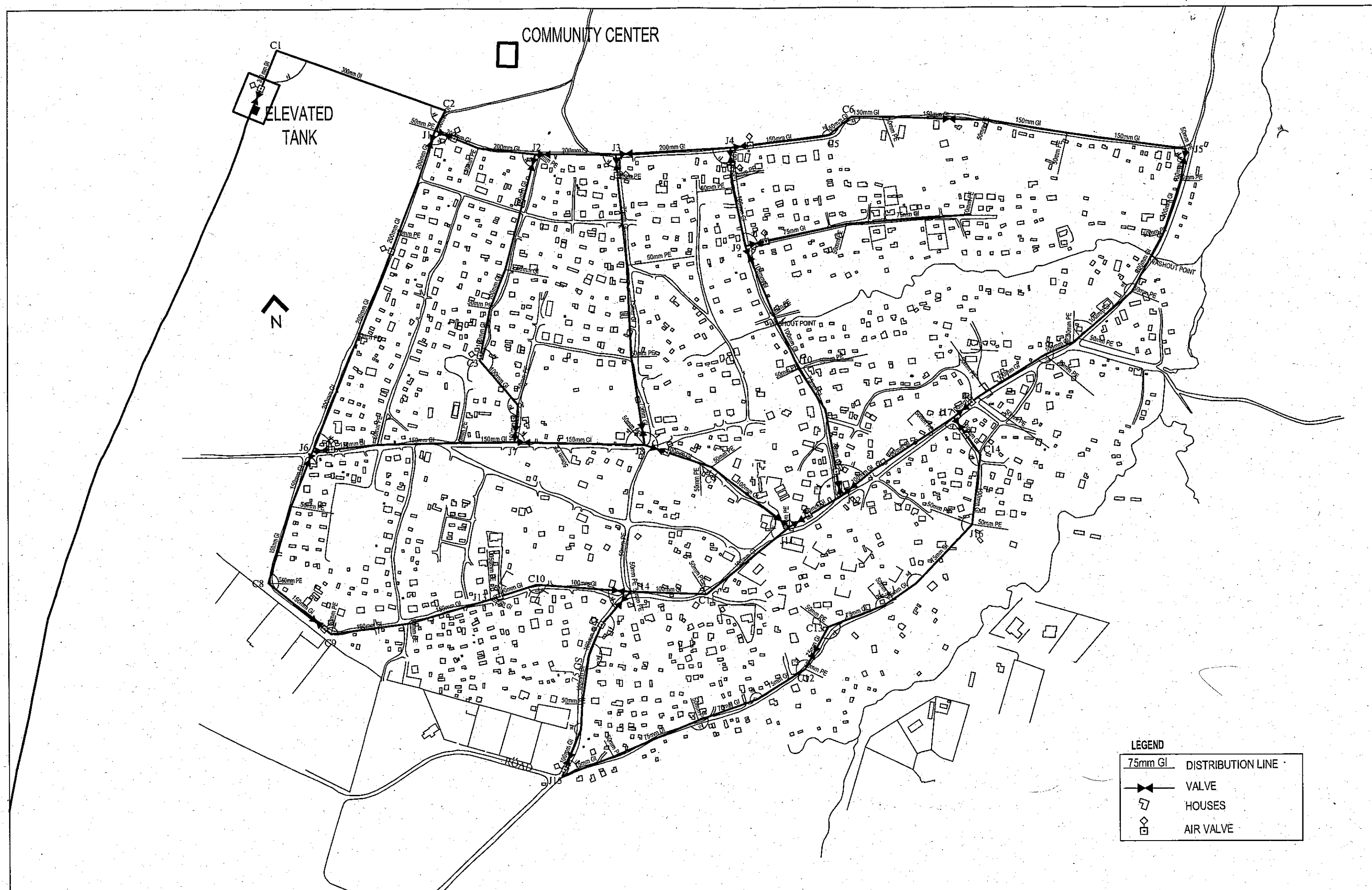

付図

基本設計図(図面リスト)

No.	名称
一般配置図	
Drawing-1	ンゴンベ地区給水施設配置図 (配水施設)
Drawing-2	ンゴンベ地区給水施設配置図 (井戸、送水)
Drawing-3	カリキリキ地区給水施設配置図
Drawing-4	フリーダム地区給水施設配置図
Drawing-5	給水システム図
取水施設	
Drawing-6	取水施設平面図
Drawing-7	井戸構造、及び水中ポンプ据付図
Drawing-8	ポンプ運転小屋
Drawing-9	井戸上部詳細図
送水施設	
Drawing-10	ンゴンベ送水管 (1/5)
Drawing-11	ンゴンベ送水管 (2/5)
Drawing-12	ンゴンベ送水管 (3/5)
Drawing-13	ンゴンベ送水管 (4/5)
Drawing-14	ンゴンベ送水管 (5/5)
Drawing-15	カリキリキ送水管 (1/2)
Drawing-16	カリキリキ送水管 (2/2)
配水施設	
Drawing-17	配水池施設平面図 - ンゴンベ地区
Drawing-18	配水池施設平面図 - カリキリキ地区
Drawing-19	配水池施設平面図 - フリーダム地区
Drawing-20	塩素消毒設備
Drawing-21	高架水槽 (ンゴンベ:300m3)
Drawing-22	高架水槽 (カリキリキ、フリーダム:100m3)
Drawing-23	共同水栓
Drawing-24	管理設標準図
Drawing-25	スラストブロック及び排水口
Drawing-26	バルブボックス



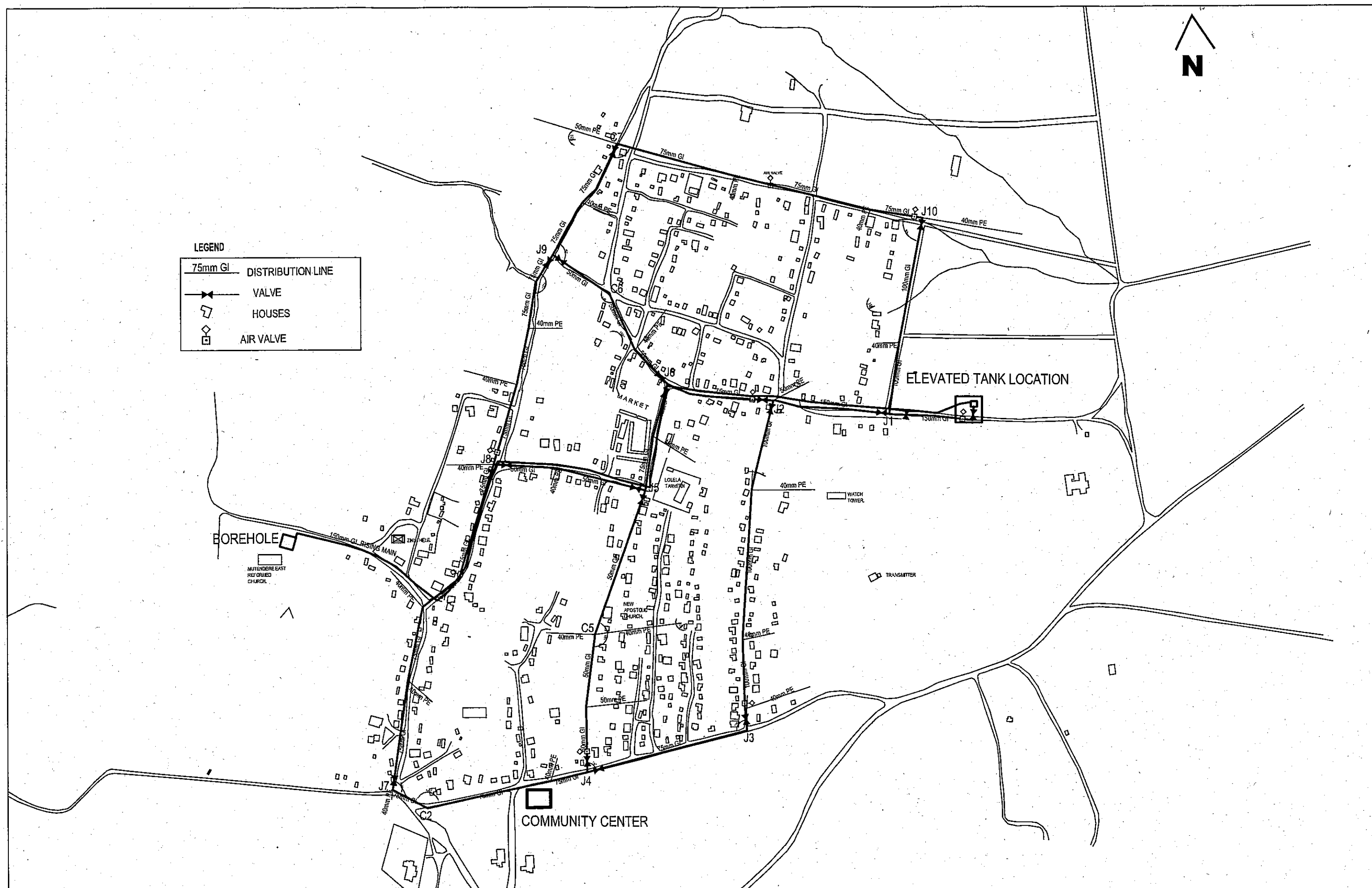
LEGEND	
75mm GI	DISTRIBUTION LINE
⌞	VALVE
□	HOUSES
◇	AIR VALVE

LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

NIPPON KOEI CO., LTD.

DRAWING No:	D-1
TITLE:	ンゴンベ地区給水施設配置図 (配水施設)



LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

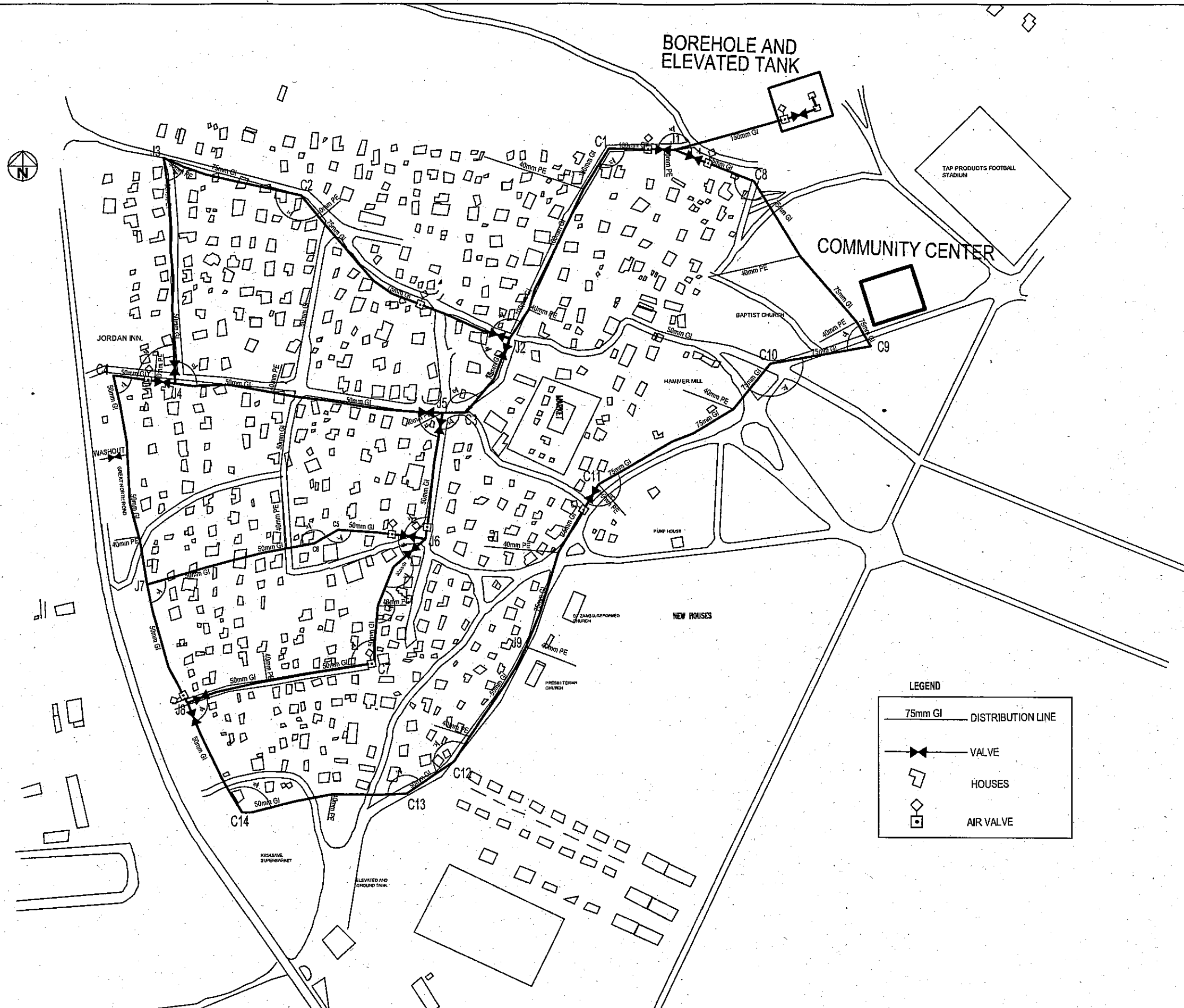
JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

NIPPON KOEI CO., LTD.

DRAWING No:
D-3

TITLE: カリキリキ地区給水施設配置図



LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

NIPPON KOEI CO., LTD.

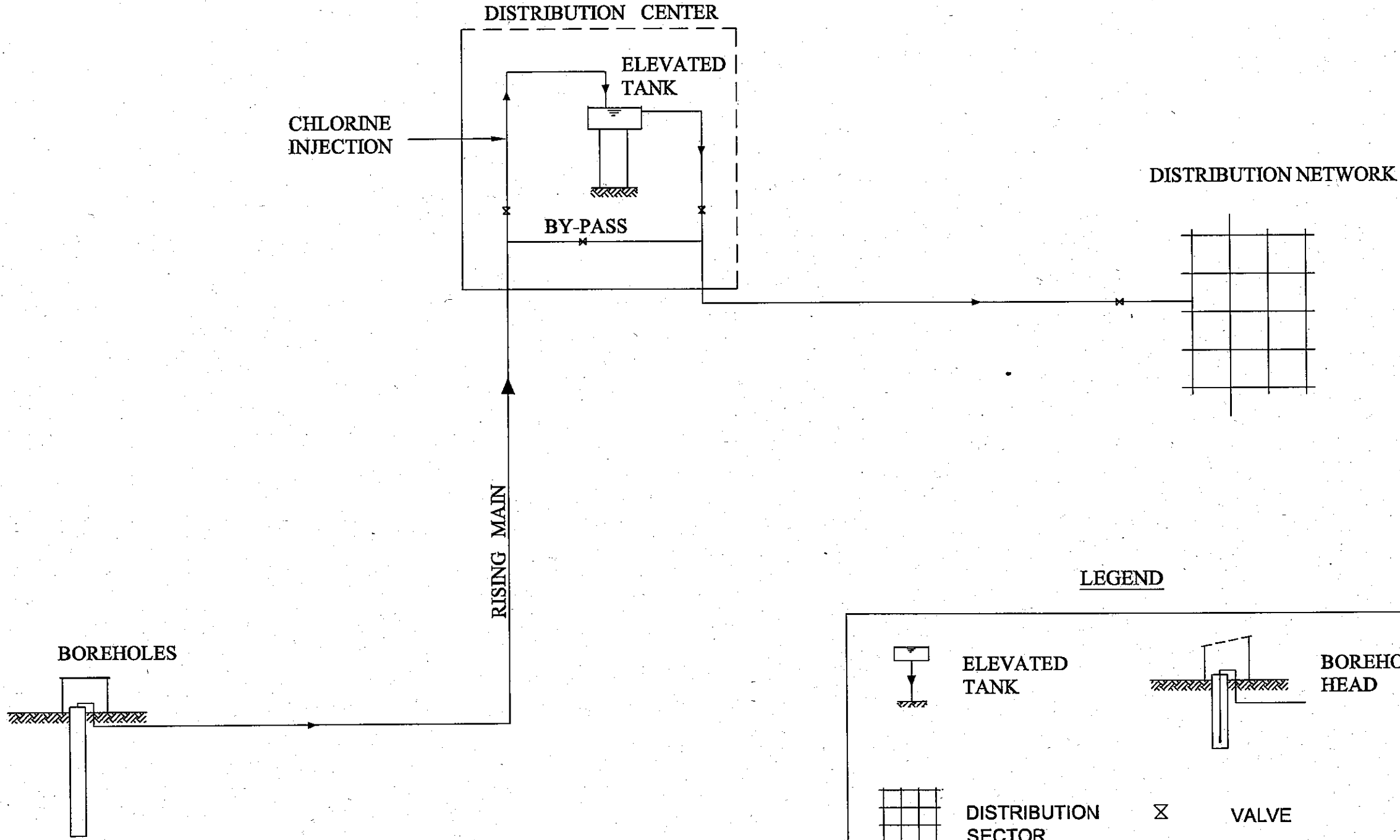
DRAWING No:

