

SP5A-52N 5,5kW 3X380V 50Hz

Grundfos pump 5261952





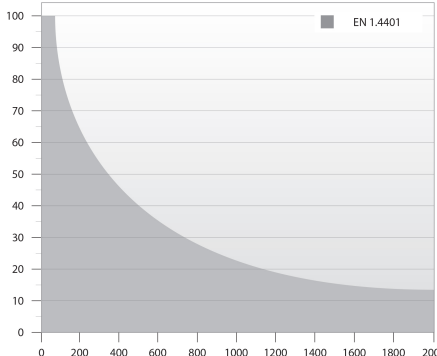
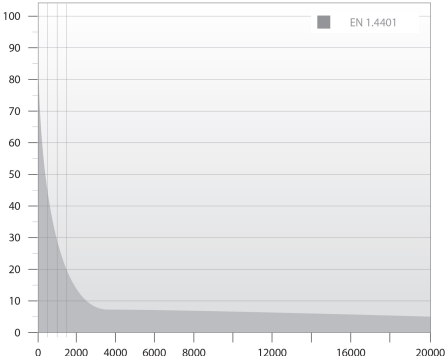
Thank you for your interest in our products. Please contact us for more information, or visit our website


<https://www.lenntech.com/grundfos/SPFAM/5261952/SP-5A-52N.html>

info@lenntech.com

tel. +31 152 610 900

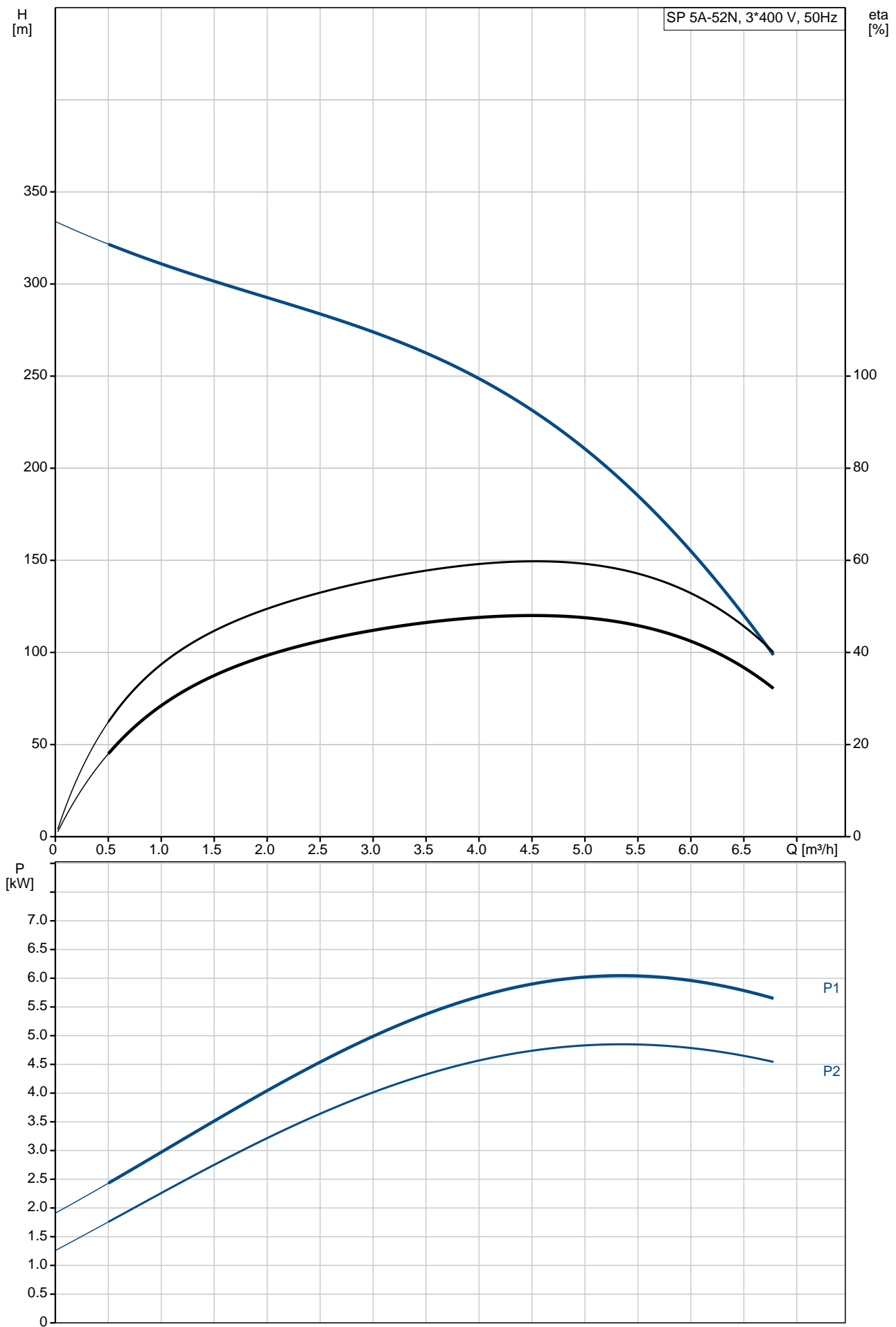
fax. +31 152 616 289

Position	Qty.	Description
	1	<p>SP 5A-52N</p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: On request</p> <p>Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All steel components are made in stainless steel, EN 1.4401 (AISI 316), that ensures high corrosive resistance.</p> <p>The pump is fitted with a 5.5 kW MS4000 motor with sand shield, mechanical shaft seal, water-lubricated journal bearings and a volume compensating diaphragm. The motor is a canned type submersible motor offering good mechanical stability and high efficiency. Suitable for temperatures up to 40 °C.</p> <p>The motor is fitted with the Grundfos Tempcon sensor that, by use of powerline communication together with a MP204 control panel, enables temperature monitoring.</p> <p>The motor is for direct-on-line starting (DOL).</p> <p>Further product details</p> <p>The pump is suitable for applications similar to the following:</p> <ul style="list-style-type: none"> - raw-water supply - irrigation - groundwater lowering - pressure boosting - fountain applications - mining applications - off-shore applications. <p>The Grundfos SP pump is renowned for its high efficiency and already complies with the requirements of the Minimum Efficiency Index, and therefore Grundfos is amongst the best in class within submersible pumps.</p>  <p>Pump</p> <p>All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosion- and wear-resistant. The corrosion diagram below shows the capabilities of the pump and motor in relation to the temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).</p> <div>   </div>

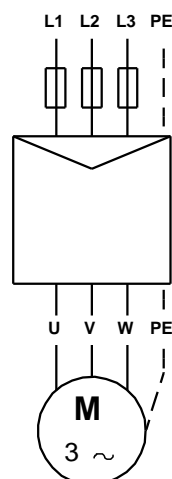
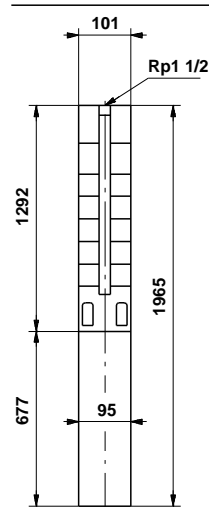
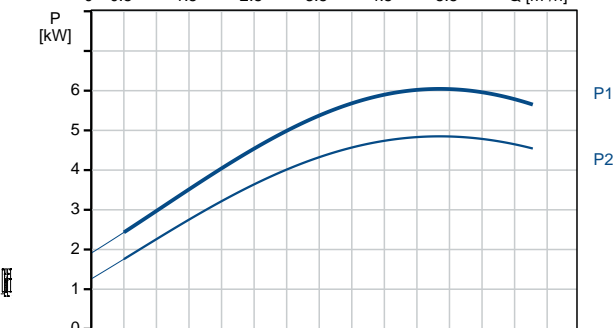
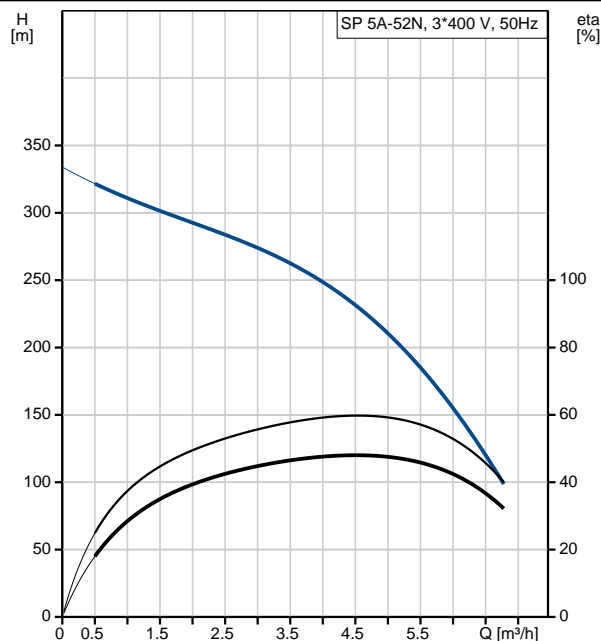
Position	Qty.	Description
		<p>The elastomer parts in the pump are made of NBR (Nitrile-Butadiene Rubber) and TPU (Thermoplastic Poly-Urethane) which offers good wear resistance and long service intervals.</p> <p>The suction interconnector is fitted with a strainer to prevent large particles from entering the pump. The suction interconnector is designed to comply with NEMA standards for motor mounting/dimensions.</p> <p>Motor</p> <p>The stator is hermetically encapsulated in stainless steel and the windings are embedded in polymer compound. This results in high mechanical stability, optimum cooling and reduces the risk of short circuits in the windings.</p> <p>The shaft seal faces are SiC/SiC. The material combination gives good performance when abrasive particles (sand) is present. Together with the shaft seal housing, the sand shield forms a labyrinth seal, which during normal operating conditions prevents penetration of sand particles into the shaft seal. This shaft seal is drinking water approved.</p> <p>The motor is fitted with the Grundfos Tempcon temperature sensor device that includes a NTC-resistor which senses the temperature. The resistor is built-in close to the winding. The temperature is converted into a high-frequency signal which is sent via the submersible drop cable and which can be converted into a temperature reading by means of Grundfos MP204.</p> <p>The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.</p>  <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Maximum liquid temperature: 40 °C</p> <p>Max liquid t at 0.15 m/sec: 40 °C</p> <p>Liquid temperature during operation: 20 °C</p> <p>Density: 998.2 kg/m³</p> <p>Technical:</p> <p>Rated flow: 5 m³/h</p> <p>Rated head: 213 m</p> <p>Shaft seal for motor: SiC/SiC</p> <p>Approvals on nameplate: CE,EAC</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Motor version: T40</p> <p>Materials:</p> <p>Pump: Stainless steel EN 1.4401 AISI 316</p> <p>Impeller: Stainless steel EN 1.4401 AISI 316</p> <p>Motor: Stainless steel DIN W.-Nr. 1.4539 AISI 904 L</p> <p>Installation:</p> <p>Pump outlet: Rp1 1/2</p> <p>Motor diameter: 4 inch</p> <p>Electrical data:</p> <p>Motor type: MS4000</p> <p>Rated power - P2: 5.5 kW</p> <p>Power (P2) required by pump: 5.5 kW</p>

Position	Qty.	Description
		Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 13.0-13.0-13.4 A Starting current: 480-530-550 % Cos phi - power factor: 0.85-0.81-0.76 Rated speed: 2850-2860-2870 rpm Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Built-in temp. transmitter: yes Others: Minimum efficiency index, MEI : 0.50 ErP status: EuP Standalone/Prod. Net weight: 45.5 kg Gross weight: 65.8 kg Shipping volume: 238 m ³

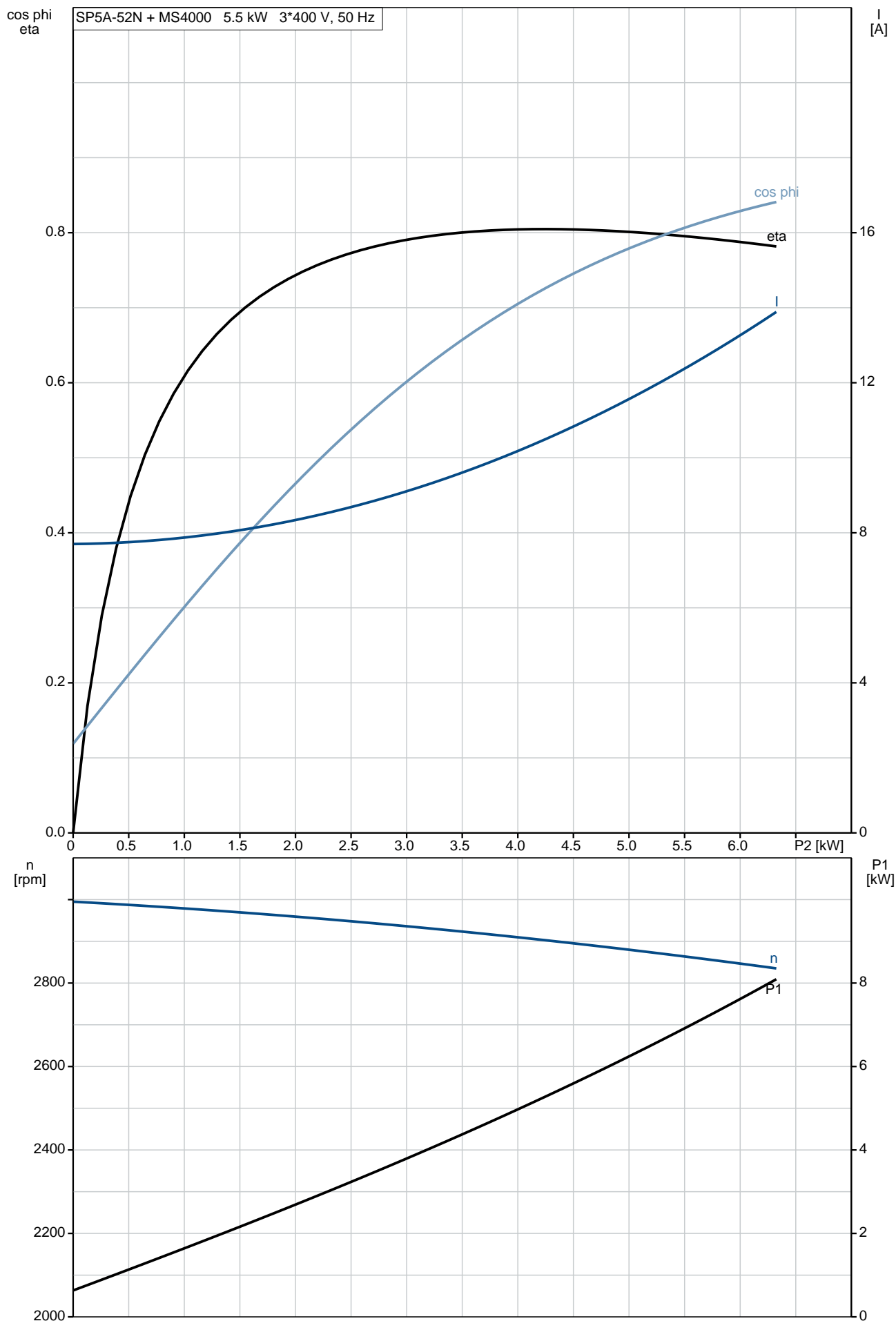
On request SP 5A-52N 50 Hz



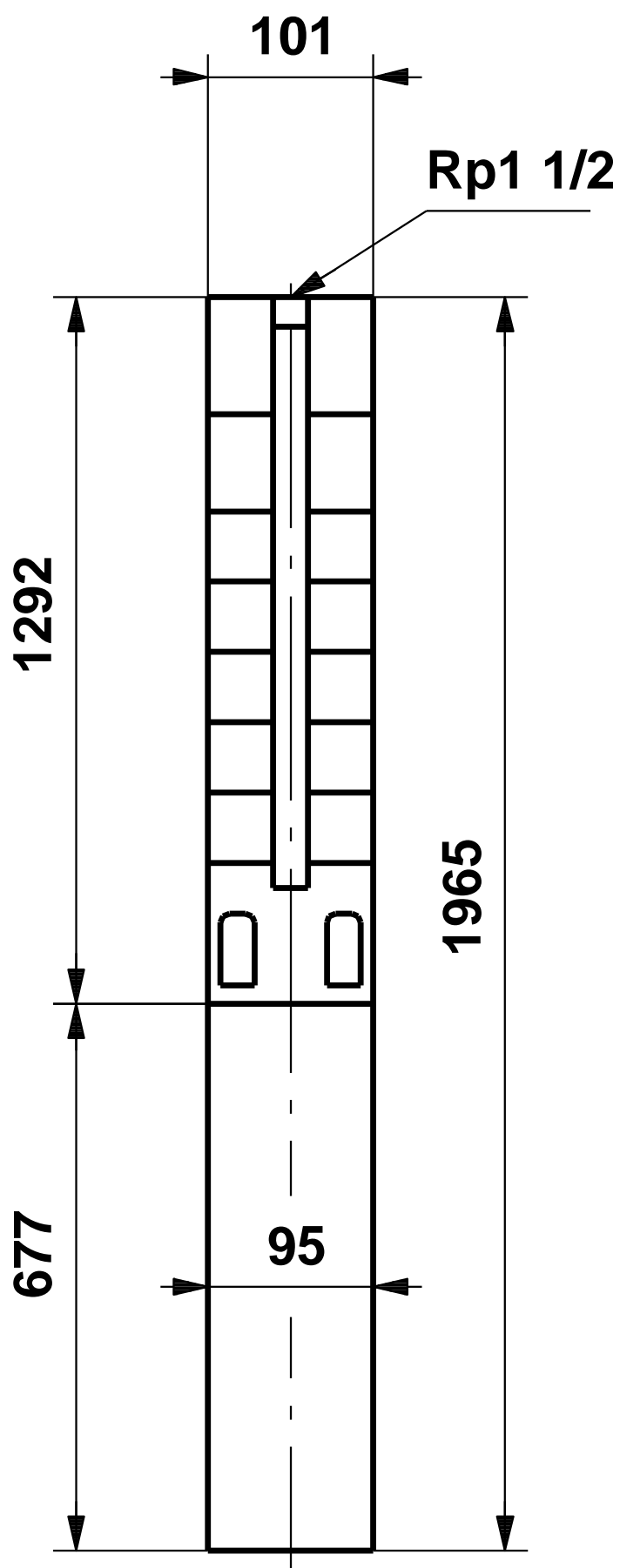
Description	Value
General information:	
Product name:	SP 5A-52N
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	5 m³/h
Rated head:	213 m
Stages:	52
Impeller reduc.:	NONE
Shaft seal for motor:	SIC/SIC
Approvals on nameplate:	CE,EAC
Curve tolerance:	ISO9906:2012 3B
Model:	A
Valve:	YES
Motor version:	T40
Materials:	
Pump:	Stainless steel
	EN 1.4401
	AISI 316
Impeller:	Stainless steel
	EN 1.4401
	AISI 316
Motor:	Stainless steel
	DIN W.-Nr. 1.4539
	AISI 904 L
Installation:	
Pump outlet:	Rp1 1/2
Motor diameter:	4 inch
Liquid:	
Pumped liquid:	Water
Maximum liquid temperature:	40 °C
Max liquid t at 0.15 m/sec:	40 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	MS4000
Applic. motor:	GRUNDFOS
Rated power - P2:	5.5 kW
Power (P2) required by pump:	5.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	13.0-13.0-13.4 A
Starting current:	480-530-550 %
Cos phi - power factor:	0.85-0.81-0.76
Rated speed:	2850-2860-2870 rpm
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Motor protec:	NONE
Thermal protec:	external
Built-in temp. transmitter:	yes
Motor No:	79195611
Others:	
Minimum efficiency index, MEI :	0.50
ErP status:	EuP Standalone/Prod.
Net weight:	45.5 kg
Gross weight:	65.8 kg
Shipping volume:	238 m³



