

REPUBLIC OF UGANDA



**VOLUME 4-1: BOOK OF DRAWINGS
(TIRINYI DISTRIBUTION)**

INTEGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP)

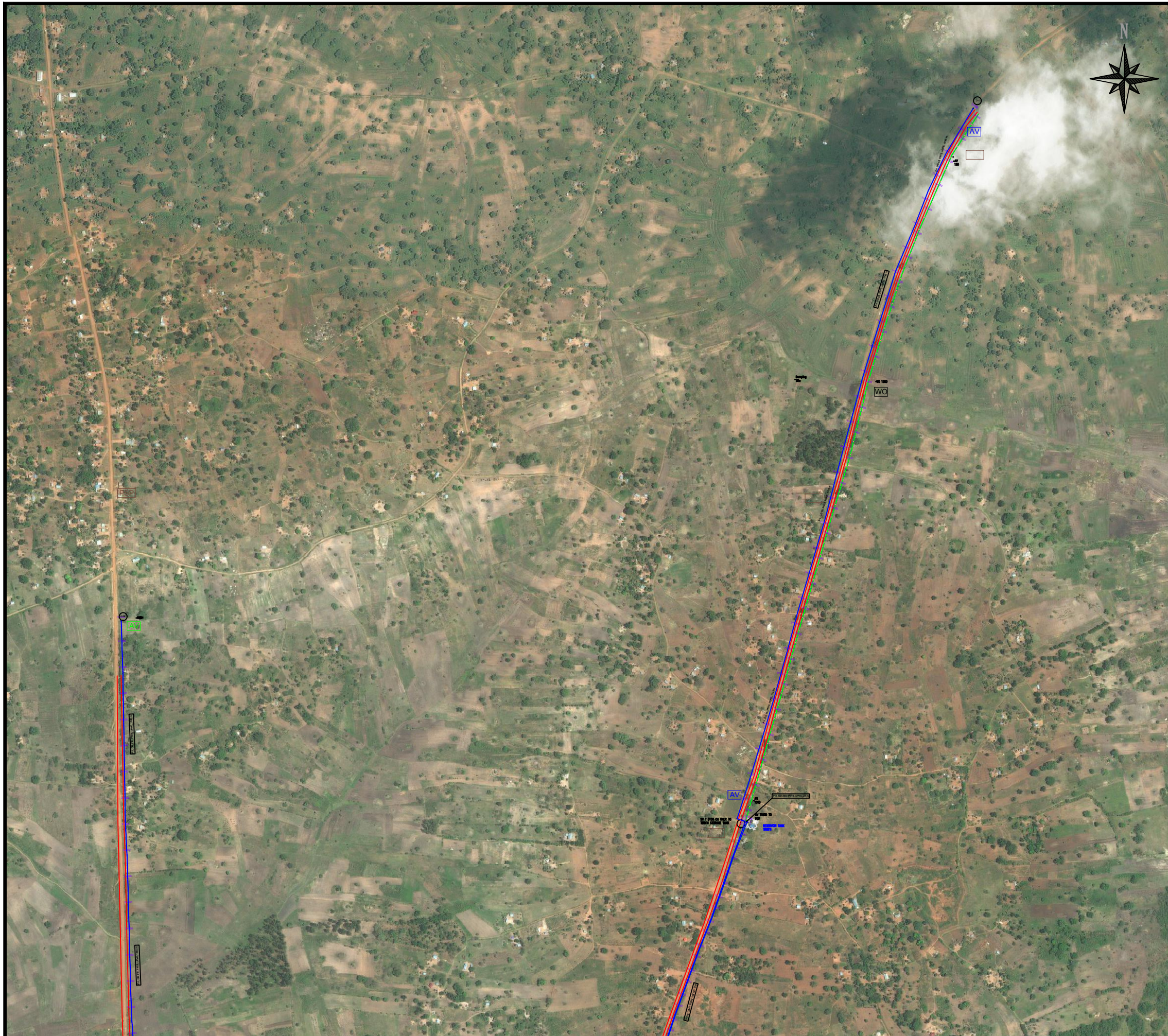
**CONSTRUCTION OF TIRINYI, KIBUKU, KADAMA AND BUDAKA WATER
SUPPLY AND SANITATION SYSTEM**

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:
TIRINYI 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-005	
Sheet No.: 1/5	Format: A3



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

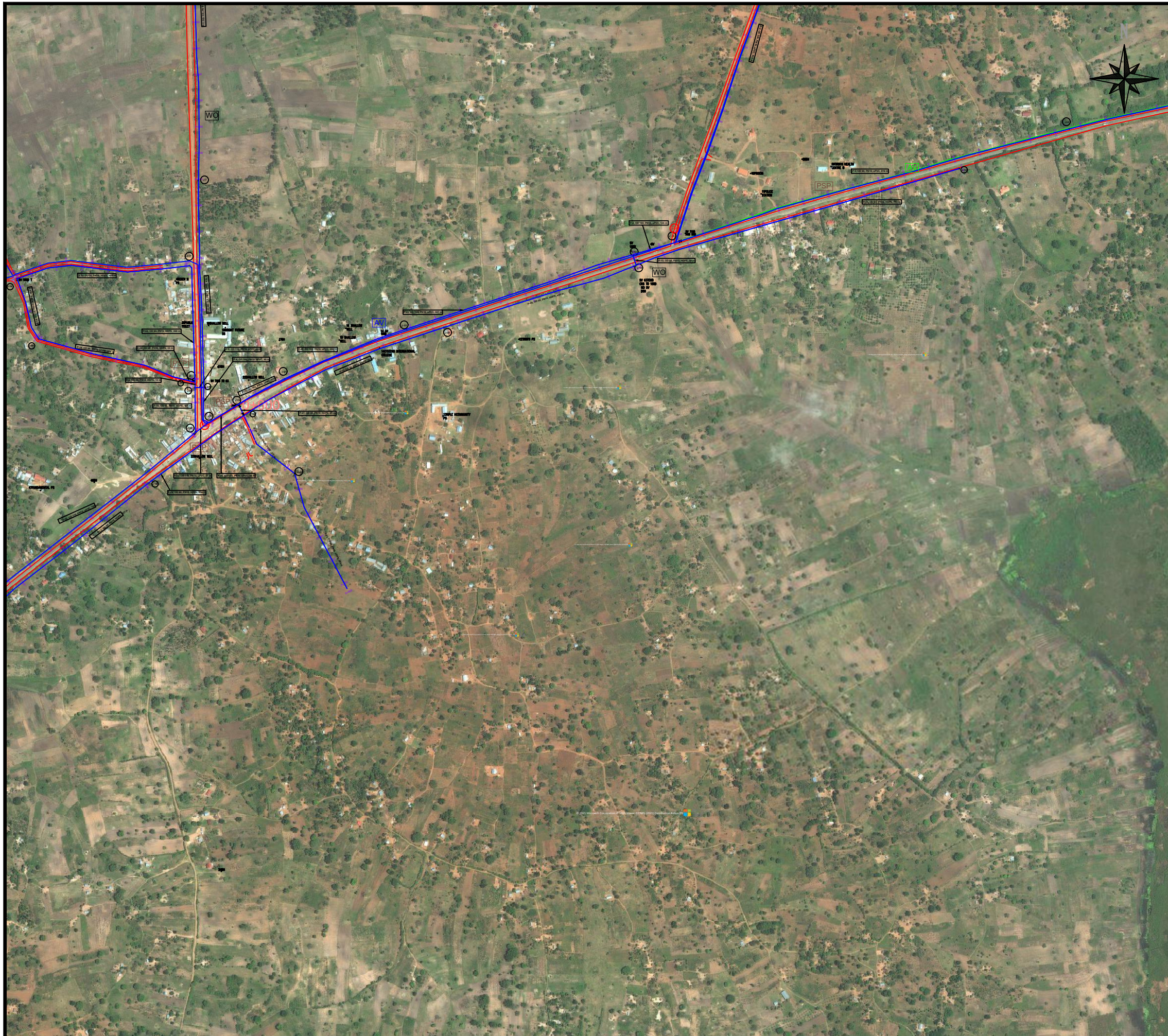
MINISTRY OF WATER AND ENVIRONMENT

PROJECT:
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CONSULTANT:

Drawing Title:
TIRINYI DISTRIBUTION NETWORK

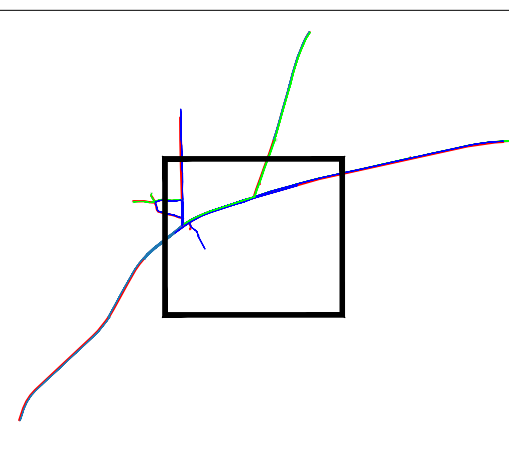
Drawn by : Andrew Turyakira	Approved by:
Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/ 8-L-005	
Sheet No.: 2/5	Format: A3



LEGEND

LEGEND	
	Existing pipes
	New pipes
	Replacement pipes
	Replacement A C pipes
	Roads
	Fences
	Pressure Zones
	Rivers
	Sewer Lines
	Houses
	Junctions
	Air Valves
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	Land Marks

KEY MAP



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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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CONSULTANT:

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Sheet No.: 4/5	Format: A3



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

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PROJECT:

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

CONSULTANT:

saman
 Saman Corp.

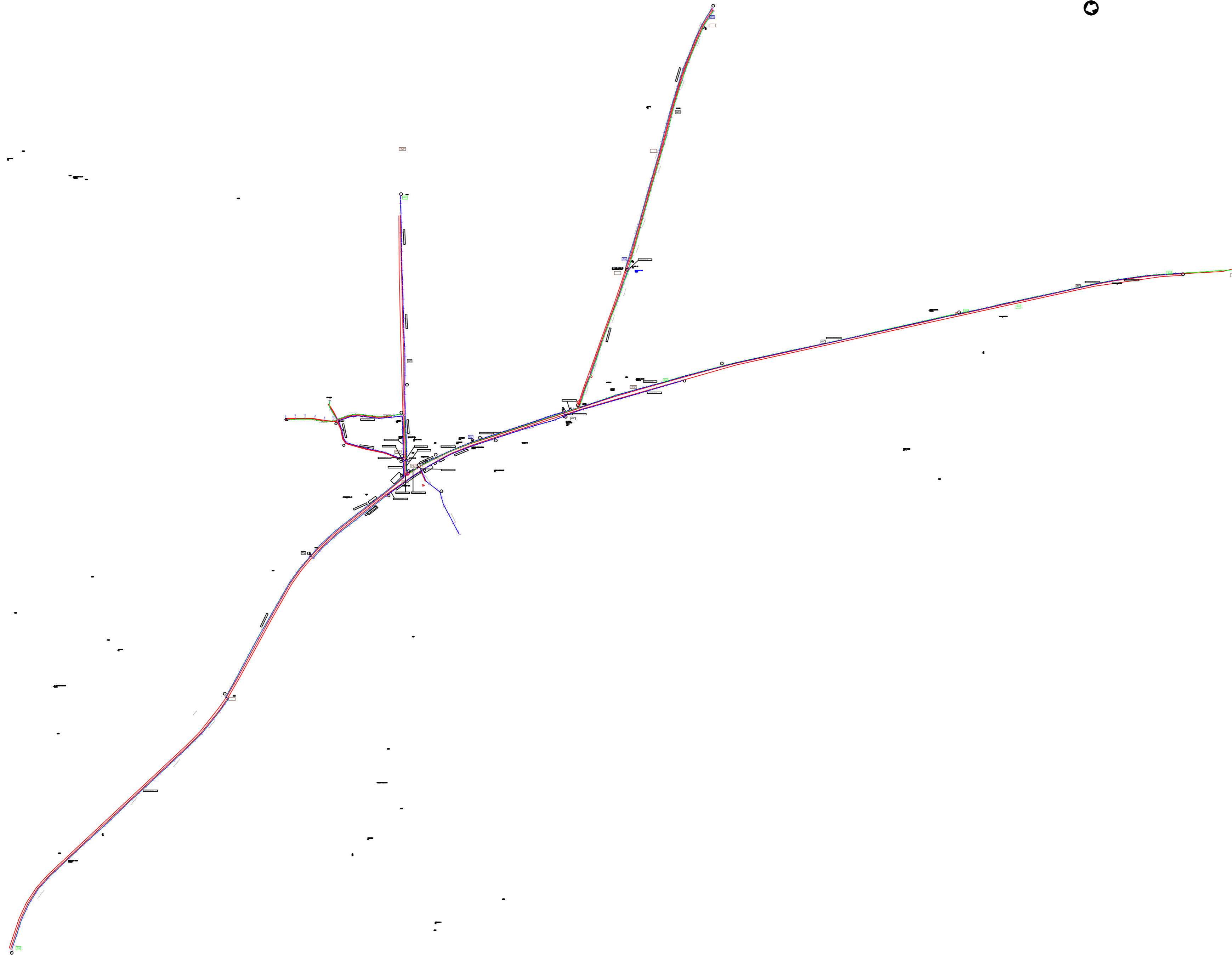
CHEIL
 ENGINEERS

AWE
 Engineers

Drawing Title:

TIRINYI DISTRIBUTION NETWORK

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Checked by: Dr. Ronald Musenze	Dongwoon OH
Scale: As Indicated	Date: December 2021
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Sheet No.: 5/5	Format: A3








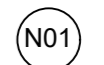
AMENDMENTS

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

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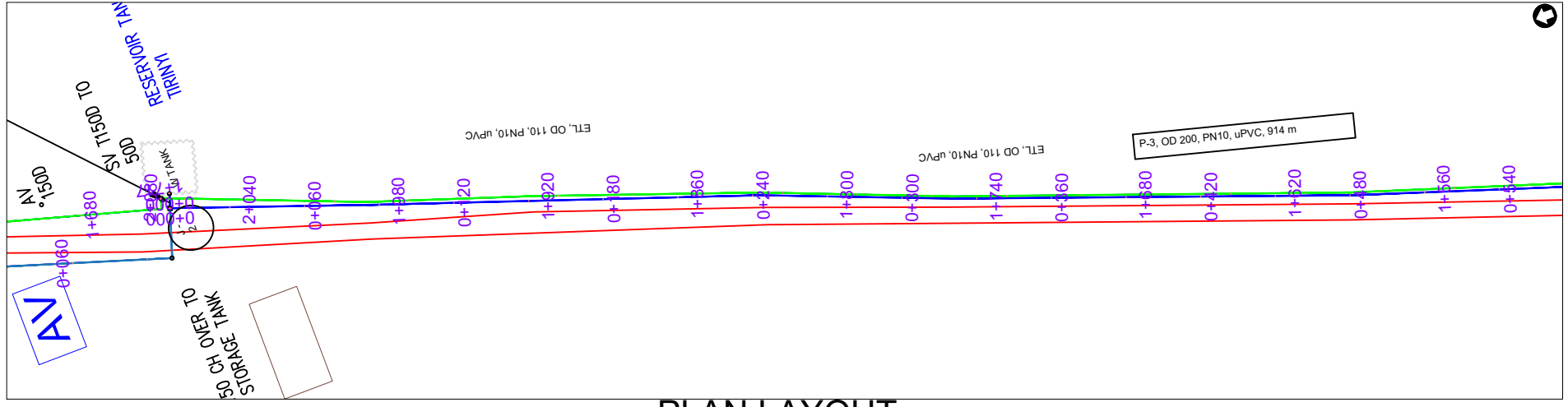
CONSULTANT:



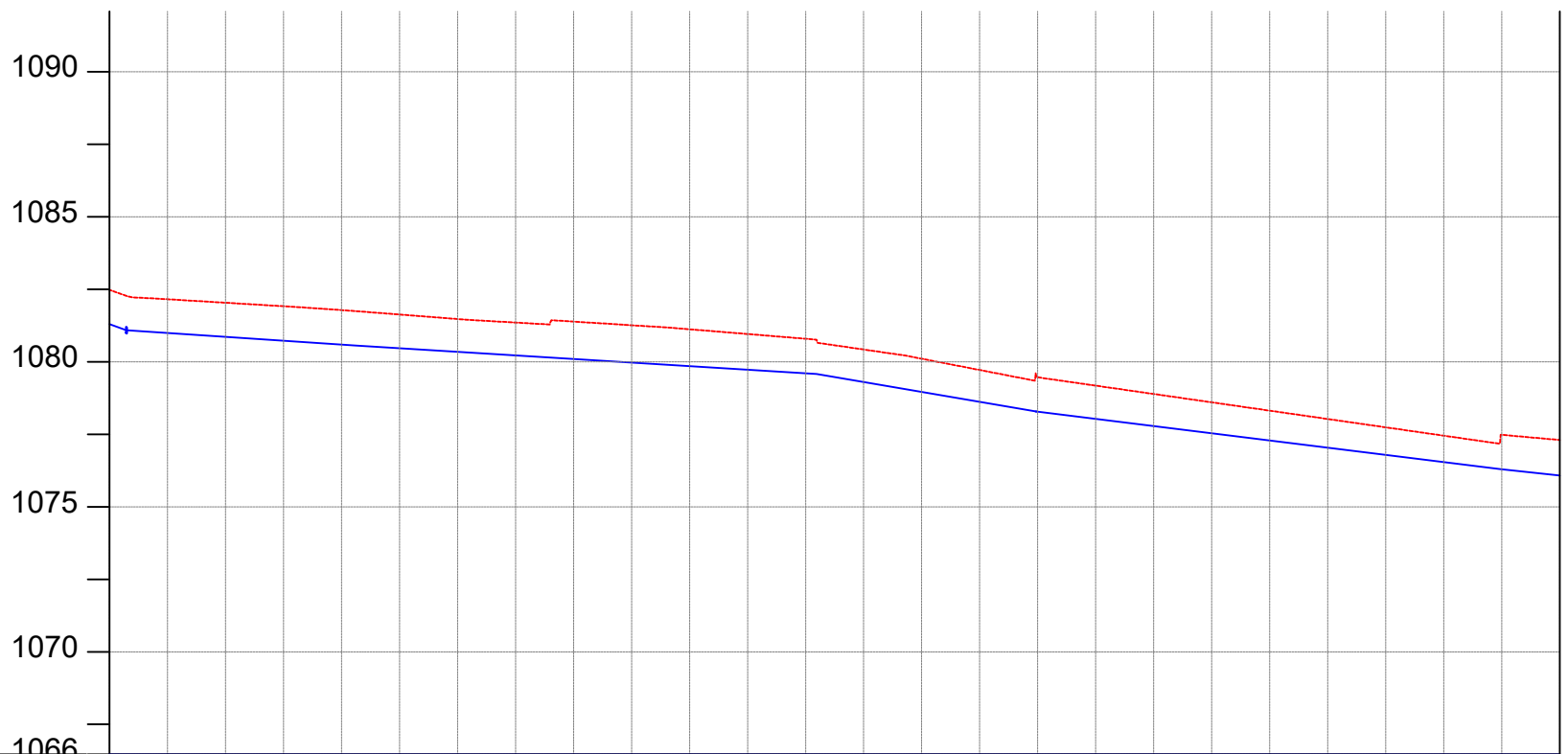
Drawing Title:

**TIRINYI TOWN
GENERAL LAYOUT**

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/S/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)	1082.482	1082.156	1082.036	1081.916	1081.781	1081.629	1081.474	1081.353	1081.385	1081.260	1081.120	1080.957	1080.794	1080.424	1080.105	1079.717	1079.465	1079.178	1078.890	1078.602	1078.315	1078.027	1077.740	1077.452	1077.481	1077.303		
PIPE DETAILS	P-2,3, OD 200, PN10, uPVC																											
PIPE INVERT(m)	1081.382	1081.056	1080.936	1080.816	1080.681	1080.529	1080.374	1080.253	1080.285	1080.160	1080.020	1079.857	1079.694	1079.324	1079.005	1078.617	1078.365	1078.078	1077.790	1077.502	1077.215	1076.927	1076.640	1076.352	1076.381	1076.203		