D-4

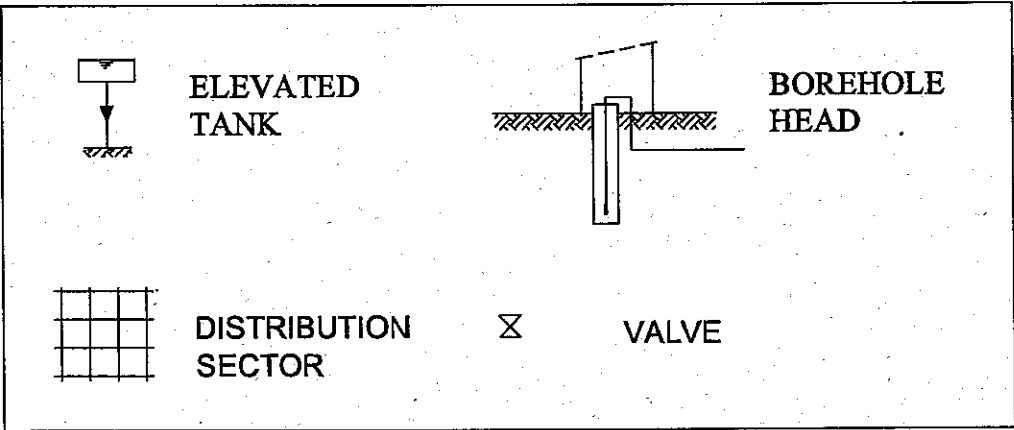
TITLE:

フリーダム地区給水施設配置図

DISTRIBUTION SYSTEM-SCHEMATIC



LEGEND



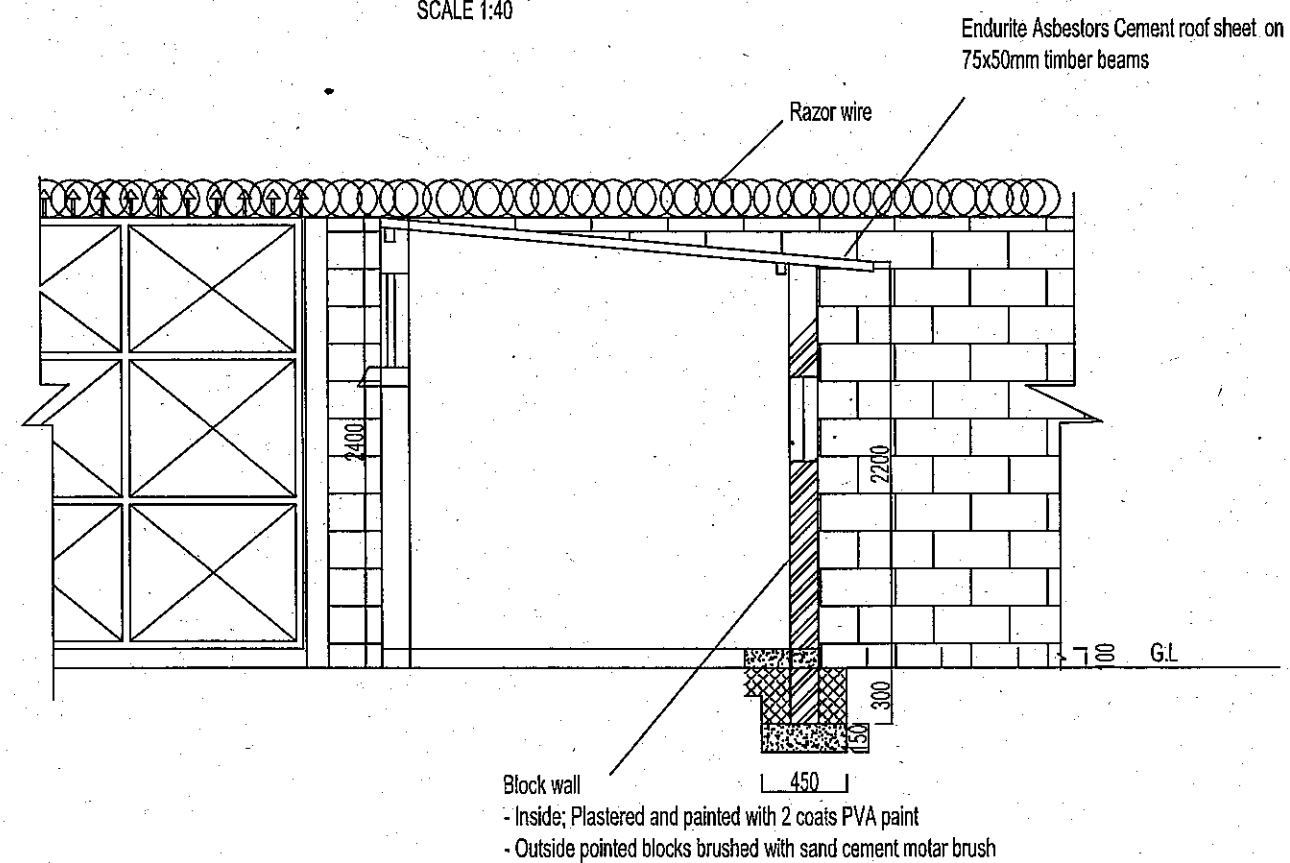
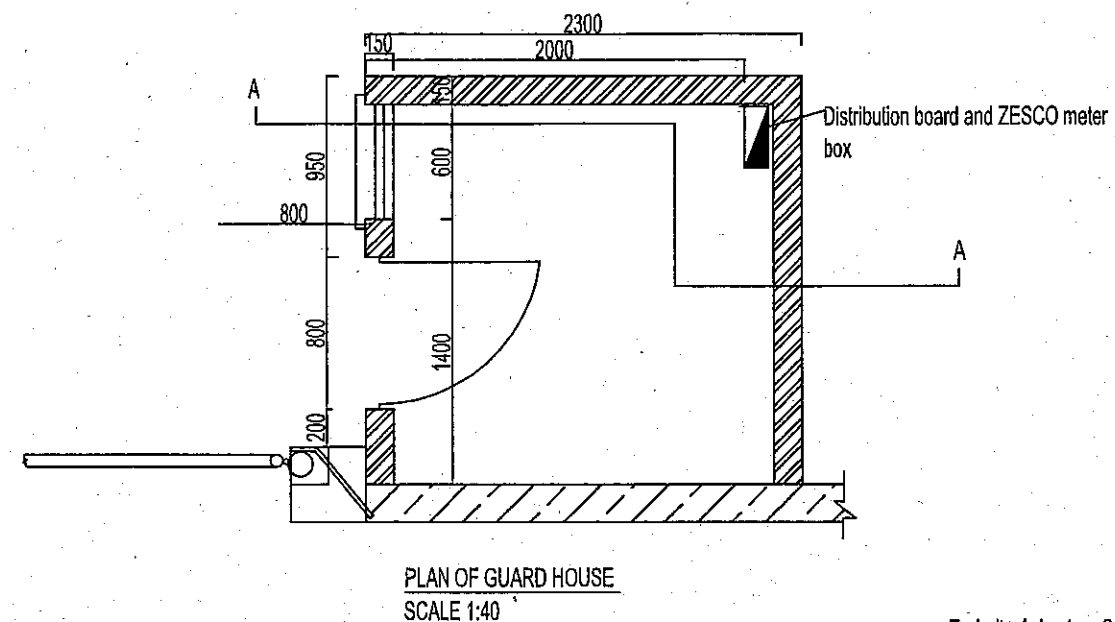
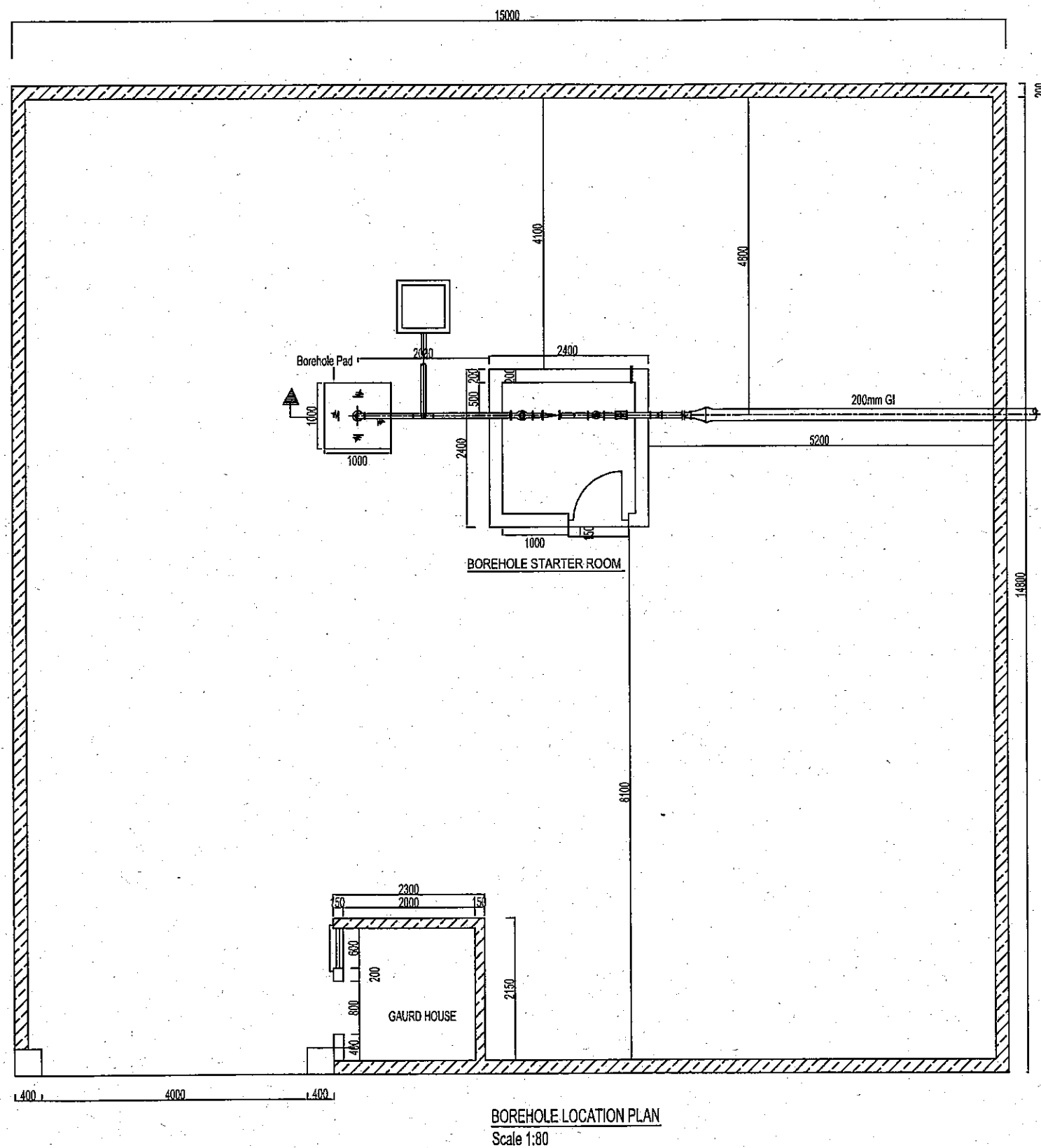
LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

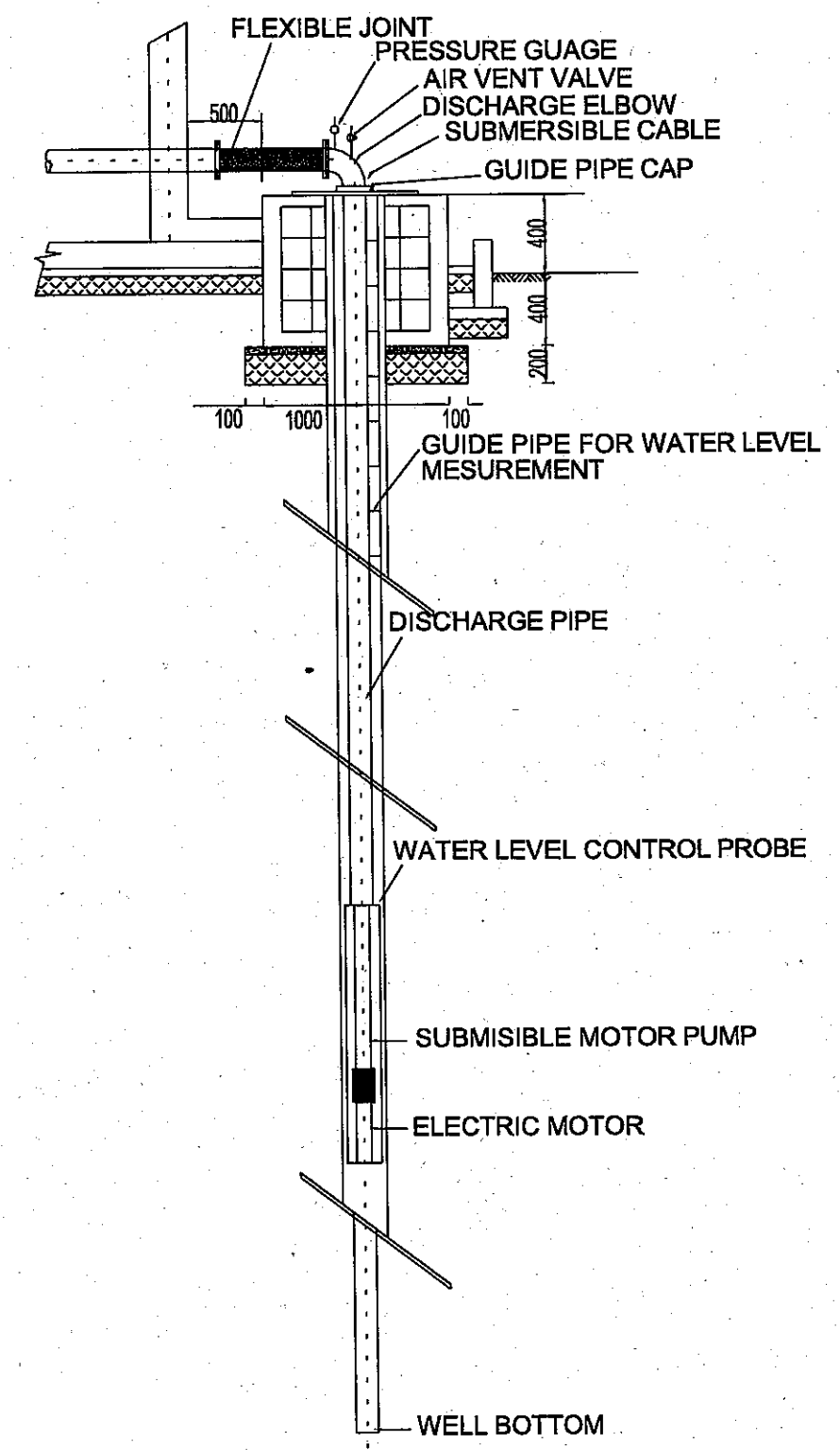
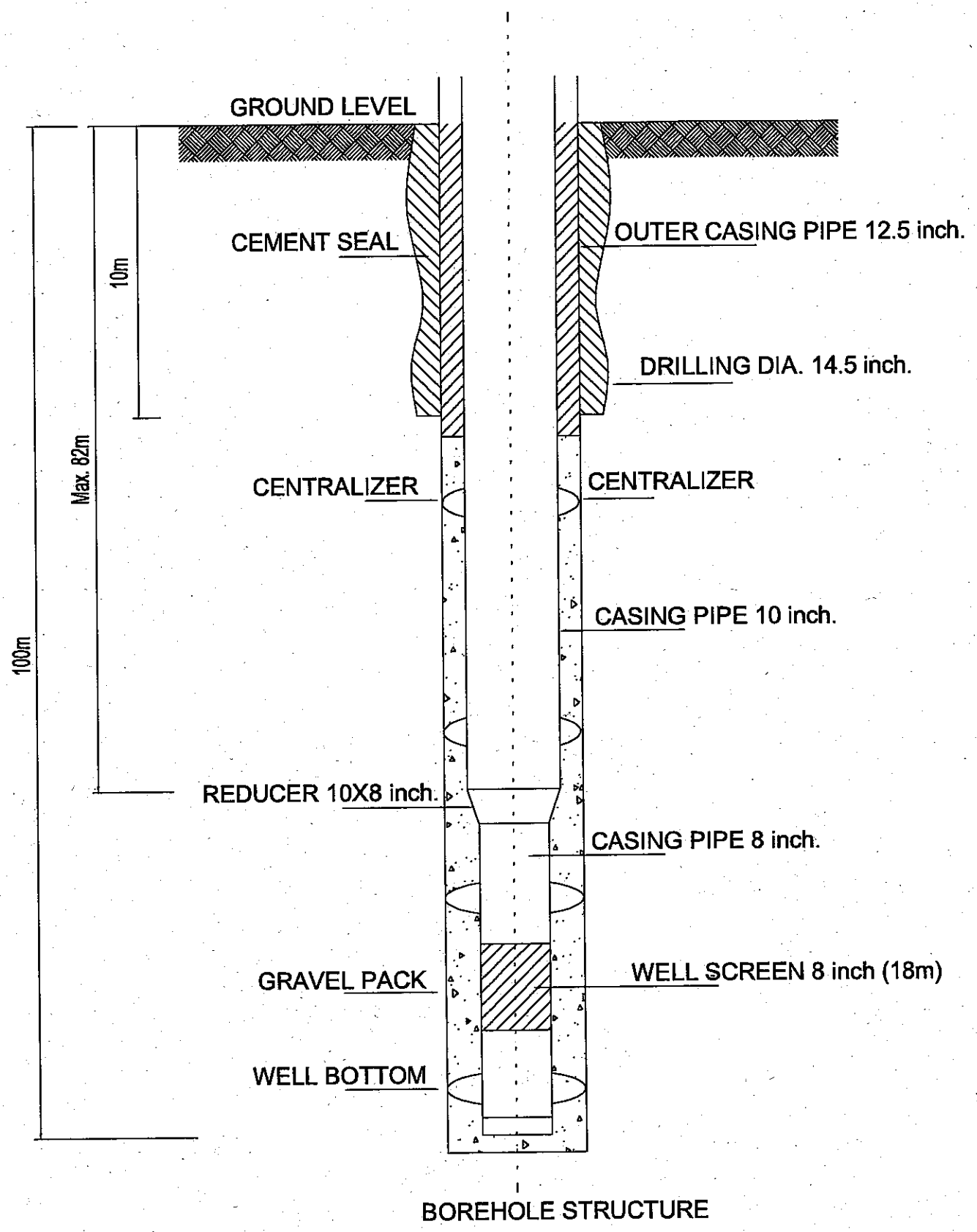
JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

NIPPON KOEI CO., LTD.

