



**REPUBLIC OF KENYA**



**WATER SECTOR TRUST FUND**



**COUNTY GOVERNMENT OF NYERI**



**GERMAN DEVELOPMENT BANK**



**NYERI WATER AND SANITATION COMPANY**

**CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS  
FOR COMMERCIAL FINANCING**

**VOLUME III: BOOK OF DRAWINGS**

**THE PROPOSED SEWER EXTENSION PROJECT IN KIAMWATHI-NGANGARITHI-RURINGU-SKUTA-MISHA AND THUNGUMA  
ESTATES, NYERI COUNTY  
LOT 1**



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**NOVEMBER 2025**

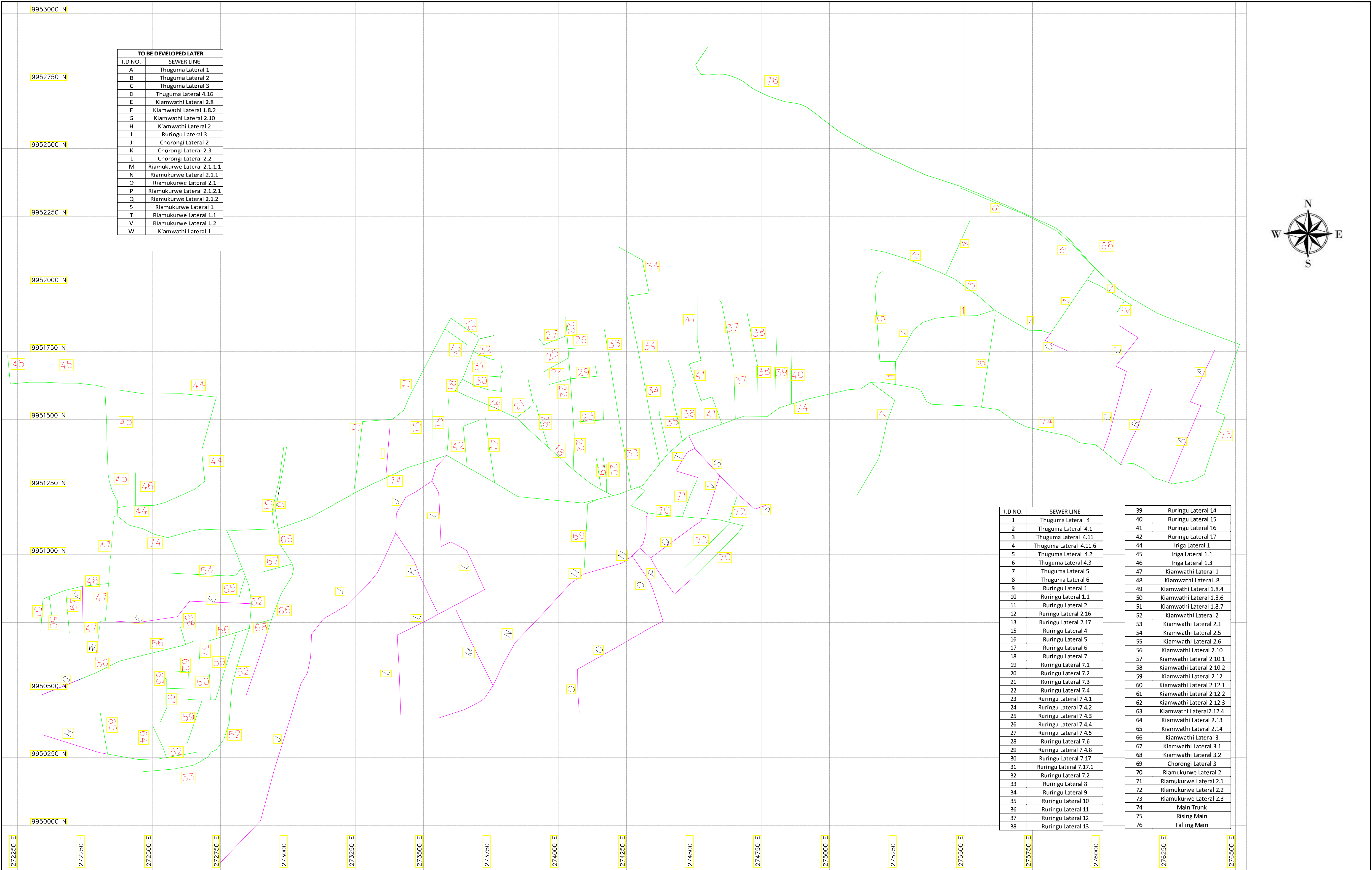
## CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING

BMZ ID: 2013 65 402 (WSTF – Phase III)

BMZ ID: 2016 65 124 (WSTF – Phase IV) LOT 1-(NYEWASCO)

## SCHEDULE OF DRAWINGS

S/No.	Description	Drawing No.	S/No.	Description	Drawing No.
1	Project Layout	WSTF/AoD/NYERI/LO/01	24	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/22
2	Control Points	WSTF/AoD/NYERI/CP/LO/01	25	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/23
3	Section plan layout	WSTF/AoD/NYERI/01	26	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/24
4	Section plan layout	WSTF/AoD/NYERI/02	24	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/22
5	Section plan layout	WSTF/AoD/NYERI/03	27	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/25
6	Section plan layout	WSTF/AoD/NYERI/04	28	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/26
7	Section plan layout	WSTF/AoD/NYERI/05	29	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/27
8	Section plan layout	WSTF/AoD/NYERI/06	30	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/28
9	Section plan layout	WSTF/AoD/NYERI/07	31	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/29
10	Section plan layout	WSTF/AoD/NYERI/08	32	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/30
11	Iriga Laterals plan and profile	WSTF/AoD/NYERI/09	33	Riamukurwe Laterals plan and profile	WSTF/AoD/NYERI/31
12	Iriga Laterals plan and profile	WSTF/AoD/NYERI/10	34	Thunguma Laterals plan and profile	WSTF/AoD/NYERI/32
13	Kiamwathi Laterals plan and profile	WSTF/AoD/NYERI/11	35	Thunguma Laterals plan and profile	WSTF/AoD/NYERI/33
14	Kiamwathi Laterals plan and profile	WSTF/AoD/NYERI/12	36	Thunguma Laterals plan and profile	WSTF/AoD/NYERI/34
15	Kiamwathi Laterals plan and profile	WSTF/AoD/NYERI/13	37	Thunguma Laterals plan and profile	WSTF/AoD/NYERI/35
16	Kiamwathi Laterals plan and profile	WSTF/AoD/NYERI/14	38	Chorongi Laterals plan and profile	WSTF/AoD/NYERI/36
17	Kiamwathi Laterals plan and profile	WSTF/AoD/NYERI/15	39	Trunk main plan and profile sheet 1 of 4	WSTF/AoD/NYERI/37
18	Kiamwathi Laterals plan and profile	WSTF/AoD/NYERI/16	40	Trunk main plan and profile sheet 2 of 4	WSTF/AoD/NYERI/38
19	Kiamwathi Laterals plan and profile	WSTF/AoD/NYERI/17	41	Trunk main plan and profile sheet 3 of 4	WSTF/AoD/NYERI/39
20	Kiamwathi Laterals plan and profile	WSTF/AoD/NYERI/18	42	Trunk main plan and profile sheet 4 of 4	WSTF/AoD/NYERI/40
21	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/19	43	Road crossing details	WSTF/AoD/NYERI/44
22	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/20	44	River crossings	WSTF/AoD/NYERI/45
23	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/21	45	River crossings	WSTF/AoD/NYERI/45A
24	Ruringu Laterals plan and profile	WSTF/AoD/NYERI/22	46	Typical Manhole and Inspection Box Details	WSTF/AoD/NYERI/060

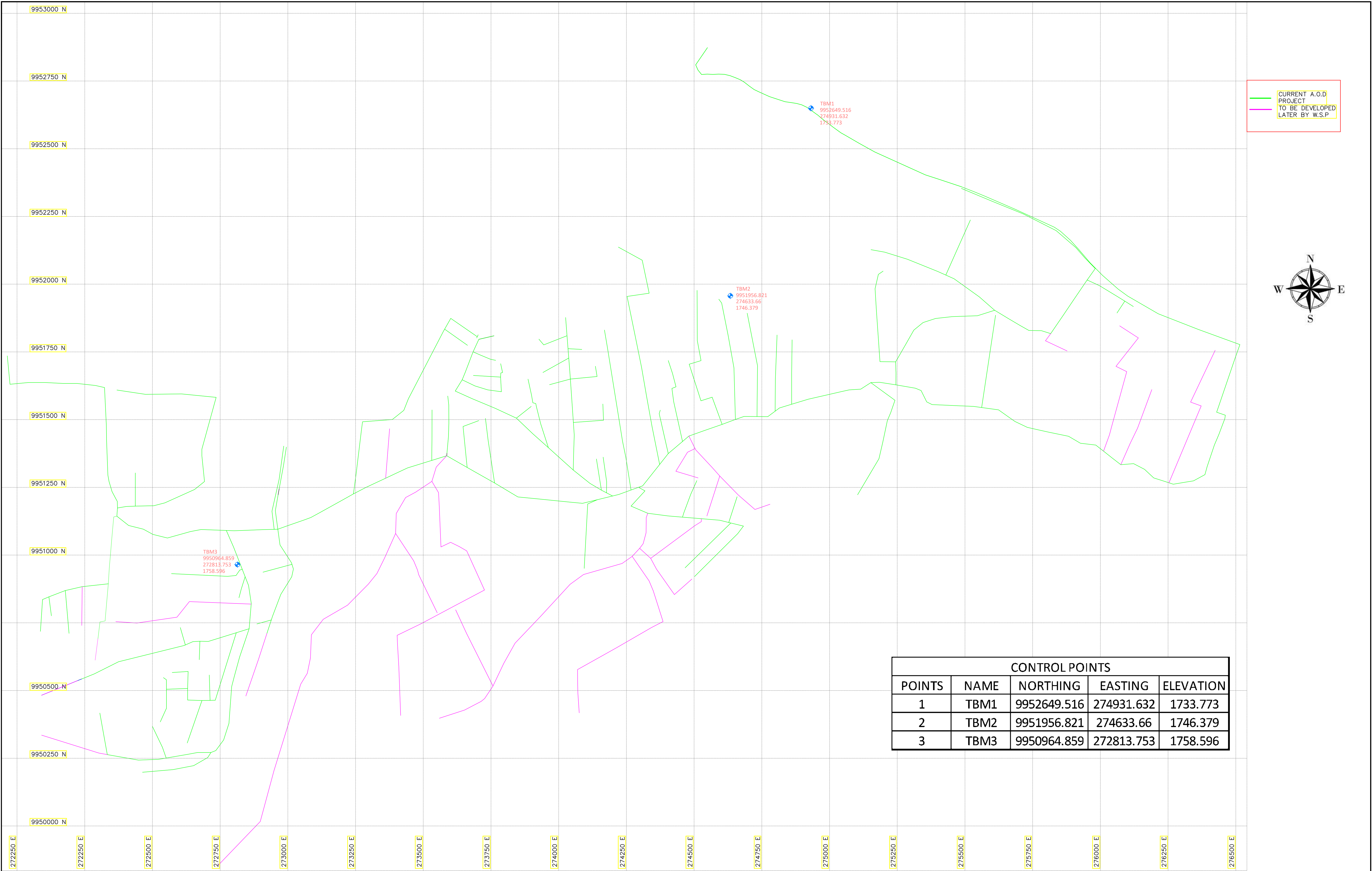


TO BE DEVELOPED LATER	
I.D NO.	SEWER LINE
A	Thuguma Lateral 1
B	Thuguma Lateral 2
C	Thuguma Lateral 3
D	Thuguma Lateral 4.16
E	Kiamwathi Lateral 2.8
F	Kiamwathi Lateral 1.8.2
G	Kiamwathi Lateral 2.10
H	Kiamwathi Lateral 2
I	Ruringu Lateral 3
J	Chorongi Lateral 2
K	Chorongi Lateral 2.3
L	Chorongi Lateral 2.2
M	Riamukurwe Lateral 2.1.1.1
N	Riamukurwe Lateral 2.1.1
O	Riamukurwe Lateral 2.1
P	Riamukurwe Lateral 2.1.2.1
Q	Riamukurwe Lateral 2.1.2
S	Riamukurwe Lateral 1
T	Riamukurwe Lateral 1.1
V	Riamukurwe Lateral 1.2
W	Kiamwathi Lateral 1





I.D NO.	SEWER LINE
1	Thuguma Lateral 4
2	Thuguma Lateral 4.1
3	Thuguma Lateral 4.11
4	Thuguma Lateral 4.11.6
5	Thuguma Lateral 4.2
6	Thuguma Lateral 4.3
7	Thuguma Lateral 5
8	Thuguma Lateral 6
9	Ruringu Lateral 1
10	Ruringu Lateral 1.1
11	Ruringu Lateral 2
12	Ruringu Lateral 2.16
13	Ruringu Lateral 2.17
15	Ruringu Lateral 4
16	Ruringu Lateral 5
17	Ruringu Lateral 6
18	Ruringu Lateral 7
19	Ruringu Lateral 7.1
20	Ruringu Lateral 7.2
21	Ruringu Lateral 7.3
22	Ruringu Lateral 7.4
23	Ruringu Lateral 7.4.1
24	Ruringu Lateral 7.4.2
25	Ruringu Lateral 7.4.3
26	Ruringu Lateral 7.4.4
27	Ruringu Lateral 7.4.5
28	Ruringu Lateral 7.6
29	Ruringu Lateral 7.4.8
30	Ruringu Lateral 7.17
31	Ruringu Lateral 7.17.1
32	Ruringu Lateral 7.2
33	Ruringu Lateral 8
34	Ruringu Lateral 9
35	Ruringu Lateral 10
36	Ruringu Lateral 11
37	Ruringu Lateral 12
38	Ruringu Lateral 13

39	Ruringu Lateral 14
40	Ruringu Lateral 15
41	Ruringu Lateral 16
42	Ruringu Lateral 17
44	Iriga Lateral 1
45	Iriga Lateral 1.1
46	Iriga Lateral 1.3
47	Kiamwathi Lateral 1
48	Kiamwathi Lateral .8
49	Kiamwathi Lateral 1.8.4
50	Kiamwathi Lateral 1.8.6
51	Kiamwathi Lateral 1.8.7
52	Kiamwathi Lateral 2
53	Kiamwathi Lateral 2.1
54	Kiamwathi Lateral 2.5
55	Kiamwathi Lateral 2.6
56	Kiamwathi Lateral 2.10
57	Kiamwathi Lateral 2.10.1
58	Kiamwathi Lateral 2.10.2
59	Kiamwathi Lateral 2.12
60	Kiamwathi Lateral 2.12.1
61	Kiamwathi Lateral 2.12.2
62	Kiamwathi Lateral 2.12.3
63	Kiamwathi Lateral 2.12.4
64	Kiamwathi Lateral 2.13
65	Kiamwathi Lateral 2.14
66	Kiamwathi Lateral 3
67	Kiamwathi Lateral 3.1
68	Kiamwathi Lateral 3.2
69	Chorongi Lateral 3
70	Riamukurwe Lateral 2
71	Riamukurwe Lateral 2.1
72	Riamukurwe Lateral 2.2
73	Riamukurwe Lateral 2.3
74	Main Trunk
75	Rising Main
76	Falling Main

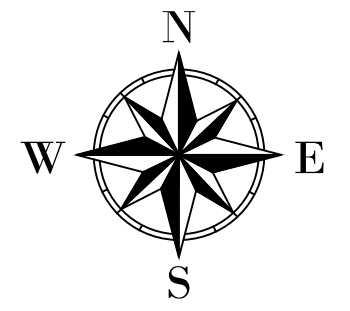








CONTROL POINTS				
POINTS	NAME	NORTHING	EASTING	ELEVATION
1	TBM1	9952649.516	274931.632	1733.773
2	TBM2	9951956.821	274633.66	1746.379
3	TBM3	9950964.859	272813.753	1758.596

<div>No</div> <div>1.</div> <div>2.</div> <div>3.</div> <div>4.</div>	Revisions	Checked By	Approved By	Date	<div>CLIENT:</div> <div></div> <div>Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA</div>	<div>EXECUTING AGENCY:</div> <div></div> <div>NYERI WATER &amp; SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri. Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke</div>	<div></div> <div>REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION</div>	<div>PROJECT:</div> <div>CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING</div>	<div>Designed By:</div> <div></div> <div>CAS CONSULTANTS LIMITED LE' MAC BUILDING, 1<sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke</div>	<div>Drawing Title:</div> <div>CONTROL POINTS</div>	Designed By : M.O.O
	Drawn By : W.M										
	Checked By : W.O.K										
	Approved By : S.M.M										
	Client Approval :										
Date : OCT 2024											
Drawing No : WSTF/AoD/NYERI/CP/LO/01											





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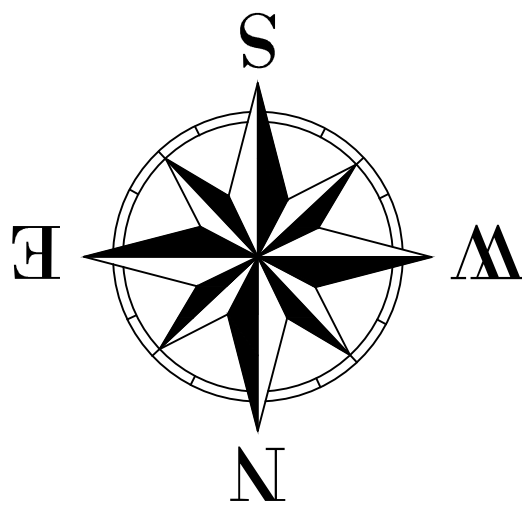
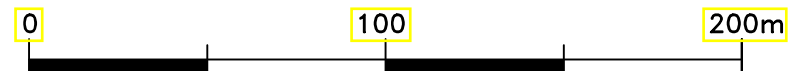
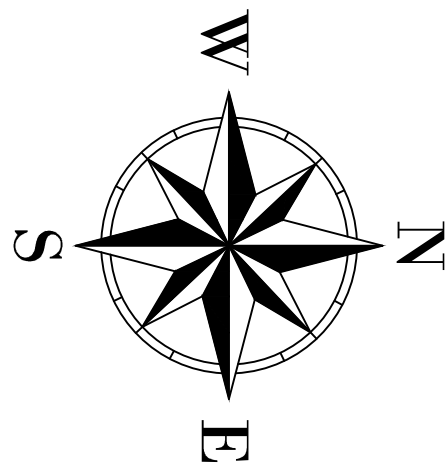
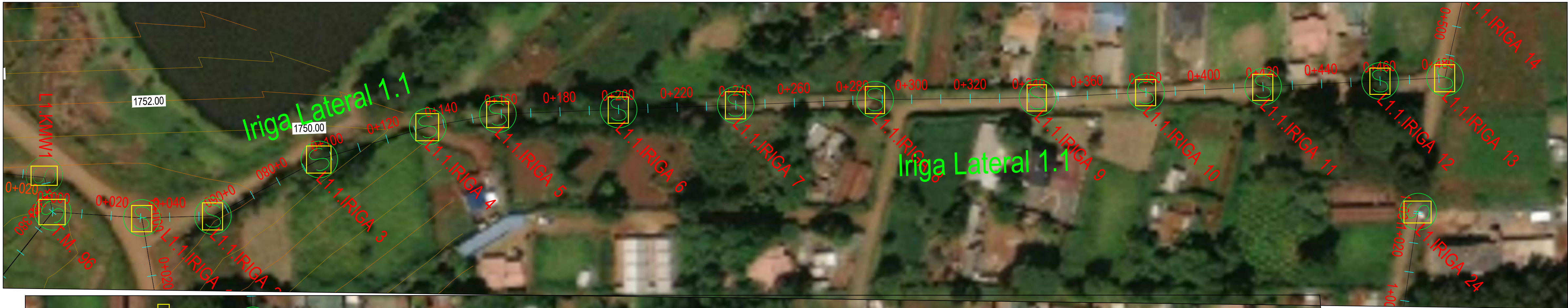
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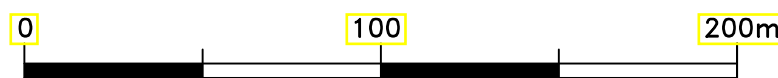
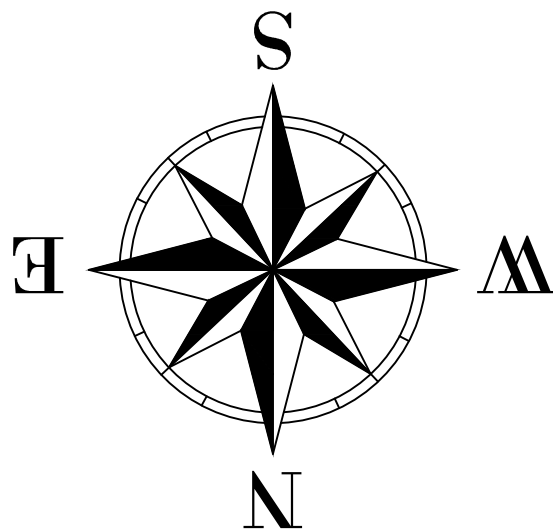
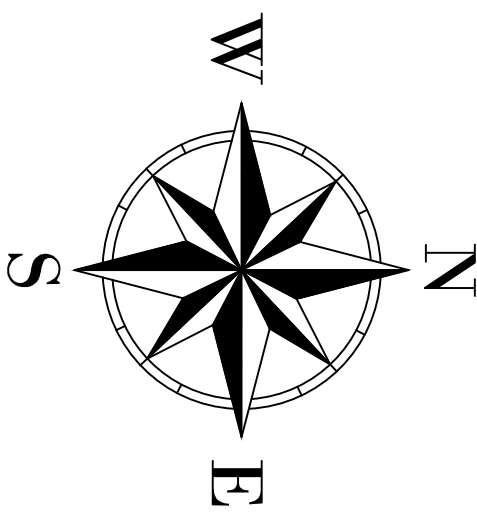
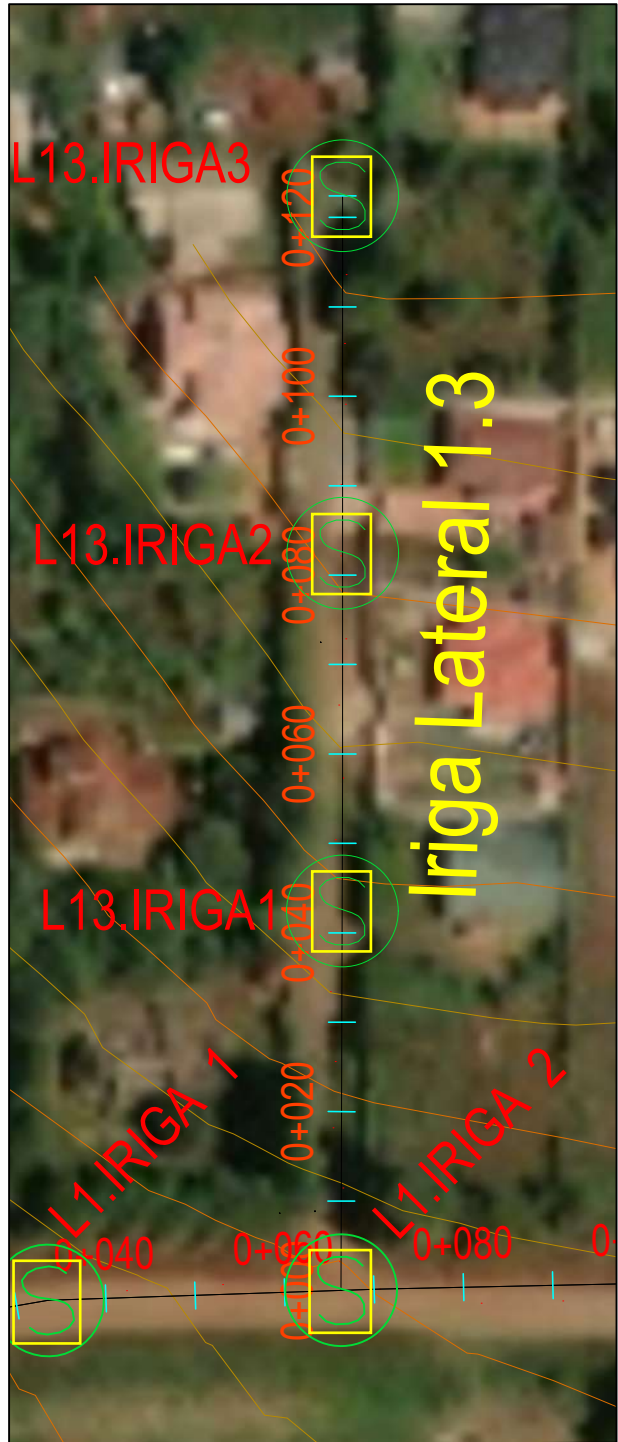
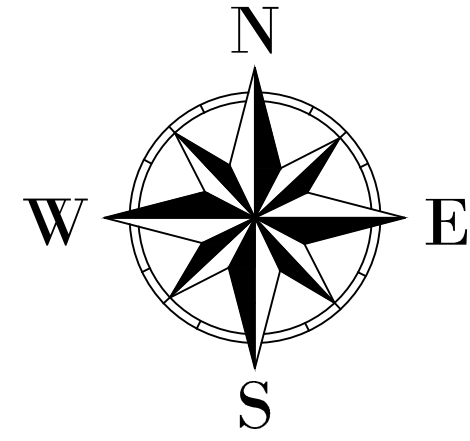




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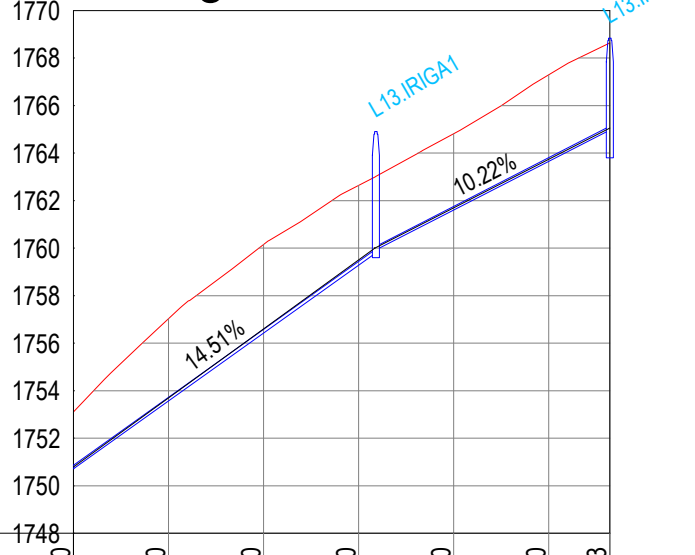
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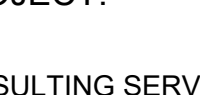



PLAN

Iriga Lateral 1.3



DISTANCE IN METERS DATUM (m)	0-400.00	0-420.00	0-440.00	0-460.00	0-480.00	0-500.00	0-512.83
GROUND LEVELS (m)	1751.11	1757.02	1760.15	1762.65	1764.82	1767.29	1768.64
INVERT LEVELS (m)	1750.80	1753.70	1756.60	1759.51	1761.70	1763.74	1765.64
DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)	-2.31	-3.32	-3.54	-3.14	-3.12	-3.55	-3.00
TYPE OF PIPE AND SIZE	200mm DWC HDPE Pipe						

No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:		PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE' MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>IRIGA LATERALS PLAN AND PROFILE</b>	Drawn By : E.I.
2.				Checked By : W.K							
3.				Approved By : S.M.M							
4.				Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/10							