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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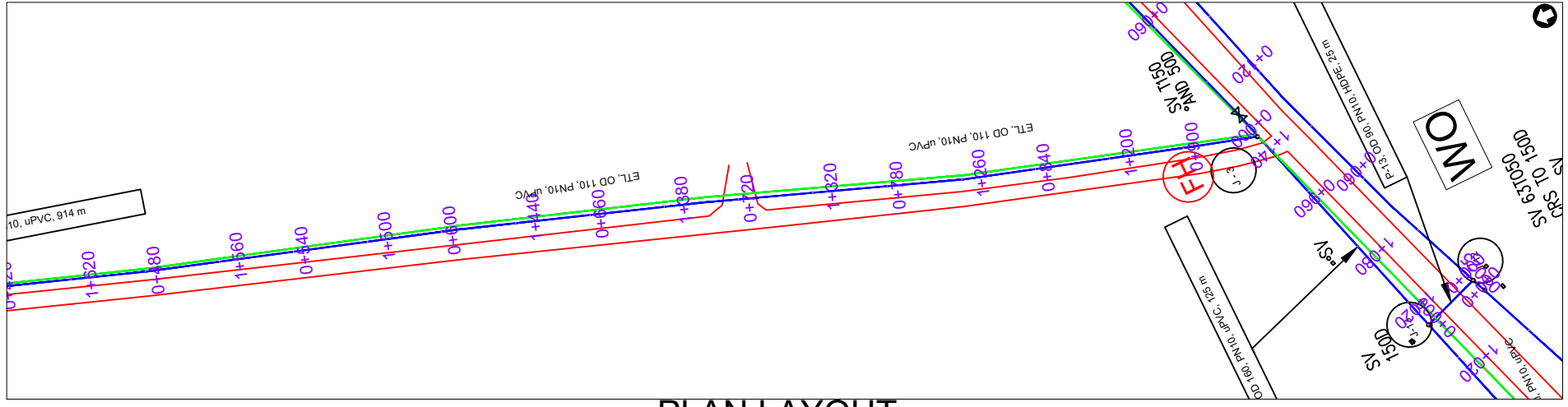
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PROJECT:
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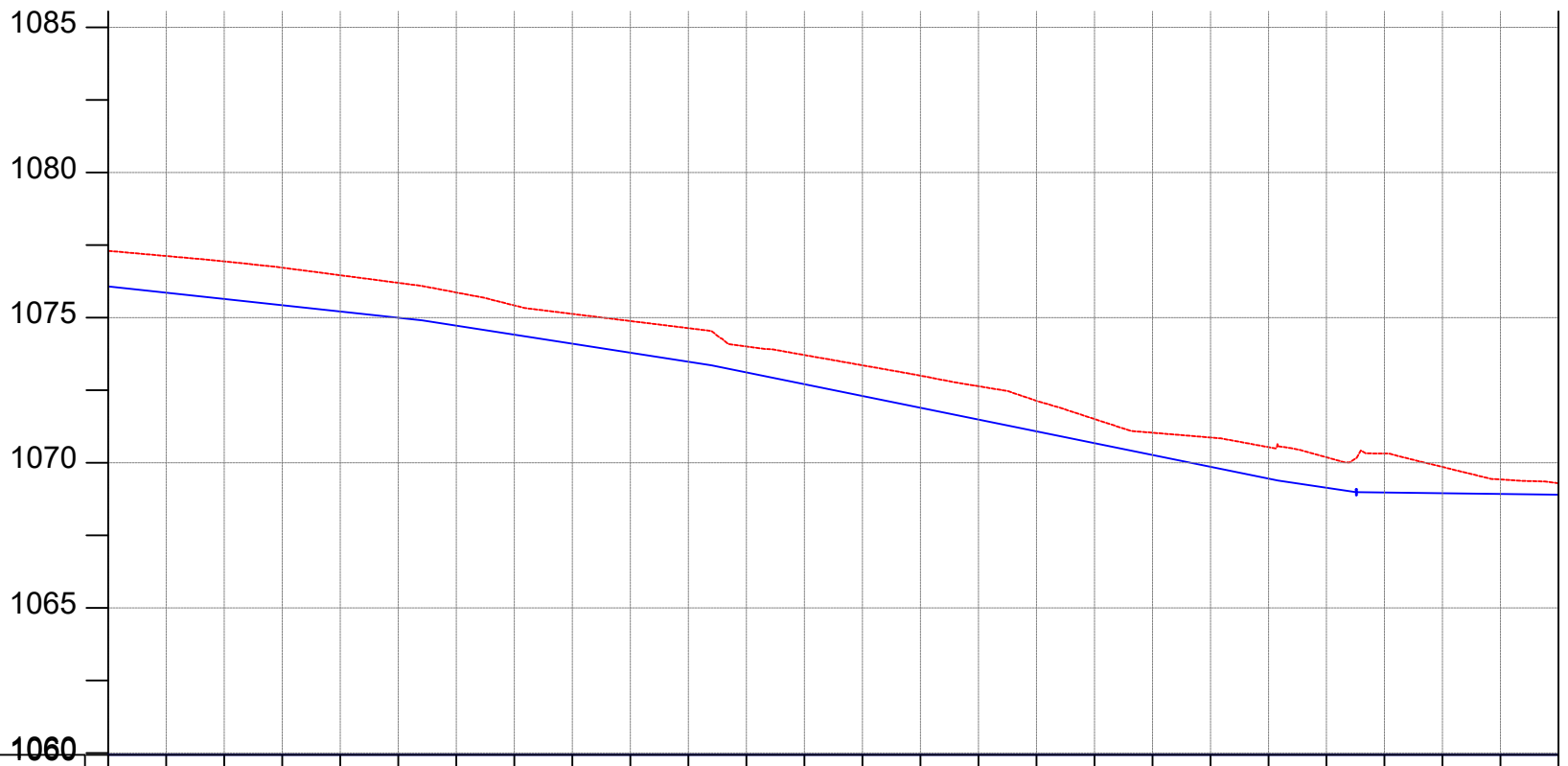
CONSULTANT:

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

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 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)	1077.303	1077.125	1076.939	1076.723	1076.462	1076.200	1075.868	1075.422	1075.130	1074.884	1074.638	1074.009	1073.713	1073.359	1073.003	1072.638	1072.136	1071.508	1071.036	1070.871	1070.539	1070.189	1070.319	1069.856	1069.425	1069.297
PIPE DETAILS	P-3, OD 200, PN10, uPVC														OD 160, PN10, uPVC											
PIPE INVERT(m)	1076.203	1076.025	1075.839	1075.623	1075.362	1075.100	1074.768	1074.322	1074.030	1073.784	1073.538	1072.909	1072.613	1072.259	1071.903	1071.538	1071.036	1070.408	1069.936	1069.771	1069.439	1069.089	1069.219	1068.756	1068.325	1068.197

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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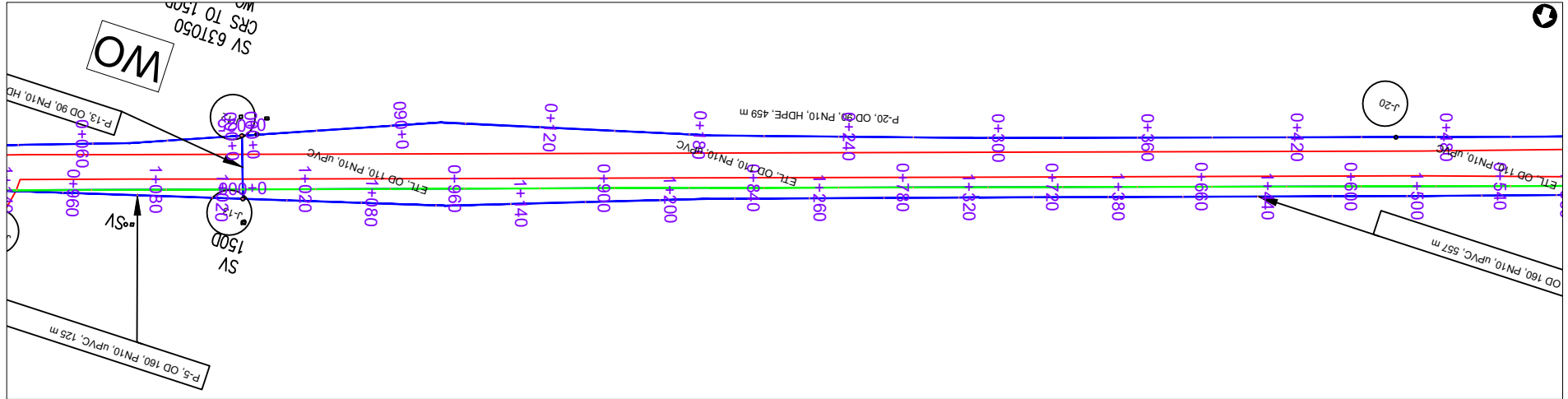
MINISTRY OF WATER AND ENVIRONMENT

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

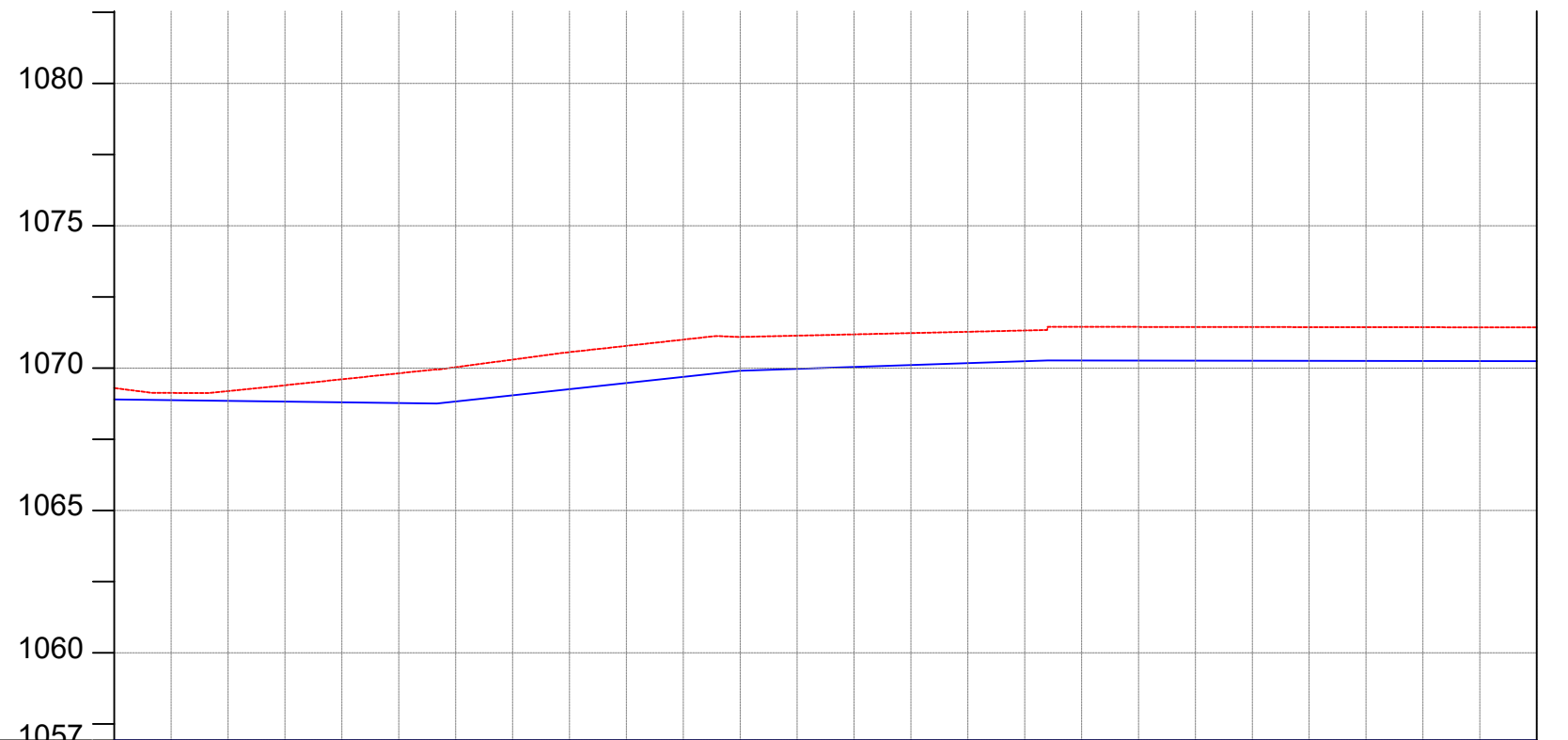
CONSULTANT:

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

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
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+200	1+240	1+280	1+320	1+360	1+400	1+440	1+480	1+500														
GROUND LEVEL(m)	1069.297	1069.128	1069.194	1069.396	1069.606	1069.817	1070.029	1070.298	1070.560	1070.780	1071.000	1071.093	1071.139	1071.184	1071.230	1071.275	1071.320	1071.449	1071.446	1071.444	1071.441	1071.439	1071.437	1071.434	1071.432	1071.430	1071.430	
PIPE DETAILS	OD 160, PN10, uPVC																											
PIPE INVERT(m)	1068.197	1068.028	1068.094	1068.296	1068.506	1068.717	1068.929	1069.198	1069.460	1069.680	1069.900	1069.993	1070.039	1070.084	1070.130	1070.175	1070.220	1070.349	1070.346	1070.344	1070.341	1070.339	1070.337	1070.334	1070.332	1070.330	1070.330	

AMENDMENTS		
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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

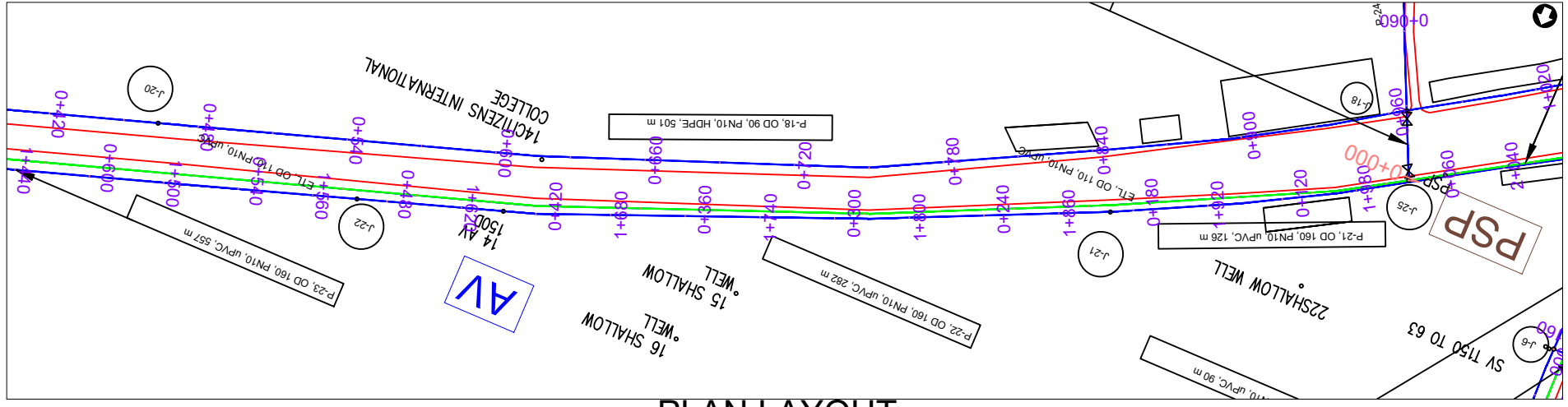
MINISTRY OF WATER AND ENVIRONMENT

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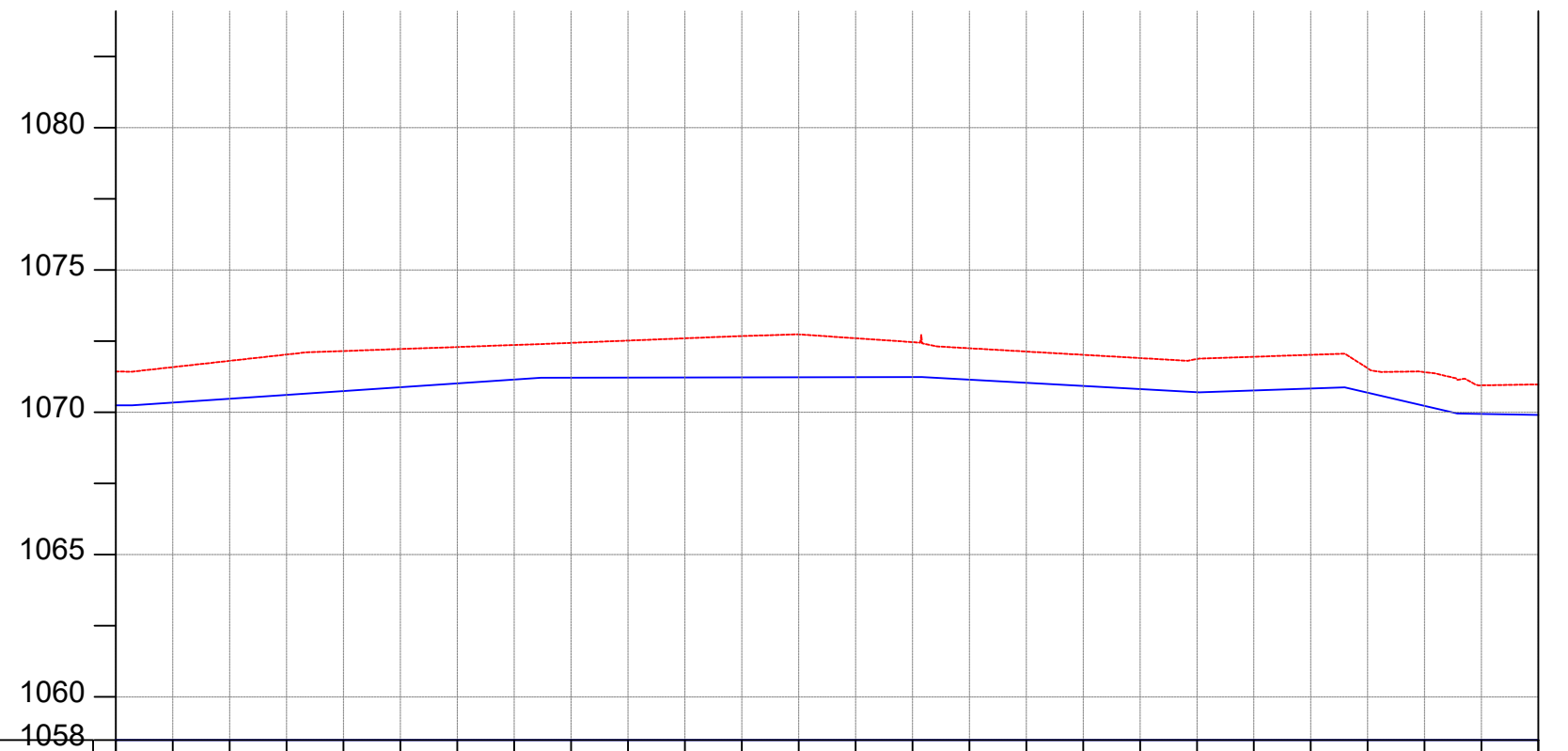
CONSULTANT:

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

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_1 (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	2+000														
GROUND LEVEL(m)	1071.430	1071.587	1071.808	1072.030	1072.153	1072.224	1072.294	1072.364	1072.440	1072.520	1072.600	1072.679	1072.739	1072.602	1072.466	1072.250	1072.135	1072.020	1071.905	1071.873	1071.952	1072.019	1071.546	1071.410	1070.948	1070.978	2+000	
PIPE DETAILS	OD 160, PN10, uPVC																											
PIPE INVERT(m)	1070.330	1070.487	1070.708	1070.930	1071.053	1071.124	1071.194	1071.264	1071.340	1071.420	1071.500	1071.579	1071.639	1071.502	1071.366	1071.150	1071.035	1070.920	1070.805	1070.773	1070.852	1070.919	1070.446	1070.310	1069.848	1069.878	2+000	

