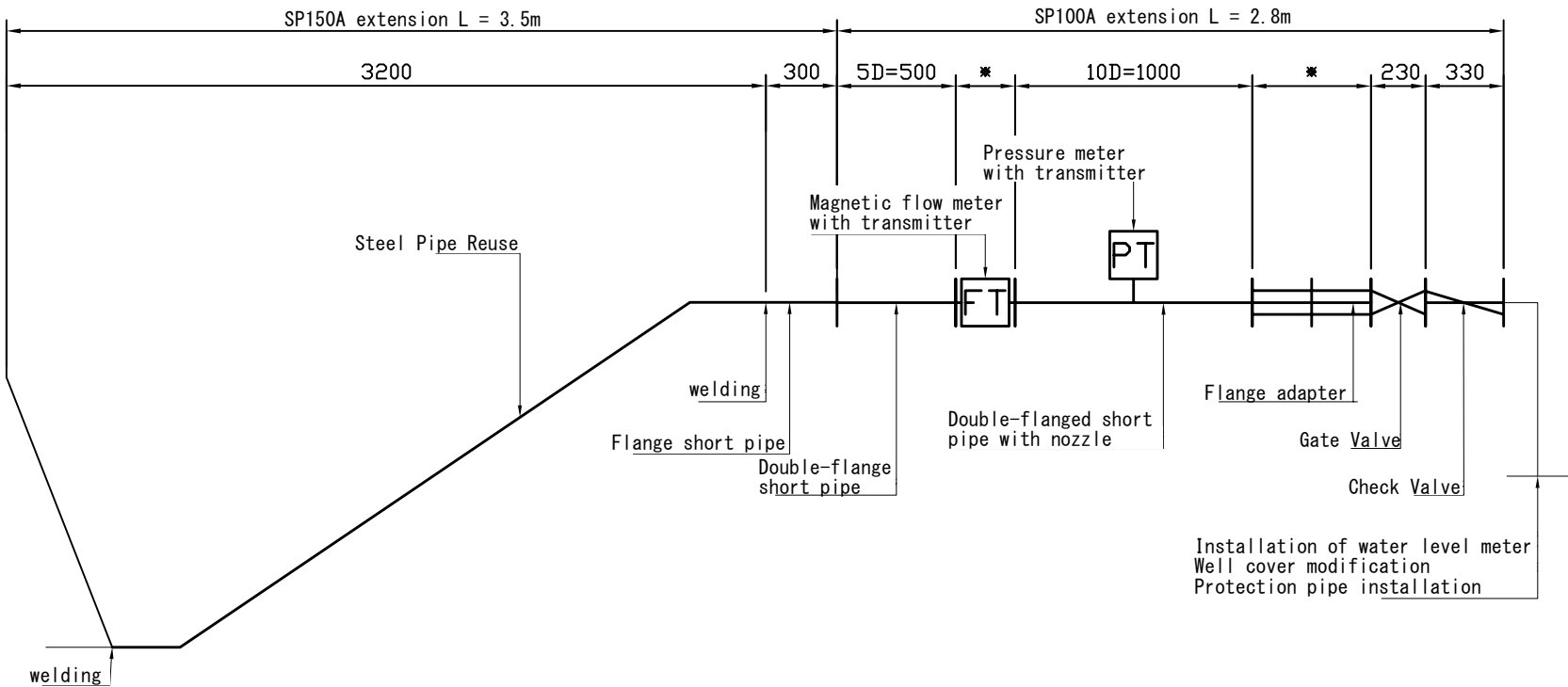
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REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 <div>WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div> <div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div>	TITLE :  P1-1-W12 Tahouna 13 Well of General Layout Plan	SCALE :	APPROVED BY :
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Piping removal work

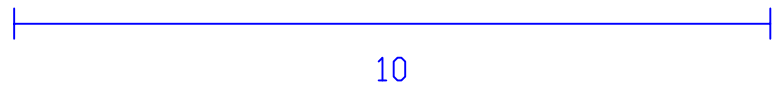
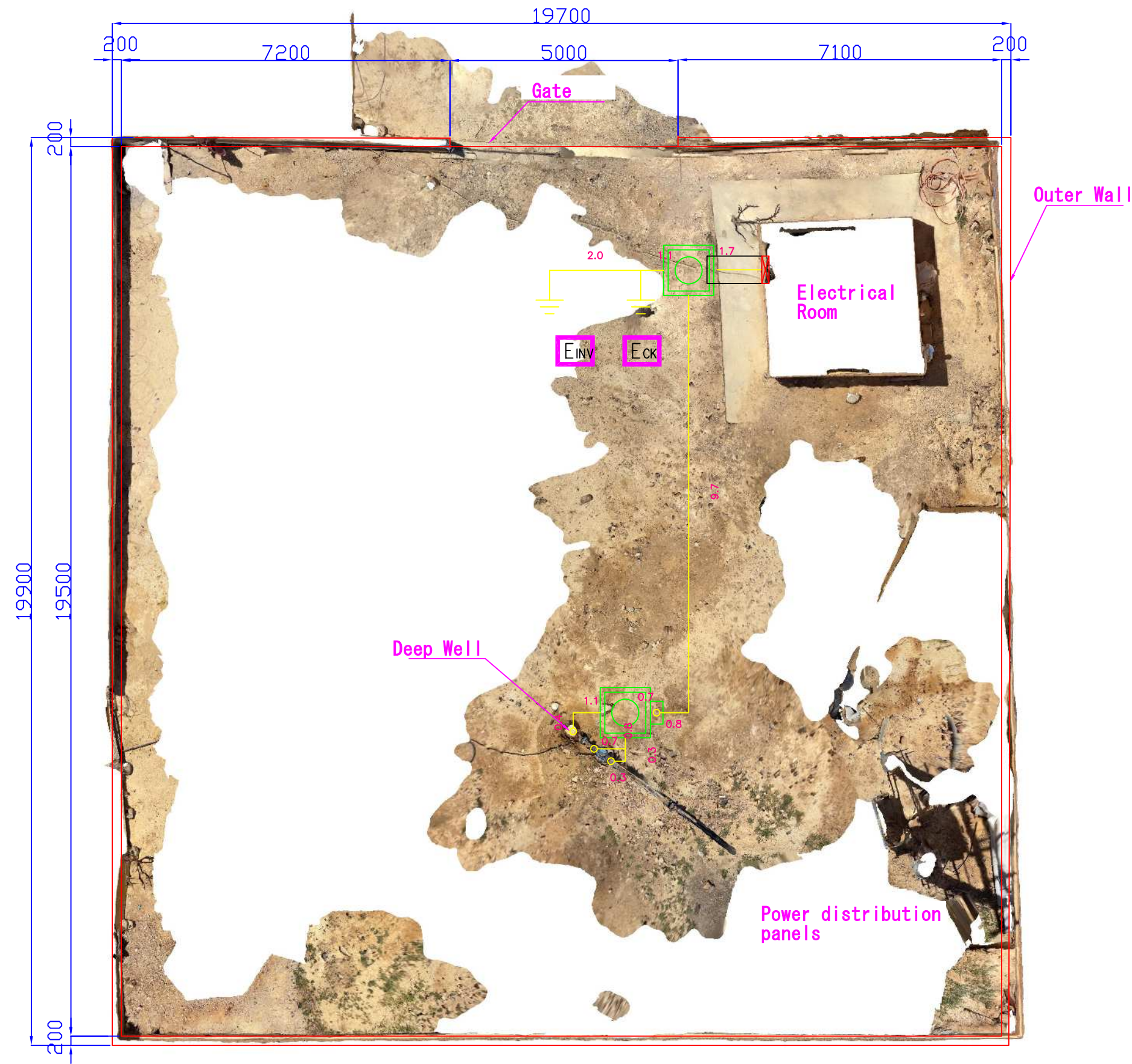



Piping - Equipment installation work



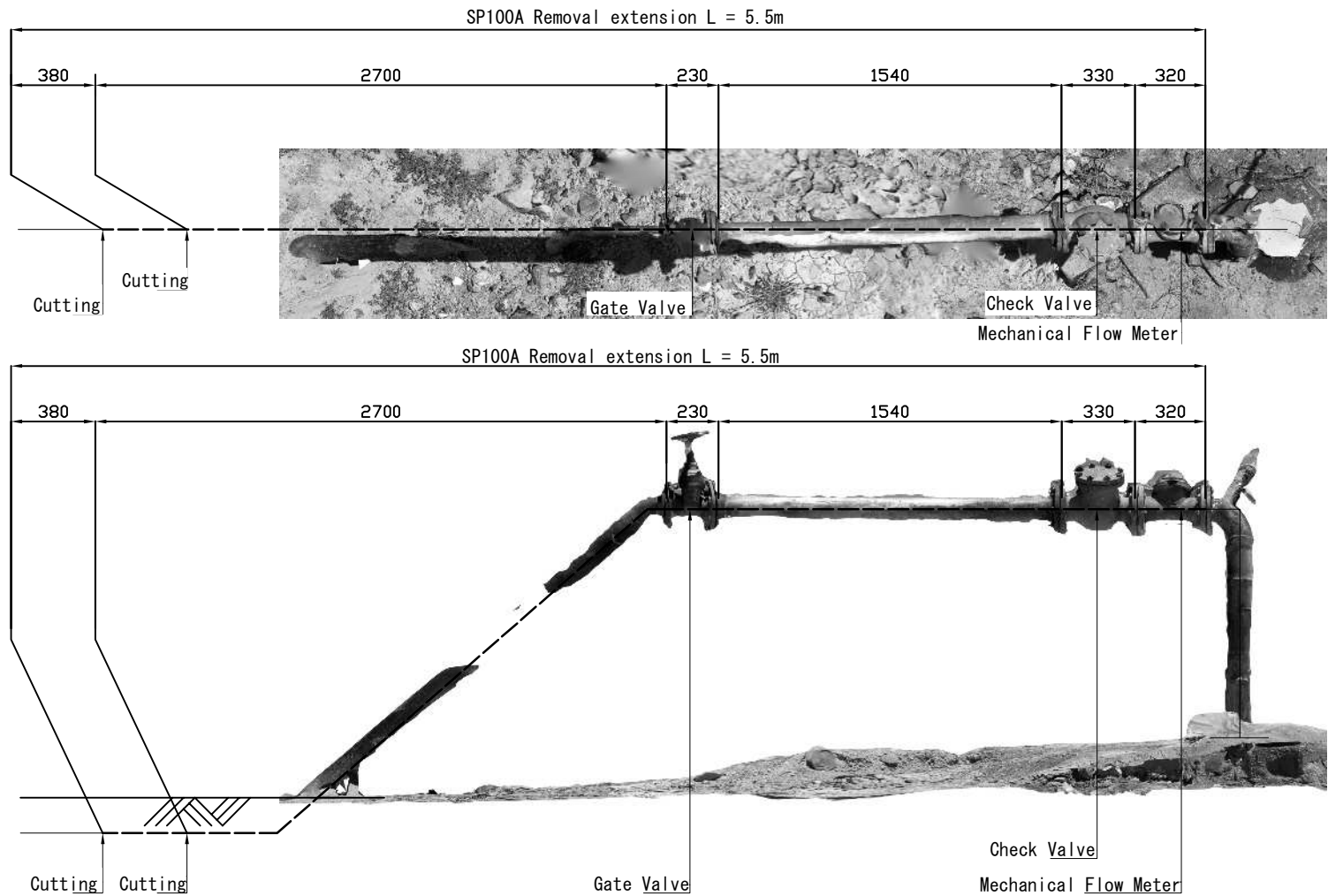
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	 TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  P1-1-W12 Tahouna 13 Well of Piping arrangement	SCALE :	APPROVED BY :
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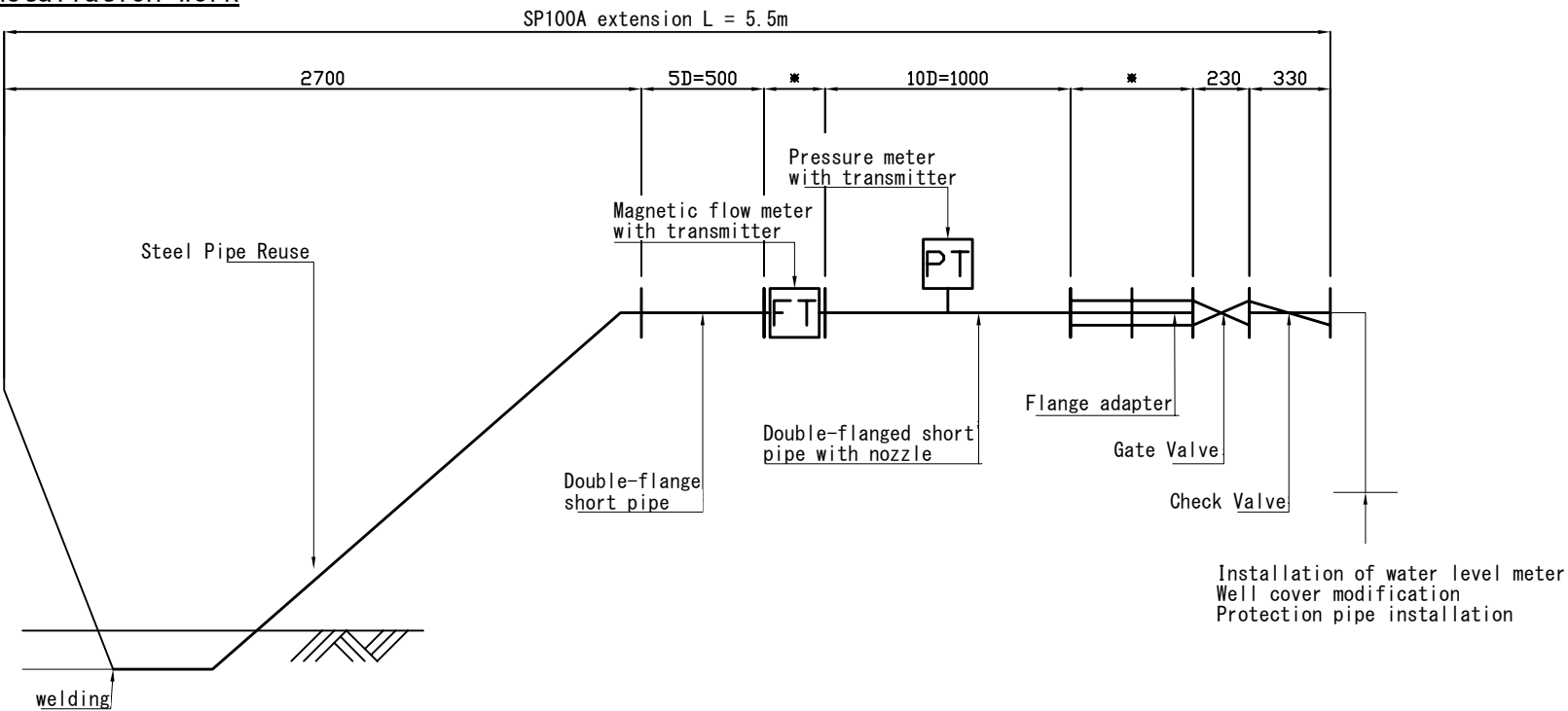



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 <div>WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div> <div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div>	TITLE :  P1-1-W13 Tahouna 15 Well of General Layout Plan	SCALE :	APPROVED BY :
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Piping removal work