On request SP 5A-52N 50 Hz

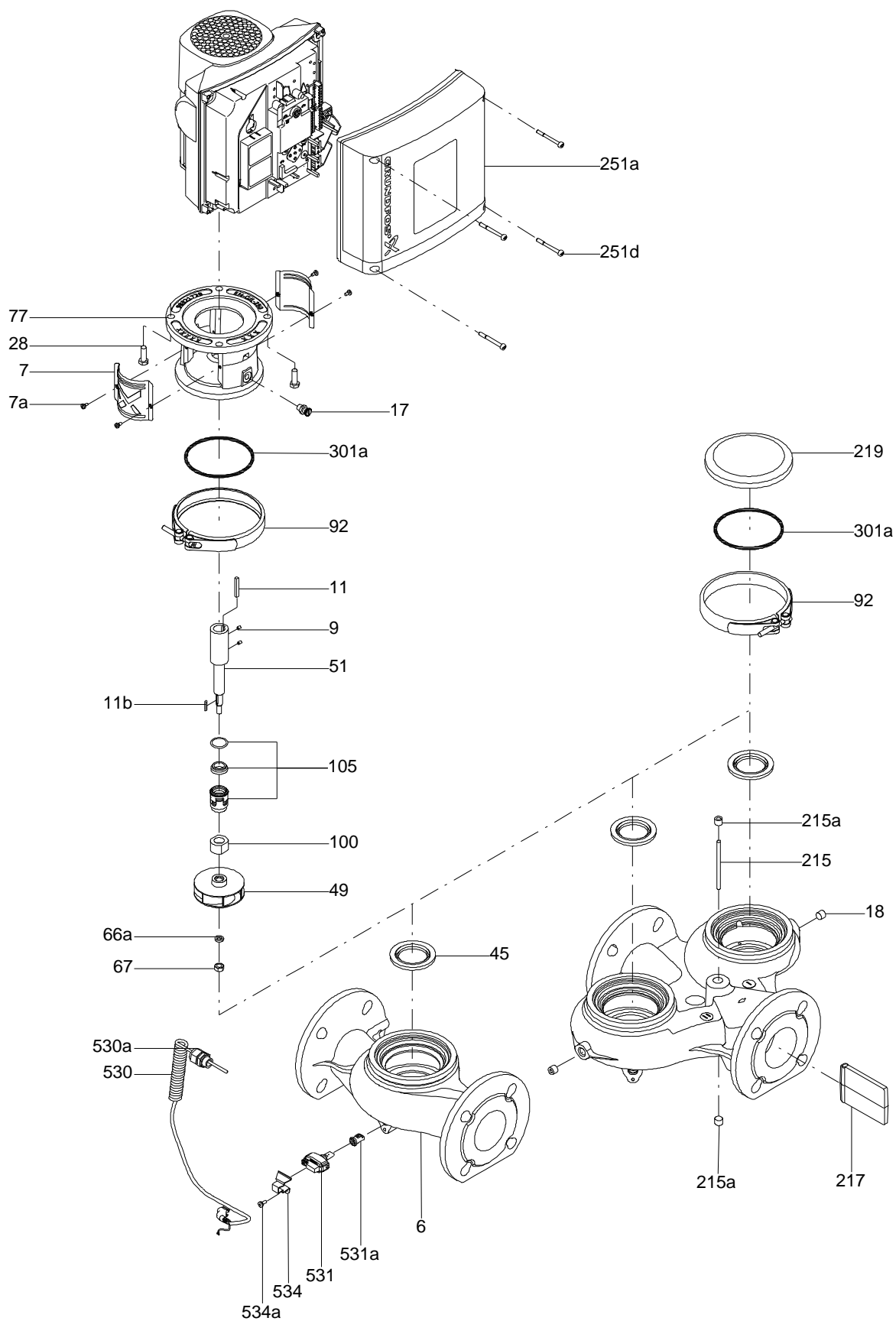


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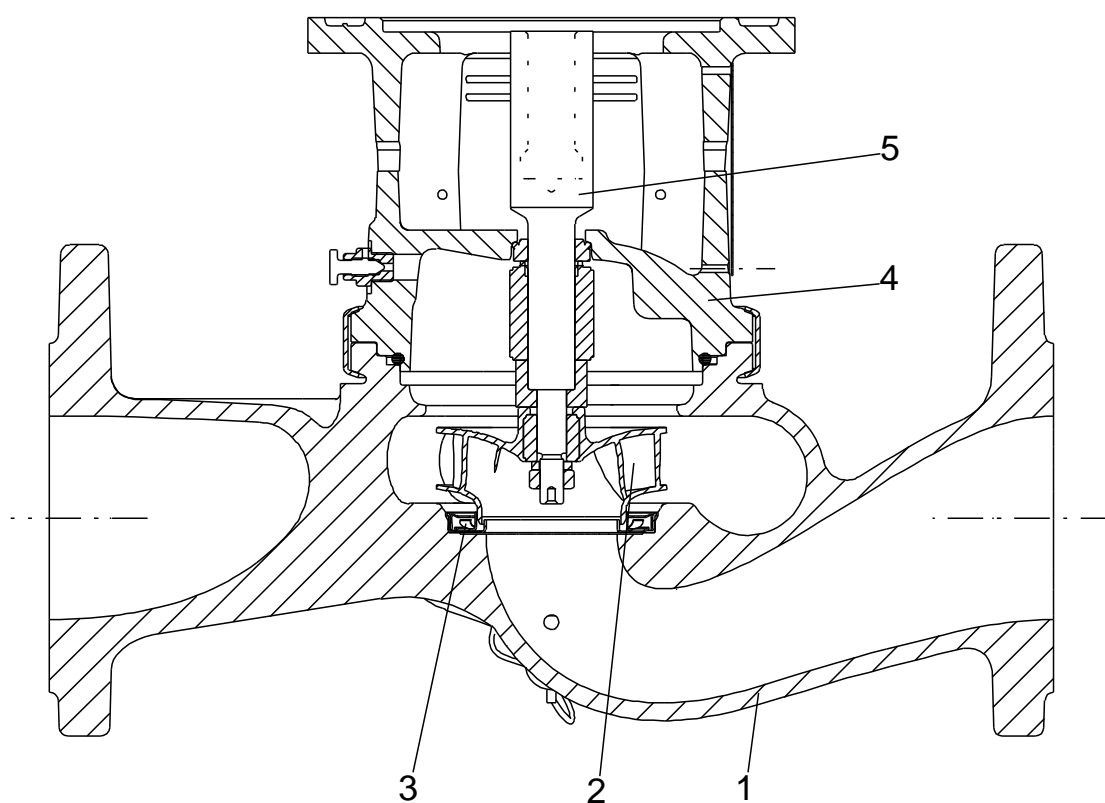


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view

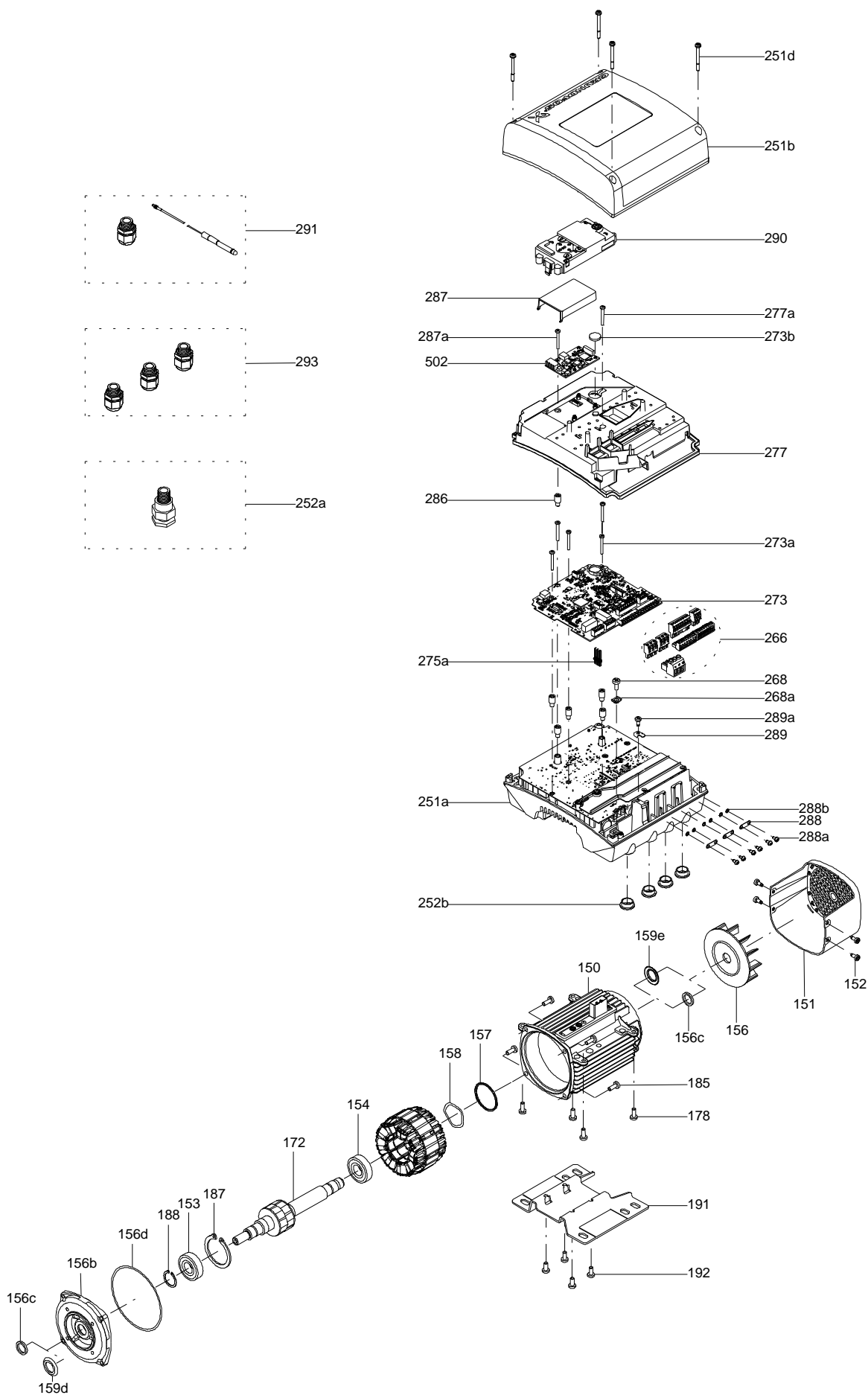


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list SP 5A-52N, Product No. On request
Valid from 18.4.1995 (9516)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
-	Pump w/o motor				1	pcs
	Stop ring				3	
	Retainer				1	
- 1	Valve casing cpl.				1	
	Valve casing				1	
6	Bearing				1	
- 9	Chamber cpl.				52	
	Chamber				1	
7	Neck ring				1	
- 10	Chamber, bottom				1	
7	Neck ring				1	
- 13a	Impeller cpl.				52	
	Impeller				1	
- 11	Split cone nut				1	
	Split cone nut					
11a	O-ring		Diameter: 15,00			
			Material type: NBR			
			Thickness: 70SHOR			
12	Split cone				1	
14	Suction interconnector				1	
15	Strainer				1	
16	Shaft cpl.		Length (mm): 1200		1	
17	Strap cpl.				4	
18	Cable guard cpl.				1	
18b	Support for cable guard				1	
18d	Hex nut				2	
19	Nut				4	
78	Nameplate				1	
-	Motor				1	pcs
1	Stator w/housing				1	
2	Shaft w/rotor				1	
3	Thrust ring support cpl.				1	
4	Radial bearing				1	
5	Bearing pipe				1	
6	Thrust bearing				1	
7	Lock ring				1	
10	Bearing retainer				1	
11	Adjusting screw				1	
12	Diaphragm				1	
13	End shield				1	
15	Nut				1	
16	Lock washer				1	
18	Nut		Thread: M8 DIN 934		1	
21	Nut		Thread: M8 DIN 934		4	
22	Staybolt		Thread: M8 X M8		3	
22a	Staybolt		Thread: M8 X M8 R		1	
22b	Cheese head screw				1	
22c	O-ring		Diameter: 4		1	
			Material type: NBR			
			Thickness: 1			
24	O-ring		Diameter: 40		1	
			Material type: NBR			
			Thickness: 2			
25	Shaft seal housing				1	
27	Spline protector				1	
28	Supporting ring				1	
29	Sand shield				1	
30	Compression spring				1	
31	Supporting ring				1	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
32	Shaft seal cpl.				1	
- 34	Shaft seal cpl.				1	
	Seal ring				1	
	Seal ring, rotating				1	
33	O-ring		Diameter: 16		1	
			Material type: VITON			
			Thickness: 2.5			
20	Motor cable		Length (M): 2,5M		1	pcs

Disclaimer: The information about the Grundfos pump in this document may be outdated.

Data may be subject to alterations without further notice.

Please contact us to verify the data above is still accurate/up-to-date.

All information is copyright Grundfos.

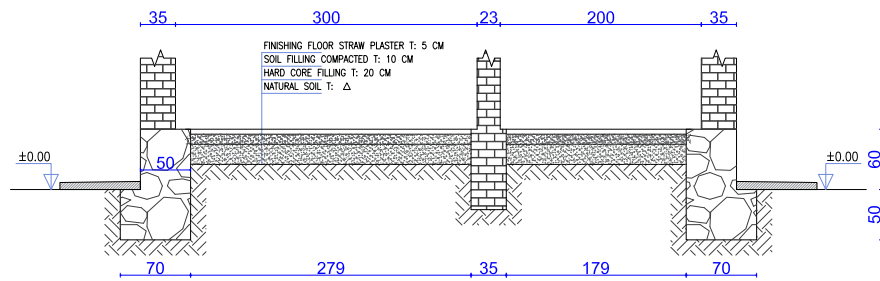
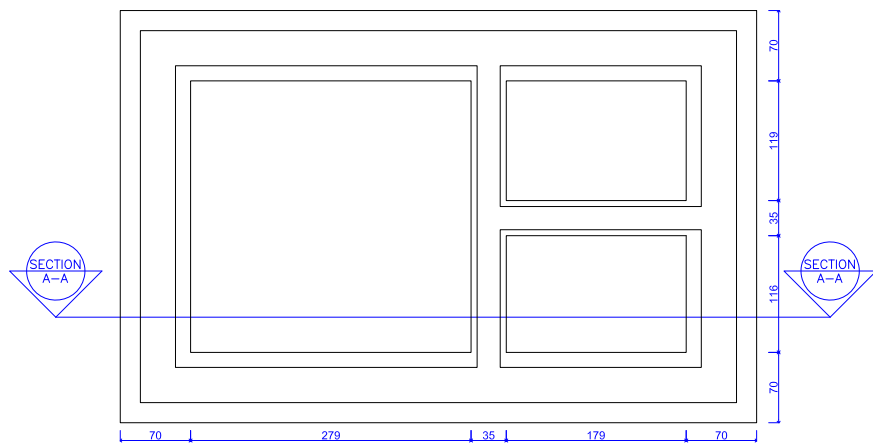


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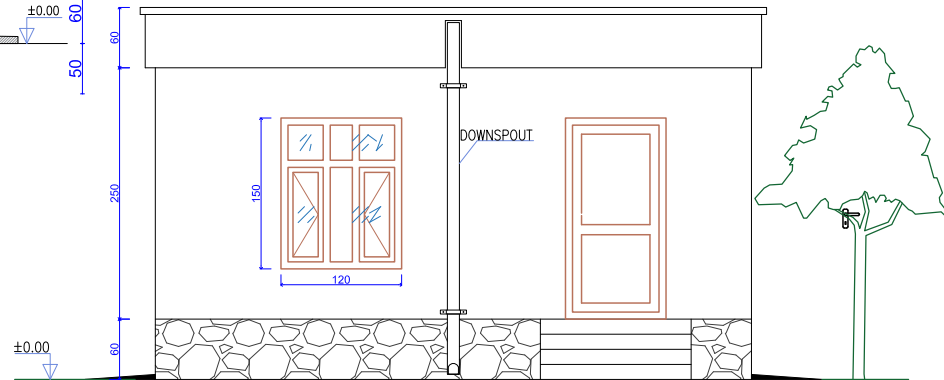
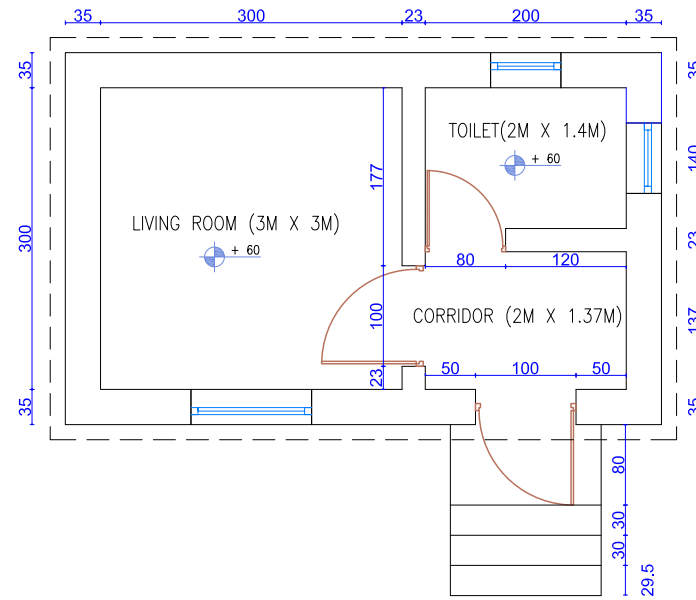
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FOUNDATION PLAN & SECTION A-A
SCALE 1:50



FRONT VIEW
EXTERIOR PLASTER: MUD CLAY
SCALE 1:50

UNLESS NOTED OTHERWISE, LINEAR DIMENSIONS SHOWN ARE IN CENTIMETER.