DRAWING No:
D-5

TITLE: 給水システム図





LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

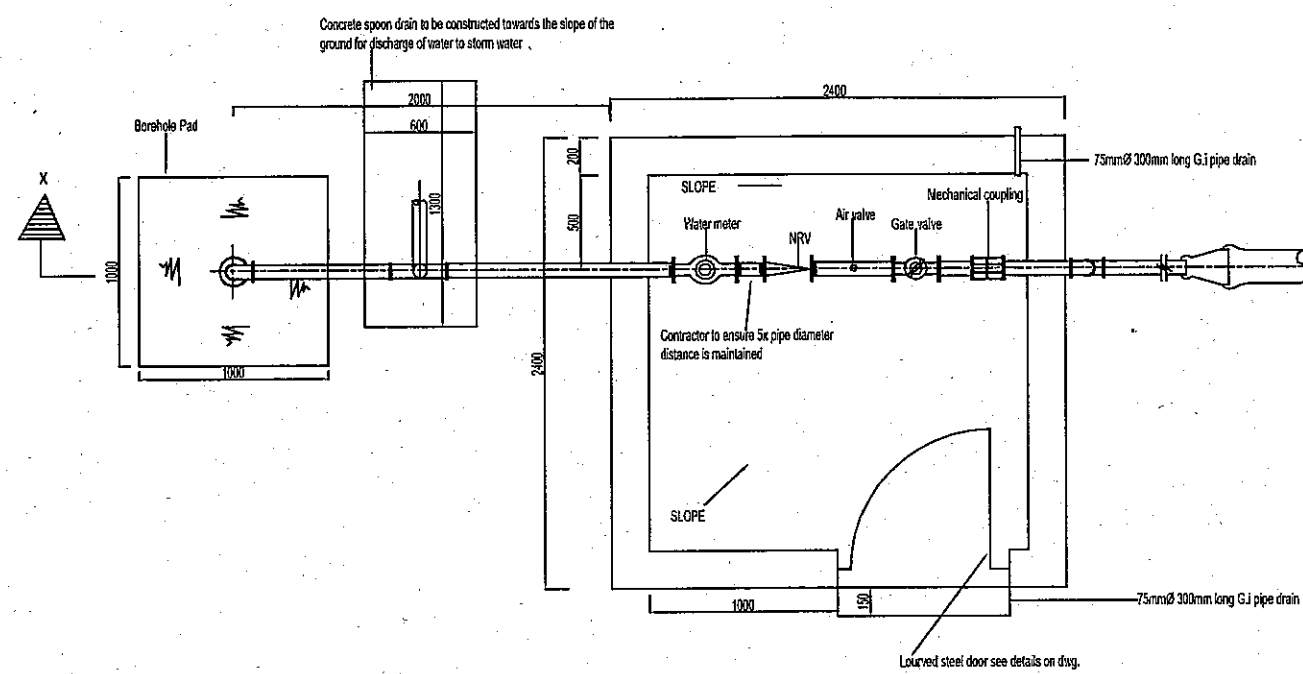
NIPPON KOEI CO., LTD.

DRAWING No:

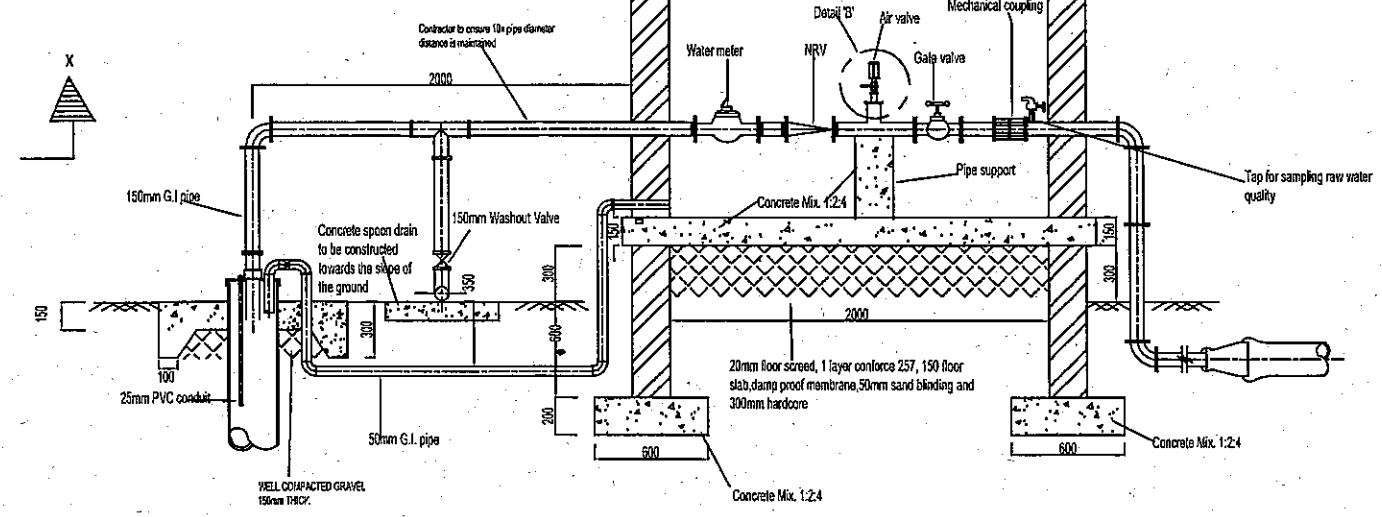
D-7

TITLE:

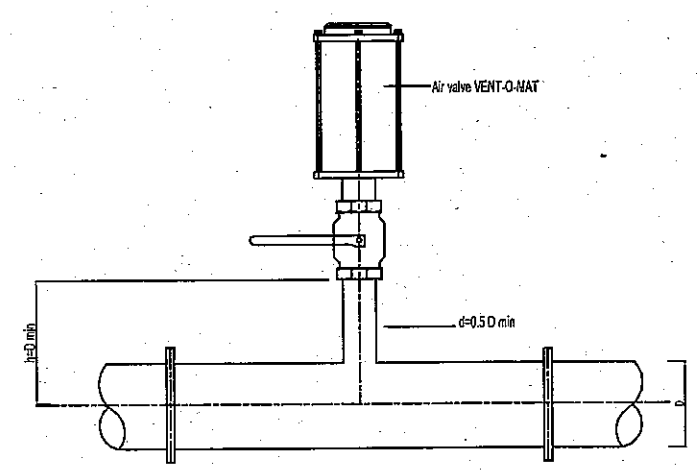
井戸構造及び水中ポンプ据付図



BOREHOLE STARTER ROOM PLAN
Scale 1:40

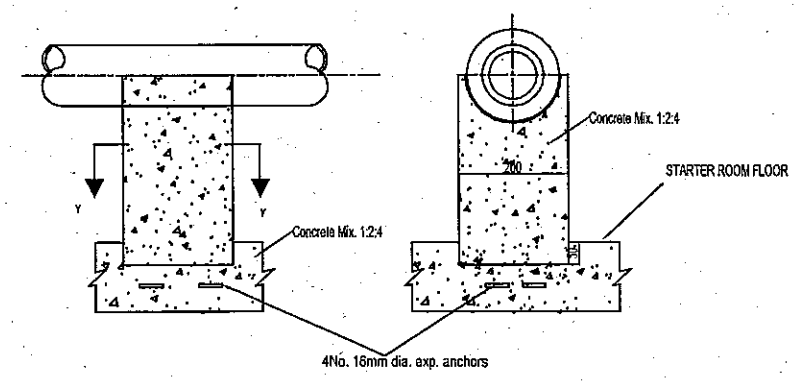


SECTION X-X
Scale 1:40



DETAIL 'B'
NTS

NOTE:
D= outer diameter



PIPE SUPPORT DETAIL
NOT TO SCALE

NOTE:

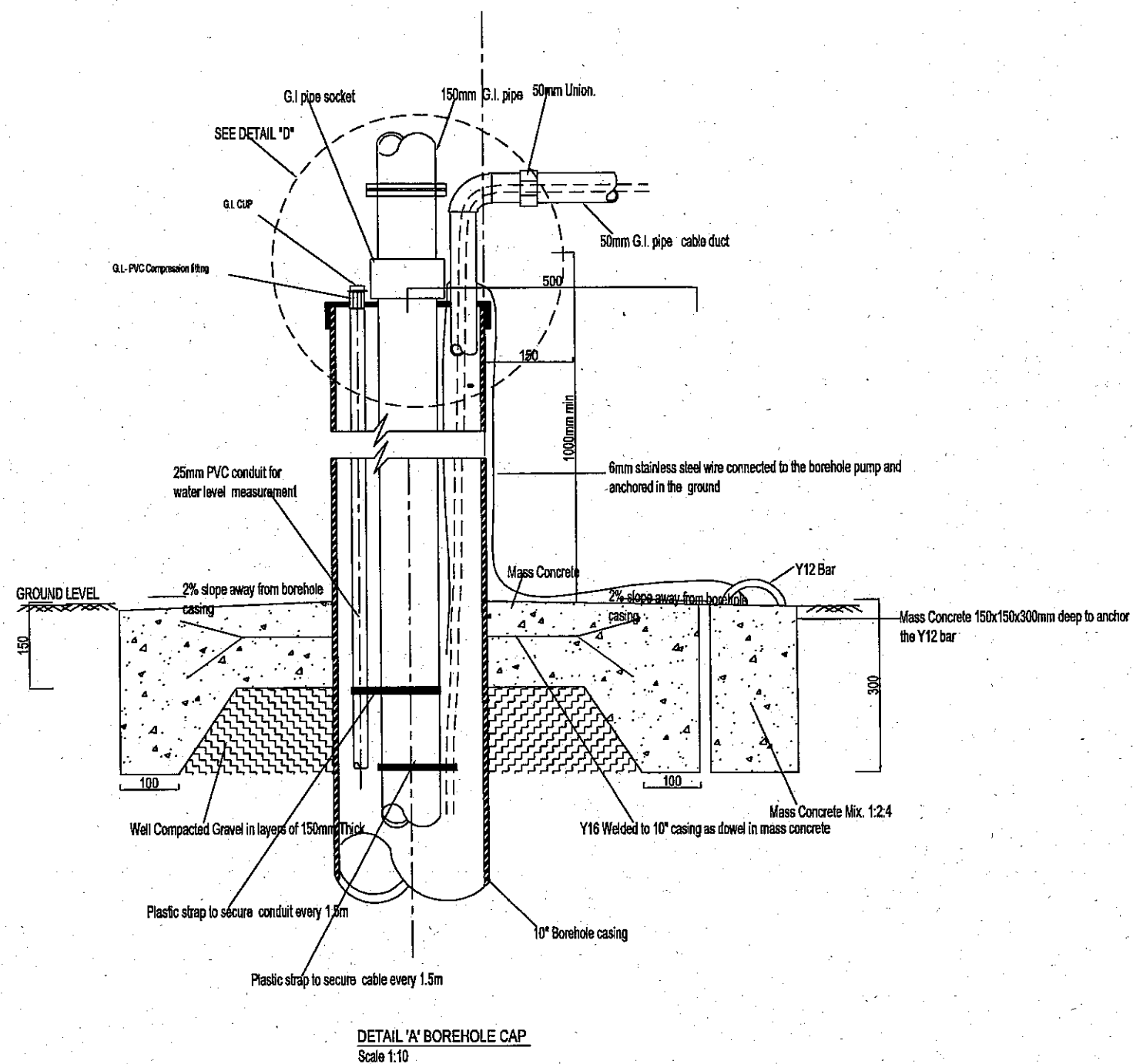
- 1) Discharge piping as per pump manufacturer's specifications or as directed by the project manager.
- 2) All accessories, e.g. door locks, priming and painting, plastering on walls, etc, to be included in Contractor's unit price.
- 3) Drawing is typical for 10" cased borehole.

**LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA**

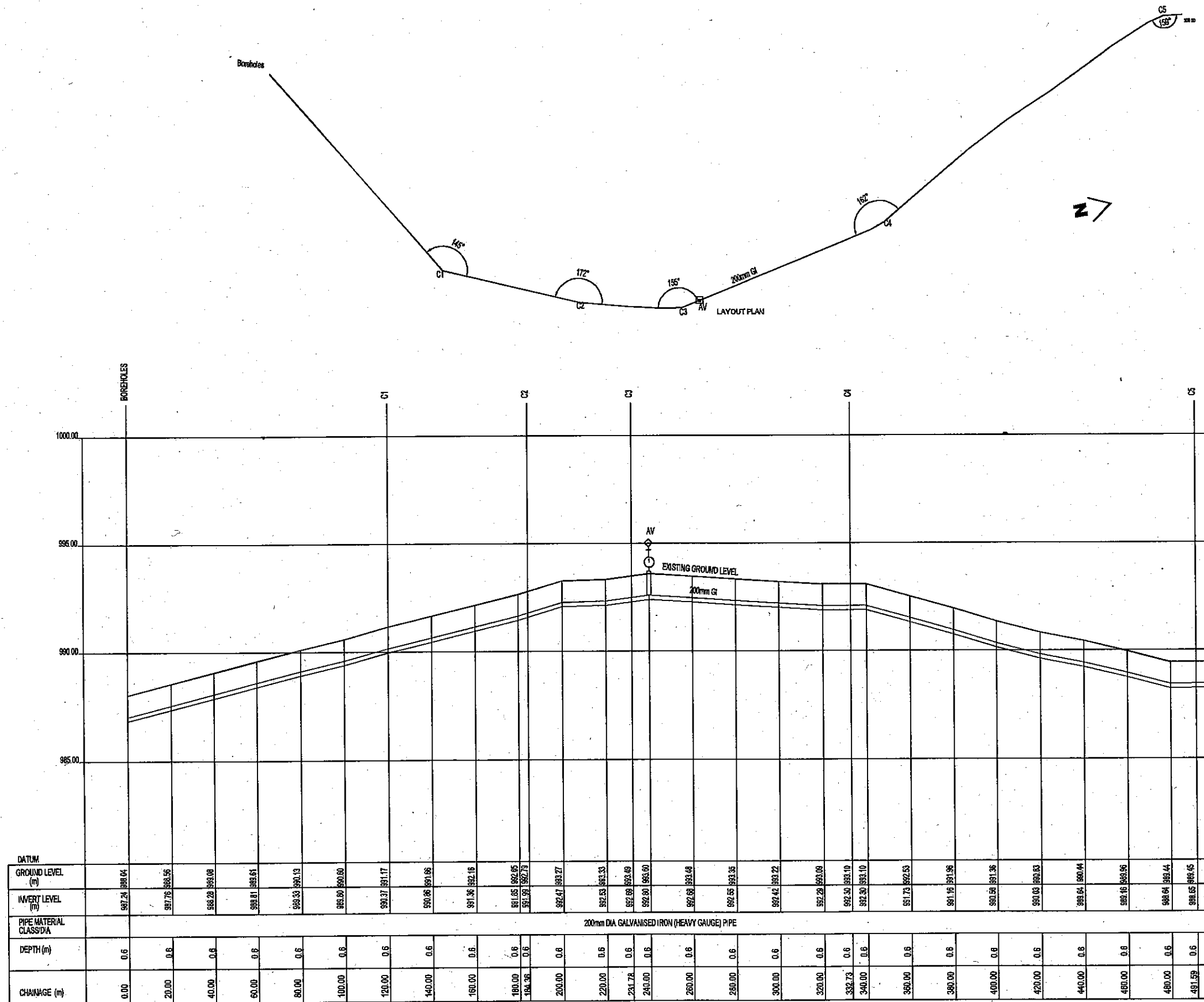
JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

NIPPON KOEI CO., LTD.

