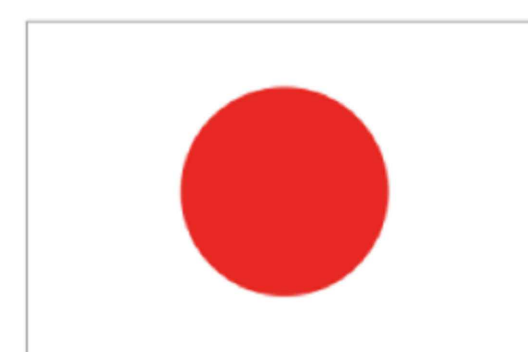




United Nations Development Programme
Programme of Assistance to the Palestinian People
برنامج الأمم المتحدة الانمائي / برنامج مساعدة الشعب الفلسطيني



من الشعب الياباني
From the People of Japan



Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling

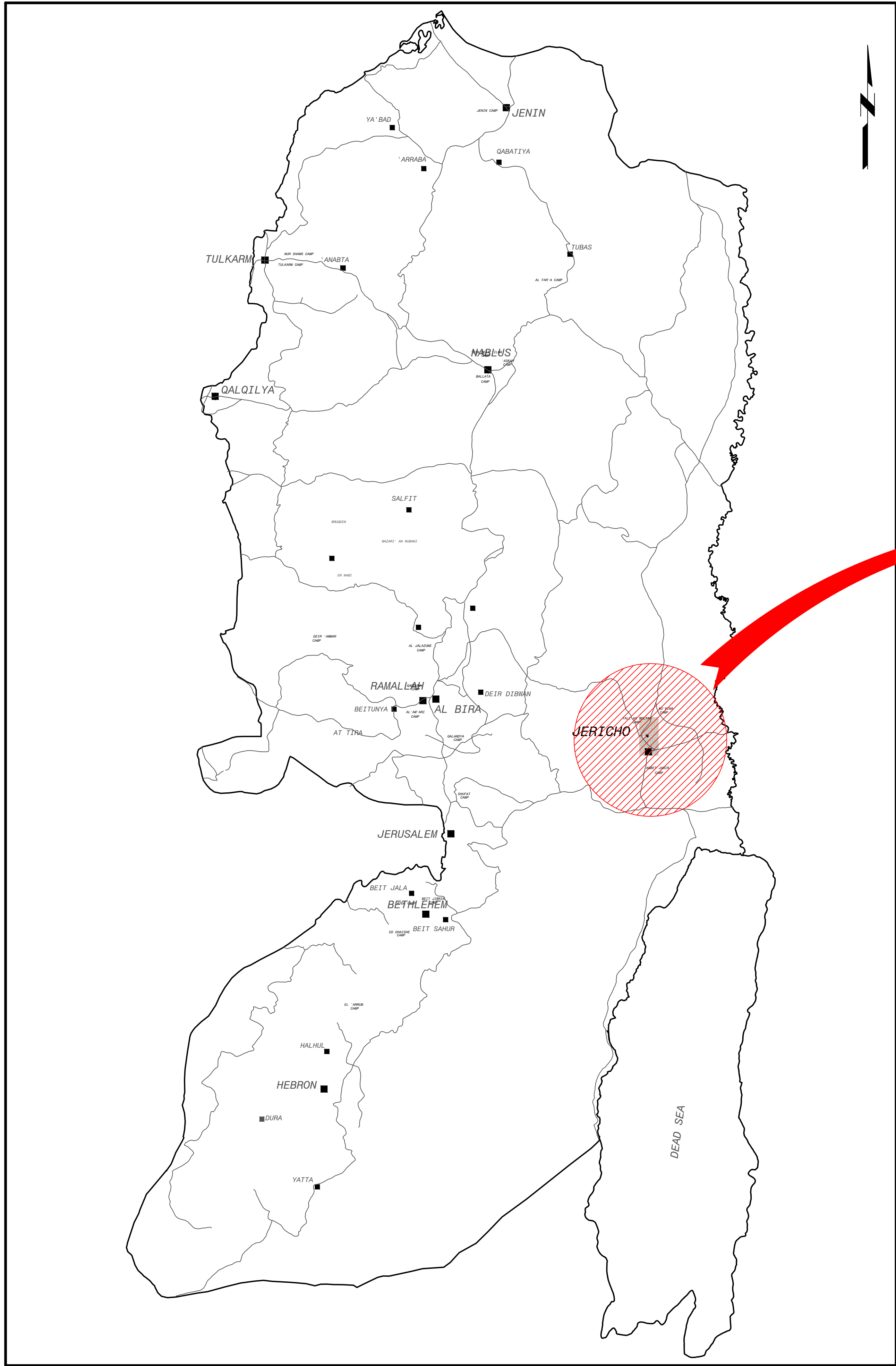
Contract No.:

Construction of Deep Well

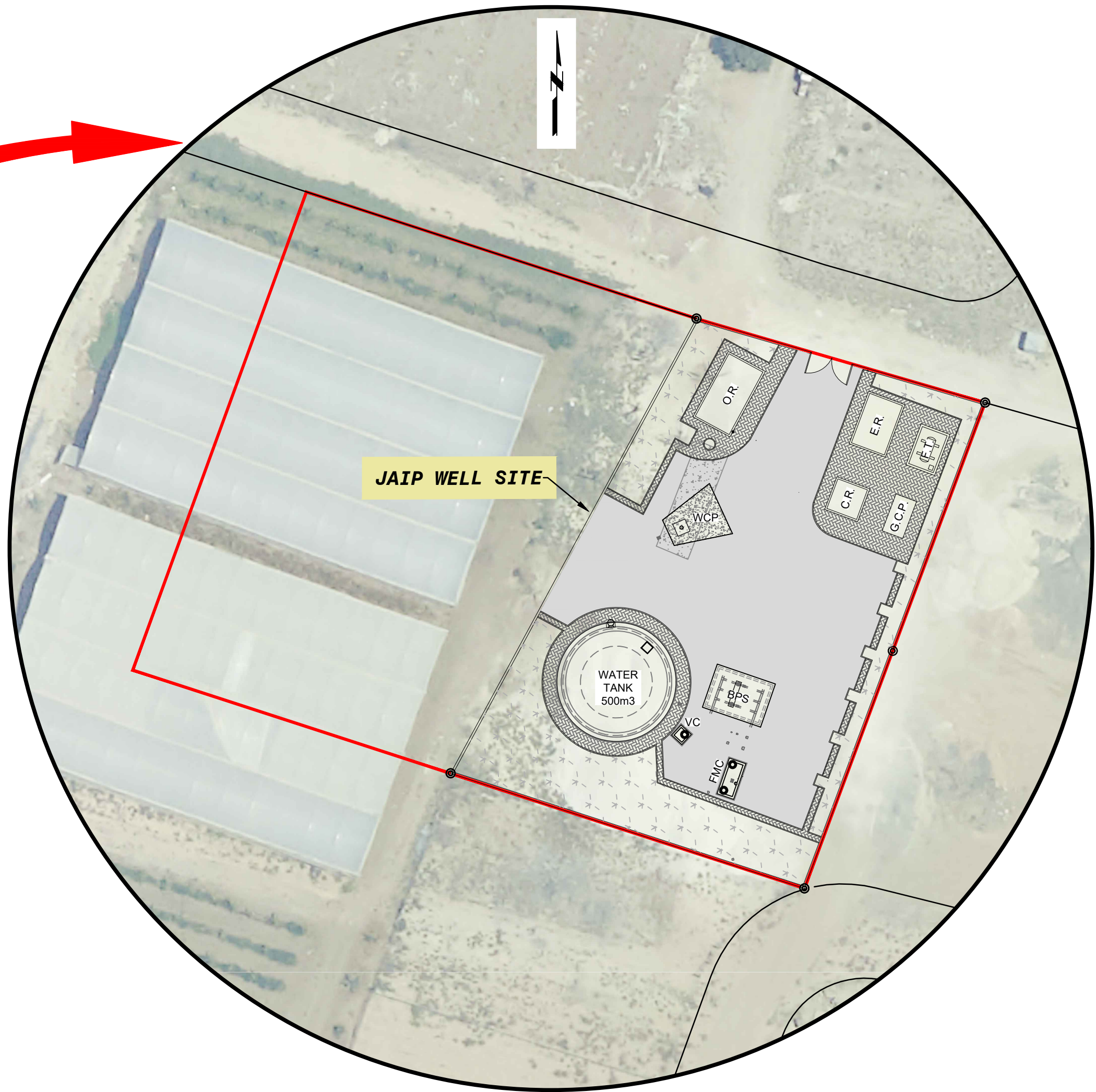
DRAWINGS

FINAL
2021-09-19

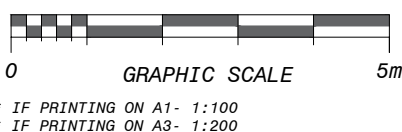




WEST BANK VICINITY MAP
N.T.S



SUB-REGIONAL LOCATION MAP
N.T.S



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center for engineering and planning

Center for Engineering and Planning

Ramallah, Palestine

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P.O. Box 301

Donor:

Owner:

Operator:

Drawn: [Basma Al Mur]

Checked: [Samiat Burnat]

Approved: [Osama Bazzour]

File Name: JAIP-WELL-LM.dwg

Date: 24-08-2021

Drawing No: JAIP-W-GD- 03

Scale: N.T.S

Size: A1

Sheet: 01

Contract No. :

Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

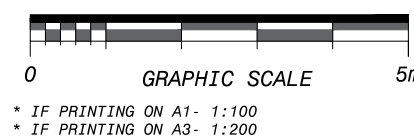
Detail Design
Construction of Deep Well and Transmission Pipeline for JAIP Well Site
Location Map

Rev.	Date	Description	Drawn	Checked	Approved
2	24.08.2021	Draft Detailed Design	BM	OB	BA
1	01.08.2021	Draft Detailed Design	BM	OB	BA

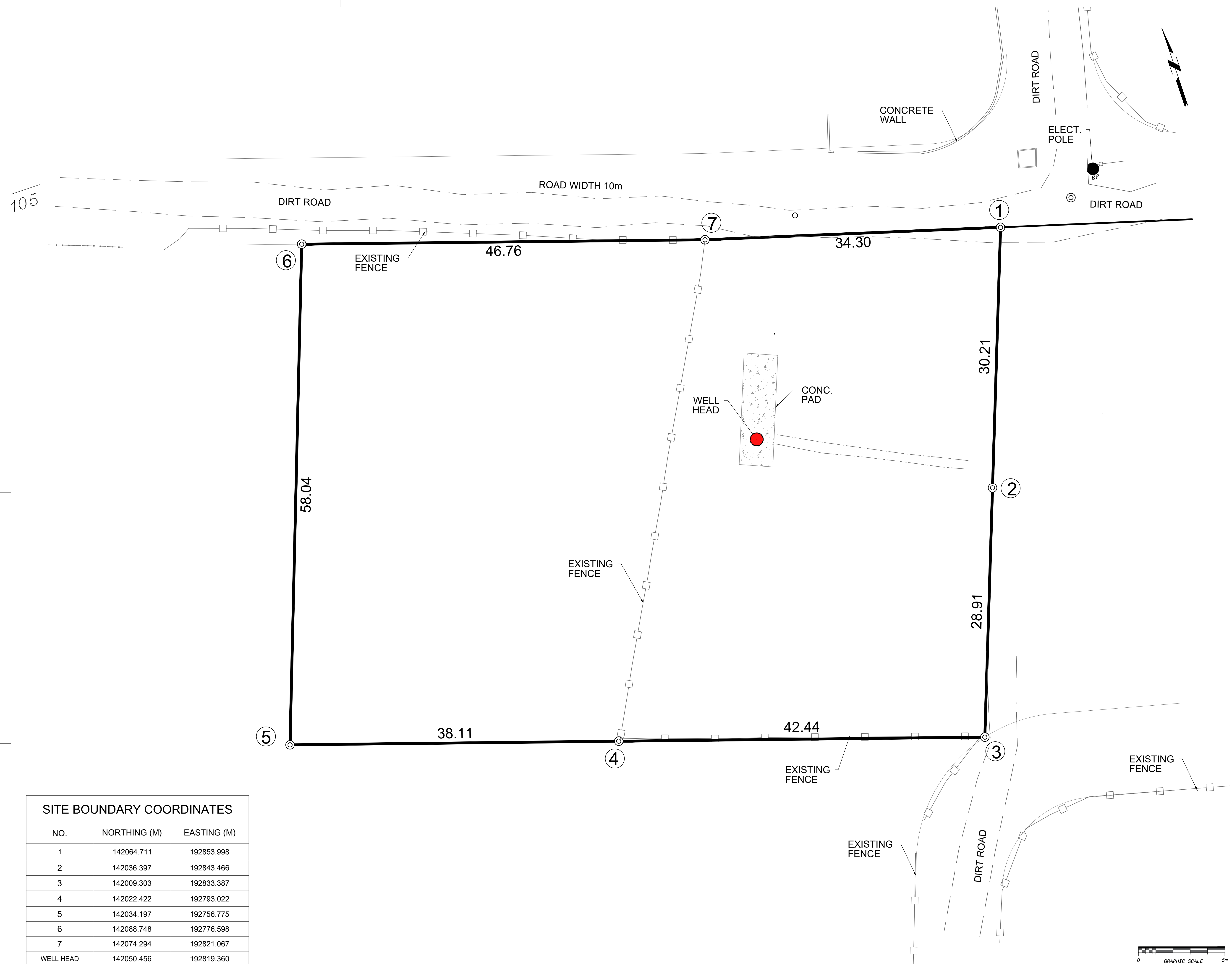
NOTES

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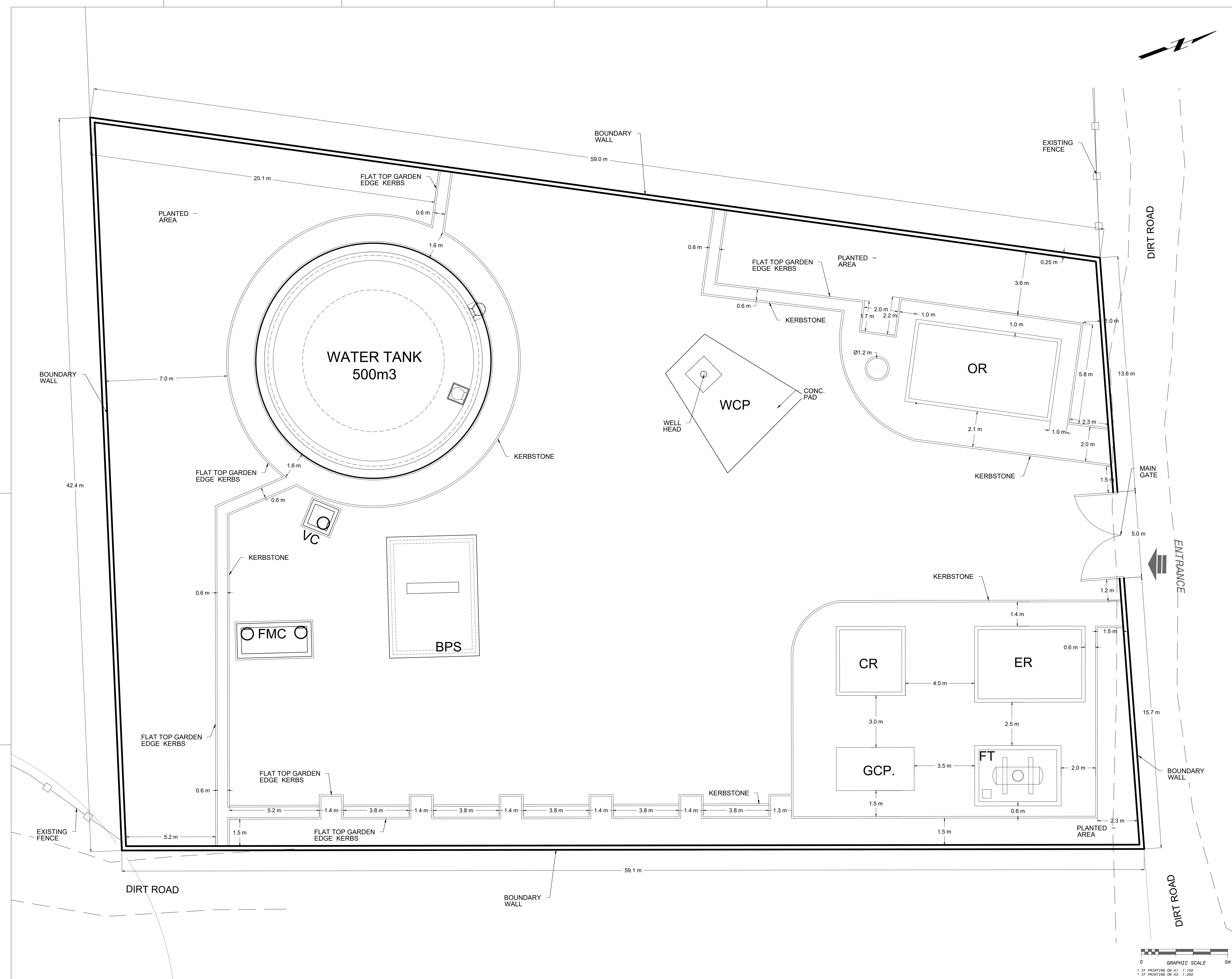


NO.	NORTHING (M)	EASTING (M)
1	142064.711	192853.998
2	142036.397	192843.466
3	142009.303	192833.387
4	142022.422	192793.022
5	142034.197	192756.775
6	142088.748	192776.598
7	142074.294	192821.067
WELL HEAD	142050.456	192819.360

0 GRAPHIC SCALE 50

* IF PRINTING ON A1- 1:100
* IF PRINTING ON A3- 1:200

[illegible]



Drawn: **Bahaa Al Mur**

Checked: **Samiel Burnat**

Described: **United Nations Development Programme**

Drawn: **Bassam Abu Zahra**

Checked: **Osama Bazzour**

Described: **Programme of Assistance to the Palestinian People**

Drawn: **JAIIP-WELL-SITE.dwg**

Checked: **JAIIP-WELL-SITE.dwg**

Described: **Jericho Municipality**

Scale: **1: 200**

Date: **19-09-2021**

Drawn No.: **007/105**

Size: **A1**

Rev.: **01**

Sheet No.: **007/105**

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Jericho Municipality

Jericho Municipality

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Programme of Assistance to the Palestinian People

منظمة الأمم المتحدة للتطوير والتنمية الاقتصادية

From the People of Japan

Ministry of Foreign Affairs

Ministry of Foreign Affairs

Contract No.:

Jericho Agro-Industrial Park and Deep Water Well Drilling

Support to Infrastructure Works for Phase II:

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIIP

Well Site - Civil

Site Plan

Rev.

Date

Description

Drawn

Checked

Approved

2

24.08.2021

Draft Detail Design

BM

OB

BA

1

01.08.2021

Draft Detail Design

BM

OB

BA

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1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

2. COORDINATES ARE SHOWN IN THE 1923 PALESTINIAN GRID SYSTEM.

3. CONTRACTOR SHALL COORDINATE WITH JERICHO MUNICIPALITY AND SITE ENGINEER BEFORE START OF WORKS.

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2. COORDINATES ARE SHOWN IN THE 1923 PALESTINIAN GRID SYSTEM.

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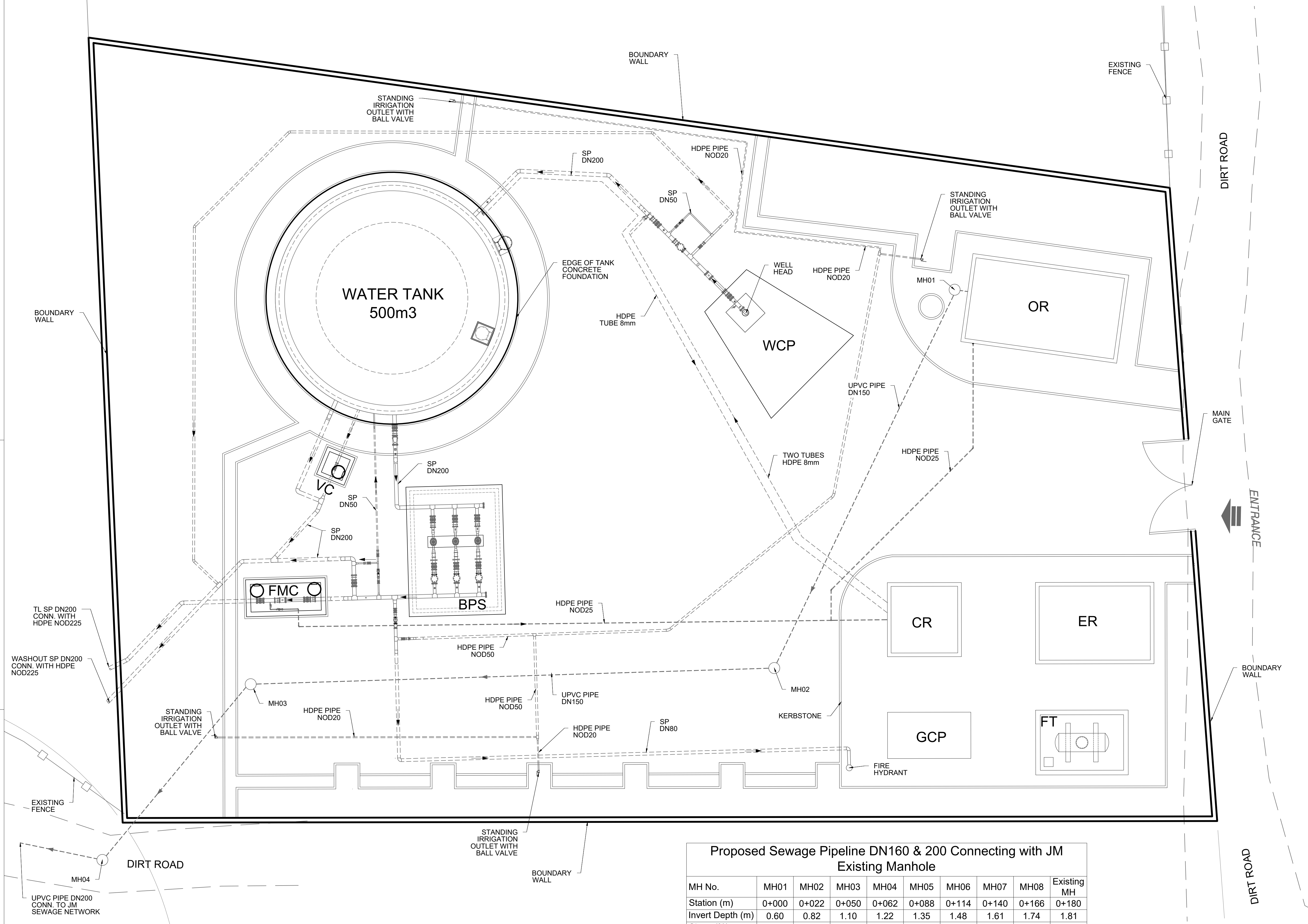
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5m

GRAPHIC SCALE

1: 100

1: 200



Proposed Sewage Pipeline DN160 & 200 Connecting with JM Existing Manhole									
MH No.	MH01	MH02	MH03	MH04	MH05	MH06	MH07	MH08	Existing MH
Station (m)	0+000	0+022	0+050	0+062	0+088	0+114	0+140	0+166	0+180
Invert Depth (m)	0.60	0.82	1.10	1.22	1.35	1.48	1.61	1.74	1.81
Slope (%)	-	1.00%	1.00%	1.00%	0.50%	0.50%	0.50%	0.50%	0.50%
Pipe DIA (mm)	160	160	160	160	200	200	200	200	200

Drawn: **Bahaa Al Mur**

Checked: **Osama Bazzour**

Approved: **Bassam Abu Zahra**

File Name: **JAIIP-WELL-SITE.dwg**

Date: **19-09-2021**

Drawing No.: **JAIIP-W-SITE-M-04**

Scale: **1:200**

Sheet No.: **008/105**

Rev: **01**

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Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP
Well Site - Mechanical
Site Piping Plan

Subject

Rev.

Date

Description

Drawn

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2

24.08.2021

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BM

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01.08.2021

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Project

Notes

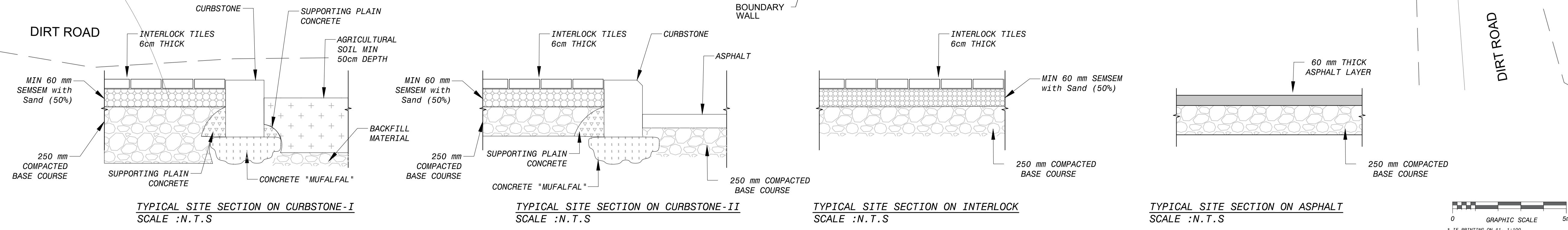
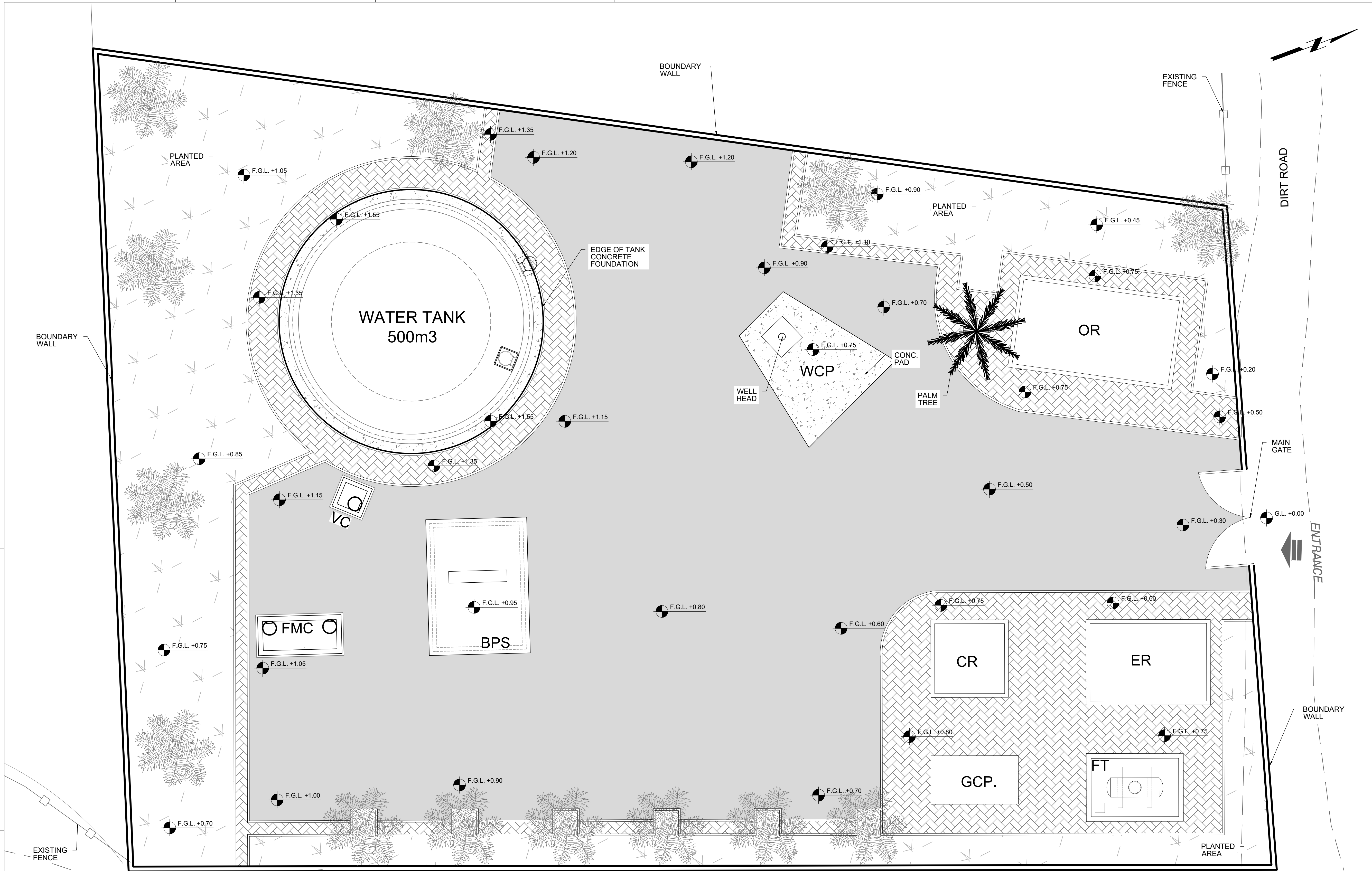
Notes

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3. CONTRACTOR SHALL COORDINATE WITH JERICHO MUNICIPALITY AND SITE ENGINEER BEFORE START OF WORKS.

4. MH: SEWAGE MANHOLE
JM: JERICHO MUNICIPALITY.



LEGENDS

ASPHALT SURFACE

INTERLOCK TILE

NATURAL GROUND (PLANTING AREA "SOIL")

CONCRETE SURFACE

EXISTING FENCE

BOUNDARY OF EXISTING DIRT ROAD

NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

2. FOR SITE DIMENSIONING OF KERBSTONE REFER TO JAIP-W-SITE-M-04

3. CONTRACTOR SHALL COORDINATE WITH JERICHO MUNICIPALITY AND SITE ENGINEER BEFORE START OF WORKS.

4. EXISTING GROUND ELEVATION AT MAIN GATE = +238.75m = +0.00

Rev.

Date

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2	24.08.2021	Draft Detail Design	BM	OB	BA
1	01.08.2021	Draft Detail Design	BM	OB	BA

Project

Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

Contract No.:

Detail Design

Subject

Construction of Deep Well and Transmission Pipeline for JAIP Well Site - Civil Pavement and Drainage Site Plan

Drawn: Bahaa Al Mur

Checked: Osama Bazzour

File Name: JAIP-WELL-SITE.dwg

Date: 19-09-2021

Scale: 1:100

Sheet No.: 009/105

Rev.: 01

Discussed: Samad Burnat

Approved: Bassam Abu Zahra

Project: JAIP-W-SITE-C-05

Drawing No.: 009/105

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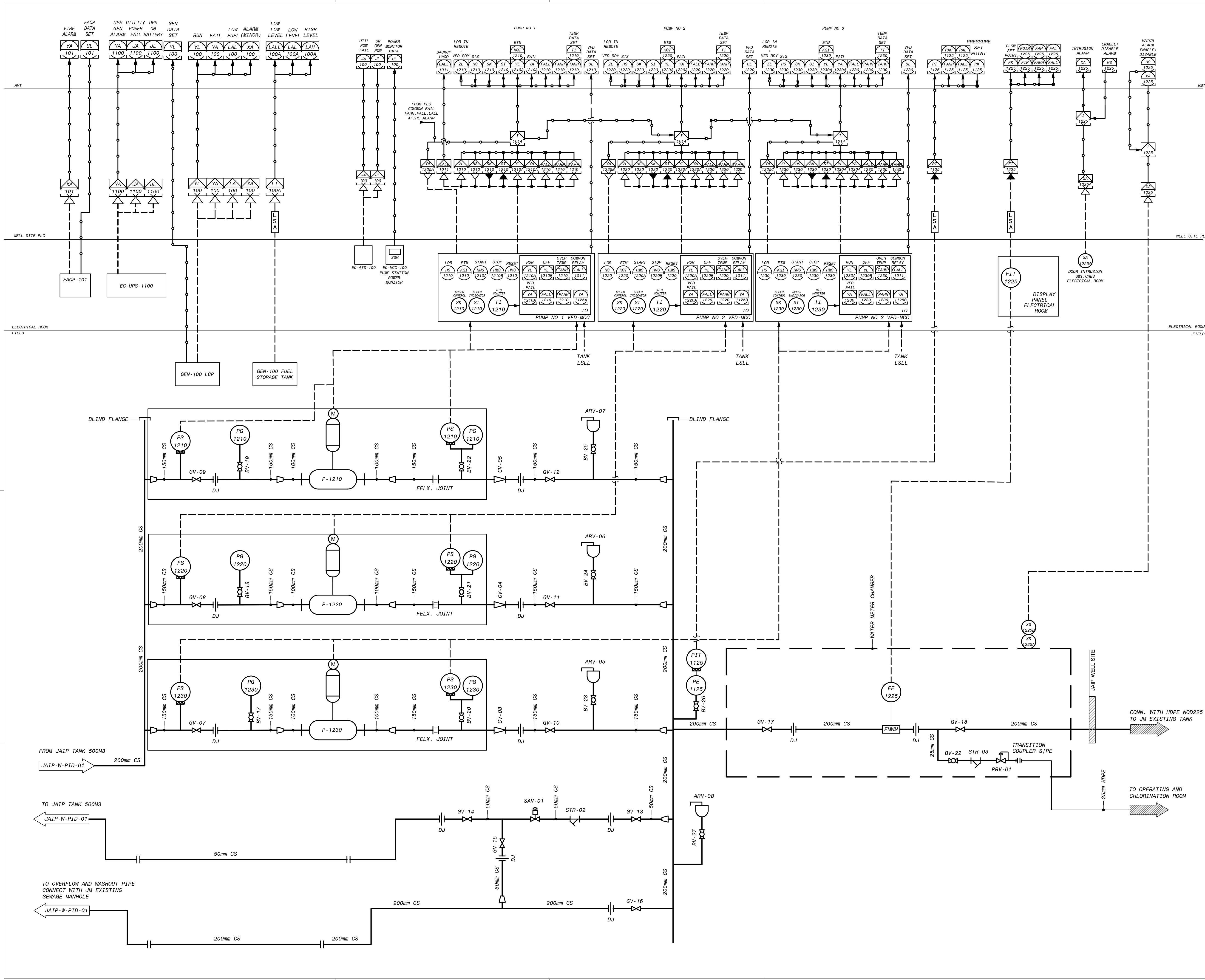
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GRAPHIC SCALE

5m

• IF PRINTING ON A1: 1:100

• IF PRINTING ON A3: 1:200



NOTES

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1	01.08.2021	Draft Detailed Design	BM	OB	BA

Project

Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

Contract No.:

Subject

Detail Design
Construction of Deep Well and Transmission Pipeline for JAIP
Well Site
Instrumentation P & ID - II

Drawn

Bahaa Al Mur

Checked

Samiel Burnat

Approved

Osama Bazzour

File Name

JAIIP-WELL-PID.dwg

Date

24-08-2021

Scale

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Size

A1

Drawing No.