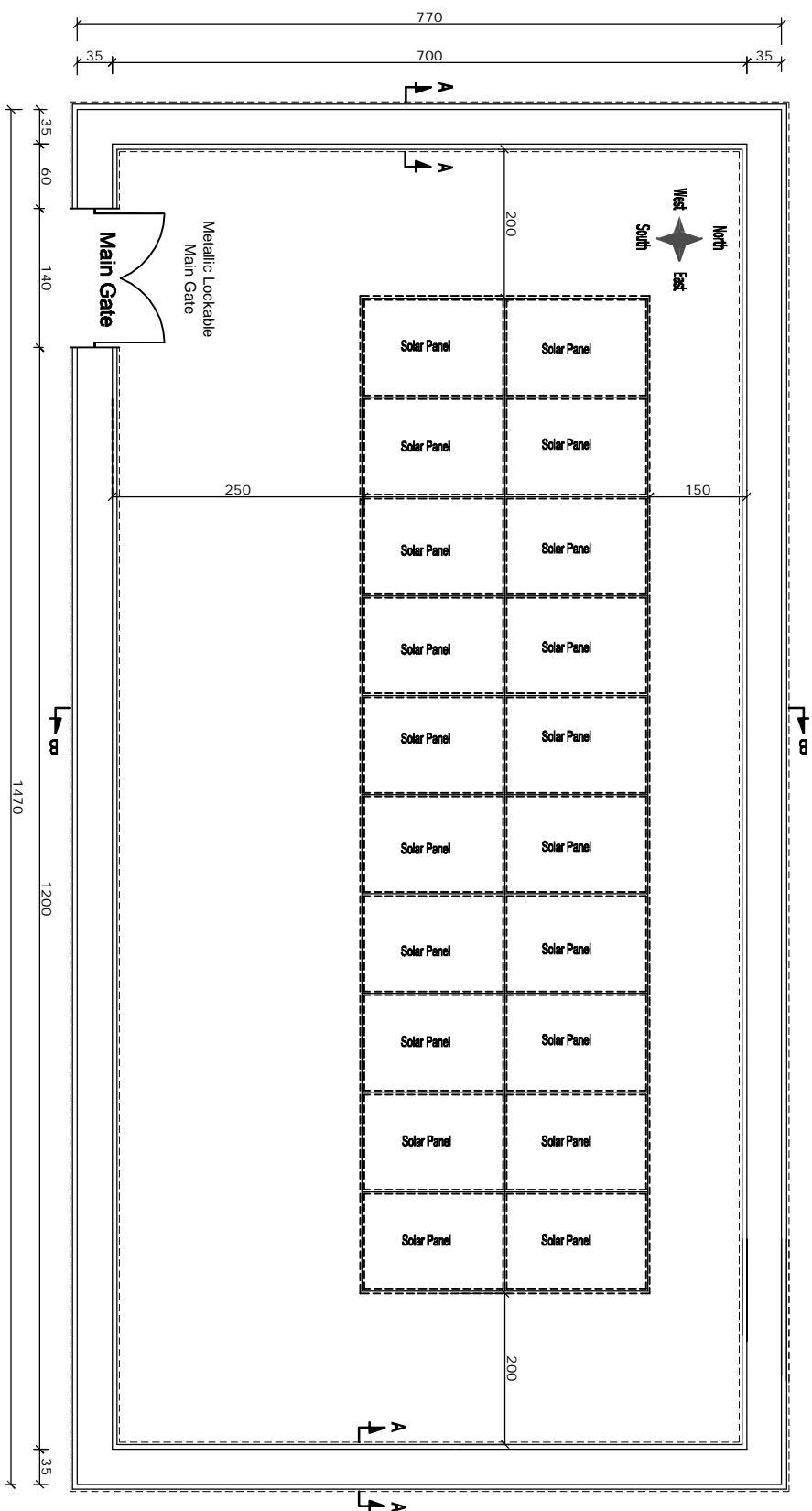
ACCESS TO SERVICES									
UNHCR SUB OFFICE MAZAR-E-SHARIF									
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DRAWING TITLE	GUARD ROOM	DISTRICT	MAZAR	E	DRAWN BY	UNHCR SOM	UNIT	A3	CM
SECTION / SHEET #	ARCHITECTURAL / 03	VILLAGE	FIRDAUSI	H	CHECKED BY	UNHCR SOM	DATE:	A2	04/19/2020
APPROVER								IMPLEMENTER	





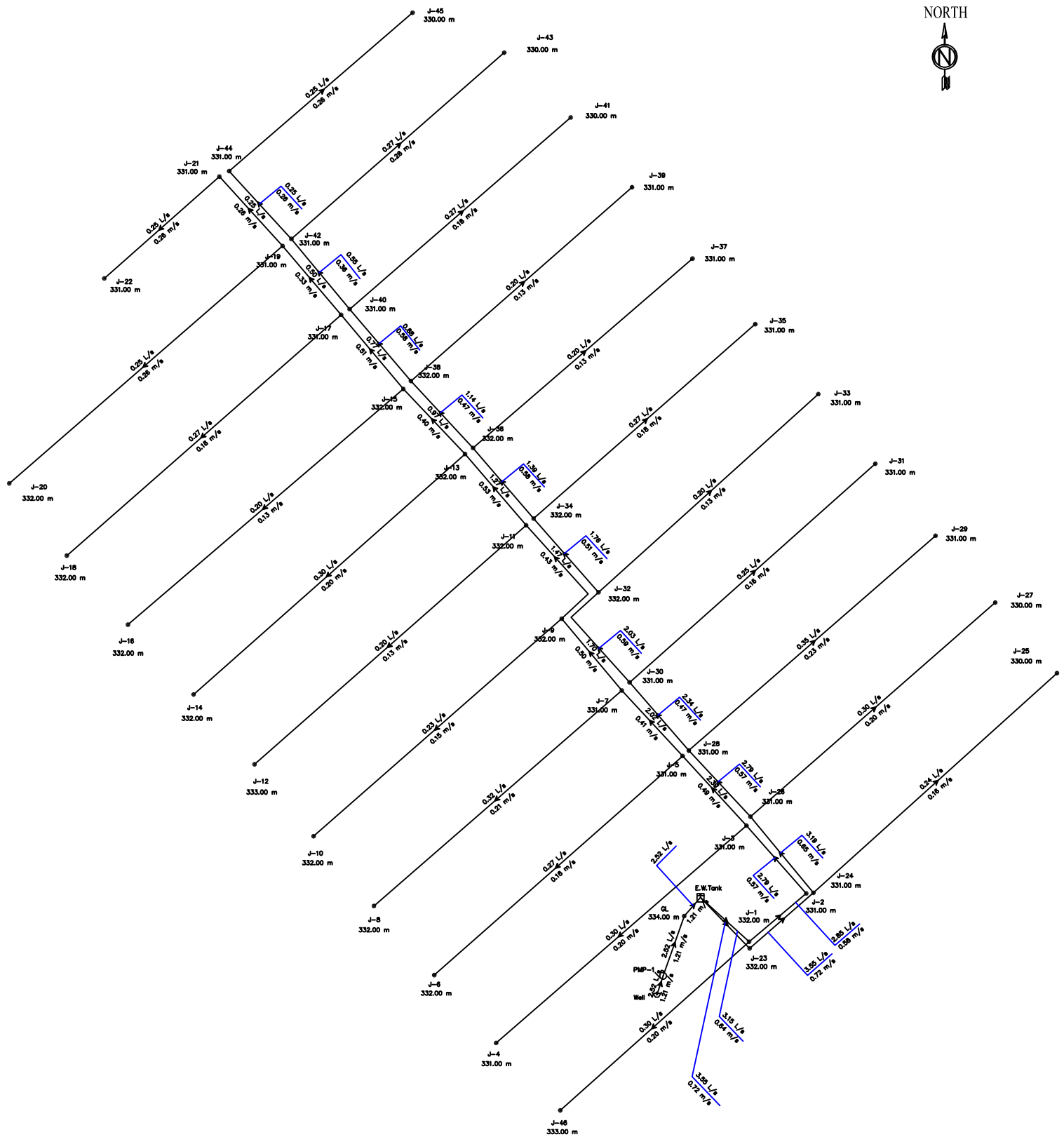
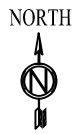
REPUBLIC OF AFGHANISTAN
 Ministry of Rural
 Rehabilitation and
 Development
MRRD
WatsIP

SURVEYED BY	Eng. Mohammad Anwar	CHECKED BY	Eng. Sayed Raif	SCALE		SHEET NO. <div>1</div> <div>2</div>	PROVINCE	Balkh	PROJECT NAME Water Supply and Sanitation DRAWING TITLE Boundary Wall Plan
DESIGNED BY	Eng. Mohammad Anwar	REVIEWED BY	Eng. Fazal Omar "Zahid"	DATE	20/08/2020		DISTRICT	Nahr Shatee	
DRAWN BY	Eng. Mohammad Anwar	APPROVED BY	Eng. Guliam Qader	DRAWING NO.		VILLAGE	New Abad Camp Sakhi		

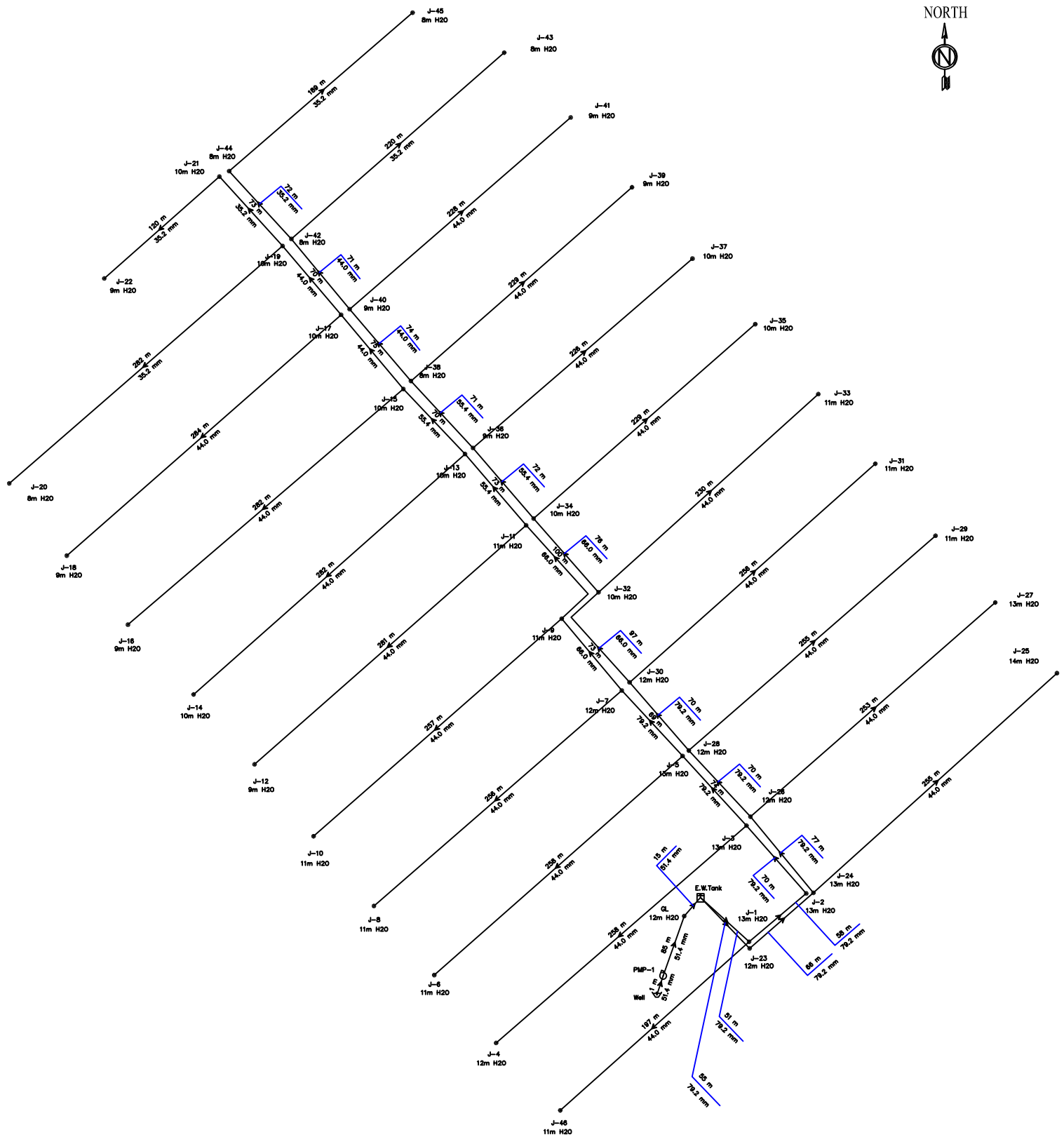


Plan of Boundary wall

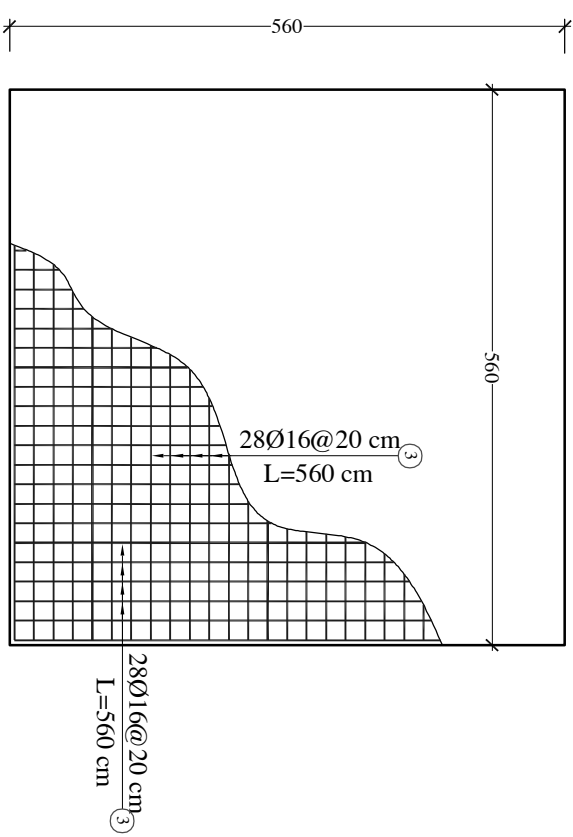
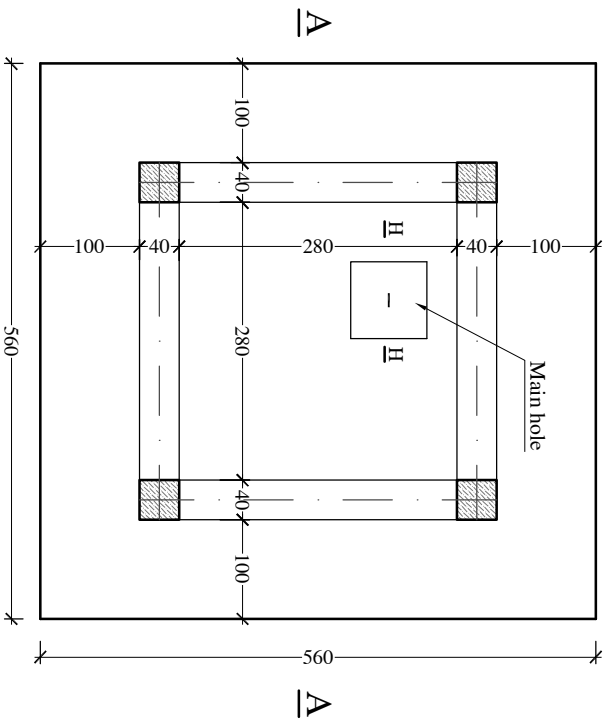
Camp Sakhee Village, Nahrishahi District , Balkh province Hydraulic design of (SPWSN)



Camp Sakhee Village, Nahrishahi District , Balkh province Hydraulic design of (SPWSN)

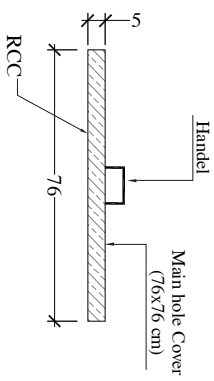
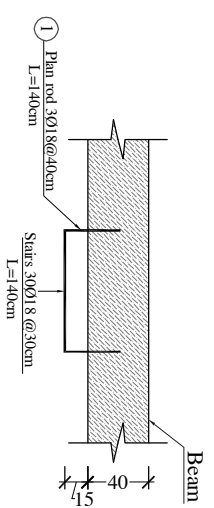


Length, Diameter and pressure



Plan

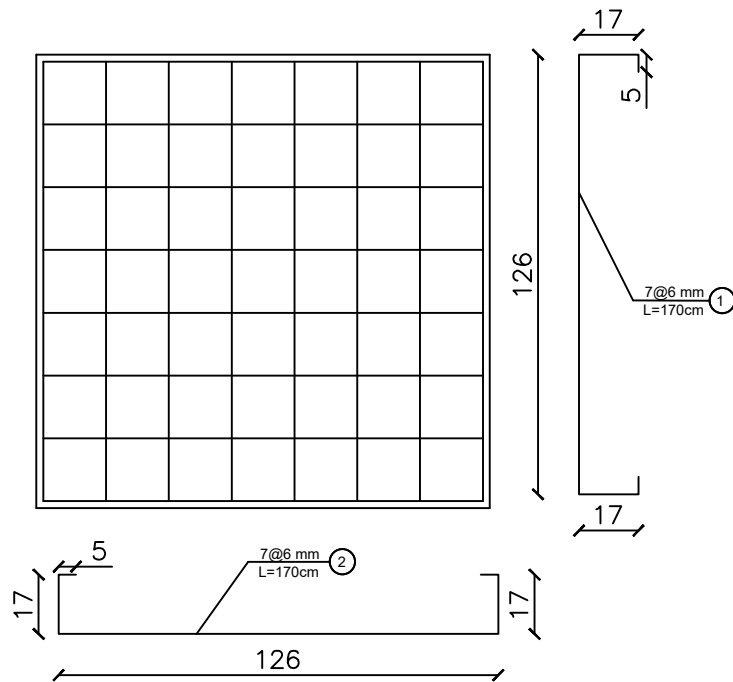
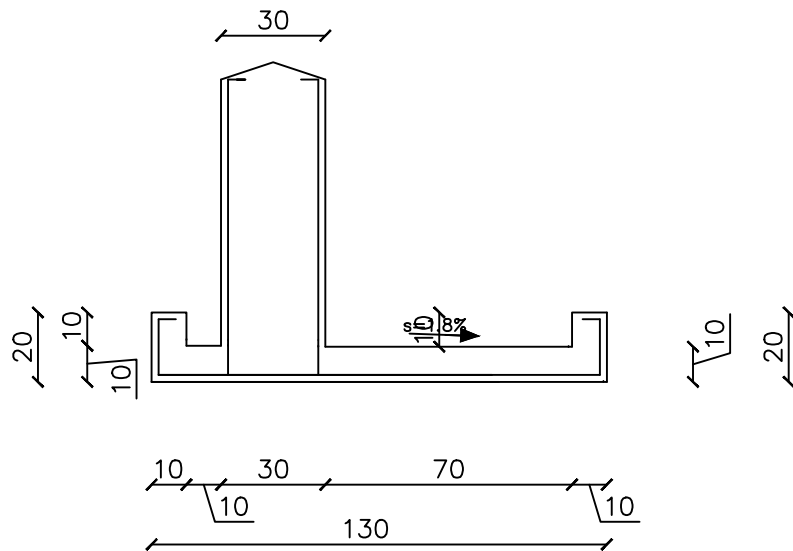
Reinforcement Plan of Footing



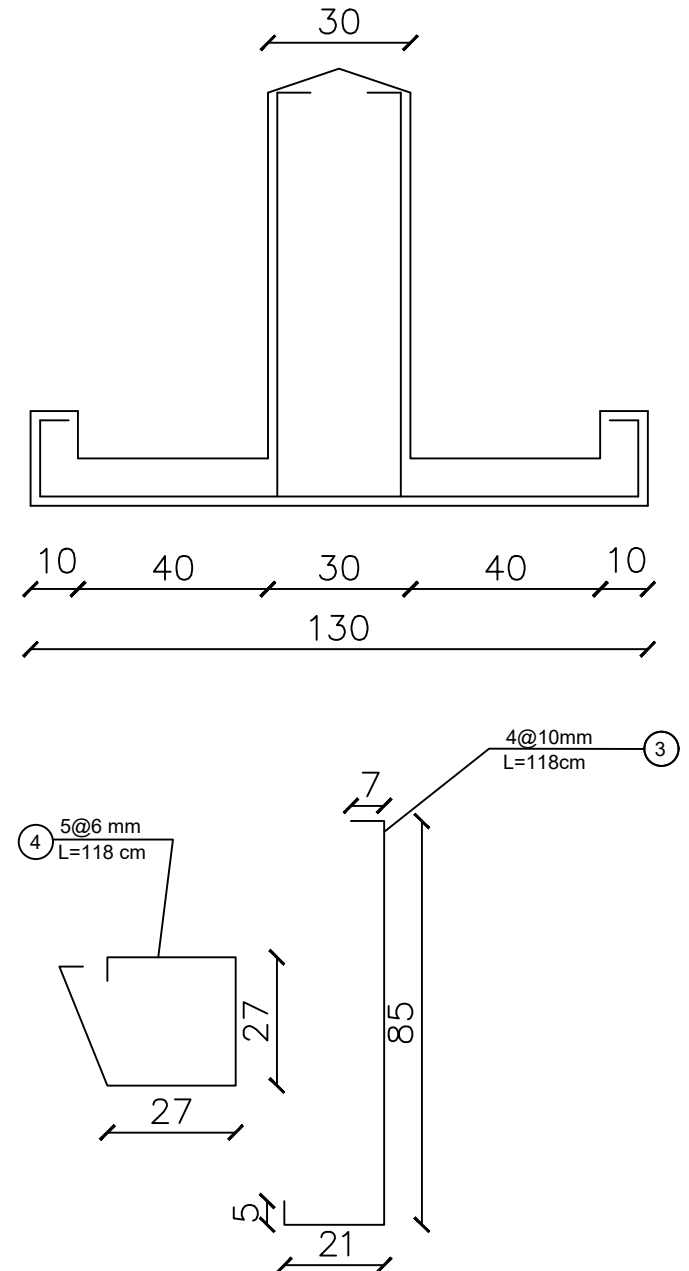
Section H-H

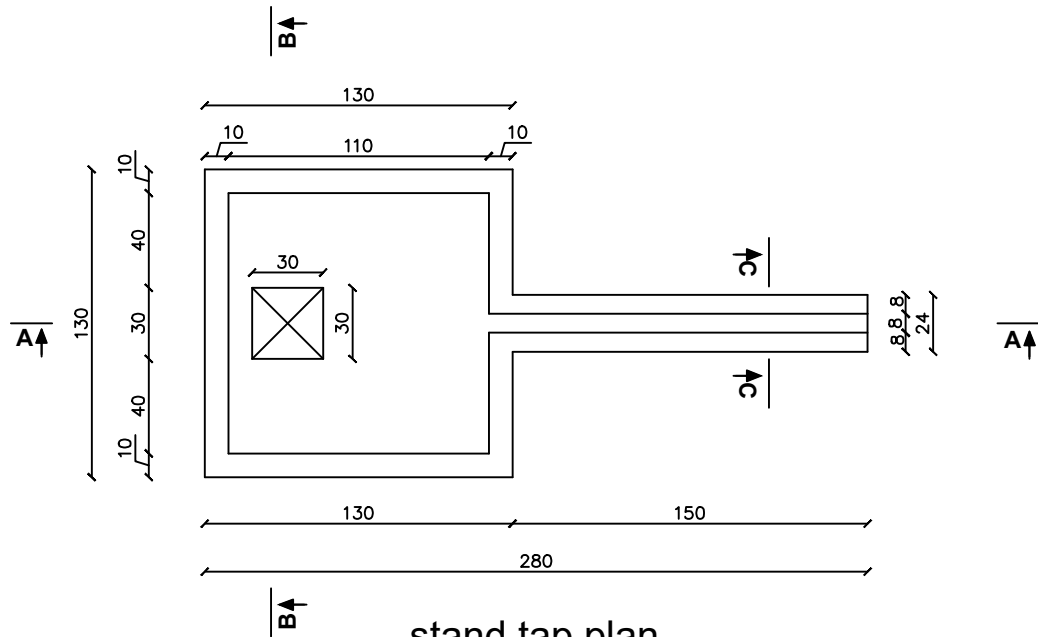
Detail - I

SURVEYED BY	Eng. Mohammad Anwar	CHECKED BY	Eng. Sayed Rauf	SCALE	20/08/2020	SHEET NO	PROVINCE	PROJECT NAME:
DESIGNED BY	Eng. Mohammad Anwar	REVIEWED BY	Eng. Fazlulomer "Zahid"	DATE	20/08/2020	S	DISTRICT	20 Cubic meter RCC Water Tank
DRAWN BY	Eng. Mohammad Anwar	APPROVED BY	Eng. Ghulam Qader	DRAWING NO.		4	VILLAGE	DRAWING TITLE
							New Abad Camp Sakhi	Plan and Reinforcement plan

