



Shining Hope for Communities
SHINING HOPE FOR COMMUNITIES

**PROCUREMENT OF
CONSTRUCTION WORKS FOR THE PROPOSED KIBERA INVESTMENT
DELIVERING SAFE WATER (K.I.D.S.) PROJECT**

CONTRACT NO.: SHOFCO-KIBRA-LOT2-2022

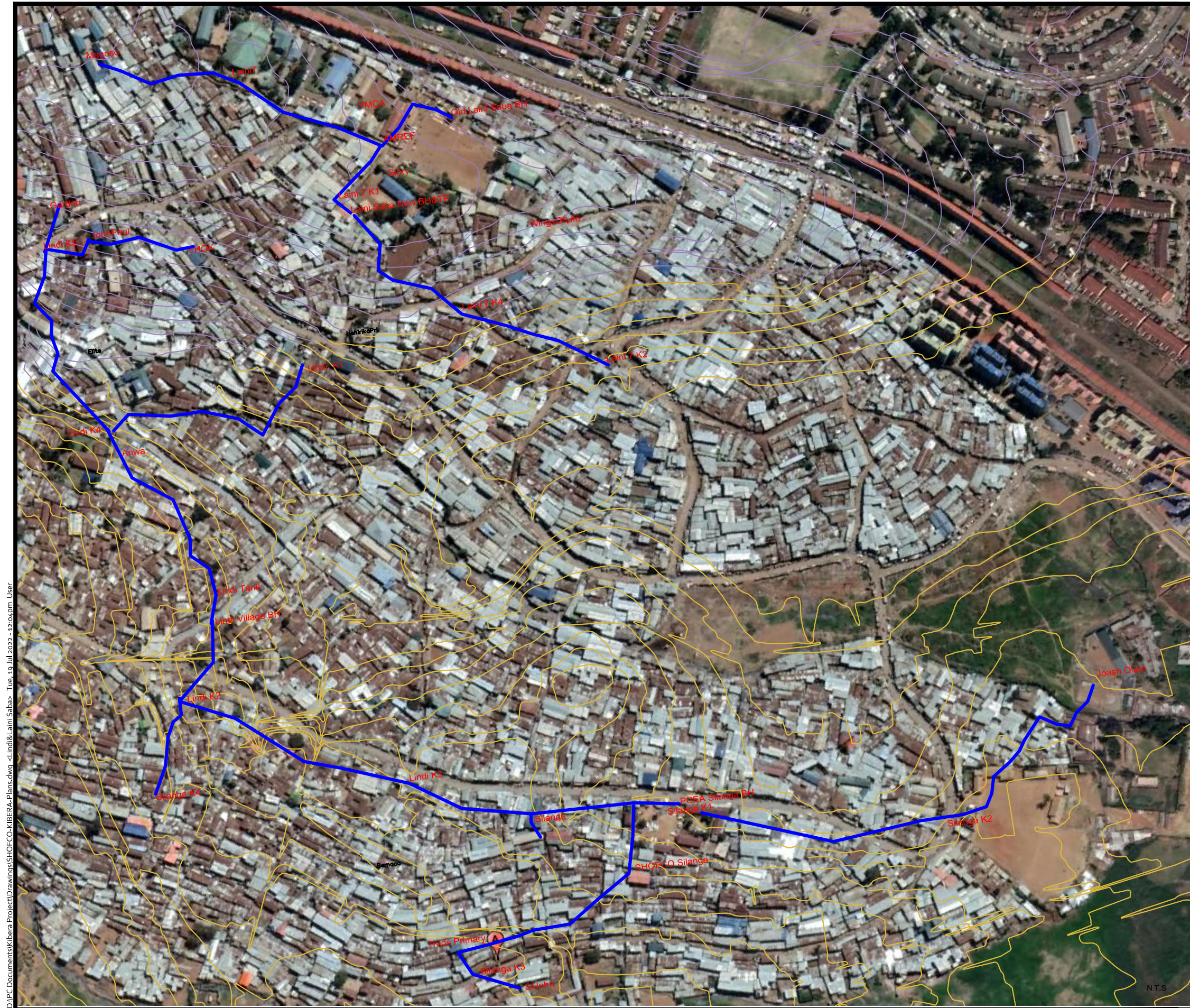
VOLUME IV: BOOK OF DRAWINGS

JULY 2022



KIBERA INVESTMENT DELIVERING SAFE WATER PROJECT			
LOT 2: WATER SUPPLY NETWORK DRAWINGS			
DRAWING INDEX SHEET			
PAGE	DRAWING NUMBER	DESCRIPTION	NUMBER OF DRAWINGS
1		PIPELINE LAYOUT	
2	SHOFCO/KBR/001-1	LAYOUT – LINDI & LAINI SABA DISTRIBUTION PIPELINE	1
3	SHOFCO/KBR/001-2	LAYOUT – MAKINA DISTRIBUTION PIPELINE	1
4	SHOFCO/KBR/001-3	LAYOUT – SUBRA & KIANDA DISTRIBUTION PIPELINE WORKS	1
5		LAINI SABA NETWORK	
6	SHOFCO/KBR/002-1	LAINI SABA TANK - MAGOSO	1
7	SHOFCO/KBR/002-2	LAINI SABA TANK – LAINI SABA K2	1
8	SHOFCO/KBR/002-3	LAINI SABA OLD BH – LAINI SABA TREATMENT PLANT	1
9		LINDI NETWORK	
10	SHOFCO/KBR/003-1	SILANGA BH – LINDI TREATMENT PLANT	1
11	SHOFCO/KBR/003-2	LINDI TANK – JOASH OLUM	2
13	SHOFCO/KBR/003-3	LINDI TANK - FHOK	2
15	SHOFCO/KBR/003-4	LINDI K4 – LINDI K1	1
16	SHOFCO/KBR/003-5	LINDI K2 – SILANGA K4	1
17	SHOFCO/KBR/003-6	BRANCH TO ST. JOHN	1
18		MAKINA NETWORK	
19	SHOFCO/KBR/004-1	BRANCH TO ELITE	1
20	SHOFCO/KBR/004-2	MAKINA K2 – MAKINA K7	1
21	SHOFCO/KBR/004-3	MAKINA TANK - STARA	2
23	SHOFCO/KBR/004-4	MAKINA TANK - CALVARY	2
25		SUBRA NETWORK	
26	SHOFCO/KBR/005-1	SUBRA TANK – SUBRA K2	2
28	SHOFCO/KBR/005-2	SUBRA TANK – KIANDA TANK RISING MAIN	4
32	SHOFCO/KBR/005-3	KIANDA TANK – KIANDA K1	2
34	SHOFCO/KBR/005-4	BRANCH TO REDROSE	1
35	SHOFCO/KBR/005-5	BRANCH TO OLOO	1
36	SHOFCO/KBR/005-6	BRANCH TO TRINITY KIBERA	1
37	SHOFCO/KBR/005-7	BRANCH TO JULIE HOPE	1
38	SHOFCO/KBR/006	SUPPORT COLUMNS	1
39		ELEVATED WATER TANKS	
40	SHOFCO/KBR/007-1	ELEVATED 48M ³ STEEL TANK – MAKINA & LINDI	2
42	SHOFCO/KBR/007-2	ELEVATED 32M ³ STEEL TANK – KIANDA & LAINI SABA	1
43		WATER KIOSK	
44	SHOFCO/KBR/008	STANDARD WATER KIOSK TYPE I	16

PIPELINE NETWORK



D:\PC Documents\Kibera Project\Drawings\SHOFCO-KIBERA-Plans.dwg <Lindi&Laina Saba> Tue, 19 Jul 2022 - 12:04pm User

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read off and not scaled.
3. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.

KEY:

PIPELINE

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT**

ENGINEER:

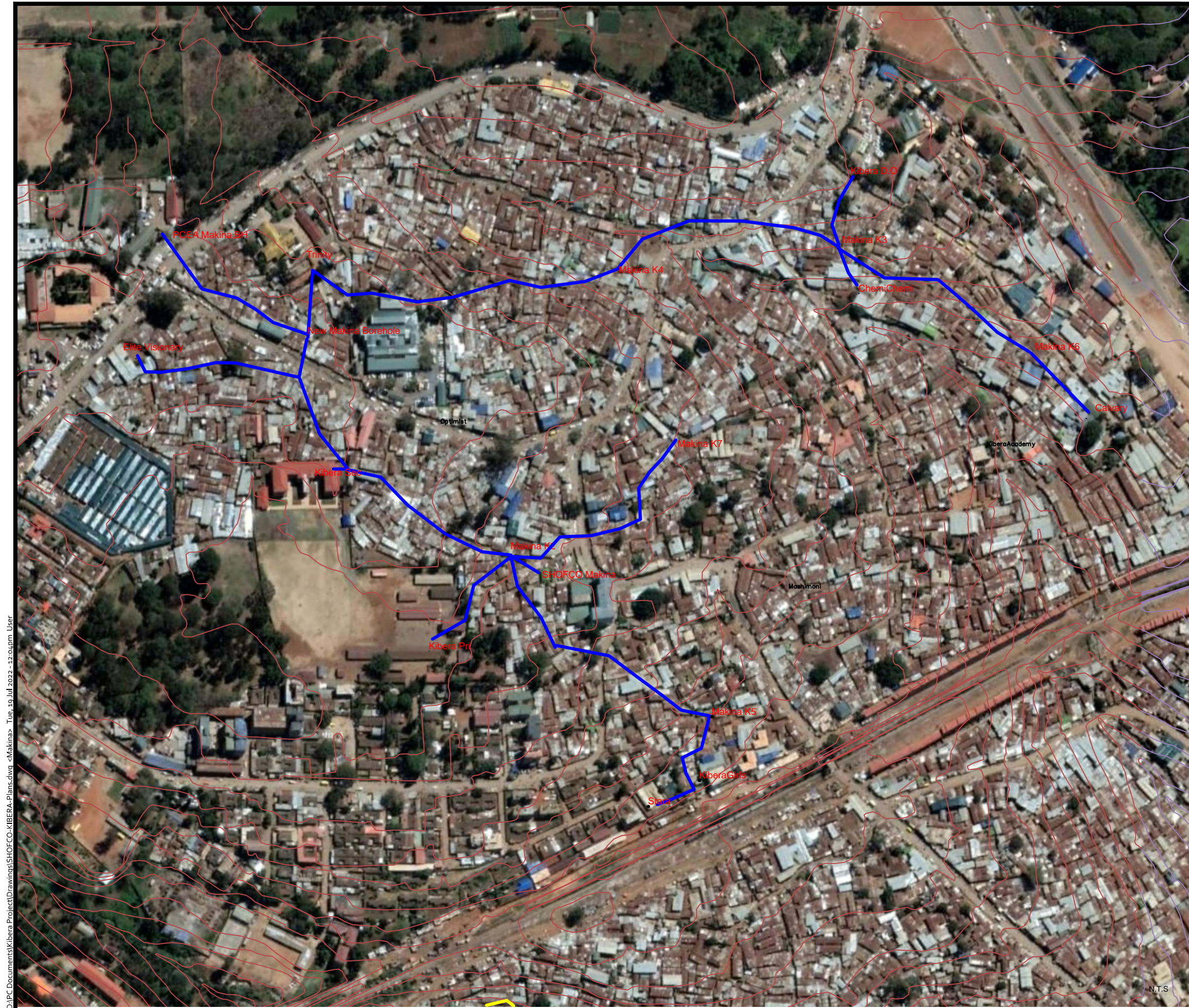


DRAWING TITLE:

**LAYOUT - LINDI & LAINI
SABA DISTRIBUTION
PIPELINE**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/001-1



NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read off and not scaled.
3. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.

KEY:

PIPELINE

CLIENT



Shining Hope for Communities

SHINING HOPE FOR COMMUNITIES (SHOFKO)

PROJECT:

KIBERA INVESTMENT DELIVERING SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT IN KIBERA INFORMAL SETTLEMENT

ENGINEER:



Advanced Water Process Solutions Ltd.



DRAWING TITLE:

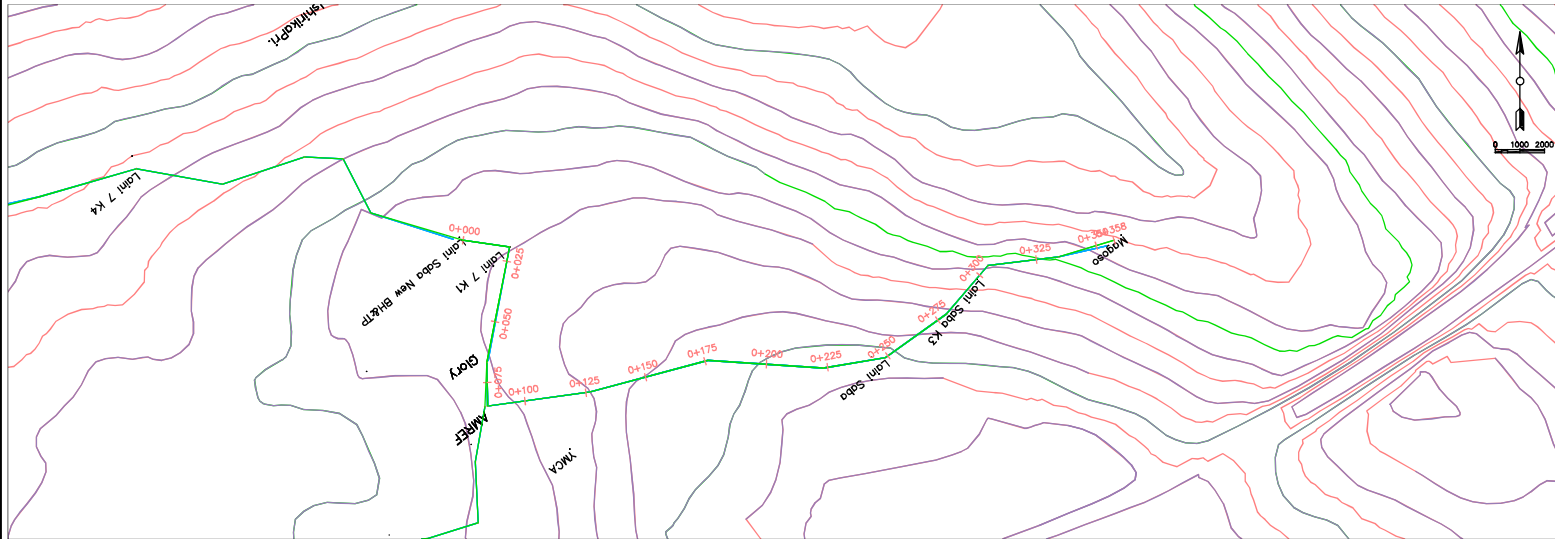
LAYOUT - MAKINA DISTRIBUTION PIPELINE

DRAWING DETAILS:	
Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFKO/KBR/001-2

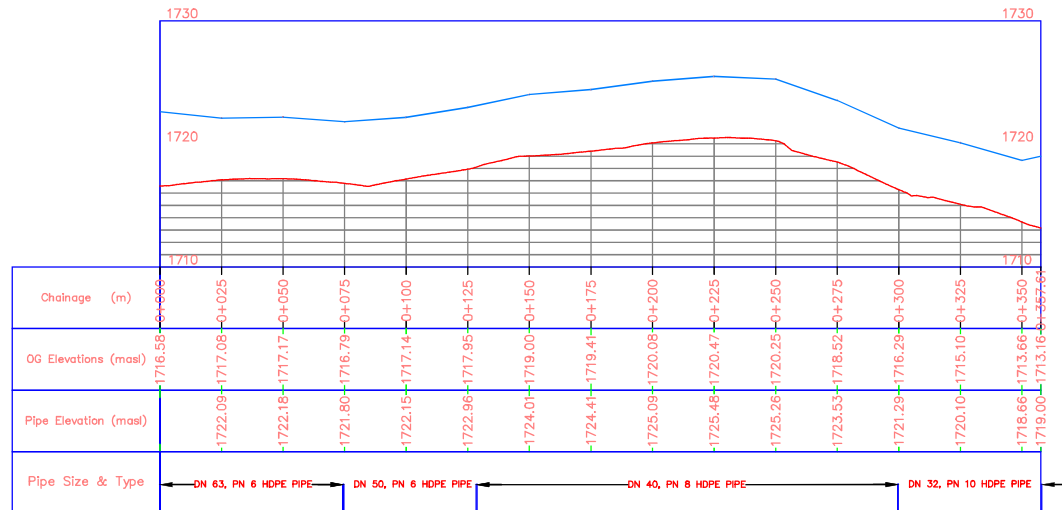
D:\PC Documents\Kibera Project\Drawings\SHOFKO-KIBERA_Plans.dwg -<Makina> Tue, 10 Jul 2022 - 12:04pm User

LAINI SABA NETWORK

D:\PC Documents\Kibera Project\Drawings\ALLVFS - Laini Saba Tank - Magoso - (3).dwg - Sheet - (3).dgn Mon, 20 Jun 2022 - 09:00pm User



Laini Saba Tank - Magoso PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



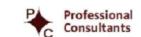
SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT

ENGINEER:



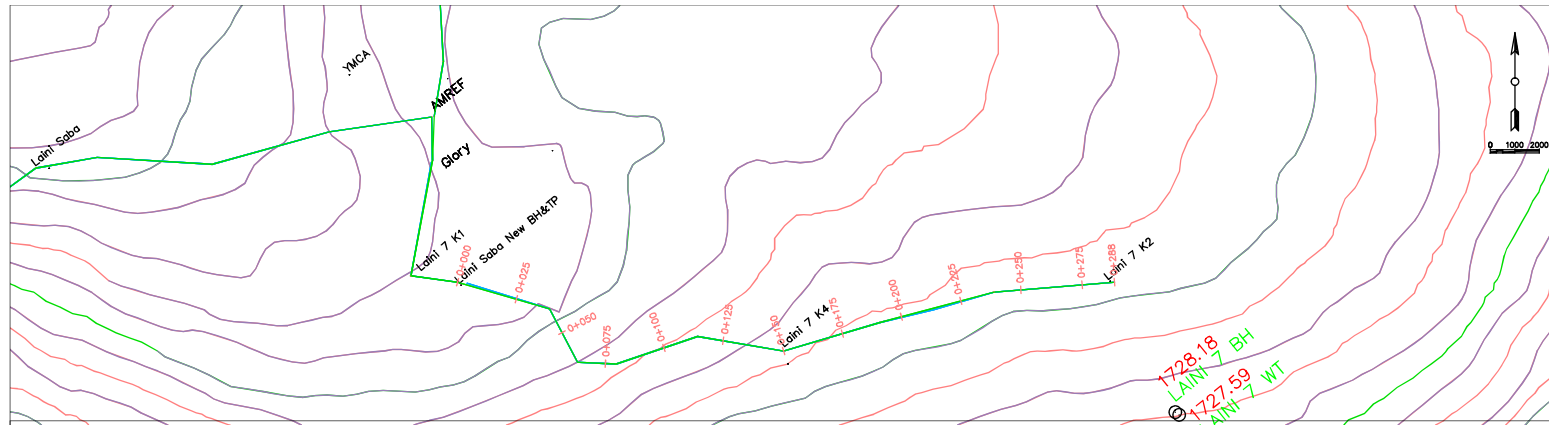
DRAWING TITLE:

LAINI SABA TANK - MAGOSO

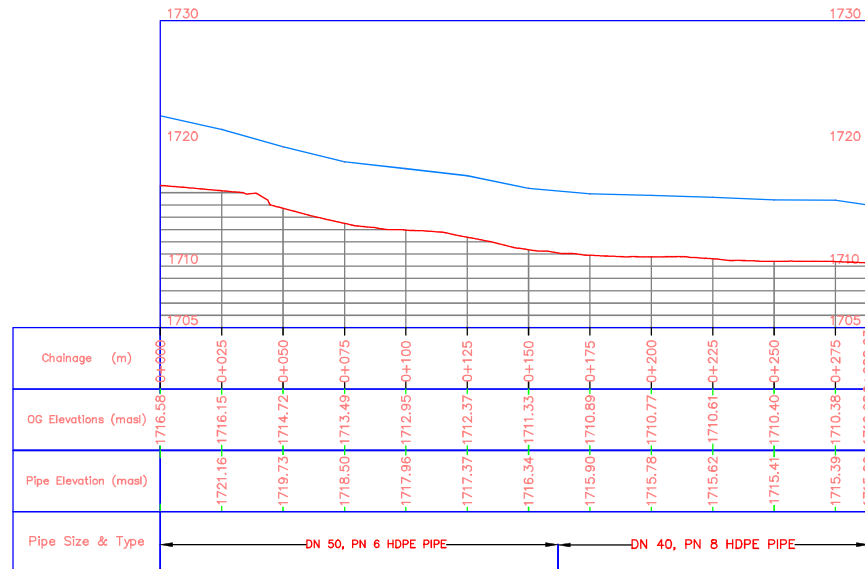
DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/002-1

D:\PC Documents\Kibera Project\Drawings\DWG - Laini Saba Tank - Laini Saba K2 - 113 - 113.dwg, Sheet: 168, Mon, 29 Jun 2022, 10:27:00, User



Laini Saba Tank – Laini Saba K2 PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT
**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:

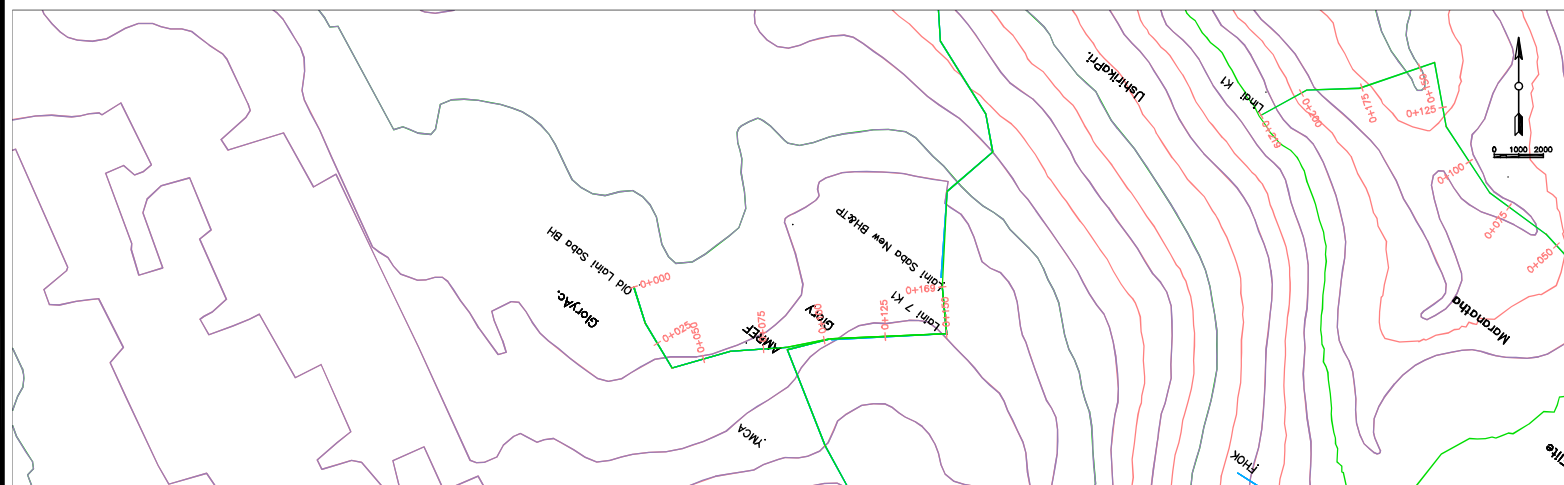


DRAWING TITLE:

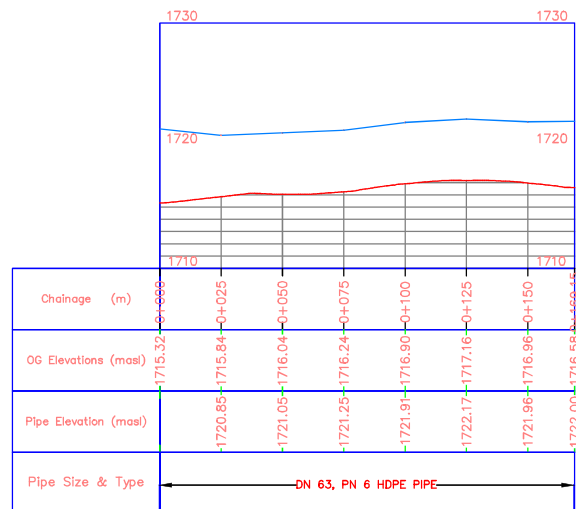
**LAINI SABATANK - LAINI
SABA K2**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCKBR/002-2



