

REPUBLIC OF UGANDA



**VOLUME 4-2: BOOK OF DRAWINGS
(KIBUKU DISTRIBUTION)**

INTEGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP)

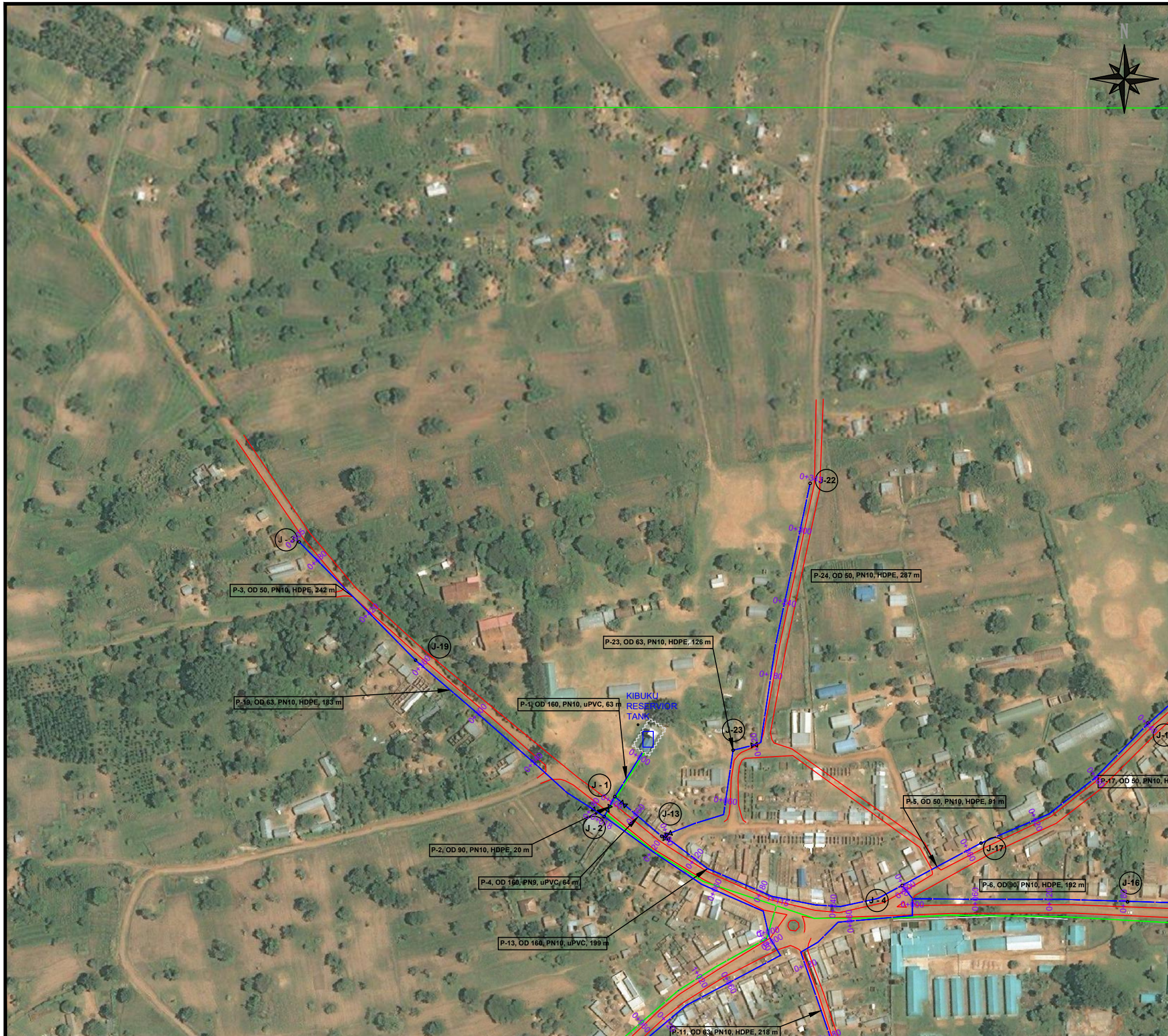
**CONSTRUCTION OF TIRINYI, KIBUKU, KADAMA AND BUDAKA WATER
SUPPLY AND SANITATION SYSTEM**

CONTRACT NO: MWE/WRKS/21-22/00005/1

SUBMITTED BY:



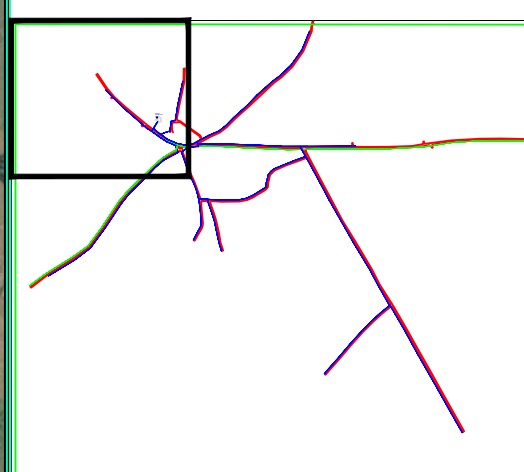
JULY 2022




LEGEND

LEGEND	
	Existing pipes
	New pipes
	Replacement pipes
	Replacement A/C pipes
	Roads
	Fences
	Pressure Zones
	Rivers
	Sewer Lines
	Houses
	Junctions
	Air Valves
	Wash Outs
	Fire Hydrants
	Disconnections
	Public stand Post
	Land Marks

KEY MAP



REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

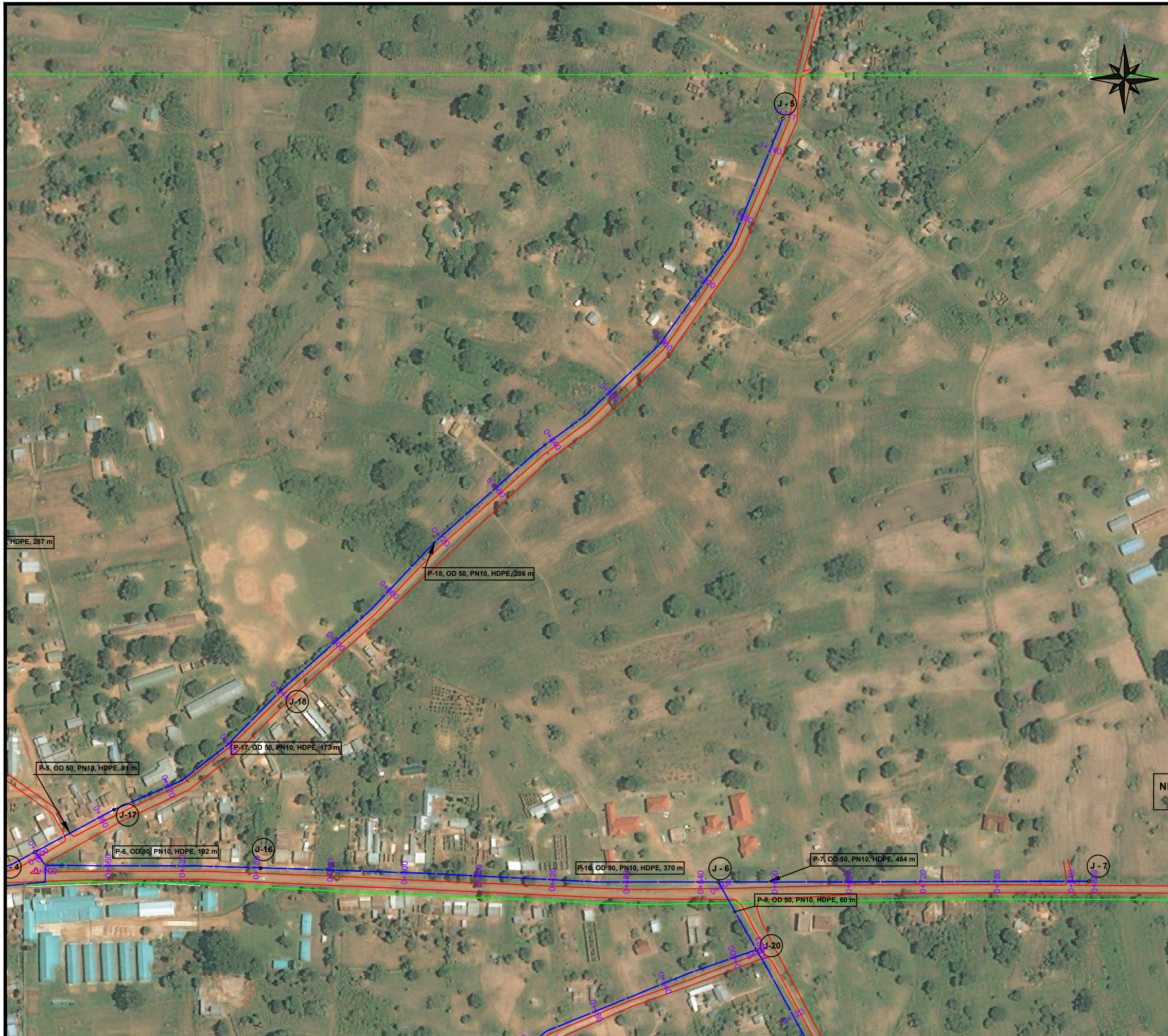
CONSULTANT:





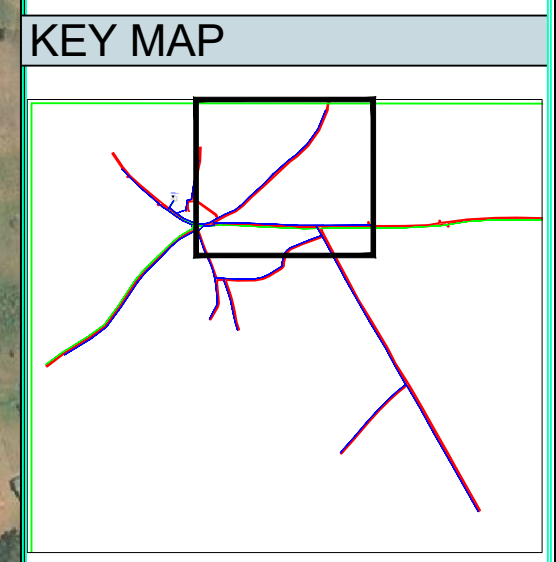
Drawing Title:
KIBUKU DISTRIBUTION NETWORK

Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: November 2021
Drawing No.: IWMDP/MBA/ 8-L-004	
Sheet No.: 1	Format: A3



LEGEND

LEGEND	
	Existing pipes
	New pipes
	Replacement pipes
	Replacement A/C pipes
	Roads
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MINISTRY OF WATER AND ENVIRONMENT

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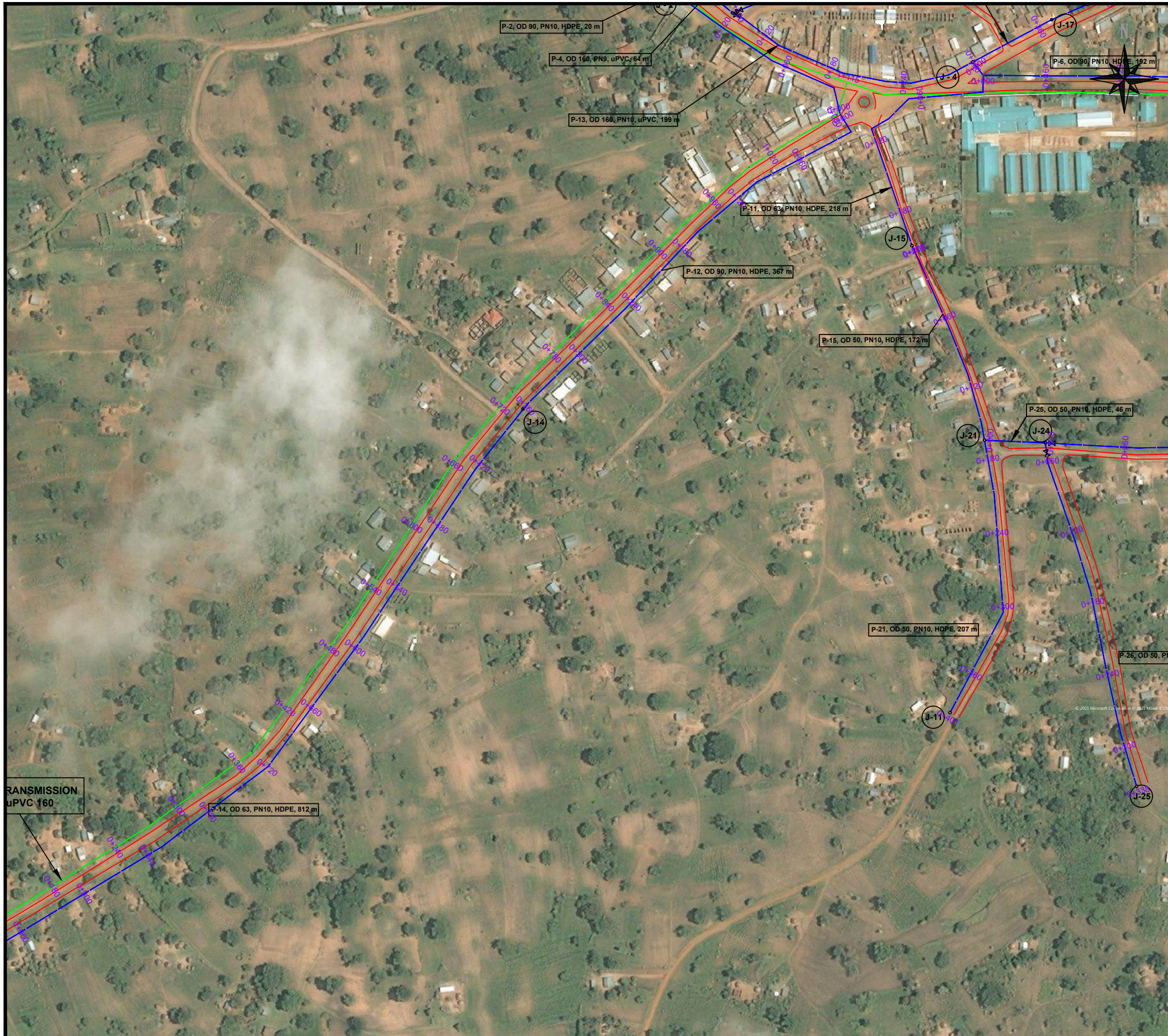
CONSULTANT:





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KIBUKU DISTRIBUTION NETWORK

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Sheet No.: 2	Format: A3



LEGEND

	Existing pipes
	New pipes
	Replacement pipes
	Replacement A.C pipes
	Roads
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	Junctions
	Air Valves
	Wash Outs
	Fire Hydrants
	Disconnections
	Public stand Post
	Land Marks

KEY MAP

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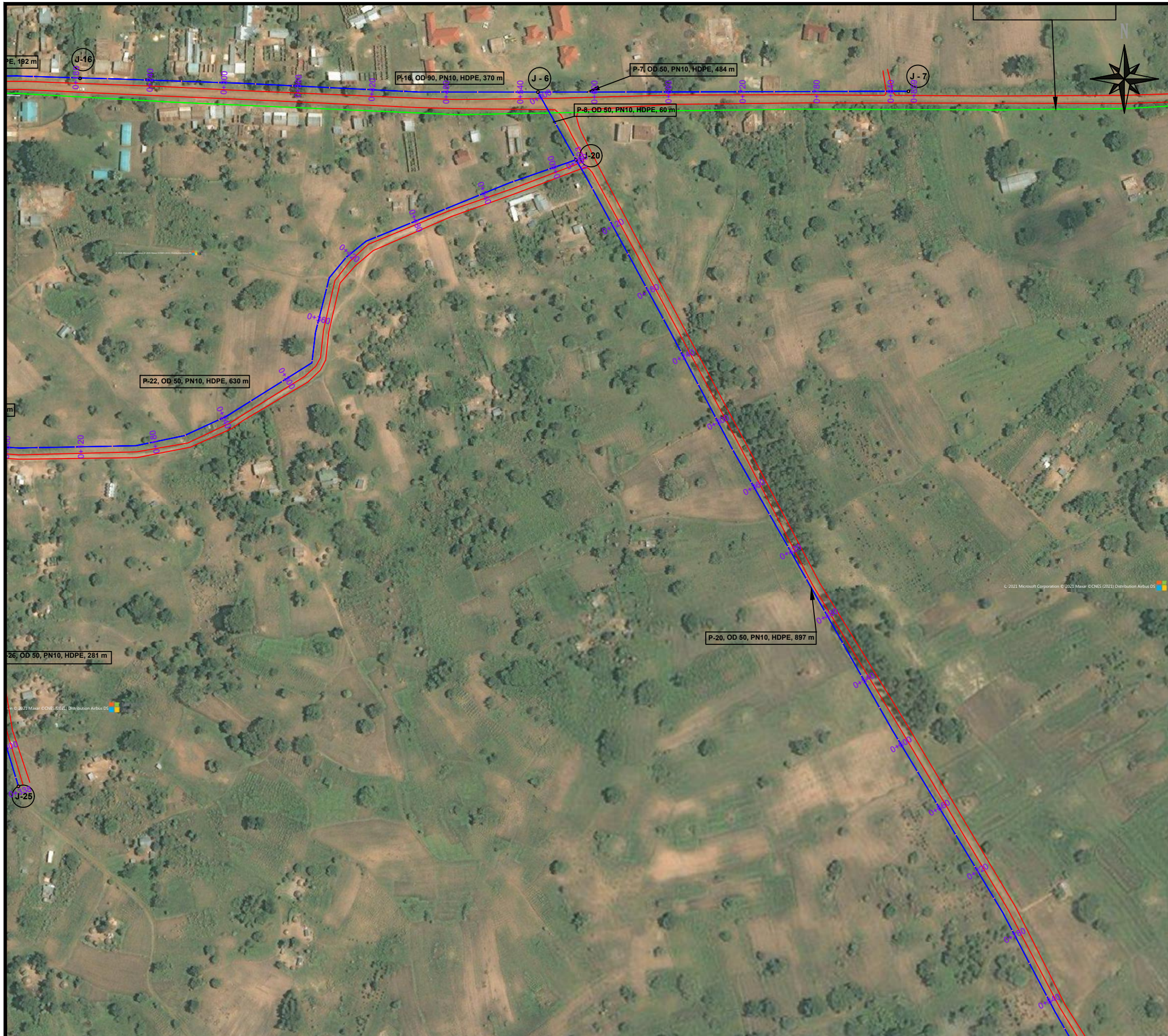
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

Drawing Title:
KIBUKU DISTRIBUTION NETWORK

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Scale: As Indicated	Date: November 2021
Drawing No.: IWMDP/MBA/ 8-L-004	
Sheet No.: 3	Format: A3



LEGEND

	Existing pipes
	New pipes
	Replacement pipes
	Replacement A.C pipes
	Roads
	Fences
	Pressure Zones
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	Public stand Post
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KEY MAP

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MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

Drawing Title:
KIBUKU DISTRIBUTION NETWORK

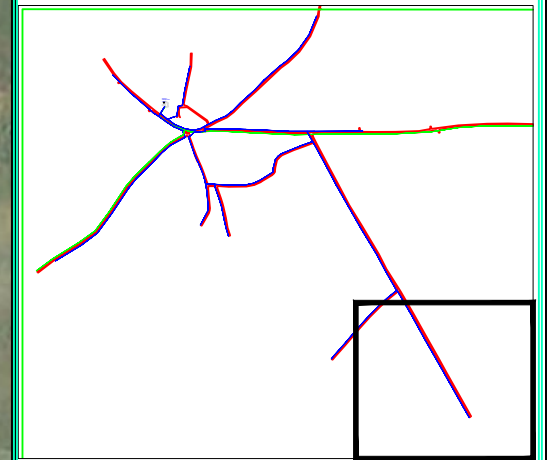
Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: November 2021
Drawing No.: IWMDP/MBA/ 8-L-004	
Sheet No.: 4	Format: A3