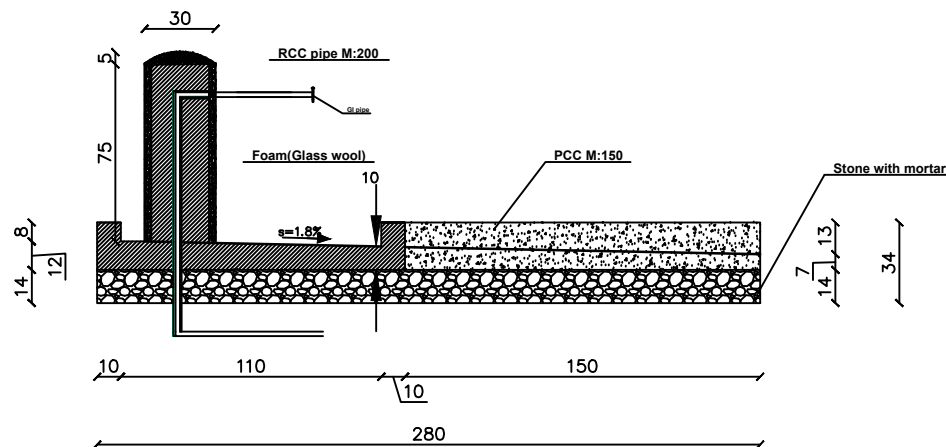


Reinforcement detail

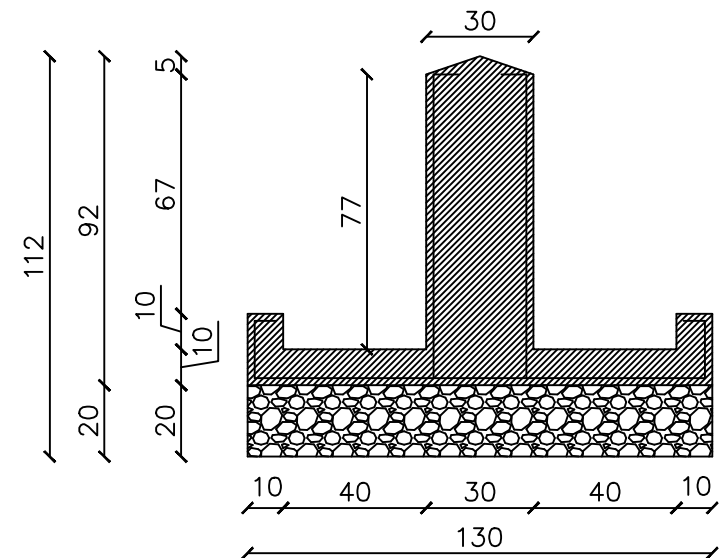




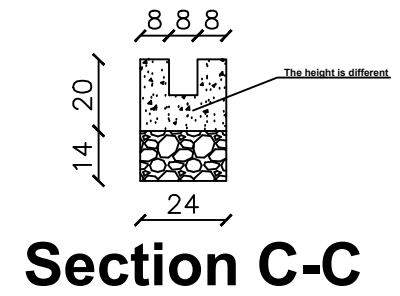
stand tap plan



Stand Tap section A-A



Section B-B



Section C-C

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*****
*                               E P A N E T                               *
*                               Hydraulic and Water Quality                 *
*                               Analysis for Pipe Networks                   *
*                               Version 2.0                                 *
*****

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North Qalinbafan second part
Pipe scheme design

Node = Joint, Pi= Pipe

Link ID	Start Node	End Node	Length m	Dia mm
Pi1	ST#2	Jn2	3	20
Pi2	Jn2	Jn5	80	32
Pi3	Jn5	ST#1	3	20
Pi4	Jn5	Jn7	80	40
Pi5	Jn7	Jn8	60	63
Pi6	Jn8	Jn13	60	63
Pi7	Jn8	Jn9	80	40
Pi8	Jn9	ST#3	3	20
Pi9	Jn9	Jn11	80	32
Pi10	Jn11	ST#4	3	20
Pi11	Jn13	Jn14	80	32
Pi12	Jn14	ST#5	3	20
Pi13	Jn14	Jn16	80	32
Pi14	Jn16	ST#6	3	20
Pi15	Jn13	Jn43	2	63
Pi17	Jn43	Jn18	60	75
Pi18	Jn18	Jn19	80	40
Pi19	Jn19	ST#7	3	20
Pi20	ST#8	Jn21	3	20
Pi21	Jn21	Jn19	80	32
Pi22	Jn18	Jn23	60	75
Pi23	Jn23	Jn24	80	40
Pi24	Jn24	Jn26	80	32
Pi25	Jn26	ST#10	3	20
Pi26	ST#9	Jn24	3	20
Pi27	Jn23	Jn28	60	63
Pi28	Jn28	Jn29	80	40
Pi29	Jn29	Jn31	80	32
Pi31	Jn29	ST#11	3	20
Pi32	Jn28	Jn33	60	63
Pi33	Jn33	Jn34	80	40
Pi34	Jn34	Jn36	80	32
Pi35	Jn36	ST#14	3	20
Pi36	ST#13	Jn34	3	20
Pi37	Jn33	Jn38	60	50
Pi38	Jn38	Jn39	80	40
Pi39	Jn39	Jn41	80	32

Link - Node Table: (continued)

Link ID	Start Node	End Node	Length m	Dia mm
Pi40	Jn41	ST#16	3	20
Pi41	ST#15	Jn39	3	20
Pi42	Jn31	ST#12	3	20
Pi30	WT	Jn1	770	90
Pi43	Jn1	Jn6	3	75
Pi44	Jn6	Jn4	60	75
Pi45	Jn4	Jn3	60	75
Pi46	Jn3	Jn15	80	50
Pi47	Jn15	Jn17	80	40
Pi48	Jn4	Jn20	80	40
Pi49	Jn20	Jn22	80	40
Pi50	WT	Jn43	160	90
Pi51	Jn6	Jn25	80	40
Pi52	Jn25	Jn27	80	32
Pi53	Jn1	Jn10	60	75
Pi54	Jn10	Jn12	60	75
Pi55	Jn12	Jn35	80	40
Pi56	Jn35	Jn37	80	40
Pi57	Jn10	Jn30	80	40
Pi58	Jn30	Jn32	80	32
Pi59	Jn15	ST#26	3	20
Pi60	Jn17	ST#25	3	20
Pi61	Jn20	ST#24	3	20
Pi62	Jn22	ST#23	3	20
Pi63	Jn25	ST#22	3	20
Pi64	Jn27	ST#21	3	20
Pi65	Jn32	ST#19	3	20
Pi66	Jn30	ST#20	3	20
Pi67	Jn35	ST#18	3	20
Pi68	Jn37	ST#17	3	20

#	Pipe diameter	Length	Remark
1	20mm	78 m	
2	32mm	880 m	
3	40mm	1120 m	
4	50mm	160 m	
5	63mm	240 m	
6	75mm	360 m	
7	90mm	930 m	
Total length		3768 m	

Node Results:

Node ID	Demand LPS	Head m	Pressure m	Quality
ST#2	0.40	9.17	5.67	0.00
Jn2	0.00	9.54	6.04	0.00
Jn5	0.00	10.55	7.05	0.00
ST#1	0.40	10.18	6.68	0.00
Jn7	0.00	11.78	8.28	0.00
Jn8	0.00	11.88	8.88	0.00
Jn9	0.00	10.65	7.65	0.00
ST#3	0.40	10.28	7.28	0.00
Jn11	0.00	9.64	6.64	0.00
ST#4	0.40	9.27	6.27	0.00
Jn13	0.00	12.25	9.75	0.00

Node Results: (continued)

Node ID	Demand LPS	Head m	Pressure m	Quality
Jn14	0.00	8.60	6.10	0.00
ST#5	0.40	8.22	5.72	0.00
Jn16	0.00	7.59	5.09	0.00
ST#6	0.40	7.26	4.76	0.00
Jn18	0.00	11.42	9.42	0.00
Jn19	0.00	10.19	8.19	0.00
ST#7	0.40	9.82	7.82	0.00
Jn21	0.00	9.18	7.18	0.00
ST#8	0.40	8.81	6.81	0.00
Jn23	0.00	10.86	9.36	0.00
Jn24	0.00	9.63	8.13	0.00
ST#9	0.40	9.25	7.75	0.00
Jn26	0.00	8.62	7.12	0.00
ST#10	0.40	8.24	6.74	0.00
Jn28	0.00	10.09	9.09	0.00
Jn29	0.00	8.86	7.86	0.00
ST#11	0.40	8.48	7.48	0.00
Jn31	0.00	7.85	6.85	0.00
ST#12	0.40	7.47	6.47	0.00
Jn33	0.00	9.72	9.22	0.00
Jn34	0.00	8.49	7.99	0.00
ST#13	0.40	8.12	7.62	0.00
Jn36	0.00	7.48	6.98	0.00
ST#14	0.40	7.11	6.61	0.00
Jn38	0.00	9.41	9.41	0.00
Jn39	0.00	8.18	8.18	0.00
ST#15	0.40	7.81	7.81	0.00
Jn41	0.00	7.17	7.17	0.00
ST#16	0.40	6.80	6.80	0.00
Jn43	0.00	12.27	9.77	0.00
Jn1	0.00	10.58	8.08	0.00
Jn3	0.00	10.39	6.39	0.00

Jn4	0.00	10.43	6.93	0.00
Jn6	0.00	10.57	7.57	0.00
Jn10	0.00	10.45	7.95	0.00
Jn12	0.00	10.41	8.41	0.00
Jn15	0.00	9.98	5.98	0.00
Jn17	0.00	9.64	5.64	0.00
Jn20	0.00	9.20	5.70	0.00
Jn22	0.00	8.86	5.36	0.00
Jn25	0.00	9.34	6.34	0.00
Jn27	0.00	8.33	5.33	0.00
Jn30	0.00	9.22	6.72	0.00
Jn32	0.00	8.21	5.71	0.00
Jn35	0.00	9.18	7.18	0.00
Jn37	0.00	8.84	6.84	0.00
ST#26	0.40	9.61	5.61	0.00

Node Results: (continued)

Node ID	Demand LPS	Head m	Pressure m	Quality
ST#25	0.40	9.26	5.26	0.00
ST#24	0.40	8.83	5.33	0.00
ST#23	0.40	8.49	4.99	0.00
ST#22	0.40	8.96	5.96	0.00
ST#21	0.40	7.95	4.95	0.00
ST#20	0.40	8.84	6.34	0.00
ST#19	0.40	7.83	5.33	0.00
ST#18	0.40	8.81	6.81	0.00
ST#17	0.40	8.47	6.47	0.00
WT	-10.40	14.50	12.00	0.0

Link Results:

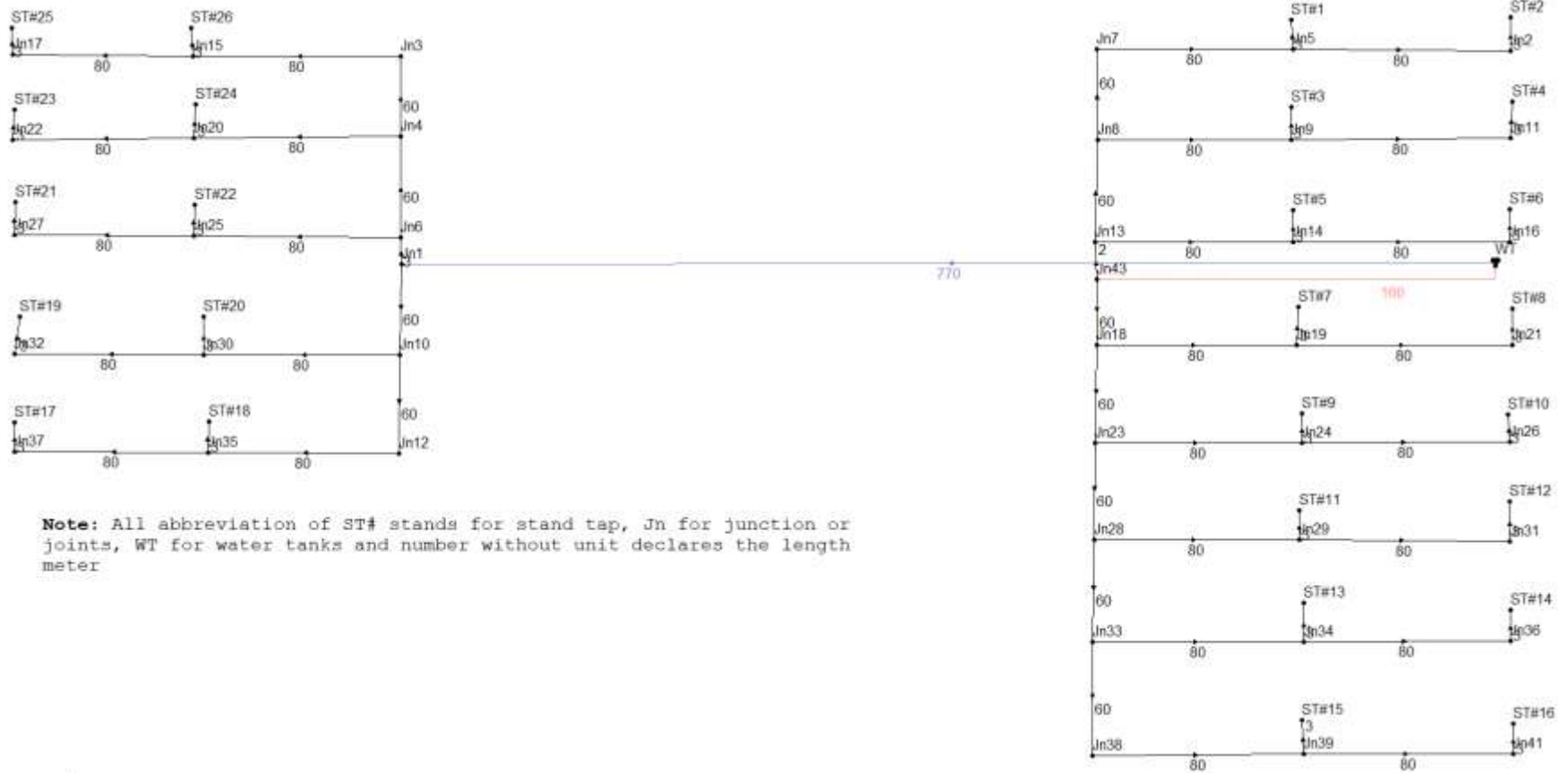
Link ID	Flow LPS	Velocity m/s	Headloss m/km	Status
Pi1	-0.40	1.27	124.65	Open
Pi2	-0.40	0.50	12.63	Open
Pi3	0.40	1.27	124.65	Open
Pi4	-0.80	0.64	15.38	Open
Pi5	-0.80	0.26	1.68	Open
Pi6	-1.60	0.51	6.07	Open
Pi7	0.80	0.64	15.38	Open
Pi8	0.40	1.27	124.65	Open
Pi9	0.40	0.50	12.63	Open
Pi10	0.40	1.27	124.65	Open
Pi11	0.80	0.99	45.60	Open
Pi12	0.40	1.27	124.65	Open
Pi13	0.40	0.50	12.63	Open
Pi14	0.40	1.27	108.67	Open
Pi15	-2.40	0.77	12.87	Open
Pi17	4.00	0.91	14.18	Open
Pi18	0.80	0.64	15.38	Open

Pi19	0.40	1.27	124.65	Open
Pi20	-0.40	1.27	124.65	Open
Pi21	-0.40	0.50	12.63	Open
Pi22	3.20	0.72	9.38	Open
Pi23	0.80	0.64	15.38	Open
Pi24	0.40	0.50	12.63	Open
Pi25	0.40	1.27	124.65	Open
Pi26	-0.40	1.27	124.65	Open
Pi27	2.40	0.77	12.87	Open
Pi28	0.80	0.64	15.38	Open
Pi29	0.40	0.50	12.63	Open
Pi31	0.40	1.27	124.65	Open
Pi32	1.60	0.51	6.07	Open
Pi33	0.80	0.64	15.38	Open

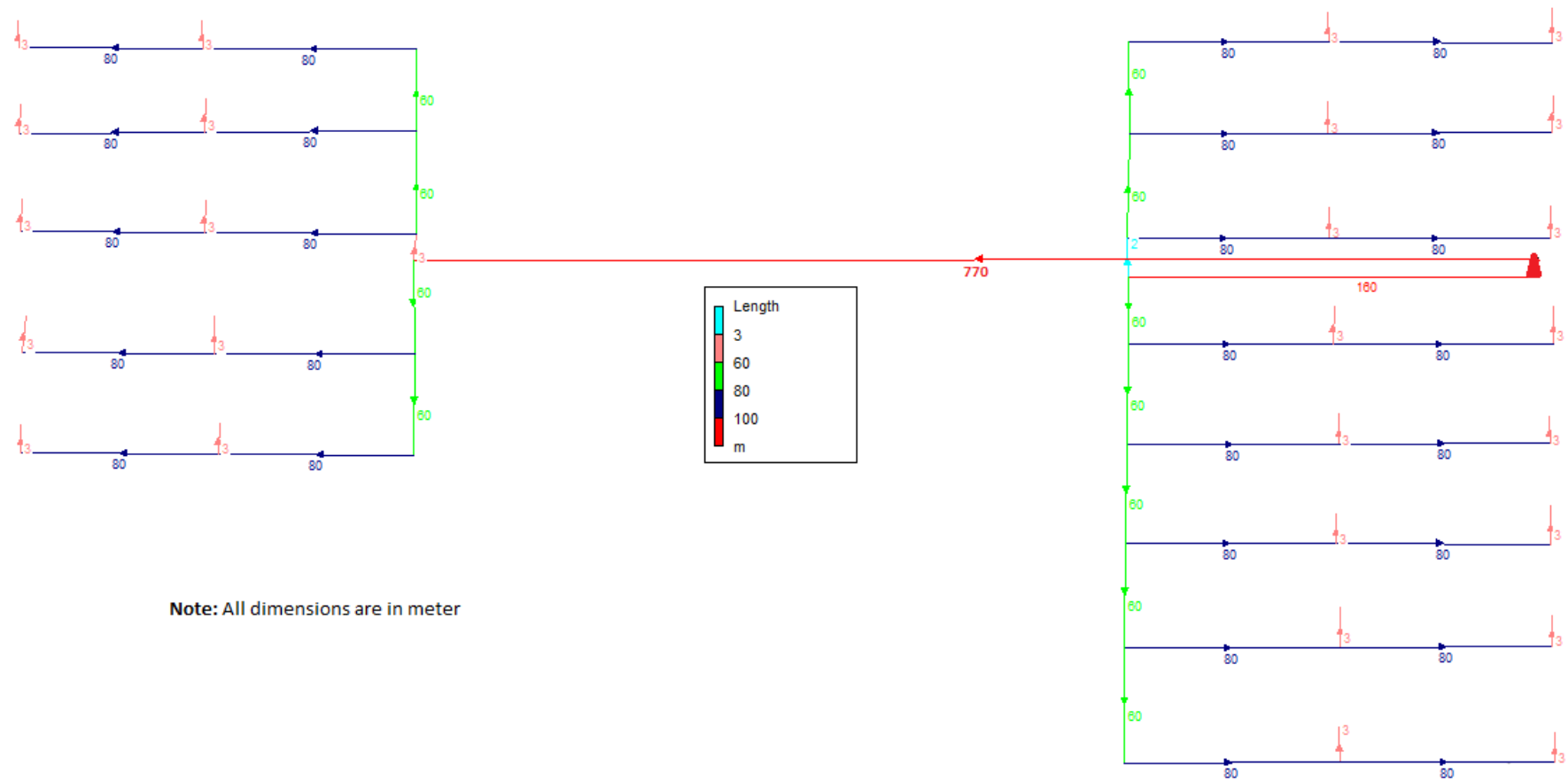
Link Results: (continued)