AMENDMENTS

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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

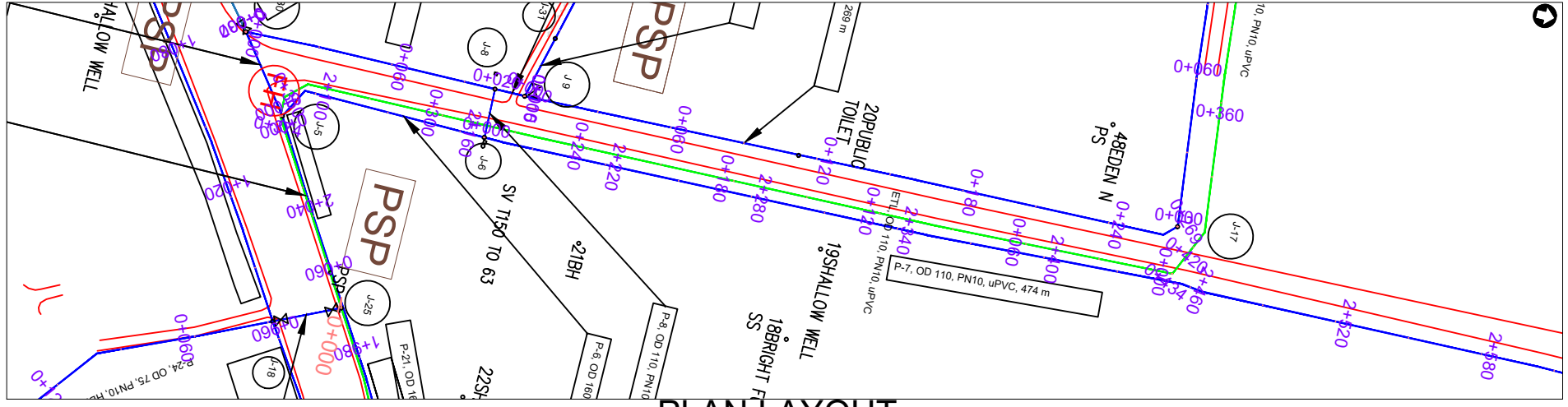
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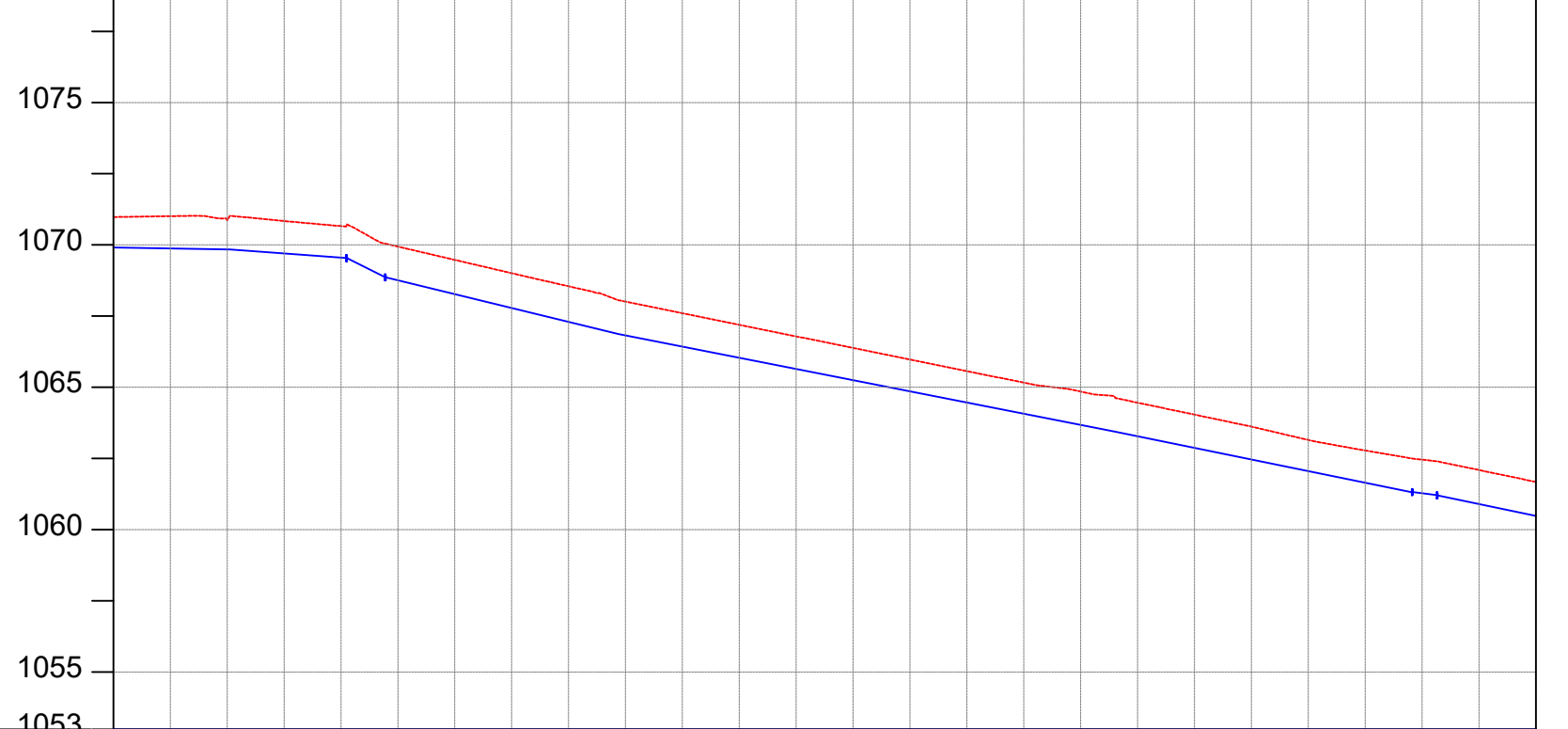
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_1 (CH 1+500.00 - 2+000.00)

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Checked by: Dr. Ronald Musenze	Date: DEC 2021
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Drawing No.: IWMDP/MBA/DL_1 (CH 1+500.00 - 2+000.00)	
Sheet No.: 4	Format: A3



PLAN LAYOUT



CHAINAGE	2+000		2+040		2+080		2+120		2+160		2+200		2+240		2+280		2+320		2+360		2+400		2+440		2+480		2+500
GROUND LEVEL(m)	1070.978	1071.009	1070.867	1070.840	1070.660	1069.941	1069.474	1069.007	1068.548	1068.007	1067.601	1067.195	1066.788	1066.382	1065.975	1065.569	1065.163	1064.850	1064.460	1064.040	1063.620	1063.150	1062.781	1062.459	1062.095	1061.678	1061.250
PIPE DETAILS	OD 160, PN10, uPVC														OD 110, PN10, uPVC												
PIPE INVERT(m)	1069.878	1069.909	1069.767	1069.740	1069.560	1068.841	1068.374	1067.907	1067.448	1066.907	1066.501	1066.095	1065.688	1065.282	1064.875	1064.469	1064.063	1063.750	1063.360	1062.940	1062.520	1062.050	1061.681	1061.359	1060.995	1060.578	1060.150

AMENDMENTS		
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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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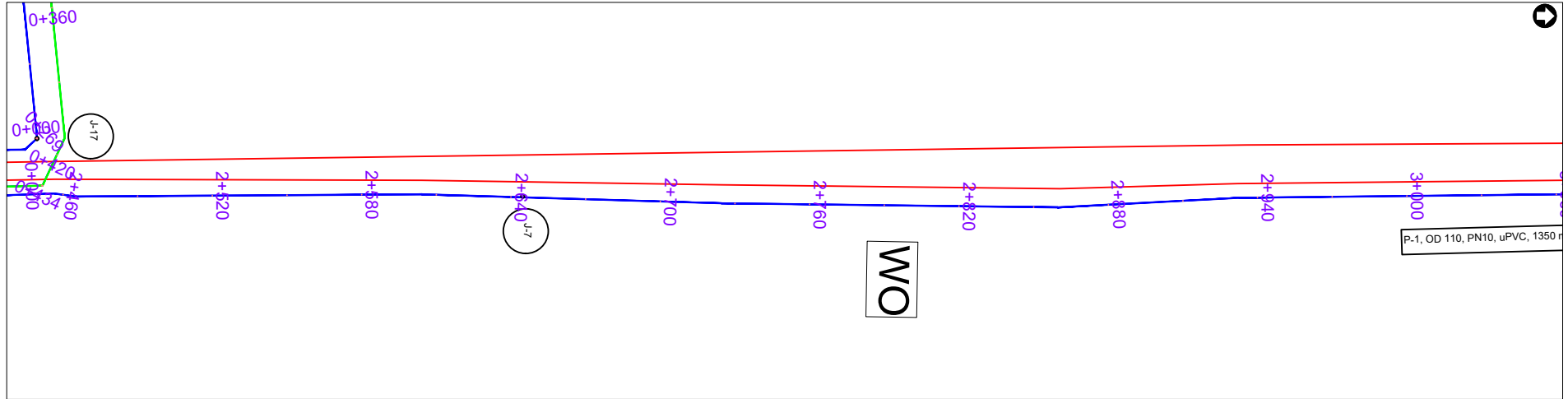
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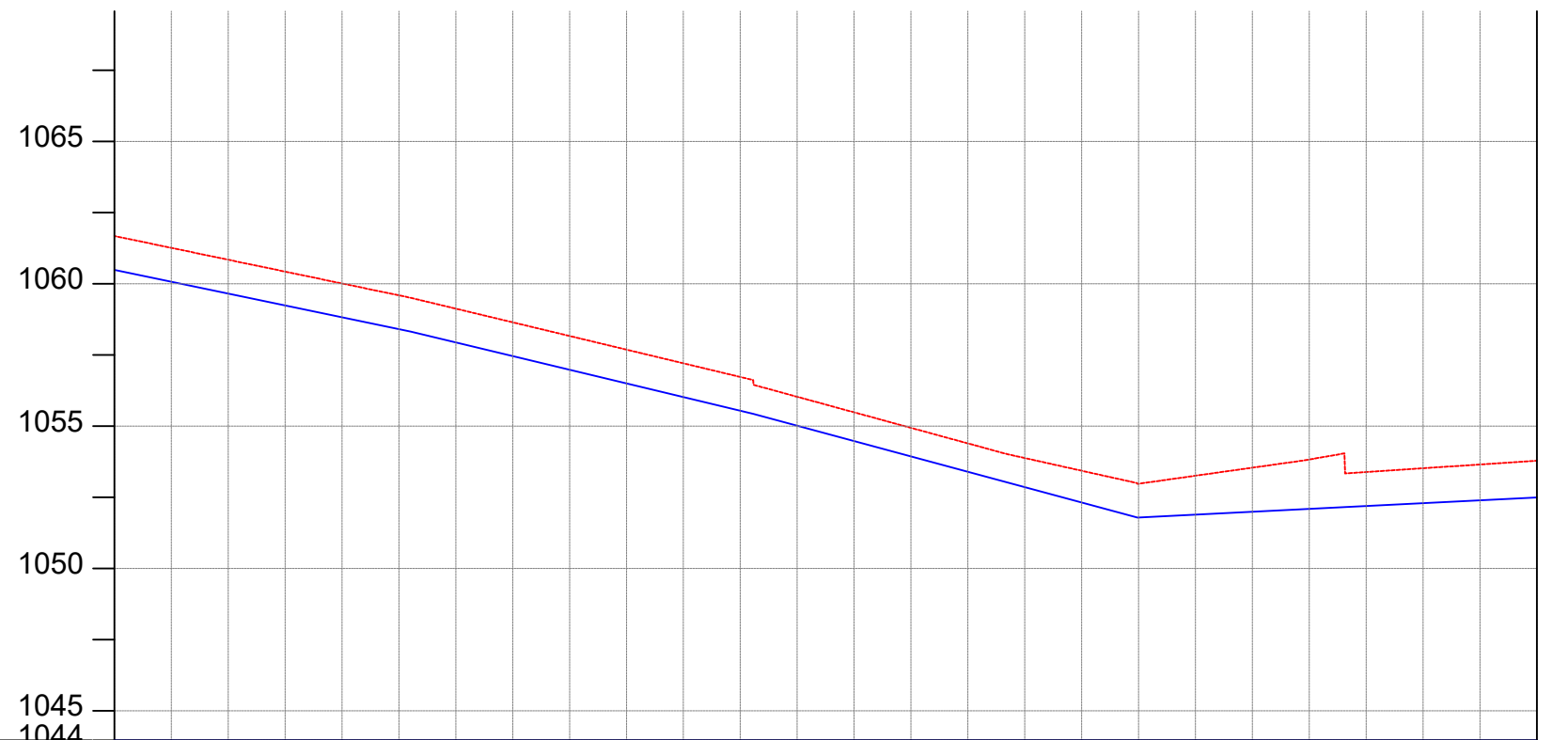
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_1 (CH 2+000.00 - 2+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
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Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_1 (CH 2+000.00 - 2+500.00)
Sheet No.: 5	Format: A3



PLAN LAYOUT



CHAINAGE	2+500	2+520	2+560	2+600	2+640	2+680	2+720	2+760	2+800	2+840	2+880	2+920	2+960	3+000												
GROUND LEVEL(m)	1061.678	1061.261	1060.844	1060.427	1060.010	1059.593	1059.126	1058.646	1058.166	1057.685	1057.205	1056.725	1056.029	1055.484	1054.938	1054.392	1053.877	1053.431	1052.974	1053.256	1053.539	1053.827	1053.386	1053.519	1053.651	1053.784
PIPE DETAILS	OD 110, PN10, uPVC																									
PIPE INVERT(m)	1060.578	1060.161	1059.744	1059.327	1058.910	1058.493	1058.026	1057.546	1057.066	1056.585	1056.105	1055.625	1054.929	1054.384	1053.838	1053.292	1052.777	1052.331	1051.874	1052.156	1052.439	1052.727	1052.286	1052.419	1052.551	1052.684

AMENDMENTS

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

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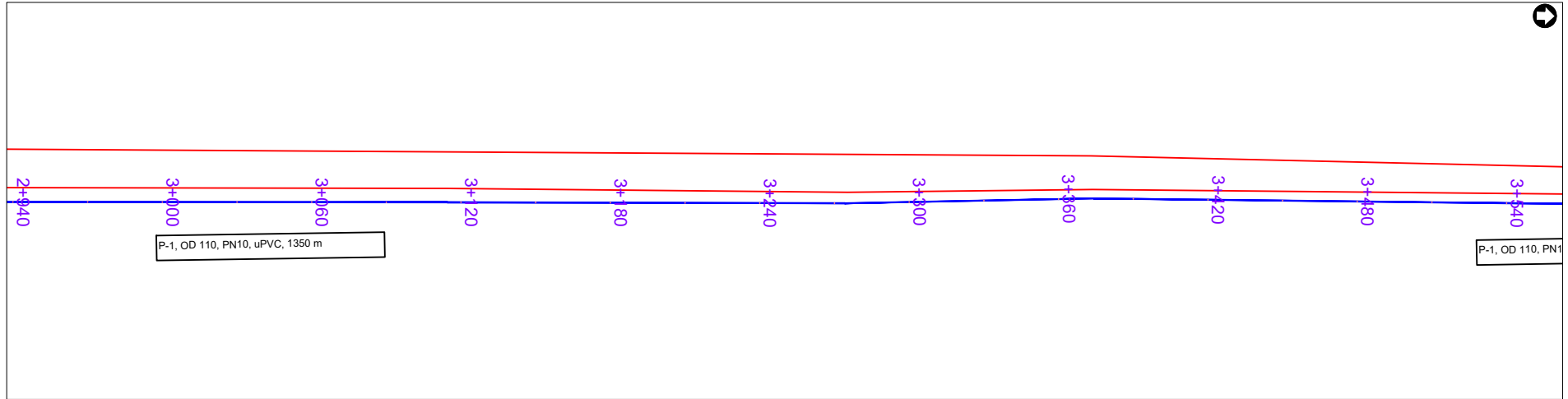
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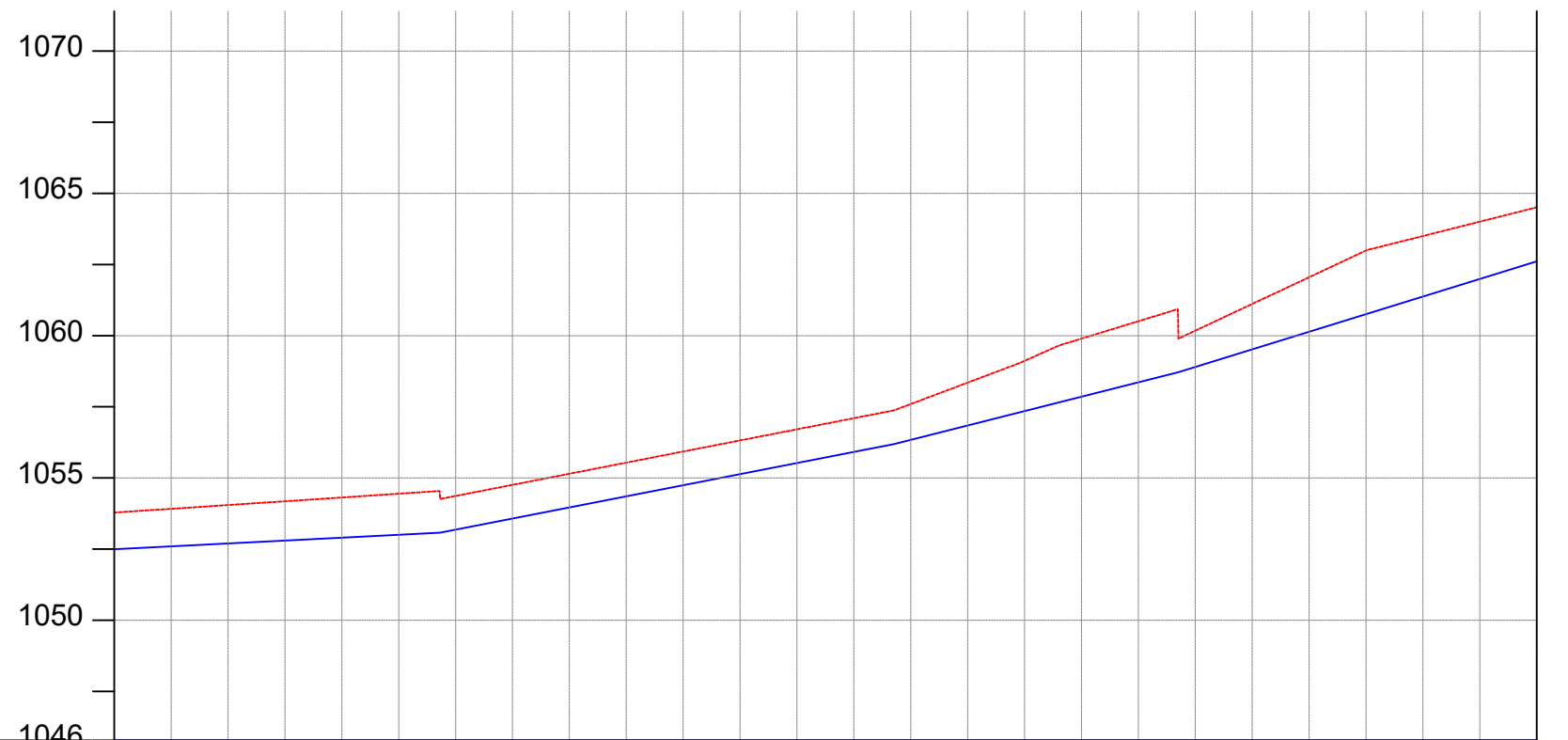
CONSULTANT:

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DL_1 (CH 2+500.00 - 3+000.00)

