



**ACTION AGAINST HUNGER
DAIKUNDI OFFICE
WASH DEPARTMENT**

(TECHNICAL DRAWING PART)

PROJECT NAME:

WATER SUPPLY NETWORK PROJECT

JUN, 10, 2024

PREPARED BY: WASH DEPARTMENT

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INDEX SHEET				
NUMBER	SHEET NUMBER	SHEET TITLES		
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2	G-101	INDEX SHEET		
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4	G-103	SITE PLAN OF PROJECT		
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6	A-102	SPRING PROTECTION REINFORCEMENT SLAB		
7	A-103	SPRING PROTECTION SECTION		
8	A-104	BREAK PRESSURE TANK		
9	A-105	WATER RESERVOIR TANK PLAN		
10	A-106	WATER RESERVOIR TANK SECTION B-B		
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24	C-103	ENLARGE PLAN (Node ID, Length, Diameter, Headloss, Gradient, Elevation)		
25	C-103	ENLARGE PLAN (Node ID, Flow, Velocity, Pressure head)		
26	C-104	ENLARGE PLAN (Node ID, Length, Diameter, Headloss, Gradient, Elevation)		
27	C-104	ENLARGE PLAN (Node ID, Flow, Velocity, Pressure head)		
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29	C-105	ENLARGE PLAN (Node ID, Flow, Velocity, Pressure head)		
30	C-106	ENLARGE PLAN (Node ID, Length, Diameter, Headloss, Gradient, Elevation)		
31	C-106	ENLARGE PLAN (Node ID, Flow, Velocity, Pressure head)		



DW.No:

G-101

Action Against Hunger

WASH Department

Project Name
Province
District

Water Supply
Daikundi
Ashterly

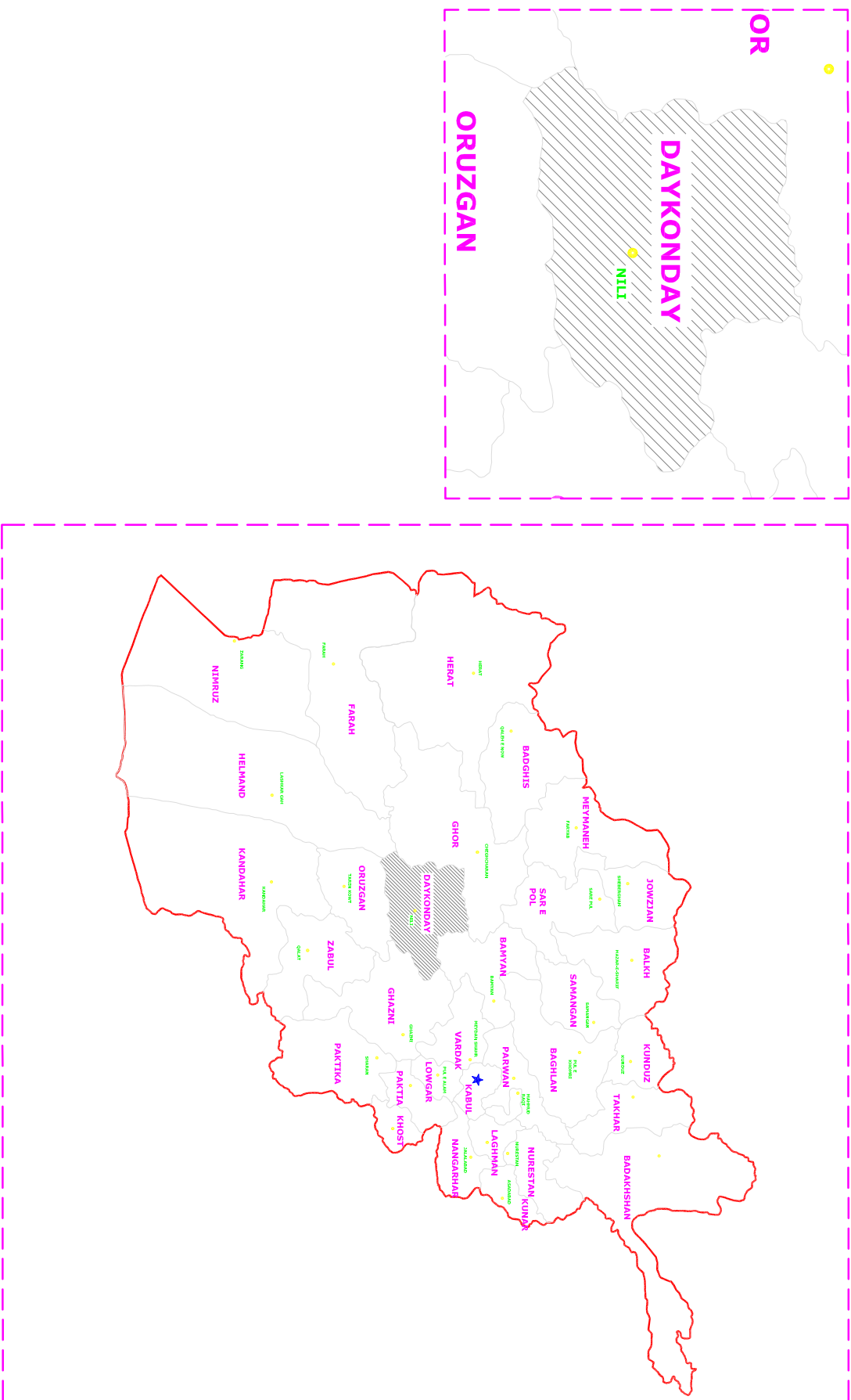
Design&Drawing by
Chick by
Approved by

Mohamad Nekandesh
Mohamad Nekandesh
Yaddullah Jalali

Scale:

Note: All dimension are in millimeter

LOCATION OF PROJECT AT DAIKUNDI, AFGHANISTAN



DW.No:

G-102

Action Against Hunger

WASH Department

Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh
Province	Daikundi	Chick by	Mohamad Nekandesh
District	Ashterly	Approved by	Yaddullah Jalali

Scale:

Note: All dimension are in millimeter

SITE PLAN OF JENGAN VILLAGE NETWORKING PROJECT

1 2 3 4 5



G-103 SITE PLAN
REF SCALE: N.T.S



DW.No:

G-103

Action Against Hunger

WASH Department

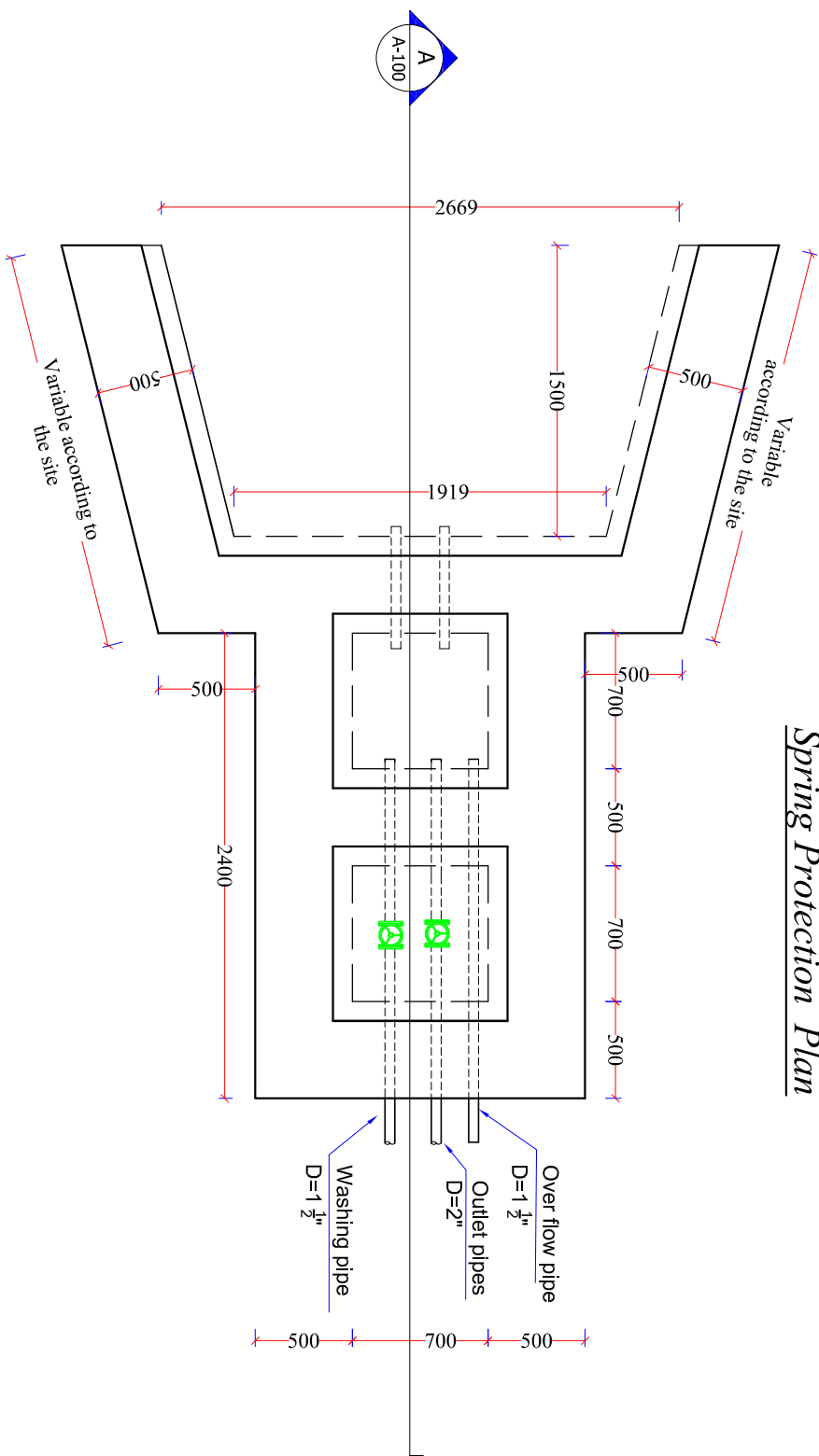
Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh
Province	Daikundi	Chick by	Mohamad Nekandesh
District	(.....)	Approved by	Yaddullah Jalali

Scale:

Note: All dimension are in millimeter

- Note:**
- 1- All dimensions are in mm unless otherwise stated.
 - 2- All PCC works should be with 1:2:4 mortar unless otherwise stated.
 - 3- All RCC works should be with 1:1.5:3 mortar unless otherwise stated.
 - 4- Stone masonry must be worked with 1:4 mortar unless otherwise stated.
 - 5- Curing must be continued upto 28 days.
 - 6- Clear and Clean water must be used every where.

Spring Protection Plan



Note:
All GI and polyethylene pipes diameters must chose according to BoQ specification



DW.No:

A-101

Action Against Hunger

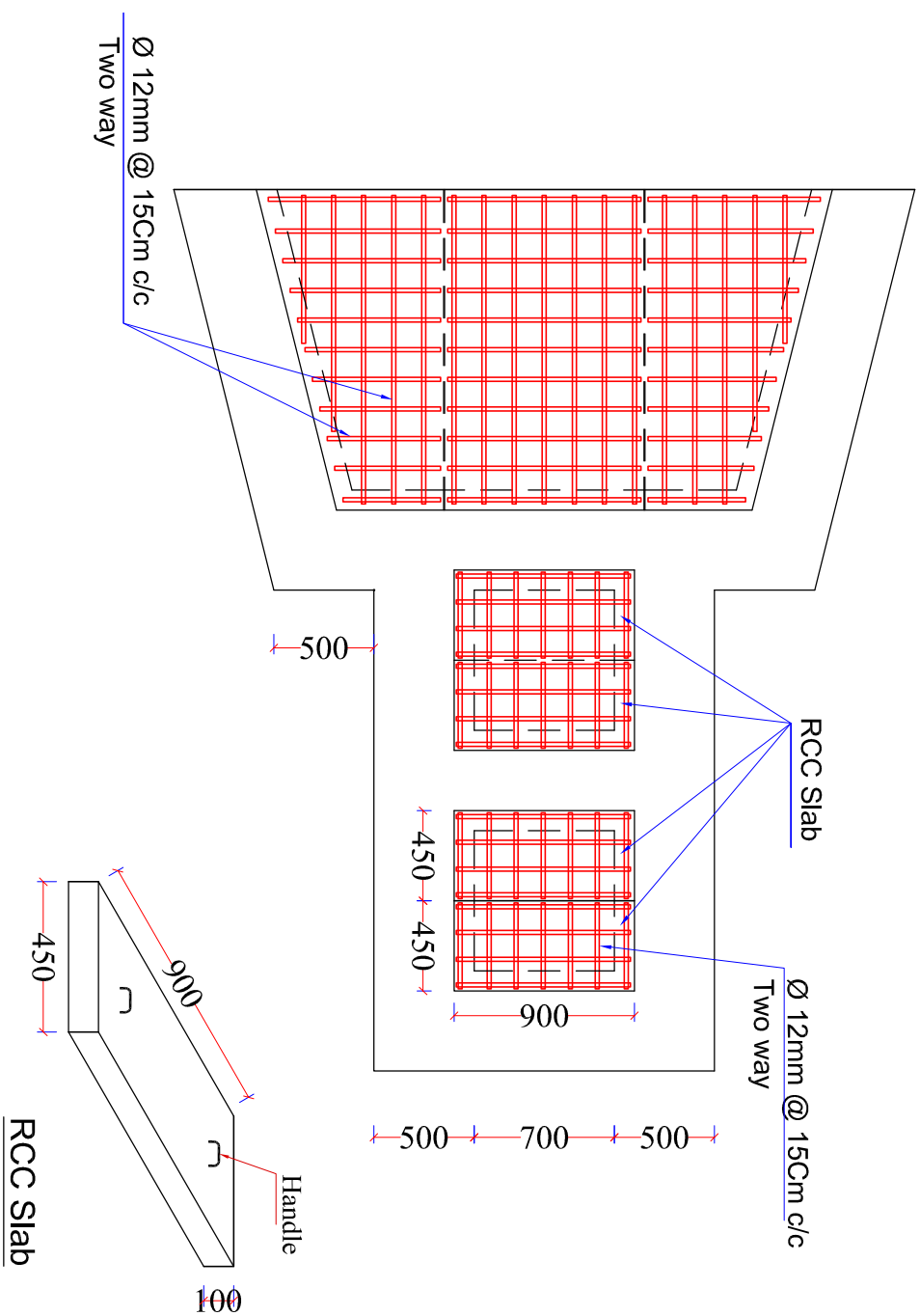
WASH Department

Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh
Province	Daikundi	Chick by	Mohamad Nekandesh
District	Ashterly	Approved by	Yaddullah Jalali