Piping - Equipment installation work



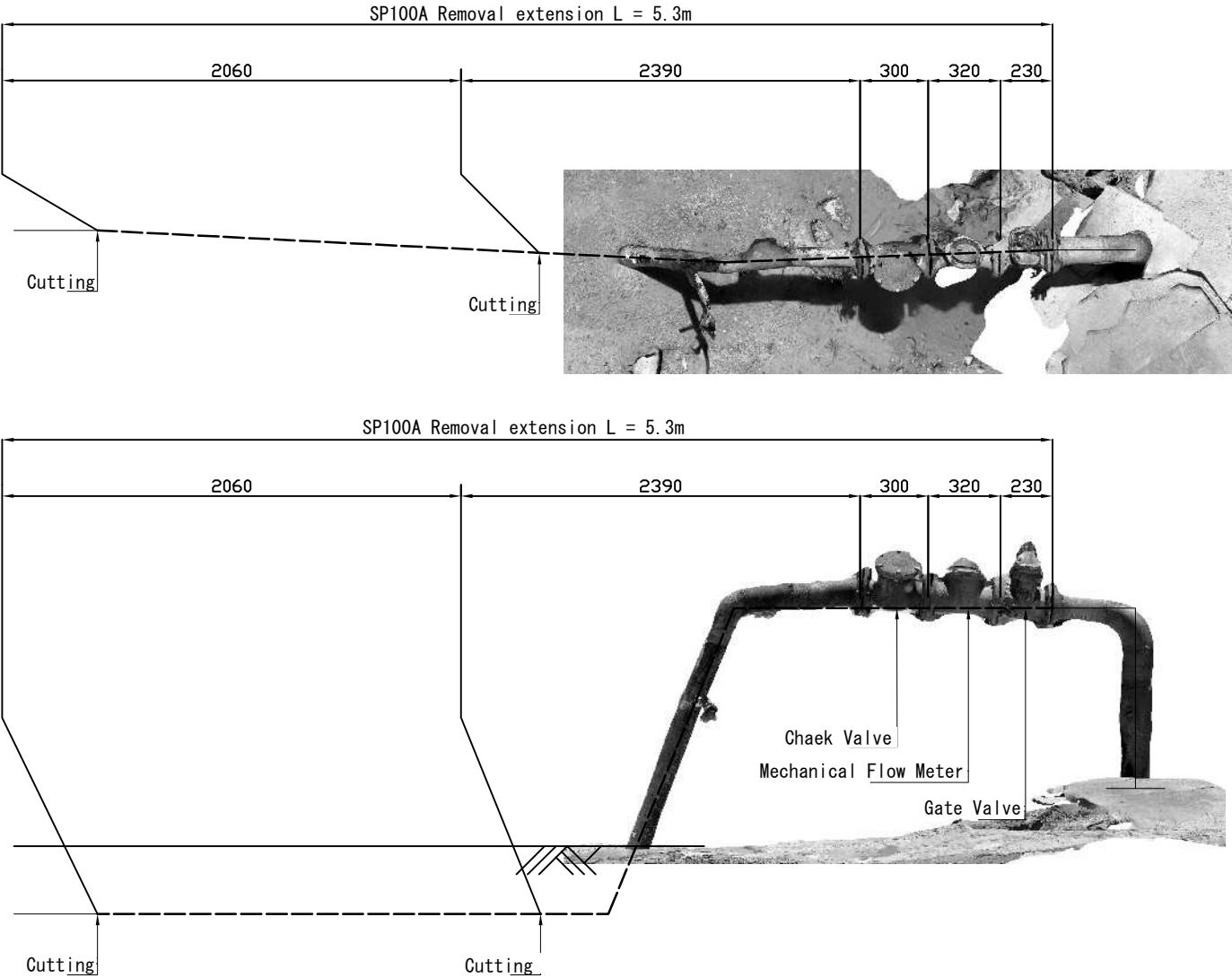
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W13 Tahouna 15 Well of Piping arrangement	SCALE :	APPROVED BY :
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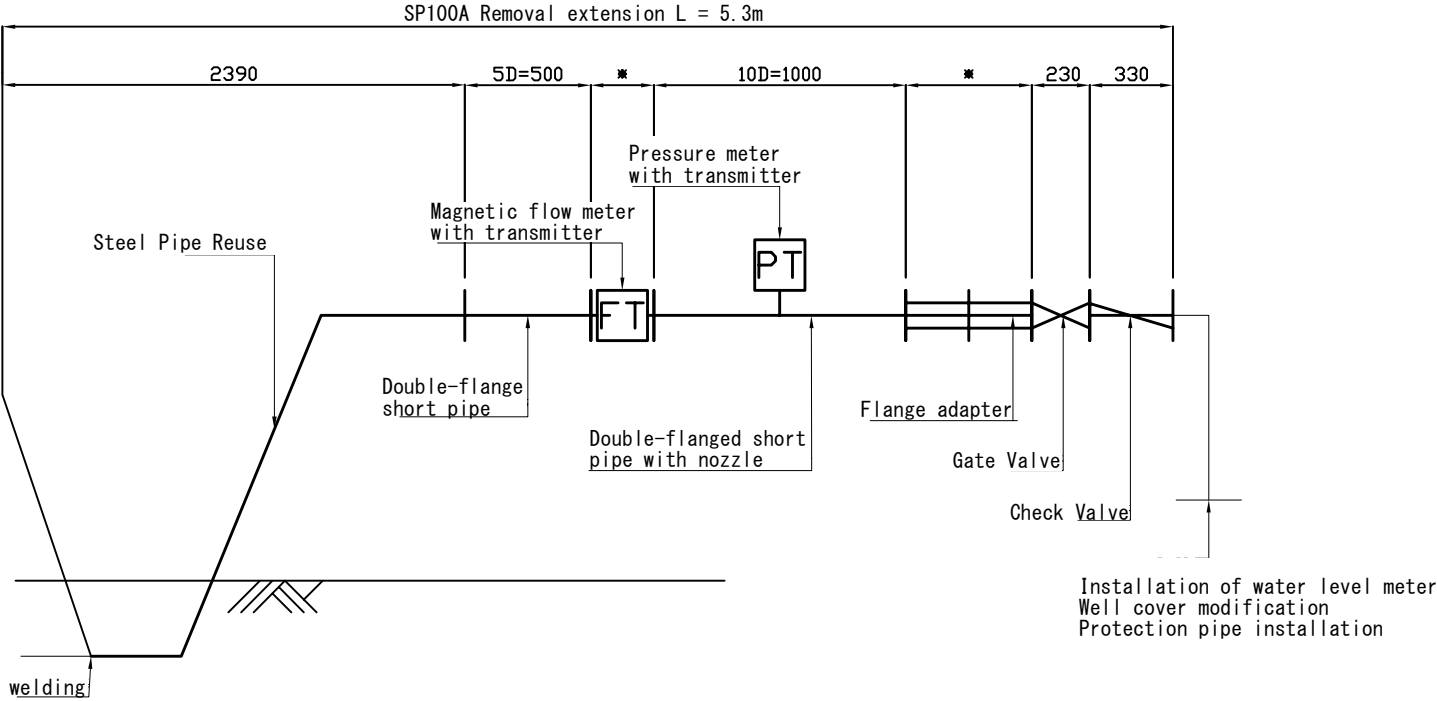





Piping removal work





Piping - Equipment installation work



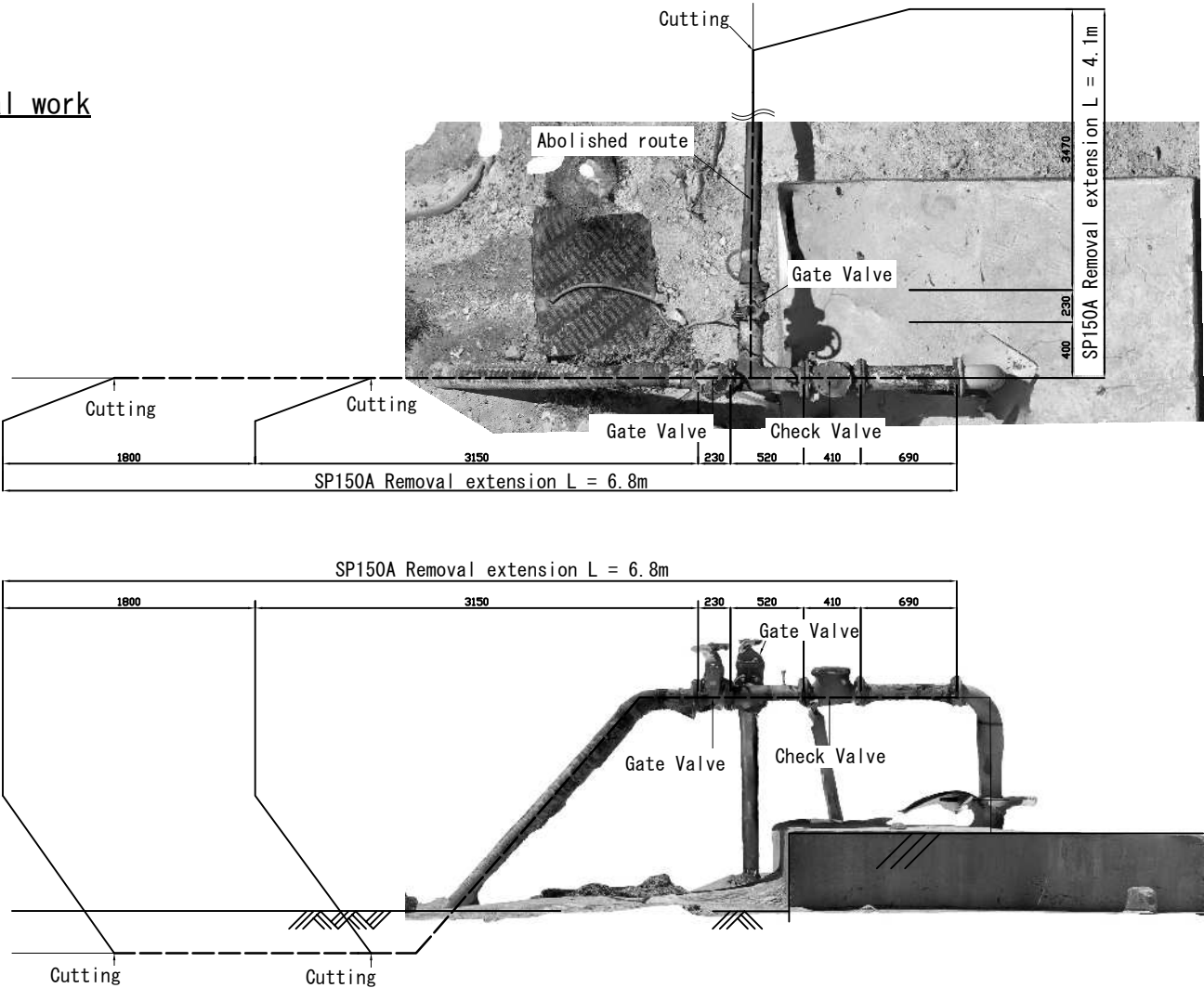
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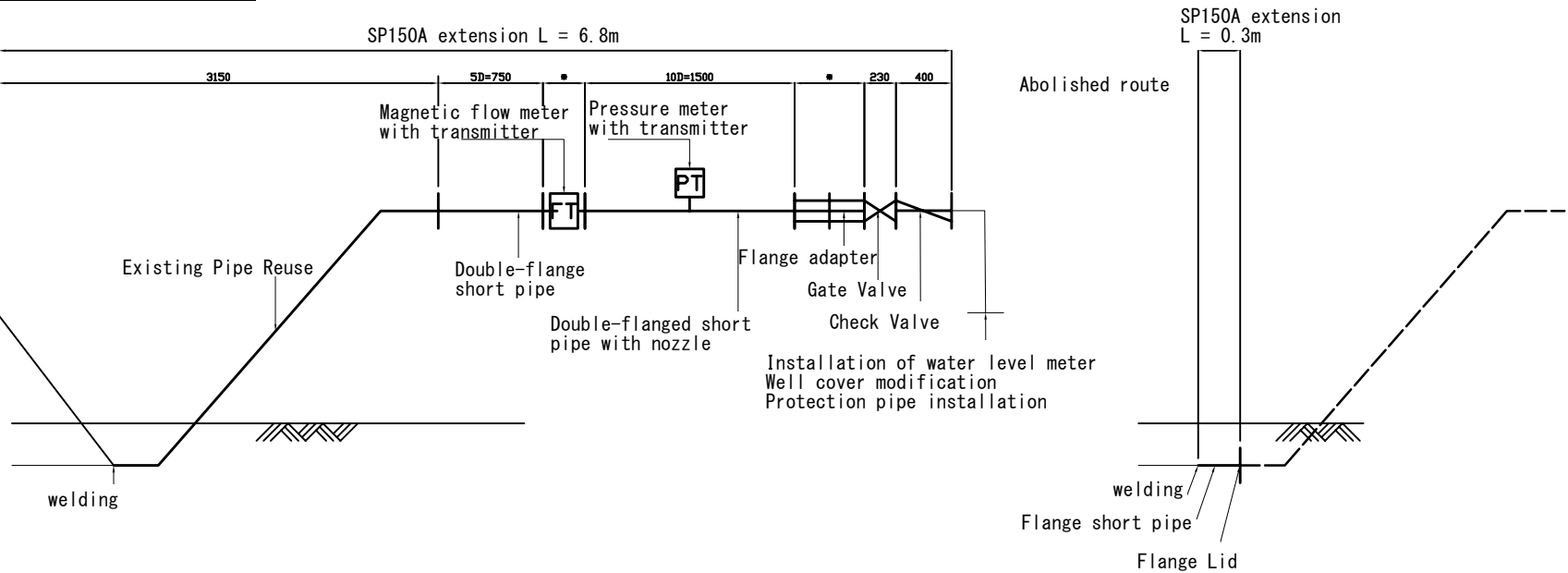
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	 TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  P1-1-W15 Tahouna 17 Well of General Layout Plan	SCALE :	APPROVED BY :
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					DRAWING NO. :	CHECKED BY :
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Piping removal work

