

REPUBLIC OF UGANDA



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

INTEGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP)

**CONSTRUCTION OF BUTALEJA AND BUSOLWE WATER SUPPLY
AND SANITATION SYSTEM**

CONTRACT NO: MWE/WRKS/21-22/00005/2

SUBMITTED BY:



JULY 2022



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

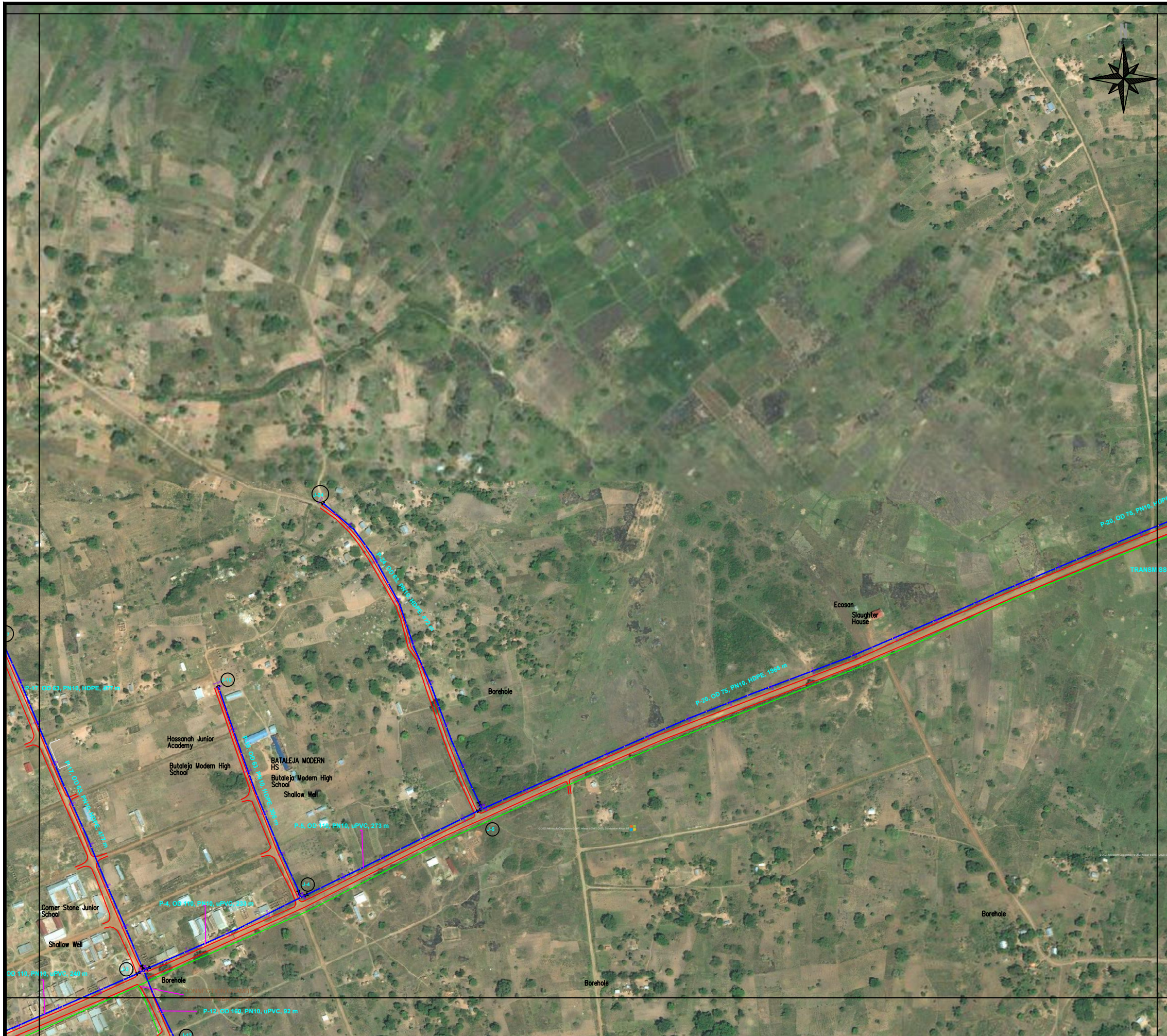
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:
BUTALEJA DISTRIBUTION NETWORK

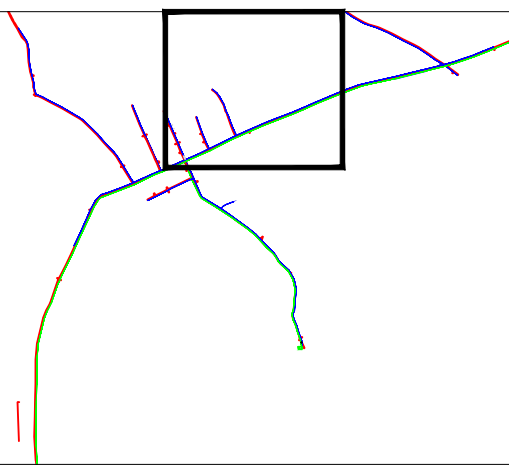
Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ 8-L-002	
Sheet No.: 1	Format: A3



LEGEND

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	Junctions
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	Fire Hydrants
	Disconnections
	Public stand Post
	Land Marks

KEY MAP



REPUBLIC OF UGANDA



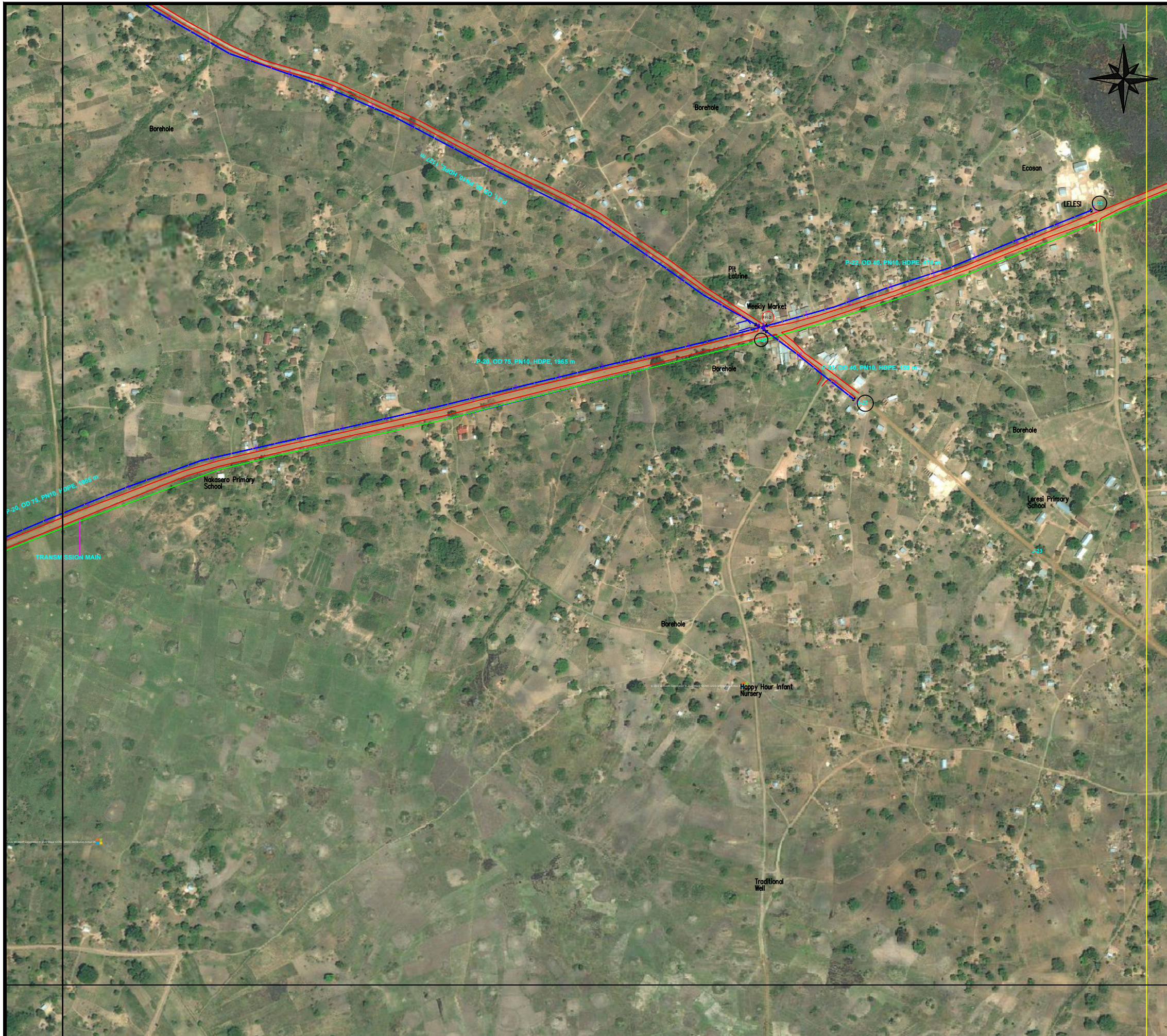
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
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CONSULTANT:

Drawing Title:
BUTALEJA DISTRIBUTION NETWORK

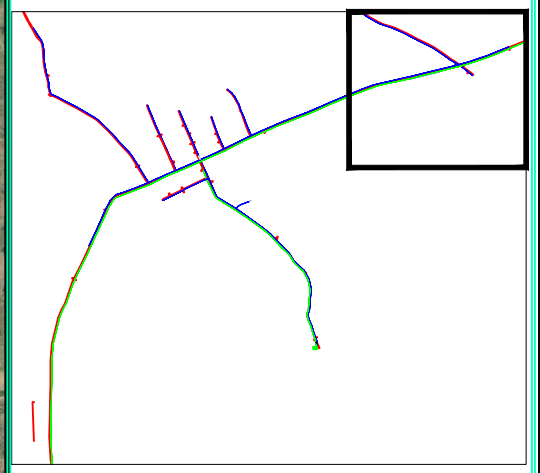
Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MB/A/ 8-L-002	
Sheet No.: 2	Format: A3



LEGEND

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	Wash Outs
	Fire Hydrants
	Disconnections
	Public stand Post
	Land Marks

KEY MAP



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MINISTRY OF WATER AND ENVIRONMENT

PROJECT:

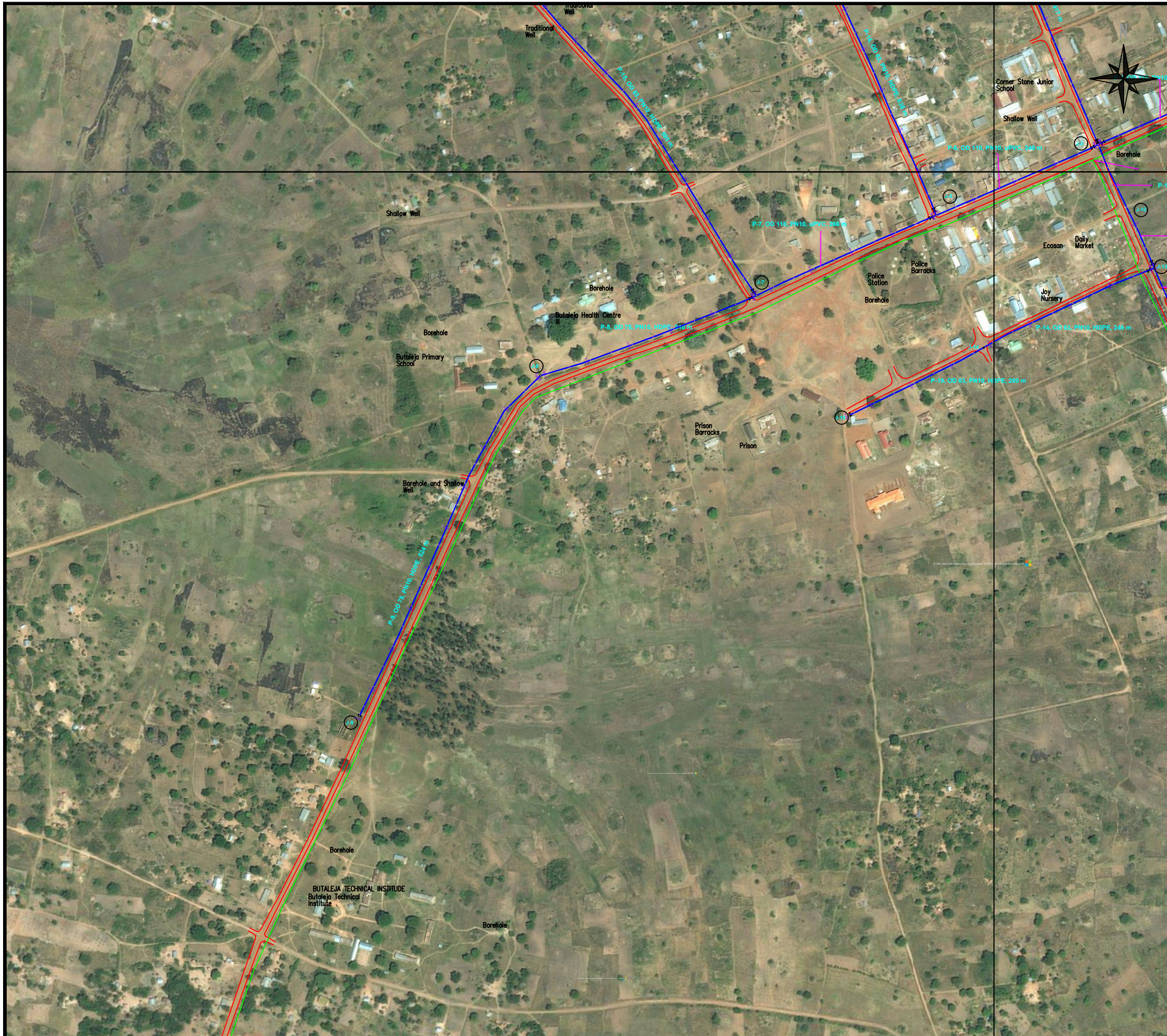
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:



Drawing Title: BUTALEJA DISTRIBUTION NETWORK

Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ 8-L-002	
Sheet No.: 3	Format: A3



LEGEND

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

KEY MAP

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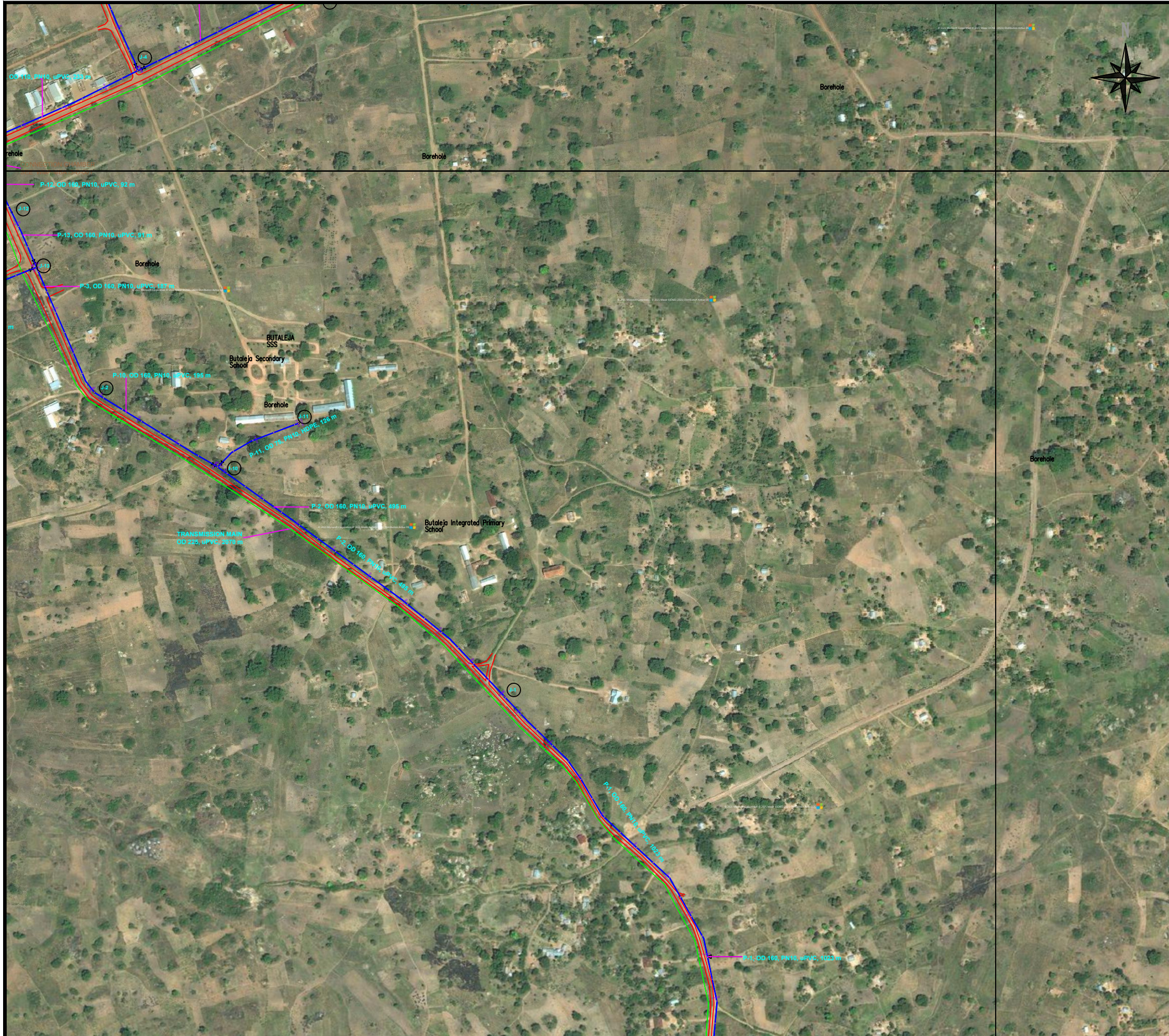
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:
BUTALEJA DISTRIBUTION NETWORK

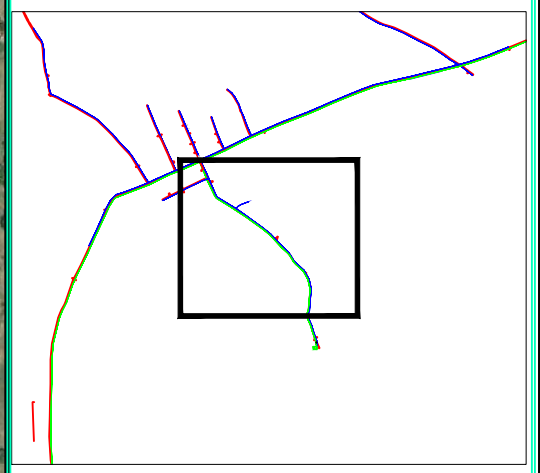
Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ 8-L-002	
Sheet No.: 4	Format: A3



LEGEND

LEGEND	
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	Roads
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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 BUTALEJA AND BUSOLWE

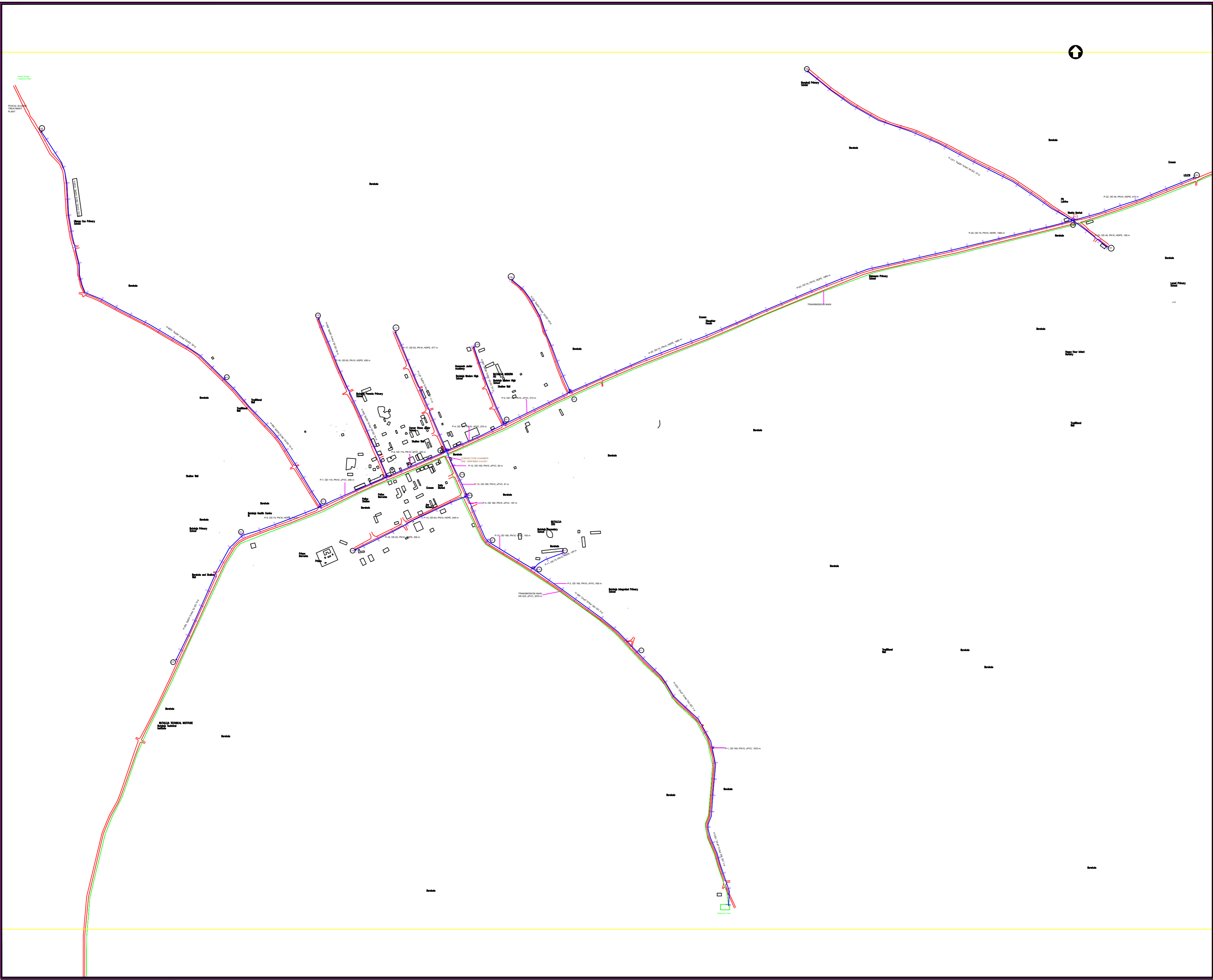
CONSULTANT:



Drawing Title:

BUTALEJA DISTRIBUTION NETWORK

Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ 8-L-002	
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
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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, BUTALEJA AND BUSOLWE

CONSULTANT:

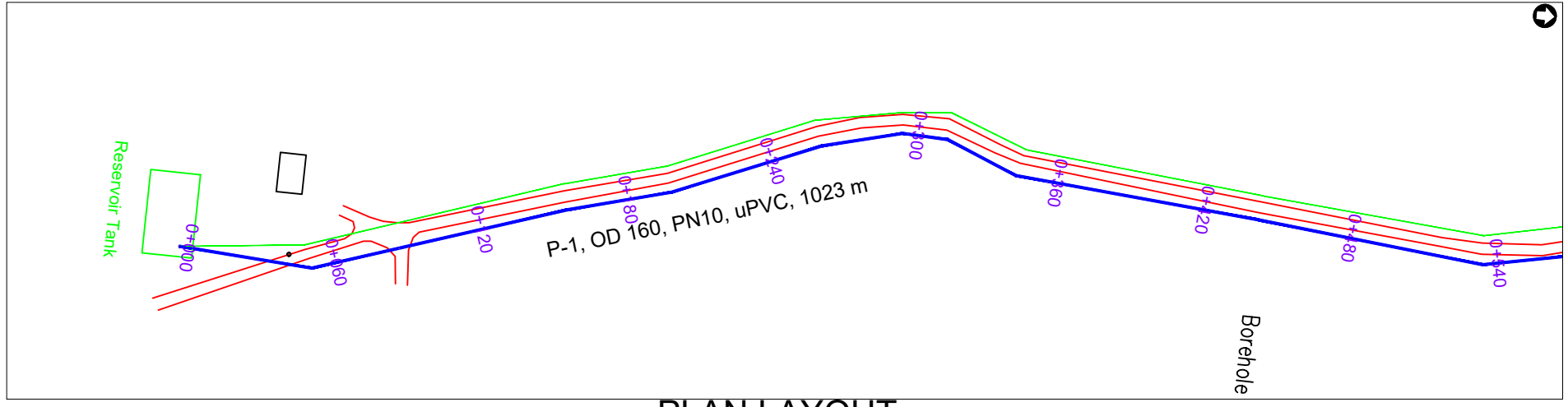
Saman Corp.