Scale:

Note: All dimension are in millimeter

Spring Protection Structure Reinforcement



DW.No:

A-102

Action Against Hunger

WASH Department

Project Name

Water Supply

Design&Drawing by

Mohamad Nekandesh

Province

Daikundi

Chick by

Mohamad Nekandesh

District

Ashterly

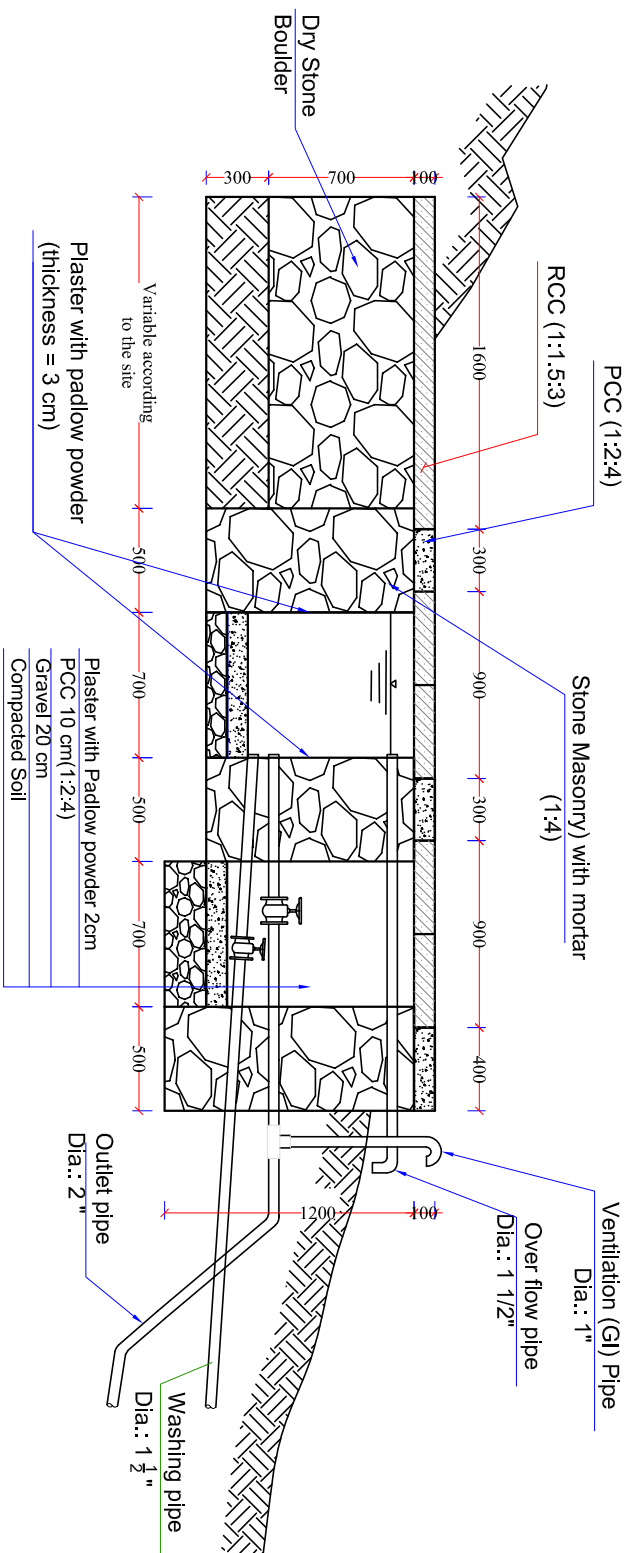
Approved by

Yaddullah Jalali

Scale:

Note: All dimension are in millimeter

Note:
The inside of sedimentation and gate valve box should be plastered with cement-sand mortar and padlow powder.



Section A - A

Note:
All GI and polyethylene pipes diameters must chose according to BoQ specification



DW.No:

A-103

Action Against Hunger

WASH Department

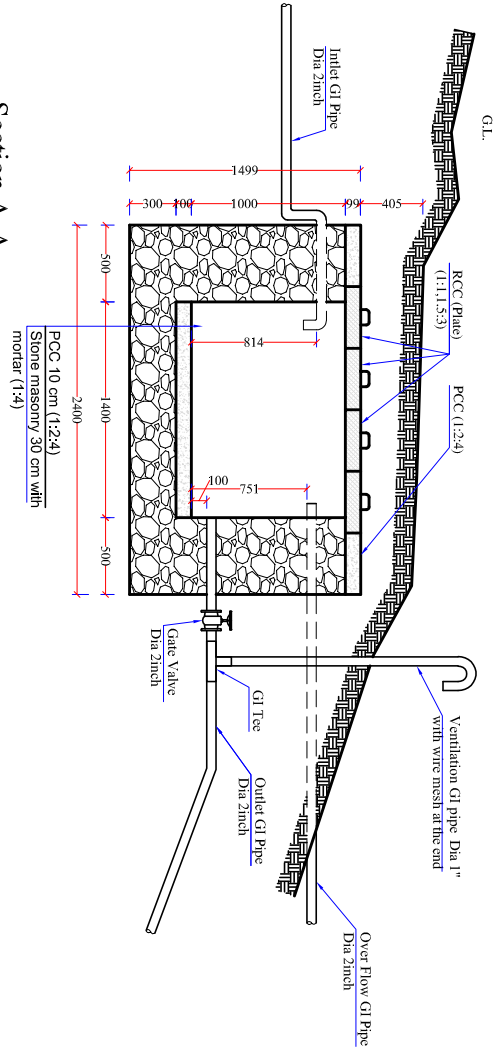
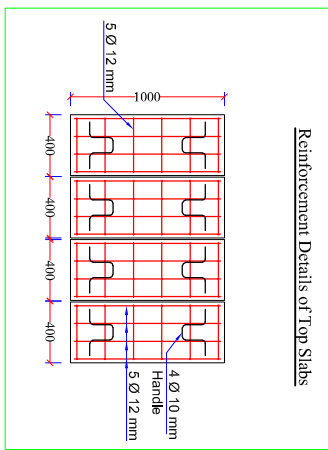
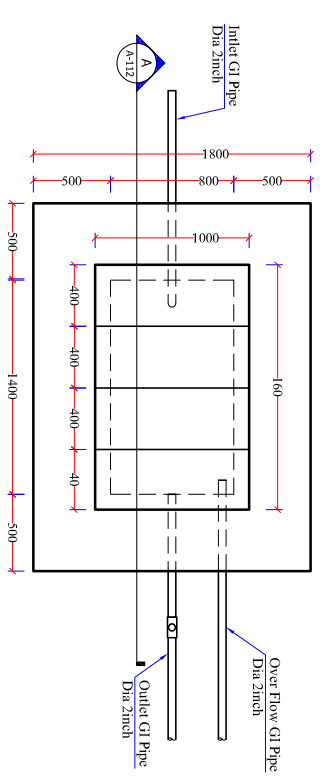
Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh
Province	Daikundi	Chick by	Mohamad Nekandesh
District	Ashterly	Approved by	Yaddullah Jalali

Scale:

Note: All dimension are in millimeter

- Note:**
- 1- All dimensions are in cm unless otherwise stated.
 - 2- During RCC work vibrator must be used to avoid water leakage from reservoir.
 - 3- All PCC works should be with 1:2:4 mortar unless otherwise stated.
 - 4- All RCC works should be with 1:1.5:3 mortar.
 - 5- Isolation material is glass wool.
 - 7- Curing must be continued upto 28 days.
 - 8- Clear and Clean water must be used every where.
 - 9- The inlet, outlet, overflow and washing pipes should be adjusted according to site condition.

BREAK PRESSURE TANK



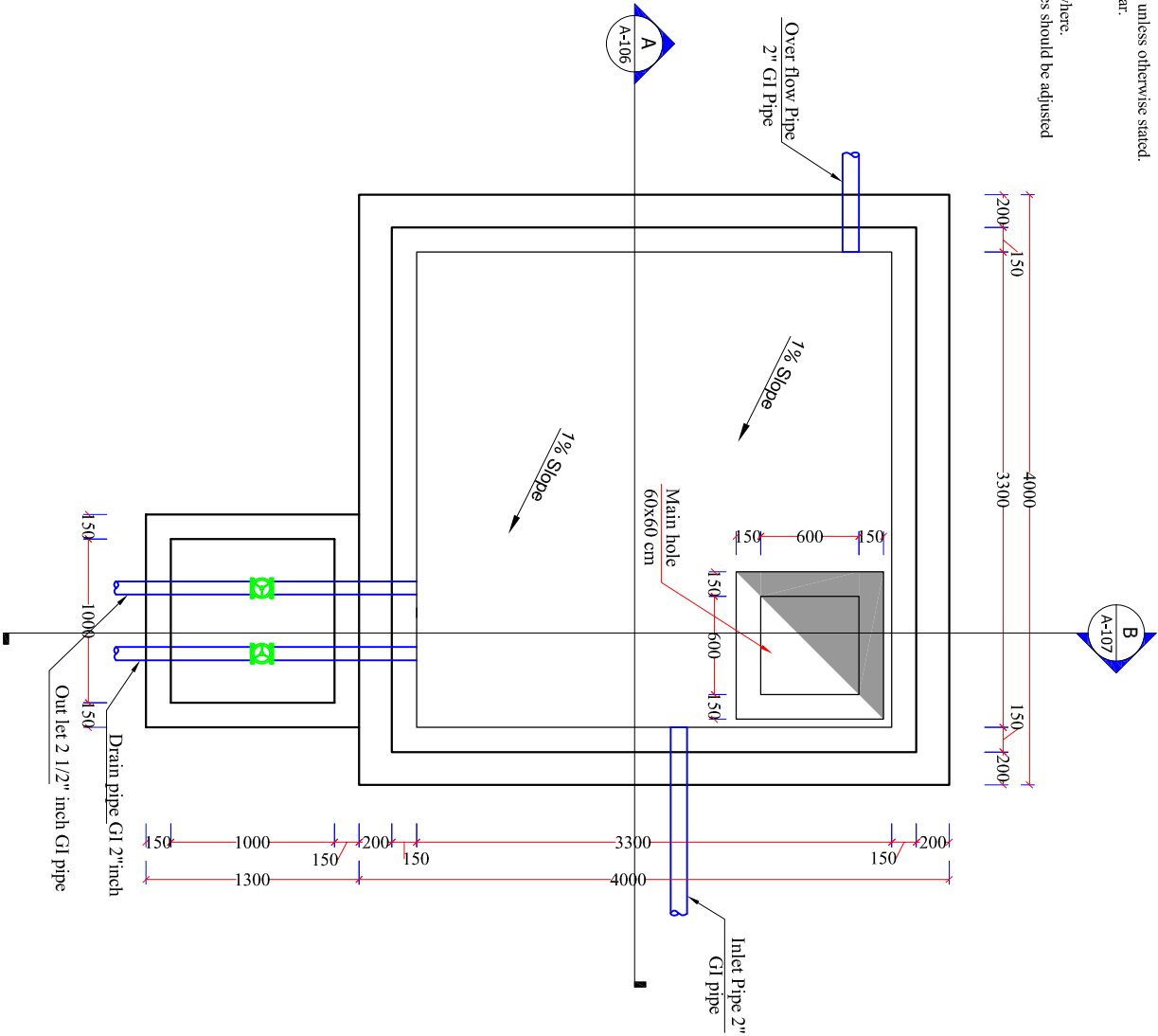
Section A-A

Note:
All GI pipe and polyethylene pipe diameters chose according to BoQ specification



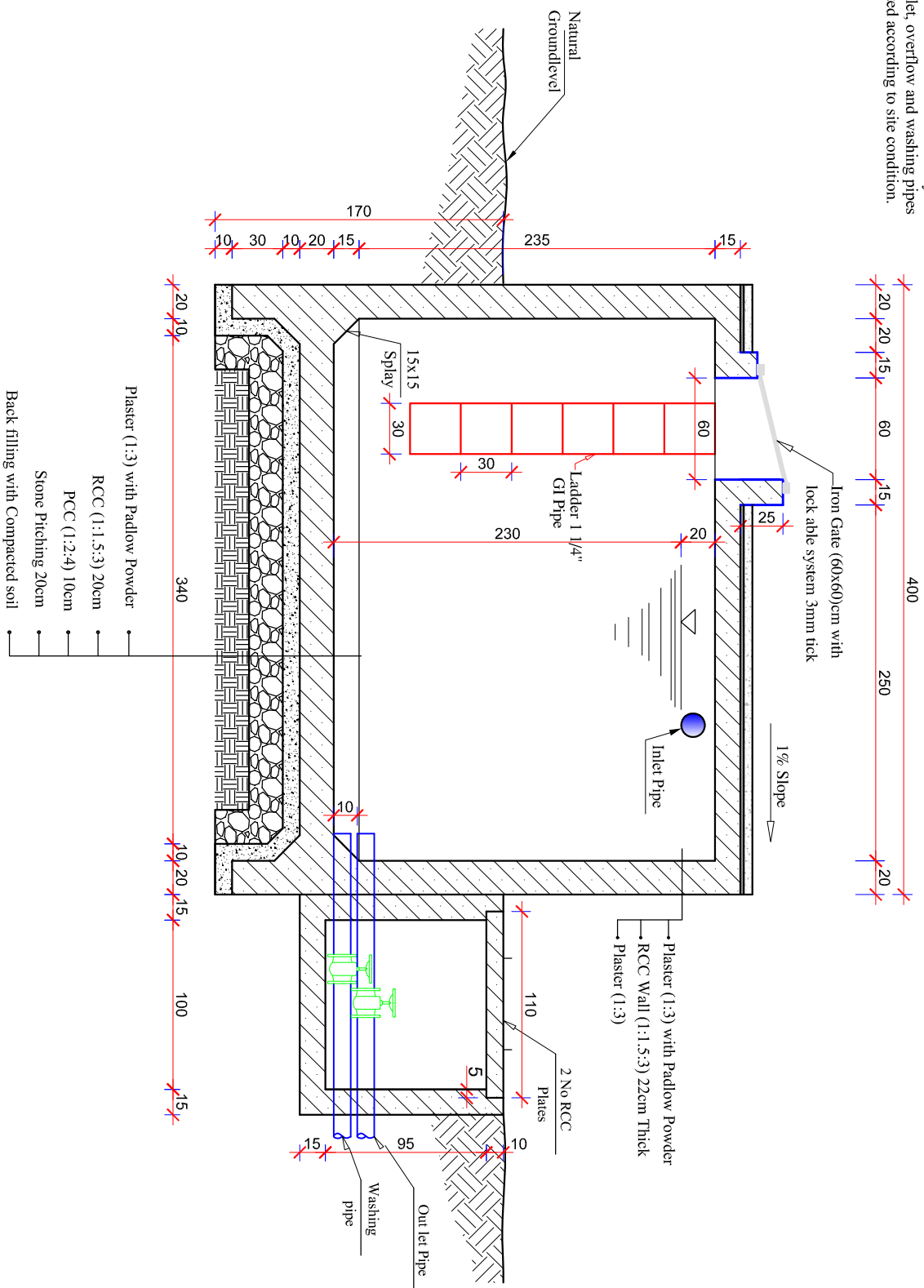
DW.No:	Action Against Hunger				Scale:
	WASH Department				Note: All dimension are in millimeter
A-104	Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh	
	Province	Daikundi	Chick by	Mohamad Nekandesh	
	District	Ashterly	Approved by	Yaddullah Jalali	

- Note:**
- 1- All dimensions are in mm unless otherwise stated.
 - 2- During RCC work vibrator must be used to avoid water leakage from reservoir.
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 - 8- Clear and Clean water must be used every where.
 - 9- The inlet, outlet, overflow and washing pipes should be adjusted according to site condition.