JAIIP-W-PID-02

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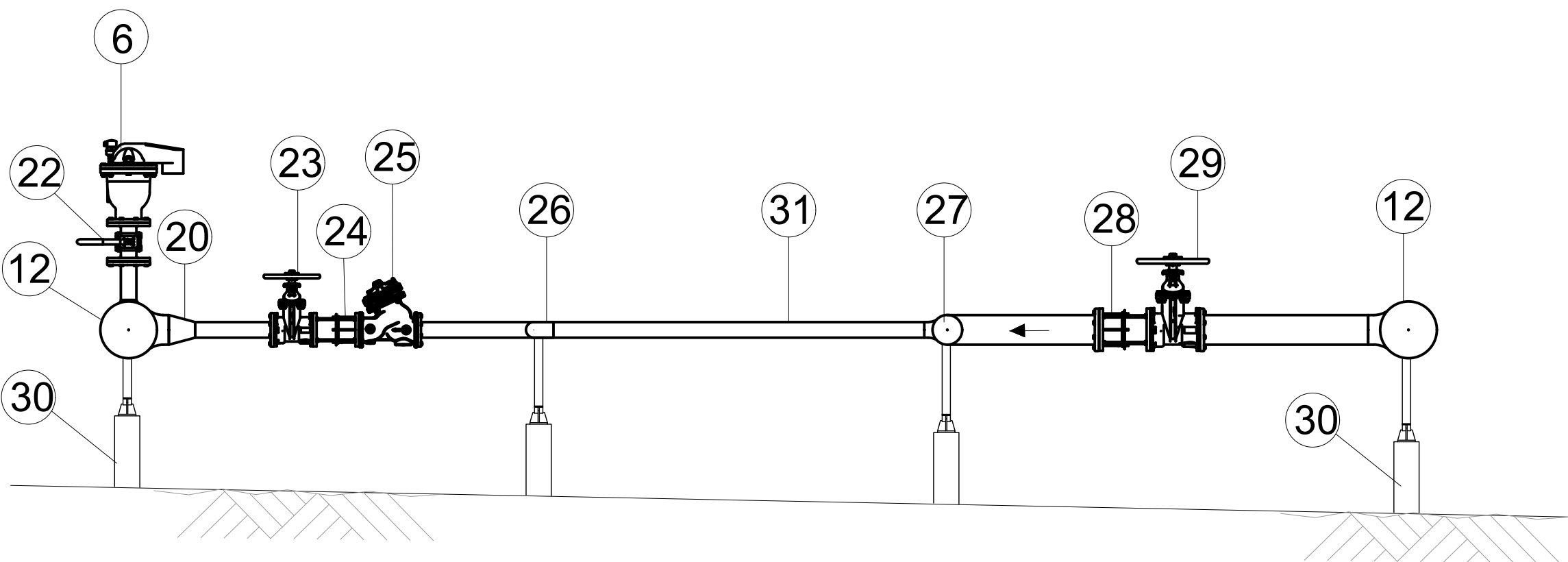
Implementing Agency

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Jericho Municipality

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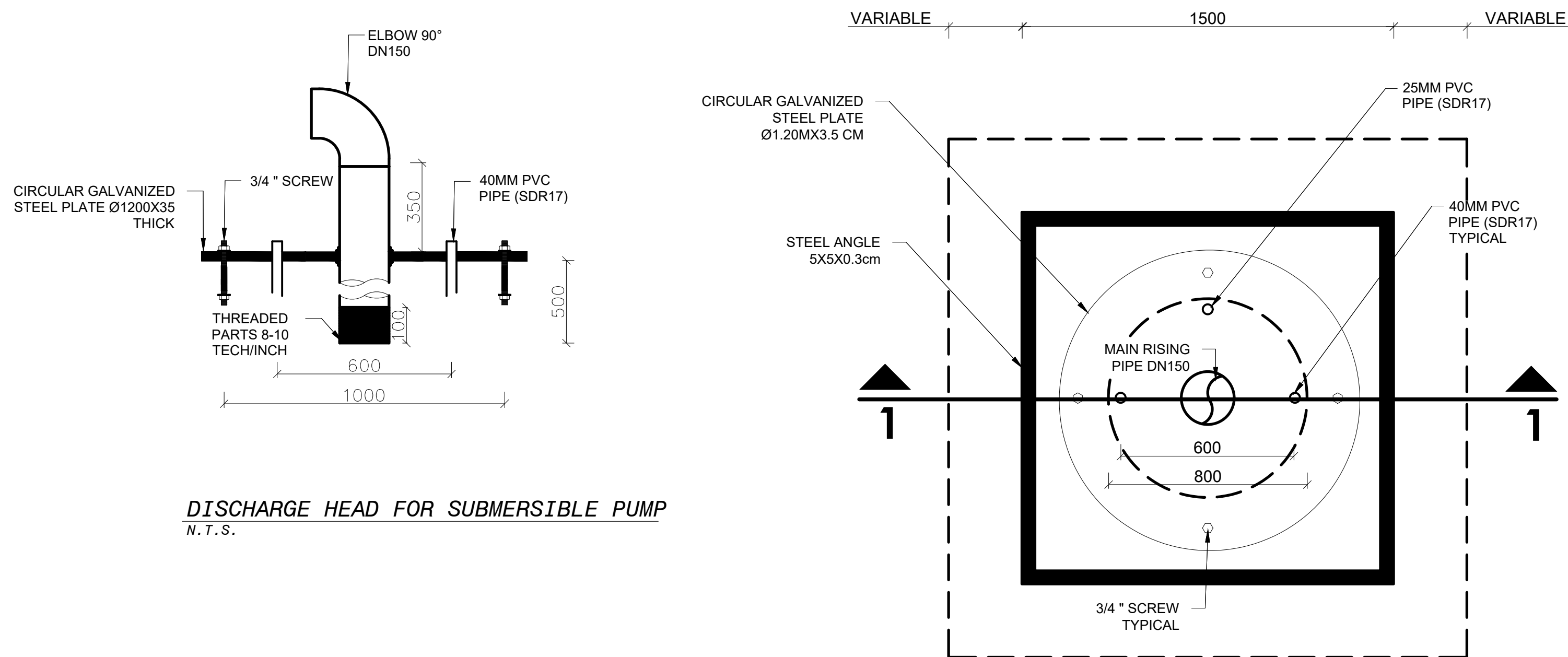
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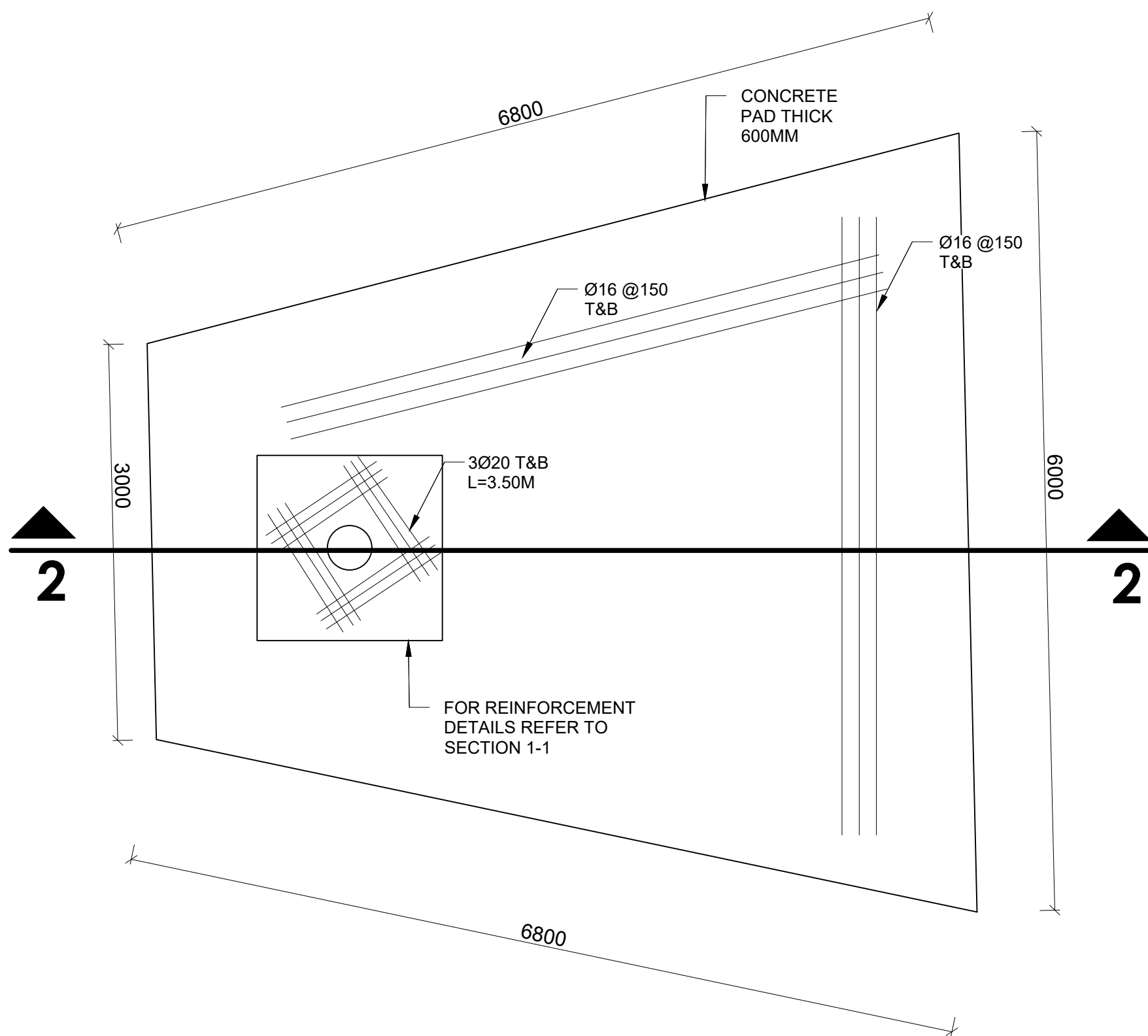
PUMP COLUMN
PIPE DN150

Rev.	Date	Description	Drawn	Checked	Approved	NOTES	NOTES
						1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.	
						2. ALL FITTINGS AND VALVE SHALL BE PN16 AS MINIMUM.	
						NO DESCRIPTION	23 GATE VALVE DN80
						1 CS ELBOW 90° DN150 (DISCHARGE)	24 DISMANTLING JOINT DN60
						2 WELDED CS REDUCER 200/100	43 CHECK VALVE DN150
						3 FLANGED JOINT	44 BLIND FLANGE
						4 PRESSURE GAUGE	45 REDUCED TEE 100/50
						5 BALL TAP VALVE DN25	25 PRESSURE RELIEF VALVE DN50
						6 COMBINATION AIR RELEASE VALVE DN50	26 CS ELBOW 90° DN200
						7 GATE VALVE DN200	27 REDUCED TEE 100/50
						8 DISMANTLING JOINT DN200	28 DISMANTLING JOINT DN100
						9 CS PIPE DN200	29 GATE VALVE DN100
						10 ENHVN DN200	30 JACK SUPPORT
						11 ELECT FLOW SWITCH	31 STEEL PIPE DN50
						12 REDUCED TEE DN200/100	32 STEEL ELBOW 45° DN60
							33 SS WALL PIPE PIECE DN20
							34 PIPE SUPPORT WITH WALL
							35 STRAINER DN200
							36 WELDED ELBOW 90° DN200
							37 STEEL PIPE DN100
							38 CS TEE DN200
							39 CS WELDED 45° DN200
							40 CS TEE DN50
							41 STEEL PIPE DN150 (OR 10 FT PUMP)
							42 FLEXIBLE JOINT DN150 (RESTRAINED)
							43 CHECK VALVE DN150
							44 BLIND FLANGE
							45 REDUCED TEE 100/50
							46 STRAINER DN25
							47 BALL VALVE DN25
							48 STRAINER DN25
							49 1/2" P V DN25
							50 CHECK VALVE DN25
							51 TRANS COUPLER (SHORPE) DN25
							52 HOPE PIPE DN25
							53 HOPE ELBOW 90° DN25
							54 BARGE ANTICIPATING VALVE DN50
							55 CS TEE DN200
							56 CS WELDED 45° DN200
							57 CS TEE DN50
							58 TEE DN50
							59 CHLORINE INJECTOR & ISOLATING VALVE (DIAPHR)

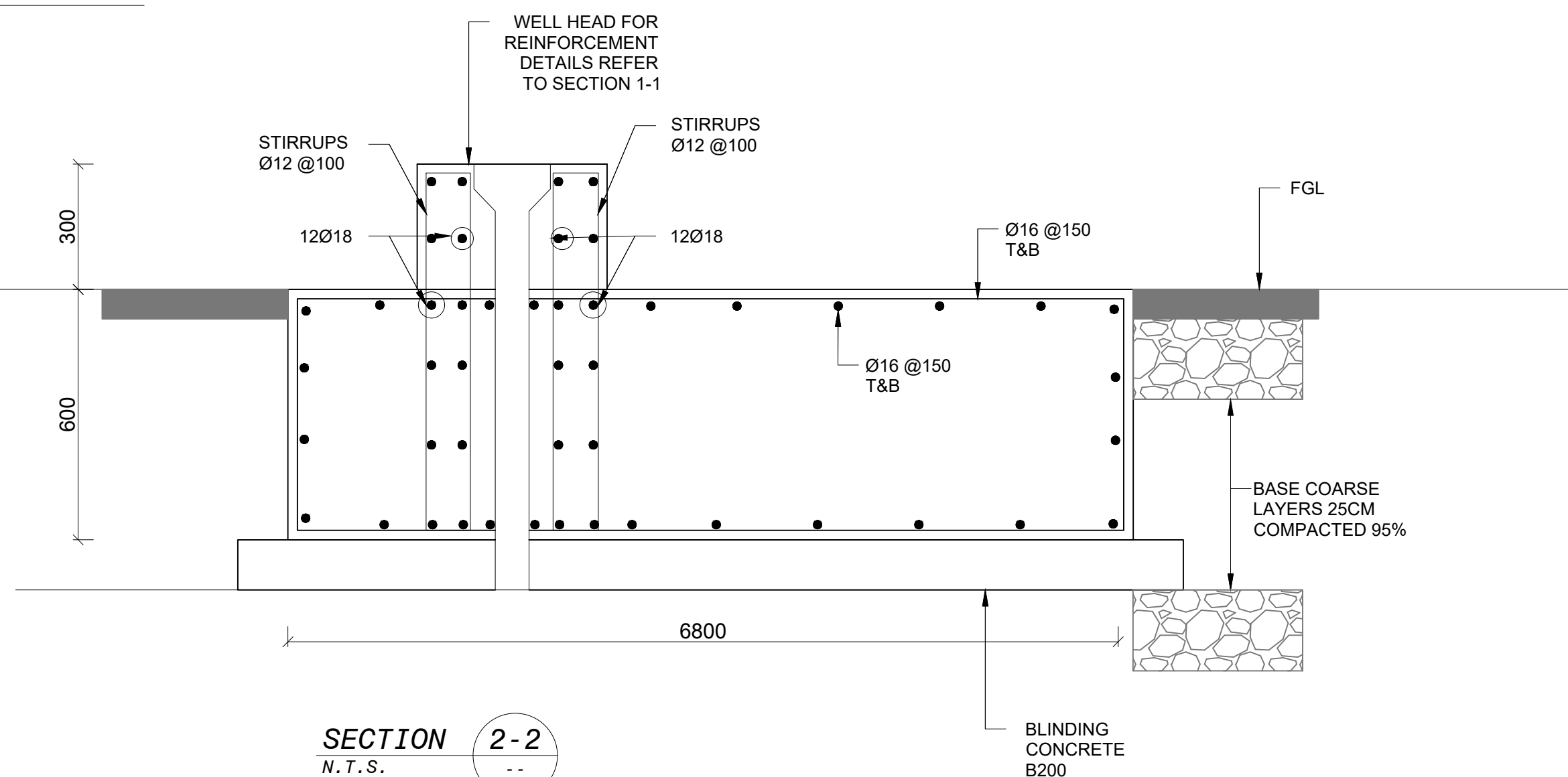


DISCHARGE HEAD FOR SUBMERSIBLE PUMP
N.T.S.

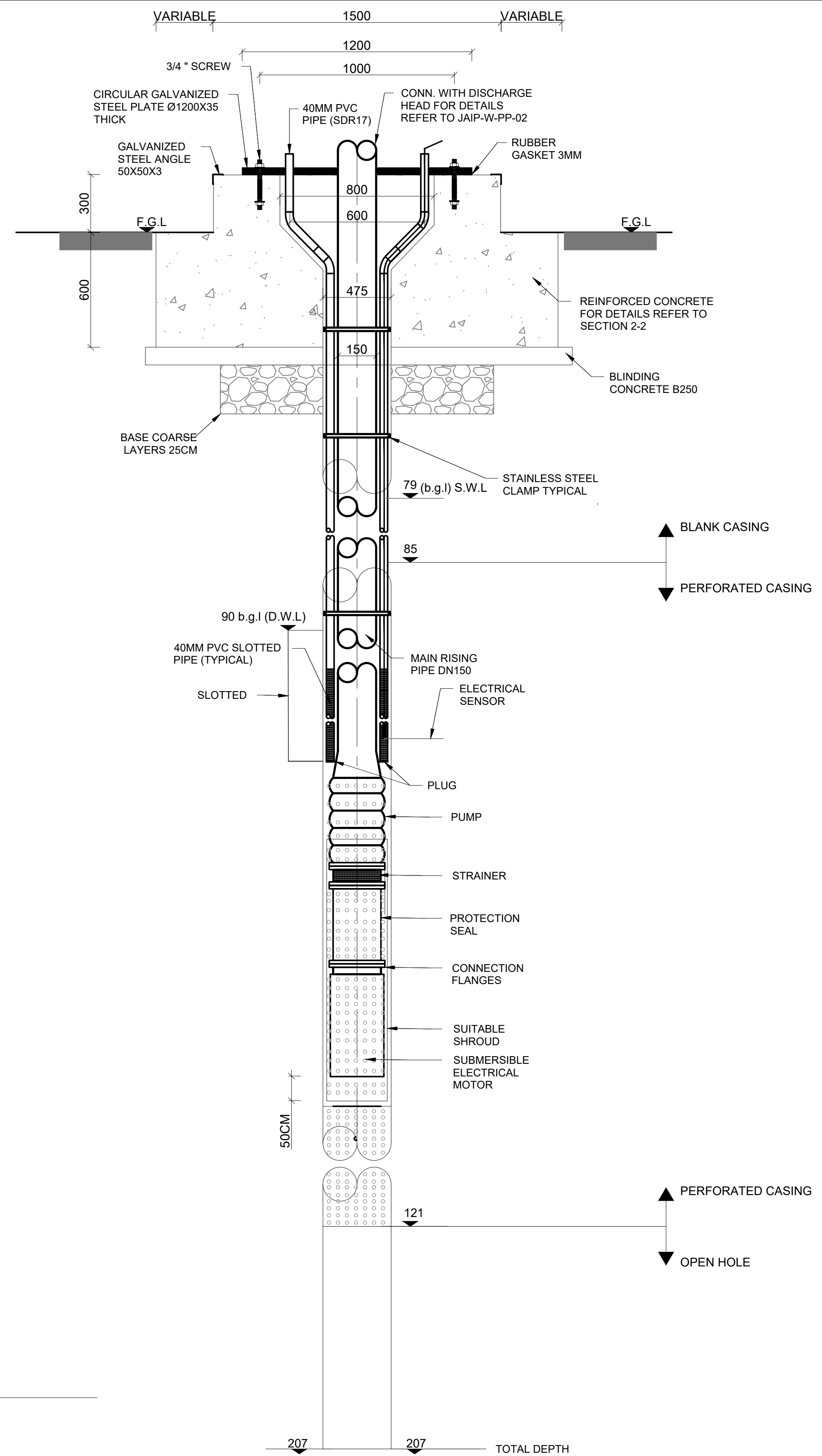
WELL PUMP SETTING PLAN
N.T.S.



WELL CONCRETE PAD FOUNDATION
N.T.S.



SECTION 2-2
N.T.S.



SECTION 1-1
N.T.S.

NOTES

- ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
- ALTERNATIVES TO ALL PROPRIETARY EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL.
- ALL PROPRIETARY EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- THE CONCRETE COVER SHALL BE ACCORDING TO THE ACI CODE AND SPECIFICATION.
- ALL METAL WORKS SHALL BE GALVANIZED STEEL.

STATIC WATER LEVEL
DYNAMIC WATER LEVEL
b.g.l.: BELOW GROUND LEVEL
F.G.L.: FINISH GROUND LEVEL

Rev.	Date	Description	Drawn	Checked	Approved
1	24.08.2021	Draft Detailed Design	BM	OB	BA
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Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

Contract No.:

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP
Well Site - Mechanical
Well Section Details and Reinforcement

Drawn: [Signature] Baha Al Mur
 Checked: [Signature] Osama Bazzour
 File Name: JAIIP-WELL-BPS.dwg
 Date: 20.09.2021
 Scale: N.T.S.
 Drawing No: JAIIP-W-PP-M-05
 Sheet: 016/105

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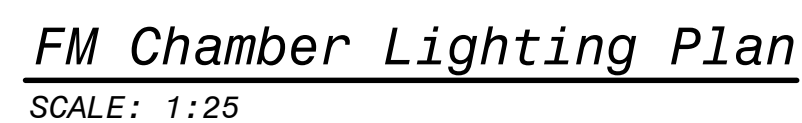
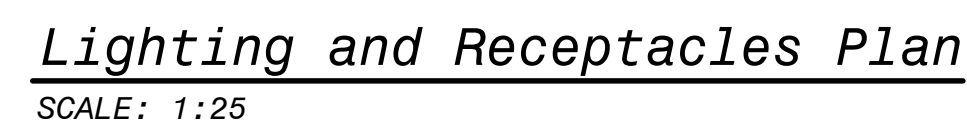
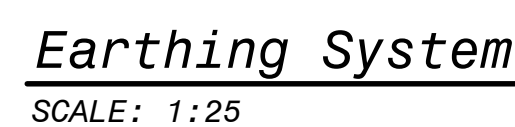
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 Operator: [Logo]
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Checked	A. Jamal	Approved	A. Jamal
Oman Bazzour		Bassam Abu Zahra	
File Name			
JAIP-WELL-BPSE.dwg			
Date	2010-04-20	Scale	A1
Drawing No.	1: 25	Sheet	1 of 1
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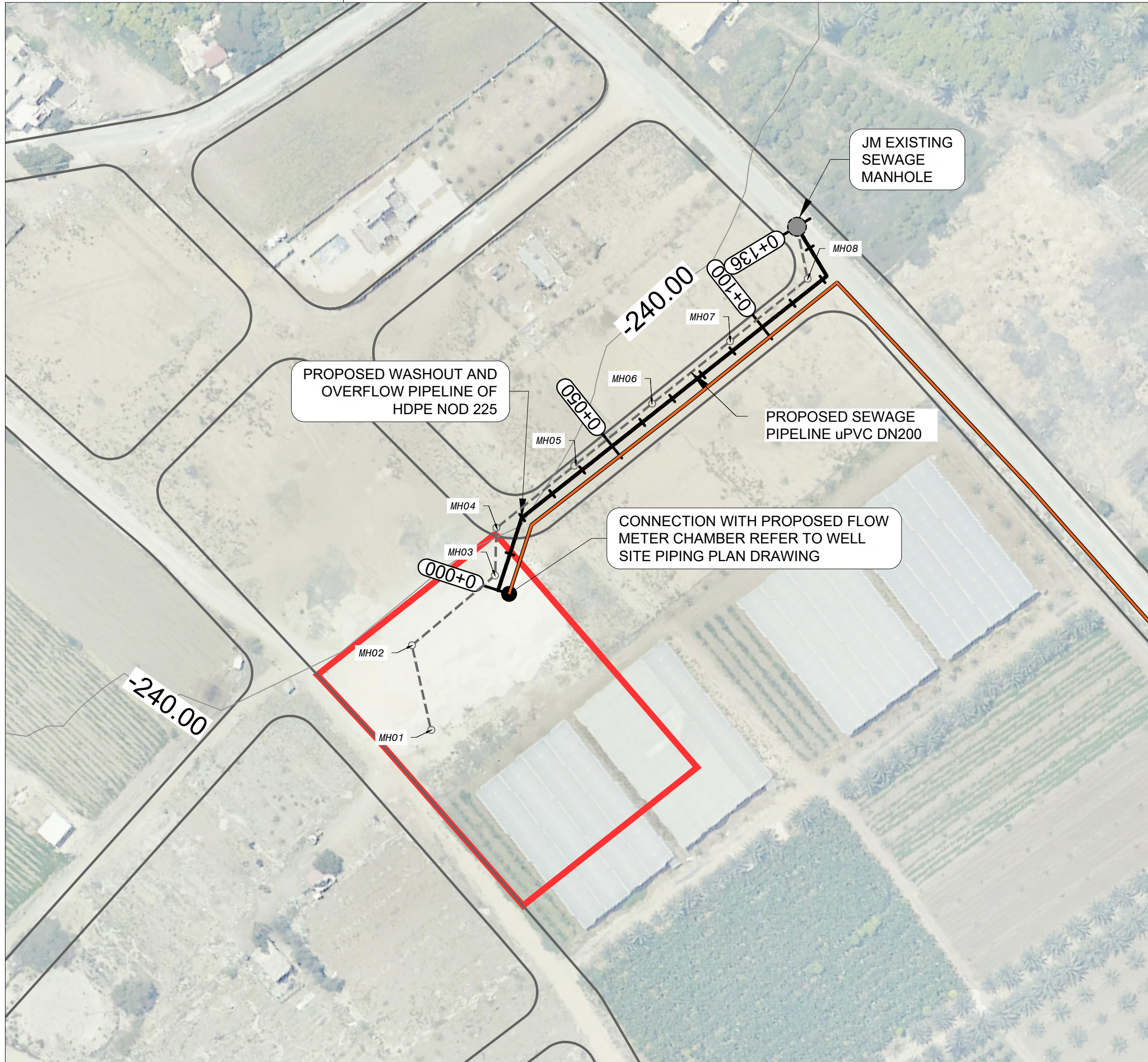
Rev.	Date	Description	Drawn	Checked	Approved
2	24.08.2021	Draft Detailed Design	AJ	OB	BA
1	01.08.2021	Draft Detailed Design	AJ	OB	BA
Project					
Support to Infrastructure Works for Phase II: Jercho Agro-Industrial Park and Deep Water Well Drilling					
Contract No.:					
Detail Design					
Subject					
Construction of Deep Well and Transmission Pipeline for JAIP Well Site - Electrical BPS & FMC Earthing, Lighting and Receptacles Plan					

NOTES

- NOTES**
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
 2. COORDINATES ARE SHOWN IN THE 1923 PALESTINIAN GRID SYSTEM.
 3. CONTRACTOR SHALL COORDINATE WITH JERICO MUNICIPALITY AND SITE ENGINEER BEFORE START OF WORKS.
 4. MH: SEWAGE MANHOLE.
JM: JERICO MUNICIPALITY.

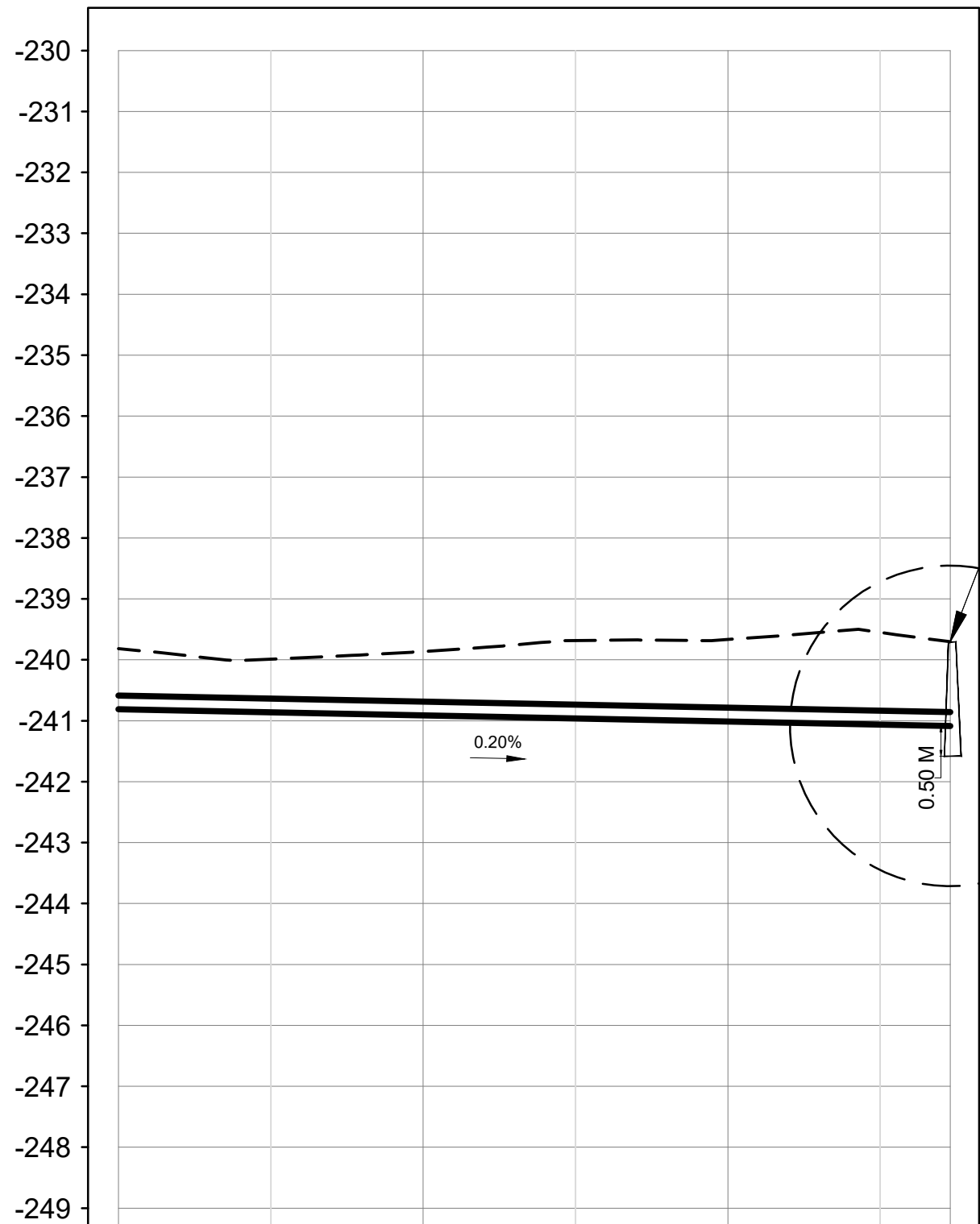
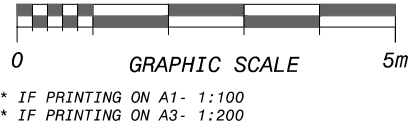
NOTES

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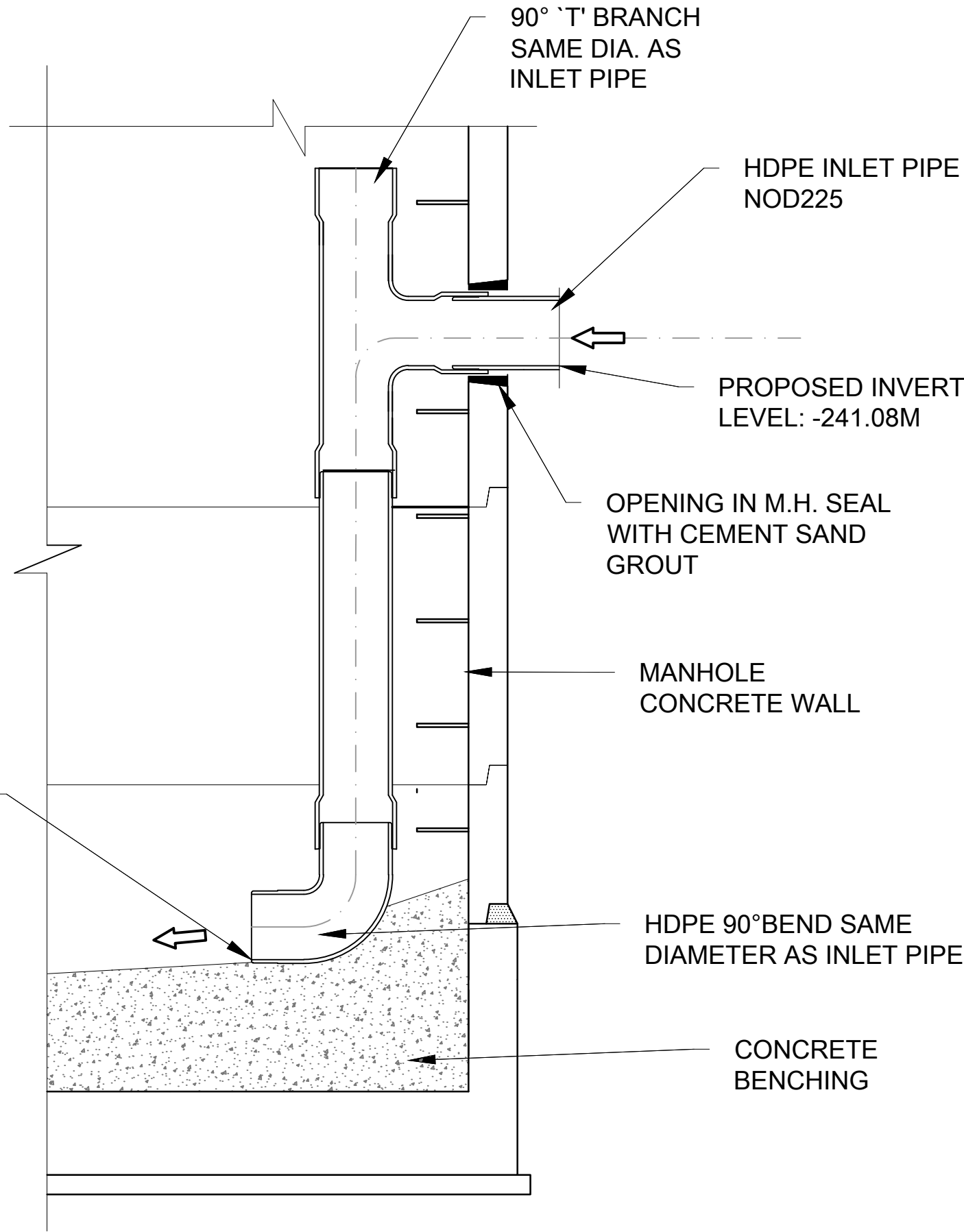


Proposed Sewage Pipeline DN160 & 200 Connecting with JM Existing Manhole

MH No.	MH01	MH02	MH03	MH04	MH05	MH06	MH07	MH08	Existing MH
Station (m)	0+000	0+022	0+050	0+062	0+088	0+114	0+140	0+166	0+180
Invert Depth (m)	0.60	0.82	1.10	1.22	1.35	1.48	1.61	1.74	1.81
Slope (%)	-	1.00%	1.00%	1.00%	0.50%	0.50%	0.50%	0.50%	0.50%
Pipe DIA (mm)	160	160	160	160	200	200	200	200	200



STATION	0+000	0+050	0+100	0+136
GR. LEVEL	-240.59 -239.82	-240.64 -239.99	-240.69 -239.68	-240.74 -239.67
IN. LEVEL	-240.59	-240.64	-240.69	-240.74
MATERIAL PIPE DIA.	HDPE PIPE, NOD 225 MM			
COVER(M)	0.99	1.05	1.35	1.38
FITTINGS, VALVES				



CONNECTION DETAIL WITH EXISTING SEWAGE MANHOLE
N.T.S.

Drawn: **Bahaa Al Mur**
Checked: **Samiel Burnat**
Date: **24-08-2021**
Drawing No: **JAIW-W-PP-C-08**

Approved: **Bassam Abu Zahra**
Checked: **Osama Bazzour**
Date: **24-08-2021**
Drawing No: **JAIW-W-PP-C-08**

Scale: **1:100**
Sheet: **A1**

Scale: **1:100**
Sheet: **019/105**

Project: **Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling**

Contract No.: **.....**

Subject: **Construction of Deep Well and Transmission Pipeline for JAIP Well Site - Civil**

Detail Design

Donor: **From the People of Japan**

Operator: **Jericho Municipality**

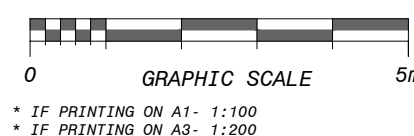
Implementing Agency: **United Nations Development Programme**

Notes:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.

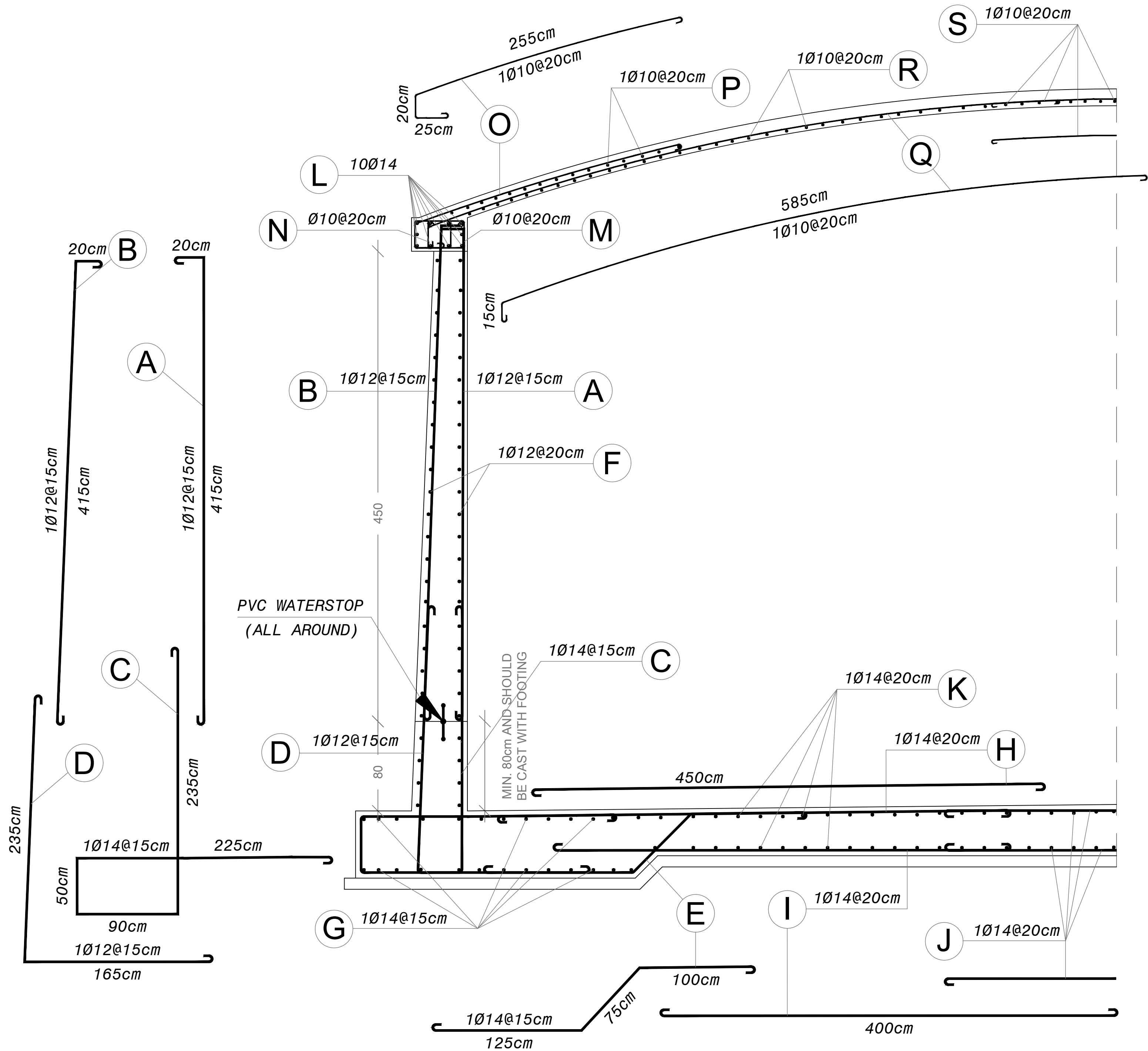
2. EXACT LOCATION OF CHAMBERS SHOULD BE APPROVED BY THE SITE ENGINEER.