DRAWING No: **D-8**
TITLE: **ポンプ運転小屋**



TITLE: 井戸上部詳細図



LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

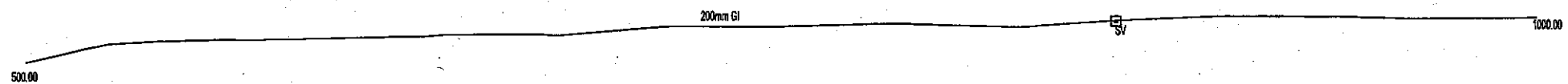
NIPPON KOEI CO., LTD.

DRAWING No:

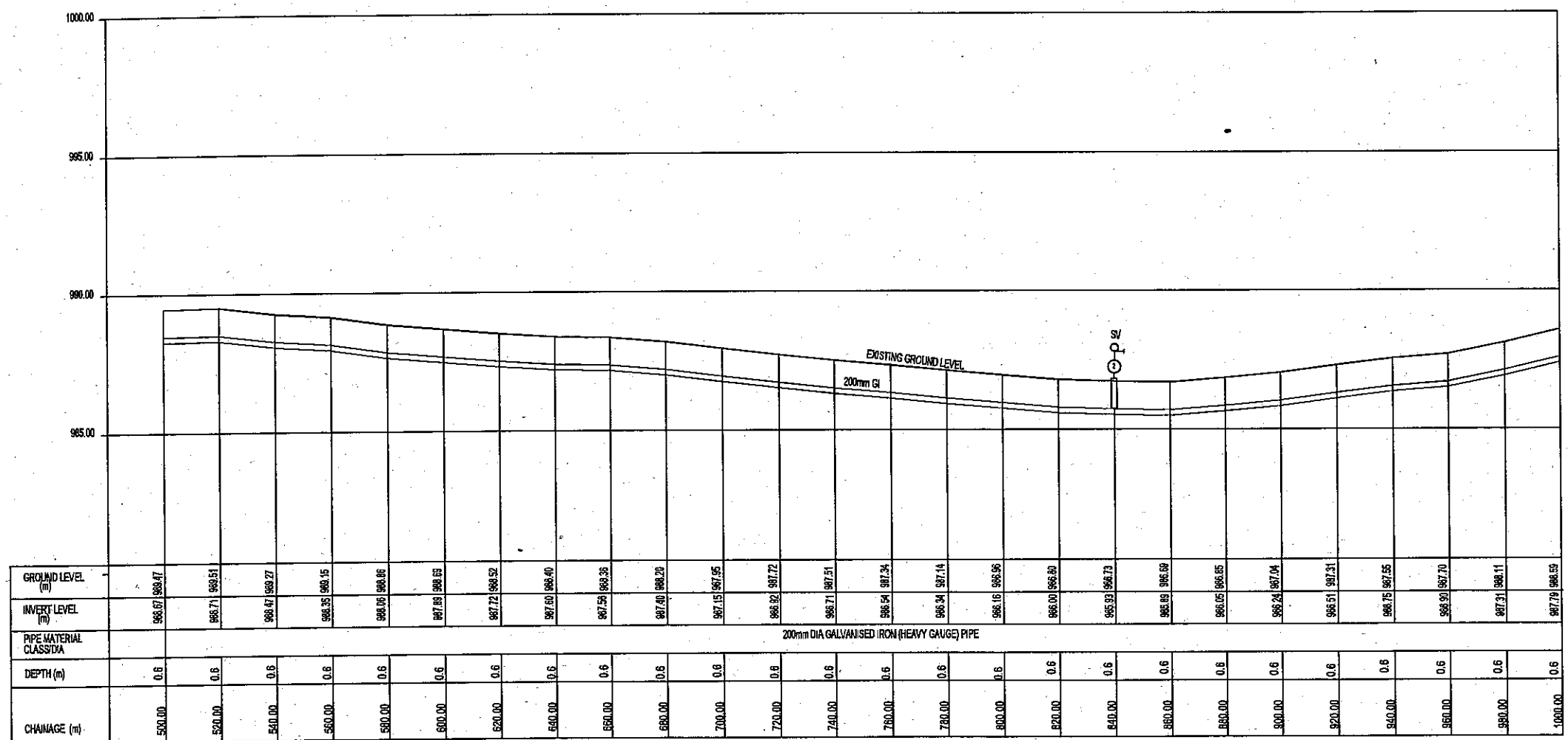
D-10

TITLE:

ンゴンベ送水管 (1/5)

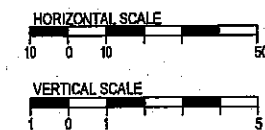


LAYOUT PLAN



LONGITUDINAL SECTION OF RISING MAIN

- LEGEND
- C1 CORNER NUMBER
 - SCOUR VALVE
 - AIR VALVE
 - CHAMBER NUMBER



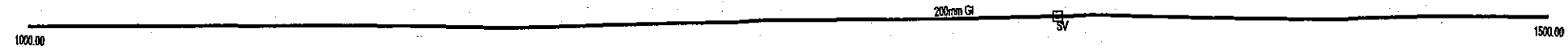
LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

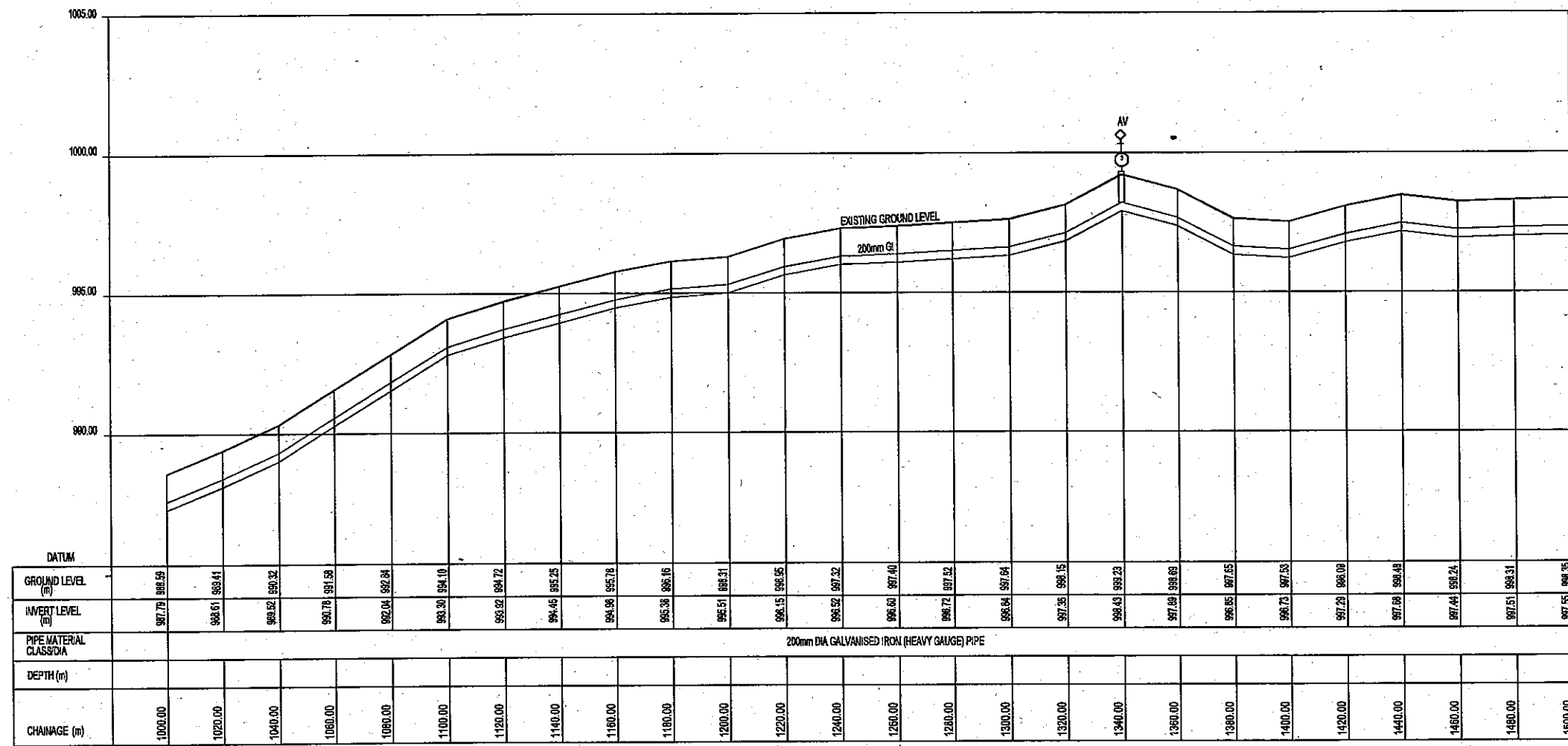
NIPPON KOEI CO., LTD.

DRAWING No:
D-11

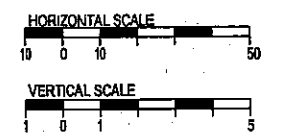
TITLE:
ンゴンベ送水管 (2/5)



LAYOUT PLAN



- LEGEND
- C1 CORNER NUMBER
 - SCOUR VALVE
 - AIR VALVE
 - CHAMBER NUMBER



LONGITUDINAL SECTION OF RISING MAIN

LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

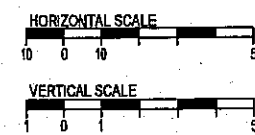
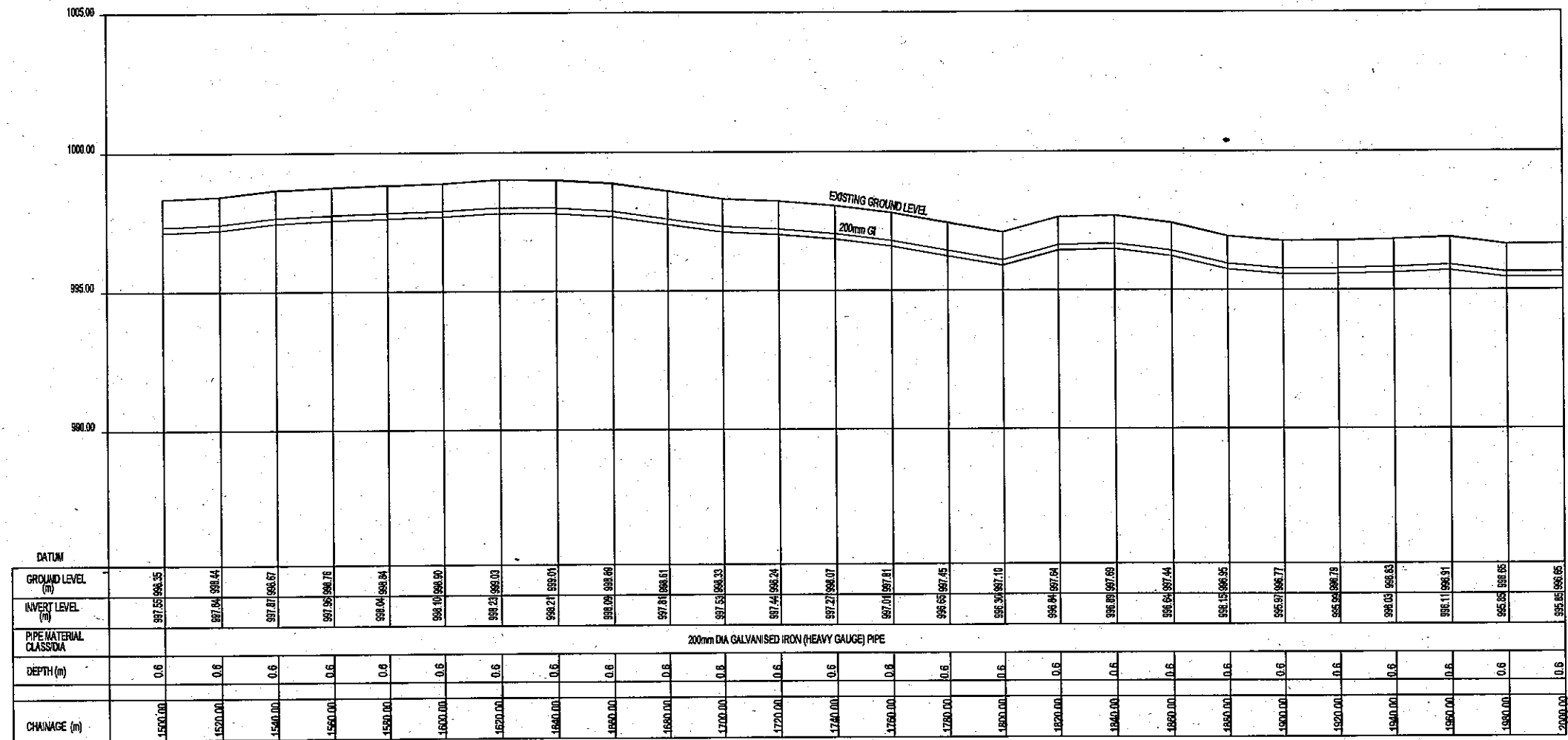
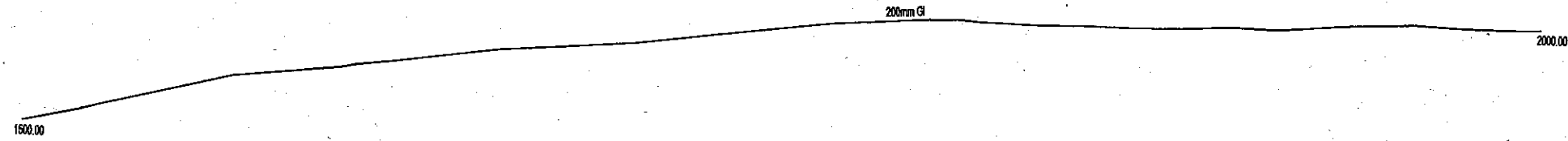
JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

NIPPON KOEI CO., LTD.