DW.No:	Action Against Hunger				Scale:
	WASH Department				Note: All dimension are in millimeter
A-105	Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh	
	Province	Daikundi	Chick by	Mohamad Nekandesh	
	District	Ashterly	Approved by	Yadullah Jalali	

- Note:**
- 1- All dimensions are in cm unless otherwise stated.
 - 2- During RCC work vibrator must be used to avoid water leakage from reservoir.
 - 3- All RCC works should be with 1:2:4 mortar unless otherwise stated.
 - 4- All RCC works should be with 1:1.5:3 mortar.
 - 5- Isolation material is glass wool.
 - 7- Curing must be continued upto 28 days.
 - 8- Clear and Clean water must be used every where.
 - 9- The inlet, outlet, overflow and washing pipes should be adjusted according to site condition.



A-107 RESERVOIR LONGITUDINAL SECTION (B-B)
REF. SCALE: 1:25

Action Against Hunger

WASH Department

Scale:

Note: All dimension are in millimeter

DW.No:

A-107

Project Name

Water Supply

Design&Drawing by

Mohamad Nekandesh

Province

Daikundi

Chick by

Mohamad Nekandesh

District

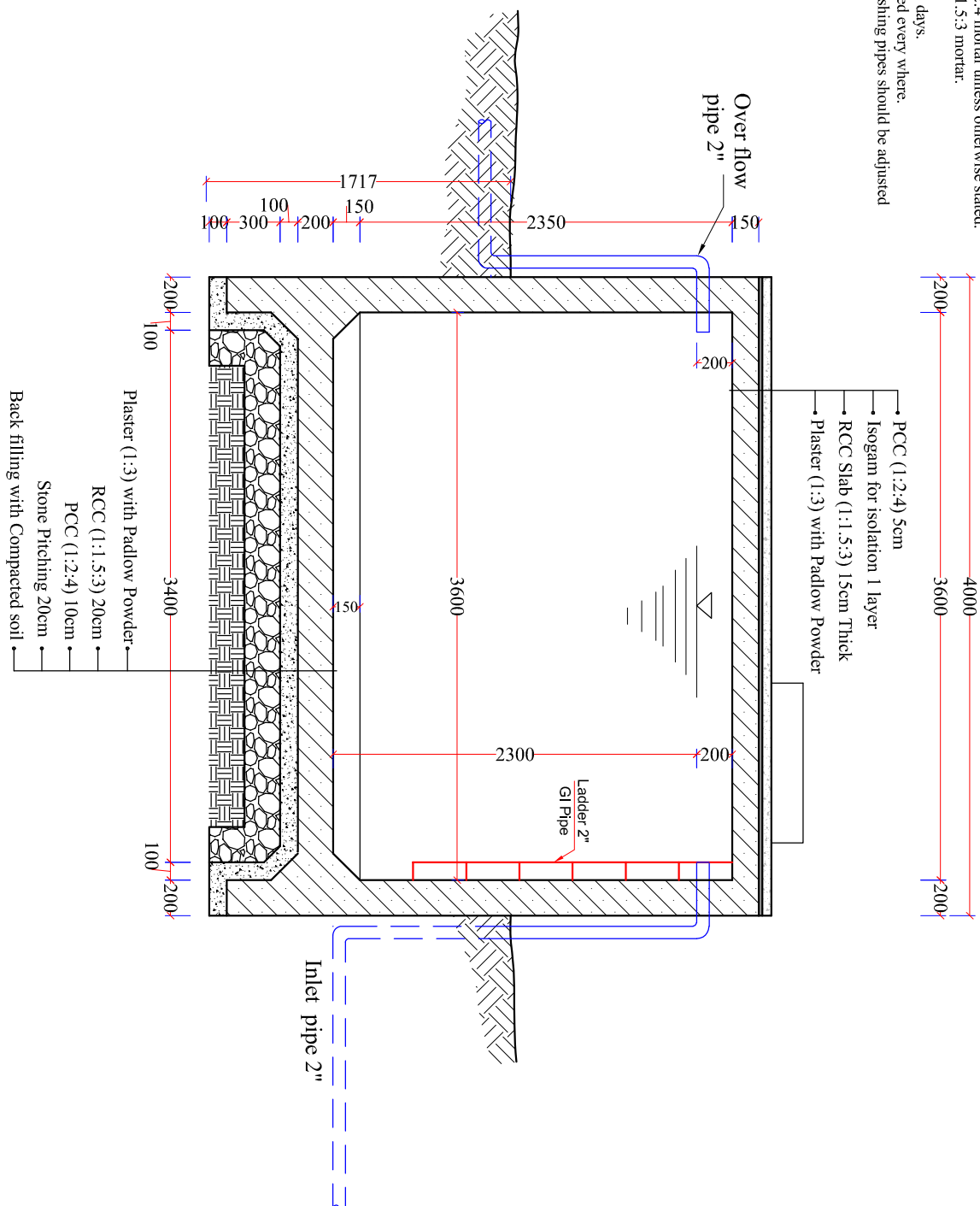
Ashterly

Approved by

Yadullah Jalali



- Note:**
- 1- All dimensions are in cm unless otherwise stated.
 - 2- During RCC work vibrator must be used to avoid water leakage from reservoir.
 - 3- All PCC works should be with 1:2:4 mortar unless otherwise stated.
 - 4- All RCC works should be with 1:1.5:3 mortar.
 - 5- Isolation material is glass wool.
 - 7- Curing must be continued upto 28 days.
 - 8- Clear and Clean water must be used every where.
 - 9- The inlet, outlet, overflow and washing pipes should be adjusted according to site condition.



DW.No:

A-106

Action Against Hunger

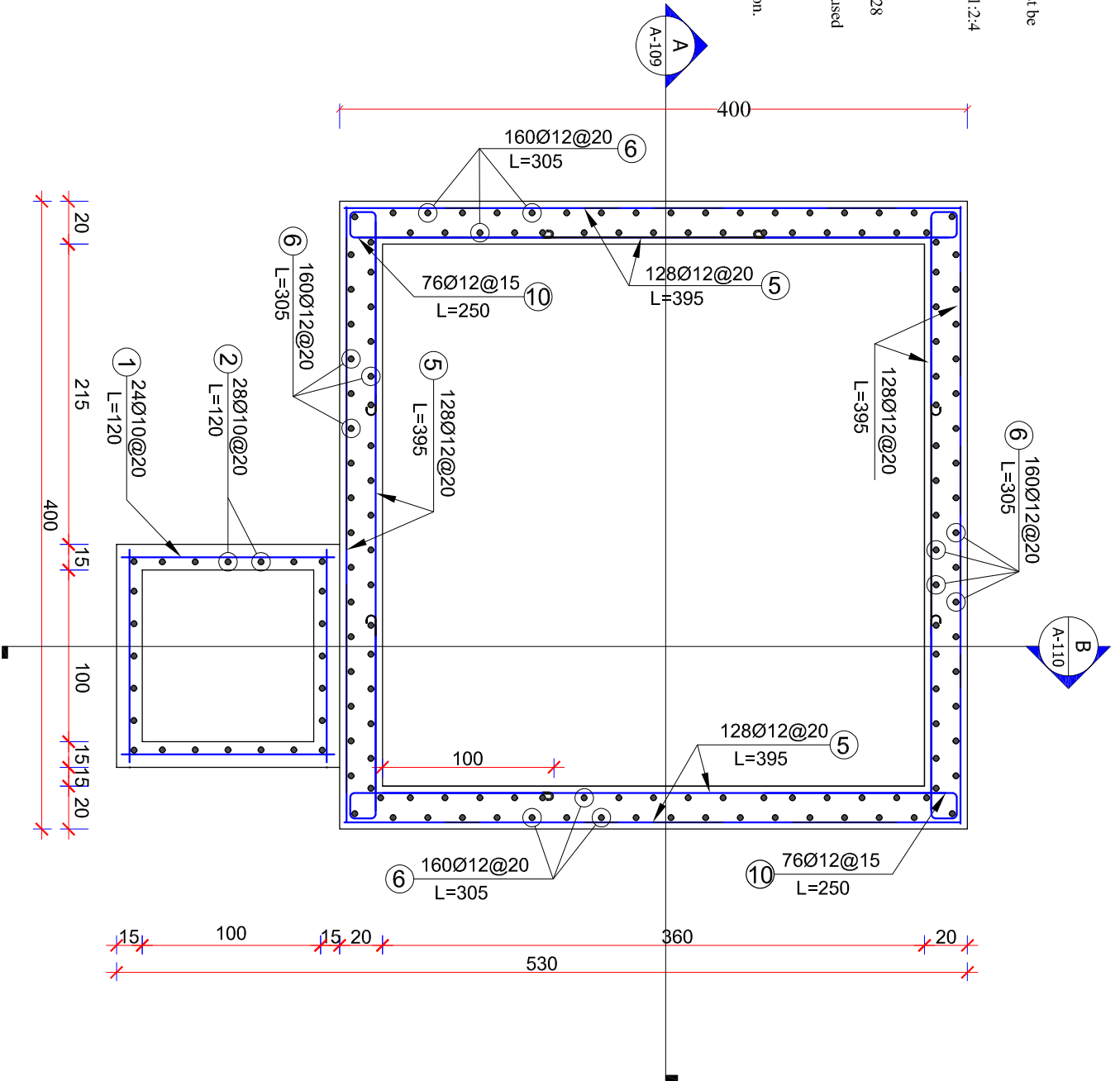
WASH Department

Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh
Province	Daikundi	Chick by	Mohamad Nekandesh
District	Ashterly	Approved by	Yadullah Jalali

Scale:

Note: All dimension are in millimeter

- Note:**
- 1- All dimensions are in cm unless otherwise stated.
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 - 5- Isolation material is glass wool.
 - 7- Curing must be continued upto 28 days.
 - 8- Clear and Clean water must be used every where.
 - 9- The inlet, outlet, overflow and washing pipes should be adjusted according to site condition.



DW.No:

A-108

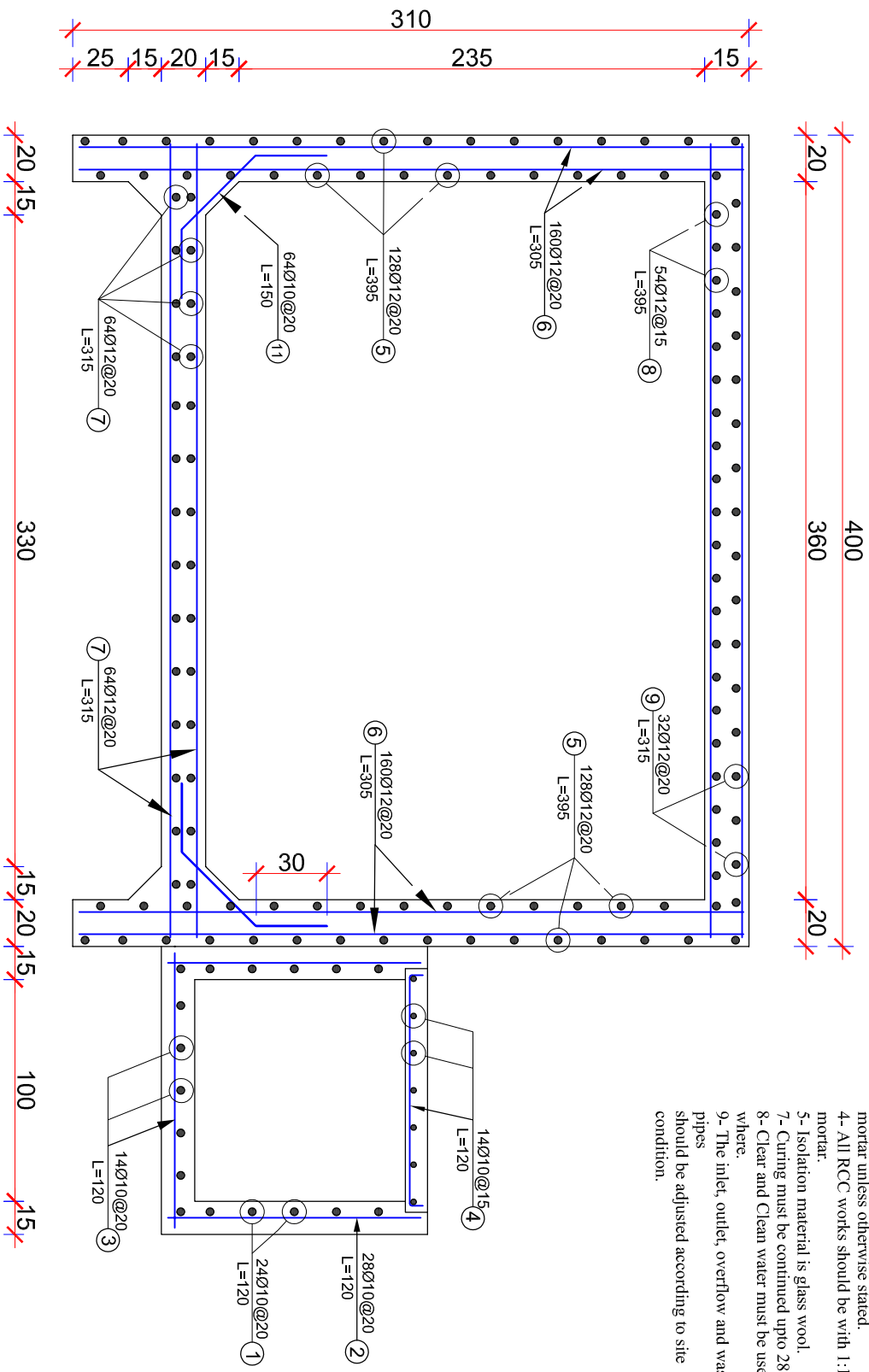
Action Against Hunger

WASH Department

Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh
Province	Daikundi	Chick by	Mohamad Nekandesh
District	Ashterly	Approved by	Yadullah Jalali