LEGEND

LEGEND	
	Existing pipes
	New pipes
	Replacement pipes
	Replacement A C pipes
	Roads
	Fences
	Pressure Zones
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KEY MAP



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MINISTRY OF WATER AND ENVIRONMENT

PROJECT:

CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:



Drawing Title:

KIBUKU DISTRIBUTION NETWORK

Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: November 2021
Drawing No.: IWMDP/MBA/ 8-L-004	
Sheet No.: 5	Format: A3









AMENDMENTS

No	Date	Revision

NOTES

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MB/W/0.0.0
4. For Node details, see Dwg. MB/W/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

-  Transmission Line
-  New Distribution Line
-  Road
-  DAV Double Orifice Air Valve
-  WO_2 Type 2 Washout
-  Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

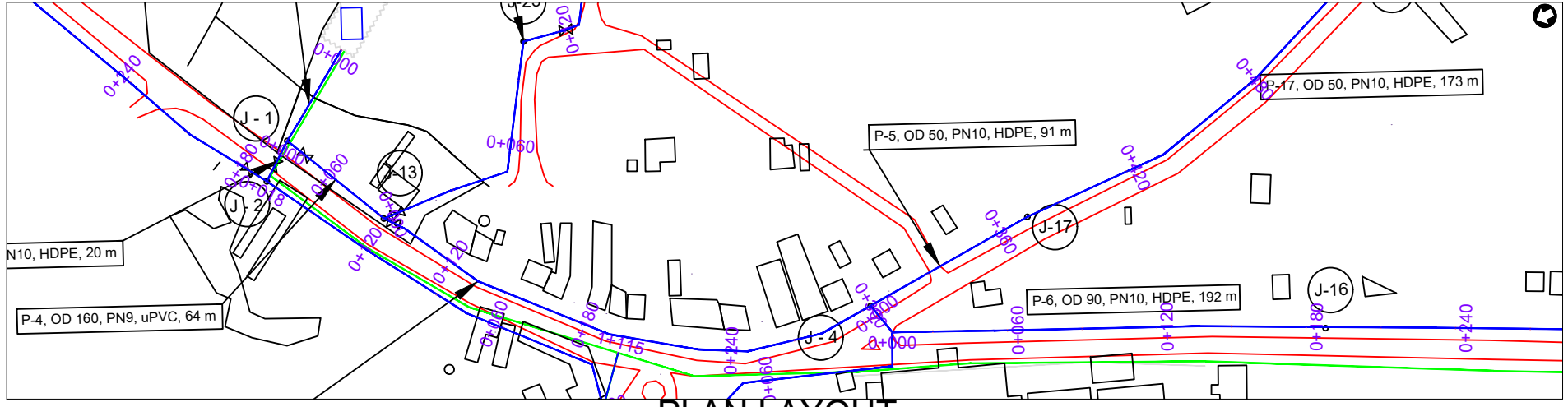
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

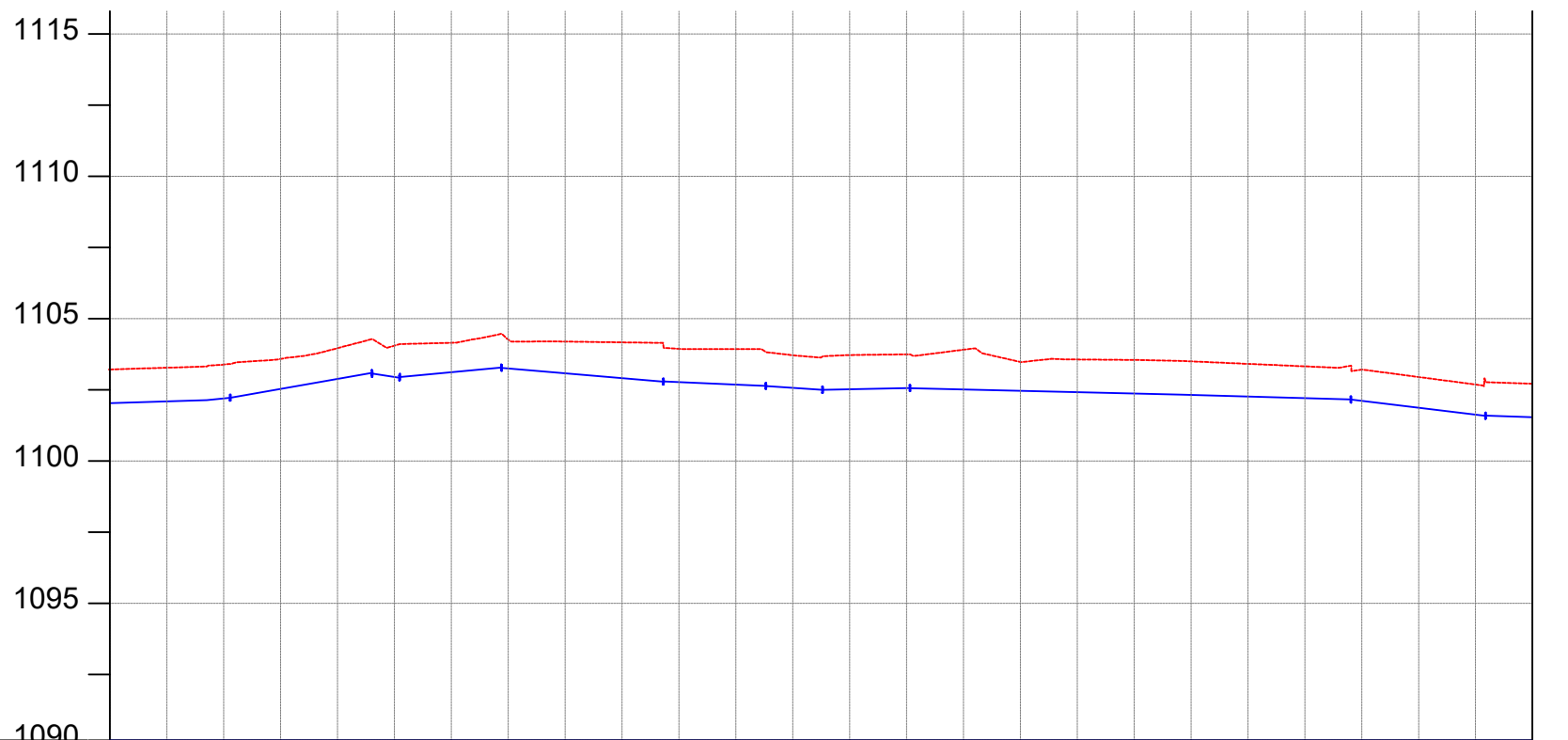


Drawing Title:
KIBUKU TOWN
GENERAL LAYOUT

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/KIB/L/001
Sheet No.: 1	Format: A2



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+480		0+500
GROUND LEVEL(m)	1103.214	1103.275	1103.384	1103.585	1103.963	1104.049	1104.150	1104.267	1104.193	1104.166	1103.939	1103.929	1103.714	1103.718	1103.744	1103.907	1103.475	1103.565	1103.549	1103.498	1103.411	1103.323	1103.211	1102.949	1102.685	1102.712	1102.712
PIPE DETAILS	OD160, uPVC PN10															OD50, HDPE PN10											
PIPE INVERT(m)	1102.114	1102.175	1102.284	1102.485	1102.863	1102.949	1103.050	1103.167	1103.093	1103.066	1102.839	1102.829	1102.614	1102.618	1102.644	1102.807	1102.375	1102.465	1102.449	1102.398	1102.311	1102.223	1102.111	1101.849	1101.585	1101.612	1101.612

AMENDMENTS		
No	Date	Revision

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LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

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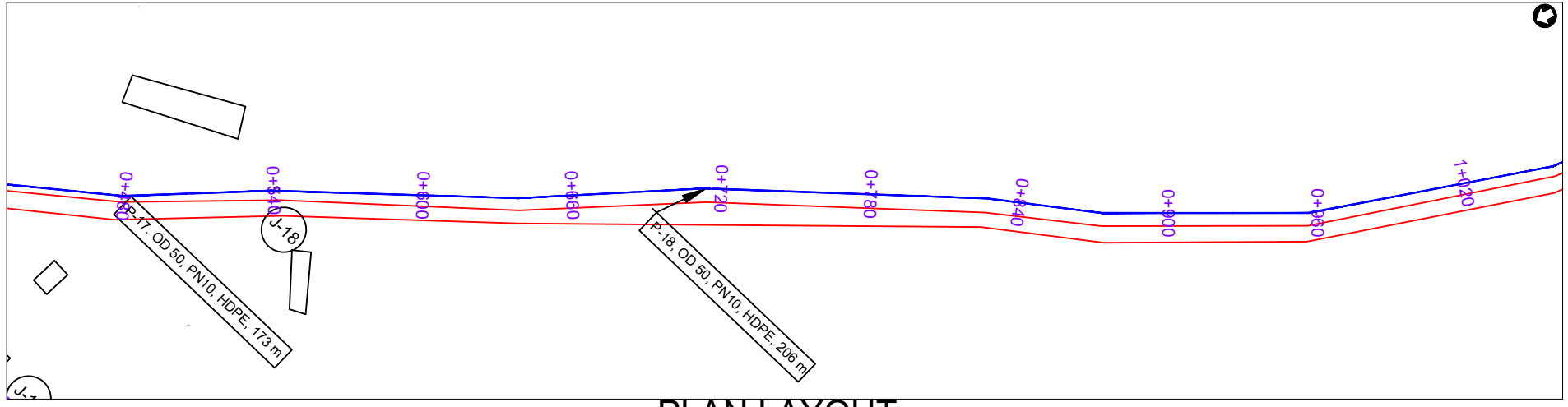
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

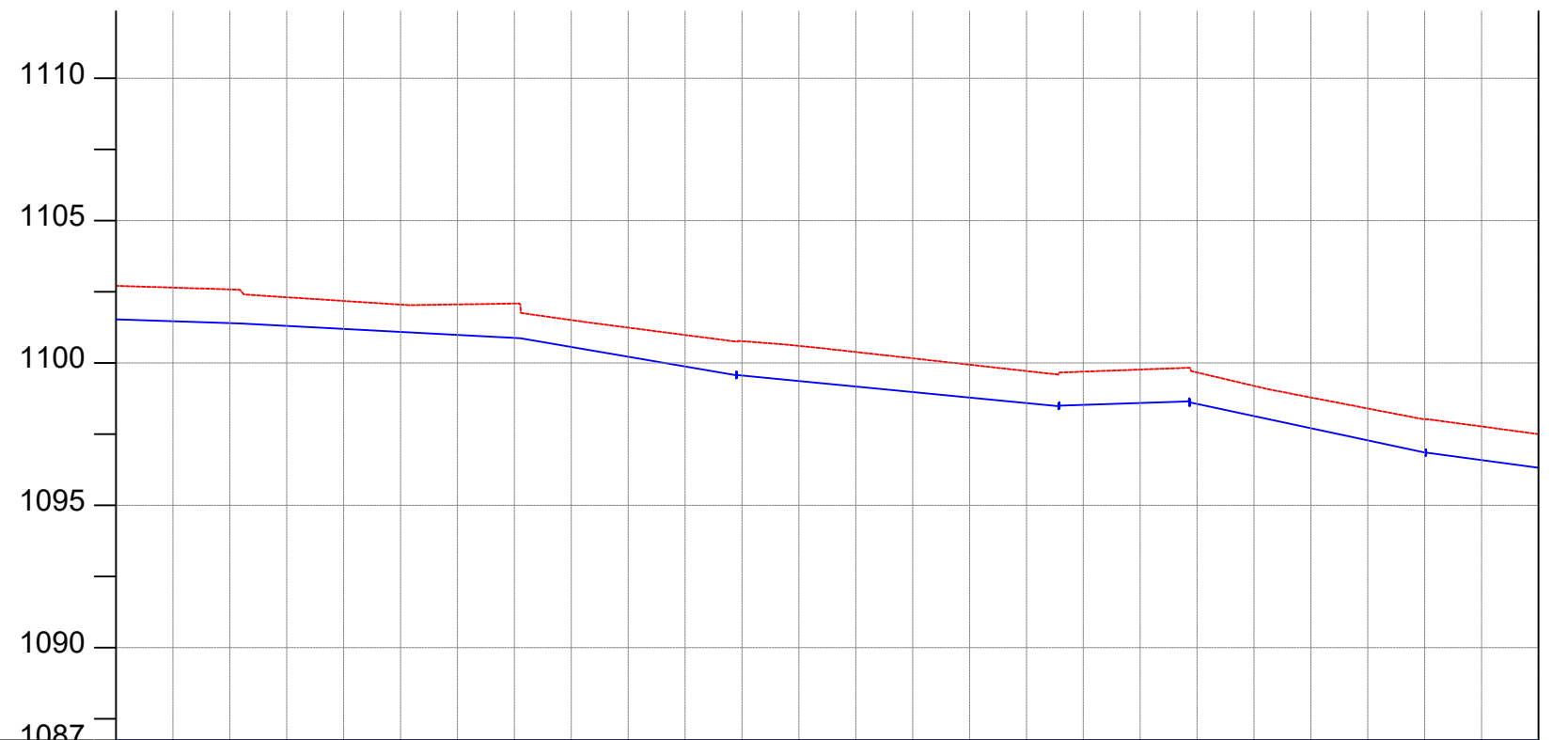
CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_1 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_1 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800	0+840	0+880	0+920	0+960	1+000
GROUND LEVEL(m)	1102.712	1102.648	1102.584	1102.309	1102.180	1102.051	1102.057	1102.088	1101.509	1101.243	1100.984	1100.767	1100.601	1100.387
PIPE DETAILS	OD50, HDPE PN10													
PIPE INVERT(m)	1101.612	1101.548	1101.484	1101.209	1101.080	1100.951	1100.957	1100.988	1100.409	1100.143	1099.884	1099.667	1099.501	1099.287
														1099.064
														1098.841
														1098.618
														1098.596
														1098.670
														1098.567
														1098.096
														1097.688
														1097.301
														1096.915
														1096.672
														1096.400

AMENDMENTS		
No	Date	Revision

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LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

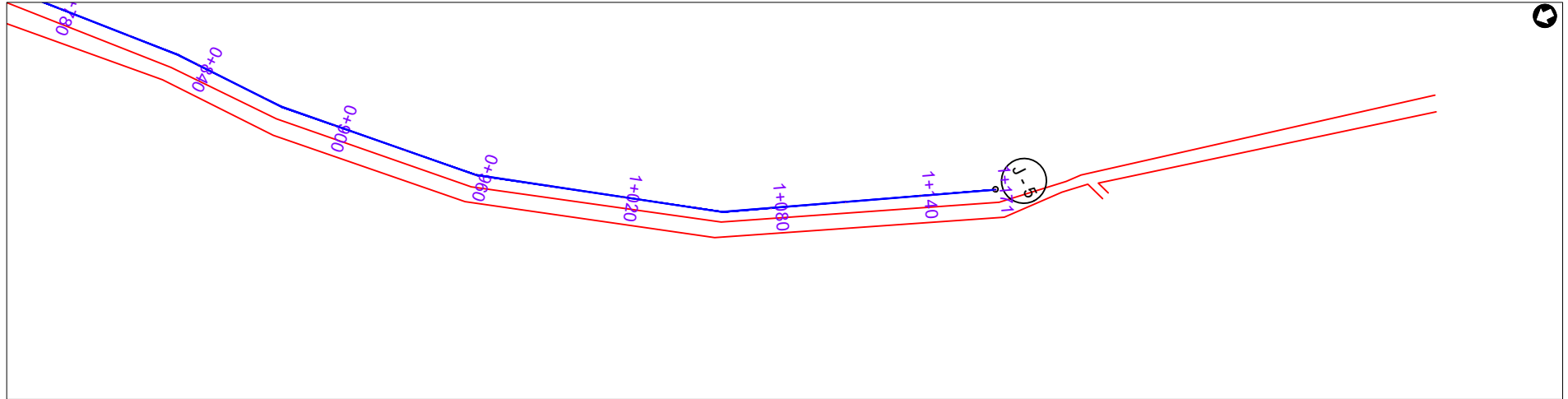
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_1 (CH 0+500.00 - 1+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_1 (CH 0+500.00 - 1+000.00)
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	1+000		1+040		1+080		1+120		1+160	1+171
GROUND LEVEL(m)	1097.500	1097.229	1096.958	1096.692	1096.471	1096.238	1095.985	1095.683	1095.381	1095.155
PIPE DETAILS	OD50, HDPE PN10									
PIPE INVERT(m)	1096.400	1096.129	1095.858	1095.592	1095.371	1095.138	1094.885	1094.583	1094.281	1094.055

AMENDMENTS

No	Date	Revision

NOTES

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LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

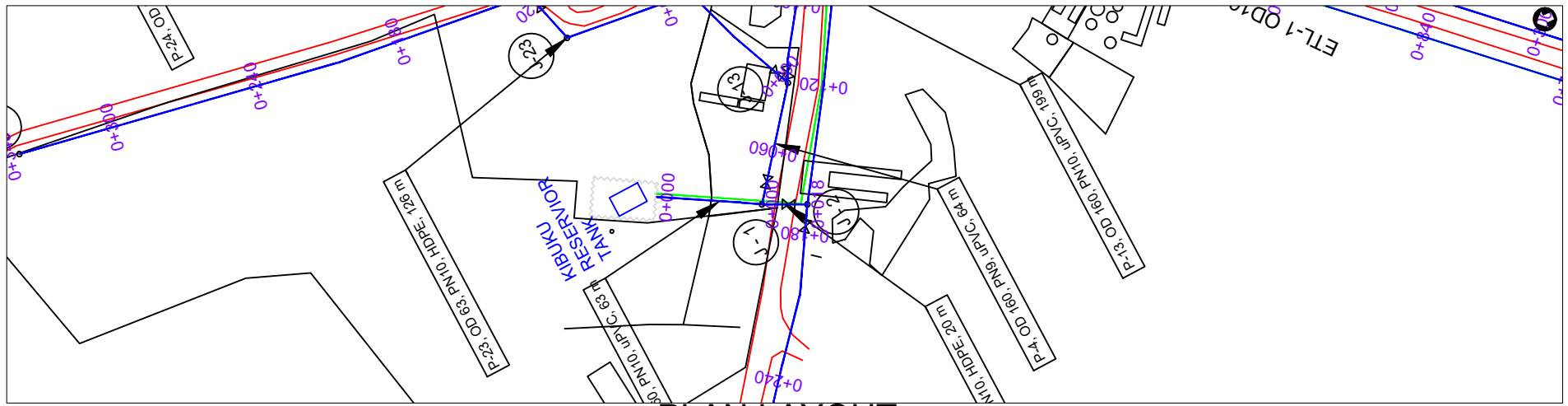
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

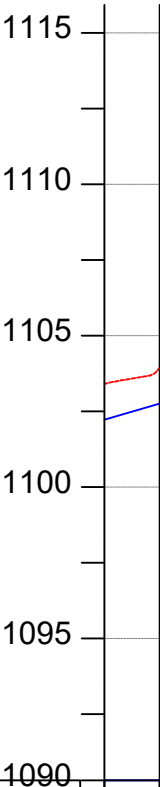


Drawing Title:
KIBUKU TOWN
DL_1 (CH 1+000.00 - 1+170.52)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_1 (CH 1+000.00 - 1+170.52)	
Sheet No.: 3	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+018
GROUND LEVEL(m)	1103.408	1103.937
PIPE DETAILS		
PIPE INVERT(m)	1102.308	1102.837

OD90, HDPE PN10

AMENDMENTS		
No	Date	Revision

- NOTES**
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LEGEND

	Transmission Line
	New Distribution Line
	Road
	Double Orifice Air Valve
	Type 2 Washout
	Node detail No. 01