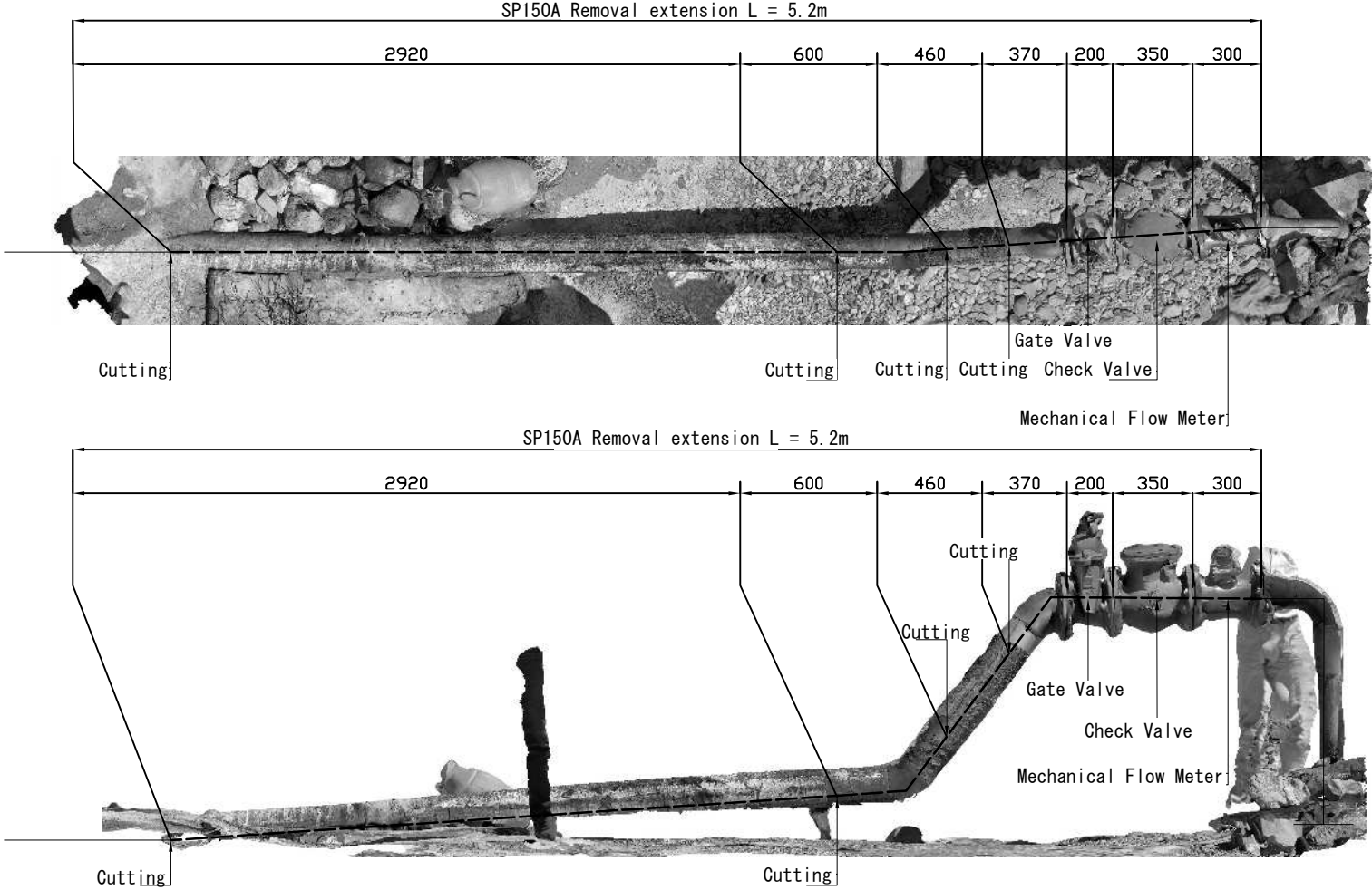


Piping • Equipment installation work

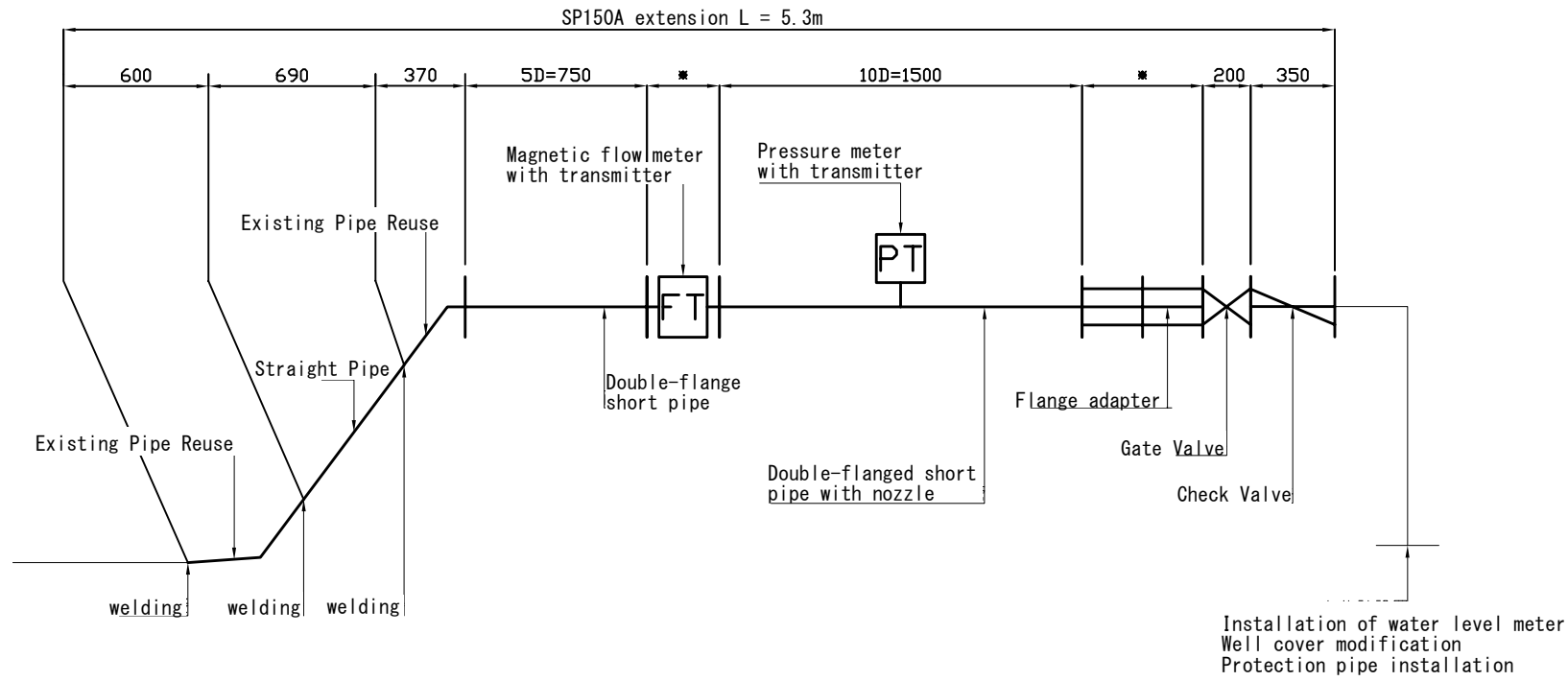



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W15 Tahouna 17 Well of Piping arrangement	SCALE :	APPROVED BY :
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Piping removal work

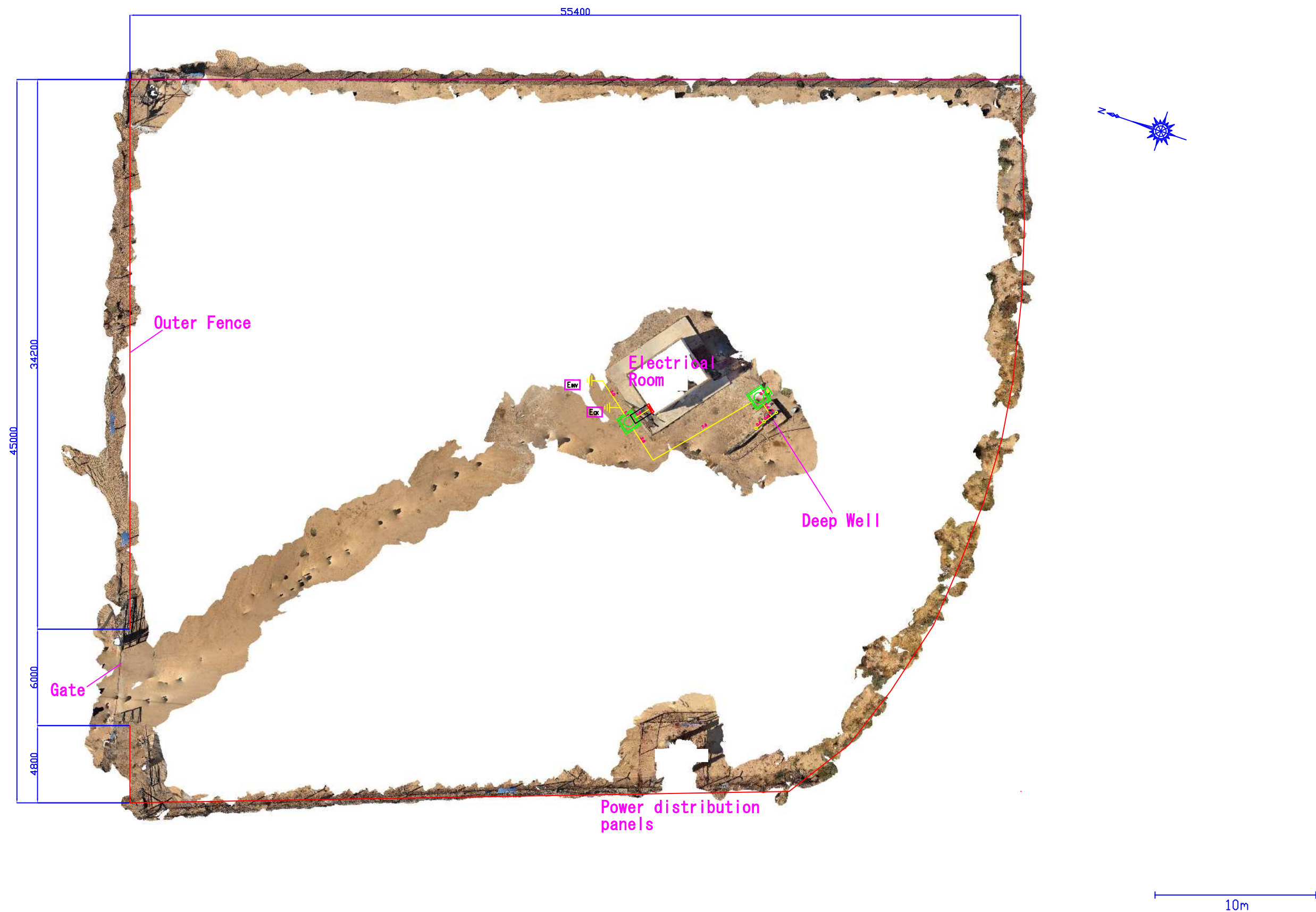



Piping - Equipment installation work



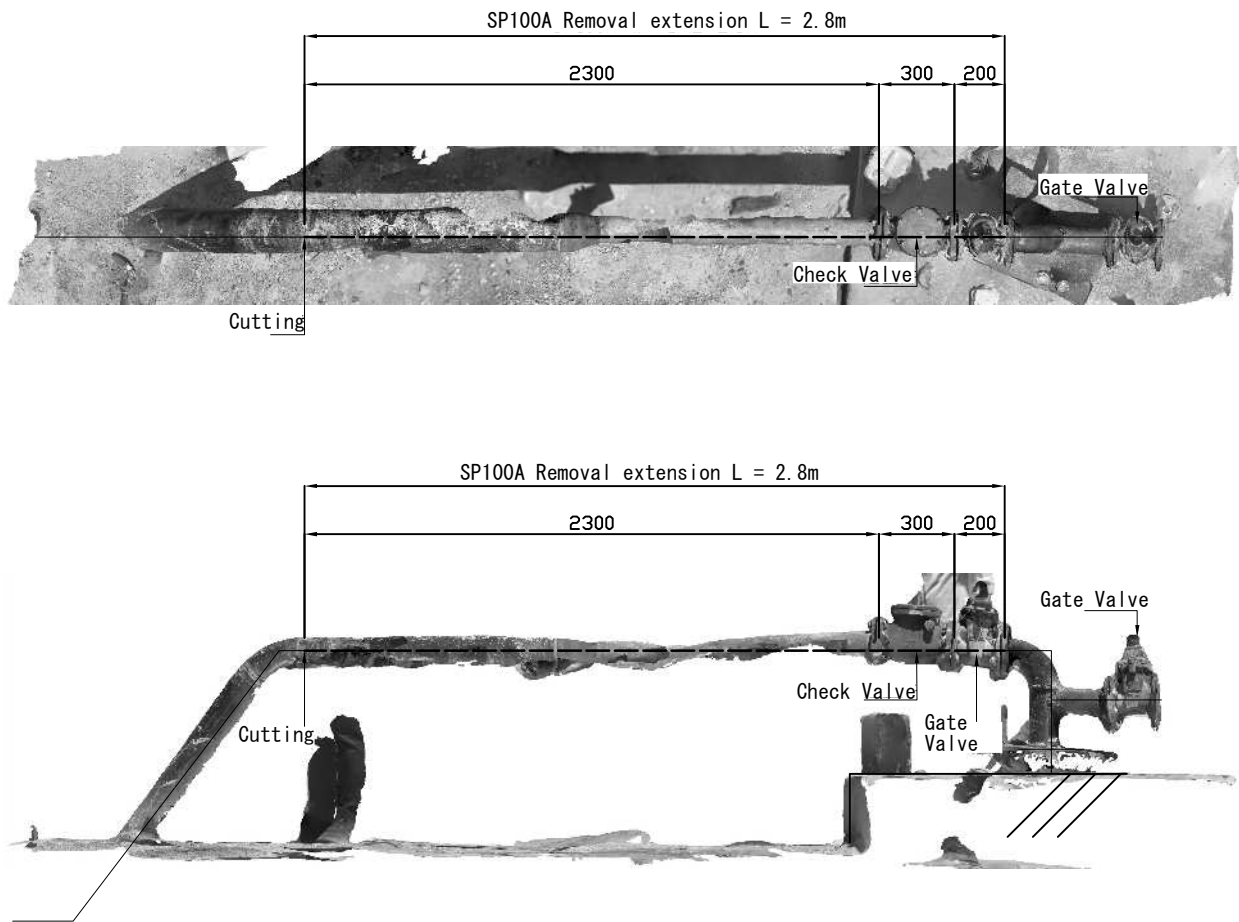
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W16 Tahouna 18 Well of Piping arrangement	SCALE :	APPROVED BY :
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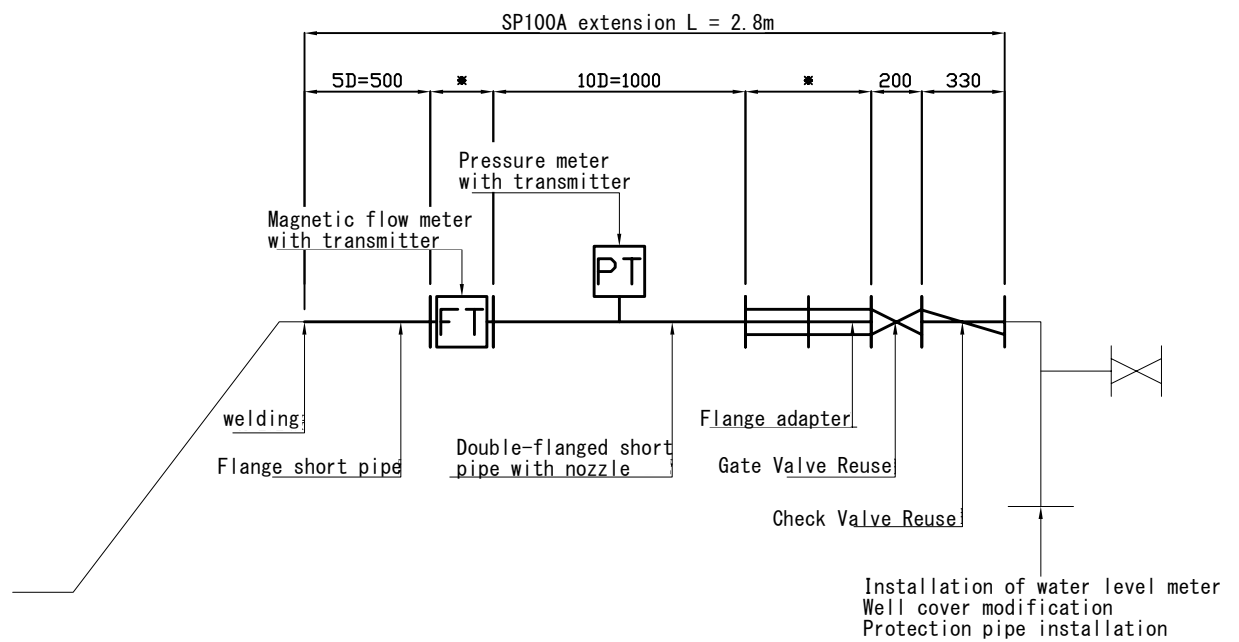



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W17 Wheida 5 Well of General Layout Plan	SCALE :	APPROVED BY :
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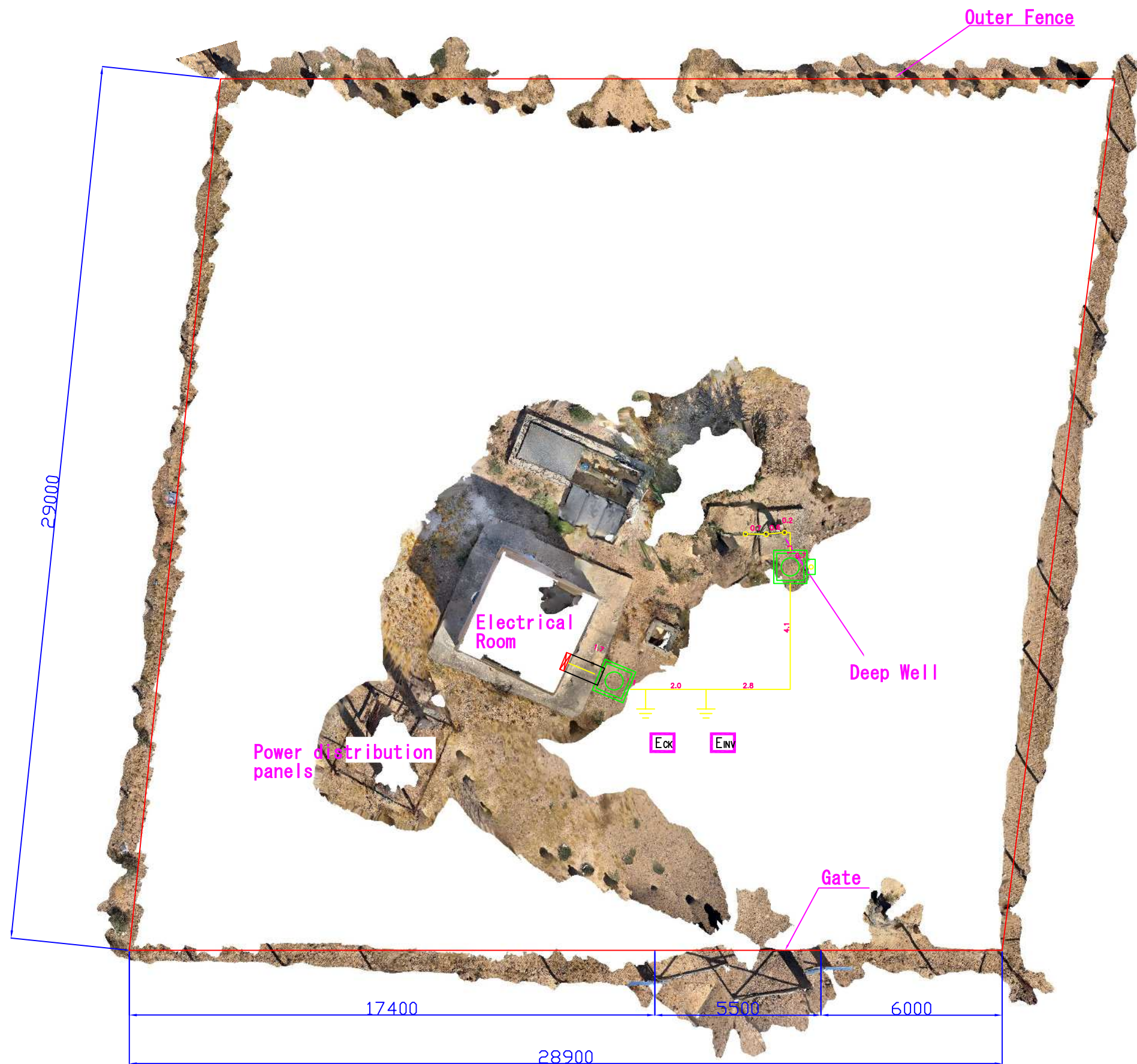
Piping removal work



Piping • Equipment installation work

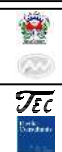


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W17 Wheida 5 Well of Piping arrangement	SCALE :	APPROVED BY :
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				DRAWING NO. :	CHECKED BY :
				M-19	DATE :



REMARKS :

THE PROJECT FOR THE INTRODUCTION OF  
WATER SUPPLY CONTROL SYSTEM  
IN MA'AN GOVERNORATE



WATER AUTHORITY OF JORDAN (WAJ),  
MINISTRY OF WATER AND IRRIGATION,  
THE HASHEMITE KINGDOM OF JORDAN  
AQABA WATER COMPANY (AWC)

TEC INTERNATIONAL CO.,LTD.  
PACIFIC CONSULTANTS CO., LTD.