Laini Saba Old BH – Laini Saba TP PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



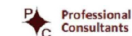
SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT**

WATER SUPPLY PROJECT IN KIBRA INFORMAL SETTLEMENT

ENGINEER:



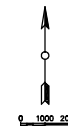
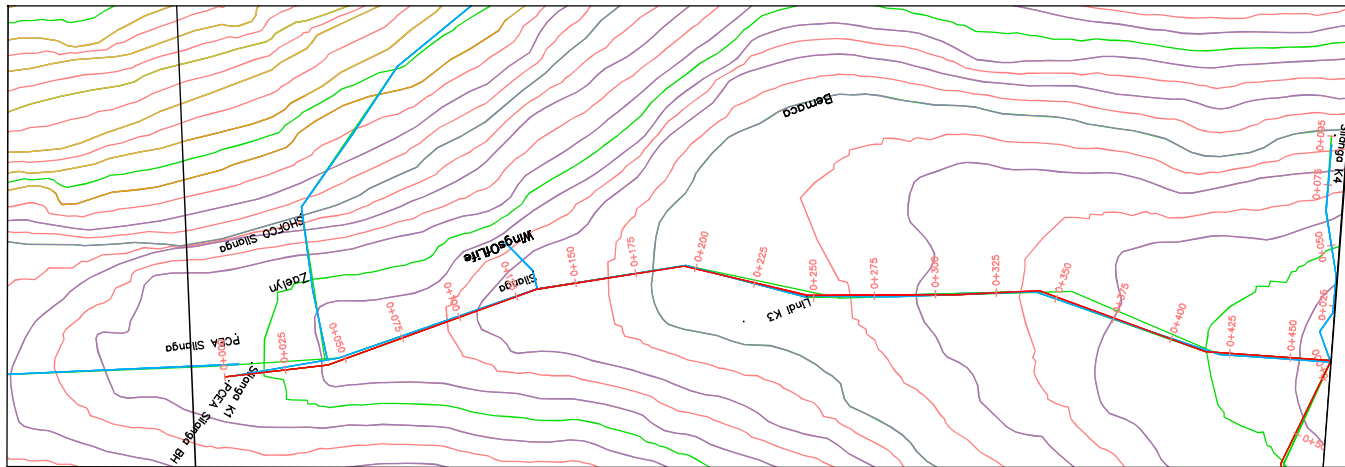
DRAWING TITLE:

LAINI SABA OLD BH -LAINI
SABA TP

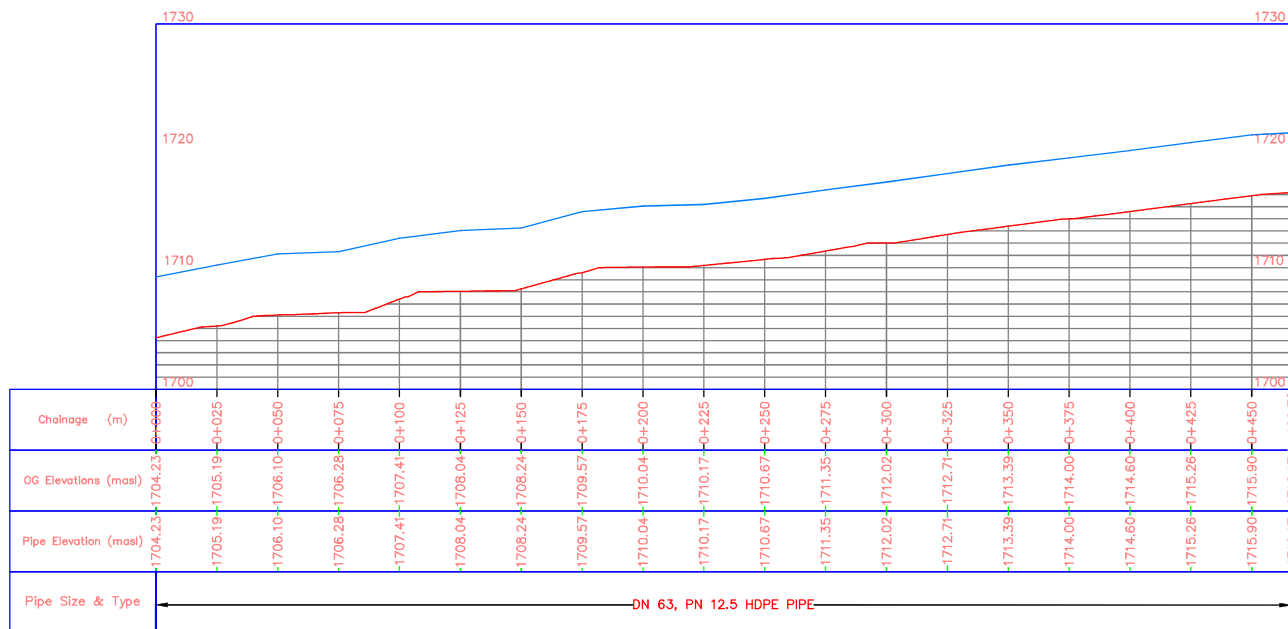
DRAWING DETAILS:

DRAWING DETAILS:	
Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/002-3

LINDI NETWORK



Silanga BH - TP PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



SHINING HOPE FOR COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING SAFE WATER (KIDS) PROJECT
WATER SUPPLY PROJECT IN KIBERA INFORMAL SETTLEMENT

ENGINEER:

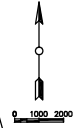
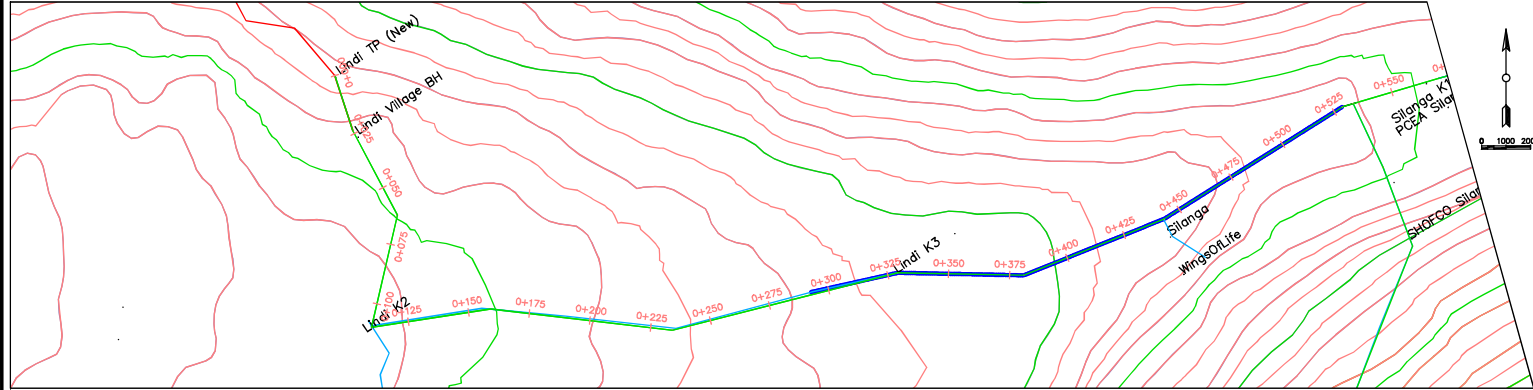


DRAWING TITLE:

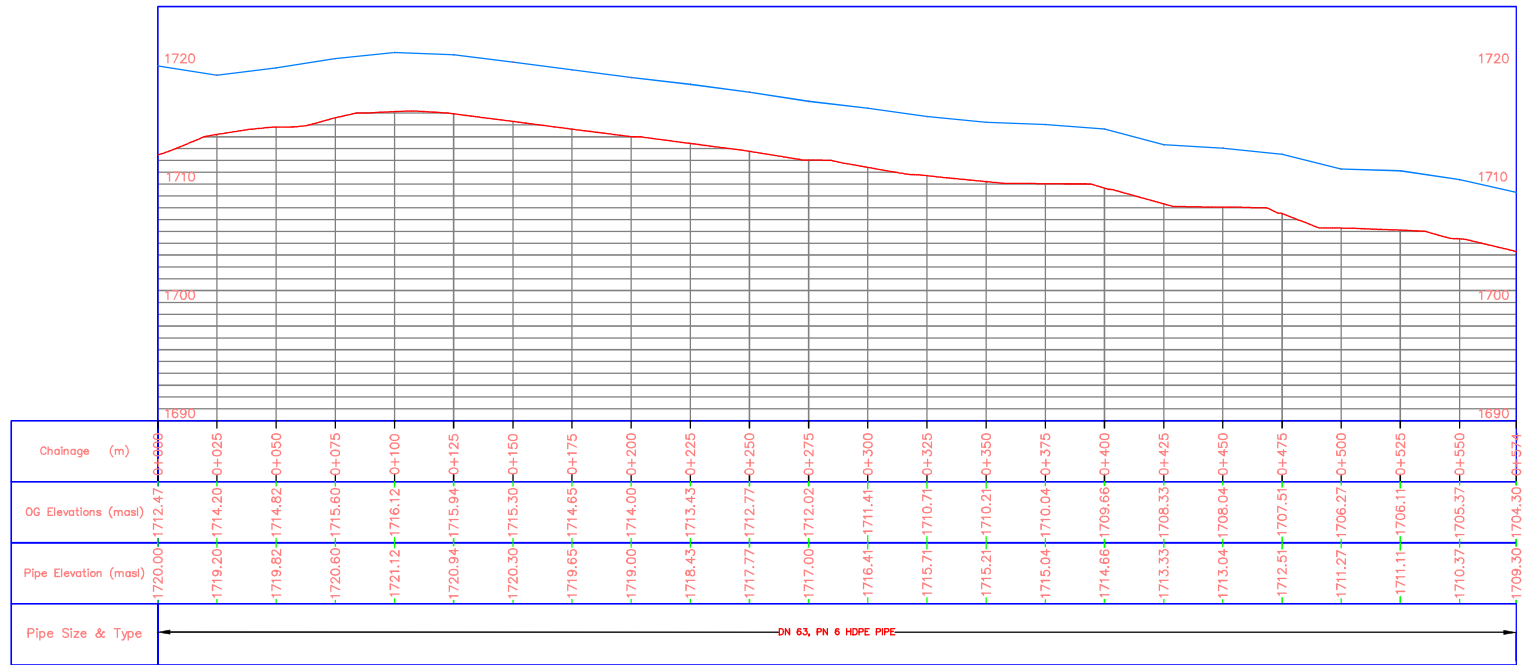
SILANGA BH - LINDI TP

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/003-1



Lindi Tank - Joash Olum PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:



**Professional
Consultants**

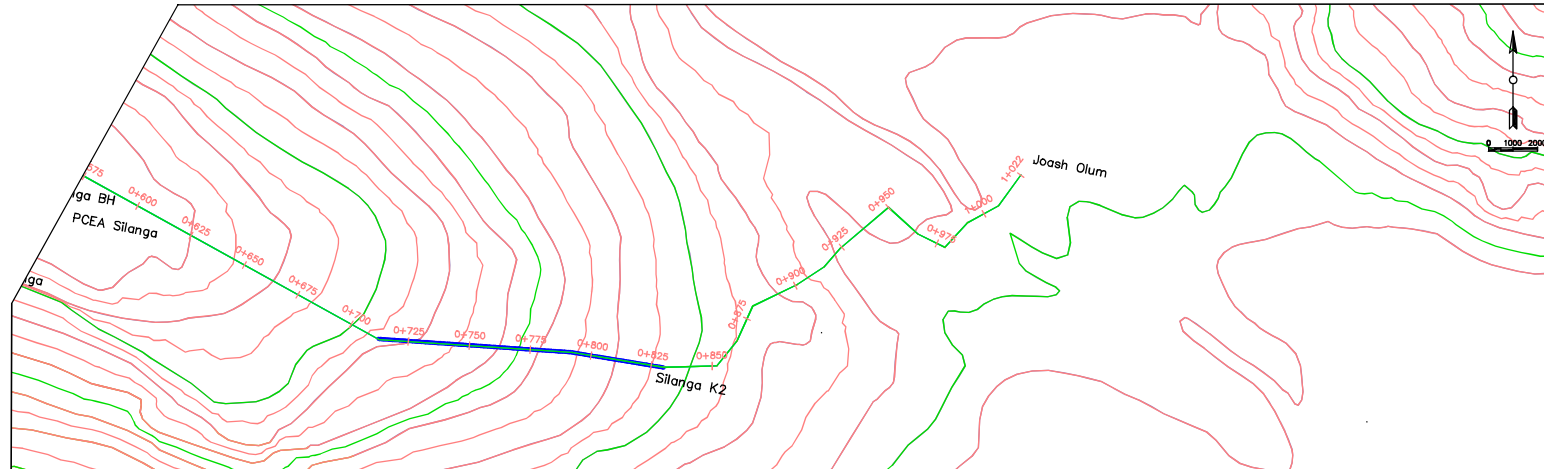
DRAWING TITLE:

LINDI TANK - JOASH OLUM

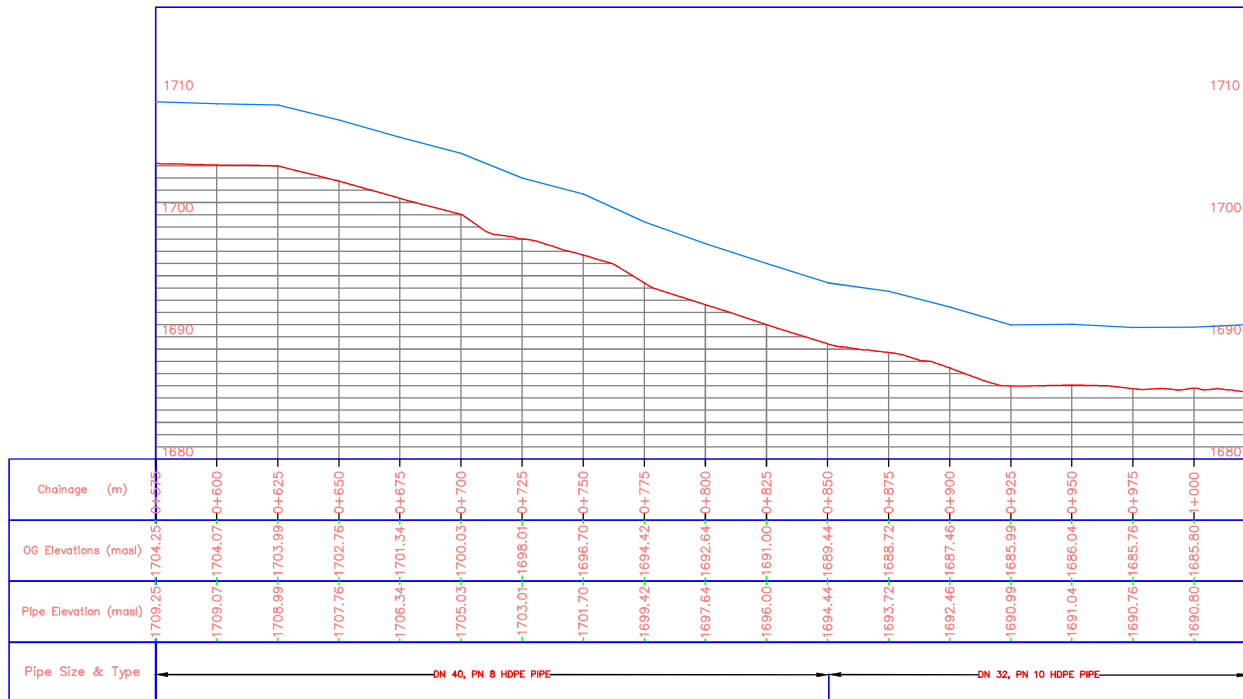
DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 2
Drawing No:	SHOFCO/KBR/003-2

D:\PC Documents\Kibera Project\Drawings\VF - Lindi Tank - Joash Olum - (2) - (15).dwg, <Sheet - (15)> Tue, 19 Jul 2022 2:04:39pm User



Lindi Tank - Joash Olum PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



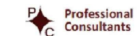
SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT

ENGINEER:



DRAWING TITLE:

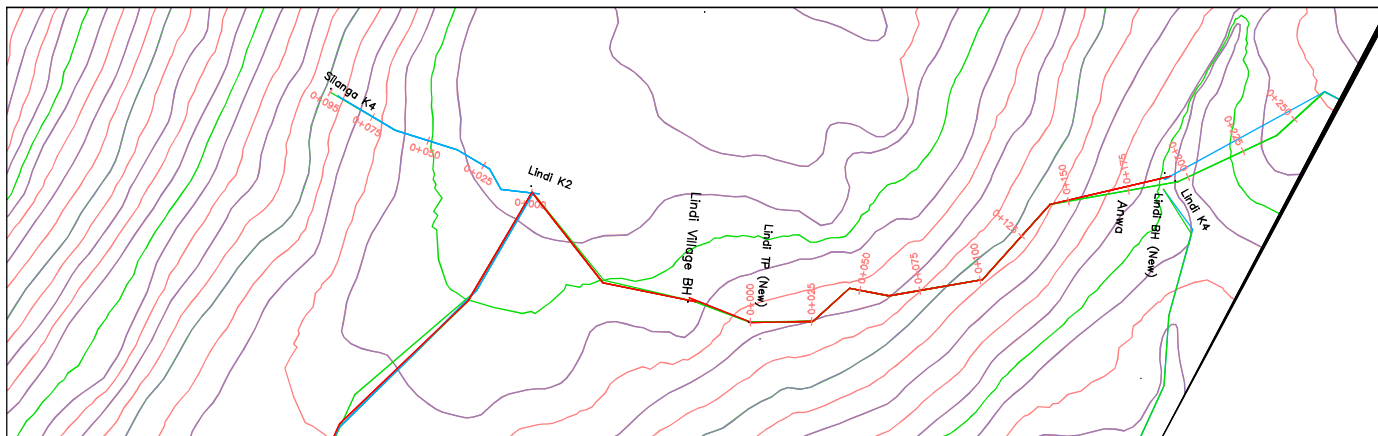
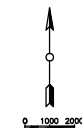
LINDI TANK - JOASH OLUM

DRAWING DETAILS:

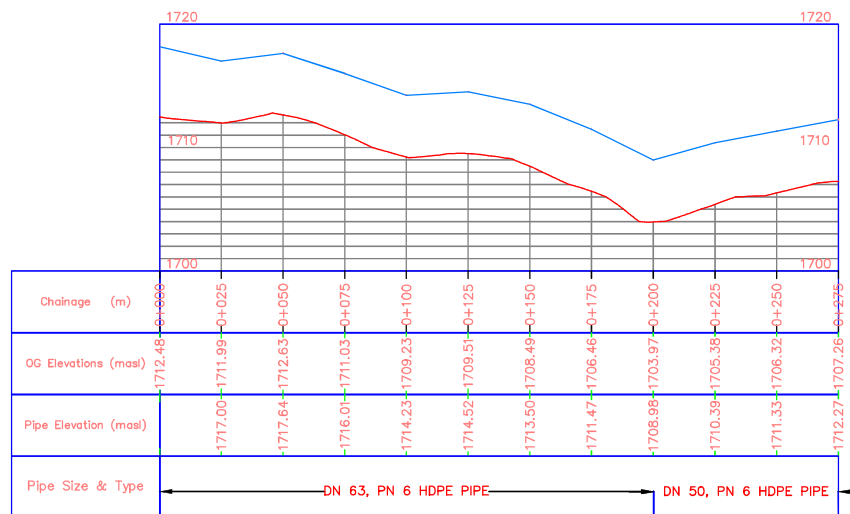
Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	2 of 2
Drawing No:	SHOFCO/KBR/003-2

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.



Lindi Tank – FHOK PROFILE



N.T.S

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:



DRAWING TITLE:

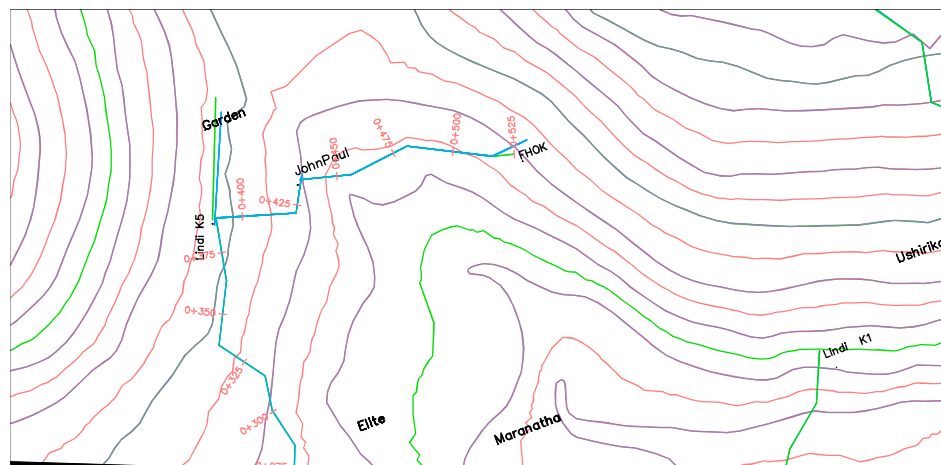
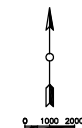
LINDI TANK - FHOK

DRAWING DETAILS:

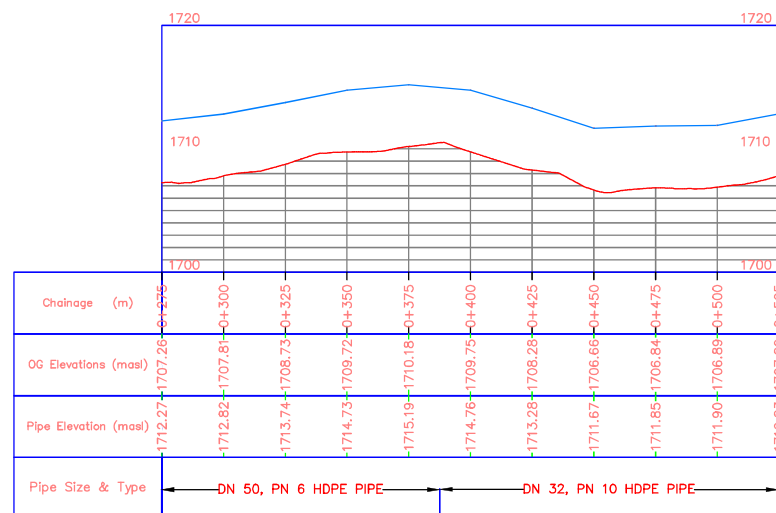
Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 2
Drawing No:	SHOFCO/KBR/003-3

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.