Link ID	Flow LPS	Velocity m/s	Unit Head m/km	Status
Pi34	0.40	0.50	12.63	Open
Pi35	0.40	1.27	124.65	Open
Pi36	-0.40	1.27	124.65	Open
Pi37	0.80	0.41	5.19	Open
Pi38	0.80	0.64	15.38	Open
Pi39	0.40	0.50	12.63	Open
Pi40	0.40	1.27	124.65	Open
Pi41	-0.40	1.27	124.65	Open
Pi42	0.40	1.27	124.65	Open
Pi30	4.00	0.63	5.09	Open
Pi43	2.40	0.54	5.50	Open
Pi44	1.60	0.36	2.26	Open
Pi45	0.80	0.18	0.63	Open
Pi46	0.80	0.41	5.19	Open
Pi47	0.40	0.32	4.26	Open
Pi48	0.80	0.64	15.38	Open
Pi49	0.40	0.32	4.26	Open
Pi50	6.40	1.01	13.93	Open
Pi51	0.80	0.64	15.38	Open
Pi52	0.40	0.50	12.63	Open
Pi53	1.60	0.36	2.26	Open
Pi54	0.80	0.18	0.63	Open
Pi55	0.80	0.64	15.38	Open
Pi56	0.40	0.32	4.26	Open
Pi57	0.80	0.64	15.38	Open
Pi58	0.40	0.50	12.63	Open
Pi59	0.40	1.27	124.65	Open
Pi60	0.40	1.27	124.65	Open
Pi61	0.40	1.27	124.65	Open
Pi62	0.40	1.27	124.65	Open
Pi63	0.40	1.27	124.65	Open
Pi64	0.40	1.27	124.65	Open
Pi65	0.40	1.27	124.65	Open
Pi66	0.40	1.27	124.65	Open
Pi67	0.40	1.27	124.65	Open
Pi68	0.40	1.27	124.65	Open

Pipe scheme

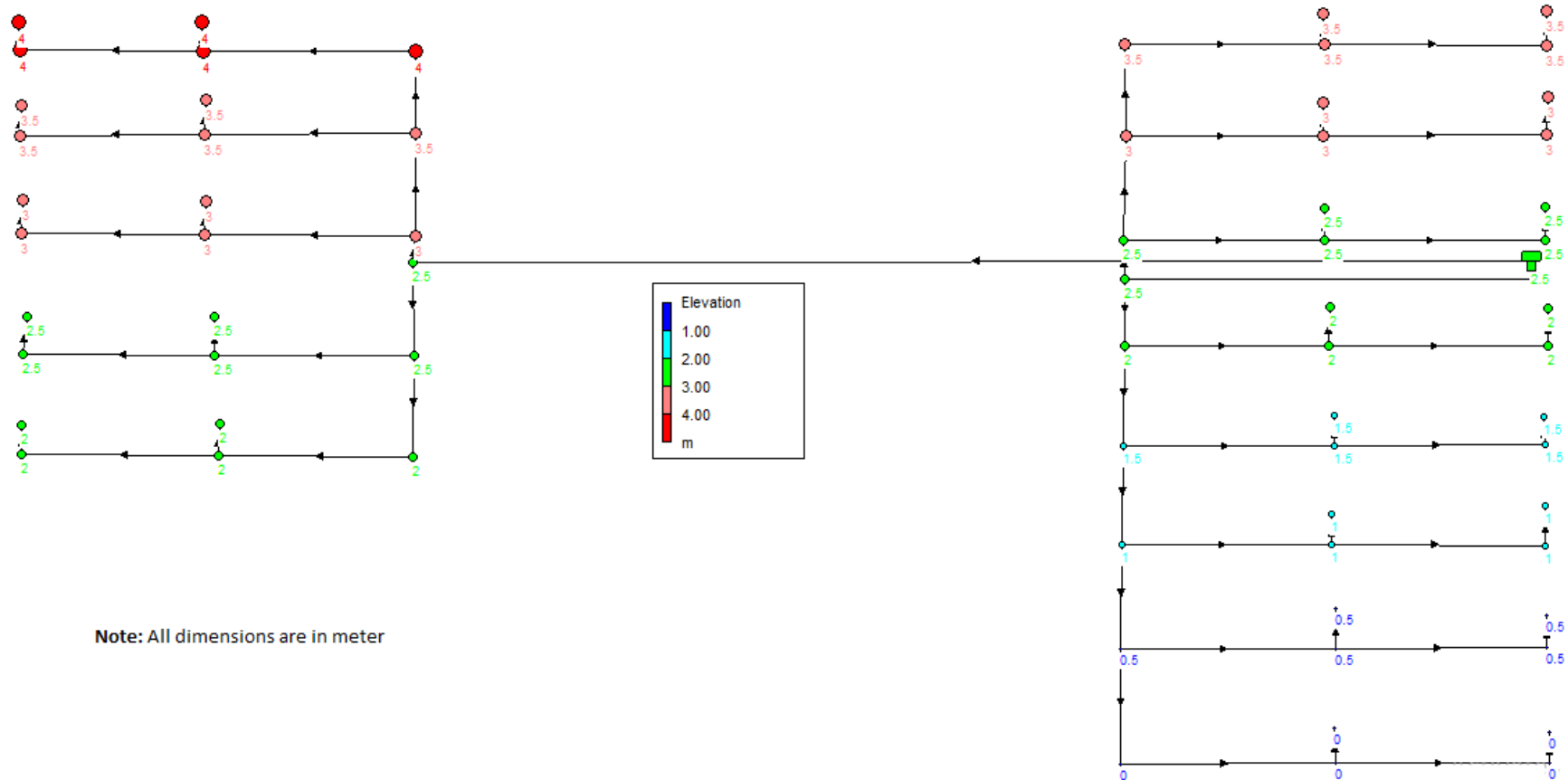


Length profile

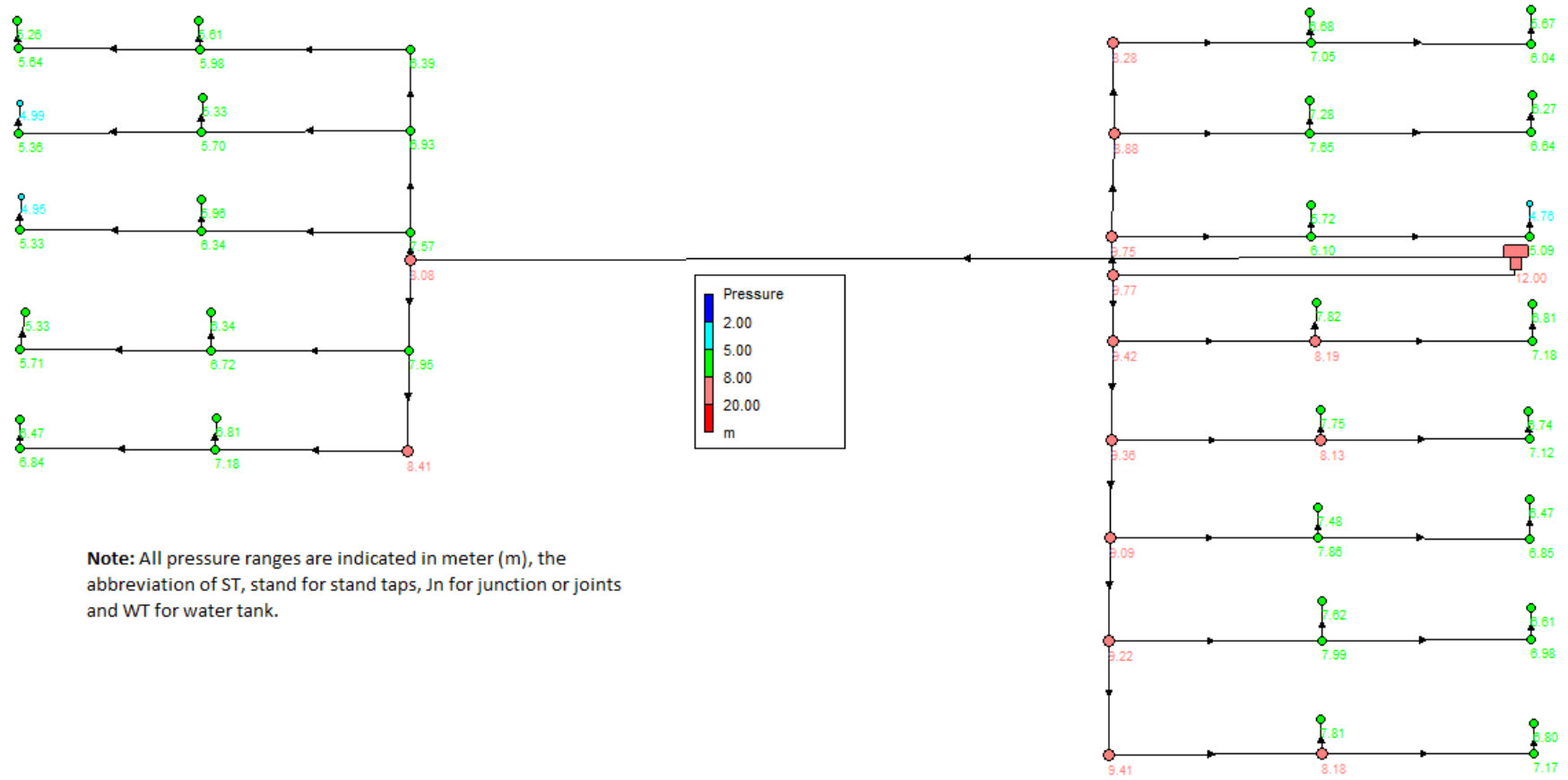


Note: All dimensions are in meter

Exist ground elevation profile

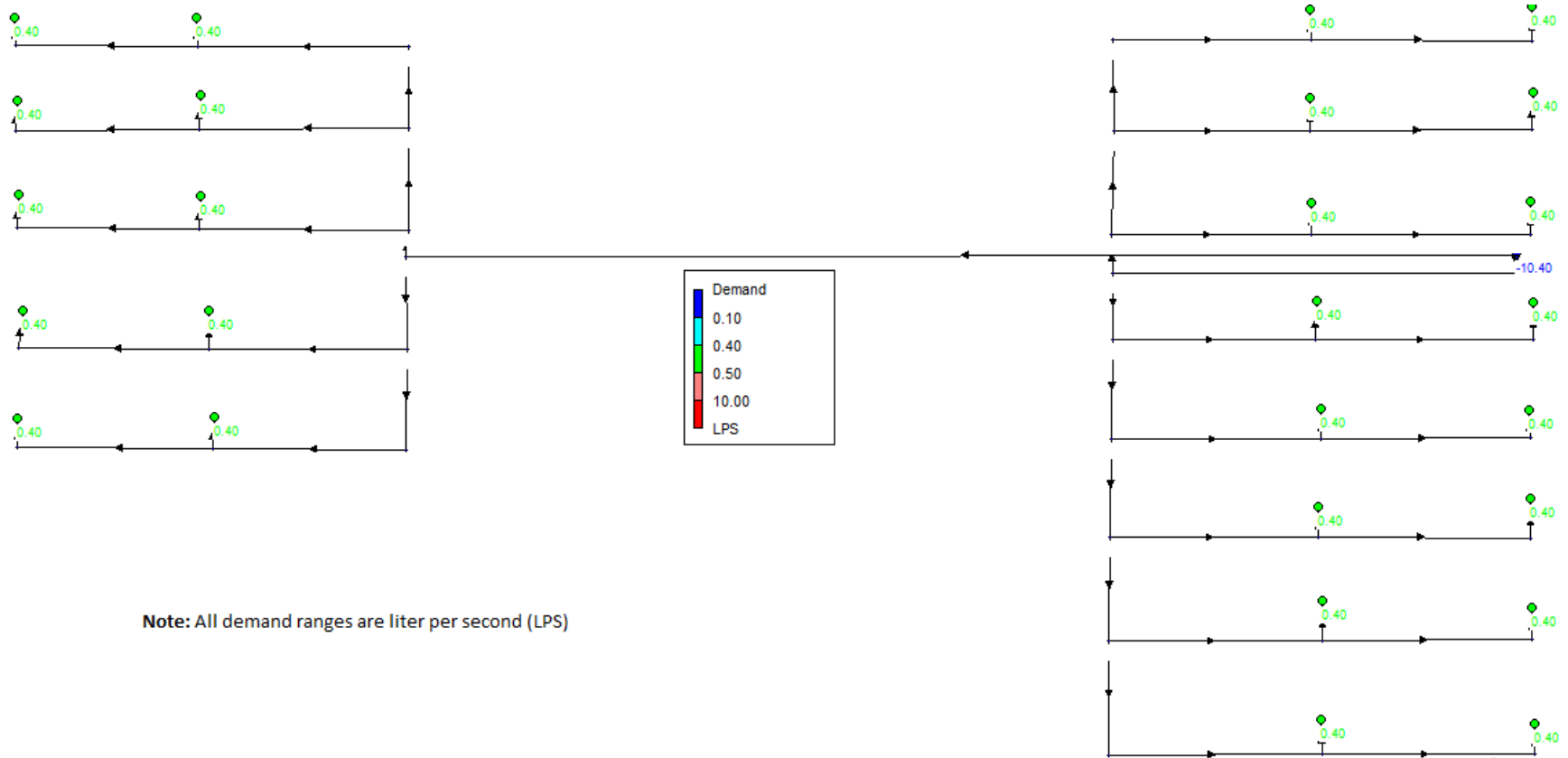


Pressure profile



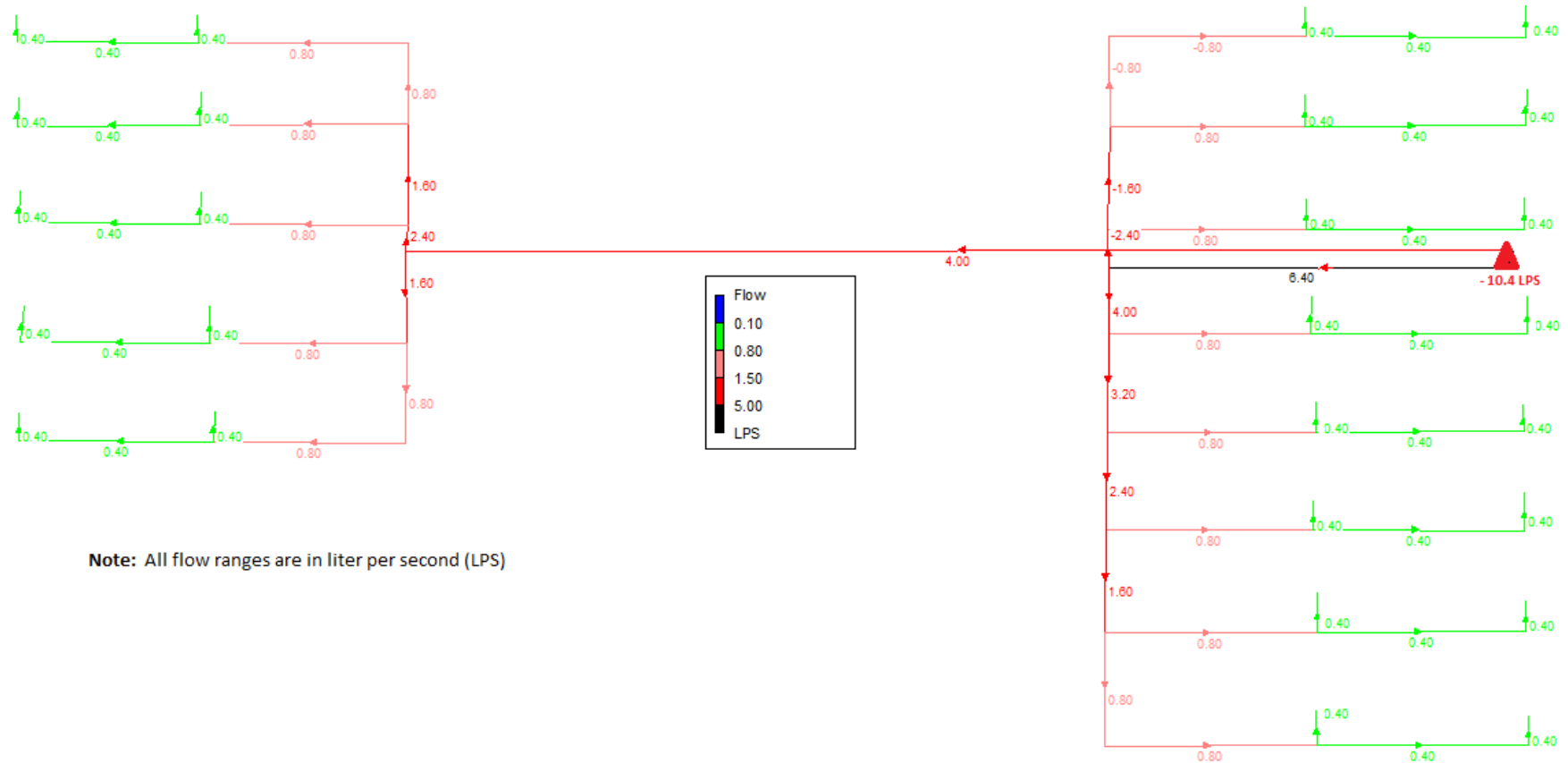
Note: All pressure ranges are indicated in meter (m), the abbreviation of ST, stand for stand taps, Jn for junction or joints and WT for water tank.