TITLE :

P1-1-W18 Jitkeh 7 Well of  
General Layout Plan

SCALE :

S=1:150 (A3)

DRAWING NO. :

G-21

APPROVED BY :

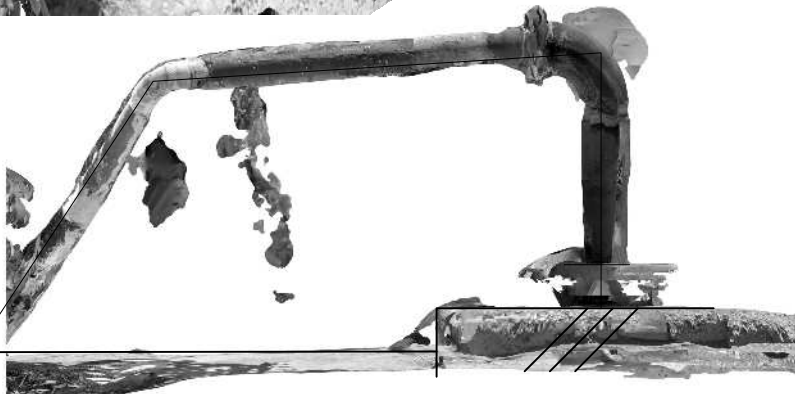
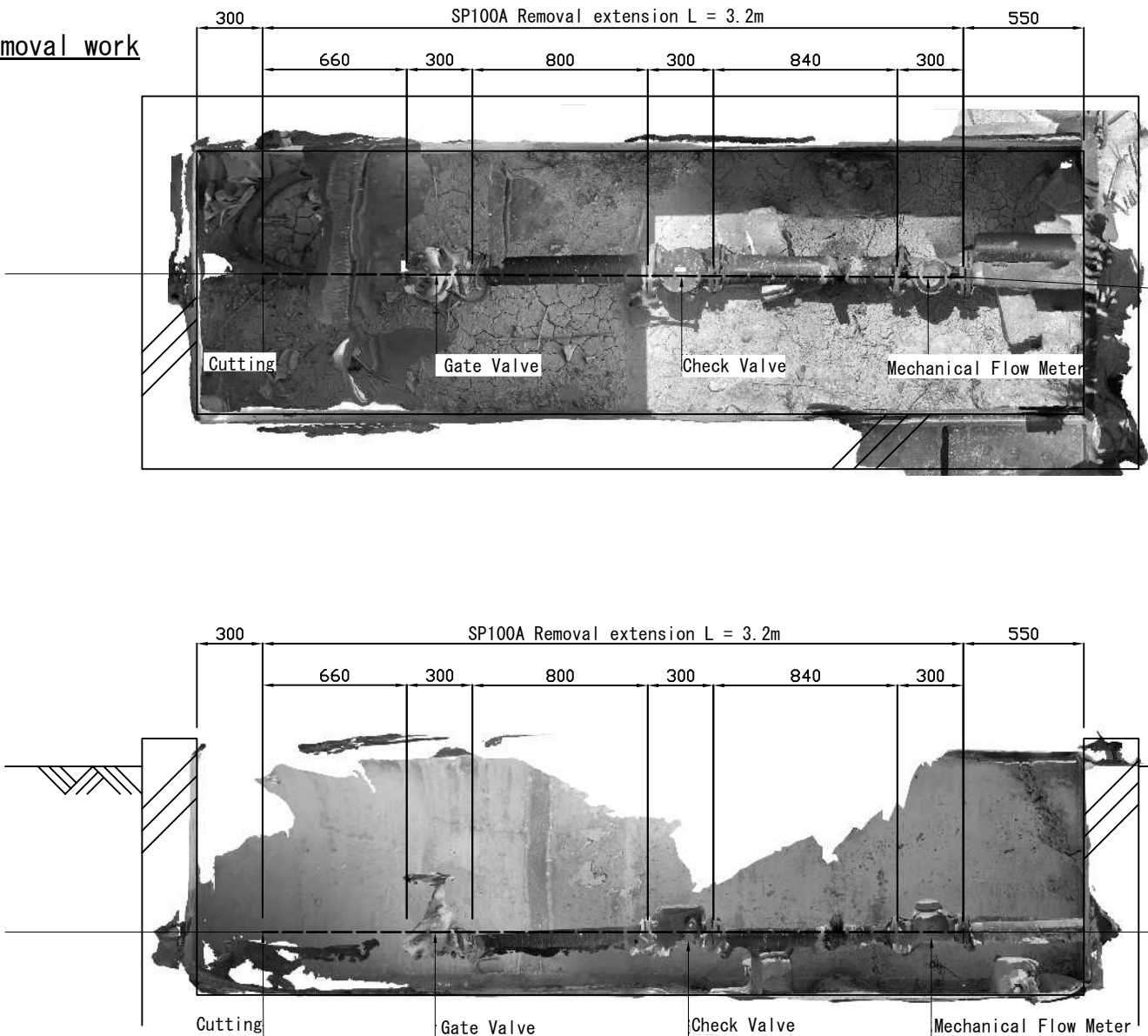
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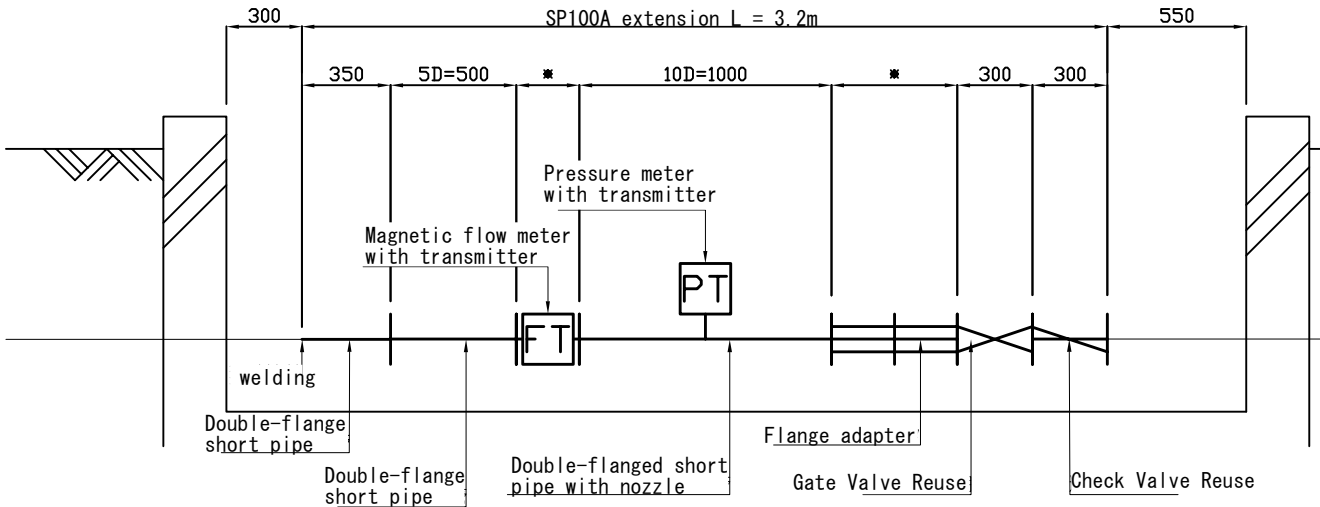
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Piping removal work

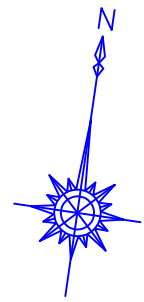
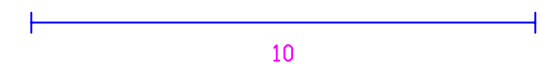
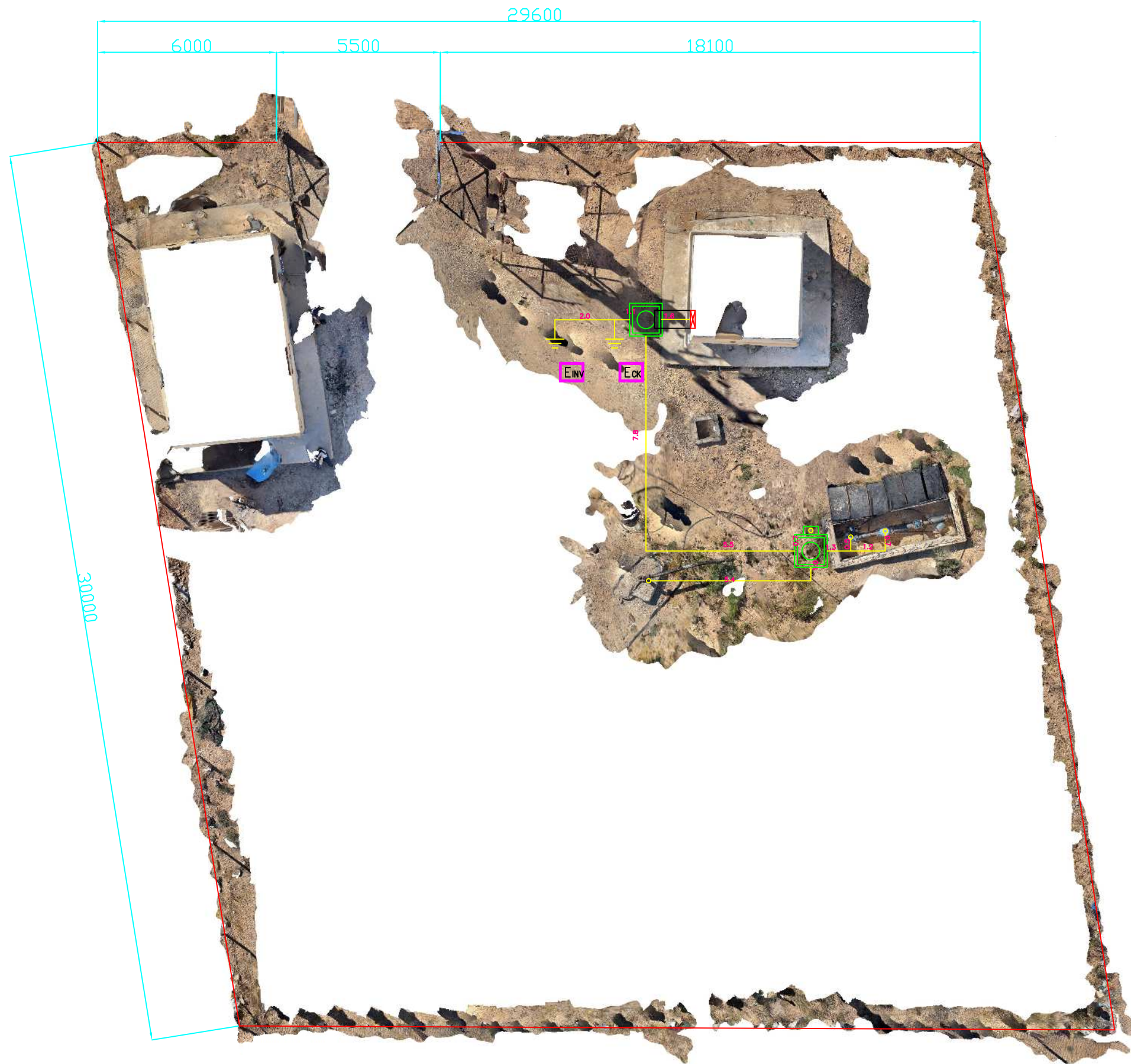




Piping • Equipment installation work

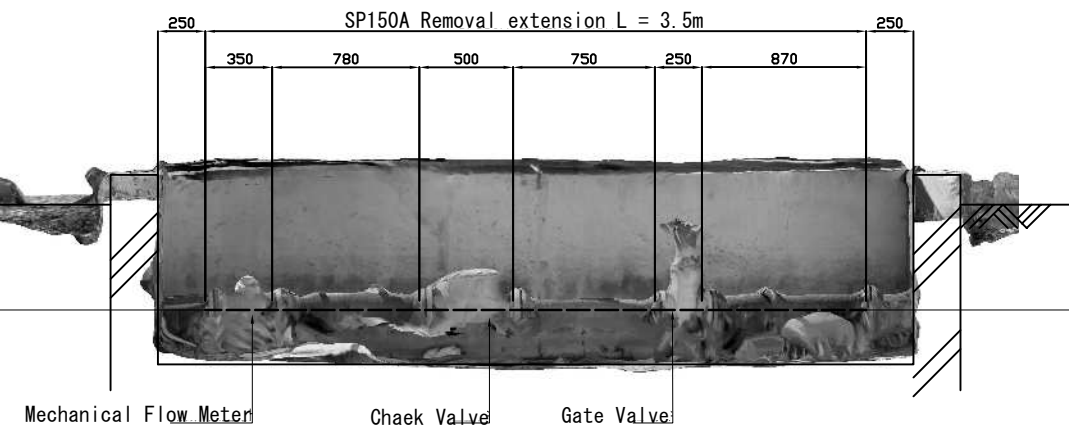
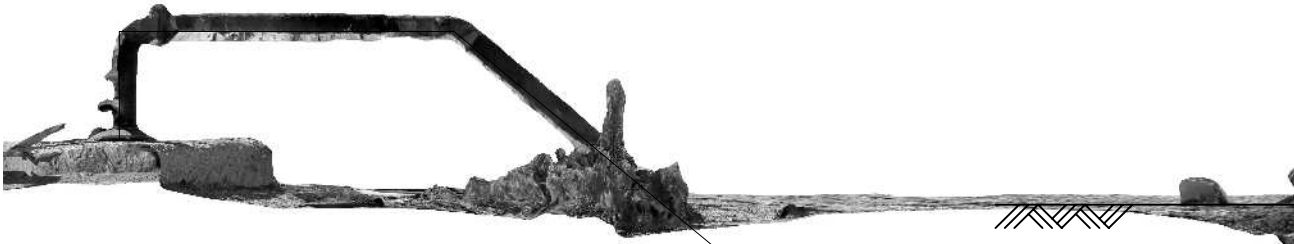
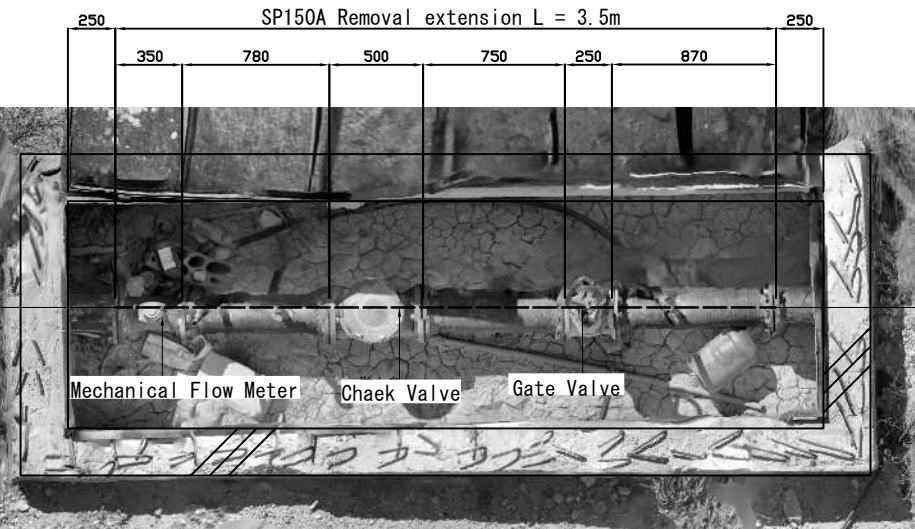


Installation of water level meter  
Well cover modification  
Protection pipe installation