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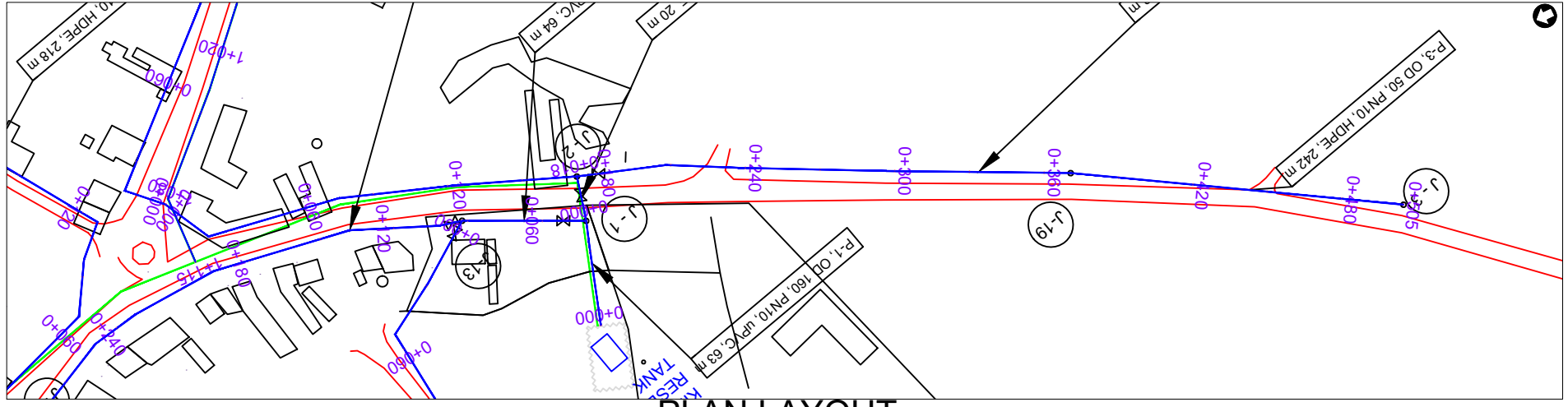
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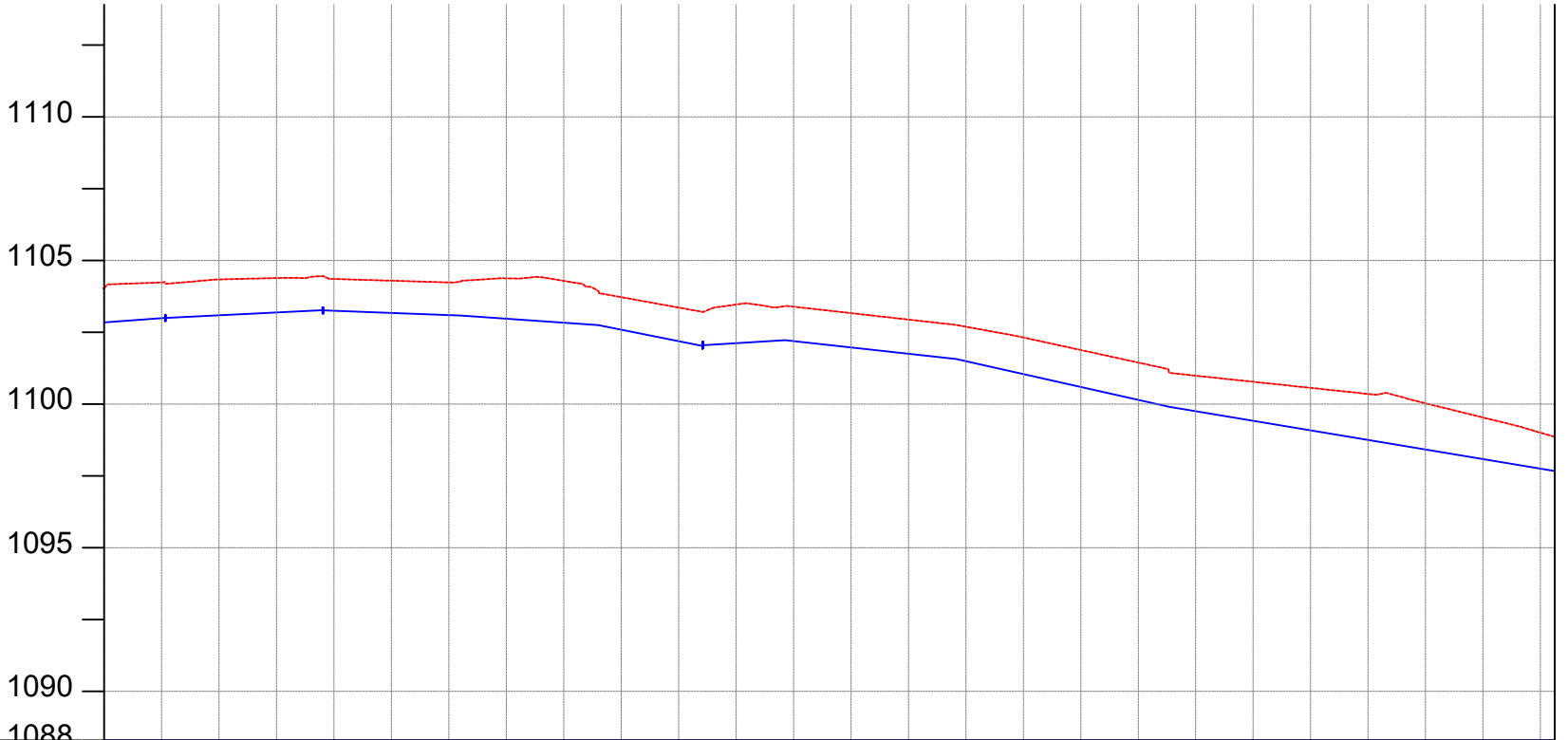


Drawing Title:
KIBUKU TOWN
DL_2 (CH 0+000.00 - 0+018.23)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_2 (CH 0+000.00 - 0+018.23)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+360	0+400	0+440	0+480	0+505												
GROUND LEVEL(m)	1104.029	1104.235	1104.340	1104.387	1104.355	1104.295	1104.235	1104.377	1104.289	1103.722	1103.360	1103.464	1103.390	1103.166	1102.941	1102.693	1102.318	1101.882	1101.445	1100.987	1100.776	1100.564	1100.352	1100.026	1099.533	1098.894
PIPE DETAILS	OD90, HDPE PN10										OD50, HDPE PN10															
PIPE INVERT(m)	1102.929	1103.135	1103.240	1103.287	1103.255	1103.195	1103.135	1103.277	1103.189	1102.622	1102.260	1102.364	1102.290	1102.066	1101.841	1101.593	1101.218	1100.782	1100.345	1099.887	1099.676	1099.464	1099.252	1098.926	1098.433	1097.994

AMENDMENTS		
No	Date	Revision

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LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



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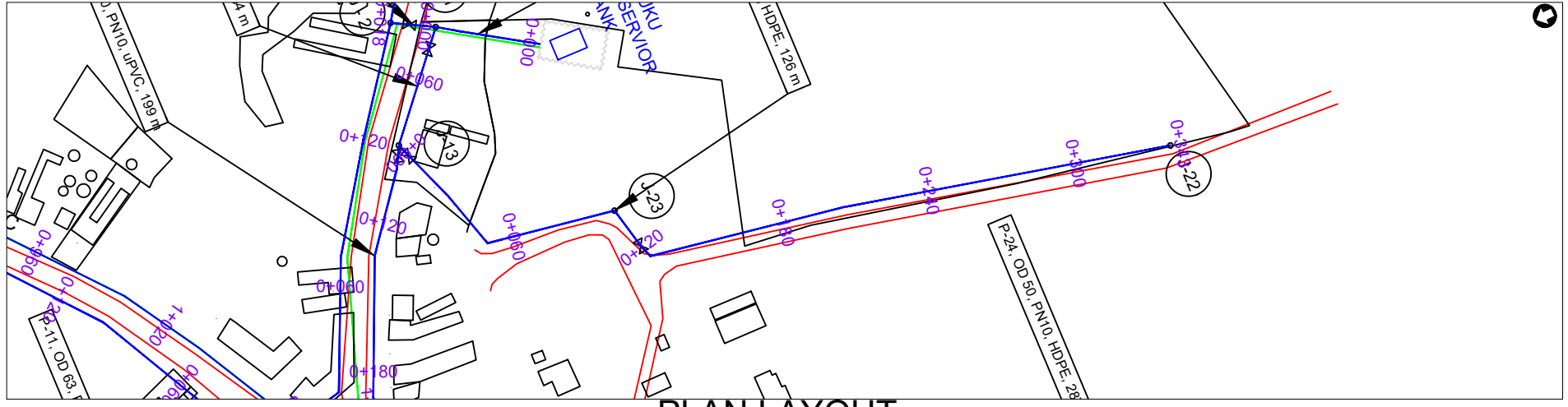
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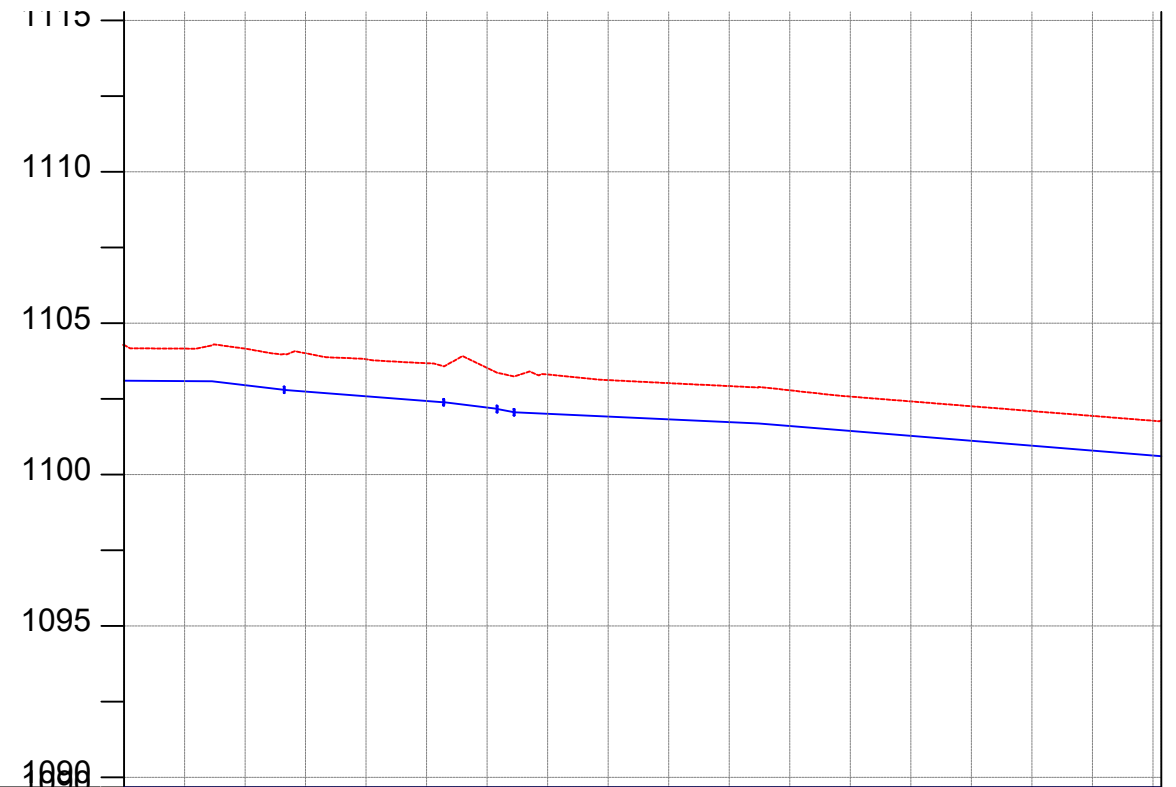


Drawing Title:
KIBUKU TOWN
DL_3 (CH 0+000.00 - 0+505.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_3 (CH 0+000.00 - 0+505.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+343								
GROUND LEVEL(m)	1104.283	1104.160	1104.160	1104.006	1103.807	1103.677	1103.522	1103.303	1103.119	1103.020	1102.922	1102.783	1102.576	1102.416	1102.256	1102.097	1101.937	1101.794
PIPE DETAILS	OD63, HDPE PN10 — OD50, HDPE PN10																	
PIPE INVERT(m)	1103.183	1103.060	1103.060	1102.906	1102.707	1102.577	1102.422	1102.203	1102.019	1101.920	1101.822	1101.683	1101.476	1101.316	1101.156	1100.997	1100.837	1100.694

AMENDMENTS		
No	Date	Revision

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LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

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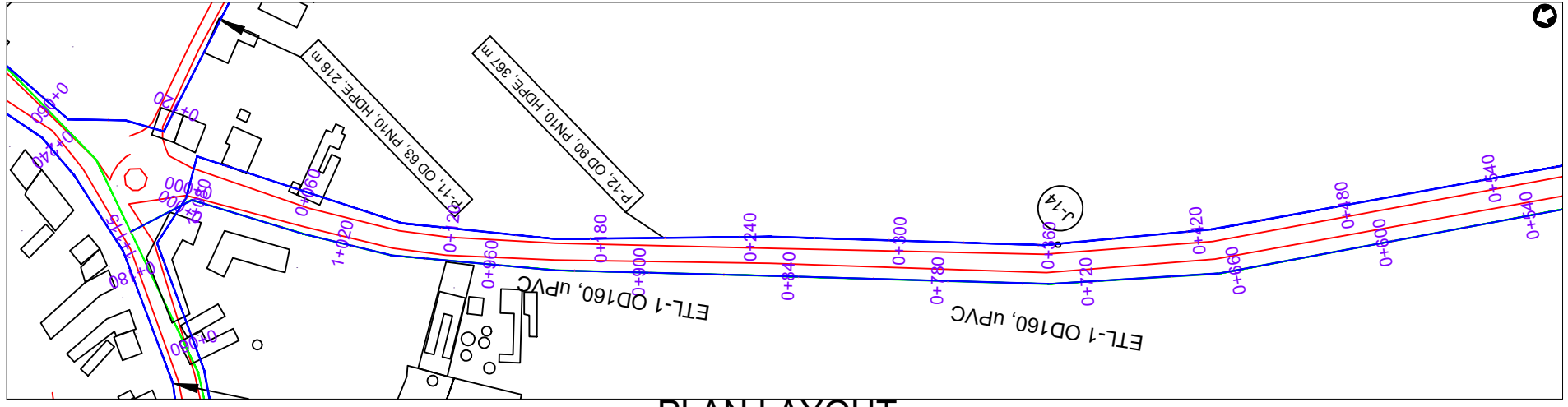
CONSULTANT:



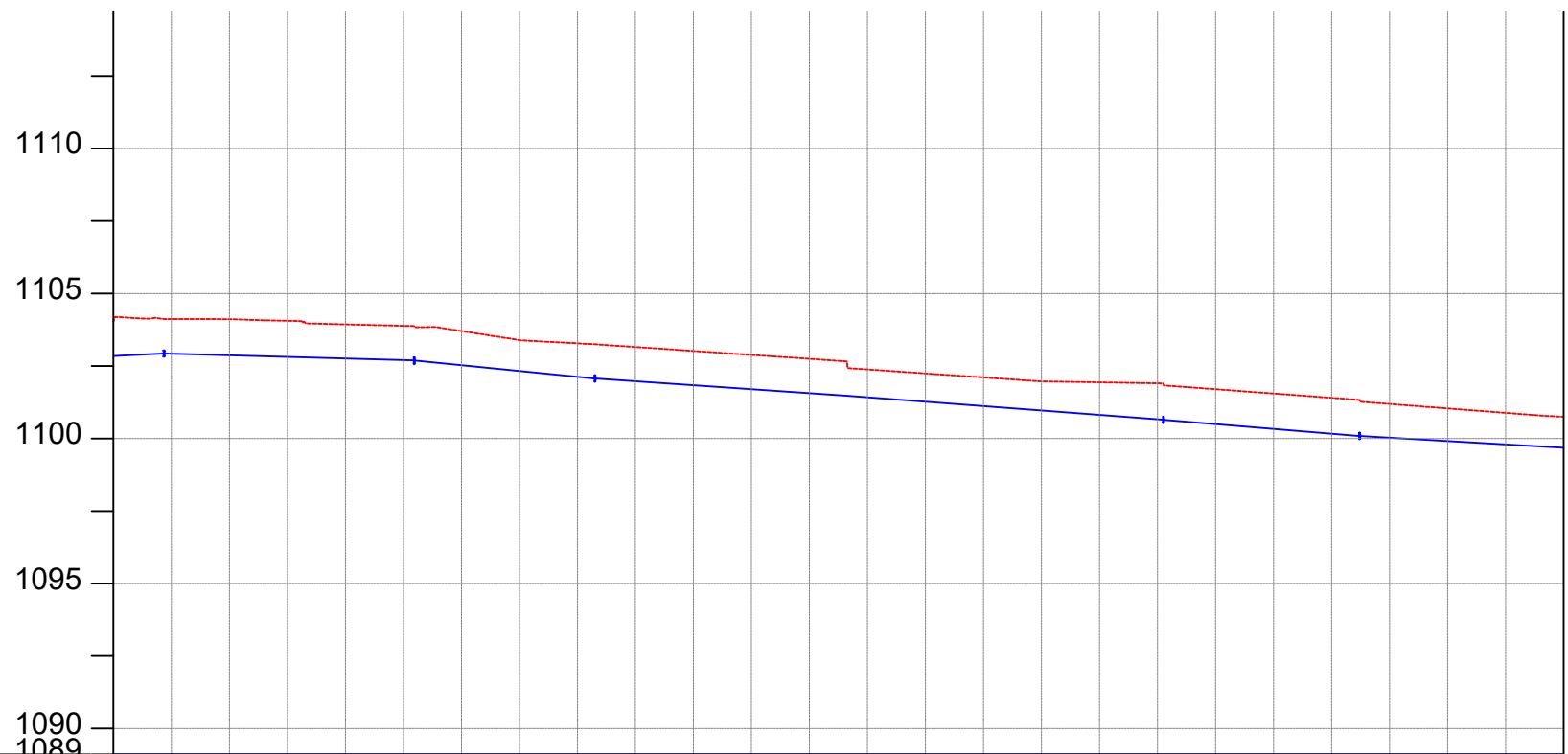


Drawing Title:
KIBUKU TOWN
DL_4 (CH 0+000.00 - 0+342.73)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_4 (CH 0+000.00 - 0+342.73)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+480	0+500
GROUND LEVEL(m)	1104.029	1104.115	1104.113	1104.056	1103.934	1103.884	1103.703	1103.392	1103.279	1103.153	1103.016	1102.880	1102.744	1102.379	1102.241	1102.104	1101.967	1101.935	1101.902	1101.698	1101.550	1101.402	1101.190	1101.036	1100.883	1100.749
PIPE DETAILS	OD90, HDPE PN10												OD63, HDPE PN10													
PIPE INVERT(m)	1102.929	1103.015	1103.013	1102.956	1102.834	1102.784	1102.603	1102.292	1102.179	1102.053	1101.916	1101.780	1101.644	1101.279	1101.141	1101.004	1100.867	1100.835	1100.802	1100.598	1100.450	1100.302	1099.090	1099.936	1099.783	1099.649

AMENDMENTS

No	Date	Revision

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LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- Node detail No. 01

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MINISTRY OF WATER AND ENVIRONMENT