Demand profile



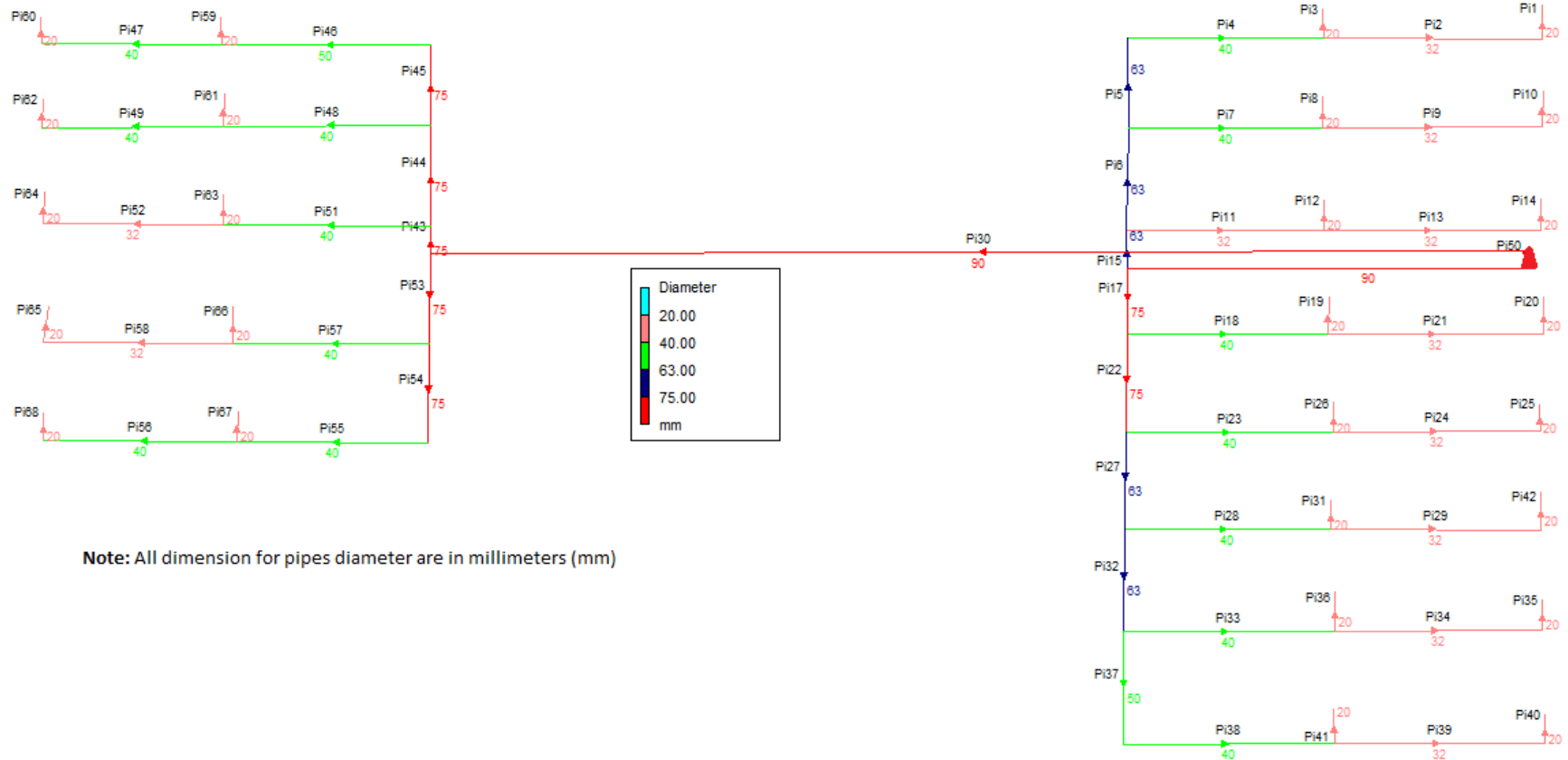
Note: All demand ranges are liter per second (LPS)

Flow profile

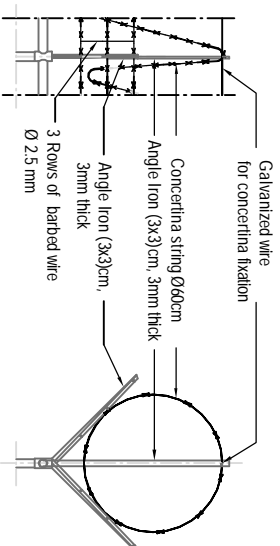
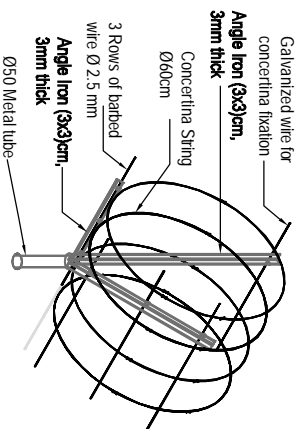
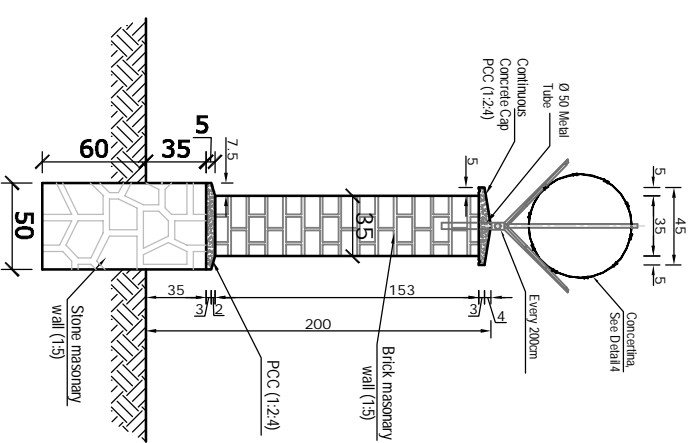
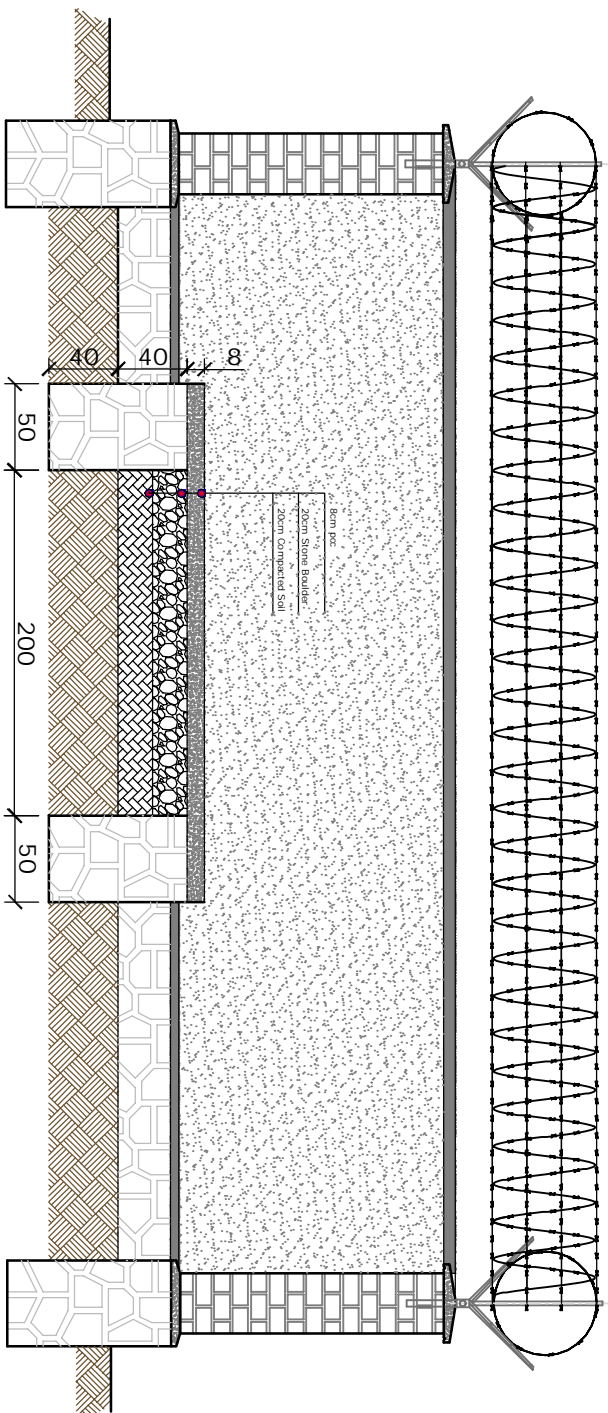



Note: All flow ranges are in liter per second (LPS)

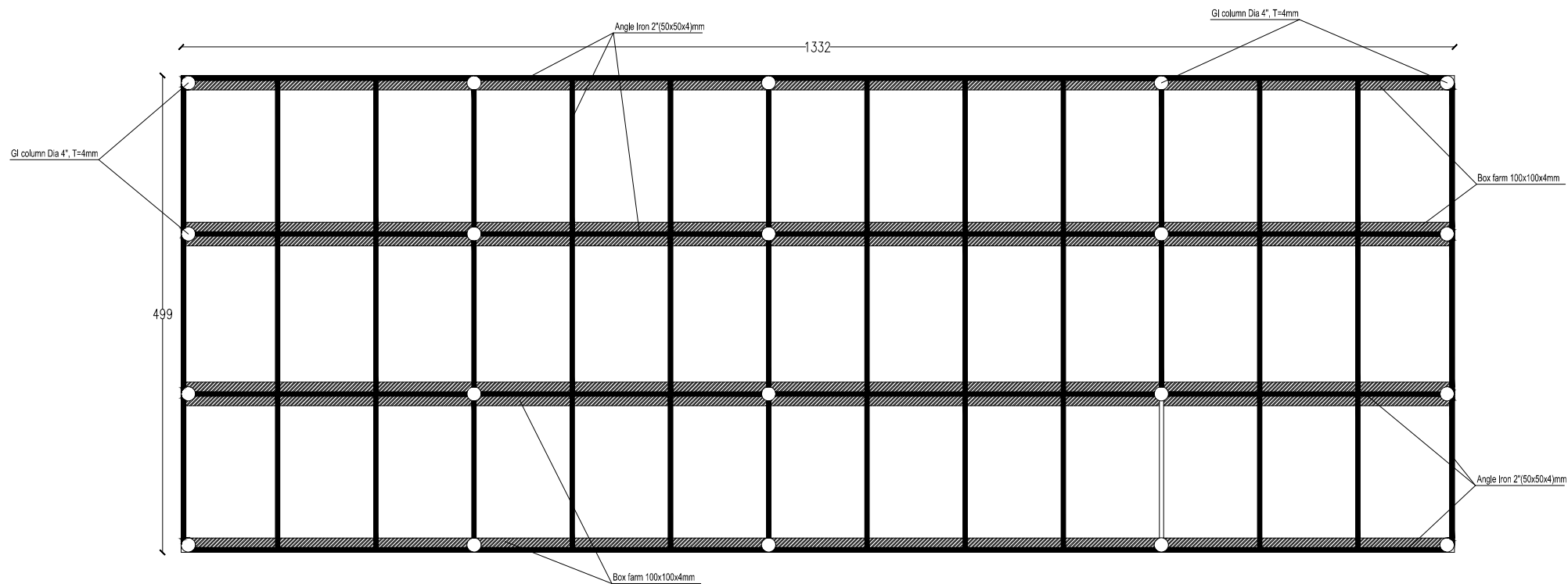
Diameter profile



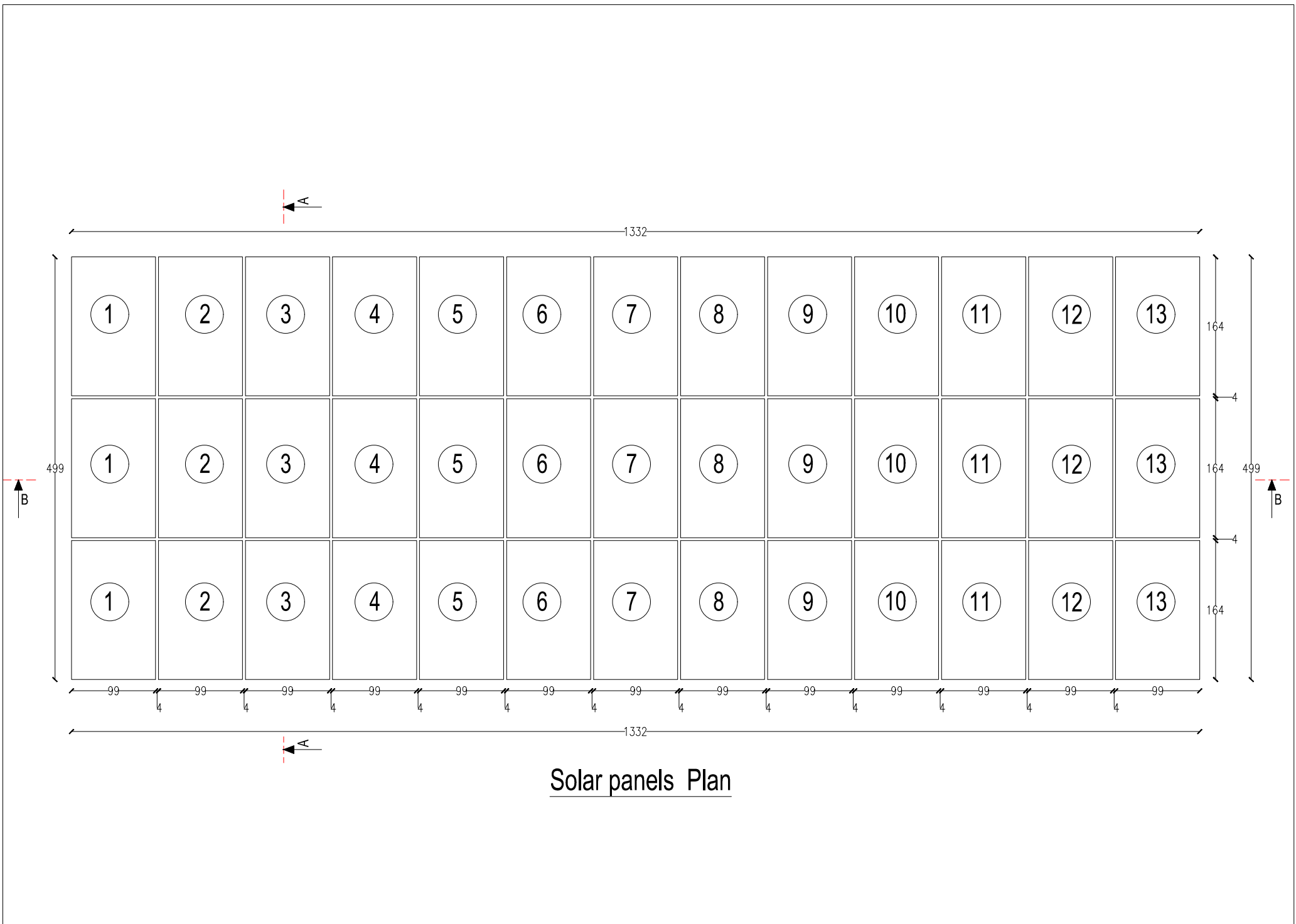
Note: All dimension for pipes diameter are in millimeters (mm)



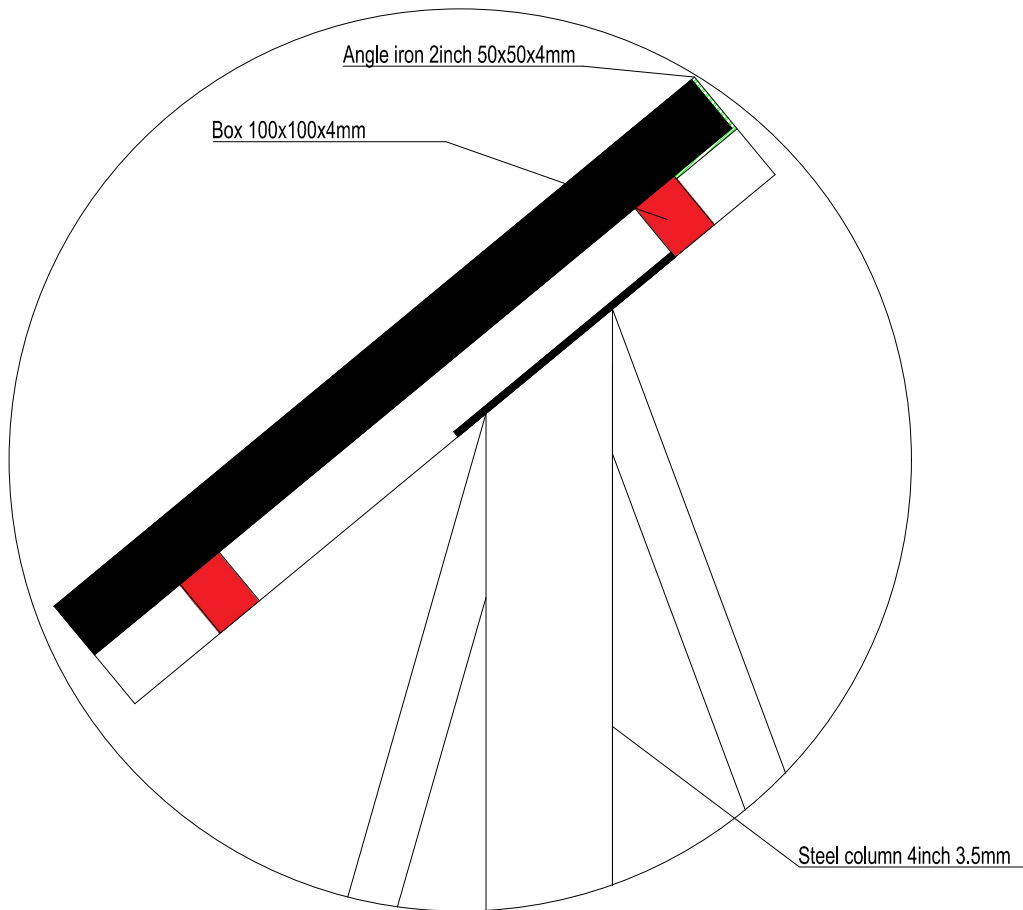
 ISLAMIC REPUBLIC OF AFGHANISTAN		Ministry of Rural Rehabilitation and Development		WatsIP	
SURVEYED BY	Eng. Mohammad Anwar	CHECKED BY	Eng. Sayed Rauf	SCALE	
DESIGNED BY	Eng. Mohammad Anwar	REVIEWED BY	Eng. Fazel Omar "Zahid"	DATE	20/08/2020
DRAWN BY	Eng. Mohammad Anwar	APPROVED BY	Eng. Ghulam Qader	DRAWING NO.	
				SHEET NO.	2
		PROVINCE	Balkh	PROJECT NAME Water Supply and Sanitation	
		DISTRICT	Nahr Shabee		
		VILLAGE	New Abad Camp Sakhi	DRAWING TITLE Boundary wall for solar panels	