DRAWING No:
D-12

TITLE:
ンゴンベ送水管 (3/5)



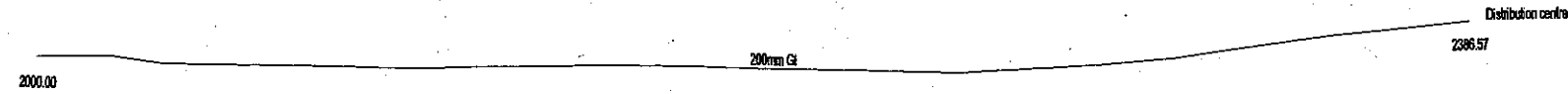
LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

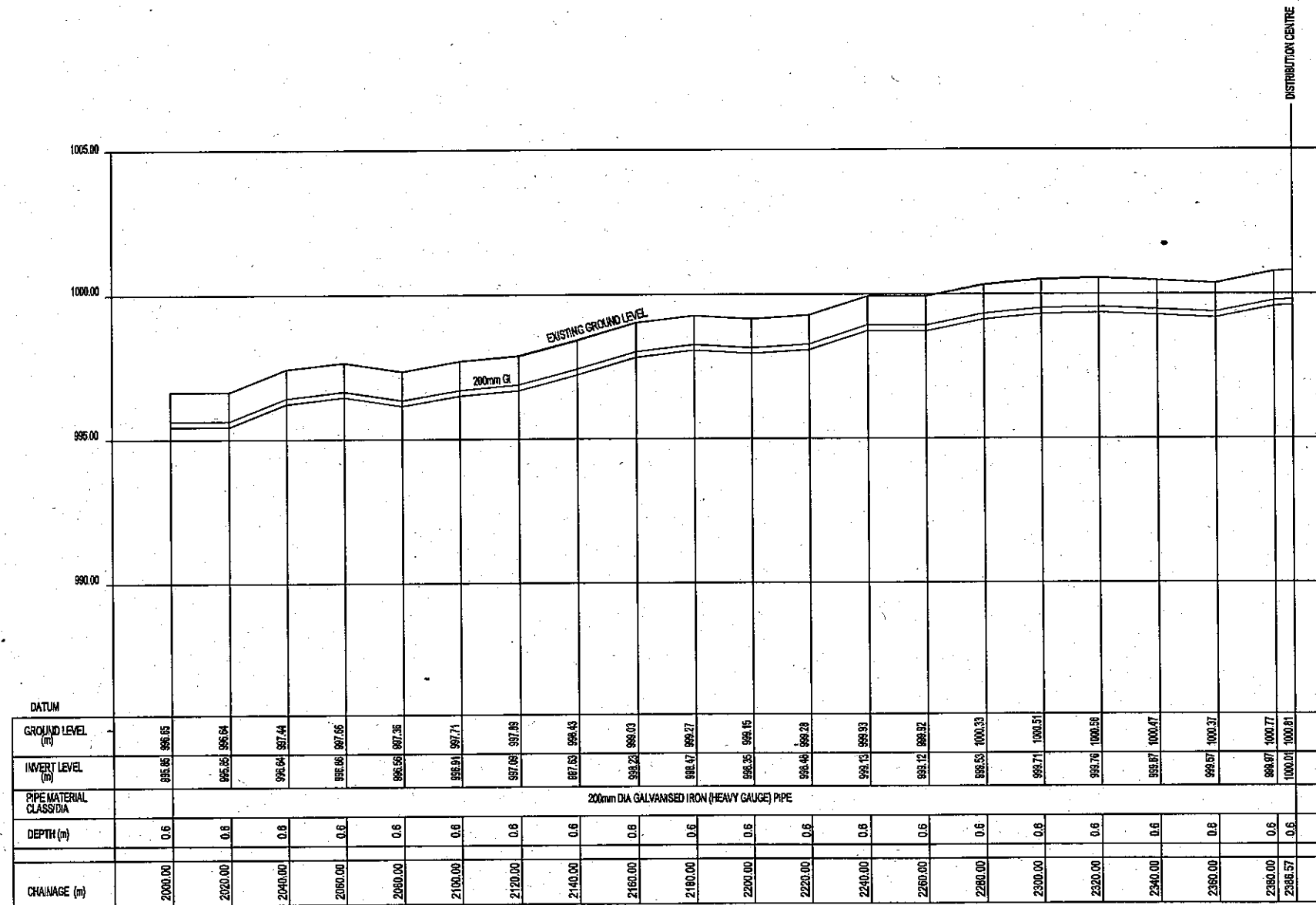
NIPPON KOEI CO., LTD.

DRAWING No:
D-13

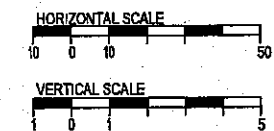
TITLE:
ンゴンベ送水管 (4/5)



LAYOUT PLAN



LONGITUDINAL SECTION OF RISING MAIN



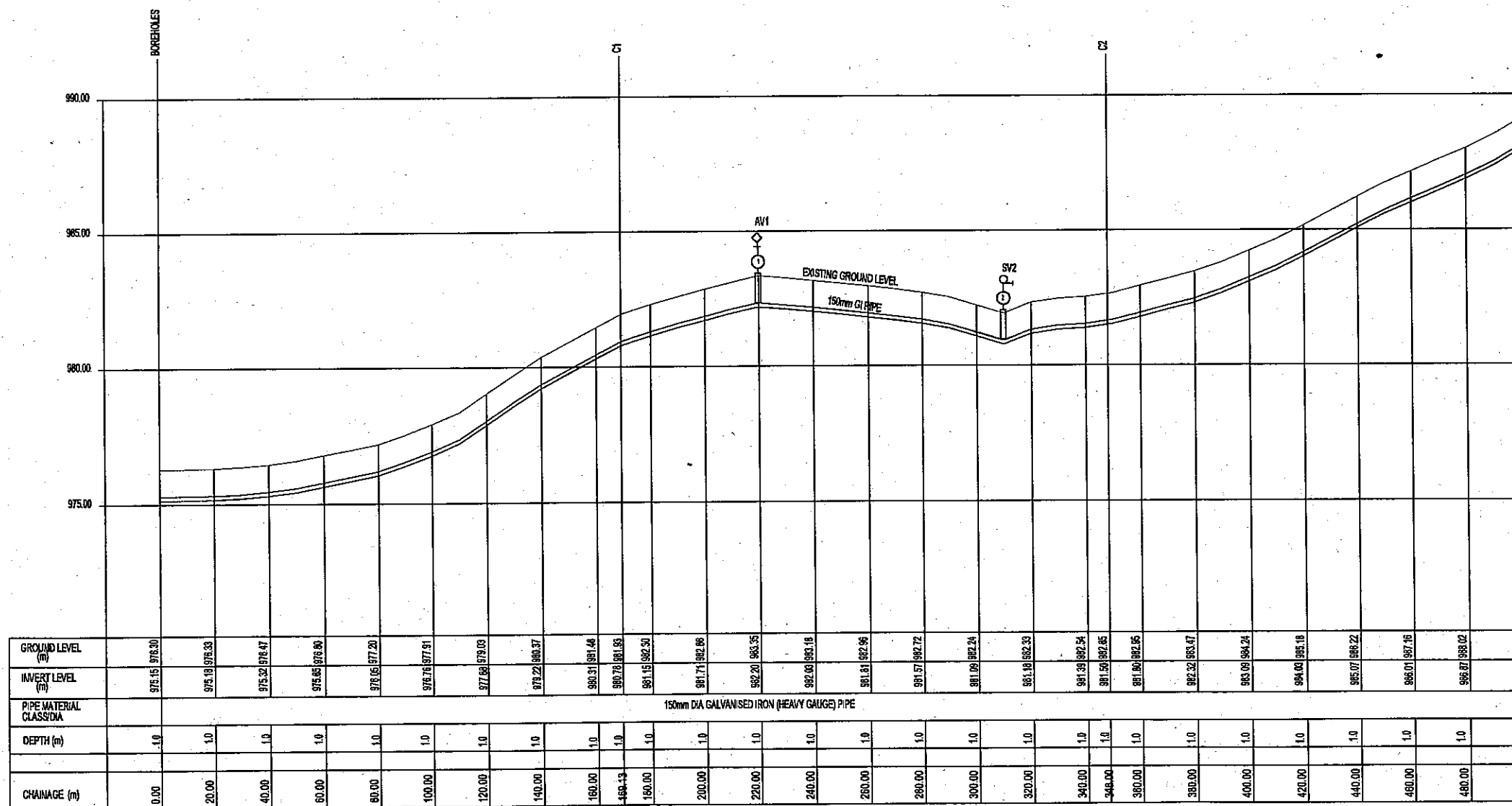
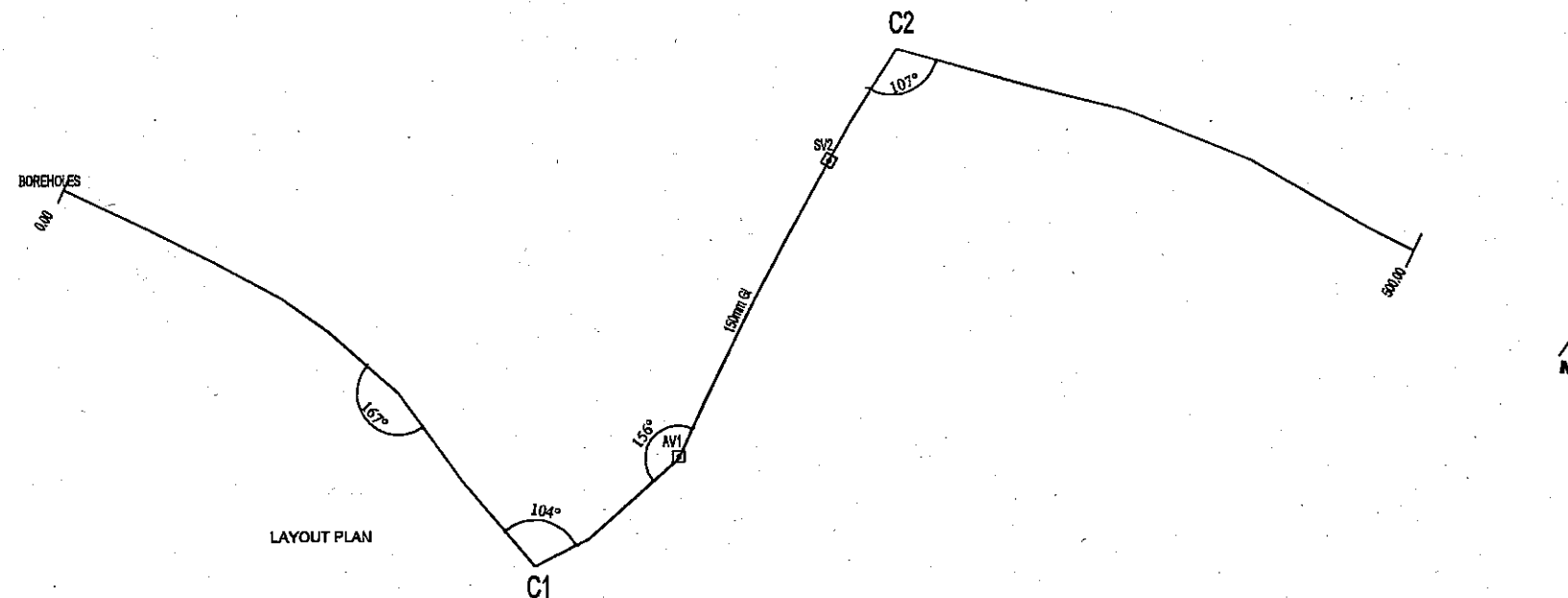
LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

NIPPON KOEI CO., LTD.

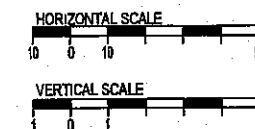
DRAWING No:
D-14

TITLE:
ンゴンベ送水管 (5/5)

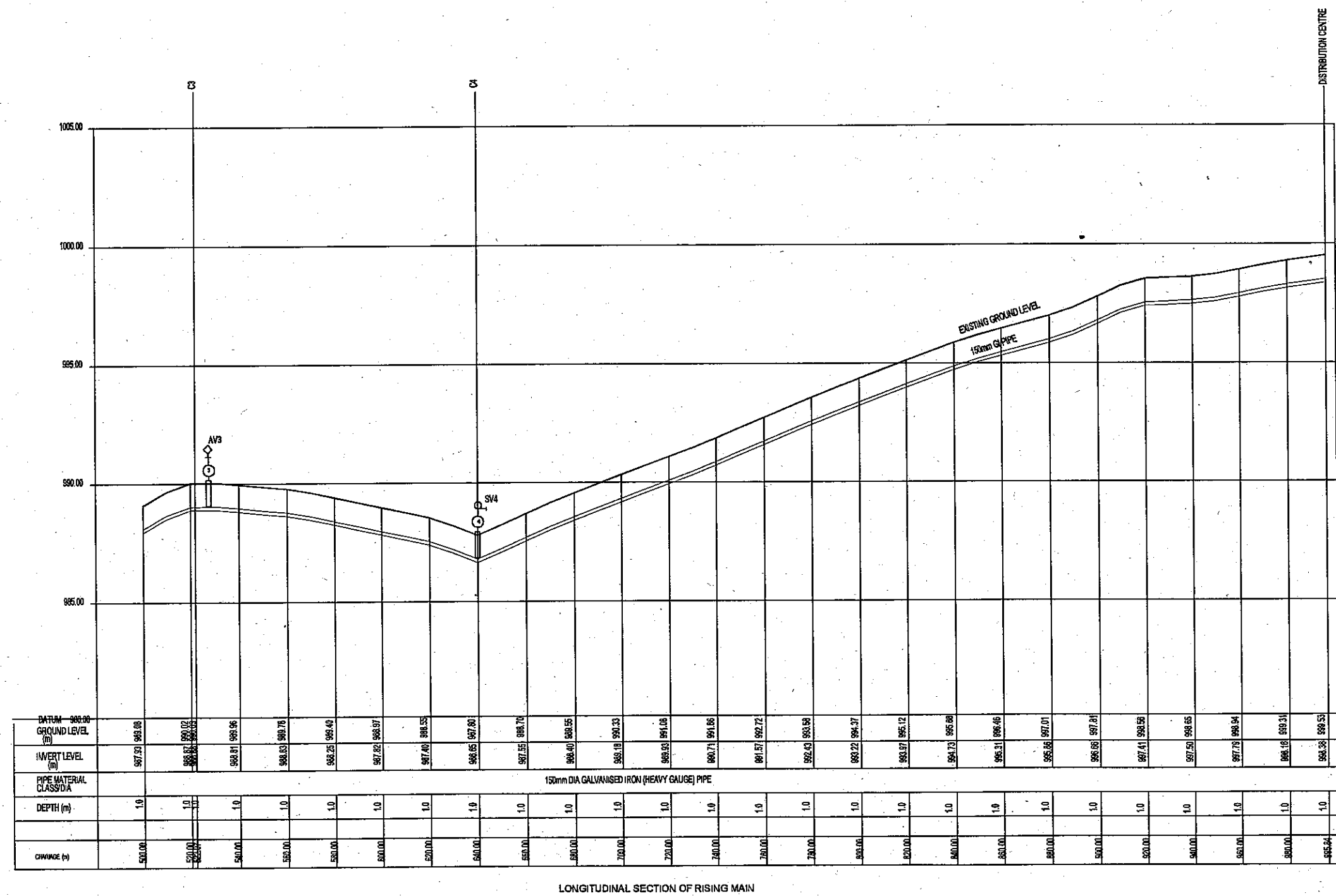


LEGEND

C1	CORNER/CHAMBER
SV	SCOUR VALVE
AV	AIR VALVE
1	CHAMBER NUMBER



LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF UNPLANNED URBAN SETTLEMENTS IN LUSAKA	JAPAN INTERNATIONAL COOPERATION AGENCY	NIPPON KOEI CO., LTD.	DRAWING No: D-15
	MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA		TITLE: カリキリキ送水管 (1/2)



CHANCE (ft)	DEPTH (m)	PIPE MATERIAL CLASS'D	INVERT LEVEL (m)	GROUND LEVEL (m)	DATUM - 900.00
500.00	1.0	150mm DIA GALVANISED IRON (HEAVY GAUGE) PIPE	997.91	998.08	
520.00	1.0		998.81	999.02	
540.00	1.0		999.81	999.96	
560.00	1.0		999.83	999.78	
580.00	1.0		999.25	999.49	
600.00	1.0		997.82	998.97	
620.00	1.0		997.40	998.55	
640.00	1.0		996.85	997.80	
660.00	1.0		997.55	998.70	
680.00	1.0		996.40	998.55	
700.00	1.0		998.18	999.33	
720.00	1.0		998.93	999.08	
740.00	1.0		998.71	999.86	
760.00	1.0		999.57	999.72	
780.00	1.0		999.43	999.68	
800.00	1.0		999.22	999.37	
820.00	1.0	999.97	999.12		
840.00	1.0	999.73	999.88		
860.00	1.0	999.51	999.66		
880.00	1.0	999.68	997.01		
900.00	1.0	999.68	997.81		
920.00	1.0	997.41	998.88		
940.00	1.0	997.50	998.65		
960.00	1.0	997.73	998.94		
980.00	1.0	998.18	999.51		
995.64	1.0	998.38	999.53		