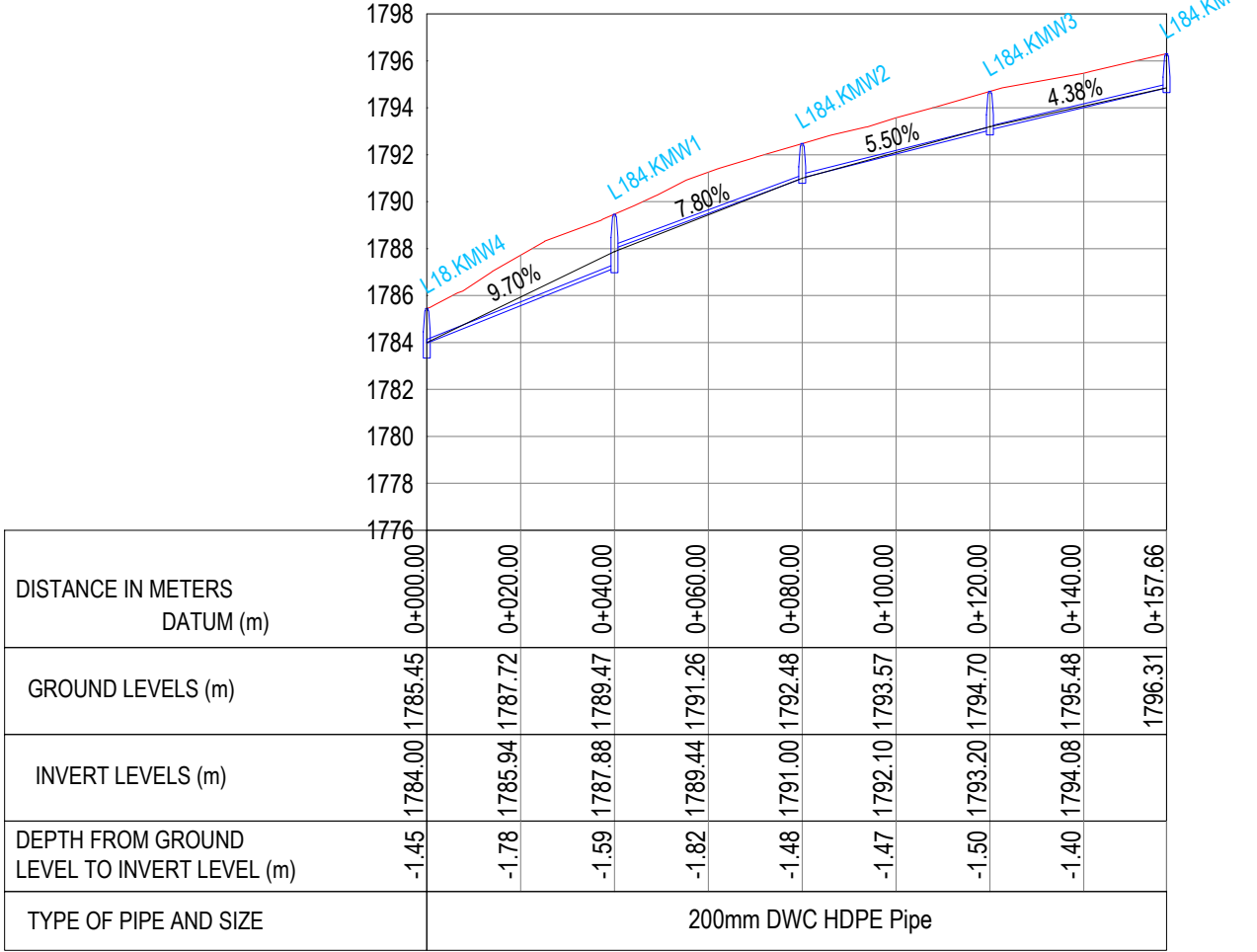




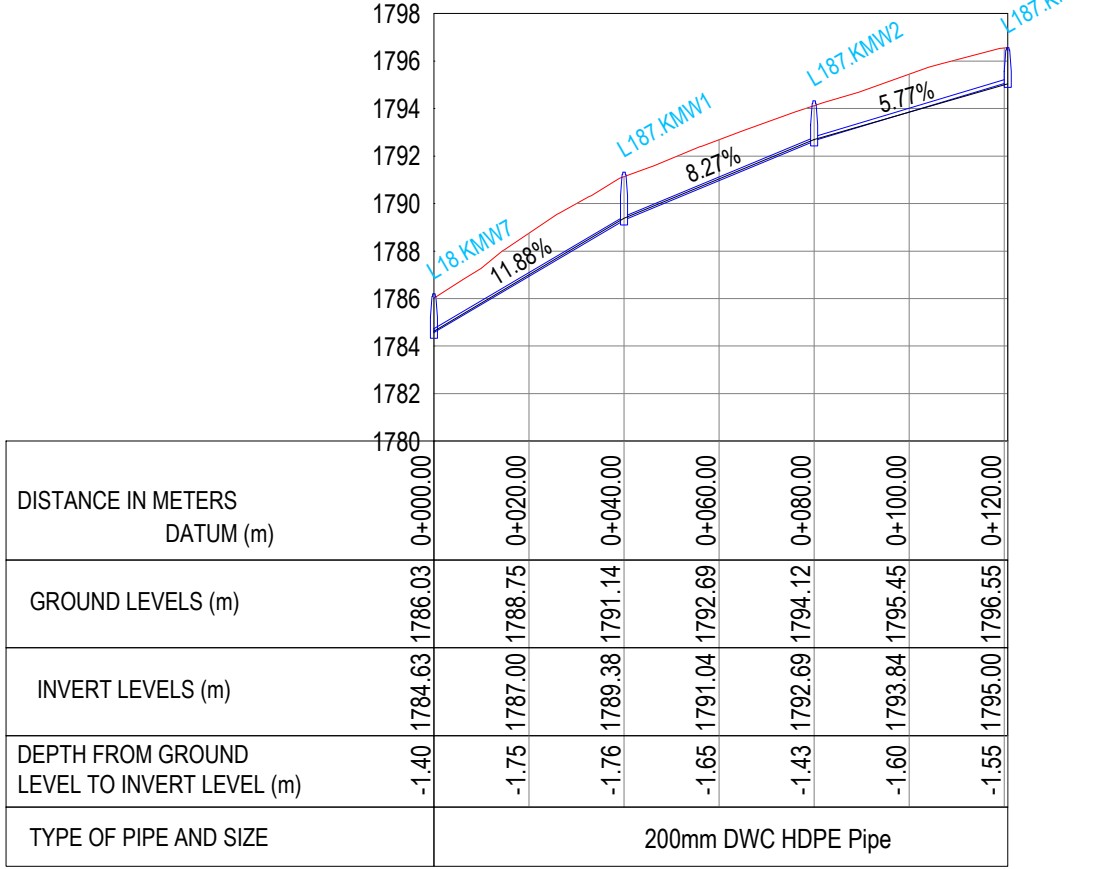


PLAN

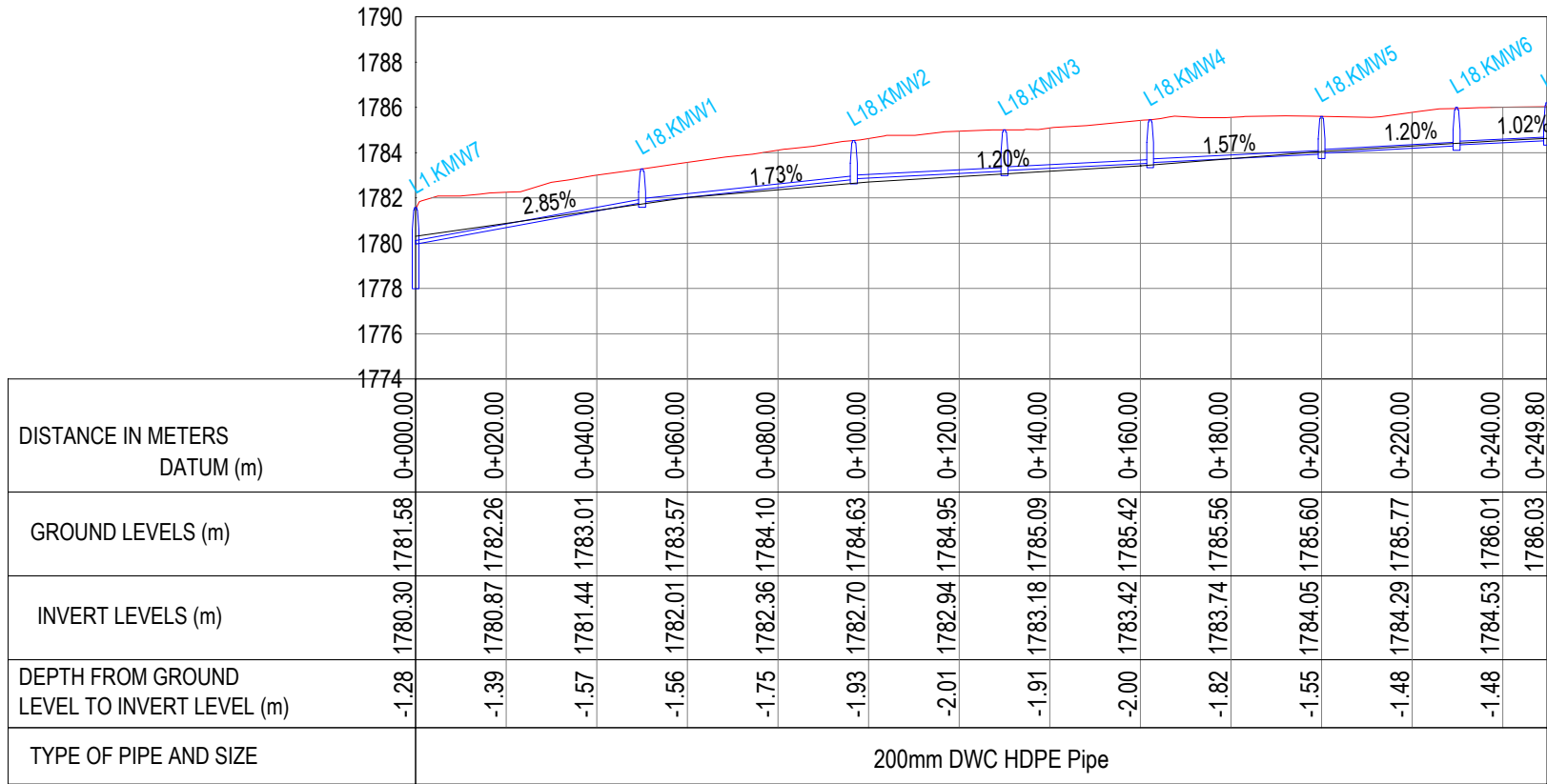
Kiamwathi Lateral 1.8.4



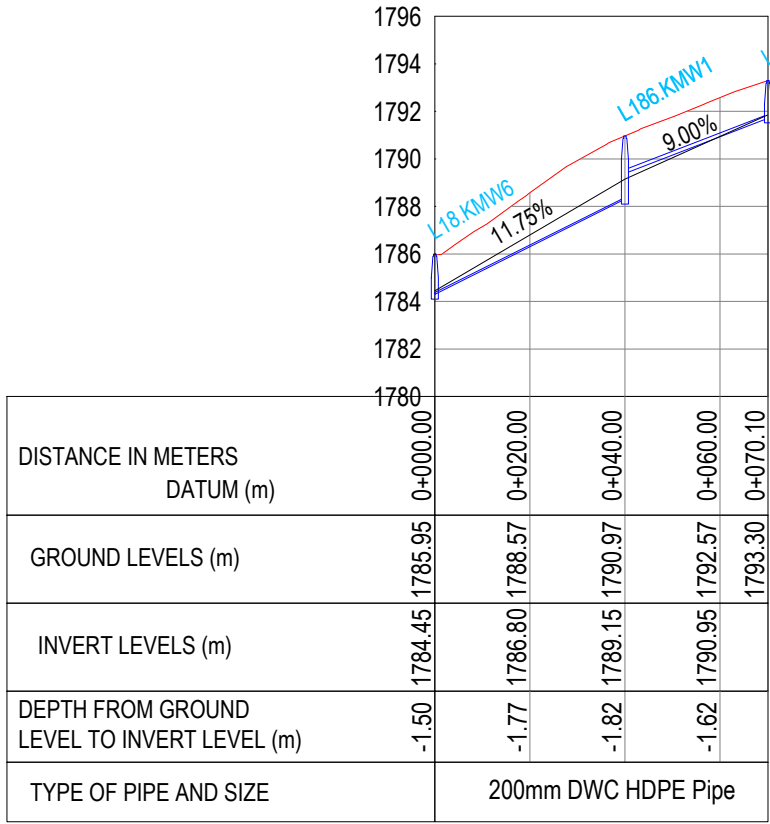
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Kiamwathi Lateral 1.8

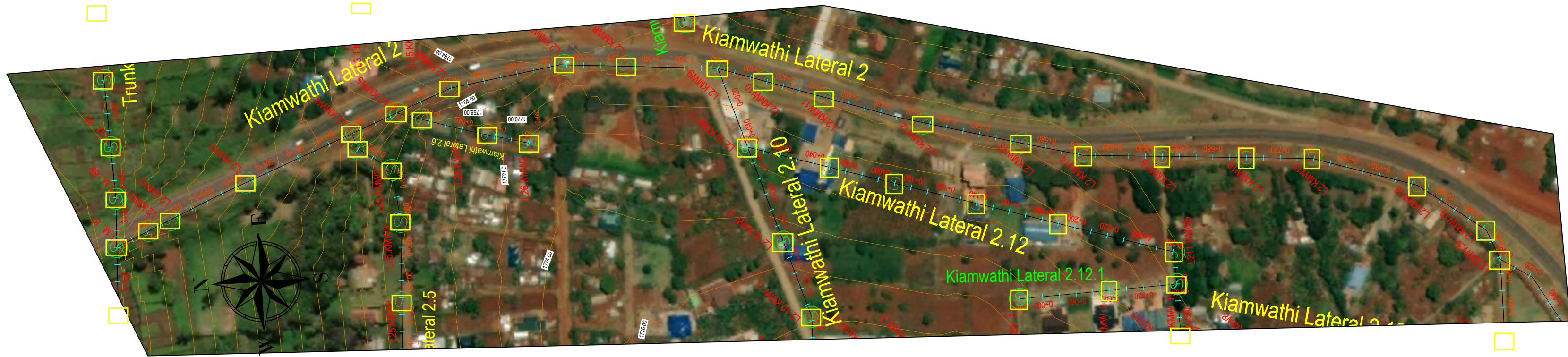


Kiamwathi Lateral 1.8.6

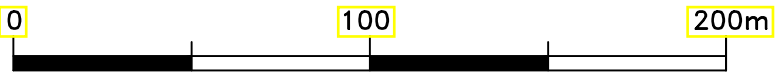






No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>KIAMWATHI LATERALS PLAN AND PROFILE</b>	: M.O.O
2.				: E.I.						
3.				: W.K						
4.				: S.M.M						
									Client Approval :	
									Date :	OCT 2024
									Drawing No :	WSTF/AoD/NYERI/12





PLAN



No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:		PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					<div> Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA</div>	<div> NYERI WATER &amp; SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke</div>	<div> REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION</div>	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	<div> CAS CONSULTANTS LIMITED LE' MAC BUILDING, 1<sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke</div>	KIAMWATHI LATERALS PLAN AND PROFILE	Drawn By : K.K.R
2.											Checked By : W.K
3.											Approved By : S.M.M
4.											Client Approval : Date : OCT 2024 Drawing No : WSTF/AoD/NYERI/13



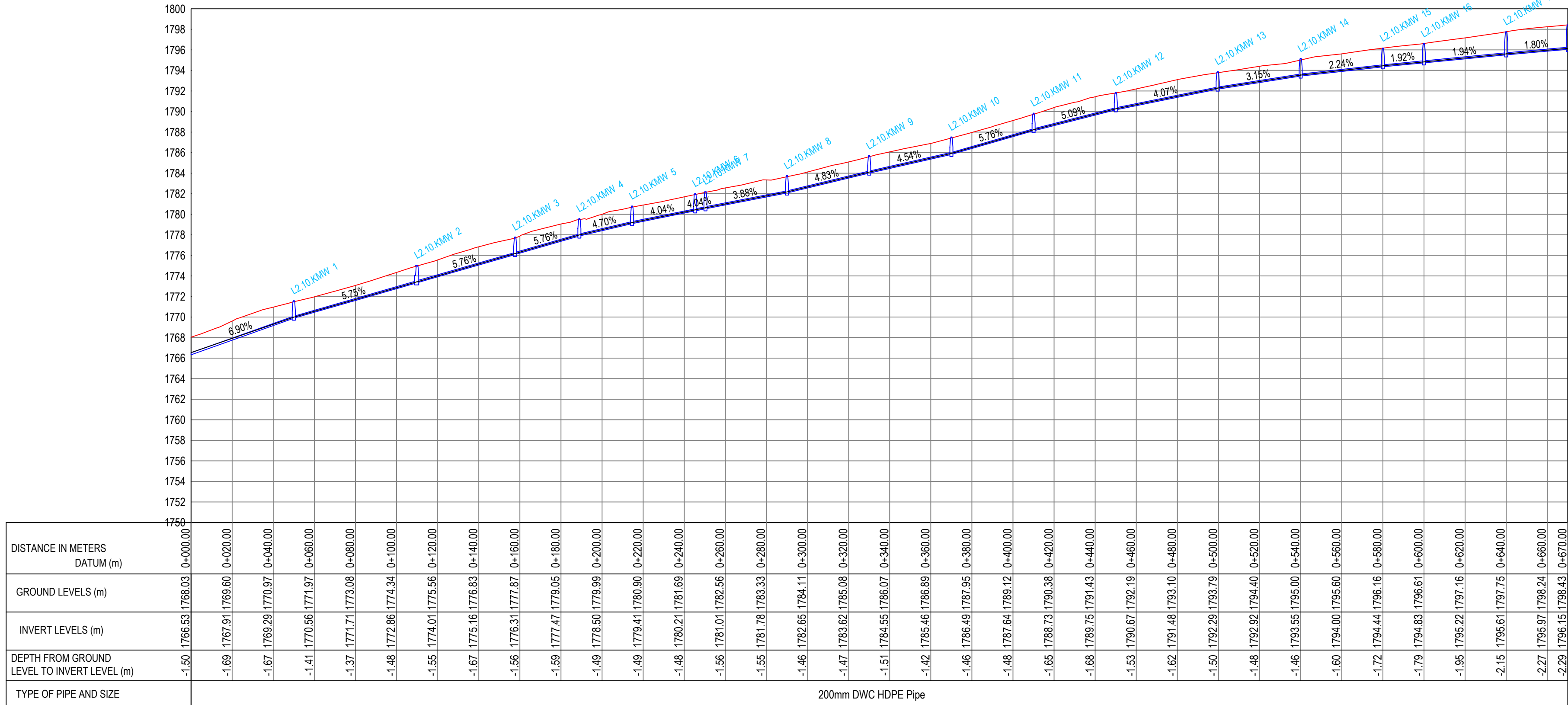




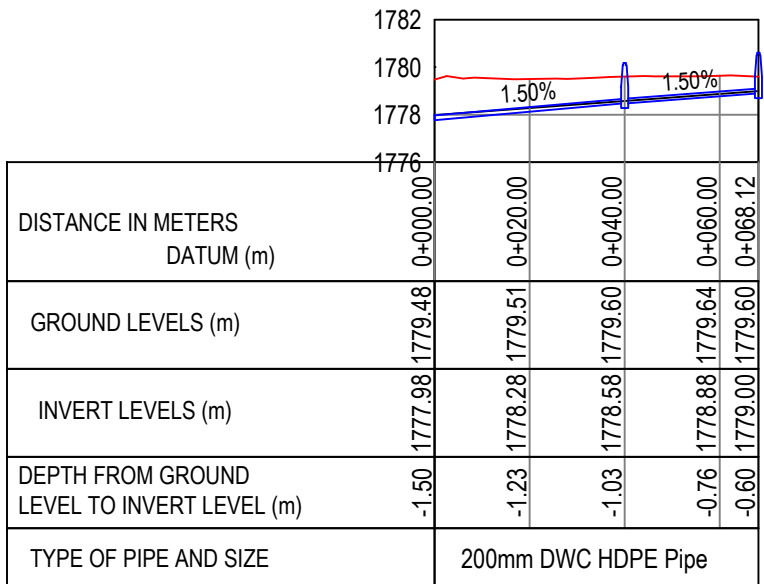


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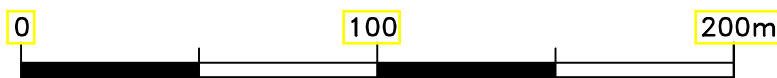
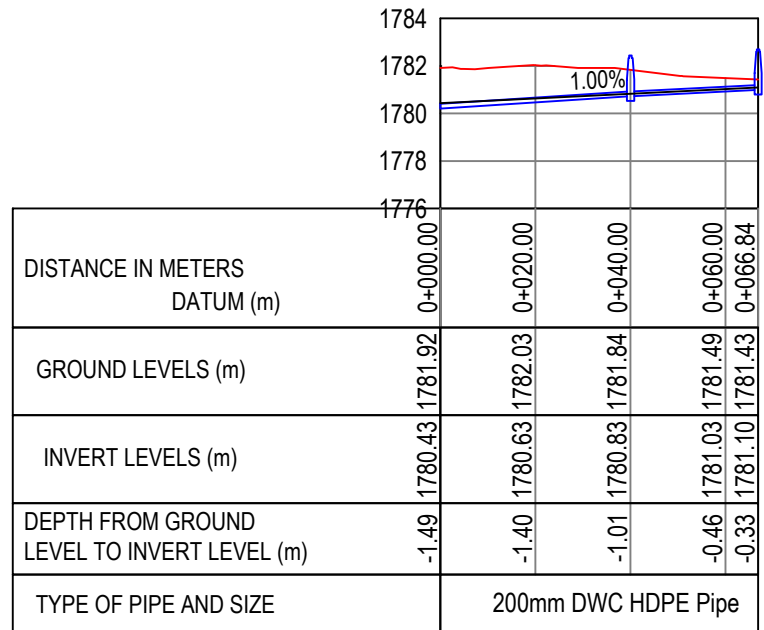
Kiamwathi Lateral 2.10







Kiamwathi Lateral 2.10.1

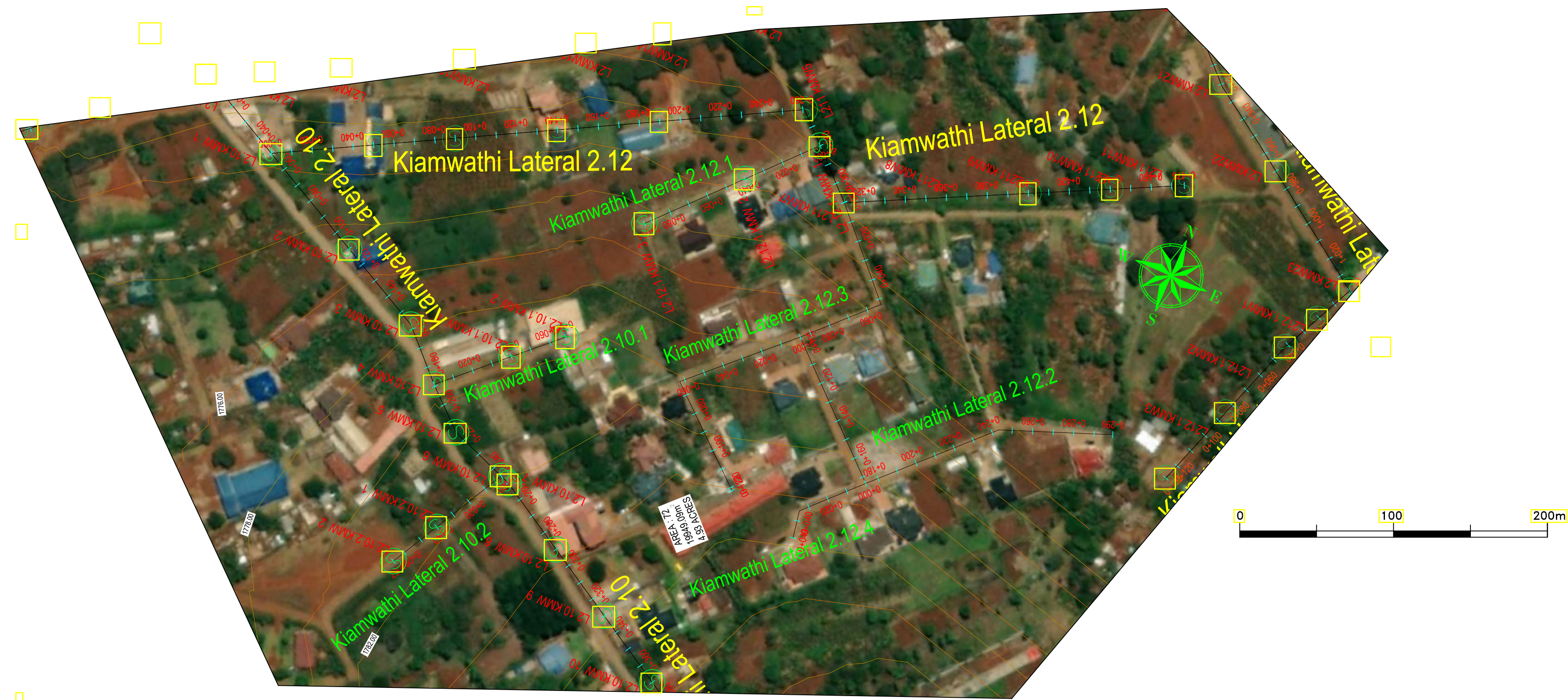


Kiamwathi Lateral 2.10.2







No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>KIAMWATHI LATERALS PLAN AND PROFILE</b>	Drawn By : E.I
2.				Checked By : W.K						
3.				Approved By : S.M.M						
4.				Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/15						





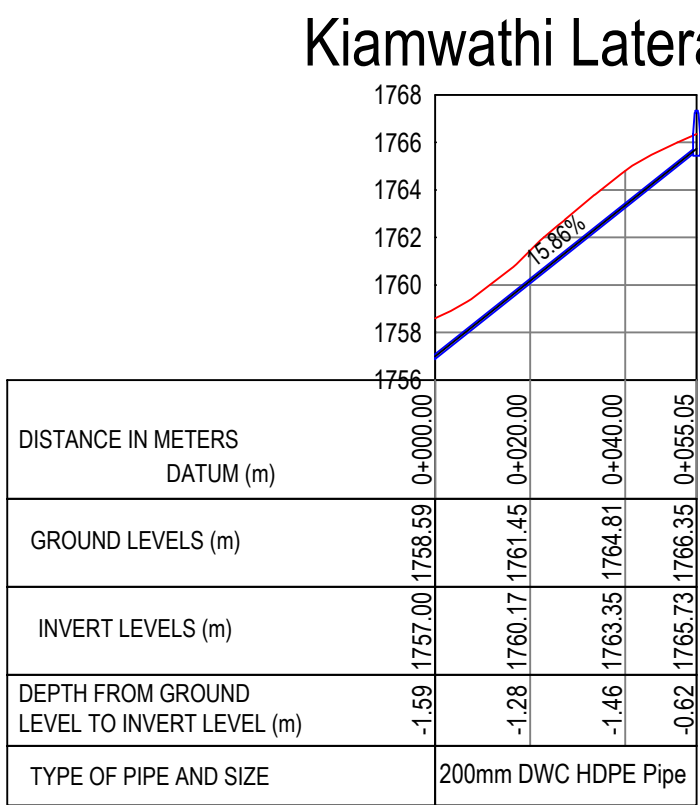
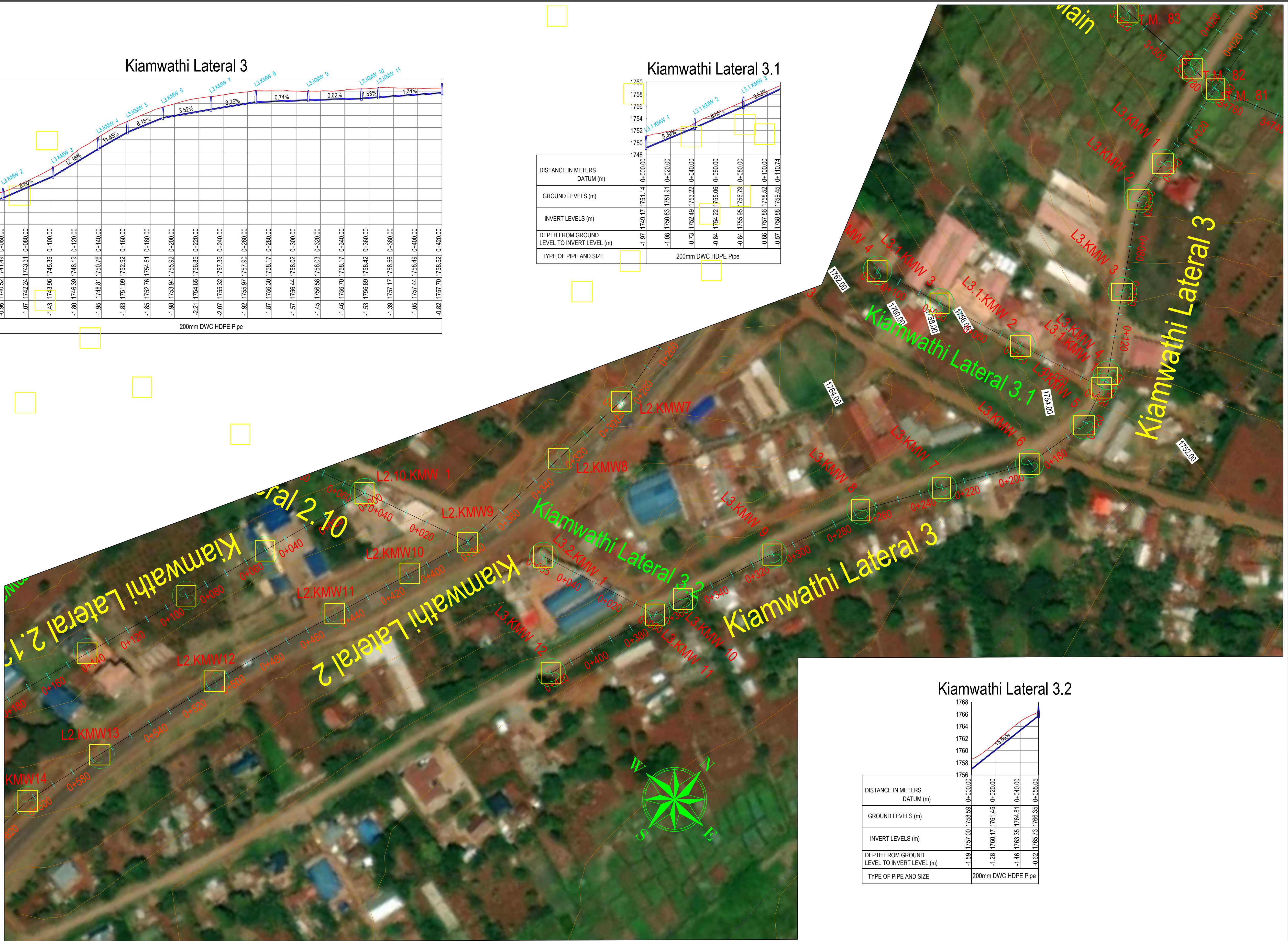
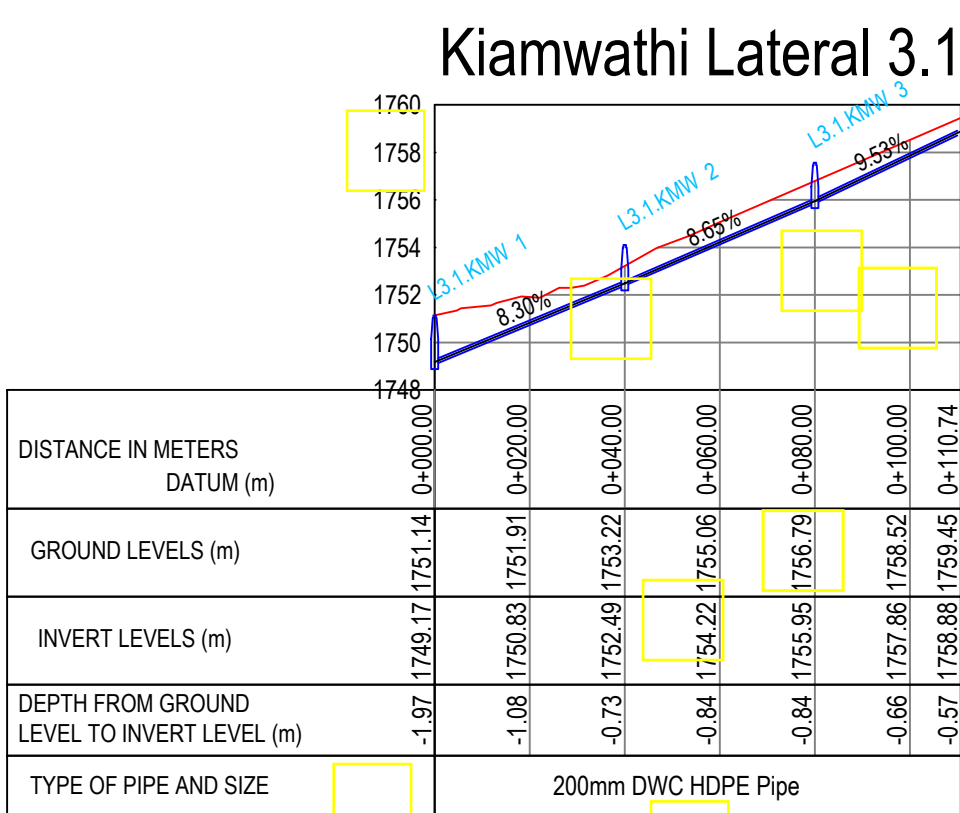
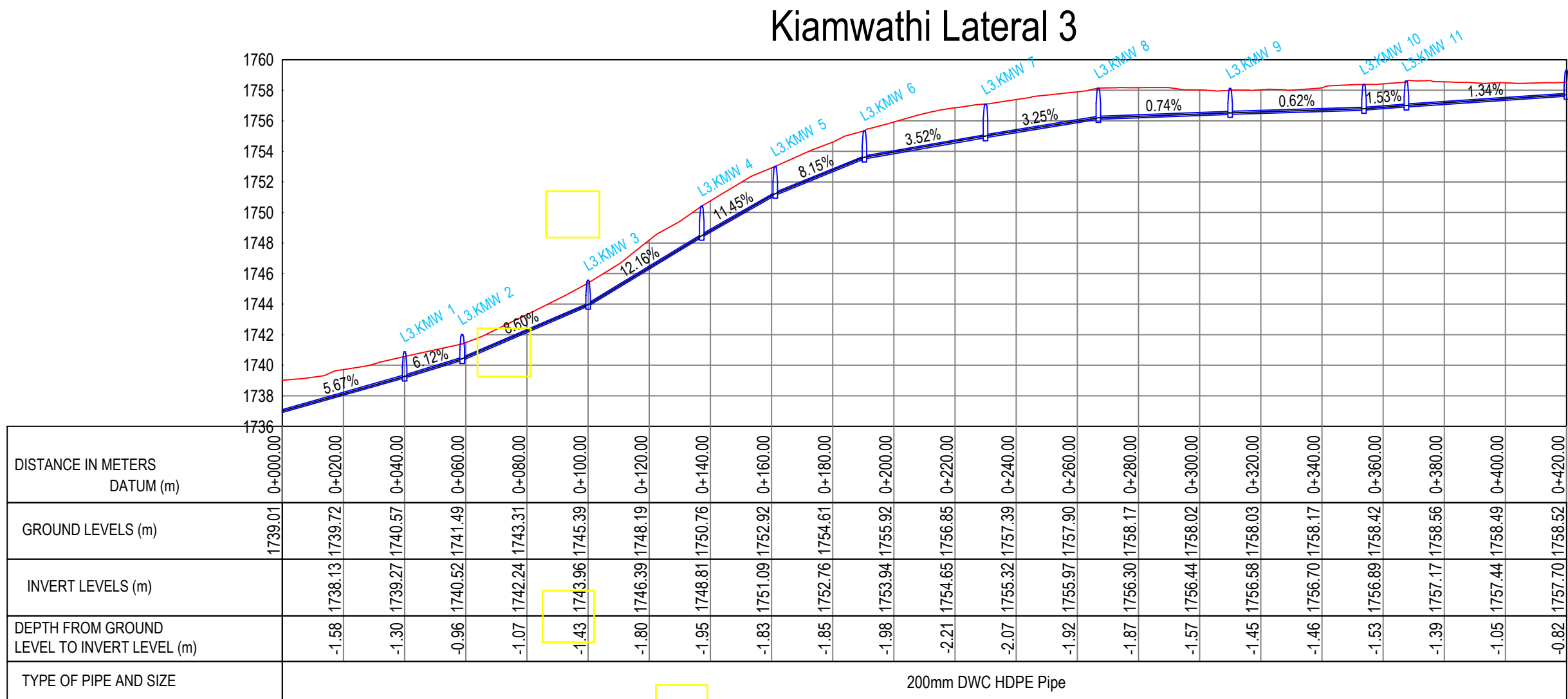
PLAN