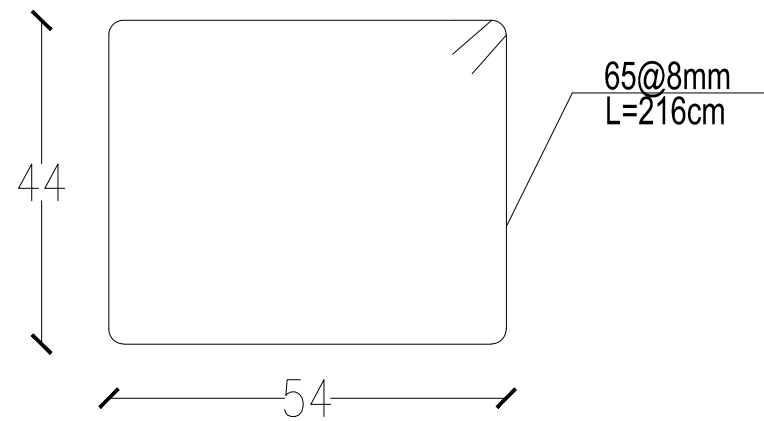
Details of Solar Panels Stands Frame

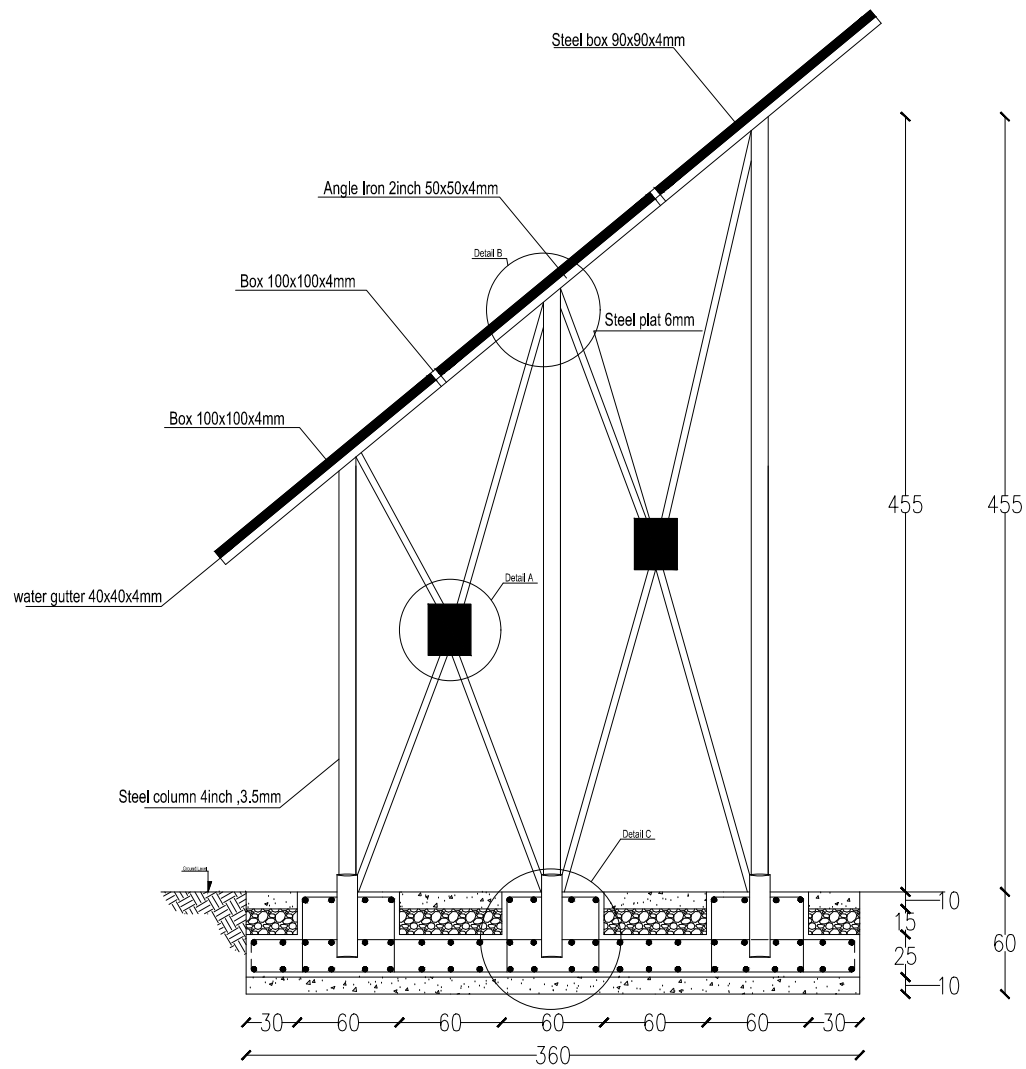


Solar panels Plan

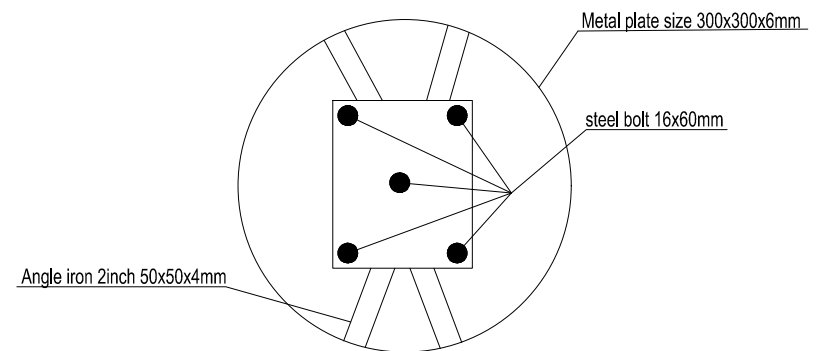
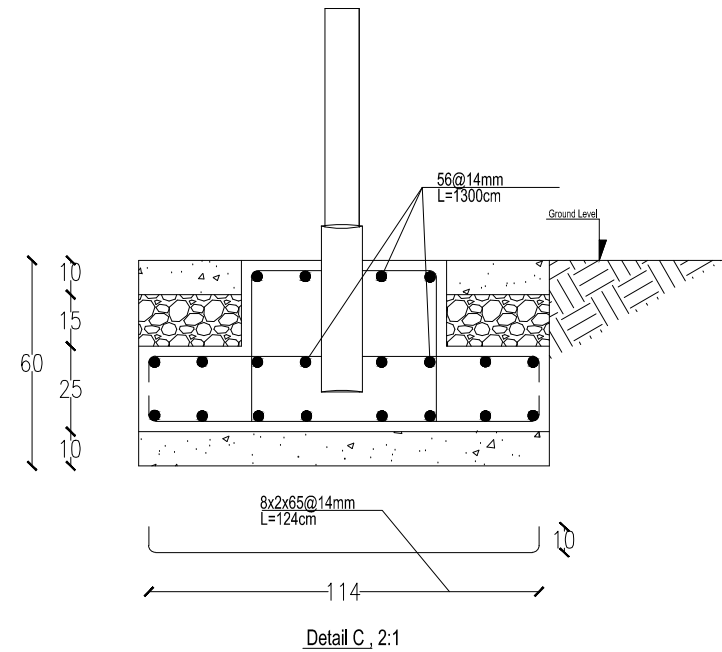


Detail B , 2:1

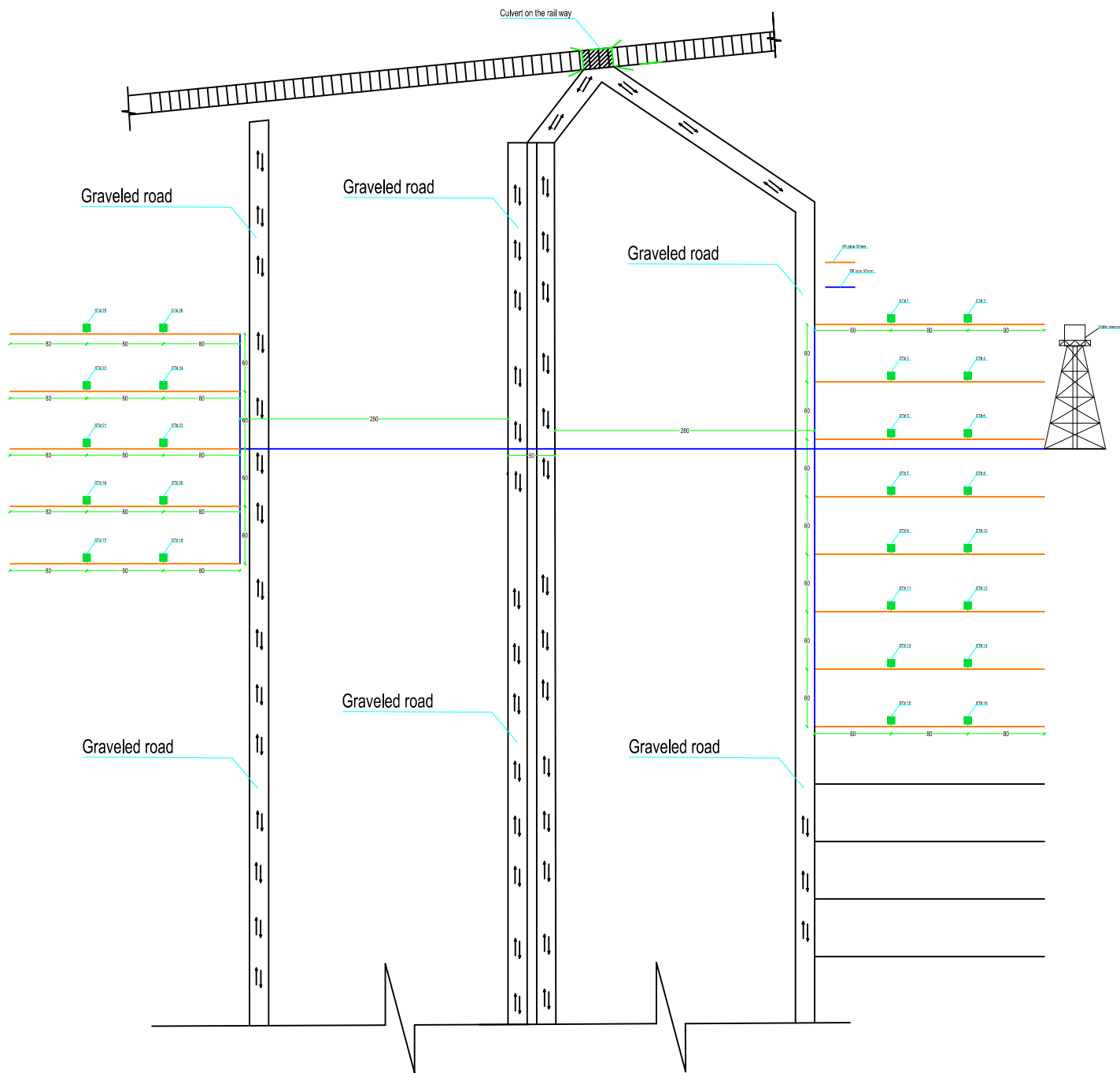




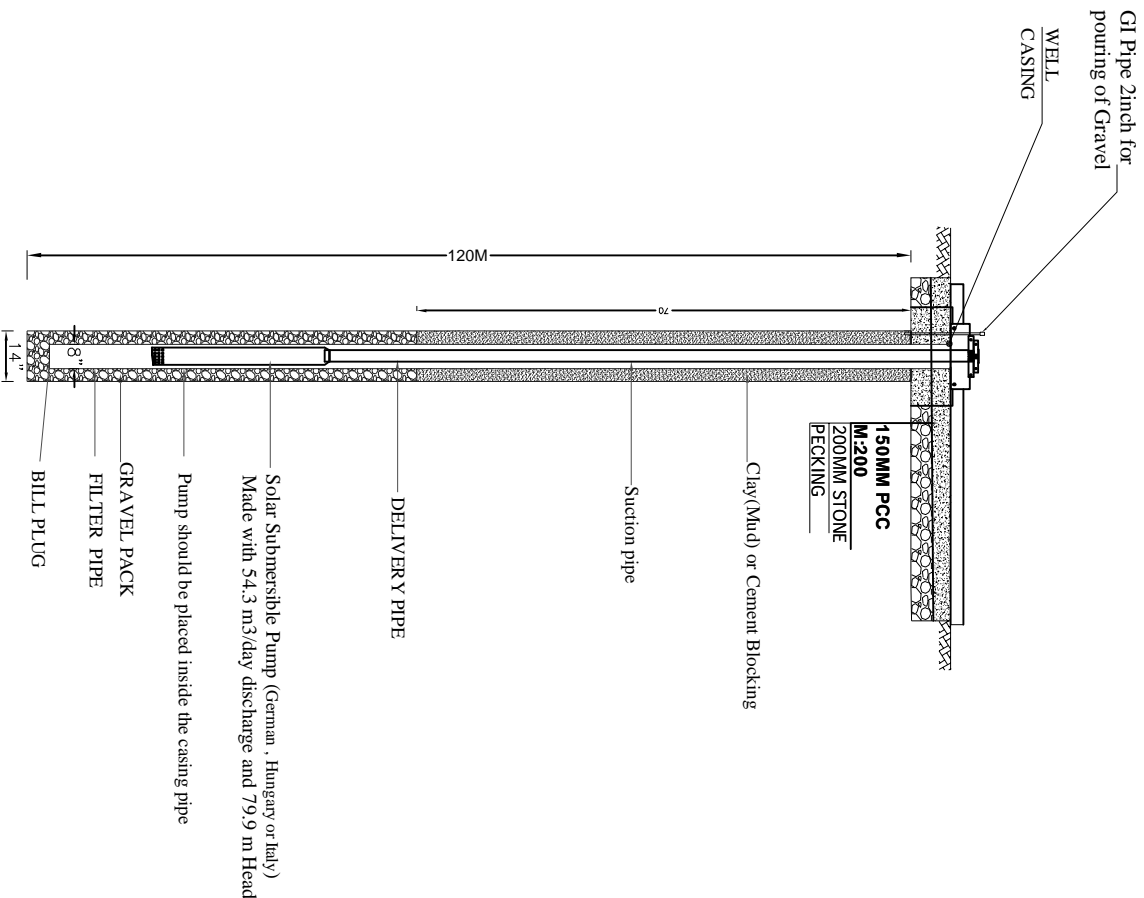
Section A-A



Detail A , 2:1



WELL SECTION

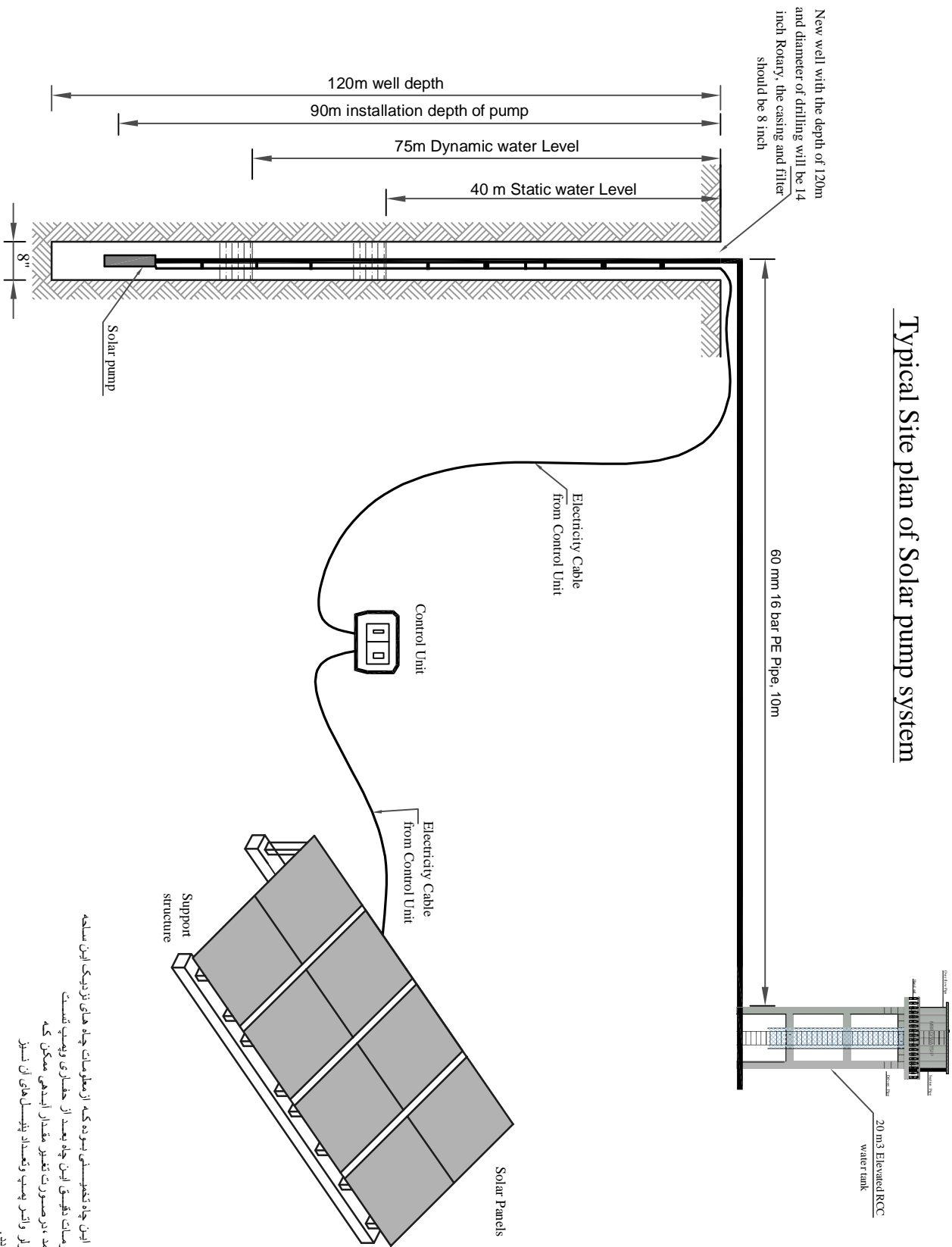


Notes


- 1-Each drilled strata depth should be noted and soil sample should be kept in a sample box separately .
- 2-Pump test for 8 hours.
- 3-the depth of filter pipe has considered based on the previous experience . the true depth will be determined after well practical drilling.

AFGHANISTAN Ministry of Rural Rehabilitation and Development		SURVEYED BY Eng. Mohammad Anwar		CHECKED BY Eng. Sayed Rauf		SCALE		PROVINCE Balkh		PROJECT NAME: Drilling of Well	
WATSIP		DESIGNED BY Eng. Mohammad Anwar		REVIEWED BY Eng. Fazalomer "Zahid"		DATE 20 / 8 /2020		DISTRICT Nahre Shahi		DRAWING TITLE: WELL SECTION	
KARUT		DRAWN BY Eng. Mohammad Anwar		APPROVED BY Eng. Ghulam Qader		SHEET 1		VILLAGE Naw Abad Camp Sakhi			

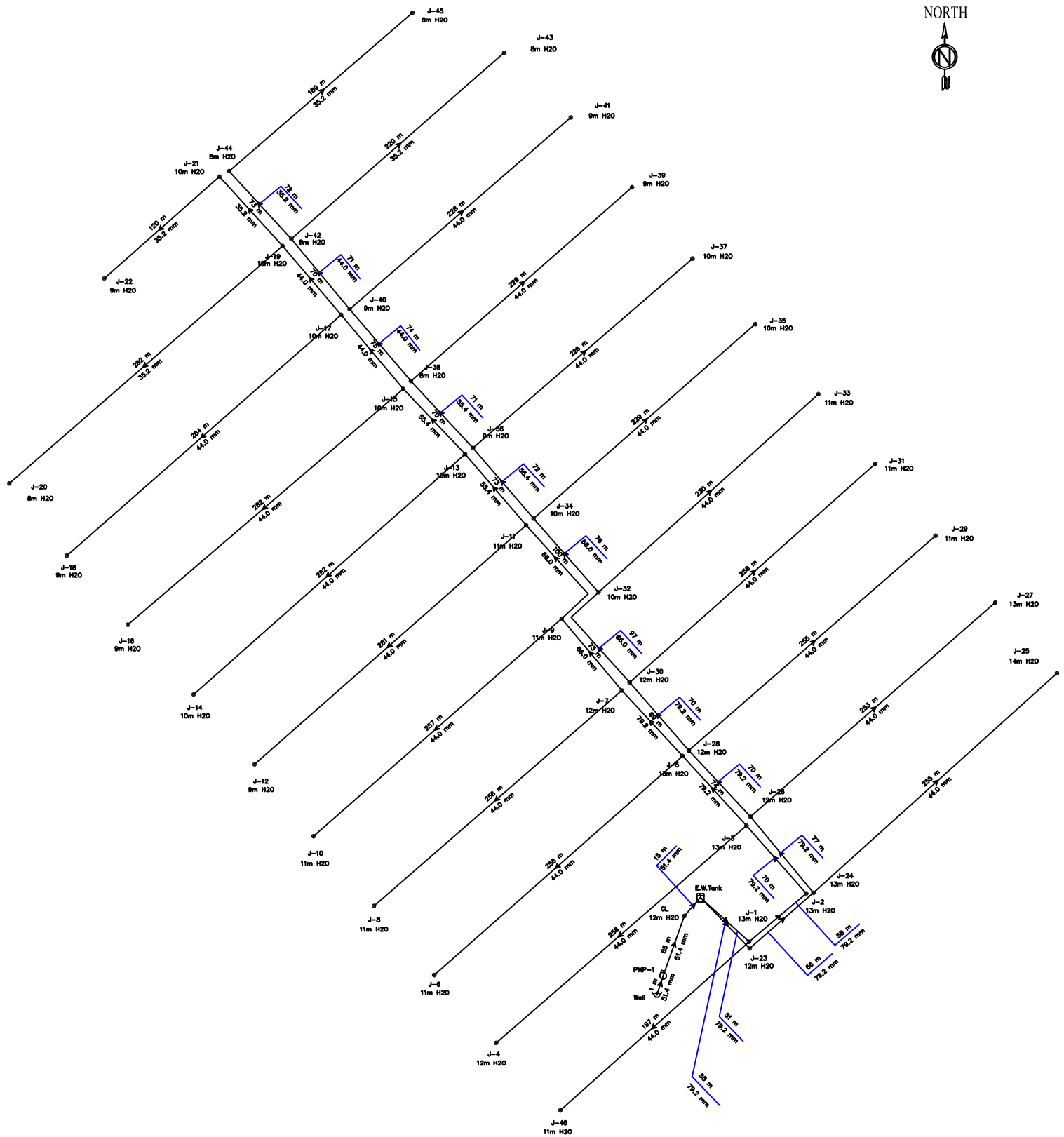
Typical Site plan of Solar pump system



تصویر
تصاویر ارقام برای این چاه تکمیل شده بود که از اطلاعات چاه های نزدیک این سالحه
اخذ گردیده و معلومات دقیق این چاه بعد از حفاری و پمپ تست
آن به دست خواهد آمد در صورت تغییر مقدار آبدهی ممکن که
در مشخصات معمولی واتر پمپ و تعداد پیستل های آن نیز
تغییر و وضا گردد .