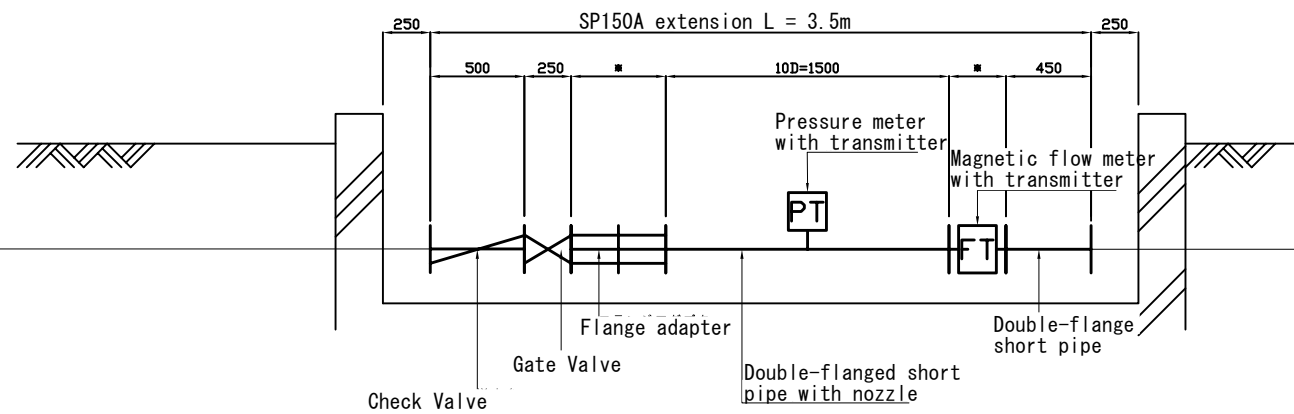
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W18 Jitkeh 7 Well of Piping arrangement	SCALE :	APPROVED BY :
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				DRAWING NO. :	CHECKED BY :
				M-20	DATE :




REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	<div><div> WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div><div> TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div></div>	TITLE : P1-1-W19 Jitkeh 8 Well of General Layout Plan	SCALE : S=1:150 (A3) DRAWING NO. : G-22	APPROVED BY : PREPARED BY : CHECKED BY : DATE :
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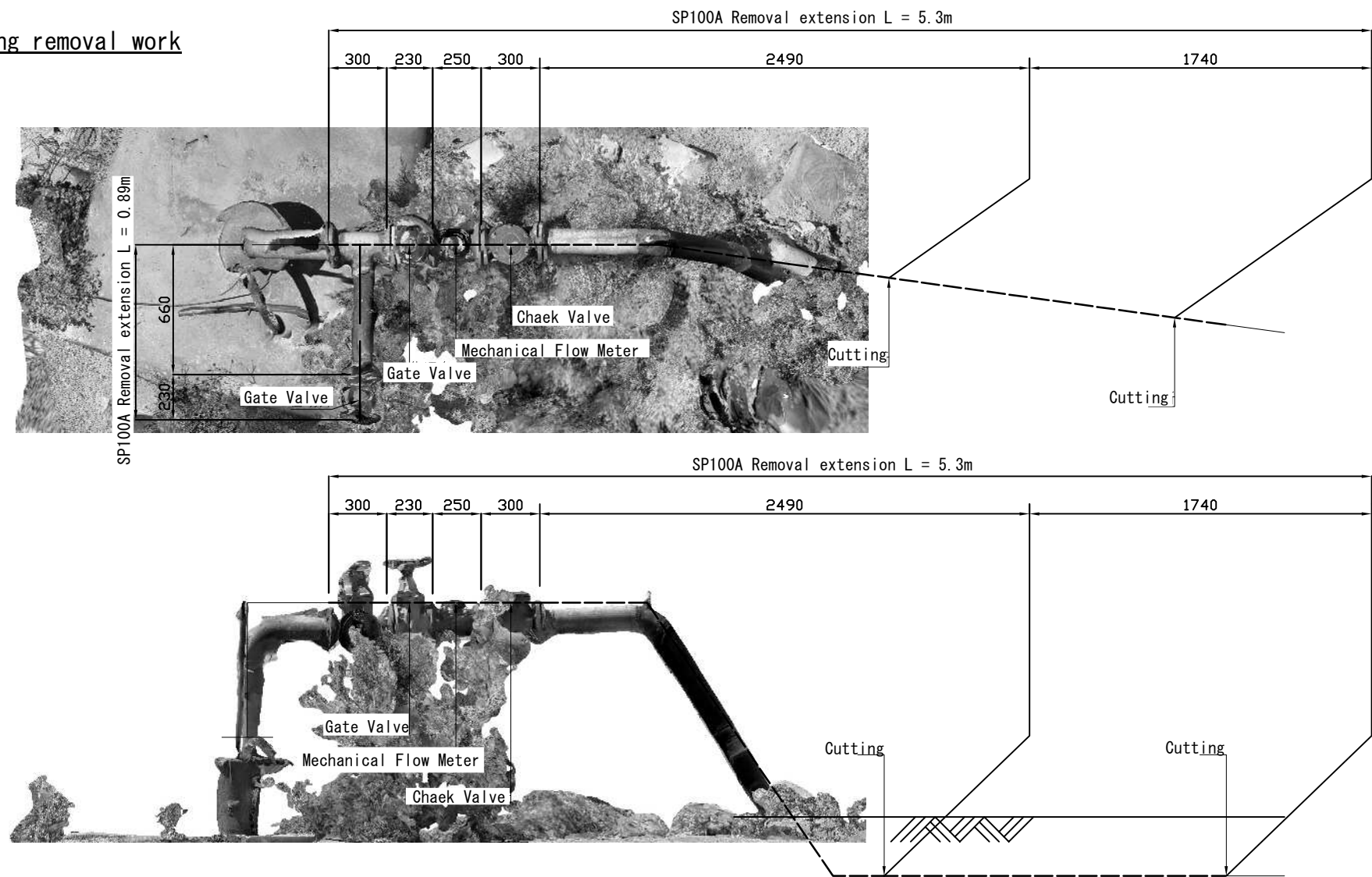
Installation of water level meter  
Well cover modification  
Protection pipe installation



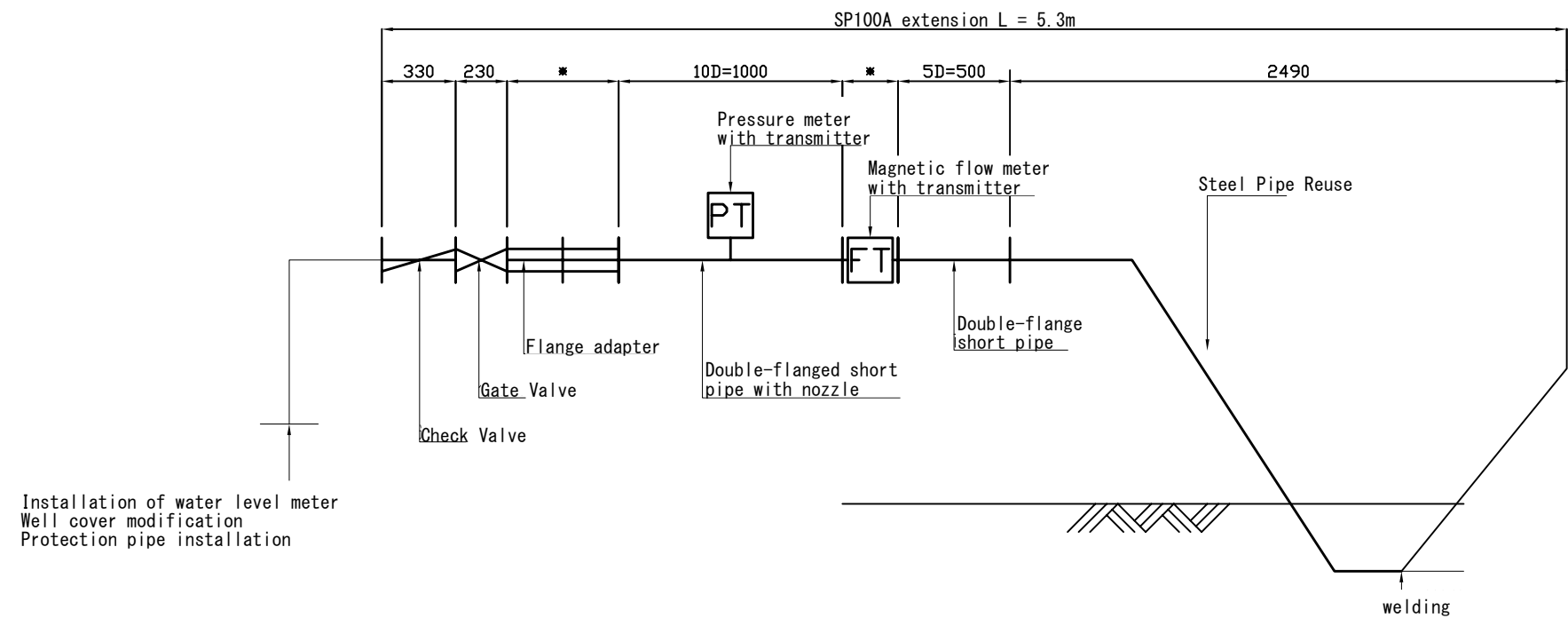
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W19 Jitkeh 8 Well of Piping arrangement	SCALE :	APPROVED BY :
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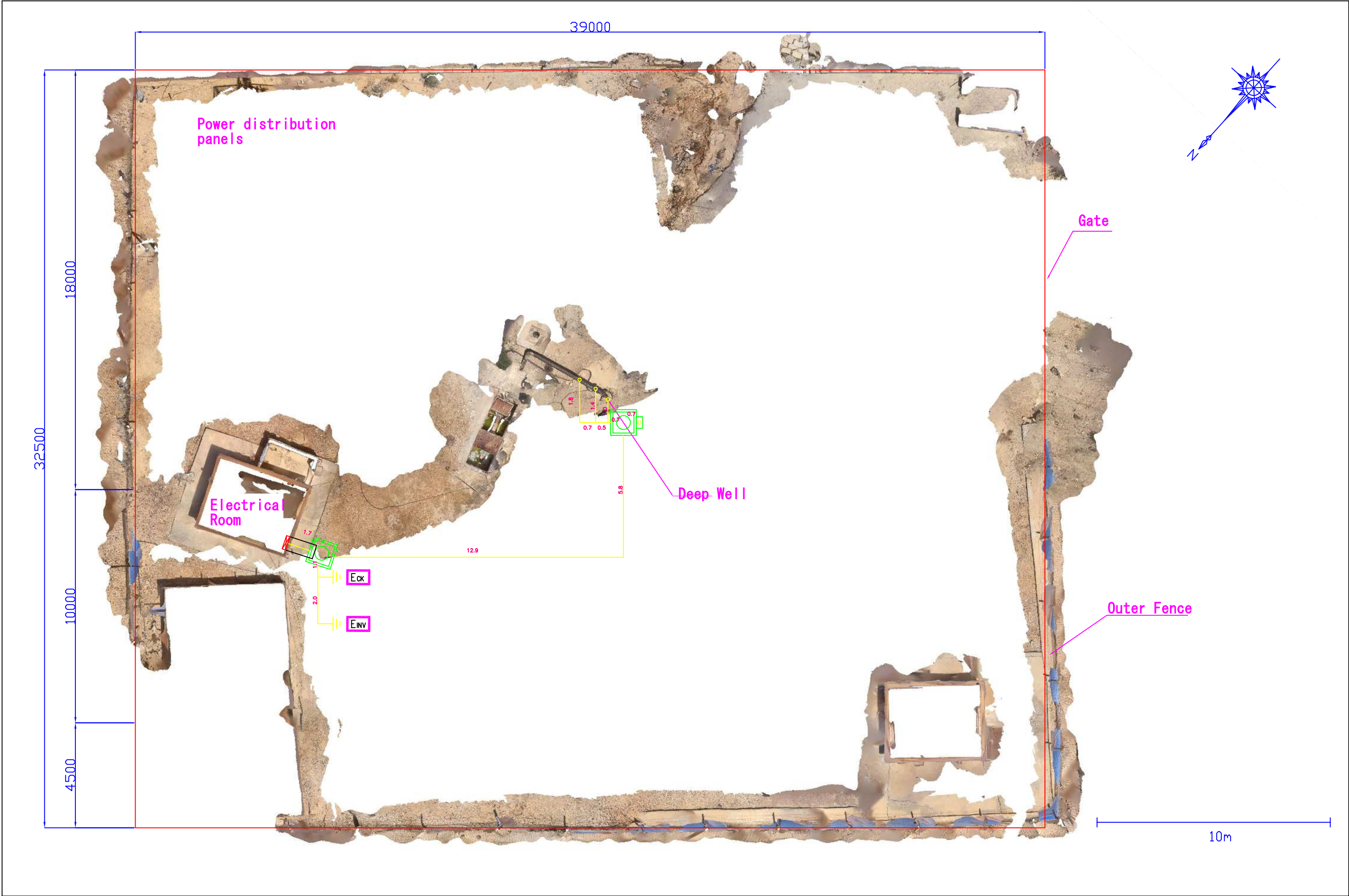
Piping removal work





Piping - Equipment installation work

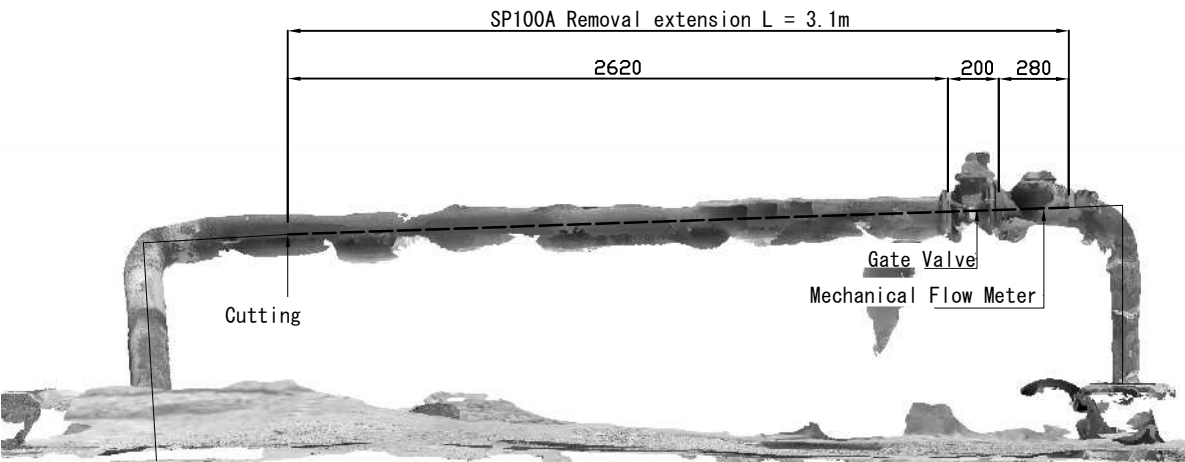
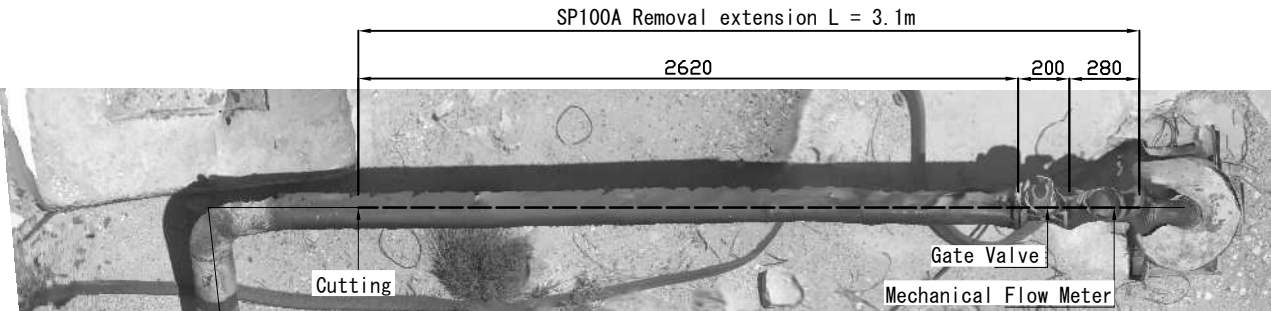


REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W20 Sath Maan Well of Piping arrangement	SCALE :	APPROVED BY :
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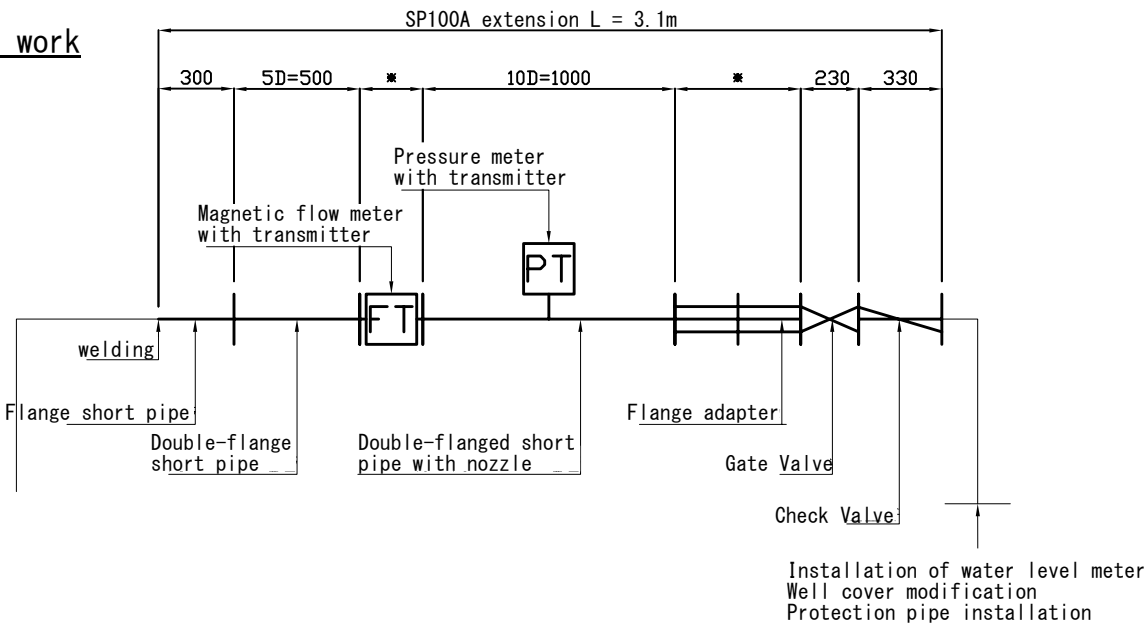