Scale:

Note: All dimension are in millimeter



- Note:**
- 1- All dimensions are in cm unless otherwise stated.
 - 2- During RCC work vibrator must be used to avoid water leakage from reservoir.
 - 3- All PCC works should be with 1:2:4 mortar unless otherwise stated.
 - 4- All RCC works should be with 1:1.5:3 mortar.
 - 5- Isolation material is glass wool.
 - 7- Curing must be continued upto 28 days.
 - 8- Clear and Clean water must be used every where.
 - 9- The inlet, outlet, overflow and washing pipes should be adjusted according to site condition.

DW.No:

A-110

Action Against Hunger

WASH Department

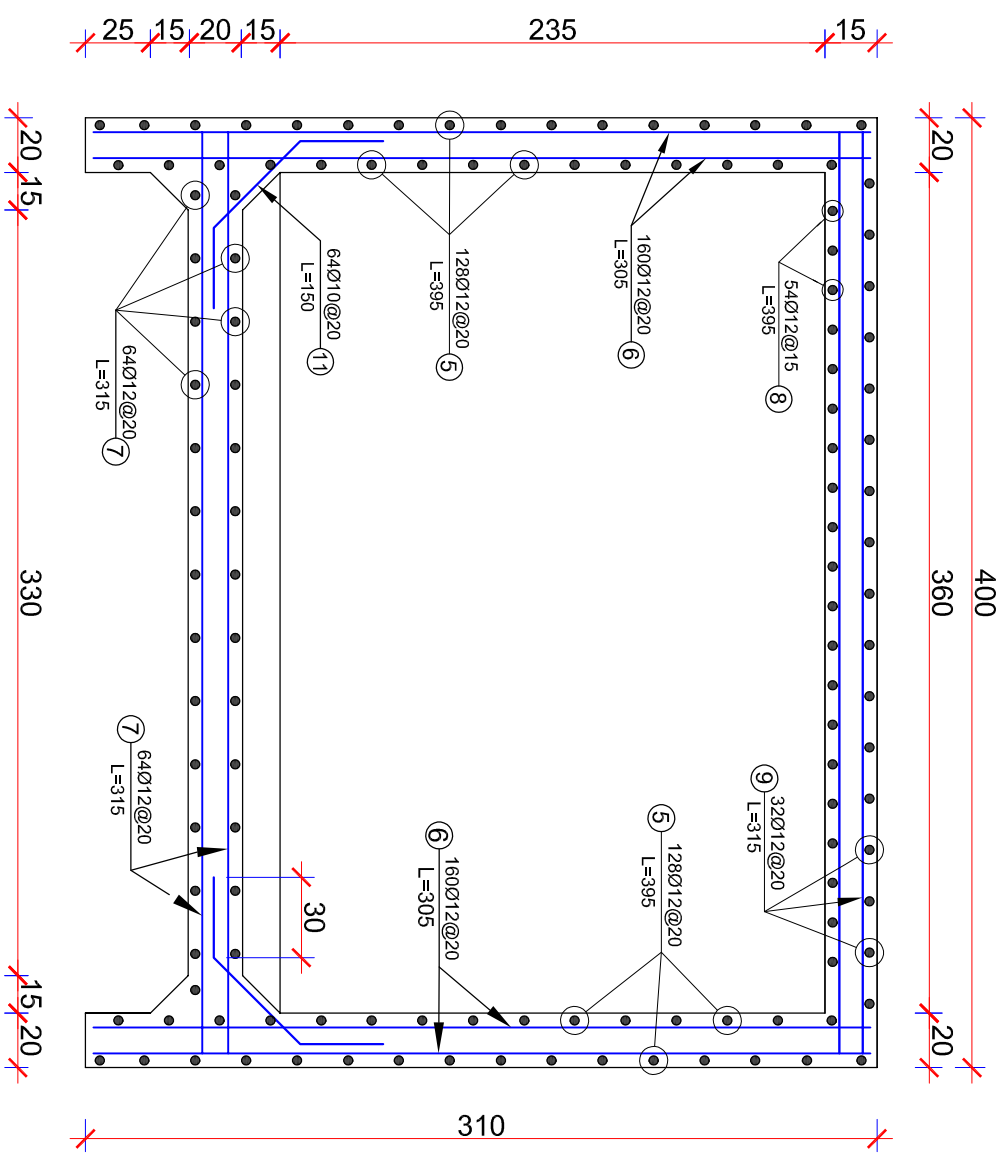
Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh
Province	Daikundi	Chick by	Mohamad Nekandesh
District	Ashterly	Approved by	Yadullah Jalali

Scale:

Note: All dimension are in millimeter

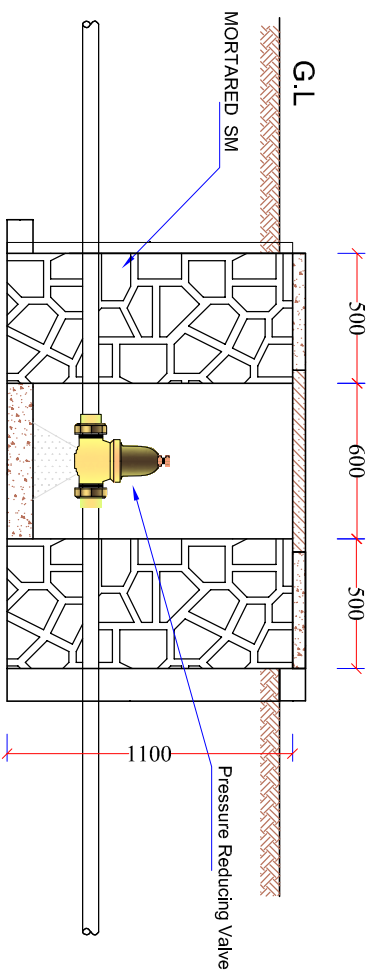
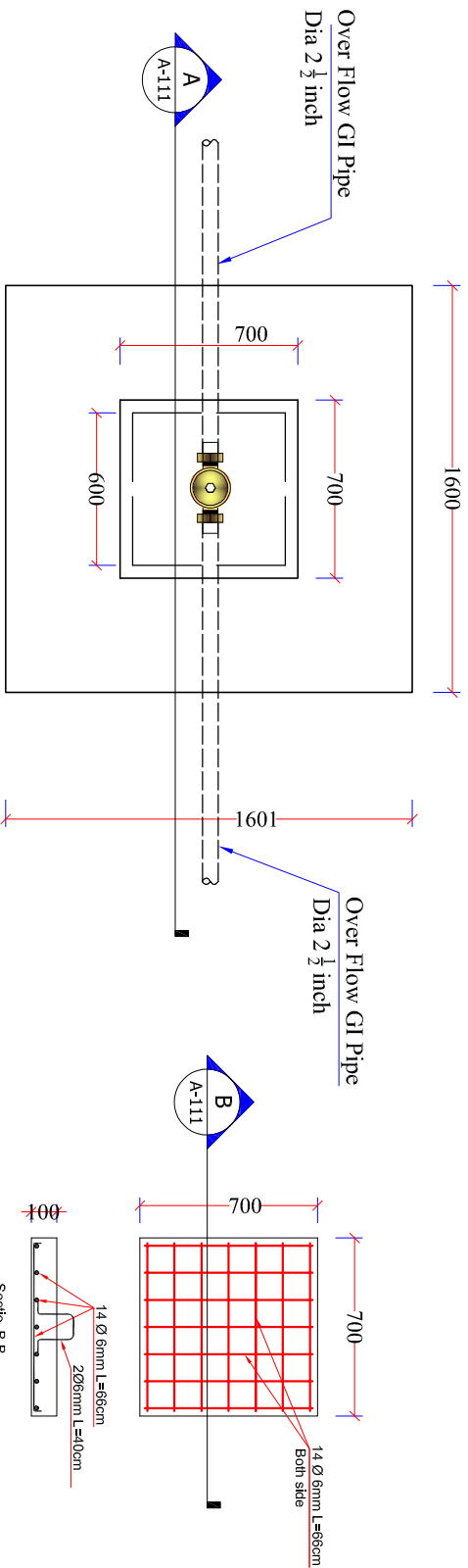


- Note:**
- 1- All dimensions are in cm unless otherwise stated.
 - 2- During RCC work vibrator must be used to avoid water leakage from reservoir.
 - 3- All PCC works should be with 1 :2:4 mortar unless otherwise stated.
 - 4- All RCC works should be with 1:1:5.3 mortar.
 - 5- Isolation material is glass wool.
 - 7- Curing must be continued upto 28 days.
 - 8- Clear and Clean water must be used every where.
 - 9- The inlet, outlet, overflow and washing pipes should be adjusted according to site condition.

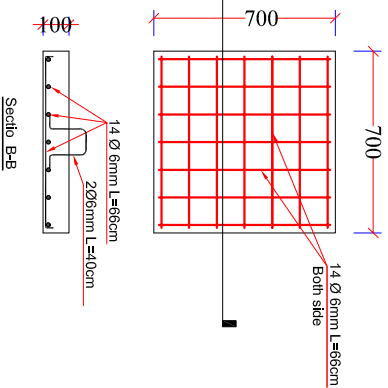


DW.No:	Action Against Hunger				Scale:
	WASH Department				Note: All dimension are in millimeter
A-109	Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh	
	Province	Daikundi	Chick by	Mohamad Nekandesh	
	District	Ashterly	Approved by	Yadullah Jalali	

VALE BREAK PRESSURE



SECTION A-A



TYPICAL DIMENSIONS OF VALVE CHAMBER

S.NO.	DIAMETER OF VALVE (mm.)	DIMENSION (mm.) (L x B)
1.	50	600 X600



DW.No:

A-111

Action Against Hunger

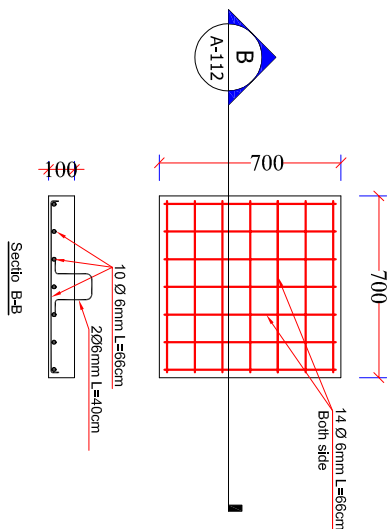
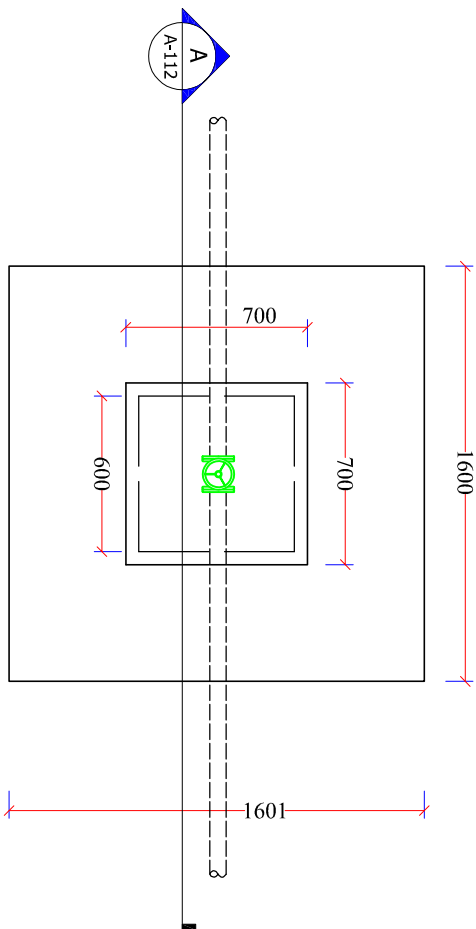
WASH Department

Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh
Province	Daikundi	Chick by	Mohamad Nekandesh
District	Ashterly	Approved by	Yaddullah Jalali

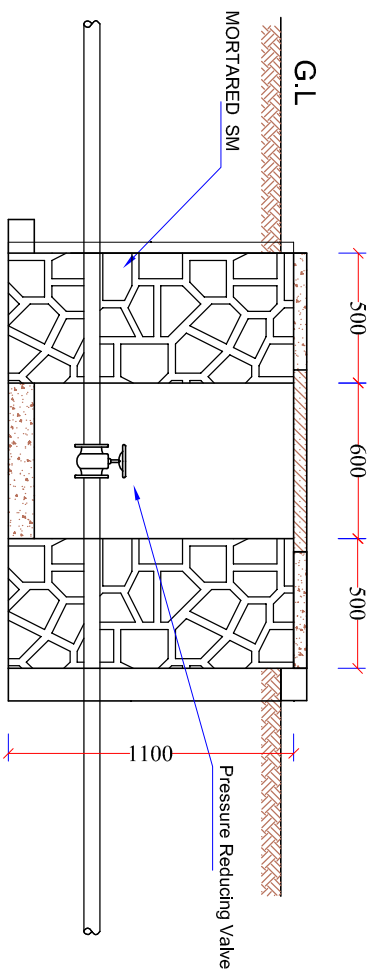
Scale:

Note: All dimension are in millimeter

GATE VALE BOX FOR CONTROL



TYPICAL DIMENSIONS OF VALVE CHAMBER		
S.NO.	DIAMETER OF VALVE (mm.)	DIMENSION (mm.) (L x B)
1.	50	600 X600



DW.No:

A-112

Action Against Hunger

WASH Department

Project Name
Province
District

Water Supply
Daikundi
Ashterly

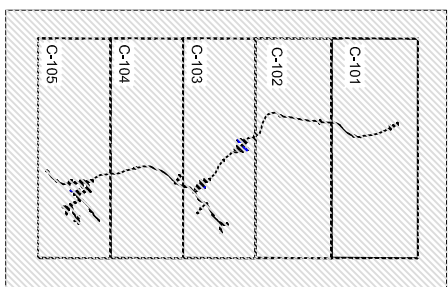
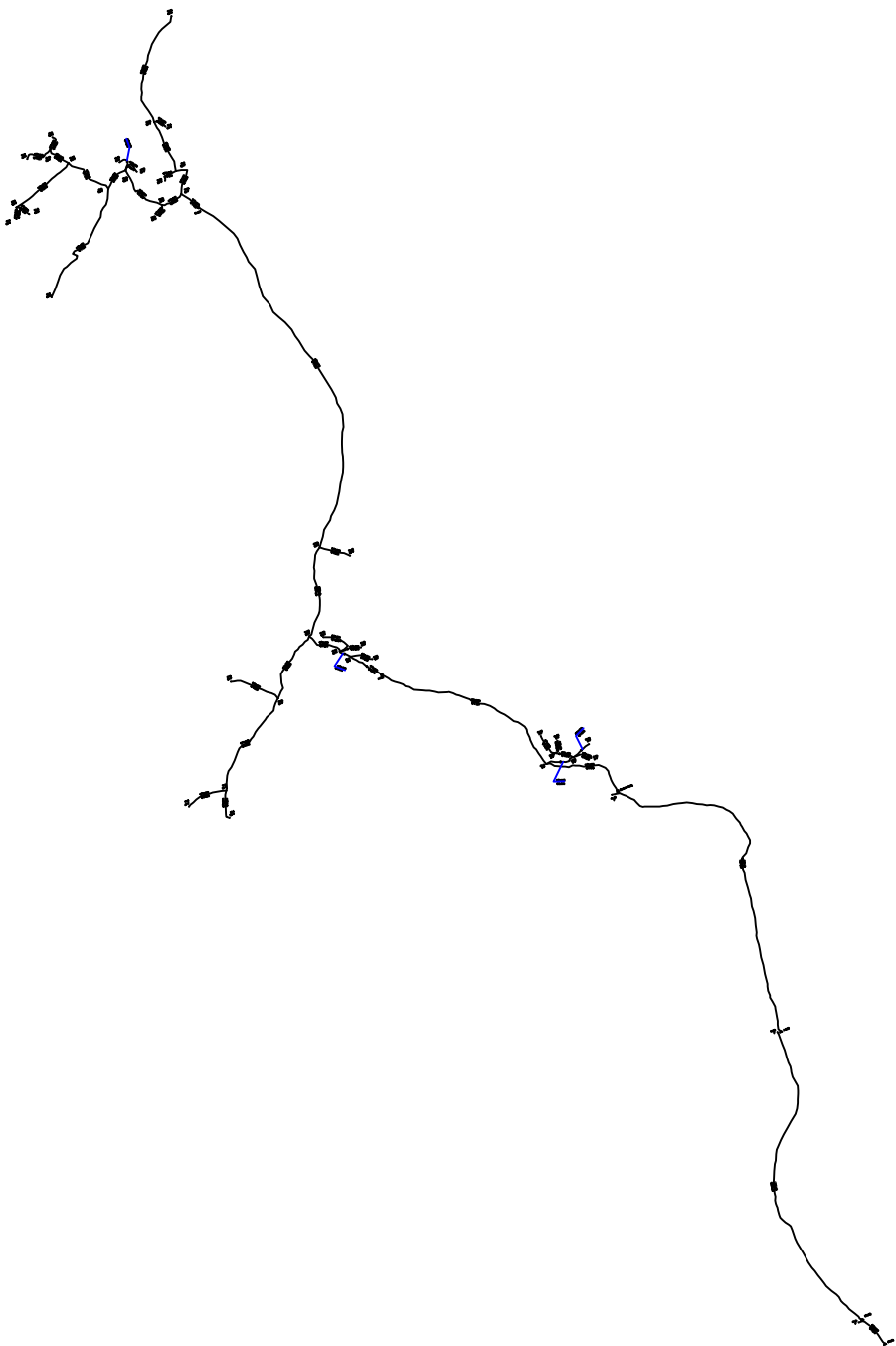
Design&Drawing by
Chick by
Approved by

Mohamad Nekandesh
Mohamad Nekandesh
Yaddullah Jalali

Scale:

Note: All dimension are in millimeter

1. Node ID:
2. Flow in (liter/sec)
3. Velocity in (meter/sec)
4. Pressure Head (m)



KEY PLAN:

LEGEND:

SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

Coordinates			
NAMES	EAST	NORTH	ELEVATION
SPRING	251293.000	3797081.000	2923.000
RESERVOIR	251280.000	3796152.000	2811.000
B.P.T	251444.000	3796371.000	2741.000
B.P.V	251946.000	3794406.000	2863.000

Note: All dimension showed in sheet

Action Against Hunger

WASH Department

DW.No:

C-100

Project Name

Water Supply

Design by

Yaddullah Jalali

Province

Daikundi

Drawing& Layout by

Mohamad Nekandesh

District

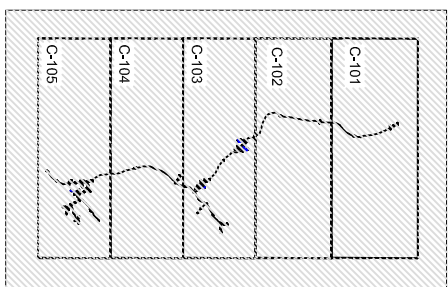
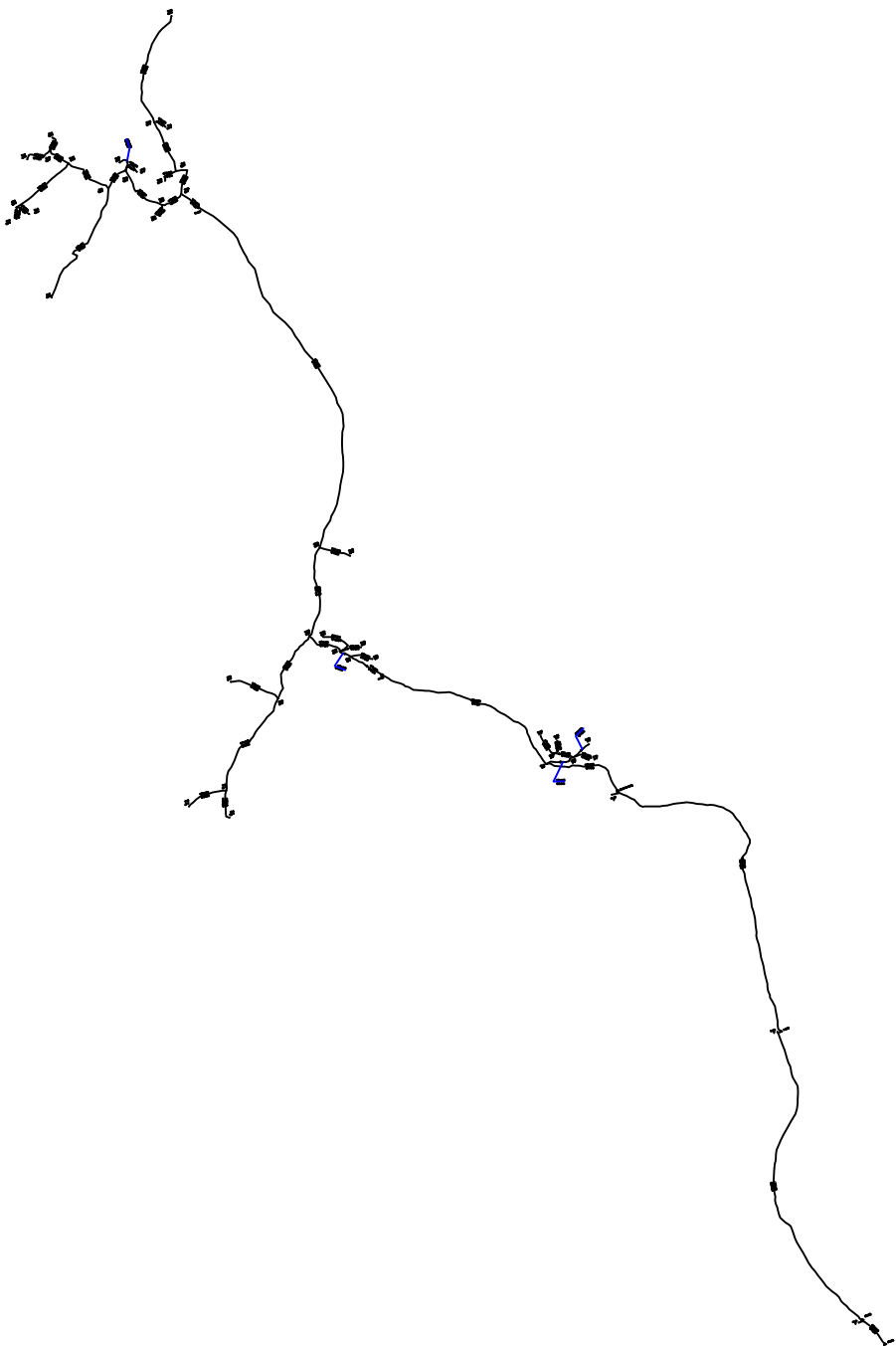
Ashterly

Approved by

.....



1. Node ID:
2. Flow in (liter/sec)
3. Velocity in (meter/sec)
4. Pressure Head (m)



KEY PLAN:

LEGEND:

SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

Coordinates			
NAMES	EAST	NORTH	ELEVATION
SPRING	251293.000	3797081.000	2923.000
RESERVOIR	251280.000	3796152.000	2811.000
B.P.T	25144.000	3796371.000	2741.000
B.P.V	251946.000	3794436.000	2863.000

Action Against Hunger

WASH Department

DW.No:

C1-100

Project Name

Water Supply

Design by

Yaddullah Jalali

Province

Daikundi

Drawing& Layout by

Mohamad Nekandesh

District

Ashterly

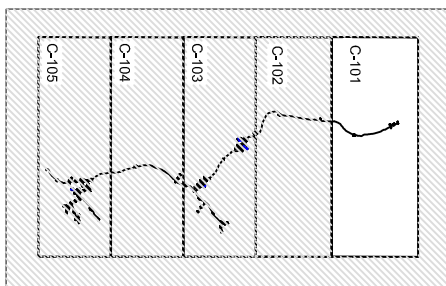
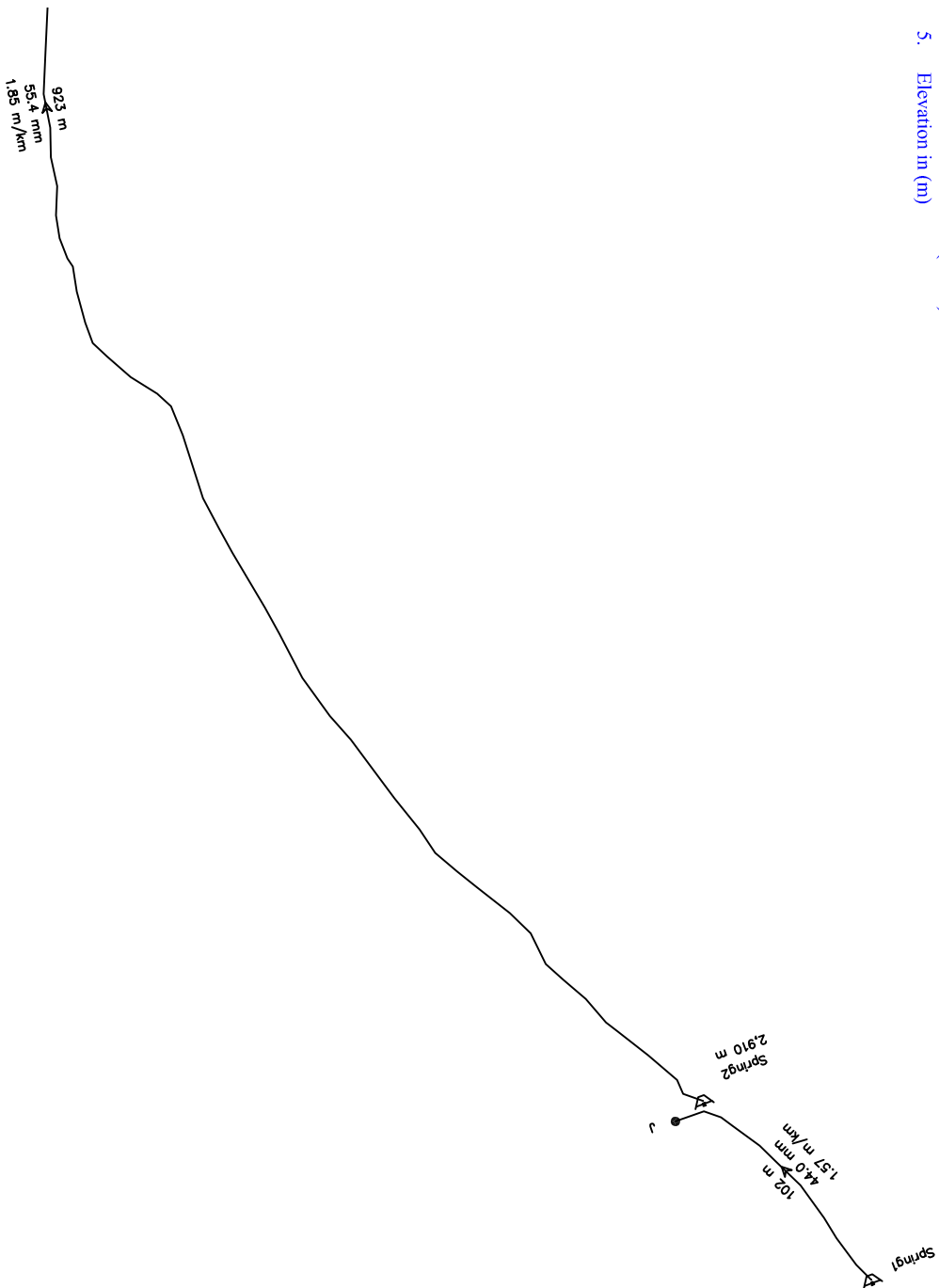
Approved by

.....