No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:		PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					 Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	 NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	 REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	 CAS CONSULTANTS LIMITED LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	KIAMWATHI LATERALS PLAN AND PROFILE	Drawn By : E.I
2.											Checked By : W.K
3.											Approved By : S.M.M
4.											Client Approval : Date : OCT 2024 Drawing No : WSTF/AoD/NYERI/16







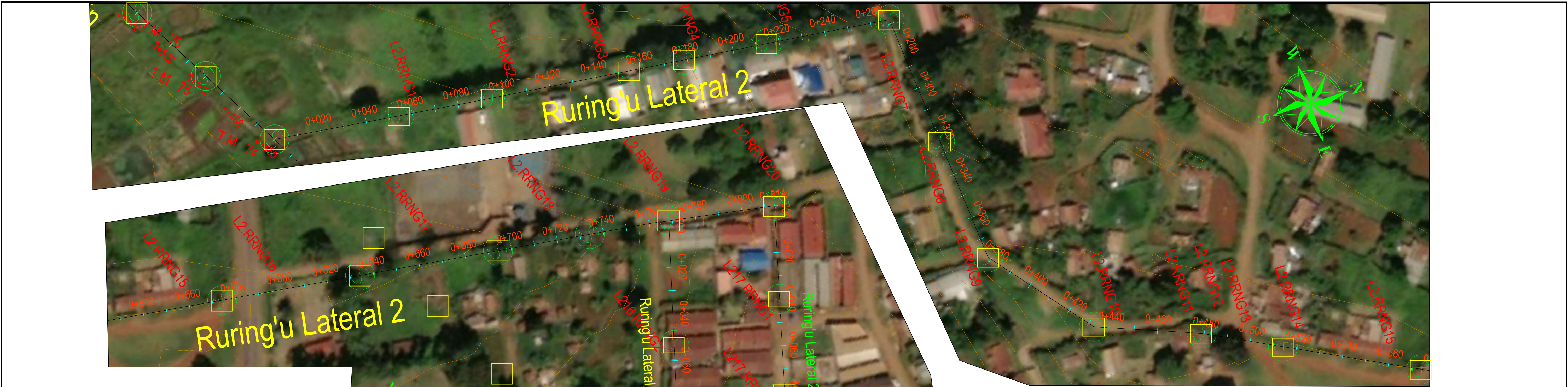


No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	  CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE' MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	Designed By : M.O.O
2.				Drawn By : E.I.						
3.				Checked By : W.K						
4.				Approved By : S.M.M						
									<b>KIAMWATHI LATERALS PLAN AND PROFILE</b>	Client Approval :
										Date : OCT 2024
										Drawing No :WSTF/AoD/NYERI/18



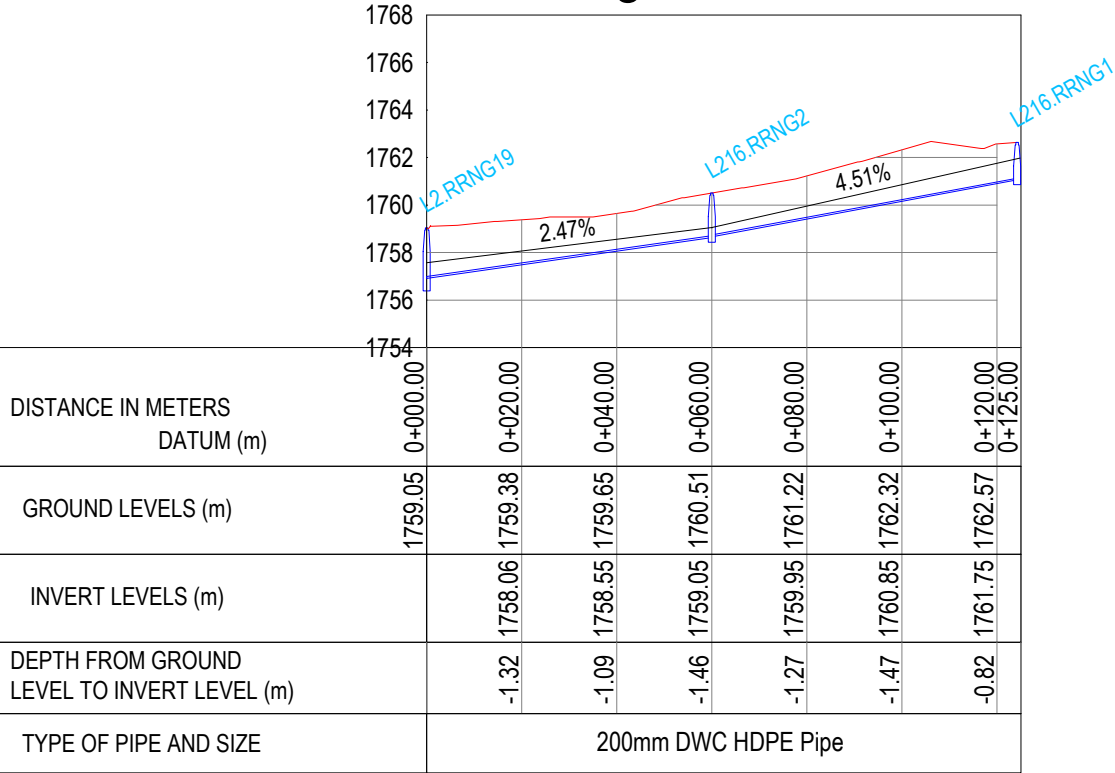




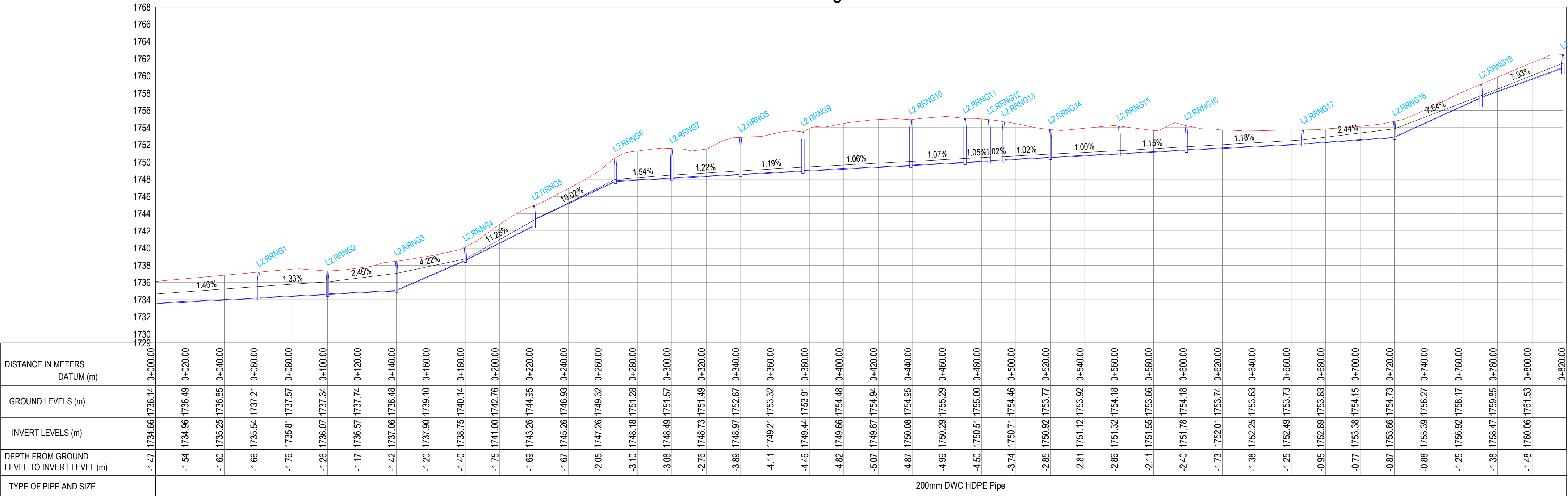
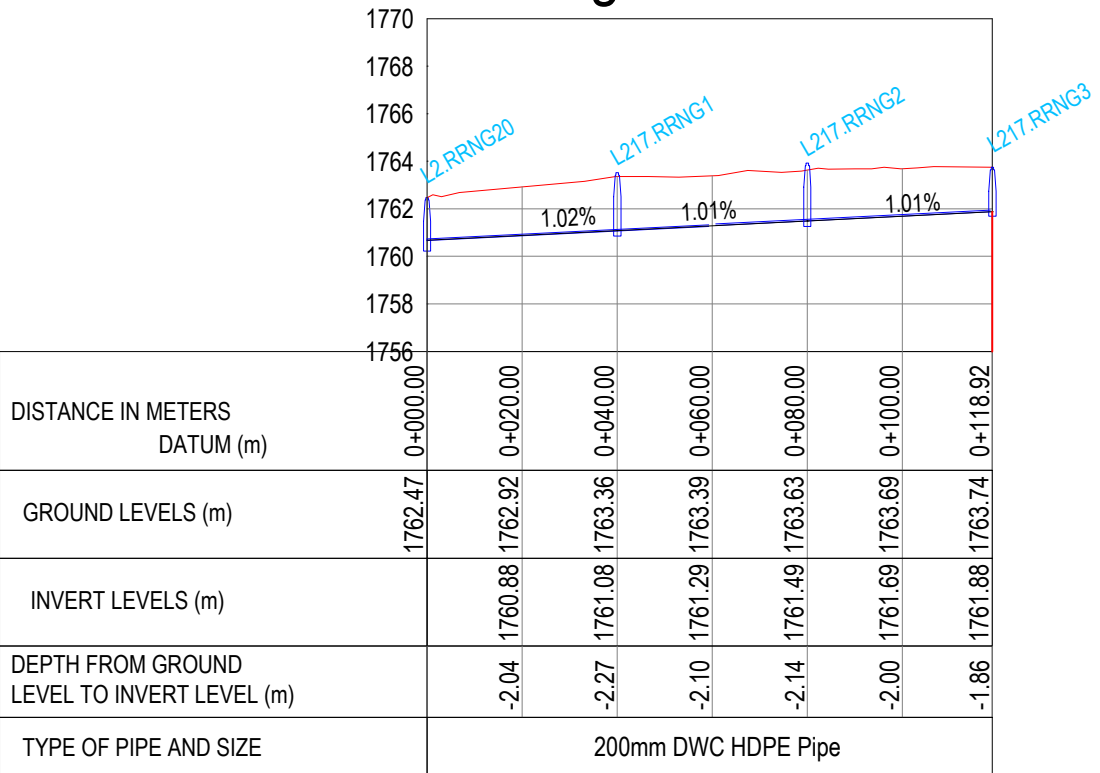






PLAN

Ruring'u Lateral 216

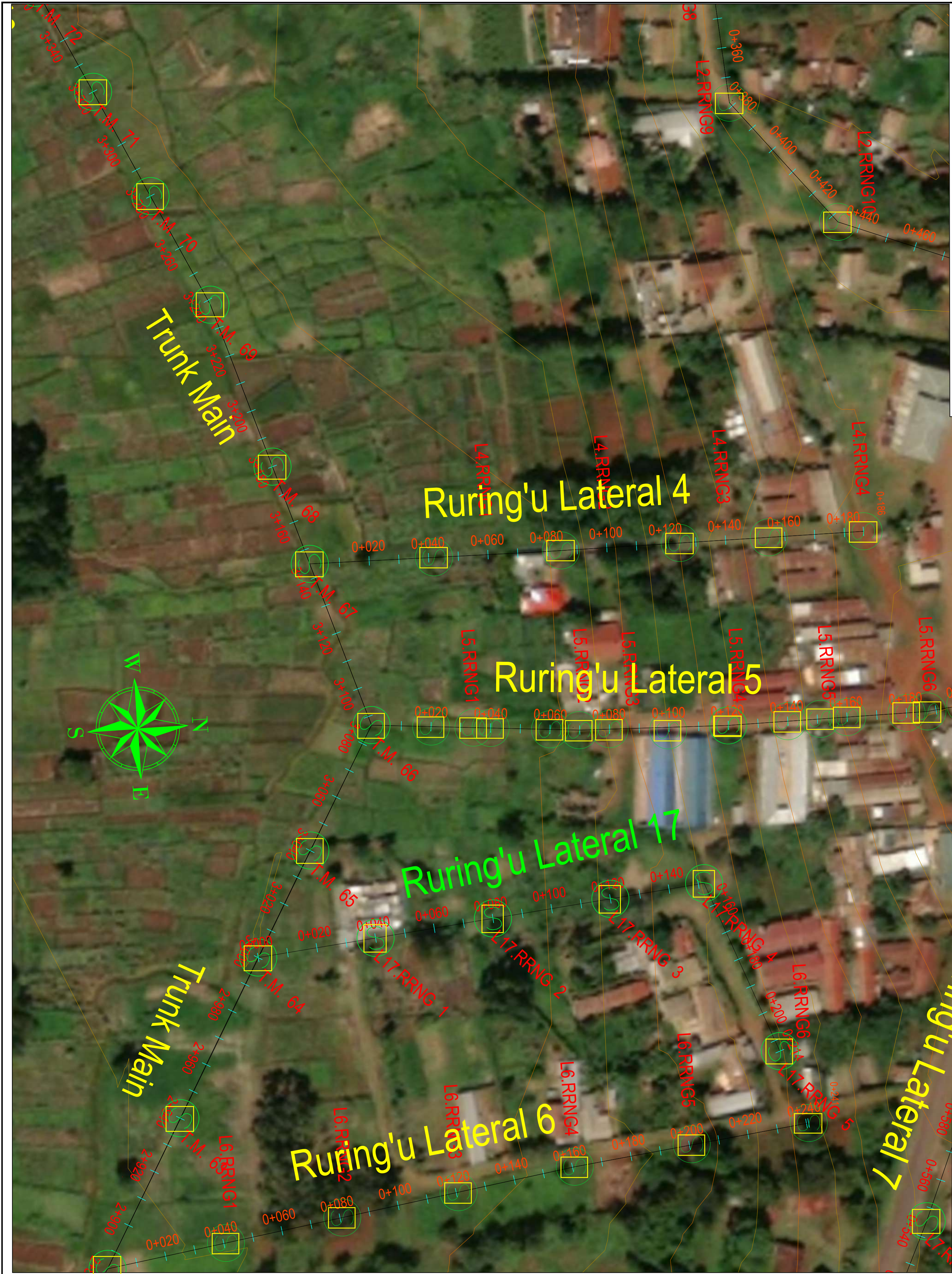


Ruring'u Lateral 217

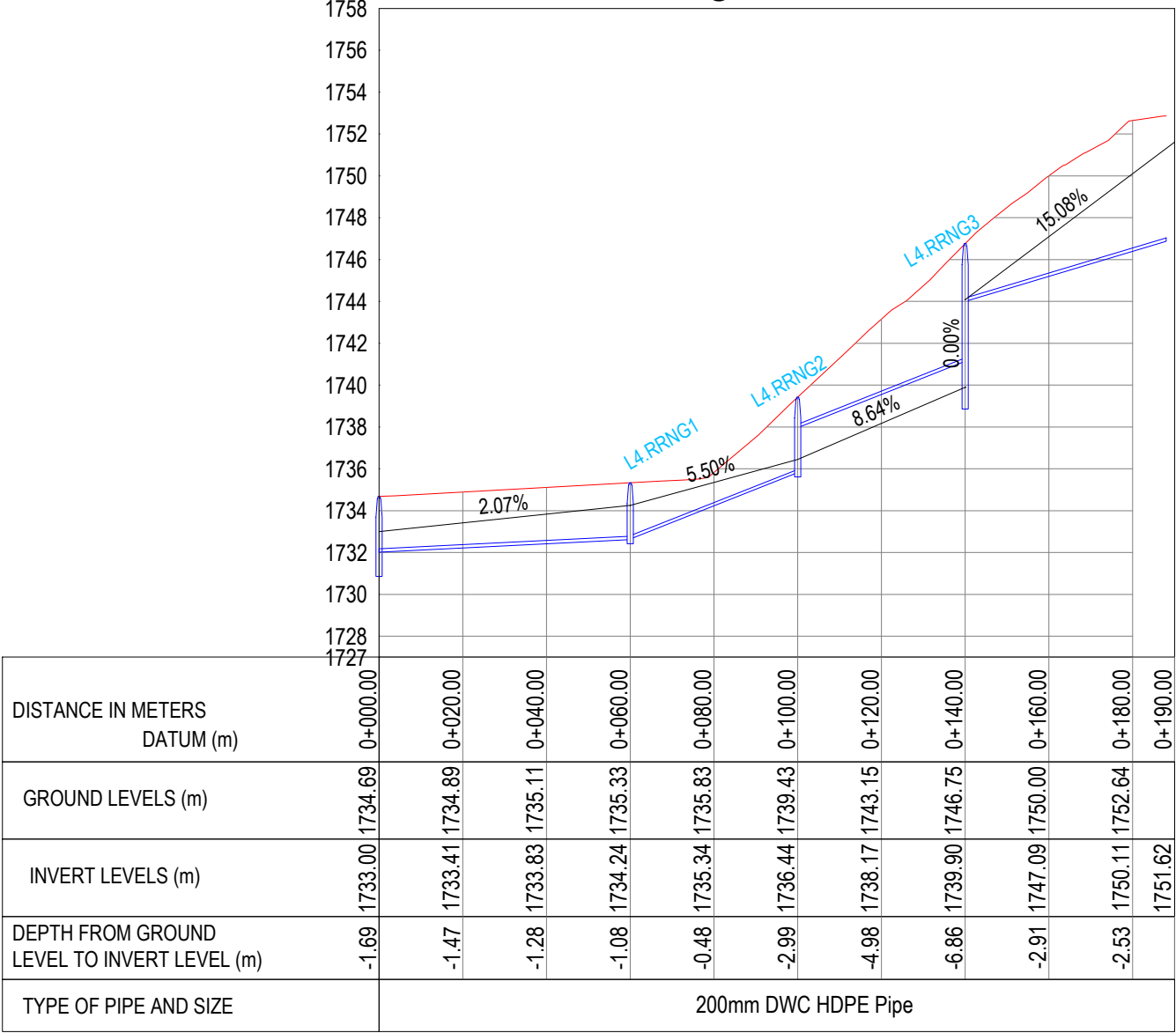


No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					 Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	 NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	 REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	 CAS CONSULTANTS LIMITED LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	RURINGU LATERALS PLAN AND PROFILE	Drawn By : E.I
2.										Checked By : W.K
3.										Approved By : S.M.M
4.										Client Approval : Date : OCT 2024 Drawing No : WSTF/AoD/NYERI/20