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	 TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  P1-1-W21 Samna 1 Well of General Layout Plan	SCALE :	APPROVED BY :
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Piping removal work

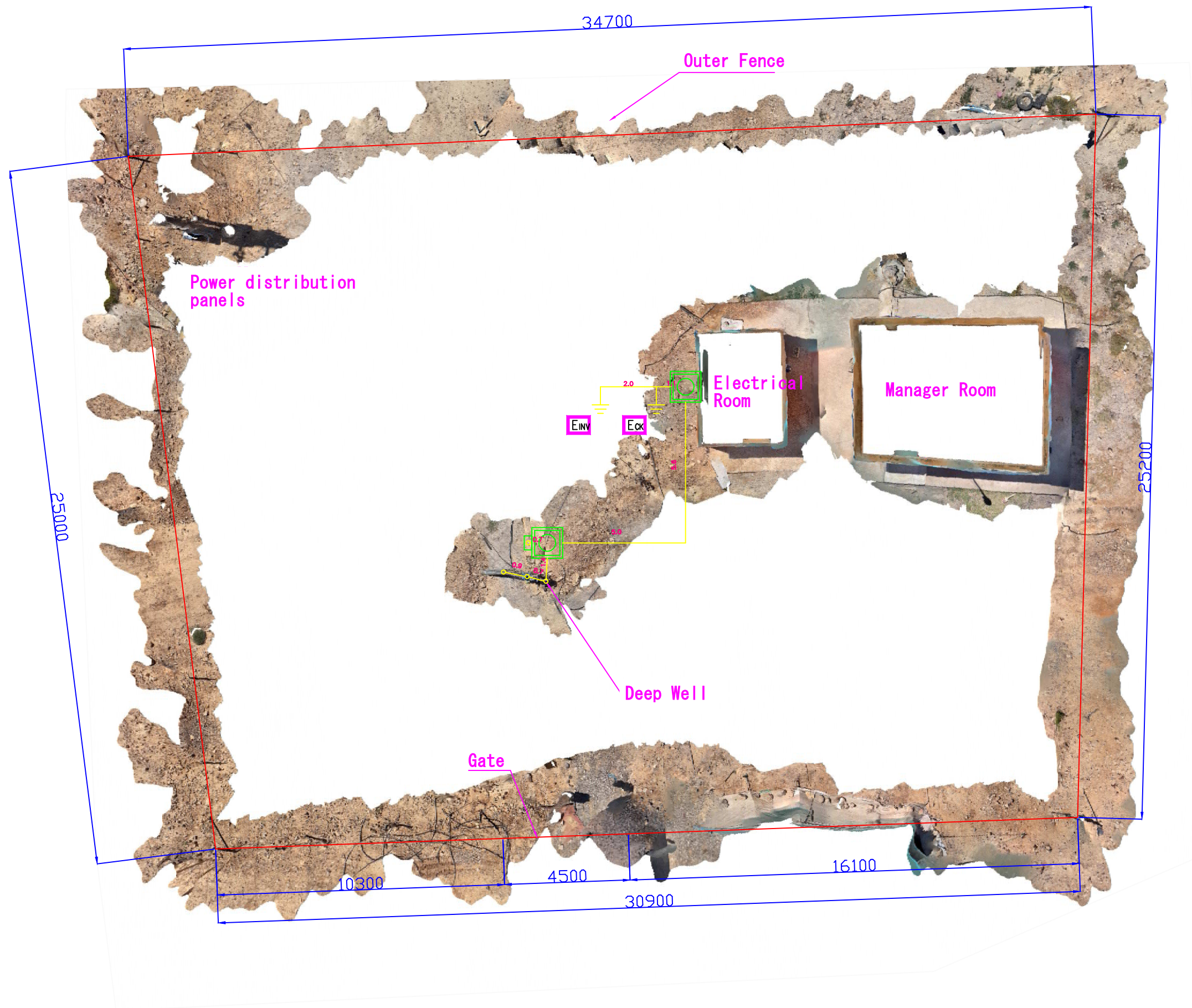



Piping • Equipment installation work



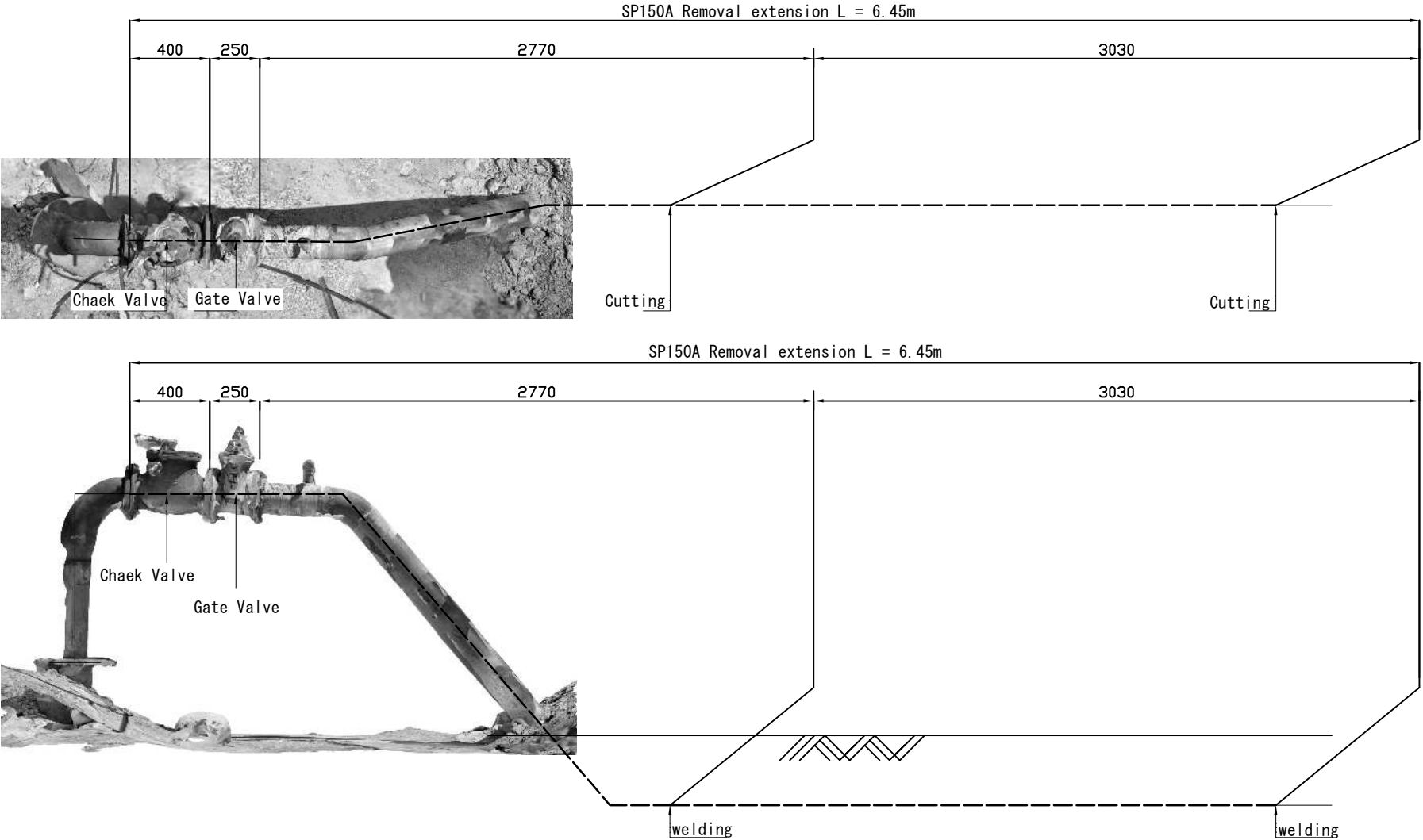
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W21 Samna 1 Well of Piping arrangement	SCALE :  S=1:30 (A3)	APPROVED BY :
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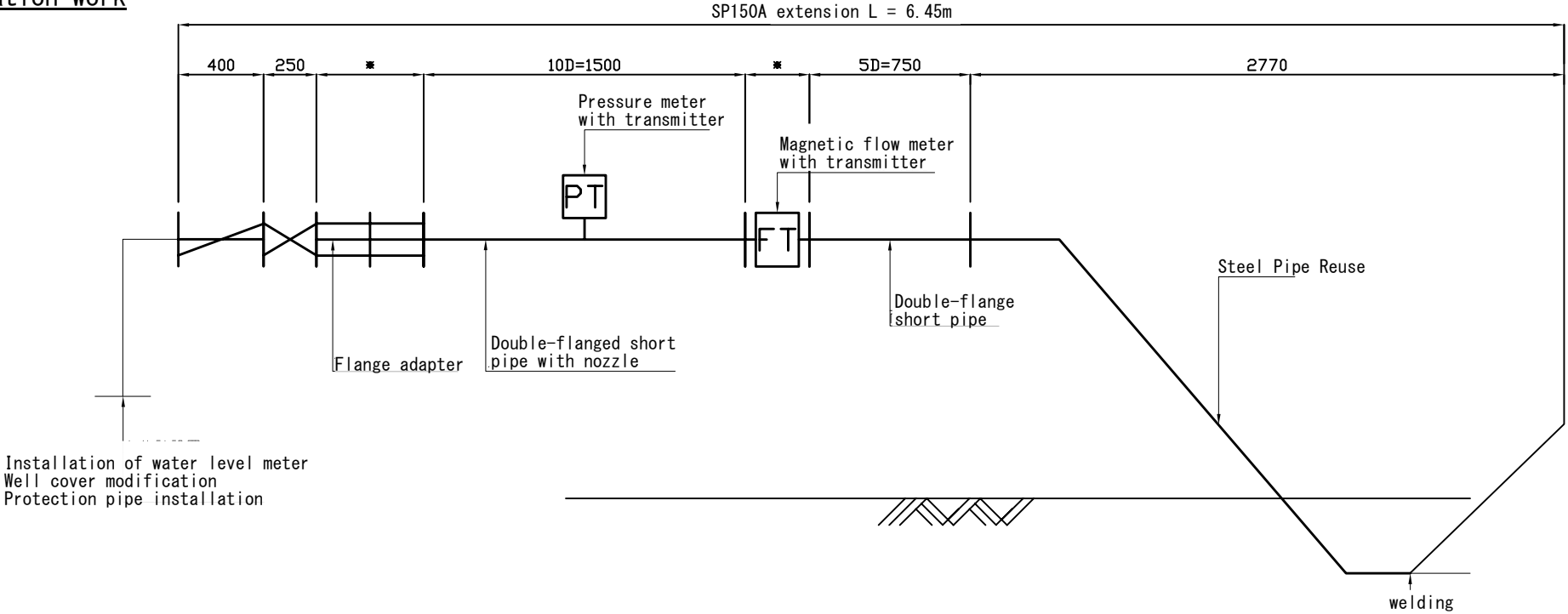



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC) TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  P1-1-W22 Samna 2 Well of General Layout Plan	SCALE :	APPROVED BY :
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Piping removal work

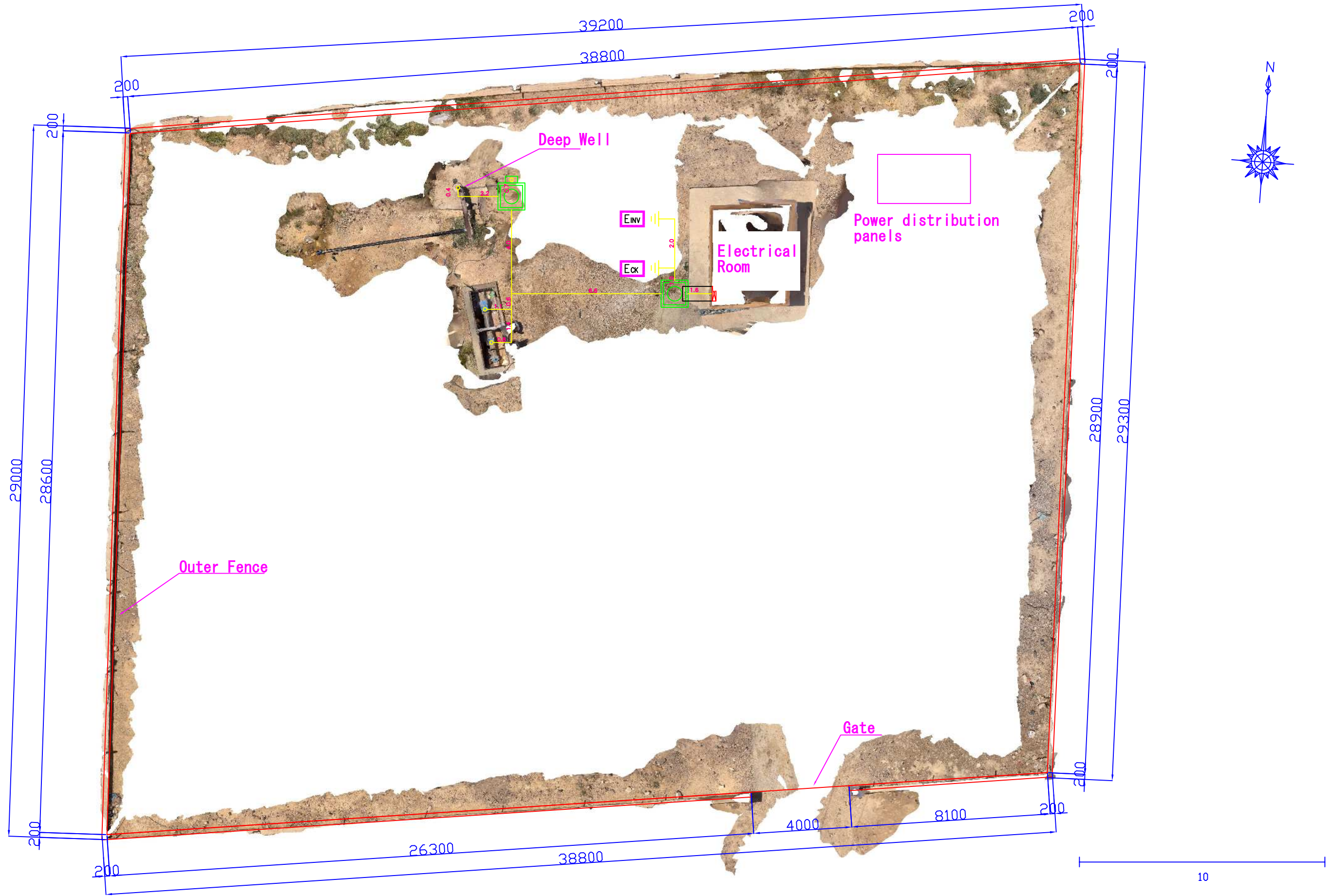




Piping - Equipment installation work



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 <div>WATER AUTHORITY OF JORDAN (WAOJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div> <div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div>	TITLE :  P1-1-W22 Samna 2 Well of Piping arrangement	SCALE :	APPROVED BY :
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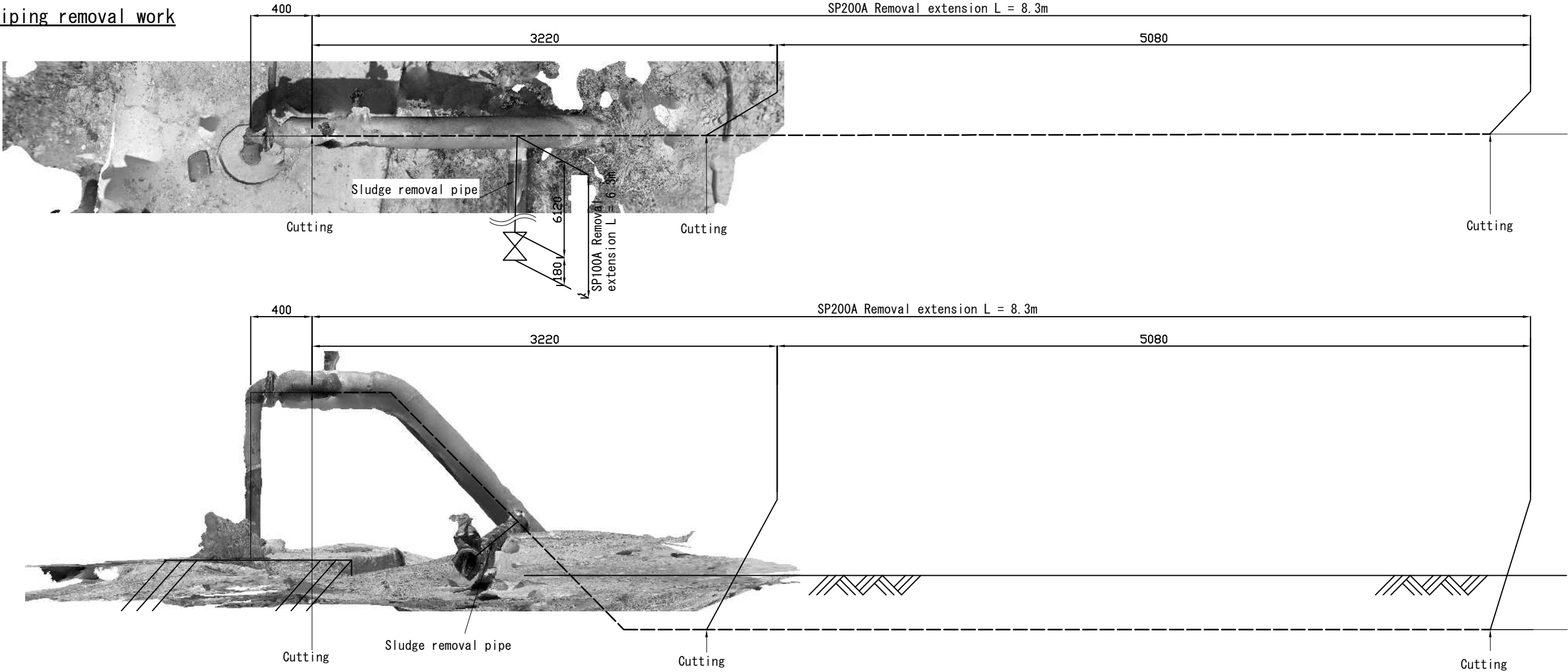