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Sheet No.: 6	Format: A3



PLAN LAYOUT



CHAINAGE	3+000	3+040	3+080	3+120	3+160	3+200	3+240	3+280	3+320	3+360	3+400	3+440	3+480	3+500												
GROUND LEVEL(m)	1053.784	1053.917	1054.049	1054.182	1054.314	1054.447	1054.368	1054.758	1055.149	1055.539	1055.929	1056.320	1056.710	1057.100	1057.597	1058.350	1059.115	1059.895	1060.507	1060.174	1061.113	1062.052	1062.991	1063.499	1064.003	1064.507
PIPE DETAILS	OD 110, PN10, uPVC																									
PIPE INVERT(m)	1052.684	1052.817	1052.949	1053.082	1053.214	1053.347	1053.268	1053.658	1054.049	1054.439	1054.829	1055.220	1055.610	1056.000	1056.497	1057.250	1058.015	1058.795	1059.407	1059.074	1060.013	1060.952	1061.891	1062.399	1062.903	1063.407

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

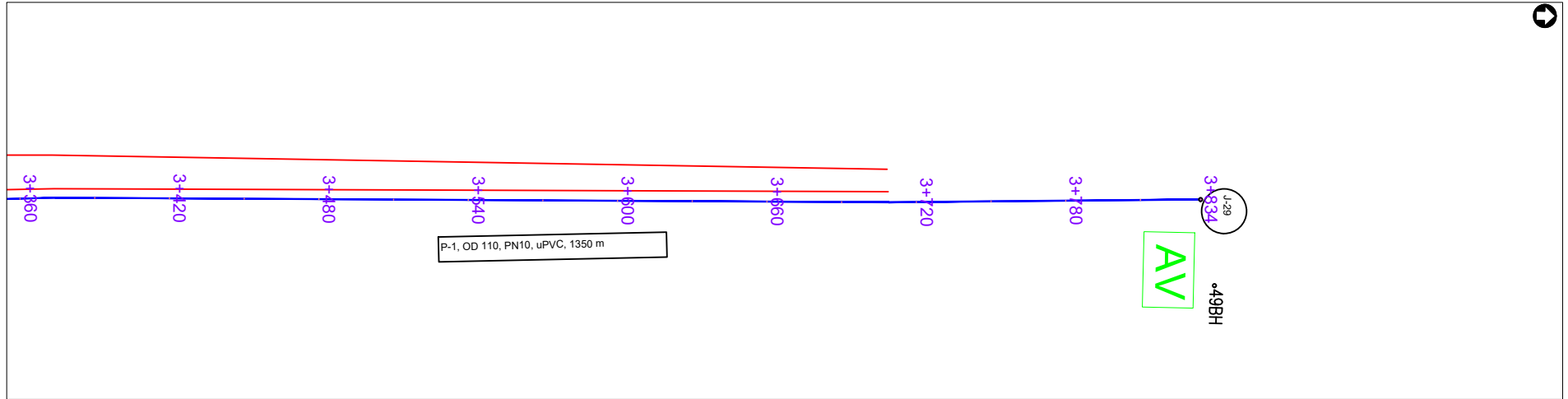
MINISTRY OF WATER AND ENVIRONMENT

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

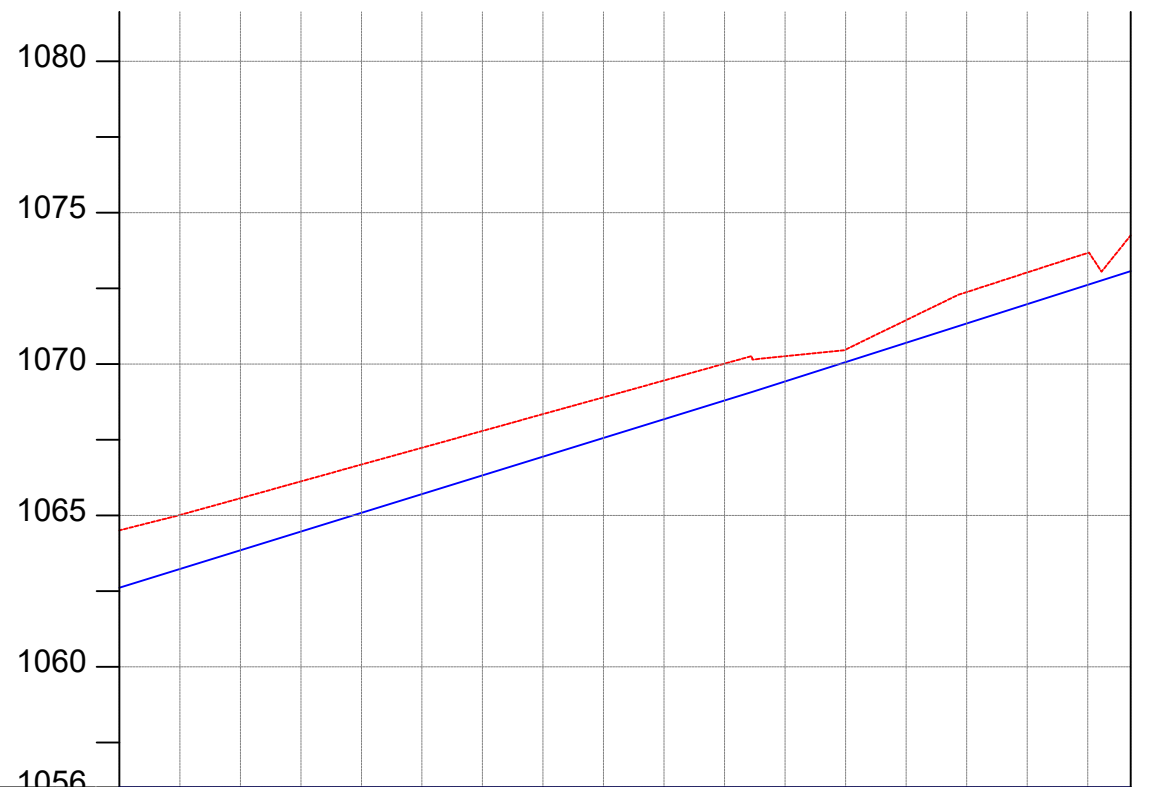
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_1 (CH 3+000.00 - 3+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_1 (CH 3+000.00 - 3+500.00)
Sheet No.: 7	Format: A3



PLAN LAYOUT



CHAINAGE	3+500	3+520	3+560	3+600	3+640	3+680	3+720	3+760	3+800	3+834							
GROUND LEVEL(m)	1064.507	1065.013	1065.569	1066.124	1066.680	1067.235	1067.791	1068.347	1068.902	1069.458	1070.013	1070.258	1070.479	1071.451	1072.378	1073.025	1073.669
PIPE DETAILS	OD 110, PN10, uPVC																
PIPE INVERT(m)	1063.407	1063.913	1064.469	1065.024	1065.580	1066.135	1066.691	1067.247	1067.802	1068.358	1068.913	1069.158	1069.379	1070.351	1071.278	1071.925	1072.569

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



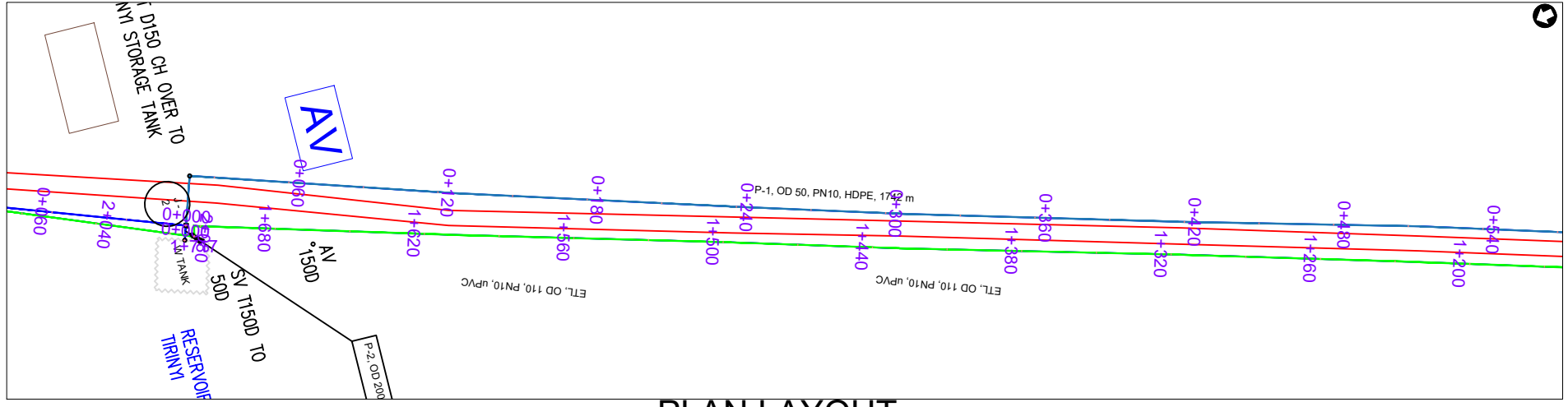
MINISTRY OF WATER AND ENVIRONMENT

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

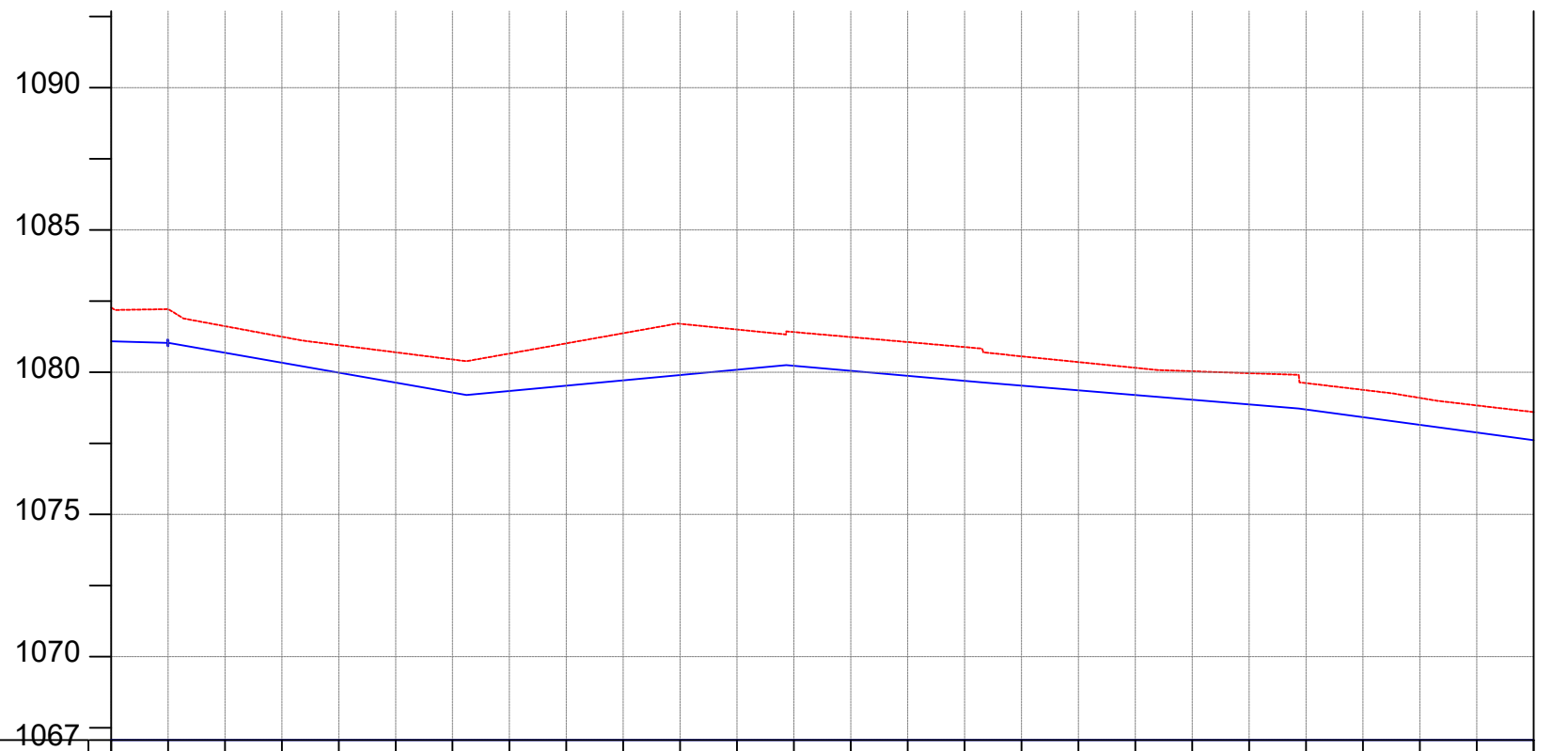
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_1 (CH 3+500.00 - 3+834.22)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_1 (CH 3+500.00 - 3+834.22)
Sheet No.: 8	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)	1082.269	1082.215	1081.616	1081.245	1080.951	1080.699	1080.447	1080.655	1081.012	1081.369	1081.698	1081.497	1081.409	1081.234	1081.058	1080.883	1080.559	1080.357	1080.155	1080.032	1079.964	1079.615	1079.378	1079.096	1078.832	1078.598	1077.498
PIPE DETAILS	P-1, OD 50, PN10, HDPE, 1742 m																										
PIPE INVERT(m)	1081.169	1081.115	1080.516	1080.145	1079.851	1079.599	1079.347	1079.555	1079.912	1080.269	1080.598	1080.397	1080.309	1080.134	1079.958	1079.783	1079.459	1079.257	1079.055	1078.932	1078.864	1078.515	1078.278	1077.996	1077.732	1077.498	

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

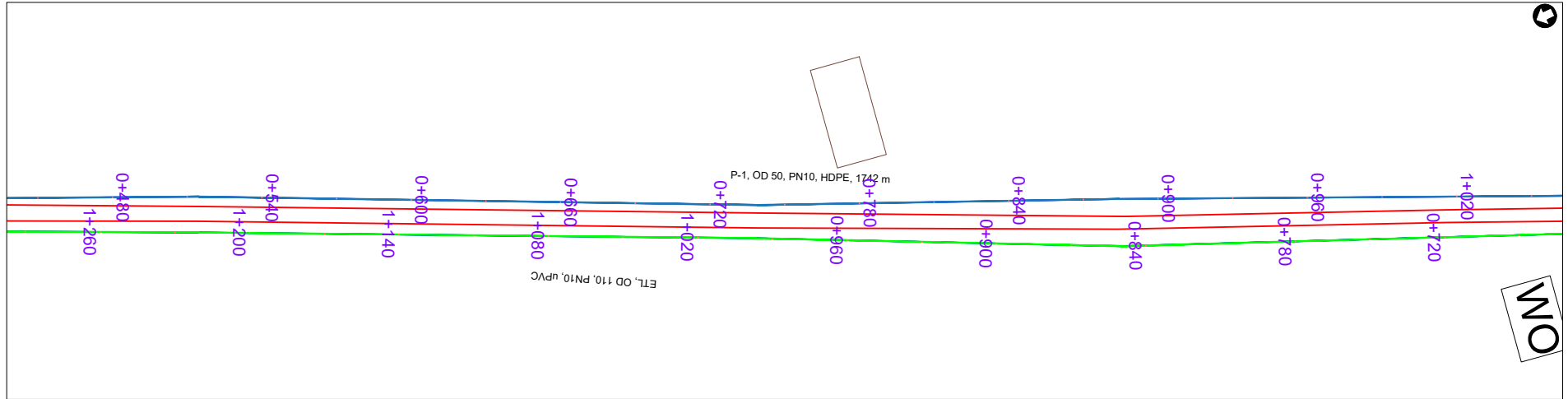
MINISTRY OF WATER AND ENVIRONMENT

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

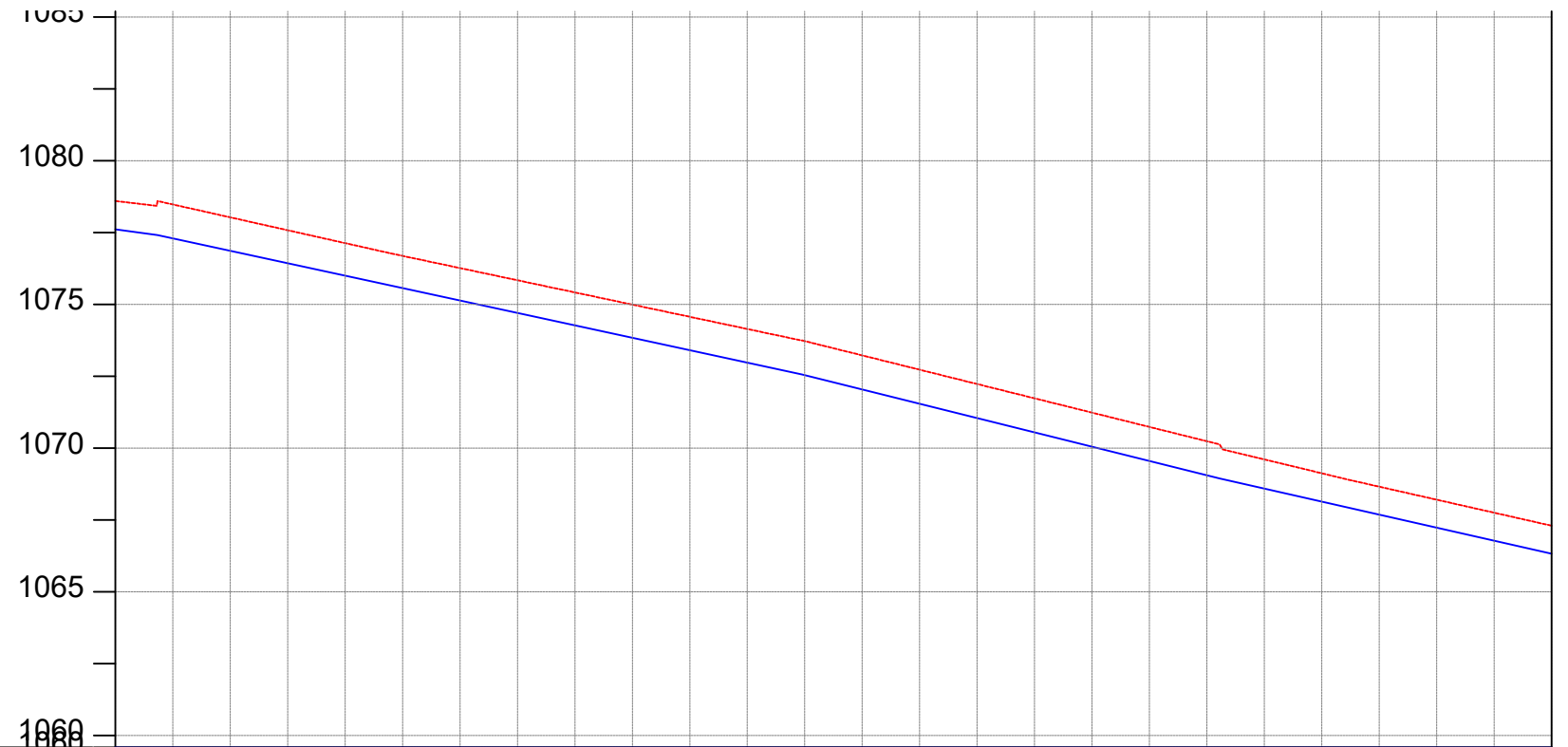
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_2 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_2 (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)	1078.598	1078.479	1078.031	1077.582	1077.133	1076.689	1076.265	1075.841	1075.417	1074.993	1074.569	1074.146	1073.724	1073.226	1072.728	1072.230	1071.732	1071.234	1070.736	1070.238	1069.606	1069.123	1068.657	1068.204	1067.751	1067.299	1+000	
PIPE DETAILS	P-1, OD 50, PN10, HDPE, 1742 m																											
PIPE INVERT(m)	1077.498	1077.379	1076.931	1076.482	1076.033	1075.589	1075.165	1074.741	1074.317	1073.893	1073.469	1073.046	1072.624	1072.126	1071.628	1071.130	1070.632	1070.134	1069.636	1069.138	1068.506	1068.023	1067.557	1067.104	1066.651	1066.199	1+000	