3. CONTRACTOR SHALL COORDINATE WITH JERICHO MUNICIPALITY AND SITE ENGINEER.



* IF PRINTING ON A1- 1:100
* IF PRINTING ON A3- 1:200

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- NOTES
- THE INTERNAL FACES (WALL, FOOTING, RING BEAM AND ROOF SLAB) SHALL RECEIVE PAINT AT MINIMUM 2-COATS OF EPOXY PAINTING FOR WETTED SURFACES (WATER).
 - THE EXTERNAL FACES (WALLS, ROOF SLAB AND RING BEAM) SHALL BR PAINTED AT ONE COAT OF REPELLENT MATERIAL TO FILL VOIDS AND MINIMUM TWO COATS OF DEKGUARD FC WITH 200 MICRONS TOTAL THICK.
 - SHEETS WIDTH 300MM AND THICKNESS 18MM FOR JOINT BETWEEN WALL & RING BEAMS.
 - INTERNAL AND EXTERNAL WALLS AND RING BEAMS OF WATER TANK SHALL BE FAIR FACE FINISH USING THE METALLIC OR SMOOTH PLYWOOD SHUTTERING FORMS.
 - THE DESIGN OF TANK FOUNDATION WAS BASED ON THE ASSUMPTION THAT THE BEARING CAPACITY OF THE SOIL IS 250KN/cm².
 - THE CONTRACTOR SHALL CARRY OUT SOIL TEST AFTER FINISHING EXCAVATION WORKS AND BEFORE ANY CONCRETE WORK AND IN CASE THE CAPACITY IS LESS THAN THE DESIGN VALUE, THEN THE DESIGN OF FOOTING SHALL BE MODIFIED ACCORDINGLY.

BAR SIZE	BENDS		HOOKS	
	GRADE 250 (TYPE & GRADE R)	GRADE 420 (TYPE AND GRADE T)	GRADE 250 (TYPE & GRADE R)	GRADE 420 (TYPE AND GRADE T)
D	R	R	R	R
6	12	18	12	18
8	16	24	16	24
10	20	30	20	30
12	24	36	24	36
14	28	42	28	42
16	32	48	32	48
18	36	54	36	54
20	40	60	40	60
22	44	66	44	66
25	50	75	50	75

BAR CUTTING LIST											
Group	Type	Ø mm	No. of Bars	Length (m)	Shape	Total Length (m)			Ø10	Ø12	Ø14
						Ø10	Ø12	Ø14			
DOME + WALLS + FLOOR	A	12	244	4.35			1062				
	B	12	258	4.35			1123				
	C	14	258	6.00				1548			
	D	12	258	4.00			1032				
	E	14	258	3.00				774			
	F	12	50	41.0	Ring		2050				
	G	14	Varies		Ring			1368			
	H	14	258	4.50				1161			
	I	14	258	4.00				1032			
	J	14	64	3.30				212			
	K	14	Varies		Ring			532			
	L	14	10	42.0	Ring			420			
	M	10	190	1.50		285					
	N	10	190	1.10		209					
	O	10	190	3.00		570					
	P	10	Varies		Ring	407					
	Q	10	190	6.00		1140					
	R	10	Varies		Ring	625					
	S	10	32	3.30		106					
	T	12	8	1.45			12				
	U	12	8	2.00			16				
	V	10	20	0.45		9					
	W	14	8	1.00				8			
	Total Length (m)					3351	5295	7055			
	Weight (kg)					0.617	0.890	1.210			
	Total Weight (kg)					2068	4713	8537			
	Total Weight (ton)					15.3 ton					

Donor:
Ministry of Planning
Ramallah, Palestine
P.O. Box 301

Operator:
Jericho Municipality

Owner:
Ministry of Planning
Jericho Municipality

Implementing Agency:
United Nations Development Programme
Programme of Assistance to the Palestinian People
Jericho Municipality

Donor:
Ministry of Planning
Jericho Municipality

Donor:
Ministry of Planning
Jericho Municipality

Operator:
Jericho Municipality

Owner:
Ministry of Planning
Jericho Municipality

Donor:
Ministry of Planning
Jericho Municipality

Operator:
Jericho Municipality

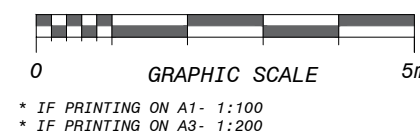
Owner:
Ministry of Planning
Jericho Municipality

Implementing Agency:
United Nations Development Programme
Programme of Assistance to the Palestinian People
Jericho Municipality

Donor:
Ministry of Planning
Jericho Municipality

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 - IF THERE IS ANY DISCREPANCY IN DRAWINGS THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
 - DESIGN CODE ACI 318M-14.
 - THE OUTSIDE OF REINFORCED CONC. STRUCTURE (UNDER GROUND) SHALL PAINT 2-COATS OF HOT BITUMEN OR AS SPECIFIED.
 - FOR ANY CONCRETE CONTACT WITH SOIL SHALL BE LAID POLYTHENE SHEET 500 MICRON.

- NOTES
- STEEL COVERS:
 - FOR FOUNDATIONS (CAST AGAINST SOIL) =7.5 CM
 - (FOR PROTECTED CONCRETE) =5.0 CM
 - FOR COLUMNS =4.0 CM
 - FOR SLABS =2.5 CM
 - FOR BEAMS =4.0 CM
 - COMPRESSIVE STRENGTH OF CONCRETE USED FOR FOUND., WALLS, RING BEAM & ROOF SLAB (DOME) IS (B400).
 - COMPRESSIVE STRENGTH OF CONCRETE USED FOR PLAIN CONCRETE & OTHER LINKS IS (B200).
 - REINFORCEMENT STEEL USED IS HIGH TENSION STEEL OF YIELD STRENGTH (G420) Y=4200 KG/CM².
 - MINIMUM LAP FOR STEEL BAR = 60 CM OR 60 x DIAMETER OF BAR WHICH IS GREATER.



BENDS		HOOKS	
			
BAR SIZE	GRADE 250 (TYPE & GRADE R)	GRADE 420 (TYPE AND GRADE T)	
D	R	R	
6	12	18	
8	16	24	
10	20	30	
12	24	36	
14	28	42	
16	32	48	
18	36	54	
20	40	60	
22	44	66	
25	50	75	

14. THE INTERNAL FACES (WALL, FOOTING, RING BEAM AND ROOF SLAB) SHALL RECEIVE PAINT AT MINIMUM 2-COATS OF EPOXY PAINTING FOR WETTED SURFACES (WATER).
15. THE EXTERNAL FACES (WALLS, ROOF SLAB AND RING BEAM) SHALL BR PAINTED AT ONE COAT OF REPELLENT MATERIAL TO FILL VOIDS AND MINIMUM TWO COATS OF DEKGUARD FC WITH 200 MICRONS TOTAL THICK.
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17. INTERNAL AND EXTERNAL WALLS AND RING BEAMS OF WATER TANK SHALL BE FAIR FACE FINISH USING THE METALLIC OR SMOOTH PLYWOOD SHUTTERING FORMS.
18. THE DESIGN OF TANK FOUNDATION WAS BASED ON THE ASSUMPTION THAT THE BEARING CAPACITY OF THE SOIL IS 250KN/cm2.
19. THE CONTRACTOR SHALL CARRY OUT SOIL TEST AFTER FINISHING EXCAVATION WORKS AND BEFORE ANY CONCRETE WORK AND IN CASE THE CAPACITY IS LESS THAN THE DESIGN VALUE, THEN THE DESIGN OF FOOTING SHALL BE MODIFIED ACCORDINGLY.

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6. FOR ANY CONCRETE CONTACT WITH SOIL SHALL BE LAID POLYTHENE SHEET 500 MICRON.

Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

Contract No.

Detail Design

Subject

Construction of Deep Well and Transmission Pipeline for JAIP Well Site - Civil Tank Section Reinforcement Details - I

Tank Section Reinforcement Details - I

Drawn:	Bahaia Al Mur		
Checked:	Samed Bunat		
Approved:	Bassam Abu Zahra		
Contract:	Oasma Bazzour		
File Name	JAIP-W-TANK-C3.dwg		
Date:	24-08-2021	Scale:	A1
Drawing No:	01	Sheet:	1-25
Project No:	JAIP-W-TANK-C-03		
Implementing Agency:	United Nations Development Programme Programme of Assistance to the Palestinian People وفاق الأمم المتحدة لبرنامج مساعدة الشعب الفلسطيني		
Operator:	   بلدية أريحا Jericho Municipality		
Owner:	 سلطة المياه الفلسطينية Palestinian Water Authority		
Donor:	 من الشعب الياباني From the People of Japan		

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10Ø14@15cm

PLAIN CONCRETE B200
OF 10 cm THICKNESS

0.10

0.60

0.70

DETAIL (S2)

Technical drawing of a reinforced concrete slab cross-section. The drawing shows a slab with a total thickness of 0.40m, consisting of a 0.10m thick plain concrete base (B200) and a 0.30m thick reinforced concrete top layer. The top layer contains 10 reinforcement bars (10Ø14@20cm) arranged in two rows of five. The bars are shown in cross-section as circles. The drawing includes dimension lines and labels for the reinforcement and concrete layers.

Labels and dimensions:

- Reinforcement: 10Ø14@20cm
- Concrete layers: 0.10 (plain concrete B200), 0.40 (total thickness), 0.50 (dimension line for the top layer)
- Concrete type: PLAIN CONCRETE B200
- Thickness: OF 10 cm THICKNESS

DETAIL (S3)

0.30

0.50

4Ø14

2Ø14

4Ø14

STIRRUPS 2Ø10@20cm

DETAIL (S1)

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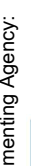
Rev.	Date	Description	Drawn	Checked	Approved
2	24.08.2021	Draft Detailed Design	BM	OB	BA
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Contract No.:

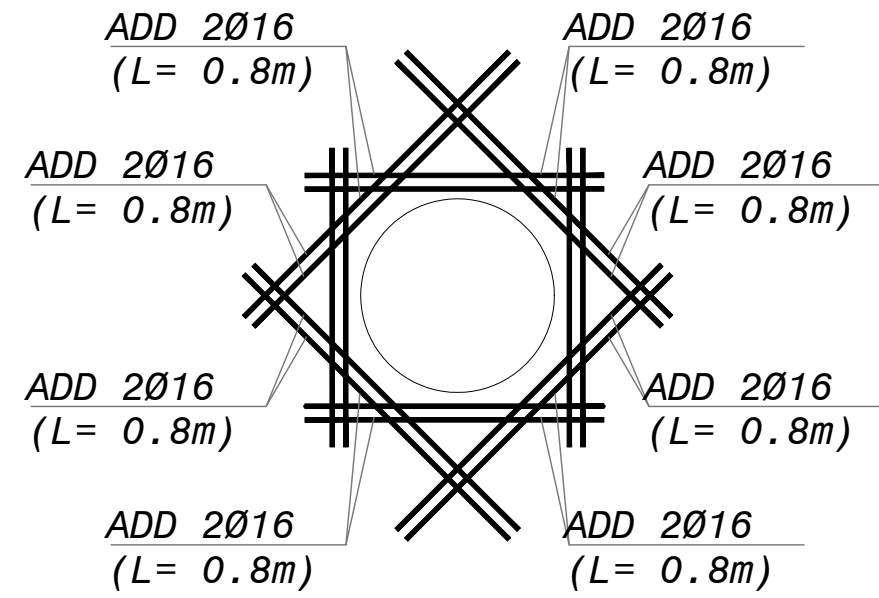
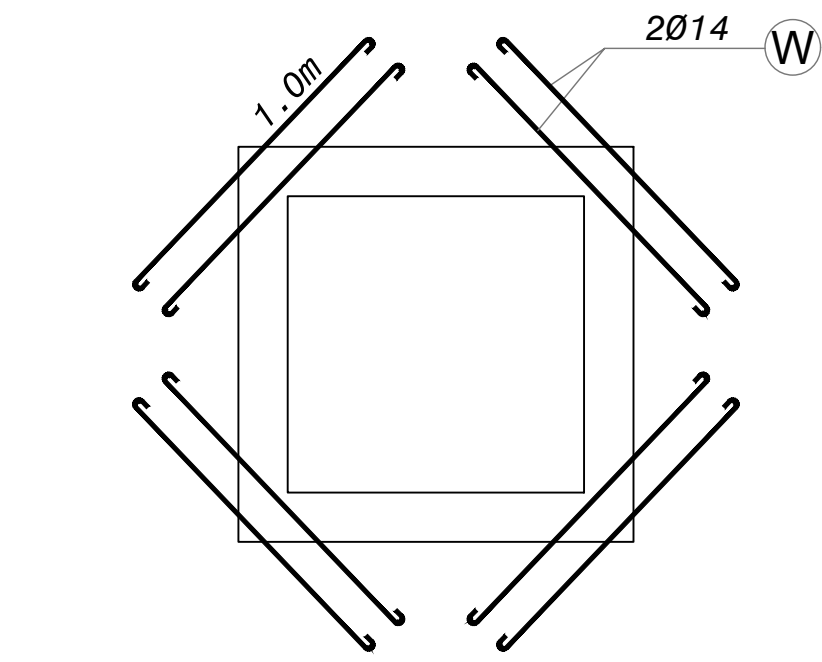
Well and Transm
Well Site - Civil

Tank Section Reinforcement Details - II

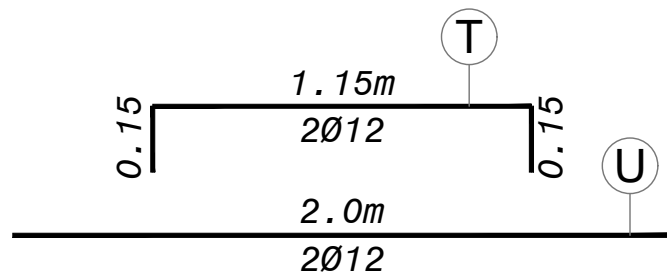
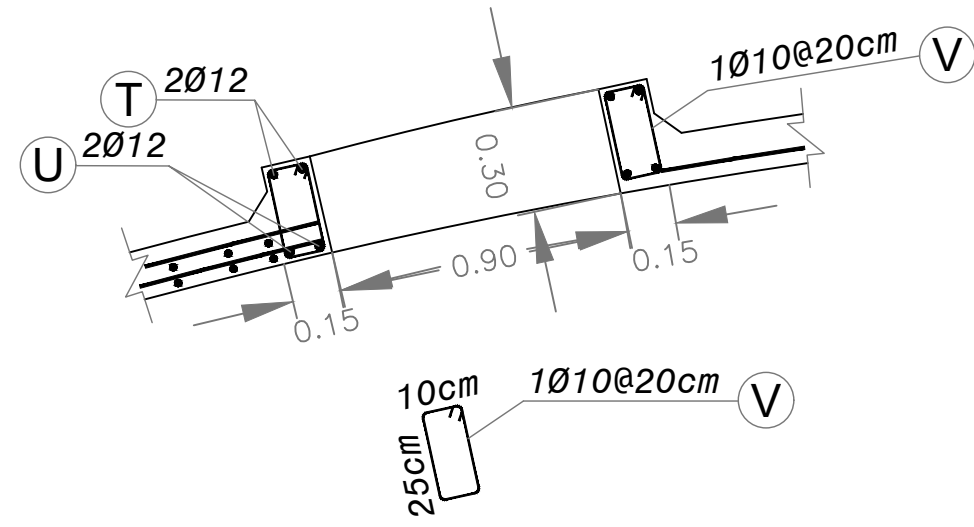
		مركز المهندسة والتخطيط center for engineering and planning	
Center for Engineering and Planning Al Bireh - Al Meidan St. Against Al Watanyah Towers P.O.Box 301			
F I N A L 2021-09-19		2025/105/01	
Drawn:	Designed:	Checked:	Approved:
Samed Burnat	Bahaa Al Wur	Oasma Bazzour	Bassam Abu Zahra
File Name:	Date:	Scale:	Size:
JAP-W-TANK-C.dwg	24-08-2021	1 : 10	A1
Drawing No.	Rev.		
JAP-W-TANK-C-04	025/105/01		

Donor:		من الشعب الياباني From the People of Japan
Owner:		مملكة العربية السعودية Ministry of Economic Affairs Jeddah
Operator:		Jericho Municipality بلدية Jericho
Implementing Agency:		United Nations Development Programme Programme of Assistance to the Palestinian People برنامج المساعدة الى الشعب الفلسطيني

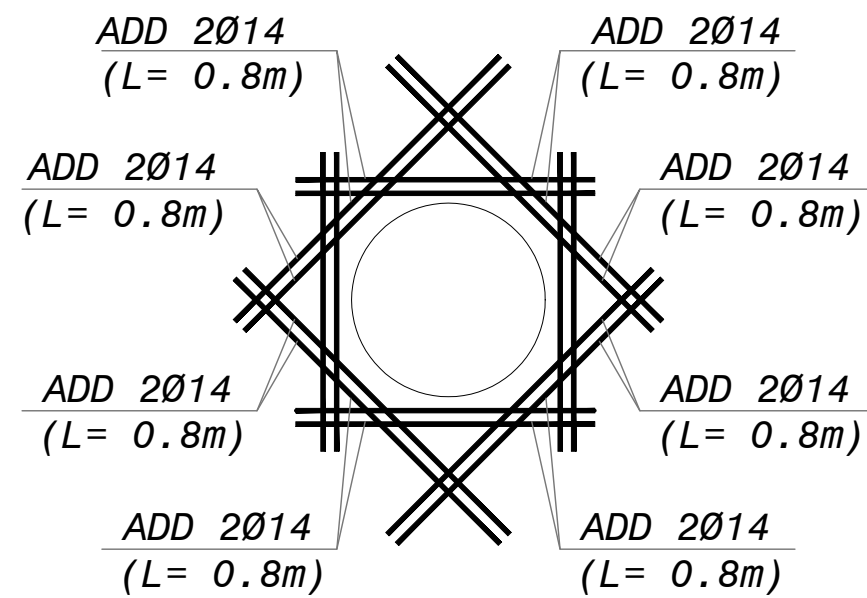
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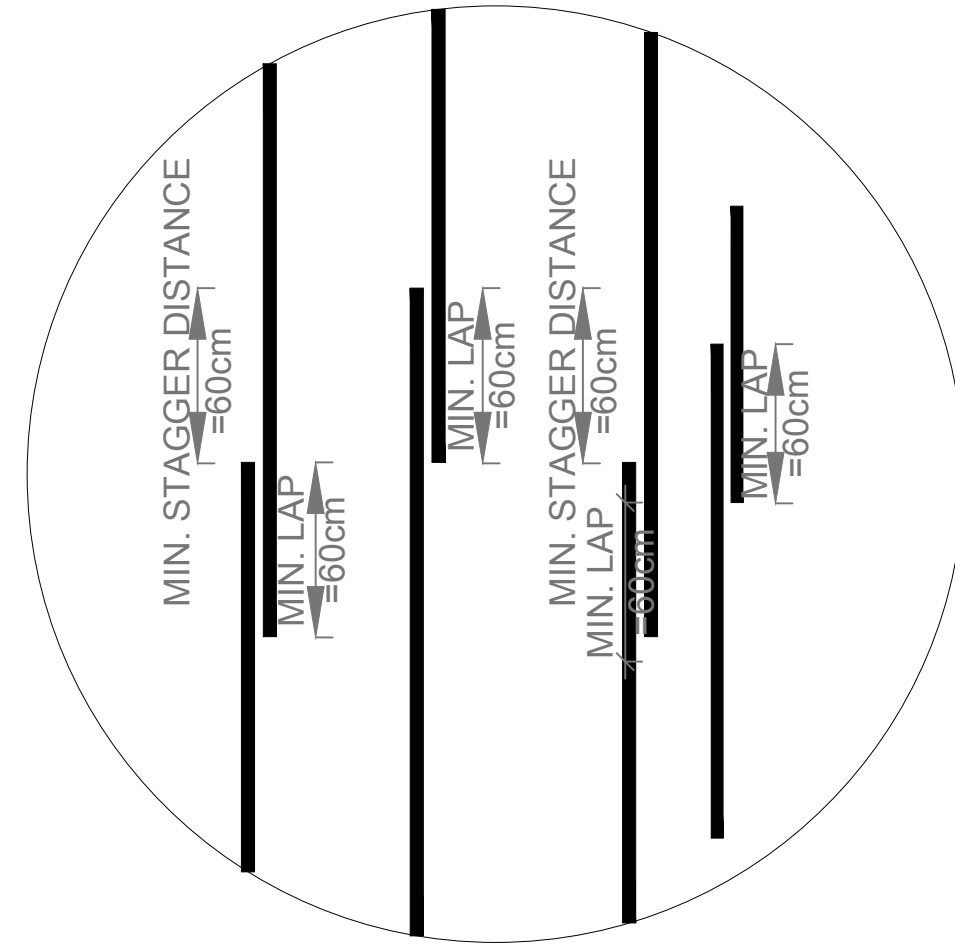
REINF. AROUND OPENING IN WALLS (PIPES)
EACH FACE (EXT. & INT.) LESS THAN 300mm



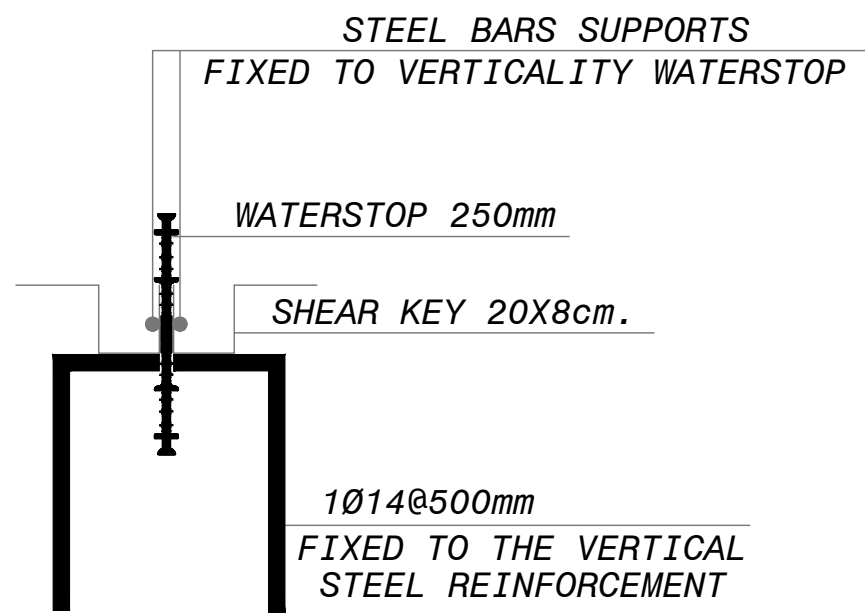
DETAIL OF ENTRANCE



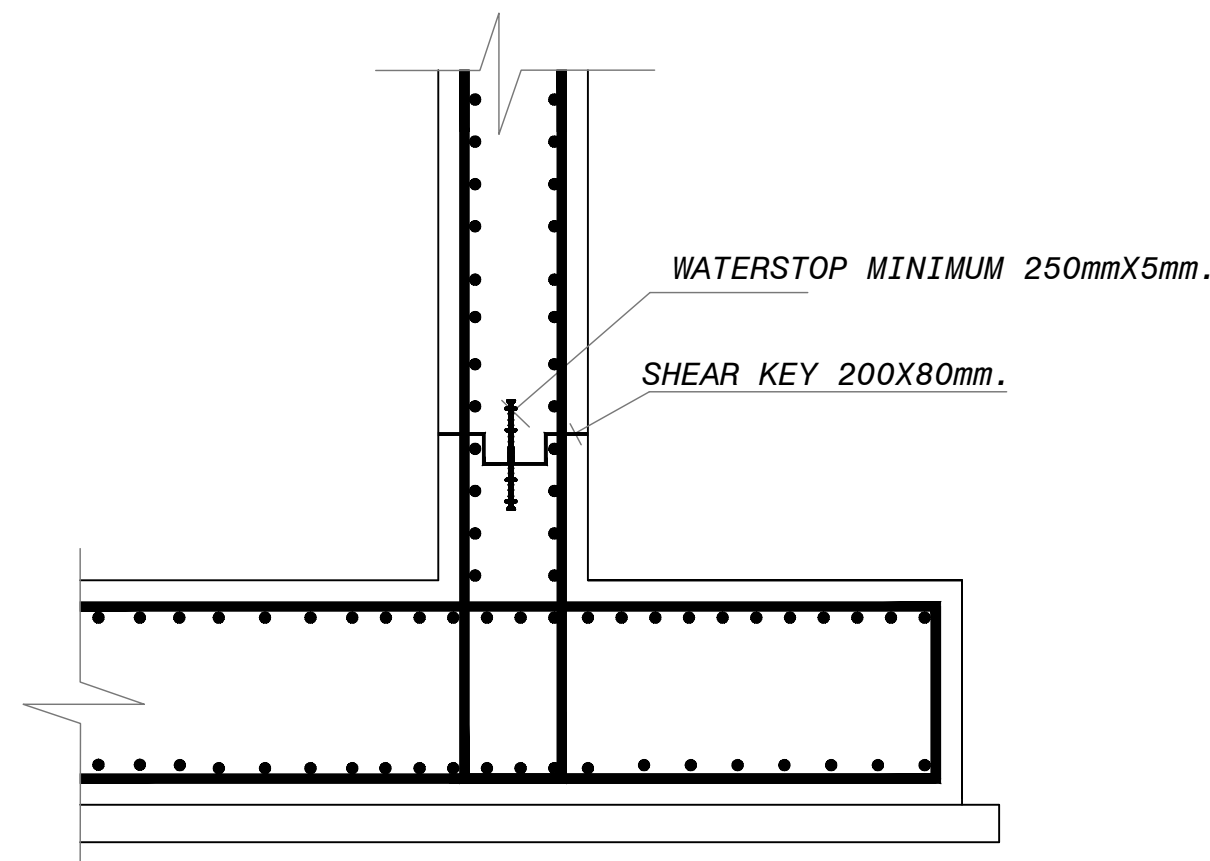
REINF. AROUND OPENING IN DOME (PIPES)
EACH FACE (EXT. & INT.) LESS THAN 300mm



TYPICAL STAGGERING REINFORCEMENT DETAILS



CONSTRUCTION JOINT FIXING METHOD



TYPICAL WALL CONSTRUCTION JOINT



P.V.C. WATERSTOP FOR
WALL CONSTRUCTION JOINT

NOTES

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2	24.08.2021	Draft Detailed Design	BM	OB	BA
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Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

Contract No.:
Detail Design
Construction of Deep Well and Transmission Pipeline for JAIP
Well Site - Civil
Tank Section Reinforcement Details - II

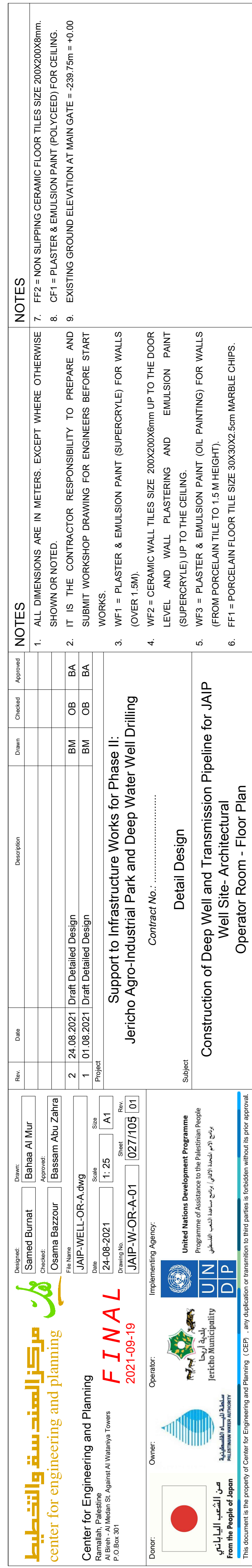
center for engineering and planning

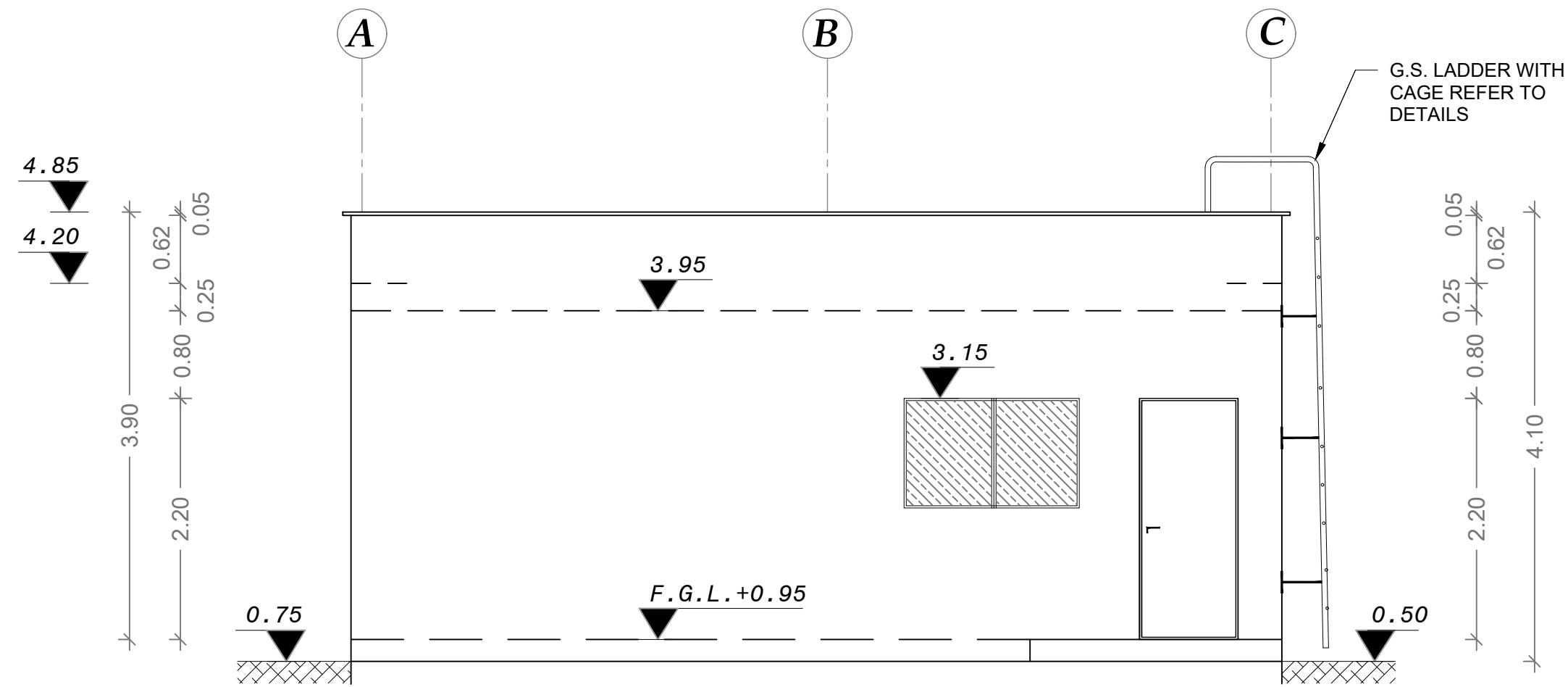
Center for Engineering and Planning
Ramallah, Palestine
Al Bireh - Al Meidan St. Against Al Watanyat Towers
P.O. Box 301

United Nations Development Programme
Programme of Assistance to the Palestinian People
مركز الهندسة والتخطيط
Jericho Municipality

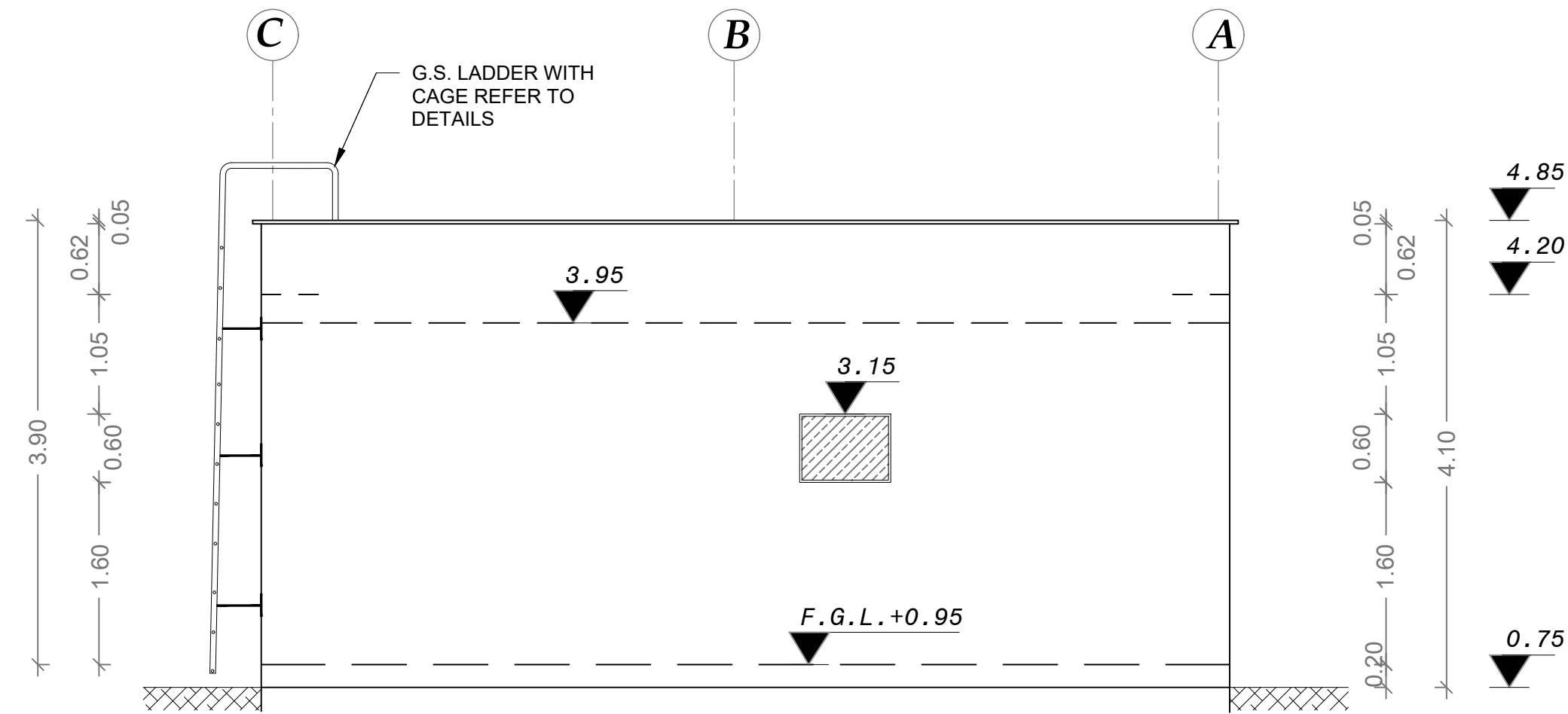
Ministry of Planning
Jericho Municipality

From the People of Japan
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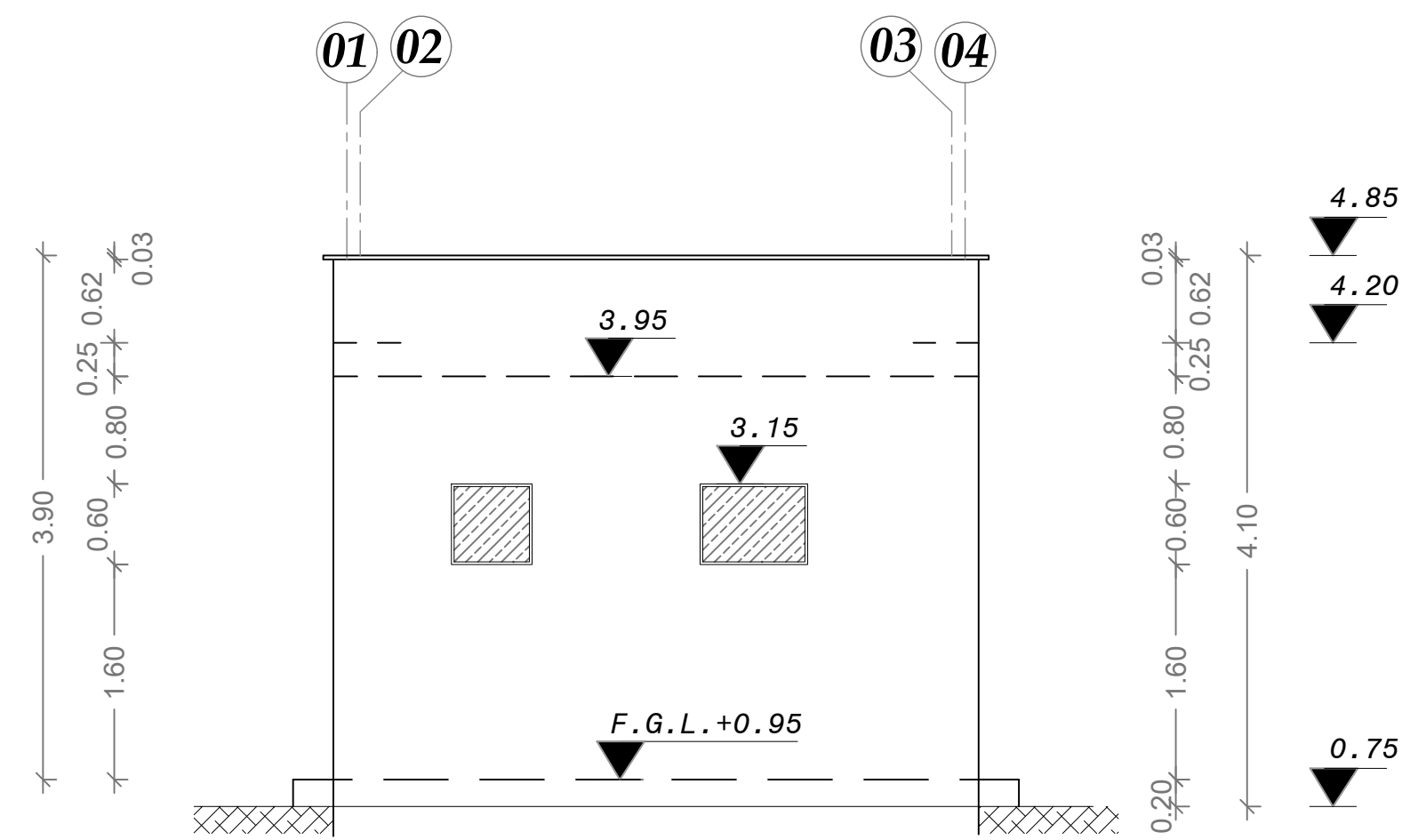