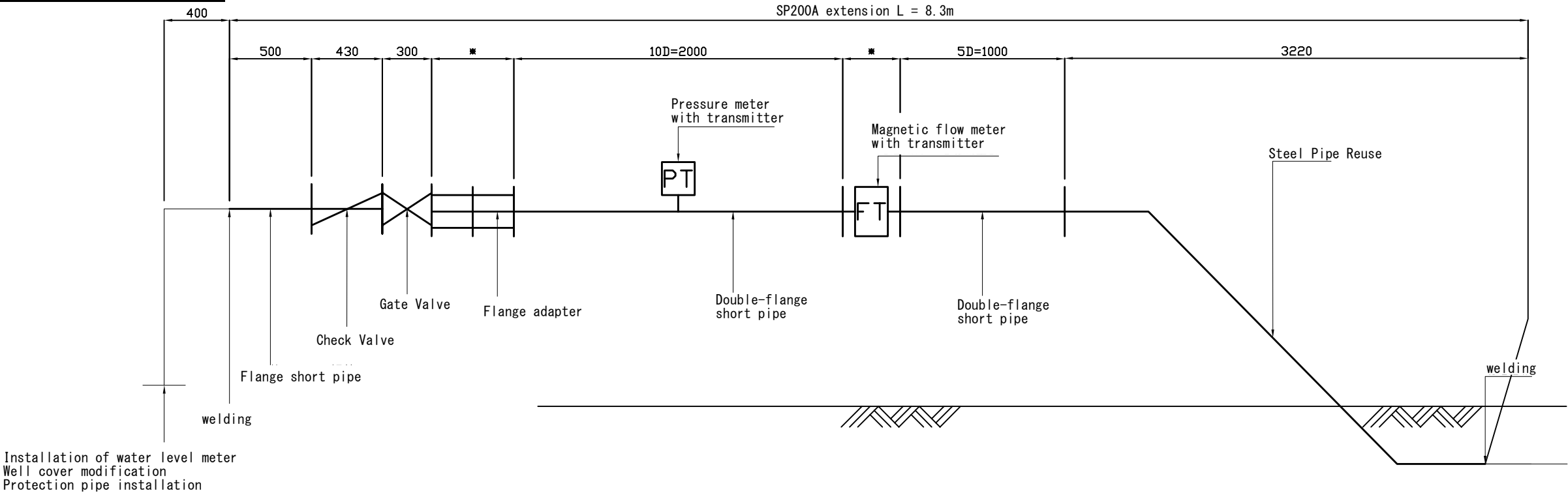
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Piping removal work



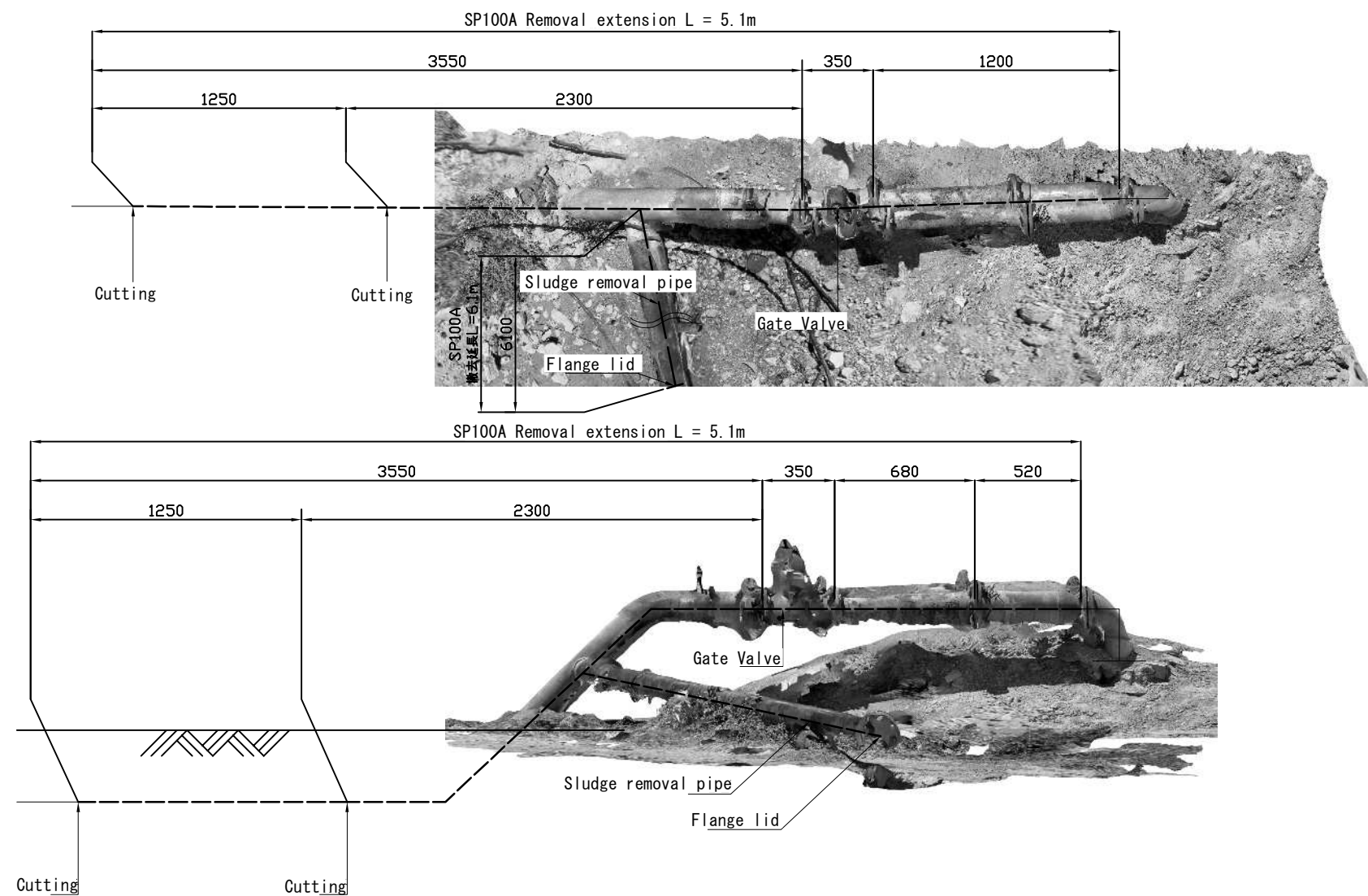
Piping - Equipment installation work



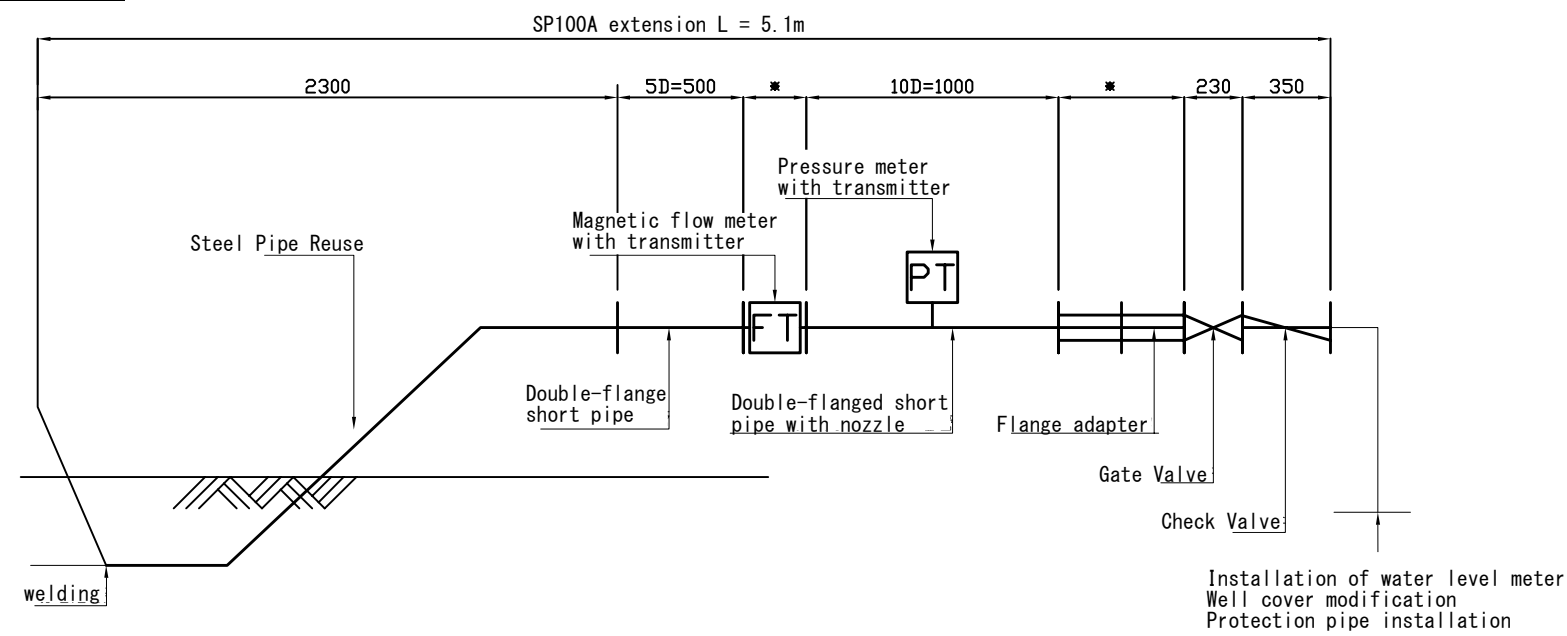
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Piping removal work