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

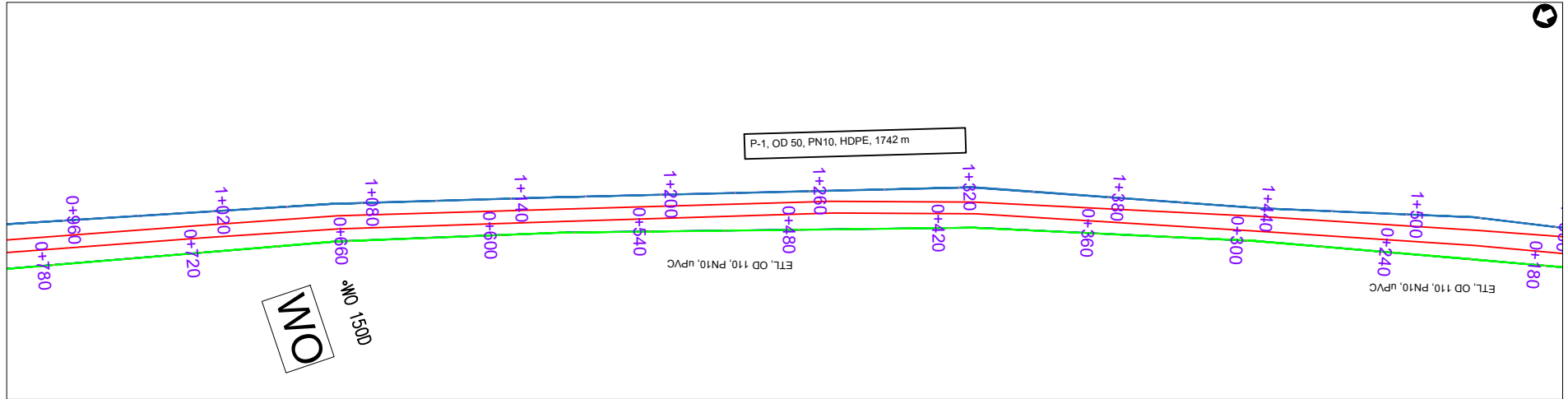
MINISTRY OF WATER AND ENVIRONMENT

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

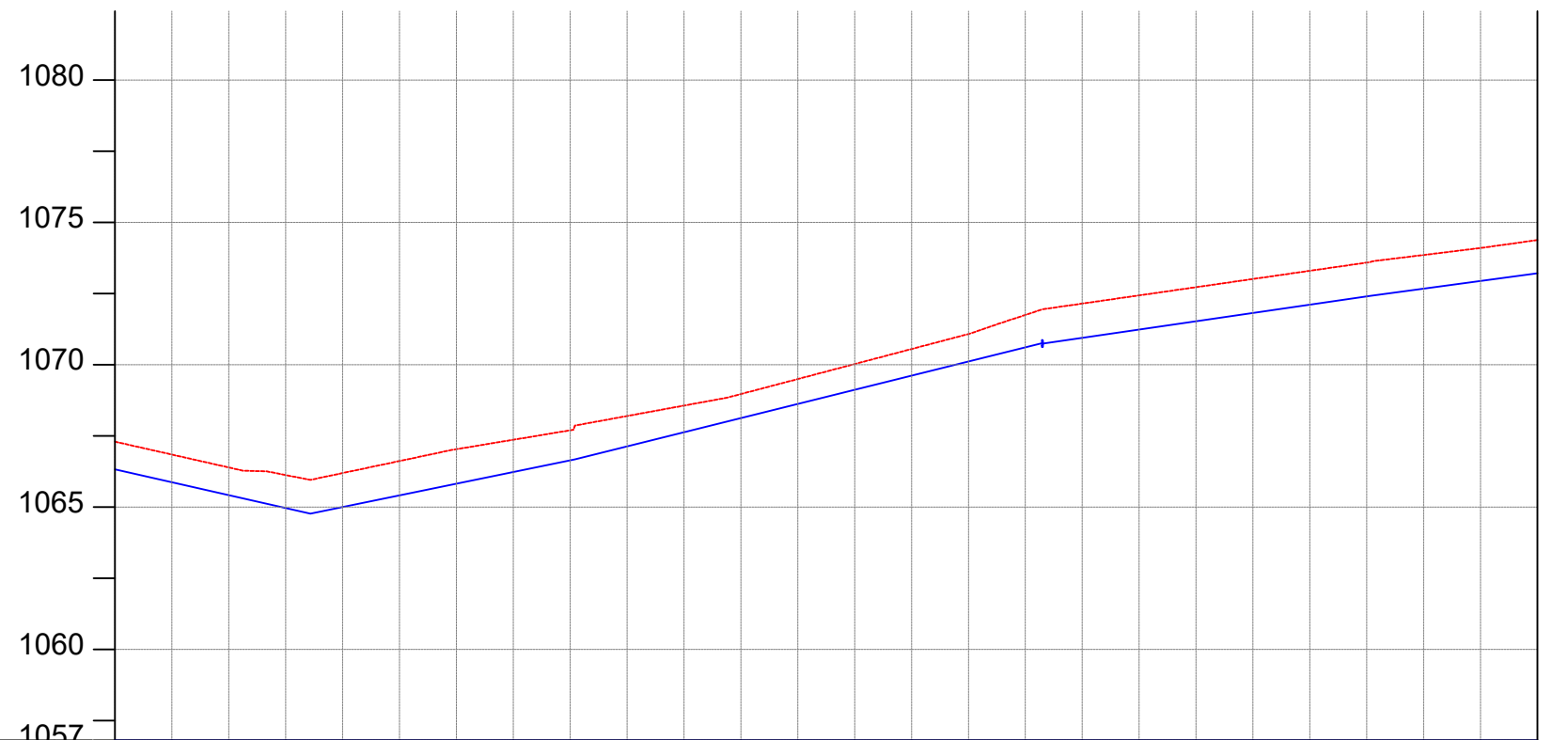
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_2 (CH 0+500.00 - 1+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_2 (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)	1067.299	1066.846	1066.393	1066.126	1066.195	1066.619	1067.034	1067.366	1067.698	1068.200	1068.566	1068.972	1069.499	1070.026	1070.553	1071.081	1071.750	1072.150	1072.438	1072.726	1073.014	1073.302	1073.590	1073.857	1074.102	1074.382
PIPE DETAILS	P-1, OD 50, PN10, HDPE, 1742 m																									
PIPE INVERT(m)	1066.199	1065.746	1065.293	1065.026	1065.095	1065.519	1065.934	1066.266	1066.598	1067.100	1067.466	1067.872	1068.399	1068.926	1069.453	1069.981	1070.650	1071.050	1071.338	1071.626	1071.914	1072.202	1072.490	1072.757	1073.002	1073.282

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

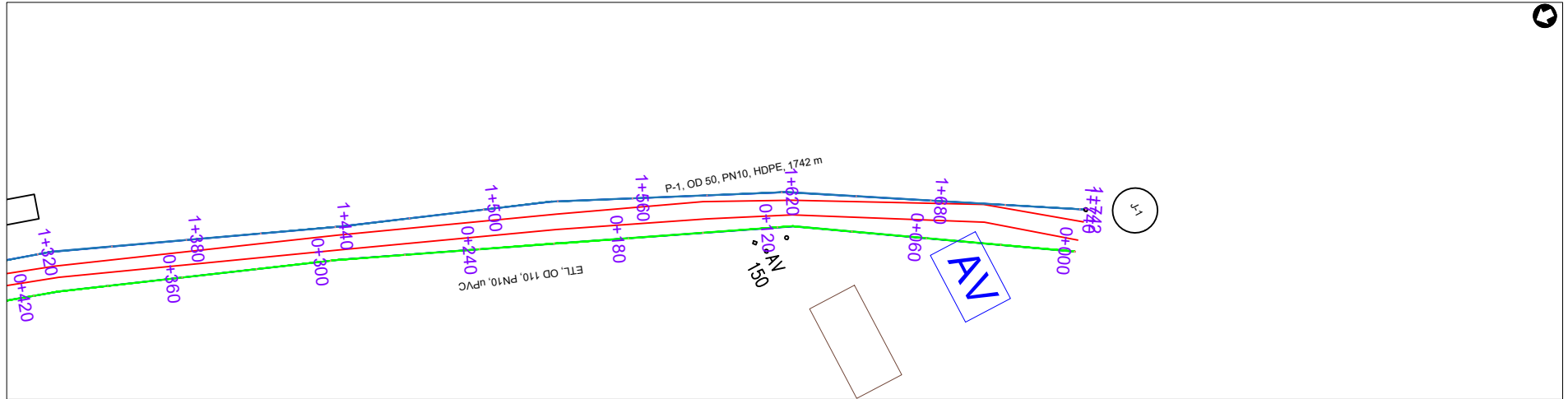
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

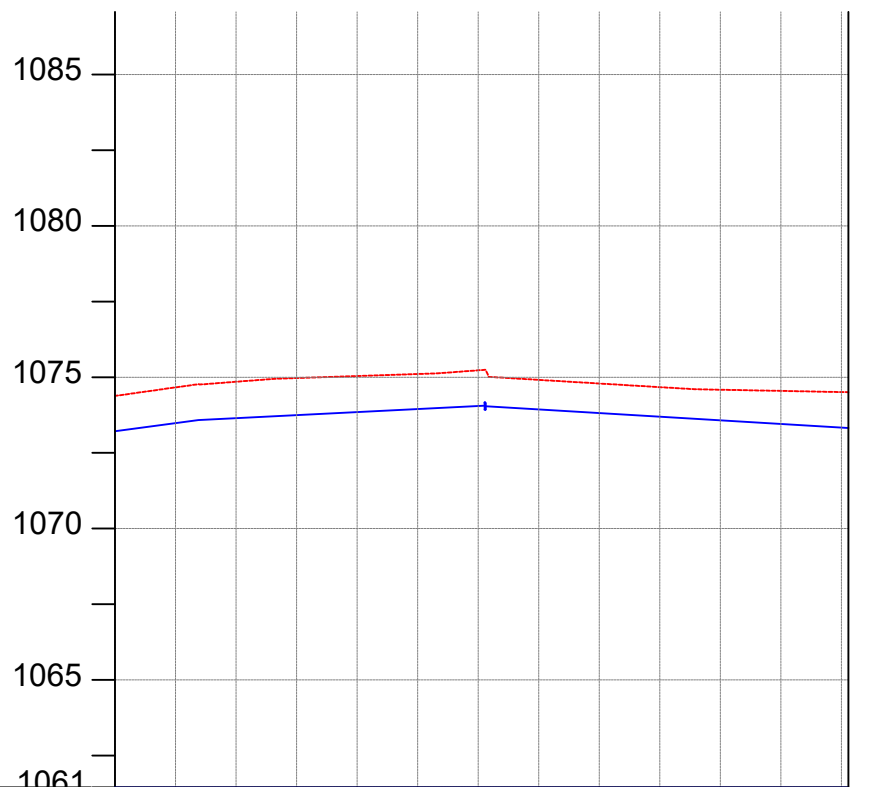


Drawing Title:
TIRINYI TOWN
DL_2 (CH 1+000.00 - 1+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_2 (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	
GROUND LEVEL(m)	1074.382	1074.664	1074.850	1074.973	1075.040	1075.106	1075.229	1074.912	1074.792	1074.672	1074.587	1074.548	1074.509
PIPE DETAILS	P-1, OD 50, PN10, HDPE, 1742 m												
PIPE INVERT(m)	1073.282	1073.564	1073.750	1073.873	1073.940	1074.006	1074.129	1073.812	1073.692	1073.572	1073.487	1073.448	1073.409

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

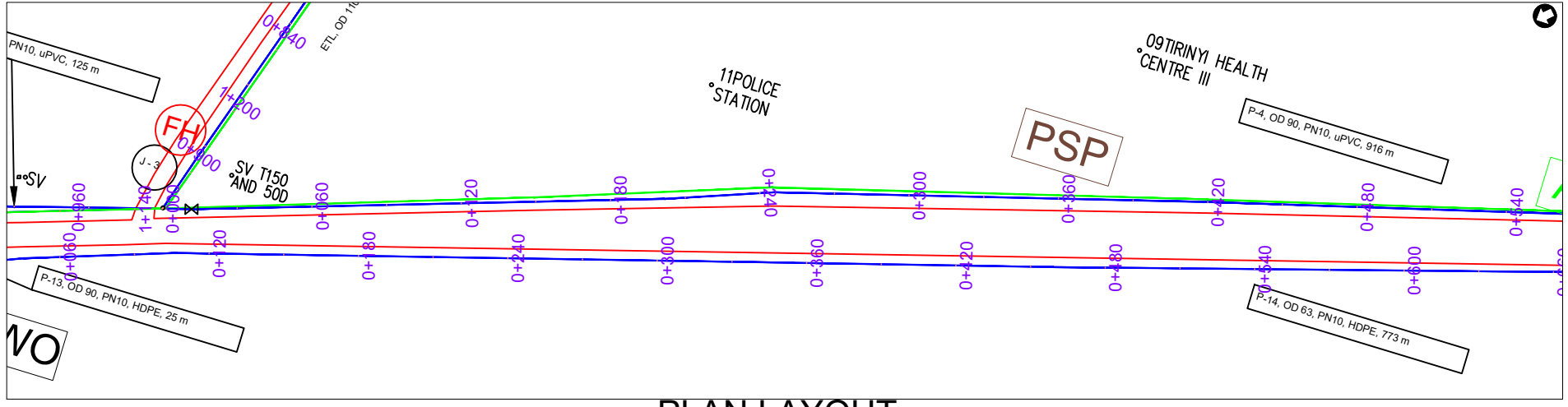
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

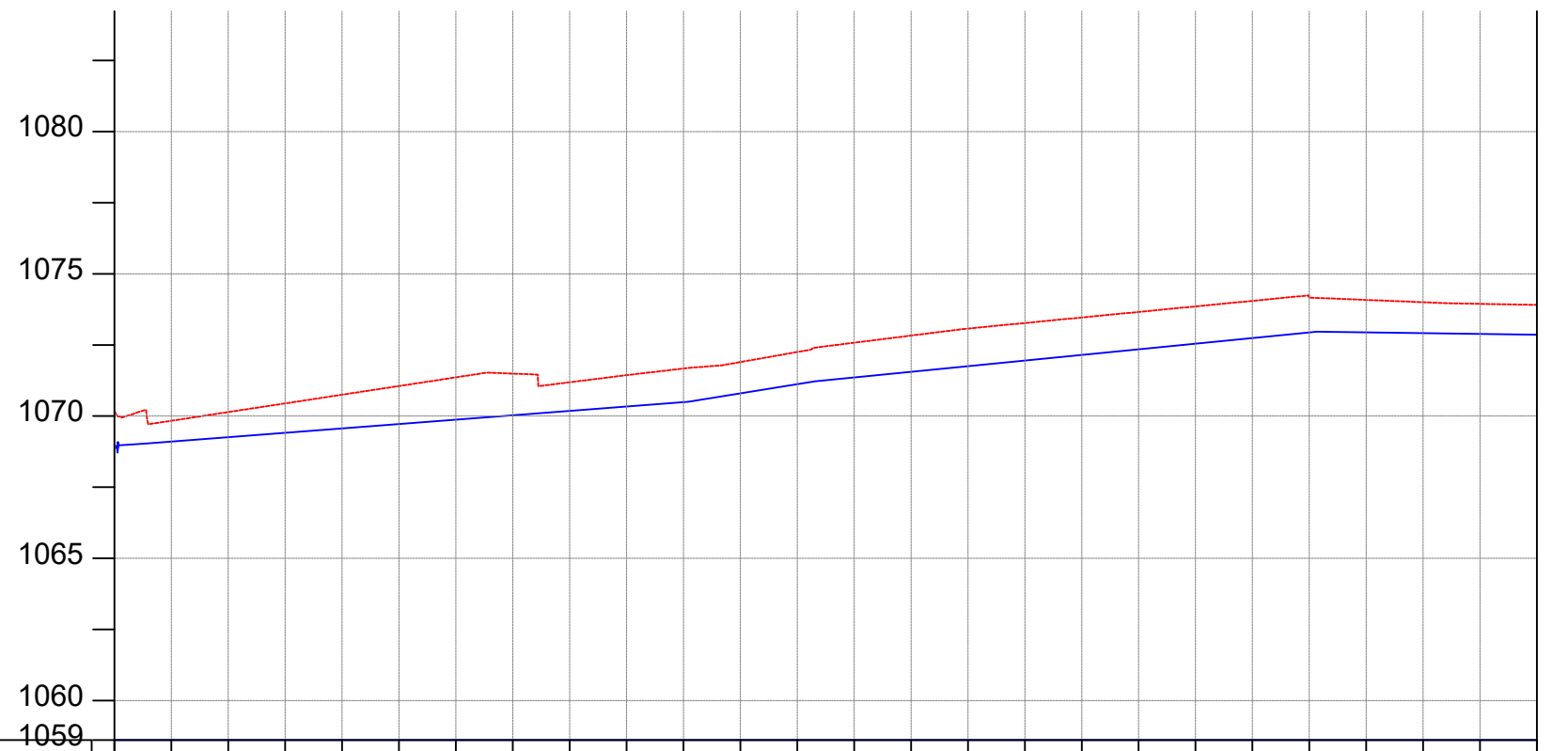
Drawing Title:

TIRINYI TOWN
DL_2 (CH 1+500.00 - 1+742.36)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_2 (CH 1+500.00 - 1+742.36)
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)	1070.171	1069.836	1070.141	1070.446	1070.751	1071.056	1071.361	1071.493	1071.188	1071.439	1071.671	1071.898	1072.252	1072.578	1072.829	1073.076	1073.270	1073.465	1073.660	1073.854	1074.049	1074.161	1074.082	1074.001	1073.944	1073.907	1073.907	
PIPE DETAILS	P-4, OD 90, PN10, uPVC, 916 m																											
PIPE INVERT(m)	1069.071	1068.736	1069.041	1069.346	1069.651	1069.956	1070.261	1070.393	1070.088	1070.339	1070.571	1070.798	1071.152	1071.478	1071.729	1071.976	1072.170	1072.365	1072.560	1072.754	1072.949	1073.061	1072.982	1072.901	1072.844	1072.807	1072.807	