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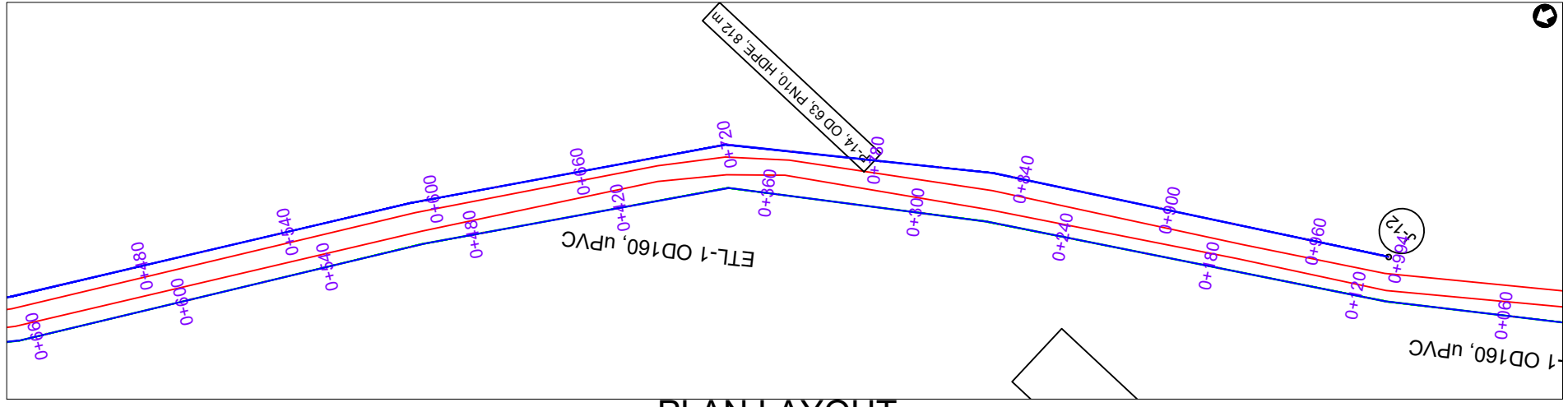
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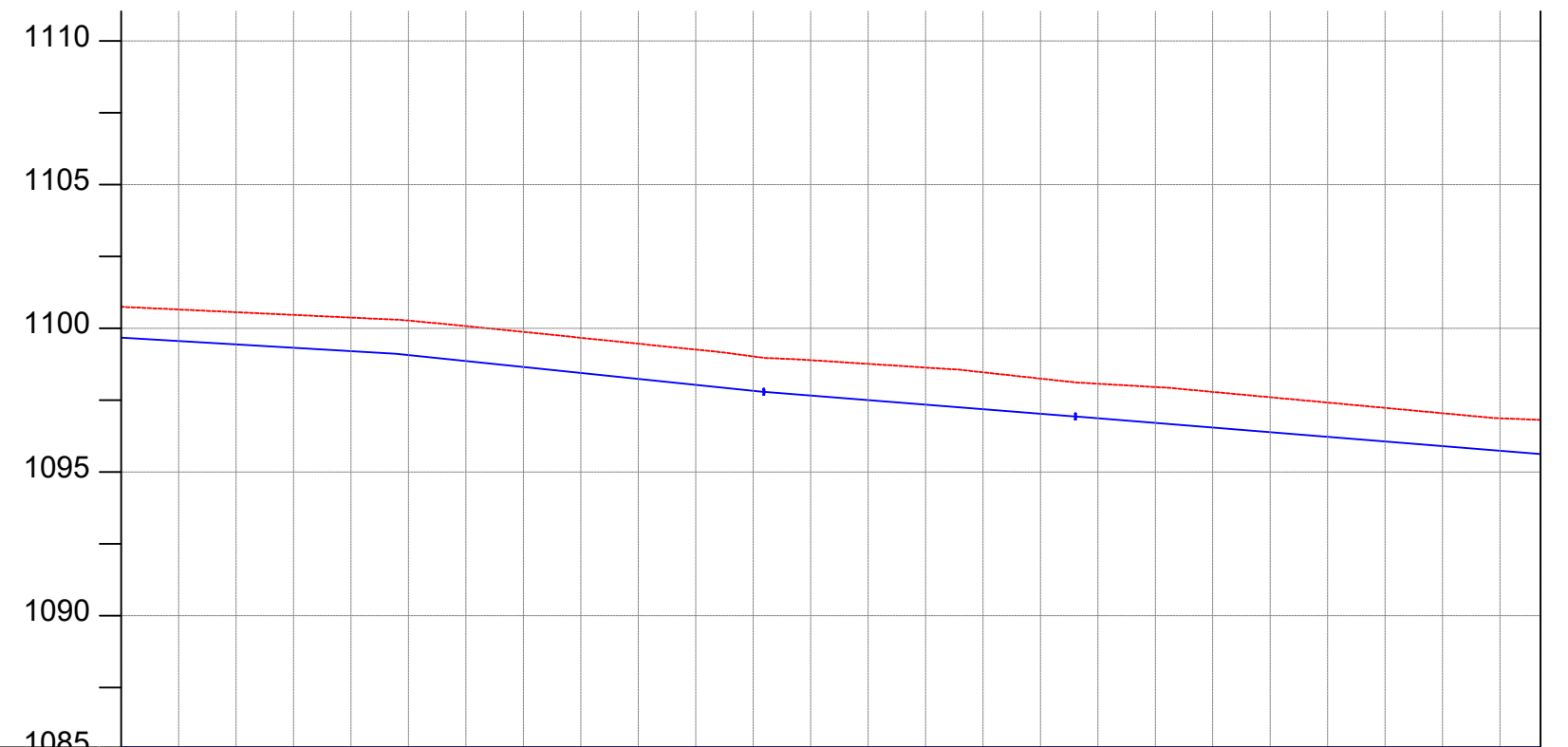


Drawing Title:
KIBUKU TOWN
DL_5 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_5 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520		0+560		0+600		0+640		0+680		0+720		0+760		0+800		0+840		0+880		0+920		0+960	0+994	
GROUND LEVEL(m)	1100.749	1100.655	1100.562	1100.468	1100.375	1100.270	1100.081	1099.878	1099.672	1099.466	1099.260	1099.024	1098.892	1098.764	1098.636	1098.470	1098.252	1098.073	1097.958	1097.788	1097.603	1097.417	1097.232	1097.046	1096.871	
PIPE DETAILS	OD63, HDPE PN10																									
PIPE INVERT(m)	1099.649	1099.555	1099.462	1099.368	1099.275	1099.170	1098.981	1098.778	1098.572	1098.366	1098.160	1097.924	1097.792	1097.664	1097.536	1097.370	1097.152	1096.973	1096.858	1096.688	1096.503	1096.317	1096.132	1095.946	1095.771	

AMENDMENTS		
No	Date	Revision

- NOTES**
- All dimensions are in metres unless stated otherwise.
 - All levels are in metres above sea level.
 - For Site location see Dwg. MBW/0.0.0
 - For Node details, see Dwg. MBW/6.0.0
 - All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

	Transmission Line
	New Distribution Line
	Road
	Double Orifice Air Valve
	Type 2 Washout
	Node detail No. 01

REPUBLIC OF UGANDA

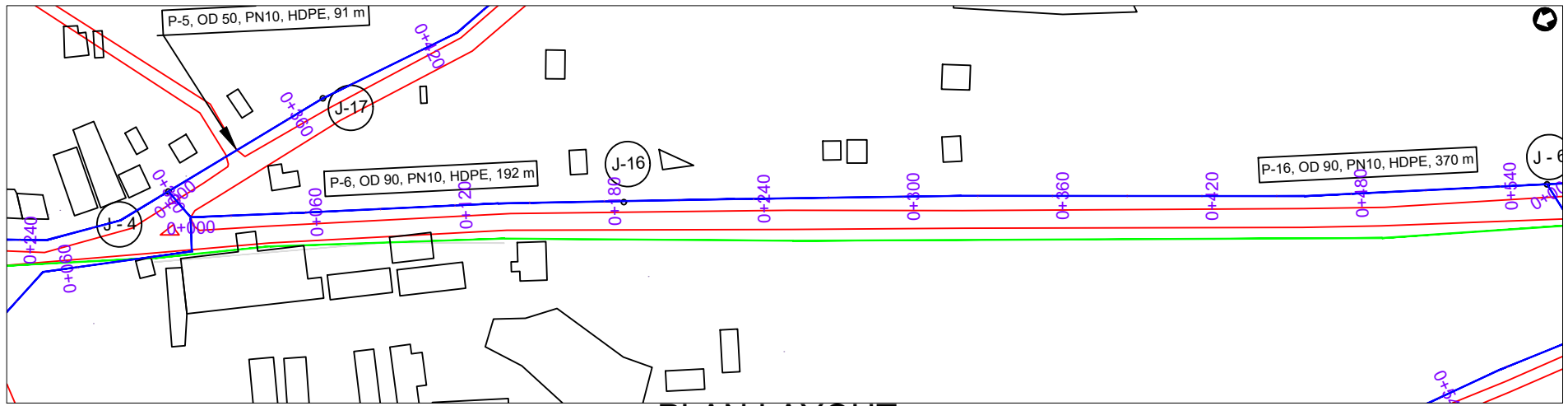
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

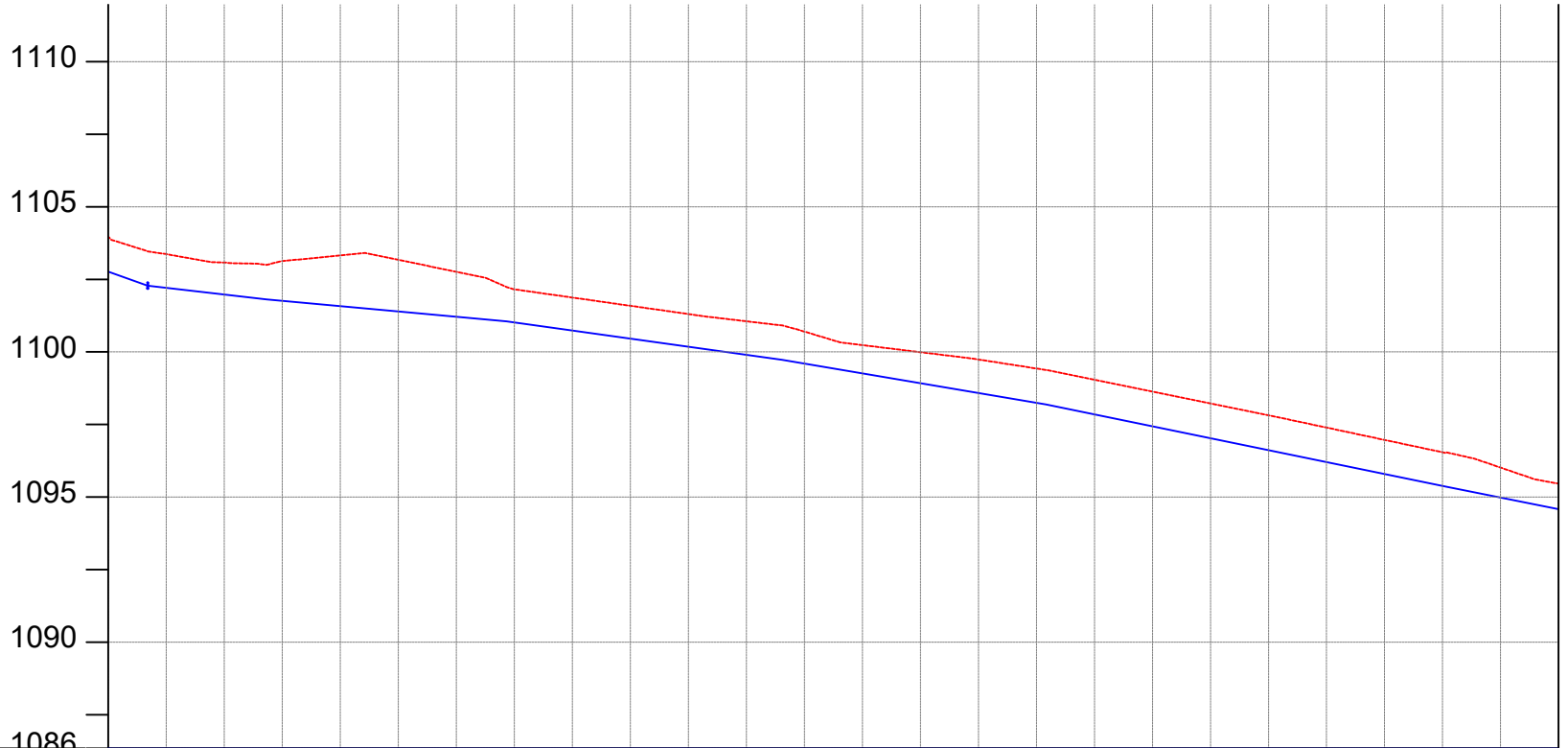
CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_5 (CH 0+500.00 - 0+994.08)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_5 (CH 0+500.00 - 0+994.08)	
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+480	0+500
GROUND LEVEL(m)	1103.951	1103.368	1103.079	1103.128	1103.324	1103.173	1102.760	1102.157	1101.873	1101.589	1101.305	1101.056	1100.700	1100.235	1099.991	1099.739	1099.429	1099.040	1098.632	1098.223	1097.815	1097.395	1096.969	1096.543	1096.016	1095.461
PIPE DETAILS	OD90, HDPE PN10												OD90, HDPE PN10													
PIPE INVERT(m)	1102.851	1102.268	1101.979	1102.028	1102.224	1102.073	1101.660	1101.057	1100.773	1100.489	1100.205	1099.956	1099.600	1099.135	1098.891	1098.639	1098.329	1097.940	1097.532	1097.123	1096.715	1096.295	1095.869	1095.443	1094.916	1094.361

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
 2. All levels are in metres above sea level.
 3. For Site location see Dwg. MBW/0.0.0
 4. For Node details, see Dwg. MBW/6.0.0
 5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- - - Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

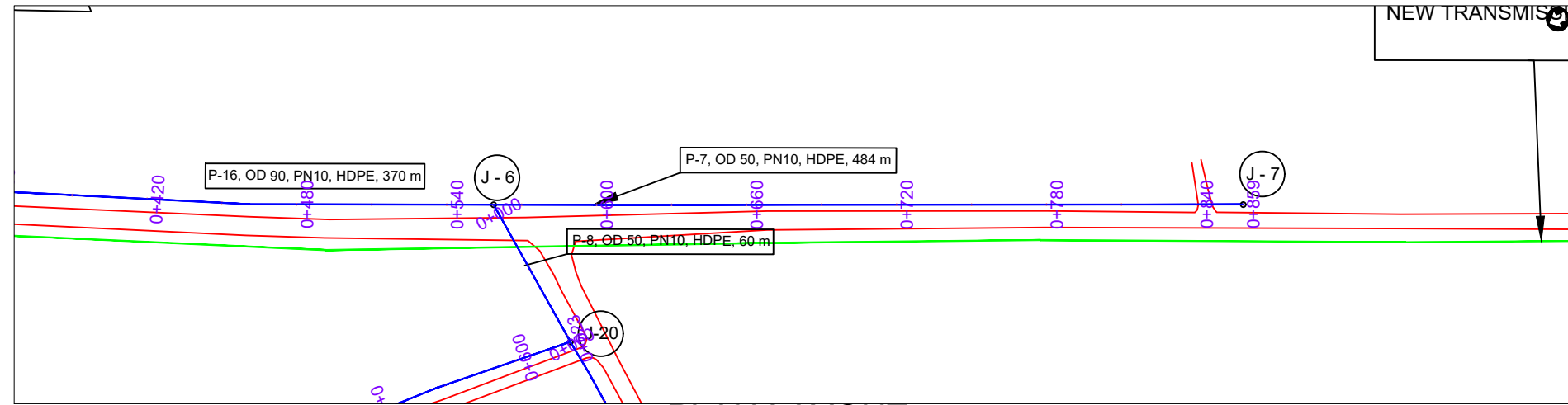
MINISTRY OF WATER AND ENVIRONMENT
NATIONAL WATER AND SEWERAGE CORPORATION

PROJECT:
CONSULTANCY SERVICES FOR DESIGN
REVIEW OF MBALE WATER
AND SANITATION PROJECT

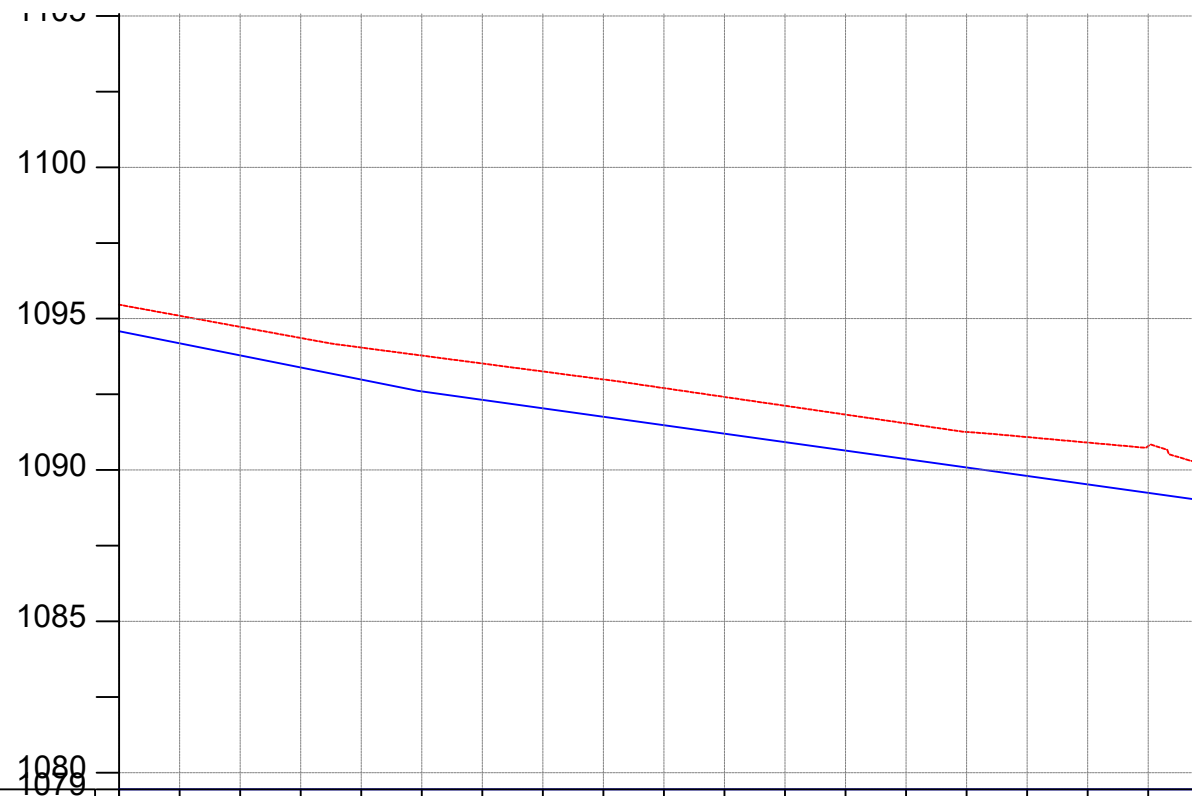
CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_6 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_6 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800	0+840	0+859									
GROUND LEVEL(m)	1095.461	1095.094	1094.728	1094.361	1094.045	1093.781	1093.518	1093.255	1092.992	1092.706	1092.414	1092.123	1091.831	1091.539	1091.257	1091.088	1090.907	1090.788	1090.167	1089.067
PIPE DETAILS	OD 90, HDPE PN10											OD 63, HDPE PN10								
PIPE INVERT(m)	1094.361	1093.994	1093.628	1093.261	1092.945	1092.681	1092.418	1092.155	1091.892	1091.606	1091.314	1091.023	1090.731	1090.439	1090.157	1089.988	1089.807	1089.688	1089.067	1089.067

AMENDMENTS

No	Date	Revision

NOTES

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- // Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