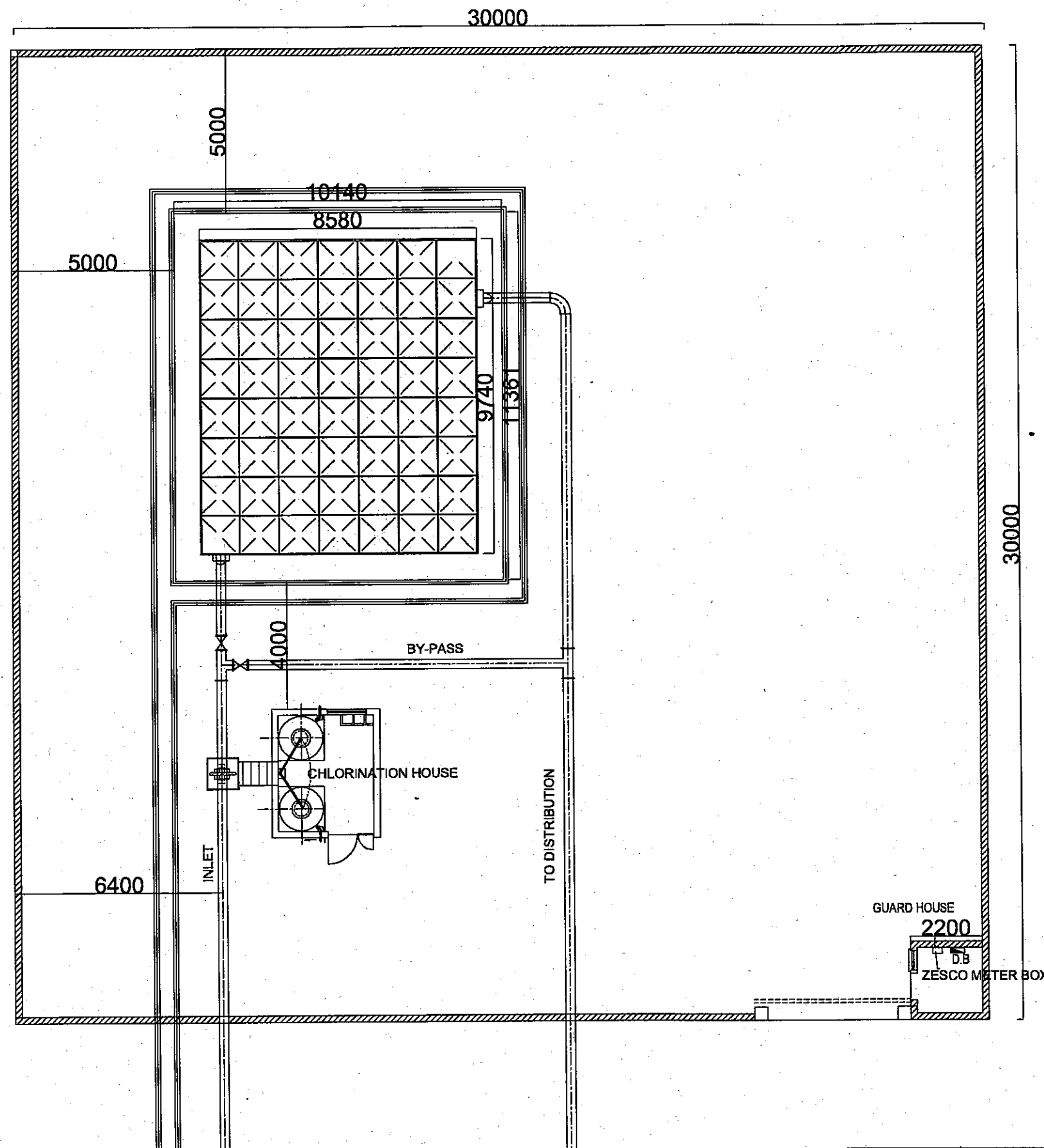
HORIZONTAL SCALE

10 0 10 50

VERTICAL SCALE

1 0 1 5

カリキリキ送水管 (2/2)



LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

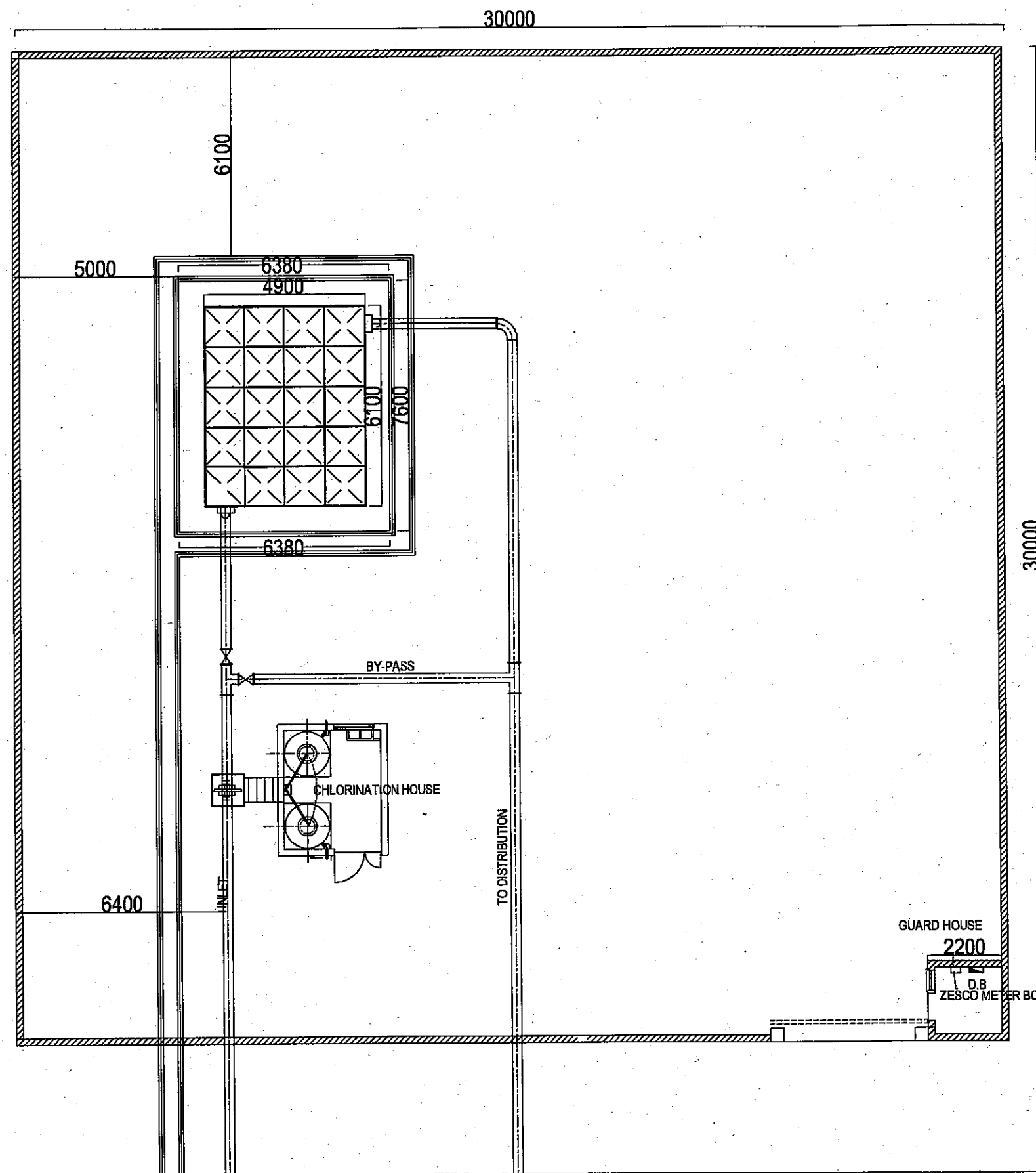
NIPPON KOEI CO., LTD.

DRAWING No:

D-17

TITLE:

配水池施設平面図
ンゴンベ地区



LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

NIPPON KOEI CO., LTD.

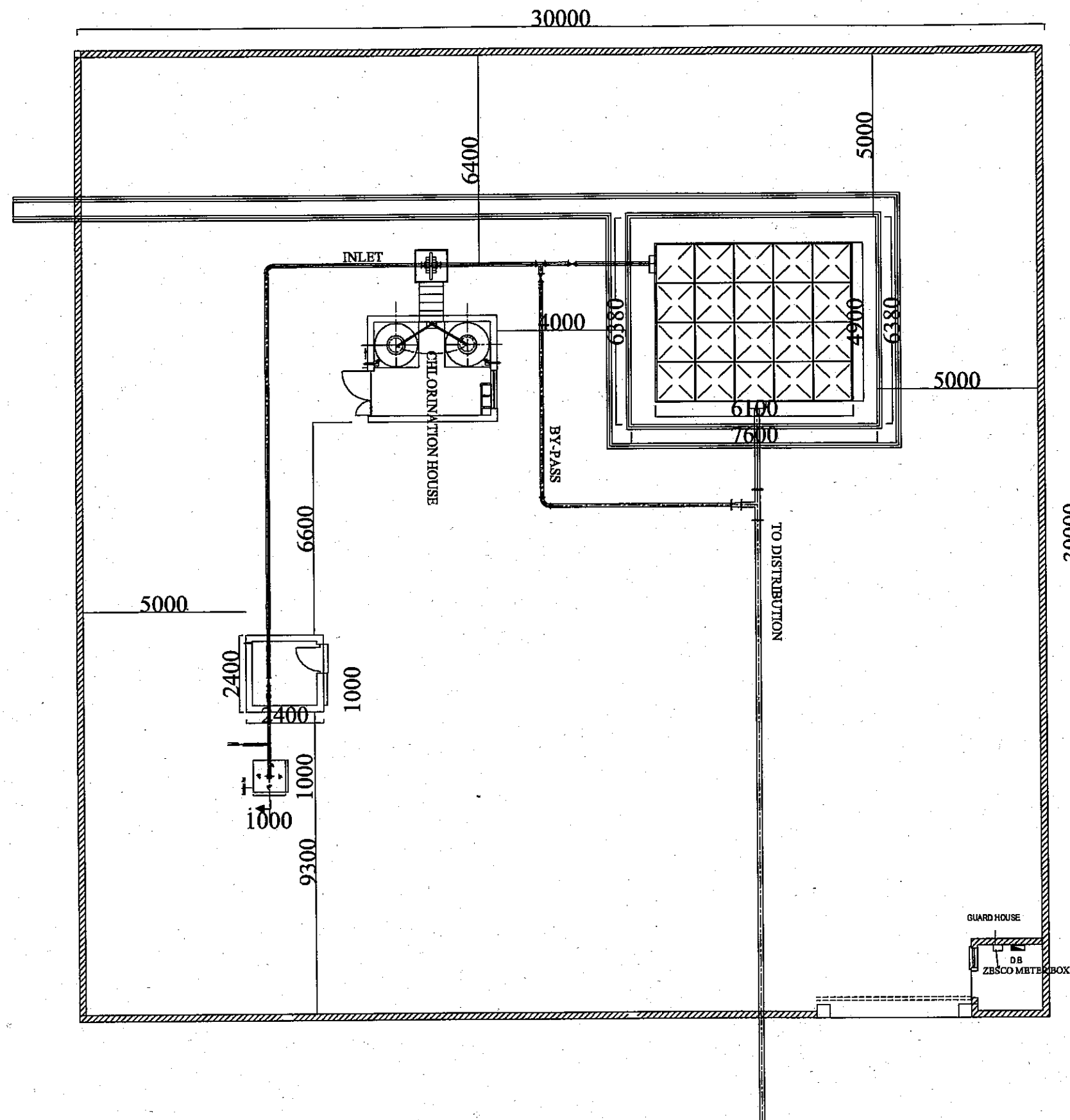
DRAWING No:

D-18

TITLE:

配水池施設平面図
カリキリキ地区

2/11



LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

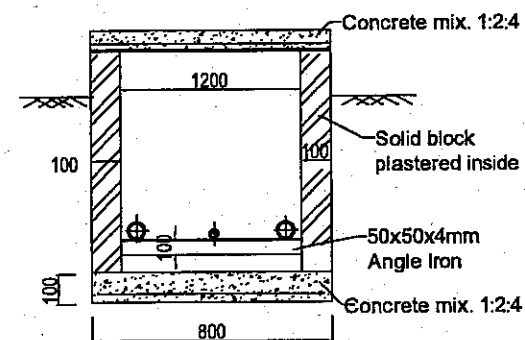
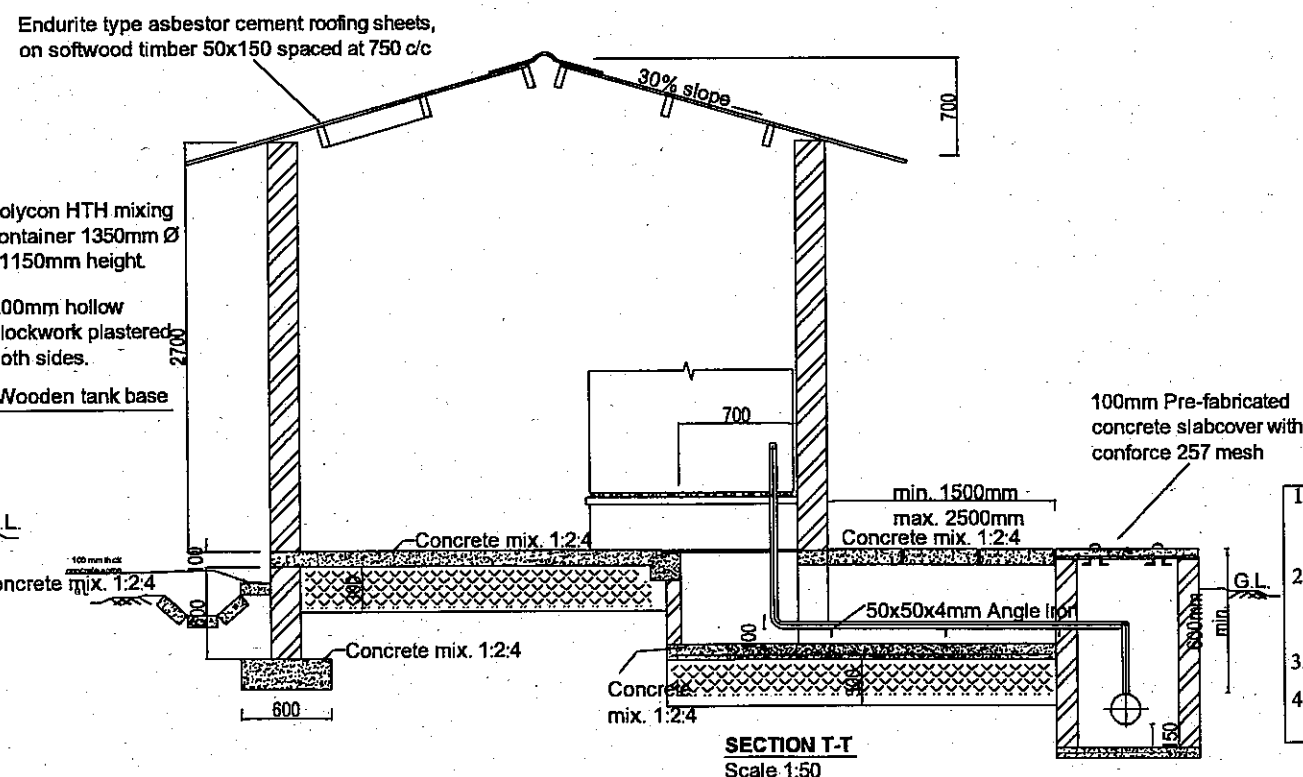
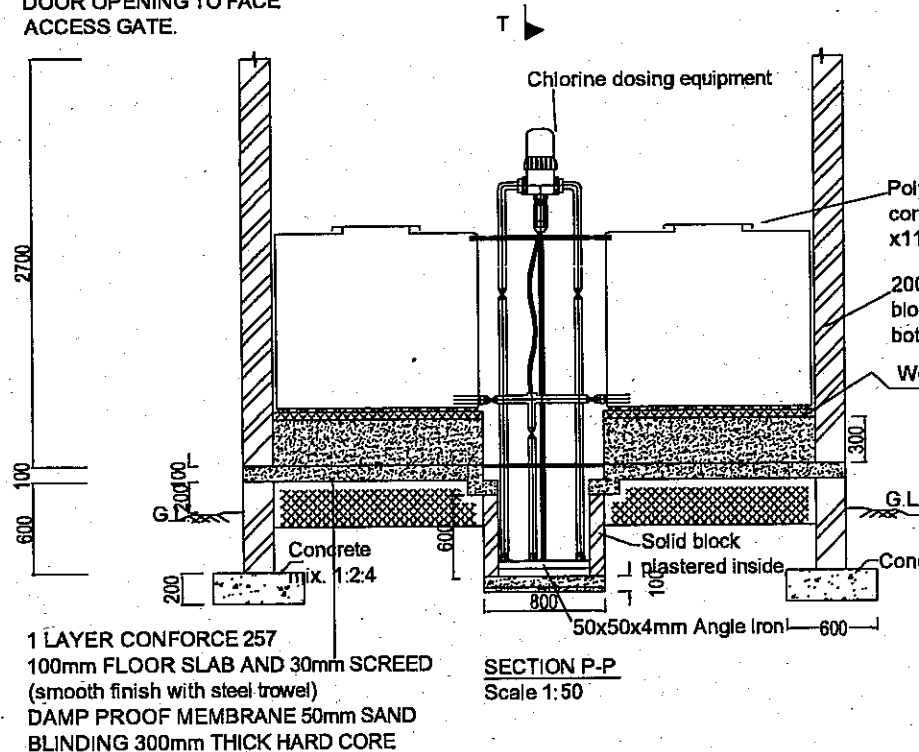
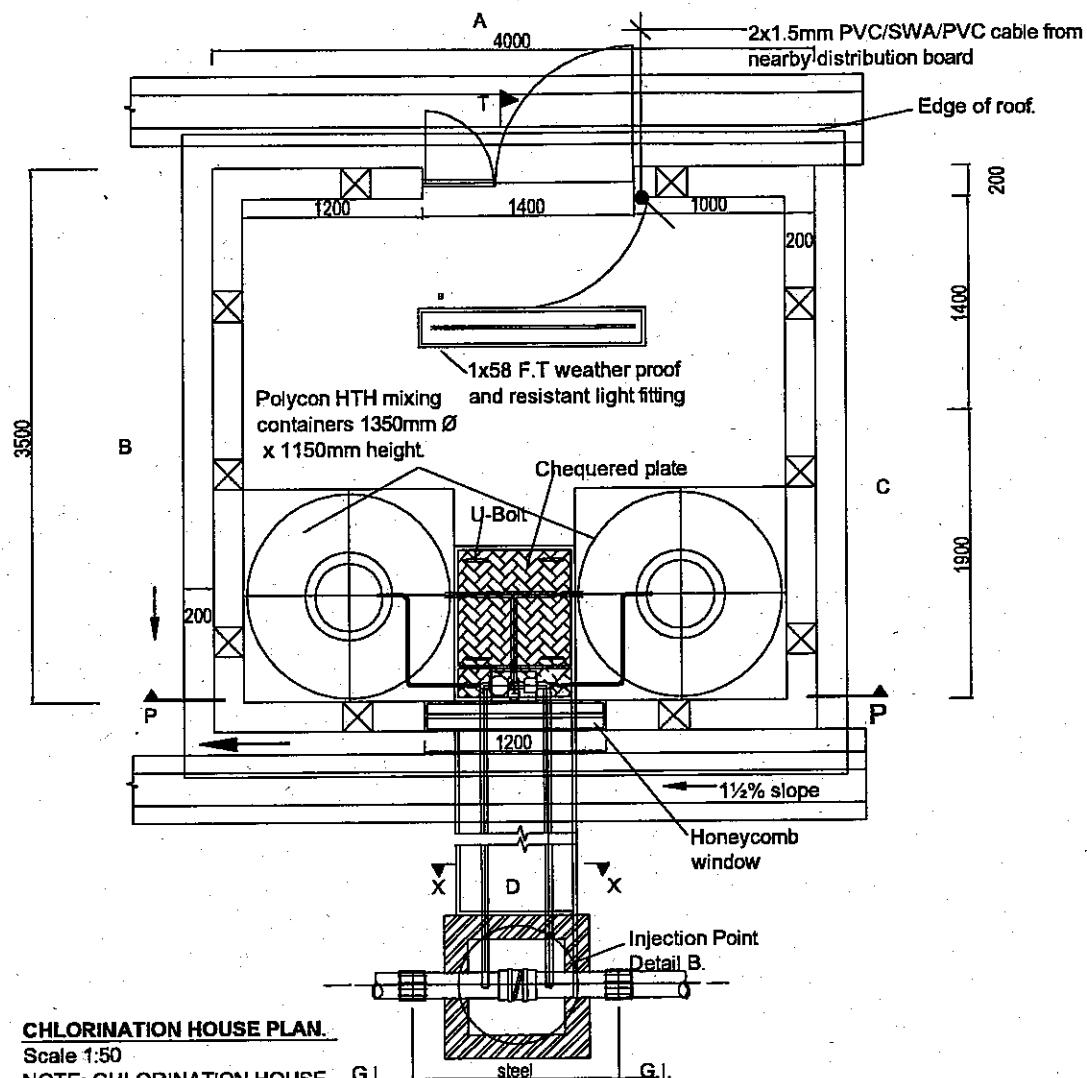
NIPPON KOEI CO., LTD.