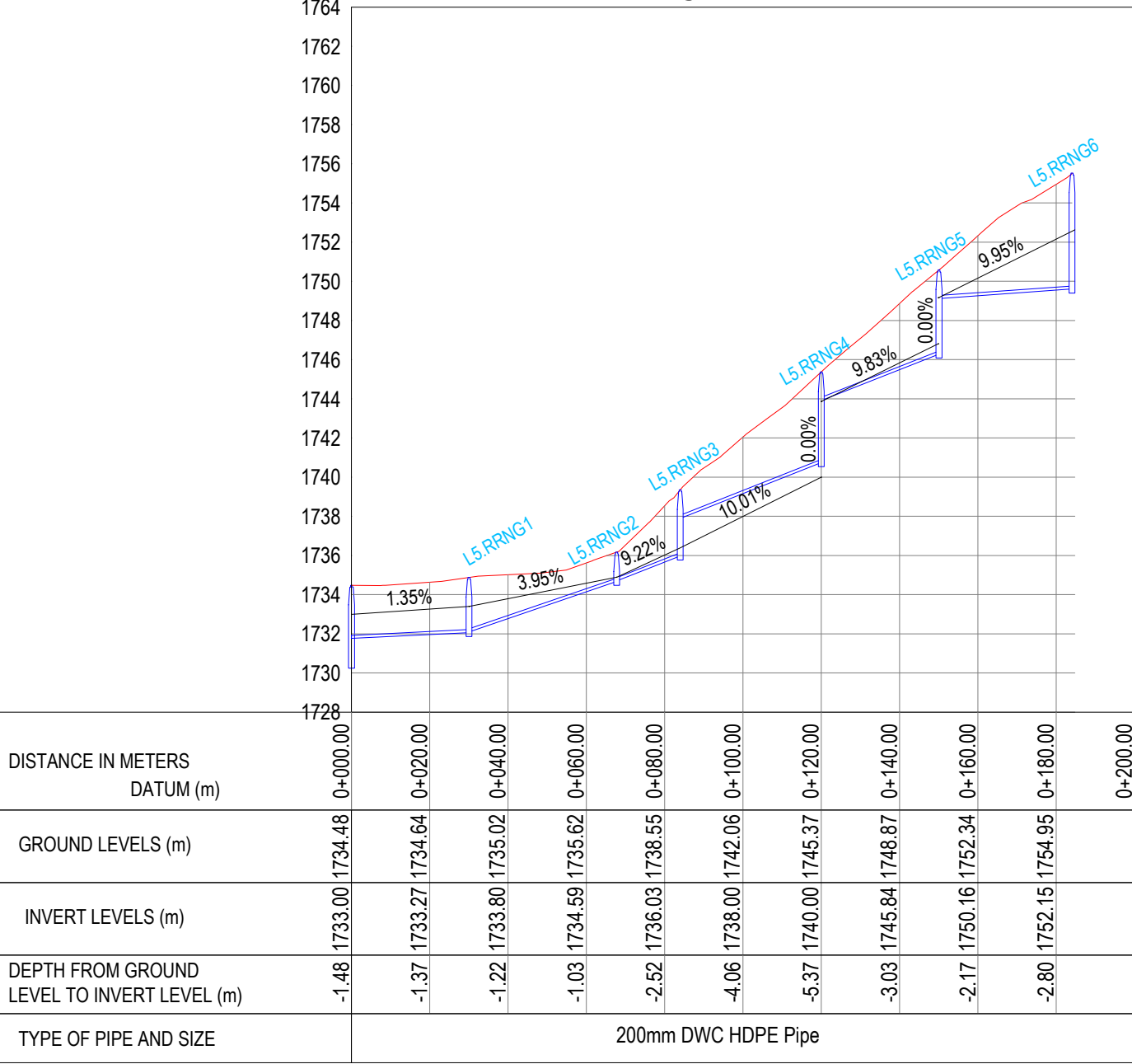




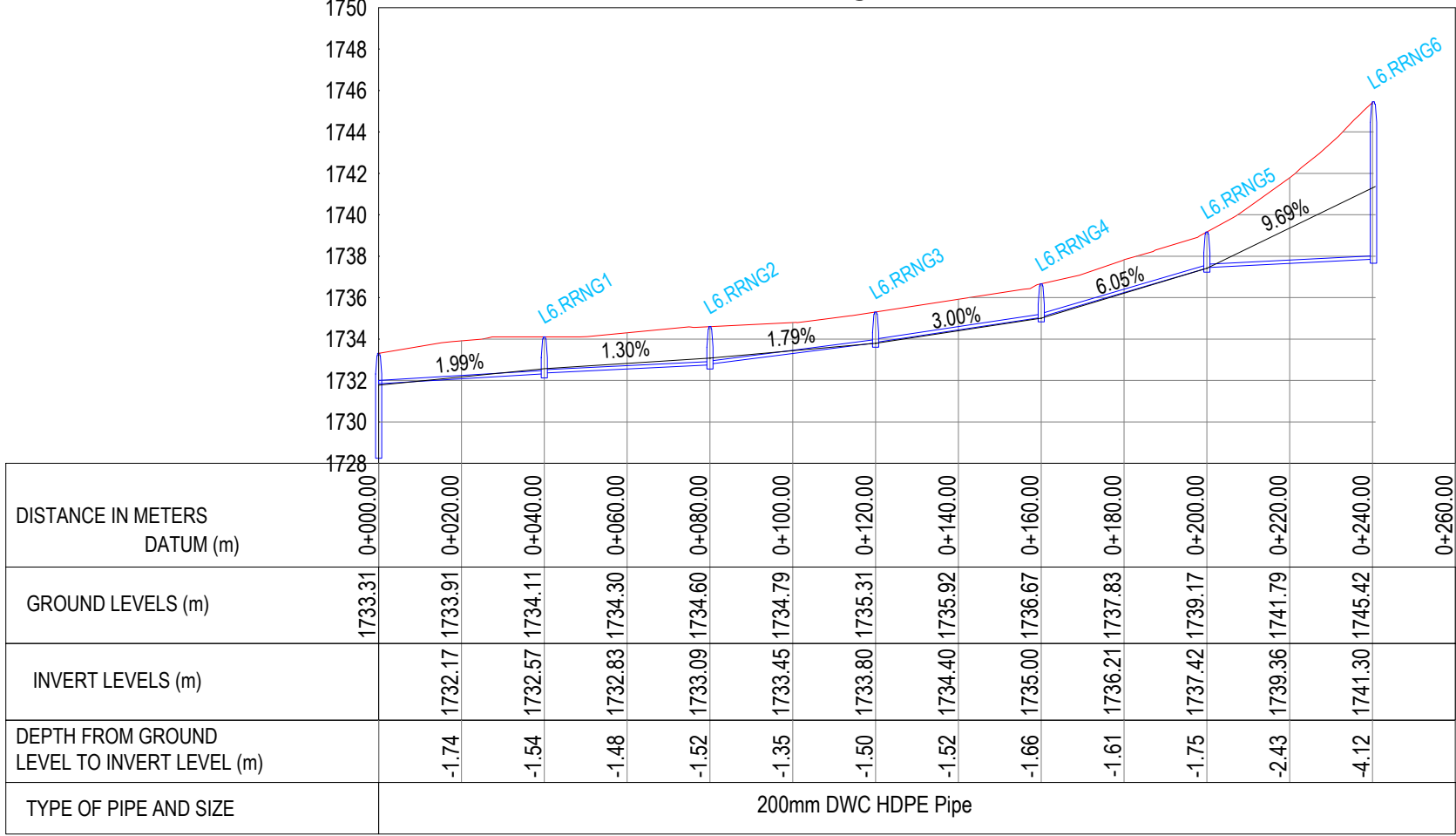
Ruringu Lateral 4



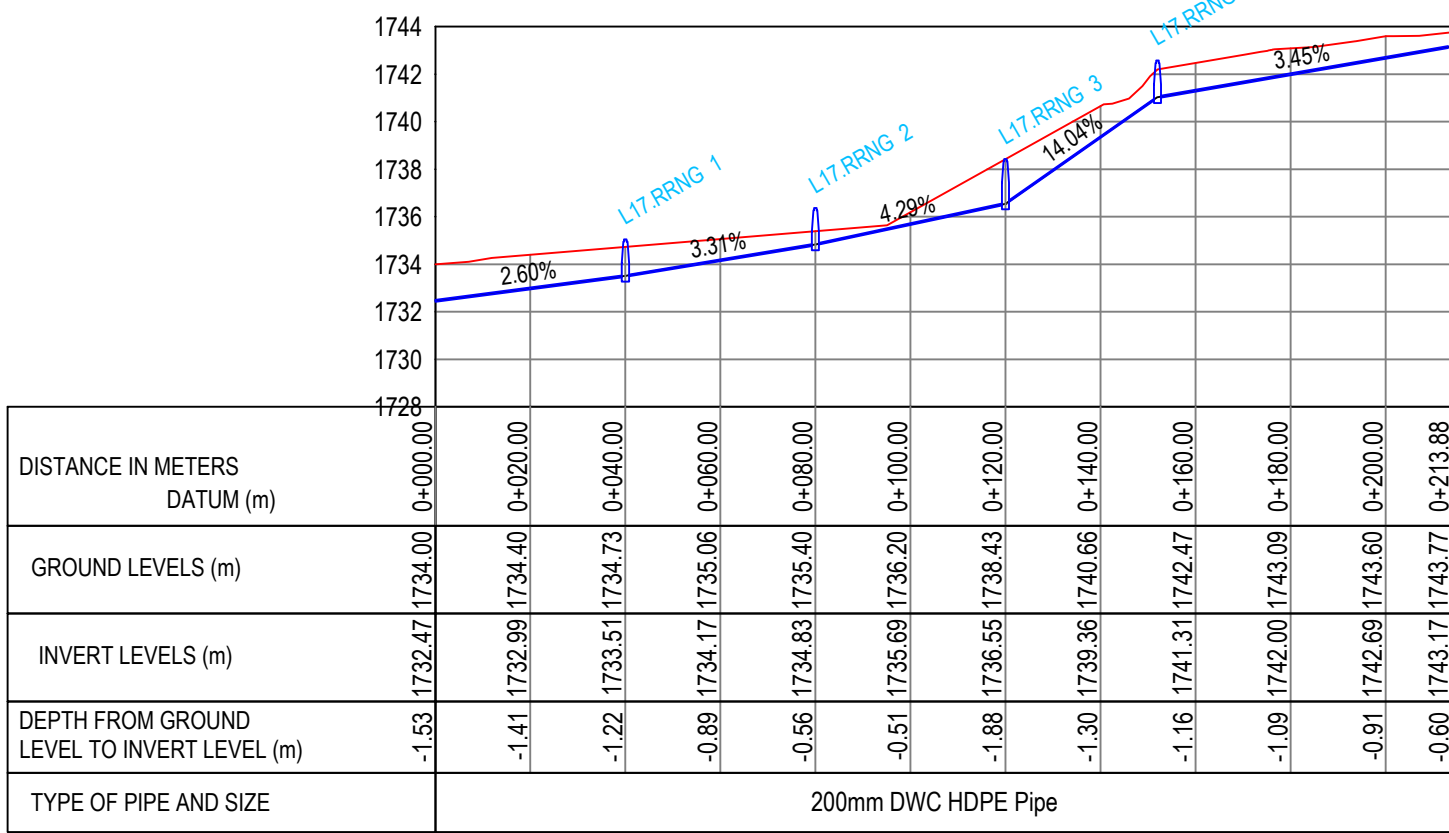
Ruringu Lateral 5







Ruringu Lateral 6

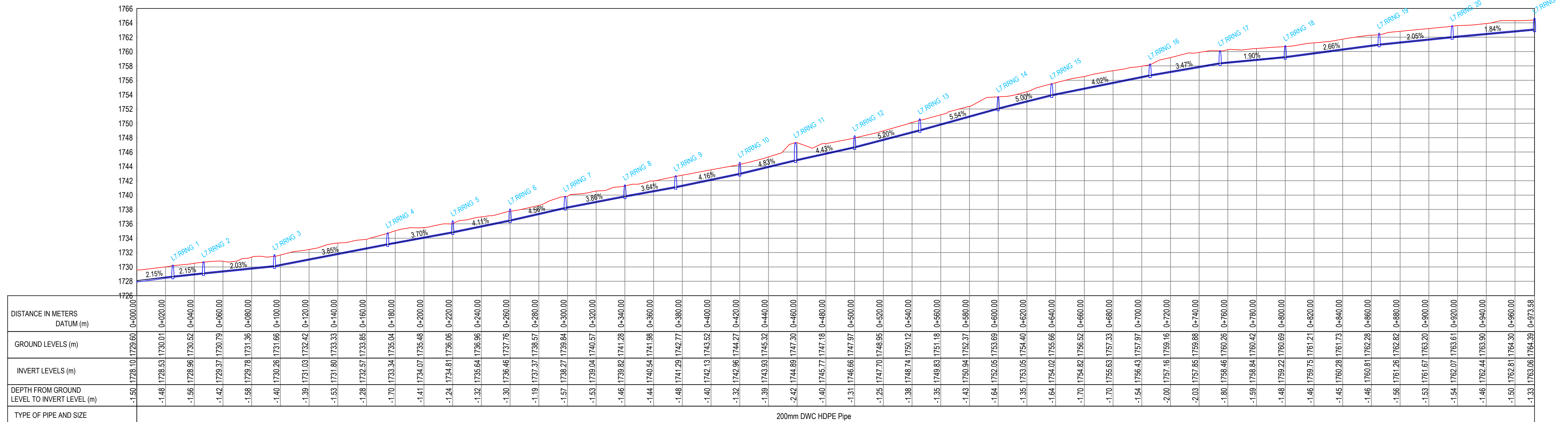
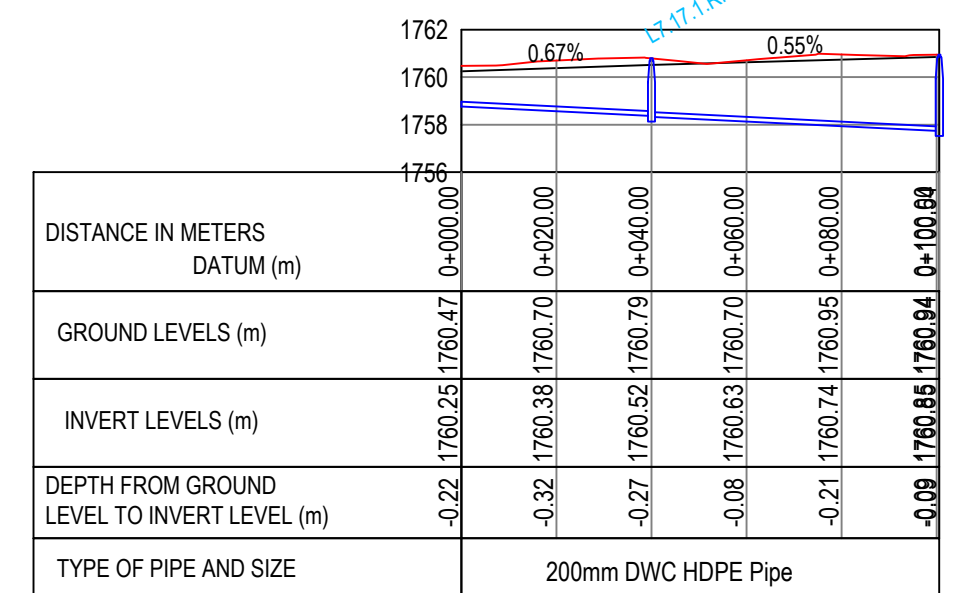
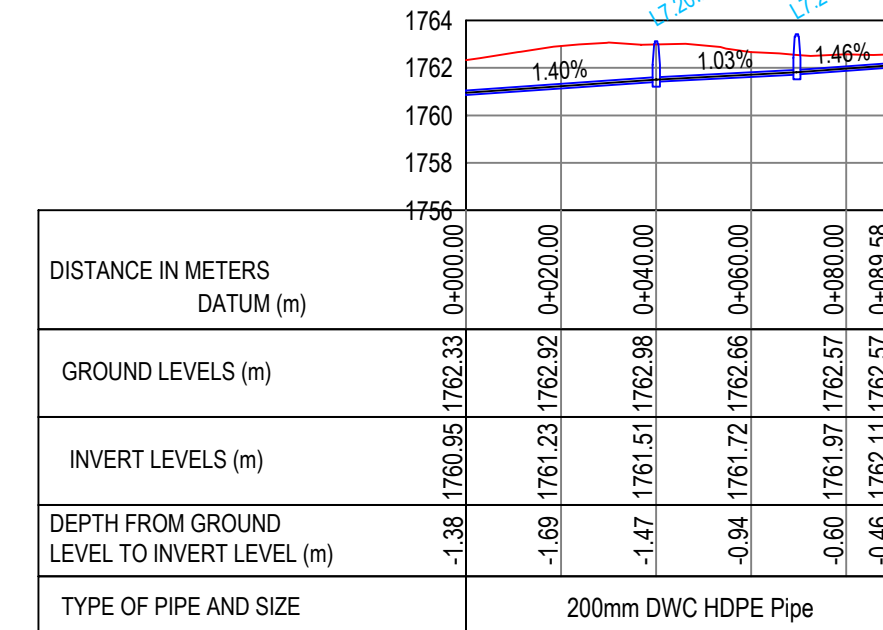
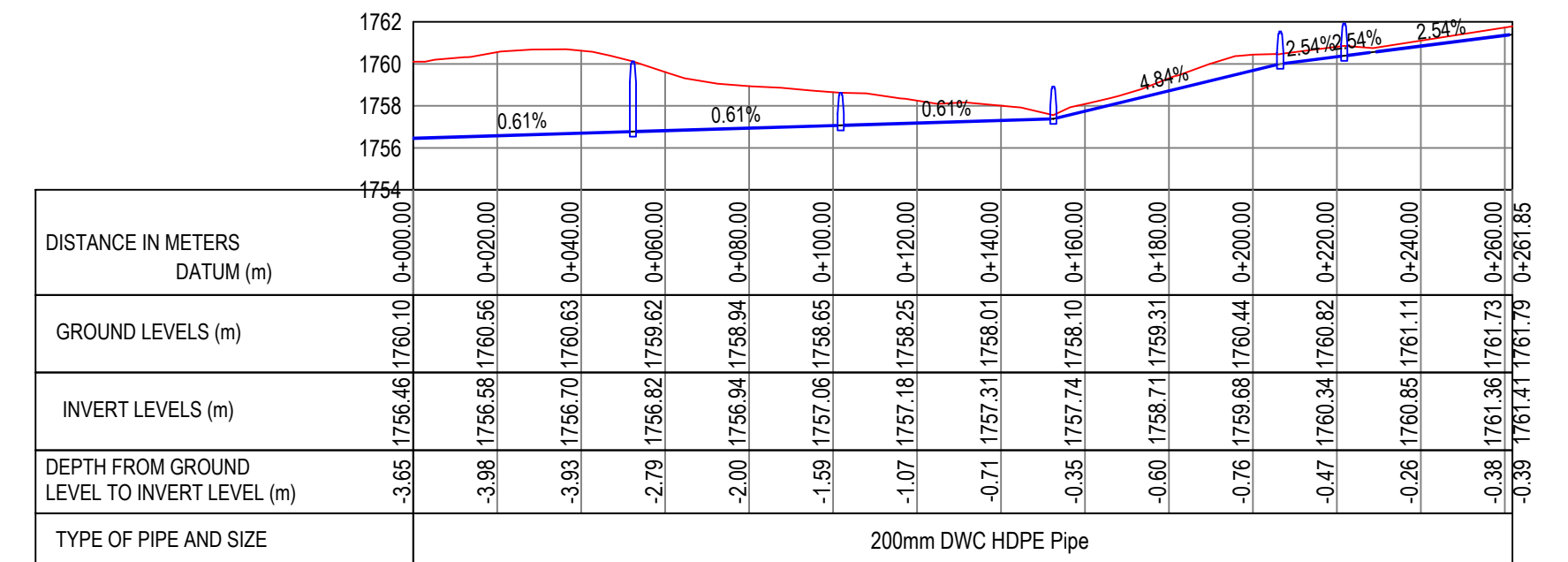





Ruringu Lateral 17



No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>RURINGU LATERALS PLAN AND PROFILE</b>	: M.O.O
2.				: E.I						
3.				: W.K						
4.				: S.M.M						
										Client Approval :
										Date : OCT 2024
										Drawing No :WSTF/AoD/NYERI/21

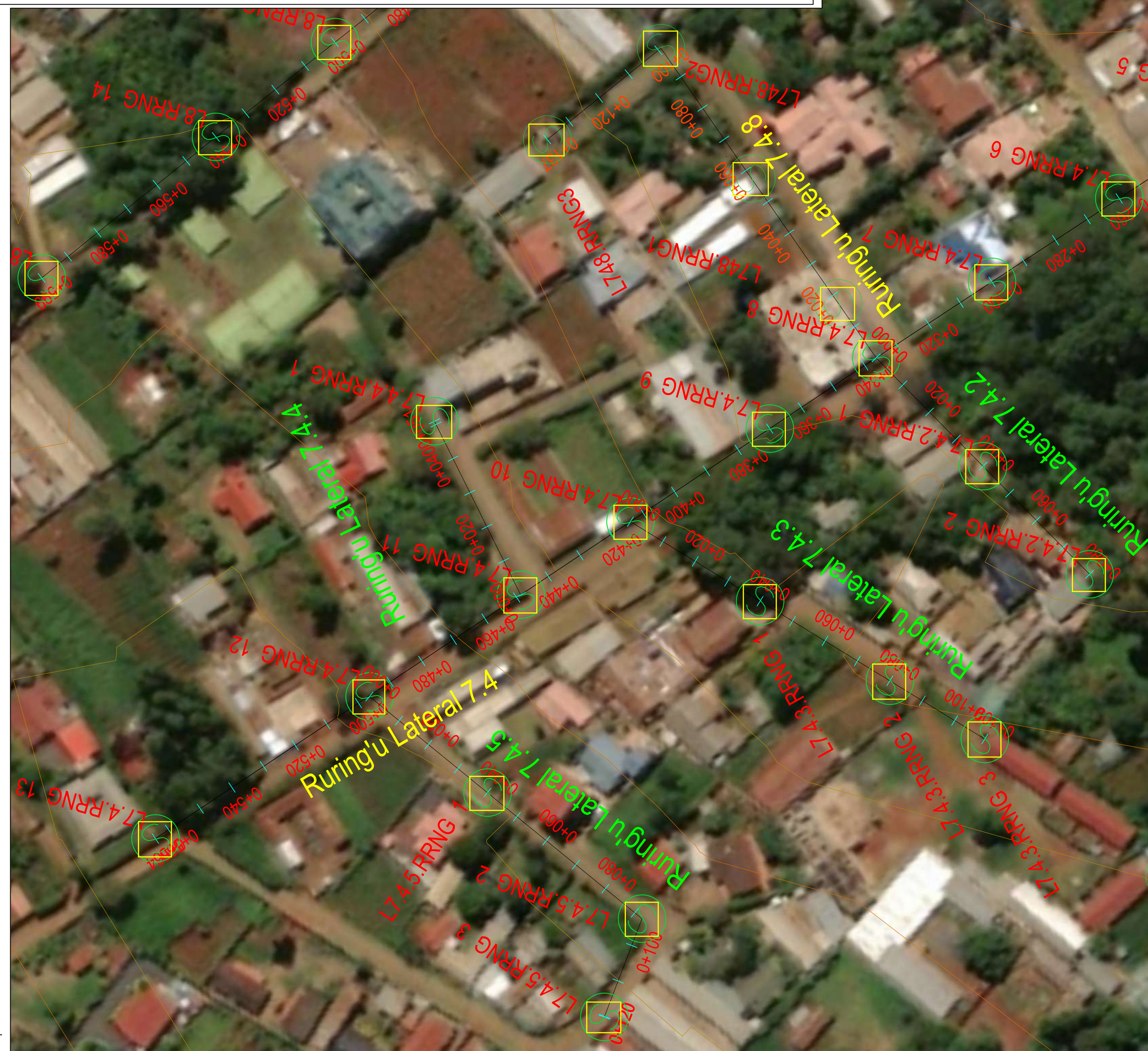
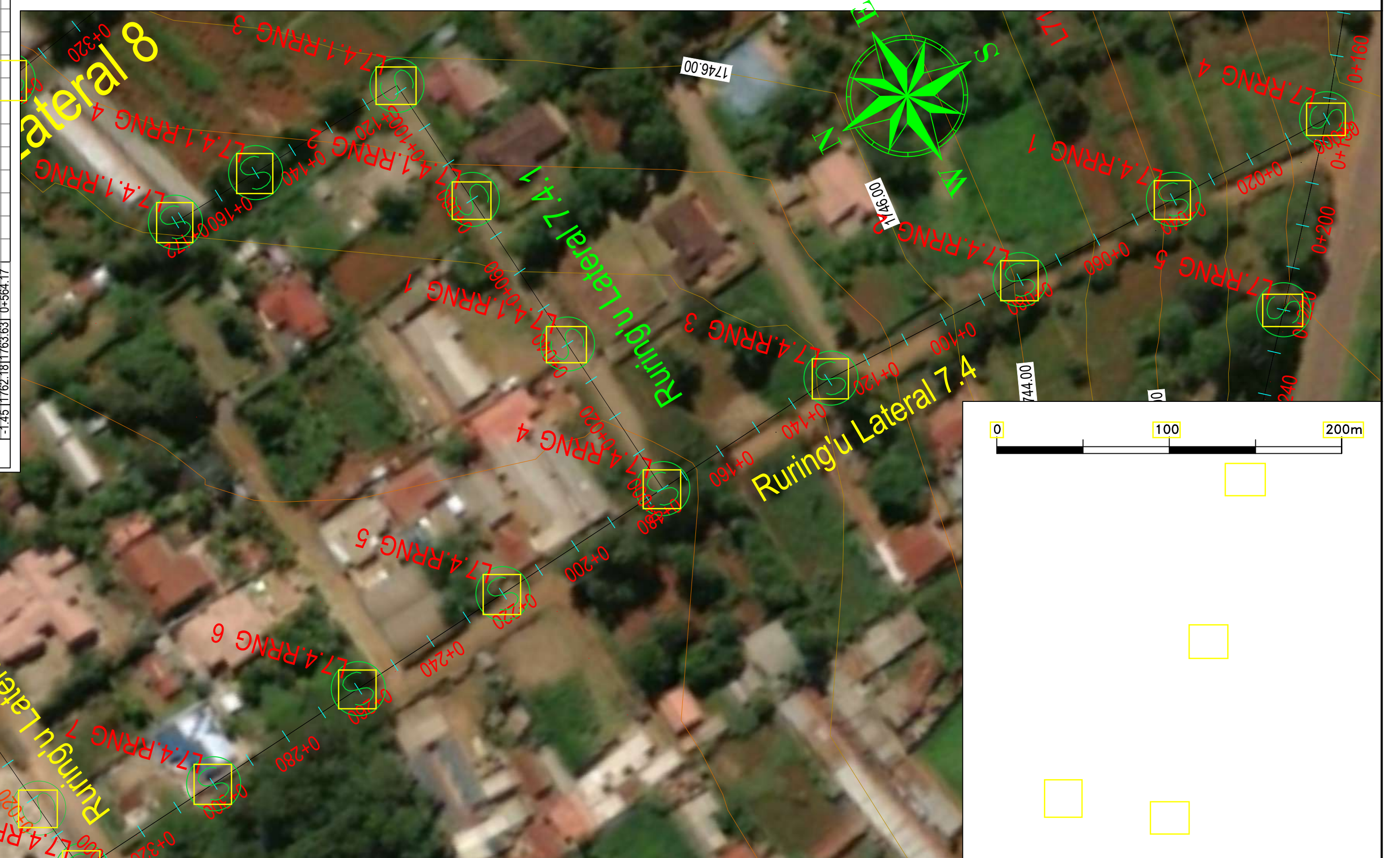
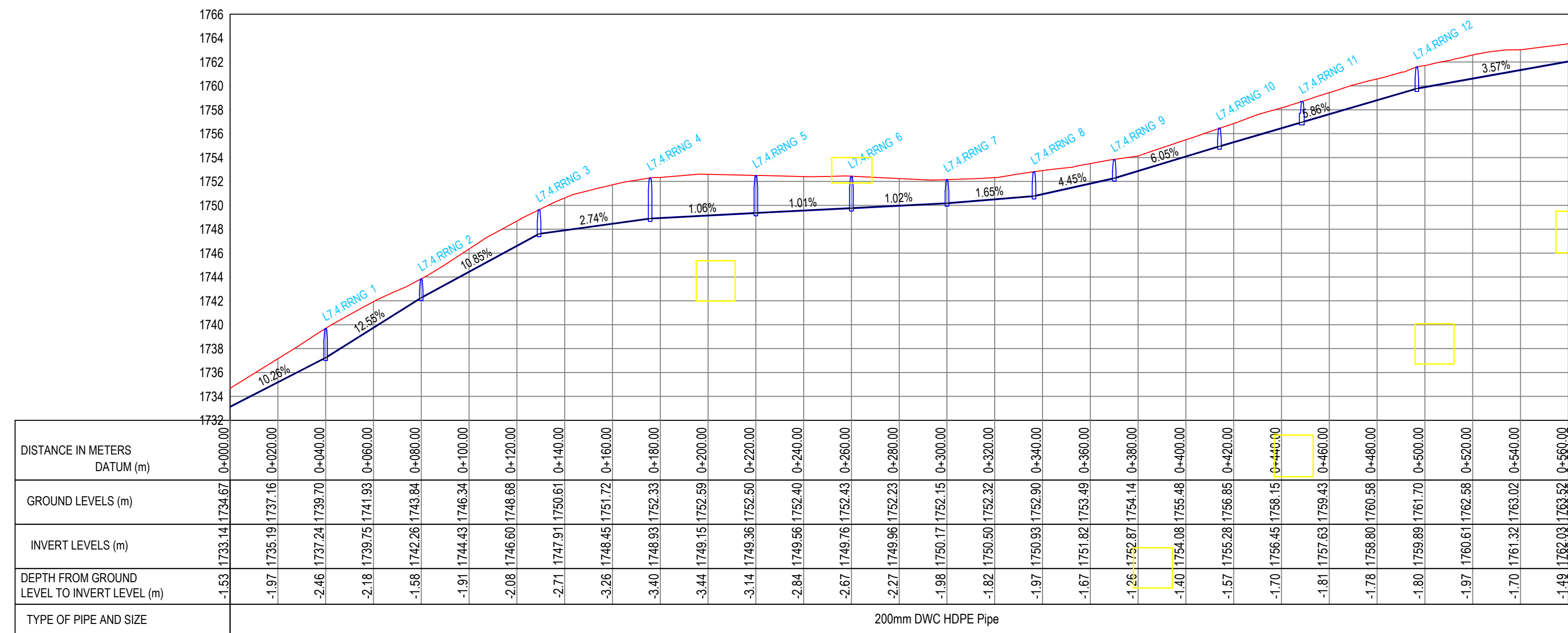




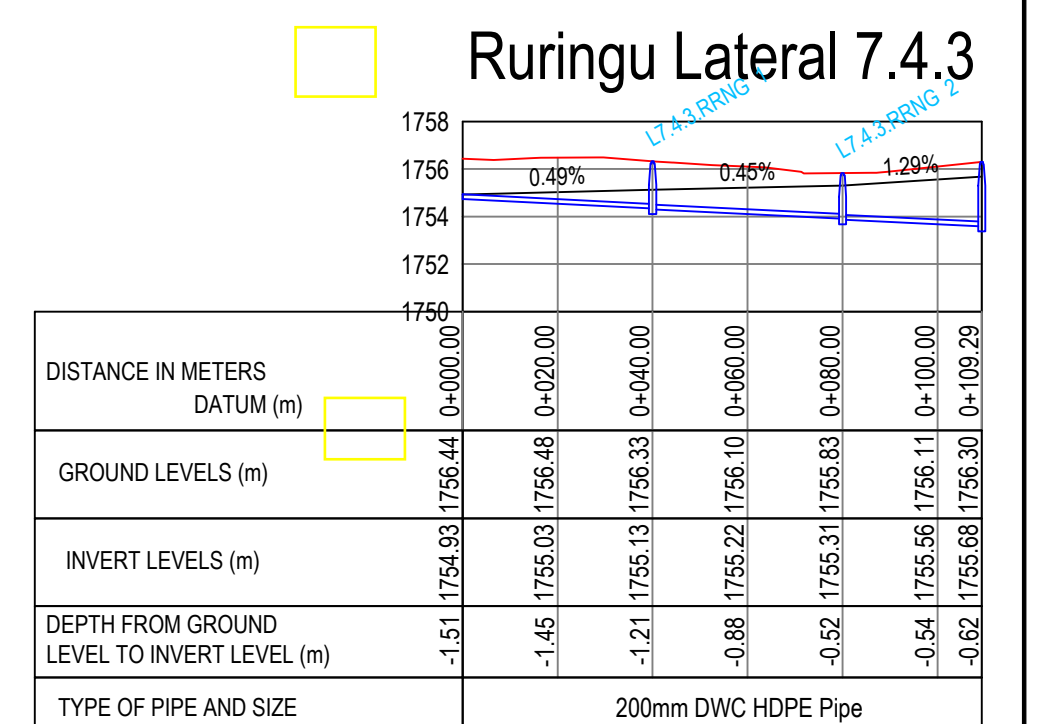
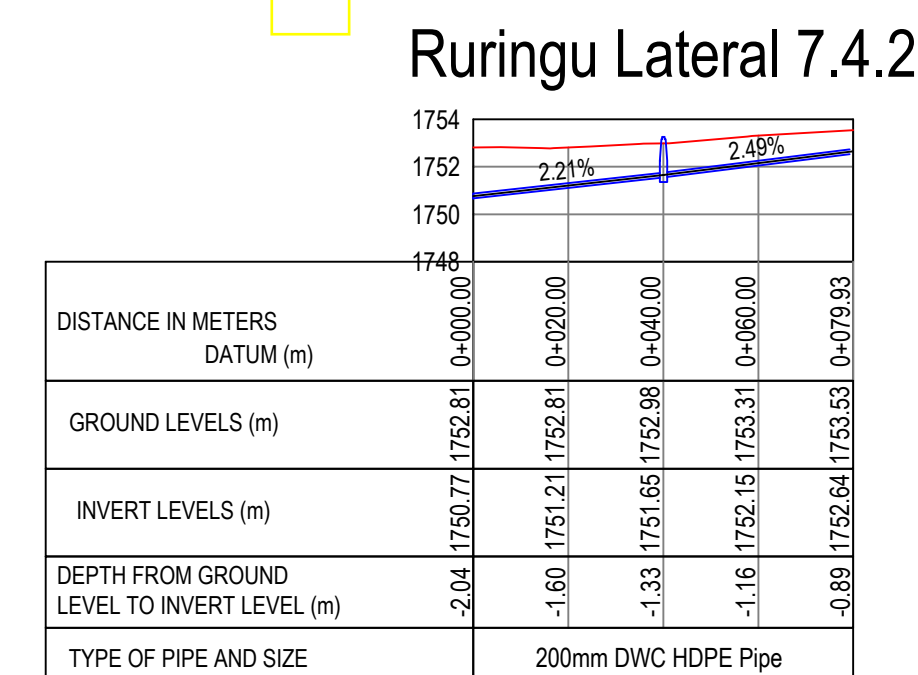
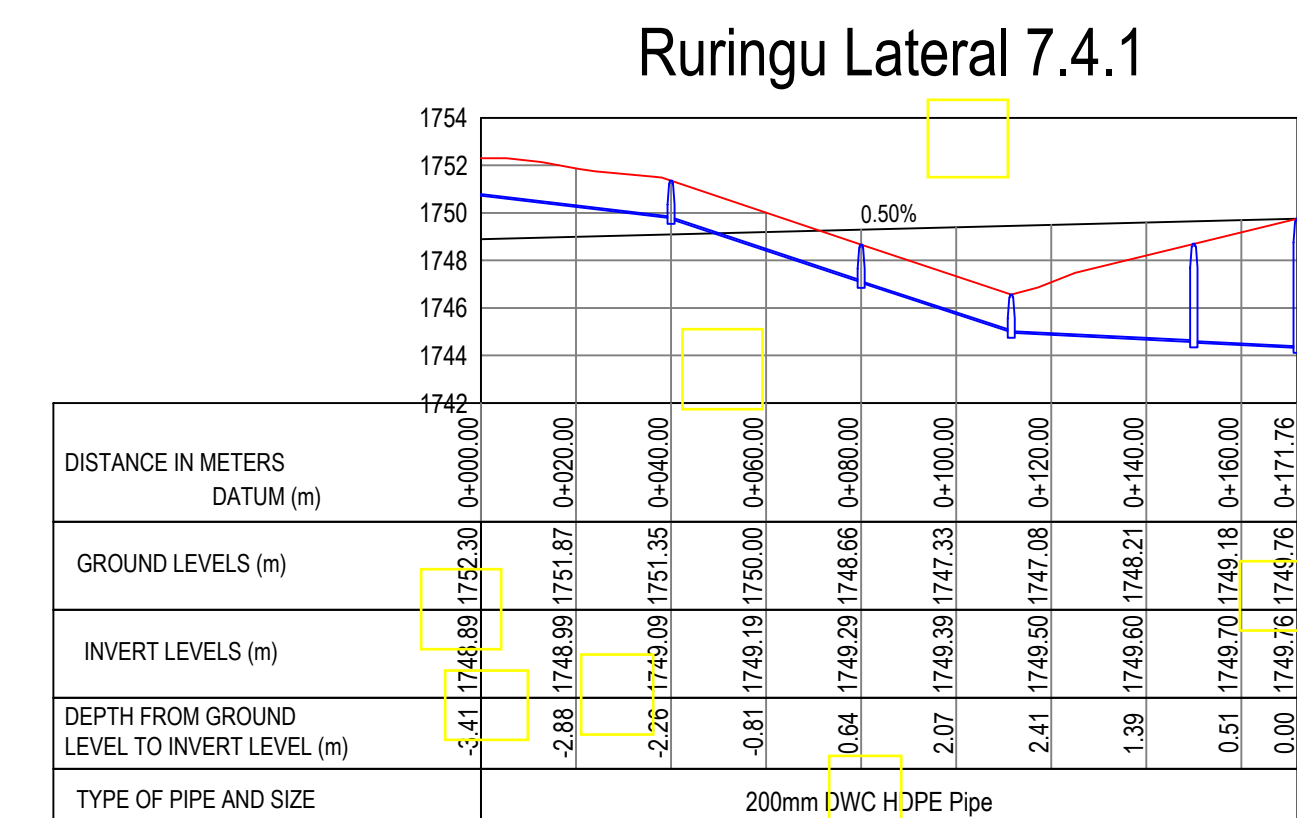
No	Revisions	Checked By	Approved By	Date	<p><b>CLIENT:</b></p>  <p>Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA</p>	<p><b>EXECUTING AGENCY:</b></p>  <p>NYERI WATER &amp; SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri. Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke</p>	 <p>REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION</p>	<p><b>PROJECT:</b></p> <p>CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)</p>	<p><b>Designed By:</b></p>  <p><b>CAS CONSULTANTS LIMITED</b> LE' MAC BUILDING, 1<sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke</p>	<p><b>Drawing Title:</b></p> <p><b>RURINGU LATERALS PLAN AND PROFILE</b></p>	<p>Designed By : M.O.O</p> <p>Drawn By : E.I</p> <p>Checked By : W.K</p> <p>Approved By : S.M.M</p> <p>Client Approval :</p> <p>Date : OCT 2024</p> <p>Drawing No :WSTF/AoD/NYERI/22</p>
1.											
2.											
3.											
4.											