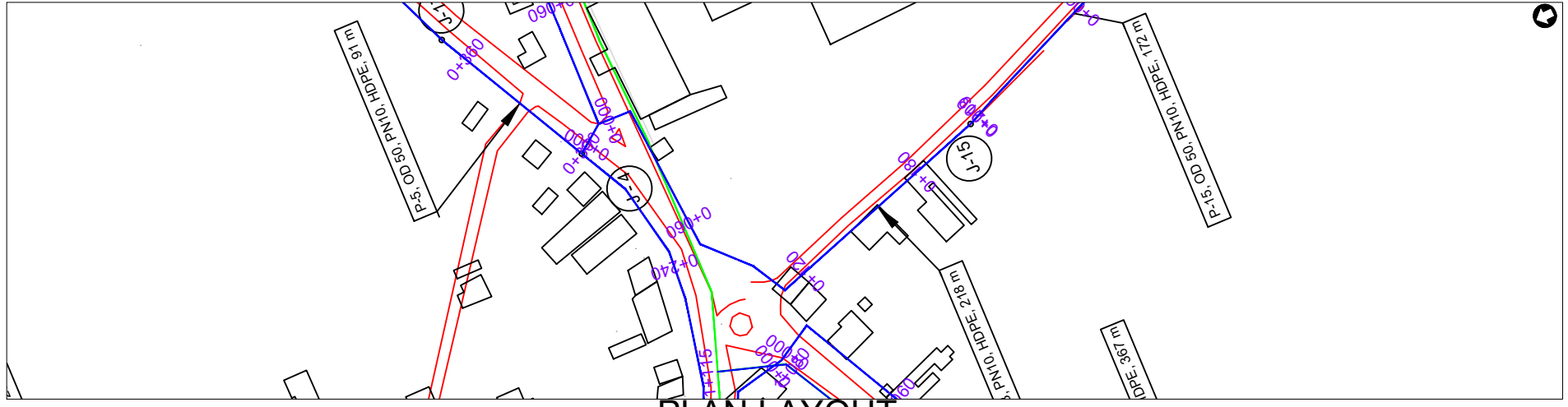
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

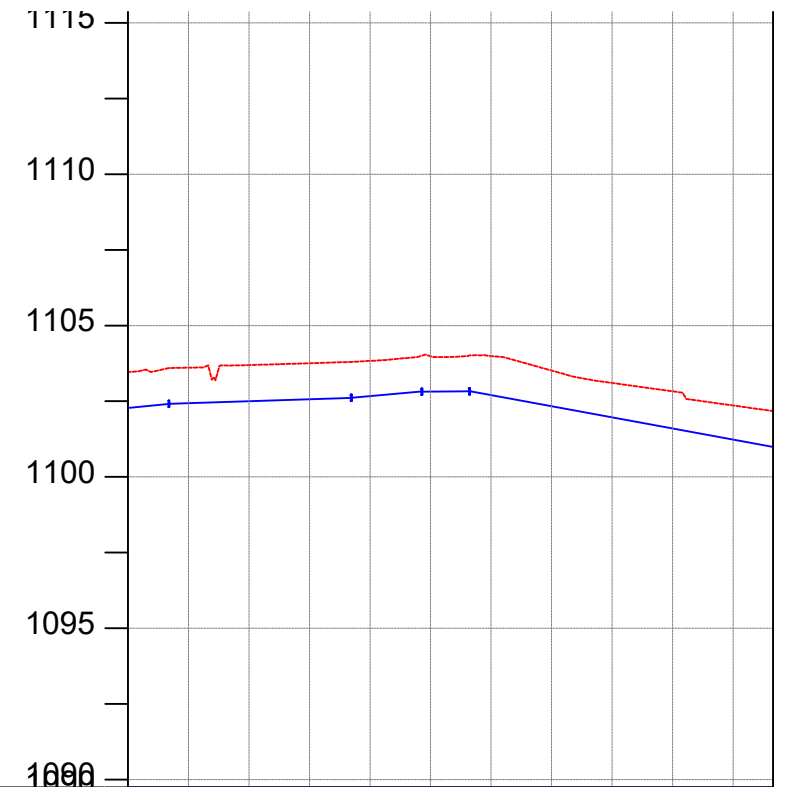


Drawing Title:
KIBUKU TOWN
DL_6 (CH 0+500.00 - 0+858.74)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_6 (CH 0+500.00 - 0+858.74)	
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200	0+213
GROUND LEVEL(m)	1103.462	1103.609	1103.693	1103.755	1103.833	1103.988	1103.994	1103.513	1103.103	1102.827	1102.359	1102.175
PIPE DETAILS	OD63, HDPE PN10											
PIPE INVERT(m)	1102.362	1102.509	1102.593	1102.655	1102.733	1102.888	1102.894	1102.413	1102.003	1101.727	1101.259	1101.075

AMENDMENTS

No	Date	Revision

NOTES

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MB/W/0.0.0
4. For Node details, see Dwg. MB/W/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

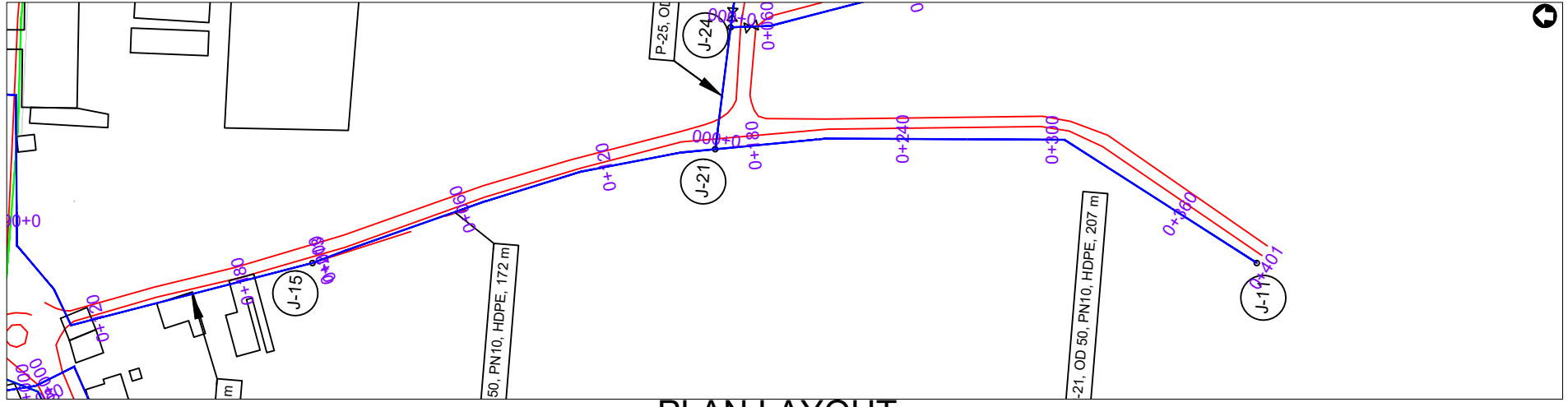
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

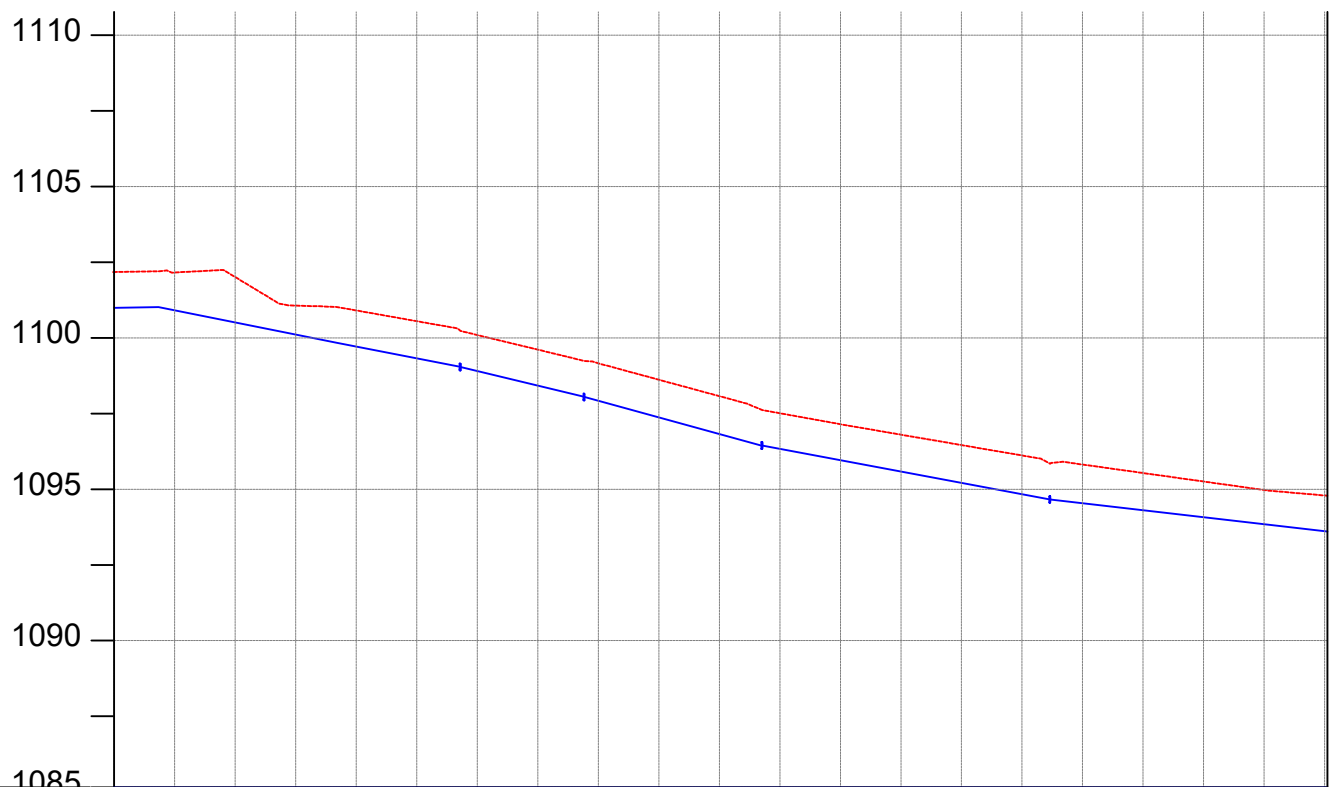


Drawing Title:
KIBUKU TOWN
DL_7 (CH 0+000.00 - 0+213.15)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_7 (CH 0+000.00 - 0+213.15)
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400	
GROUND LEVEL(m)	1102.175	1102.159	1102.010	1101.067	1100.906	1100.552	1100.095	1099.611	1099.157	1098.618	1098.075	1097.510	1097.148	1096.803	1096.459	1096.116	1095.817	1095.536	1095.255	1094.975	1094.794	
PIPE DETAILS	← OD50, HDPE PN10 → ← OD50, HDPE PN10 →																					
PIPE INVERT(m)	1101.075	1101.059	1100.910	1099.967	1099.806	1099.452	1098.995	1098.511	1098.057	1097.518	1096.975	1096.410	1096.048	1095.703	1095.359	1095.016	1094.717	1094.436	1094.155	1093.875	1093.694	

AMENDMENTS

No	Date	Revision

NOTES

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MB/W/0.0.0
4. For Node details, see Dwg. MB/W/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

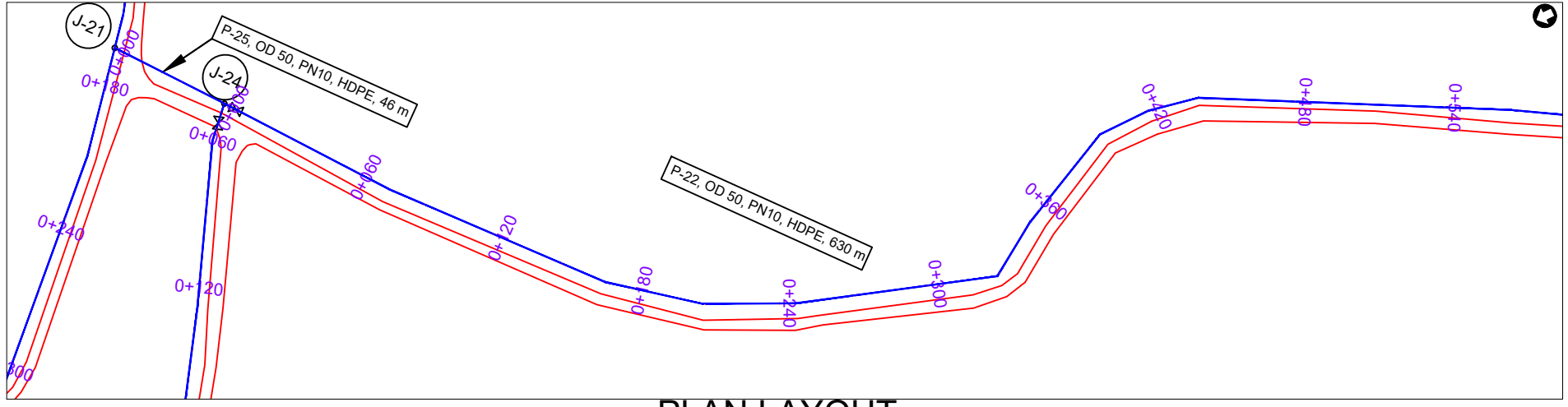
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

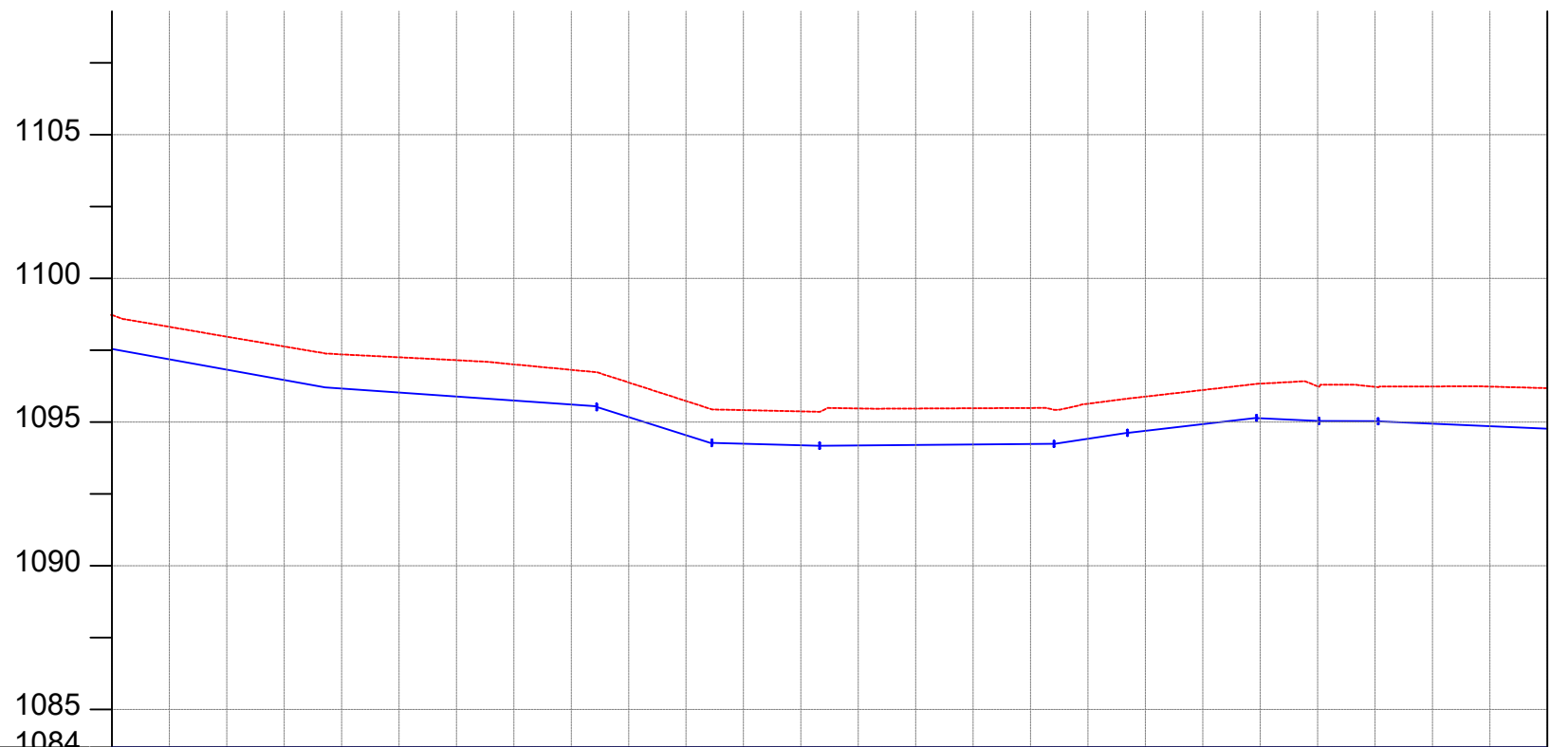


Drawing Title:
KIBUKU TOWN
DL_8 (CH 0+000.00 - 0+400.92)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_8 (CH 0+000.00 - 0+400.92)
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+480	0+500		
GROUND LEVEL(m)	1098.729	1098.315	1097.973	1097.631	1097.357	1097.255	1097.154	1097.008	1096.818	1096.378	1095.733	1095.416	1095.373	1095.475	1095.472	1095.481	1095.491	1095.639	1095.887	1096.115	1096.337	1096.244	1096.228	1096.241	1096.235	1096.180		
PIPE DETAILS	OD50, HDPE PN10																											
PIPE INVERT(m)	1097.629	1097.215	1096.873	1096.531	1096.257	1096.155	1096.054	1095.908	1095.718	1095.278	1094.633	1094.316	1094.273	1094.375	1094.372	1094.381	1094.391	1094.539	1094.787	1095.015	1095.237	1095.144	1095.128	1095.141	1095.135	1095.080		

AMENDMENTS		
No	Date	Revision

- NOTES**
- All dimensions are in metres unless stated otherwise.
 - All levels are in metres above sea level.
 - For Site location see Dwg. MB/W/0.0.0
 - For Node details, see Dwg. MB/W/6.0.0
 - All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

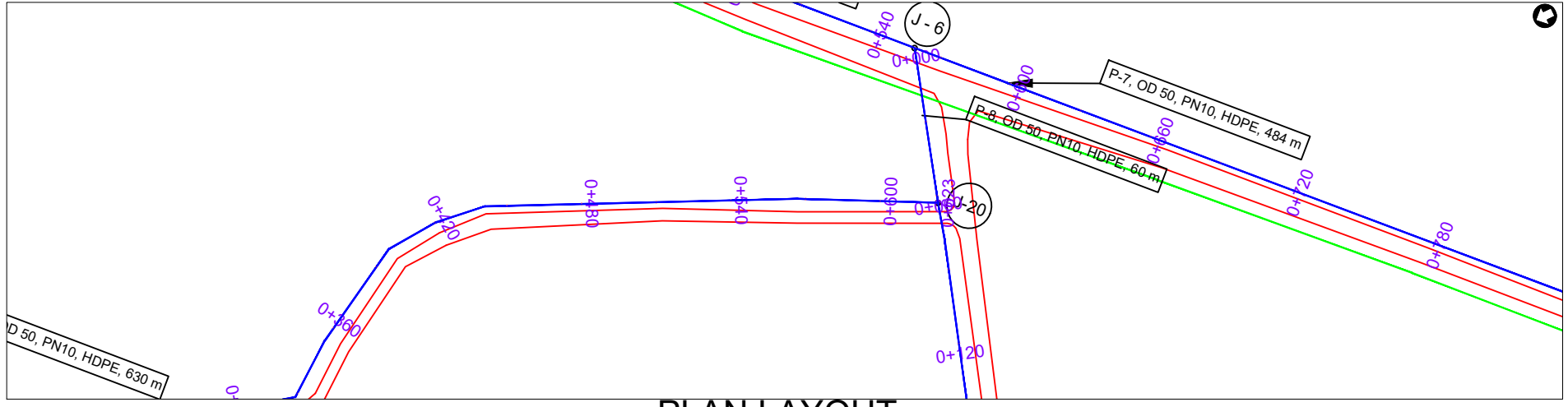
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