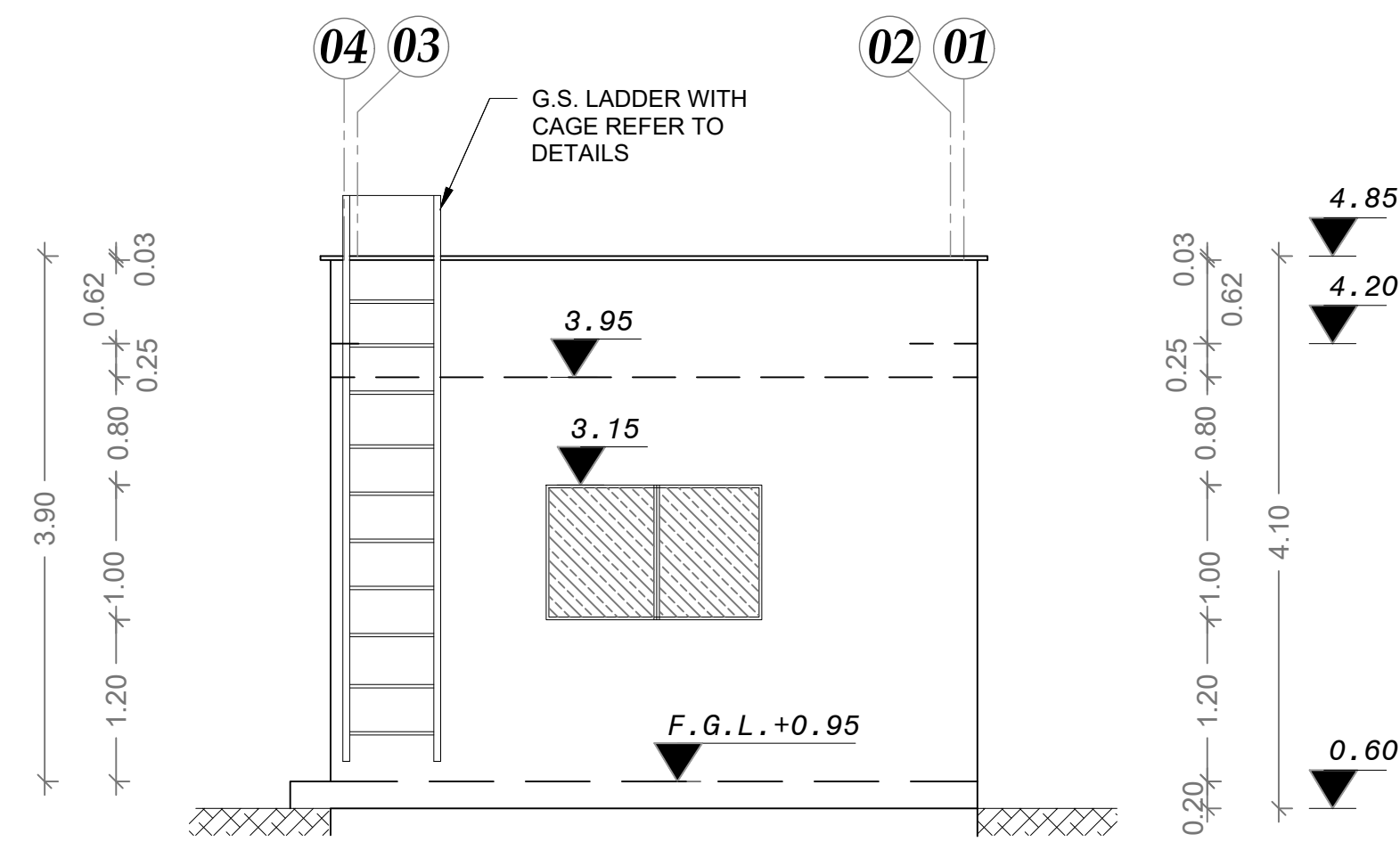
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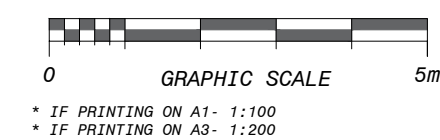
ELEVATION NO.2



ELEVATION NO.3



ELEVATION NO. 4



Drawn: **Bahaa Al Mur**

Checked: **Samiat Burnat**

File Name: **JAIIP-WELL-OR-A.dwg**

Date: **24-08-2021**

Drawing No: **JAIIP-W-OR-A-02**

Scale: **1:50**

Size: **A1**

Sheet: **028/105**

Rev: **01**

Approved: **Osama Bazzour**

Approved: **Bassam Abu Zahra**

Project: **Draft Detailed Design**

Project: **1**

Project: **01.08.2021**

Project: **BM**

Project: **OB**

Project: **BA**

Rev: **01**

Rev: **02**

Rev: **03**

Rev: **04**

Rev: **01**

Rev: **02**

Rev: **03**

Rev: **04**

center for engineering and planning

Center for Engineering and Planning

Ramallah, Palestine

Ai Bireh - Al Meidan St. Against Al Watanyat Towers

P.O Box 301

FINAL

2021-09-19

Owner:

Operator:

Donor:

Implementing Agency:

Subject: **Construction of Deep Well and Transmission Pipeline for JAIP**

Detail Design

Contract No.: **239/75m = +0.00**

Notes

1. ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.

2. IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWING FOR ENGINEERS BEFORE START WORKS.

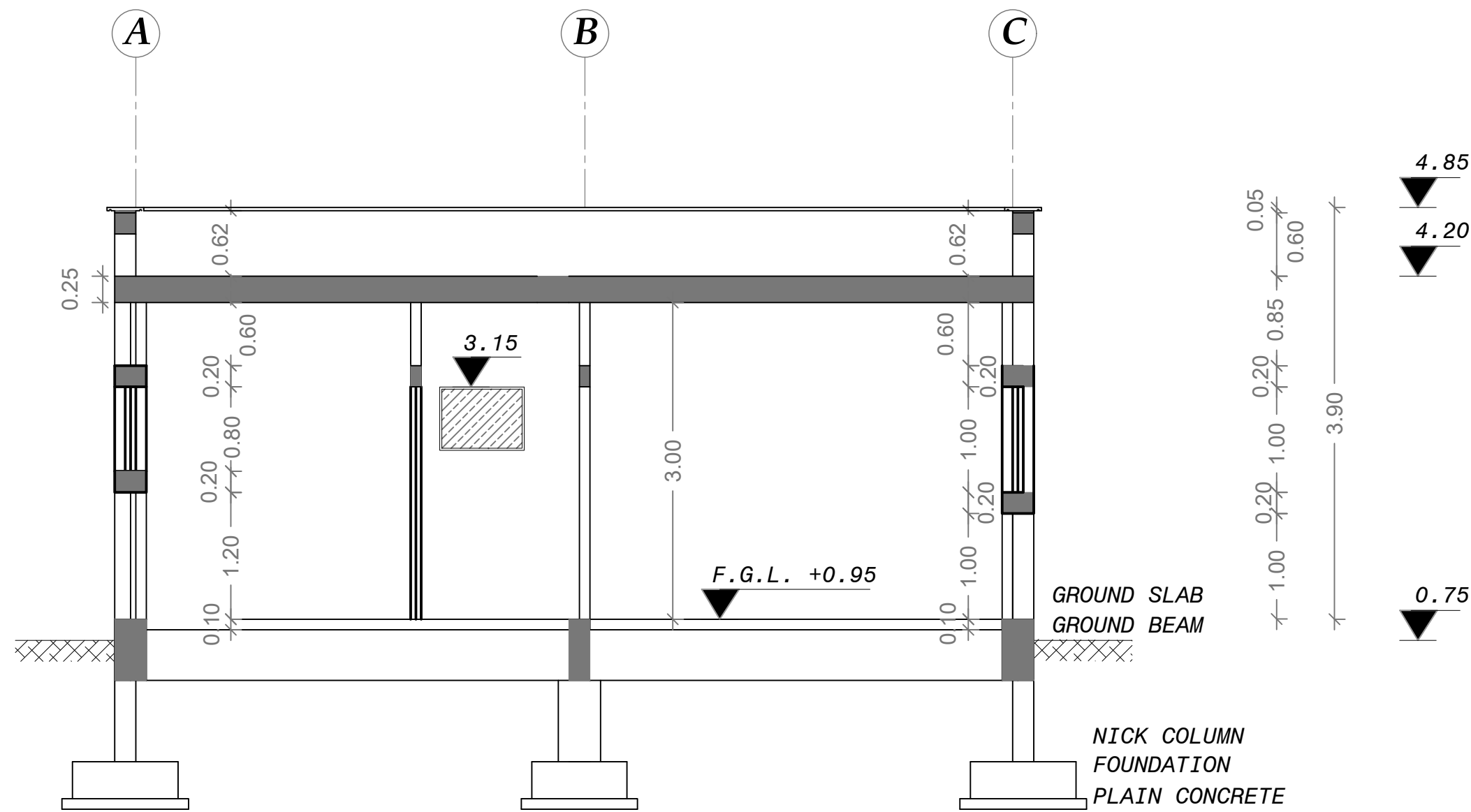
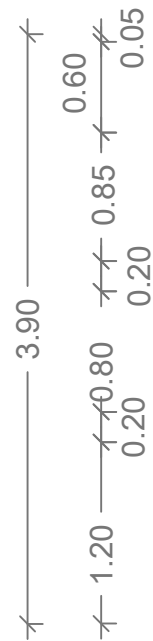
3. EXISTING GROUND ELEVATION AT MAIN GATE = 239/75m = +0.00

Notes

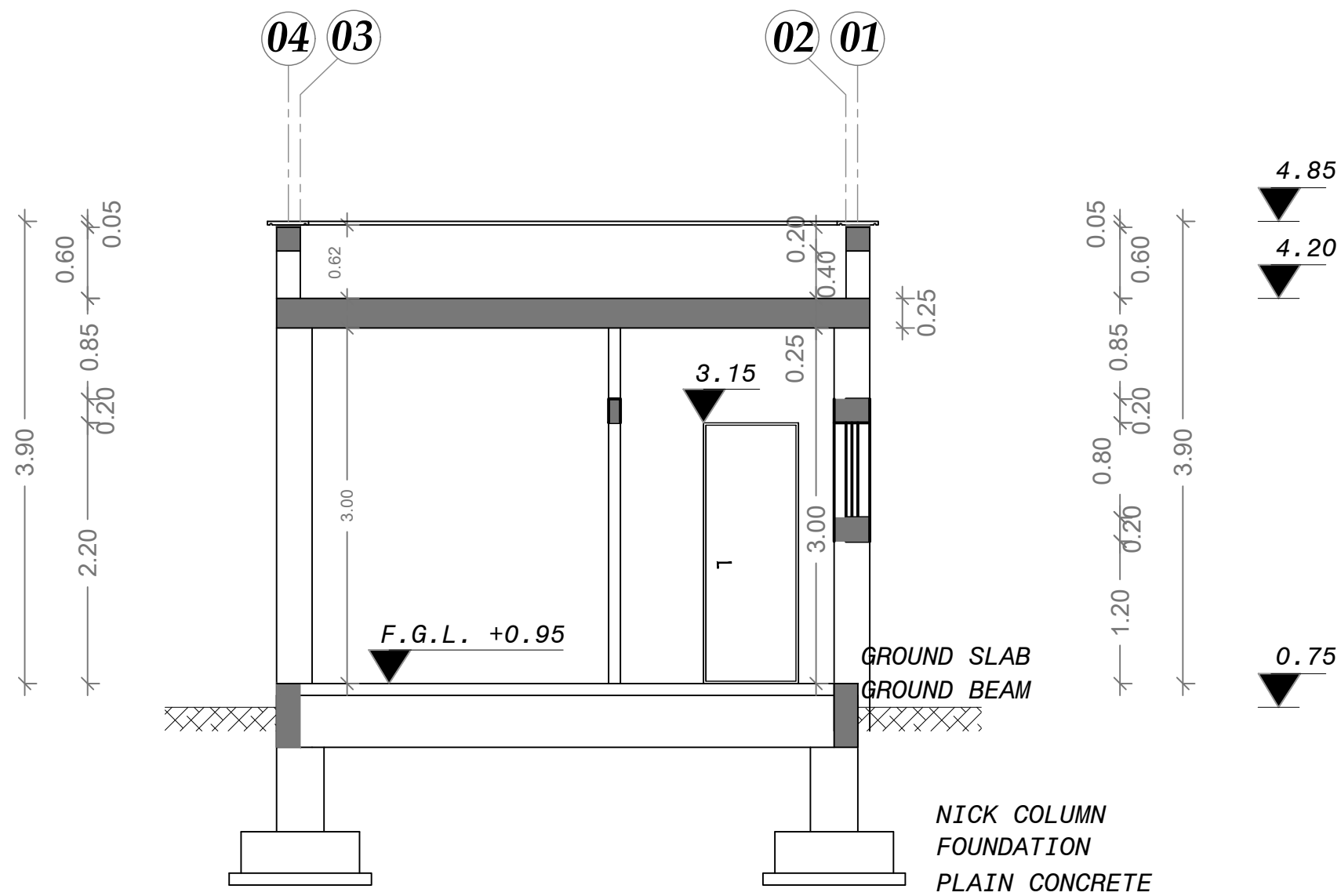
1. ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.

2. IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWING FOR ENGINEERS BEFORE START WORKS.

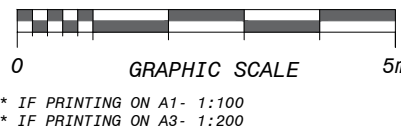
3. EXISTING GROUND ELEVATION AT MAIN GATE = 239/75m = +0.00



SECTION A-A



SECTION B-B



center for engineering and planning

Center for Engineering and Planning

Ramallah, Palestine

Al Bireh - Al Meidan St. Against Al Watanyat Towers

P.O Box 301

Donor:

From the People of Japan

Owner:

Jericho Municipality

Implementing Agency:

United Nations Development Programme

Programme of Assistance to the Palestinian People

مركز الهندسة والتخطيط

Jericho Municipality

Drawn: [Baha Al Mur]

Checked: [Osama Bazzour]

File Name: JAIIP-WELL-OR-A.dwg

Date: 24-08-2021

Drawing No: JAIIP-W-OR-A-03

Scale: 1:50

Size: A1

Sheet: 029/105

Rev: 01

Contract No.:

Support to Infrastructure Works for Phase II:

Jericho Agro-Industrial Park and Deep Water Well Drilling

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP

Well Site- Architectural

Operator Room - Sections

Rev.	Date	Description	Drawn	Checked	Approved
1	01.08.2021	Draft Detailed Design	BM	OB	BA

Project

Contract No.:

Support to Infrastructure Works for Phase II:

Jericho Agro-Industrial Park and Deep Water Well Drilling

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP

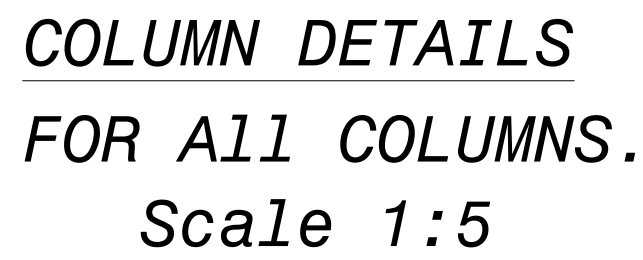
Well Site- Architectural

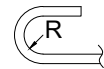
Operator Room - Sections

NOTES

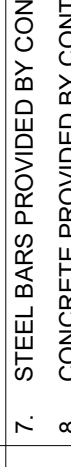
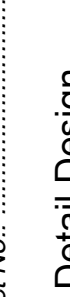
- ALL DIMENSIONS ARE IN METERS, EXCEPT WHERE OTHERWISE SHOWN OR NOTED.
- IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWING FOR ENGINEERS BEFORE START WORKS.

Footings		Total	Footings size			Reinforcement		
FOOT.NAME	FOOT.NO.		L (cm)	W (cm)	h (cm)	LONG DIR.	SHORT DIR.	Shape
F1	6	6	120	120	50	1Ø12@15cm	1Ø12@15cm	



- ## NOTES
10. MIN. LAP FOR STEEL BAR = 60CM OR 50 x DIA. BAR WHICH IS GREATER.
 11. FOUND. AND COL. ARE DESIGNED ACCORDING TO ARCH. DRAWINGS.
 12. MINIMUM DEPTH OF EXCAVATION IS 1.5M TO THE BOTTOM OF FOUNDATION AND/OR AS PER THE ENGINEER INSTRUCTIONS.
 13. BAR CUT OFF POINTS FOR TYPICAL BEAMS IS AS FOLLOWS:
 14. FOR OTHER BEAMS .THE CONTRACTOR SHOULD SUBMIT SHOP DRAWING FOR ENGINEER APPROVAL..
- | BENDS |  | | HOOKS |  | |
|----------|---|--|-------|---|--|
| BAR SIZE | GRADE 250
(TYPE & GRADE R) | | | GRADE 420
(TYPE AND GRADE T) | |
| D | R | | | R | |
| 6 | 12 | | | 18 | |
| 8 | 16 | | | 24 | |
| 10 | 20 | | | 30 | |
| 12 | 24 | | | 36 | |
| 14 | 28 | | | 42 | |
| 16 | 32 | | | 48 | |
| 18 | 36 | | | 54 | |

BENDS 		HOOKS 	
BAR SIZE	GRADE 250 (TYPE & GRADE R)	GRADE 420 (TYPE AND GRADE T)	
D	R	R	
6	12	18	
8	16	24	
10	20	30	
12	24	36	
14	28	42	
16	32	48	
18	36	54	

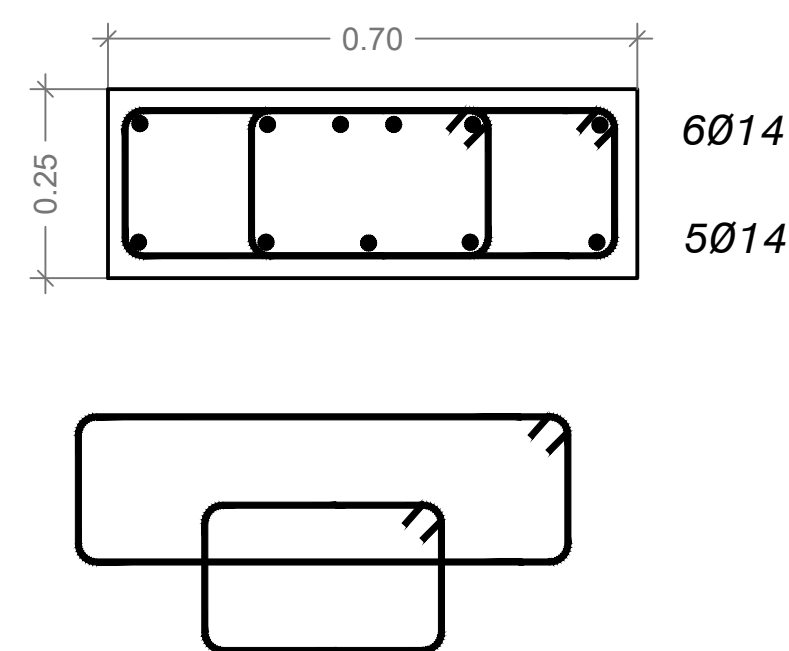
 مركز الهندسة والتخطيط center for engineering and planning		Drawn: Bahaa Al Mur Checked: Bassam Abu Zahra Approved: Osama Bazzour		Revised: Samed Burnat Checked: Osama Bazzour Approved: Osama Bazzour		Drawn: Bahaa Al Mur Checked: Bassam Abu Zahra Approved: Osama Bazzour	
File Name: JWP-Well-OR-C.dwg		Scale: 1: 50		Size: A1		Project: 1	
Date: 19-09-2021		Sheet: 1		Revised: 032/105		Project: 01	
Drawing No: JAWP-W-OR-C-03		Sheet: 032/105		Revised: 01		Project: 01	
Donor: 		Owner: 		Implementing Agency: 		Operator: 	
Center for Engineering and Planning Ramallah, Palestine Al Beian - Al Meidan St. Against Al Watany Towers P.O box 301		United Nations Development Programme Programme of Assistance to the Palestinian People مركز الهندسة والتخطيط Jericho Municipality		Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil		Operator Room - Columns and Footings Details	
Notes		Notes		Notes		Notes	
1. ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.		1. ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.		1. ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.		1. ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.	
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5. CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.		5. CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.		5. CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.		5. CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.	
6. DESIGN CODE ACI 318M-14.		6. DESIGN CODE ACI 318M-14.		6. DESIGN CODE ACI 318M-14.		6. DESIGN CODE ACI 318M-14.	
7. STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.		7. STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.		7. STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.		7. STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa.	
8. CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH AS: - FOR COLUMNS B300 - FOR FOUNDATION & SLABS B300 - FOR STAIRS B300 - FOR POST LINTELS,CANOPIES ALL SECONDARY ELEMENTS B250 - FOR PLAN CONCRETE B200		8. CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH AS: - FOR COLUMNS B300 - FOR FOUNDATION & SLABS B300 - FOR STAIRS B300 - FOR POST LINTELS,CANOPIES ALL SECONDARY ELEMENTS B250 - FOR PLAN CONCRETE B200		8. CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH AS: - FOR COLUMNS B300 - FOR FOUNDATION & SLABS B300 - FOR STAIRS B300 - FOR POST LINTELS,CANOPIES ALL SECONDARY ELEMENTS B250 - FOR PLAN CONCRETE B200		8. CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH AS: - FOR COLUMNS B300 - FOR FOUNDATION & SLABS B300 - FOR STAIRS B300 - FOR POST LINTELS,CANOPIES ALL SECONDARY ELEMENTS B250 - FOR PLAN CONCRETE B200	
9. STEEL COVERS: - FOR FOUNDATIONS (CAST AGAINST SOIL) =7.5 CM (FOR PROTECTED CONCRETE) =5.0 CM - FOR COLUMNS =4.0 CM - FOR SLABS =2.5 CM - FOR BEAMS =4.0 CM		9. STEEL COVERS: - FOR FOUNDATIONS (CAST AGAINST SOIL) =7.5 CM (FOR PROTECTED CONCRETE) =5.0 CM - FOR COLUMNS =4.0 CM - FOR SLABS =2.5 CM - FOR BEAMS =4.0 CM		9. STEEL COVERS: - FOR FOUNDATIONS (CAST AGAINST SOIL) =7.5 CM (FOR PROTECTED CONCRETE) =5.0 CM - FOR COLUMNS =4.0 CM - FOR SLABS =2.5 CM - FOR BEAMS =4.0 CM		9. STEEL COVERS: - FOR FOUNDATIONS (CAST AGAINST SOIL) =7.5 CM (FOR PROTECTED CONCRETE) =5.0 CM - FOR COLUMNS =4.0 CM - FOR SLABS =2.5 CM - FOR BEAMS =4.0 CM	



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* IF PRINTING ON A3- 1:200

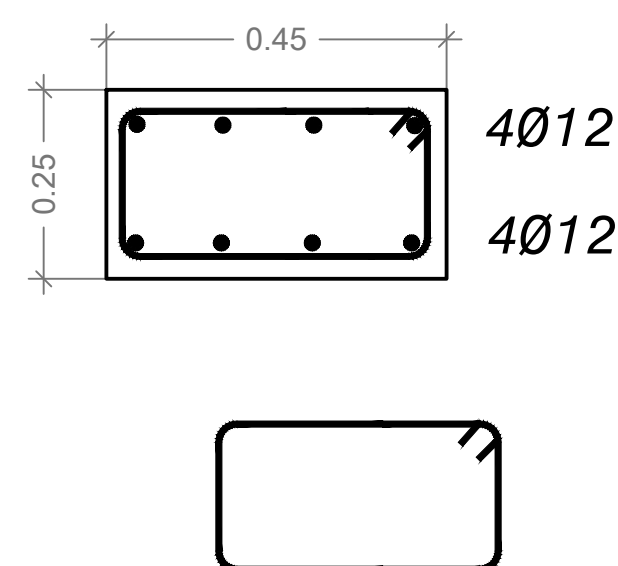
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STIRRUPS 2Ø10@20cm

SECTION: B1-1

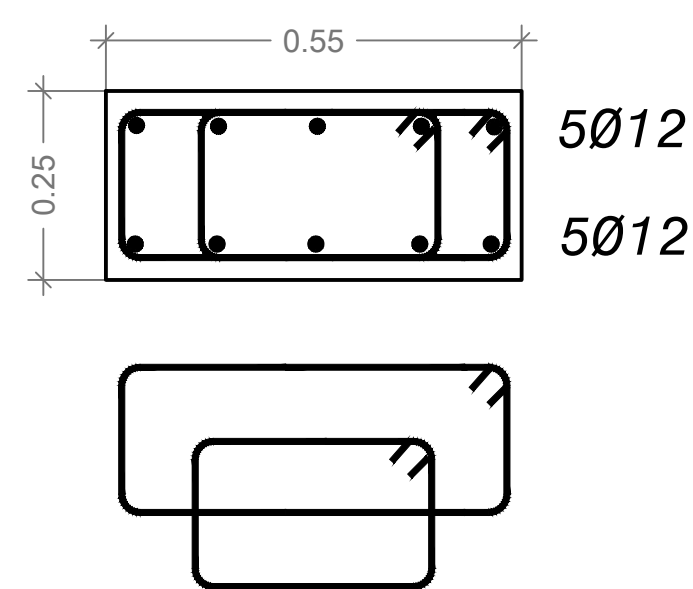
SCALE: 1:10



STIRRUPS 1Ø10@20cm

SECTION: B2-1

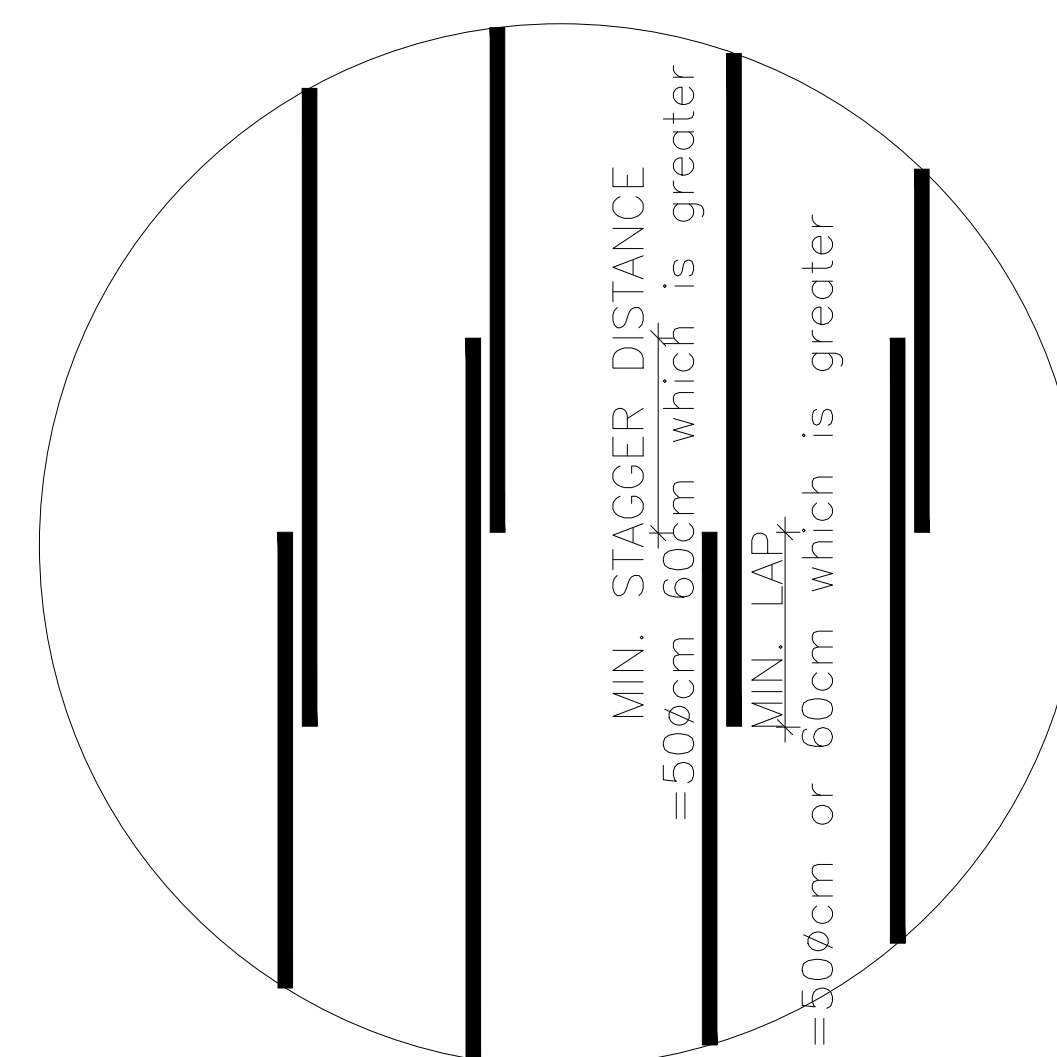
SCALE: 1:10



STIRRUPS 2Ø10@20cm

SECTION: B3-1

SCALE: 1:10



TYPICAL STAGGERING REINFORCEMENT DETAILS

NOTES

- MIN. LAP FOR STEEL BAR = 60CM OR 50 x DIA. BAR WHICH IS GREATER.
- FOUND. AND COL. ARE DESIGNED ACCORDING TO ARCH. DRAWINGS.
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- BAR CUT OFF POINTS FOR TYPICAL BEAMS IS AS FOLLOWS:

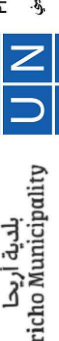
LARGER OF LARGER OF
0.33L1 & 0.33L2 0.33L2 & 0.33L3

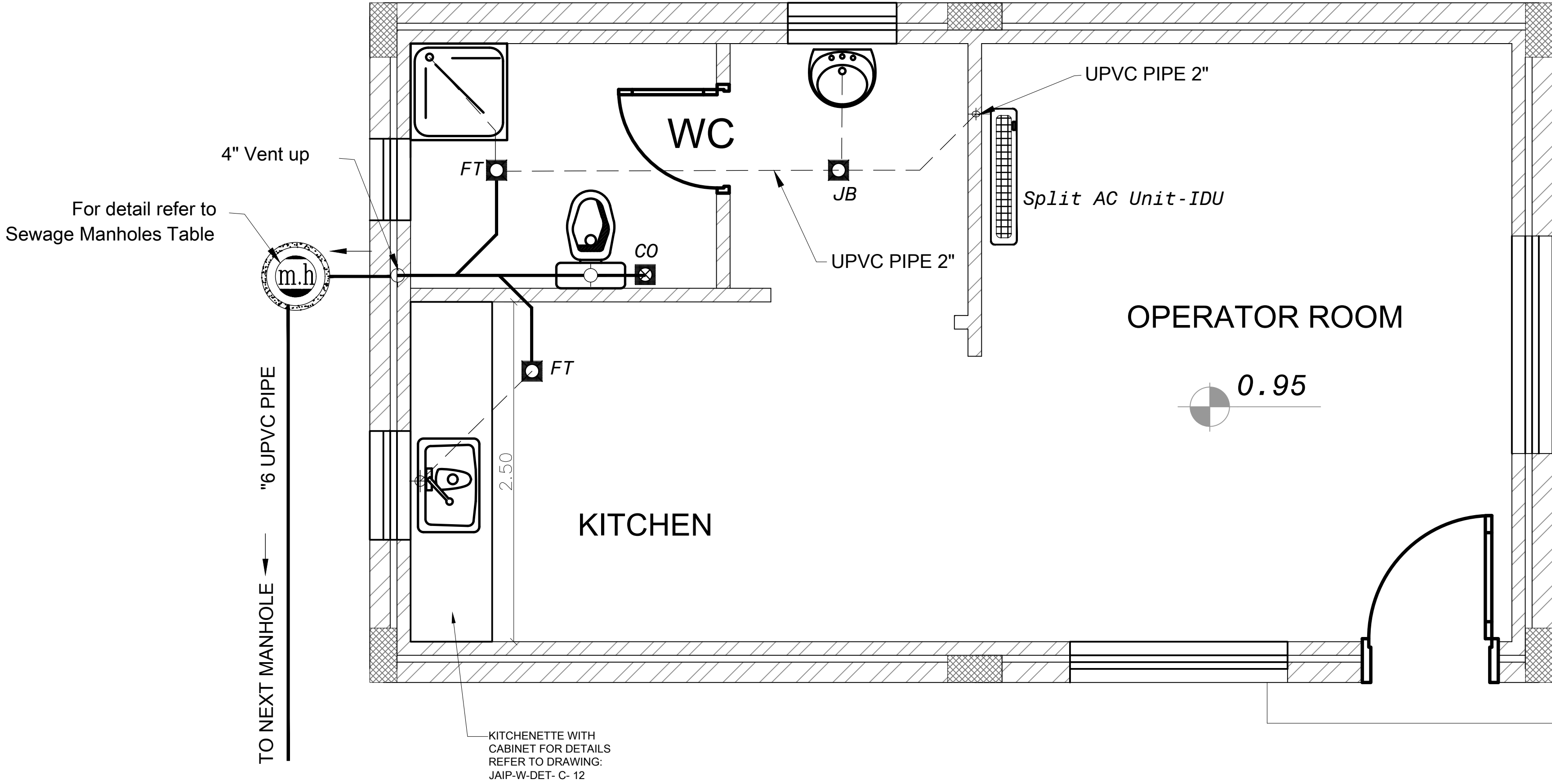
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L1 L2 L3

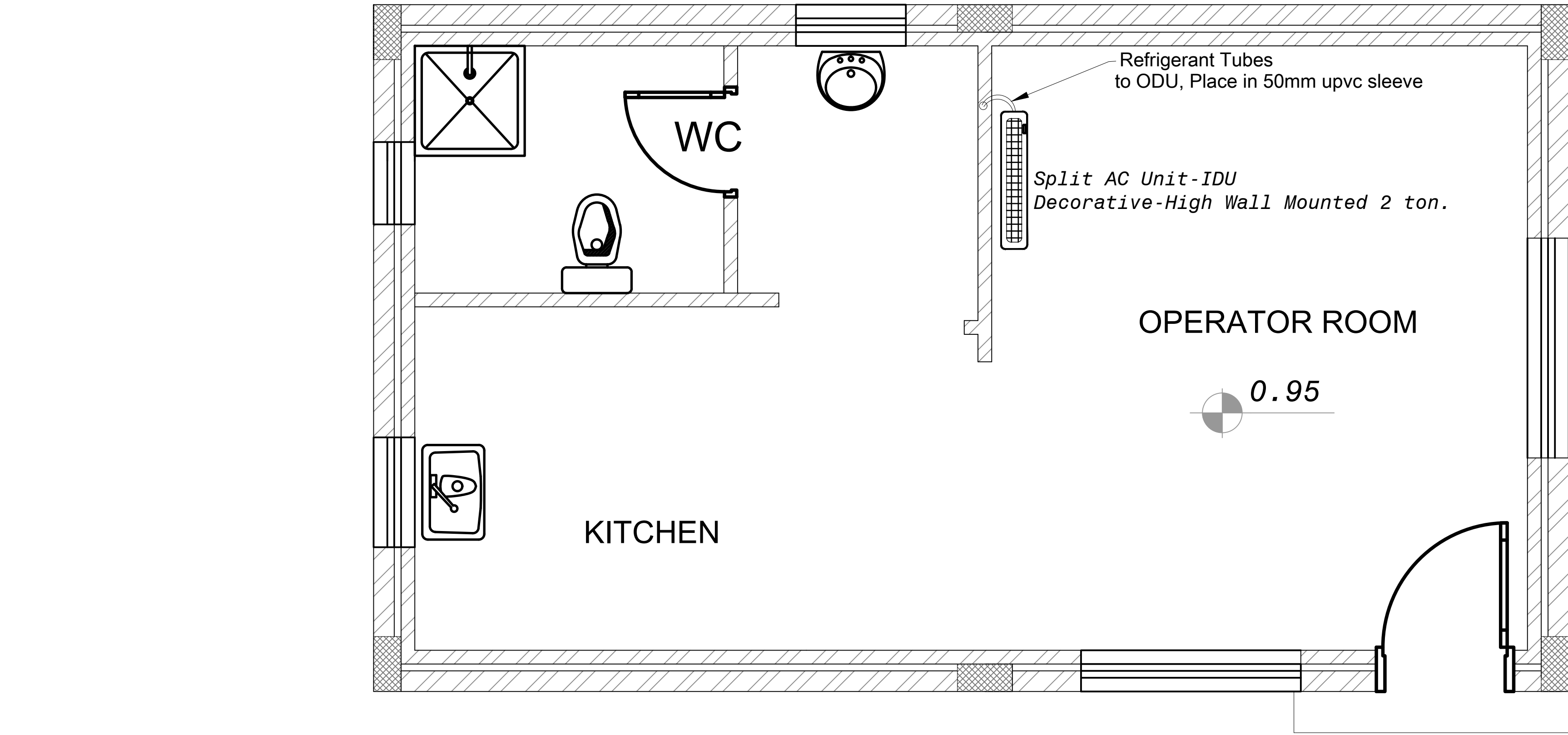
- FOR OTHER BEAMS THE CONTRACTOR SHOULD SUBMIT SHOP DRAWING FOR ENGINEER APPROVAL.