## Ruringu Lateral 7.4



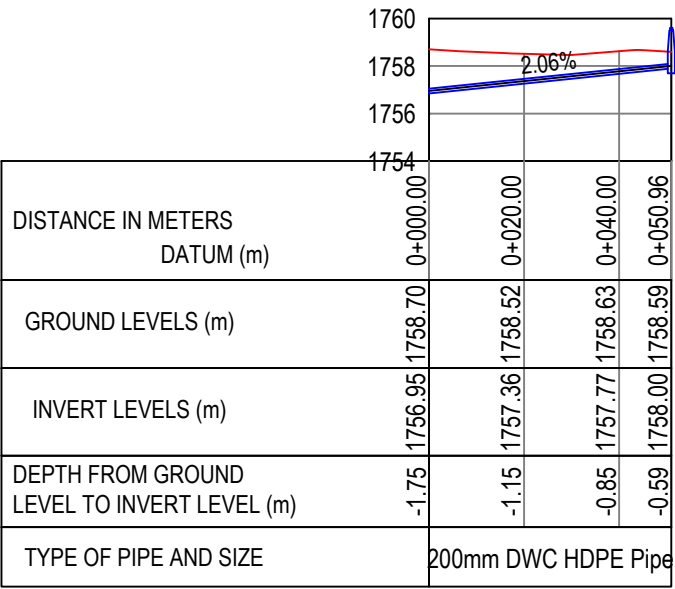
## PLAN



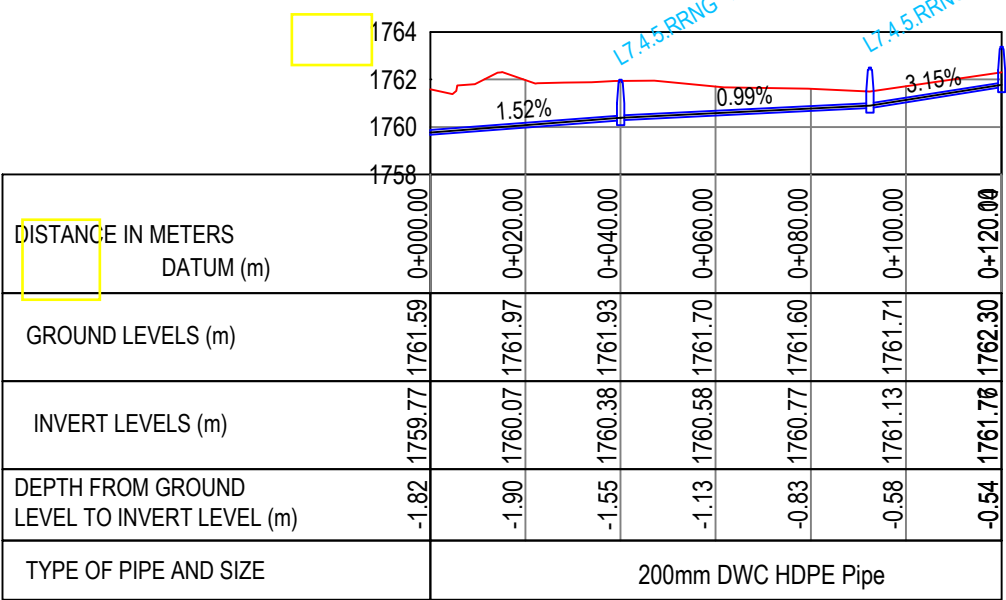
No	Revisions	Checked By	Approved By	Date	<b>CLIENT:</b>   <b>WaterFund</b> <small>WATER SECTOR TRUST FUND</small>  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	<b>EXECUTING AGENCY:</b>   <b>NYERI WATER &amp; SANITATION COMPANY</b> Opposite Nyeri Town Health Center, Nyeri. Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	 <b>REPUBLIC OF KENYA</b> <b>MINISTRY OF WATER AND SANITATION</b>	<b>PROJECT:</b>  CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	<b>Designed By:</b>   <b>CAS CONSULTANTS LIMITED</b> LE' MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>Drawing Title:</b>  <b>RURINGU LATERALS PLAN AND PROFILE</b>	<b>Designed By</b> : M.O.O <b>Drawn By</b> : E.I <b>Checked By</b> : W.K <b>Approved By</b> : S.M.M <b>Client Approval</b> : <b>Date</b> : OCT 2024 <b>Drawing No</b> :WSTF/AoD/NYERI/23
1.											
2.											
3.											
4.											



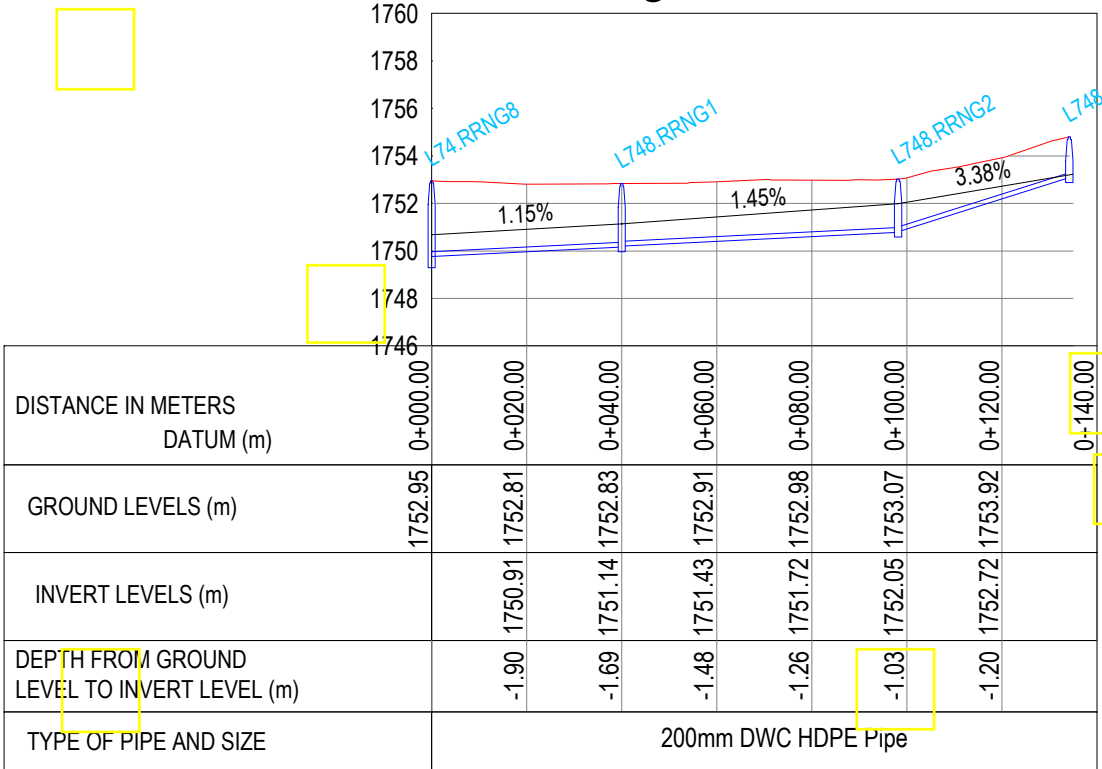
Ruringu Lateral 7.4.4







Ruringu Lateral 7.4.5



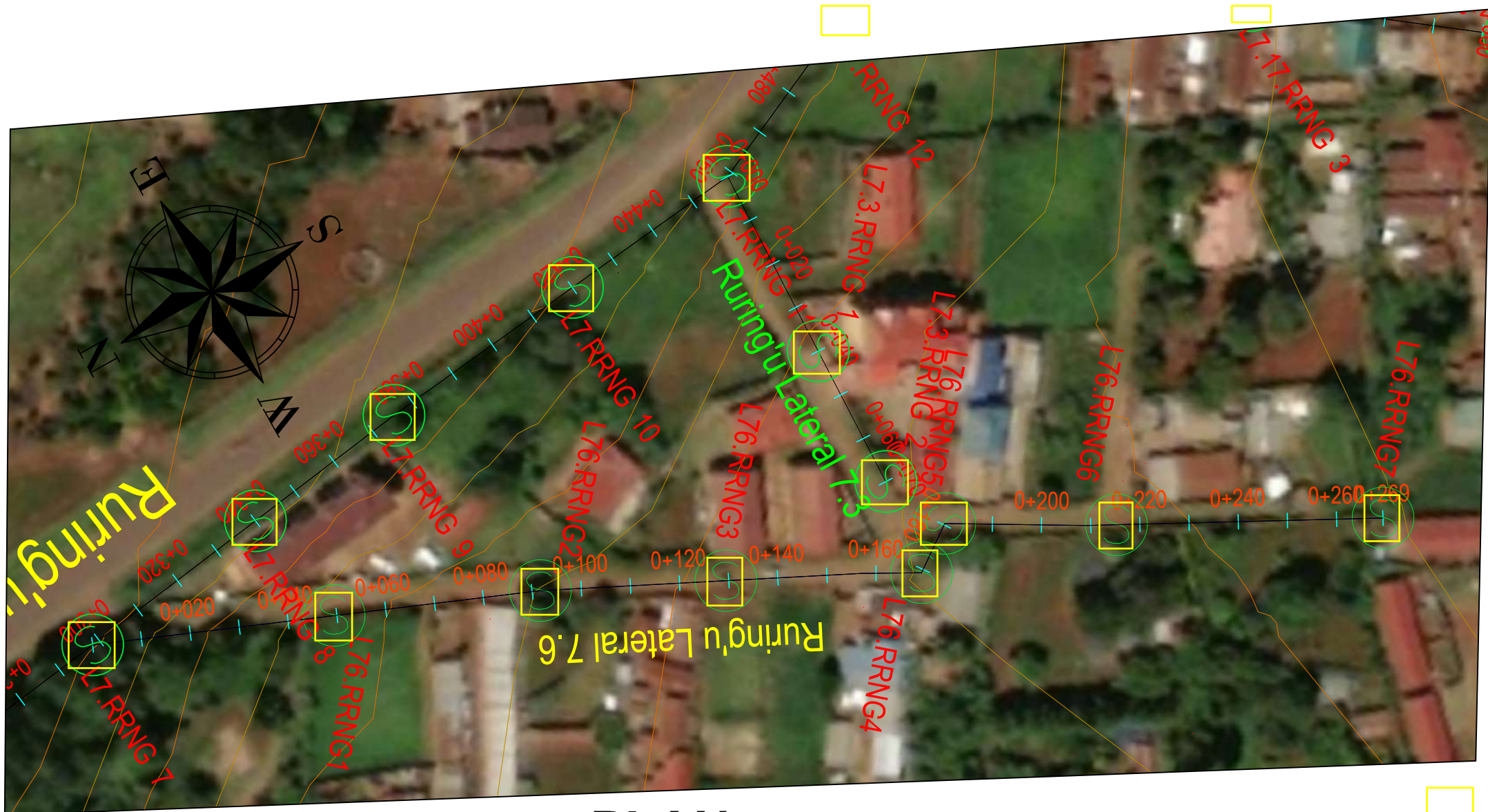
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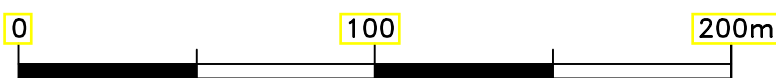
PLAN

No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:		PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  CAS CONSULTANTS LIMITED LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	RURINGU LATERALS PLAN AND PROFILE	Drawn By : E.I
2.				Checked By : W.K							
3.				Approved By : S.M.M							
4.				Client Approval :							
										Date : OCT 2024	
										Drawing No :WSTF/AoD/NYERI/24	

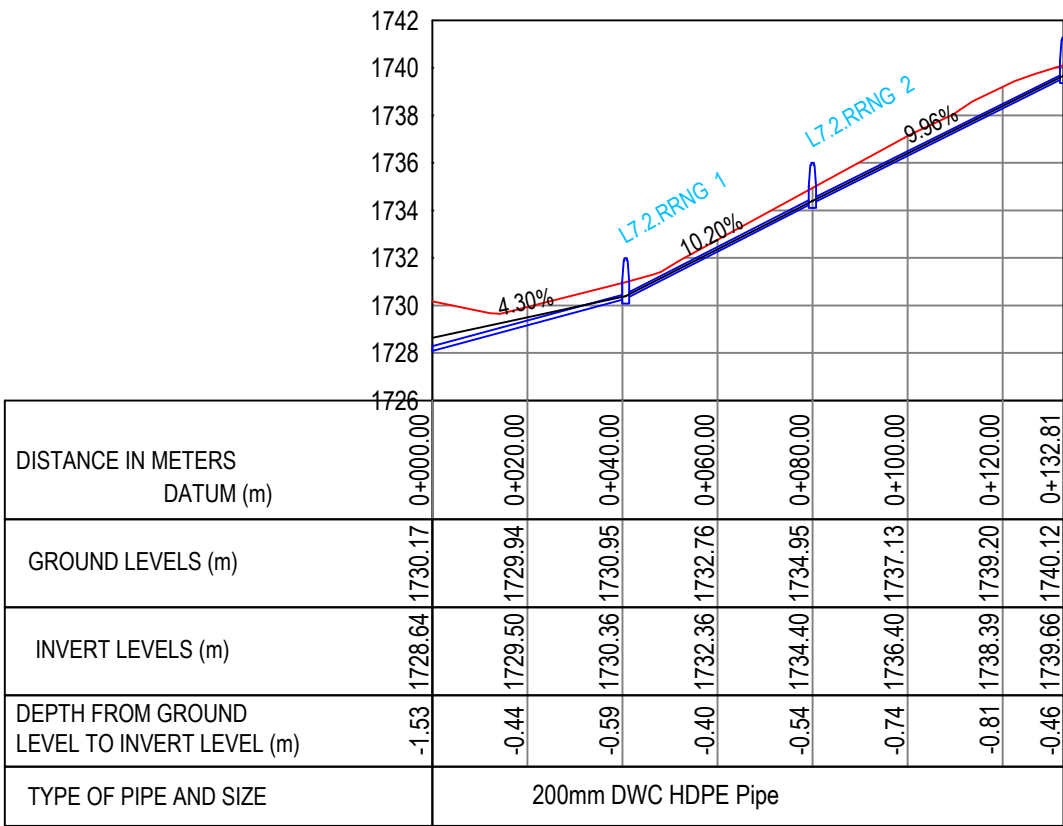




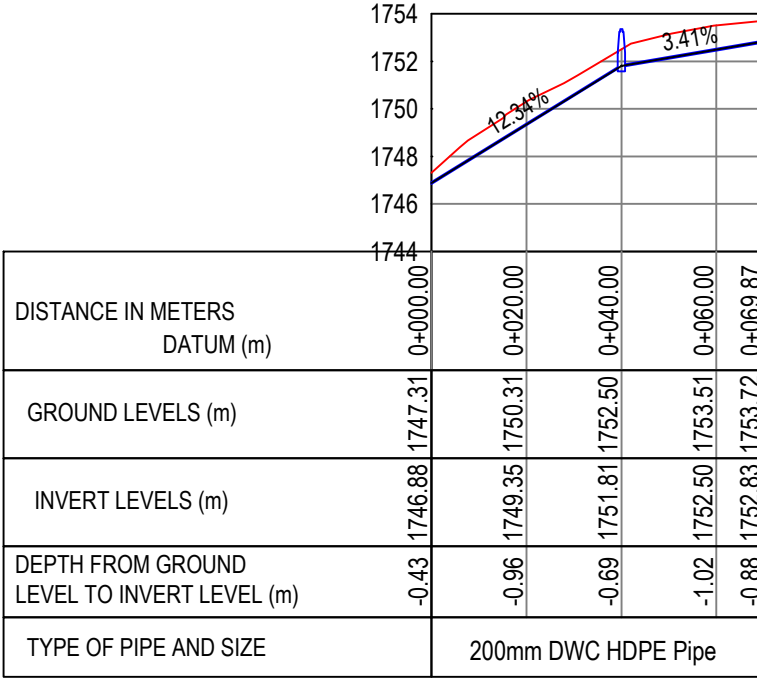
PLAN



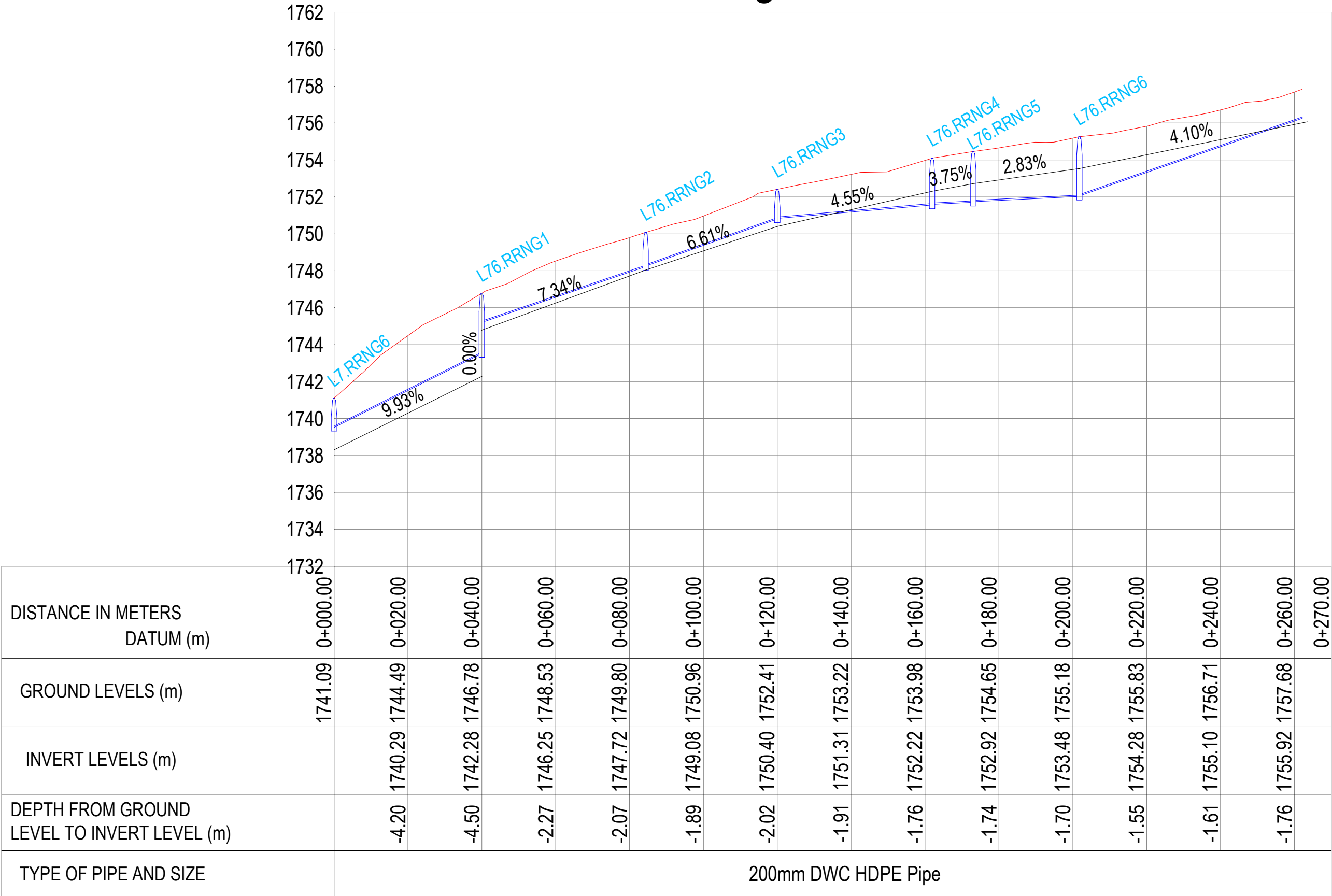
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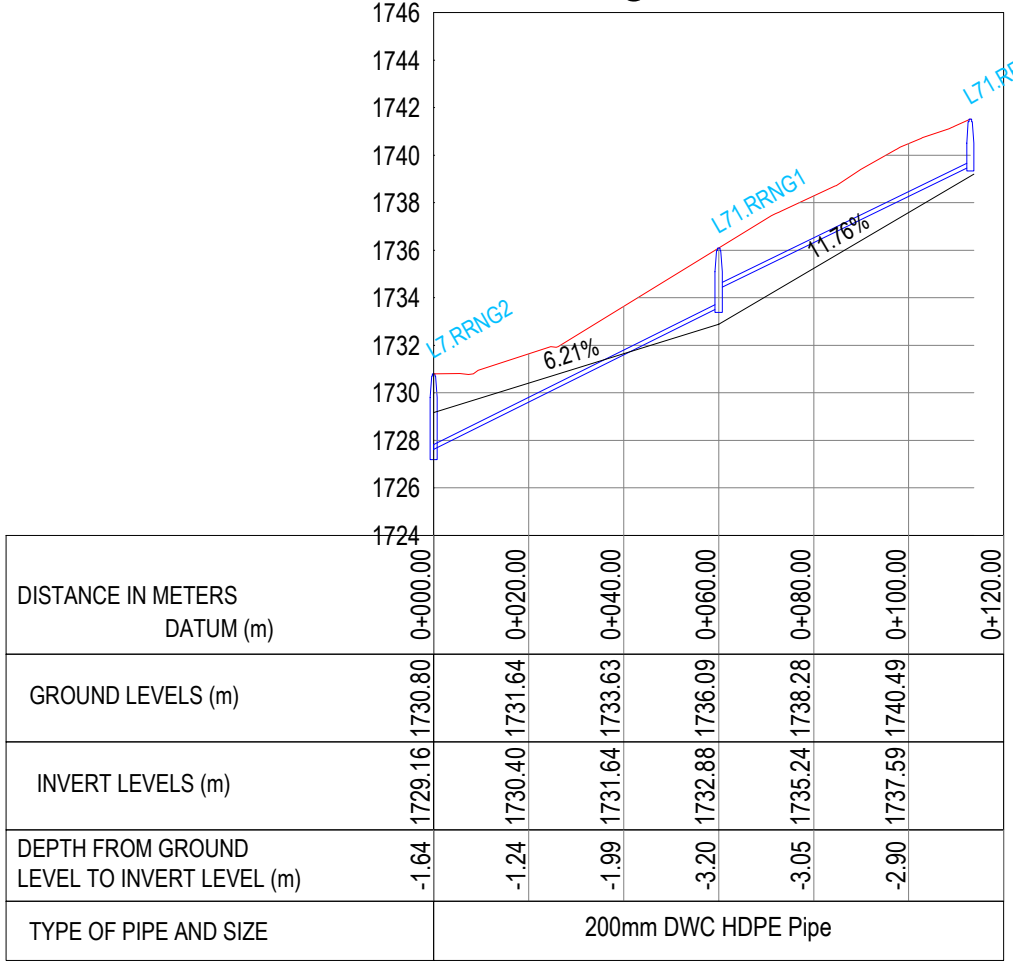
Ruringu Lateral 7.3








Ruringu Lateral 7.6

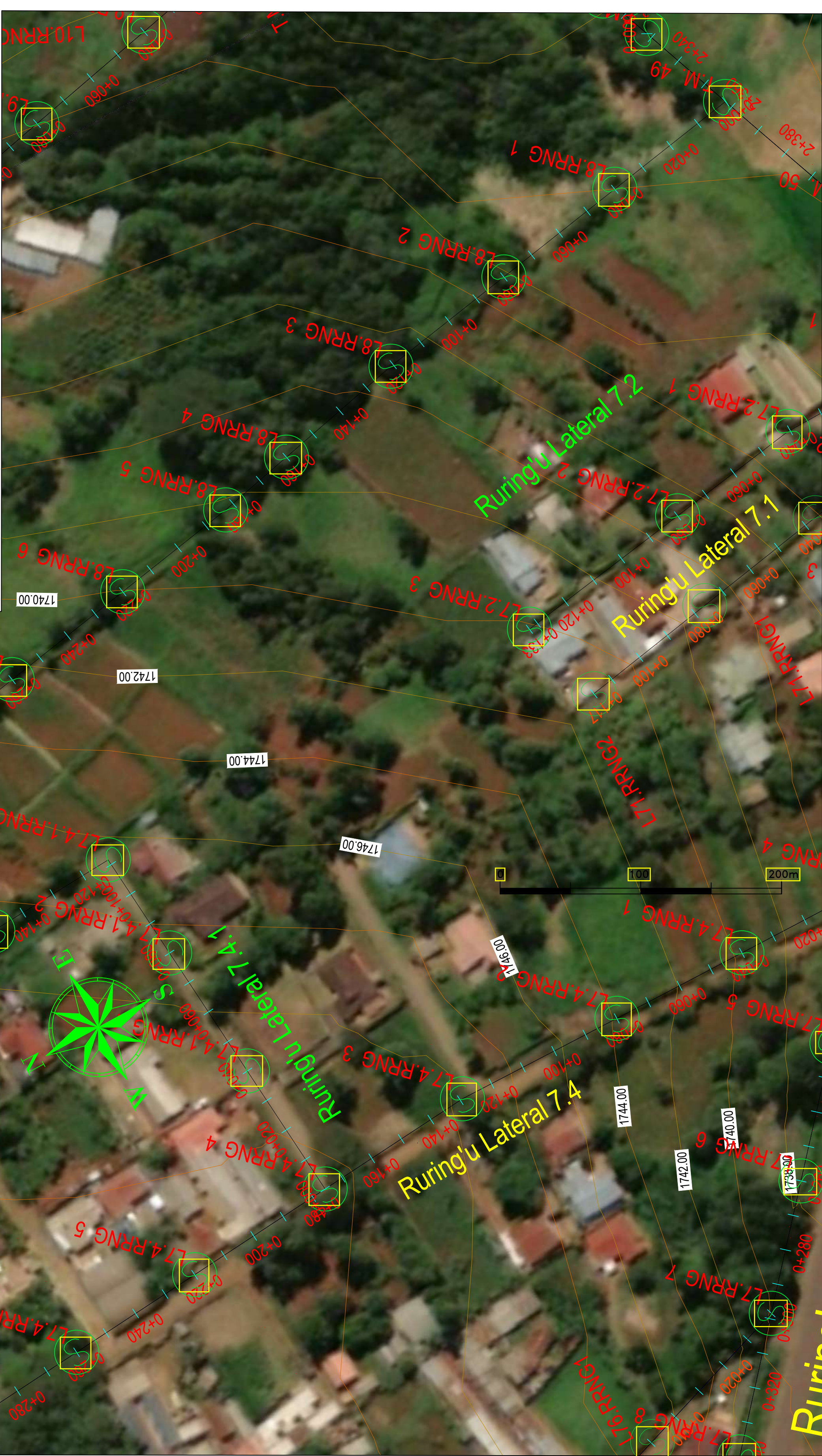
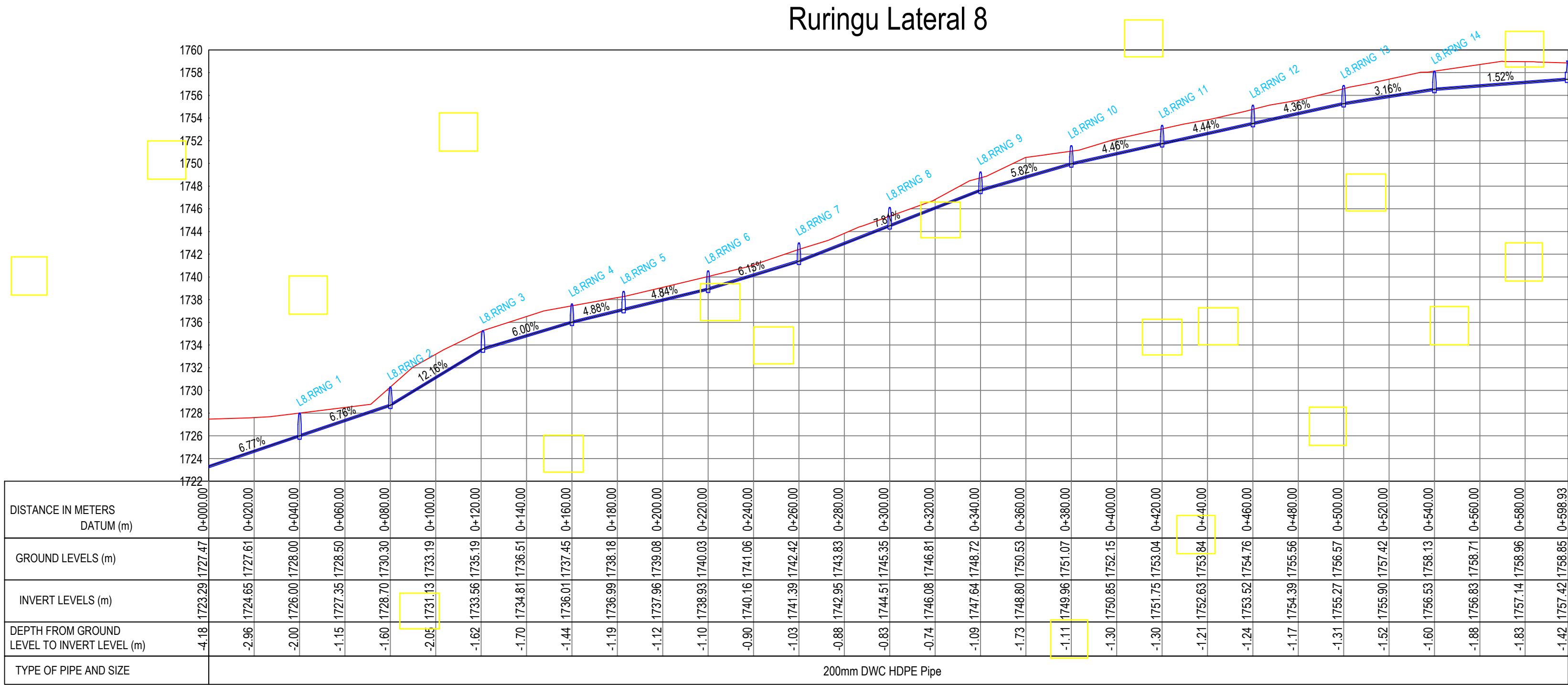