Lindi Tank – FHOK PROFILE



N.T.S

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFKO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:



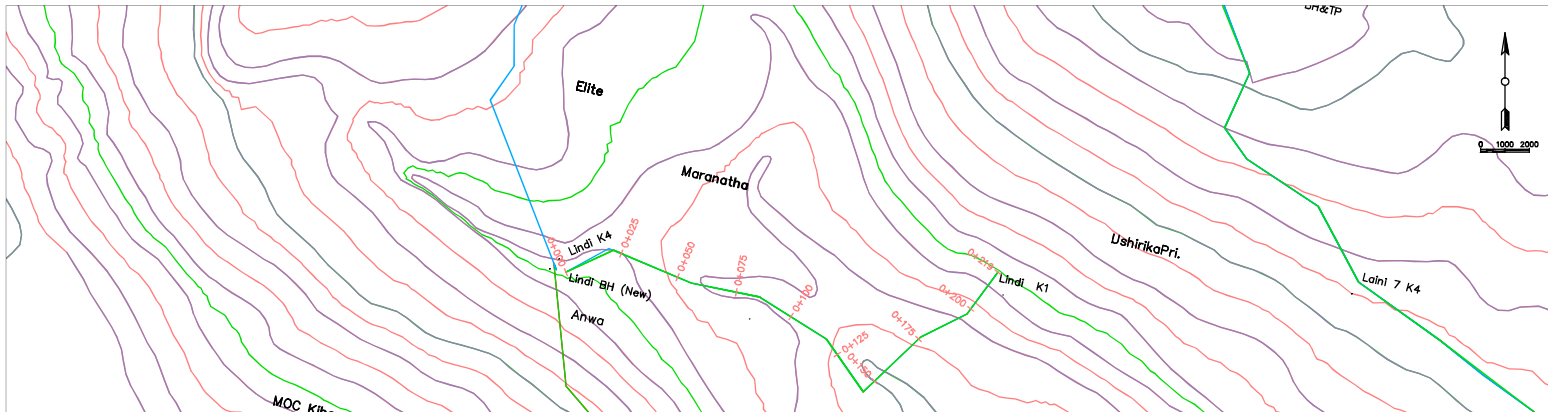
DRAWING TITLE:

LINDI TANK - FHOK

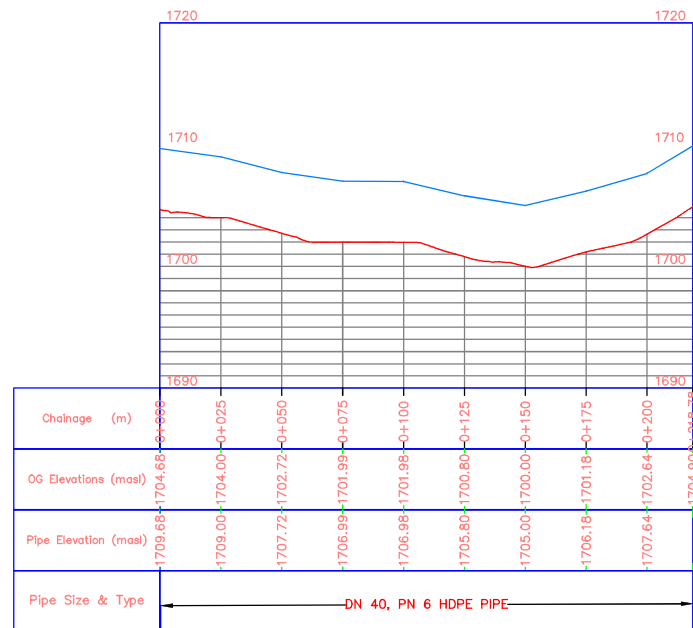
DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	2 of 2
Drawing No:	SHOFKO/KBR/003-3

D:\PC Documents\Kibera Project\Drawings\ALL\VFg - Lindi K4 - Lindi K1 - 100 - 100.dwg c:\sheet - 100 Mon 20 Jun 2022 - 11:55am User



Lindi K4 - Lindi K1 PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



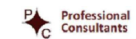
SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT

ENGINEER:



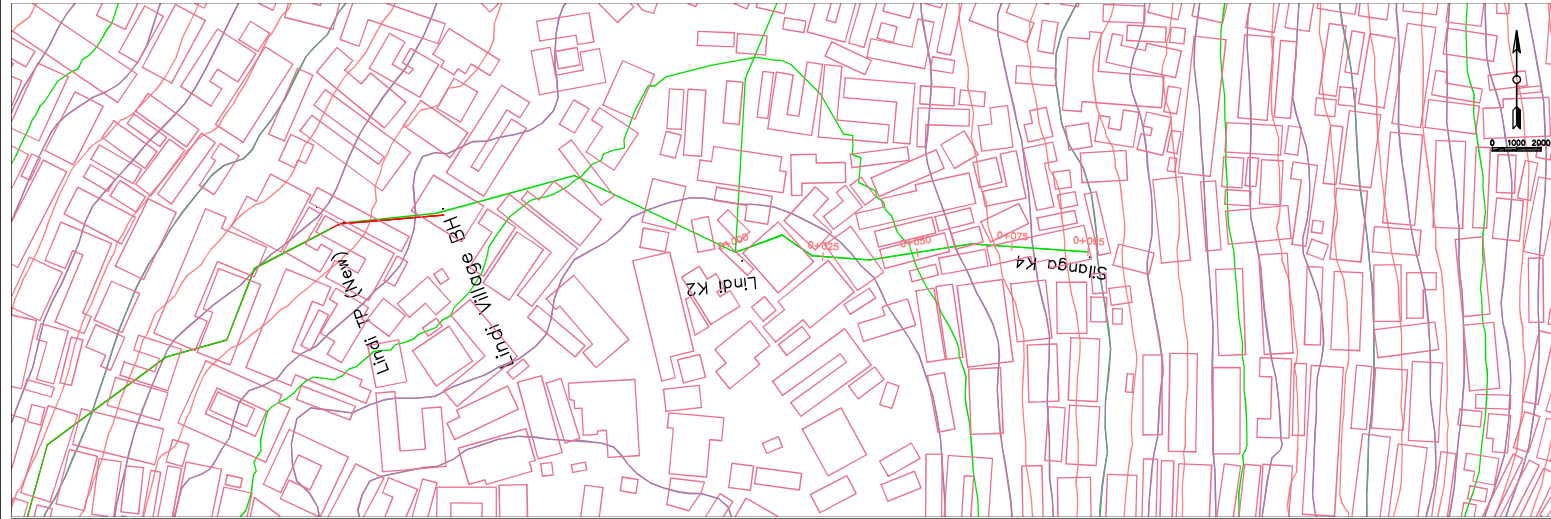
DRAWING TITLE:

LINDI K4 - LINDI K1

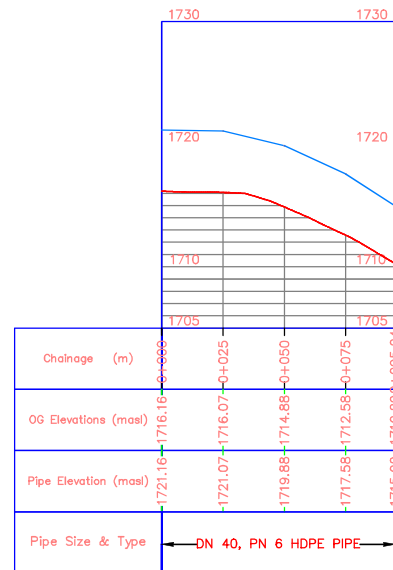
DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/003-4

D:\PC Documents\Kibera Project\Drawings\ALL\VFIC - Lindi K2 - Silanga K4 - (66).dwg - (66).dwg - Sheet - (66). Tue, 21 Jun 2022 - 10:18am User



Lindi K2 - Silanga K4 PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT

ENGINEER:



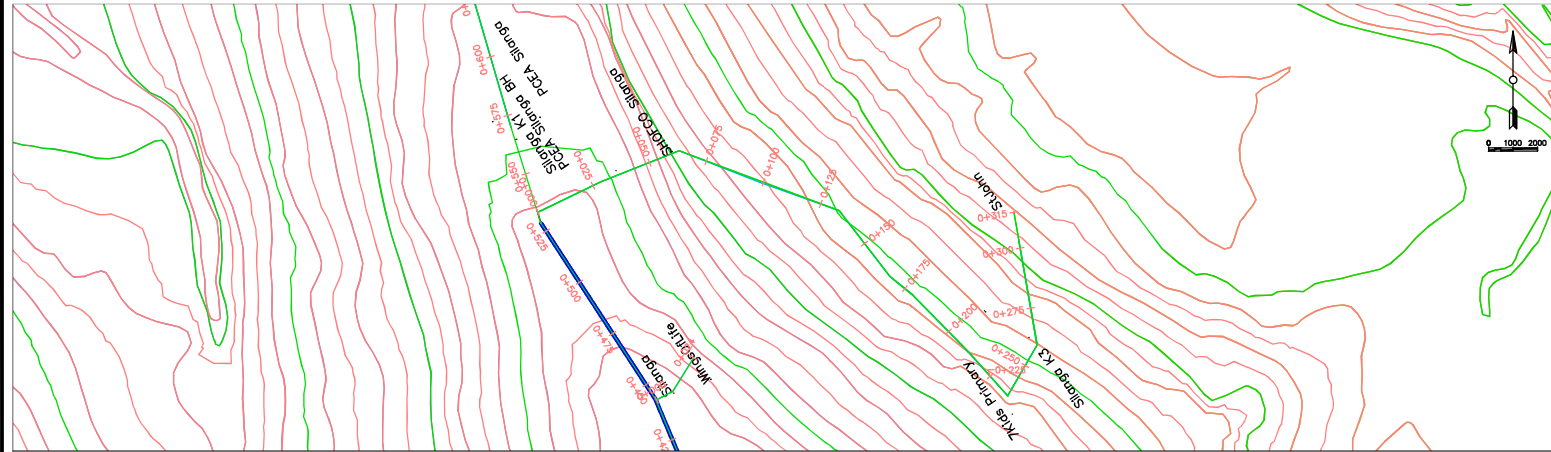
DRAWING TITLE:

LINDI K2 - SILANGA K4

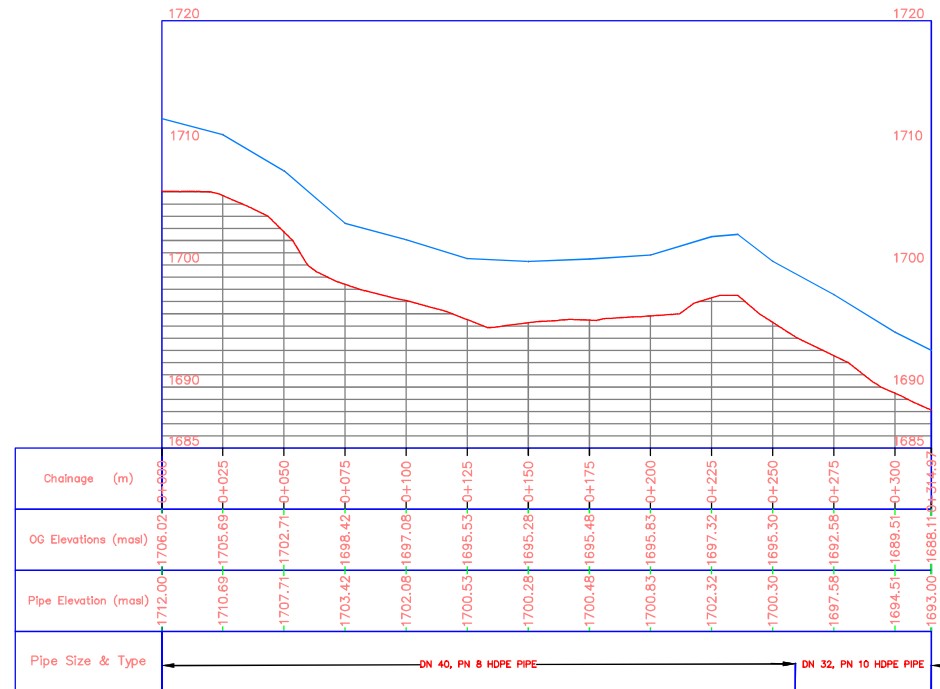
DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/003-5

D:\PC Documents\Kibera Project\Drawings\VF - Branch to St John - 61 - 457.dwg - Sheet - 617 - Wed, 20 Jul 2022 - 11:22am User



Branch to St John PROFILE



N.T.S.

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



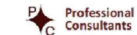
SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT

ENGINEER:



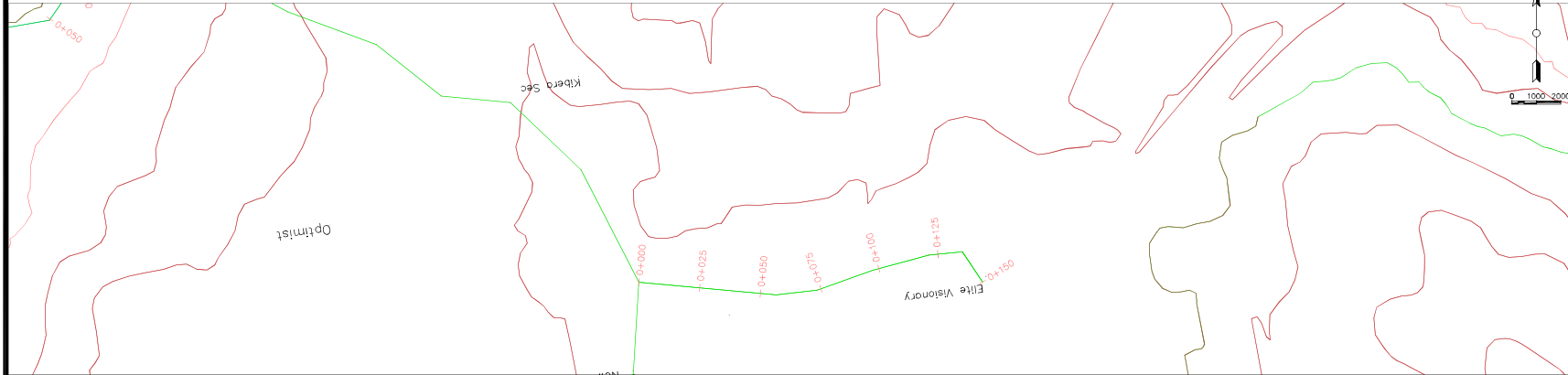
DRAWING TITLE:

BRANCH TO ST. JOHN

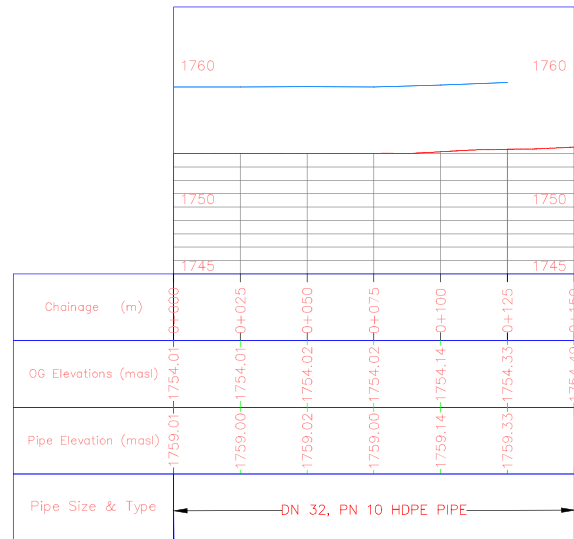
DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/003-6

MAKINA NETWORK



Branch to Elite Visionary PROFILE



NOTES:

1. All dimensions are in millimeters unless specified otherwise,
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer,
3. All levels are in meters above sea level.

CLIENT



PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT**

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:

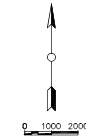
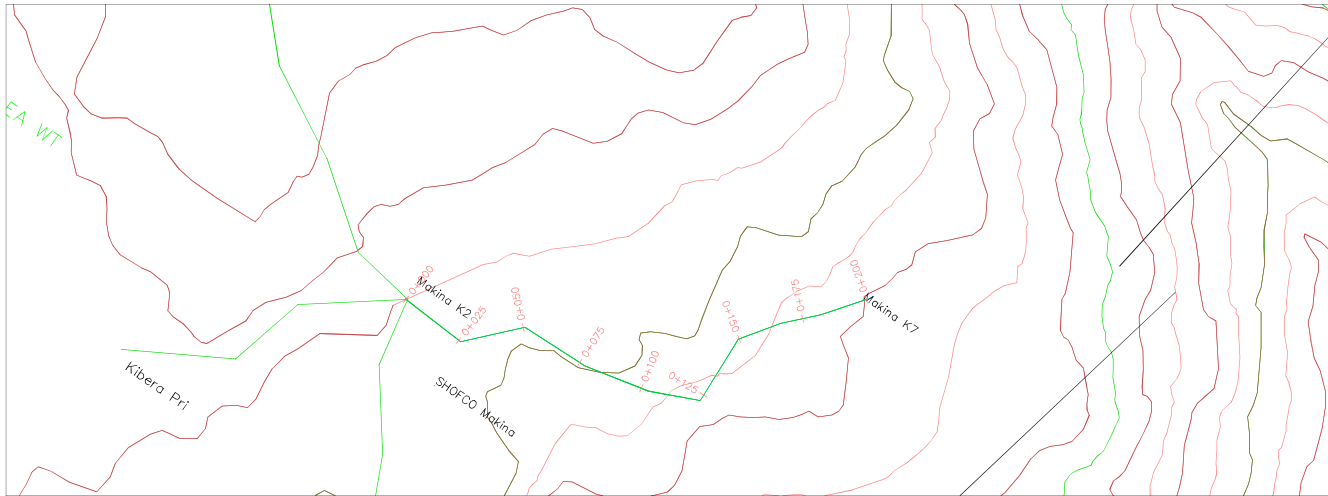


DRAWING TITLE:

BRANCH TO ELITE VISIONARY

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFKO/KBR/004-1



NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT
WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:



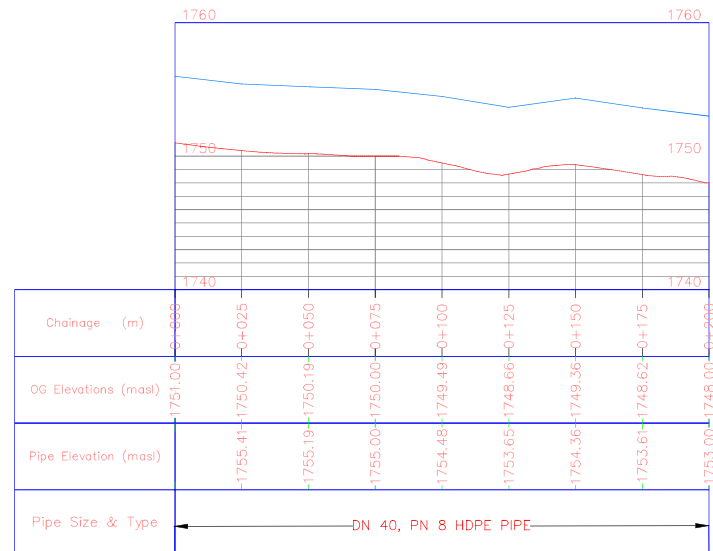
DRAWING TITLE:

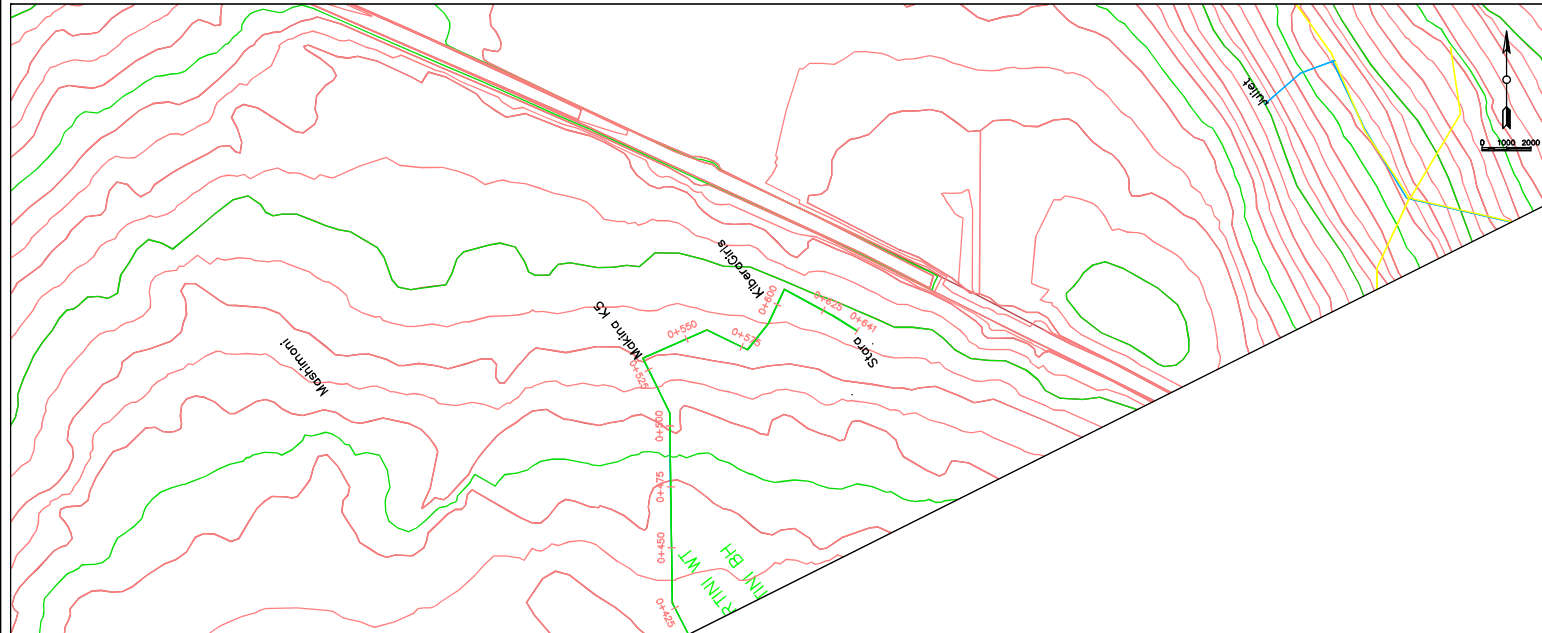
MAKINA K2 - MAKINA K7

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/004-2

Makina K2 – Makina K7 PROFILE





Makina Tank – Stara (2) PROFILE

The profile view shows the proposed sewer line with the following data:

Chainage (m)	OG Elevations (masl)	Pipe Elevation (masl)	Pipe Size & Type
1742.5	1752.56	1752.56	DN 40, PN 8 HDPE PIPE
1745.0	1751.47	1751.47	
1747.5	1746.46	1746.46	DN 32, PN 10 HDPE PIPE
1750.0	1751.02	1751.02	
1752.5	1748.98	1748.98	DN 32, PN 10 HDPE PIPE
1755.0	1747.34	1747.34	
1757.5	1746.67	1746.67	DN 32, PN 10 HDPE PIPE
1760.0	1746.62	1746.62	
1762.5	1745.58	1745.58	DN 32, PN 10 HDPE PIPE
1765.0	1745.37	1745.37	

N.T.S

NOTES:

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT IN KIBRA INFORMAL SETTLEMENT

ENGINEER:



DRAWING TITLE:

MAKINA TANK - STARA

DRAWING DETAILS:

Designed by:

Drawn by:

M.K

	M.K.
--	------

Revised by:

Approved by:	
--------------	--

--	--

	Enq. J. L.
--	------------

Scale:

Date:

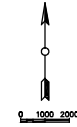
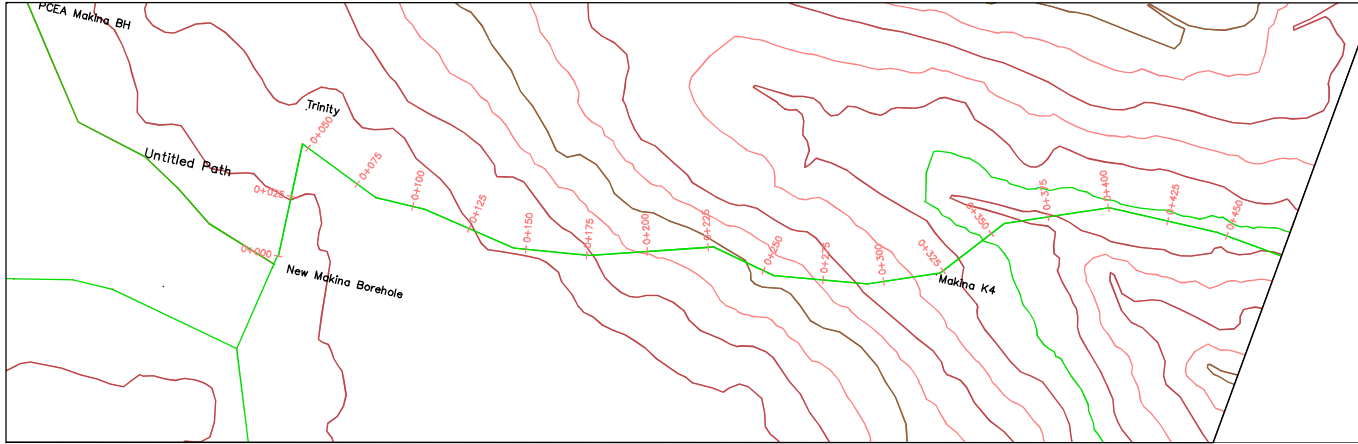
As Shown