BENDS			HOOKS		
BAR SIZE	GRADE 250 (TYPE & GRADE R)		GRADE 420 (TYPE AND GRADE T)		
D	R		R		
6	12		18		
8	16		24		
10	20		30		
12	24		36		
14	28		42		
16	32		48		
18	36		54		

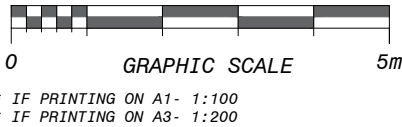
 مركز المهندسين والتخطيط center for engineering and planning Center for Engineering and Planning State of Palestine Al Bireh - Al Meidan St. Against Al Wateen Towers P.O.Box 301				Drawn: Bahaa Al Mur Designed: Samed Bunat Checked: Osama Bazzour File Name: JAIP-WELL-OR-C.dwg Date: 19-09-2021 Drawing No: JAIP-W-OR-C-05 Scale: 1: 50 Sheet: 034/105 Size: A1			
Donor:  Operator:  Jericho Municipality Owner: 				Implementing Agency:  United Nations Development Programme Programme of Assistance to the Palestinian People برامج الأمم المتحدة للتنمية			
Contract No.: Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling				Subject: Detail Design Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil Operator Room - Reinforcement Slab - II			
Rev. Date Description				Drawn Checked Approved			
2 24.08.2021 Draft Detailed Design 1 01.08.2021 Draft Detailed Design Project				BM OB BA BM OB BA			
NOTES				NOTES			
1. ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED. 2. IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWING FOR ENGINEERS BEFORE START WORKS. 3. ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PERTINENT ARCHITECTURAL, ELECTRICAL, MECHANICAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS. 4. IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE. 5. CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN. 6. DESIGN CODE ACI 318M-14.				7. STEEL BARS PROVIDED BY CONTRACTOR (G420) Fy=420 MPa. 8. CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH AS: - FOR COLUMNS B300 - FOR FOUNDATION & SLABS B300 - FOR STAIRS B300 - FOR POST LINTELS,CANOPIES ALL SECONDARY ELEMENTS B250 - FOR PLAIN CONCRETE B200 9. STEEL COVERS: - FOR FOUNDATIONS (CAST AGAINST SOIL) =7.5 CM (FOR PROTECTED CONCRETE) =5.0 CM - FOR COLUMNS =4.0 CM - FOR SLABS =2.5 CM - FOR BEAMS =4.0 CM			



OPERATOR ROOM- DRAINAGE PLAN



OPERATOR ROOM- AIR CONDITIONING PLAN



Donor:



From the People of Japan

Owner:



Jericho Municipality

Implementing Agency:



United Nations Development Programme
Programme of Assistance to the Palestinian People
مركز الهندسة والتخطيط
center for engineering and planning

Operator:



Jericho Municipality

Donor:



From the People of Japan

Drawn: Baha Al Mur

Checked: Osama Bazzour

File Name: JAIP-WELL-OR-M.dwg

Date: 20-09-2021

Drawing No: JAIP-W-OR-M-01

Sheet: 035/105

Size: A1

Scale: 1:25

Drawn: Baha Al Mur

Checked: Osama Bazzour

File Name: JAIP-WELL-OR-M.dwg

Date: 20-09-2021

Drawing No: JAIP-W-OR-M-01

Sheet: 035/105

Size: A1

Scale: 1:25

Center for Engineering and Planning
Ramallah, Palestine
Al Bireh - Al Meidan St. Against Al Watanyat Towers
P.O Box 301

Jericho Municipality
Jericho Municipality

United Nations Development Programme
Programme of Assistance to the Palestinian People
مركز الهندسة والتخطيط
center for engineering and planning

Rev.	Date	Description	Drawn	Checked	Approved
2	24.08.2021	Draft Detailed Design	BM	OB	BA
1	01.08.2021	Draft Detailed Design	BM	OB	BA

Project	Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling
Contract No.:	
Subject	Detail Design Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Mechanical Operator Room: Air Conditioning and Drainage Plans

LEGENDS	NOTES
110mm (4") UPVC PIPE.	1. ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.
50mm (2") UPVC PIPE.	2. CONTRACTOR SHALL SUBMIT THE MANUFACTURES, CATALOGS, DIMENSIONS, DETAILS AND CONNECTIONS FOR ALL MECHANICAL WORKS THAT SHOULD BE COMPATIBLE WITH THE SIZE OF BUILDING AND CHAMBERS.
4" Floor Trap.	3. CONTRACTOR SHALL SUBMIT SHOP PARTS & CONNECTIONS FOR MECHANICAL WORKS, STEEL PARTS & CONNECTIONS FOR ENGINEERS APPROVAL..
4" Clean Out.	4. IF THERE IS ANY DISCREPANCY IN DRAWINGS. THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
4" IDU.	
4" ODU.	

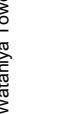


0 GRAPHIC SCALE 5m

* IF PRINTING ON A1- 1:100
* IF PRINTING ON A3- 1:200



Designed: Samed Bumat	Drawn: Bahaa Al Mur
Checked: Osama Bazzour	Approved: Bassam Abu Zahra
File Name: JAIP-WELL-OR-M.dwg	
Date: 20-09-2021	Scale: A1
Drawing No: JAIP-WR-OR-M-03	Sheet: 1/25
Issuing Agency: 037/105 [01]	

 مركز المهندسة والتخطيط center for engineering and planning	FINAL 2021-08-19	Operator:  بلدية اريحا Jericho Municipality	Owner:  مركز المهندسة والتخطيط center for engineering and planning
	Center for Engineering and Planning Ramallah, Palestine Al-Bian - JA Meidan St. Against Al Watahya Towers P.O.Box 301	Donor:  الشعب الياباني From the People of Japan	Implementing Agency:  United Nations Development Programme Programme of Assistance to the Palestinian People برنامج المساعدة الى الشعب الفلسطيني

Rev.	Date	Description	Drawn	Checked	Approved
2	24.08.2021	Draft Detailed Design	BM	OB	BA
1	01.08.2021	Draft Detailed Design	BM	OB	BA

Project

Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

Contract No.:

Subject

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP
Well Site- Mechanical
Operator Room - Rainwater Drainage Plan

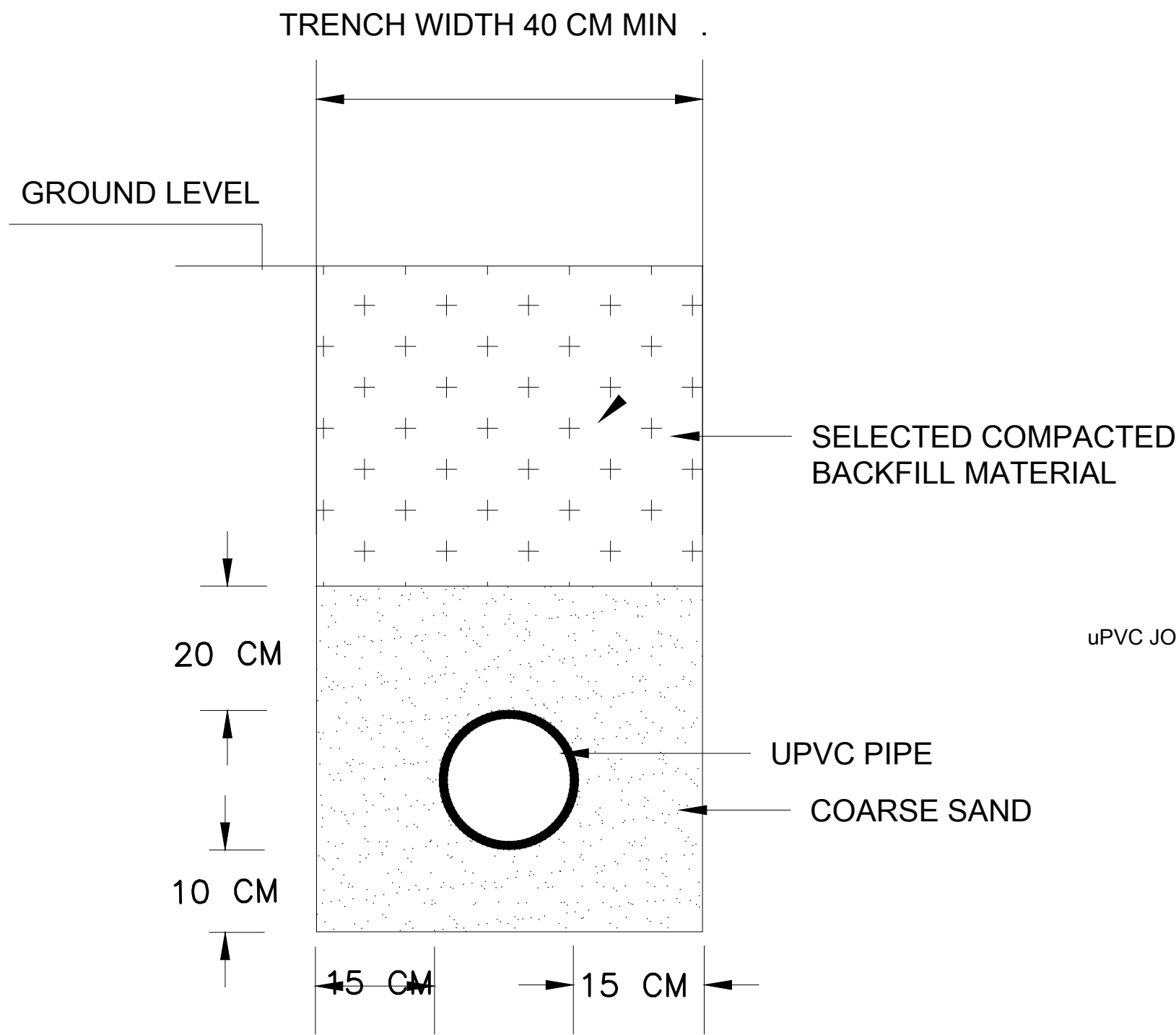
NOTES

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2. IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWING FOR ENGINEERS BEFORE START WORKS.

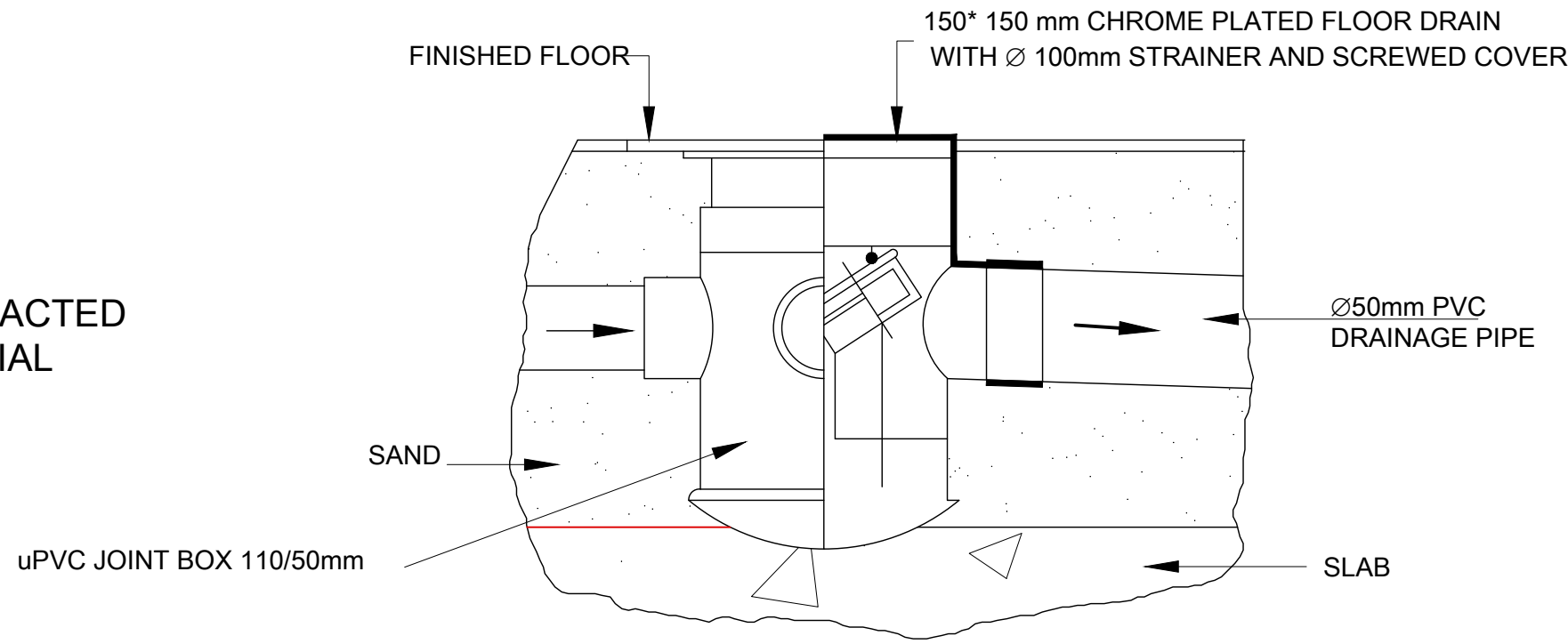
NOTES

NOTES	NOTES
1. ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.	
2. IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWING FOR ENGINEERS BEFORE START WORKS.	

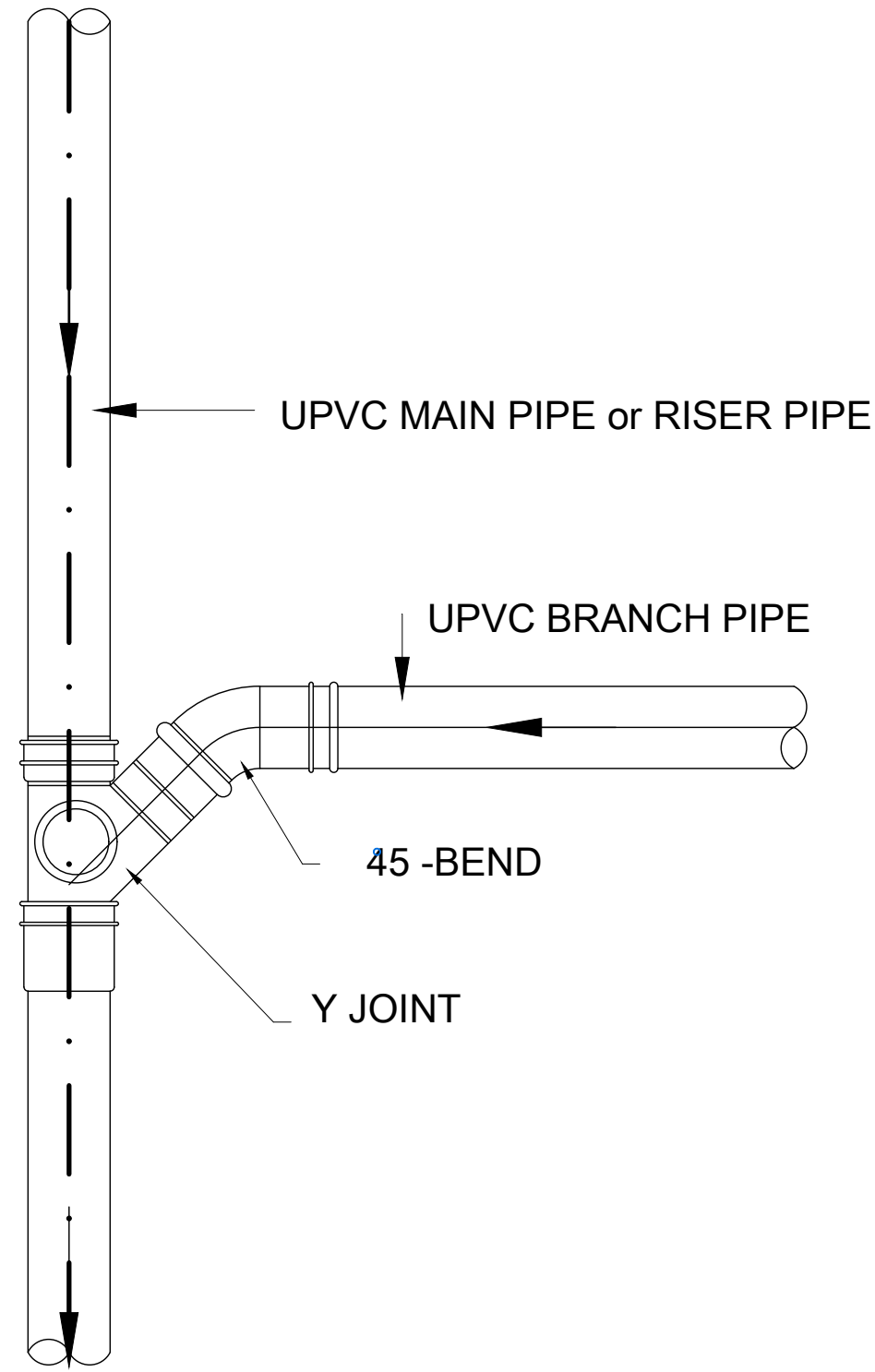
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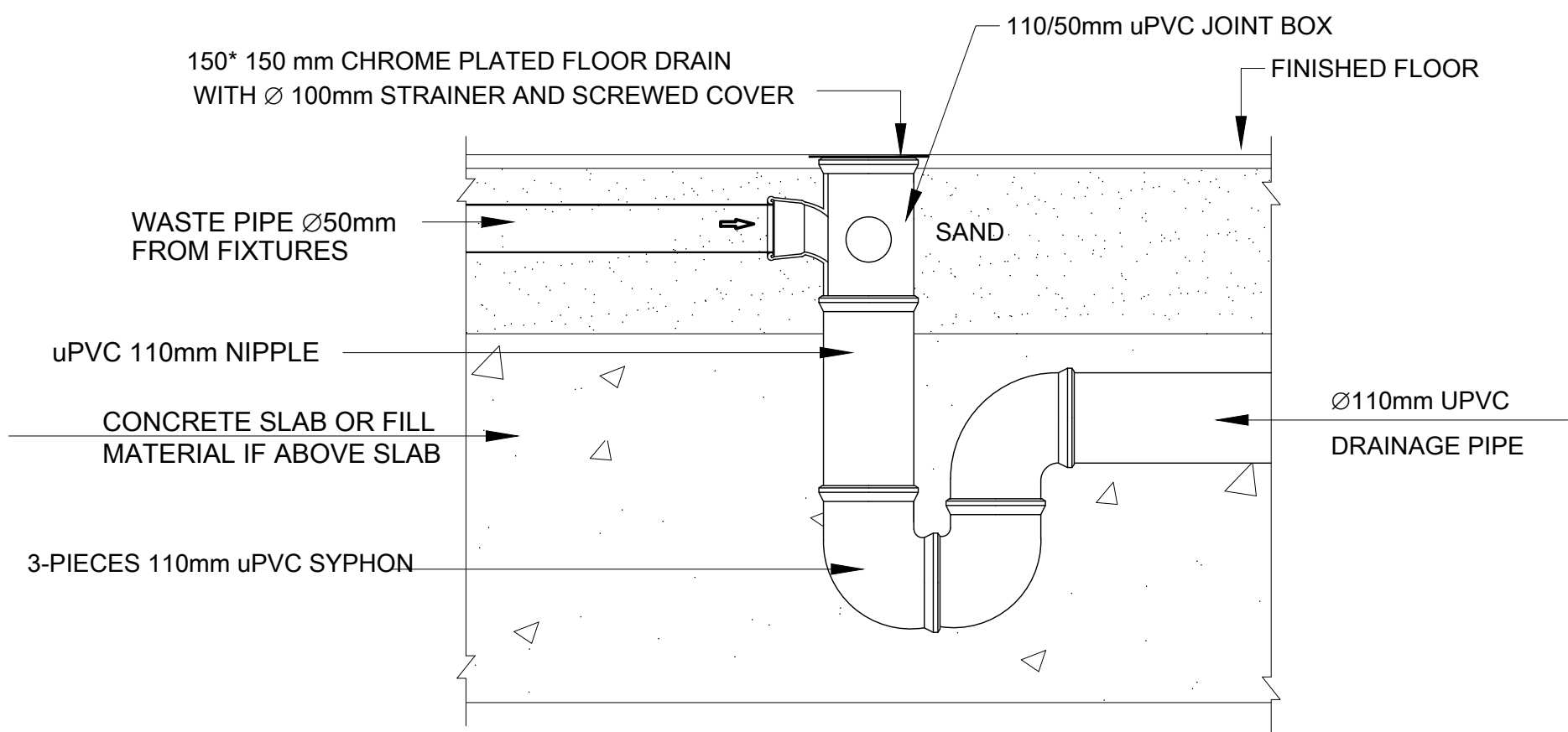
DRAINAGE PIPE TRENCH DETAIL



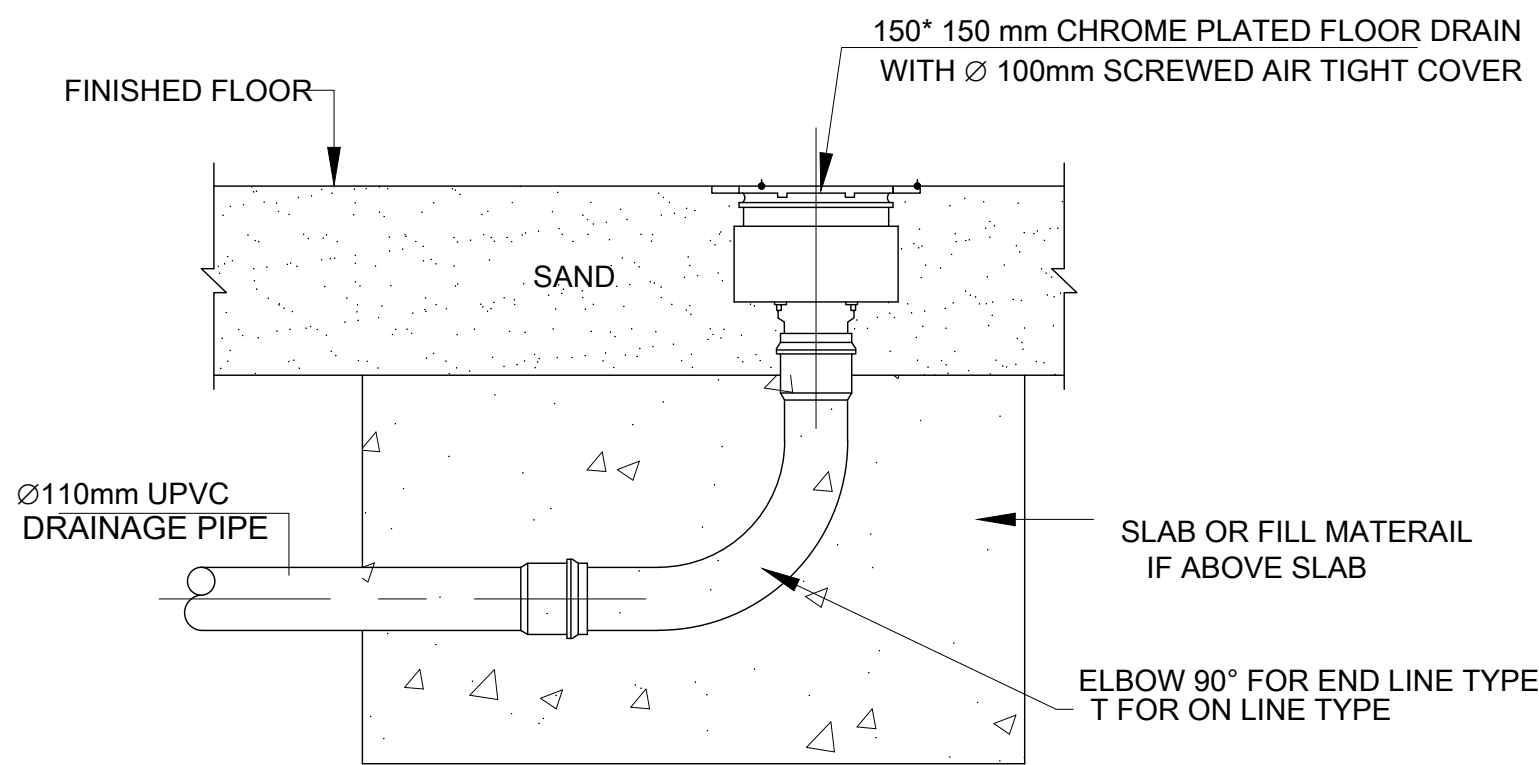
TYPICAL FLOOR DRAIN DETAIL



BRANCH CONNECTION OF DRAINAGE PIPE

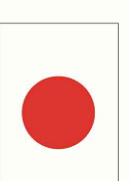


TYPICAL FLOOR TRAP DETAIL



CLEAN OUT DETAIL

Donor:



From the People of Japan

Owner:



Ministry of Planning and Economic Affairs
الوزارة الاقتصادية والتخطيط
مجلس الوزراء

Operator:



Jericho Municipality
بلدية أريحا

Implementing Agency:



United Nations Development Programme
Programme of Assistance to the Palestinian People
مركز الهندسة والتخطيط
center for engineering and planning

Drawn: Baha Al Mur

Checked: Samir Burnat

Approved: Osama Bazzour

File Name: JAP-WELL-OR-M.dwg

Date: 20-09-2021

Scale: 1:25

Size: A1

Sheet: 038/105

Rev: 01

Project: JAP-WELL-OR-M-04

Contract No.: 038/105

Subject: Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Mechanical Operator Room - Sanitary - Drainage Details

Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling

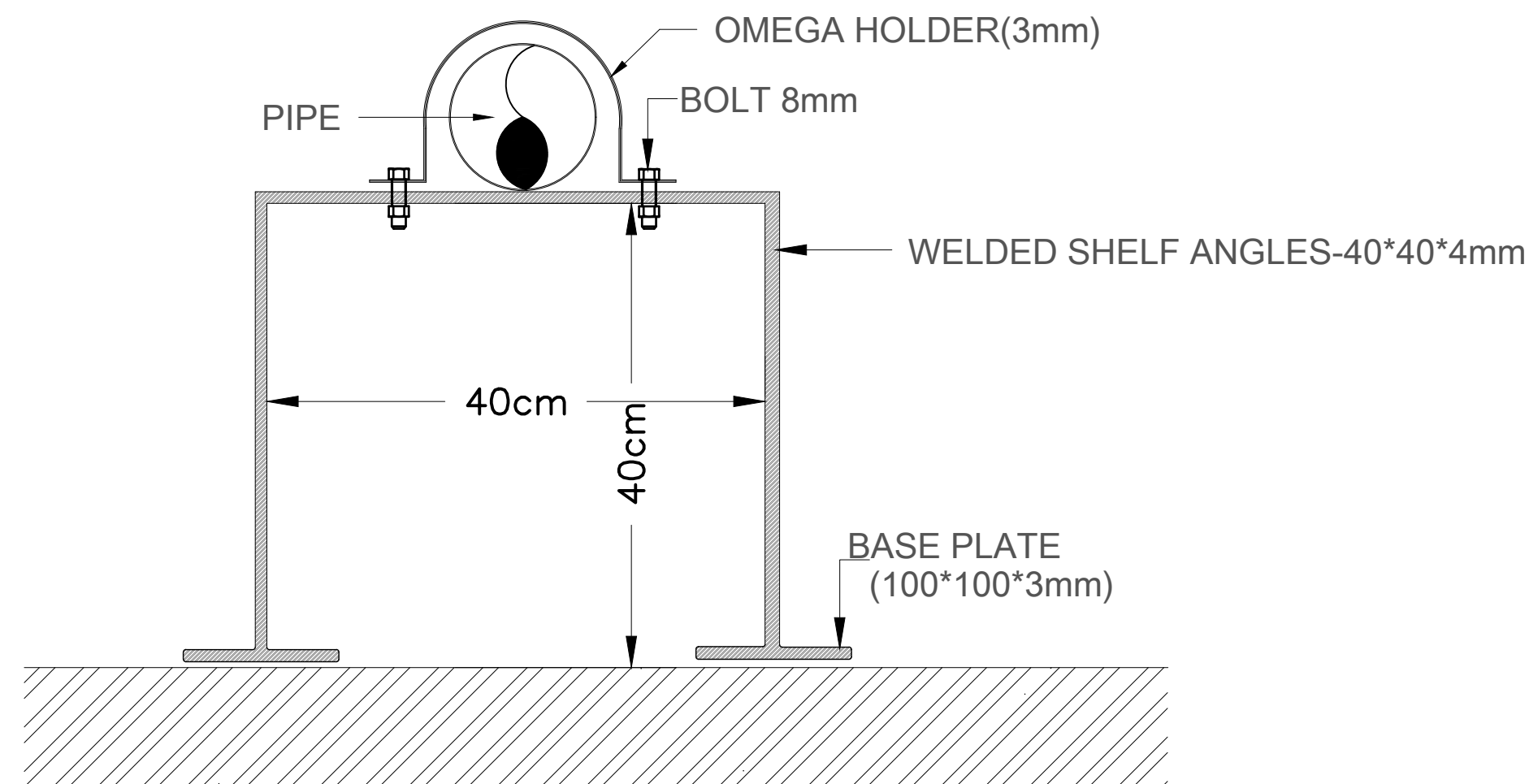
Contract No.: 038/105

Detail Design

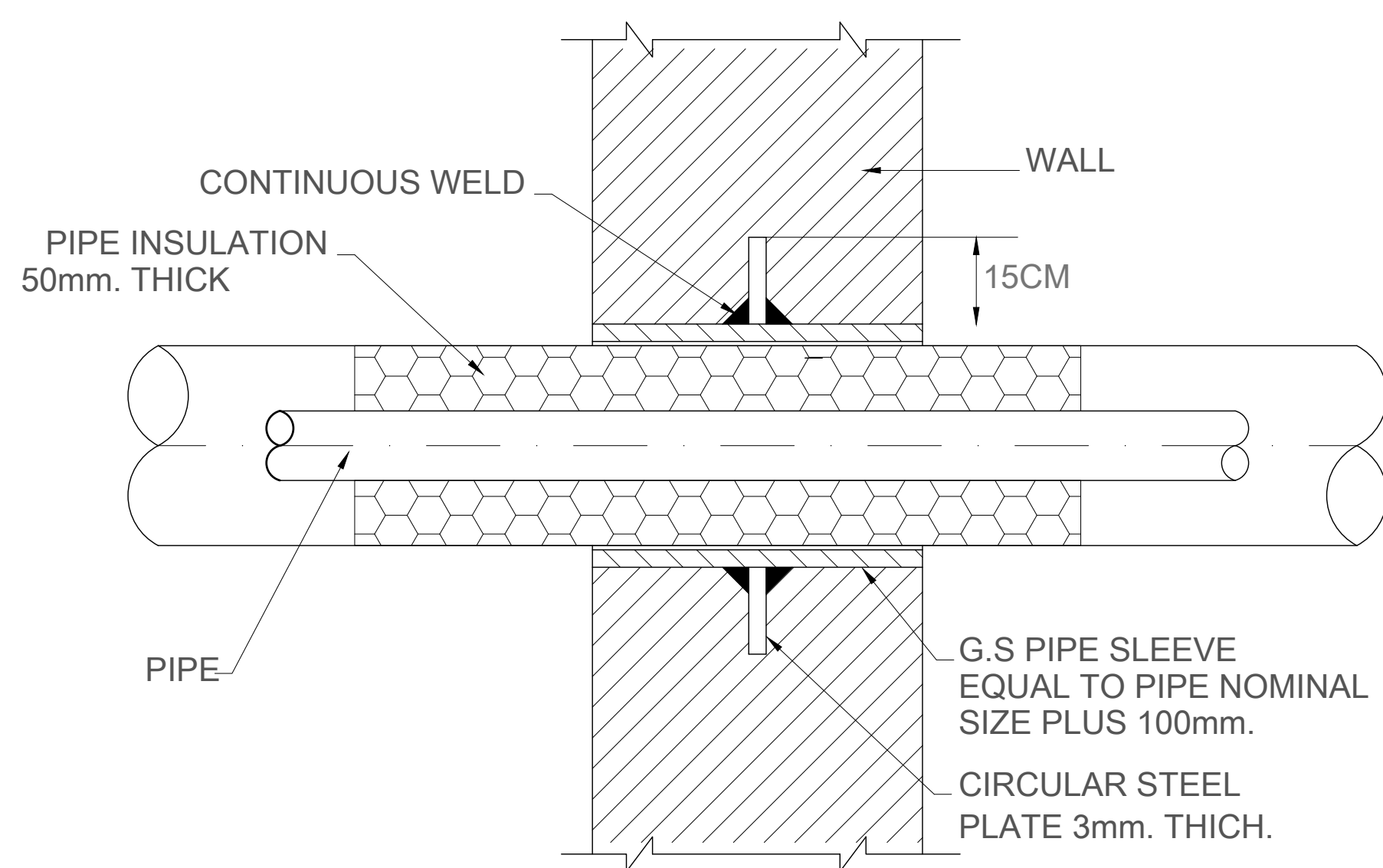
NOTES

- ALL DIMENSIONS ARE IN CENTIMETERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.
- COLD WATER STEEL PIPES TO BE APC/PE COATED.
- HOT WATER STEEL PIPES TO BE INSULATED WITH 6MM INSULATION (K<0.04 W/M.K) WITH VAPOR BARRIER.
- MOUNT EXPOSED PIPES ON SADDLE METAL SUPPORTS.
- BURIED PIPES ARE LOCATED AT 40 CM BELOW GROUND SURROUNDED (20CM) COARSE SAND, AND BACKFILLED WITH COMPACTED SELECTED MATERIAL-TRENCH 40CM-40CM.
- PE PIPES ARE PLACED INSIDE 25MM PE CONDUITS.
- ALL COPPER FITTINGS AND COLLECTORS ARE GIACOMINI OR EQUIVALENT.