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

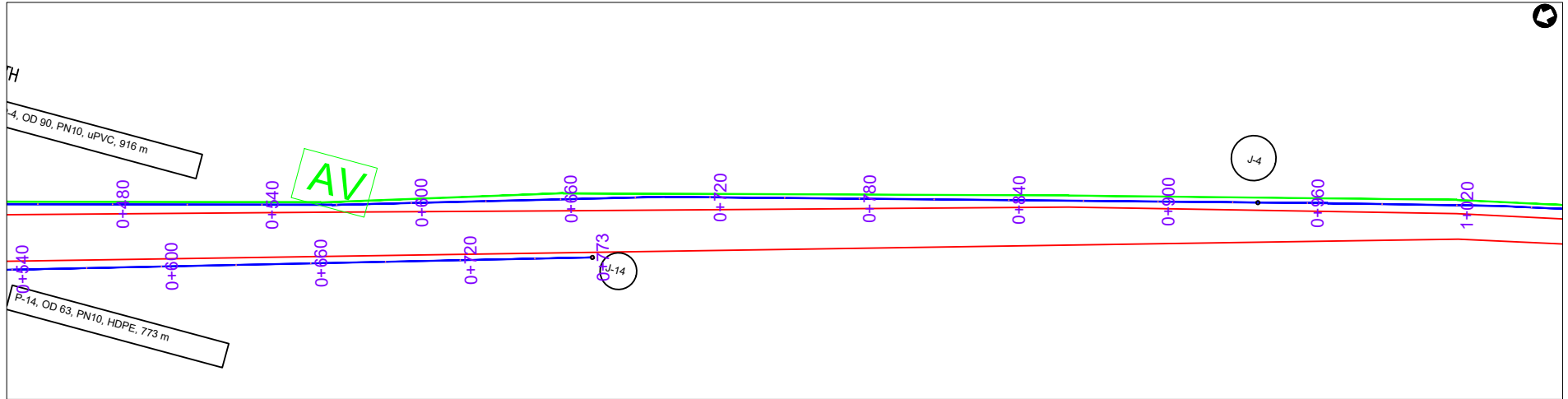
MINISTRY OF WATER AND ENVIRONMENT

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

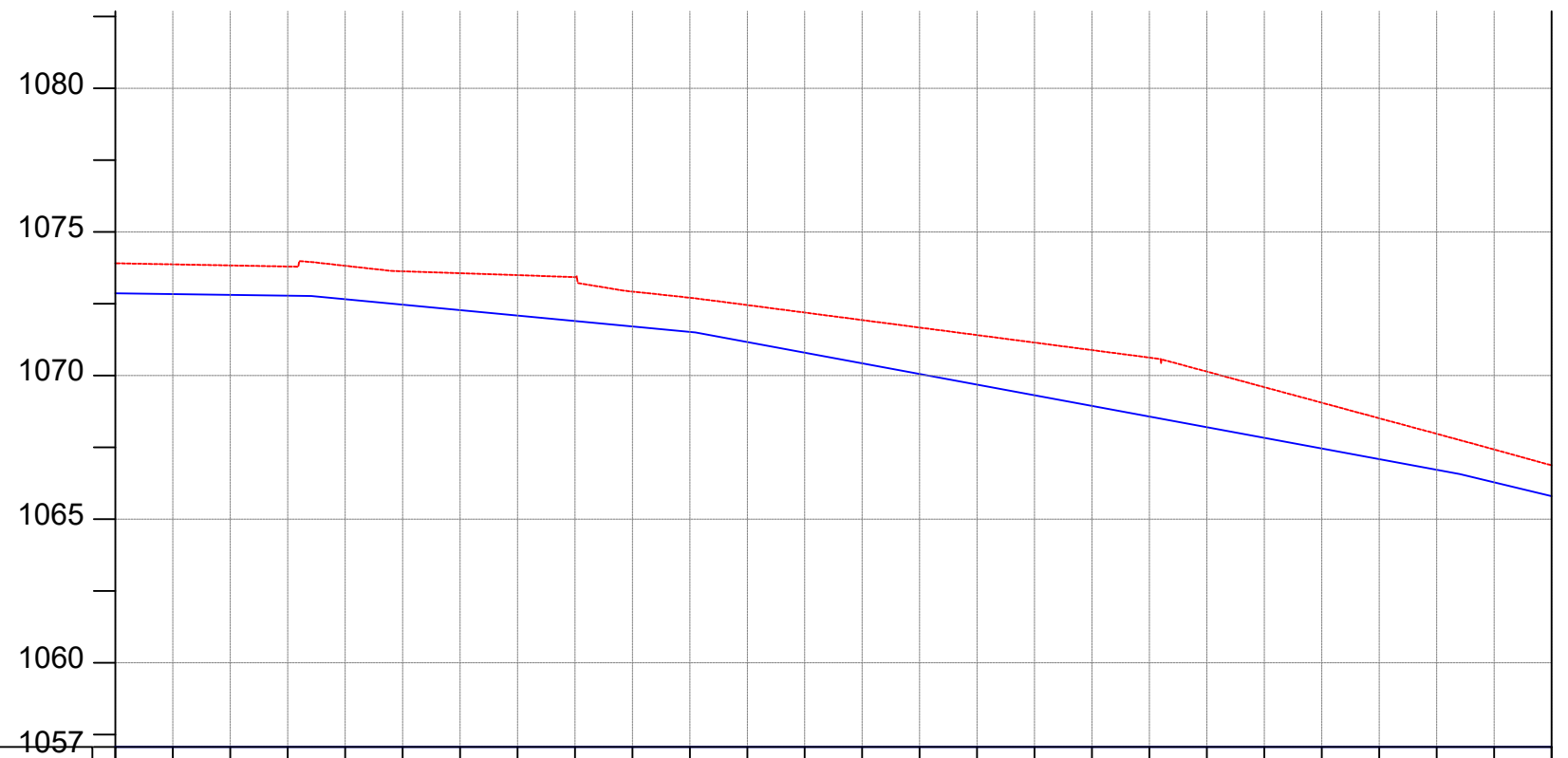
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_3 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_3 (CH 0+000.00 - 0+500.00)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
0+500	1073.907	P-4, OD 90, PN10, uPVC, 916 m	1072.807
0+520	1073.869		1072.769
0+560	1073.832		1072.732
0+600	1073.795		1072.695
0+640	1073.820		1072.720
0+680	1073.628		1072.528
0+720	1073.561		1072.461
0+760	1073.493		1072.393
0+800	1073.425		1072.325
0+840	1072.922		1071.822
0+880	1072.707		1071.607
0+920	1072.453		1071.353
0+960	1072.191		1071.091
1+000	1071.930		1070.830
	1071.669		1070.569
	1071.407		1070.307
	1071.146	1070.046	
	1070.885	1069.785	
	1070.623	1069.523	
	1070.135	1069.035	
	1069.594	1068.494	
	1069.052	1067.952	
	1068.511	1067.411	
	1067.970	1066.870	
	1067.423	1066.323	
	1066.874	1065.774	

P-28, OD 90, PN10, HDPE

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
- Node detail No. 01

REPUBLIC OF UGANDA

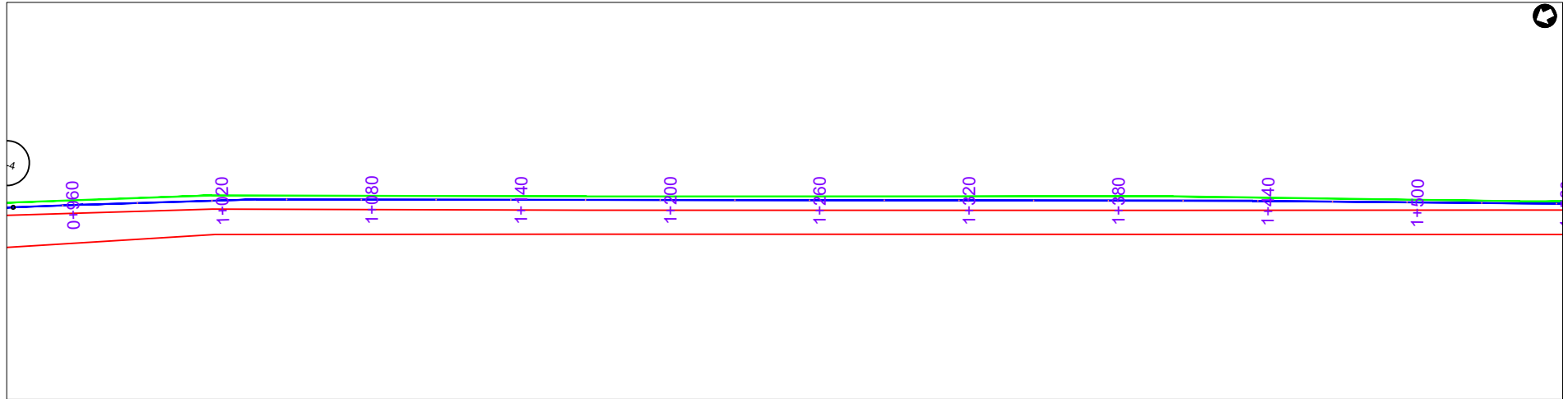
MINISTRY OF WATER AND ENVIRONMENT

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

CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_3 (CH 0+500.00 - 1+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_3 (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)	1066.874	1066.431	1066.000	1065.319	1064.639	1063.958	1063.307	1062.708	1062.110	1061.673	1061.136	1060.598	1060.060	1059.523	1058.985	1058.447	1057.894	1057.325	1056.756	1056.187	1055.619	1055.438	1055.288	1055.157	1055.025	1054.894	1+500
PIPE DETAILS	P-28, OD 90, PN10, HDPE, 1522 m																										
PIPE INVERT(m)	1065.774	1065.331	1064.900	1064.219	1063.539	1062.858	1062.207	1061.608	1061.010	1060.573	1060.036	1059.498	1058.960	1058.423	1057.885	1057.347	1056.794	1056.225	1055.656	1055.087	1054.519	1054.338	1054.188	1054.057	1053.925	1053.794	1+500

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

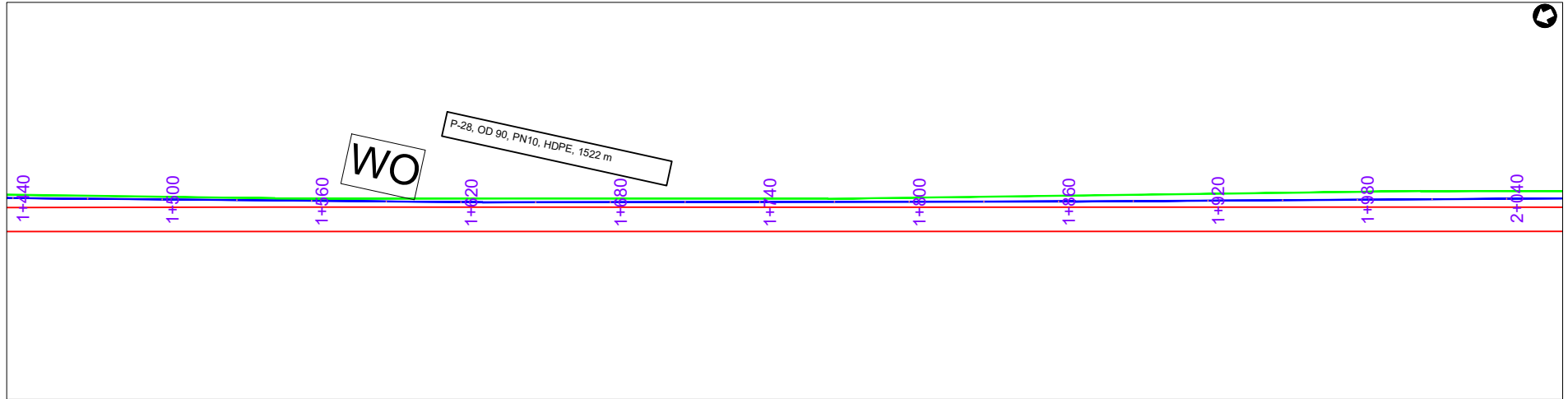
MINISTRY OF WATER AND ENVIRONMENT

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

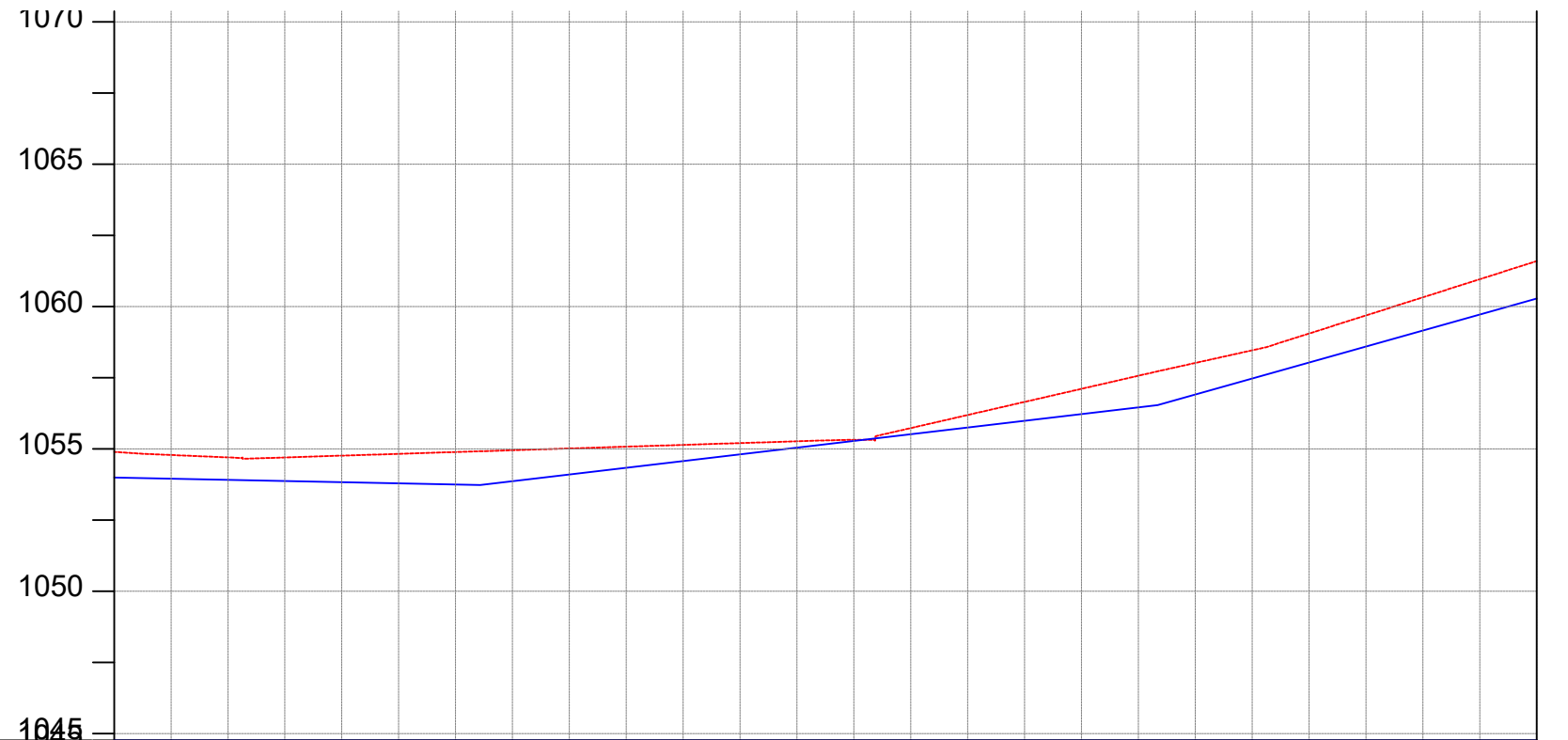
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_3 (CH 1+000.00 - 1+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_3 (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	2+000														
GROUND LEVEL(m)	1054.894	1054.785	1054.700	1054.699	1054.762	1054.826	1054.889	1054.952	1055.015	1055.078	1055.140	1055.203	1055.266	1055.319	1055.370	1056.190	1056.650	1057.109	1057.569	1058.018	1058.463	1059.052	1059.688	1060.324	1060.960	1061.596	2+000	
PIPE DETAILS	P-28, OD 90, PN10, HDPE, 1522 m																											
PIPE INVERT(m)	1053.794	1053.685	1053.600	1053.599	1053.662	1053.726	1053.789	1053.852	1053.915	1053.978	1054.040	1054.103	1054.166	1054.219	1054.630	1055.090	1055.550	1056.009	1056.469	1056.918	1057.363	1057.952	1058.588	1059.224	1059.860	1060.496	2+000	

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

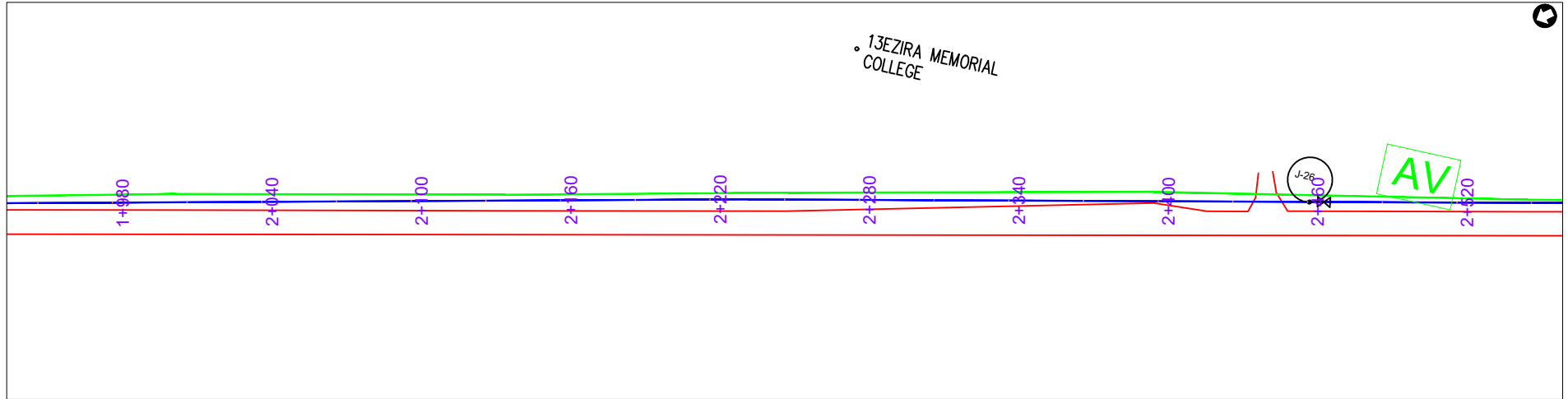
MINISTRY OF WATER AND ENVIRONMENT

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

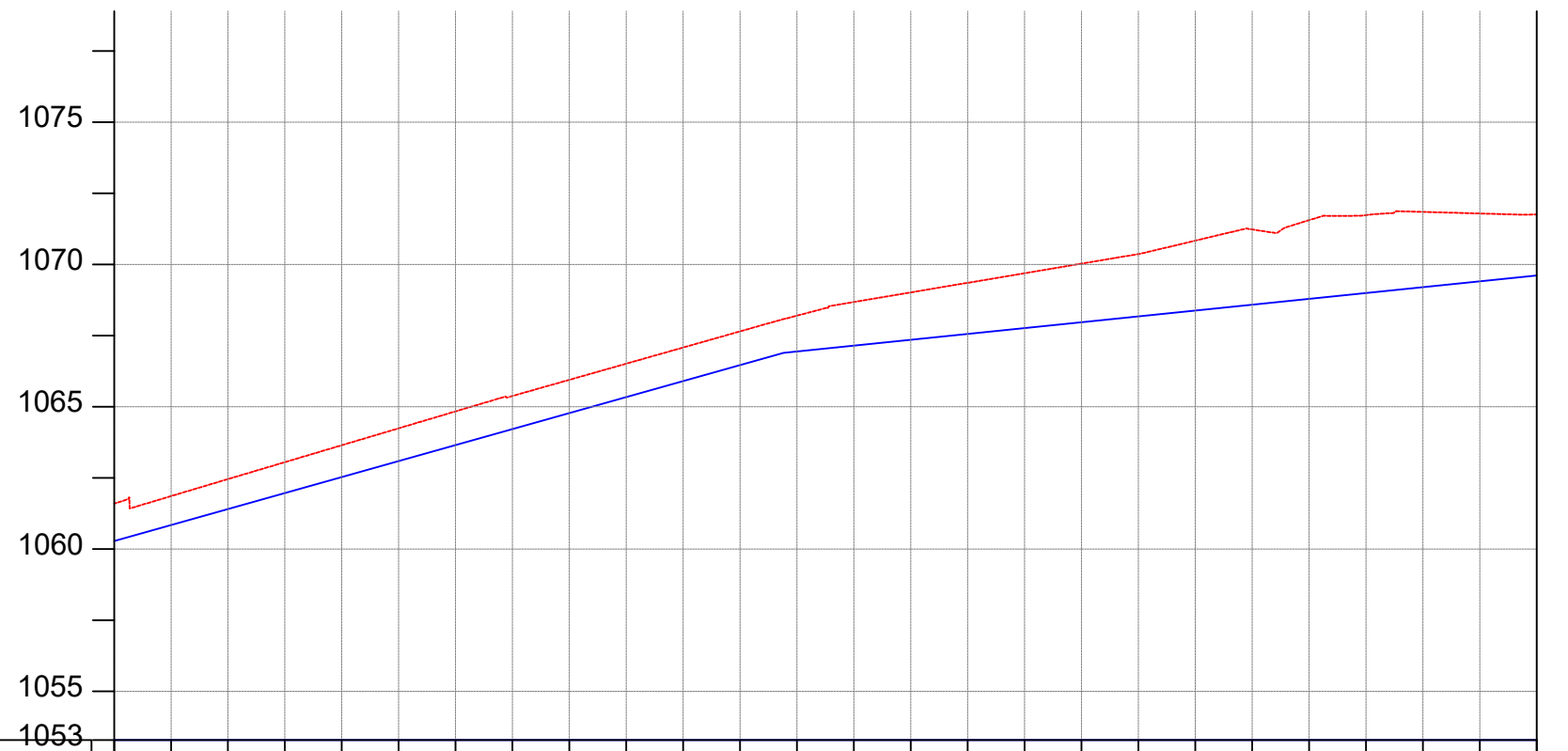
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_3 (CH 1+500.00 - 2+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_3 (CH 1+500.00 - 2+000.00)
Sheet No.: 4	Format: A3