Note: All dimension showed in sheet



1. Node ID:
2. Length in (m)
3. In Diameter in (mm)
4. Head loss Gradient in (m/km)
5. Elevation in (m)



KEY PLAN

LEGEND

SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

Coordinates			
NAMES	EAST	NORTH	ELEVATION
SPRING	257263.000	3787081.000	2923.000
RESERVOIR	257260.000	3786932.000	2871.000
B.P.1	257144.000	378571.000	2741.000
B.P.2	257146.000	3784628.000	2643.000

Action Against Hunger

WASH Department

DW.No:

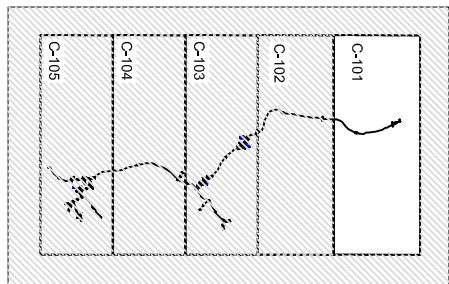
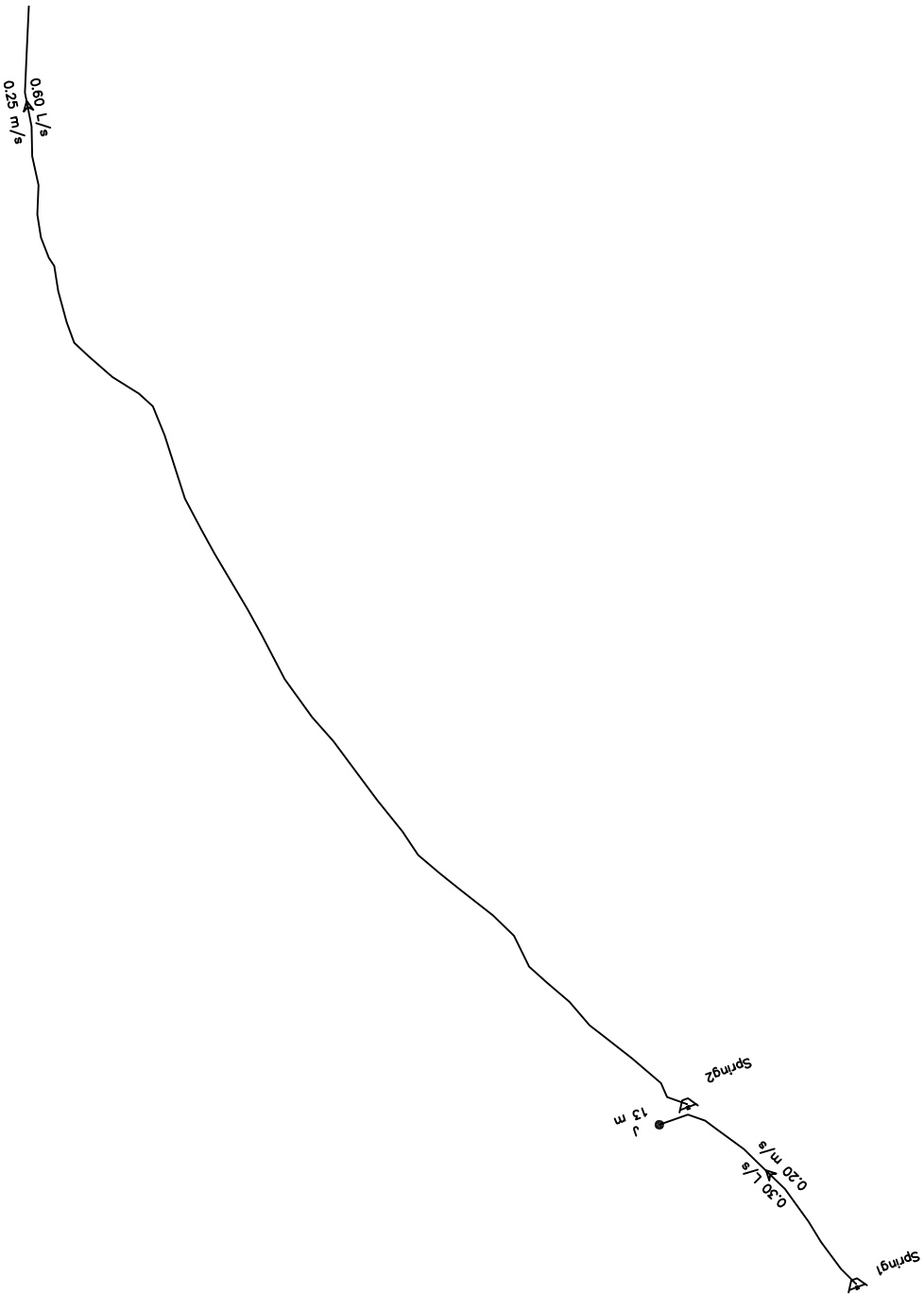
C-101

Note: All dimension showed in sheet

Project Name	Water Supply	Design by	Yaddullah Jalali
Province	Daikundi	Drawing& Layout by	Mohamad Nekandesh
District	Ashterly	Approved by	.....



1. Node ID:
2. Flow in (liter/sec)
3. Velocity in (meter/sec)
4. Pressure Head (m)



KEY PLAN

LEGEND

SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

Coordinates			
NAMES	EAST	NORTH	ELEVATION
SPRING	257263.000	3787081.000	2823.000
RESERVOIR	257260.000	3786932.000	2817.000
B.P.1	257144.000	378571.000	2741.000
B.P.2	257146.000	3784628.000	2843.000

Action Against Hunger

WASH Department

DW.No:

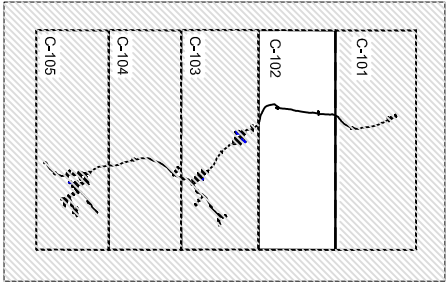
C1-101

Note: All dimension showed in sheet

Project Name	Water Supply	Design by	Yaddullah Jalali
Province	Daikundi	Drawing& Layout by	Mohamad Nekandesh
District	Ashterly	Approved by	.....



-
- A vertical number line with tick marks labeled 1, 2, 3, 4, and 5 from top to bottom.



SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

Coordinates		
NAMES	EAST	ELEVATION
SPRING	251283.000	2823.000
RESERVOIR	251290.000	278152.000
B.P.T	251444.000	2741.000
B.P.V	251949.000	2963.000

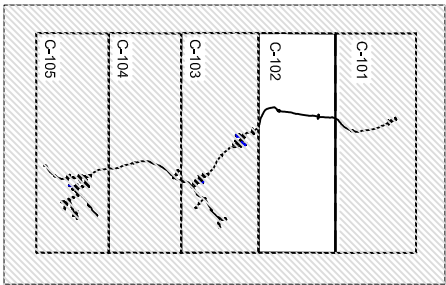
DW.No:	Action Against Hunger				Note: All dimension showed in sheet
	WASH Department				
C-102	Project Name	Water Supply	Design by	Yaddullah Jalali	
	Province	Daikundi	Drawing& Lyout by	Mohamad Nekandesh	
	District	Ashterly	Approved by	.....



1. Node ID:
2. Flow in (liter/sec)
3. Velocity in (meter/sec)
4. Pressure Head (m)

0.60 L/s
0.25 m/s

BPT-1
98 m



Site Plan

Legend

SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

Coordinates			
NAMES	EAST	NORTH	ELEVATION
SPRING	297263.000	3797081.000	2823.000
RESERVOIR	297260.000	3796152.000	2811.000
B.P.1	297444.000	3796371.000	2741.000
B.P.2	297446.000	3794926.000	2963.000

Action Against Hunger

WASH Department

Project Name	Water Supply	Design by	Yaddullah Jalali
Province	Daikundi	Drawing& Layout by	Mohamad Nekandesh
District	Ashterly	Approved by	.....

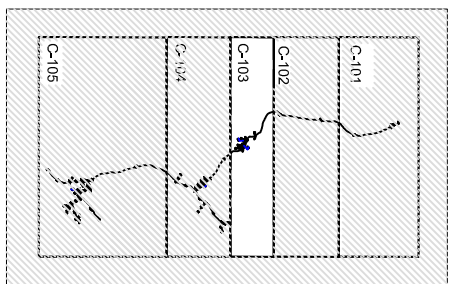
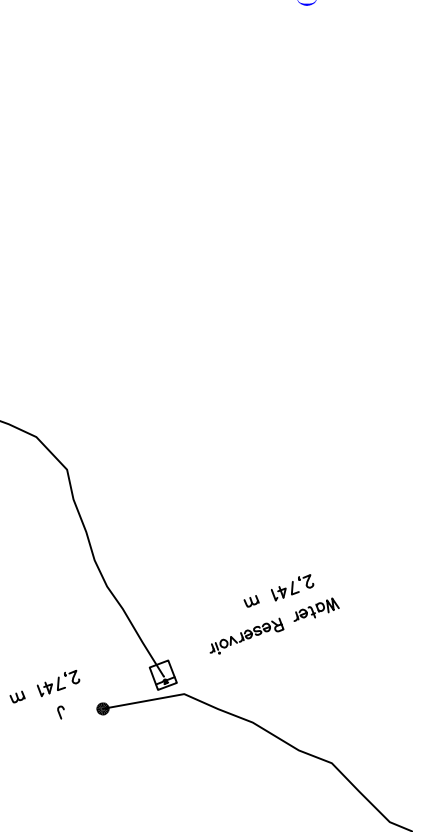
Note: All dimension showed in sheet

DW.No:

C1-102



1. Node ID:
2. Length in (m)
3. In Diameter in (mm)
4. Head loss Gradient in (m/km)
5. Elevation in (m)



20/7/2023

20/7/2023

SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

Coordinates		
NAMES	EAST	NORTH
SPRING	257283.000	3797081.000
RESERVOIR	257280.000	3796912.000
B.P.T	257444.000	3796371.000
B.P.V	257442.000	3794828.000
		2863.000

Action Against Hunger

WASH Department

DW.No:

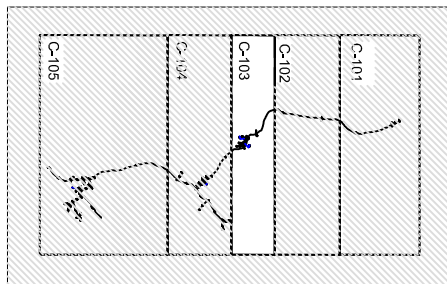
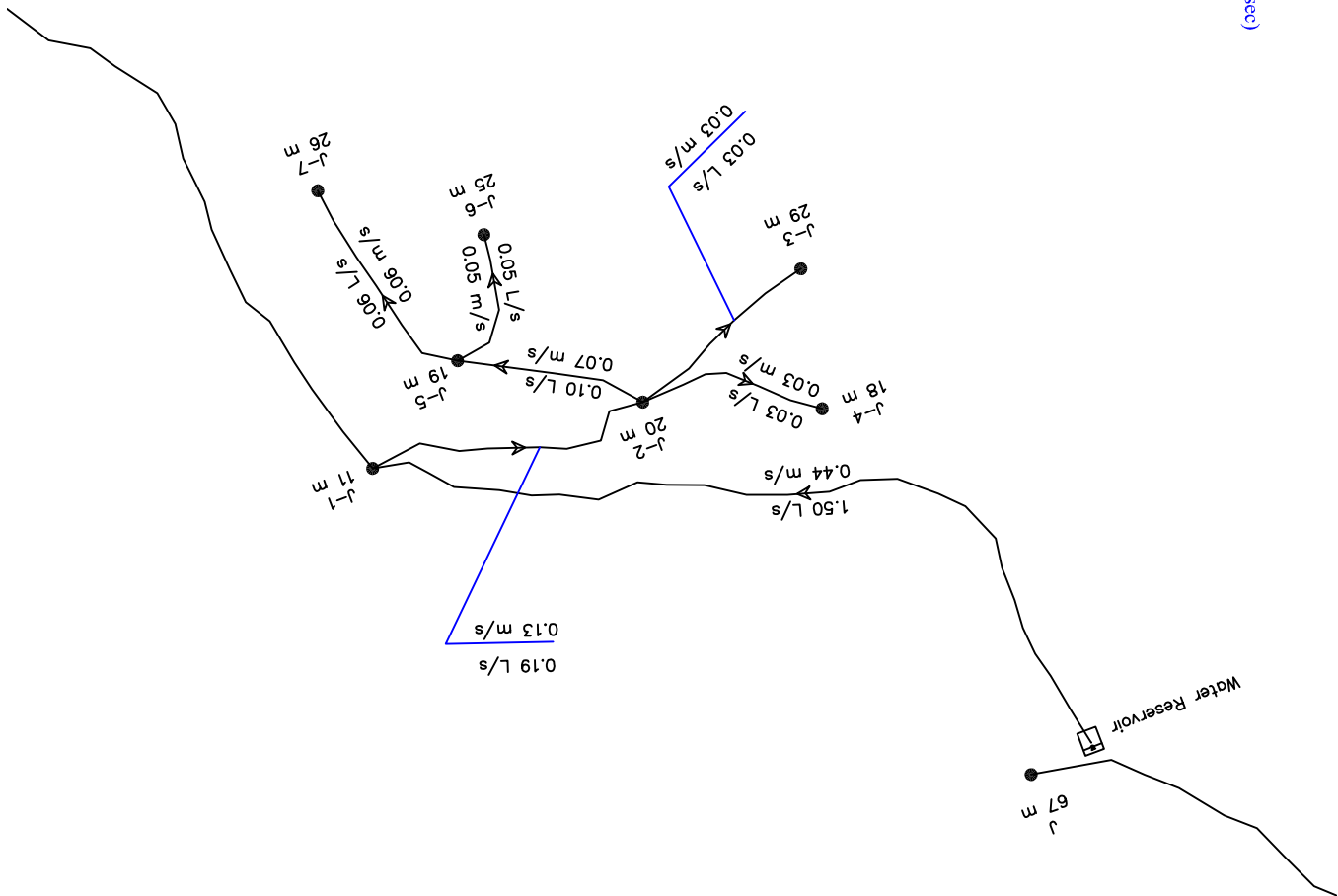
C-103

Note: All dimension showed in sheet

Project Name	Water Supply	Design by	Yaddullah Jalali
Province	Daikundi	Drawing& Layout by	Mohamad Nekandesh
District	Ashterly	Approved by	.....