Ruringu Lateral 7.1



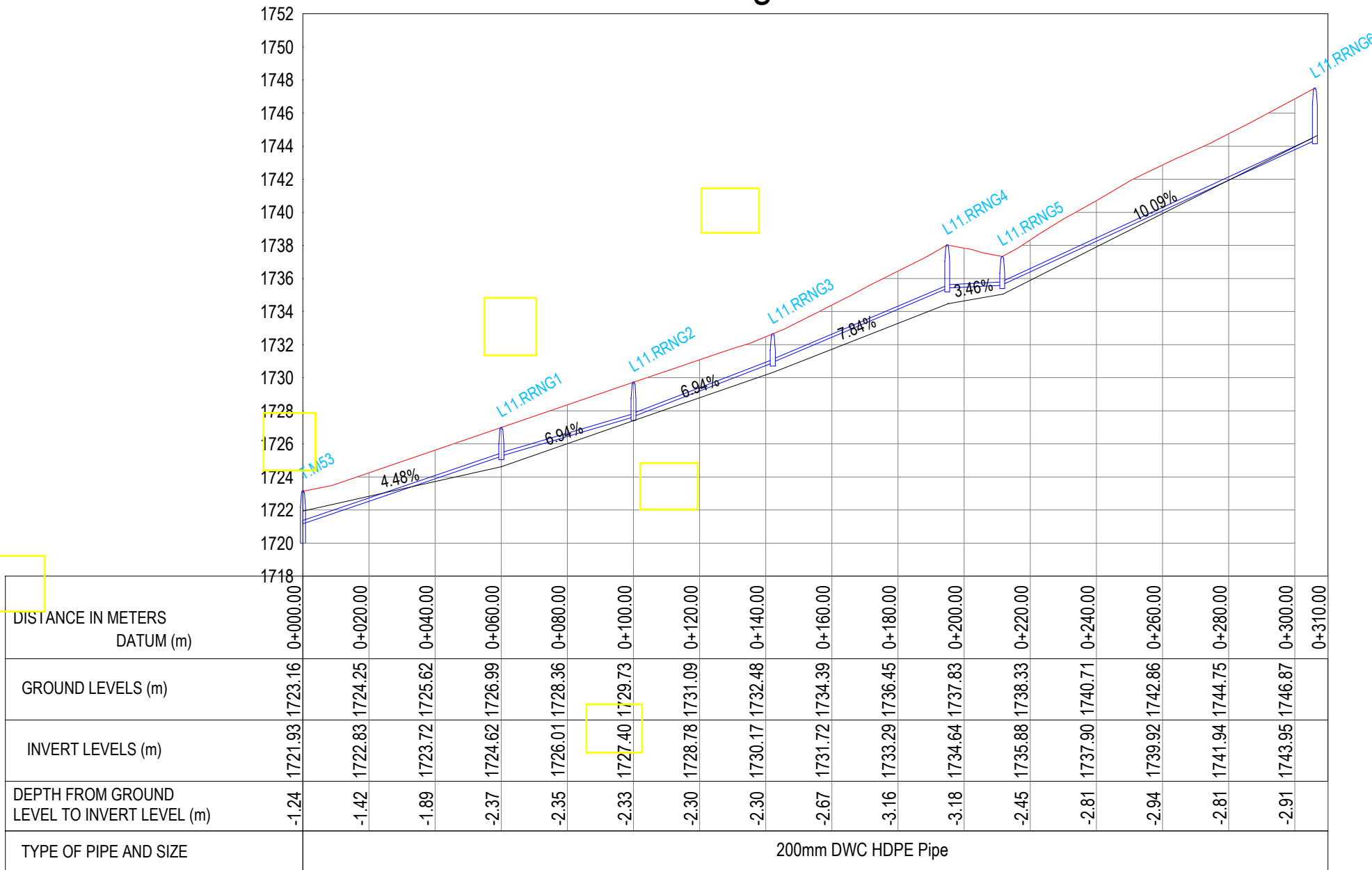
No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By	
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	  CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>RURINGU LATERALS PLAN AND PROFILE</b>	: M.O.O
2.				: E.I							
3.				: W.K							
4.				: S.M.M							
										Client Approval :	
										Date : OCT 2024	
										Drawing No :WSTF/AoD/NYERI/25	









No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O	
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	  CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>RURINGU LATERALS PLAN AND PROFILE</b>	Drawn By : E.I
2.				Checked By : W.K							
3.				Approved By : S.M.M							
4.				Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/26							



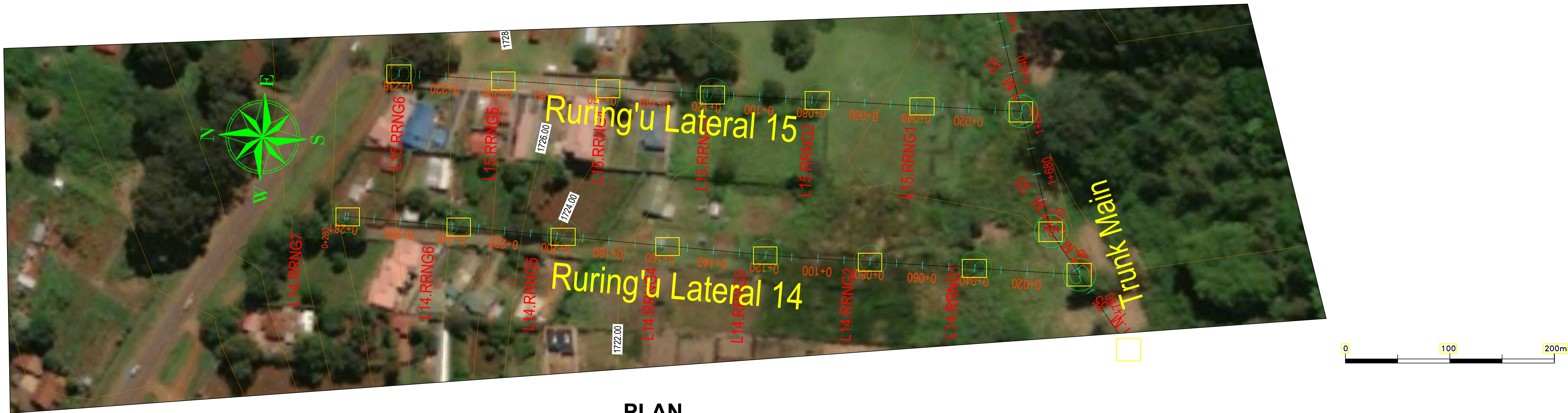


No	Revisions	Checked By	Approved By	Date	<p><b>CLIENT:</b></p>  <p>Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA</p>	<p><b>EXECUTING AGENCY:</b></p>  <p>NYERI WATER &amp; SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri. Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke</p>	 <p>REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION</p>	<p><b>PROJECT:</b></p> <p>CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)</p>	<p><b>Designed By:</b></p>  <p><b>CAS CONSULTANTS LIMITED</b> LE' MAC BUILDING, 1<sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke</p>	<p><b>Drawing Title:</b></p> <p><b>RURINGU LATERALS PLAN AND PROFILE</b></p>	<p>Designed By : M.O.O</p> <p>Drawn By : E.I</p> <p>Checked By : W.K</p> <p>Approved By : S.M.M</p> <p>Client Approval :</p> <p>Date : OCT 2024</p> <p>Drawing No :WSTF/AoD/NYERI/27</p>
1.											
2.											
3.											
4.											



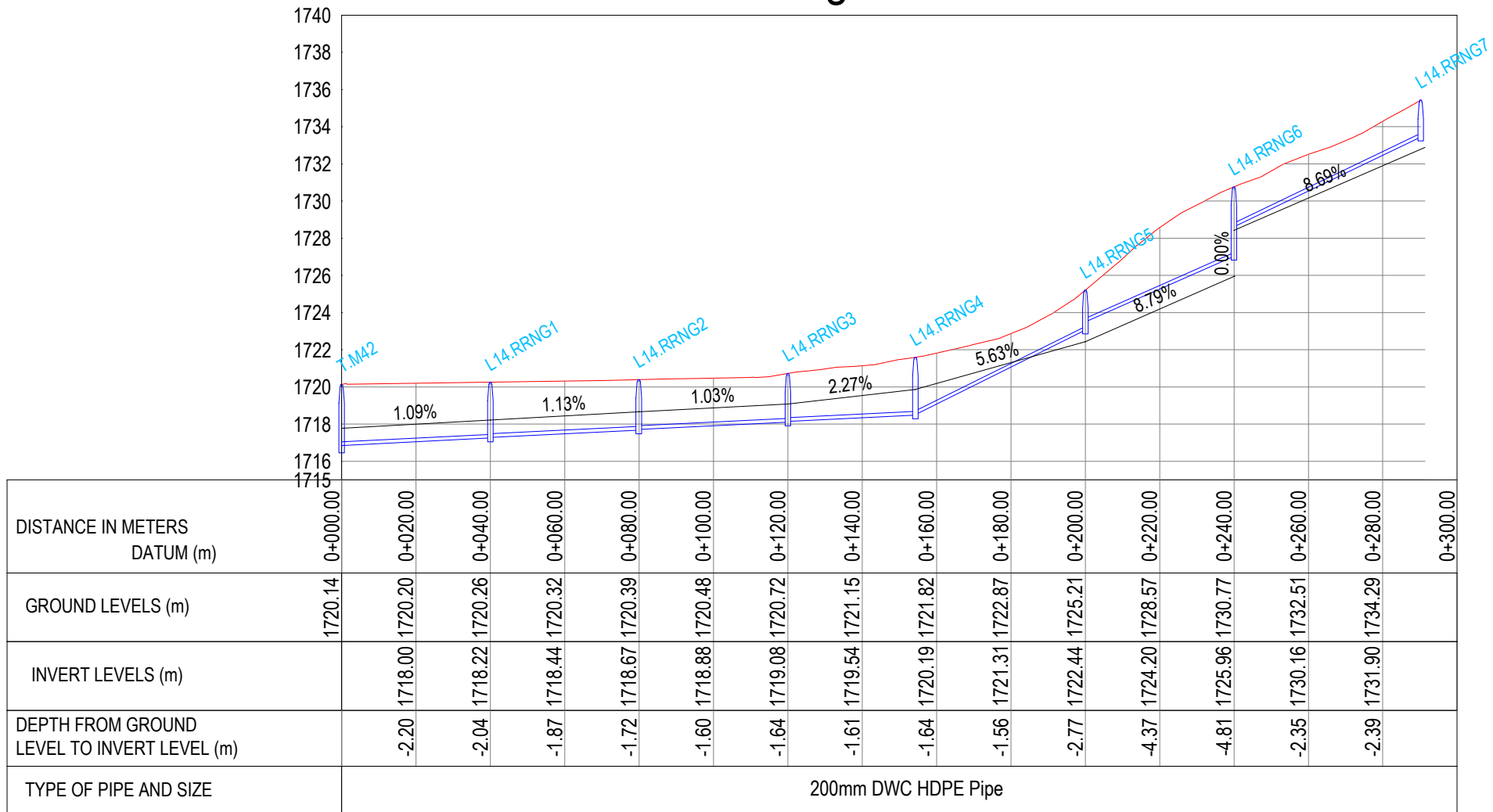




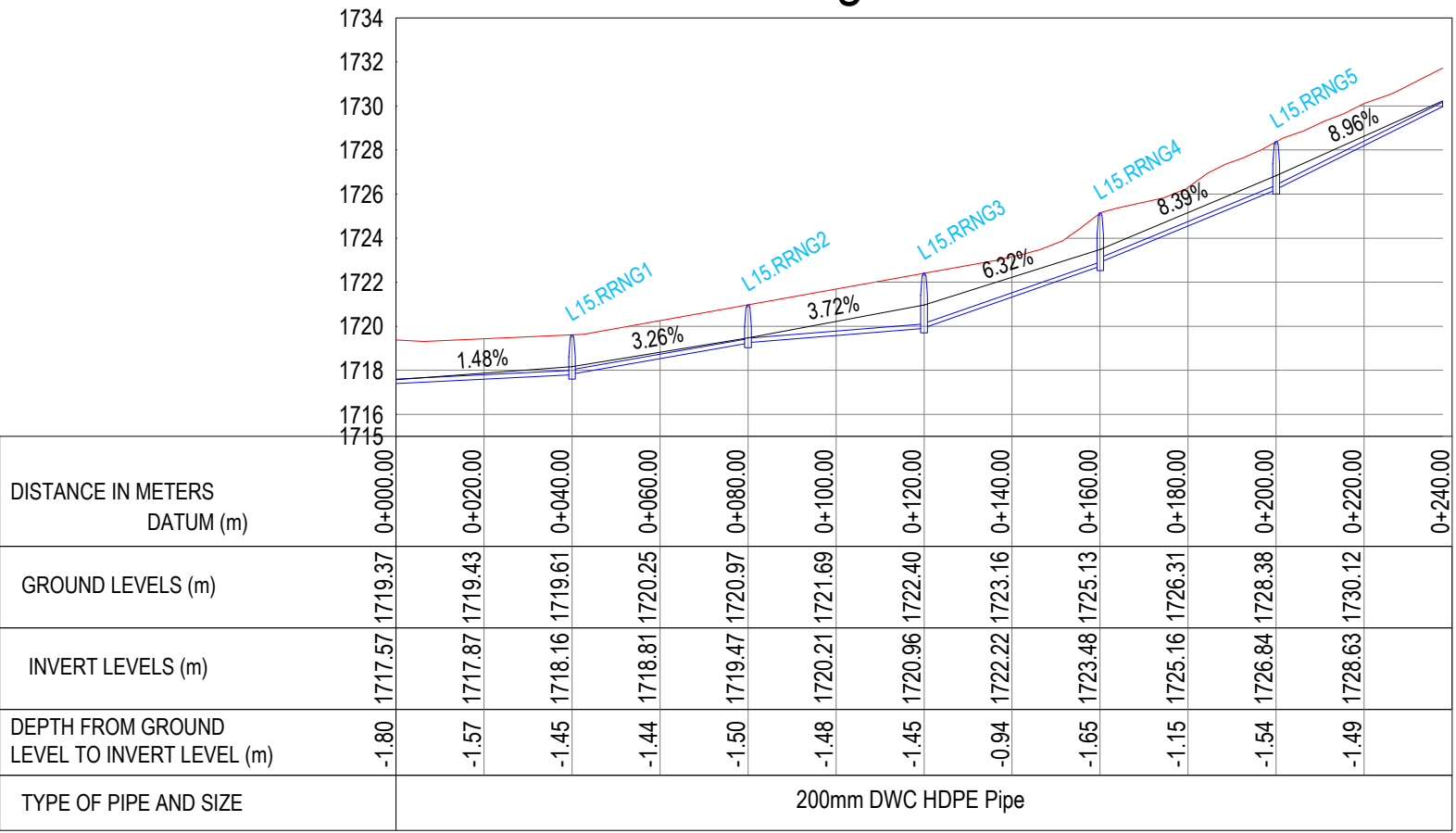






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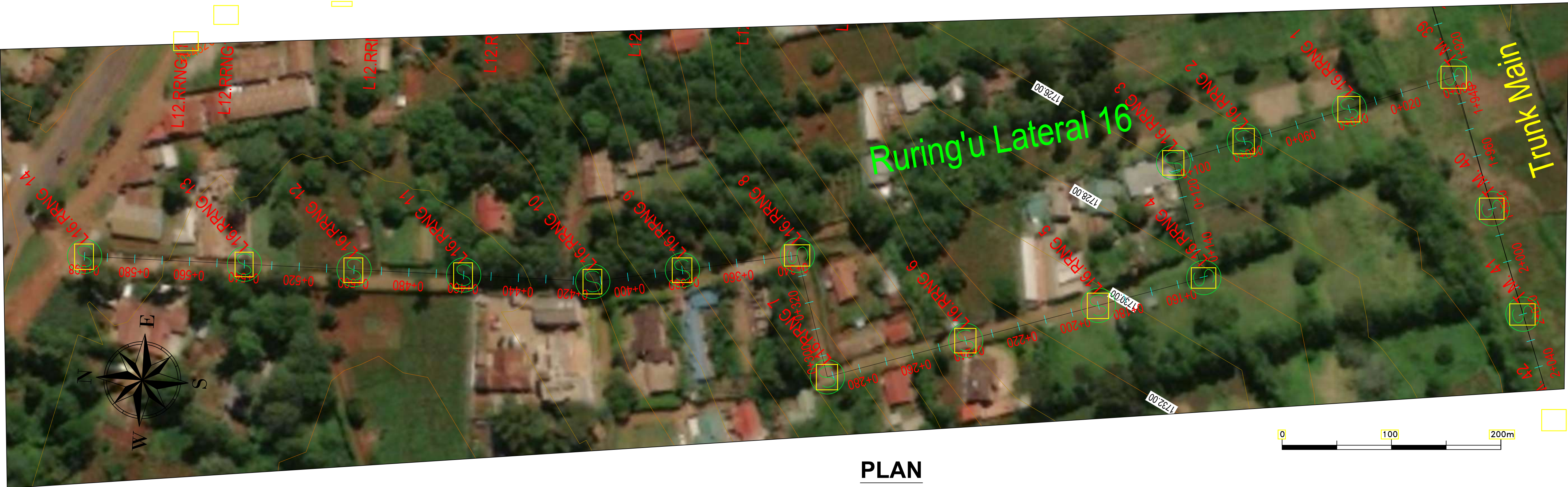


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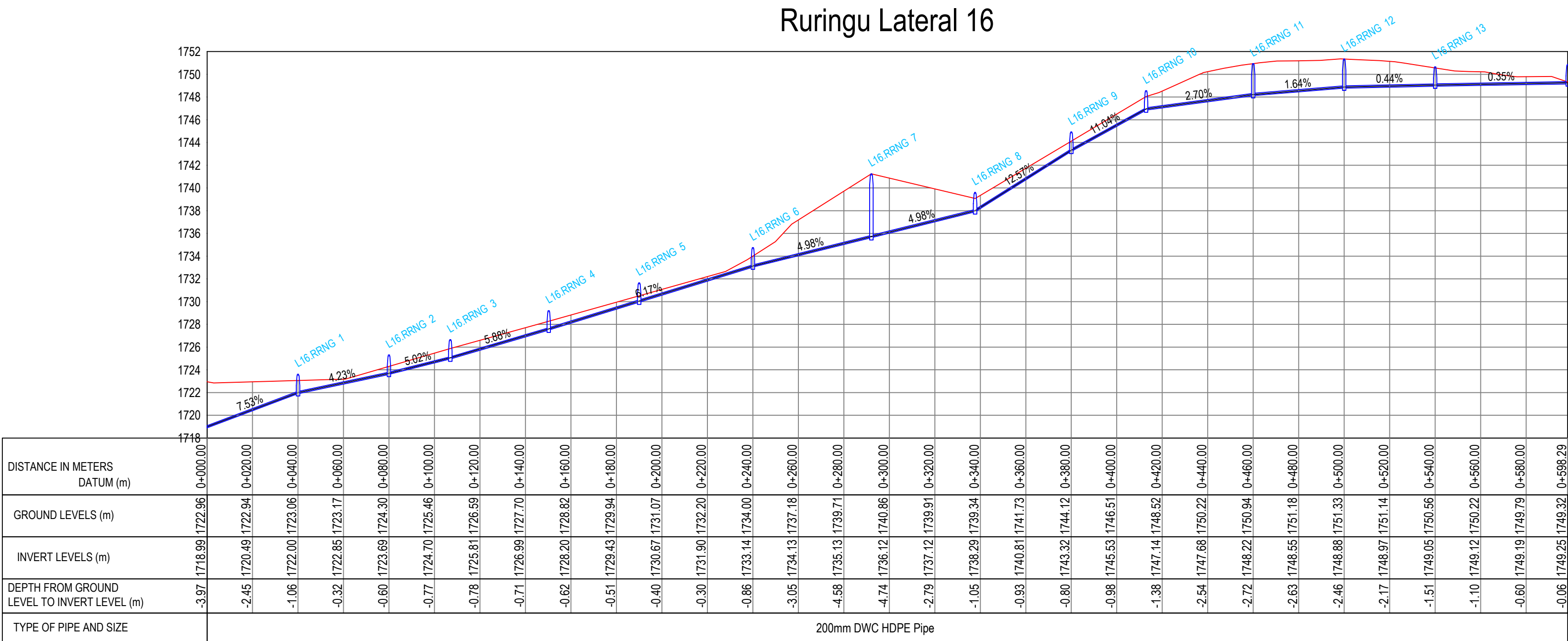






No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					 Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	 NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	 REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	 CAS CONSULTANTS LIMITED LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	RURINGU LATERALS PLAN AND PROFILE	Drawn By : E.I
2.										Checked By : W.K
3.										Approved By : S.M.M
4.										Client Approval : Date : OCT 2024 Drawing No : WSTF/AoD/NYERI/29





PLAN

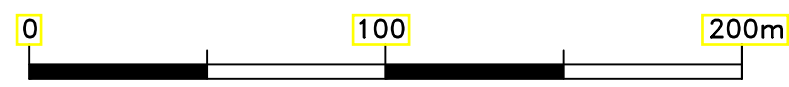






No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					<div><p>Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA</p></div>	<div><p>NYERI WATER &amp; SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke</p></div>	<div><p>REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION</p></div>	<div><p>CAS CONSULTANTS LIMITED LE MAC BUILDING, 1<sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke</p></div>	RURINGU LATERALS PLAN AND PROFILE	Drawn By : E.I
2.				Checked By : W.K						
3.				Approved By : S.M.M						
4.				Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/30						





PLAN

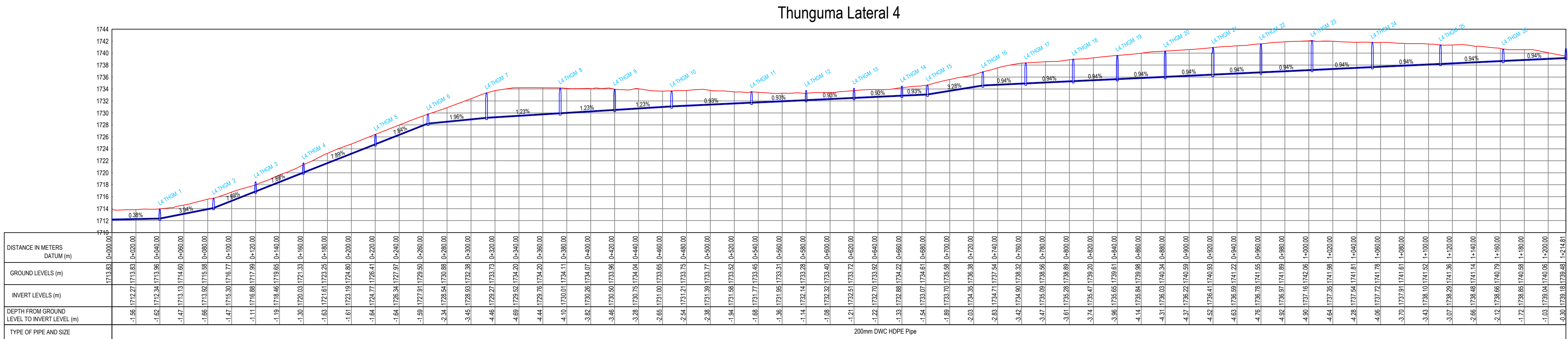


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1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>RIAMUKURWE LATERALS PLAN AND PROFILE</b>	Drawn By : E.I	
2.				Checked By : W.K								
3.				Approved By : S.M.M								
4.				Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/31								









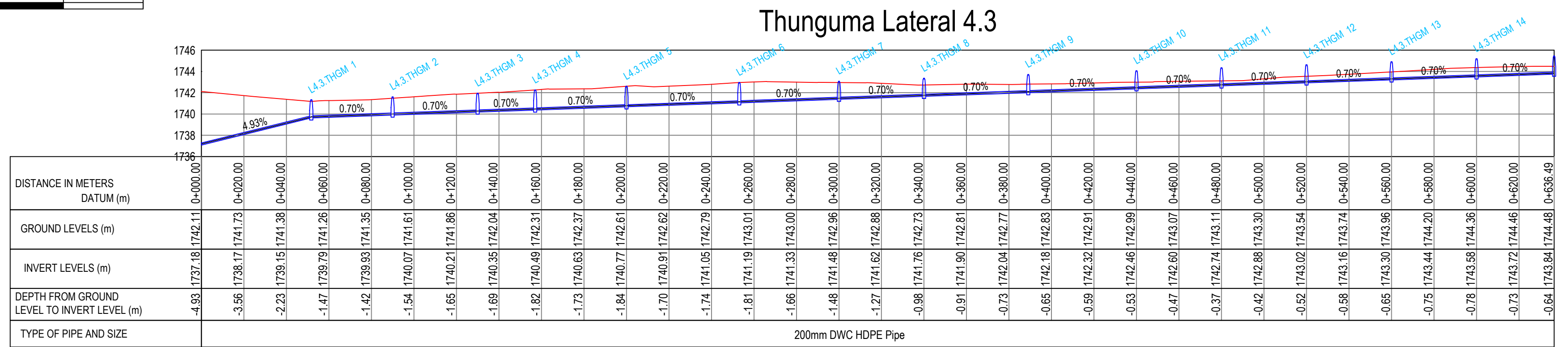
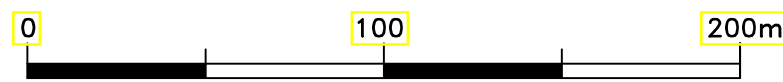
PLAN







Thunguma Lateral 4.1	
DISTANCE IN METERS DATUM (m)	0+000.00 0+500.00 0+900.00 1+200.00
GROUND LEVELS (m)	1738.69 1740.20 1740.51 1739.81
INVERT LEVELS (m)	1738.69 1740.20 1740.51 1739.81
DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)	0.00 0.00 0.00 0.00
TYPE OF PIPE AND SIZE	200mm DWV HDPE Pipe