DRAWING No:

D-19

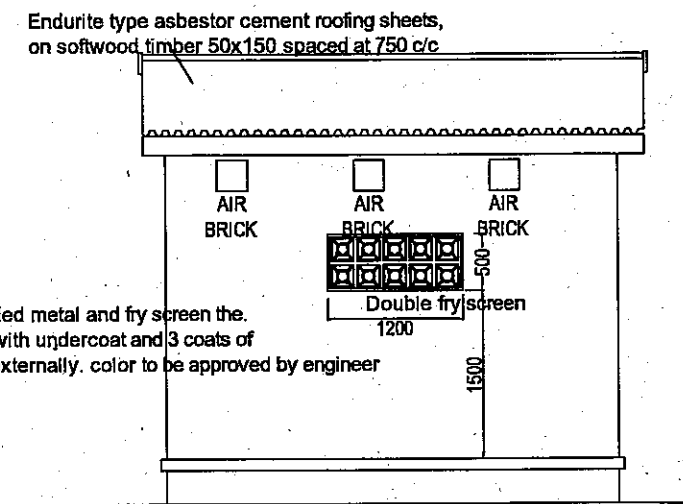
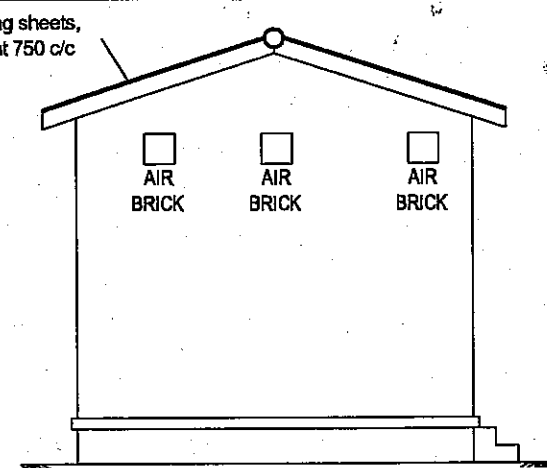
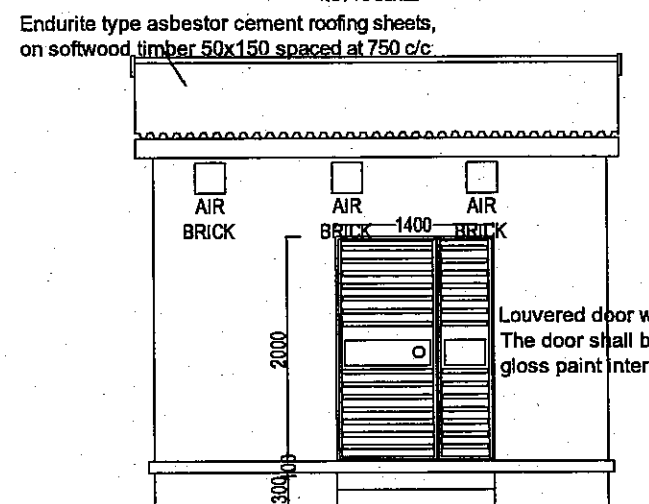
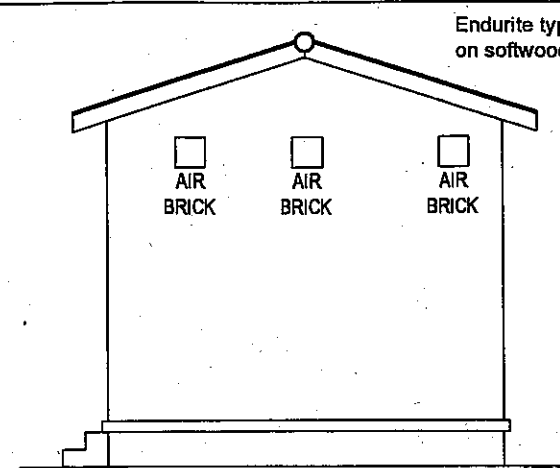
TITLE:

配水池施設平面図
フリーダム地区



NOTE:

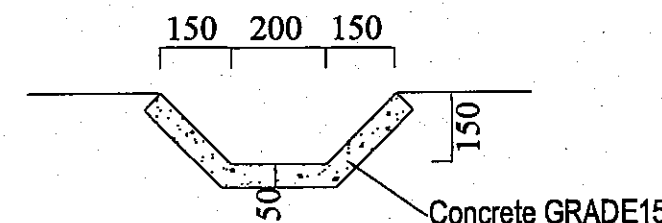
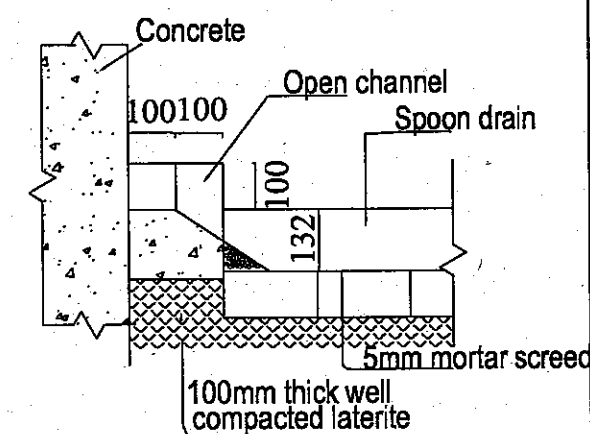
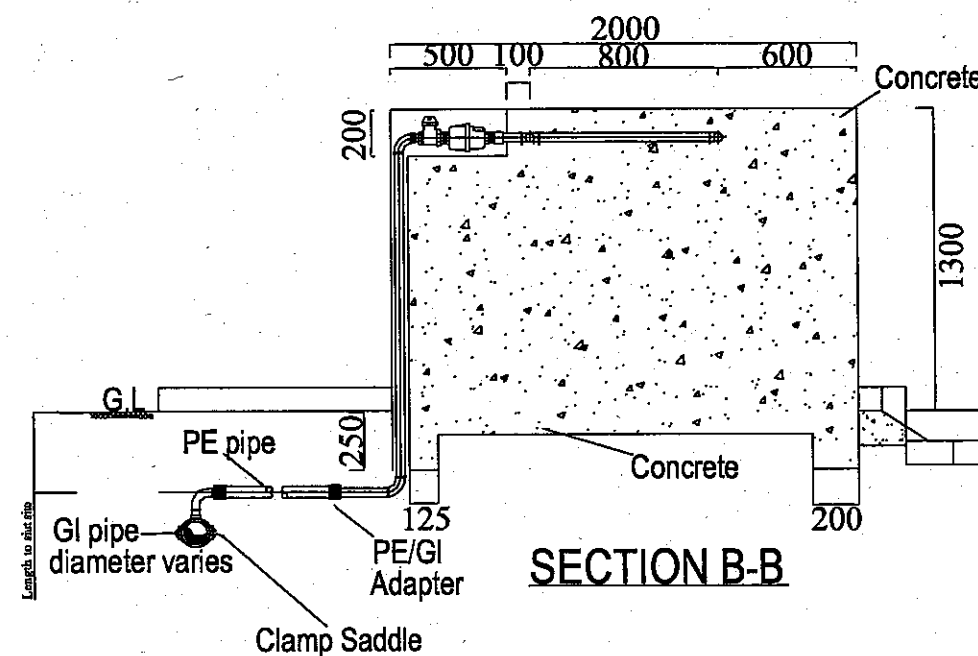
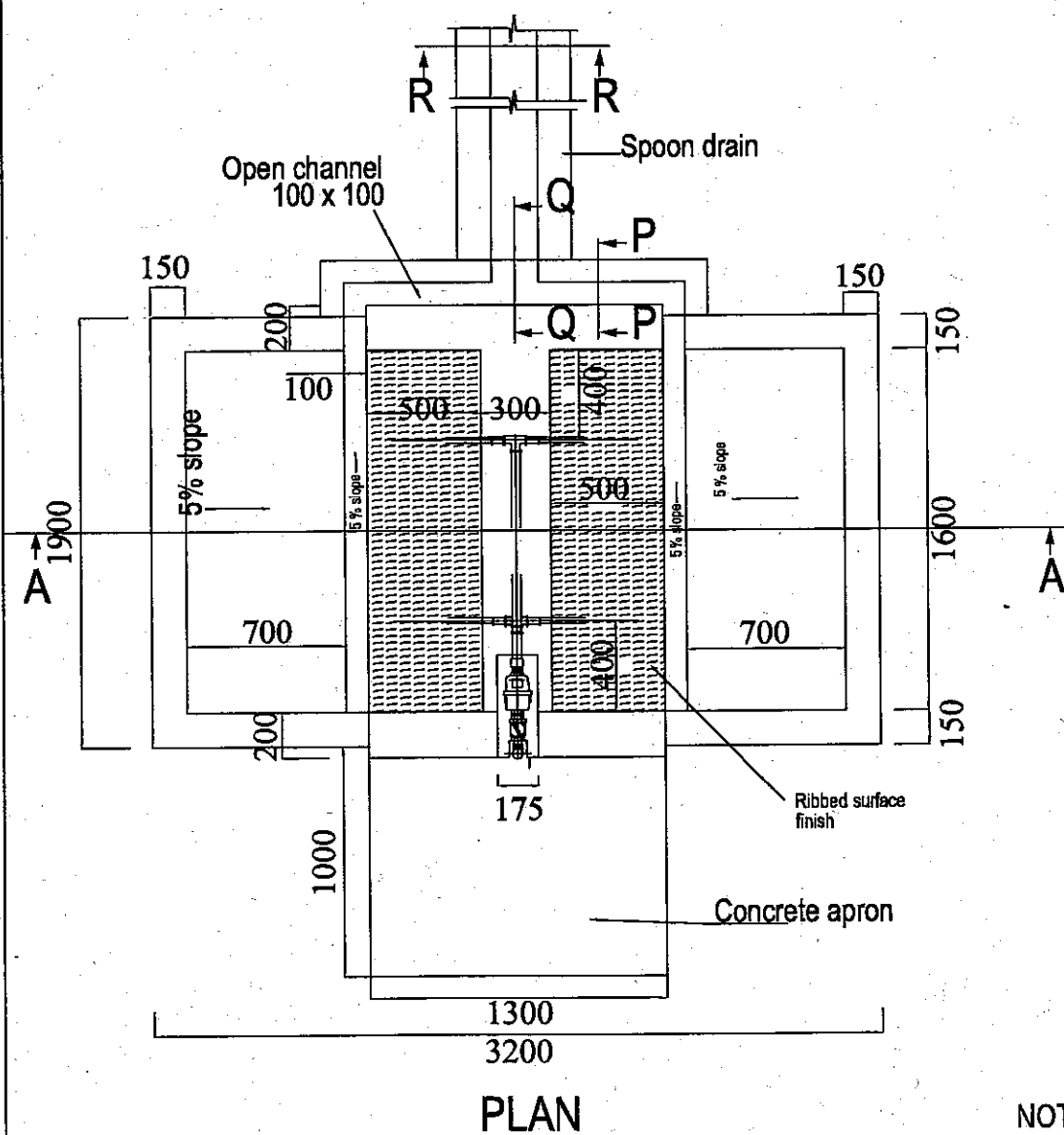
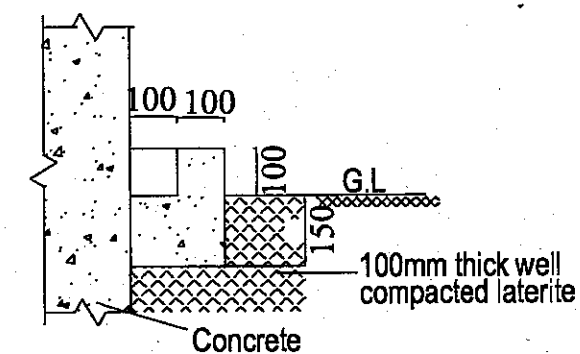
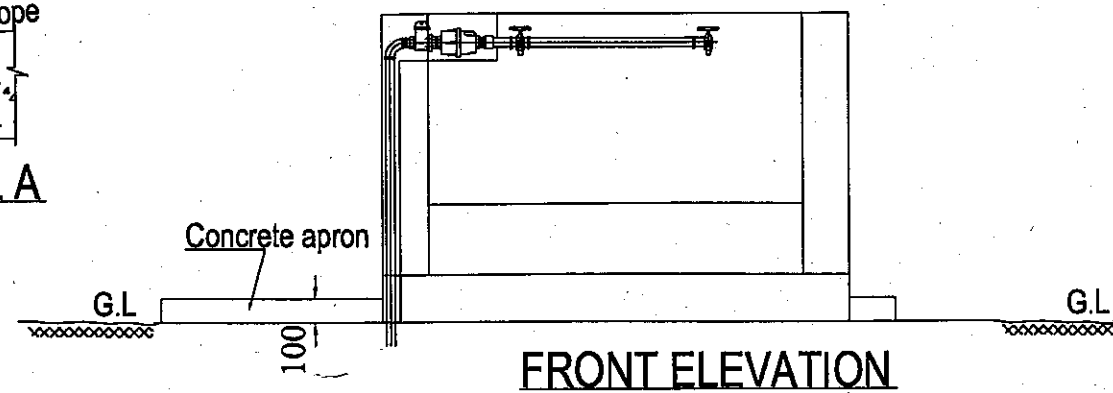
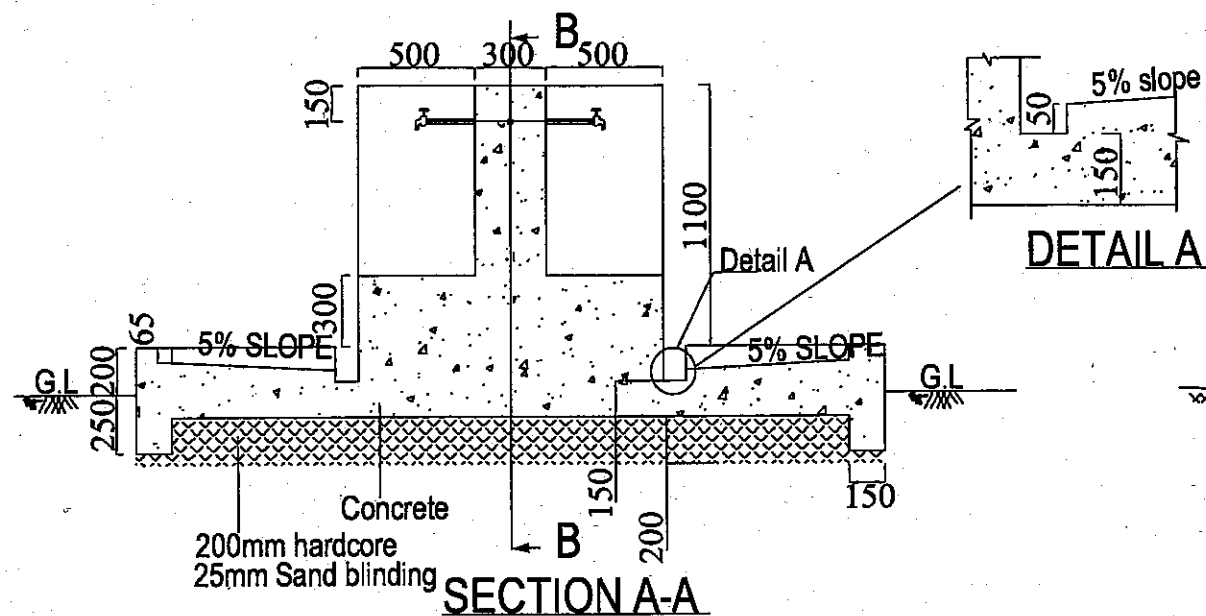
1. All accessories, e.g. door locks, padlock 82mm, priming and painting, plastering on walls to be included in the Contract and steel door etc to be provided in unit rates
2. External and internal walls up to a height of 1.5m shall be applied with undercoat and 3 coats of gloss paint and above that undercoat and 3 coats of PVA paint Colour to be approved by the Engineer.
3. 20mm cover to Reinforcement.
4. Concrete grade 20