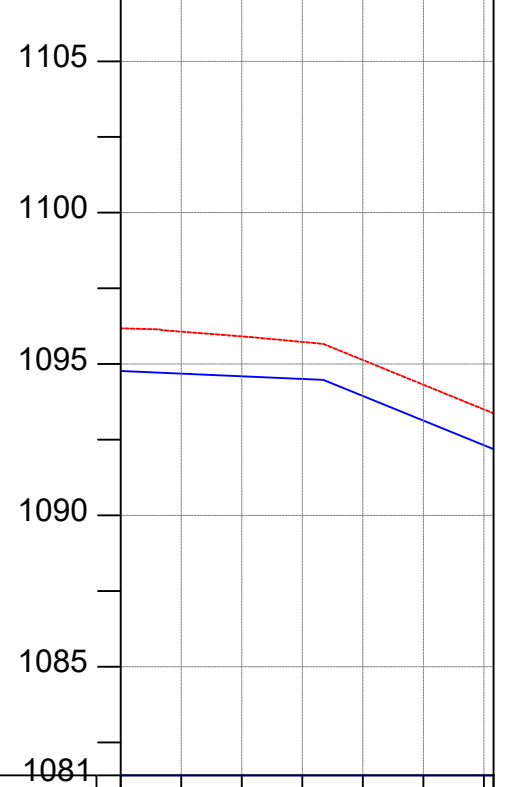
CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_9 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_9 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520		0+560		0+600	0+623.20
GROUND LEVEL(m)	1096.180	1096.069	1095.914	1095.730	1095.133	1094.318	1093.592
PIPE DETAILS	OD50, HDPE PN10						
PIPE INVERT(m)	1095.080	1094.969	1094.814	1094.630	1094.033	1093.218	1092.492

AMENDMENTS		
No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
 2. All levels are in metres above sea level.
 3. For Site location see Dwg. MBW/0.0.0
 4. For Node details, see Dwg. MBW/6.0.0
 5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

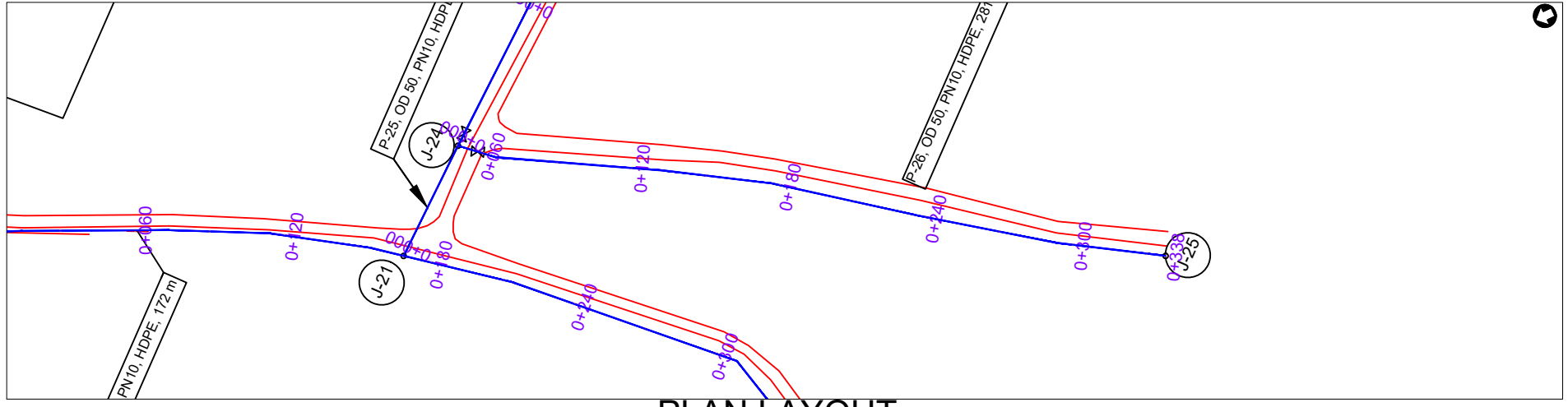
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

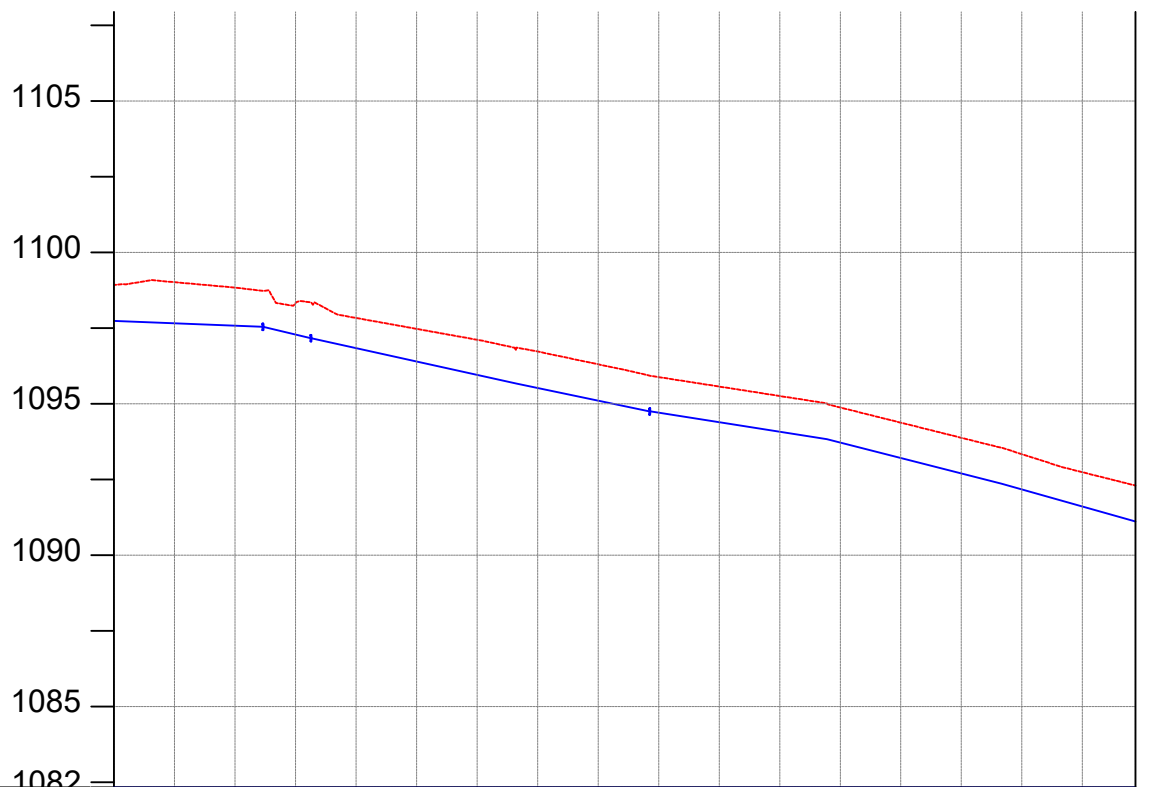
CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_9 (CH 0+500.00 - 0+623.20)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_9 (CH 0+500.00 - 0+623.20)	
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+320	0+338								
GROUND LEVEL(m)	1098.925	1099.017	1098.839	1098.324	1097.836	1097.475	1097.115	1096.727	1096.305	1095.882	1095.570	1095.258	1094.877	1094.377	1093.877	1093.336	1092.741	1092.299
PIPE DETAILS	OD50, HDPE PN10																	
PIPE INVERT(m)	1097.825	1097.917	1097.739	1097.224	1096.736	1096.375	1096.015	1095.627	1095.205	1094.782	1094.470	1094.158	1093.777	1093.277	1092.777	1092.236	1091.641	1091.199

AMENDMENTS

No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
 2. All levels are in metres above sea level.
 3. For Site location see Dwg. MB/W/0.0.0
 4. For Node details, see Dwg. MB/W/6.0.0
 5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- = Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

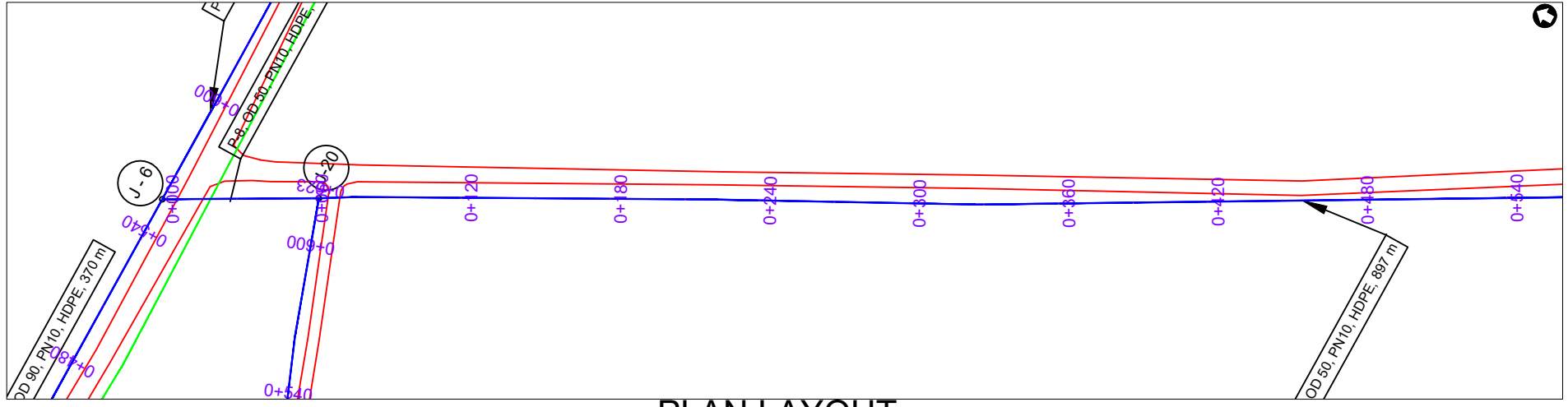
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

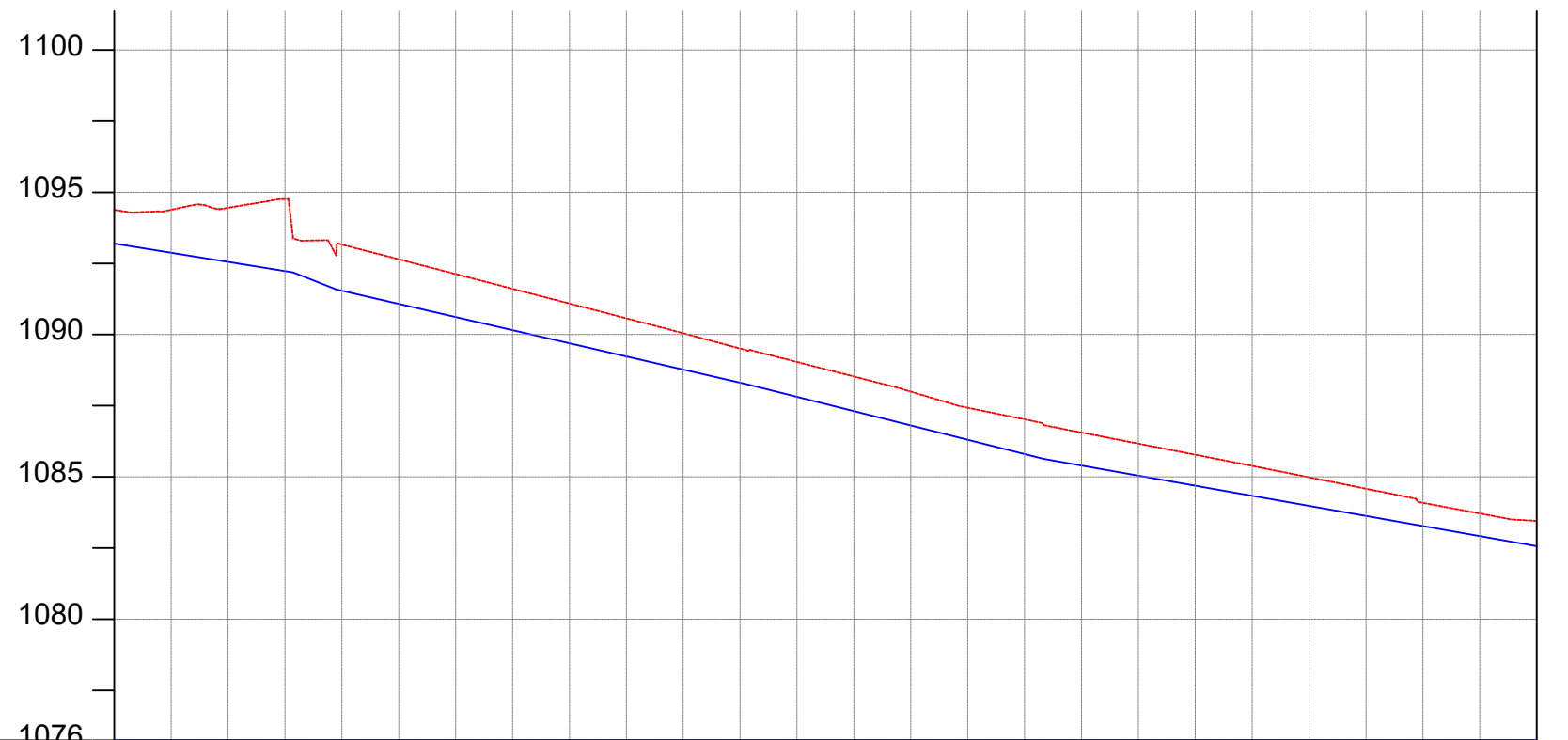
CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_10 (CH 0+000.00 - 0+337.55)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_10 (CH 0+000.00 - 0+337.55)
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+480	0+500		
GROUND LEVEL(m)	1094.383	1094.385	1094.454	1094.761	1093.164	1092.645	1092.127	1091.609	1091.090	1090.572	1090.046	1089.508	1089.037	1088.526	1087.995	1087.431	1087.018	1086.559	1086.168	1085.778	1085.386	1084.985	1084.585	1084.088	1083.714	1083.453		
PIPE DETAILS	OD50, HDPE PN10																											
PIPE INVERT(m)	1093.283	1093.285	1093.354	1093.661	1092.064	1091.545	1091.027	1090.509	1089.990	1089.472	1088.946	1088.408	1087.937	1087.426	1086.895	1086.331	1085.918	1085.459	1085.068	1084.678	1084.286	1083.885	1083.485	1082.988	1082.614	1082.353		

AMENDMENTS		
No	Date	Revision

- NOTES**
- All dimensions are in metres unless stated otherwise.
 - All levels are in metres above sea level.
 - For Site location see Dwg. MB/W/0.0.0
 - For Node details, see Dwg. MB/W/6.0.0
 - All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

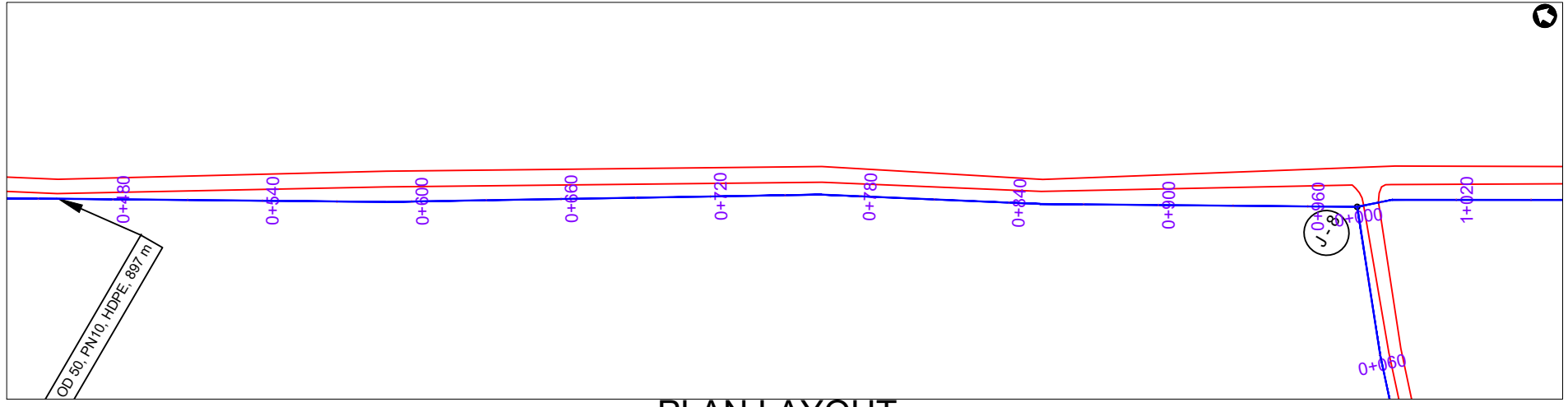
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

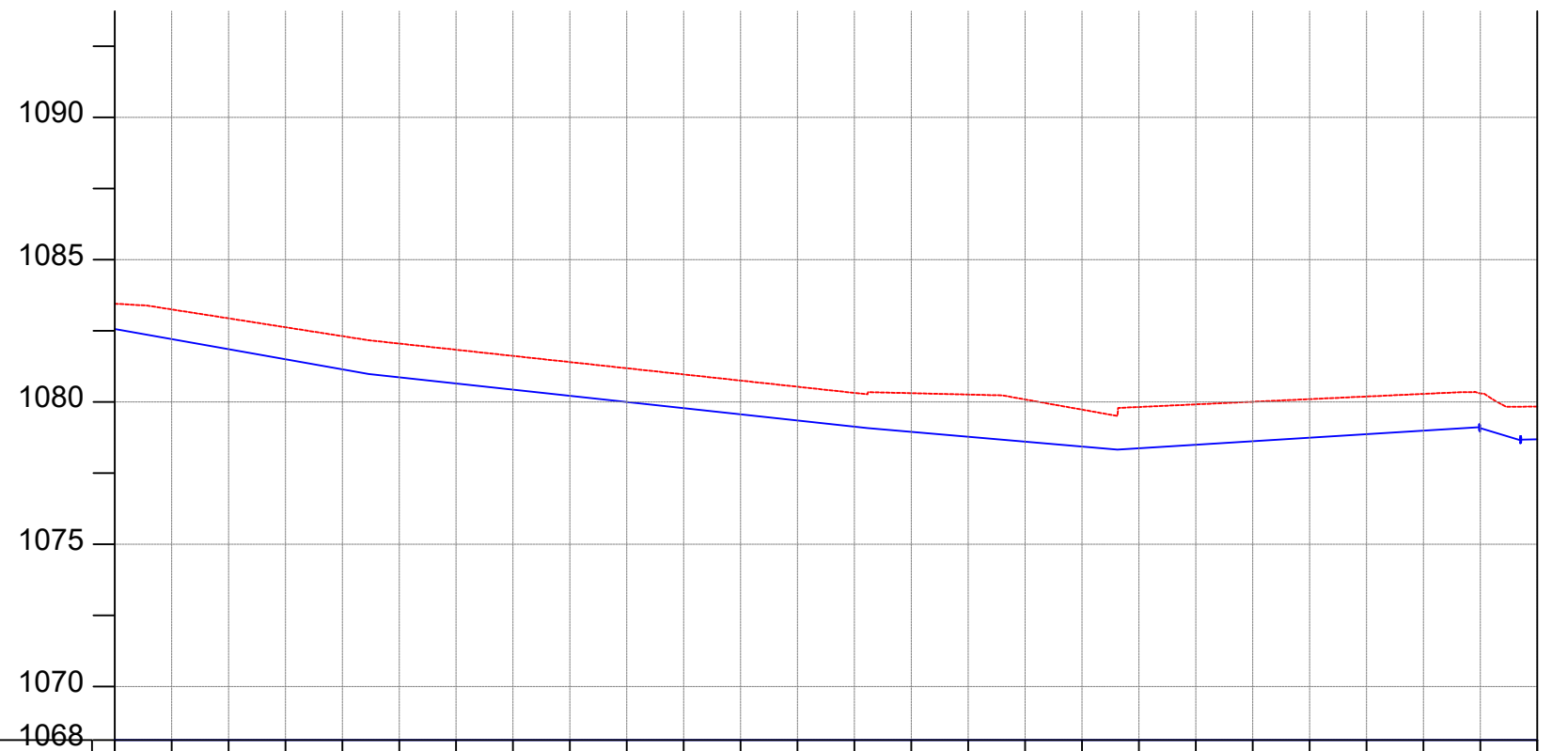
CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_11 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_11 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800	0+840	0+880	0+920	0+960	1+000														
GROUND LEVEL(m)	1083.453	1083.251	1082.938	1082.625	1082.312	1082.051	1081.834	1081.618	1081.401	1081.184	1080.967	1080.751	1080.534	1080.317	1080.307	1080.259	1080.087	1079.730	1079.822	1079.914	1080.006	1080.099	1080.191	1080.283	1080.296	1079.837	1+000	
PIPE DETAILS	OD50, HDPE PN10																											
PIPE INVERT(m)	1082.353	1082.151	1081.838	1081.525	1081.212	1080.951	1080.734	1080.518	1080.301	1080.084	1079.867	1079.651	1079.434	1079.217	1079.207	1079.159	1078.987	1078.630	1078.722	1078.814	1078.906	1078.999	1079.091	1079.183	1079.196	1078.737	1+000	