DATE:	JUNE 20
-------	---------

Sheet No:

of 2

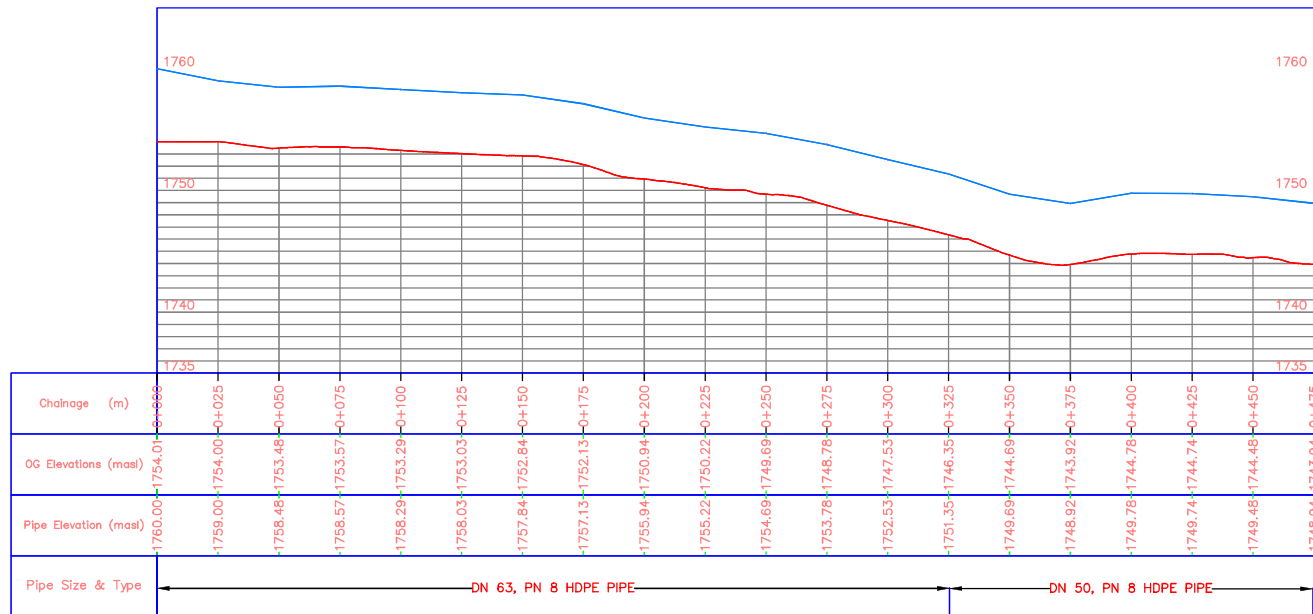
D:\PC Documents\Kibera Project\Drawings\KIBRA - Makina Tank - Calvary - (123) - (123).dwg, <Sheet - (123)> Tue 23 Jun 2022 - 12:27pm User



NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

Makina Tank – Calvary PROFILE



N.T.S

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT

ENGINEER:

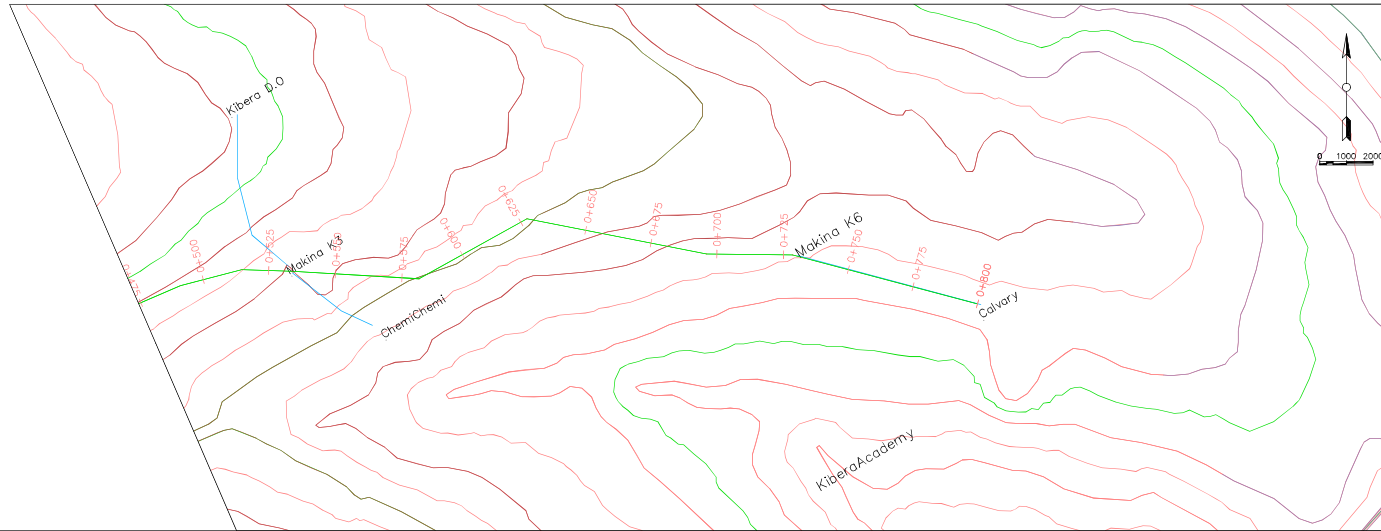


DRAWING TITLE:

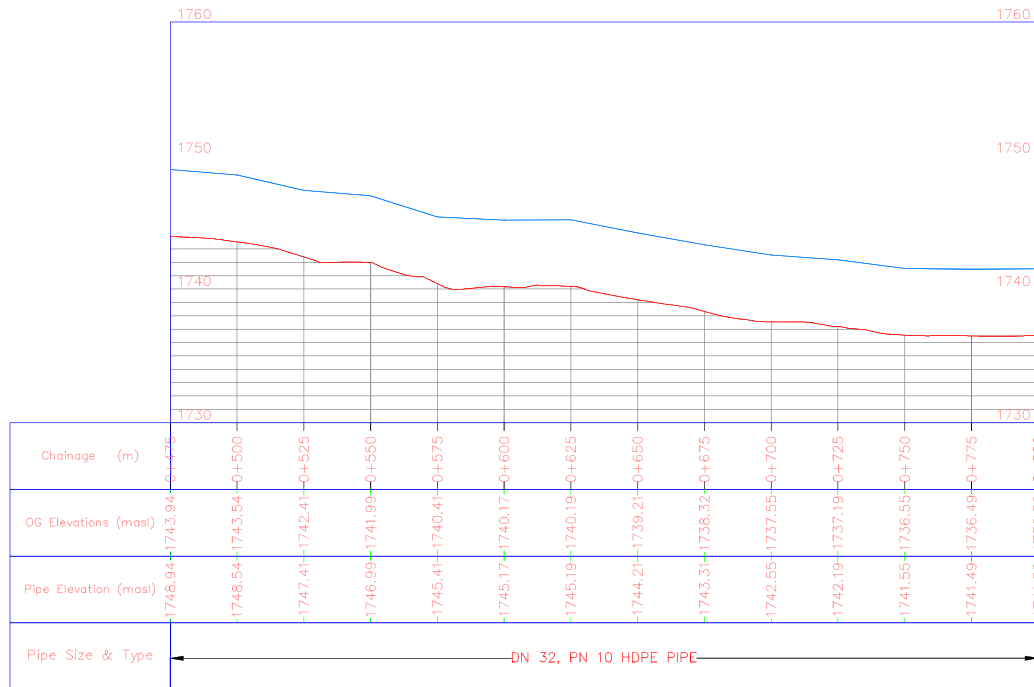
MAKINA TANK - CALVARY

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 2
Drawing No:	SHOFCO/KBR/004-4



Makina Tank – Calvary PROFILE



NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT

ENGINEER:



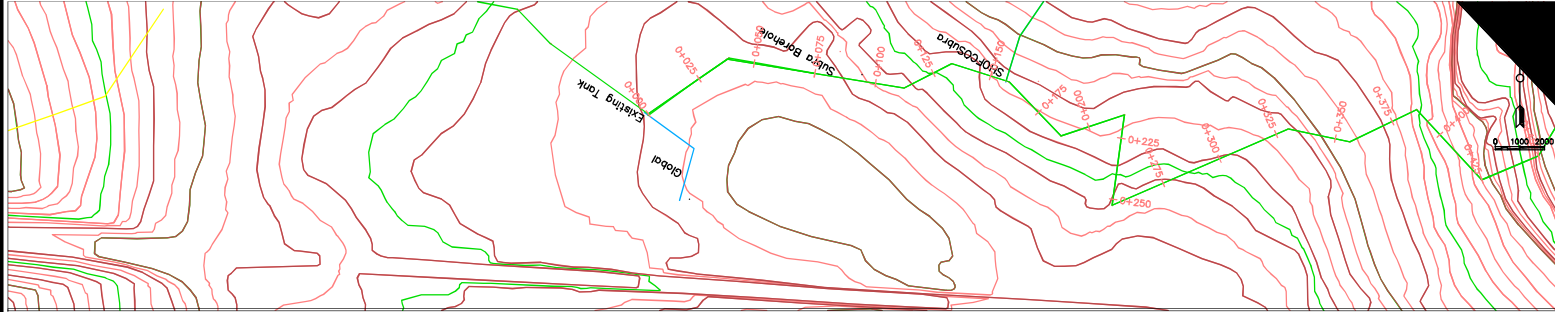
DRAWING TITLE:

MAKINA TANK - CALVARY

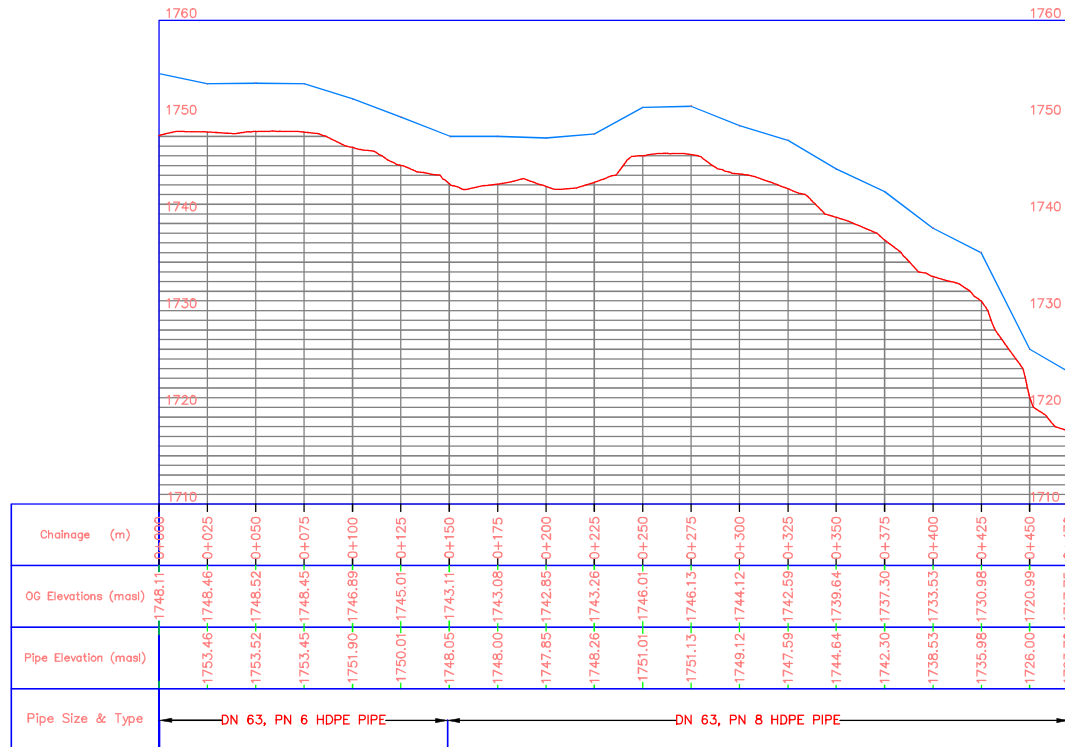
DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	2 of 2
Drawing No:	SHOFCO/KBR/004-4

SUBRA NETWORK



Subra Tank – Subra K2 PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT
WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:

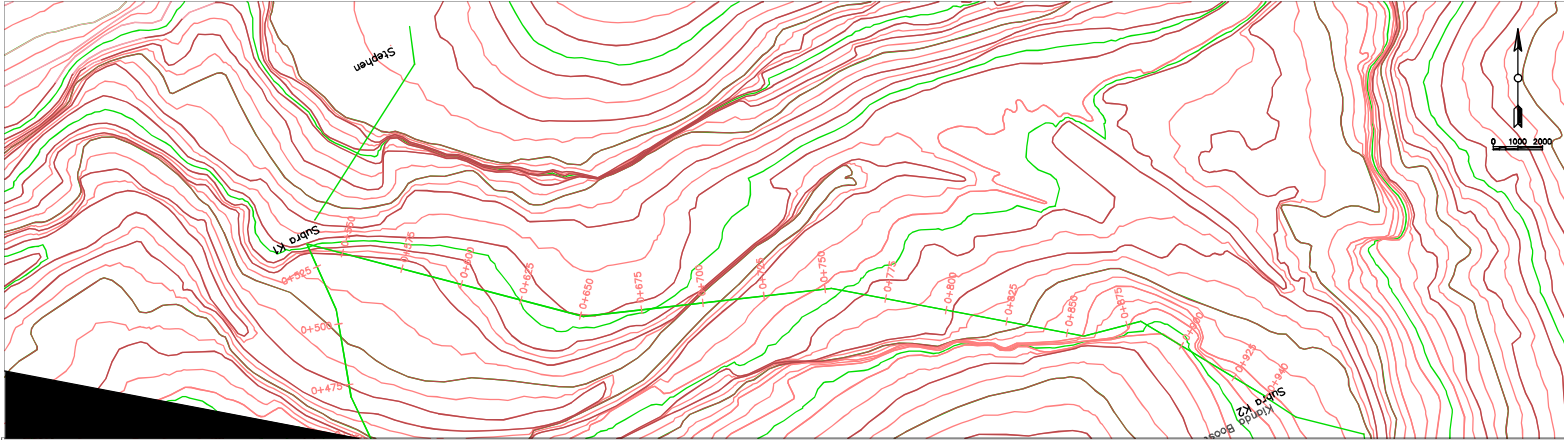


DRAWING TITLE:

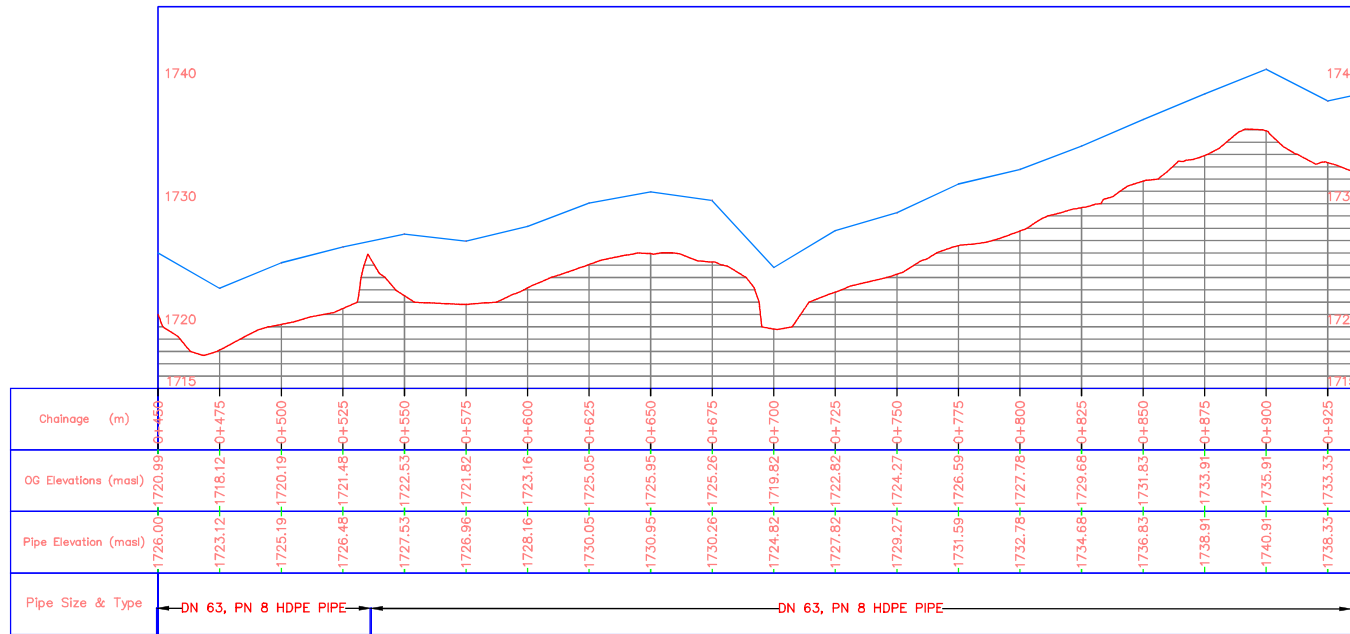
SUBRA TANK - SUBRA K2

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 2
Drawing No:	SHOFCO/KBR/005-1



Subra Tank – Subra K2 PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



SHINING HOPE FOR COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT IN KIBERA INFORMAL SETTLEMENT

ENGINEER:



Professional Consultants

DRAWING TITLE:

SUBRA TANK - SUBRA K2

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	2 of 2
Drawing No:	SHOFCO/KBR/005-1

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.



CLIENT



SHINING HOPE FOR COMMUNITIES
(SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT**

ENGINEER:

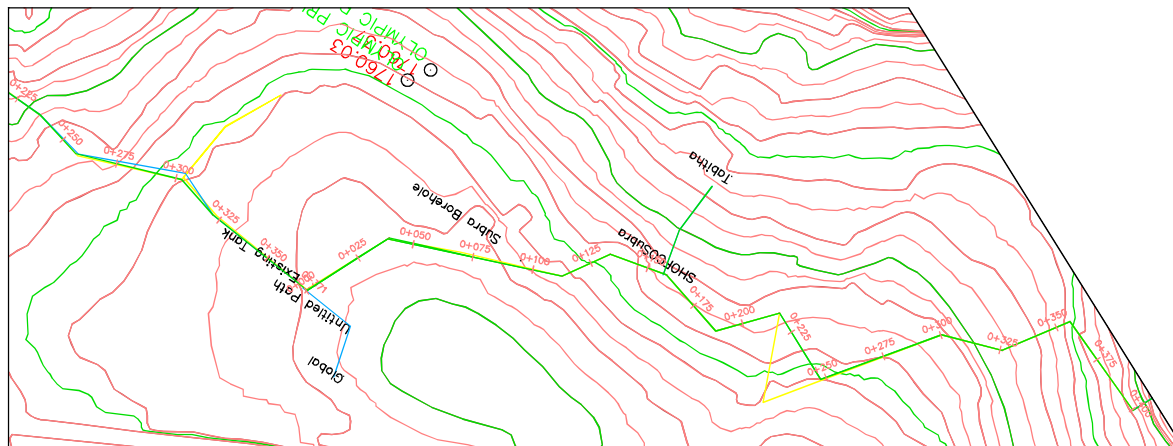


DRAWING TITLE:

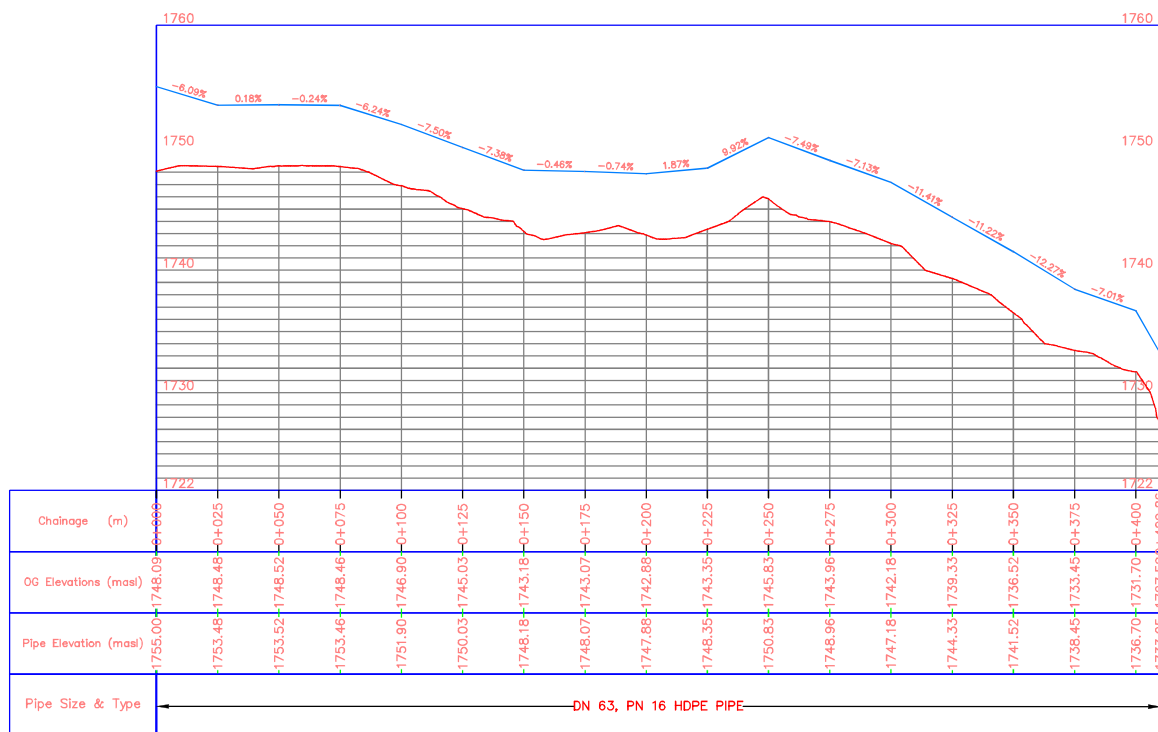
**SUBRA TANK - KIANDA
TANK RISING MAIN**

DRAWING DETAILS:

Designed by:	Drawn
MJK	By: MJK
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 4
Drawing No:	SHOFCO/KBR/005-2



Subra Tank – Kianda Tank PROFILE



NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



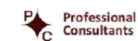
SHINING HOPE FOR COMMUNITIES
(SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT

ENGINEER:



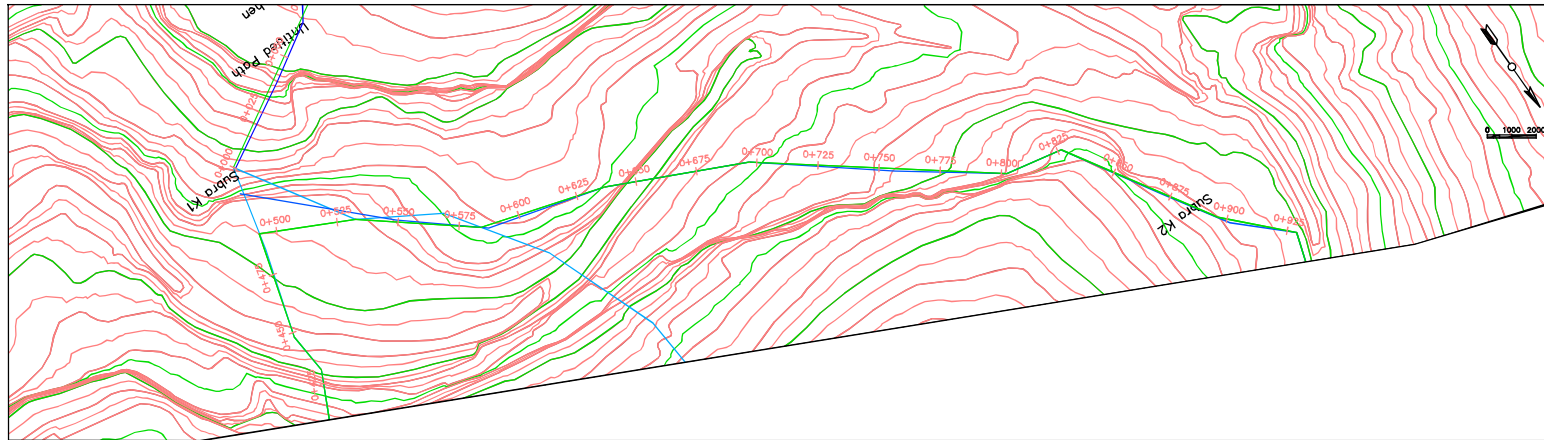
DRAWING TITLE:

**SUBRA TANK - KIANDA
TANK RISING MAIN**

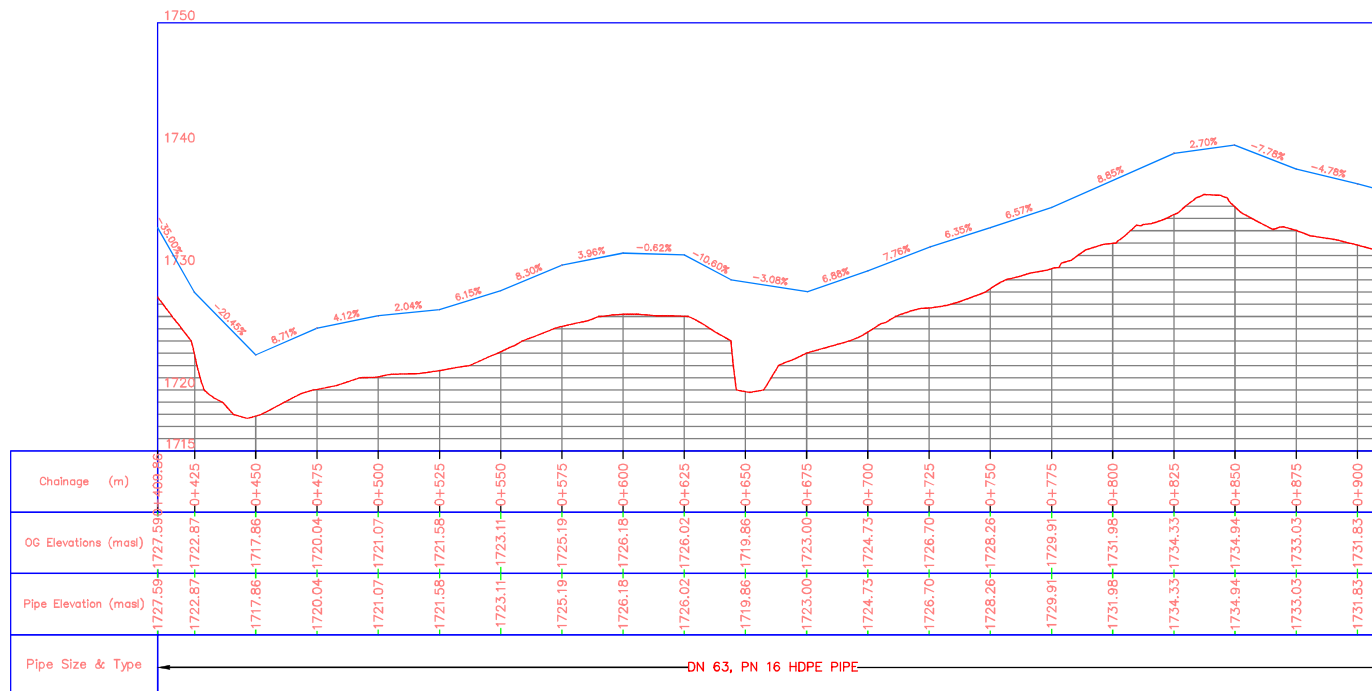
DRAWING DETAILS:

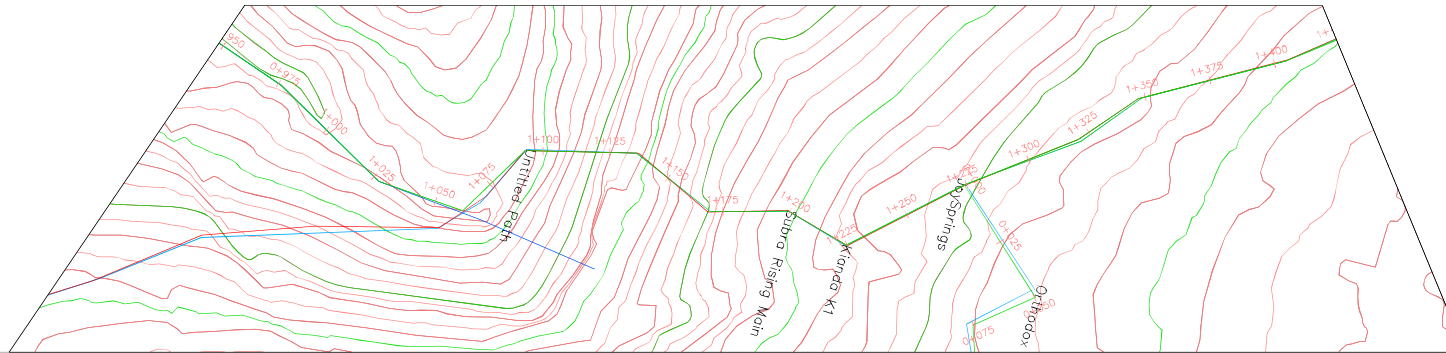
Designed by:	Drawn
M.K.	by: M.K.
Revised by:	Approved by:
	Eng. J.
Scale:	Date: Lovelady
As Shown	JUNE 2022
Sheet No:	2 of 4
Drawing No:	SHOFCO/KBR/005-2

N.T.S

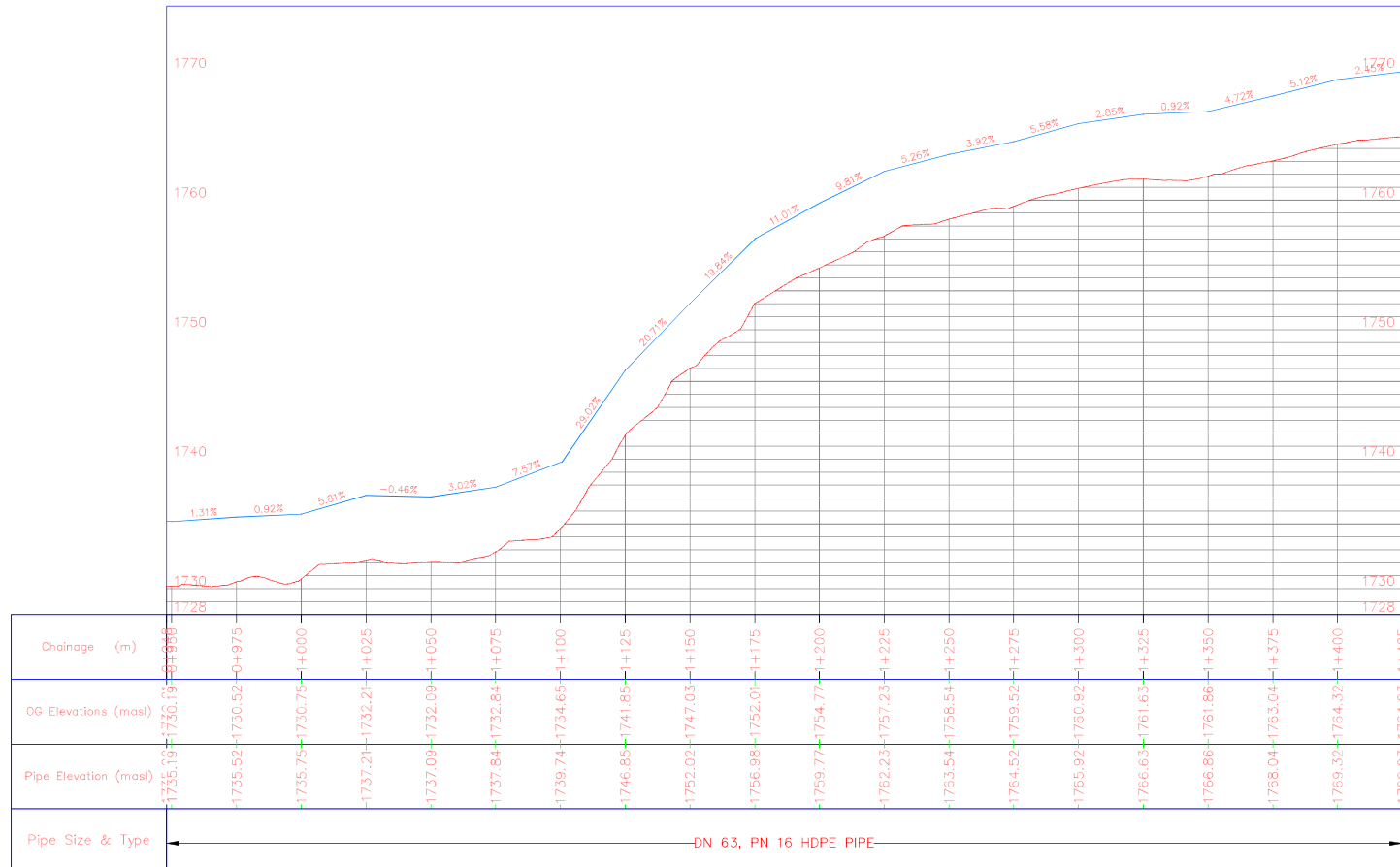


Subra Tank - Kianda Tank PROFILE





Subra Tank – Kianda Tank PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



SHINING HOPE FOR COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING SAFE WATER (KIDS) PROJECT
WATER SUPPLY PROJECT IN KIBERA INFORMAL SETTLEMENT

ENGINEER:

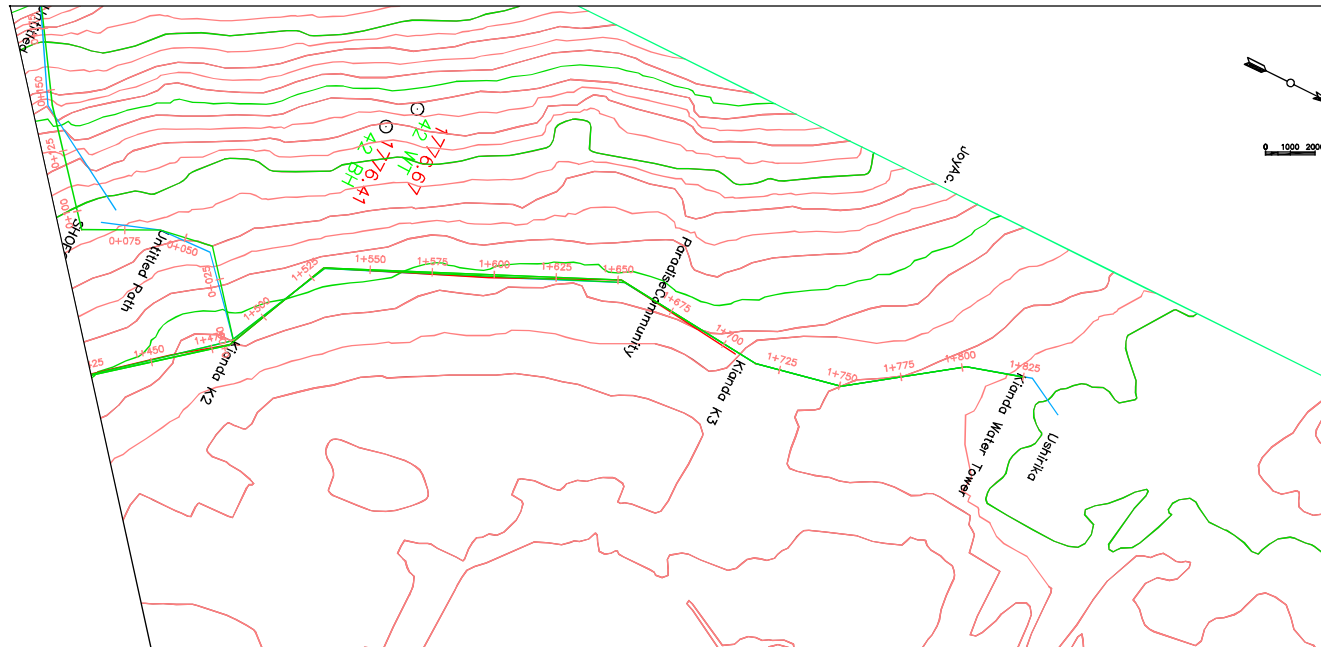


DRAWING TITLE:

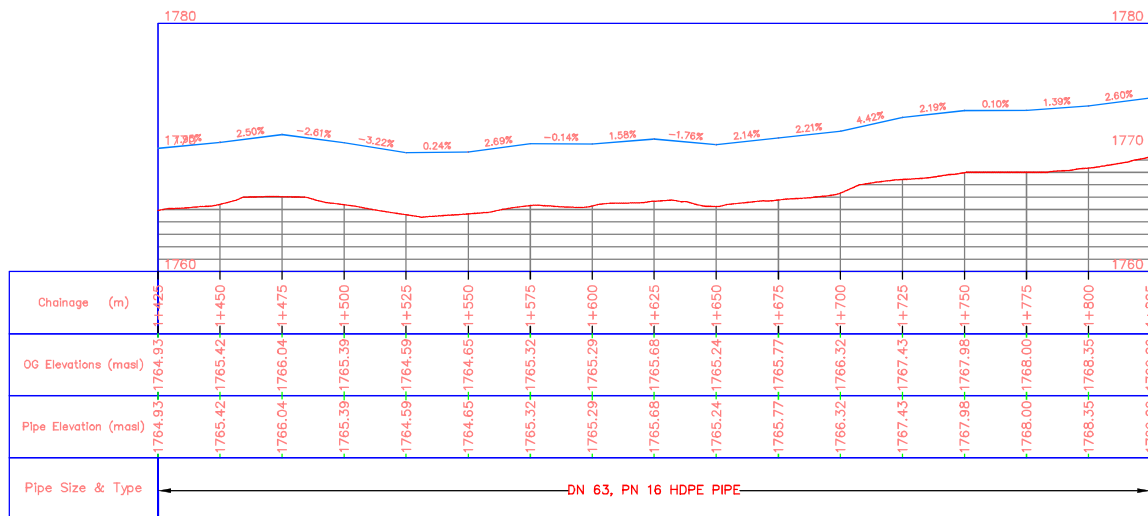
SUBRA TANK - KIANDA TANK RISING MAIN

DRAWING DETAILS:

Designed by:	Drawn
M.K.	by: M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	3 of 4
Drawing No:	SHOFCO/KBR/005-2



Subra Tank – Kianda Tank PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



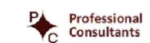
SHINING HOPE FOR COMMUNITIES
(SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:



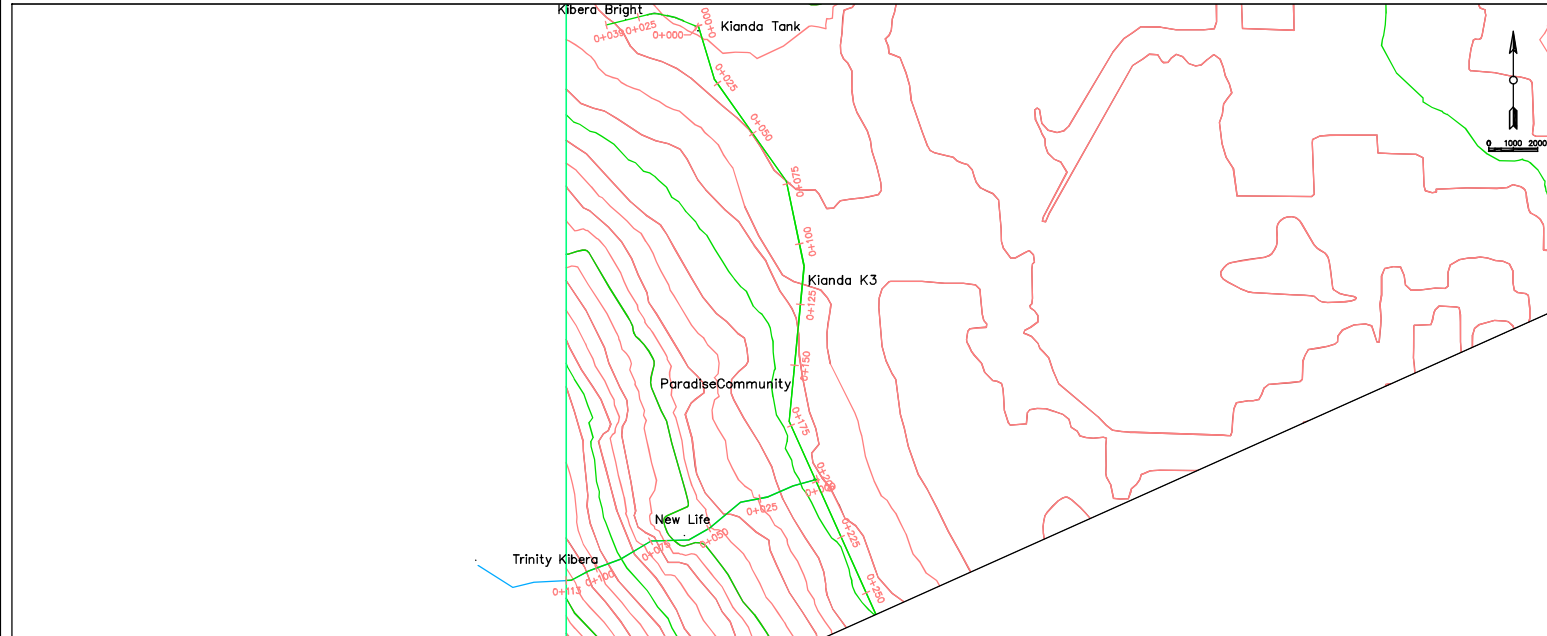
DRAWING TITLE:

**SUBRA TANK - KIANDA
TANK RISING MAIN**

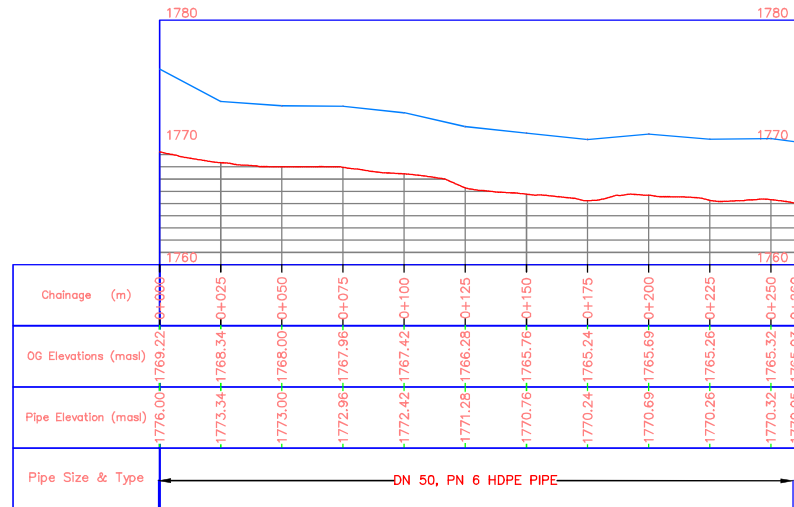
DRAWING DETAILS:

Designed by:	Drawn
M.K	by: M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	4 of 4
Drawing No:	SHOFCO/KBR/005-2

D:\PC Documents\Kibera Project\Drawings\KFC - Kianda Tank - Kianda K1 - (3).dwg, 20 Jul 2022 11:15:08m, User



Kianda Tank — Kianda K1 PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT

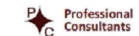


SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT
**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:



DRAWING TITLE:

KIANDA TANK - KIANDA K1

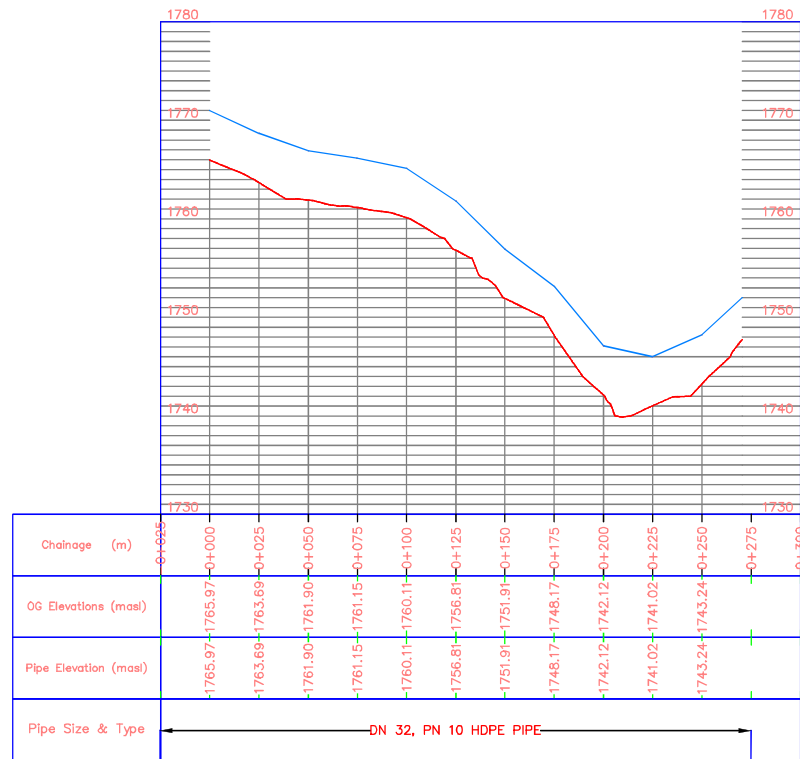
DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 2
Drawing No:	SHOFCO/KBR/005-3

D:\PC Documents\Kibera Project\Drawings\ALL\VG - Branch to Red rose - (03).dwg - Sheet - (03) - Mon, 20 Jun 2022 - 02:46pm User



Branch to Red rose PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT

ENGINEER:



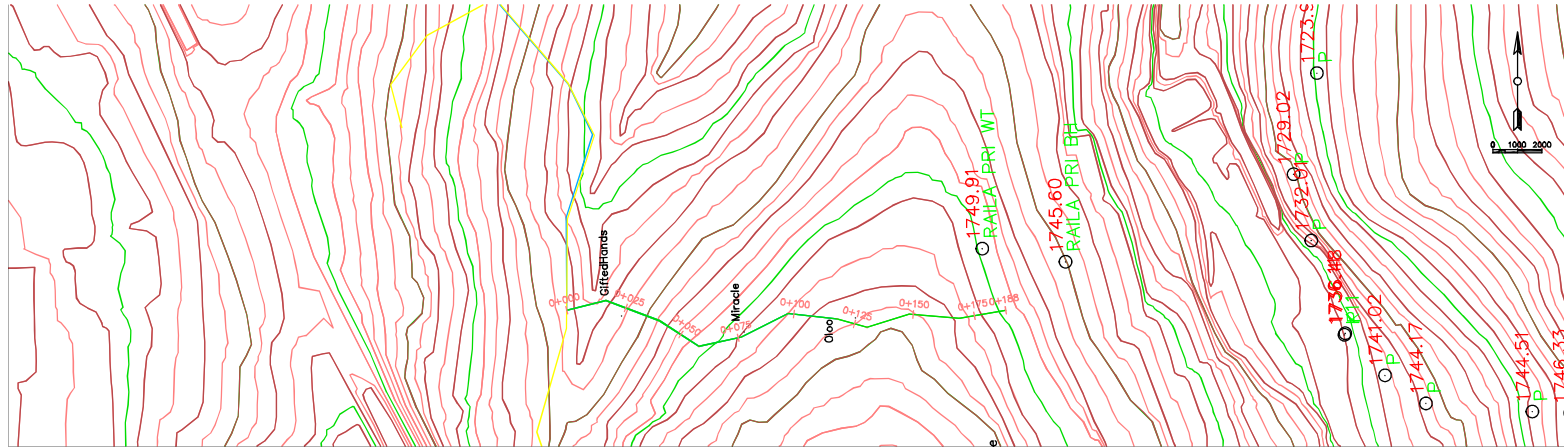
P
C
Professional
Consultants

DRAWING TITLE:

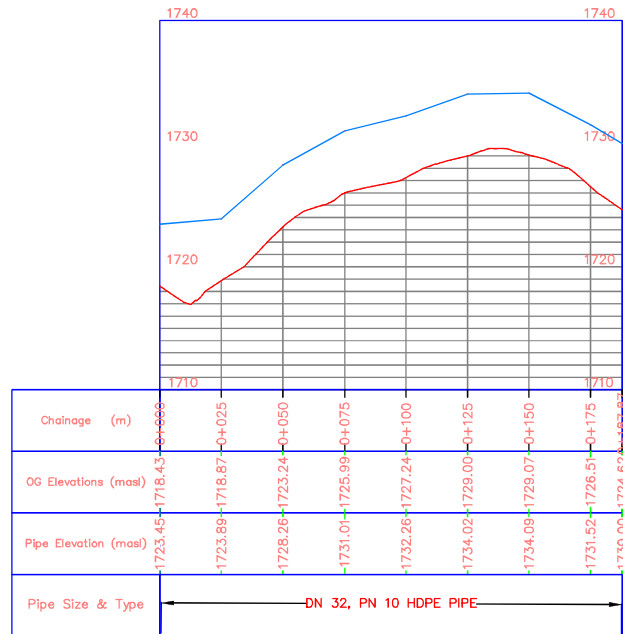
BRANCH TO REDROSE

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/005-4



Branch to Oloo PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



SHINING HOPE FOR COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT IN KIBRA INFORMAL SETTLEMENT

ENGINEER:



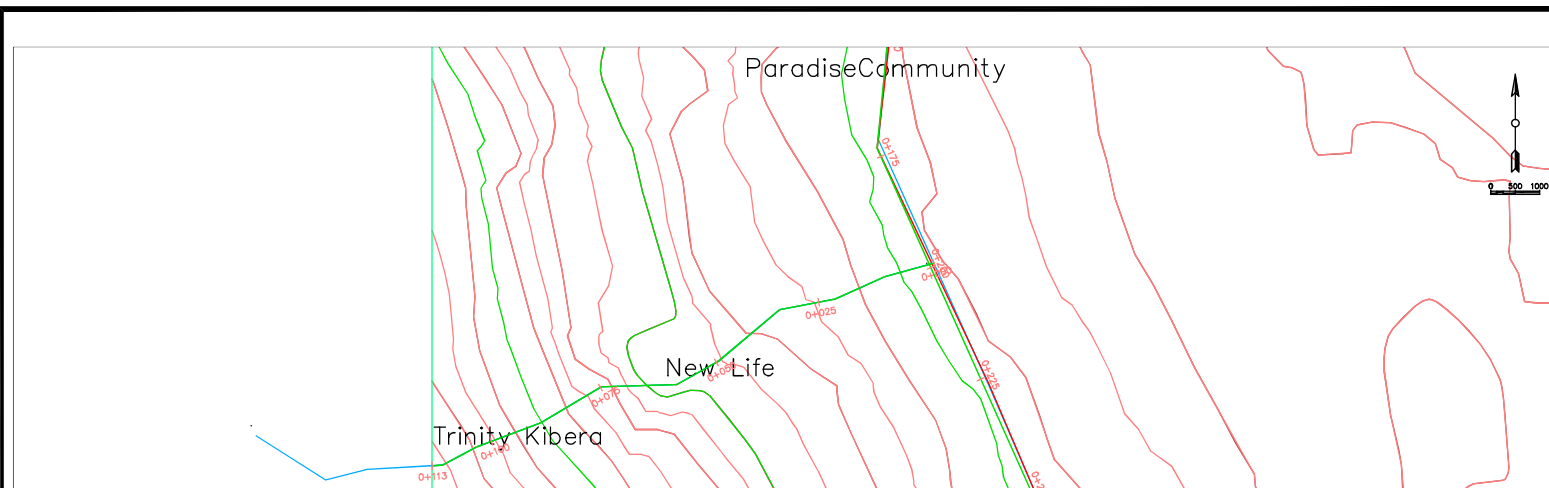
DRAWING TITLE:

BRANCH TO OLOO

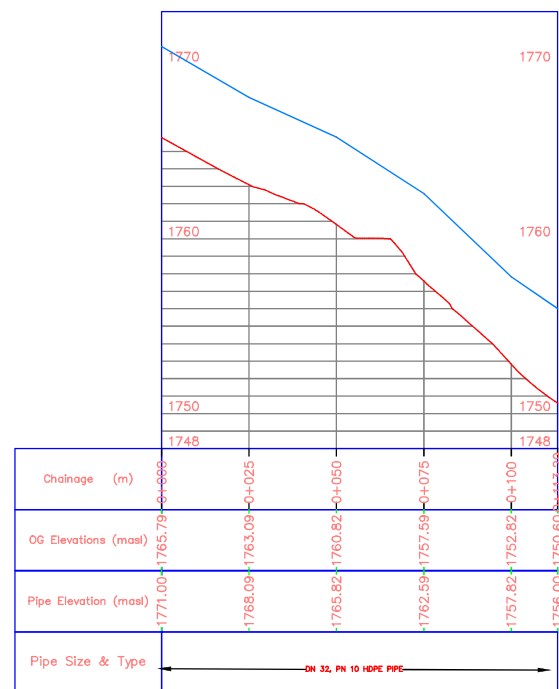
DRAWING DETAILS:

Designed by:	M.K.	Drawn by:	M.K.
Revised by:		Approved by:	Eng. J. Loveday
Scale:	As Shown	Date:	JUNE 2022
Sheet No:	1 of 1		
Drawing No:	SHOFCO/KBR/005-5		

D:\PC Documents\Kibera Project\Drawings\FC - Branch to Trinity Kibera - (13) - (13).dwg - Sheet - (23) > Wed 20 Jul 2023 - 01:53pm User



Branch to Trinity Kibera PROFILE



N.T.S

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. All levels are in meters above sea level.

CLIENT



Shining Hope for Communities

SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT

ENGINEER:



Professional
Consultants

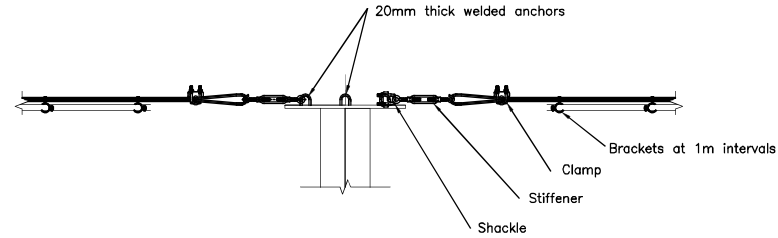
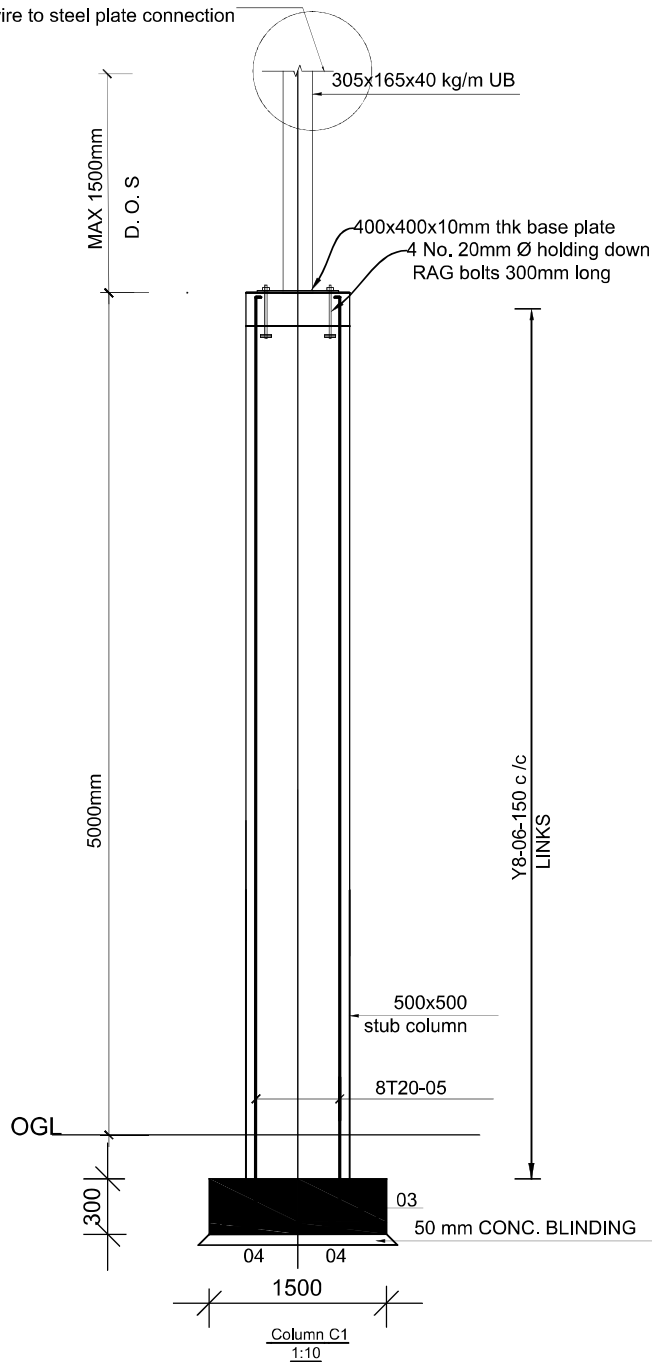
DRAWING TITLE:

BRANCH TO TRINITY KIBERA

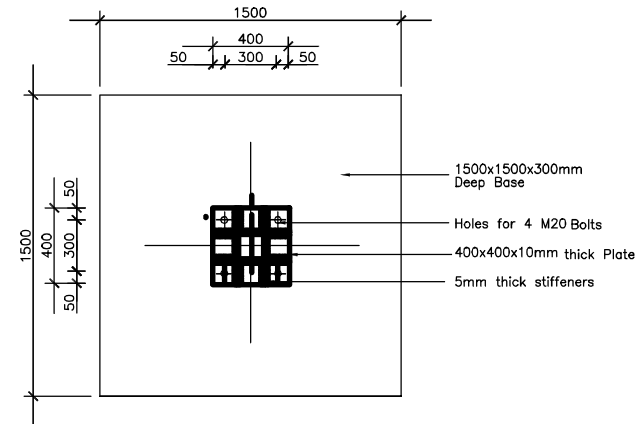
DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/005-6

Guy wire to steel plate connection



GUY WIRE-STEEL PLATE CONNECTION DETAIL



BASE PLATE DETAIL

Scale 1 : 20

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:



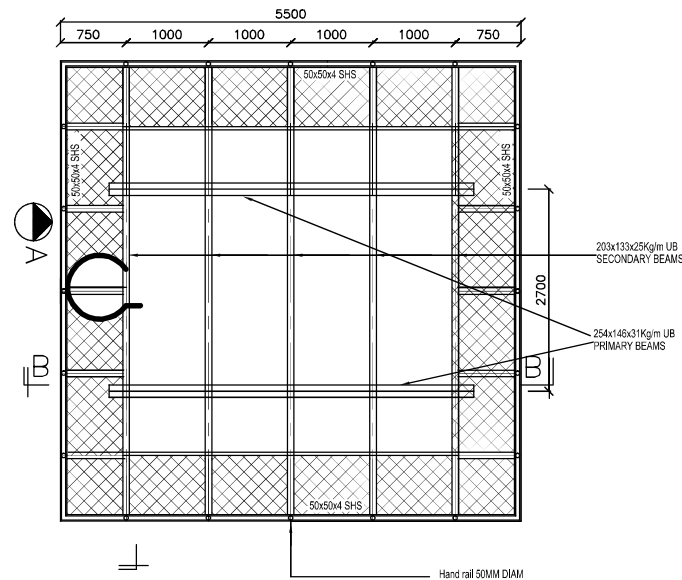
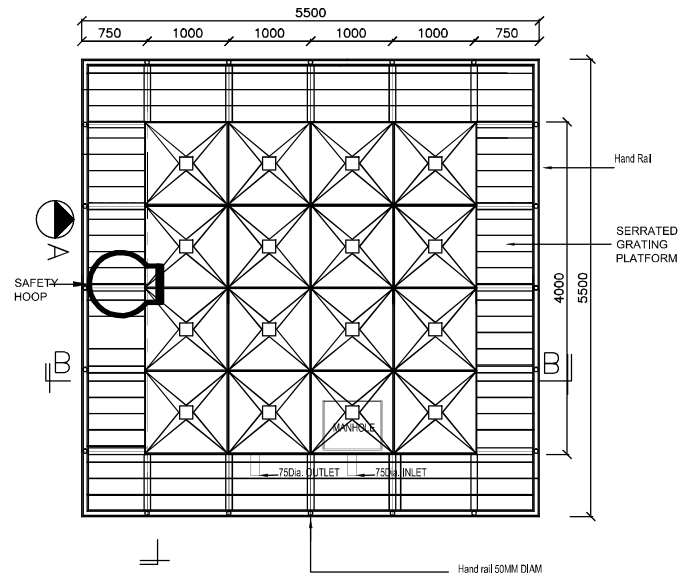
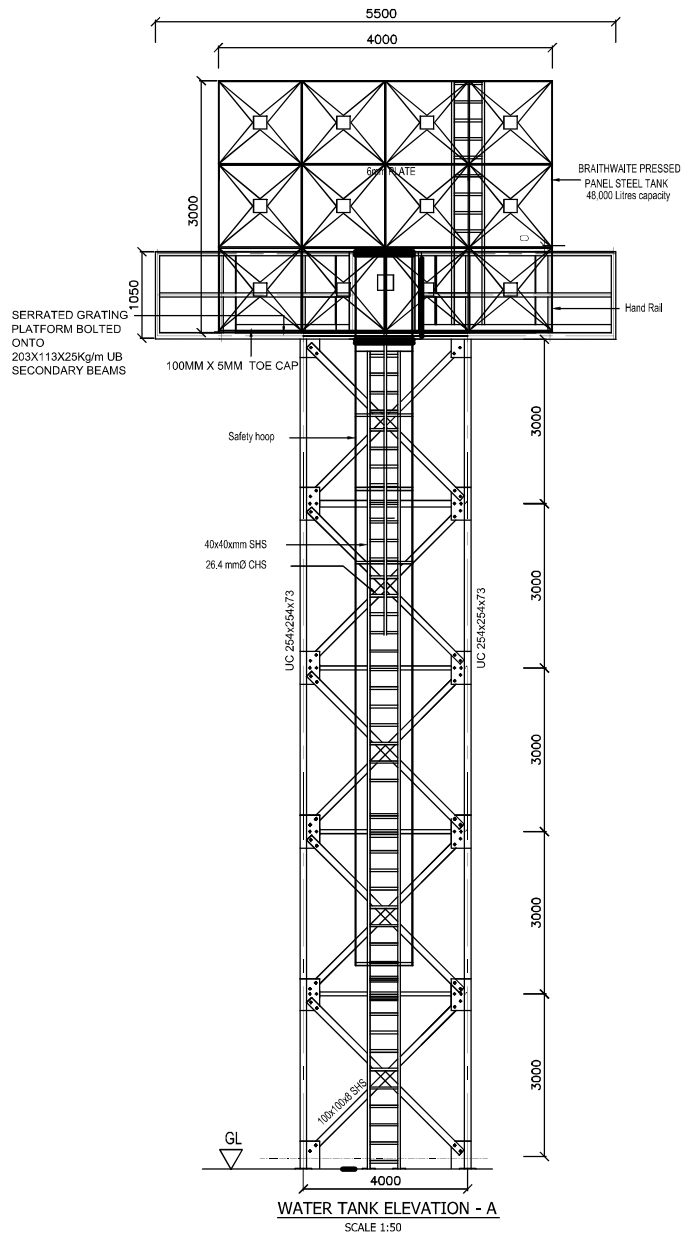
DRAWING TITLE:

SUPPORT COLUMNS

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	1 of 1
Drawing No:	SHOFCO/KBR/006

ELEVATED WATER TANKS



NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All structural steelwork to be Grade 43C.
6. Form-work to be fair-finished.
7. Tower steelwork to be brushed prior to paint application.
8. Apply one coat of grey oxide primer.
9. Apply two coat of blue aluminium paint or as instructed.
10. All shop welds to be 6mm fillet welds U.O.N
11. Bolts are high tensile Grade 8.8 and galvanized.
12. Include external level indicator.
13. All panels should be galvanised coated.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT

ENGINEER:



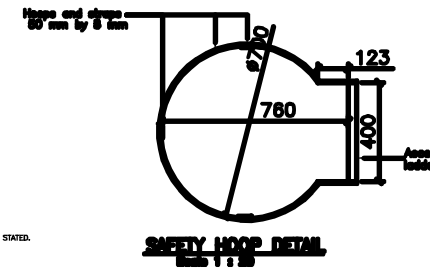
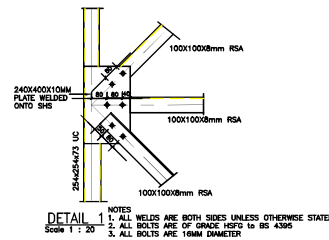
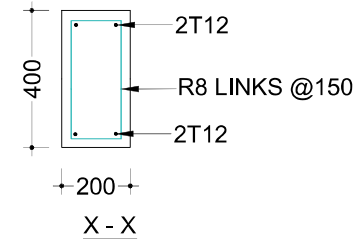
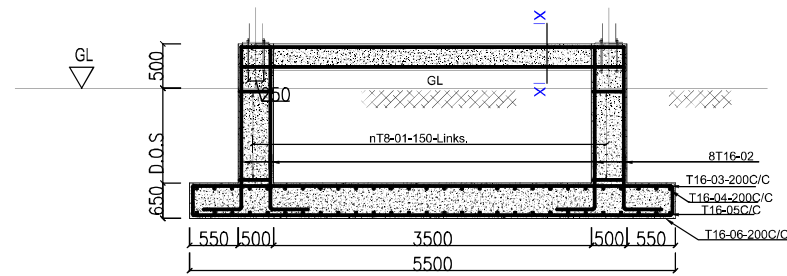
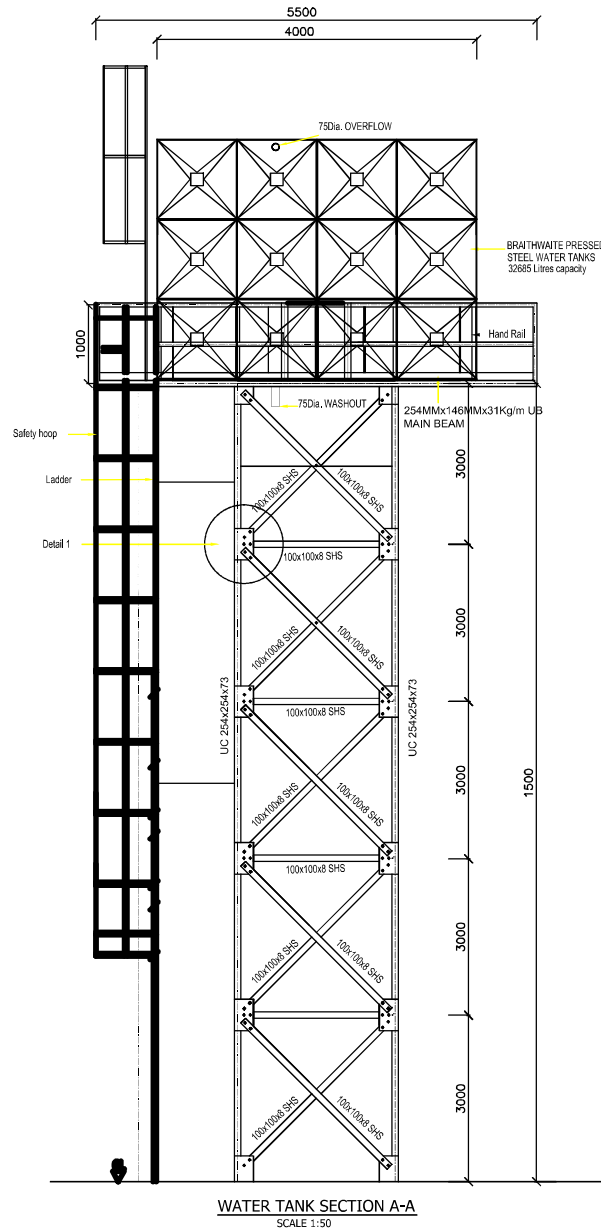
DRAWING TITLE:

ELEVATED 48m³ STEEL
TANK - MAKINA & LINDI

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	1 of 2
Drawing No:	SHOFCO/KBR/007-1

N.T.S



NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All structural steelwork to be Grade 43C.
6. Form-work to be fair-finished.
7. Tower steelwork to be brushed prior to paint application.
8. Apply one coat of grey oxide primer.
9. Apply two coat of blue aluminium paint or as instructed.
10. All shop welds to be 6mm fillet welds U.O.N.
11. Bolts are high tensile Grade 8.8 and galvanized.
12. Include external level indicator.
13. All panels should be galvanised coated.

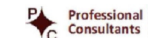
CLIENT



PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT**
**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:



DRAWING TITLE:

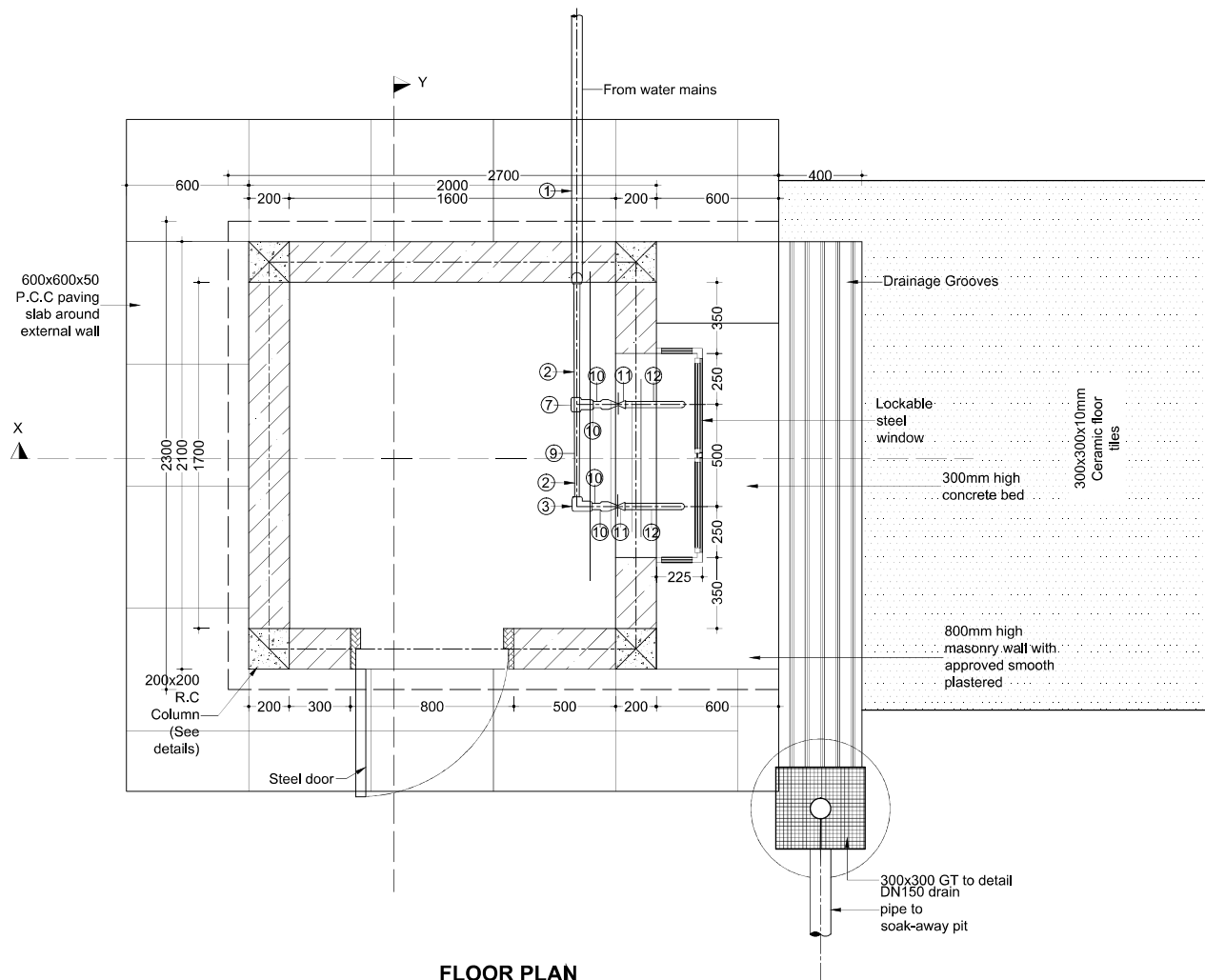
**ELEVATED 48m³ STEEL
TANK - MAKINA & LINDI**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	JUNE 2022
Sheet No:	2 of 2
Drawing No:	SHOFCO/KBR/007-1

N.T.S

WATER KIOSK



FLOOR PLAN
SCALE 1:25 (A3)

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:

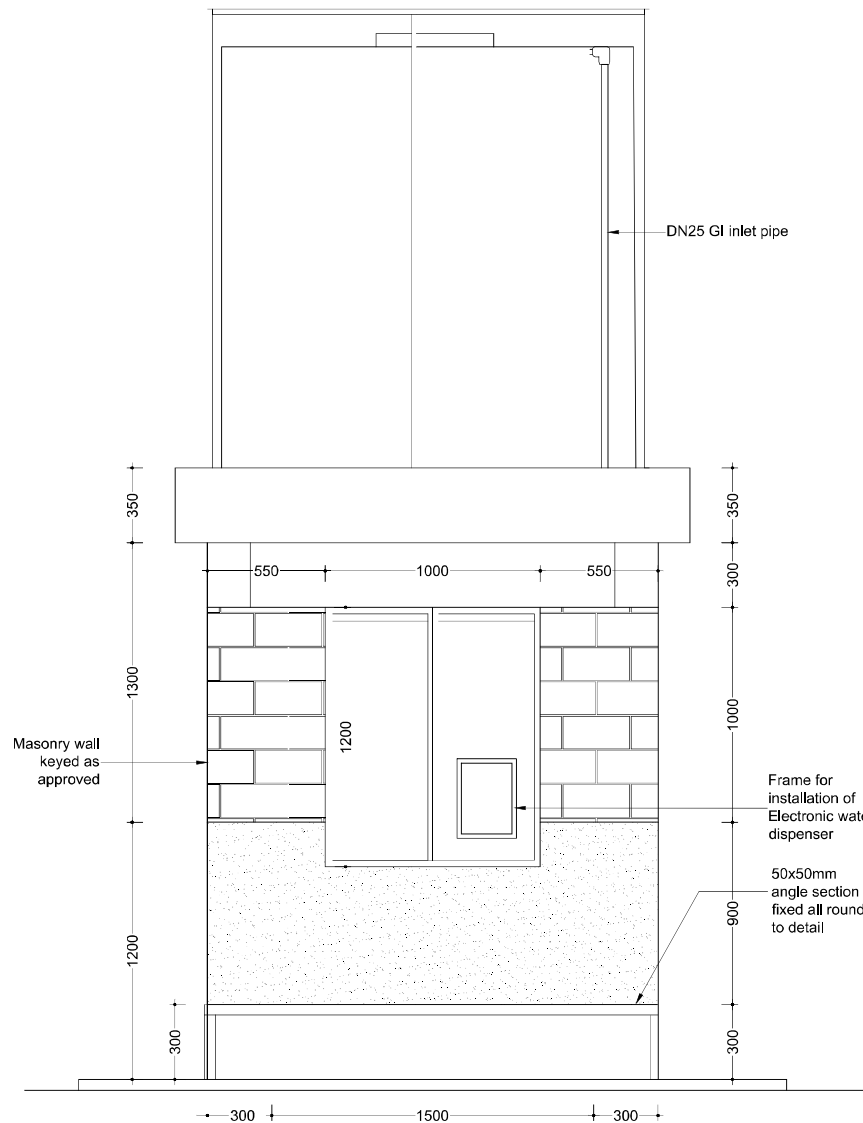


DRAWING TITLE:

**STANDARD WATER KIOSK
(ARCHITECTURAL PLAN)**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	1 of 16
Drawing No:	SHOFCO/KBR/008



FRONT ELEVATION
Scale 1:25 (A3)

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT

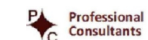


PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT**

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:

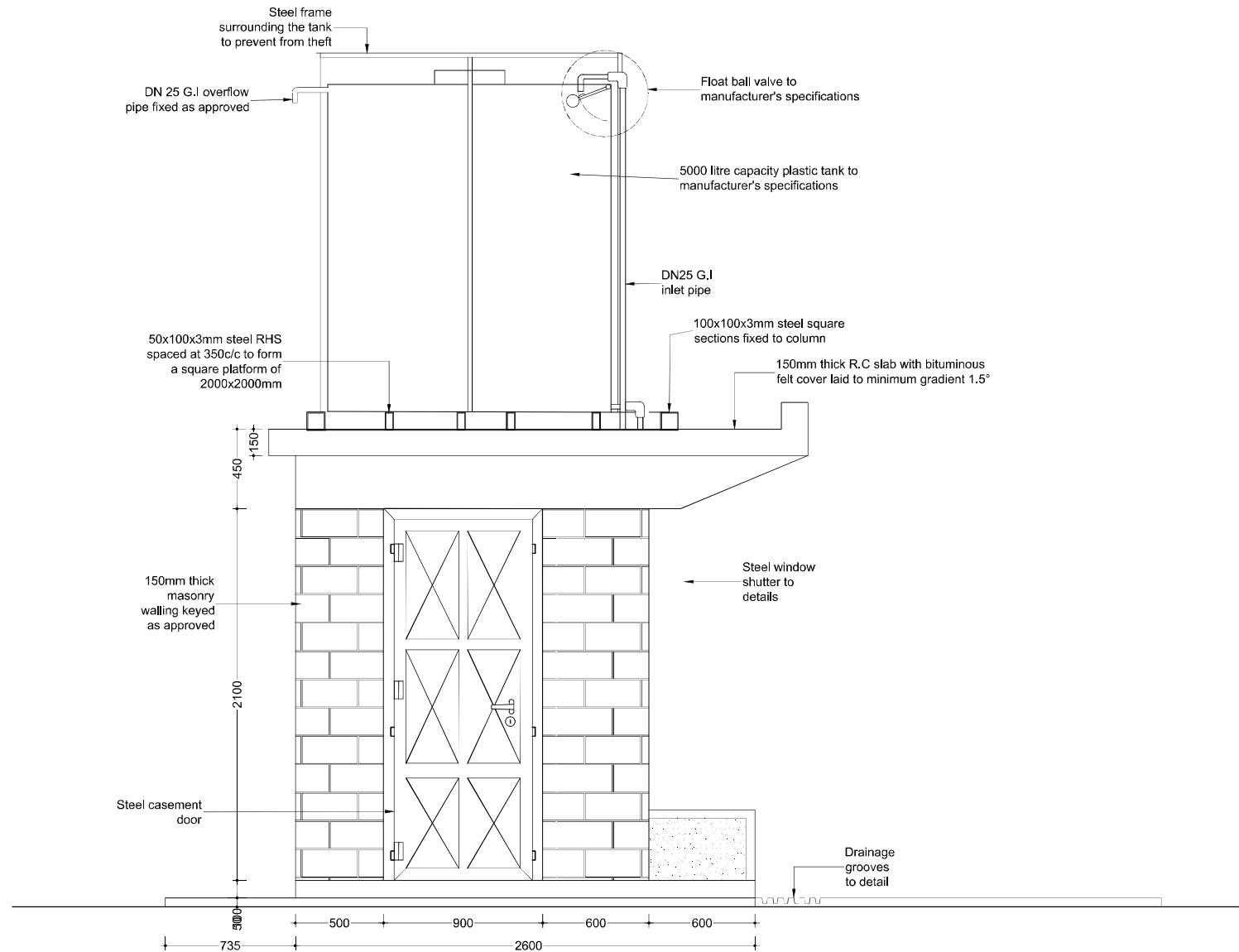


DRAWING TITLE:

**STANDARD WATER
KIOSK TYPE 1
(FRONT ELEVATION)**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	2 of 16
Drawing No:	SHOFCO/KBR/008



SIDE ELEVATION
Scale 1:25 (A3)

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT

ENGINEER:

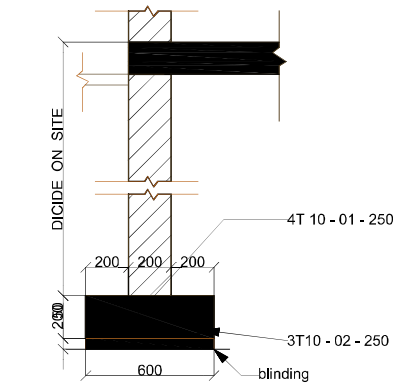


DRAWING TITLE:

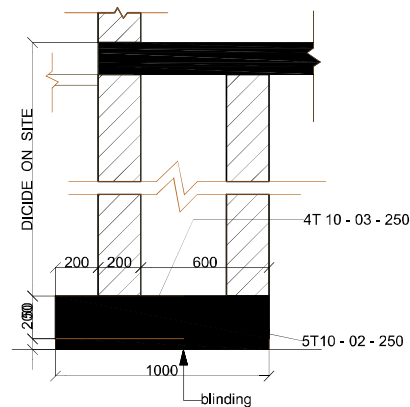
**STANDARD WATER
KIOSK TYPE 1
(SIDE ELEVATION)**

DRAWING DETAILS:

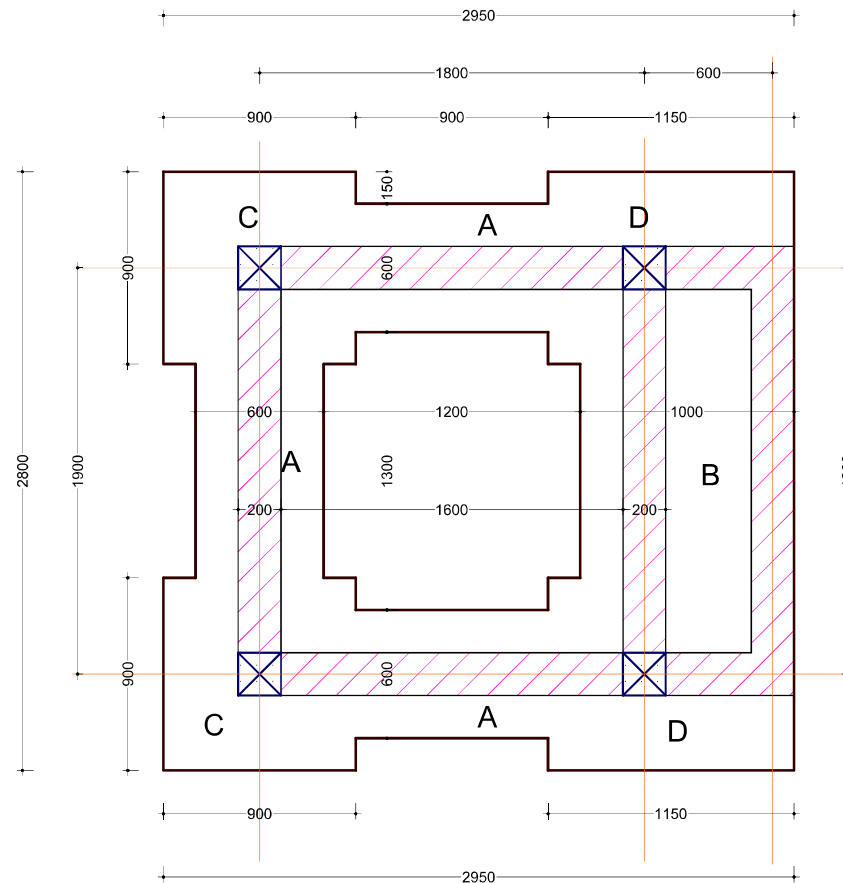
Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	3 of 16
Drawing No:	SHOFCO/KBR/008



**DETAIL FOR STRIP
FOOTING SHOWN THUS A**
Scale 1:25



**DETAIL FOR STRIP
FOOTING SHOWN THUS B**
Scale 1:25



FOUNDATION PLAN
Scale 1:25

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT
WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:

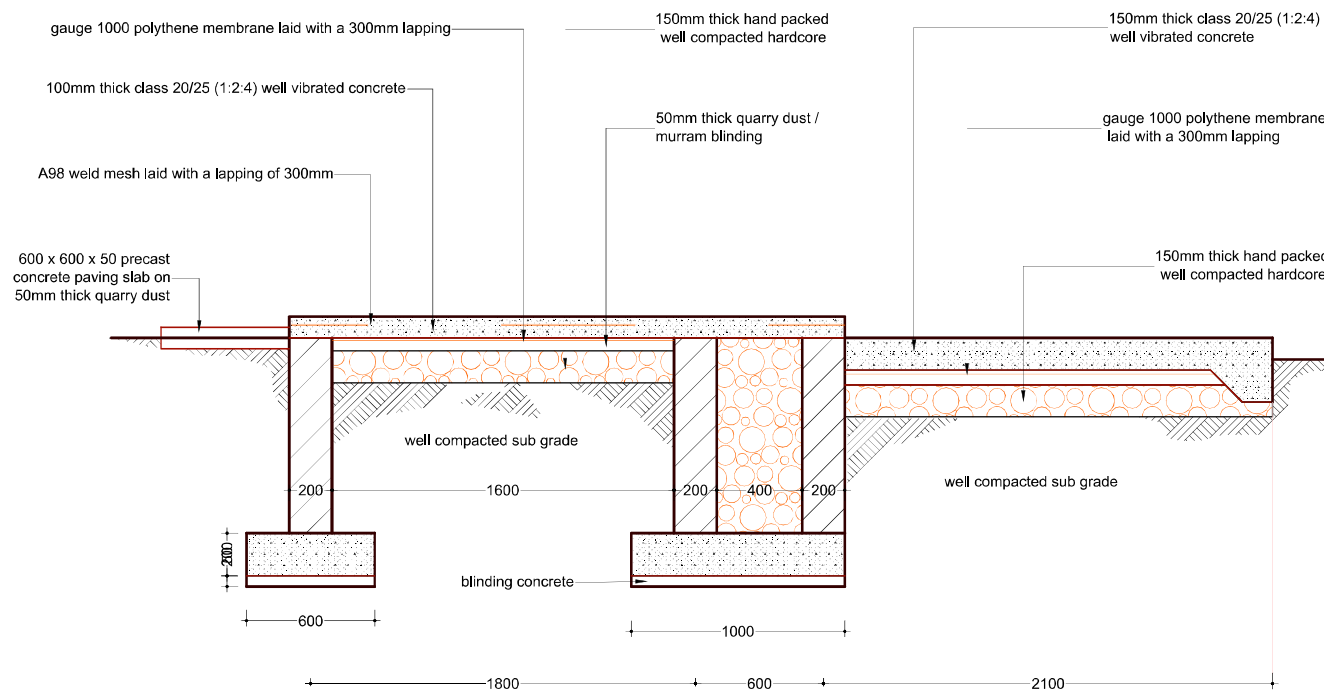


DRAWING TITLE:

**STANDARD WATER
KIOSK TYPE 1
(FOUNDATION LAYOUT)**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	4 of 16
Drawing No:	SHOFCO/KBR/008



FOUNDATION SECTION
Scale 1:25

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT
WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT**

ENGINEER:

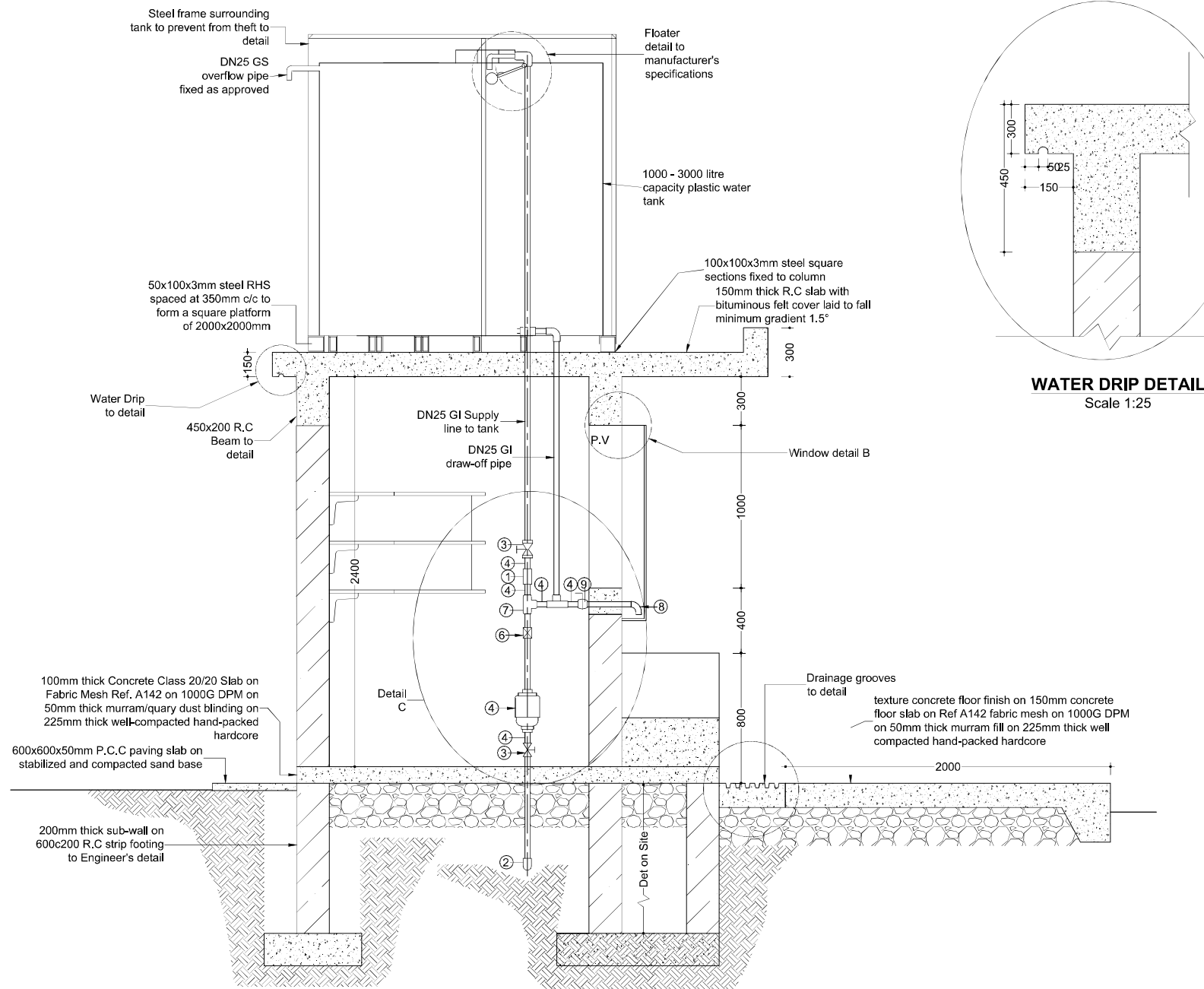


DRAWING TITLE:

**STANDARD WATER
KIOSK TYPE 1
(FOUNDATION SECTION)**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	5 of 16
Drawing No:	SHOFKOKBR/008



WATER DRIP DETAIL

NOTES:

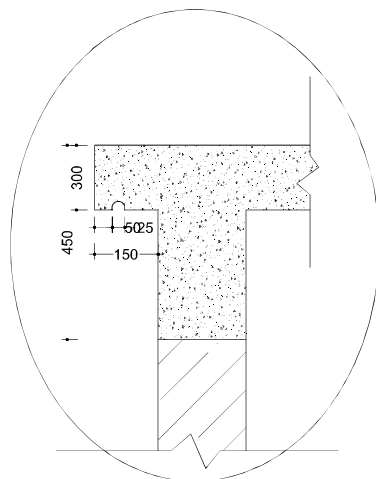
CLIENT

PROJECT:

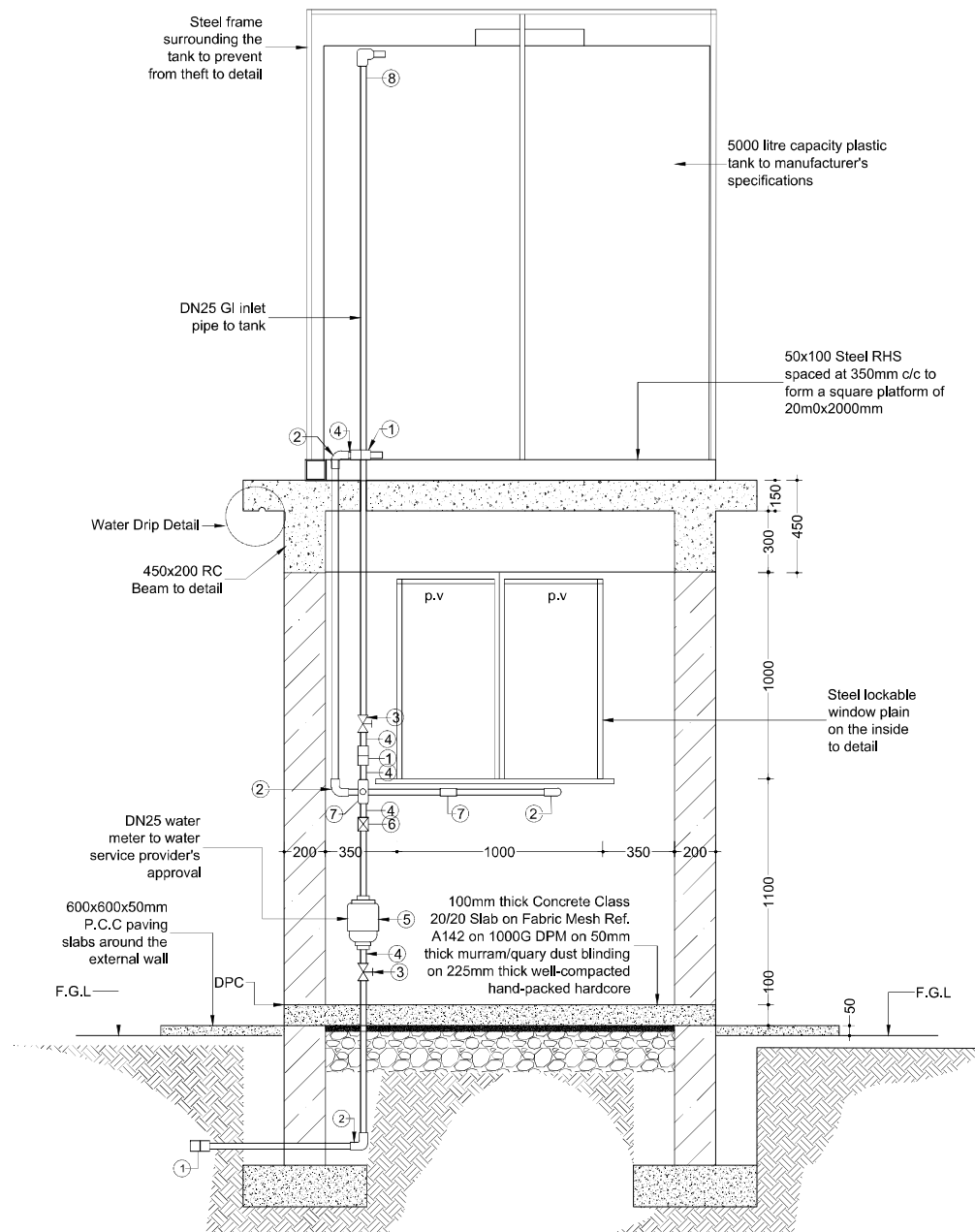
ENGINEER:

DRAWING TITLE:

DRAWING DETAILS:



WATER DRIP DETAIL
Scale 1:25 (A3)



SECTION Y-Y
Scale 1:25

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



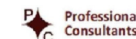
SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:

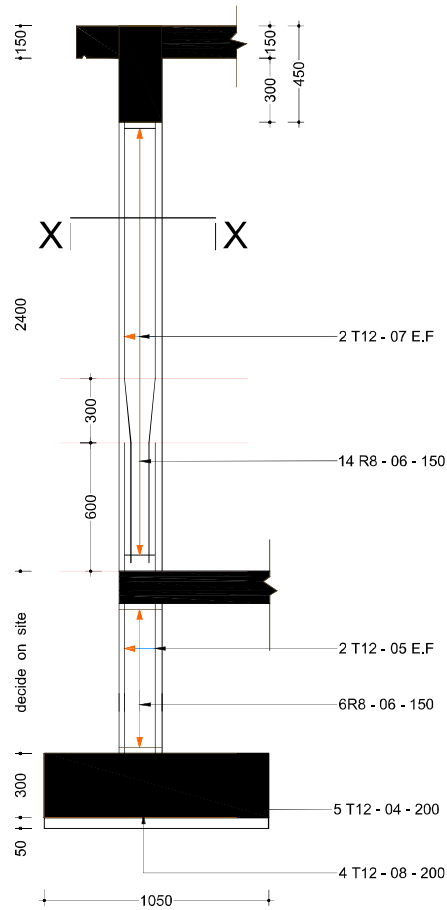


DRAWING TITLE:

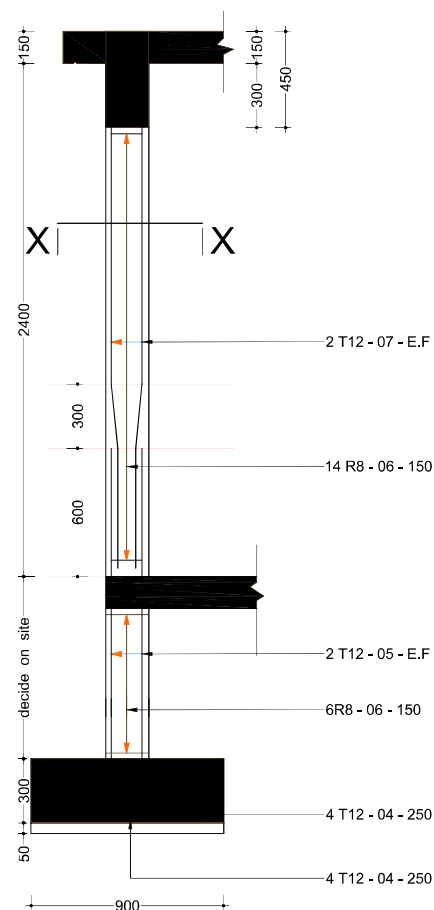
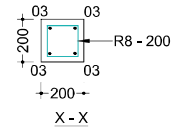
**STANDARD WATER
KIOSK TYPE 1
(SECTION Y-Y)**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	7 of 16
Drawing No:	SHOFCO/KBR/008