1. Node ID:
2. Flow in (liter/sec)
3. Velocity in (meter/sec)
4. Pressure Head (m)



20/7/2023

20/7/2023

SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

NAME	EAST	NORTH	ELEVATION
SPRING	257283.000	3797081.000	2823.000
RESERVOIR	257280.000	3796952.000	2811.000
B.P.1	257144.000	3796371.000	2741.000
B.P.2	257144.000	3796371.000	2843.000

Action Against Hunger

WASH Department

DW.No:

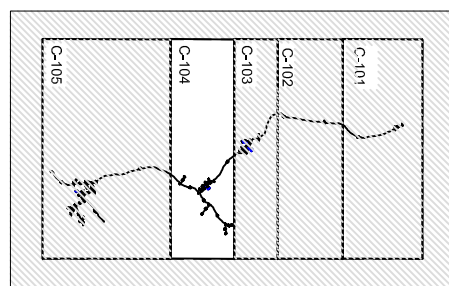
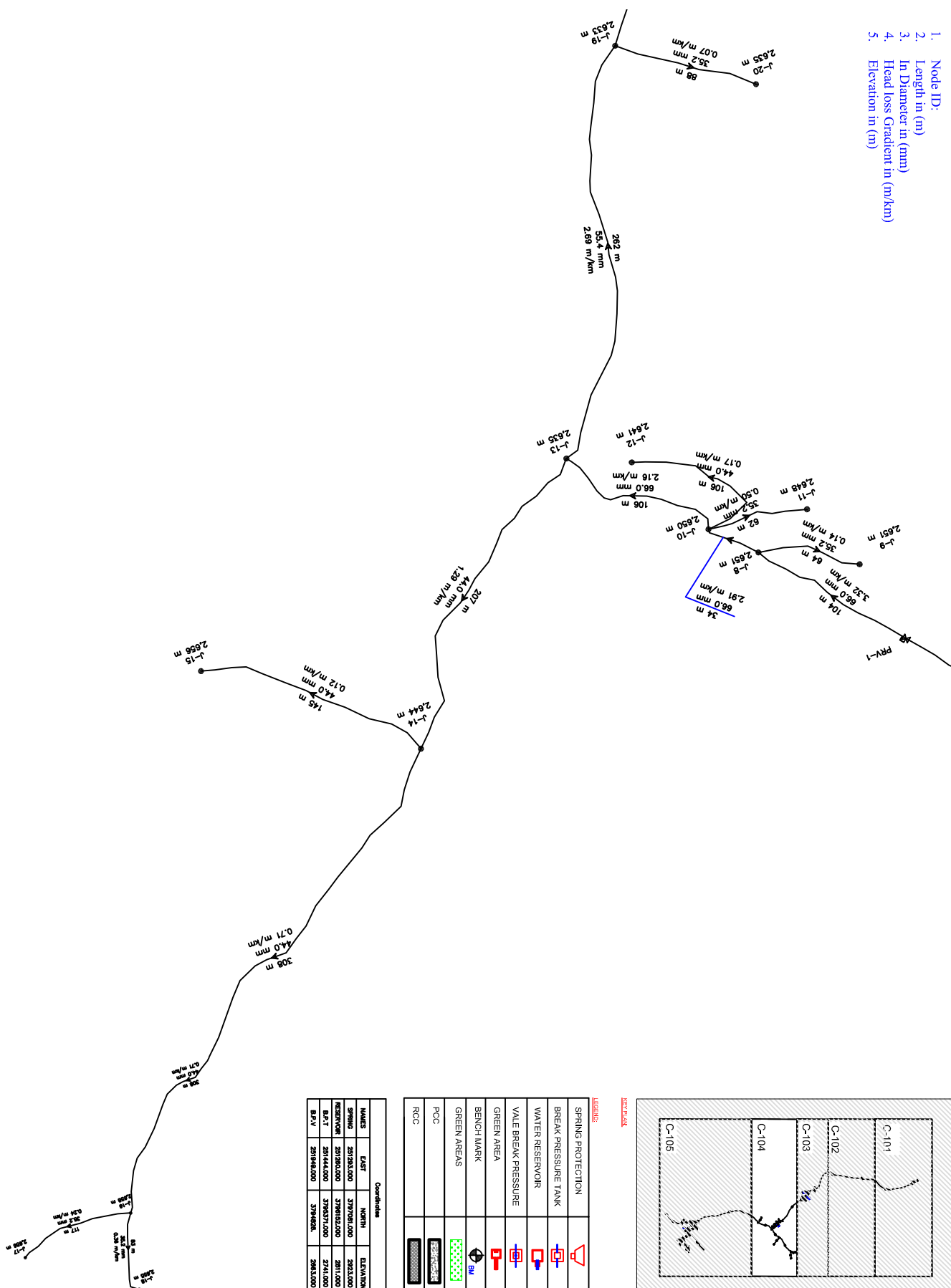
C1-103

Note: All dimension showed in sheet

Project Name	Water Supply	Design by	Yaddullah Jalali
Province	Daikundi	Drawing& Layout by	Mohamad Nekandesh
District	Ashterly	Approved by	.....



1. Node ID:
2. Length in (m)
3. In Diameter in (mm)
4. Head loss Gradient in (m/km)
5. Elevation in (m)



Legend		
SPRING PROTECTION		
BREAK PRESSURE TANK		
WATER RESERVOIR		
VALE BREAK PRESSURE		
GREEN AREA		
BENCH MARK		
GREEN AREAS		
PCC		
RCC		

Coordinates		
NAMES	EAST	NORTH
SPRING	201283.000	3797081.000
RESERVOIR	201280.000	3796912.000
B.P.1	201444.000	3796371.000
B.P.2	201444.000	3796371.000

Action Against Hunger

WASH Department

Note: All dimension showed in sheet

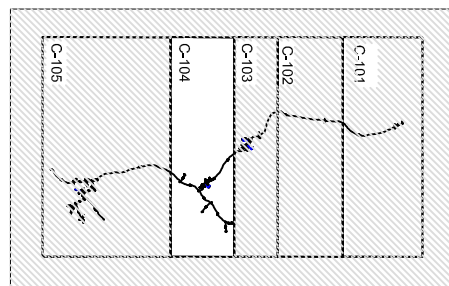
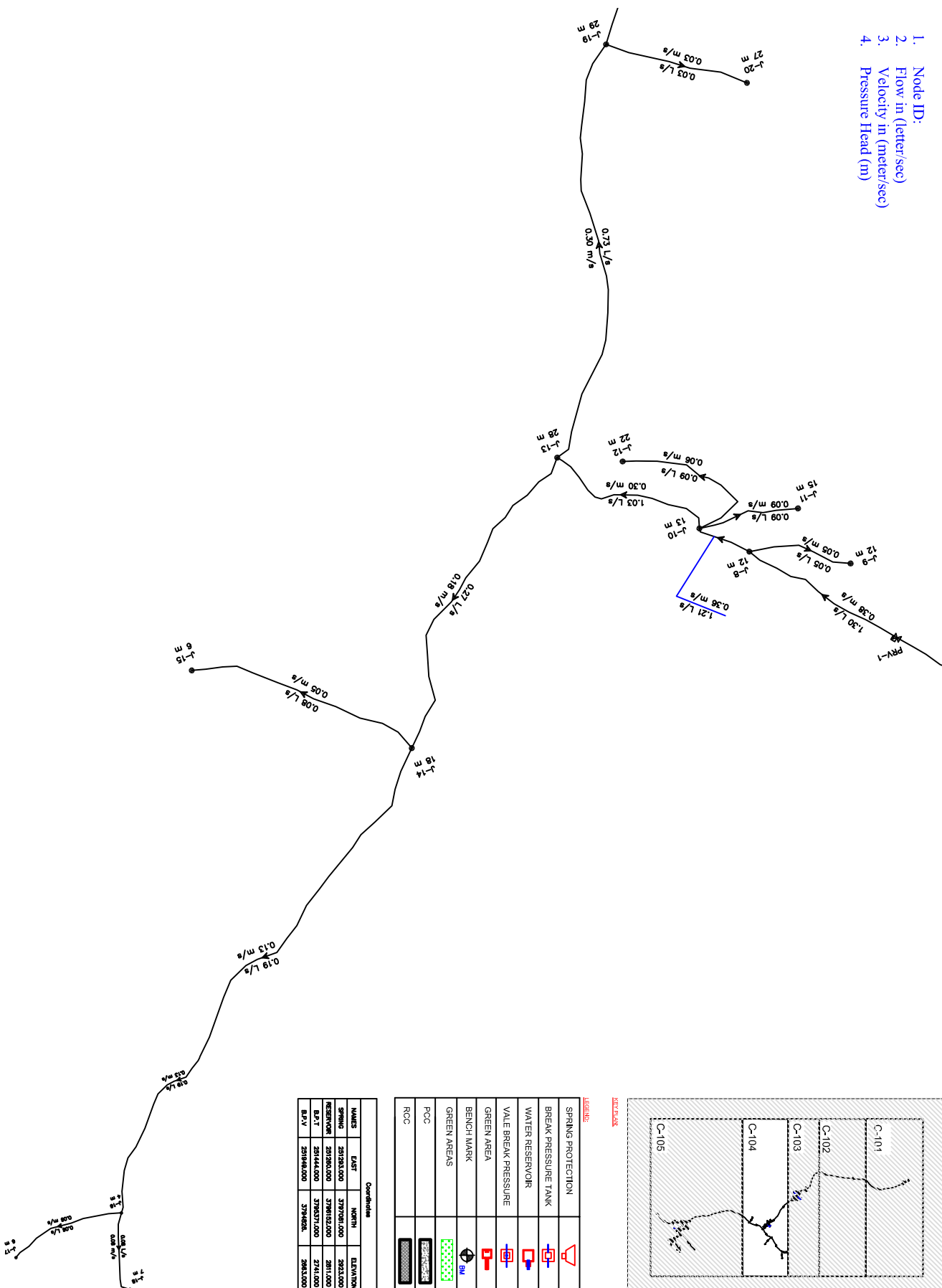
DW.No:

C-104

Project Name	Water Supply	Design by	Yaddullah Jalali
Province	Daikundi	Drawing& Layout by	Mohamad Nekandesh
District	Ashterly	Approved by	.....



1. Node ID:
2. Flow in (liter/sec)
3. Velocity in (meter/sec)
4. Pressure Head (m)



Legend		
SPRING PROTECTION		
BREAK PRESSURE TANK		
WATER RESERVOIR		
VALE BREAK PRESSURE		
GREEN AREA		
BENCH MARK		
GREEN AREAS		
PCC		
RCC		

Coordinates		
NAMES	EAST	NORTH
SPRING	201263.000	3797081.000
RESERVOIR	201263.000	3797081.000
B.P.1	201444.000	3798371.000
B.P.2	201444.000	3798371.000
B.P.3	201444.000	3798371.000

Action Against Hunger

WASH Department

DW.No:

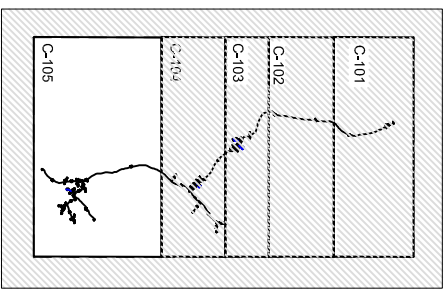
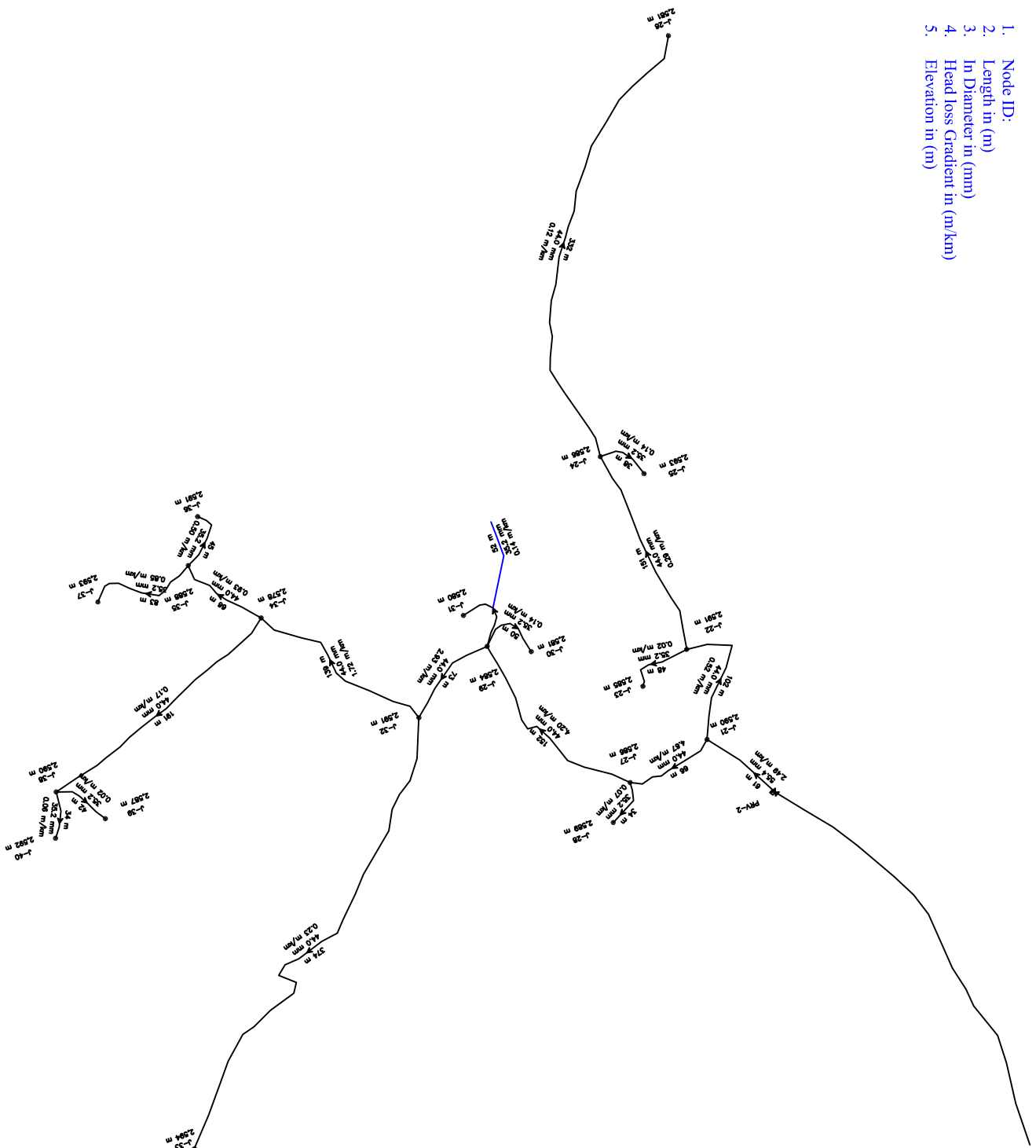
C1-104

Note: All dimension showed in sheet

Project Name	Water Supply	Design by	Yaddullah Jalali
Province	Daikundi	Drawing& Layout by	Mohamad Nekandesh
District	Ashterly	Approved by	.....



1. Node ID:
2. Length in (m)
3. In Diameter in (mm)
4. Head loss Gradient in (m/km)
5. Elevation in (m)



SECTION

LEGEND

SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

Coordinates		
NAMES	EAST	NORTH
SPRING	207200.000	3797000.000
RESERVOIR	207200.000	3796100.000
B.P.1	207440.000	3796371.000
B.P.2	207440.000	3794600.000

Action Against Hunger

WASH Department

Project Name	Water Supply	Design by	Yaddullah Jalali
Province	Daikundi	Drawing& Layout by	Mohamad Nekandesh
District	Ashterly	Approved by	.....

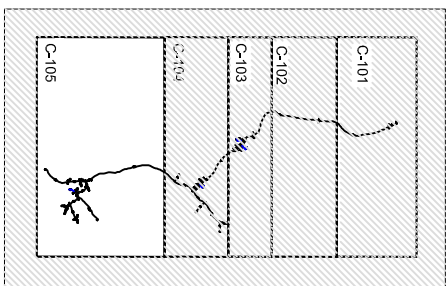
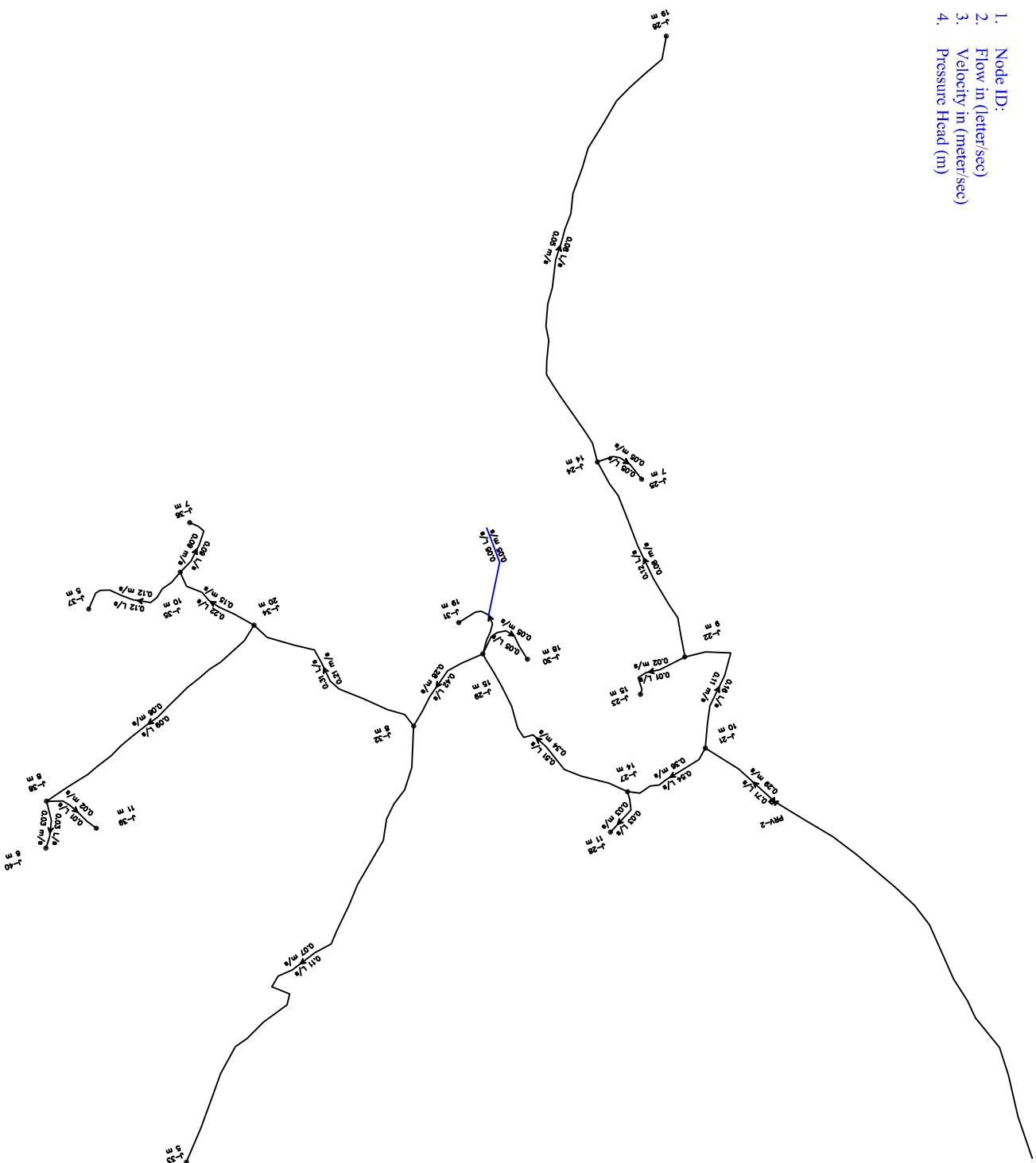
Note: All dimension showed in sheet

DW.No:

C-105



1. Node ID:
2. Flow in (liter/sec)
3. Velocity in (meter/sec)
4. Pressure Head (m)



SECTION

LEGEND

SPRING PROTECTION	
BREAK PRESSURE TANK	
WATER RESERVOIR	
VALE BREAK PRESSURE	
GREEN AREA	
BENCH MARK	
GREEN AREAS	
PCC	
RCC	

Coordinates		
NAMES	EAST	NORTH
SPRING	201933.000	3797091.000
RESERVOIR	201933.000	3797091.000
B.P.T	201933.000	3797091.000
B.P.Y	201933.000	3797091.000

Action Against Hunger

WASH Department

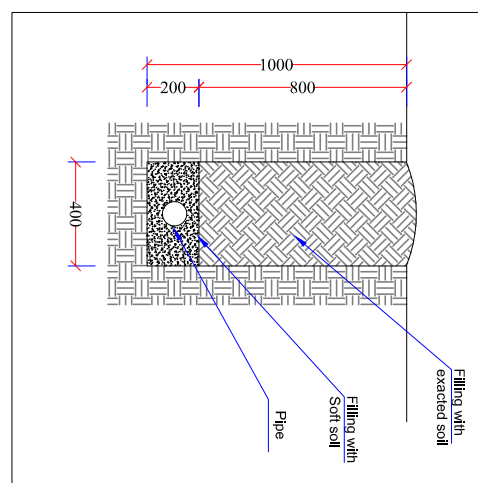
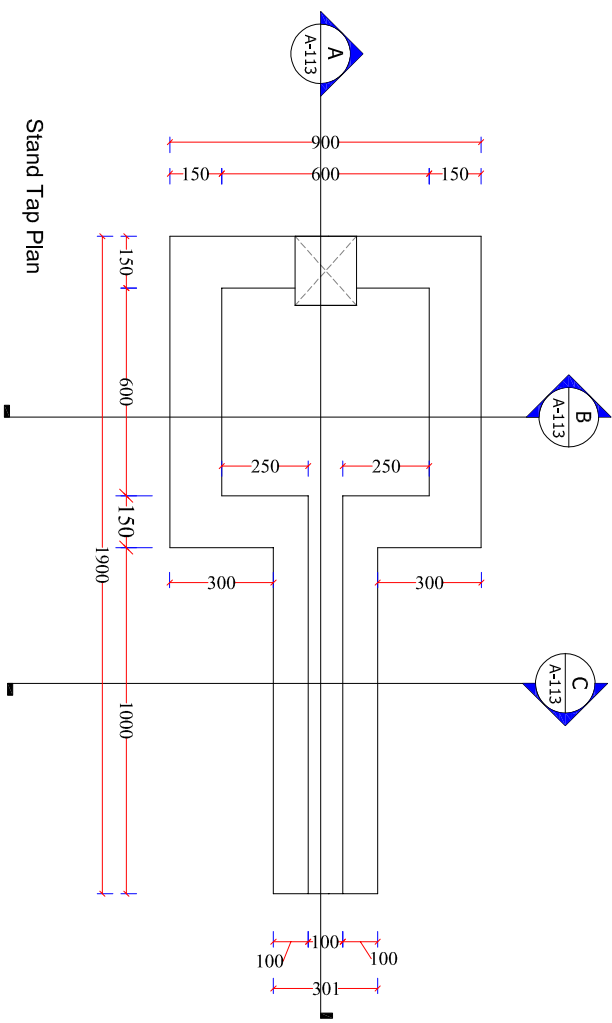
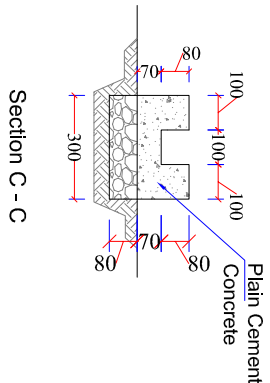
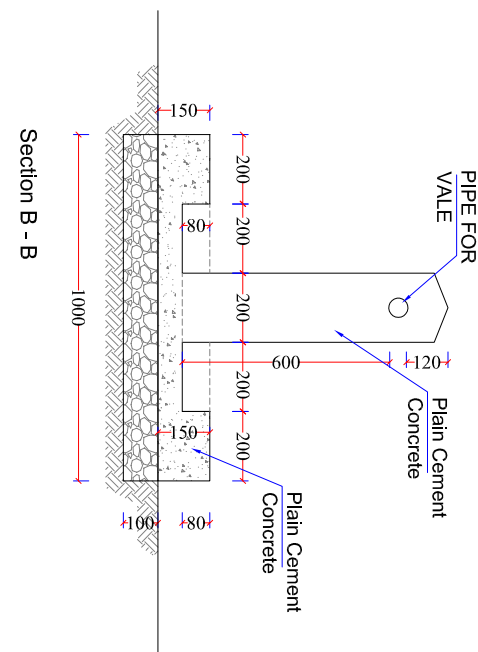
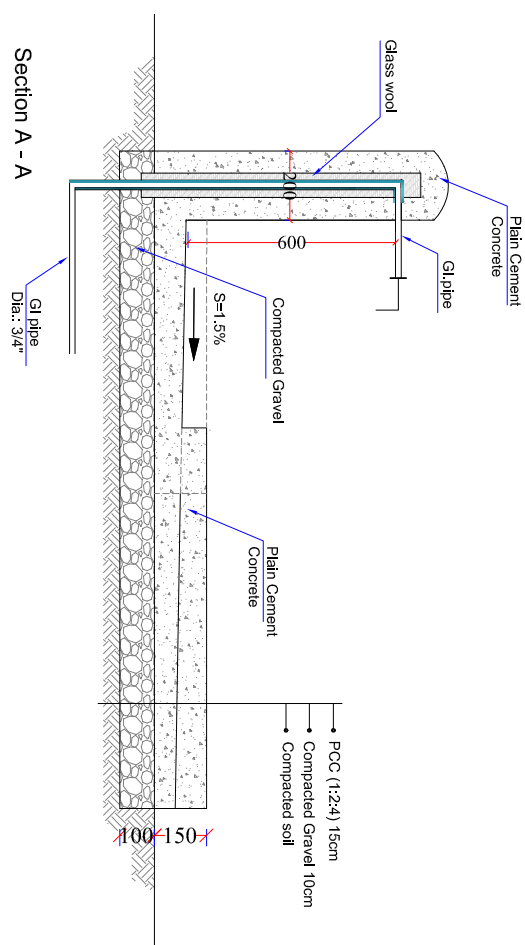
DW.No:


C1-105

Note: All dimension showed in sheet

Project Name	Water Supply	Design by	Yaddullah Jalali
Province	Daikundi	Drawing& Layout by	Mohamad Nekandesh
District	Ashterly	Approved by	.....





	DW.No:	Action Against Hunger				Scale:
		WASH Department				Note: All dimension are in millimeter
	A-113	Project Name	Water Supply	Design&Drawing by	Mohamad Nekandesh	
		Province	Daikundi	Chick by	Mohamad Nekandesh	
District		Ashterly	Approved by	Yaddullah Jalali		