PLAN LAYOUT



CHAINAGE	2+000		2+040		2+080		2+120		2+160		2+200		2+240		2+280		2+320		2+360		2+400		2+440		2+480	2+500
GROUND LEVEL(m)	1061.596	1061.859	1062.456	1063.052	1063.647	1064.242	1064.837	1065.377	1065.945	1066.513	1067.081	1067.648	1068.200	1068.679	1069.016	1069.353	1069.691	1070.028	1070.365	1070.836	1071.228	1071.555	1071.733	1071.847	1071.790	1071.756
PIPE DETAILS	P-28, OD 90, PN10, HDPE, 1522 m P-29, OD 75, PN10, HDPE																									
PIPE INVERT(m)	1060.496	1060.759	1061.356	1061.952	1062.547	1063.142	1063.737	1064.277	1064.845	1065.413	1065.981	1066.548	1067.100	1067.579	1067.916	1068.253	1068.591	1068.928	1069.265	1069.736	1070.128	1070.455	1070.633	1070.747	1070.690	1070.656

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

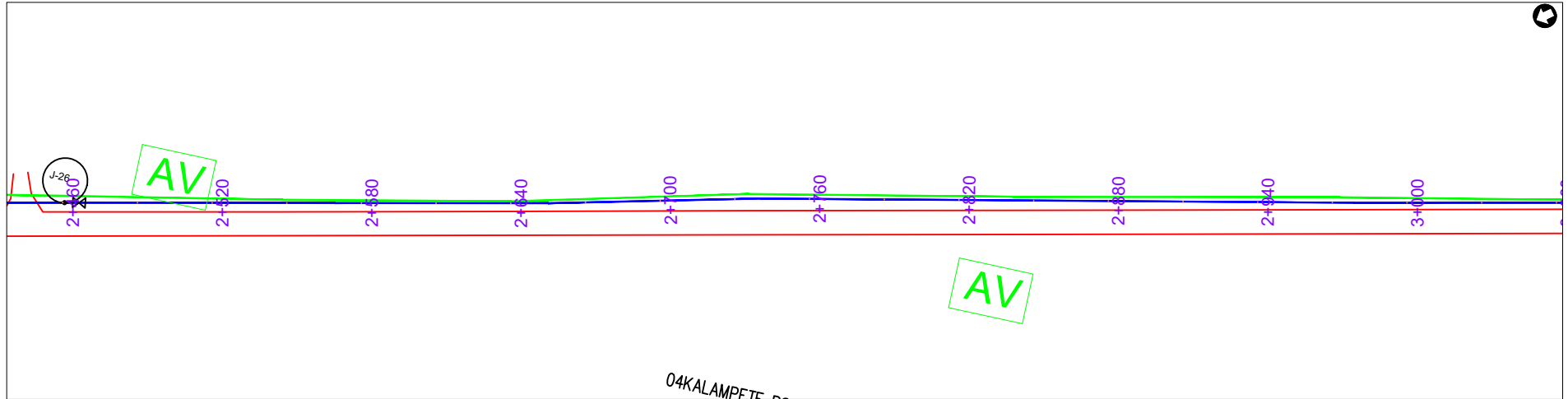
MINISTRY OF WATER AND ENVIRONMENT

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

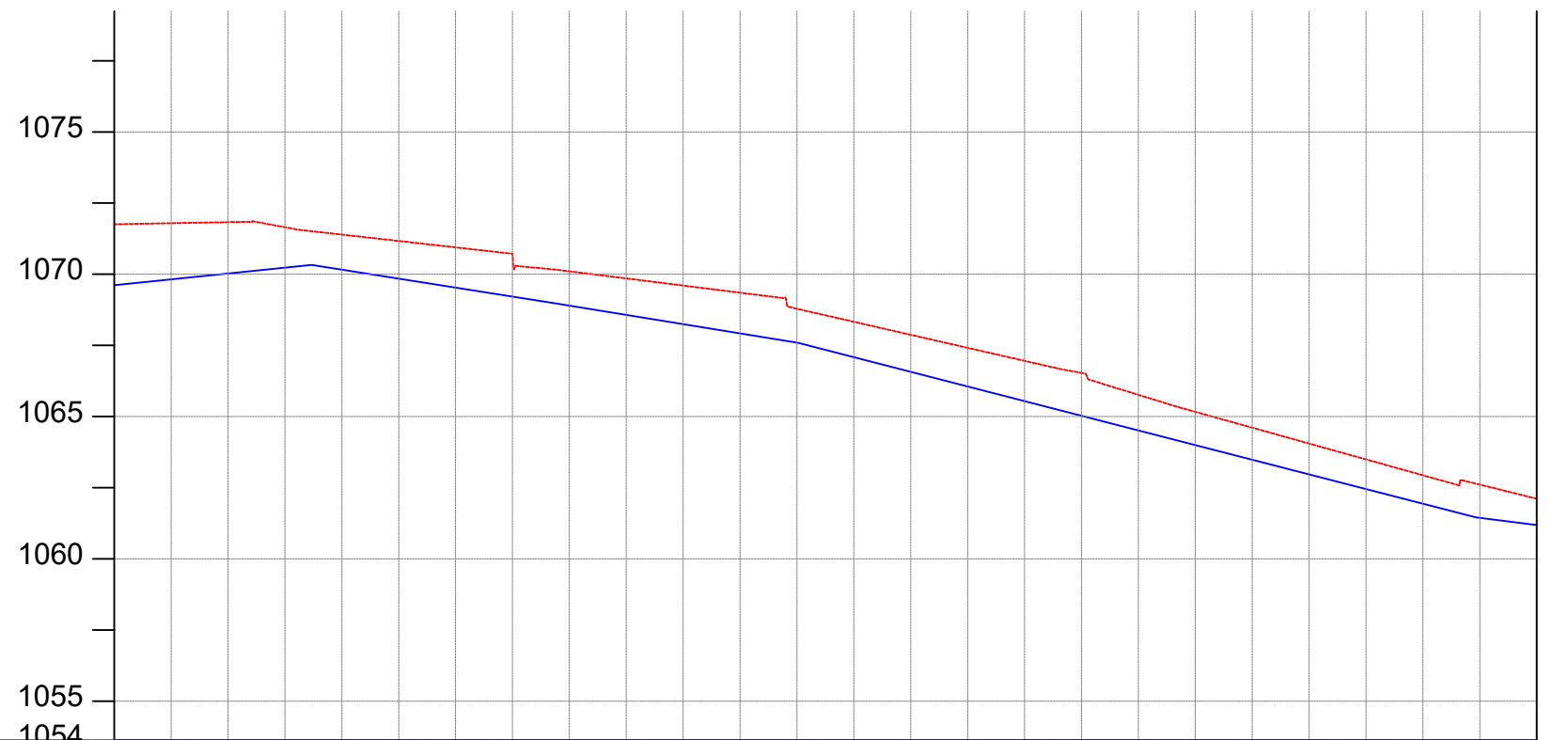
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_3 (CH 2+000.00 - 2+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_3 (CH 2+000.00 - 2+500.00)
Sheet No.: 5	Format: A3



04KALAMPEPE
PLAN LAYOUT



CHAINAGE	2+500	2+520	2+560	2+600	2+640	2+680	2+720	2+760	2+800	2+840	2+880	2+920	2+960	3+000														
GROUND LEVEL(m)	1071.756	1071.793	1071.830	1071.653	1071.393	1071.169	1070.944	1070.720	1070.102	1069.853	1069.603	1069.352	1068.787	1068.329	1067.872	1067.415	1066.957	1066.533	1065.764	1065.167	1064.610	1064.053	1063.496	1062.939	1062.612	1062.114	3+000	
PIPE DETAILS	P-29, OD 75, PN10, HDPE, 1719 m																											
PIPE INVERT(m)	1070.656	1070.693	1070.730	1070.553	1070.293	1070.069	1069.844	1069.620	1069.002	1068.753	1068.503	1068.252	1067.687	1067.229	1066.772	1066.315	1065.857	1065.433	1064.664	1064.067	1063.510	1062.953	1062.396	1061.839	1061.512	1061.014	3+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

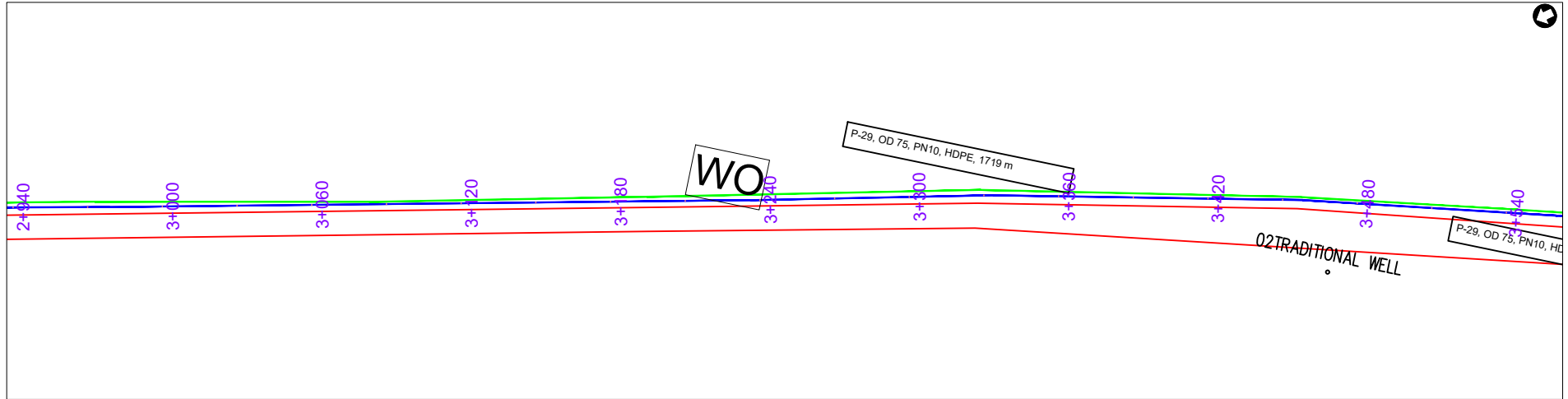
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

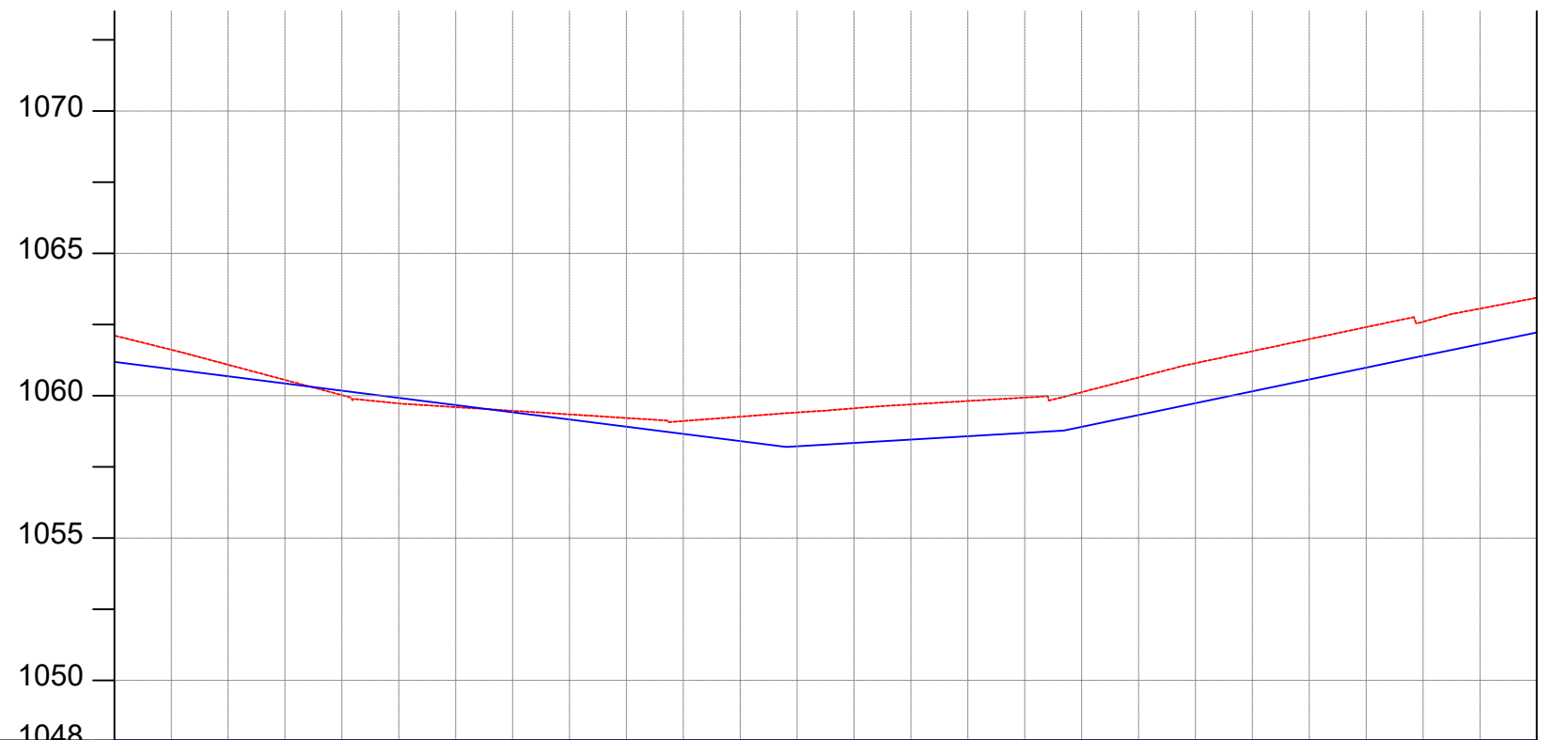


Drawing Title:
TIRINYI TOWN
DL_3 (CH 2+500.00 - 3+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_3 (CH 2+500.00 - 3+000.00)	
Sheet No.: 6	Format: A3



PLAN LAYOUT



CHAINAGE	3+000		3+040		3+080		3+120		3+160		3+200		3+240		3+280		3+320		3+360		3+400		3+440		3+480	3+500		
GROUND LEVEL(m)	1062.114	1061.616	1061.089	1060.555	1060.022	1059.730	1059.599	1059.472	1059.344	1059.217	1059.111	1059.264	1059.412	1059.558	1059.696	1059.815	1059.935	1060.123	1060.643	1061.143	1061.565	1061.987	1062.410	1062.600	1063.060	1063.441		
PIPE DETAILS	P-29, OD 75, PN10, HDPE, 1719 m																											
PIPE INVERT(m)	1061.014	1060.516	1059.989	1059.455	1058.922	1058.630	1058.499	1058.372	1058.244	1058.117	1058.011	1058.164	1058.312	1058.458	1058.596	1058.715	1058.835	1059.023	1059.543	1060.043	1060.465	1060.887	1061.310	1061.500	1061.960	1062.341		

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



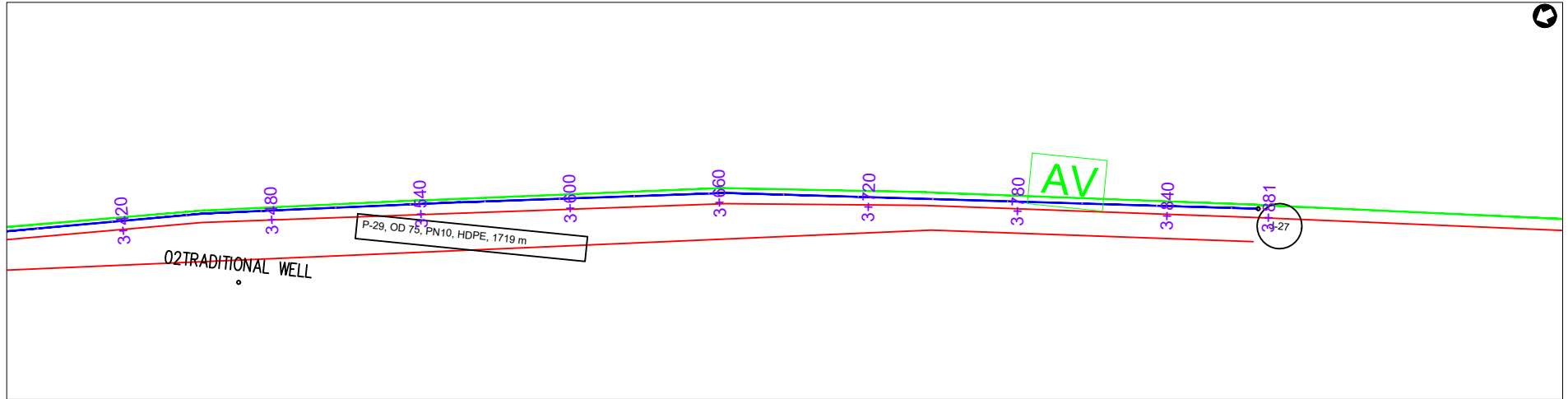
MINISTRY OF WATER AND ENVIRONMENT

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

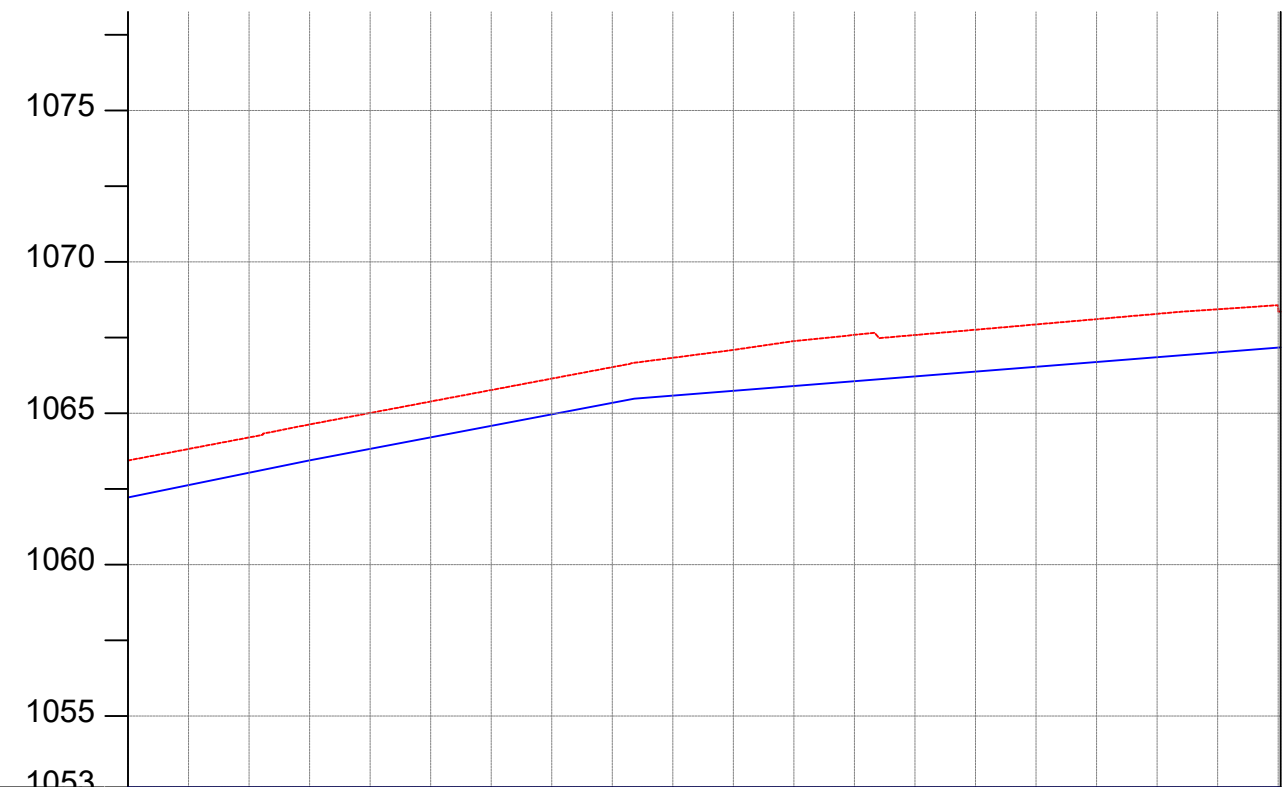
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_3 (CH 3+000.00 - 3+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_3 (CH 3+000.00 - 3+500.00)
Sheet No.: 7	Format: A3