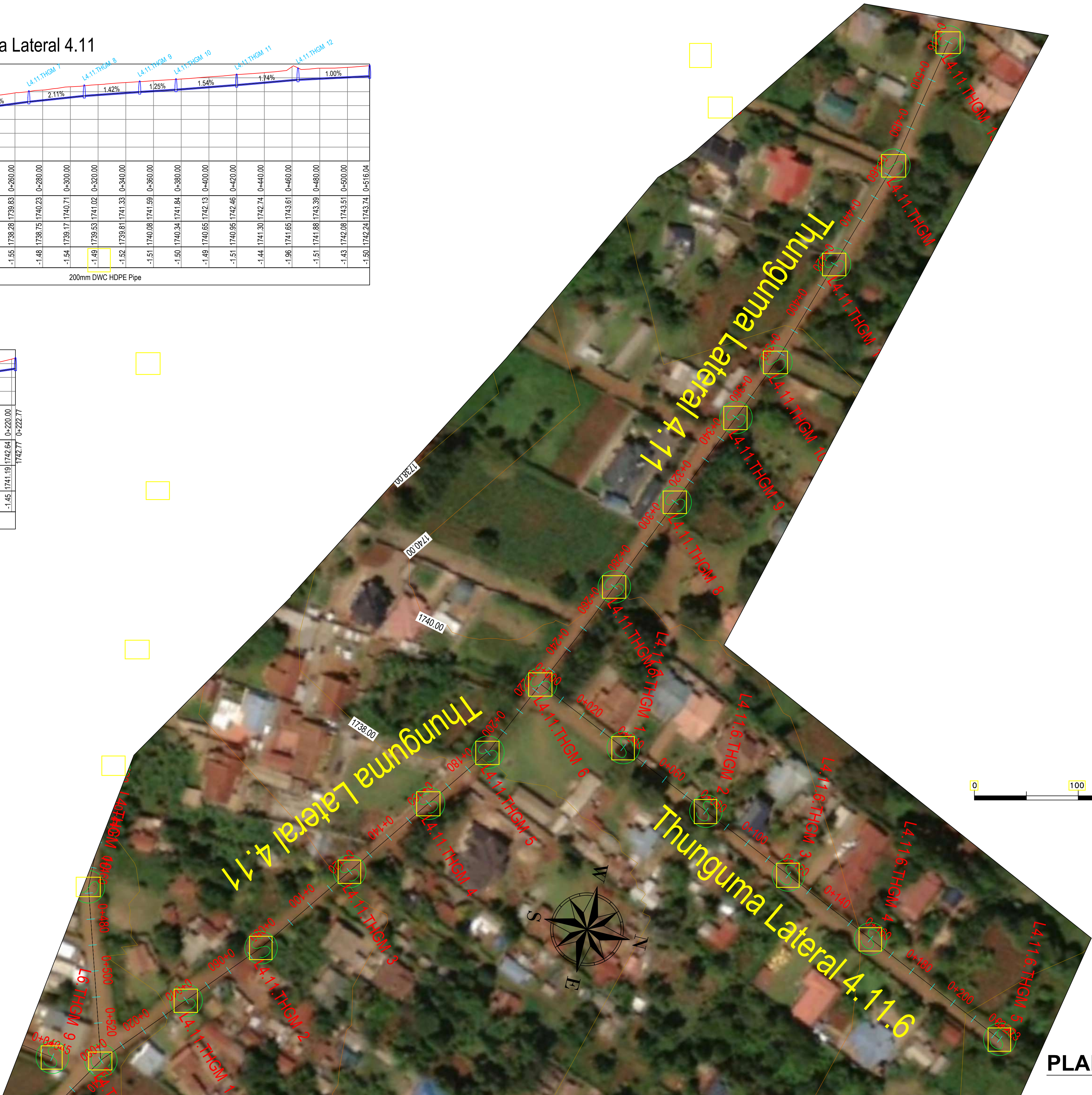
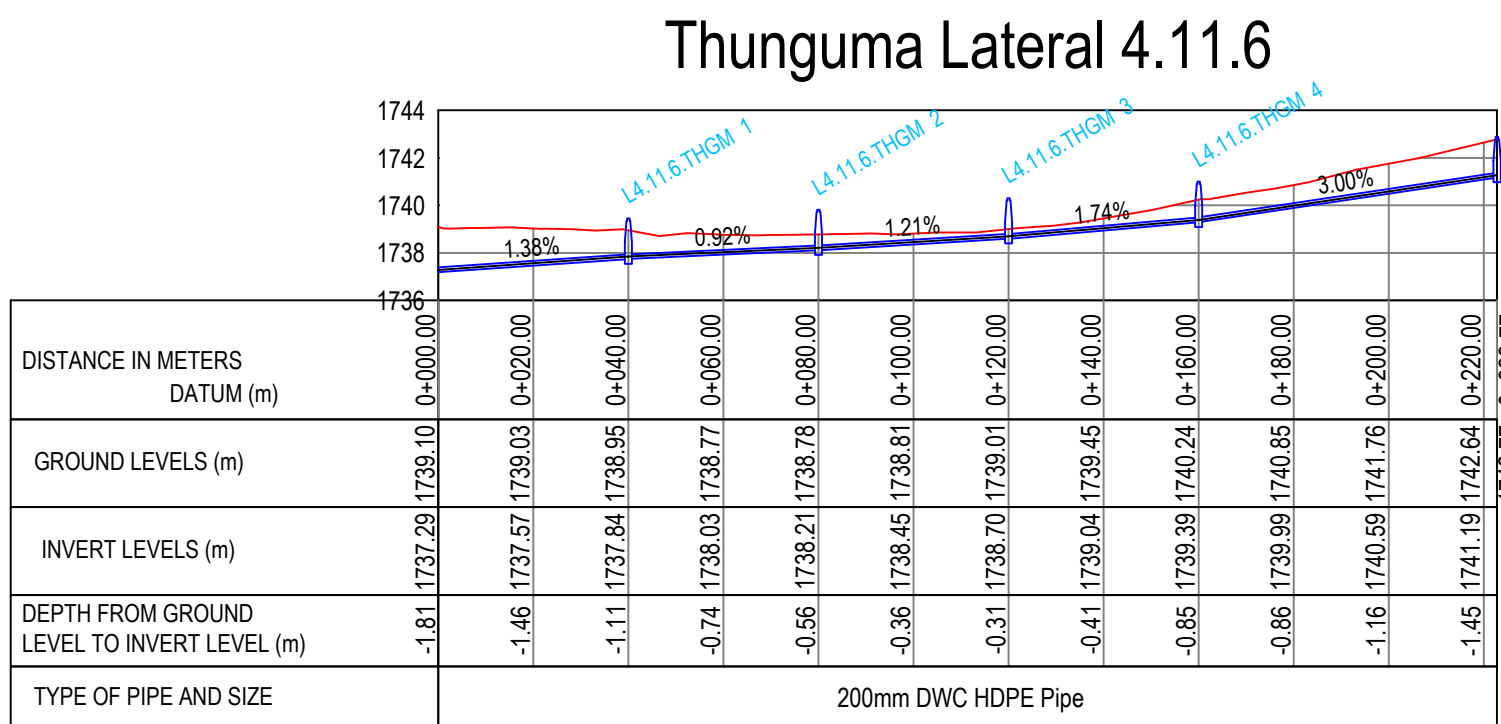
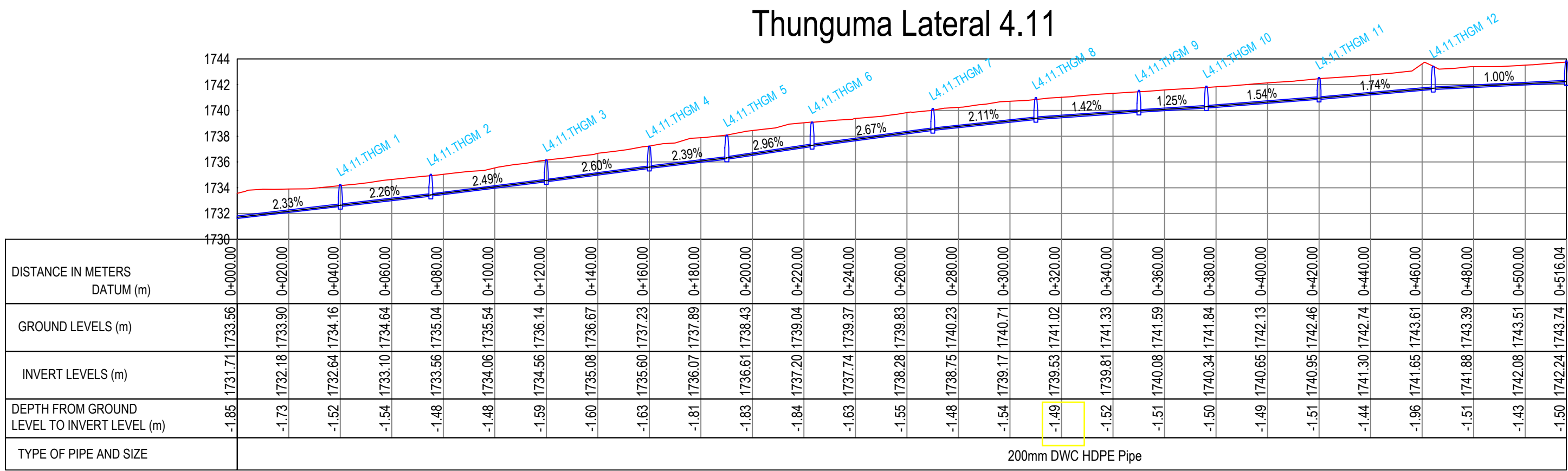
No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:		PROJECT:	Designed By:		Drawing Title:	Designed By : M.O.O
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>THUNGUMA LATERALS PLAN AND PROFILE</b>	Drawn By : E.I.	
2.				Checked By : W.K								
3.				Approved By : S.M.M								
4.				Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/32								










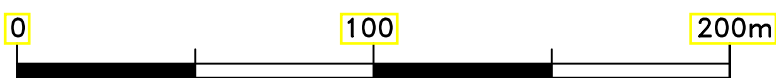
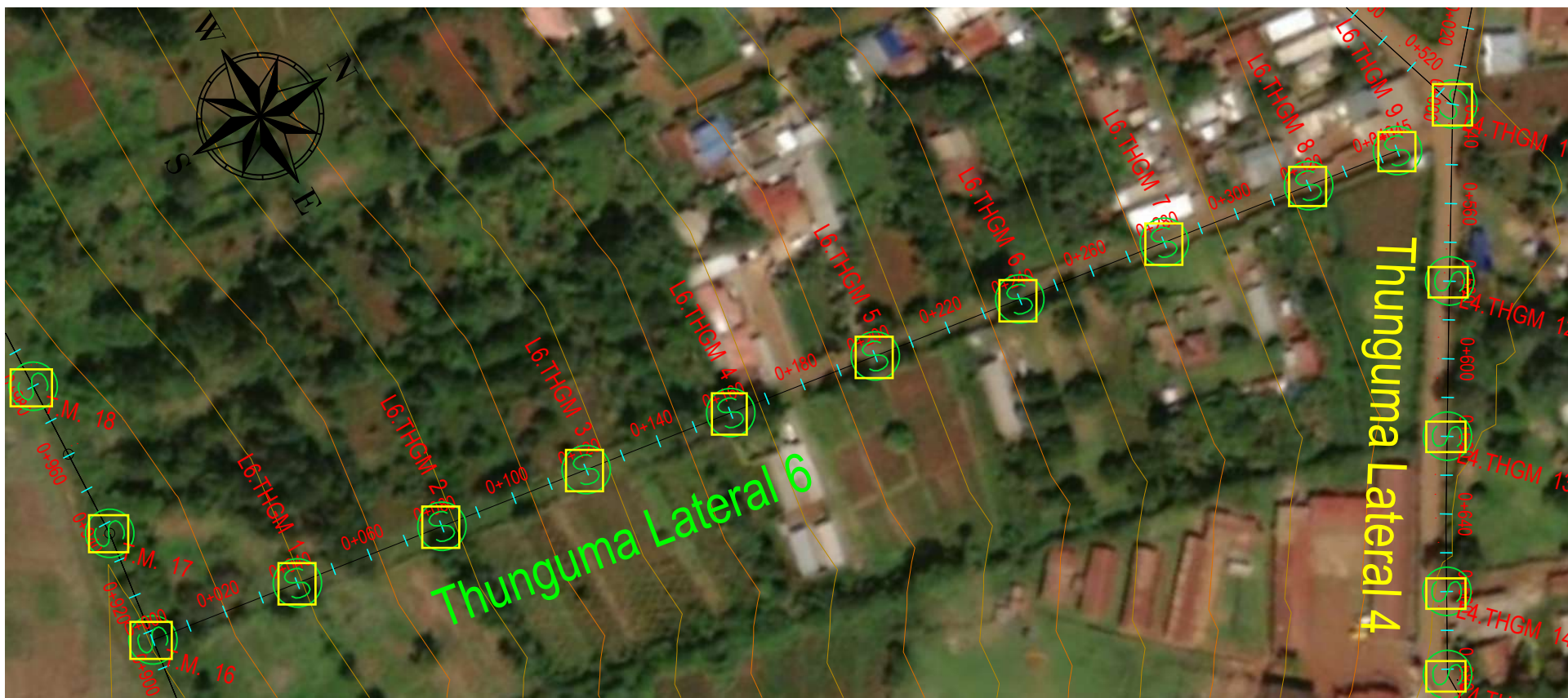
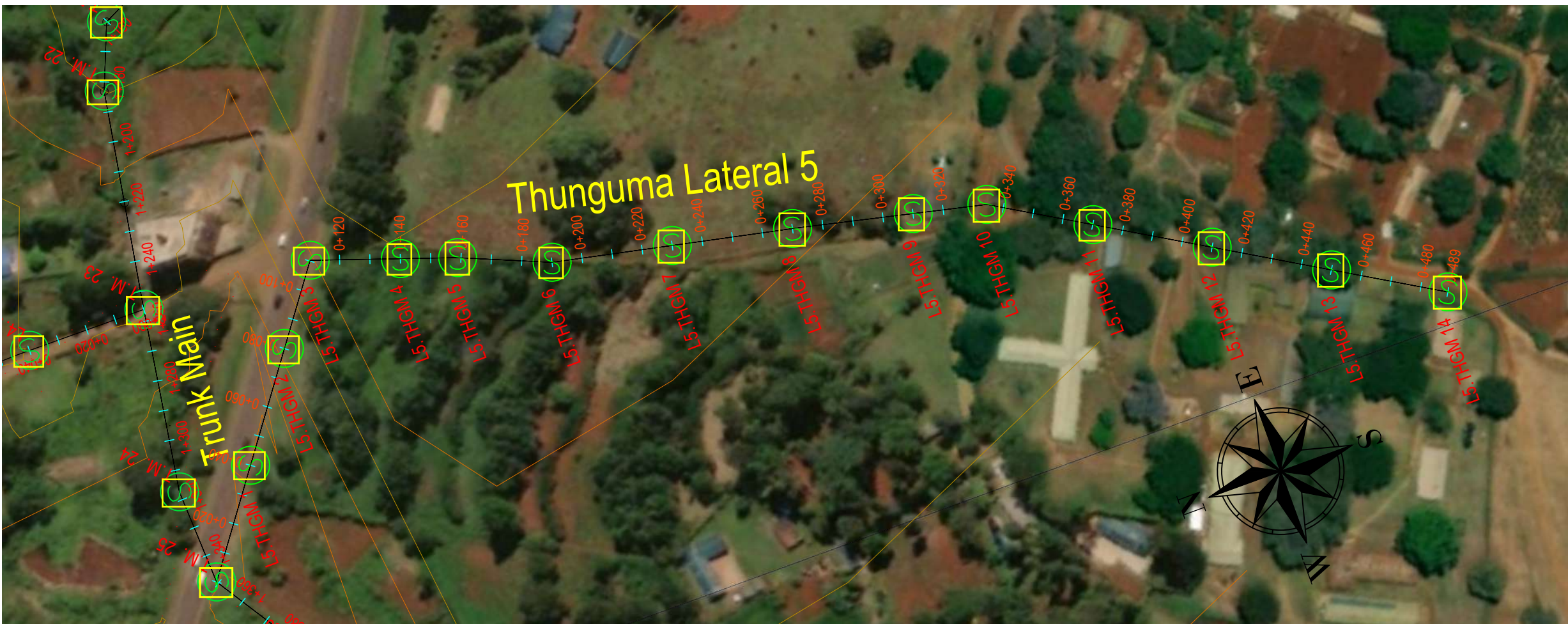
No	Revisions	Checked By	Approved By	Date	<b>CLIENT:</b>    Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	<b>EXECUTING AGENCY:</b>    NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri. Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	<b>PROJECT:</b>  CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	<b>Designed By:</b>    <b>CAS CONSULTANTS LIMITED</b> LE' MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>Drawing Title:</b>  <b>THUNGUMA LATERALS PLAN AND PROFILE</b>	Designed By : M.O.O Drawn By : E.I Checked By : W.K Approved By : S.M.M Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/33
1.											
2.											
3.											
4.											



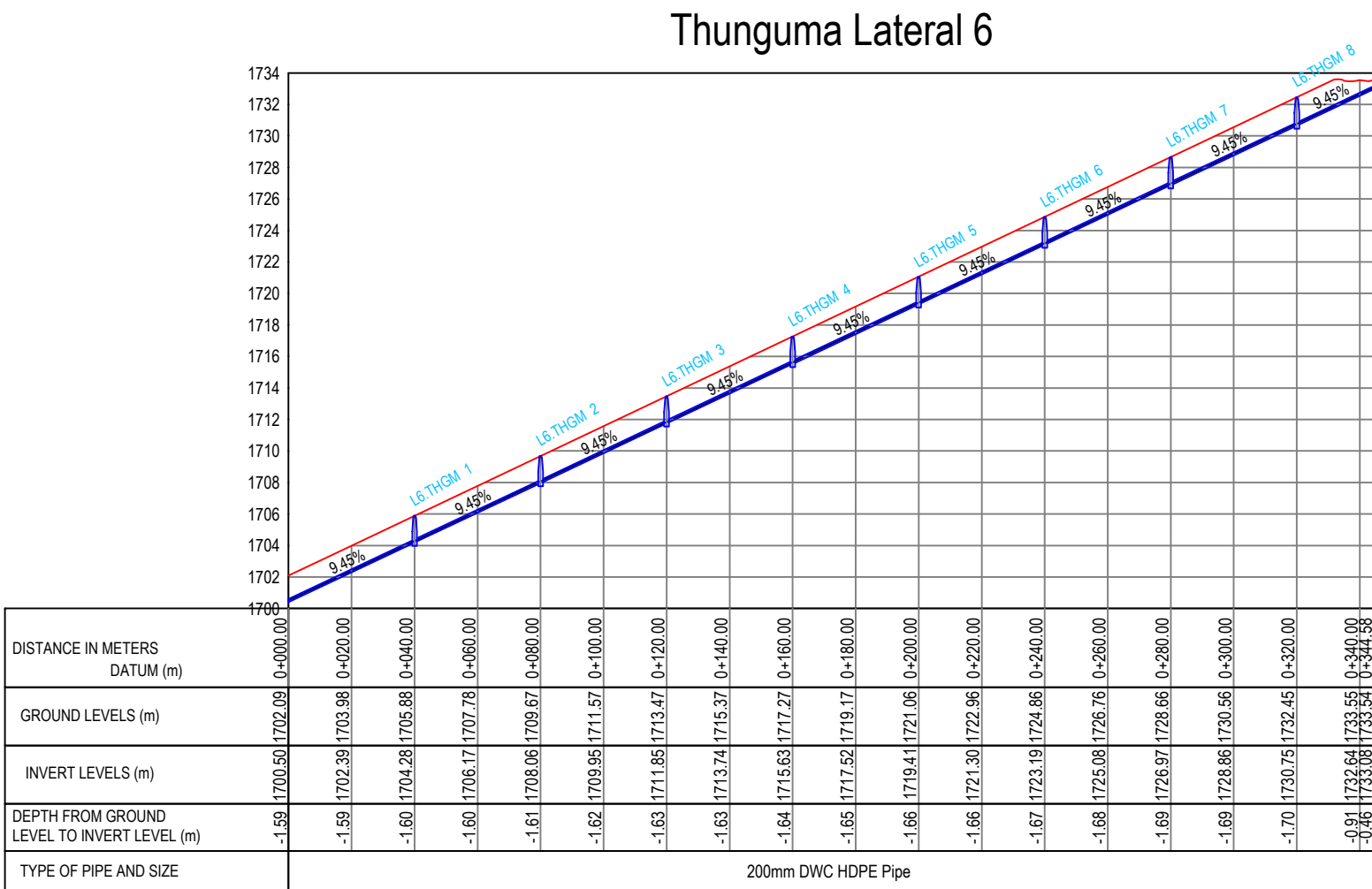






No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	  CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	Drawn By : E.I
2.				Checked By : W.K						
3.				Approved By : S.M.M						
4.				Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/34						



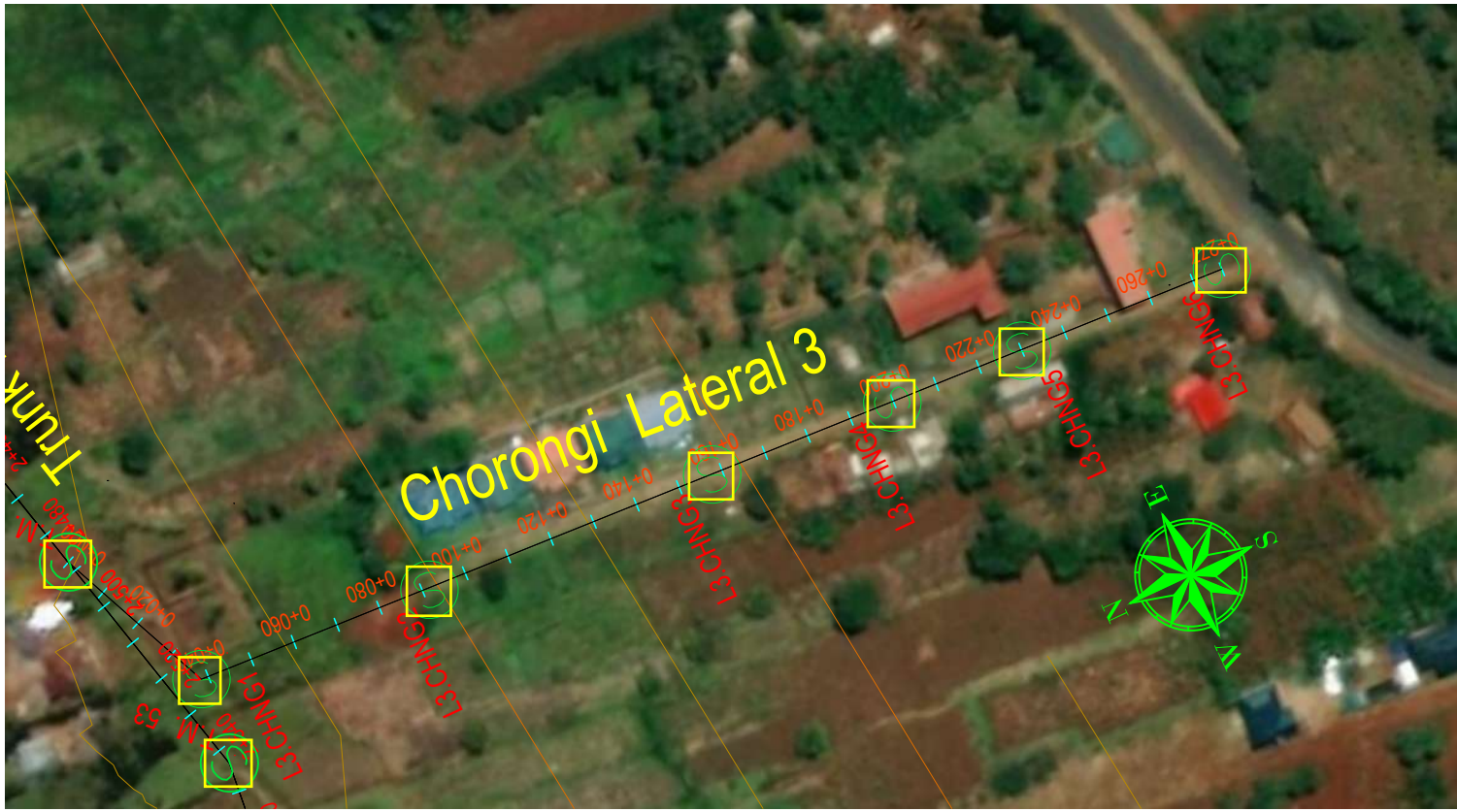


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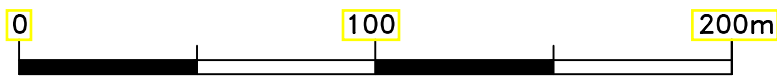






No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:		PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					 Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	 NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	 REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	 CAS CONSULTANTS LIMITED LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	THUNGUMA LATERALS PLAN AND PROFILE	Drawn By : E.I
2.											Checked By : W.K
3.											Approved By : S.M.M
4.											Client Approval : Date : OCT 2024 Drawing No : WSTF/AoD/NYERI/35





PLAN

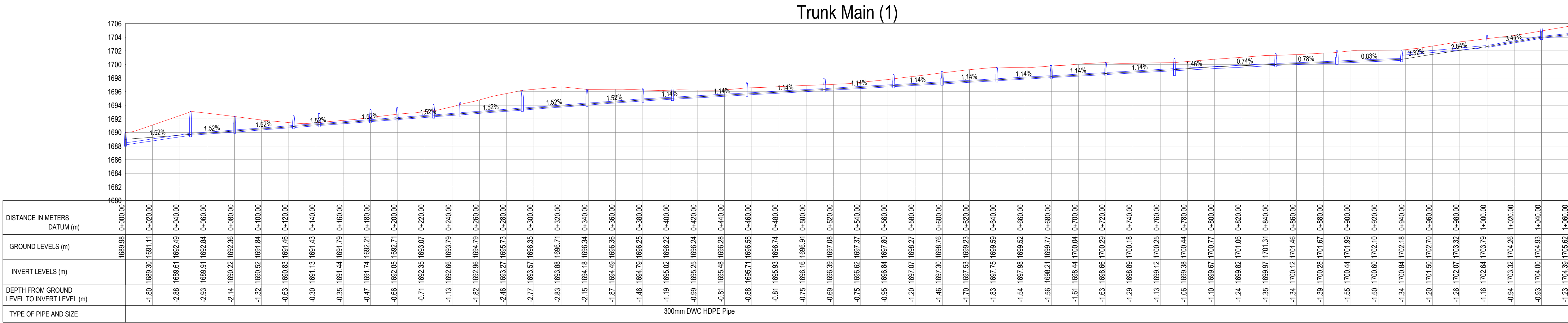







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1.					 Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	 NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	 REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	 <b>CAS CONSULTANTS LIMITED</b> LE' MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>CHORONGI LATERALS PLAN AND PROFILE</b>	Drawn By : E.I
2.											Checked By : W.K
3.											Approved By : S.M.M
4.											Client Approval : Date : OCT 2024 Drawing No : WSTF/AoD/NYERI/36



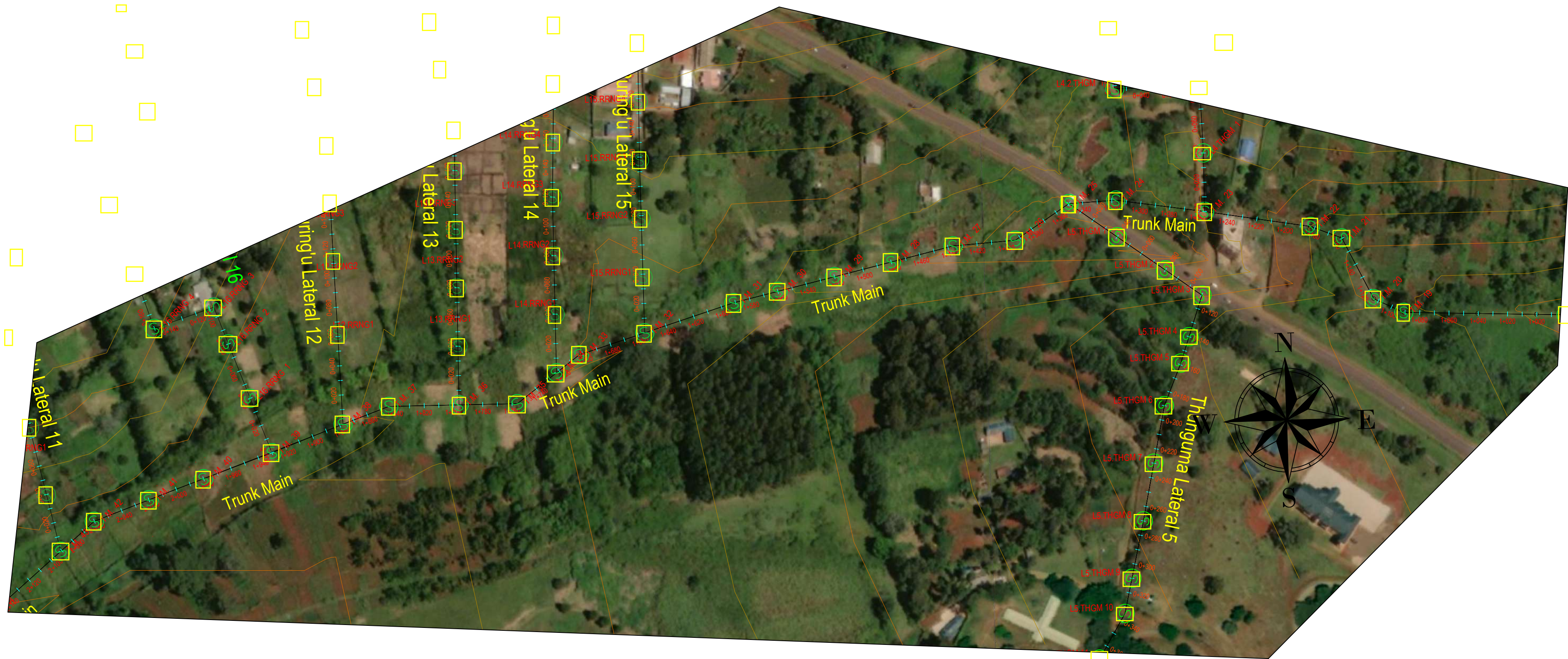


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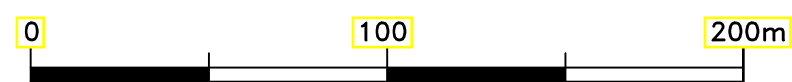


No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By : M.O.O
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	  CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	Drawn By : E.I.
2.				Checked By : W.K						
3.				Approved By : S.M.M						
4.				Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/37						

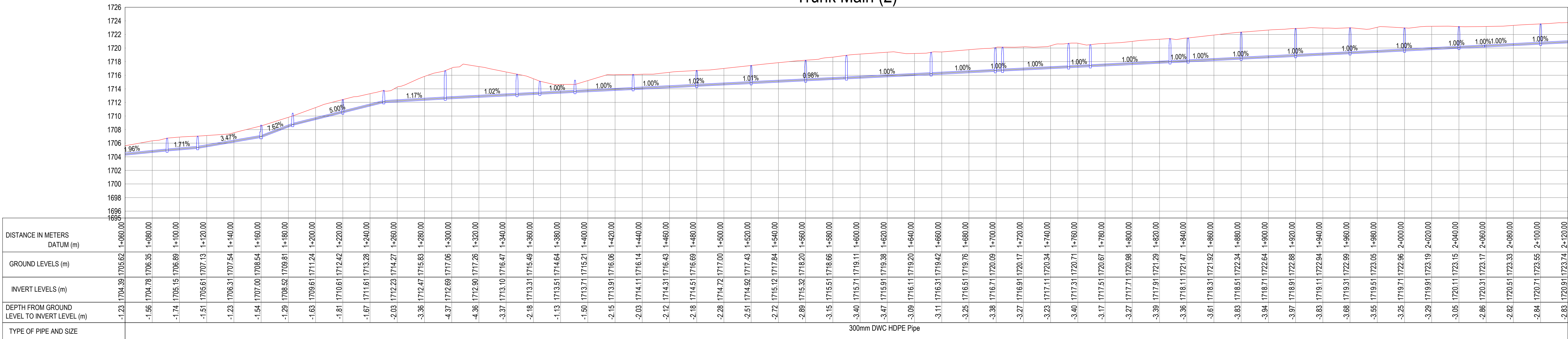








PLAN



Trunk Main (2)

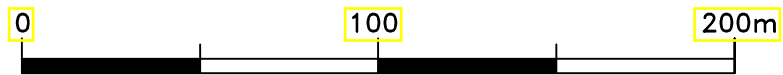


No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:		PROJECT:	Designed By:		Drawing Title:	Designed By : M.O.O
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>TRUNK MAIN PLAN AND PROFILE SHEET 2 OF 4</b>	Drawn By : E.I.	
2.				Checked By : W.K								
3.				Approved By : S.M.M								
4.				Client Approval : Date : OCT 2024 Drawing No : WSTF/AoD/NYERI/38								