高架水槽 (ソゴンベ:300m3)

MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA



NOTE: USE GRADE 30 CONCRETE.

LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY

NIPPON KOEI CO., LTD.

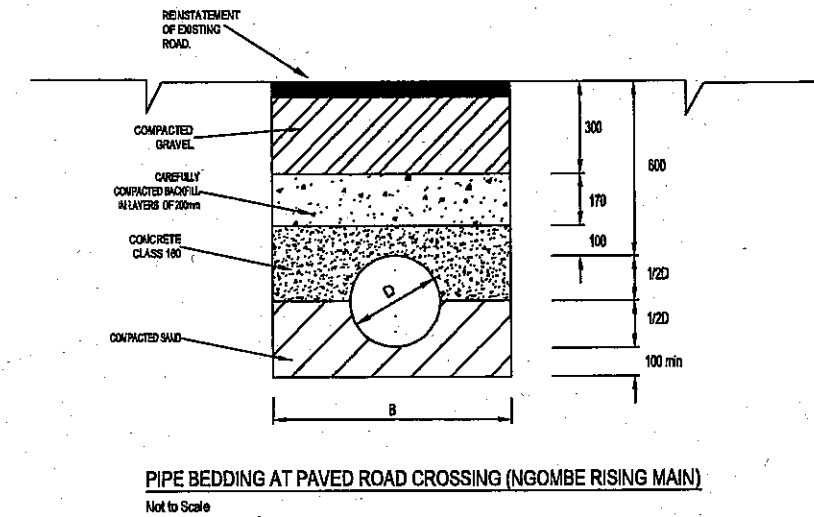
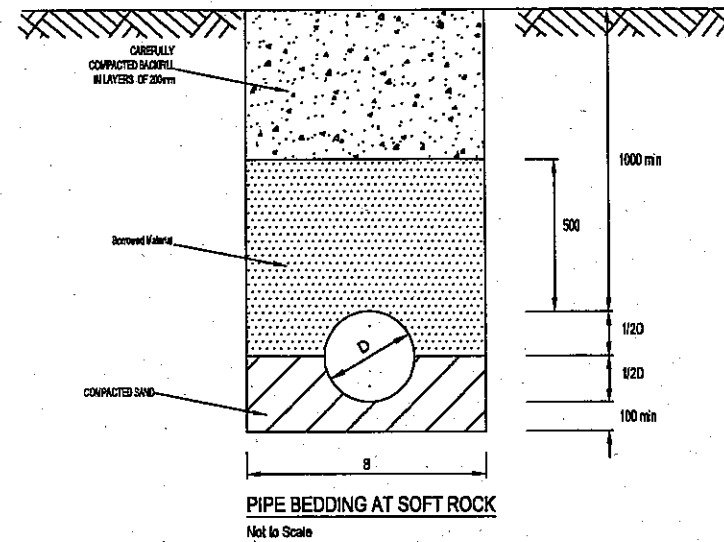
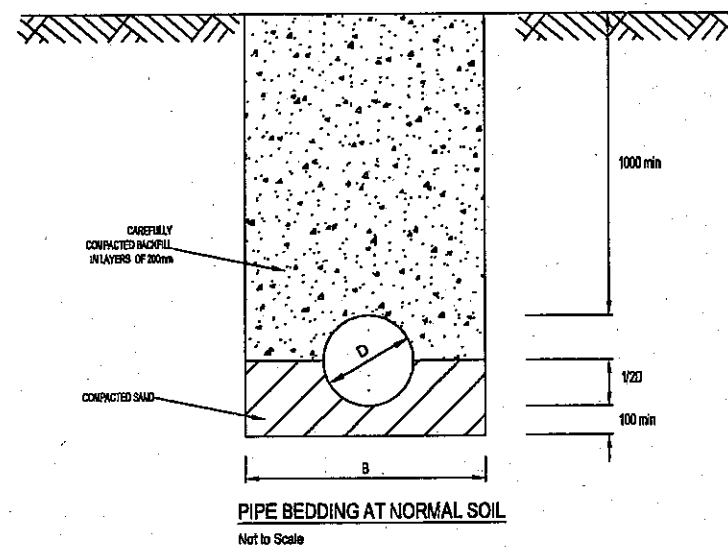
DRAWING No:

D-23

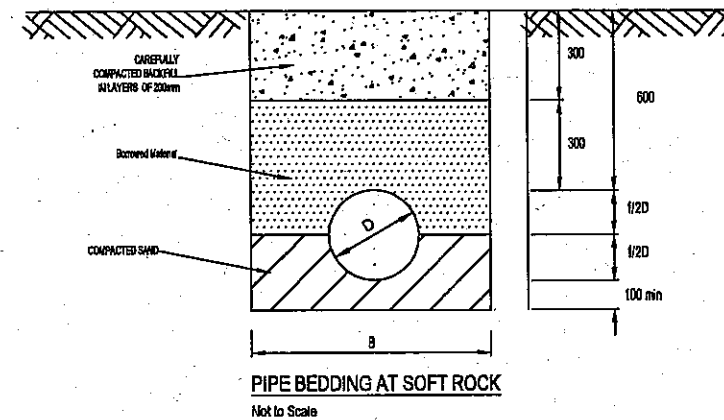
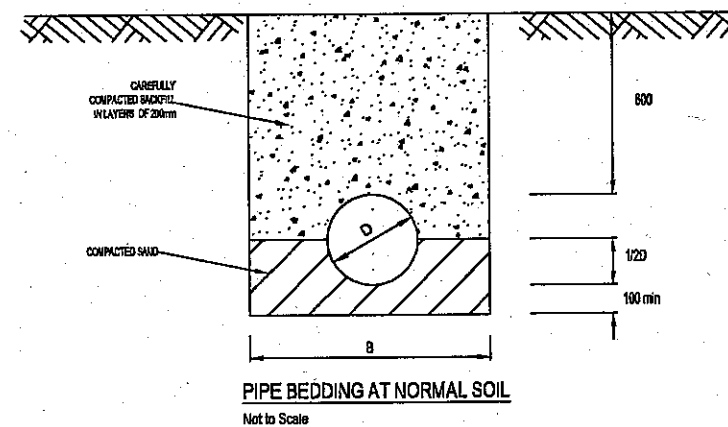
TITLE:

共同水栓標準図

MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

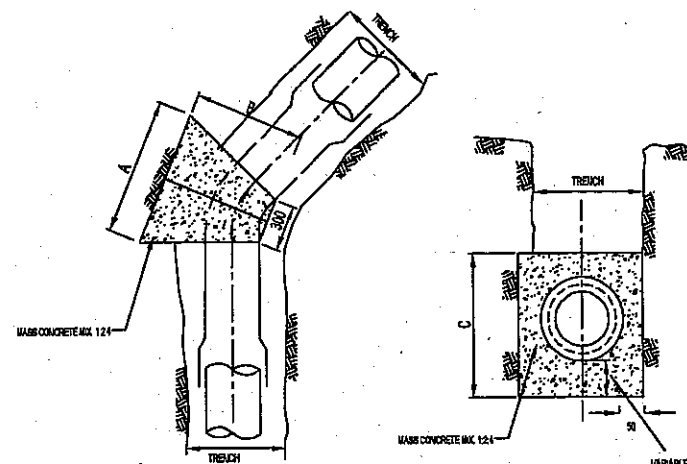
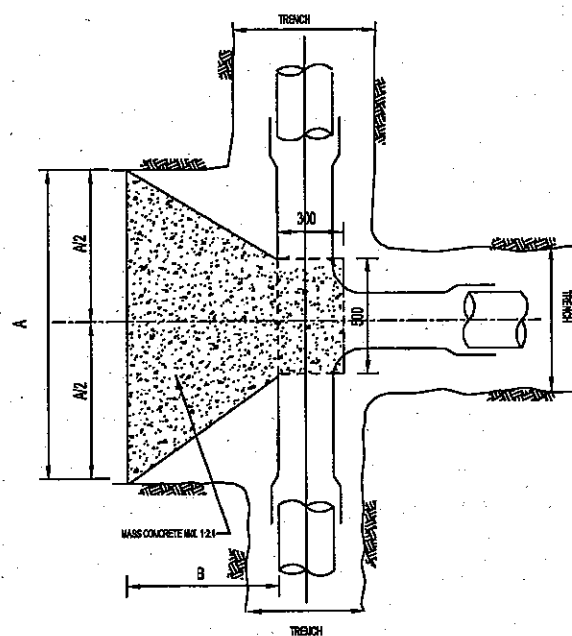


PIPE BEDDING for DIA. 100 to 300 mm



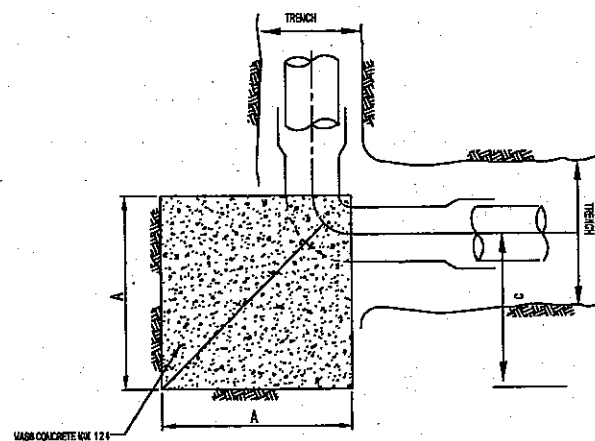
D (mm)	B (mm)
40	600
50	600
75	600
100	700
150	700
200	800
300	800

PIPE BEDDING for DIA. 40 to 75 mm and NGOMBE RISING MAIN

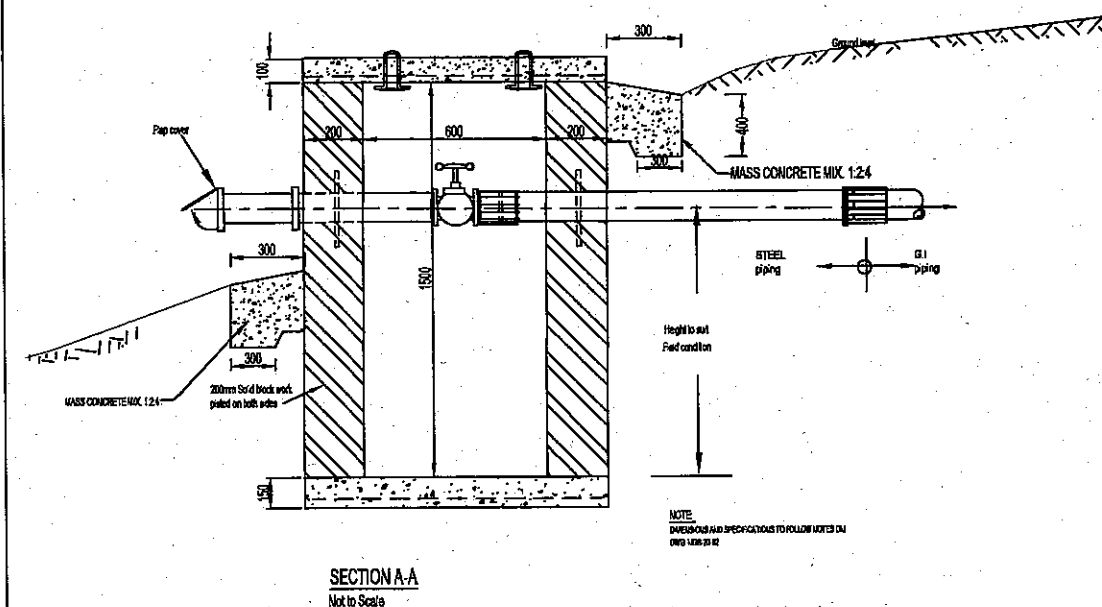
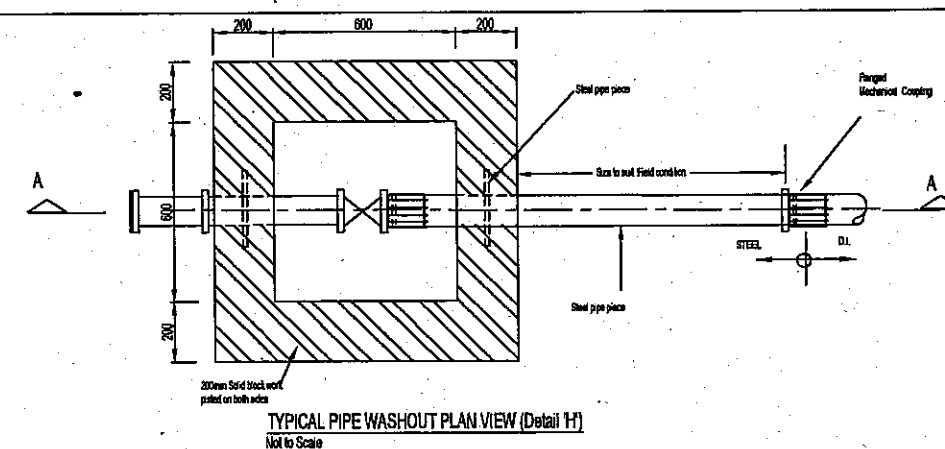


45° BEND, 22 1/2° BEND,
11 1/4° BEND
NOT TO SCALE

NOTE:
ALL THRUST BLOCK SHALL BE PLACED AGAINST UNDISTURBED SOIL.
JOINTS WITH THRUST BLOCK ARE SHOWN AS SOCKET AND SPIGOT. CONNECTION MAY CHANGE
BASED ON PIPE MATERIAL.



SITE FITTING		A (mm)	B (mm)	C (mm)
TEE	200-100	1 200	500	500
	<75	600	400	350
90 BEND	300-250	1 300	-	600
	200-100	800	-	500
	<75	400	-	350
45 22 1/2 11 1/4 BEND	300-250	1 000	700	600
	200-100	500	500	500
	<75	400	400	350



LIVING ENVIROMENTAL IMPROVEMENT PROJECT OF
UNPLANNED URBAN SETTLEMENTS IN LUSAKA

JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF LOCAL GOVERNMENT AND HOUSING (MLGH) ZAMBIA

NIPPON KOEI CO., LTD.

DRAWING No:
D-25

TITLE:
スラストブロック及び排水口