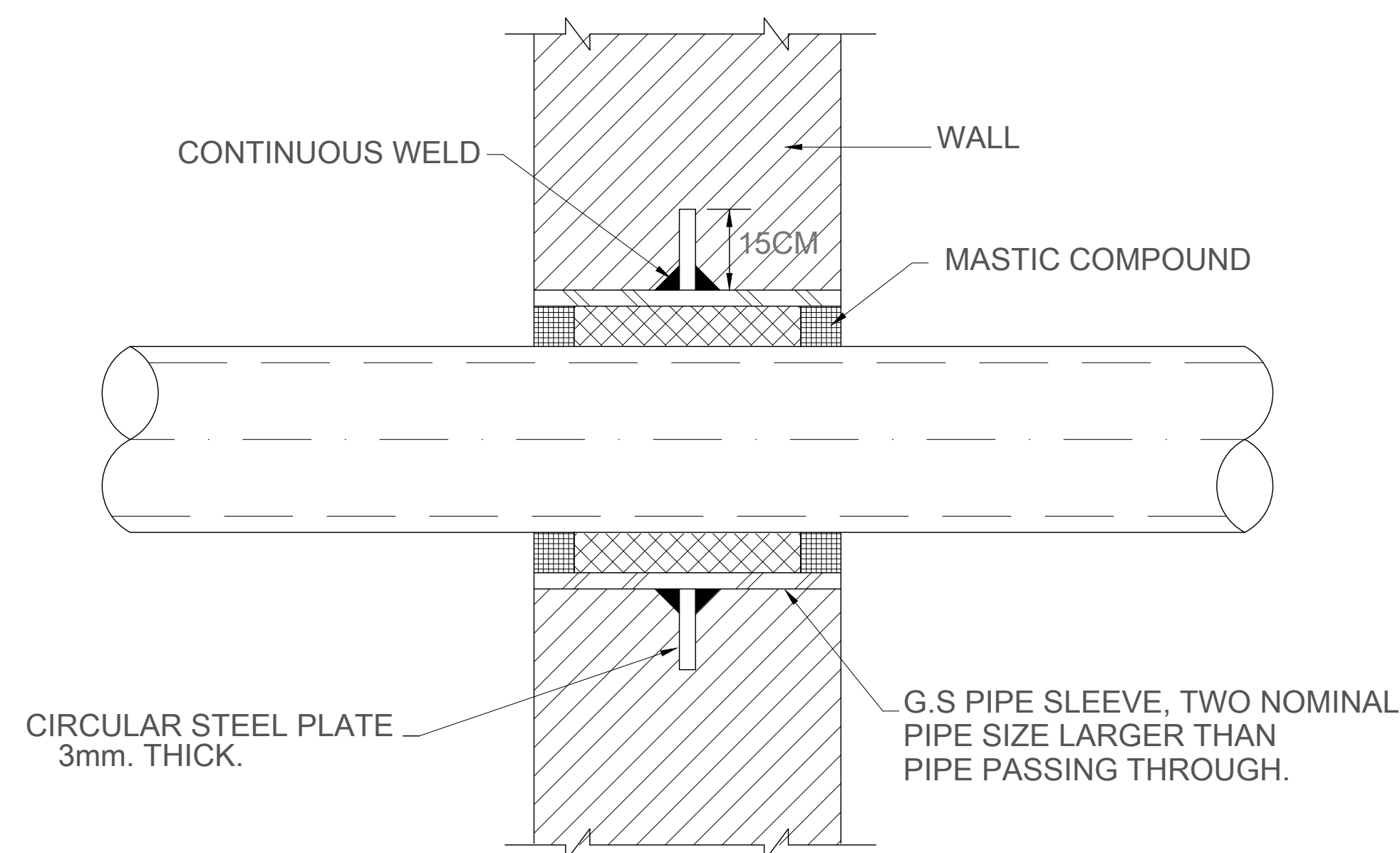
NOTES



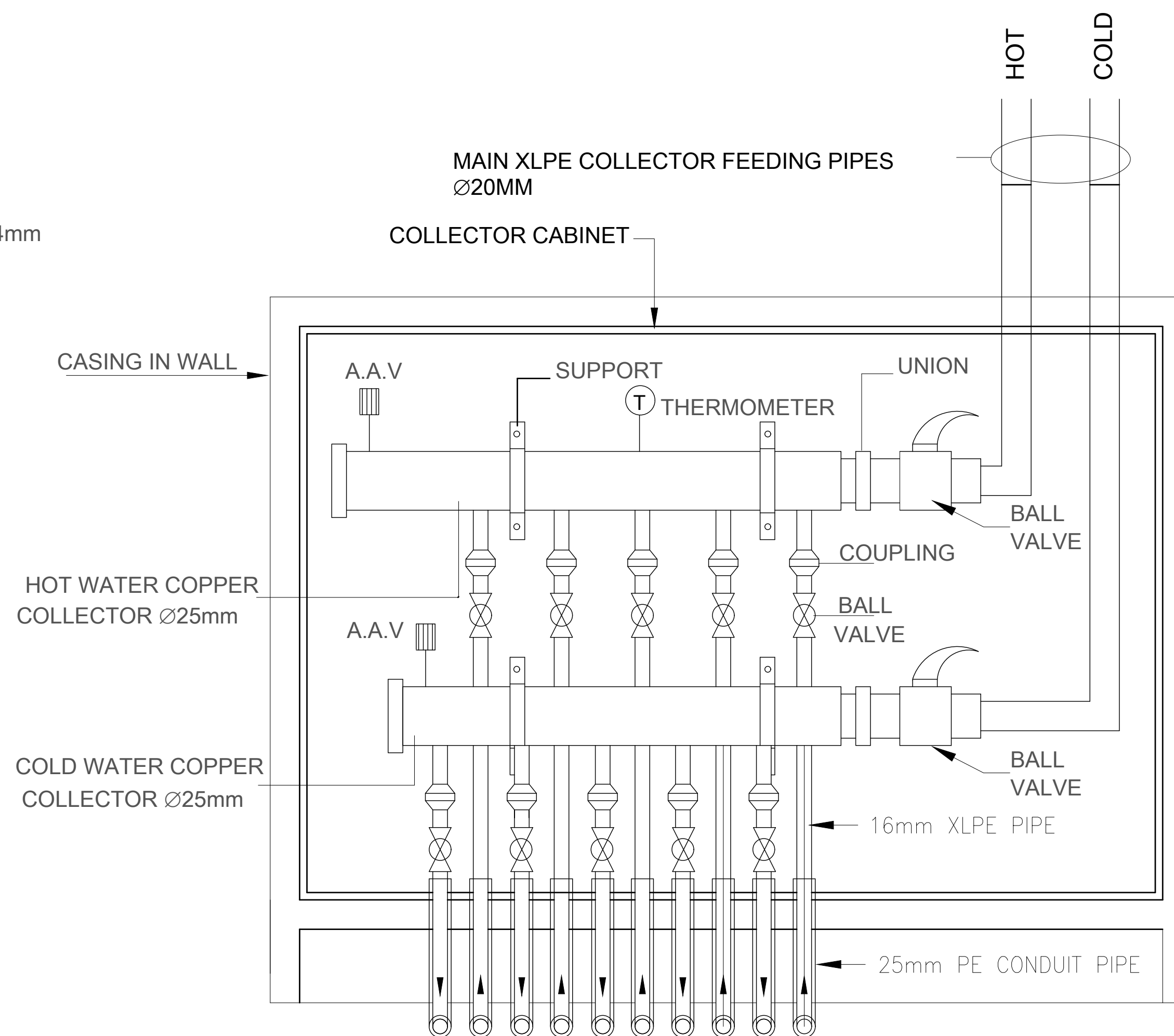
HORIZONTAL PIPING SUPPORT



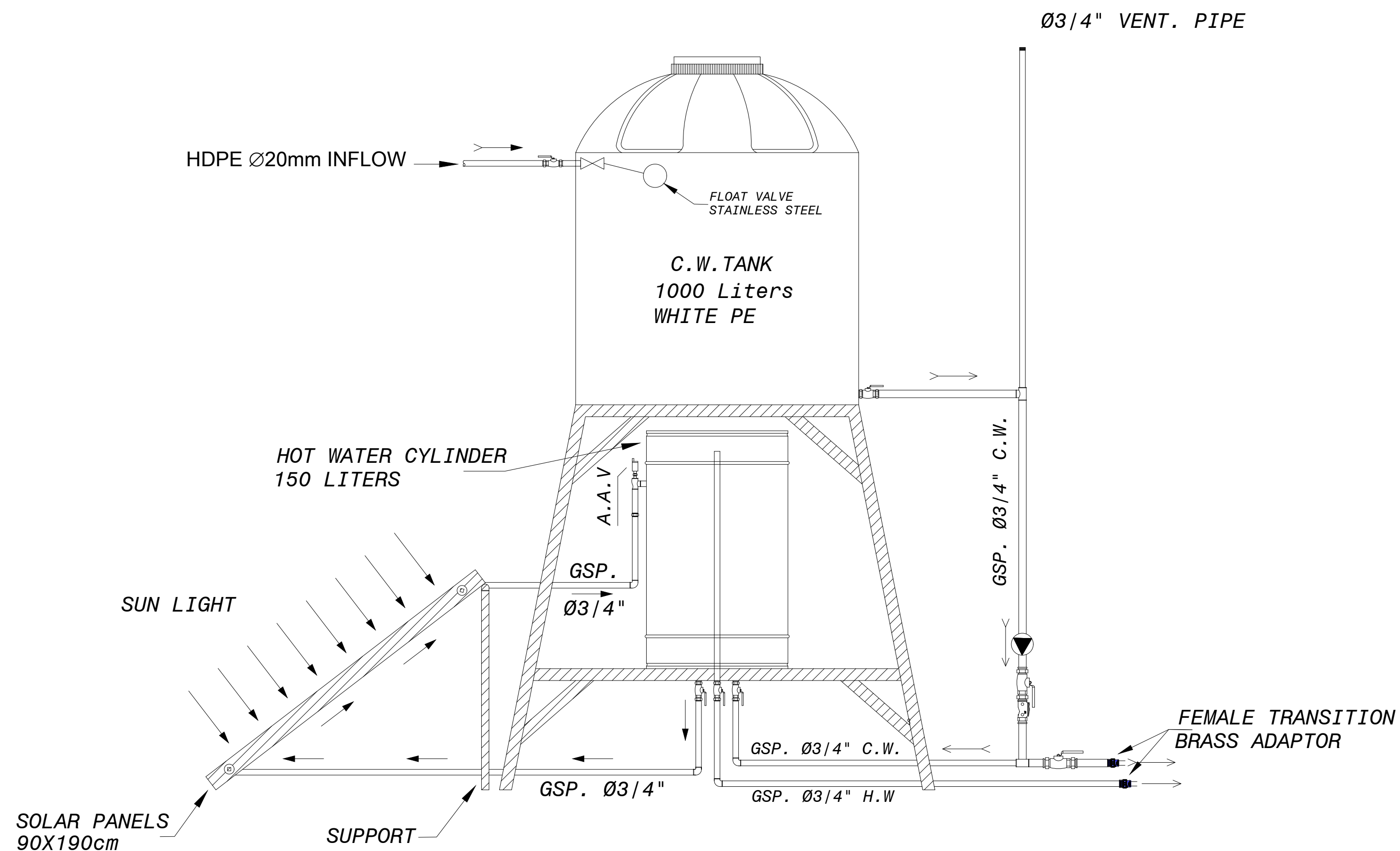
INSULATED PIPE SLEEVE THROUGH WALL



NOT INSULATED PIPE SLEEVE THROUGH WALL.



WATER DISTRIBUTION CABINET



ROOF WATER TANK PIPE CONNECTIONS

- NOTES**
1. ALL DIMENSIONS ARE IN CENTIMETERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.
 2. COLD WATER STEEL PIPES TO BE APC/PE COATED.
 3. HOT WATER STEEL PIPES TO BE INSULATED WITH 6MM INSULATION (K<0.04 WM/K) WITH VAPOR BARRIER.
 4. MOUNT EXPOSED PIPES ON SADDLE METAL SUPPORTS.
 5. BURIED PIPES ARE LOCATED AT 40 CM BELOW GROUND SURROUNDED (20CM) COARSE SAND, AND BACKFILLED WITH COMPACTED SELECTED MATERIAL-TRENCH 40CM*40CM.
 6. PE PIPES ARE PLACED INSIDE 25MM PE CONDUITS.
 7. ALL COPPER FITTINGS AND COLLECTORS ARE GIACOMINI OR EQUIVALENT.

LEGENDS

PE POLYETHYLENE .
XLPE: CROSSLINKED POLYETHYLENE
AAV: AUTOMATIC AIR VENT
GSP: GALVANIZED STEEL PIPE (SCH 40).
CWL: COLD WATER
HW: HOT WATER

Rev.	Date	Description	Drawn	Checked	Approved
2	24.08.2021	Draft Detailed Design	BM	OB	BA
1	01.08.2021	Draft Detailed Design	BM	OB	BA

Project: Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling

Contract No.:

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Mechanical

Operator Room - Sanitary - Water Details

Donor: **Ministry of Planning and Economic Development**
Ministry of Planning and Economic Development
Ministry of Planning and Economic Development

Owner: **Jericho Municipality**
Jericho Municipality
Jericho Municipality

Implementing Agency: **Center for Engineering and Planning**
Center for Engineering and Planning
Center for Engineering and Planning

Operator: **United Nations Development Programme**
United Nations Development Programme
United Nations Development Programme

Contract No.: **039/105/01**
039/105/01
039/105/01

Scale: **1:25**
1:25
1:25

Date: **20-09-2021**
20-09-2021
20-09-2021

File Name: **JAI-WELL-OR-M.dwg**
JAI-WELL-OR-M.dwg
JAI-WELL-OR-M.dwg

Drawn: **Bahaa Al Mur**
Bahaa Al Mur
Bahaa Al Mur

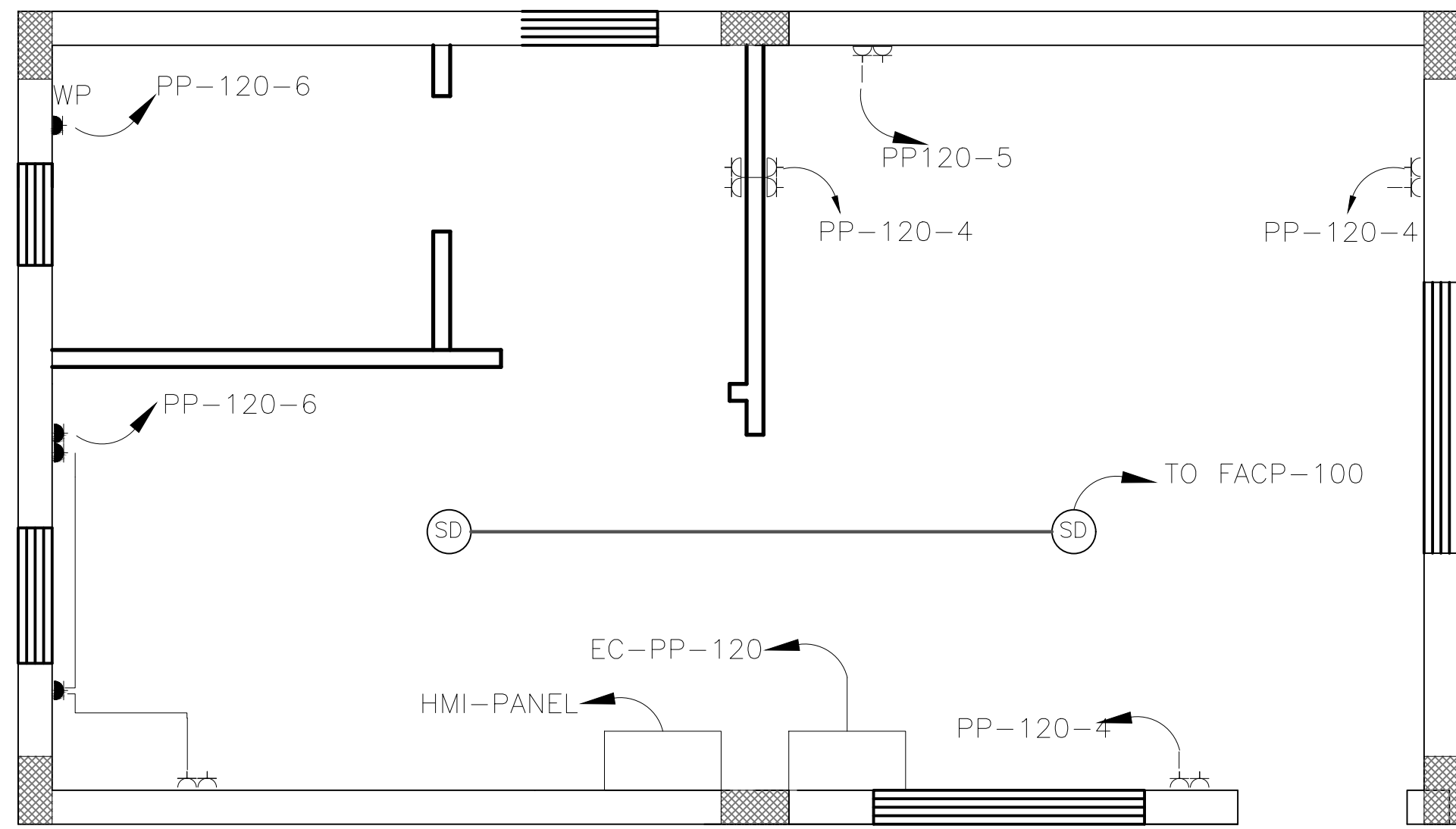
Checked: **Osama Bazzour**
Osama Bazzour
Osama Bazzour

Approved: **Osama Bazzour**
Osama Bazzour
Osama Bazzour

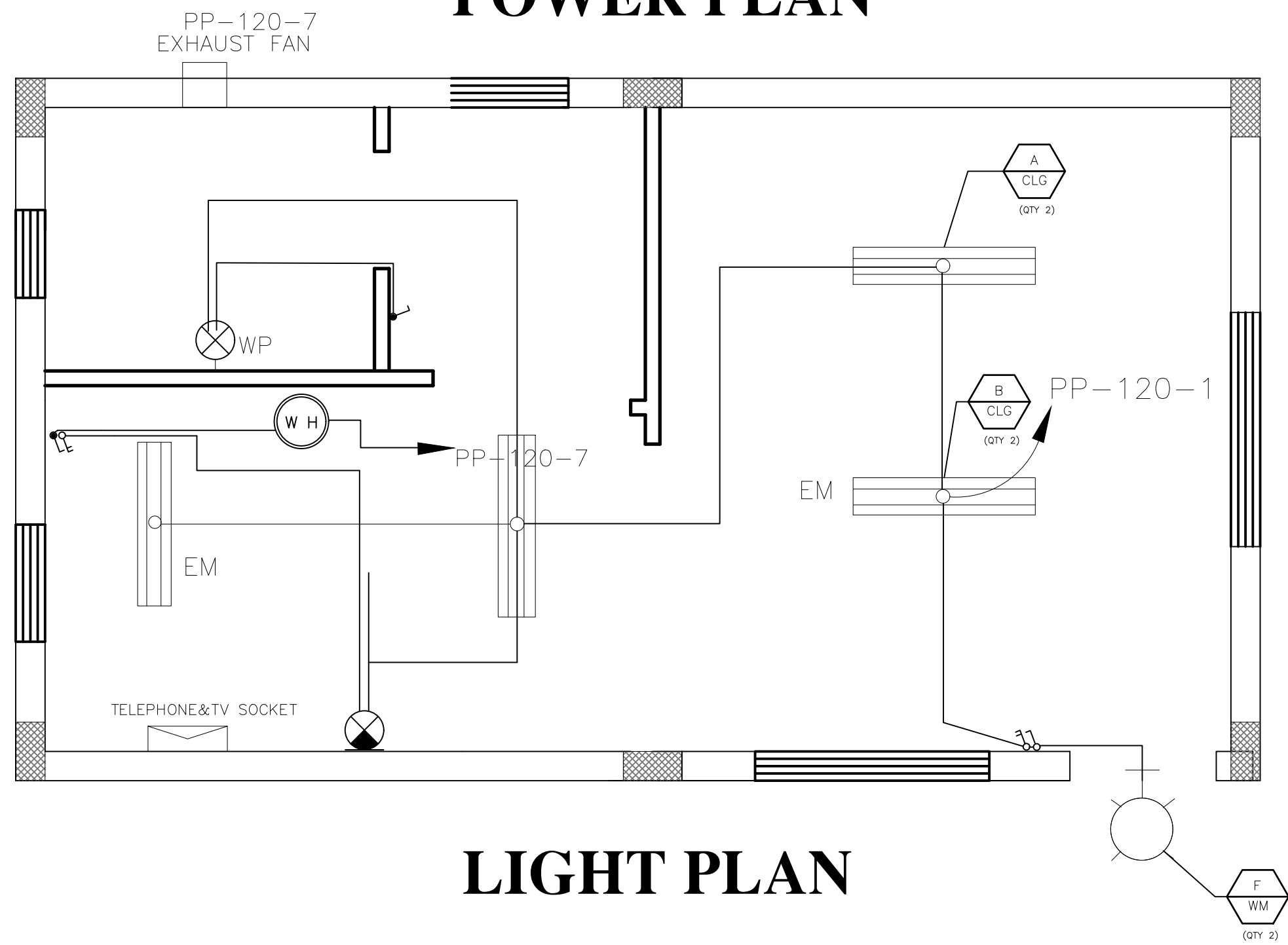
Project: **Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling**
Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling
Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling

Subject: **Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Mechanical**
Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Mechanical
Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Mechanical

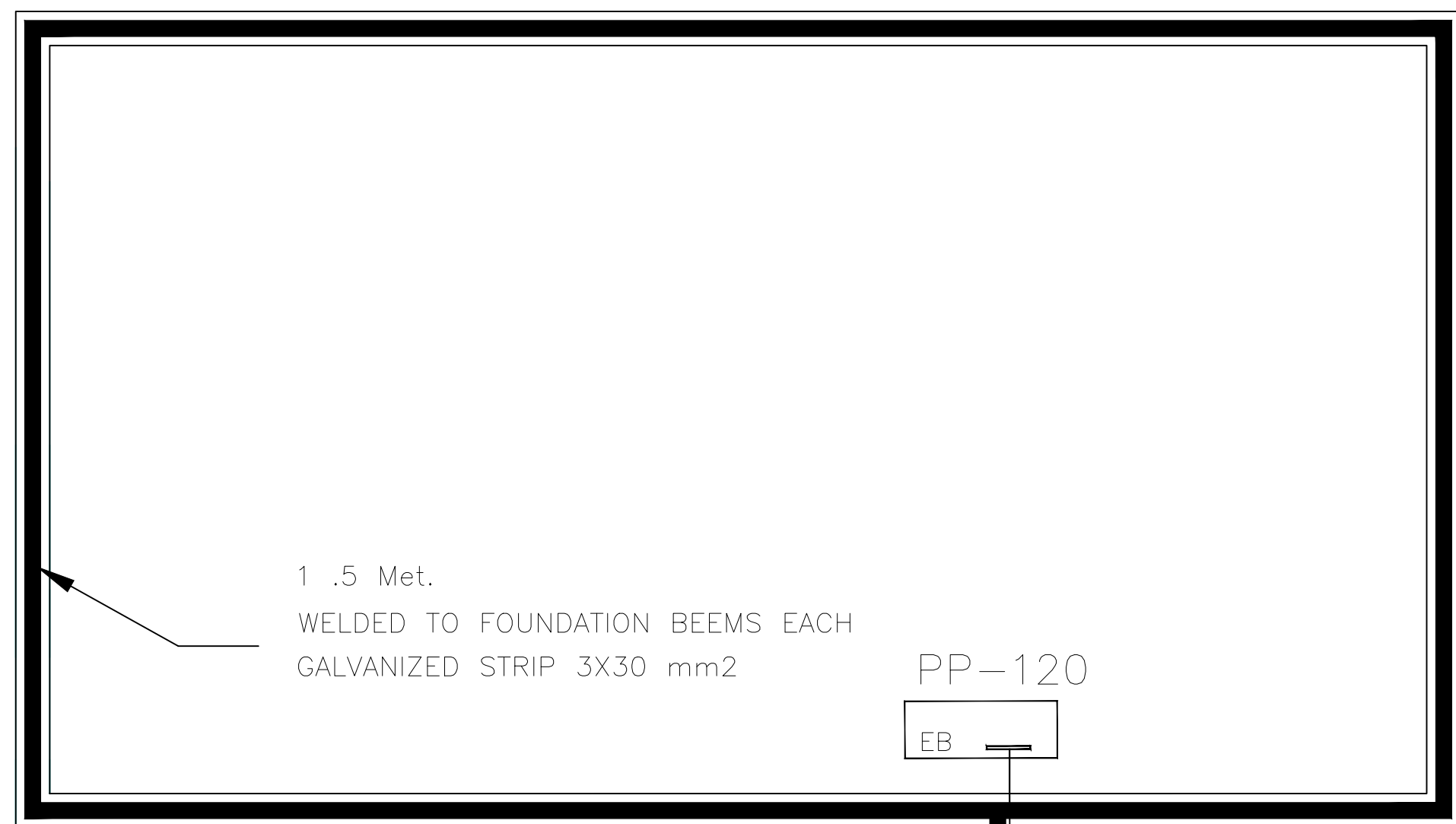
Operator Room - Sanitary - Water Details



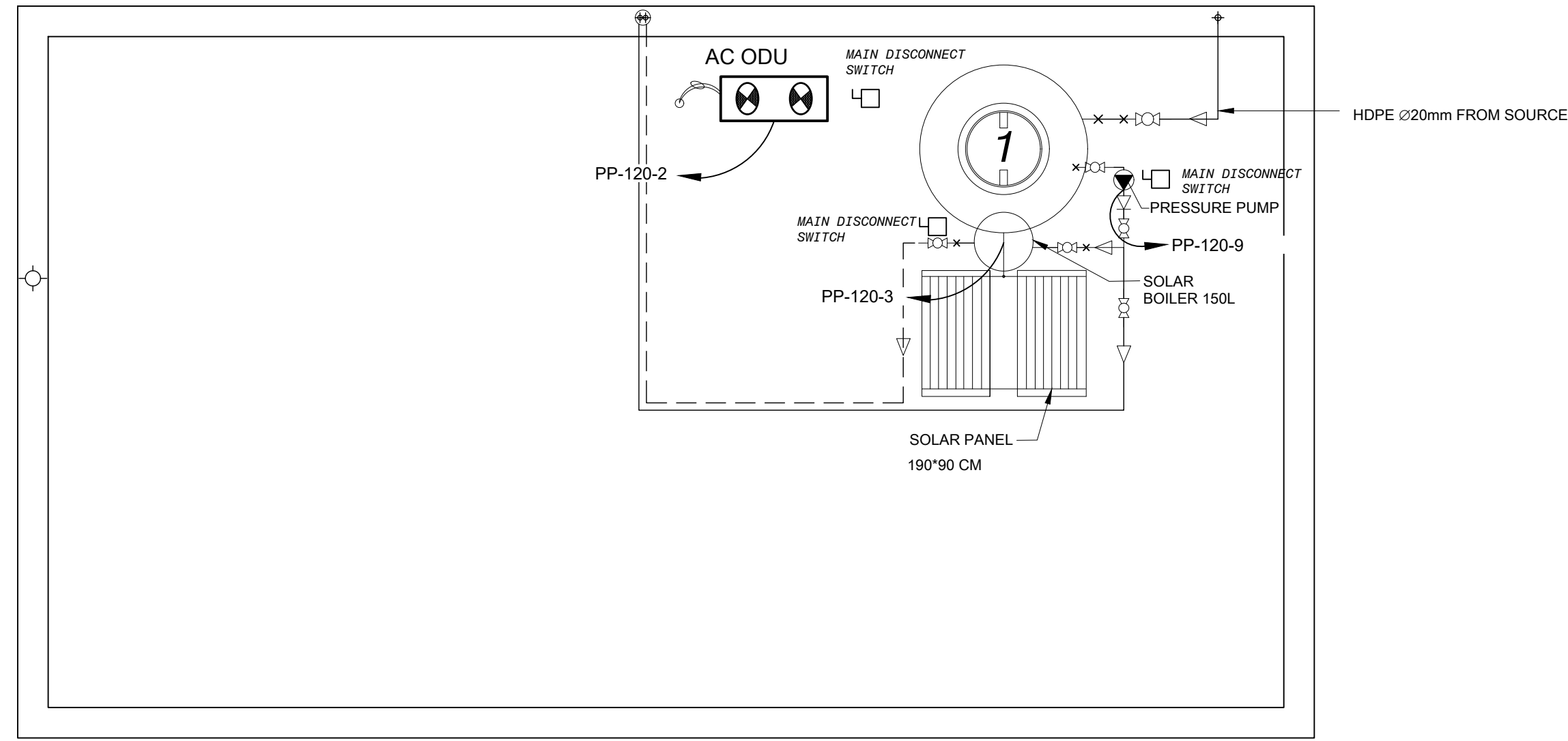
POWER PLAN



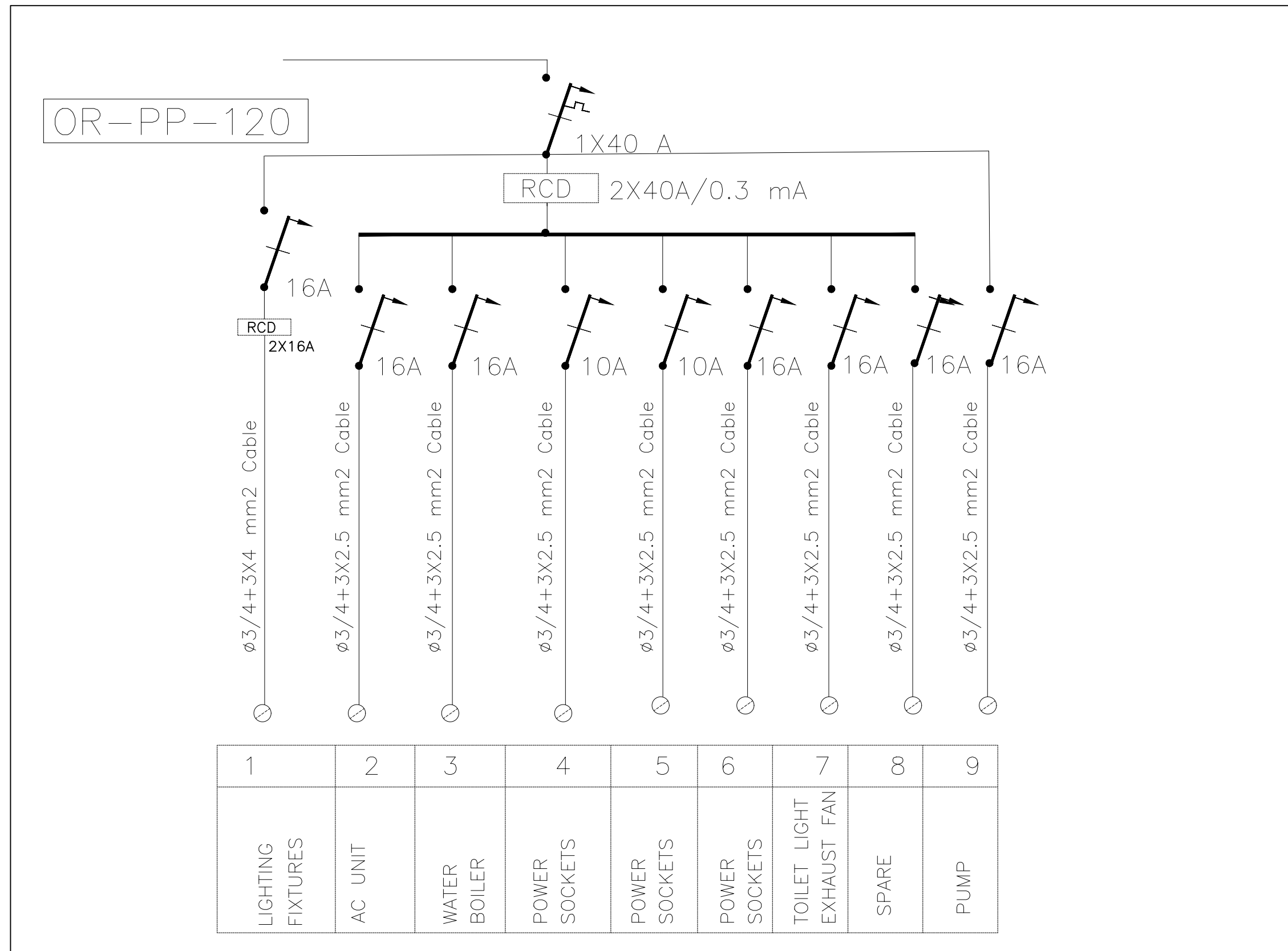
LIGHT PLAN



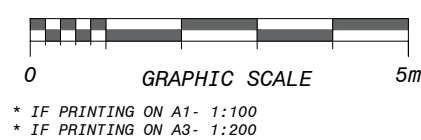
EARTHING SYSTEM



POWER ROOF PLAN



OR-PP-120\SLD



Designed: A. Jamal

Drawn: A. Jamal

Checked: Osama Bazzour

File Name: JAIIP-WELL-OR-E.dwg

Date: 20-09-2021

Drawing No: JAIIP-W-B-OR-E-01

Approved: Bassam Abu Zahra

Scale: N.T.S

Size: A1

Rev: 40/105

Center for Engineering and Planning

Ramallah, Palestine

A. Breen - Al Madan St. Against Al Watanyat Towers

P.O. Box 301

Implementing Agency:

United Nations Development Programme

Programme of Assistance to the Palestinian People

Jericho Municipality

Owner:

Ministry of Planning

Jericho Municipality

Donor:

Ministry of Planning

Jericho Municipality

Contract No.:

Subject: Construction of Deep Well and Transmission Pipeline for JAIP

Well Site - Building Details

Operator Room - Electrical Details

Notes:

1. BRANCH CIRCUIT FOR LIGHTING AND POWER LOADS SHALL BE 4mm2 CONDUCTOR SIZE AND 3/4" CONDUITS.

2. PANEL BOARDS, RECEPTACLES, SWITCHES AND JUNCTION BOXES SHALL BE MOUNTED AT 1.5 mm2 A.F.F

Legend:

Rev: 1

Date: 24.08.2021

Description: Draft Detailed Design

Drawn: AJ

Checked: AJ

Approved: BA

Rev: 2

Date: 01.08.2021

Description: Draft Detailed Design

Drawn: AJ

Checked: AJ

Approved: BA

Rev: 1

Date: 24.08.2021

Description: Draft Detailed Design

Drawn: AJ

Checked: AJ

Approved: BA

Rev: 2

Date: 01.08.2021

Description: Draft Detailed Design

Drawn: AJ

Checked: AJ

Approved: BA

Rev: 1

Date: 24.08.2021

Description: Draft Detailed Design

Drawn: AJ

Checked: AJ

Approved: BA

Rev: 2

Date: 01.08.2021

Description: Draft Detailed Design

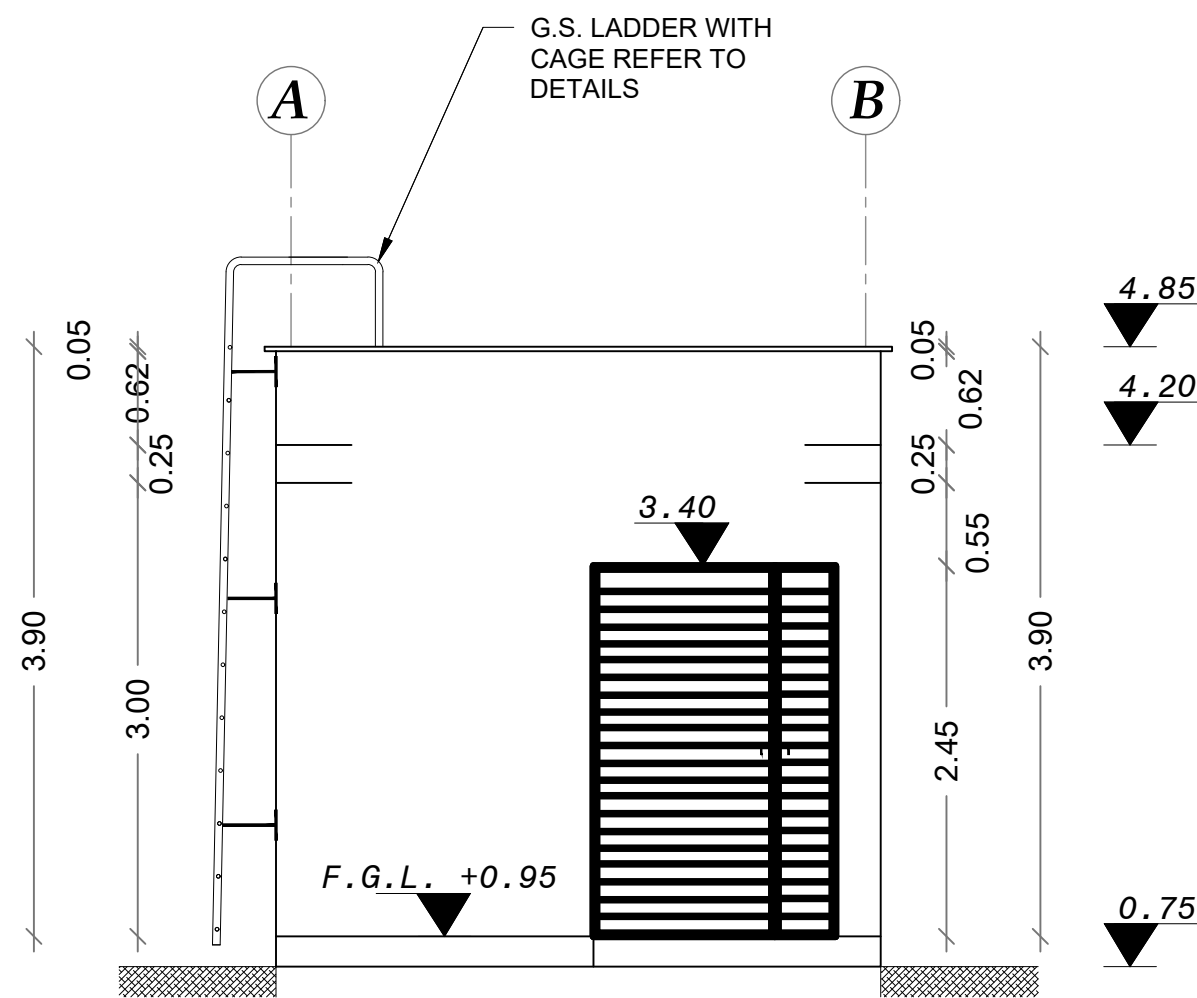
Drawn: AJ

Checked: AJ

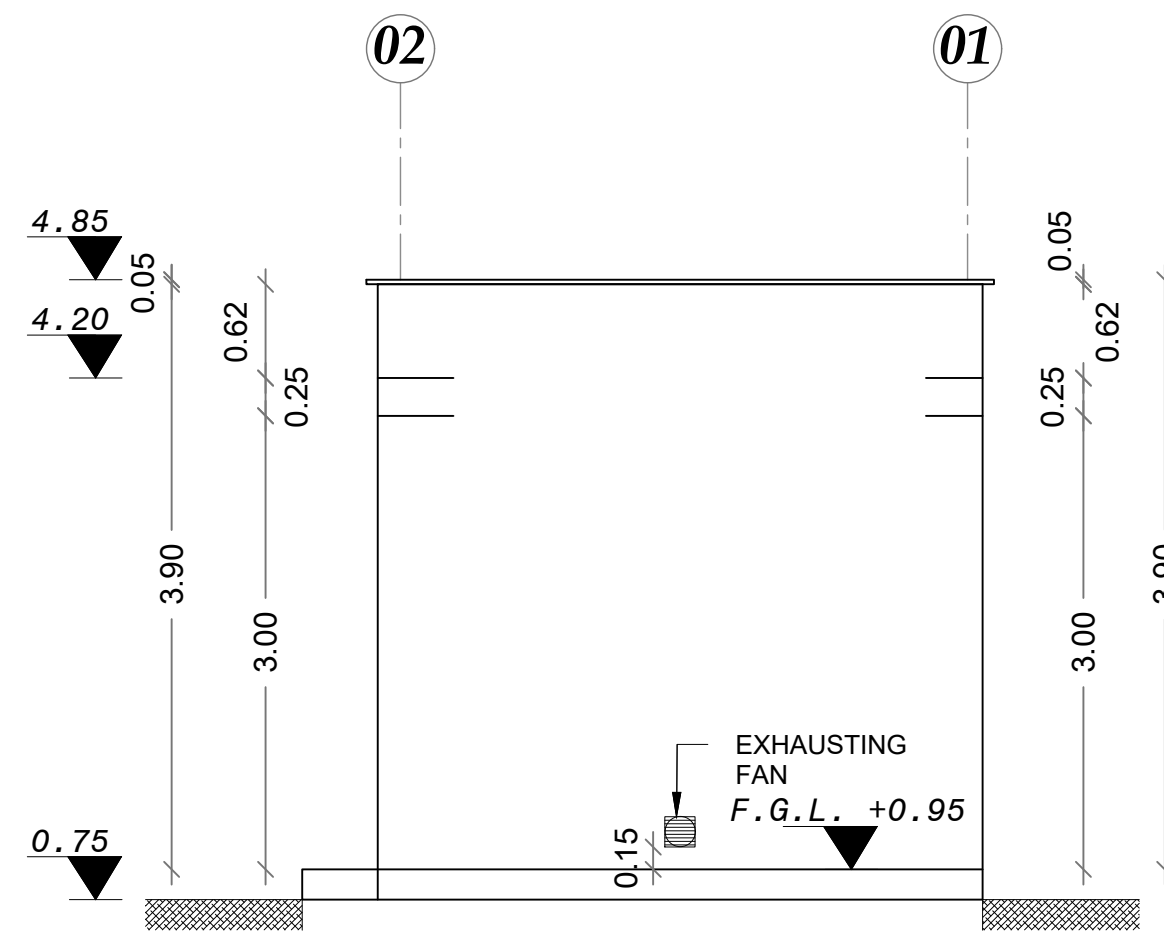
Approved: BA

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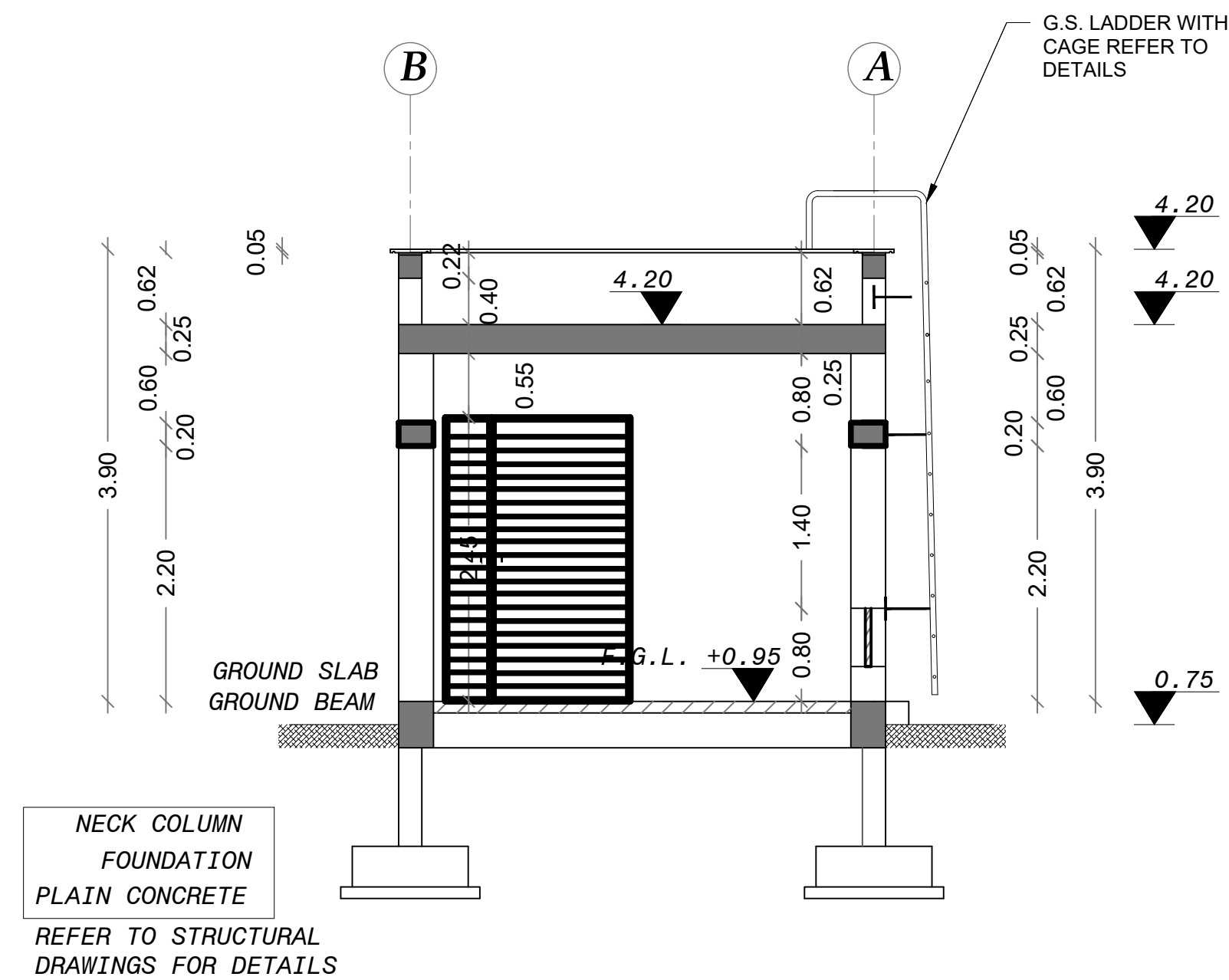
2. 1F PRINTING ON A3- 1:200



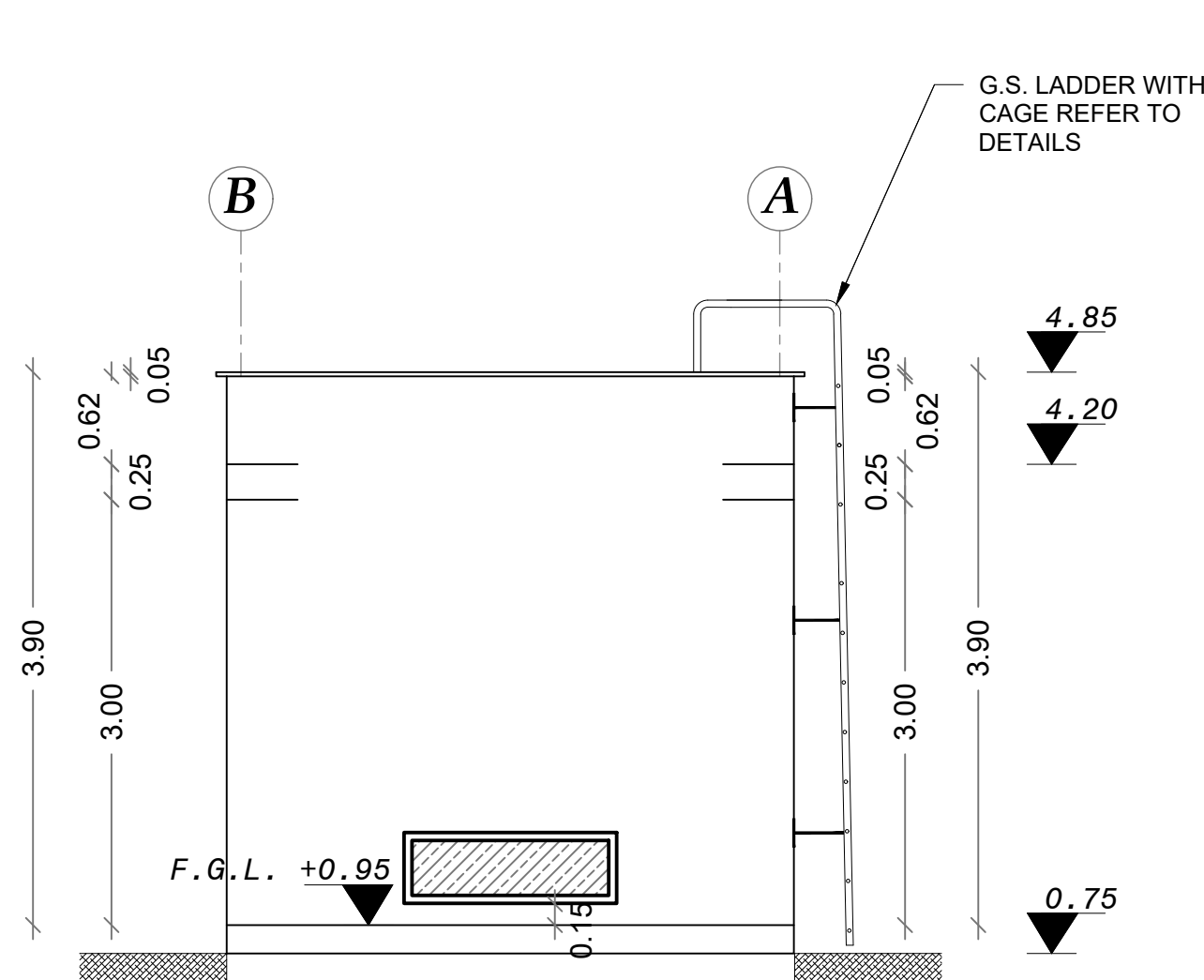
ELEVATION NO.1



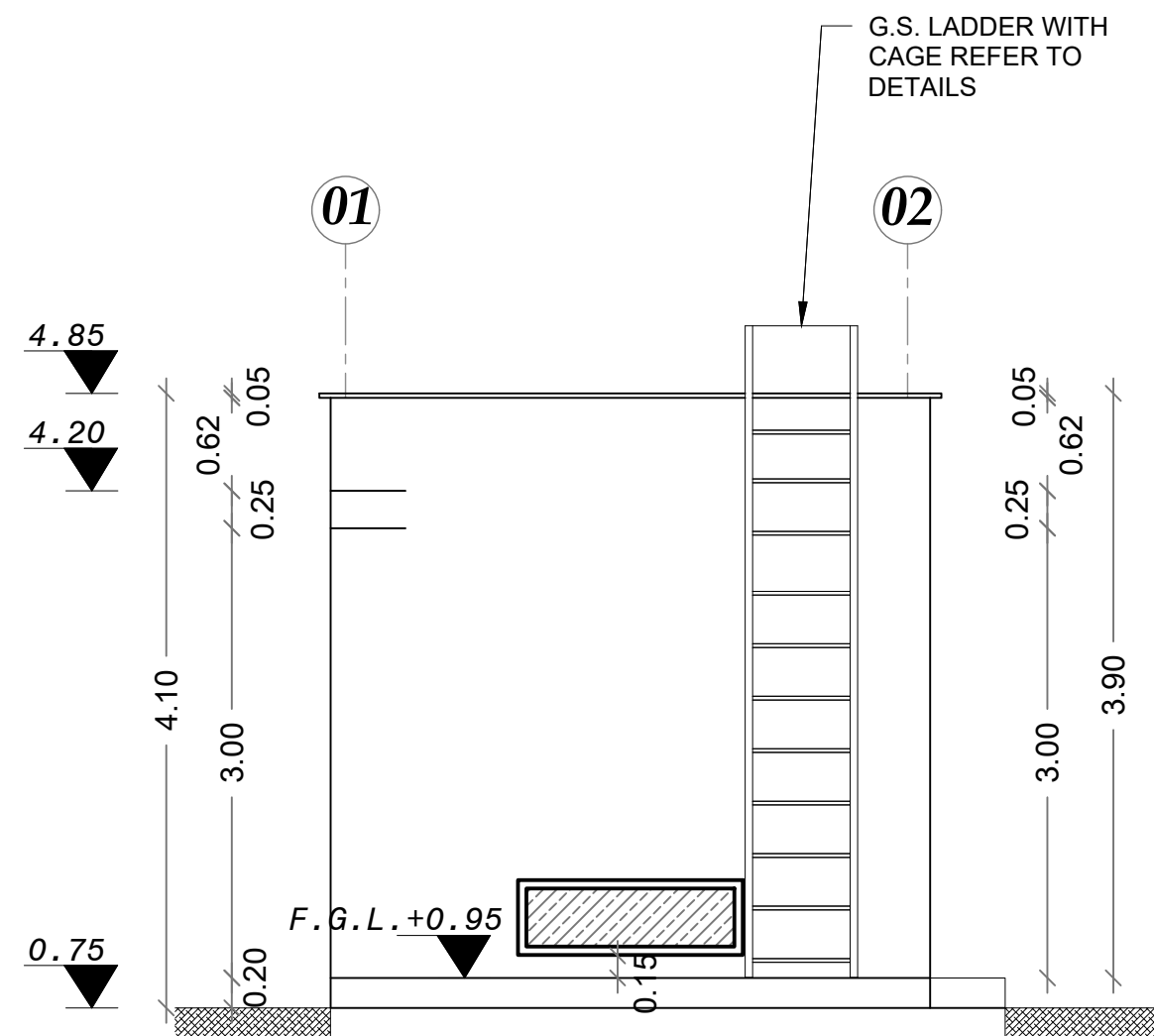
ELEVATION NO.3



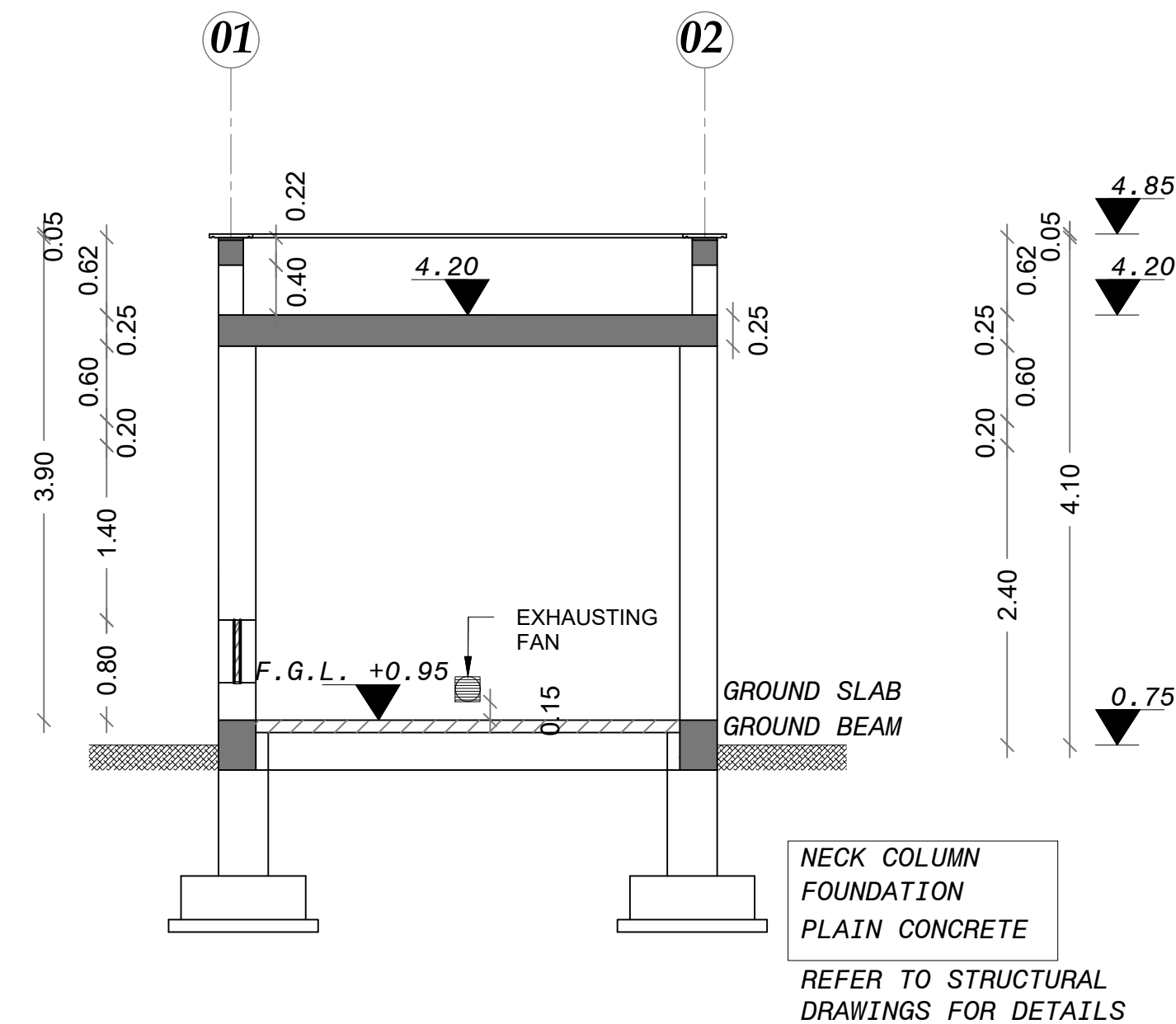
SECTION A-A



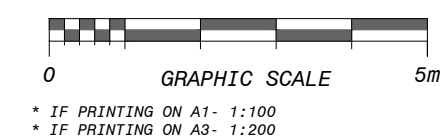
ELEVATION NO.2



ELEVATION NO.4



SECTION B-B



Donor

Ministry of Planning
Jericho Municipality

Owner

Ministry of Planning
Jericho Municipality

Operator

Ministry of Planning
Jericho Municipality

Implementing Agency

Ministry of Planning
Jericho Municipality

Drawn: Bahaa Al Mur

Checked: Osama Bazzour

File Name: JAIIP-WELL-CRA.dwg

Date: 24-08-2021

Scale: 1:50

Sheet: 01

Approved: Osama Bazzour

Project: JAIIP-WELL-CRA-02

Size: A1

2021-09-19

Center for Engineering and Planning
Ramallah, Palestine
Al Bireh - Al Meidan St. Agnina Al Watanyat Towers
P.O. Box 301

FINAL
2021-09-19

United Nations Development Programme
Programme of Assistance to the Palestinian People
Jericho Municipality

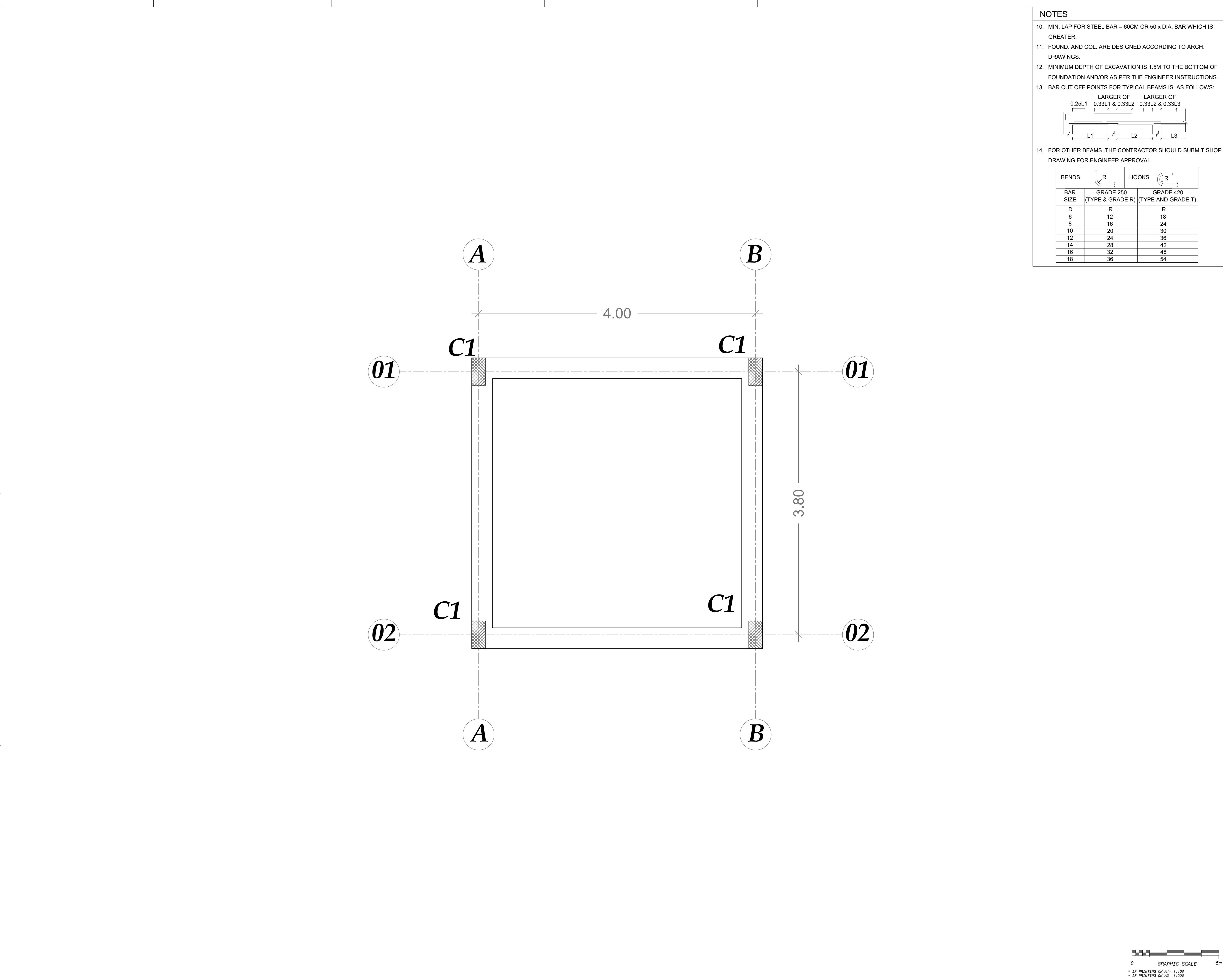
Ministry of Planning
Jericho Municipality

NOTES

- ALL DIMENSIONS ARE IN METERS. EXCEPT WHERE OTHERWISE SHOWN OR NOTED.
- IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWING FOR ENGINEERS BEFORE START WORKS.
- EXISTING GROUND ELEVATION AT MAIN GATE = 239.75m = +0.00

Rev.	Date	Description	Drawn	Checked	Approved
2	24.08.2021	Draft Detailed Design	BM	OB	BA
1	01.08.2021	Draft Detailed Design	BM	OB	BA

Project	Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling
Contract No.:	
Subject	Detail Design Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil Chlorination Room - Elevations & Sections



NOTES

10. MIN. LAP FOR STEEL BAR = 60CM OR 50 x DIA. BAR WHICH IS GREATER.

11. FOUND. AND COL. ARE DESIGNED ACCORDING TO ARCH. DRAWINGS.

12. MINIMUM DEPTH OF EXCAVATION IS 1.5M TO THE BOTTOM OF FOUNDATION AND/OR AS PER THE ENGINEER INSTRUCTIONS.

13. BAR CUT OFF POINTS FOR TYPICAL BEAMS IS AS FOLLOWS:

LARGER OF 0.25L1 0.33L1 & 0.33L2 0.33L2 & 0.33L3

14. FOR OTHER BEAMS THE CONTRACTOR SHOULD SUBMIT SHOP DRAWING FOR ENGINEER APPROVAL.

BENDS	GRADE 250 (TYPE & GRADE R)	GRADE 420 (TYPE AND GRADE T)
D	R	R
6	12	18
8	16	24
10	20	30
12	24	36
14	28	42
16	32	48
18	36	54

Donor:

Ministry of Planning and Economic Development
State of Palestine

Operator:

Jericho Municipality

Owner:

From the People of Japan

Implementing Agency:

United Nations Development Programme
Programme of Assistance to the Palestinian People
مركز المساعدة الإنمائية للأمم المتحدة

Drawn:

Bahaa Al Mur

Approved:

Bassam Abu Zahra

Checked:

Osama Bazzour

File Name:

JAIIP-WELL-CR-C.dwg

Date:

24-08-2021

Scale:

1: 25

Size:

A1

Drawing No:

JAIIP-W-CR-C-01

Sheet:

043/105

Rev:

01

Project:

Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

Contract No.:

Subject:

Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil
Chlorination Room - Columns Plan

NOTES

1. ALL DIMENSIONS ARE IN METERS EXCEPT WHERE OTHERWISE SHOWN OR NOTED.

2. IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWING FOR ENGINEERS BEFORE START WORKS

3. ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PERTINENT ARCHITECTURAL, ELECTRICAL, MECHANICAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS.

4. IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.

5. CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.

6. DESIGN CODE ACI 318M-14.

NOTES

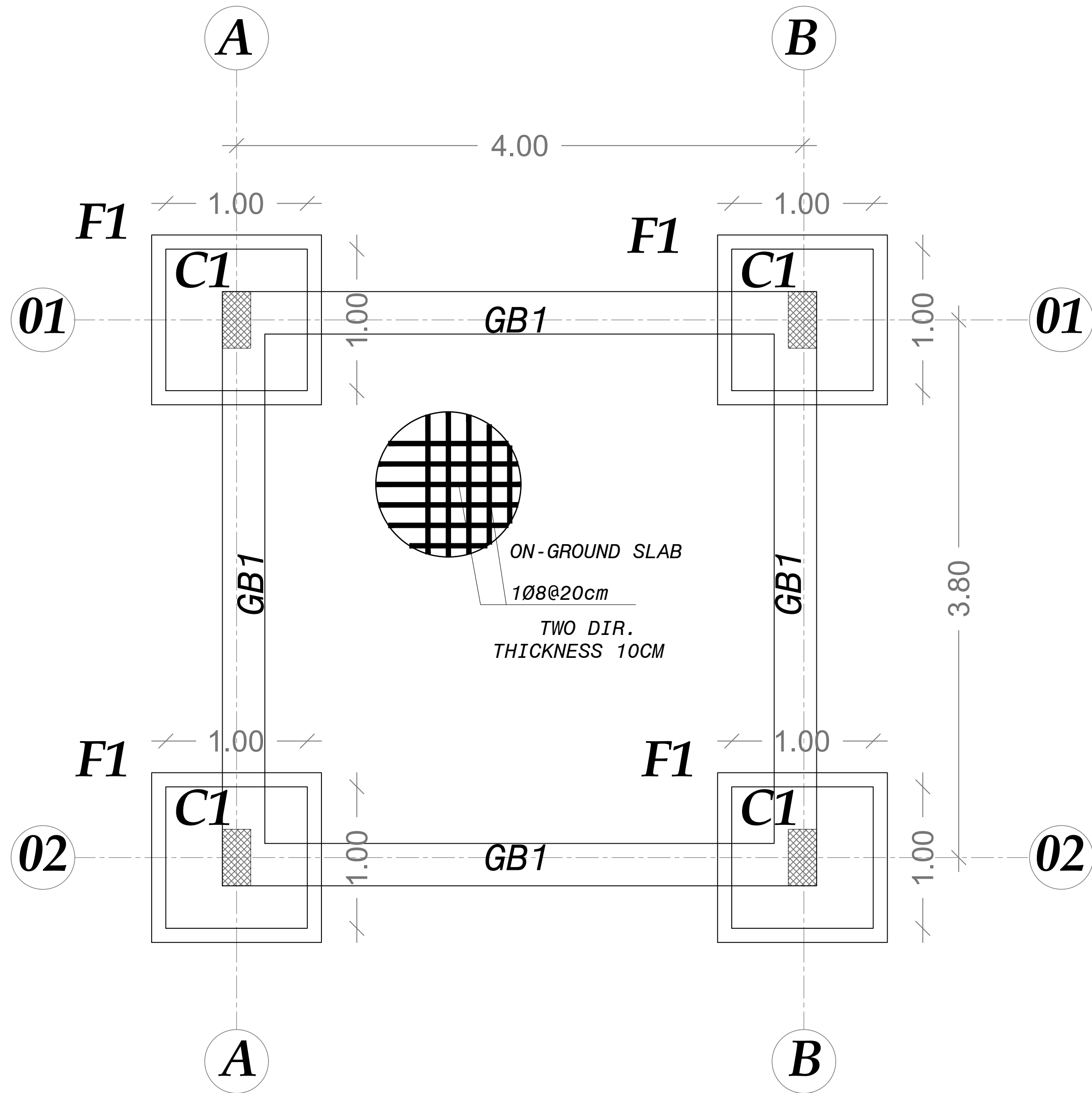
7. STEEL BARS PROVIDED BY CONTRACTOR (G420) FY=420 MPA.

8. CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH AS:

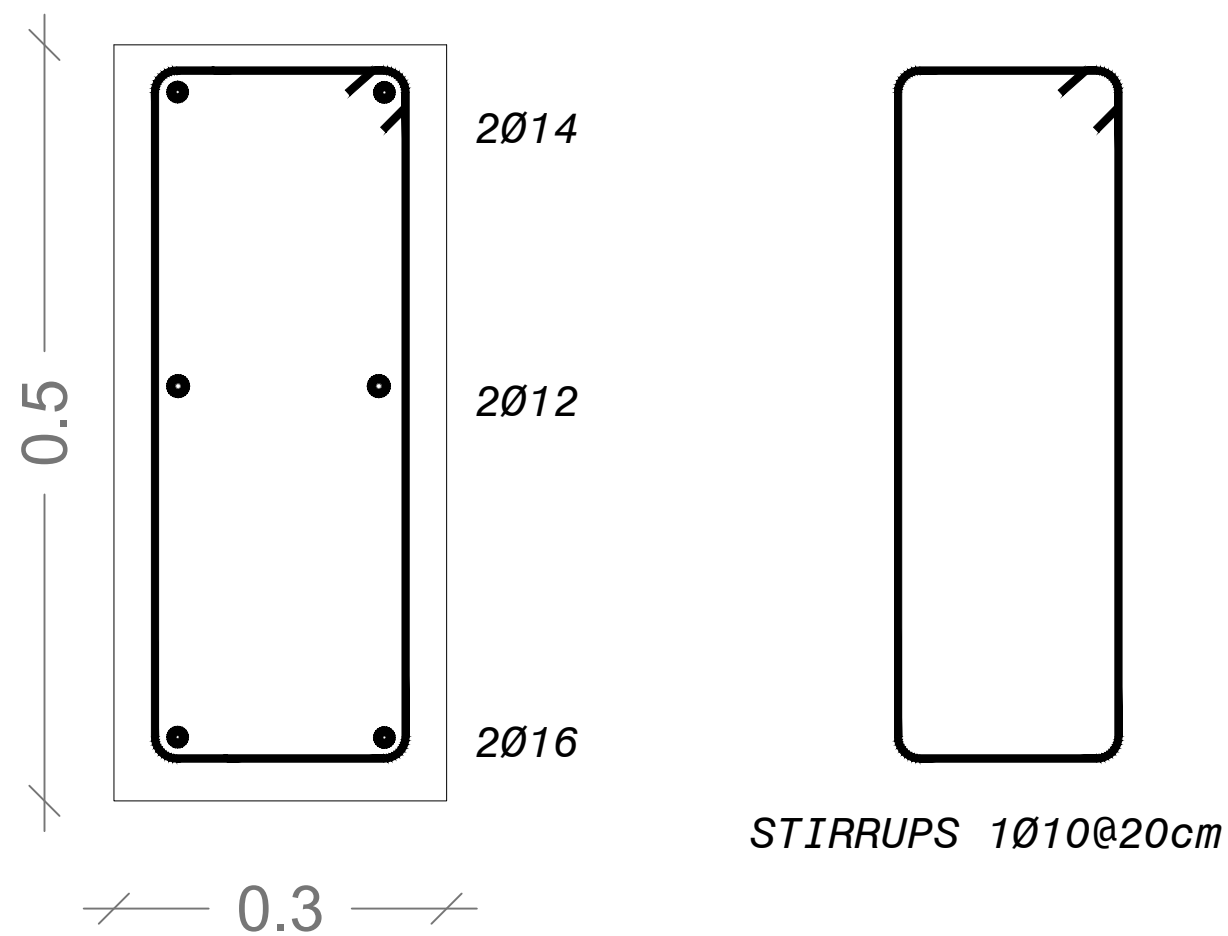
- FOR COLUMNS B300
- FOR FOUNDATION & SLABS B300
- FOR STAIRS B300
- FOR POST,LINTELS,CANOPIES ALL SECONDARY ELEMENTS B250
- FOR PLAIN CONCRETE B200

9. STEEL COVERS:

- FOR FOUNDATIONS (CAST AGAINST SOL) =7.5 CM
- (FOR PROTECTED CONCRETE) =5.0 CM
- FOR COLUMNS =4.0 CM
- FOR SLABS =2.5 CM
- FOR BEAMS =4.0 CM



GROUND BEAM PLAN
Scale 1:50



GROUND BEAM DETAILS (GB1)
Scale 1:10

NOTES

10. MIN. LAP FOR STEEL BAR = 60CM OR 50 x DIA. BAR WHICH IS GREATER.

11. FOUND. AND COL. ARE DESIGNED ACCORDING TO ARCH. DRAWINGS.

12. MINIMUM DEPTH OF EXCAVATION IS 1.5M TO THE BOTTOM OF FOUNDATION AND/OR AS PER THE ENGINEER INSTRUCTIONS.

13. BAR CUT OFF POINTS FOR TYPICAL BEAMS IS AS FOLLOWS:

LARGER OF 0.25L1

LARGER OF 0.33L2 & 0.33L2

LARGER OF 0.33L2 & 0.33L3

L1

L2

L3

14. FOR OTHER BEAMS THE CONTRACTOR SHOULD SUBMIT SHOP DRAWING FOR ENGINEER APPROVAL.

BENDS		HOOKS	
BAR SIZE	GRADE 250 (TYPE & GRADE R)	GRADE 420 (TYPE AND GRADE T)	
D	R	R	
6	12	18	
8	16	24	
10	20	30	
12	24	36	
14	28	42	
16	32	48	
18	36	54	

NOTES

7. STEEL BARS PROVIDED BY CONTRACTOR (G420) F_y=420 MPA.

8. CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH AS:

FOR COLUMNS

B300

FOR FOUNDATION & SLABS

B300

FOR STAIRS

B300

FOR POST,LINTELS CANOPIES ALL SECONDARY ELEMENTS B250

B200

FOR PLAIN CONCRETE

B200

9. STEEL COVERS:

FOR FOUNDATIONS (CAST AGAINST SOL) =7.5 CM

FOR PROTECTED CONCRETE

=5.0 CM

FOR COLUMNS

=4.0 CM

FOR SLABS

=2.5 CM

FOR BEAMS

=4.0 CM

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6. DESIGN CODE ACI 318M-14.