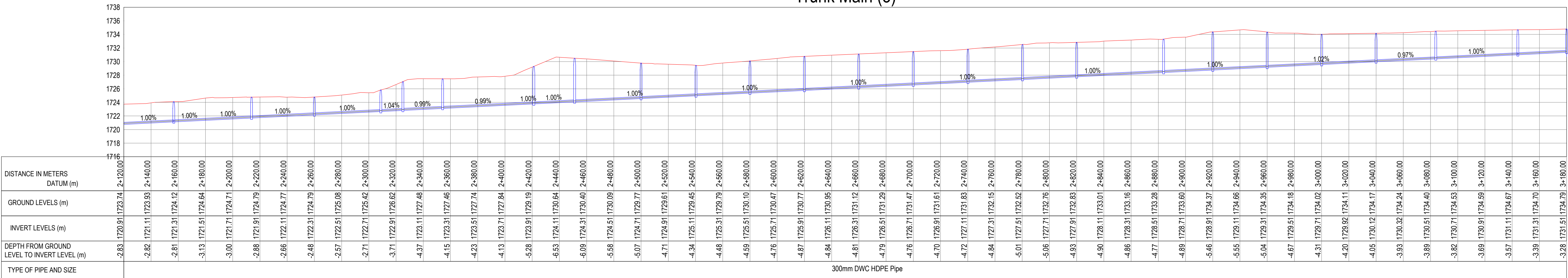









PLAN

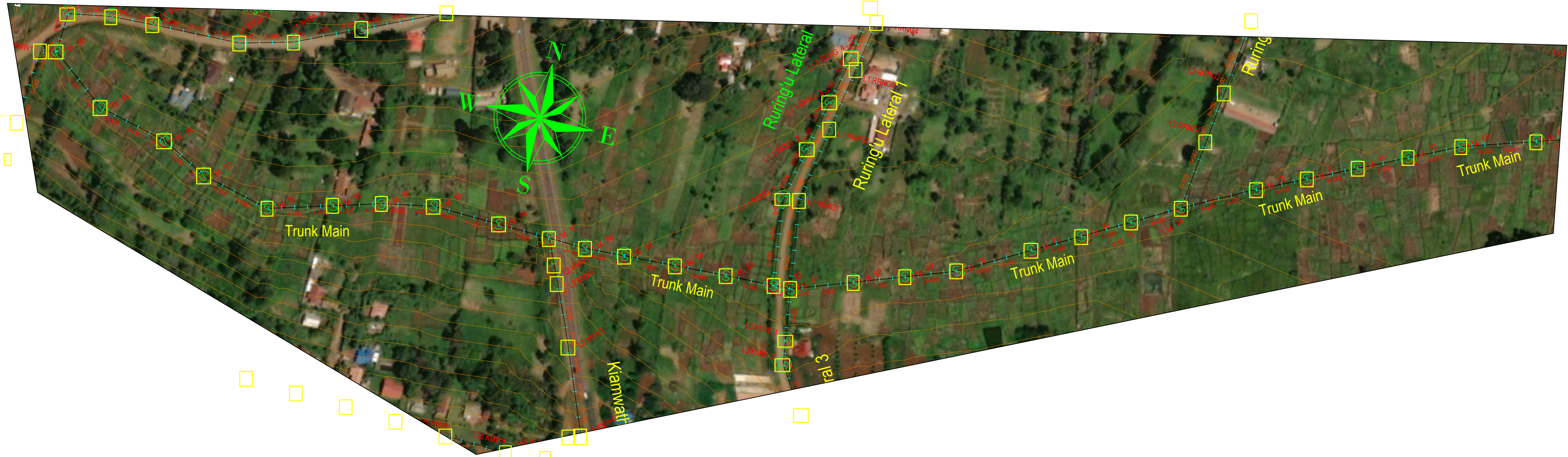


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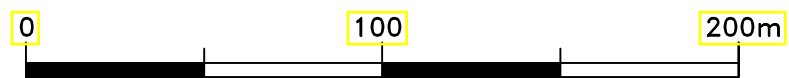


No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:	PROJECT:	Designed By:	Drawing Title:	Designed By
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	  CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	Designed By:    <b>CAS CONSULTANTS LIMITED</b> LE' MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africonline.co.ke WEBSITE: www.casconsultants.co.ke	Designed By : M.O.O
2.				Drawn By : E.I.						
3.				Checked By : W.K						
4.				Approved By : S.M.M						
TRUNK MAIN PLAN AND PROFILE SHT 3 OF 4										Client Approval :
										Date : OCT 2024
										Drawing No :WSTF/AoD/NYERI/39

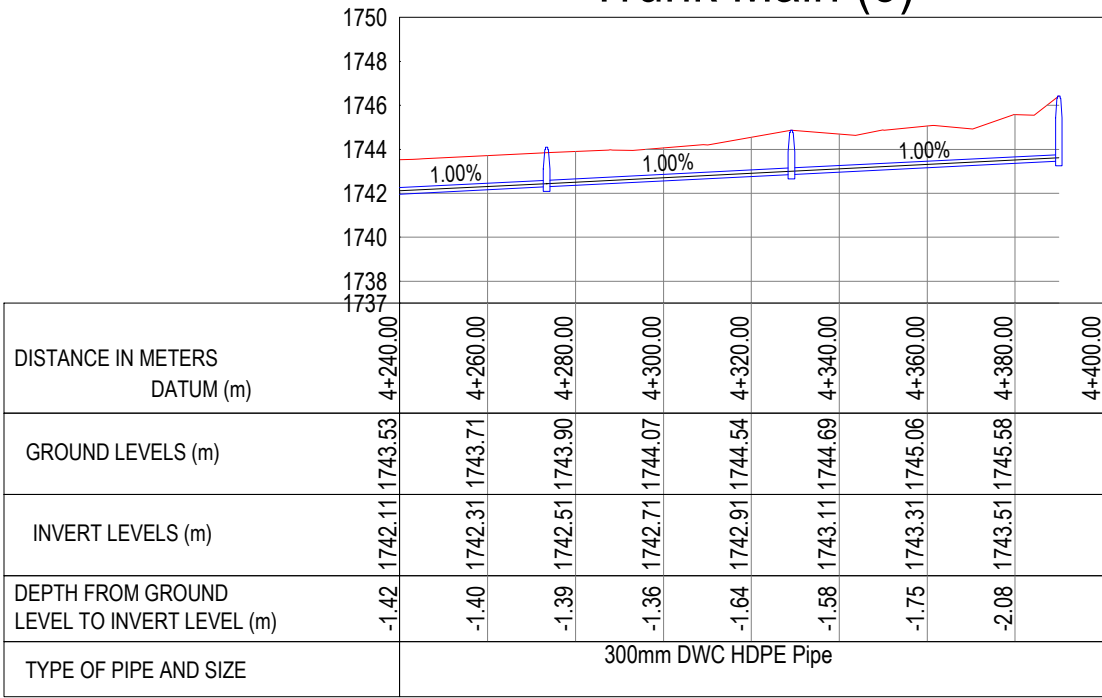




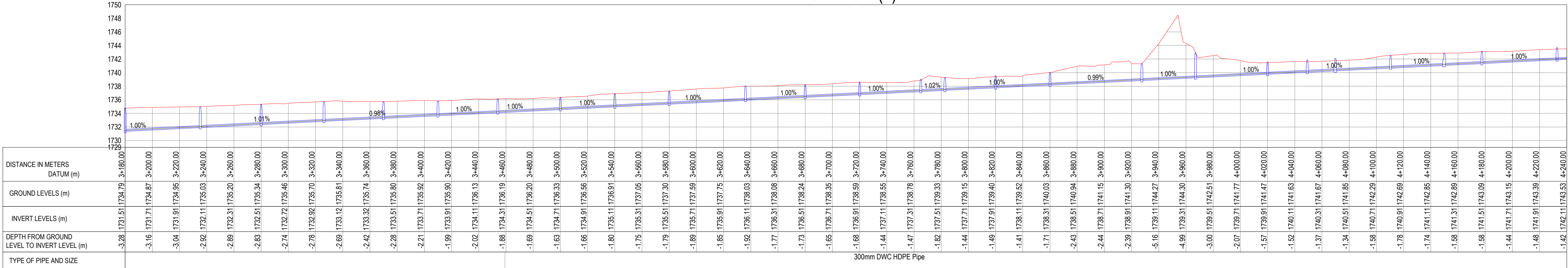
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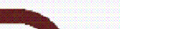


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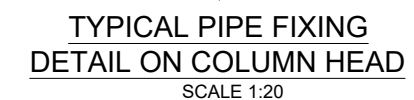
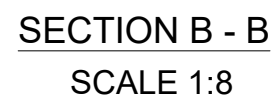
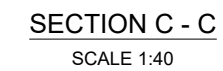
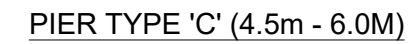
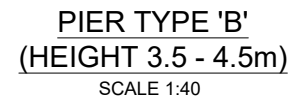






Trunk Main (4)



No	Revisions	Checked By	Approved By	Date	CLIENT:	EXECUTING AGENCY:		PROJECT:	Designed By:		Drawing Title:	Designed By : M.O.O
1.					  Water Sector Trust Fund, CIC Plaza, 1st Floor. Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA	  NYERI WATER & SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke	  REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION	CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	  <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1 <sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67693 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke	<b>TRUNK MAIN PLAN AND PROFILE SHEET 4 OF 4</b>	Drawn By : E.I.	
2.				Checked By : W.K								
3.				Approved By : S.M.M								
4.				Client Approval : Date : OCT 2024 Drawing No :WSTF/AoD/NYERI/40								





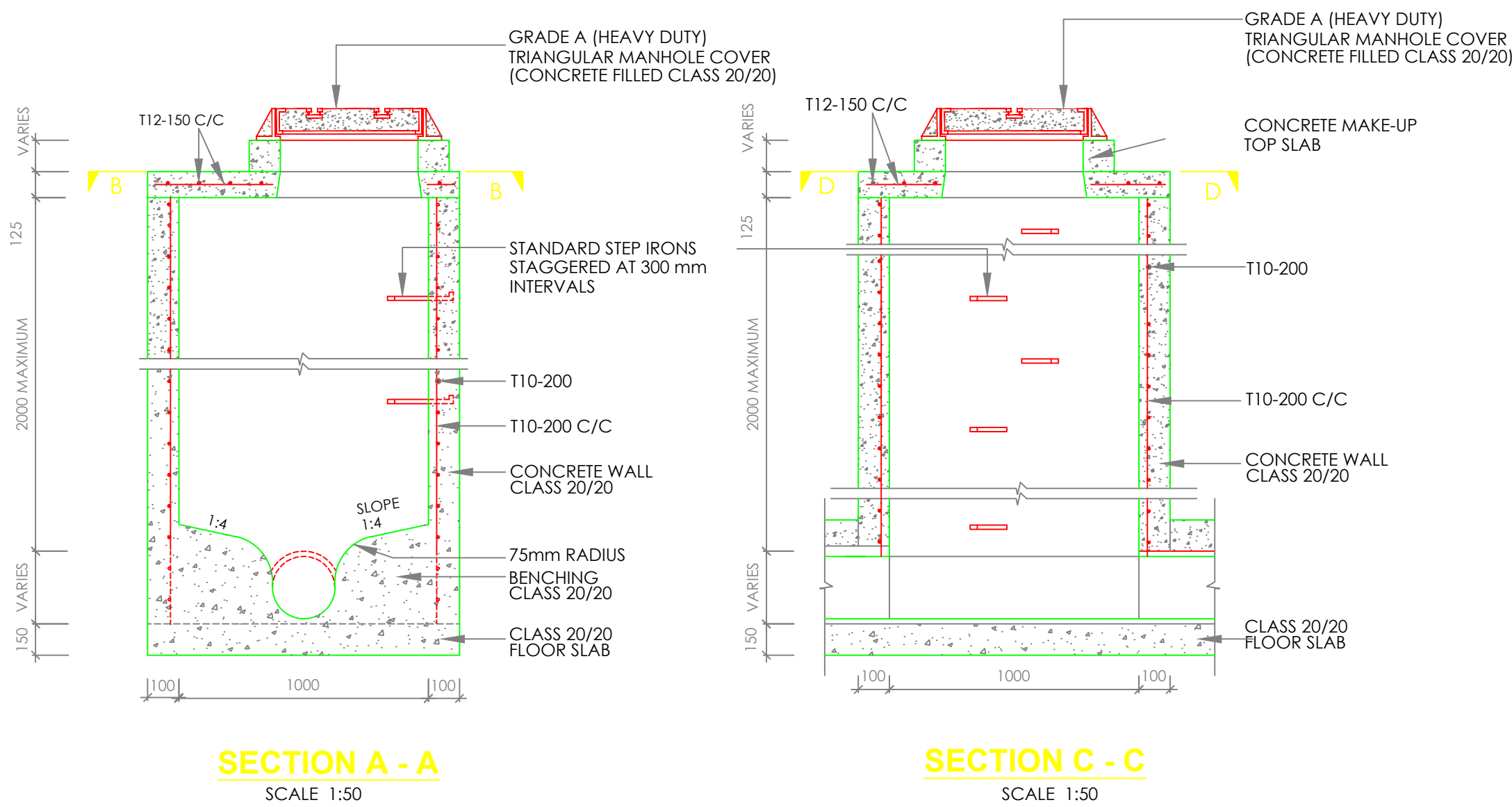
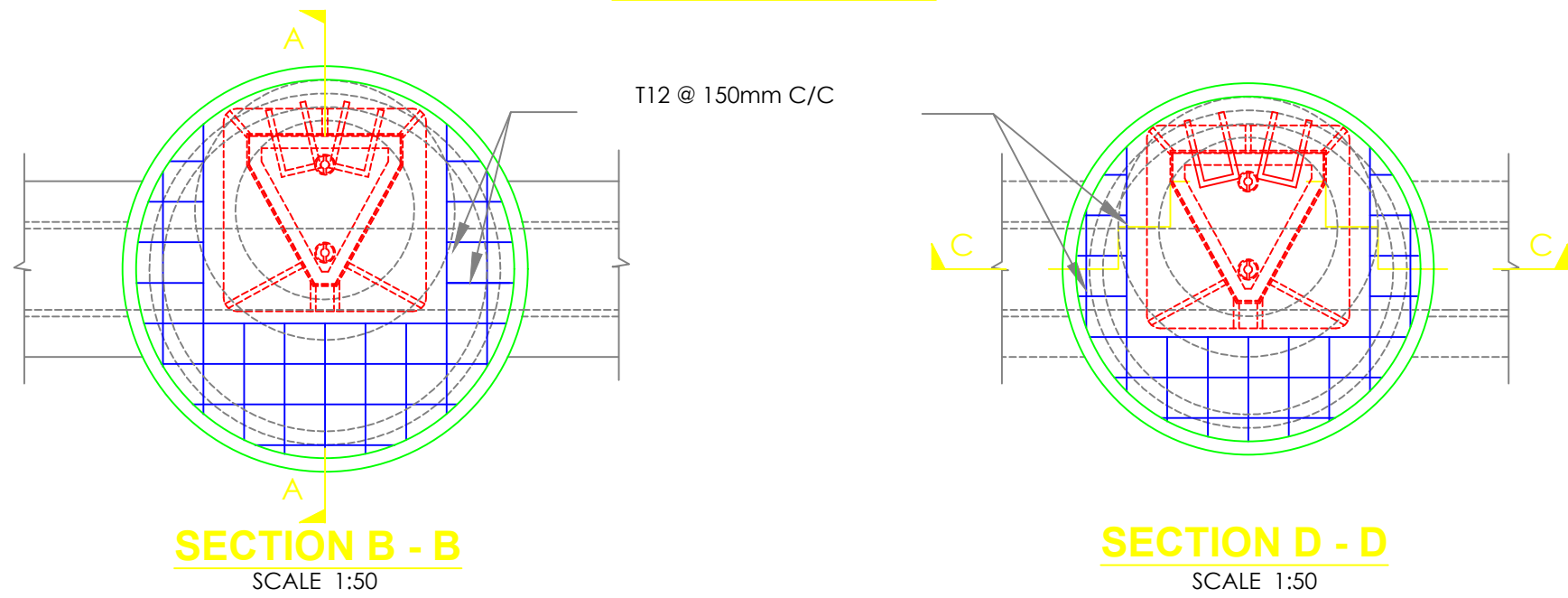
NO					REVISIONS	CHECKED BY	APPROVED BY	DATE	CLIENT: <div><p><b>WaterFund</b> Water Sector Trust Fund</p><p>Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA</p></div>	EXECUTING AGENCY: <div><p><b>NYERI WATER &amp; SANITATION COMPANY</b> Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke</p></div>	 <p><b>REPUBLIC OF KENYA</b> MINISTRY OF WATER AND SANITATION</p>	PROJECT: <p>CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)</p>	DESIGNED BY: <div><p><b>CAS CONSULTANTS LIMITED</b> LE' MAC BUILDING, 1<sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67669 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke</p></div>	DRAWING TITLE: <p><b>RIVER CROSSINGS</b></p>	Designed By : M.O.O
1.					Drawn By : E.I.										
2.					Checked By : W.K										
3.					Approved By : S.M.M										
4.					Client approval :										
														Date : OCT 2024	
															Drawing No: WSTF/AoD/NYERI/45



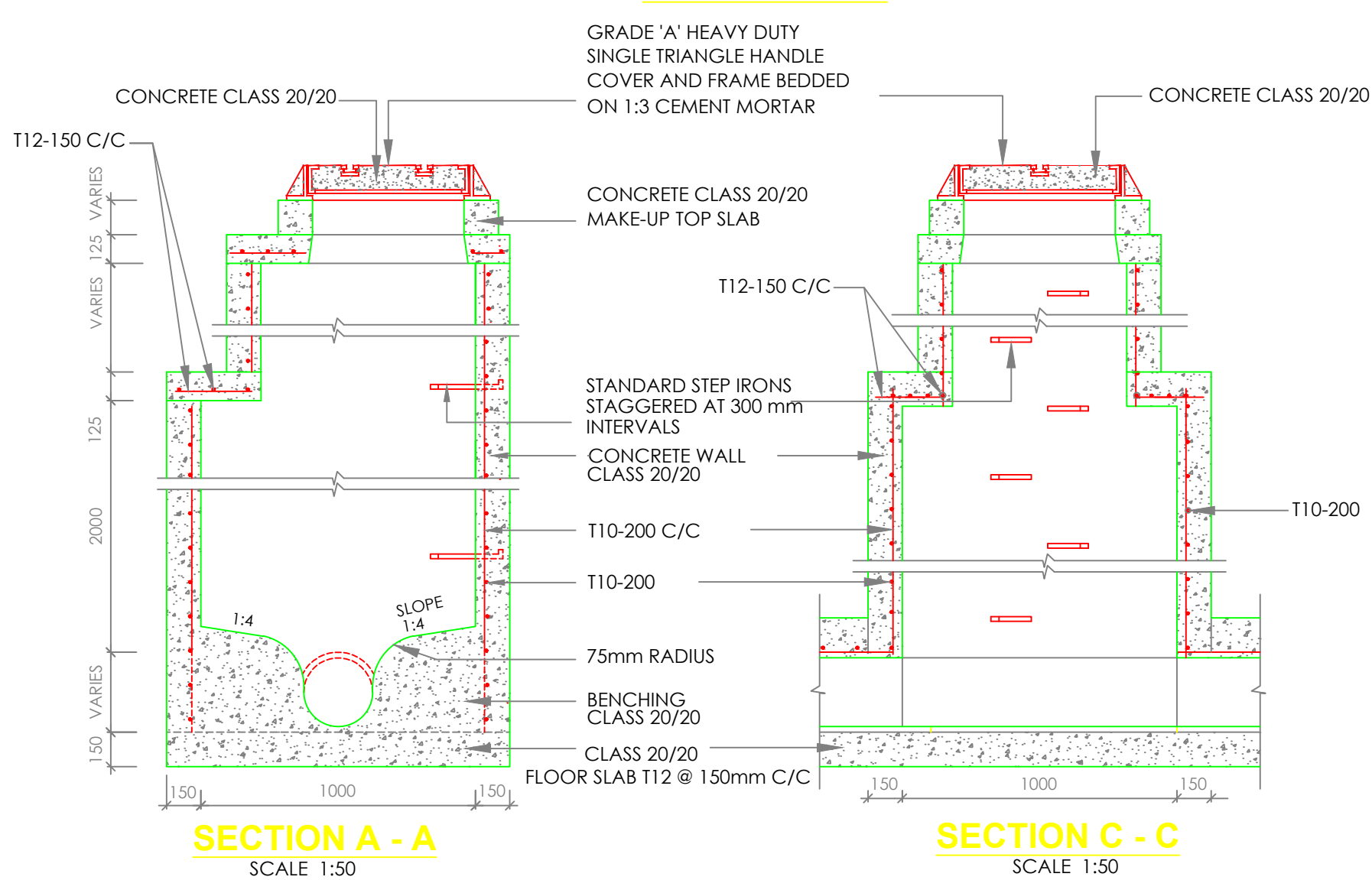




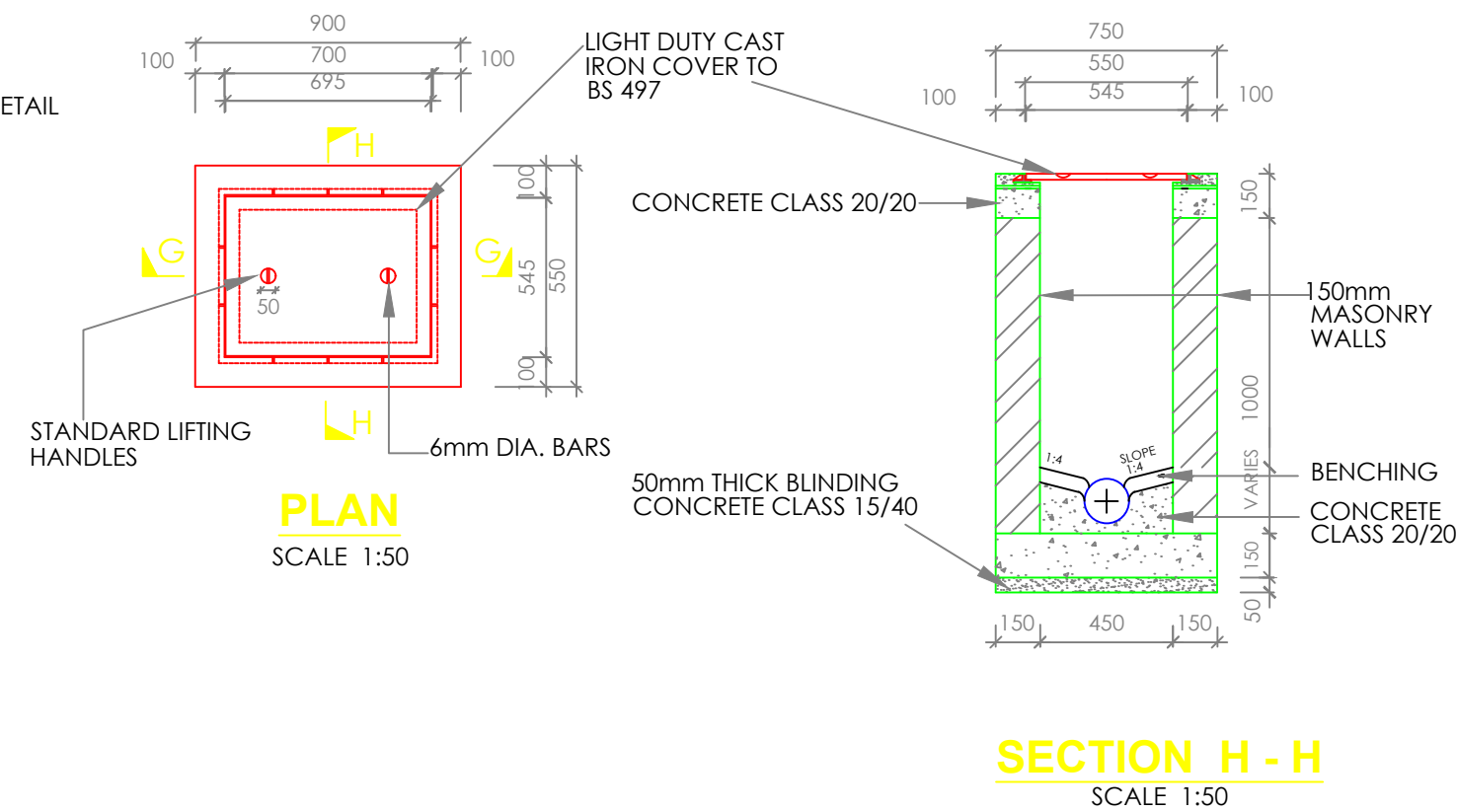
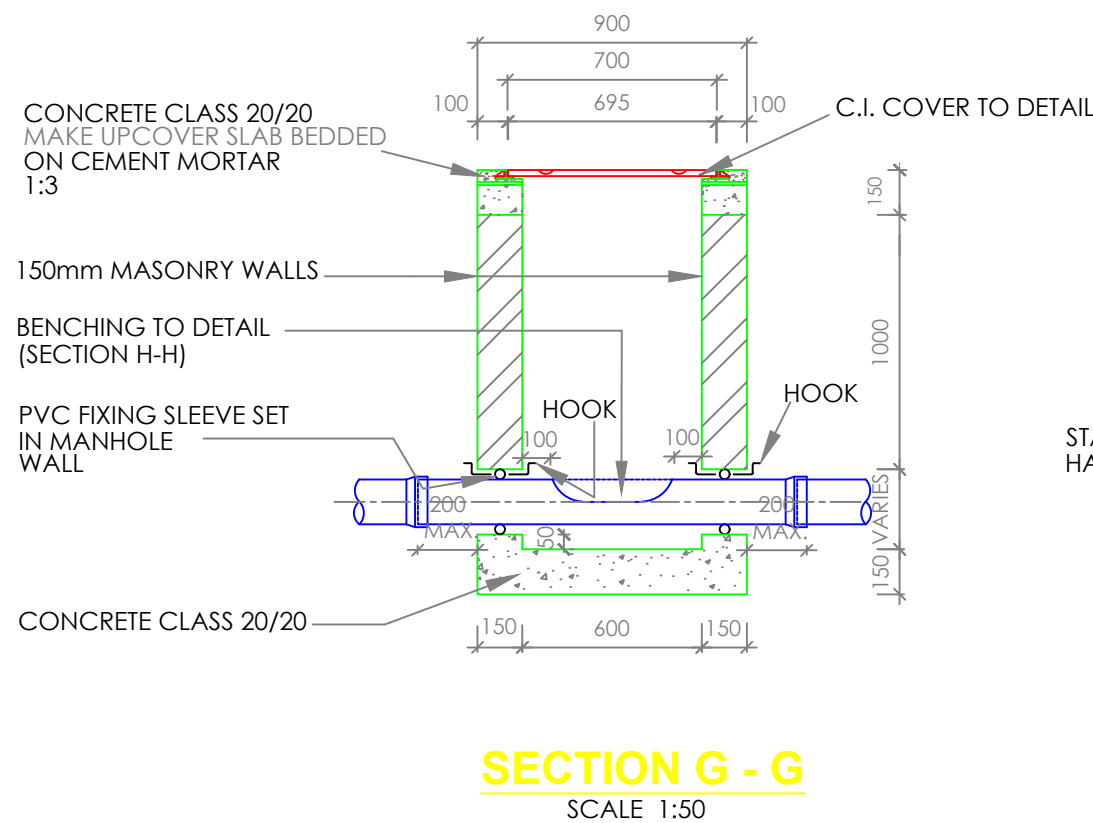
REINFORCED CONCRETE CIRCULAR MANHOLE & COVER  
DEPTH n.e. 2.0m



REINFORCED CONCRETE MANHOLE & COVER  
DEPTH > 2.0m



INSPECTION CHAMBER DETAILS



NOTES





1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
2. ALL CONCRETE TO BE CLASS 20/20
3. ALL PRECAST CONCRETE UNITS TO BS 556
4. CONCRETE FILLING CLASS 25/20 VIBRATED AND CURED IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATION CLAUSES.
5. TOLERANCE ON OVERALL SIZE 3mm
6. ALL HAUNCHES ARE CLASS 15/40 CONCRETE AS INDICATED ON THE SPECIFICATION OVER EXCAVATION TO BE MADE GOOD IN CONCRETE CLASS 15/40.

ABBREVIATIONS

- 1.n.e. - NOT EXCEEDING
2. c/c - CENTRE TO CENTRE
3. MIN - MINIMUM
4. G.L. - GROUND LEVEL
5. mm - MILLIMETER
6. m - METRE
7. EXT. DIA. - EXTERNAL DIAMETER
8. OD - OUTSIDE DIAMETER
9. ND - NOMINAL DIAMETER
10. RC - REINFORCED CONCRETE
11. T10 - TWISTED BAR 10mm SIZE
12. NTS - NOT TO SCALE
13. CU.M PER LIN. METER - CUBIC METER PER LINEAR METER
14. CI - CAST IRON

NOTES:

1. INSPECTION CHAMBER SHOULD BE SIZE 600x450mm UPTO DEPTH OF 1000mm
2. FOR INSPECTION CHAMBER EXCEEDING DEPTH 1000mm SIZE SHOULD BE 850x1200mm
3. WALLS OF INSPECTION CHAMBER TO BE OF MASONRY

NO. REVISIONS CHECKED BY APPROVED BY DATE					CLIENT: <div> Water Sector Trust Fund, CIC Plaza, 1st Floor, Mara Road, Upper Hill, P.O Box 49699, 00100, NAIROBI, KENYA</div>	EXECUTING AGENCY: <div> NYERI WATER &amp; SANITATION COMPANY Opposite Nyeri Town Health Center, Nyeri, Kenya Tel: 061-2034622/23 or 061-2034617/4548 Email: info@nyewasco.co.ke</div>	<div> REPUBLIC OF KENYA MINISTRY OF WATER AND SANITATION</div>	PROJECT:  CONSULTING SERVICES TO DEVELOP BANKABLE WATER AND SEWERAGE PROPOSALS FOR WATER SERVICE PROVIDERS FOR COMMERCIAL FINANCING BMZ NO.: 2013 65 402 (WSTF-PHASE III)	DESIGNED BY: <div> <b>CAS CONSULTANTS LIMITED</b> LE MAC BUILDING, 1<sup>ST</sup> FLOOR, OFF CHURCH ROAD, WESTLANDS P.O BOX 67893 - 00200 - NAIROBI, KENYA TEL: 020 4445265 E-MAIL: casconsult@africaonline.co.ke WEBSITE: www.casconsultants.co.ke</div>	DRAWING TITLE:  Typical Manhole and Inspection Boxes Details	Designed By : M.O.O
1.											Drawn By : E.I.
2.											Checked By : W.K
3.											Approved By : S.M.M
4.											Client approval : Date : OCT 2024 Drawing No: WSTF/AoD/NYERI/060