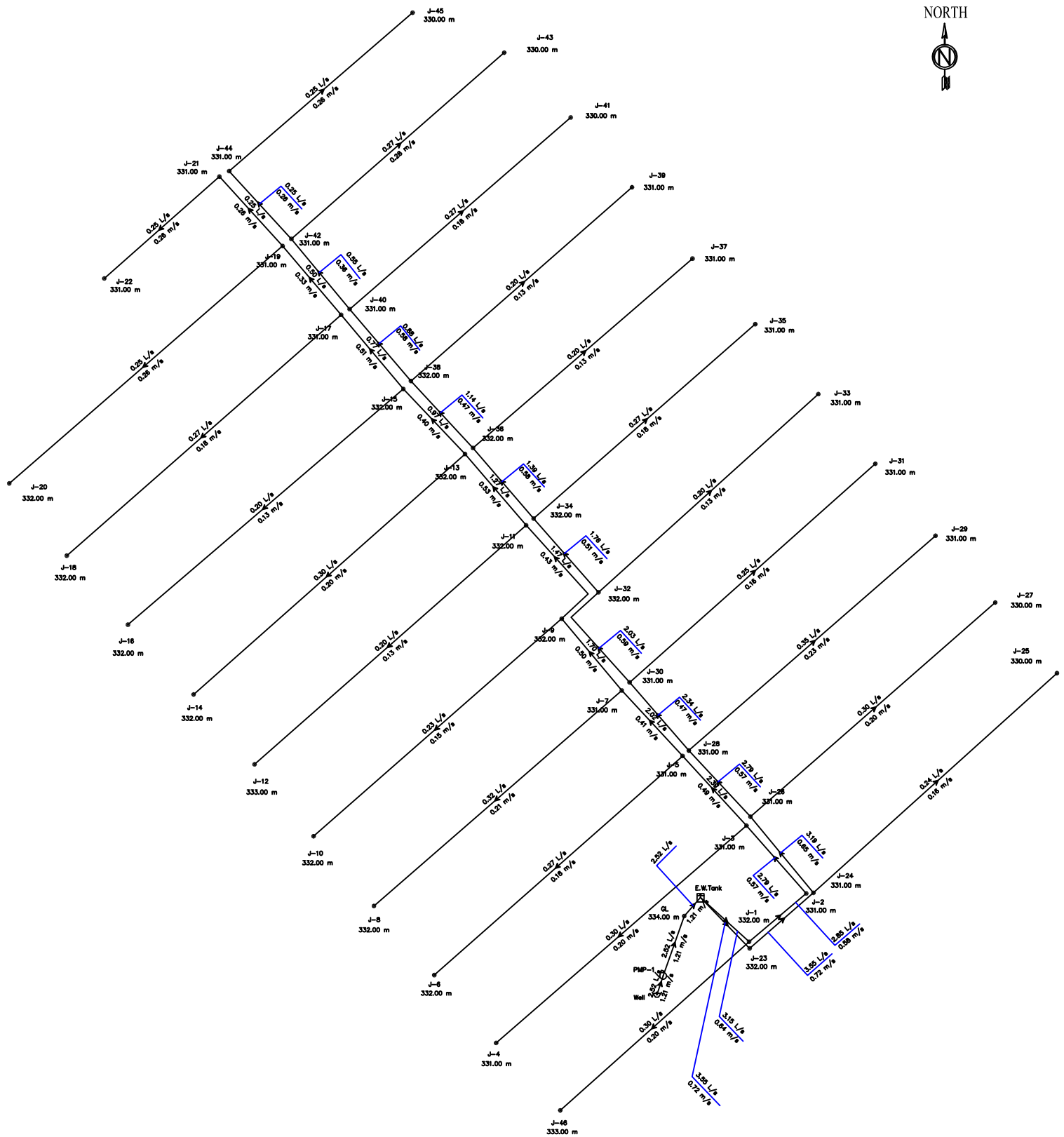
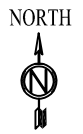
 MRRD Ministry of Rural Rehabilitation and Development WatsIP		TIS AFGHANISTAN	
DESIGNED BY	Eng. Mohammad Anwar "Ahmadi"	CHECKED BY	Eng. Sayed Rauf "Sadat"
DRAWN BY	Eng. Mohammad Anwar "Ahmadi"	REVIEWED BY	Eng. Fazlouner "Zahid"
	Eng. Mohammad Anwar "Ahmadi"	APPROVED BY	Eng. Ghulam Qader
SCALE	DATE	SHEET NO.	PROVINCE
	21-08-2020	1	Balkh
			DISTRICT
			Nahre Shahi
			VILLAGE
			Naw Abid Camp Sakhi
PROJECT NAME		DRAWING TITLE	
Tube well with Solar Pump		Site Plan of solar pump and Tube well	

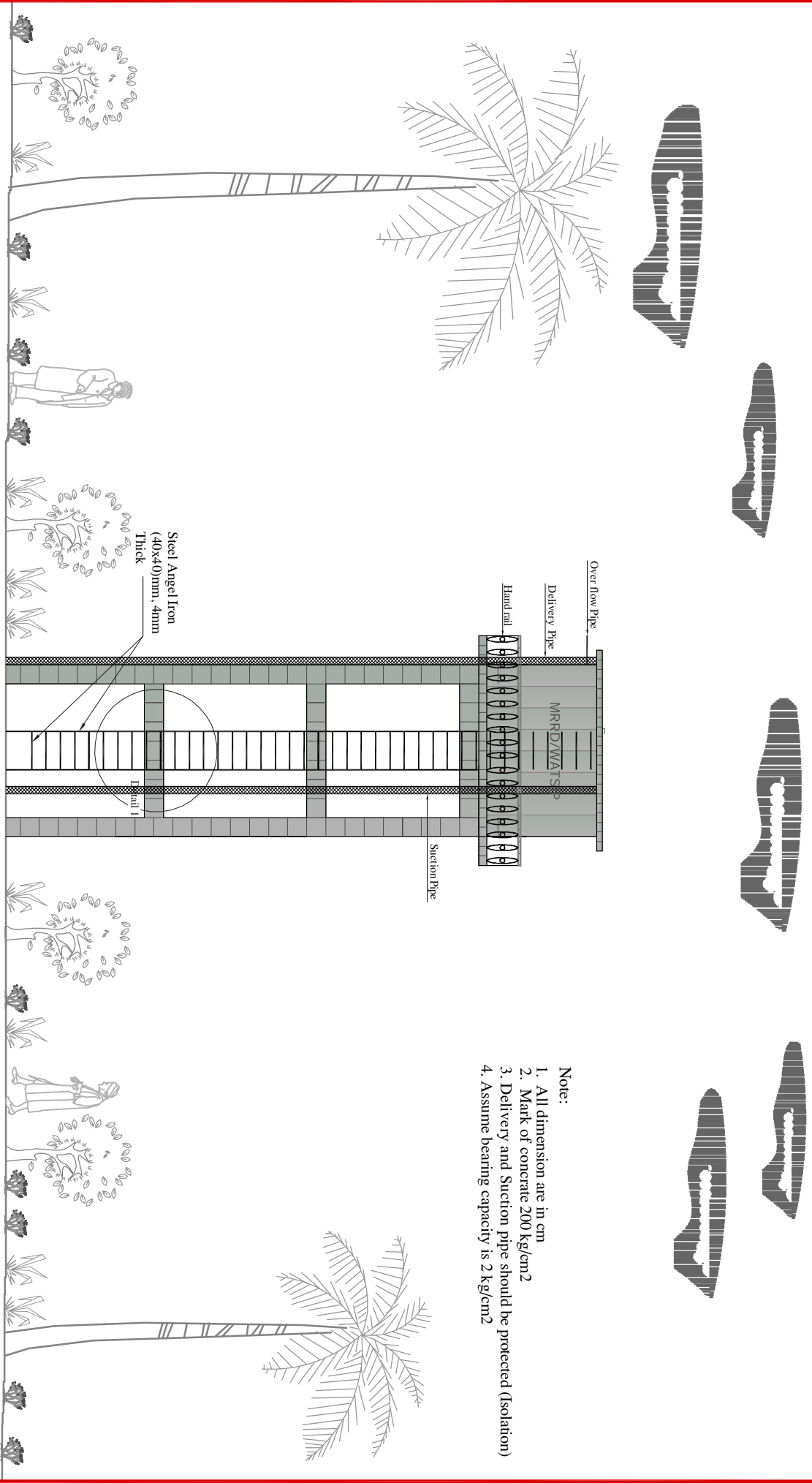
Camp Sakhee Village, Nahrishahi District , Balkh province Hydraulic design of (SPWSN)



Length, Diameter and pressure


Camp Sakhee Village, Nahrshahi District , Balkh province Hydraulic design of (SPWSN)

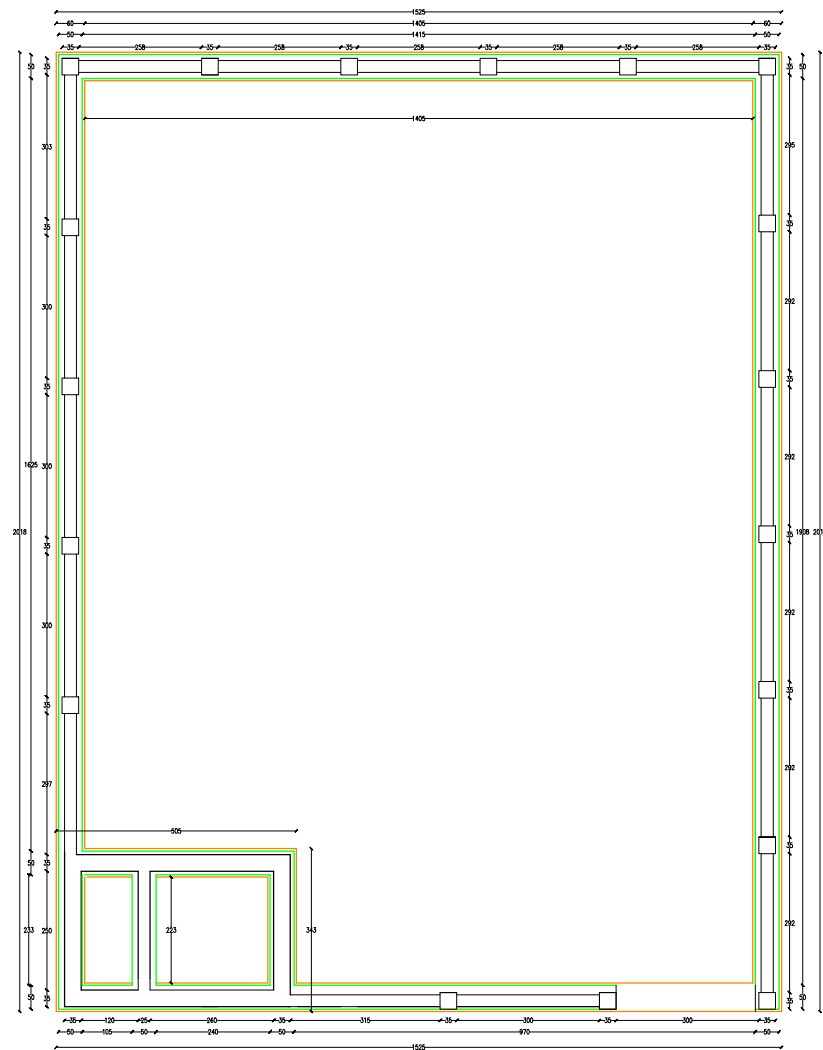




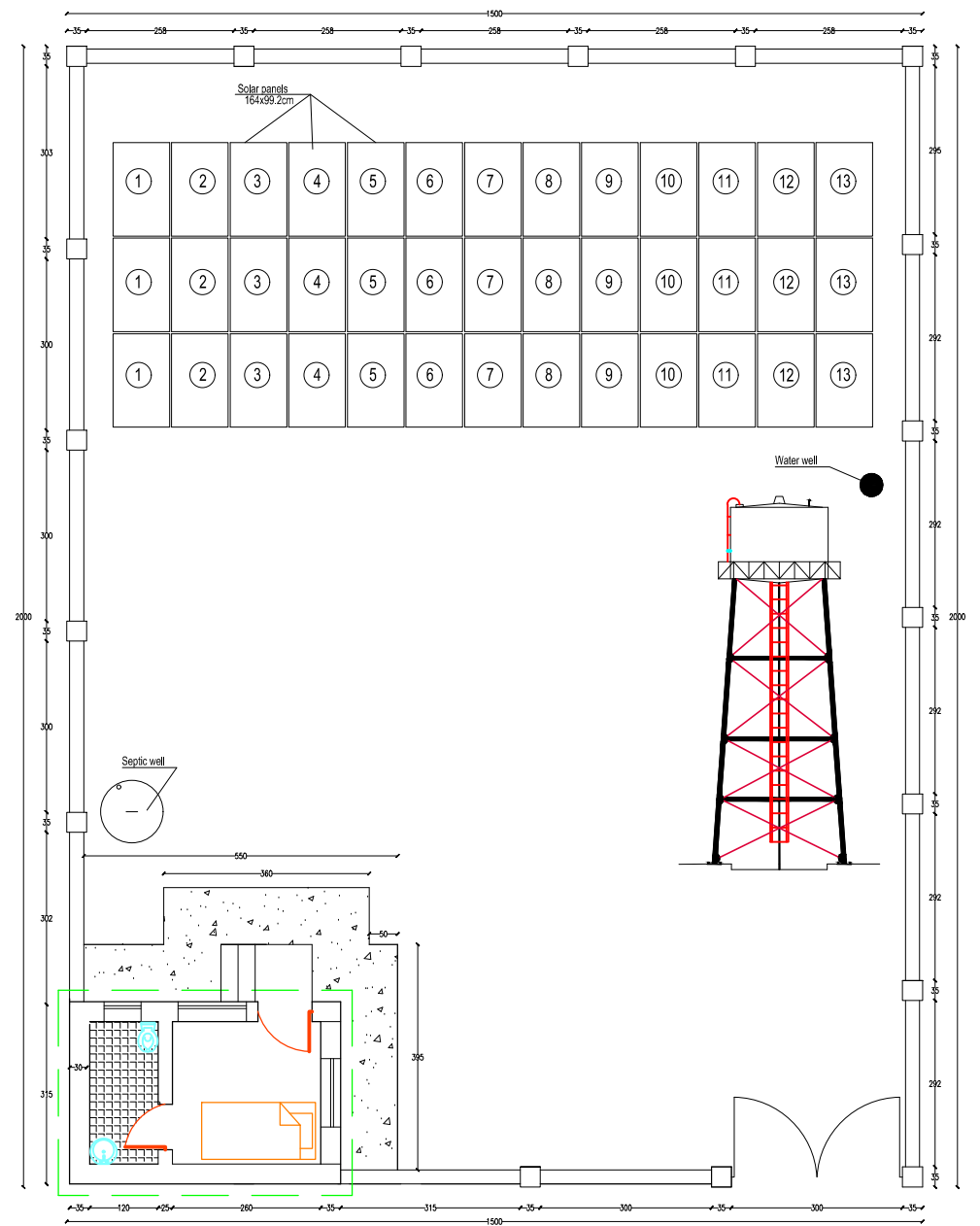
- Note:
1. All dimension are in cm
 2. Mark of concrete 200 kg/cm²
 3. Delivery and Suction pipe should be protected (Isolation)
 4. Assume bearing capacity is 2 kg/cm²

Elevation of Water Tank Tower

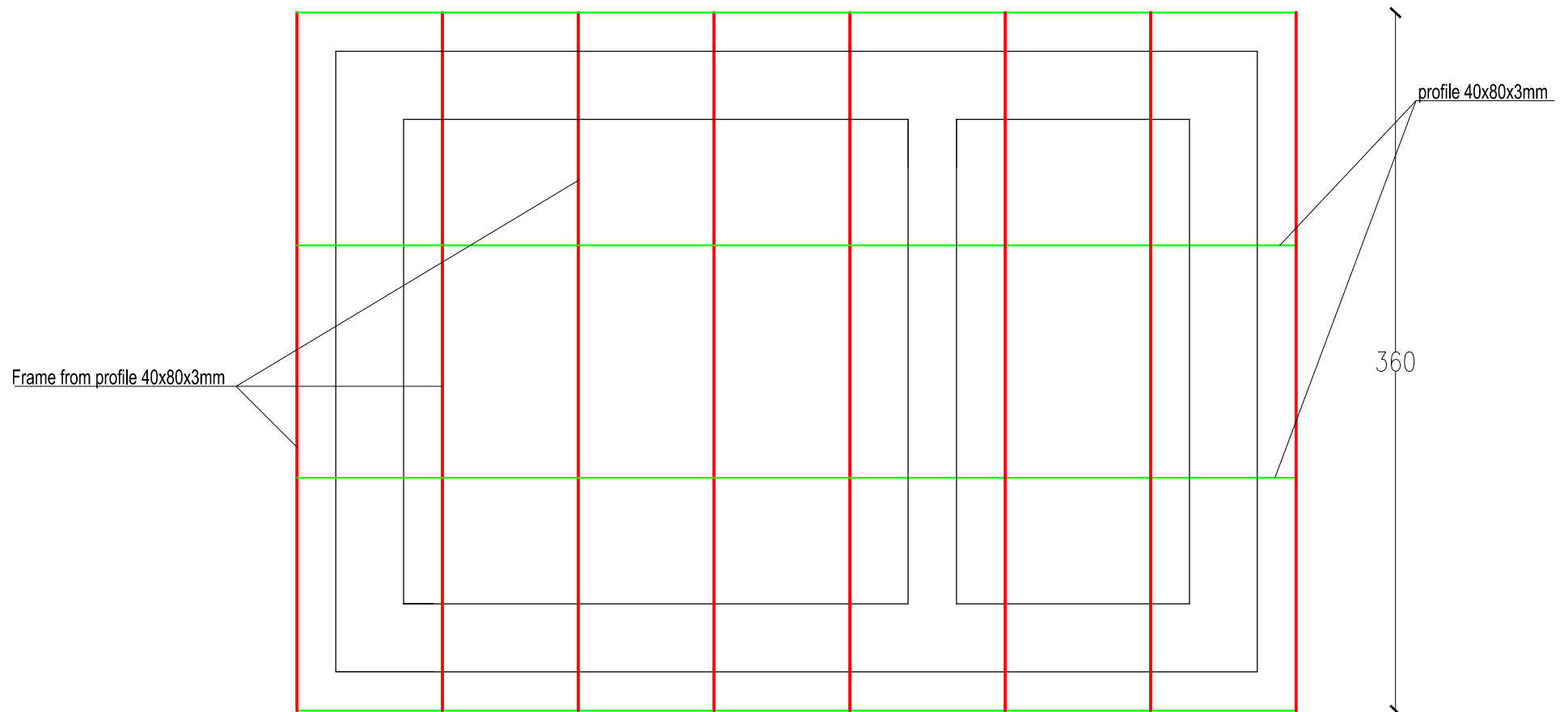
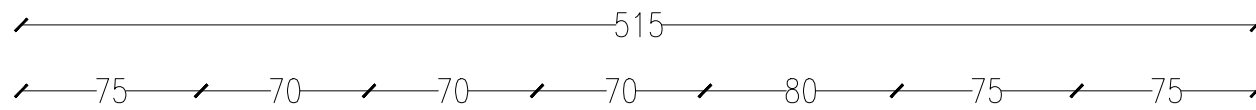
<div><div><div>TS AFGHANISTAN</div><div>Ministry of Rural Rehabilitation and Development</div><div>Watsip</div></div></div>				SURVEYED BY Eng. Mohammad Anwar		CHECKED BY Eng. Saad Rauf "Sadat"		SCALE		SHEET NO.		PROVINCE Baluch		PROJECT NAME Water Supply Project	
DESIGNED BY Eng. Mohammad Anwar				REVIEWED BY Eng. Faraz Omar "Zahid"		DATE 20/08/2020		DISTRICT Nahre Shahi		1/4		VILLAGE Naw Abad Camp Sakhi		DRAWING TITLE Elevation of RCC Tank	
DRAWN BY Eng. Mohammad Anwar				APPROVED BY Eng. Ghulam Qader		DRAWING NO.									



Foundation Plan of boundary wall



Plan of boundary wall



Frame plan for Roof