CHEJL ENGINEERING

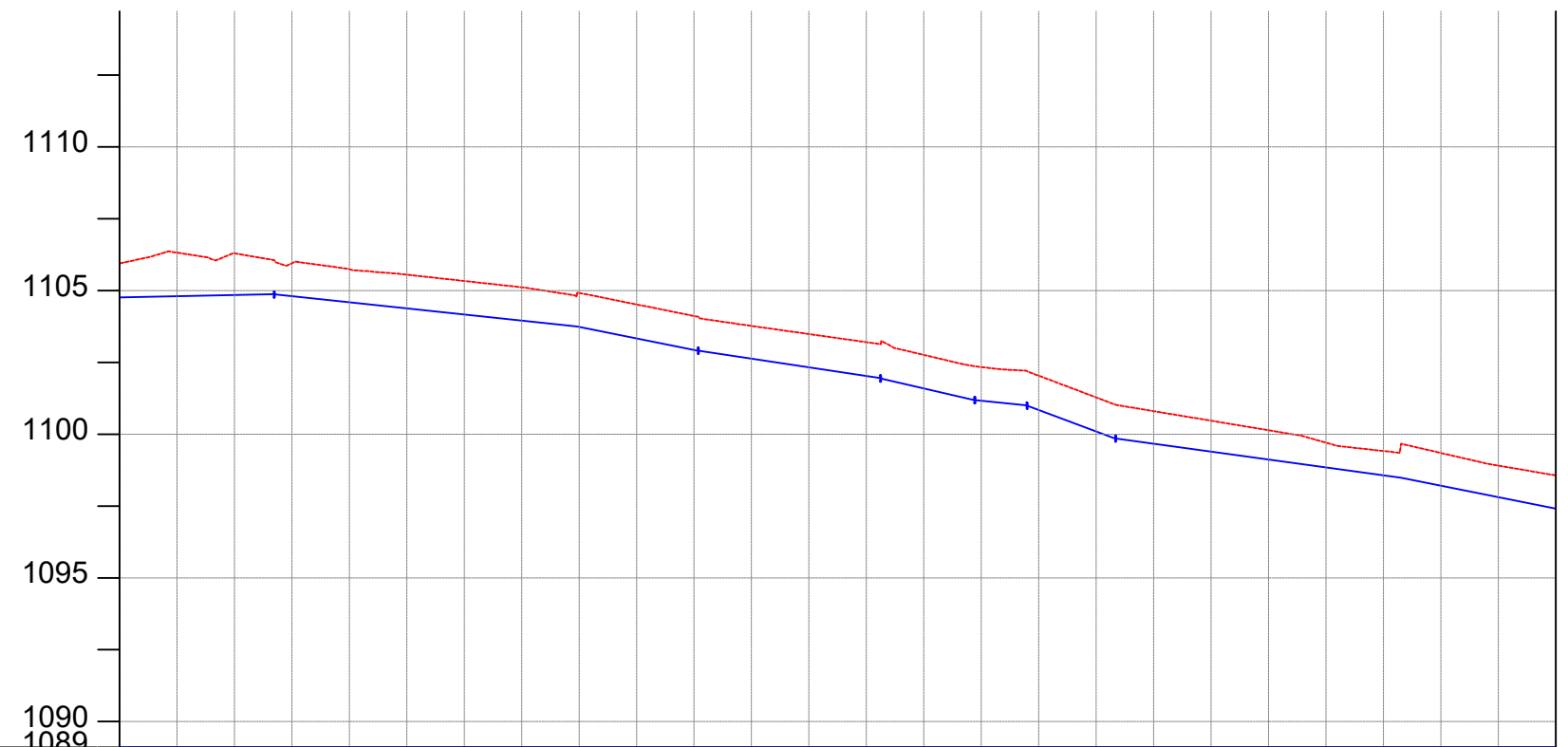
AWE Engineers

Drawing Title:
BUTALEJA 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/MBA/BUT/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)	1105.943	1106.319	1106.296	1105.950	1105.741	1105.552	1105.333	1105.114	1104.918	1104.517	1104.115	1103.769	1103.486	1103.203	1102.760	1102.337	1102.036	1101.280	1100.802	1100.470	1100.138	1099.706	1099.416	1099.348	1098.905	1098.567
PIPE DETAILS	P-1, OD 160, PN10, uPVC, 1023 m																									
PIPE INVERT(m)	1104.843	1105.219	1105.196	1104.850	1104.641	1104.452	1104.233	1104.014	1103.818	1103.417	1103.015	1102.669	1102.386	1102.103	1101.660	1101.237	1100.936	1100.180	1099.702	1099.370	1099.038	1098.606	1098.316	1098.248	1097.805	1097.467

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:

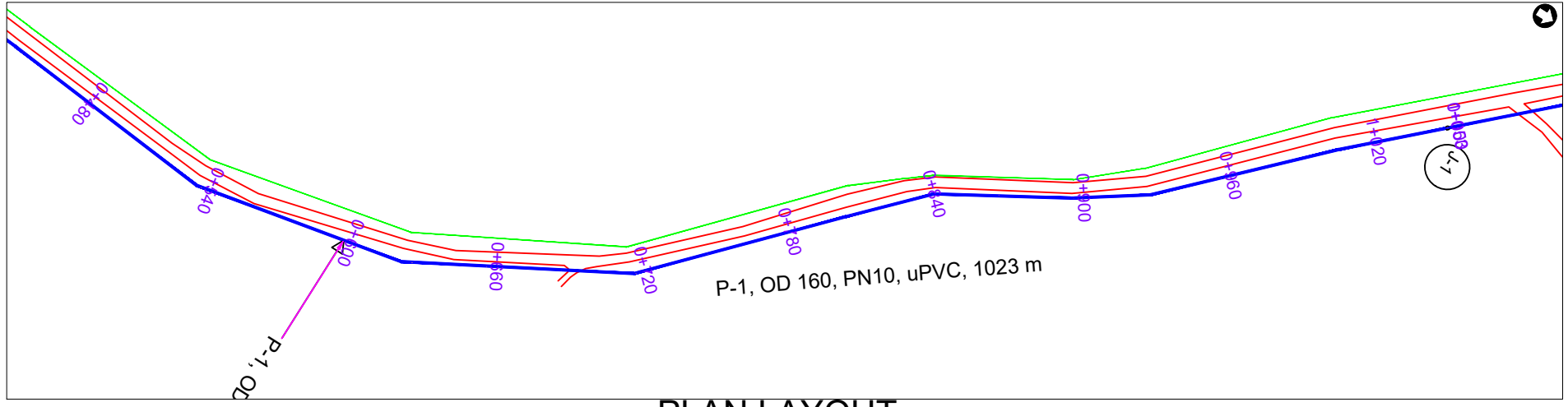
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU, TIRINYI, BUTALEJA AND BUSOLWE

CONSULTANT:

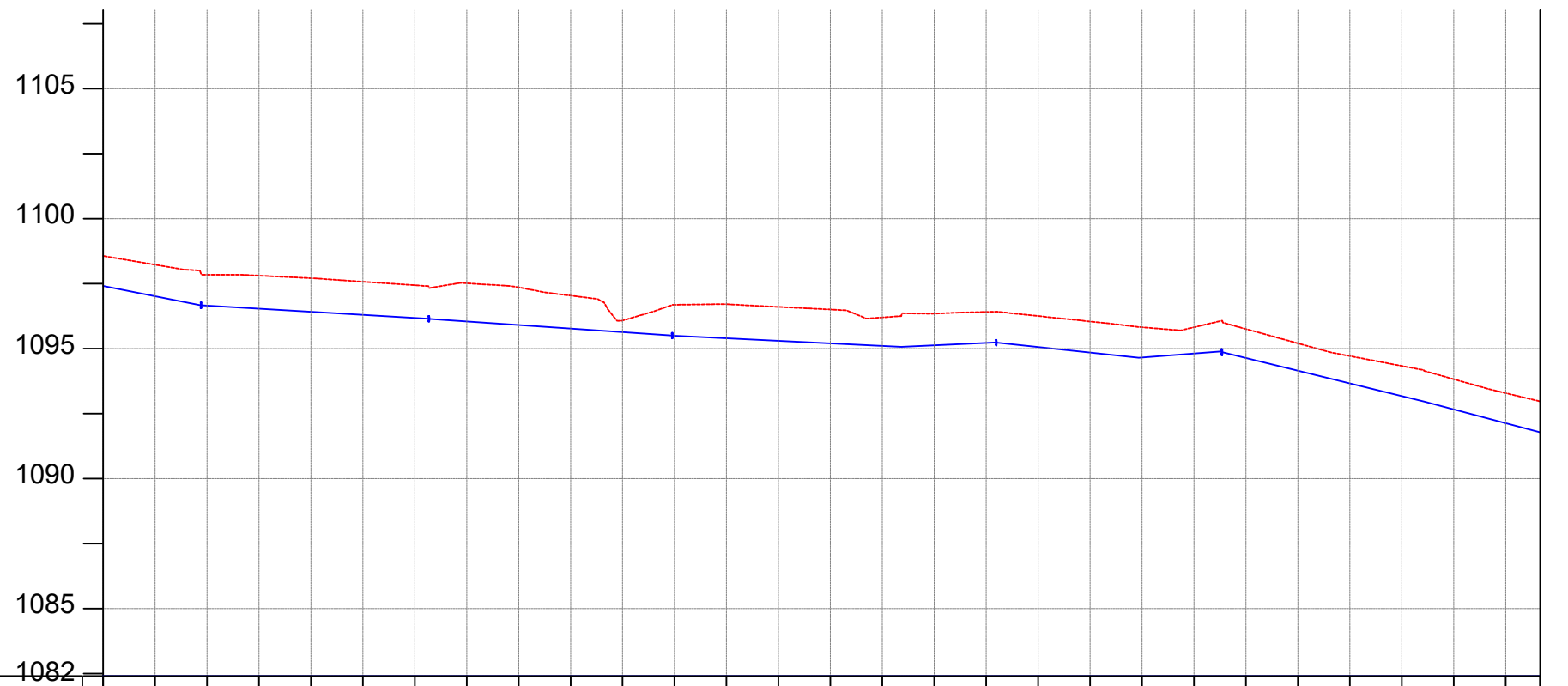
Drawing Title:

BUTALEJA TOWN
DL-01 (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-01 (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	1+040													
GROUND LEVEL(m)	1098.567	1098.228	1097.845	1097.811	1097.711	1097.576	1097.439	1097.514	1097.358	1097.040	1096.082	1096.687	1096.709	1096.607	1096.505	1096.201	1096.347	1096.413	1096.254	1096.045	1095.821	1095.823	1095.755	1095.205	1094.716	1094.334	1093.824	1093.288
PIPE DETAILS	P-1, OD 160, PN10, uPVC, 1023 m																											
PIPE INVERT(m)	1097.467	1097.128	1096.745	1096.711	1096.611	1096.476	1096.339	1096.414	1096.258	1095.940	1094.982	1095.587	1095.609	1095.507	1095.405	1095.101	1095.247	1095.313	1095.154	1094.945	1094.721	1094.723	1094.655	1094.105	1093.616	1093.234	1092.724	1092.188

AMENDMENTS		
No	Date	Revision

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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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MINISTRY OF WATER AND ENVIRONMENT

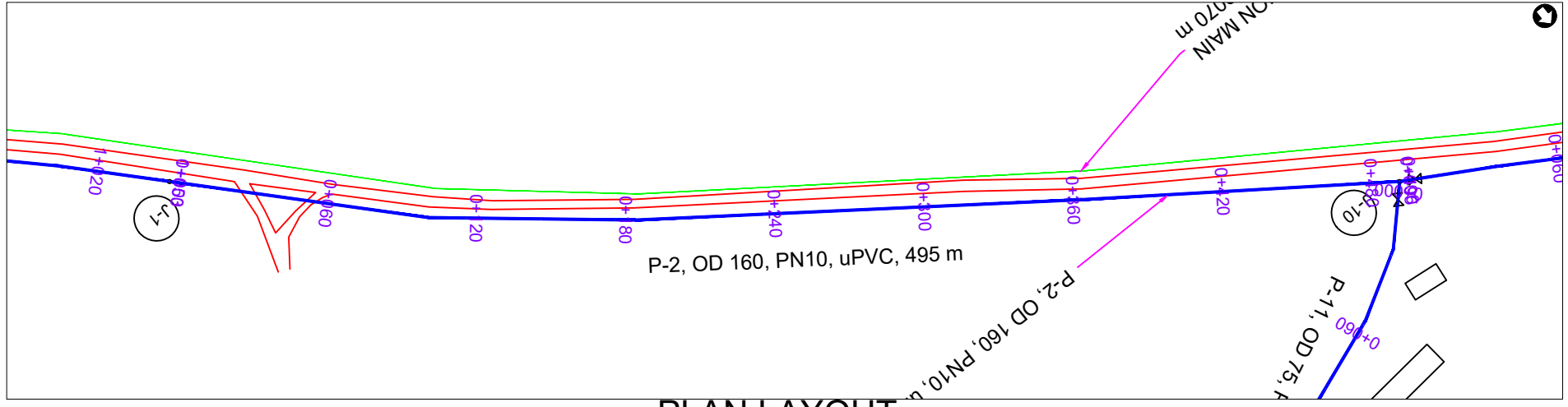
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU, TIRINYI, BUTALEJA AND BUSOLWE

CONSULTANT:

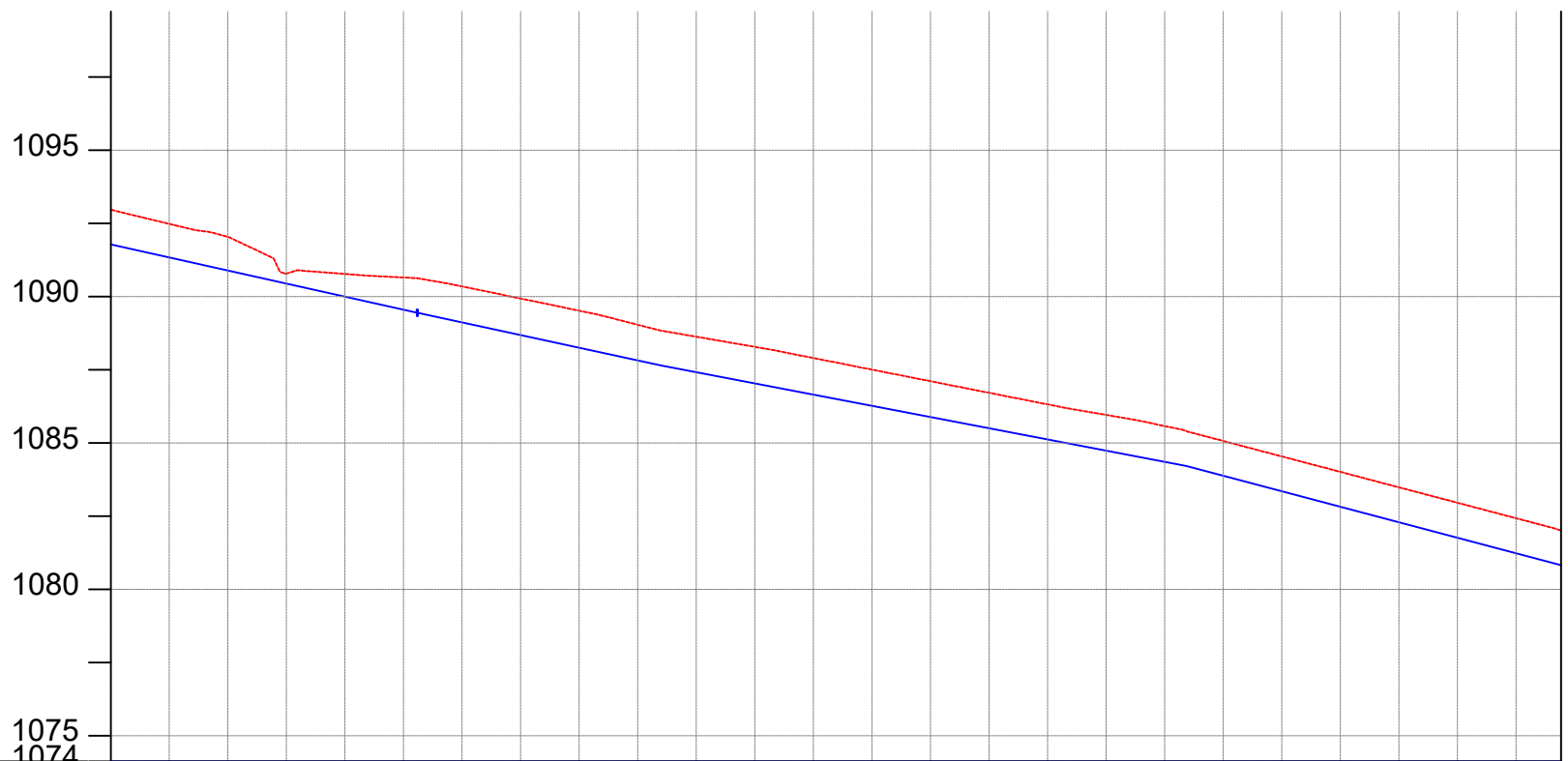
Drawing Title:

BUTALEJA TOWN
DL-01 (CH 0+500.00 - 1+053.28)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-01 (CH 0+500.00 - 1+053.28)
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+495		
GROUND LEVEL(m)	1092.967	1092.484	1092.042	1090.782	1090.774	1090.652	1090.348	1089.934	1089.520	1089.038	1088.630	1088.283	1087.902	1087.506	1087.110	1086.714	1086.319	1085.959	1085.577	1085.068	1084.541	1084.013	1083.486	1082.958	1082.430	1082.007		
PIPE DETAILS	P-2, OD 160, PN10, uPVC, 495 m																											
PIPE INVERT(m)	1091.867	1091.384	1090.942	1089.682	1089.674	1089.552	1089.248	1088.834	1088.420	1087.938	1087.530	1087.183	1086.802	1086.406	1086.010	1085.614	1085.219	1084.859	1084.477	1083.968	1083.441	1082.913	1082.386	1081.858	1081.330	1080.907		

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
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

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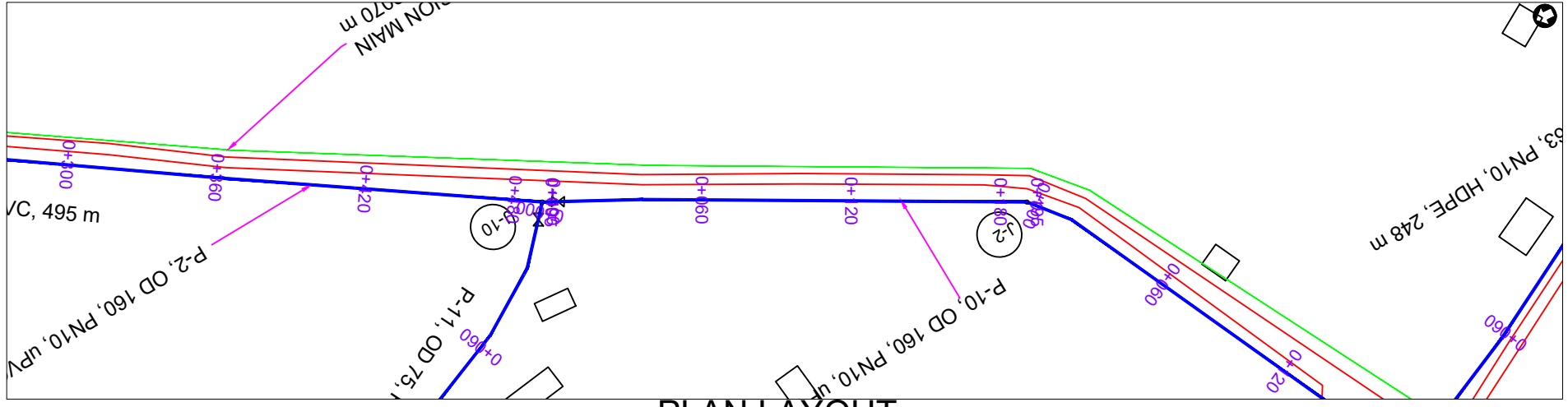
CONSULTANT:

Drawing Title:

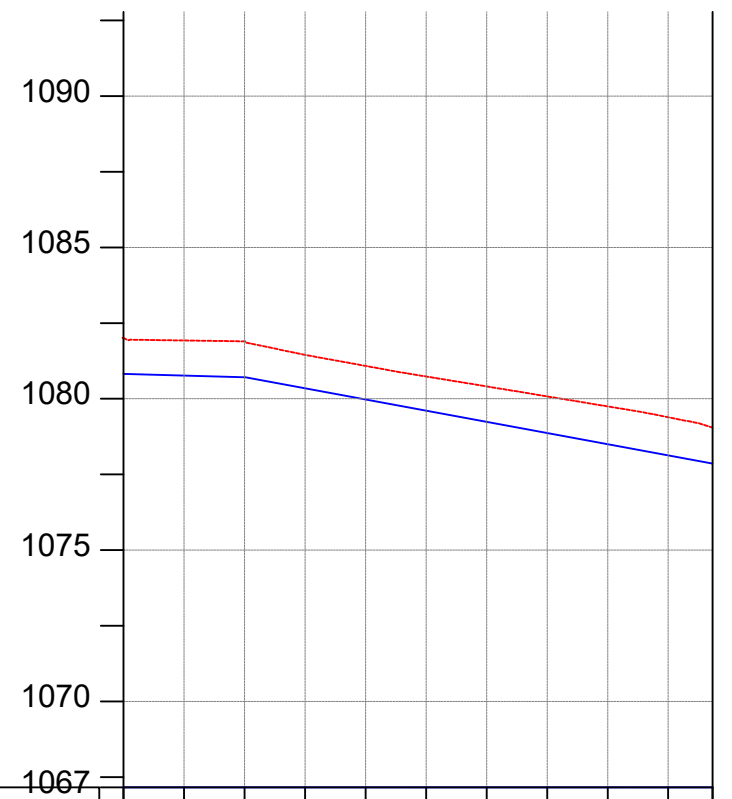
BUTALEJA TOWN

DL-02 (CH 0+000.00 - 0+495.41)

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-02 (CH 0+000.00 - 0+495.41)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+195
GROUND LEVEL(m)	1082.007	1081.926	1081.898	1081.450	1080.078	1079.047
PIPE DETAILS	P-10, OD 160, PN10, uPVC, 195 m					
PIPE INVERT(m)	1080.907	1080.826	1080.798	1080.350	1078.648	1077.947

P-10, OD 160, PN10, uPVC, 195 m

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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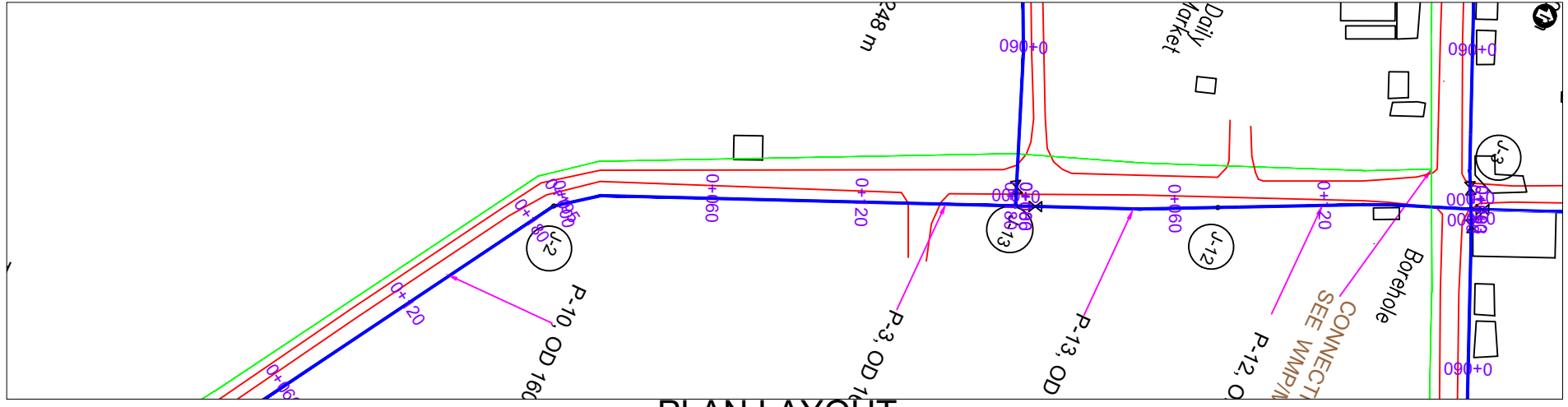
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
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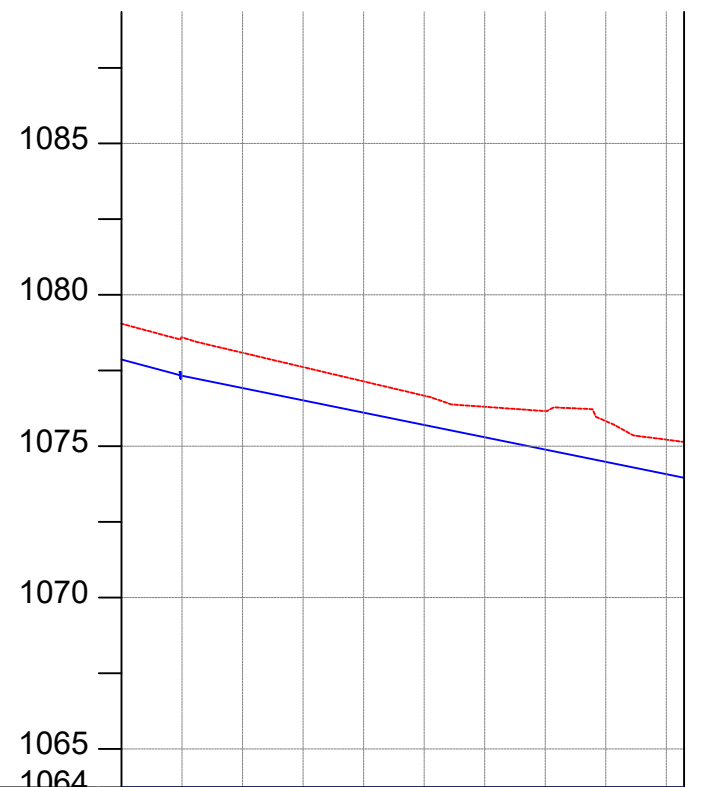
CONSULTANT:

Drawing Title:
BUTALEJA TOWN
DL-04 (CH 0+000.00 - 0+194.68)

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/DL-04 (CH 0+000.00 - 0+194.68)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+186
GROUND LEVEL(m)	1079.047	1078.598	1078.087	1077.615	1077.142	1076.670
PIPE DETAILS	P-3, OD 160, PN10, uPVC, 186 m					
PIPE INVERT(m)	1077.947	1077.498	1076.987	1076.515	1076.042	1075.570
						1075.203
						1075.061
						1074.730
						1074.118
						1074.042

AMENDMENTS		
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LEGEND

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

REPUBLIC OF UGANDA



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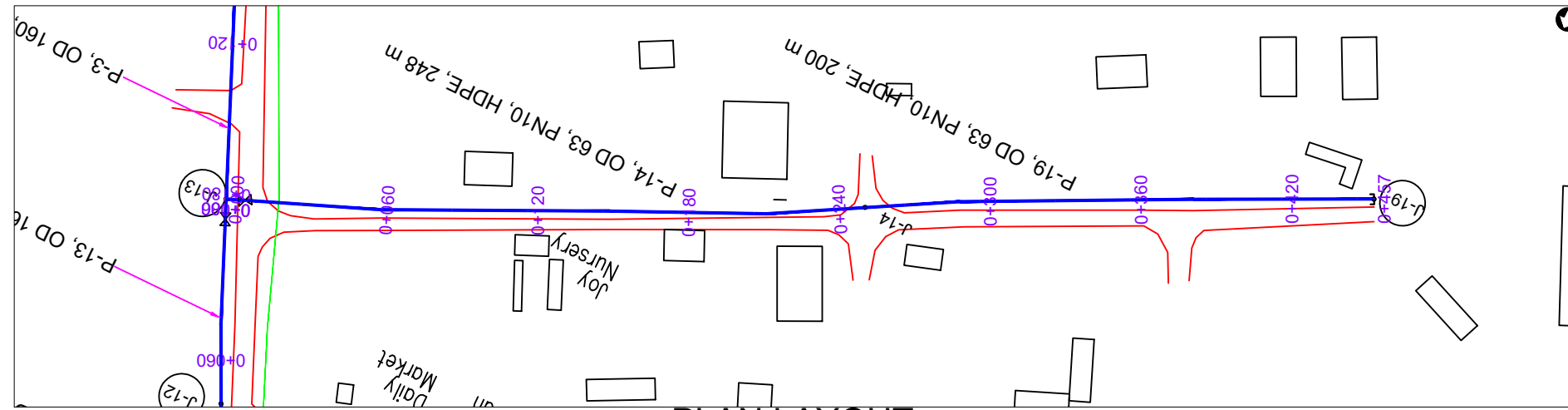
CONSULTANT:



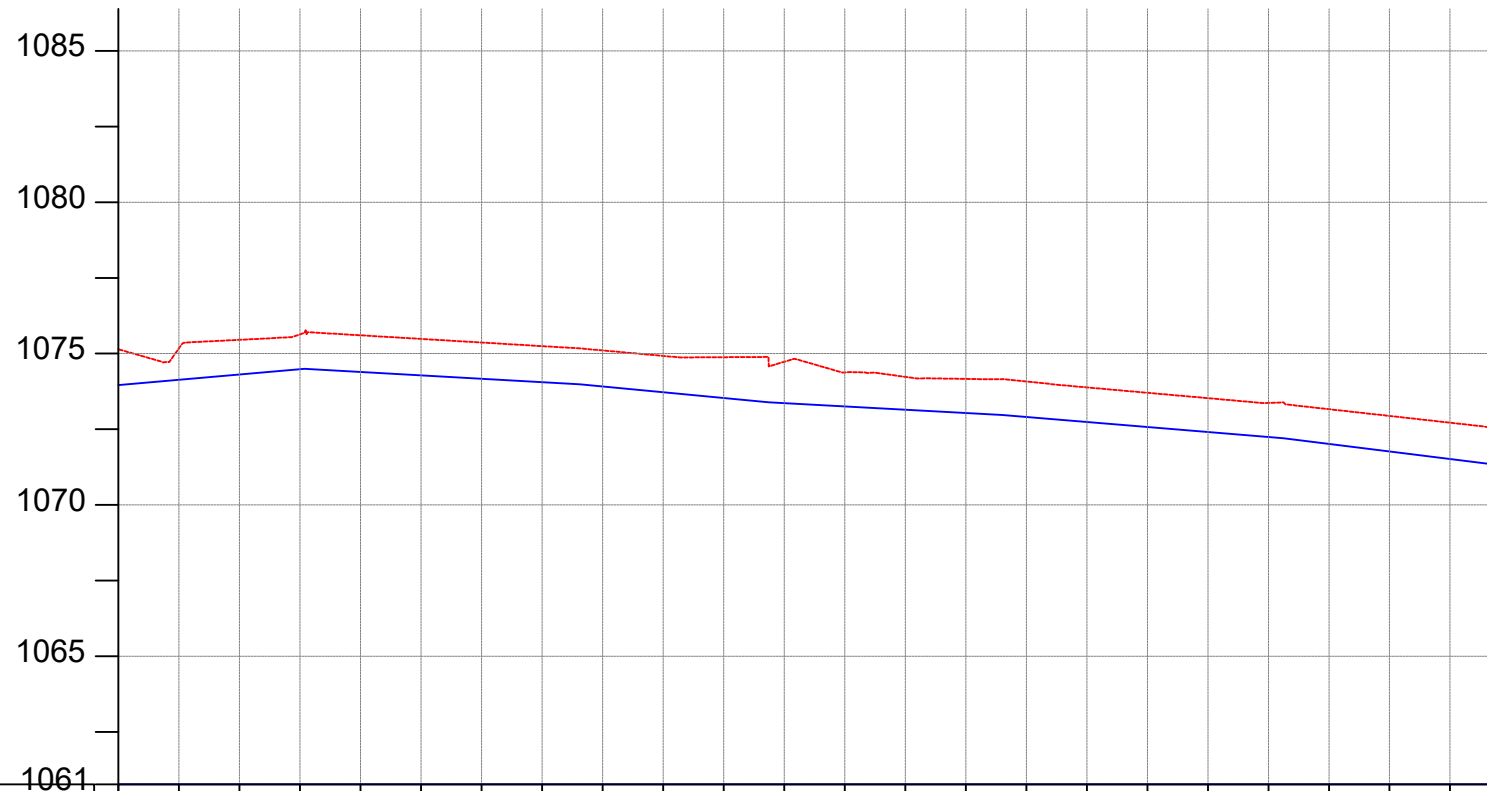


Drawing Title:
BUTALEJA TOWN
DL-05 (CH 0+000.00 - 0+185.90)

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-05 (CH 0+000.00 - 0+185.90)	
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+457											
GROUND LEVEL(m)	1075.142	1075.174	1075.455	1075.634	1075.604	1075.484	1075.365	1075.246	1075.104	1074.923	1074.880	1074.729	1074.376	1074.231	1074.163	1074.078	1073.883	1073.705	1073.527	1073.370	1073.163	1072.940	1072.717	1072.497
PIPE DETAILS	P-14, 19, OD 63, PN10, HDPE																							
PIPE INVERT(m)	1074.042	1074.074	1074.355	1074.534	1074.504	1074.384	1074.265	1074.146	1074.004	1073.823	1073.780	1073.629	1073.276	1073.131	1073.063	1072.978	1072.783	1072.605	1072.427	1072.270	1072.063	1071.840	1071.617	1071.397

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
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

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CONSULTANT:



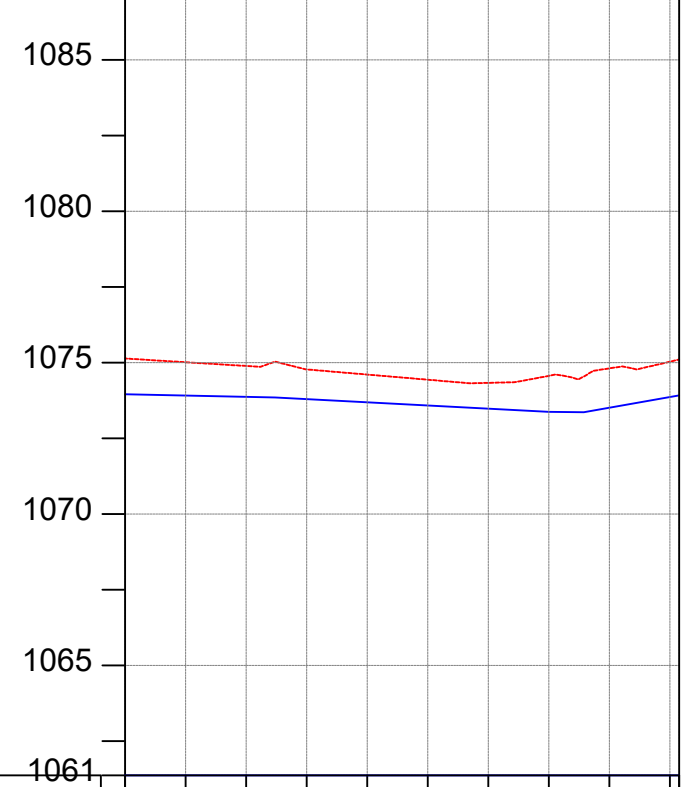
Drawing Title:

**BUTALEJA TOWN
DL-06 (CH 0+000.00 - 0+456.70)**

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-06 (CH 0+000.00 - 0+456.70)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+183
GROUND LEVEL(m)	1075.142	1075.013	1074.890	1074.776	1074.606	1074.436
PIPE DETAILS	P-12,13, OD 160, PN10, uPVC					
PIPE INVERT(m)	1074.042	1073.913	1073.790	1073.676	1073.506	1073.336
	1073.232	1073.463	1073.712	1074.064	1074.064	1074.064

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

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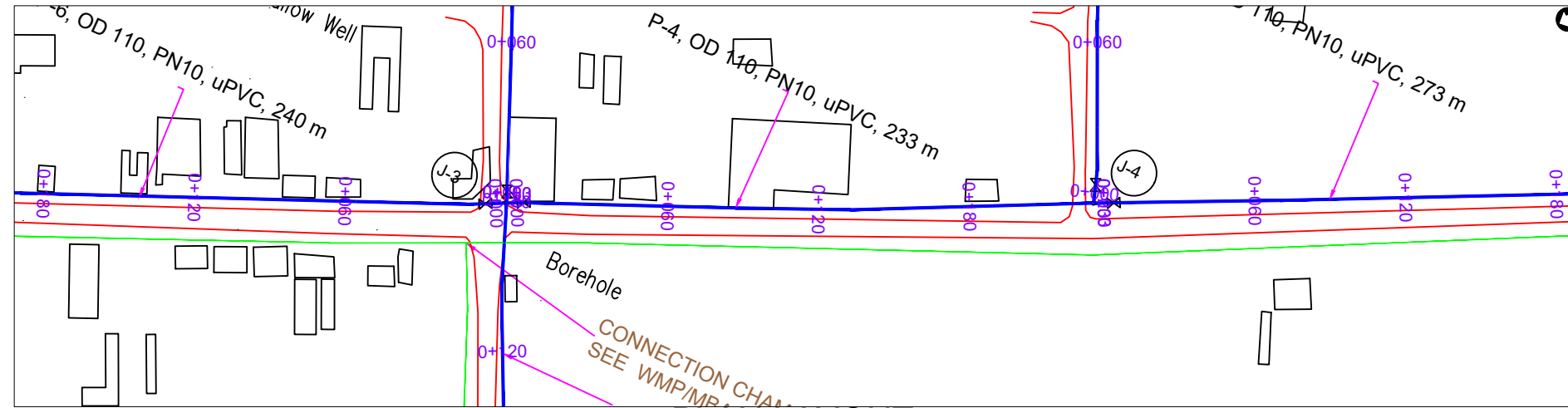
CONSULTANT:

Drawing Title:

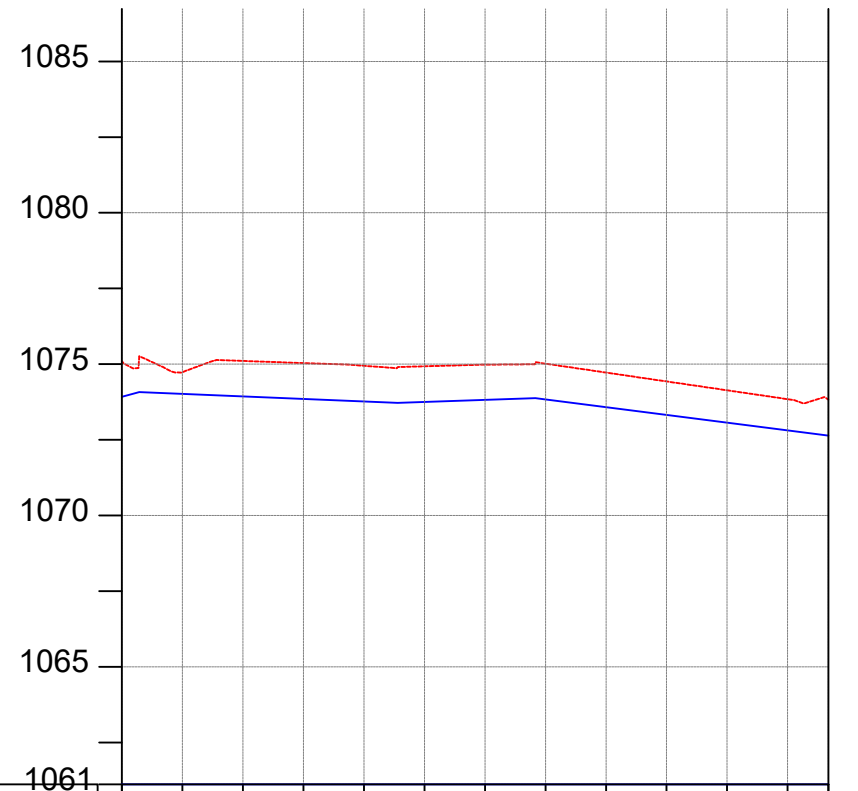
BUTALEJA TOWN

DL-07 (CH 0+000.00 - 0+183.06)

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-07 (CH 0+000.00 - 0+183.06)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200	0+233					
GROUND LEVEL(m)	1075.104	1074.726	1075.106	1075.036	1074.946	1074.929	1074.983	1075.015	1074.723	1074.430	1074.137	1073.844
PIPE DETAILS	P-4, OD 110, PN10, uPVC, 233 m											
PIPE INVERT(m)	1074.004	1073.626	1074.006	1073.936	1073.846	1073.829	1073.883	1073.915	1073.623	1073.330	1073.037	1072.744

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, BUTALEJA AND BUSOLWE

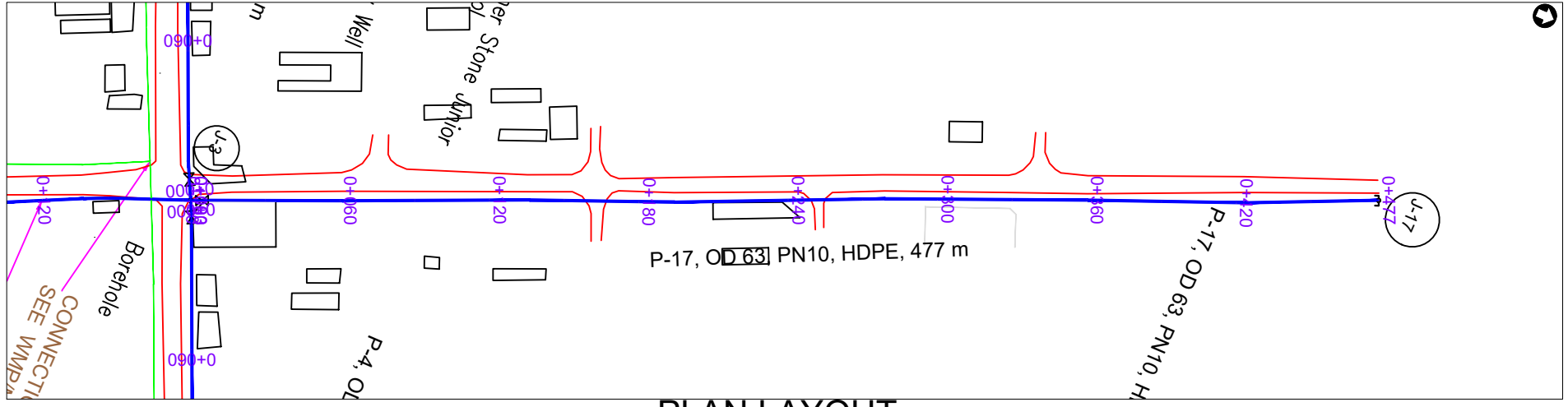
CONSULTANT:



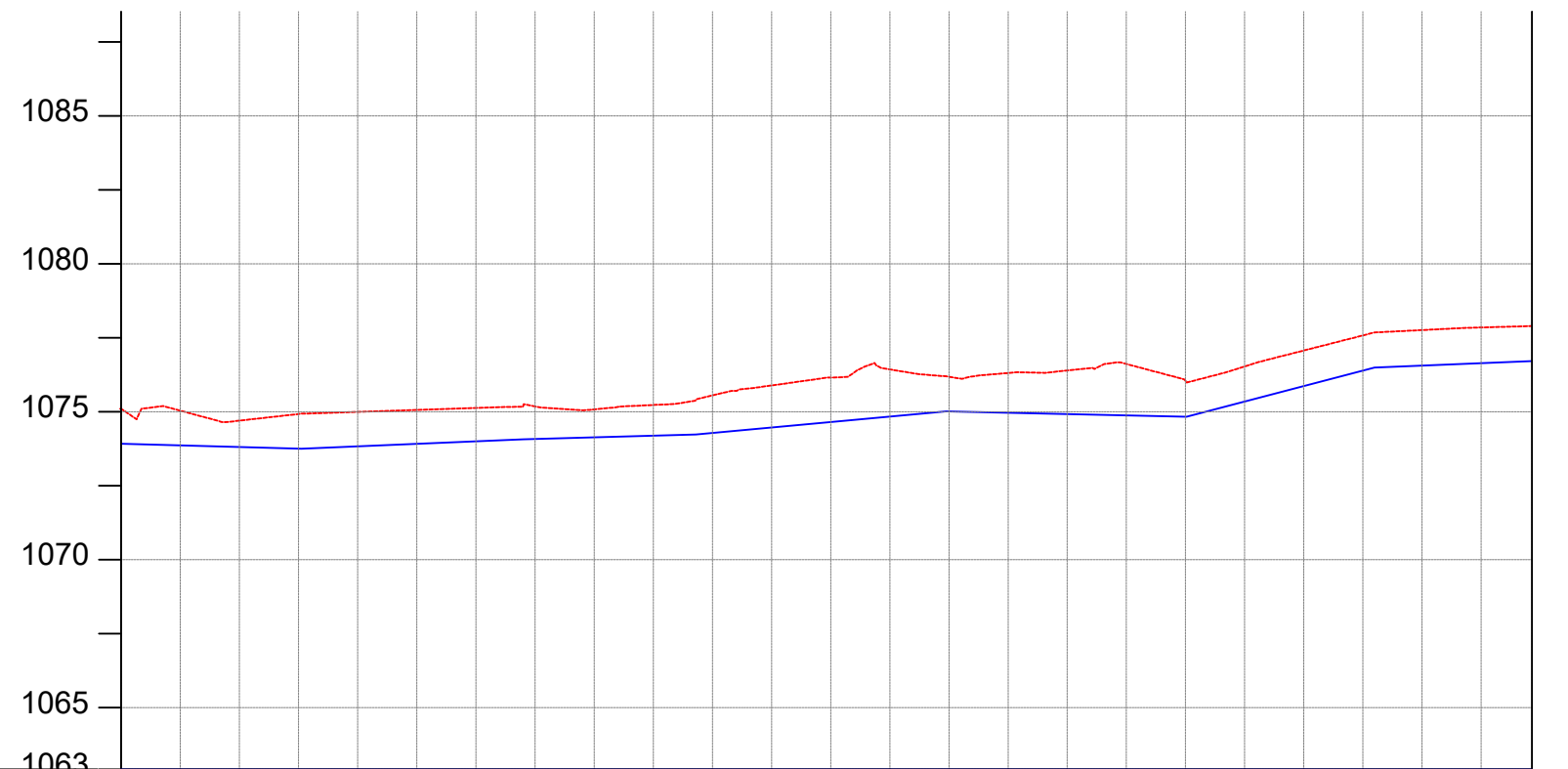
Drawing Title:

**BUTALEJA TOWN
DL-08 (CH 0+000.00 - 0+233.50)**

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-08 (CH 0+000.00 - 0+233.50)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
0+000	1075.104	P-17, OD 63, PN10, HDPE, 477 m	1074.004
0+040	1075.039		1073.939
0+080	1074.700		1073.600
	1074.926		1073.826
0+120	1074.996		1073.896
	1075.063		1073.963
0+160	1075.130		1074.030
	1075.182		1074.082
0+200	1075.080		1073.980
	1075.230		1074.130
0+240	1075.554		1074.454
	1075.891		1074.791
0+280	1076.158		1075.058
	1076.434		1075.334
0+320	1076.183		1075.083
	1076.311		1075.211
0+360	1076.396		1075.296
	1076.616	1075.516	
0+400	1076.049	1074.949	
	1076.532	1075.432	
0+440	1077.072	1075.972	
	1077.582	1076.482	
0+477	1077.763	1076.663	
	1077.851	1076.751	
	1077.899	1076.799	

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

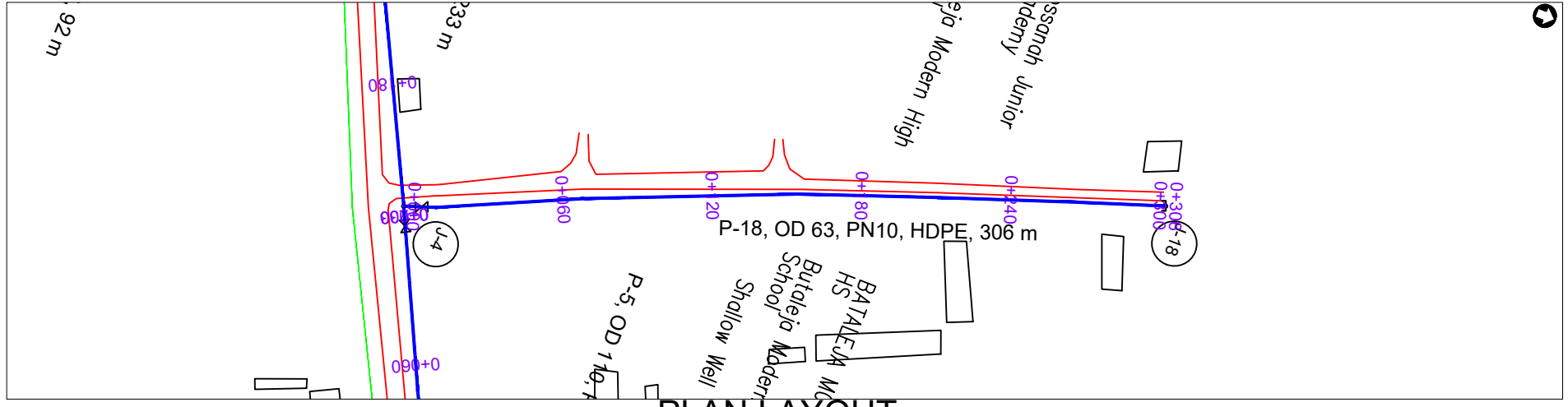
MINISTRY OF WATER AND ENVIRONMENT

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

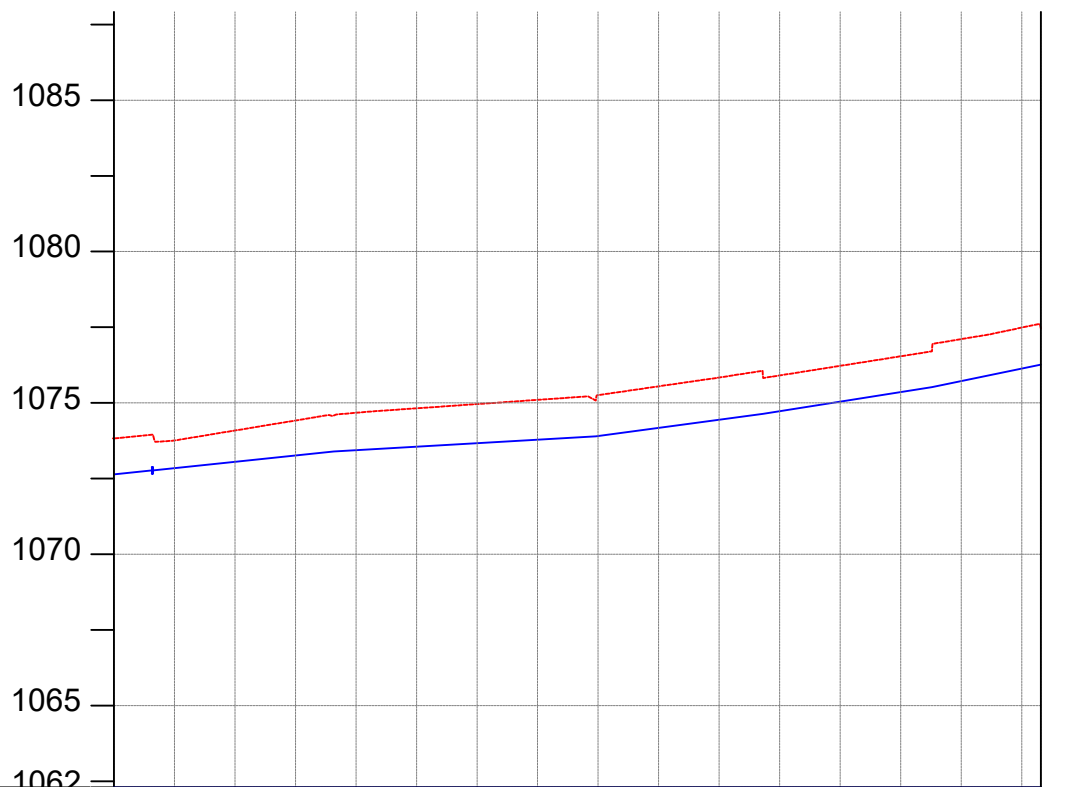
CONSULTANT:

Drawing Title:
BUTALEJA TOWN
DL-10 (CH 0+000.00 - 0+477.21)

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-10 (CH 0+000.00 - 0+477.21)	
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+306.29							
GROUND LEVEL(m)	1073.825	1073.759	1074.089	1074.419	1074.674	1074.822	1074.962	1075.101	1075.257	1075.548	1075.839	1075.909	1076.225	1076.541	1077.108	1077.489
PIPE DETAILS	P-18, OD 63, PN10, HDPE, 306 m															
PIPE INVERT(m)	1072.725	1072.659	1072.989	1073.319	1073.574	1073.722	1073.862	1074.001	1074.157	1074.448	1074.739	1074.809	1075.125	1075.441	1076.008	1076.389

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

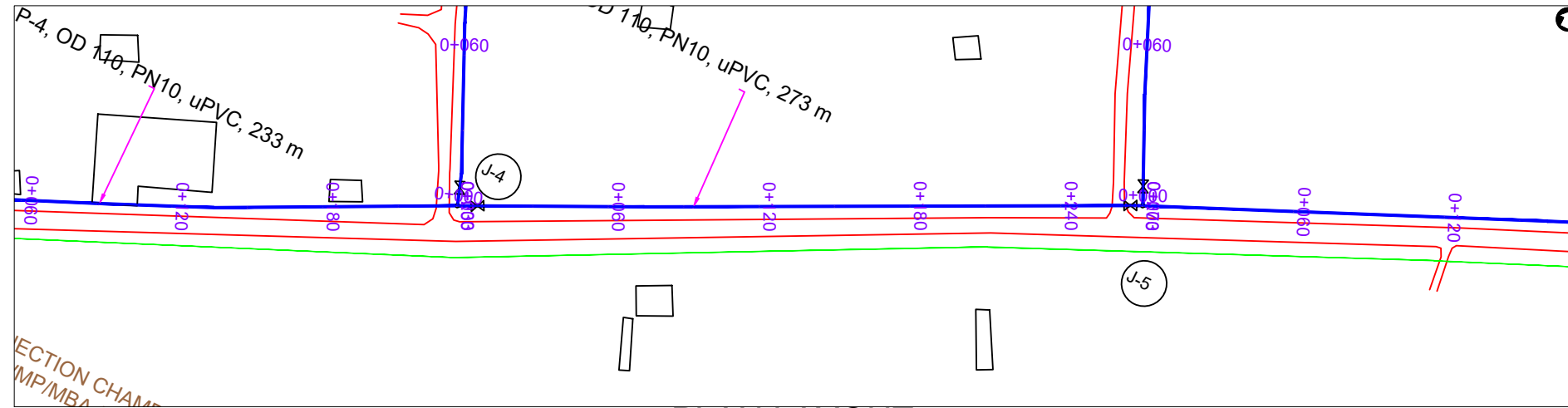
MINISTRY OF WATER AND ENVIRONMENT

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

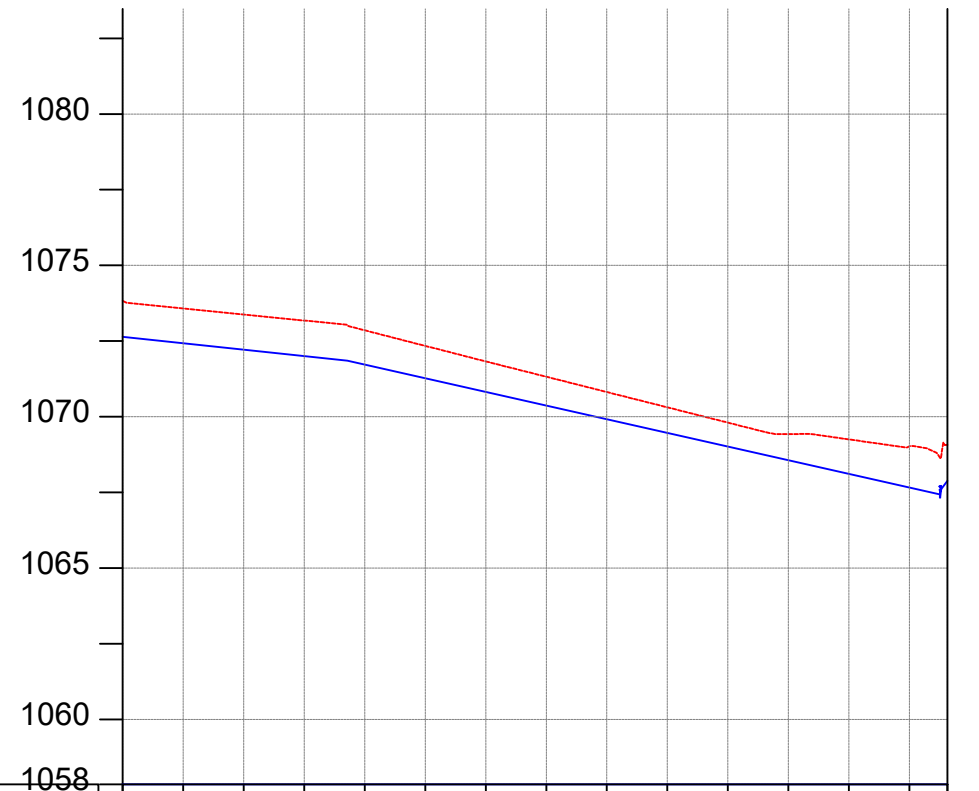
CONSULTANT:

Drawing Title:
BUTALEJA TOWN
DL-11 (CH 0+000.00 - 0+306.29)

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+306.29)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+273
GROUND LEVEL(m)	1073.825	1073.578	1073.378	1073.179	1072.855	1072.341	1071.828	1071.322
PIPE DETAILS	P-5, OD 110, PN10, uPVC, 273 m							
PIPE INVERT(m)	1072.725	1072.478	1072.278	1072.079	1071.755	1071.241	1070.728	1070.222
	1069.717	1069.212	1068.706	1068.329	1068.152	1067.923	1067.968	1067.968

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, BUTALEJA AND BUSOLWE

CONSULTANT:

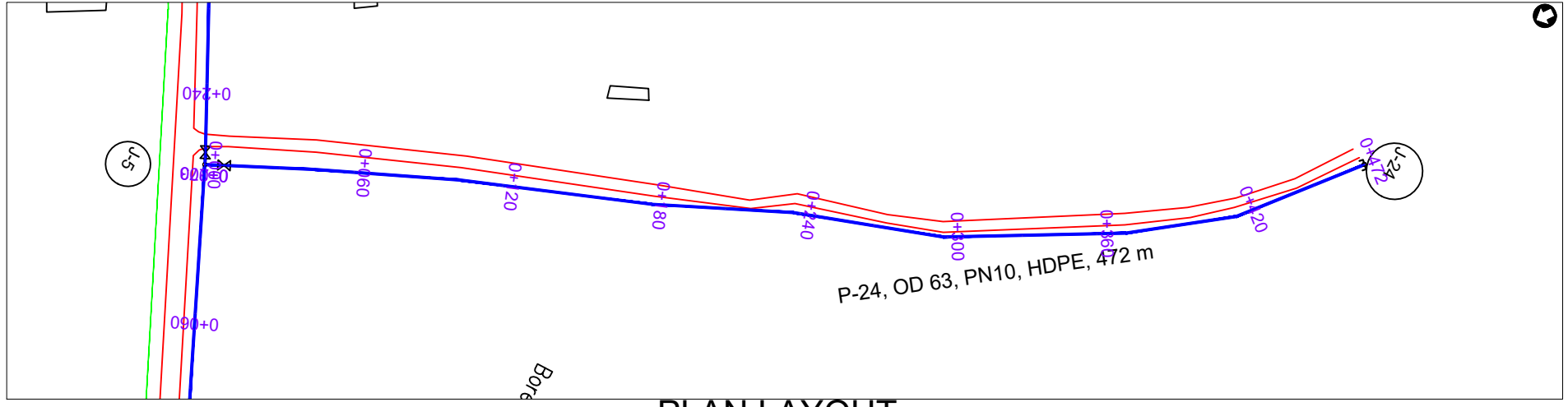


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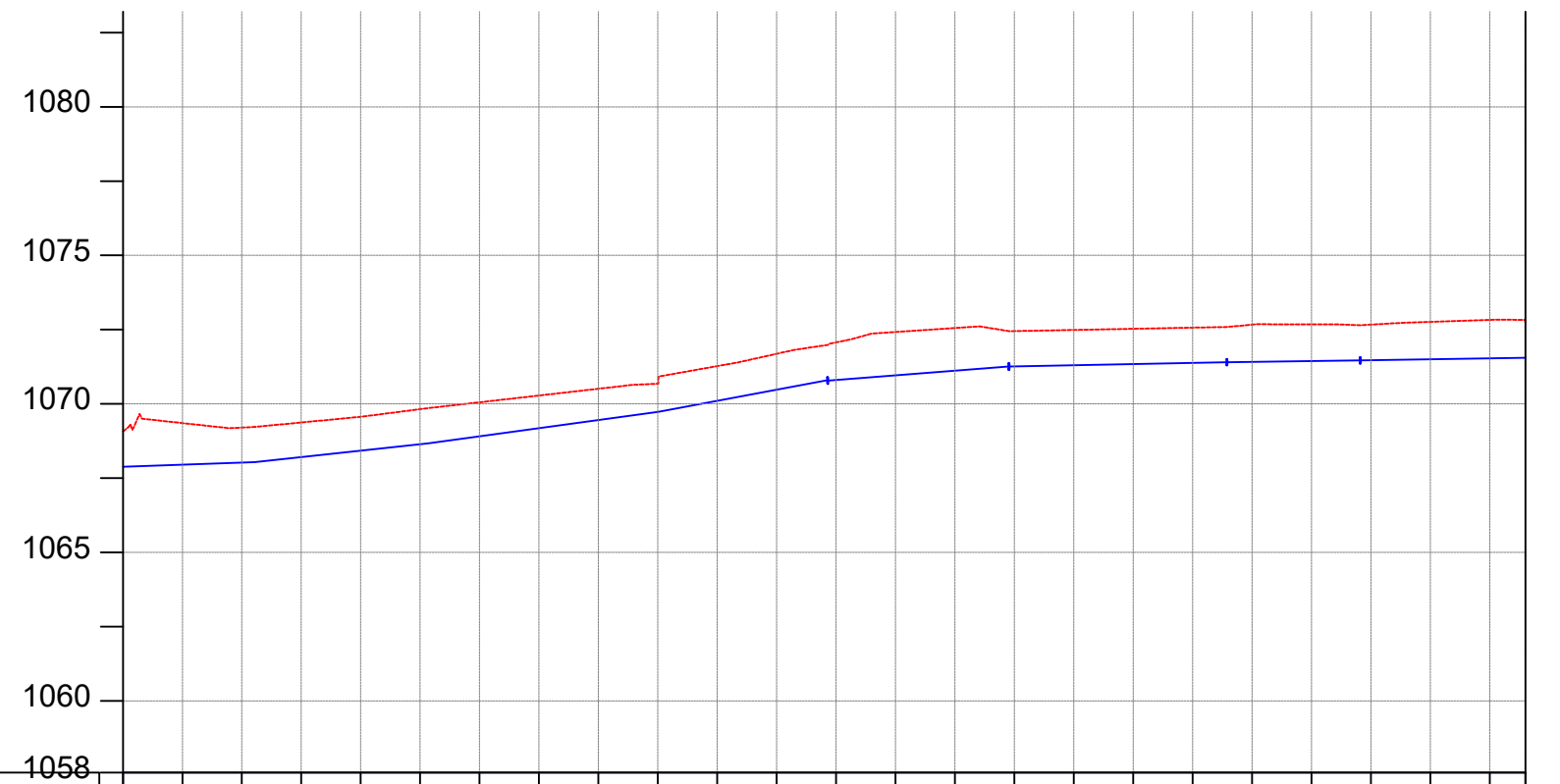
BUTALEJA TOWN

DL-12 (CH 0+000.00 - 0+272.56)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-12 (CH 0+000.00 - 0+272.56)
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+472	
GROUND LEVEL(m)	1069.068	1069.354	1069.203	1069.375	1069.566	1069.823	1070.054	1070.282	1070.509	1070.679	1071.272	1071.687	1072.071	1072.423	1072.556	1072.450	1072.489	1072.528	1072.566	1072.669	1072.678	1072.669	1072.760	1072.828	1072.739	
PIPE DETAILS	P-24, OD 63, PN10, HDPE, 472 m																									
PIPE INVERT(m)	1067.968	1068.254	1068.103	1068.275	1068.466	1068.723	1068.954	1069.182	1069.409	1069.579	1070.172	1070.587	1070.971	1071.323	1071.456	1071.350	1071.389	1071.428	1071.466	1071.569	1071.578	1071.569	1071.660	1071.728	1071.639	

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, BUTALEJA AND BUSOLWE

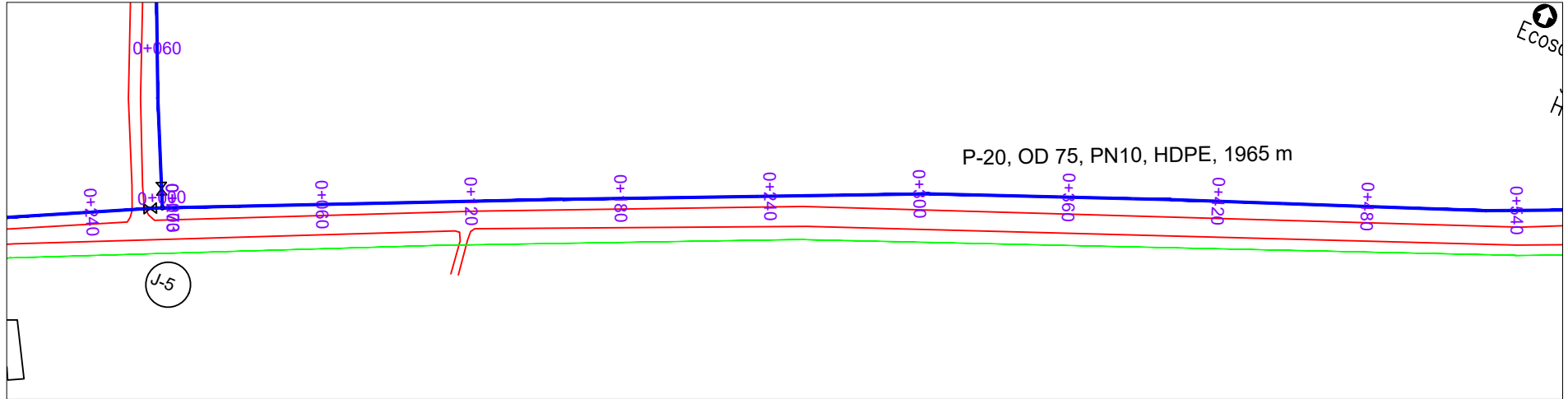
CONSULTANT:



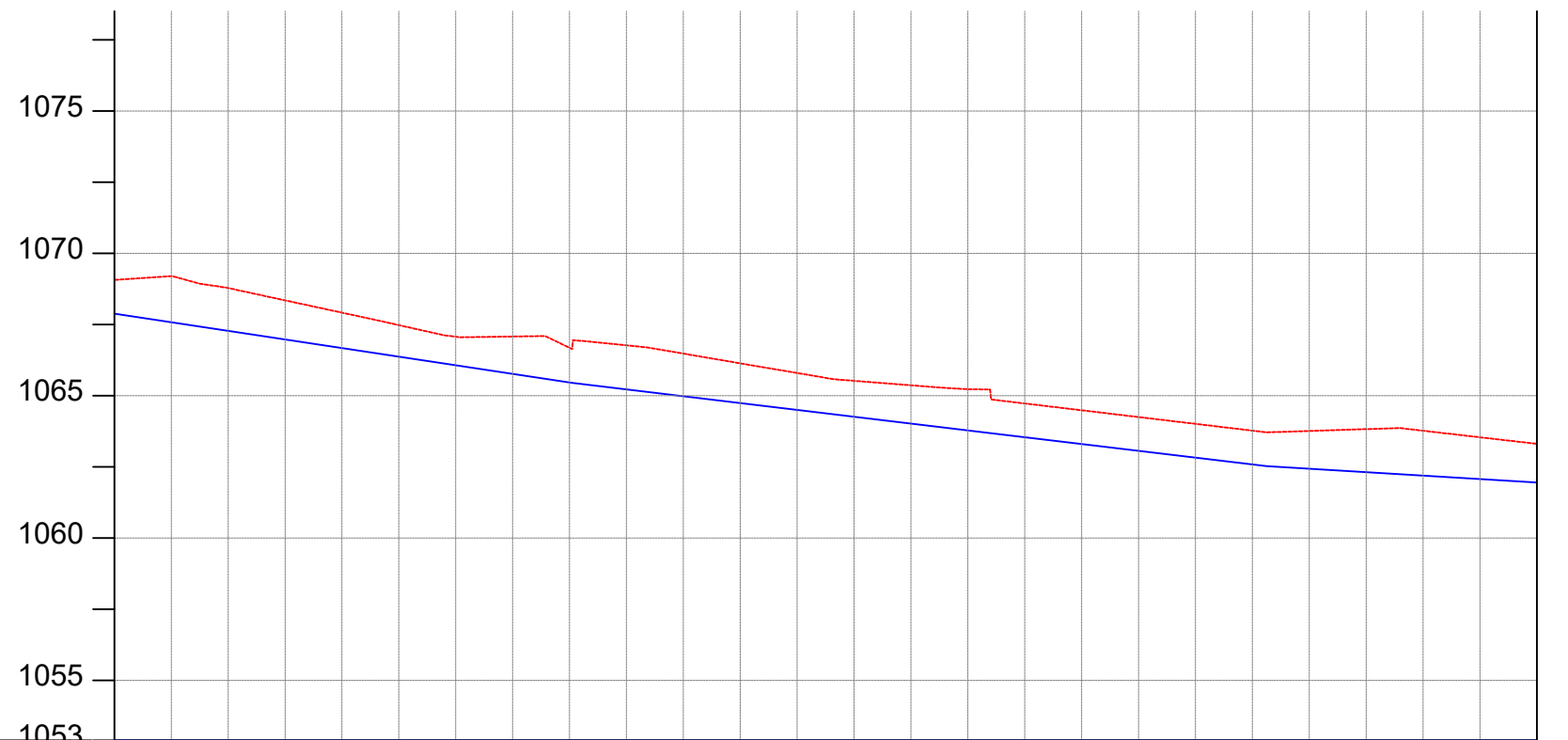
Drawing Title:

**BUTALEJA TOWN
DL-13 (CH 0+000.00 - 0+472.03)**

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-13 (CH 0+000.00 - 0+472.03)	
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)	1069.068	1069.198	1068.781	1068.349	1067.916	1067.478	1067.069	1067.078	1066.682	1066.770	1066.478	1066.137	1065.796	1065.522	1065.365	1065.226	1064.726	1064.487	1064.249	1064.010	1063.772	1063.760	1063.825	1063.768	1063.539	1063.309		
PIPE DETAILS	P-20, OD 75, PN10, HDPE, 1965 m																											
PIPE INVERT(m)	1067.968	1068.098	1067.681	1067.249	1066.816	1066.378	1065.969	1065.978	1065.582	1065.670	1065.378	1065.037	1064.696	1064.422	1064.265	1064.126	1063.626	1063.387	1063.149	1062.910	1062.672	1062.660	1062.725	1062.668	1062.439	1062.209		

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

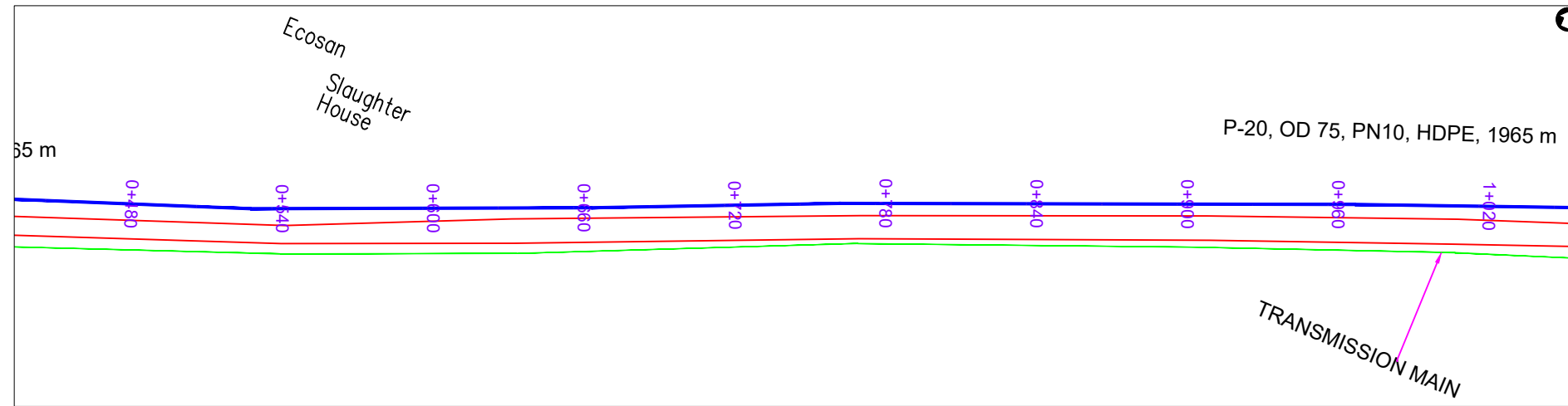
MINISTRY OF WATER AND ENVIRONMENT

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

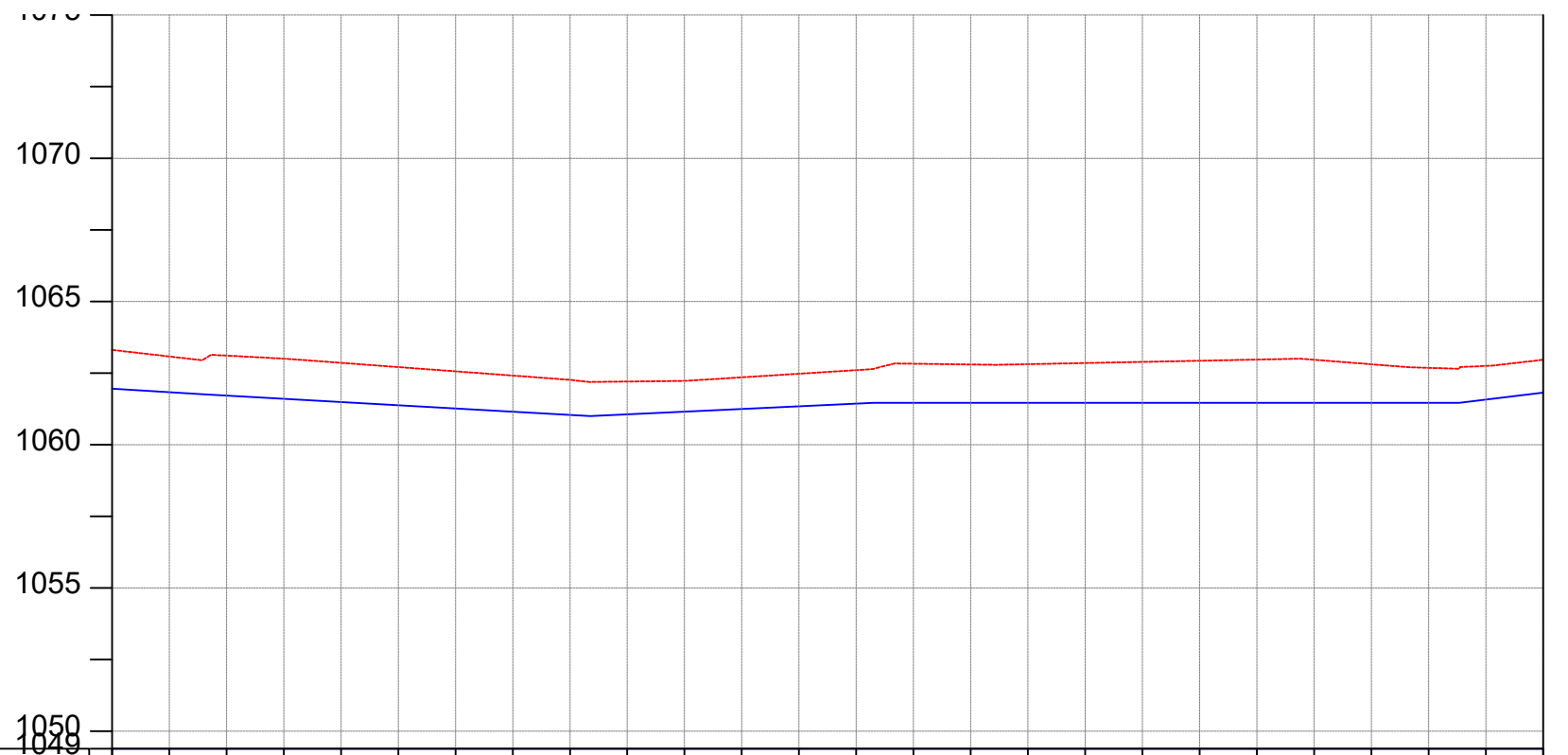
CONSULTANT:

Drawing Title:
BUTALEJA TOWN
DL-14 (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-14 (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)	1063.309	1063.079	1063.109	1063.003	1062.857	1062.709	1062.560	1062.412	1062.263	1062.204	1062.227	1062.351	1062.476	1062.602	1062.826	1062.799	1062.810	1062.850	1062.890	1062.931	1062.971	1062.964	1062.807	1062.682	1062.749	1062.964	1062.964	
PIPE DETAILS	P-20, OD 75, PN10, HDPE, 1965 m																											
PIPE INVERT(m)	1062.209	1061.979	1062.009	1061.903	1061.757	1061.609	1061.460	1061.312	1061.163	1061.104	1061.127	1061.251	1061.376	1061.502	1061.726	1061.699	1061.710	1061.750	1061.790	1061.831	1061.871	1061.864	1061.707	1061.582	1061.649	1061.864	1061.864	

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, BUTALEJA AND BUSOLWE

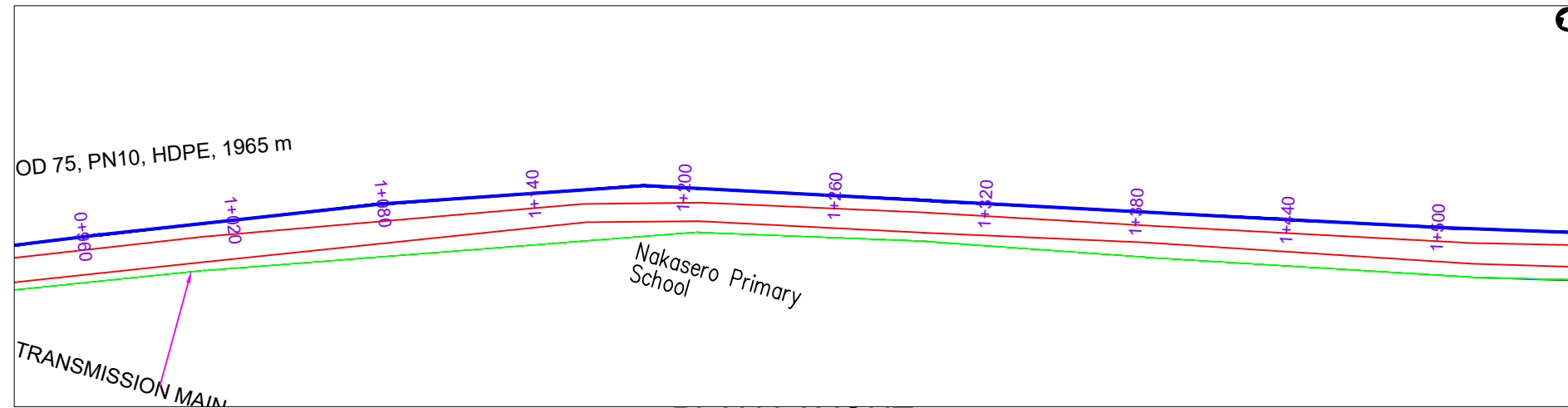
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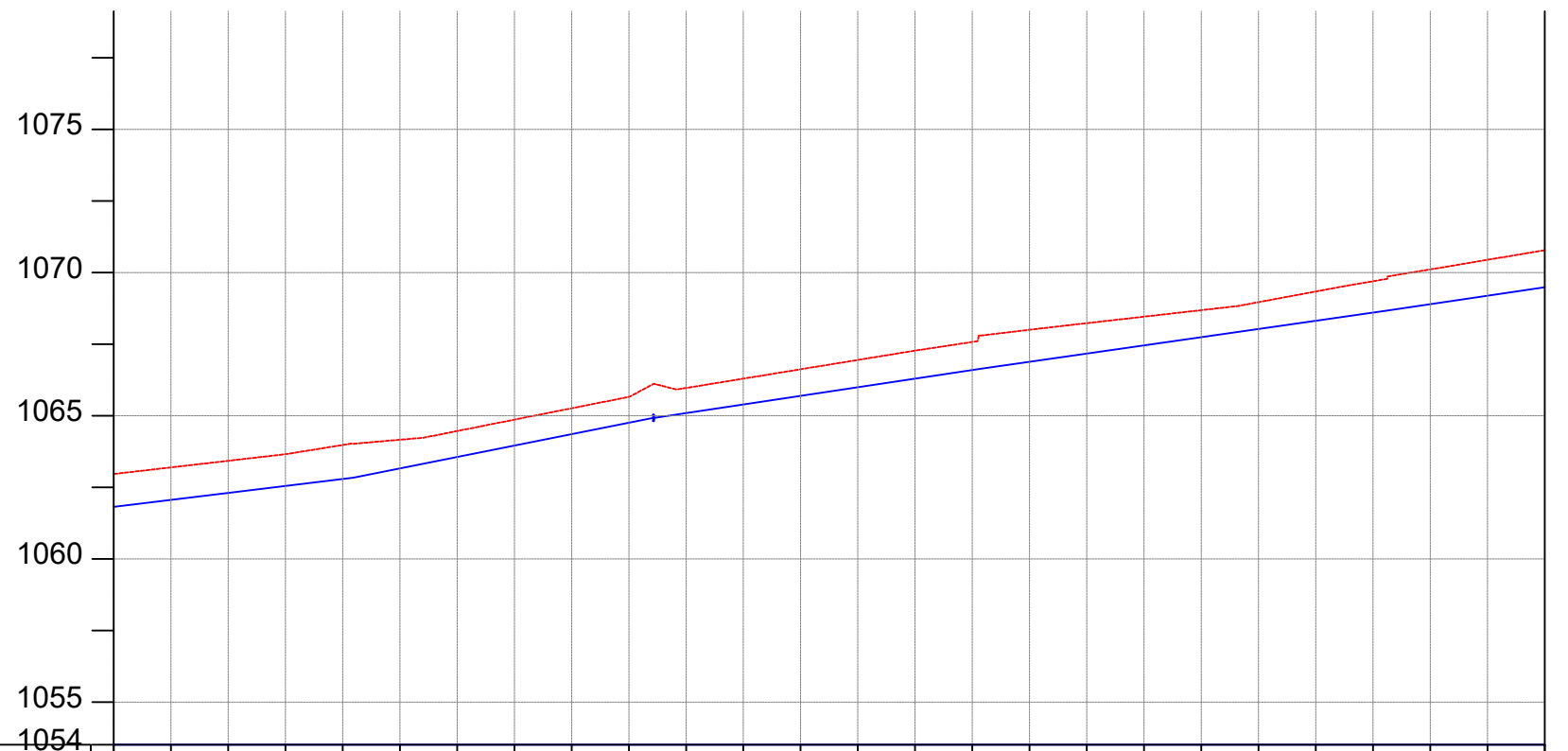
Drawing Title:

**BUTALEJA TOWN
DL-14 (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-14 (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)	1062.964	1063.195	1063.425	1063.656	1063.977	1064.160	1064.465	1064.862	1065.260	1065.657	1065.969	1066.295	1066.621	1066.947	1067.270	1067.575	1068.001	1068.232	1068.459	1068.686	1068.965	1069.339	1069.696	1070.110	1070.444	1070.781		
PIPE DETAILS	P-20, OD 75, PN10, HDPE, 1965 m																											
PIPE INVERT(m)	1061.864	1062.095	1062.325	1062.556	1062.877	1063.060	1063.365	1063.762	1064.160	1064.557	1064.869	1065.195	1065.521	1065.847	1066.170	1066.475	1066.901	1067.132	1067.359	1067.586	1067.865	1068.239	1068.596	1069.010	1069.344	1069.681		

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, BUTALEJA AND BUSOLWE

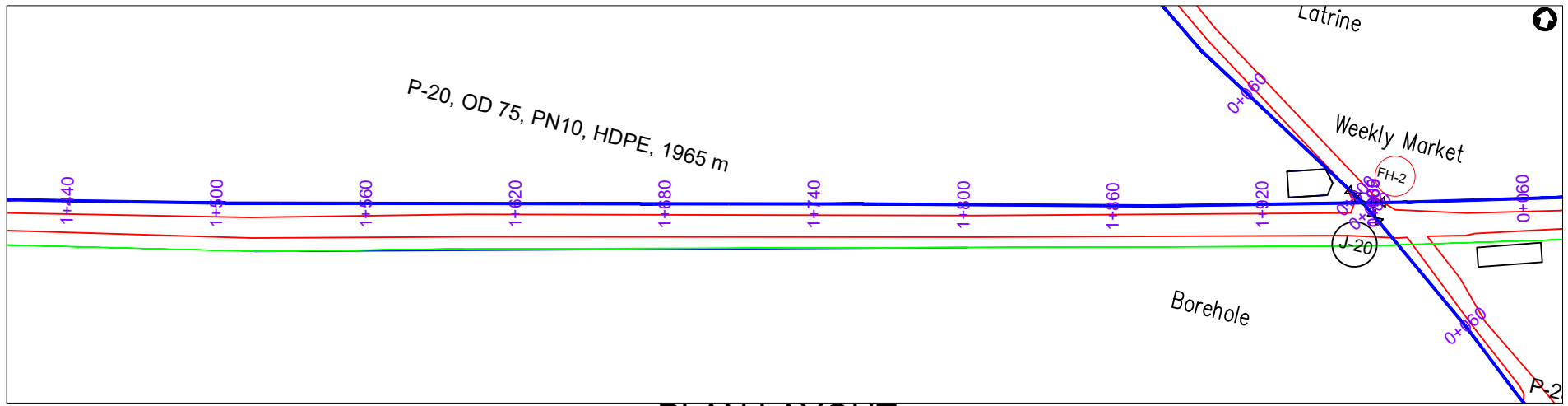
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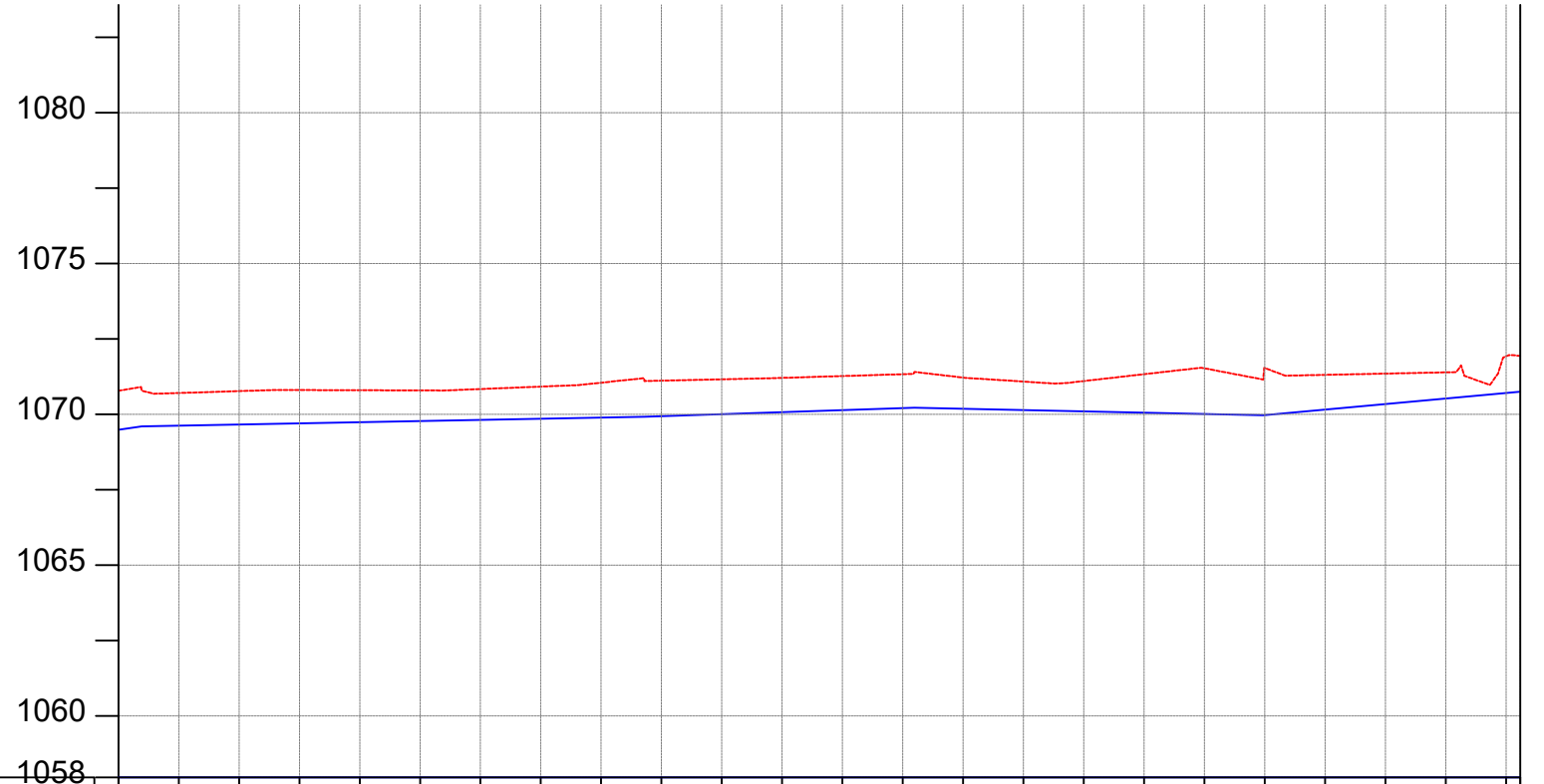
Drawing Title:

BUTALEJA TOWN
DL-14 (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	Drawing No.: IWMDP/MBA/DL-14 (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+760	1+800	1+840	1+880	1+920	1+960										
GROUND LEVEL(m)	1070.781	1070.708	1070.770	1070.806	1070.800	1070.794	1070.840	1070.920	1071.049	1071.117	1071.161	1071.209	1071.270	1071.330	1071.219	1071.087	1071.104	1071.331	1071.527	1071.537	1071.309	1071.351	1071.393
PIPE DETAILS	P-20, OD 75, PN10, HDPE, 1965 m																						
PIPE INVERT(m)	1069.681	1069.608	1069.670	1069.706	1069.700	1069.694	1069.740	1069.820	1069.949	1070.017	1070.061	1070.109	1070.170	1070.230	1070.119	1069.987	1070.004	1070.231	1070.427	1070.437	1070.209	1070.251	1070.293

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

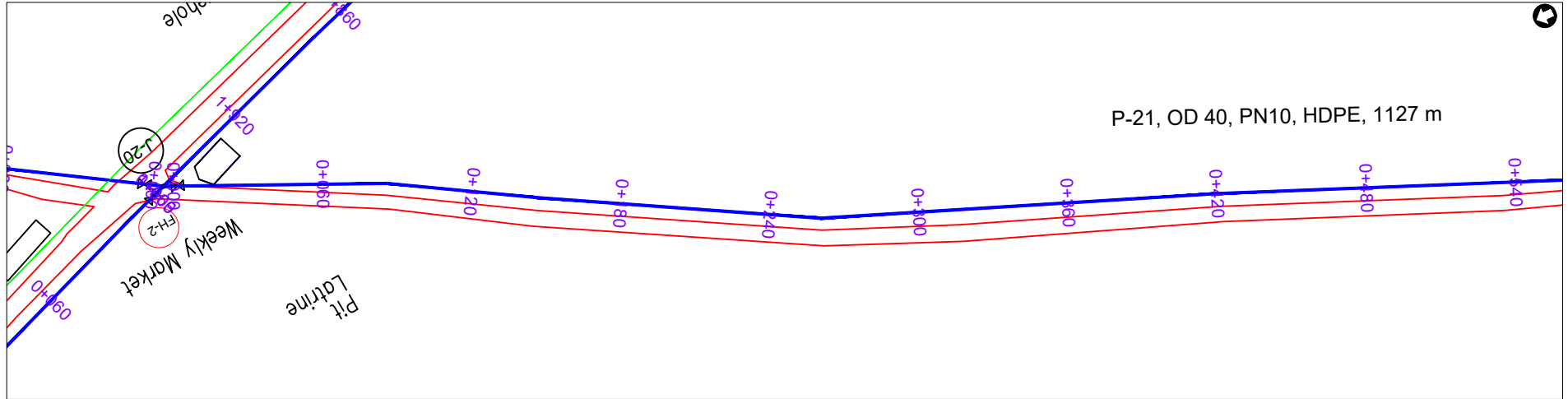
MINISTRY OF WATER AND ENVIRONMENT

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

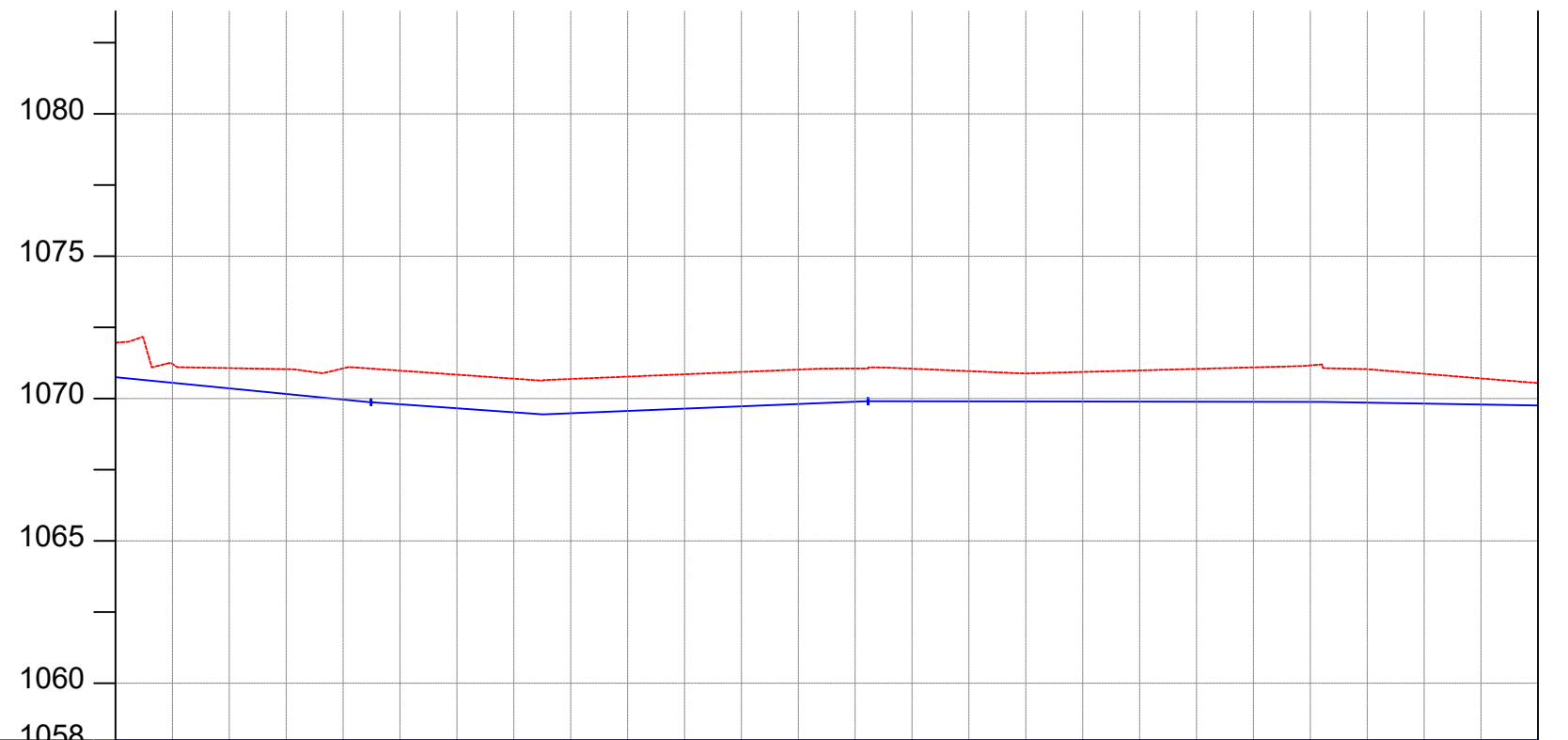
CONSULTANT:

Drawing Title:
BUTALEJA TOWN
DL-14 (CH 1+500.00 - 1+964.73)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-14 (CH 1+500.00 - 1+964.73)
Sheet No.: 4	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)	1071.936	1071.220	1071.070	1071.033	1071.061	1070.981	1070.840	1070.699	1070.689	1070.771	1070.854	1070.936	1071.019	1071.058	1071.050	1070.964	1070.882	1070.936	1070.989	1071.043	1071.097	1071.164	1071.033	1070.870	1070.708	1070.545		
PIPE DETAILS	P-21, OD 40, PN10, HDPE, 1127 m																											
PIPE INVERT(m)	1070.836	1070.120	1069.970	1069.933	1069.961	1069.881	1069.740	1069.599	1069.589	1069.671	1069.754	1069.836	1069.919	1069.958	1069.950	1069.864	1069.782	1069.836	1069.889	1069.943	1069.997	1070.064	1069.933	1069.770	1069.608	1069.445		

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
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:

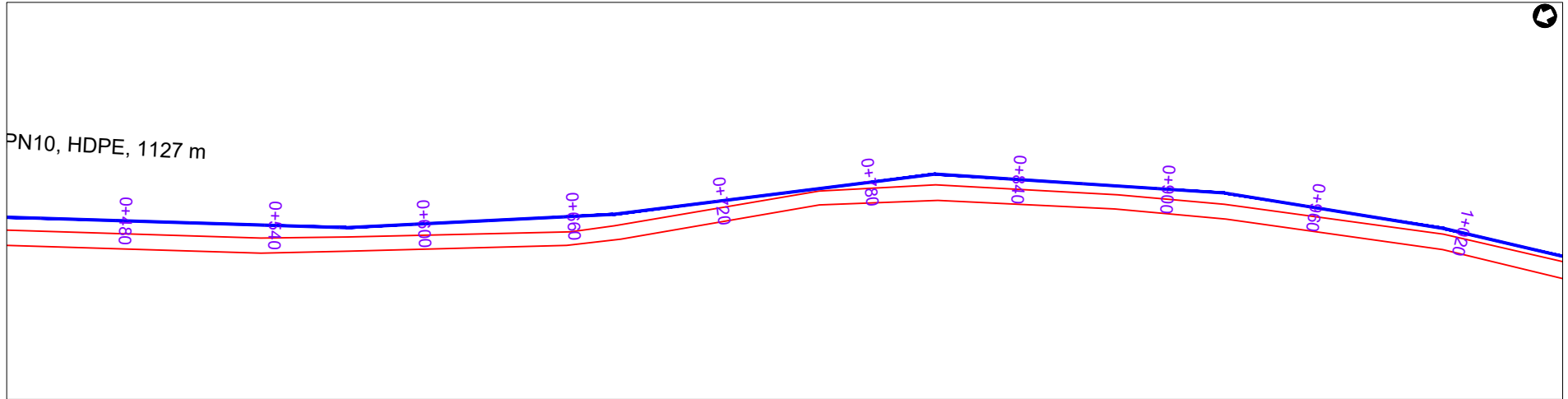
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU, TIRINYI, BUTALEJA AND BUSOLWE

CONSULTANT:

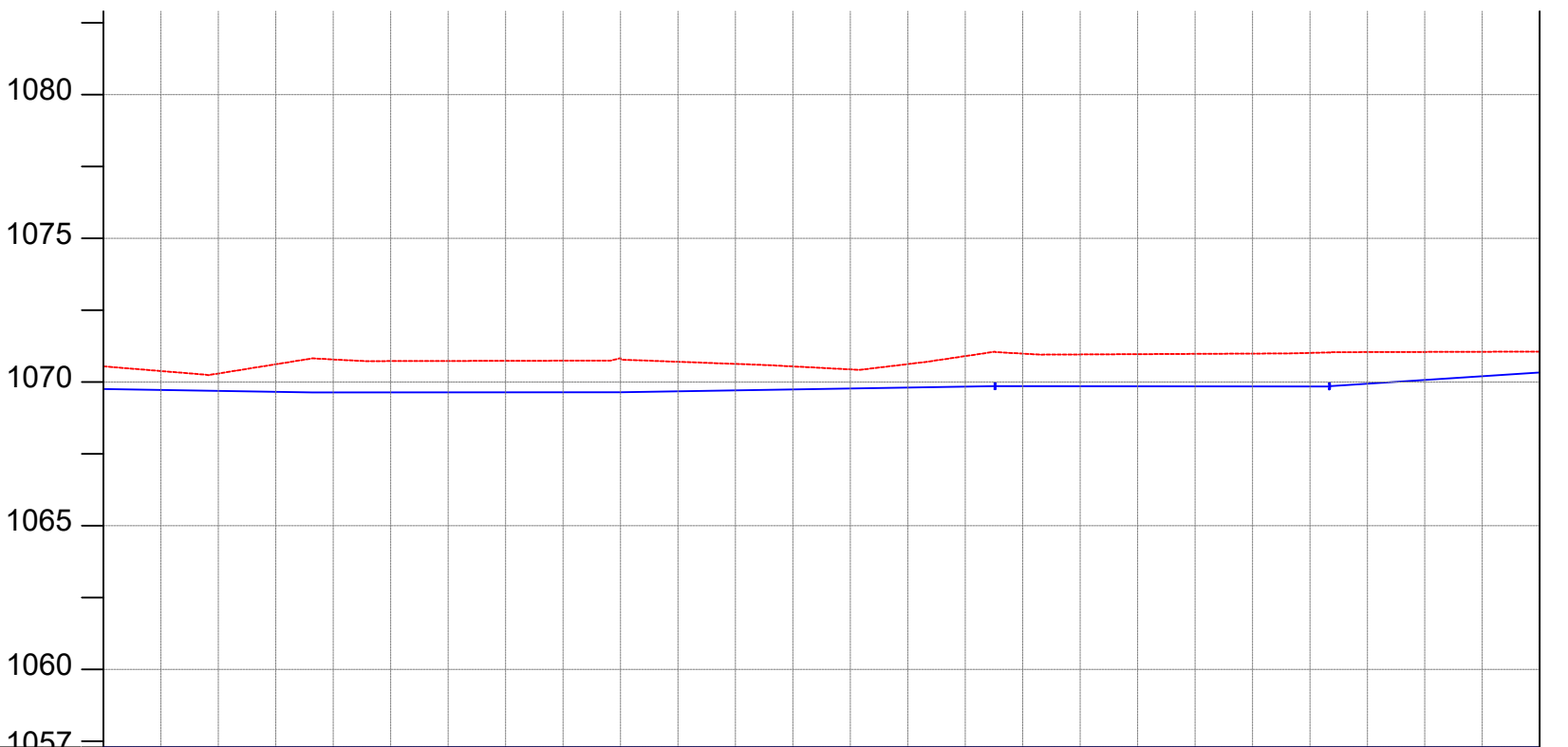
Drawing Title:

BUTALEJA TOWN
DL-15 (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-15 (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)	1070.545	1070.382	1070.297	1070.618	1070.784	1070.729	1070.733	1070.738	1070.742	1070.830	1070.705	1070.631	1070.543	1070.440	1070.624	1070.902	1070.988	1070.960	1070.970	1070.980	1070.989	1071.013	1071.042	1071.047	1071.053	1071.058
PIPE DETAILS	P-21, OD 40, PN10, HDPE, 1127 m																									
PIPE INVERT(m)	1069.445	1069.282	1069.197	1069.518	1069.684	1069.629	1069.633	1069.638	1069.642	1069.730	1069.605	1069.531	1069.443	1069.340	1069.524	1069.802	1069.888	1069.860	1069.870	1069.880	1069.889	1069.913	1069.942	1069.947	1069.953	1069.958

AMENDMENTS

No	Date	Revision

- NOTES**
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 - 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
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

MINISTRY OF WATER AND ENVIRONMENT

PROJECT:

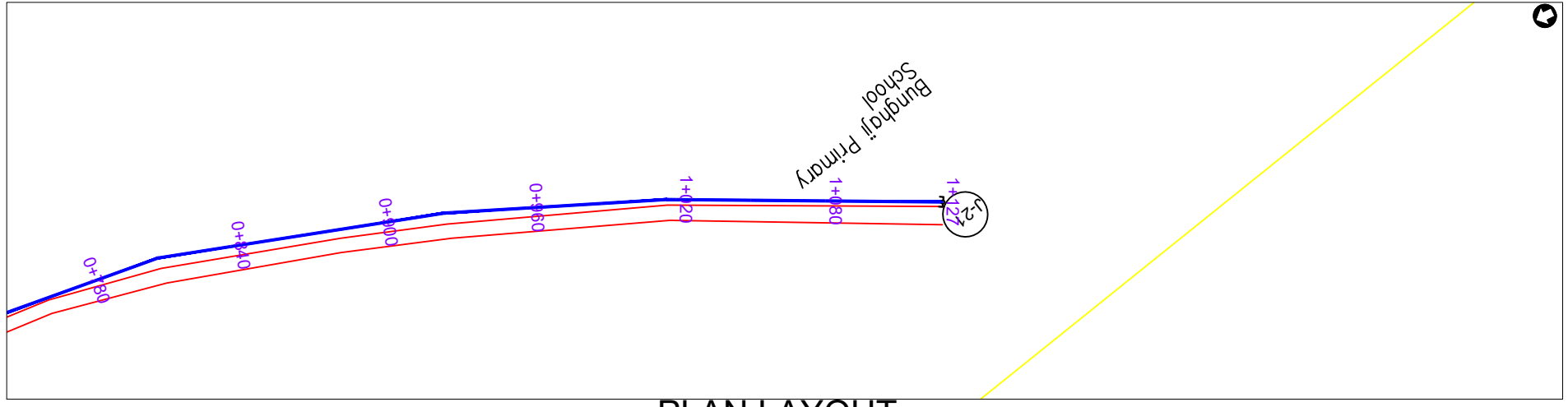
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU, TIRINYI, BUTALEJA AND BUSOLWE

CONSULTANT:

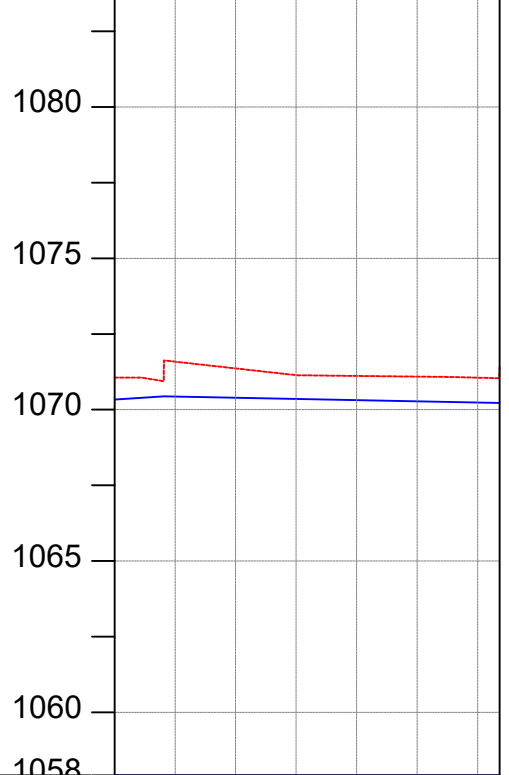
Drawing Title:

BUTALEJA TOWN
DL-15 (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-15 (CH 0+500.00 - 1+000.00)
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	1+000		1+040		1+080		1+127
GROUND LEVEL(m)	1071.058	1071.586	1071.363	1071.140	1071.115	1071.092	1071.057
PIPE DETAILS	P-21, OD 40, PN10, HDPE, 1127 m						
PIPE INVERT(m)	1069.958	1070.486	1070.263	1070.040	1070.015	1069.992	1069.957

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

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, BUTALEJA AND BUSOLWE

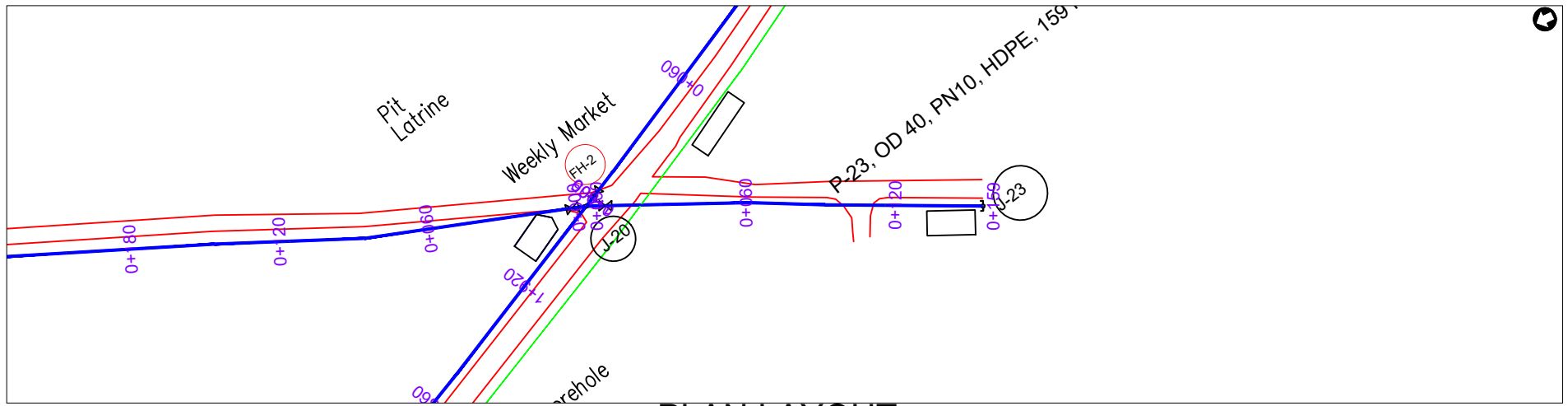
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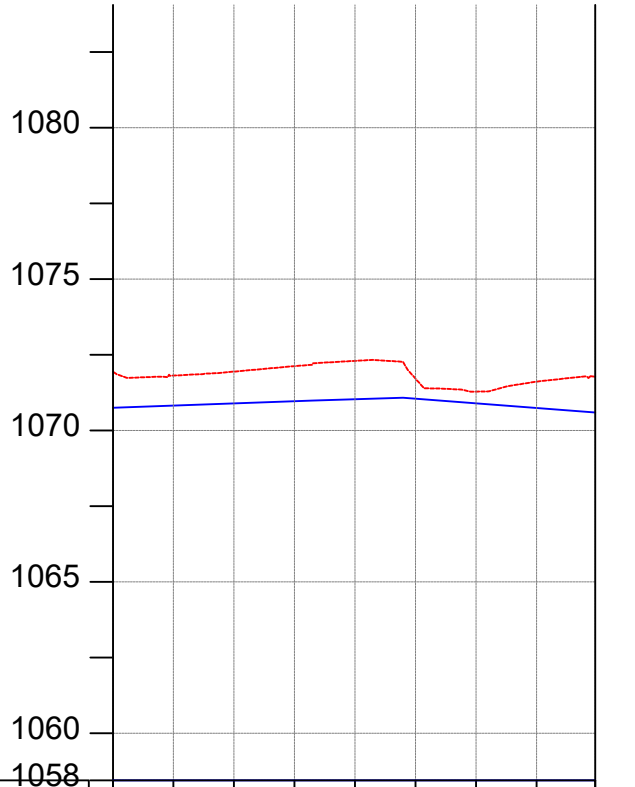
Drawing Title:

**BUTALEJA TOWN
DL-15 (CH 1+000.00 - 1+127.23)**

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-15 (CH 1+000.00 - 1+127.23)
Sheet No.: 3	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+159
GROUND LEVEL(m)	1071.936	1071.813	1071.945	1072.126	1072.300	1071.710	1071.284	1071.614	1071.777
PIPE DETAILS	P-23, OD 40, PN10, HDPE, 159 m								
PIPE INVERT(m)	1070.836	1070.713	1070.845	1071.026	1071.200	1070.610	1070.184	1070.514	1070.677

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

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, BUTALEJA AND BUSOLWE

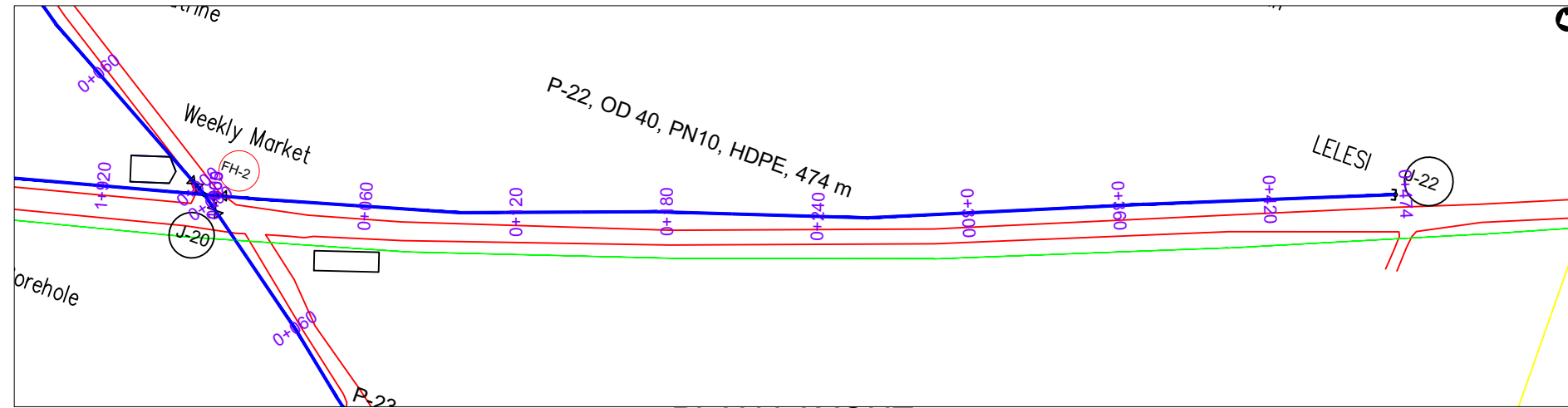
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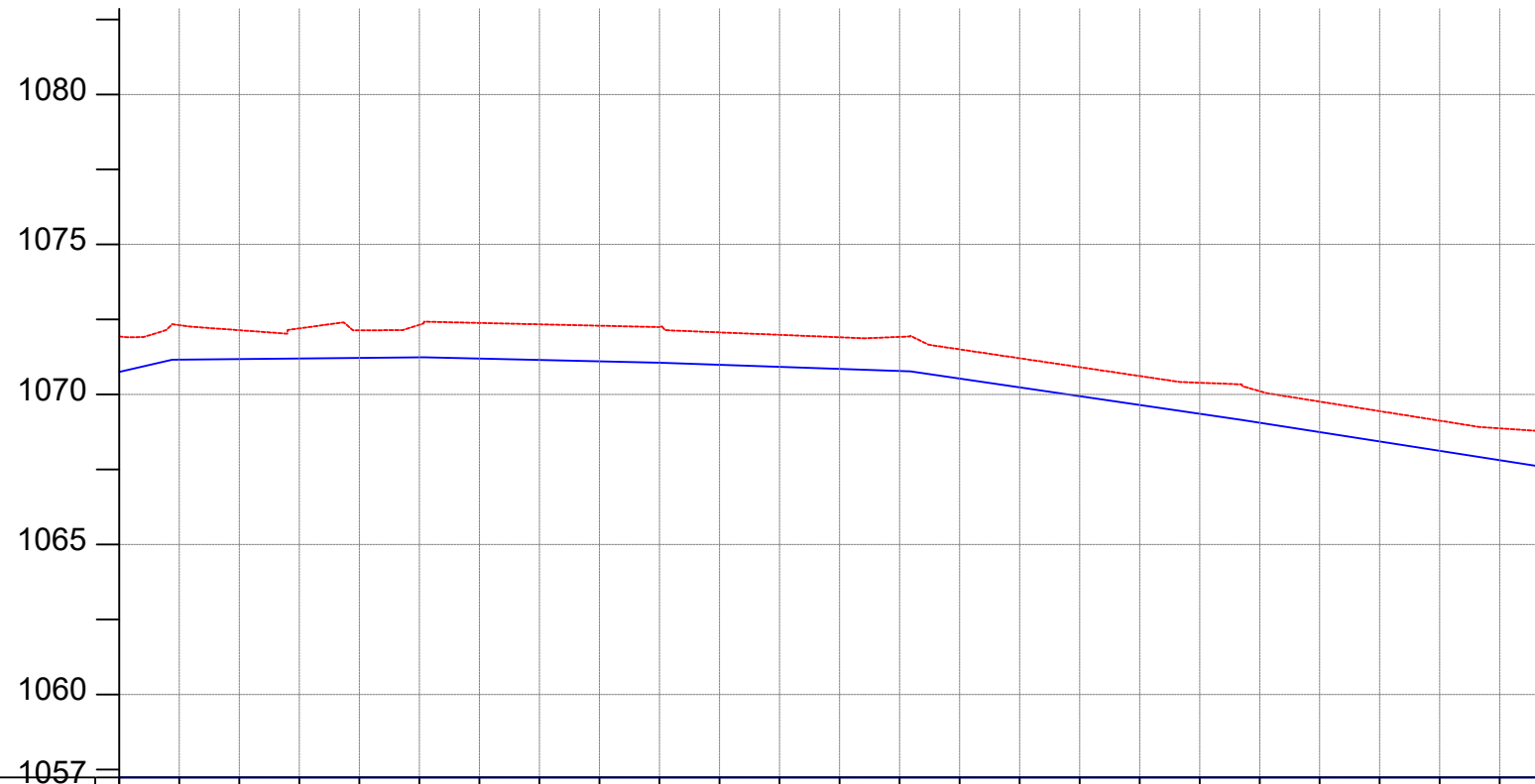
Drawing Title:

**BUTALEJA TOWN
DL-16 (CH 0+000.00 - 0+159.36)**

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-16 (CH 0+000.00 - 0+159.36)	
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+474	
GROUND LEVEL(m)	1071.936	1072.312	1072.143	1072.203	1072.139	1072.324	1072.385	1072.338	1072.292	1072.246	1072.070	1071.989	1071.907	1071.920	1071.504	1071.208	1070.912	1070.616	1070.391	1070.112	1069.763	1069.445	1069.127	1068.869	
PIPE DETAILS	P-22, OD 40, PN10, HDPE, 474 m																								
PIPE INVERT(m)	1070.836	1071.212	1071.043	1071.103	1071.039	1071.224	1071.285	1071.238	1071.192	1071.146	1070.970	1070.889	1070.807	1070.820	1070.404	1070.108	1069.812	1069.516	1069.291	1069.012	1068.663	1068.345	1068.027	1067.769	

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, BUTALEJA AND BUSOLWE

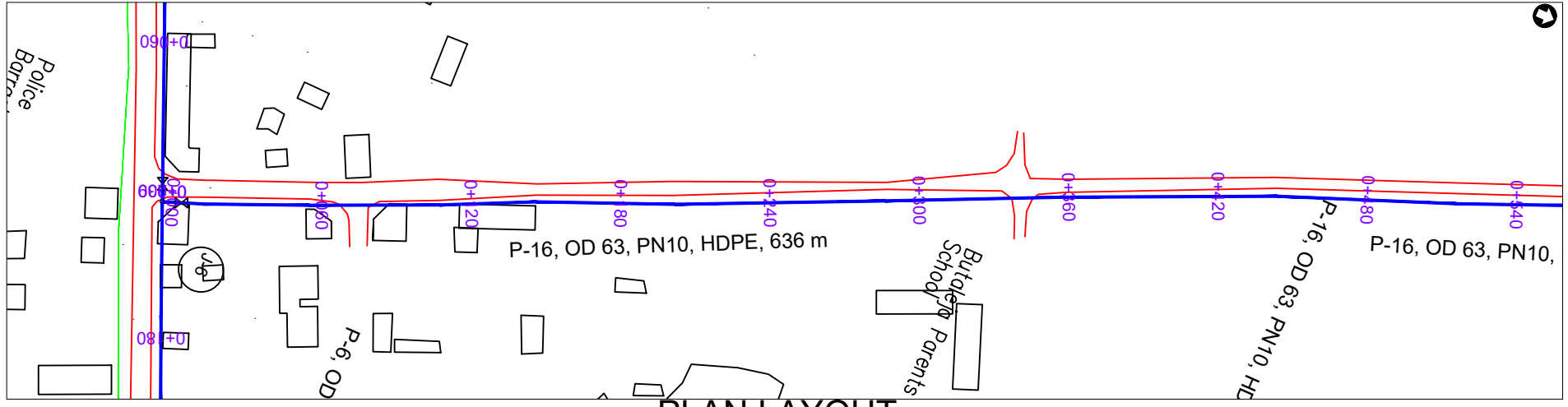
CONSULTANT:



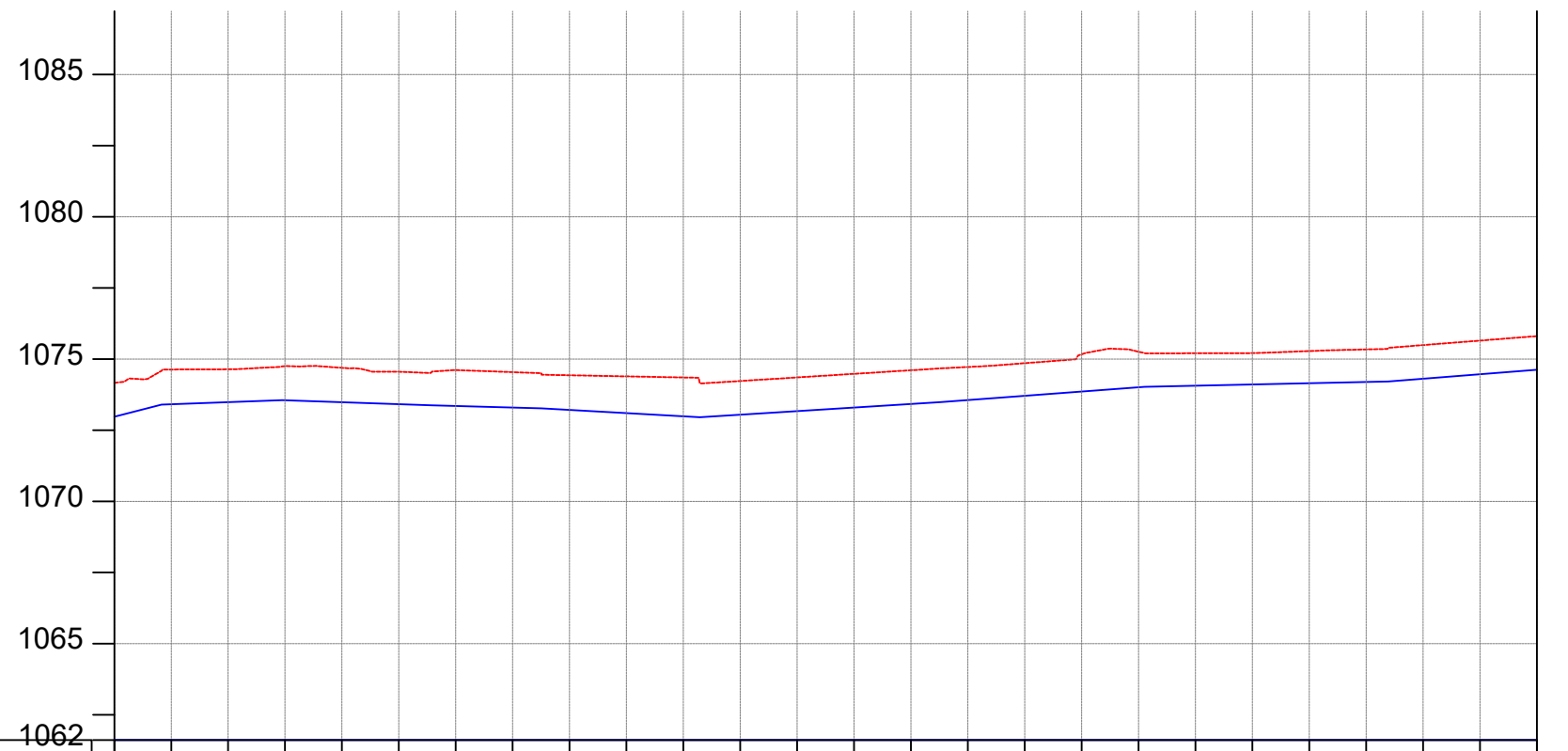
Drawing Title:

**BUTALEJA TOWN
DL-17 (CH 0+000.00 - 0+474.15)**

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-17 (CH 0+000.00 - 0+474.15)
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	0+440	0+480	0+500												
GROUND LEVEL(m)	1074.162	1074.633	1074.640	1074.753	1074.692	1074.555	1074.612	1074.541	1074.431	1074.392	1074.353	1074.229	1074.355	1074.481	1074.607	1074.722	1074.855	1075.166	1075.259	1075.204	1075.209	1075.281	1075.339	1075.491	1075.649	1075.807
PIPE DETAILS	P-16, OD 63, PN10, HDPE, 636 m																									
PIPE INVERT(m)	1073.062	1073.533	1073.540	1073.653	1073.592	1073.455	1073.512	1073.441	1073.331	1073.292	1073.253	1073.129	1073.255	1073.381	1073.507	1073.622	1073.755	1074.066	1074.159	1074.104	1074.109	1074.181	1074.239	1074.391	1074.549	1074.707