Rev.	Date	Description	Drawn	Checked	Approved
2	24.08.2021	Draft Detailed Design	BM	OB	BA
1	01.08.2021	Draft Detailed Design	BM	OB	BA

Project

Support to Infrastructure Works for Phase II:
Jericho Agro-Industrial Park and Deep Water Well Drilling

Contract No.:

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil

Operator Room - Footings Plan

Donor:

From the People of Japan

Ministry of International Cooperation and External Relations

Owner:

Jericho Municipality

Jericho Municipality

Implementing Agency:

United Nations Development Programme

Programme of Assistance to the Palestinian People

مركز الهندسة والتخطيط

Drawn:

Bahaa Al Mur

Checked:

Osama Bazzour

File Name:

JAI-WELL-CR-C.dwg

Date:

24-08-2021

Scale:

1:25

Size:

A1

Drawing No:

JAI-W-CR-C-02

Sheet:

044/105

Rev:

01

Center for Engineering and Planning

Ramallah, Palestine

A/Been - Al Meidan St. Against Al Watanyat Towers

P.O Box 301

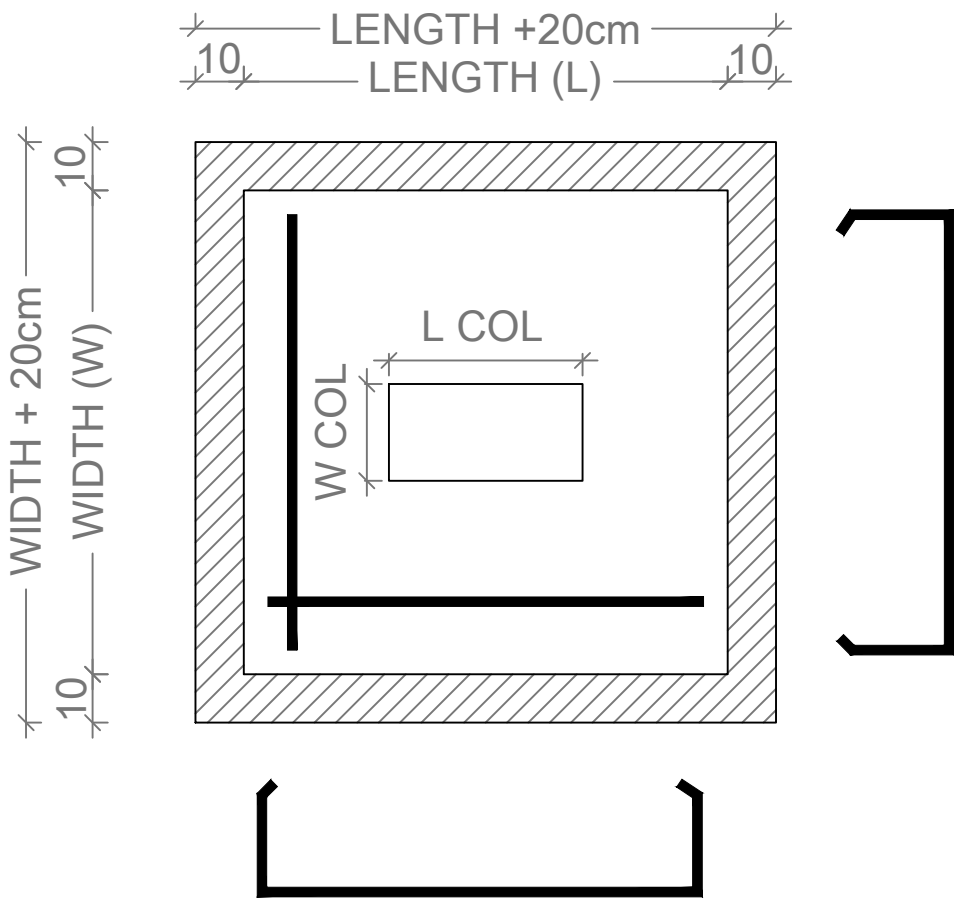
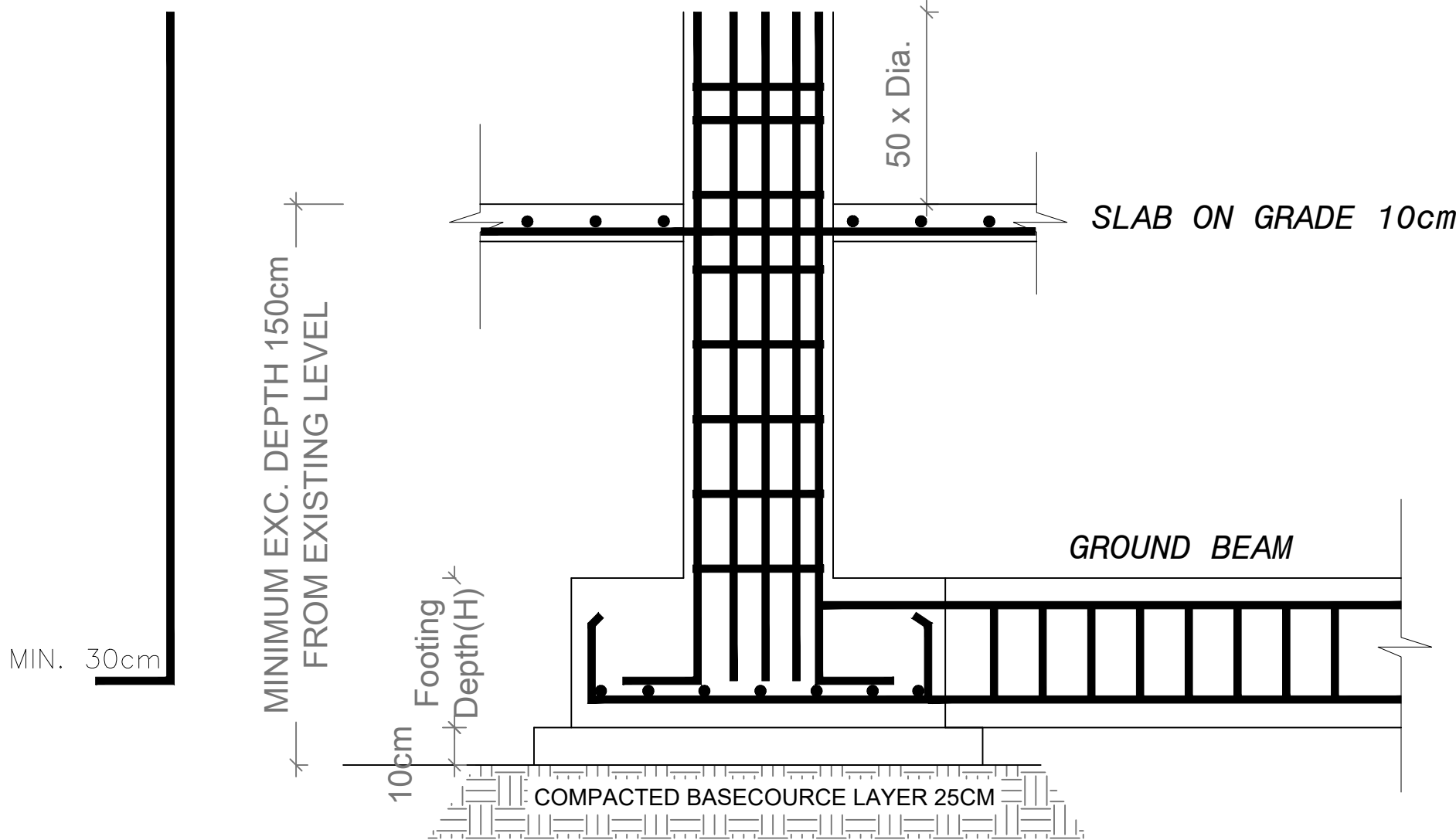
2021-09-19

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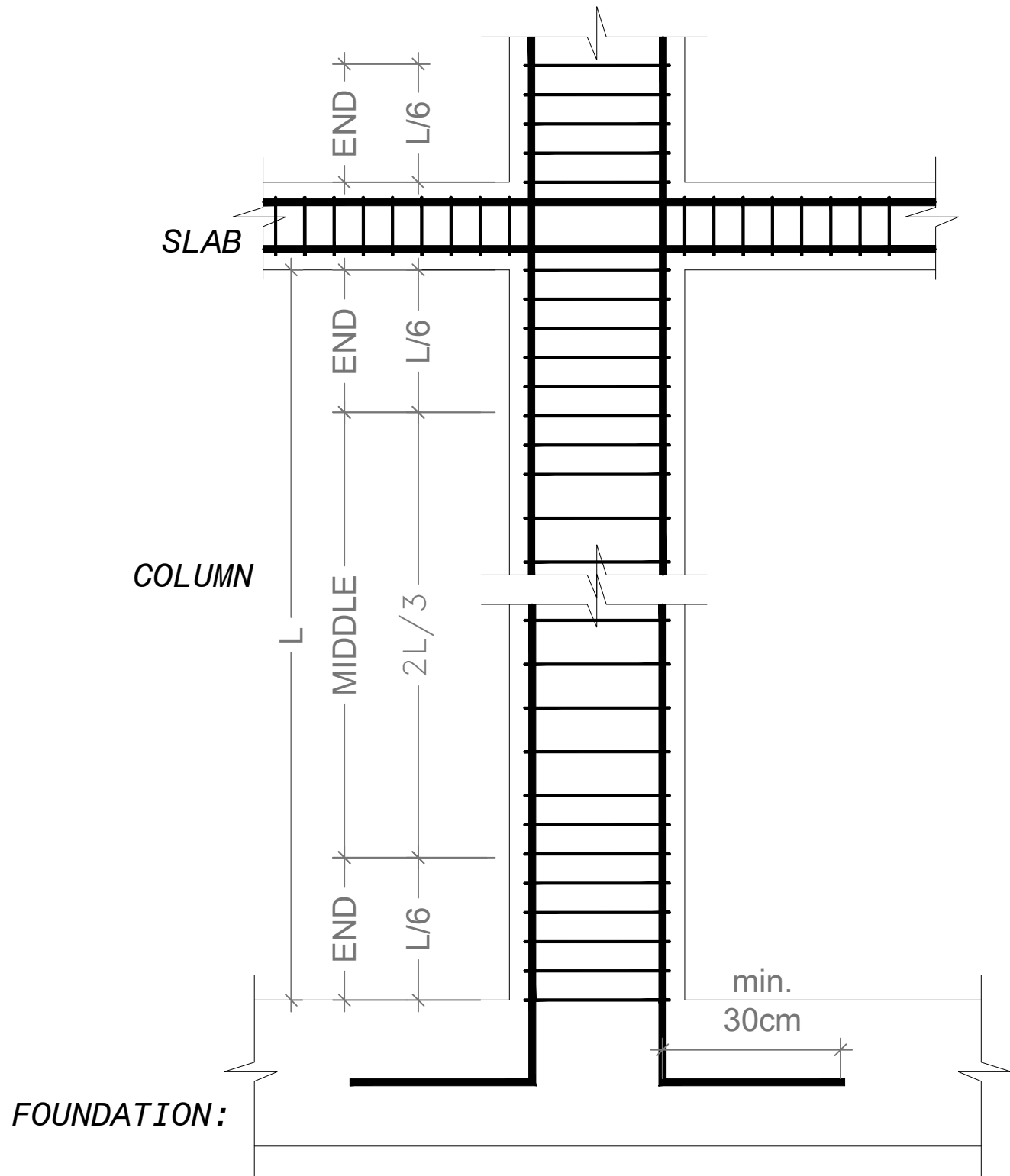
Table of Footings (ISOLATED)

Footing		Total	Footings size			Reinforcement		
FOOT.NAME	FOOT.NO.		L (cm)	W (cm)	h (cm)	LONG DIR.	SHORT DIR.	Shape
F1	4	4	100	100	50	1Ø12@15cm	1Ø12@15cm	

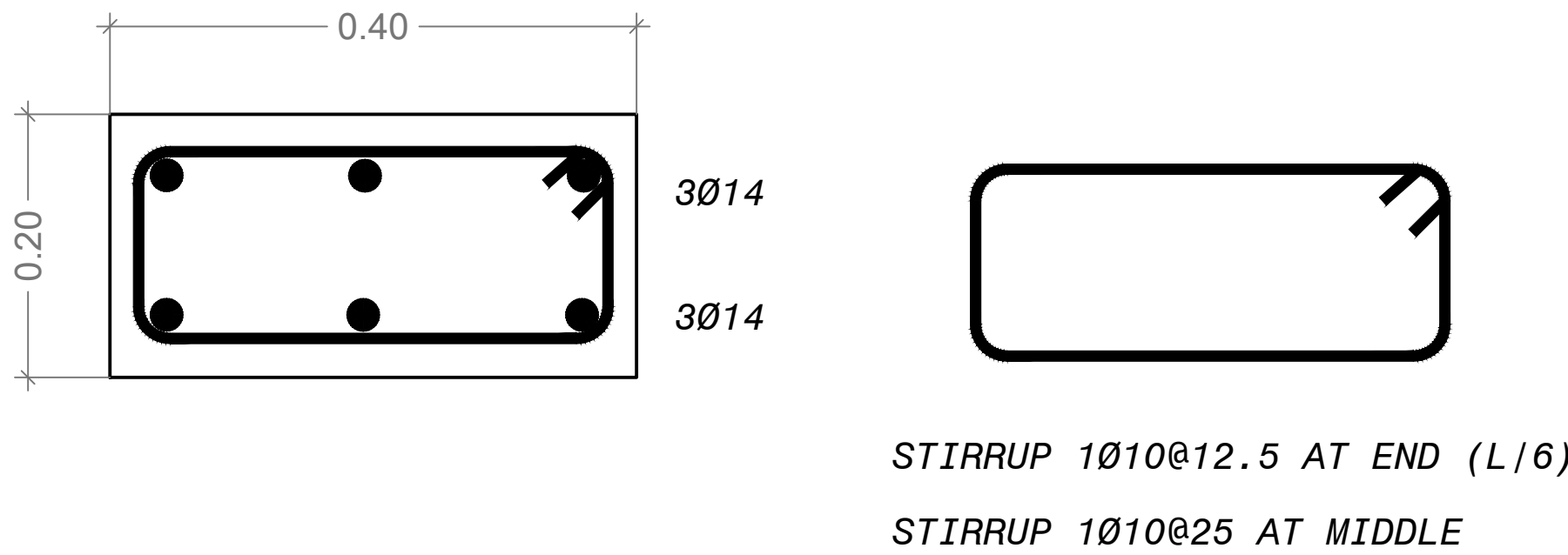


TYPICAL DETAILS FOR ISOLATED FOOTING

FOOTING DETAILS



TYPICAL DETAILS FOR COLUMN STIRRUP SPACING



COLUMN DETAILS
FOR ALL COLUMNS.
Scale 1:5

COLUMN DETAILS

NOTES

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LARGER OF 0.33L2 & 0.33L3

14. FOR OTHER BEAMS .THE CONTRACTOR SHOULD SUBMIT SHOP DRAWING FOR ENGINEER APPROVAL.

BENDS

GRADE 250 (TYPE & GRADE R)

GRADE 420 (TYPE AND GRADE T)

BAR SIZE

D

6

8

10

12

14

16

18

R

R

R

R

R

R

R

HOOKS

GRADE 250 (TYPE & GRADE R)

GRADE 420 (TYPE AND GRADE T)

R

R

R

R

R

R

R

12

16

20

24

28

32

36

18

24

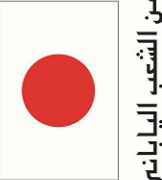
30

36

42

48

54

Donor:  من الشعب الي الشعب
From the People of Japan

Owner:  من الشعب الي الشعب
From the People of Japan

Operator:  من الشعب الي الشعب
From the People of Japan

Implementing Agency:  من الشعب الي الشعب
From the People of Japan

Contract No. : 045/105/01

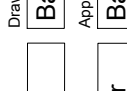
Project: JAIW-CR-C-03

Subject: Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil

Chlorination Room - Columns and Footings Details

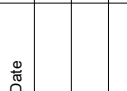
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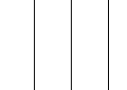
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Date: 24-08-2021

Scale: 1:50

Sheet: 045/105/01

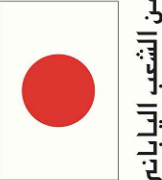
Drawn:  Baha Al Mur

Checked:  Bassam Abu Zahra

Date: 24-08-2021

Scale: 1:50

Sheet: 045/105/01

Donor:  من الشعب الي الشعب
From the People of Japan

Owner:  من الشعب الي الشعب
From the People of Japan

Operator:  من الشعب الي الشعب
From the People of Japan

Implementing Agency:  من الشعب الي الشعب
From the People of Japan

Contract No. : 045/105/01

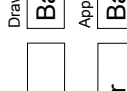
Project: JAIW-CR-C-03

Subject: Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil

Chlorination Room - Columns and Footings Details

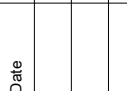
Drawn:  Bassam Abu Zahra

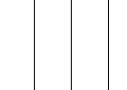
Checked:  Osama Bazzour

Date: 24-08-2021

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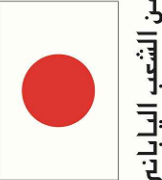
Drawn:  Baha Al Mur

Checked:  Bassam Abu Zahra

Date: 24-08-2021

Scale: 1:50

Sheet: 045/105/01

Donor:  من الشعب الي الشعب
From the People of Japan

Owner:  من الشعب الي الشعب
From the People of Japan

Operator:  من الشعب الي الشعب
From the People of Japan

Implementing Agency:  من الشعب الي الشعب
From the People of Japan

Contract No. : 045/105/01

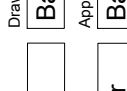
Project: JAIW-CR-C-03

Subject: Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling

Detail Design

Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil

Chlorination Room - Columns and Footings Details

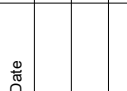
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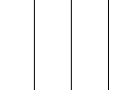
Checked:  Osama Bazzour

Date: 24-08-2021

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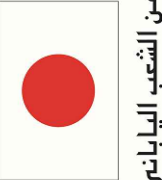
Drawn:  Baha Al Mur

Checked:  Bassam Abu Zahra

Date: 24-08-2021

Scale: 1:50

Sheet: 045/105/01

Donor:  من الشعب الي الشعب
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Contract No. : 045/105/01

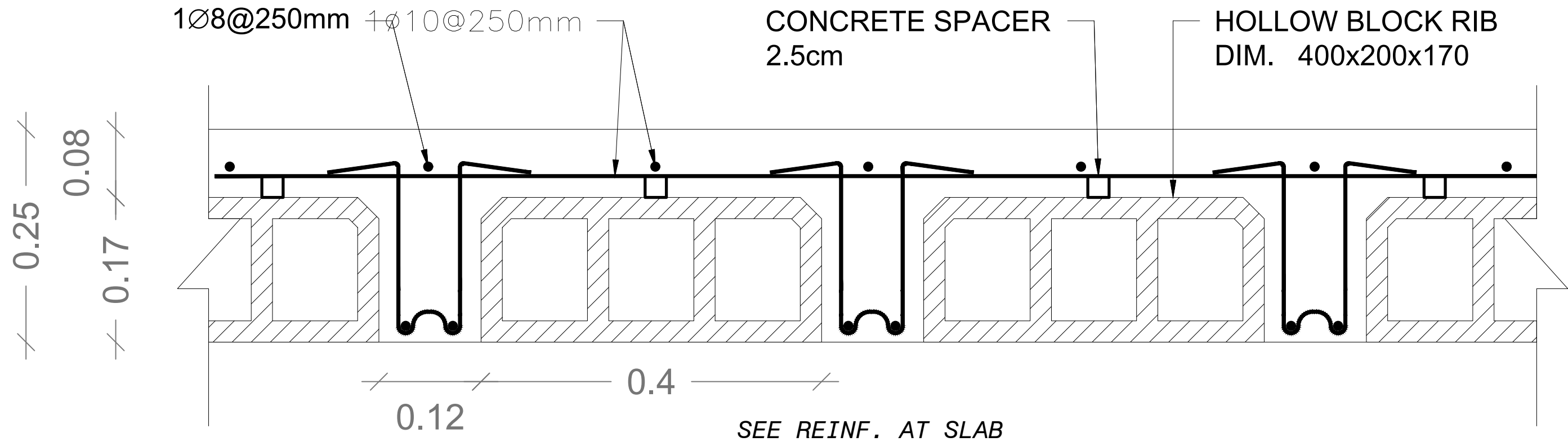
Project: JAIW-CR-C-03

Subject: Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling

Detail Design

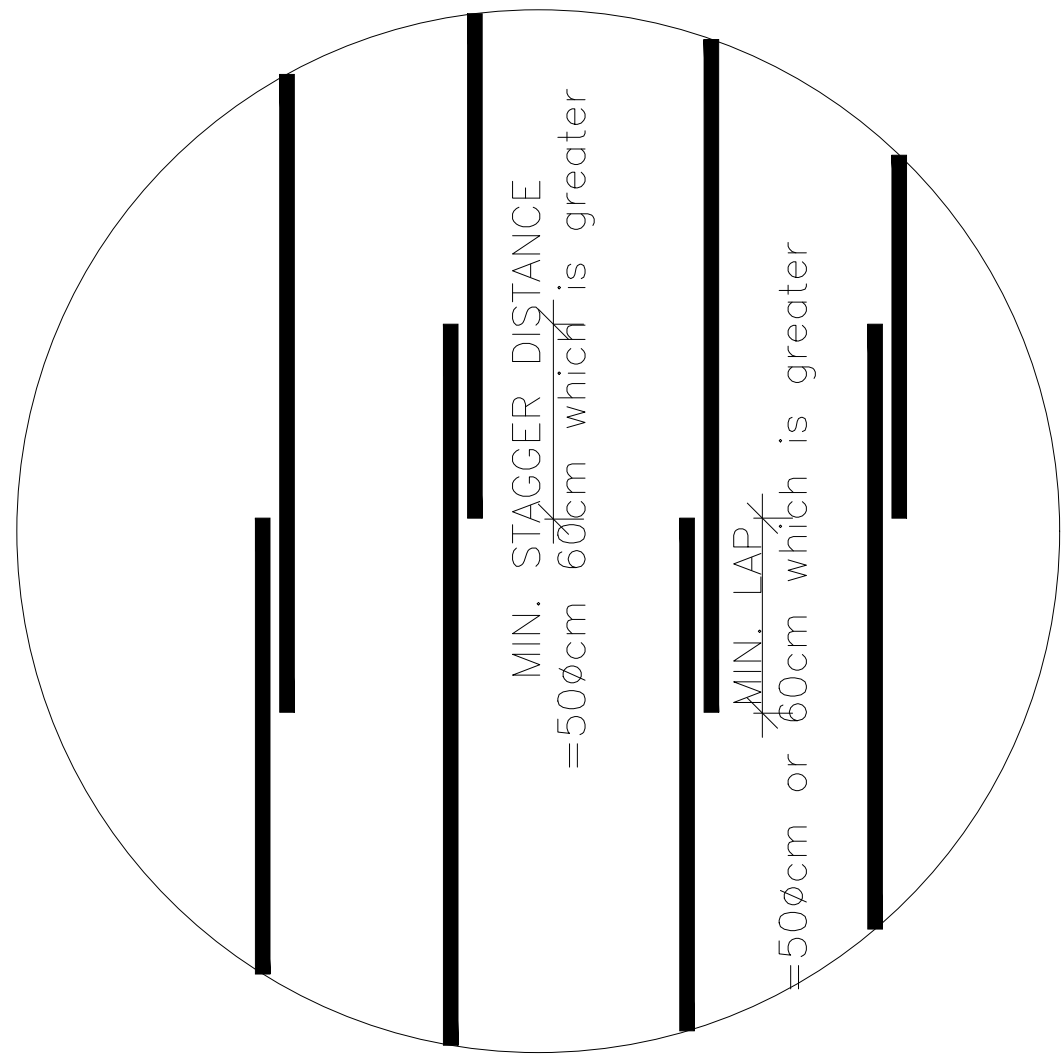
Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil

Chlorination Room - Columns and Footings Details

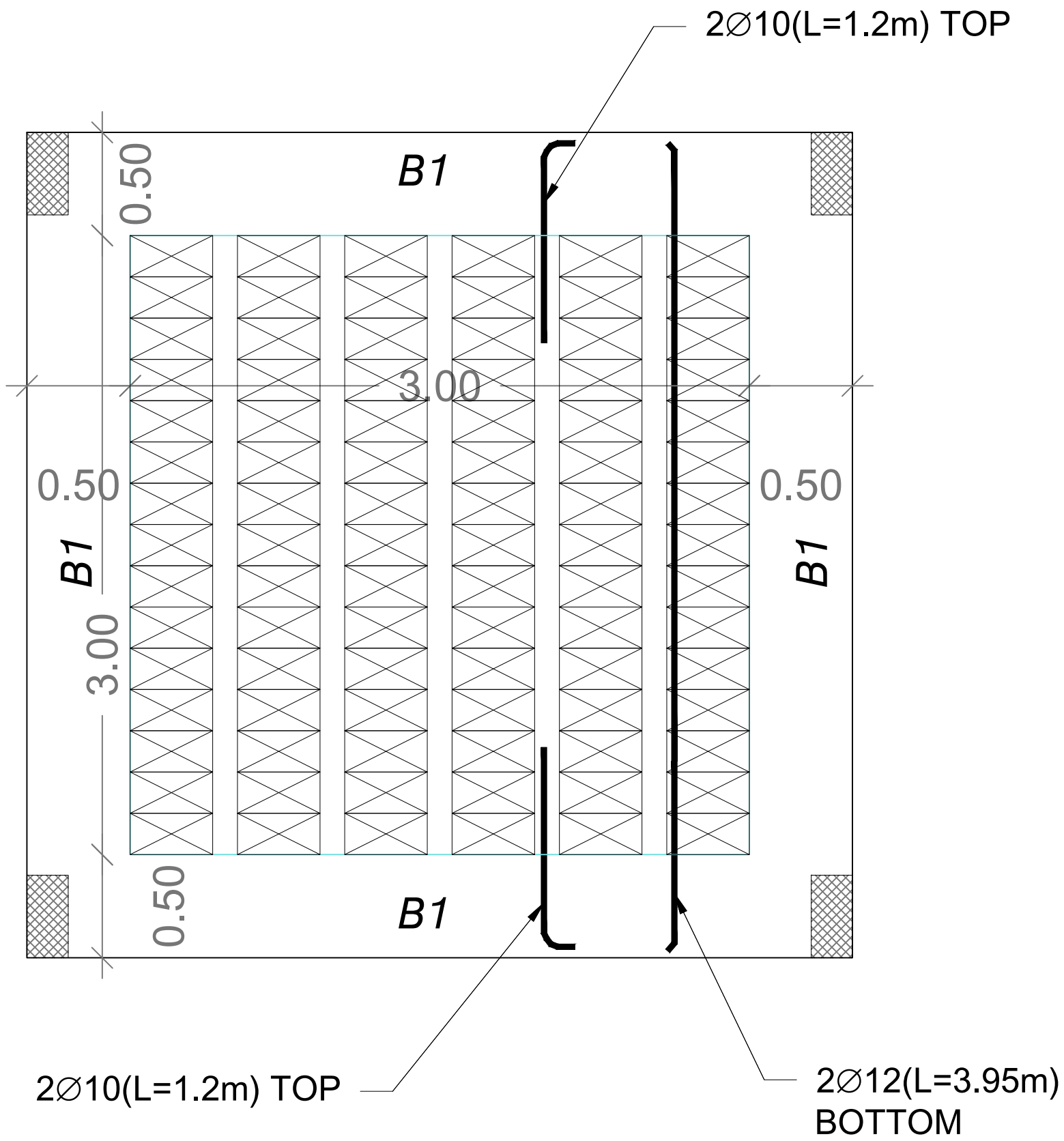


SECTION DETAIL FOR RIBS

SCALE 1:10



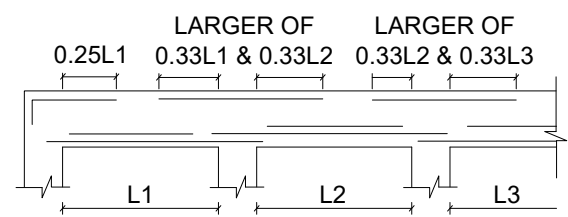
TYPICAL STAGGERING REINFORCEMENT DETAILS



REINF. FOR CHLORINATION ROOM SLAB
SCALE 1:50

NOTES

- MIN. LAP FOR STEEL BAR = 60CM OR 50 x DIA. BAR WHICH IS GREATER.
- FOUND. AND COL. ARE DESIGNED ACCORDING TO ARCH. DRAWINGS.
- MINIMUM DEPTH OF EXCAVATION IS 1.5M TO THE BOTTOM OF FOUNDATION AND/OR AS PER THE ENGINEER INSTRUCTIONS.
- BAR CUT OFF POINTS FOR TYPICAL BEAMS IS AS FOLLOWS:



- FOR OTHER BEAMS THE CONTRACTOR SHOULD SUBMIT SHOP DRAWING FOR ENGINEER APPROVAL.

BENDS		HOOKS	
BAR SIZE	GRADE 250 (TYPE & GRADE R)	GRADE 420 (TYPE AND GRADE T)	
D	R	R	
6	12	18	
8	16	24	
10	20	30	
12	24	36	
14	28	42	
16	32	48	
18	36	54	

- NOTES
- STEEL BARS PROVIDED BY CONTRACTOR (G420) FY=420 MPA.
 - CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH AS:
 - FOR COLUMNS B300
 - FOR FOUNDATION & SLABS B300
 - FOR STAIRS B300
 - FOR POST,LINTELS CANOPIES ALL SECONDARY ELEMENTS B250
 - FOR PLAIN CONCRETE B200
 - STEEL COVERS:
 - FOR FOUNDATIONS (CAST AGAINST SOL) =7.5 CM
 - (FOR PROTECTED CONCRETE) =5.0 CM
 - FOR COLUMNS =4.0 CM
 - FOR SLABS =2.5 CM
 - FOR BEAMS =4.0 CM

- NOTES
- ALL DIMENSIONS ARE IN METERS EXCEPT WHERE OTHERWISE SHOWN OR NOTED.
 - IT IS THE CONTRACTOR RESPONSIBILITY TO PREPARE AND SUBMIT WORKSHOP DRAWING FOR ENGINEERS BEFORE START WORKS.
 - ALL OF THE STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PERTINENT ARCHITECTURAL, ELECTRICAL, MECHANICAL, CIVIL DEFENSE AND OTHER STRUCTURAL DRAWINGS.
 - IF THERE IS ANY DISCREPANCY IN DRAWINGS, THE CONTRACTOR MUST CONSIDER IT IN HIS PRICE.
 - CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.
 - DESIGN CODE ACI 318M-14.

Rev.	Date	Description	Drawn	Checked	Approved
2	24.08.2021	Draft Detailed Design	BM	OB	BA
1	01.08.2021	Draft Detailed Design	BM	OB	BA
Project					
Support to Infrastructure Works for Phase II: Jericho Agro-Industrial Park and Deep Water Well Drilling					
Contract No.:					
Detail Design					
Construction of Deep Well and Transmission Pipeline for JAIP					
Well Site- Civil					
Chlorination Room - Reinforcement Slab - I					

Donor:
Ministry of Planning
Jericho Municipality

Logo of Ministry of Planning

Jericho Municipality

Operator:
Center for Engineering and Planning
Ramallah, Palestine
P.O. Box 301

Logo of Center for Engineering and Planning

Center for Engineering and Planning

Implementing Agency:
United Nations Development Programme
Programme of Assistance to the Palestinian People
Jericho Municipality

Logo of UNDP

UNDP

Owner:
Ministry of Planning
Jericho Municipality

Logo of Ministry of Planning

Jericho Municipality

Donor:
Ministry of Planning
Jericho Municipality

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Programme of Assistance to the Palestinian People
Jericho Municipality

Logo of UNDP

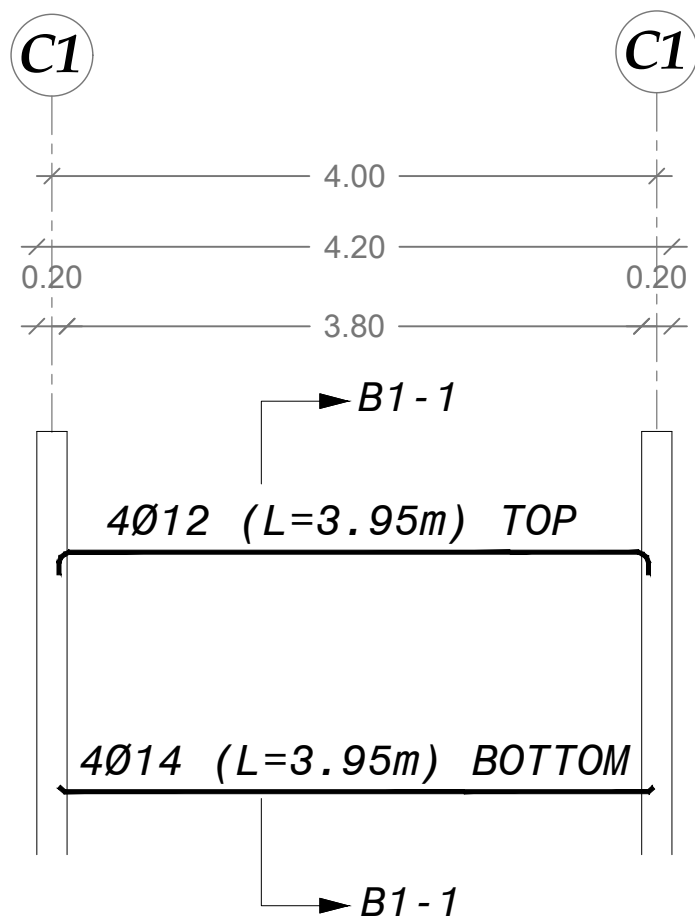
UNDP

Owner:
Ministry of Planning
Jericho Municipality

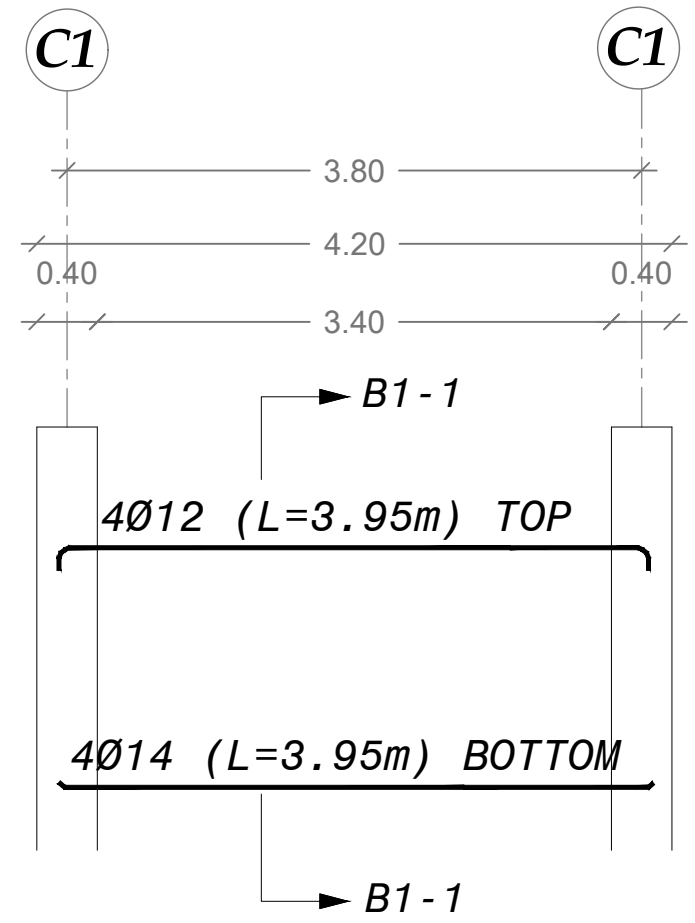
Logo of Ministry of Planning

Jericho Municipality

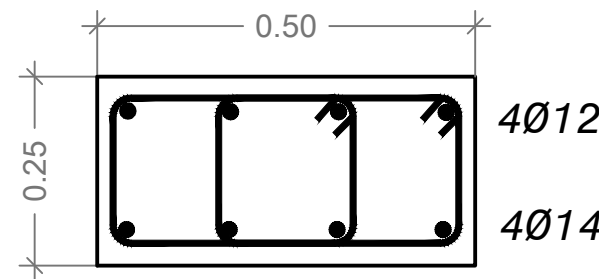
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REINF. FOR BEAM NO. 1 (B1) FIRST DIRECTION
SCALE: 1:50

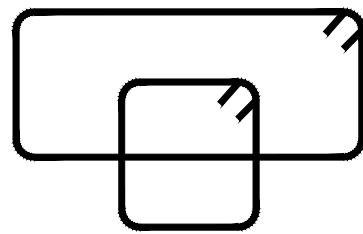


REINF. FOR BEAM NO. 1 (B1) SECOND DIRECTION
SCALE: 1:50



STIRRUPS 2Ø10@20cm

SECTION: B1 - 1
SCALE: 1:10



TYPICAL STAGGERING REINFORCEMENT DETAILS

NOTES

10. MIN. LAP FOR STEEL BAR = 60CM OR 50 x DIA. BAR WHICH IS GREATER.

11. FOUND. AND COL. ARE DESIGNED ACCORDING TO ARCH. DRAWINGS.

12. MINIMUM DEPTH OF EXCAVATION IS 1.5M TO THE BOTTOM OF FOUNDATION AND/OR AS PER THE ENGINEER INSTRUCTIONS.

13. BAR CUT OFF POINTS FOR TYPICAL BEAMS IS AS FOLLOWS:

LARGER OF

LARGER OF

0.25L1

0.33L1 & 0.33L2

0.33L2 & 0.33L3

L1

L2

L3

14. FOR OTHER BEAMS THE CONTRACTOR SHOULD SUBMIT SHOP DRAWING FOR ENGINEER APPROVAL.

BENDS		HOOKS	
BAR SIZE	GRADE 250 (TYPE & GRADE R)	GRADE 420 (TYPE AND GRADE T)	
D	R	R	
6	12	18	
8	16	24	
10	20	30	
12	24	36	
14	28	42	
16	32	48	
18	36	54	

Donor:

Ministry of Planning
Government of Palestine

Operator:

Municipality of Jericho

Owner:

Municipality of Jericho

Implementing Agency:

United Nations Development Programme
Programme of Assistance to the Palestinian People

Contract No.:

047/105/01

Project:

Jericho Agro-Industrial Park and Deep Water Well Drilling

Subject:

Construction of Deep Well and Transmission Pipeline for JAIP Well Site- Civil

Detail Design

Chlorination Room - Reinforcement Slab - II

Drawn:

Bahaa Al Mur

Checked:

Osama Bazzour

Approved:

Bassam Abu Zahra

File Name:

JAI-WELL-CR-C.dwg

Date:

24-08-2021

Scale:

1: 50

Size:

A1

Revision:

047/105/01

Notes:

1. ALL DIMENSIONS ARE IN METERS EXCEPT WHERE OTHERWISE SHOWN OR NOTED.

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5. CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE PAINTED 1-COAT PRIMER AND 2-COATS OF HOT BITUMEN.

6. DESIGN CODE ACI 318M-14.

Notes:

7. STEEL BARS PROVIDED BY CONTRACTOR (G420) F_y=420 MPa.

8. CONCRETE PROVIDED BY CONTRACTOR FOR COMPRESSIVE STRENGTH AS:

• FOR COLUMNS B300

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• FOR STAIRS B300

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• FOR COLUMNS =4.0 CM

• FOR SLABS =2.5 CM

• FOR BEAMS =4.0 CM



Designated:	Drawn:
Samed Burnat	Bahaa Al Mur
Checked:	Approved:
Osama Bazzour	Bassam Abu Zahra
File Name:	Stamp:
JAIP-WELL-CRM.dwg	
Date:	Scale:
24-09-2021	1: 25
Drawing No:	Sheet:
JAIP-WCRM-01	A1
Implementing Agency:	Date:
	048/05



United Nations Development Programme
Programme of Assistance to the Palestinian People
برامج المساعدة للأمم المتحدة للنمطين الفلسطينيين



UNDP
Jericho Municipality
بلدية أريحا
Jericho Municipality



مجلس البلديات الفلسطينية
Municipalities Council



من الشعب الياباني
From the people of Japan

Operator: _____

Owner: _____

Donor: _____

Center for Engineering and Planning
Ramallah, Palestine
P.O. Box 301
Meen St. Against Al Watanya Towers

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2021-09-19

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center for engineering and planning