**DETAIL FOR COLUMN & COL. BASE
SHOWN THUS D 2No.**
Scale 1:25



**DETAIL FOR COLUMN & COL. BASE
SHOWN THUS C 2No.**
Scale 1:25

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

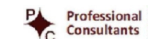
CLIENT



PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT
WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT**

ENGINEER:

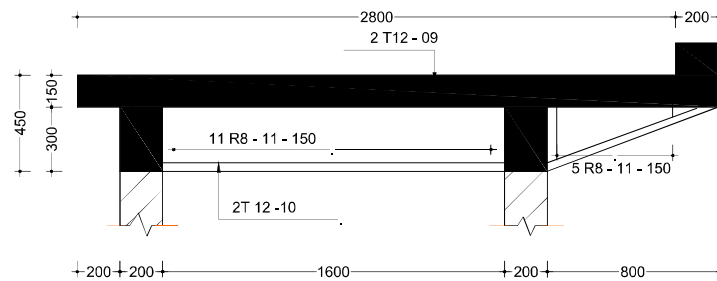


DRAWING TITLE:

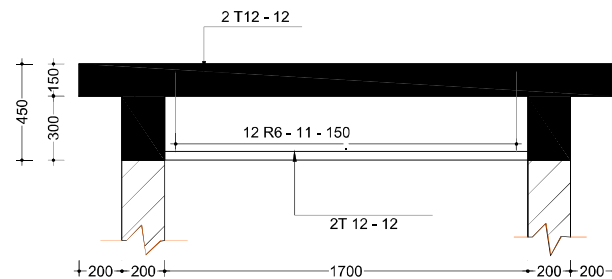
**STANDARD WATER
KIOSK TYPE 1
(COLUMN DETAILS)**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	8 of 16
Drawing No:	SHOFCO/KBR/008



BEAM A 2No.
Scale 1:25



BEAM B 2 No.
Scale 1:25

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT**

ENGINEER:

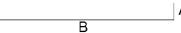
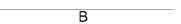
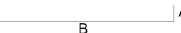


DRAWING TITLE:

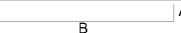
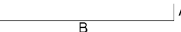
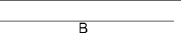
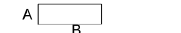
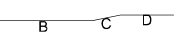
**STANDARD WATER
KIOSK TYPE 1
(BEAM DETAILS)**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	9 of 16
Drawing No:	SHOFCO/KBR/008

Item	Description	Bar type	Bar mark	Shape	Dimensions (mm)				Length (mm)	Number	Total length (mm)
					A	B	C	D			
1	Foundation Footing	Y10	01	A  A	100	500			700	18	56700mm
		Y10	02	 B		2000			2000	14	28,000mm
		Y10	03	A  A	100	1050			1250	7	8750mm

Length of bar is estimated to be 12,000mm

Item	Description	Bar type	Bar mark	Shape	Dimensions (mm)				Length (mm)	Number	Total length (mm)
					A	B	C	D			
1	Columns	Y12	04	A  A	100	800			1000	26	26,000
		Y12	08	A  A	100	1050			1250	10	10,000
		Y12	05	A  A	300	1800			2100	16	33,600
		R 8	06	A  A	100	100			500	80	40,000
		Y12	07	A  A	100	1500	300	600	2500	16	40,000

Length of bar is estimated to be 12,000mm

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT

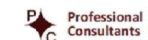


PROJECT:

KIBERA INVESTMENT DELIVERING SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT**

ENGINEER:



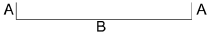
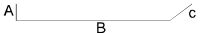

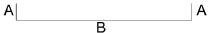
DRAWING TITLE:

**STANDARD WATER
KIOSK TYPE 1
(FOUNDATIONS &
COLUMN BAR
SCHEDULE)**


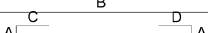
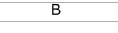
DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	10 of 16
Drawing No:	SHOFCO/KBR/008

N.T.S

Item	Description	Bar type	Bar mark	Shape	Dimensions (mm)				Length (mm)	Number	Total length (mm)
					A	B	C	D			
1	Beams	Y12	09	A  A	100	2750			2950	2	5,900
		Y12	10	A  C	100	1975	850		2925	2	5,850
		R 8	11	A  B	150	400			1200	45	55,000
		Y12	12	A  A	100	2050			2250	8	18,000

Length of bar is estimated to be 12,000mm

Item	Description	Bar type	Bar mark	Shape	Dimensions (mm)				Length (mm)	Number	Total length (mm)
					A	B	C	D			
1	Slab	Y10	13	A  D A	100	2,450	1000	1000	5150	16	74,400
		Y10	14	A  D A	100	2,900	1000	1600	5700	12	68,400
		Y10	15	 B		2,200			2200	19	41,800

Length of bar is estimated to be 12,000mm

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



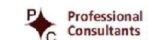
SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT**

ENGINEER:



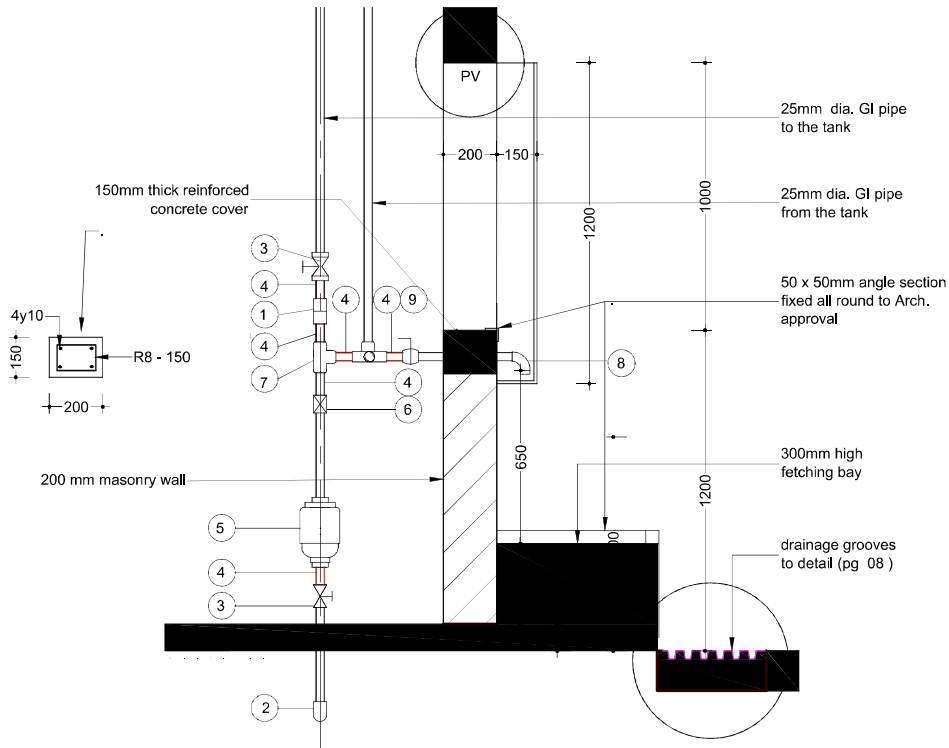
DRAWING TITLE:

**STANDARD WATER
KIOSK TYPE 1
(BEAMS & SLAB BAR
SCHEDULE)**

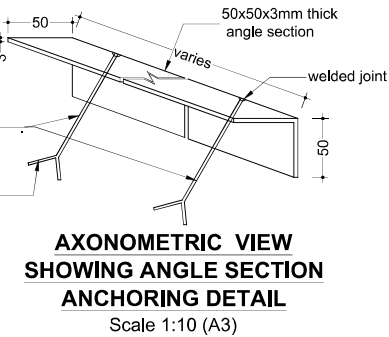
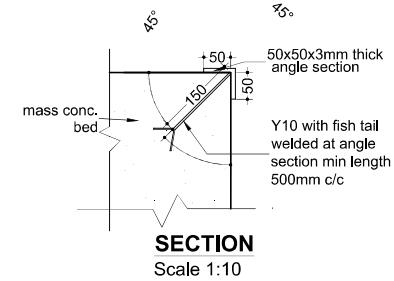
DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	11 of 16
Drawing No:	SHOFCO/KBR/008

N.T.S



DETAIL C
Scale 1:20



ITEM NO.	DESCRIPTION (ALL 25NN DIA)	UNIT)	QTY
1	Galvanised Iron Union	No.	3
2	Galvanised Iron Elbows	No.	3
3	Galvanised Iron Gate Valve (Pegler)	No.	2
4	Galvanised Iron Nipples	No.	11
5	Water Meter	No.	1
6	Non Return Valve	No.	1
7	Galvanised Iron Equal Tee	No.	5
8	Galvanised Iron Bend	No.	4
9	Ball Cock Water Taps	No.	3
10	Galvanised Iron Long Thread Nipples	No.	2
17	Galvanised Iron Black Nuts	No.	4
12	Galvanised Iron Class B Pipe (per metres)	No.	4
13	Boss white (400g)	No.	3
14	Temp Thread	LM.	2

NOTES:

- All dimensions are in millimeters unless specified otherwise.
- All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
- Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
- All concrete works to be class 20/25.
- All steel reinforcement to BS4449.
- Form-work to be fair-finished.
- Drains under buildings and driveways to be encased in at least 150mm thick concrete.
- Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
- All materials are subject to Engineer's approval before use.

CLIENT



PROJECT:

**KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT**

**WATER SUPPLY PROJECT
IN KIBRA INFORMAL
SETTLEMENT**

ENGINEER:



DRAWING TITLE:

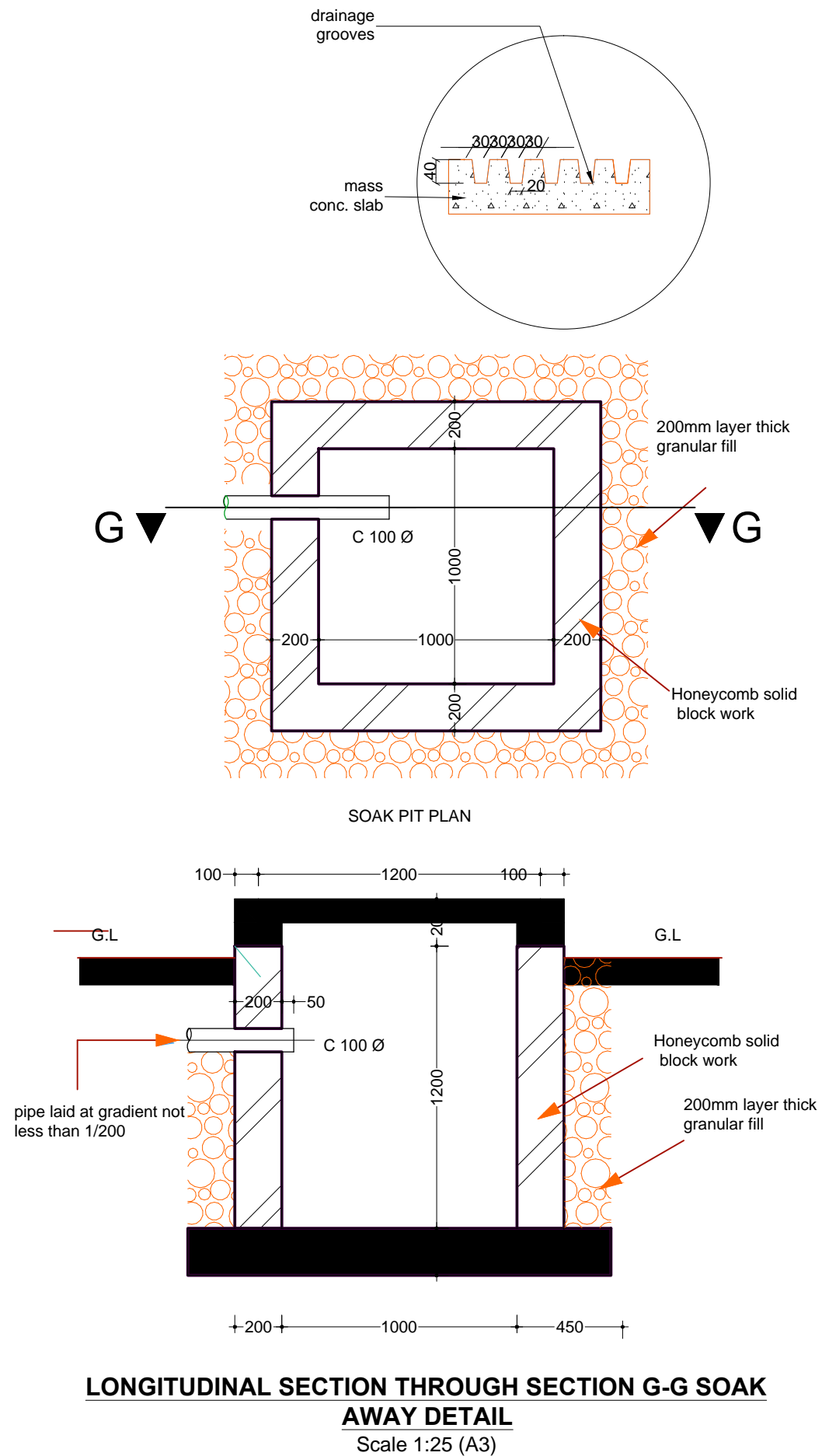
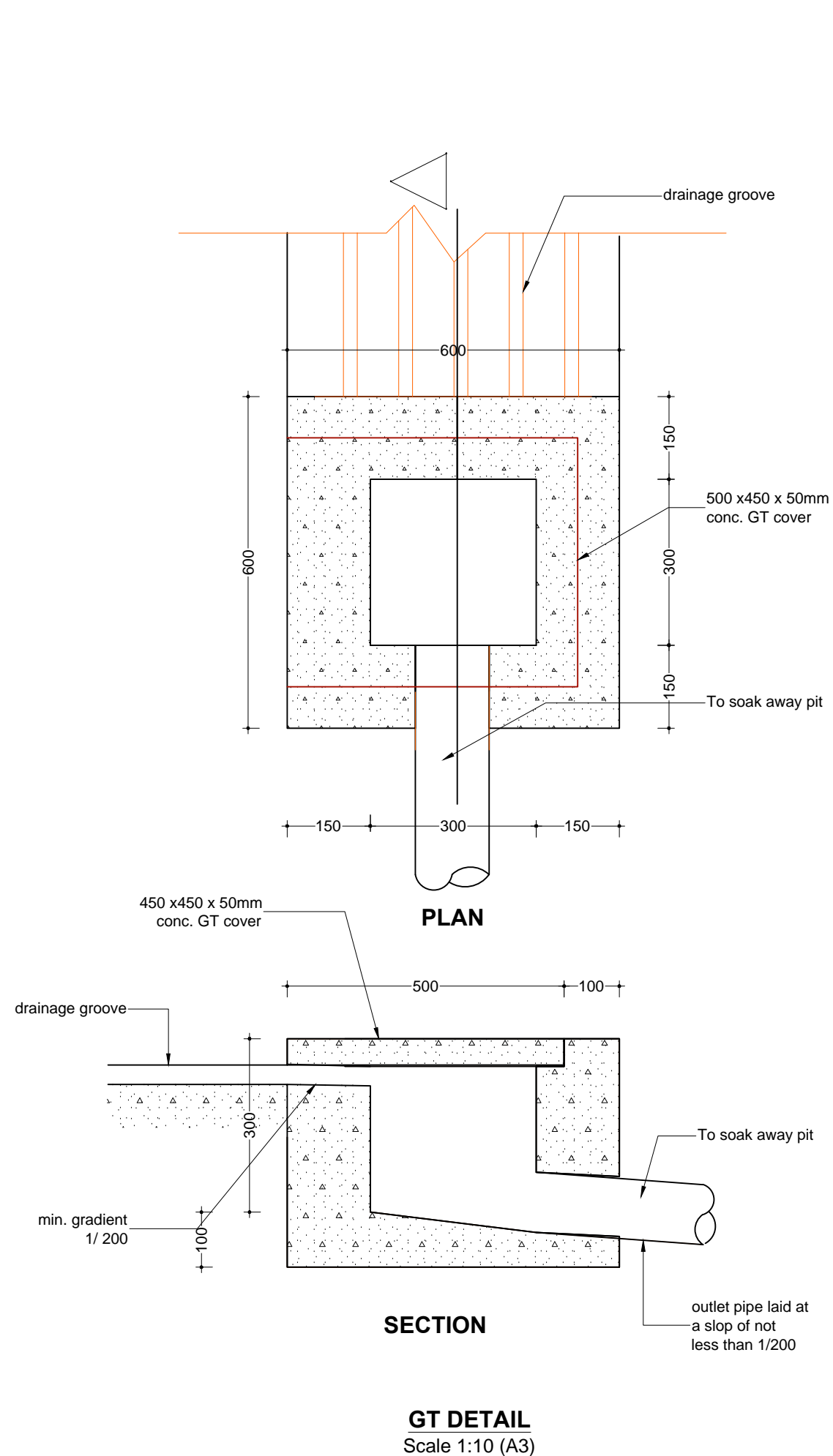
**STANDARD WATER
KIOSK TYPE 1
(PLUMBING DETAILS)**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	12 of 16
Drawing No:	SHOFCO/KBR/008

N.T.S

G:\Kibera Project\SHOFCO-KIBERA-KIOSK AND TANKS.dwg <Drainage Details> Tue, 07 Jun 2022 - 02:42pm User



NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



SHINING HOPE FOR
COMMUNITIES (SHOFCO)

PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT

**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:

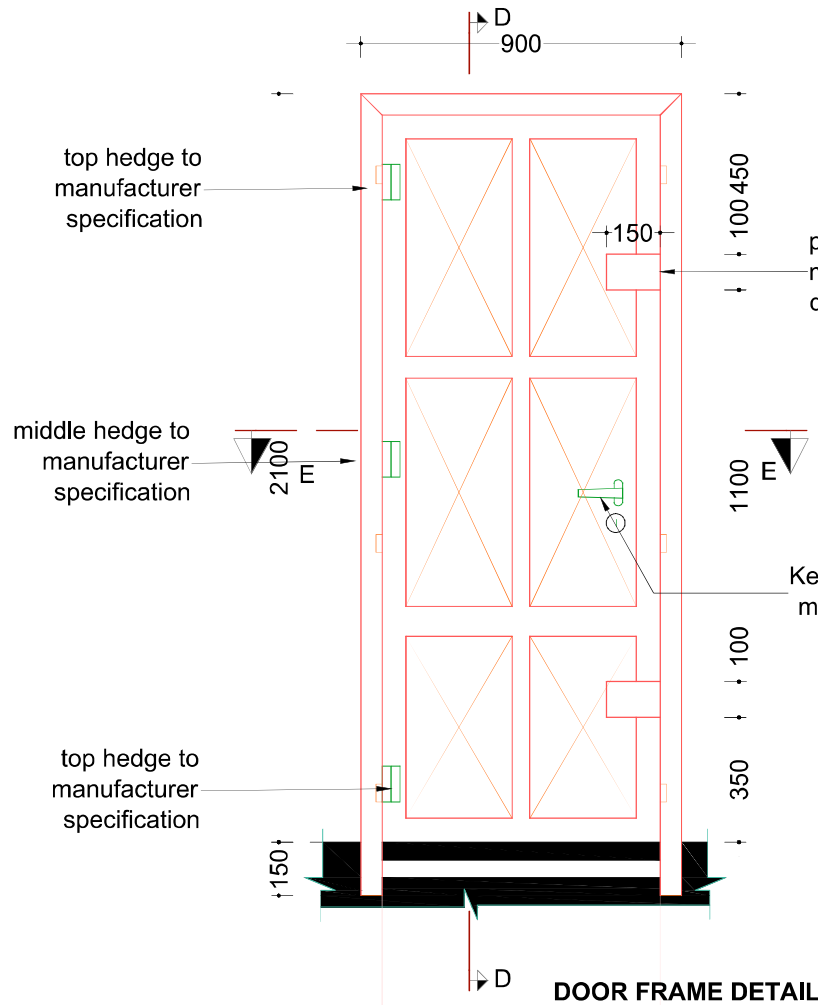


DRAWING TITLE:

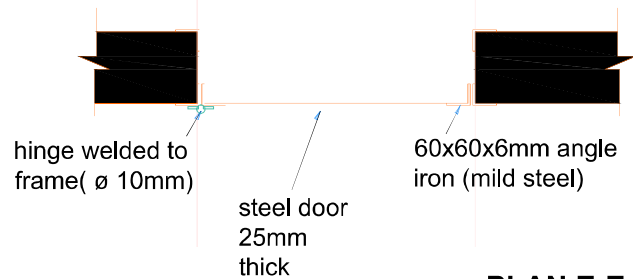
**STANDARD WATER
KIOSK TYPE 1
(DRAINAGE DETAILS)**

DRAWING DETAILS:

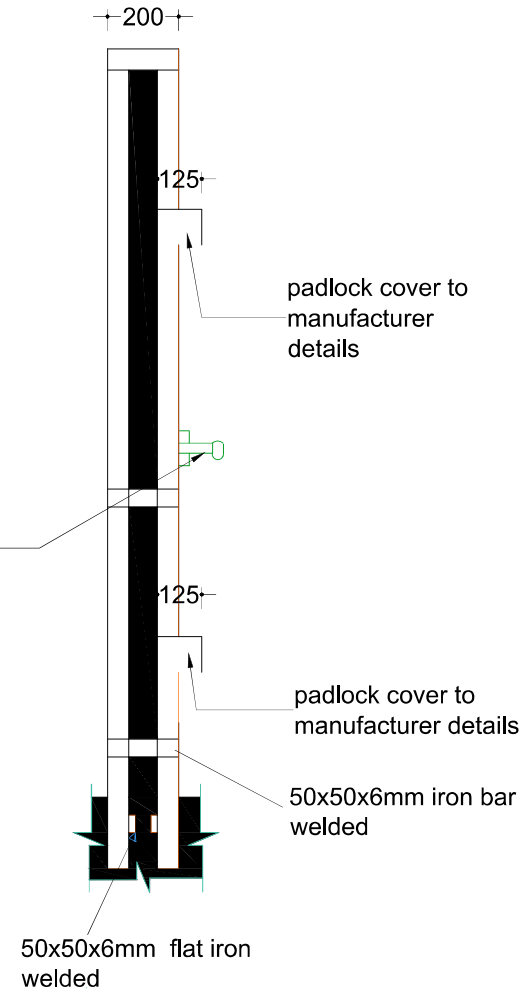
Designed by:	Drawn by:
M.K.	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	13 of 16
Drawing No:	SHOFCO/KBR/WS/001



DOOR FRAME DETAIL



PLAN E-E
N.T.S



SECTION D-D

NOTES:

1. All dimensions are in millimeters unless specified otherwise.
2. All dimensions to be read and confirmed before construction begins and any discrepancy reported to Engineer.
3. Foundation depths to be determined on site but to hard stratum and approved by Engineer on site.
4. All concrete works to be class 20/25.
5. All steel reinforcement to BS4449.
6. Form-work to be fair-finished.
7. Drains under buildings and driveways to be encased in at least 150mm thick concrete.
8. Foundation trenches and concrete works to be treated with approved anti-termite chemical with at least 10 year guarantee.
9. All materials are subject to Engineer's approval before use.

CLIENT



PROJECT:

KIBERA INVESTMENT DELIVERING
SAFE WATER (KIDS) PROJECT
**WATER SUPPLY PROJECT
IN KIBERA INFORMAL
SETTLEMENT**

ENGINEER:



DRAWING TITLE:

**STANDARD WATER
KIOSK TYPE 1
(DOOR DETAILS)**

DRAWING DETAILS:

Designed by:	Drawn by:
M.K	M.K.
Revised by:	Approved by:
	Eng. J. Loveday
Scale:	Date:
As Shown	APRIL 2022
Sheet No:	15 of 16
Drawing No:	SHOFCO/KBR/008

N.T.S



STEEL CAGE DETAIL



Designed by:		Drawn by:	
M.K		M.K.	
Revised by:		Approved by:	
		Eng. J. Loveday	
Scale:		Date:	
As Shown		APRIL 2022	
Sheet No:	16 of 16		
Drawing No:	SHOFCO/KB/R/008		

59