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

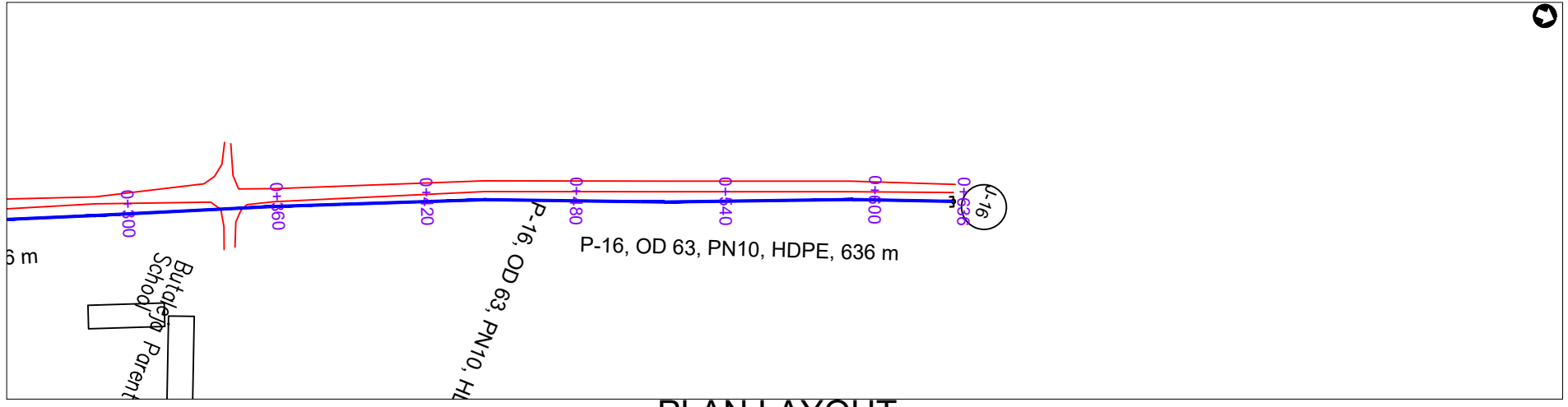
MINISTRY OF WATER AND ENVIRONMENT

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

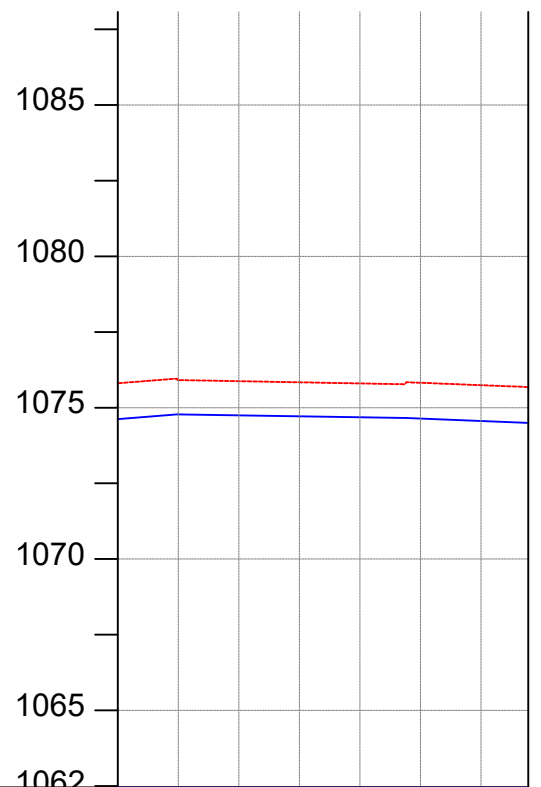
CONSULTANT:

Drawing Title:
BUTALEJA TOWN
DL-19 (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-19 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520		0+560		0+600		0+636
GROUND LEVEL(m)	1075.807	1075.912	1075.875	1075.838	1075.801	1075.823	1075.743	1075.681
PIPE DETAILS	P-16, OD 63, PN10, HDPE, 636 m							
PIPE INVERT(m)	1074.707	1074.812	1074.775	1074.738	1074.701	1074.723	1074.643	1074.581

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, BUTALEJA AND BUSOLWE

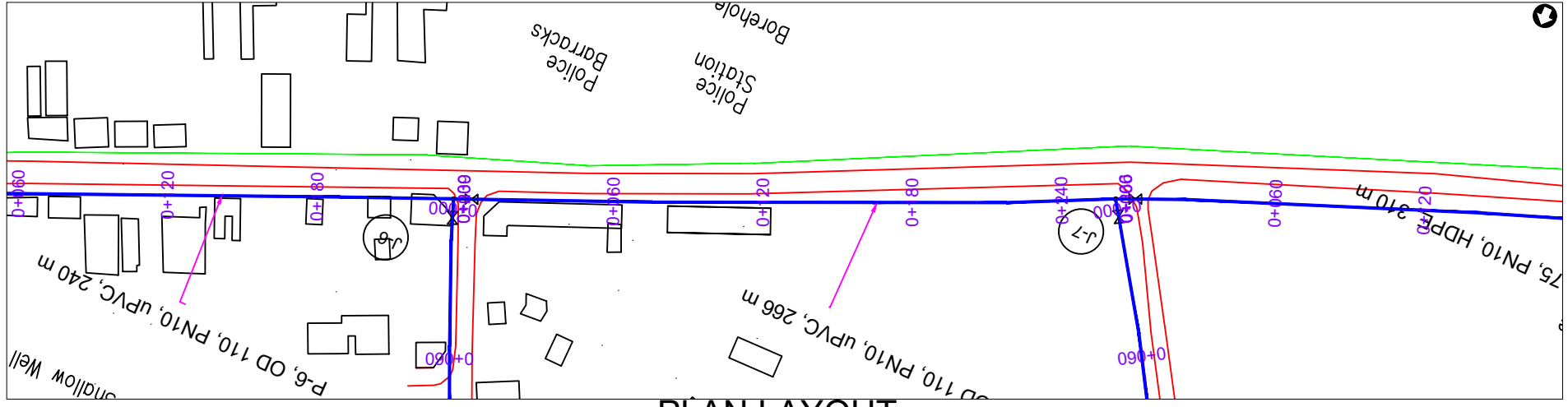
CONSULTANT:



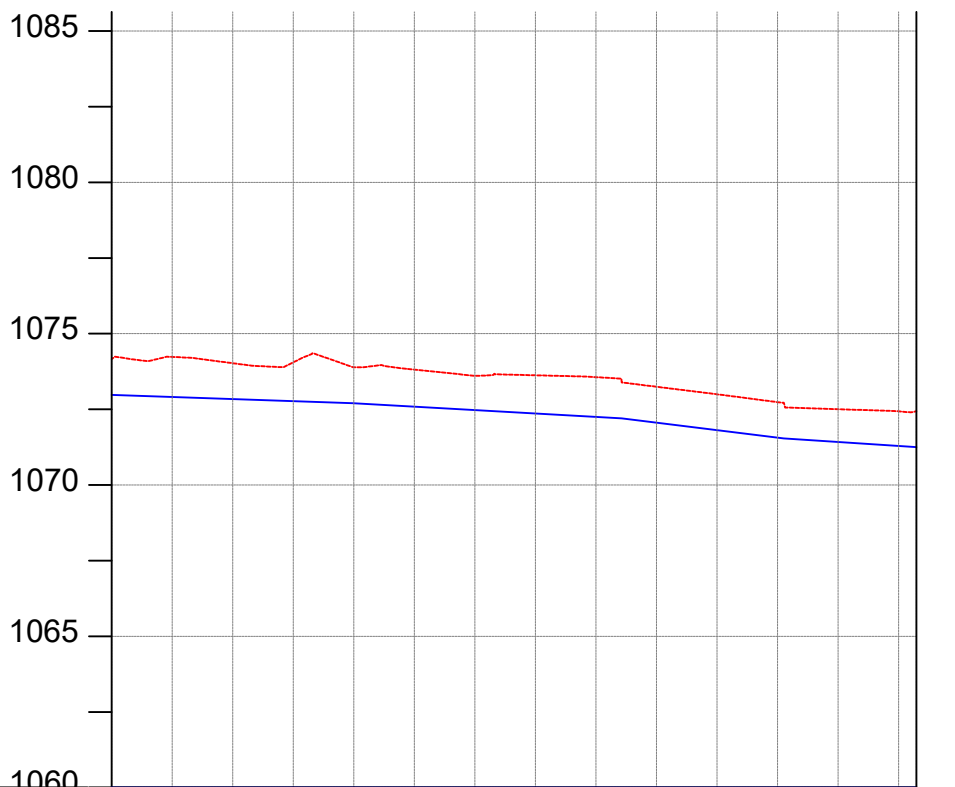
Drawing Title:

**BUTALEJA TOWN
DL-19 (CH 0+500.00 - 0+635.64)**

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-19 (CH 0+500.00 - 0+635.64)	
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+160		0+200		0+240	0+266
GROUND LEVEL(m)	1074.162	1074.231	1074.024	1074.053	1073.889	1073.813	1073.608	1073.625	1073.563	1073.247	1072.998	1072.739	1072.506	1072.434
PIPE DETAILS	— P-7, OD 110, PN10, uPVC, 266 m —													
PIPE INVERT(m)	1073.062	1073.131	1072.924	1072.953	1072.789	1072.713	1072.508	1072.525	1072.463	1072.147	1071.898	1071.639	1071.406	1071.334

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

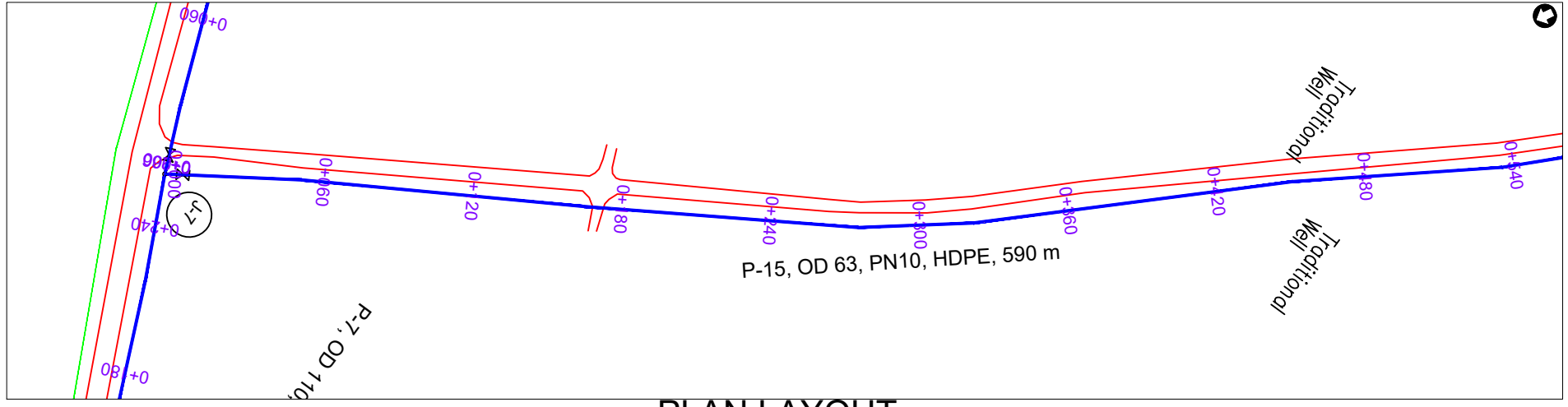
MINISTRY OF WATER AND ENVIRONMENT

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

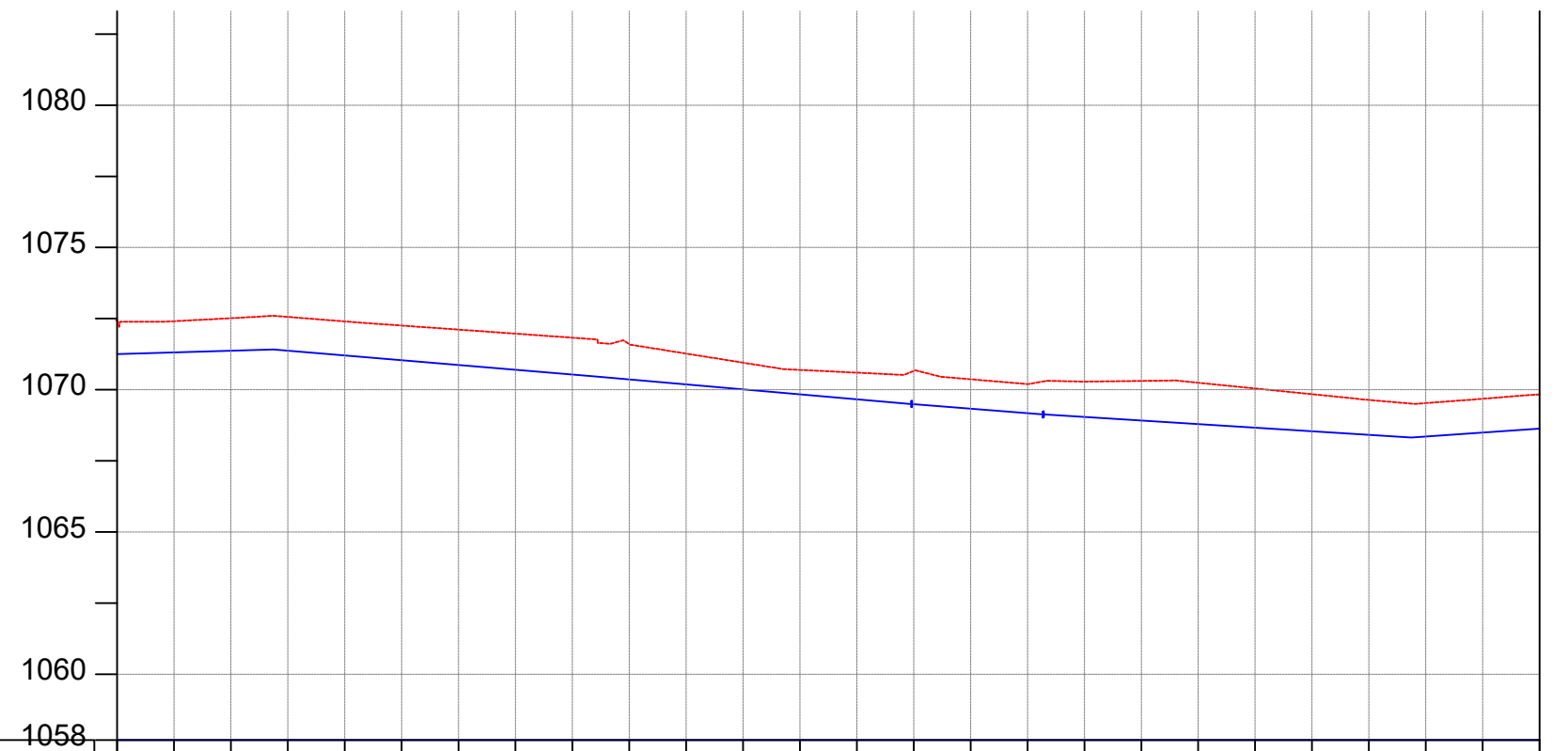
CONSULTANT:

Drawing Title:
BUTALEJA TOWN
DL-20 (CH 0+000.00 - 0+265.89)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-20 (CH 0+000.00 - 0+265.89)
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)	1072.438	1072.409	1072.515	1072.560	1072.401	1072.256	1072.114	1071.972	1071.829	1071.603	1071.271	1070.952	1070.697	1070.600	1070.659	1070.369	1070.201	1070.285	1070.310	1070.248	1070.045	1069.842	1069.641	1069.532	1069.682	1069.836	
PIPE DETAILS	P-15, OD 63, PN10, HDPE, 590 m																										
PIPE INVERT(m)	1071.338	1071.309	1071.415	1071.460	1071.301	1071.156	1071.014	1070.872	1070.729	1070.503	1070.171	1069.852	1069.597	1069.500	1069.559	1069.269	1069.101	1069.185	1069.210	1069.148	1068.945	1068.742	1068.541	1068.432	1068.582	1068.736	

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
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

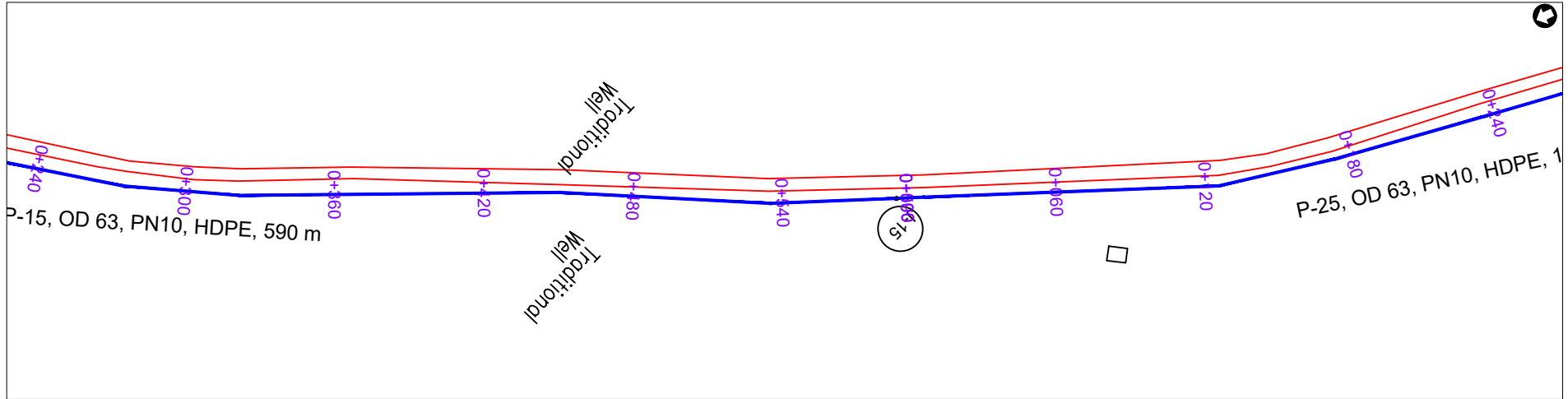
MINISTRY OF WATER AND ENVIRONMENT

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

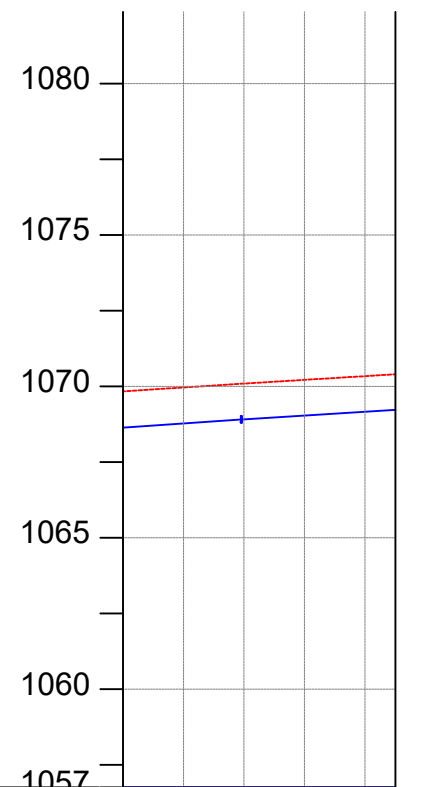
CONSULTANT:

Drawing Title:
BUTALEJA TOWN
DL-21 (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-21 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520	0+560	0+590
GROUND LEVEL(m)	1069.836	1069.965	1070.093	1070.216
PIPE DETAILS	P-15, OD 63, PN10, HDPE, 590 m			
PIPE INVERT(m)	1068.736	1068.865	1068.993	1069.116
	1069.239	1070.339	1070.401	1070.401

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, BUTALEJA AND BUSOLWE

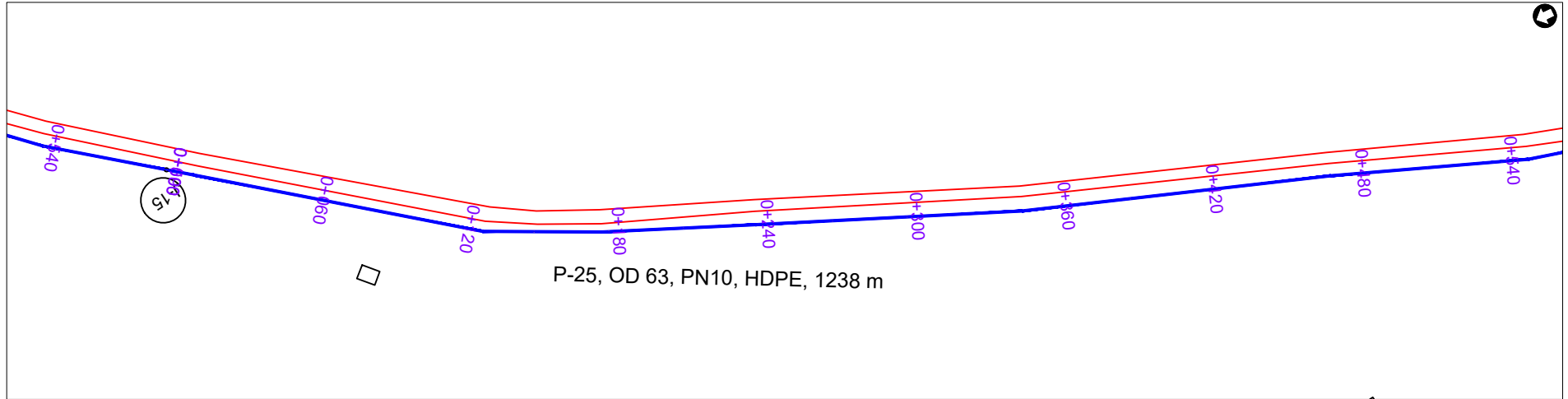
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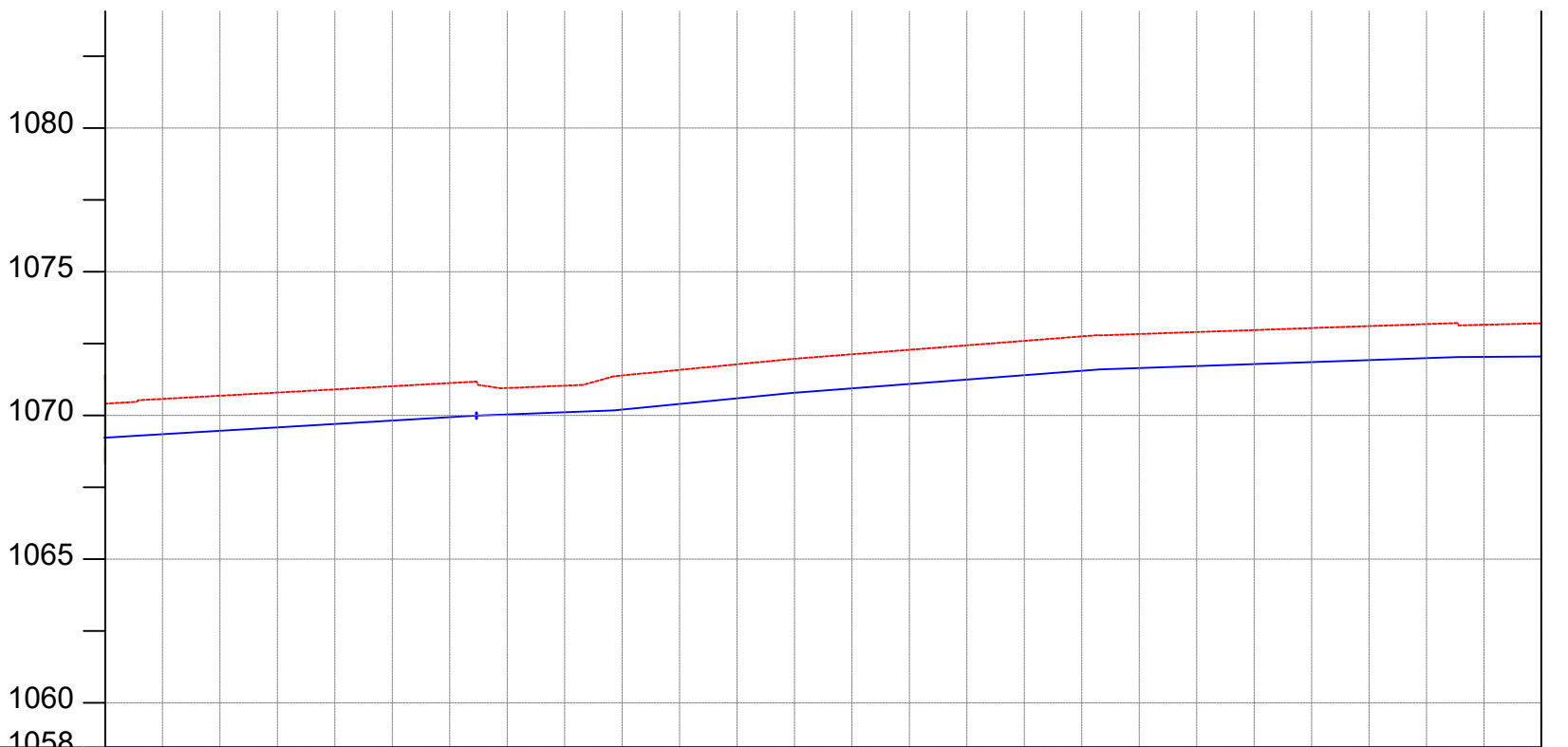
Drawing Title:

**BUTALEJA TOWN
DL-21 (CH 0+500.00 - 0+590.04)**

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-21 (CH 0+500.00 - 0+590.04)
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE INVERT(m)
0+000	1070.408	1069.308
0+040	1070.576	1069.476
0+080	1070.686	1069.586
0+120	1070.796	1069.696
0+160	1070.906	1069.806
0+200	1071.016	1069.916
0+240	1071.126	1070.026
0+280	1070.953	1069.853
0+320	1071.036	1069.936
0+360	1071.390	1070.290
0+400	1071.585	1070.485
0+440	1071.780	1070.680
0+480	1071.972	1070.872
0+500	1072.128	1071.028
	1072.284	1071.184
	1072.439	1071.339
	1072.595	1071.495
	1072.751	1071.651
	1072.833	1071.733
	1072.902	1071.802
	1072.971	1071.871
	1073.040	1071.940
	1073.109	1072.009
	1073.178	1072.078
	1073.155	1072.055
	1073.205	1072.105

P-25, OD 63, PN10, HDPE, 1238 m

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
	Double Orifice Air Valve
	Type 2 Washout
	Node detail No. 01

REPUBLIC OF UGANDA



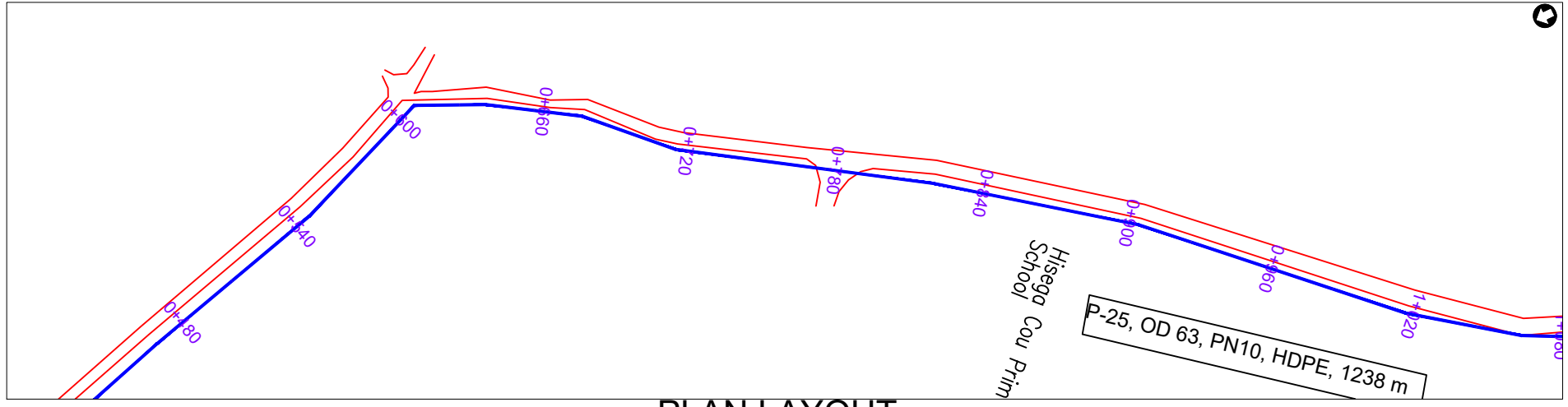
MINISTRY OF WATER AND ENVIRONMENT

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

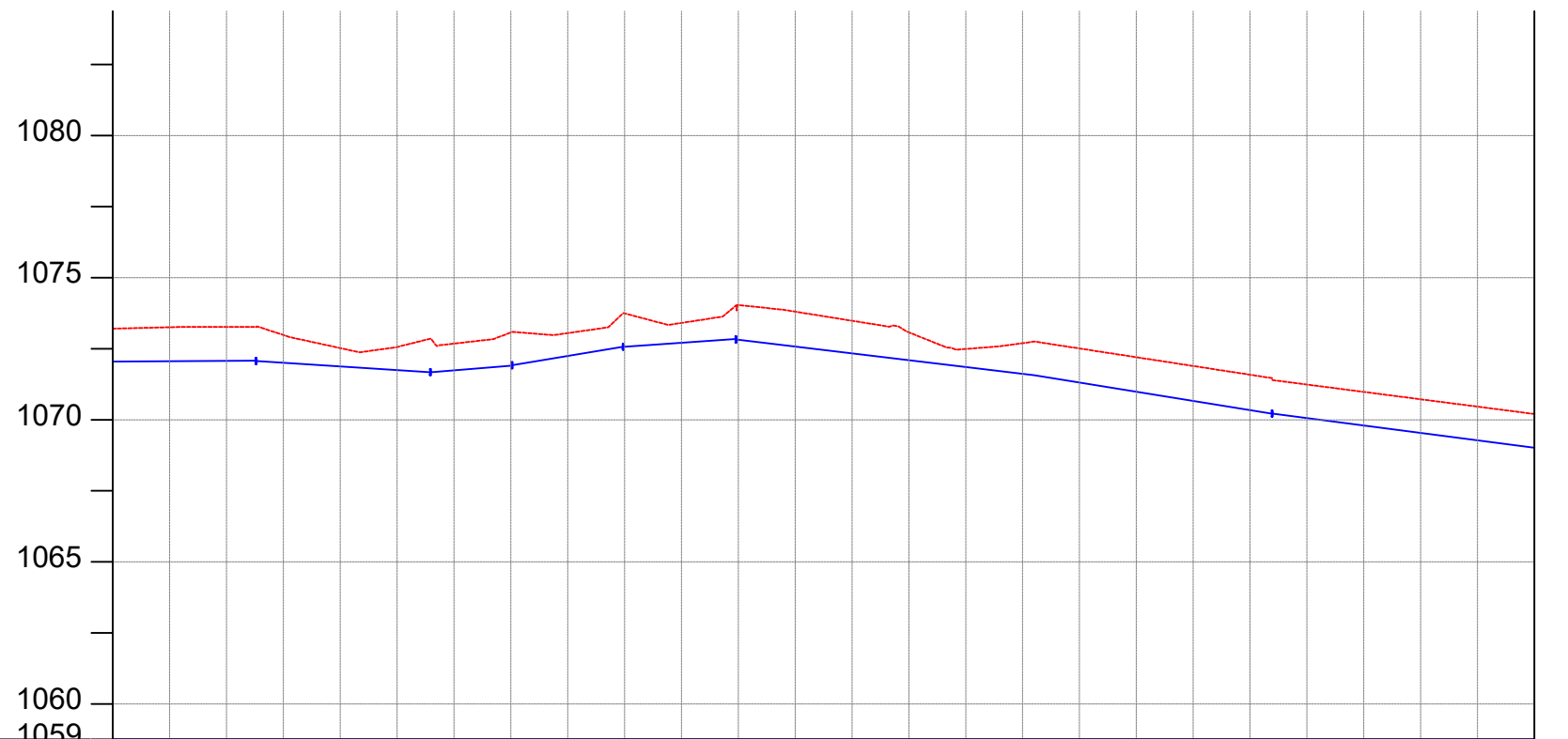
CONSULTANT:

Drawing Title:
BUTALEJA TOWN
DL-22 (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-22 (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)	1073.205	1073.255	1073.263	1072.983	1072.521	1072.559	1072.679	1073.071	1073.048	1073.745	1073.406	1074.036	1073.804	1073.483	1073.075	1072.490	1072.695	1072.508	1072.200	1071.892	1071.584	1071.240	1070.980	1070.721	1070.462	1070.203		
PIPE DETAILS	P-25, OD 63, PN10, HDPE, 1238 m																											
PIPE INVERT(m)	1072.105	1072.155	1072.163	1071.883	1071.421	1071.459	1071.579	1071.971	1071.948	1072.645	1072.306	1072.936	1072.704	1072.383	1071.975	1071.390	1071.595	1071.408	1071.100	1070.792	1070.484	1070.140	1069.880	1069.621	1069.362	1069.103		

AMENDMENTS

No	Date	Revision

- NOTES**
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 - 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, BUTALEJA AND BUSOLWE

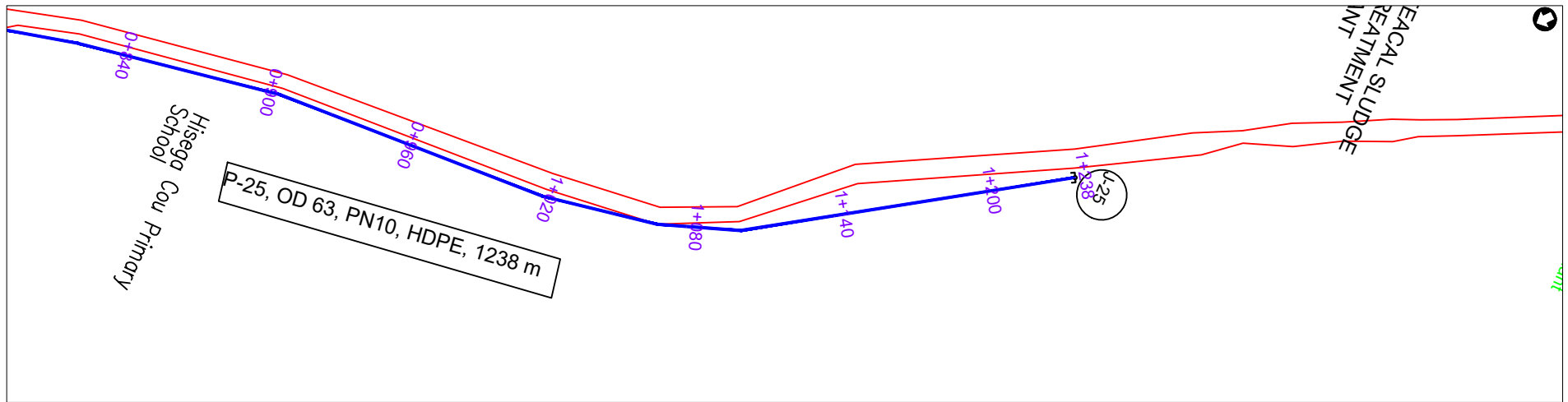
CONSULTANT:

Drawing Title:

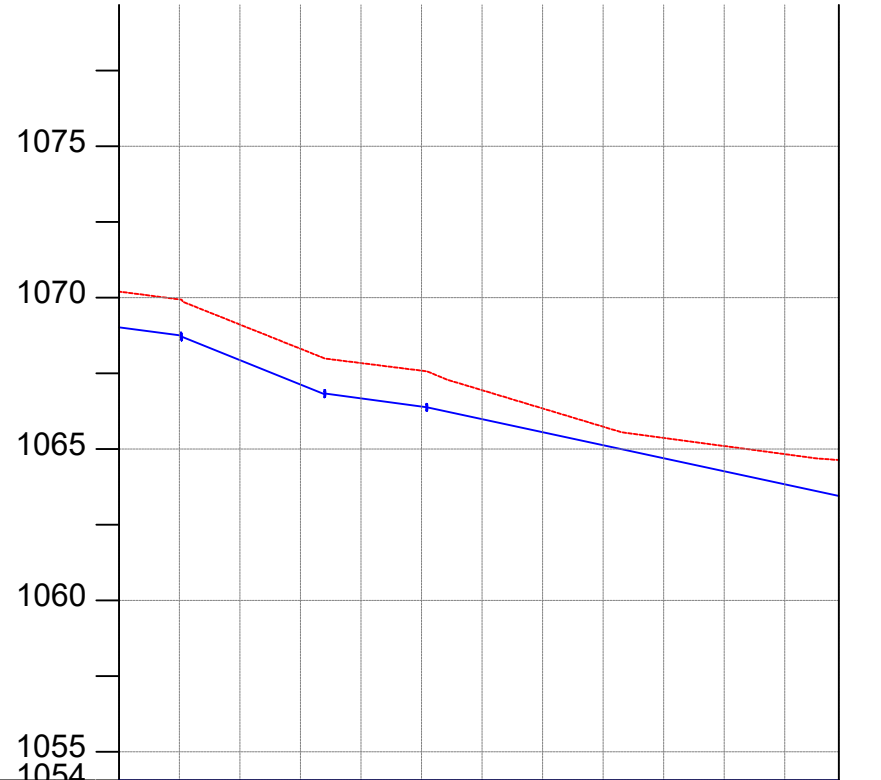
BUTALEJA TOWN

DL-22 (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.: IWM DP/MBA/DL-22 (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+238
GROUND LEVEL(m)	1070.203	1069.943	1069.111	1068.313	1067.840	1067.590	1066.944	1066.341	1065.738	1065.369	1065.100	1064.832	1064.636
PIPE DETAILS	P-25, OD 63, PN10, HDPE, 1238 m												
PIPE INVERT(m)	1069.103	1068.843	1068.011	1067.213	1066.740	1066.490	1065.844	1065.241	1064.638	1064.269	1064.000	1063.732	1063.536

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:

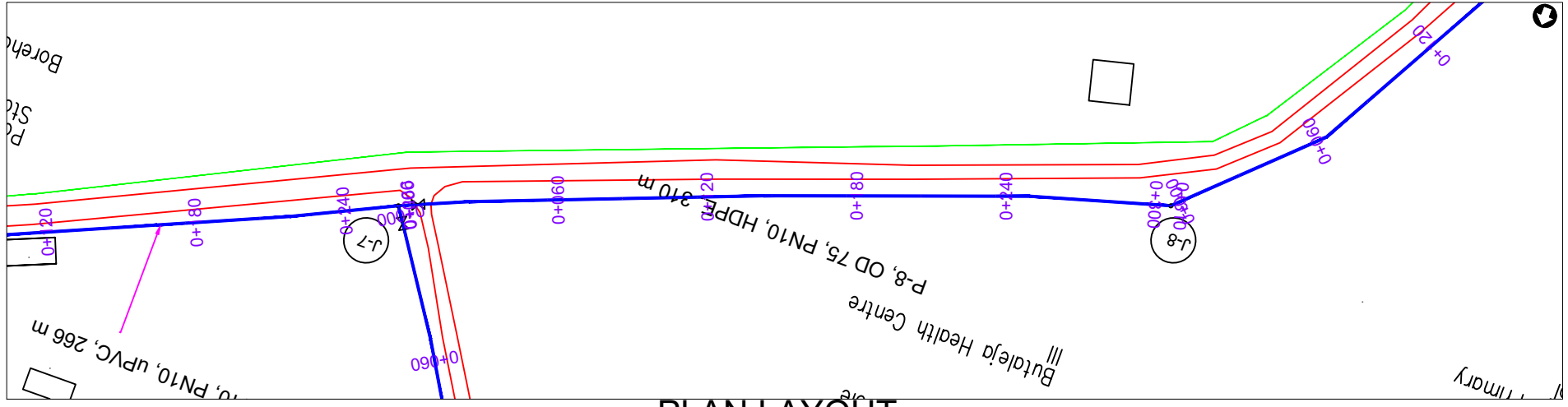
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU, TIRINYI, BUTALEJA AND BUSOLWE

CONSULTANT:

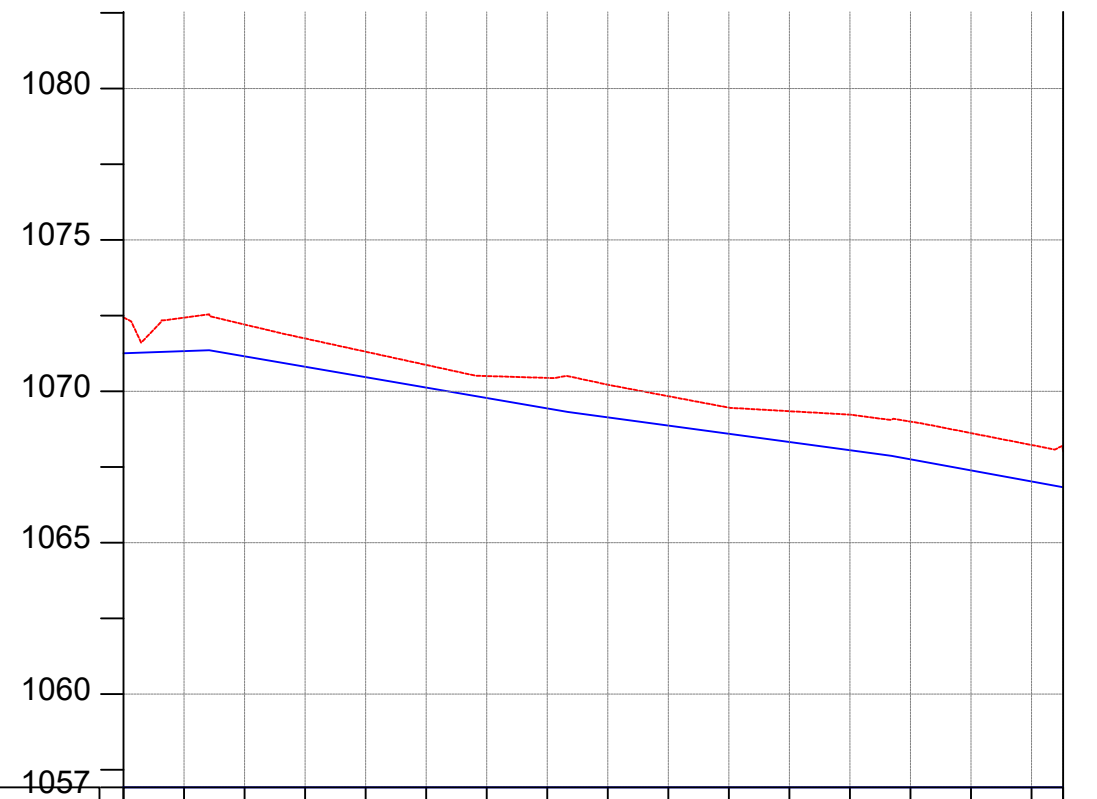
Drawing Title:

BUTALEJA TOWN
DL-22 (CH 1+000.00 - 1+237.88)

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-22 (CH 1+000.00 - 1+237.88)	
Sheet No.: 3	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+040	0+080	0+120	0+160	0+200	0+240	0+280	0+310							
GROUND LEVEL(m)	1072.438	1072.431	1072.204	1071.743	1071.307	1070.870	1070.502	1070.442	1070.217	1069.837	1069.458	1069.341	1069.228	1068.999	1068.618	1068.225
PIPE DETAILS	P-8, OD 75, PN10, HDPE, 310 m															
PIPE INVERT(m)	1071.338	1071.331	1071.104	1070.643	1070.207	1069.770	1069.402	1069.342	1069.117	1068.737	1068.358	1068.241	1068.128	1067.899	1067.518	1067.125

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, BUTALEJA AND BUSOLWE

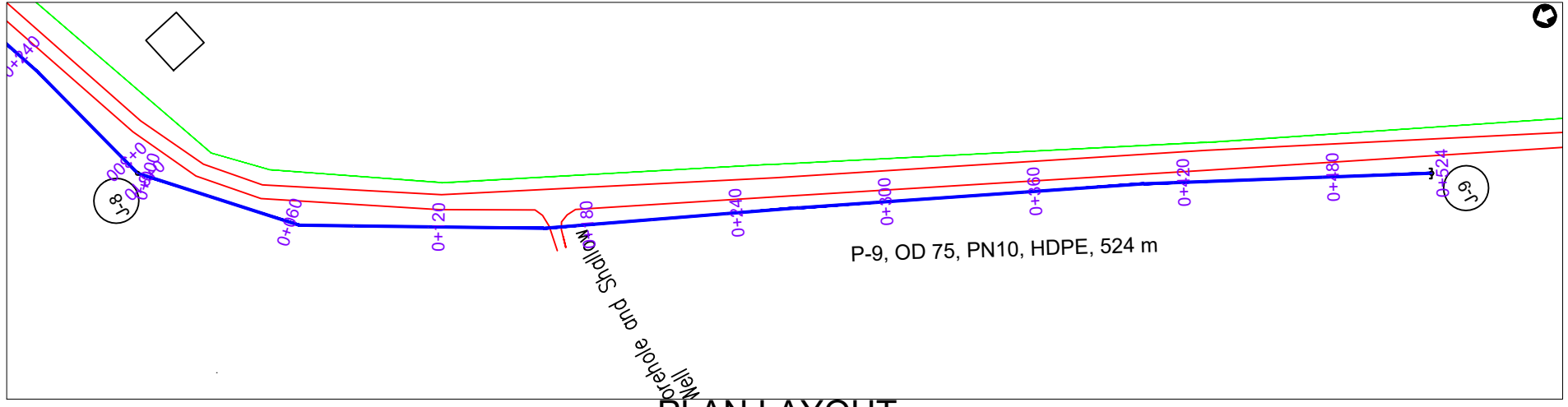
CONSULTANT:



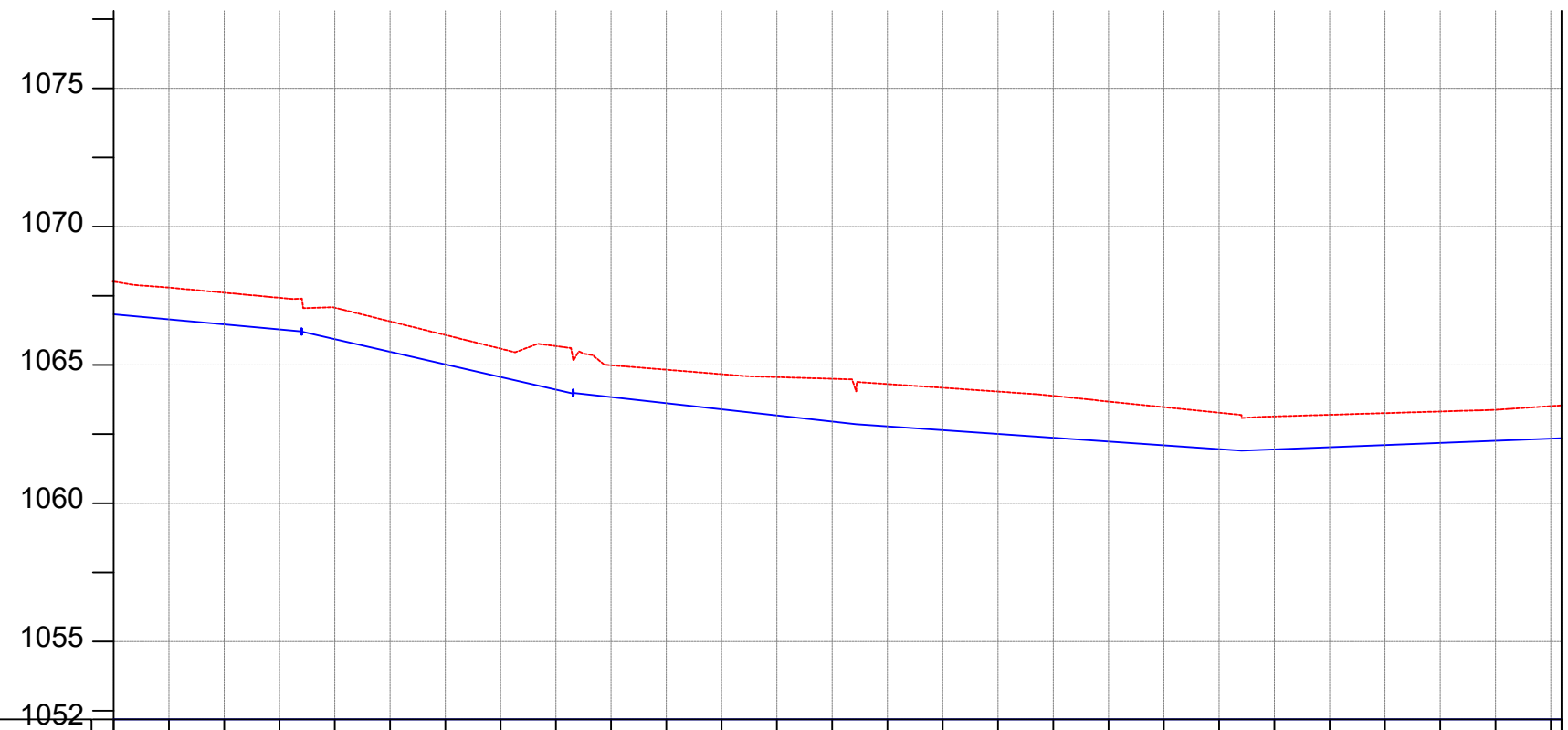
Drawing Title:

BUTALEJA TOWN
DL-23 (CH 0+000.00 - 0+310.42)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-23 (CH 0+000.00 - 0+310.42)
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+524	
GROUND LEVEL(m)	1068.015	1067.799	1067.614	1067.430	1067.071	1066.578	1066.084	1065.590	1065.682	1064.990	1064.829	1064.667	1064.561	1064.501	1064.311	1064.175	1064.039	1063.882	1063.678	1063.475	1063.272	1063.138	1063.198	1063.258	1063.317	1063.377	1063.538	
PIPE DETAILS	P-9, OD 75, PN10, HDPE, 524 m																											
PIPE INVERT(m)	1066.915	1066.699	1066.514	1066.330	1065.971	1065.478	1064.984	1064.490	1064.582	1063.890	1063.729	1063.567	1063.461	1063.401	1063.211	1063.075	1062.939	1062.782	1062.578	1062.375	1062.172	1062.038	1062.098	1062.158	1062.217	1062.277	1062.438	

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, BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:

BUTALEJA TOWN

DL-24 (CH 0+000.00 - 0+523.86)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL-24 (CH 0+000.00 - 0+523.86)
Sheet No.: 1	Format: A3