AMENDMENTS

No	Date	Revision

- NOTES**
1. All dimensions are in metres unless stated otherwise.
 2. All levels are in metres above sea level.
 3. For Site location see Dwg. MBW/0.0.0
 4. For Node details, see Dwg. MBW/6.0.0
 5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- - - Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

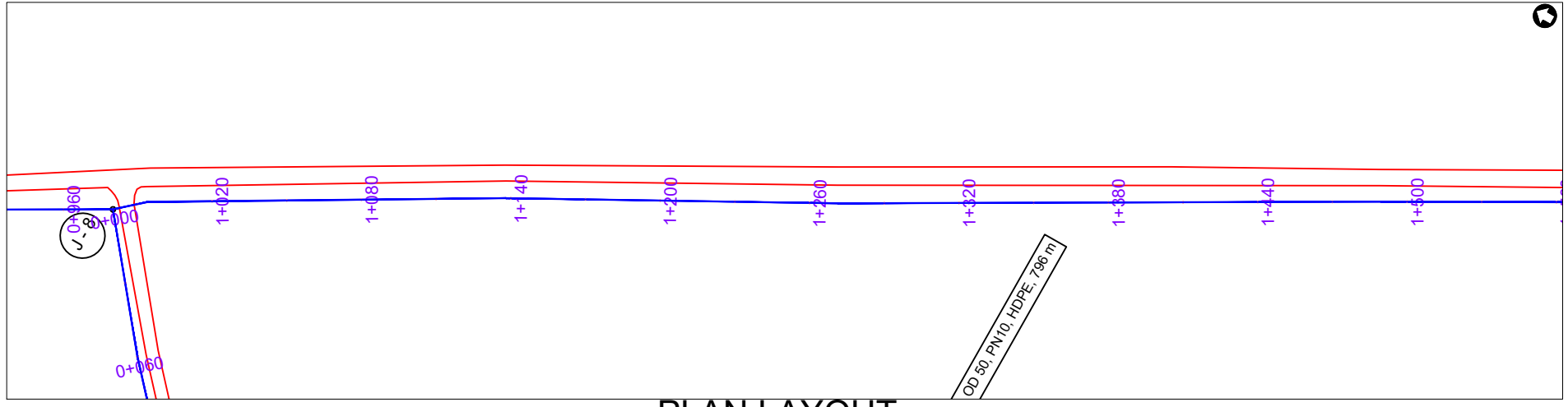
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

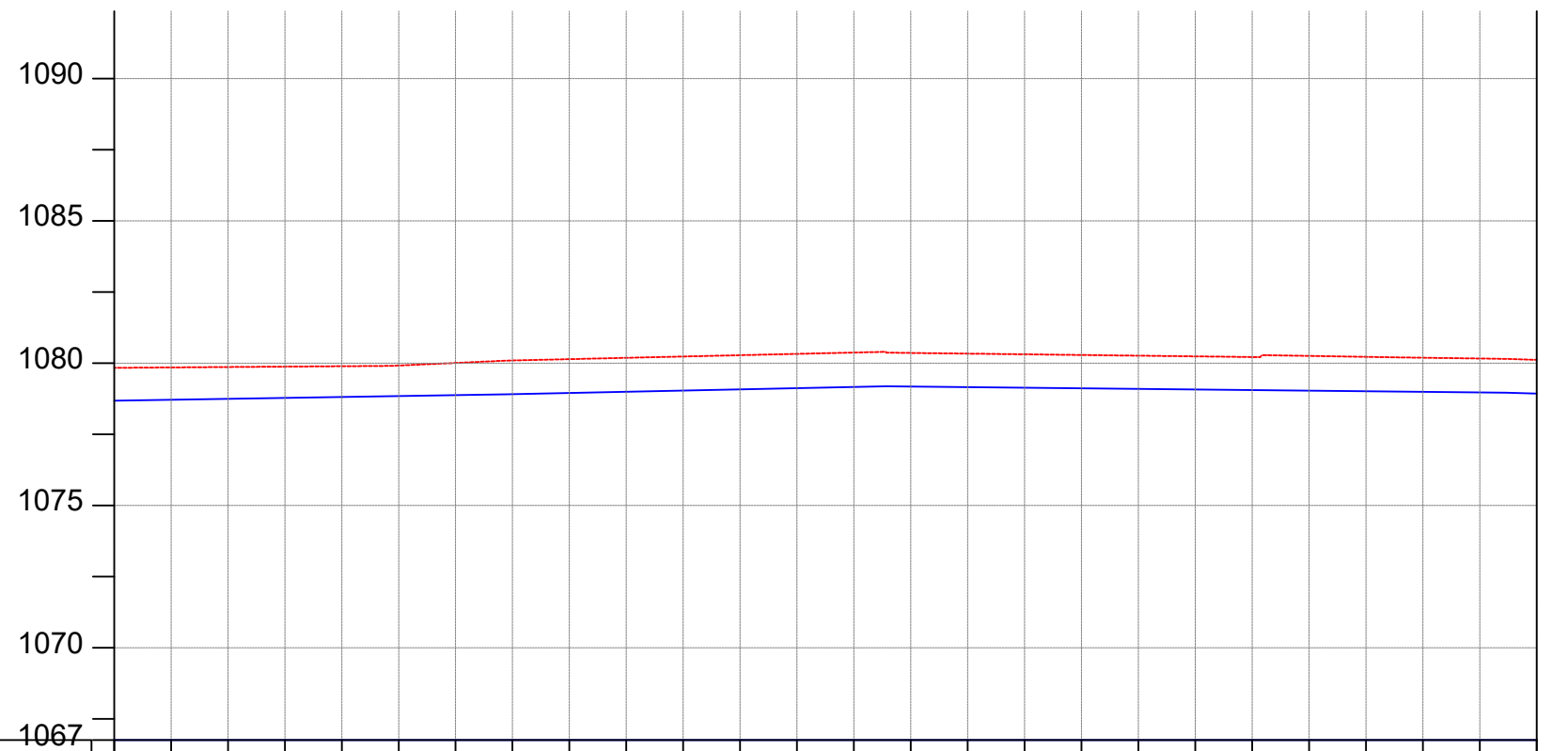
CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_11 (CH 0+500.00 - 1+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_11 (CH 0+500.00 - 1+000.00)
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	1+000		1+040		1+080		1+120		1+160		1+200		1+240		1+280		1+320		1+360		1+400		1+440		1+480	1+500		
GROUND LEVEL(m)	1079.837	1079.851	1079.865	1079.879	1079.894	1079.918	1080.009	1080.096	1080.142	1080.188	1080.235	1080.281	1080.328	1080.374	1080.361	1080.336	1080.312	1080.288	1080.264	1080.240	1080.216	1080.256	1080.222	1080.192	1080.164	1080.118		
PIPE DETAILS	OD50, HDPE PN10																											
PIPE INVERT(m)	1078.737	1078.751	1078.765	1078.779	1078.794	1078.818	1078.909	1078.996	1079.042	1079.088	1079.135	1079.181	1079.228	1079.274	1079.261	1079.236	1079.212	1079.188	1079.164	1079.140	1079.116	1079.156	1079.122	1079.092	1079.064	1079.018		

AMENDMENTS

No	Date	Revision

NOTES

1. All dimensions are in metres unless stated otherwise.
2. All levels are in metres above sea level.
3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

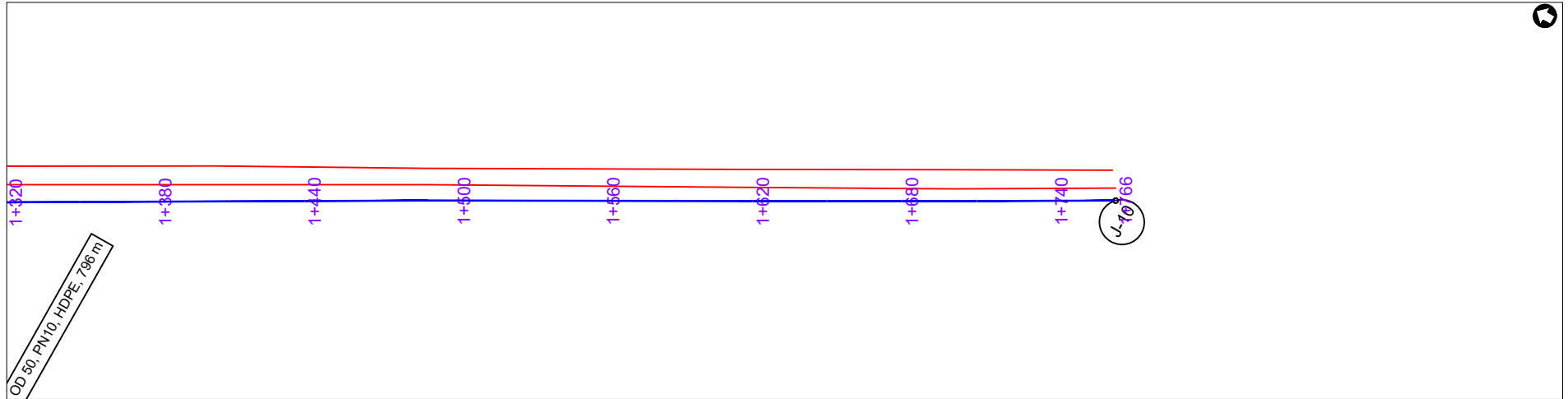
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

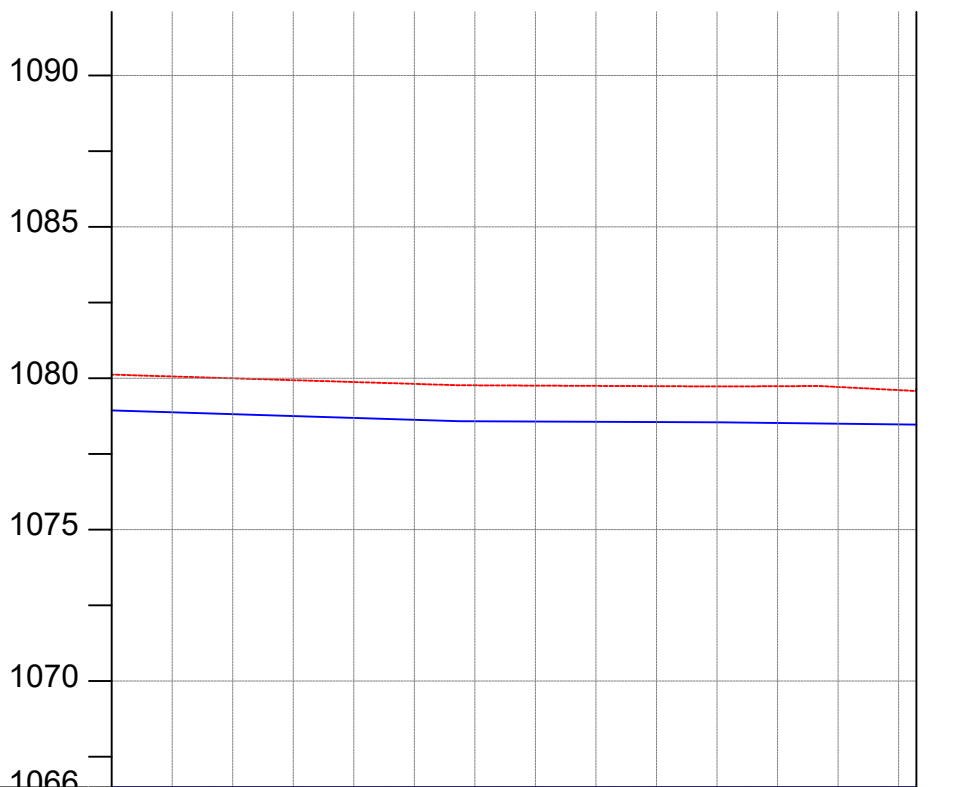


Drawing Title:
KIBUKU TOWN
DL_11 (CH 1+000.00 - 1+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_11 (CH 1+000.00 - 1+500.00)	
Sheet No.: 3	Format: A3



PLAN LAYOUT



CHAINAGE	1+500	1+520	1+560	1+600	1+640	1+680	1+720	1+766
GROUND LEVEL(m)	1080.118	1080.057	1079.996	1079.935	1079.873	1079.812	1079.765	1079.755
PIPE DETAILS	OD50, HDPE PN10							
PIPE INVERT(m)	1079.018	1078.957	1078.896	1078.835	1078.773	1078.712	1078.665	1078.655
	1079.699	1079.639	1079.579	1079.519	1079.459	1079.399	1079.339	1079.279

AMENDMENTS

No	Date	Revision

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LEGEND

- Transmission Line
- New Distribution Line
- // Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- N01 Node detail No. 01

REPUBLIC OF UGANDA

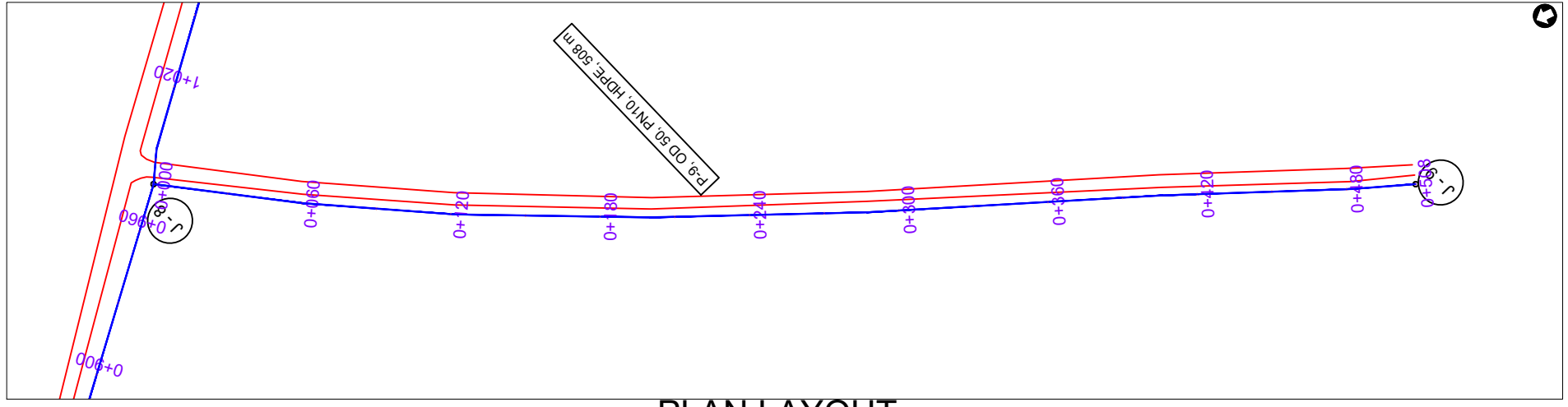
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

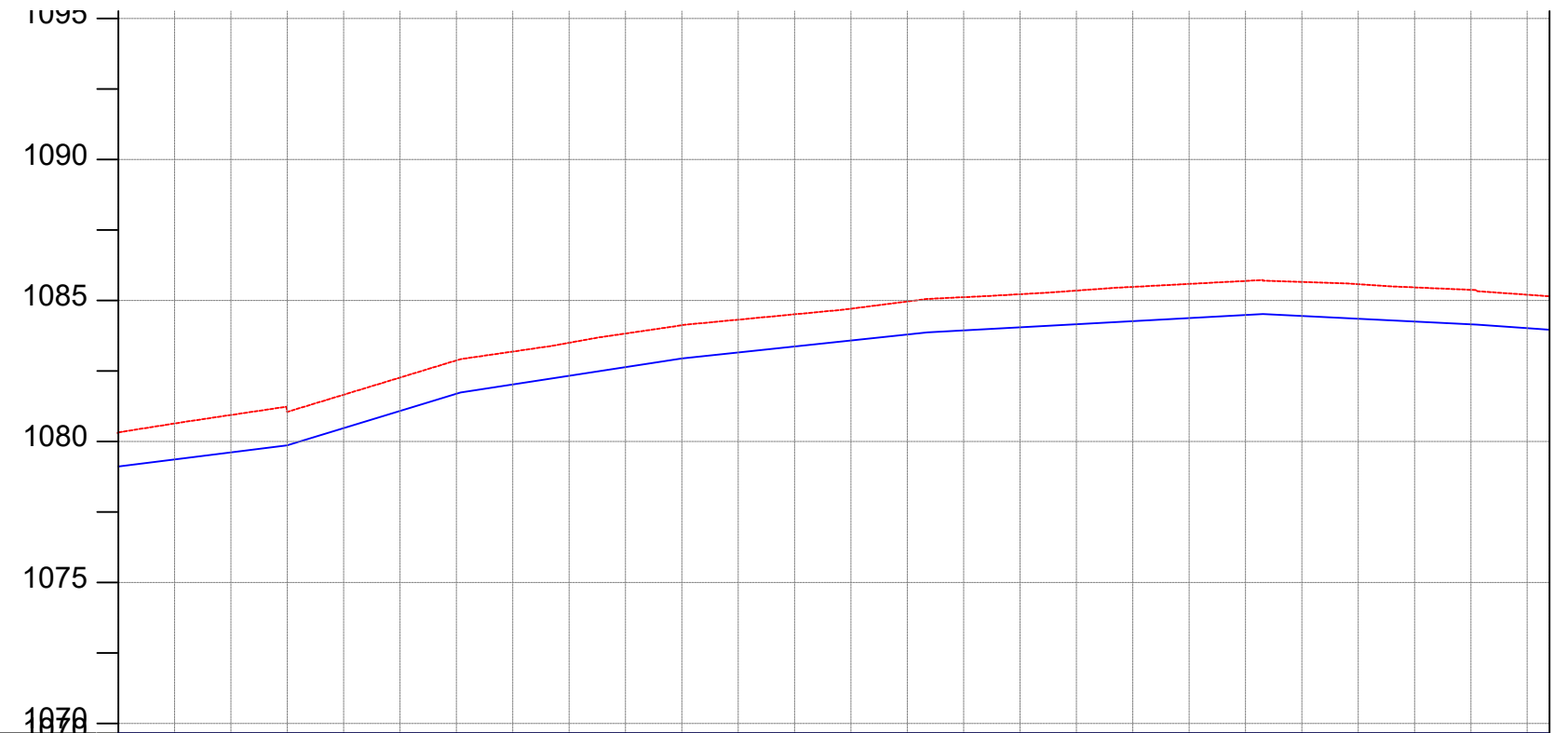
CONSULTANT:

Drawing Title:
KIBUKU TOWN
DL_11 (CH 1+500.00 - 1+765.89)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_11 (CH 1+500.00 - 1+765.89)
Sheet No.: 4	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
0+000	1080.297	OD50, HDPE PN10	1079.197
0+040	1080.638		1079.538
0+080	1080.940		1079.840
0+120	1081.050		1079.950
0+160	1081.658		1080.558
0+200	1082.267		1081.167
0+240	1082.875		1081.775
0+280	1083.188		1082.088
0+320	1083.500		1082.400
0+360	1083.828		1082.728
0+400	1084.129		1083.029
0+440	1084.319		1083.219
0+480	1084.509		1083.409
0+508	1084.709		1083.609
	1084.964		1083.864
	1085.117		1084.017
	1085.223		1084.123
	1085.351		1084.251
	1085.482		1084.382
	1085.587		1084.487
	1085.693	1084.593	
	1085.658	1084.558	
	1085.577	1084.477	
	1085.464	1084.364	
	1085.377	1084.277	
	1085.205	1084.105	
	1085.145	1084.049	

AMENDMENTS

No	Date	Revision

- NOTES**
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 - For Node details, see Dwg. MBW/6.0.0
 - All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- - - Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

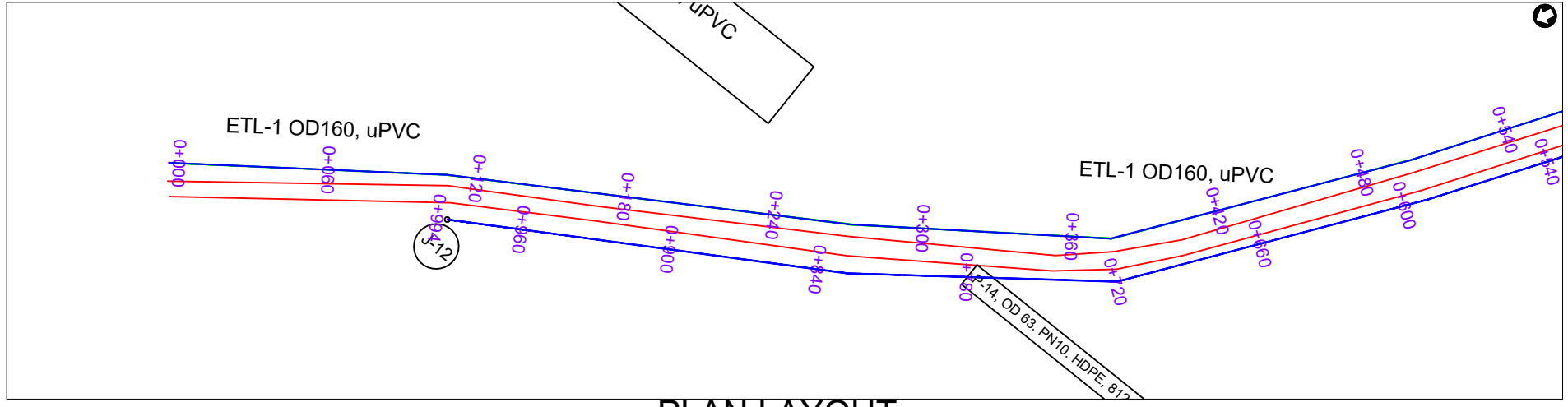
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

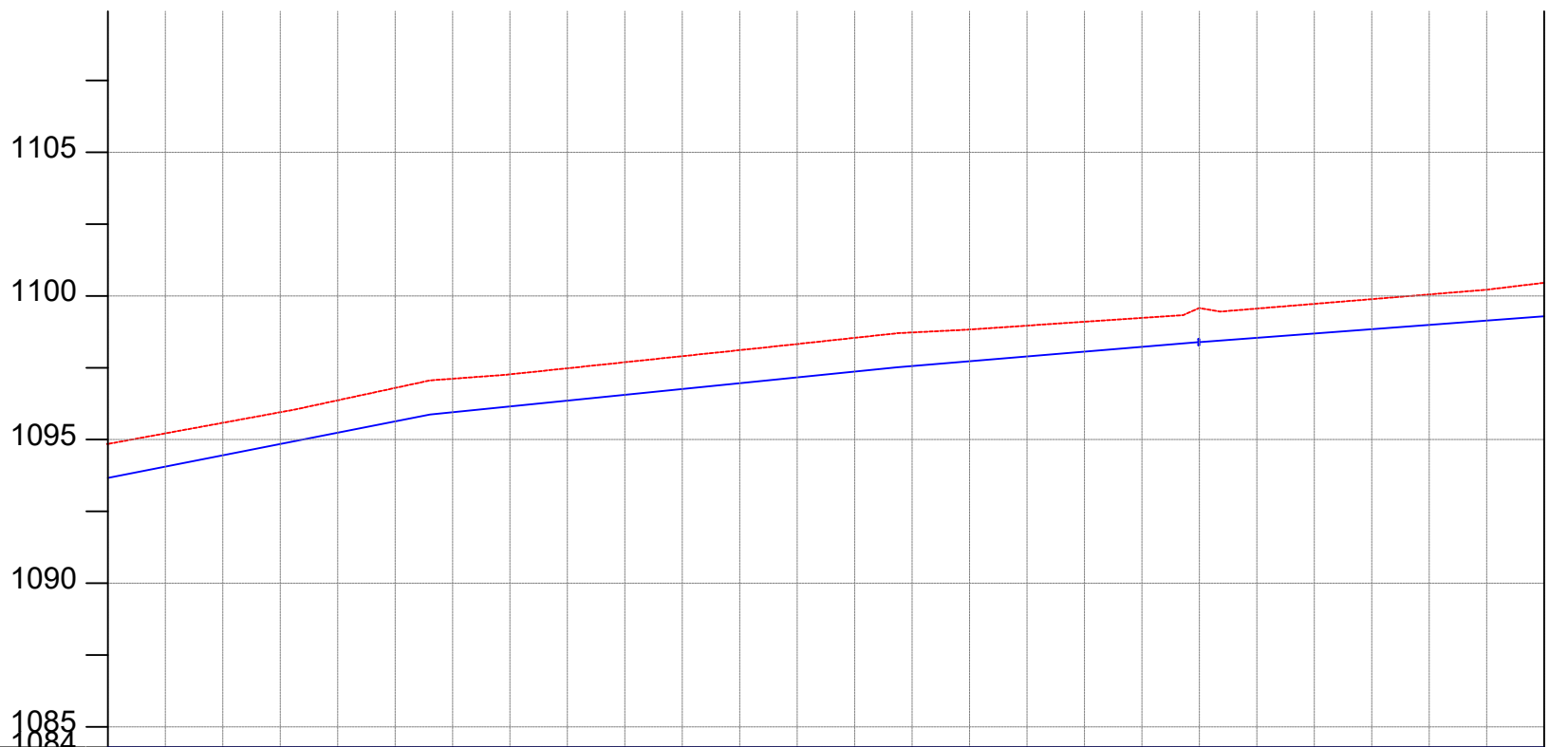


Drawing Title:
KIBUKU TOWN
DL_12 (CH 0+000.00 - 0+507.88)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/DL_12 (CH 0+000.00 - 0+507.88)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240		0+280		0+320		0+360		0+400		0+440		0+480		0+500	
GROUND LEVEL(m)	1094.848	1095.216	1095.583	1095.951	1096.366	1096.797	1097.117	1097.270	1097.481	1097.691	1097.902	1098.113	1098.325	1098.541	1098.727	1098.830	1098.965	1099.099	1099.234	1099.576	1099.559	1099.723	1099.887	1100.051	1100.215	1100.456		
PIPE DETAILS	OD160, uPVC, PN10																											
PIPE INVERT(m)	1093.748	1094.116	1094.483	1094.851	1095.266	1095.697	1096.017	1096.170	1096.381	1096.591	1096.802	1097.013	1097.225	1097.441	1097.627	1097.730	1097.865	1097.999	1098.134	1098.476	1098.459	1098.623	1098.787	1098.951	1099.115	1099.356		

AMENDMENTS

No	Date	Revision

NOTES

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3. For Site location see Dwg. MBW/0.0.0
4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- Node detail No. 01

REPUBLIC OF UGANDA



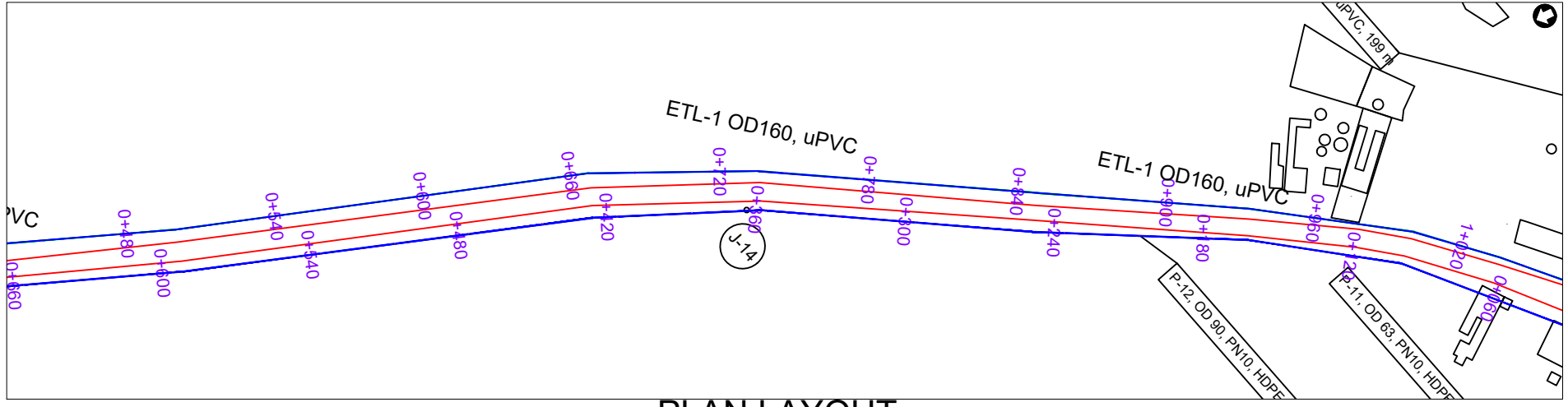
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

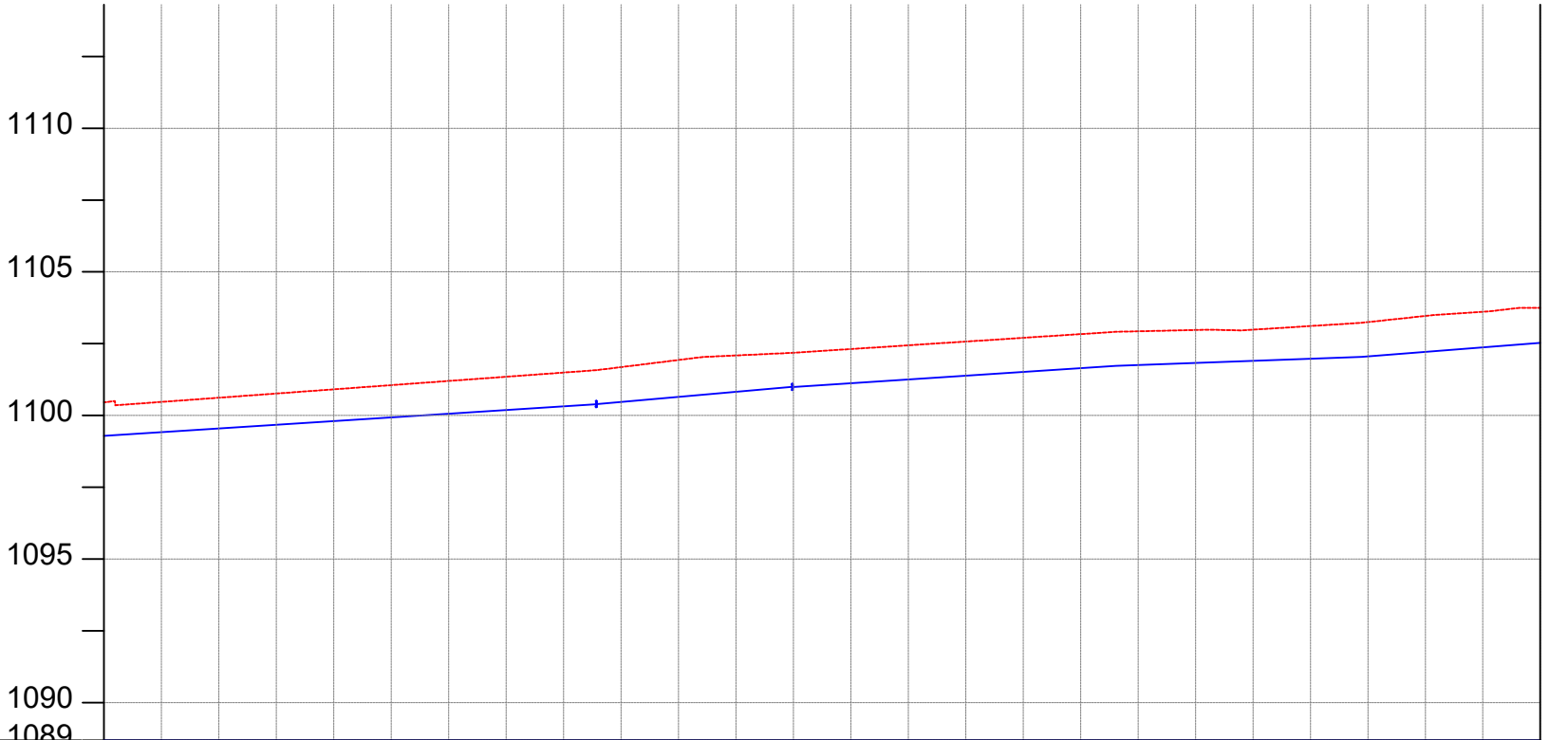
CONSULTANT:

Drawing Title:
KIBUKU TOWN
ETL_1 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ETL_1 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520	0+560	0+600	0+640	0+680	0+720	0+760	0+800	0+840	0+880	0+920	0+960	1+000												
GROUND LEVEL(m)	1100.456	1100.472	1100.618	1100.764	1100.910	1101.056	1101.202	1101.348	1101.494	1101.684	1101.932	1102.090	1102.183	1102.313	1102.443	1102.573	1102.703	1102.833	1102.931	1102.976	1102.987	1103.114	1103.250	1103.466	1103.611	1103.748
PIPE DETAILS	OD160, uPVC, PN10																									
PIPE INVERT(m)	1099.356	1099.372	1099.518	1099.664	1099.810	1099.956	1100.102	1100.248	1100.394	1100.584	1100.832	1100.990	1101.083	1101.213	1101.343	1101.473	1101.603	1101.733	1101.831	1101.876	1101.887	1102.014	1102.150	1102.366	1102.511	1102.648

AMENDMENTS

No	Date	Revision

NOTES

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4. For Node details, see Dwg. MBW/6.0.0
5. All valves, hydrants and washout locations are identified by marker post in positions.

LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- Node detail No. 01

REPUBLIC OF UGANDA



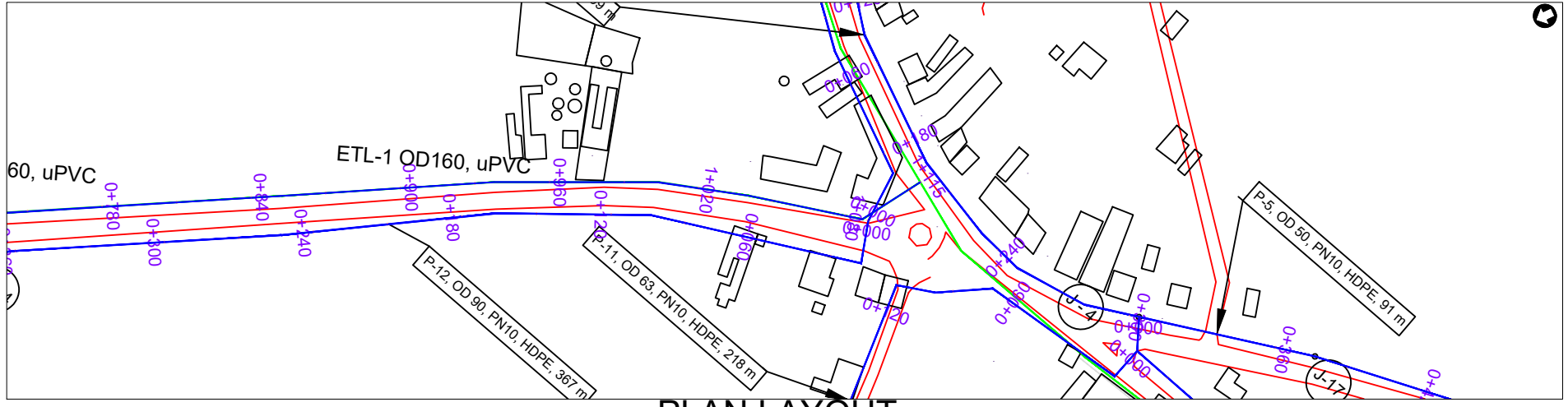
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

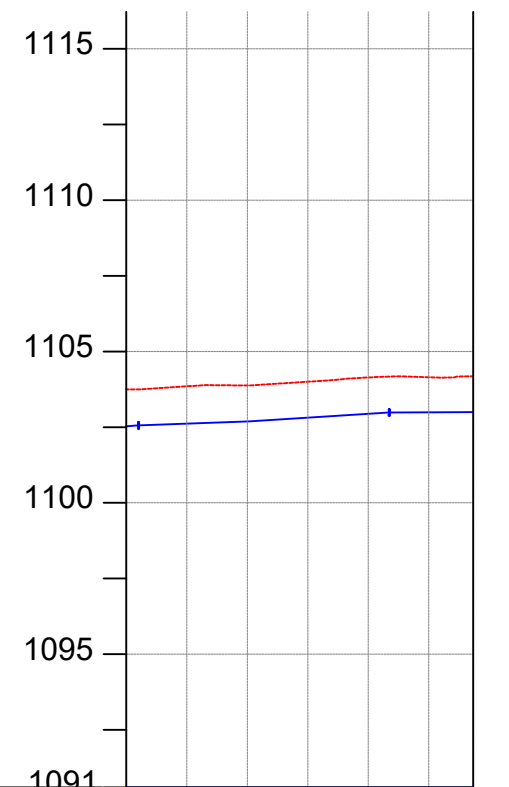
CONSULTANT:

Drawing Title:
KIBUKU TOWN
ETL_1 (CH 0+500.00 - 1+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ETL_1 (CH 0+500.00 - 1+000.00)	
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	1+000		1+040		1+080		1+115
GROUND LEVEL(m)	1103.748	1103.849	1103.877	1104.002	1104.142	1104.148	1104.183
PIPE DETAILS	← OD160, uPVC, PN10 →						
PIPE INVERT(m)	1102.648	1102.749	1102.777	1102.902	1103.042	1103.048	1103.083

AMENDMENTS		
No	Date	Revision

- NOTES**
- All dimensions are in metres unless stated otherwise.
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 - For Site location see Dwg. MB/W/0.0.0
 - For Node details, see Dwg. MB/W/6.0.0
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LEGEND

- Transmission Line
- New Distribution Line
- Road
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

Drawing Title:
KIBUKU TOWN
ETL_1 (CH 1+000.00 - 1+114.68)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ETL_1 (CH 1+000.00 - 1+114.68)	
Sheet No.: 3	Format: A3