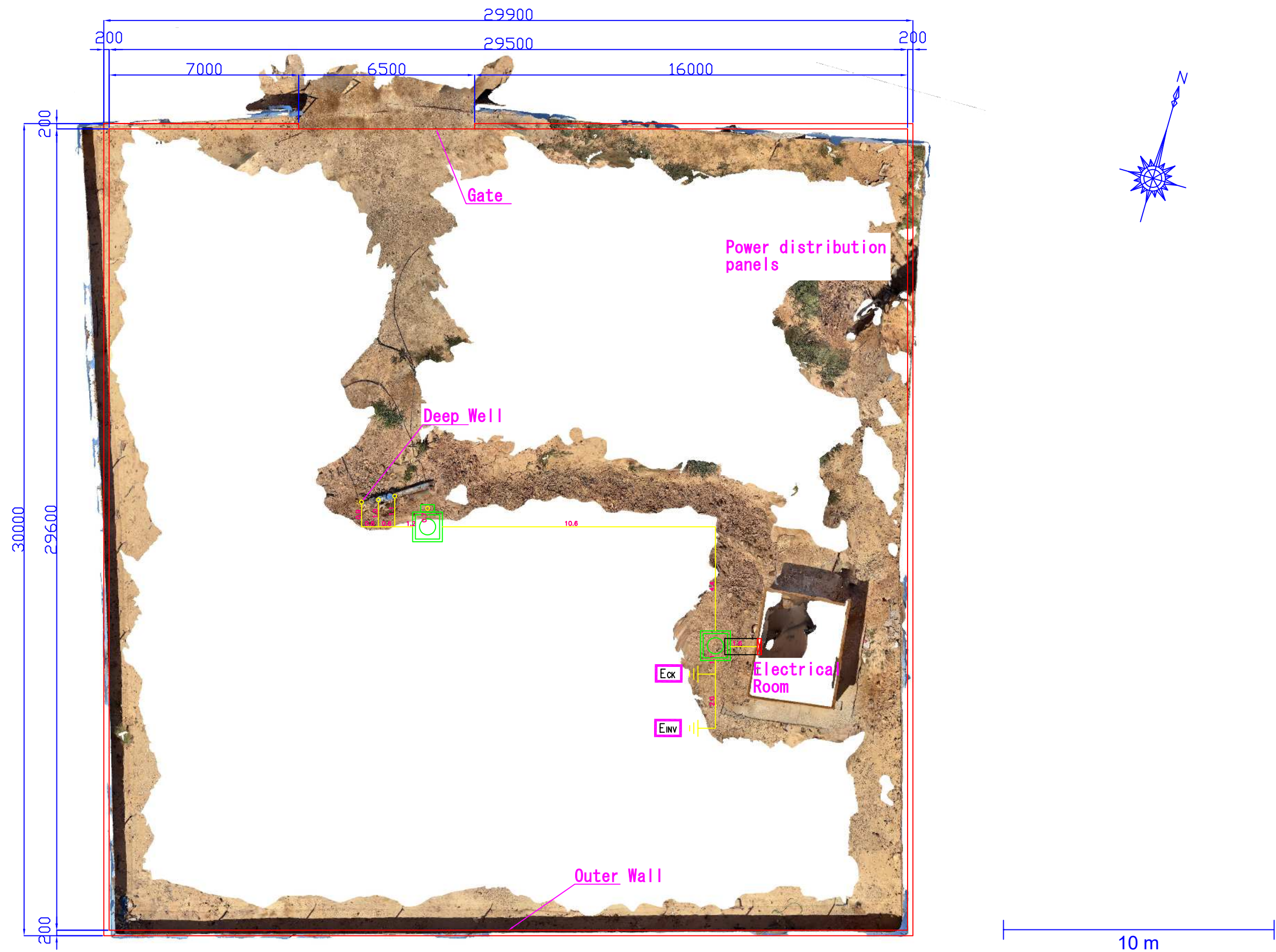




Piping - Equipment installation work



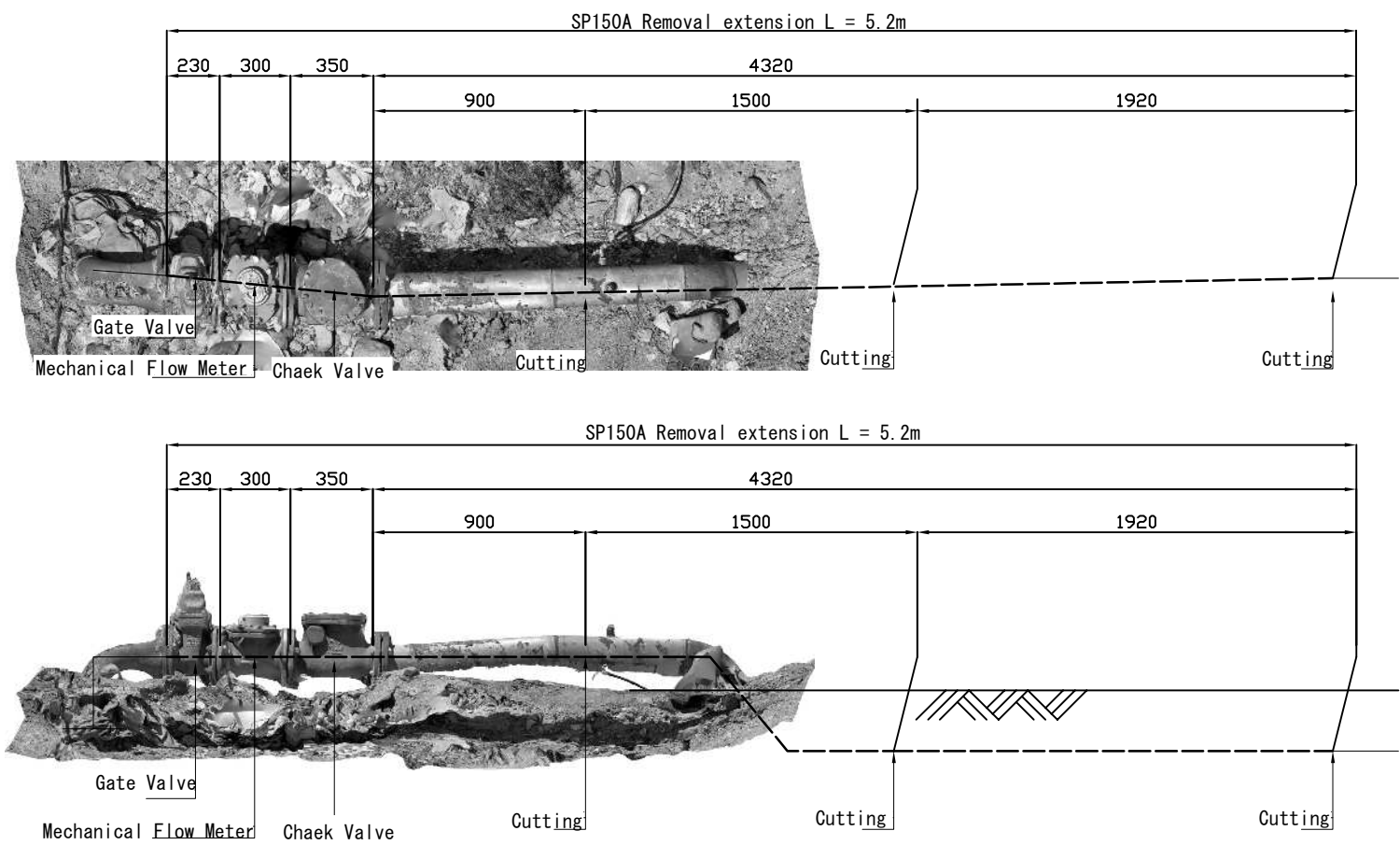
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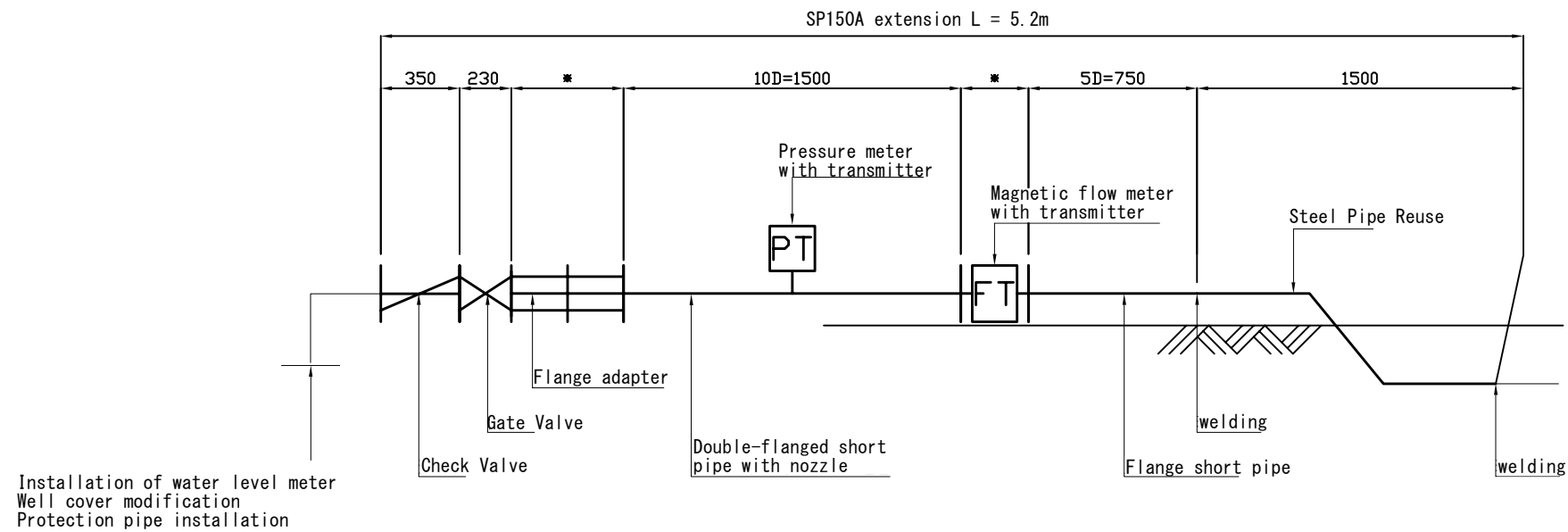



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (W.A.J.), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	 TEC INTERNATIONAL CO., LTD. PACIFIC CONSULTANTS CO., LTD.	TITLE :  P1-1-W26 Samna 7 Well of General Layout Plan	SCALE :	APPROVED BY :
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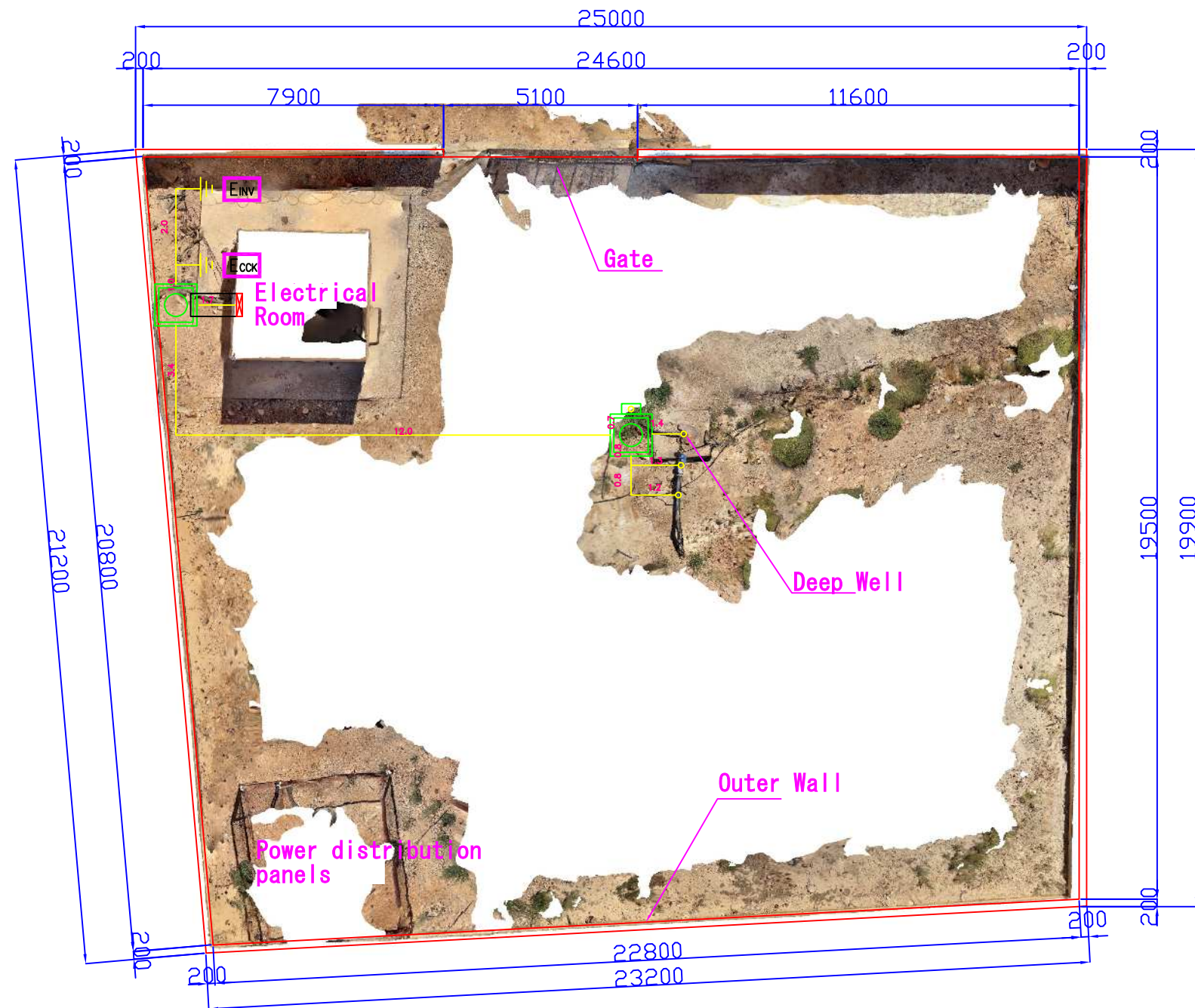
Piping removal work



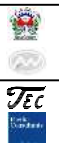
Piping - Equipment installation work



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W26 Samna 7 Well of Piping arrangement	SCALE :	APPROVED BY :
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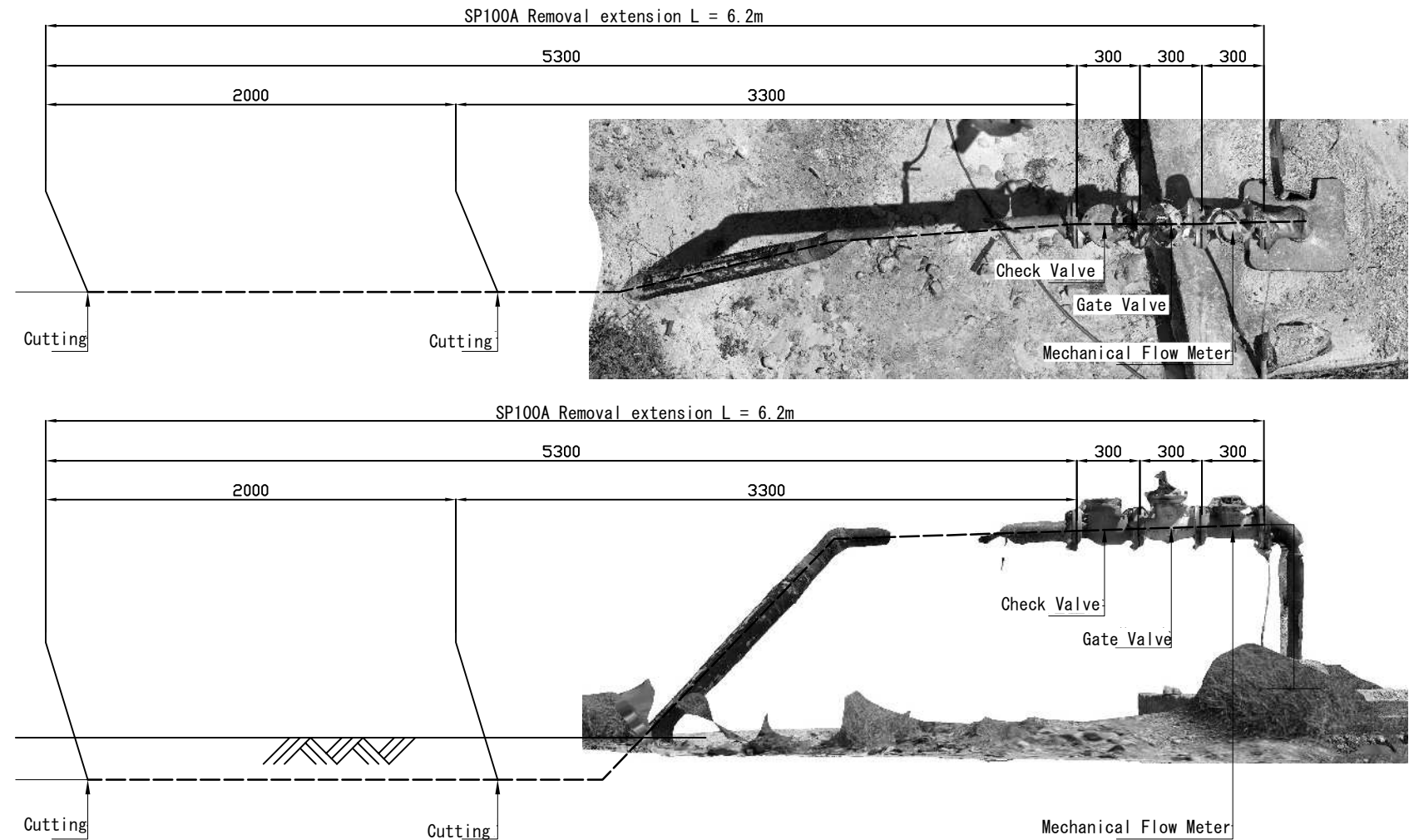


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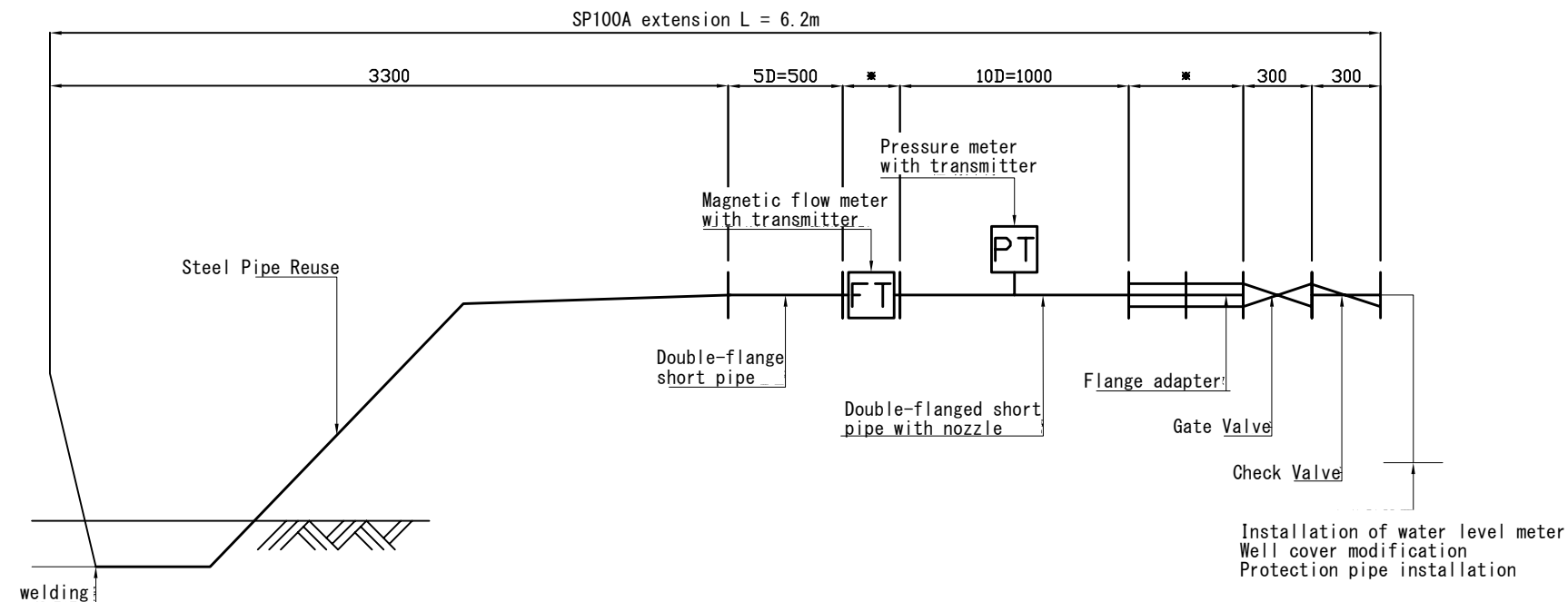
REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 <div>WATER AUTHORITY OF JORDAN (WAJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)</div> <div>TEC INTERNATIONAL CO.,LTD. PACIFIC CONSULTANTS CO., LTD.</div>	TITLE :  P1-1-W27 Samna 8 Well of General Layout Plan	SCALE :	APPROVED BY :
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				G-28	DATE :




Piping removal work



Piping - Equipment installation work



REMARKS :	THE PROJECT FOR THE INTRODUCTION OF WATER SUPPLY CONTROL SYSTEM IN MA'AN GOVERNORATE	 WATER AUTHORITY OF JORDAN (WAOJ), MINISTRY OF WATER AND IRRIGATION, THE HASHEMITE KINGDOM OF JORDAN AQABA WATER COMPANY (AWC)	TITLE :  P1-1-W27 Samna 8 Well of Piping arrangement	SCALE :	APPROVED BY :
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