PLAN LAYOUT



CHAINAGE	3+500	3+520		3+560		3+600		3+640		3+680		3+720		3+760		3+800		3+840		3+880
GROUND LEVEL(m)	1063.441	1063.822	1064.203	1064.632	1065.011	1065.389	1065.767	1066.146	1066.524	1066.833	1067.093	1067.382	1067.589	1067.585	1067.760	1067.935	1068.109	1068.284	1068.436	1068.529
PIPE DETAILS	P-29, OD 75, PN10, HDPE, 1719 m																			
PIPE INVERT(m)	1062.341	1062.722	1063.103	1063.532	1063.911	1064.289	1064.667	1065.046	1065.424	1065.733	1065.993	1066.282	1066.489	1066.485	1066.660	1066.835	1067.009	1067.184	1067.336	1067.429

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

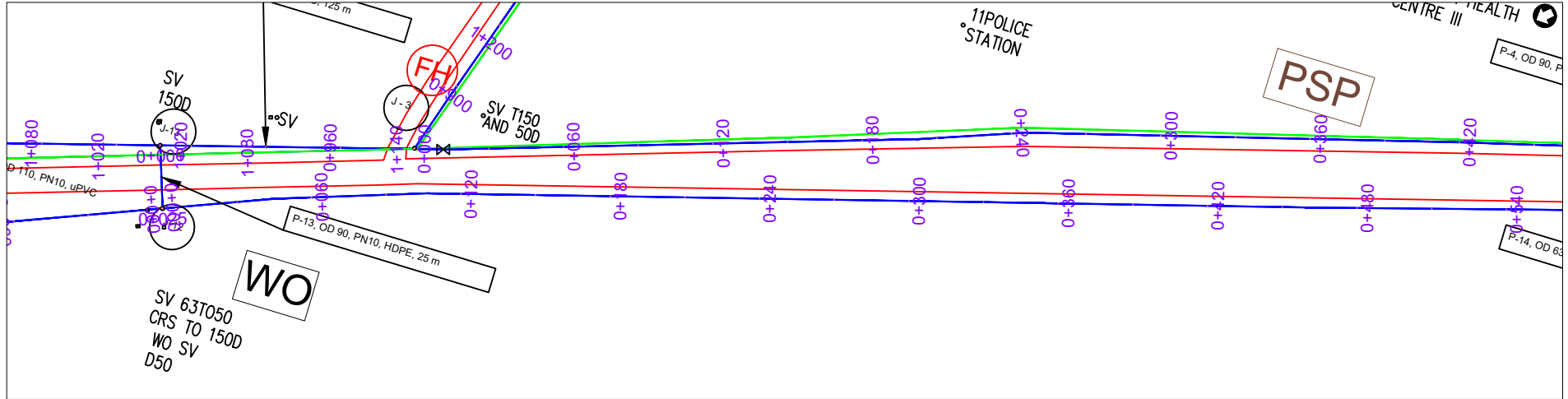
MINISTRY OF WATER AND ENVIRONMENT

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

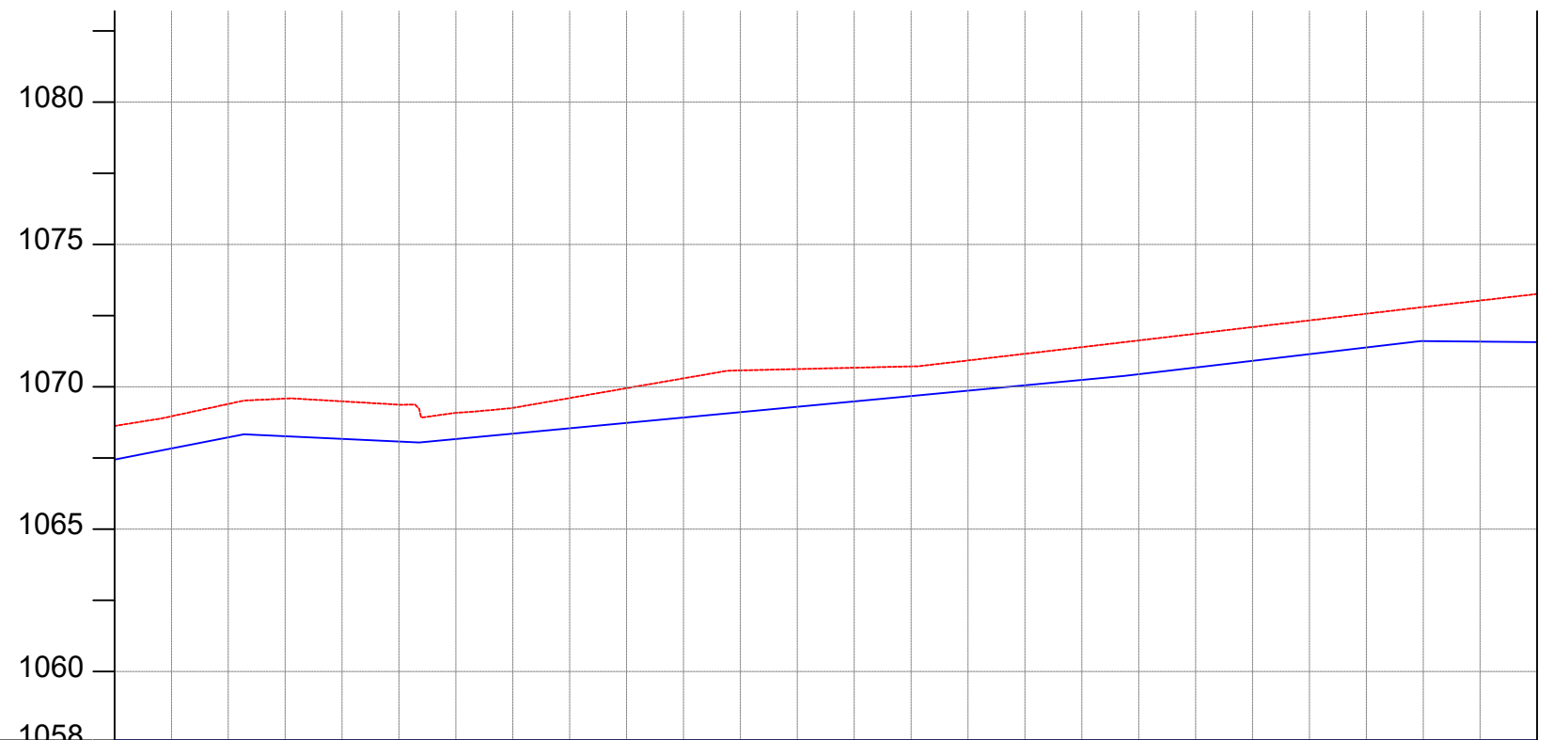
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_3 (CH 3+500.00 - 3+880.85)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_3 (CH 3+500.00 - 3+880.85)	
Sheet No.: 8	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)	1068.625	1068.964	1069.396	1069.584	1069.488	1069.371	1069.084	1069.258	1069.604	1069.950	1070.297	1070.575	1070.622	1070.669	1070.716	1070.924	1071.159	1071.393	1071.627	1071.862	1072.096	1072.331	1072.566	1072.800	1073.030	1073.259		
PIPE DETAILS	P-14, OD 63, PN10, HDPE, 773 m																											
PIPE INVERT(m)	1067.525	1067.864	1068.296	1068.484	1068.388	1068.271	1067.984	1068.158	1068.504	1068.850	1069.197	1069.475	1069.522	1069.569	1069.616	1069.824	1070.059	1070.293	1070.527	1070.762	1070.996	1071.231	1071.466	1071.700	1071.930	1072.159		

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

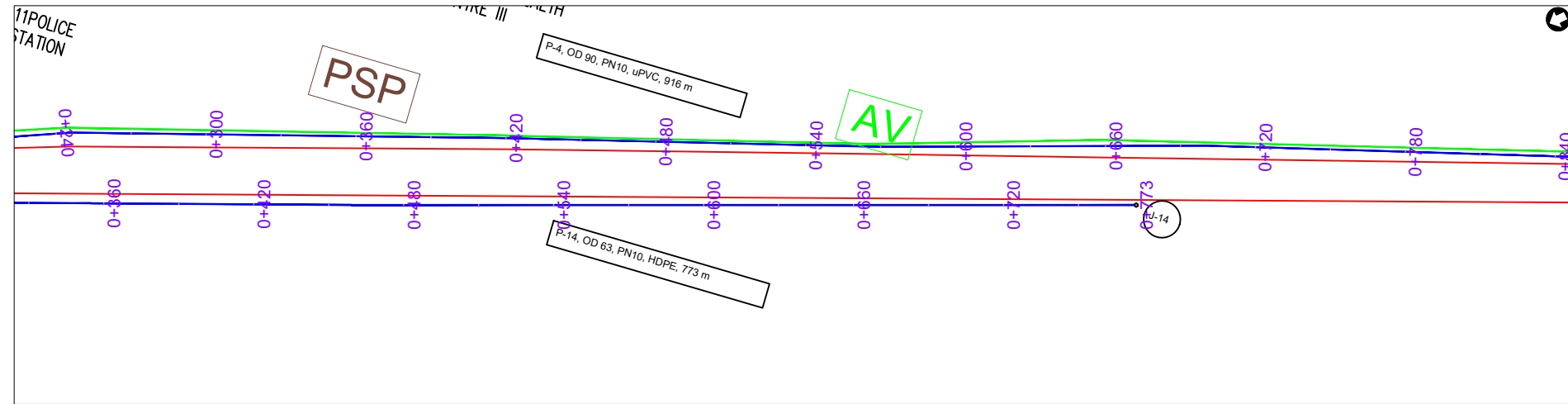
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

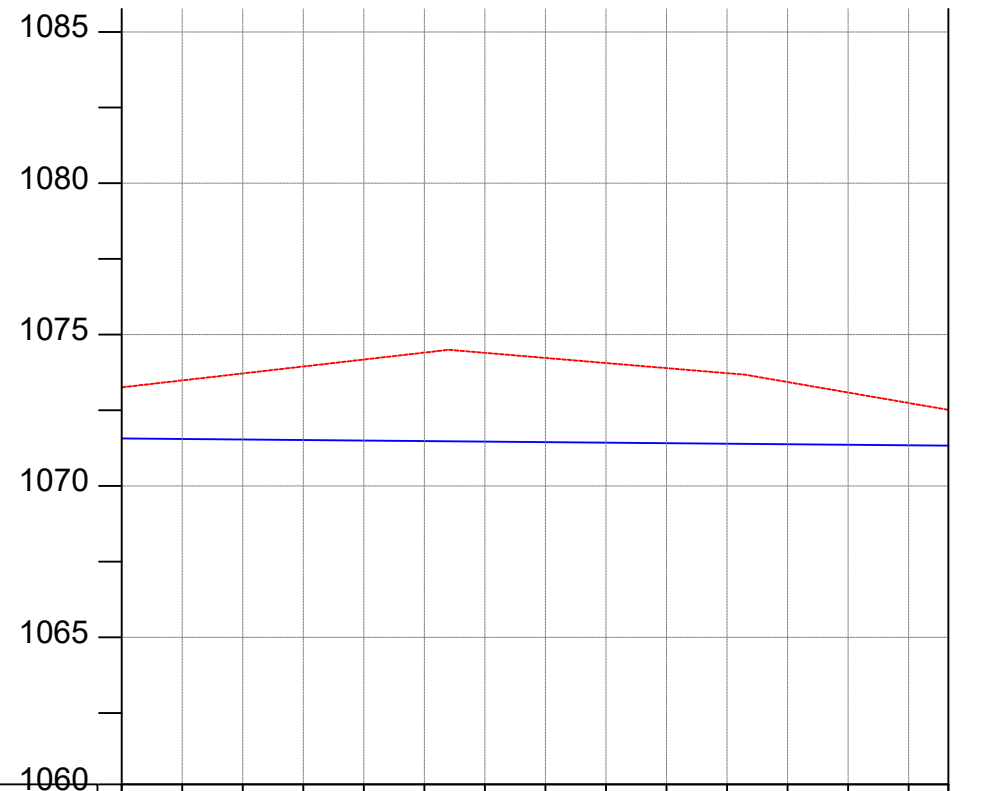


Drawing Title:
TIRINYI TOWN
DL_4 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_4 (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+773							
GROUND LEVEL(m)	1073.259	1073.489	1073.718	1073.948	1074.177	1074.407	1074.398	1074.230	1074.062	1073.894	1073.726	1073.434	1073.088	1072.743	1072.515	1072.415
PIPE DETAILS	P-14, OD 63, PN10, HDPE, 773 m															
PIPE INVERT(m)	1072.159	1072.389	1072.618	1072.848	1073.077	1073.307	1073.298	1073.130	1072.962	1072.794	1072.626	1072.334	1071.988	1071.643	1071.415	

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

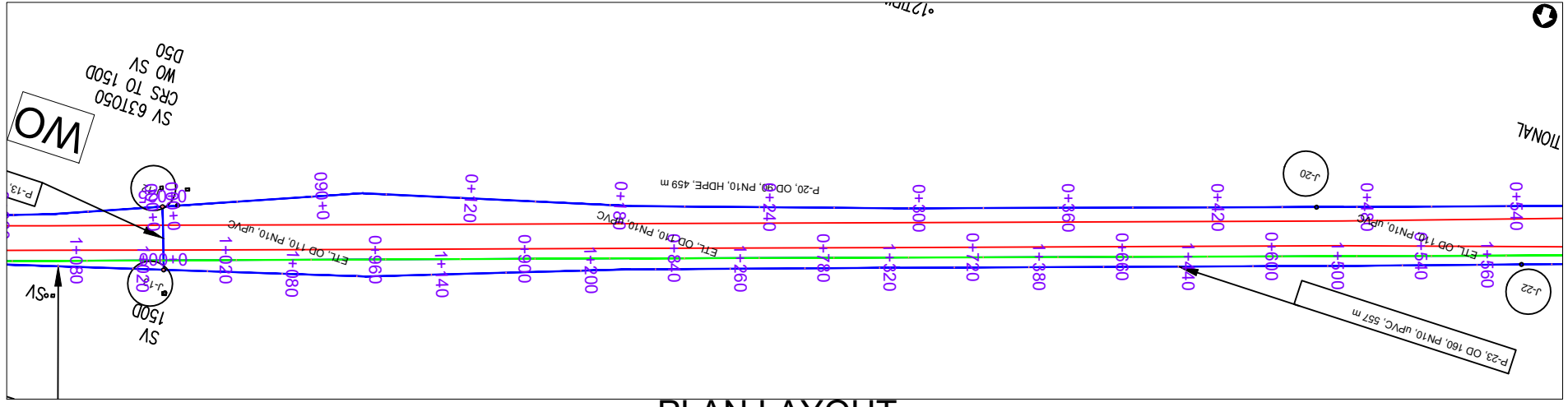
CONSULTANT:



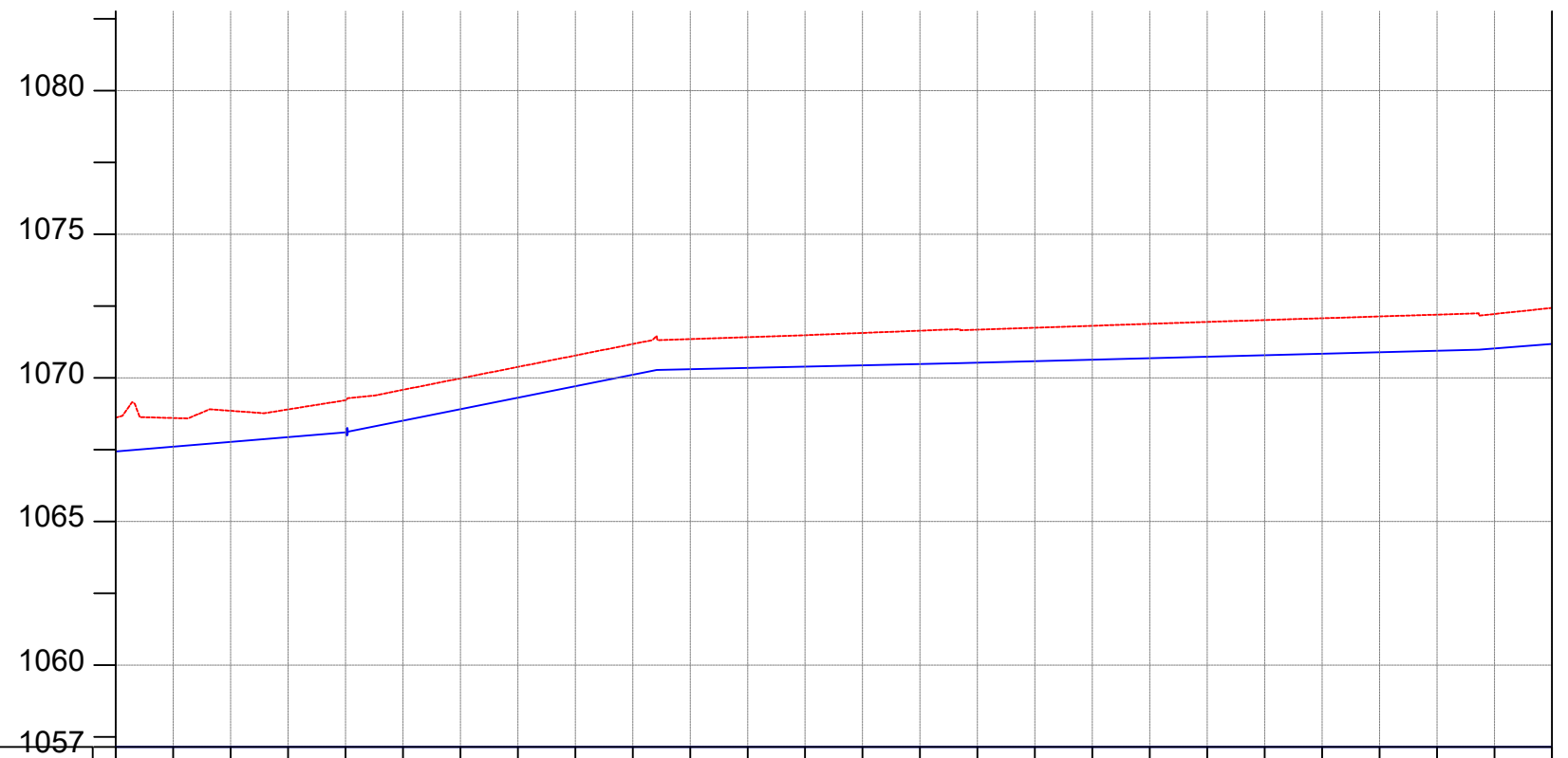
Drawing Title:

TIRINYI TOWN
DL_4 (CH 0+500.00 - 0+773.14)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_4 (CH 0+500.00 - 0+773.14)	
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)	1068.625	1068.602	1068.854	1068.902	1069.222	1069.584	1069.983	1070.381	1070.780	1071.178	1071.351	1071.417	1071.486	1071.565	1071.644	1071.680	1071.747	1071.815	1071.882	1071.949	1072.013	1072.076	1072.139	1072.202	1072.225	1072.436		
PIPE DETAILS	OD 90, PN10, HDPE																											
PIPE INVERT(m)	1067.525	1067.502	1067.754	1067.802	1068.122	1068.484	1068.883	1069.281	1069.680	1070.078	1070.251	1070.317	1070.386	1070.465	1070.544	1070.580	1070.647	1070.715	1070.782	1070.849	1070.913	1070.976	1071.039	1071.102	1071.125	1071.336		

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



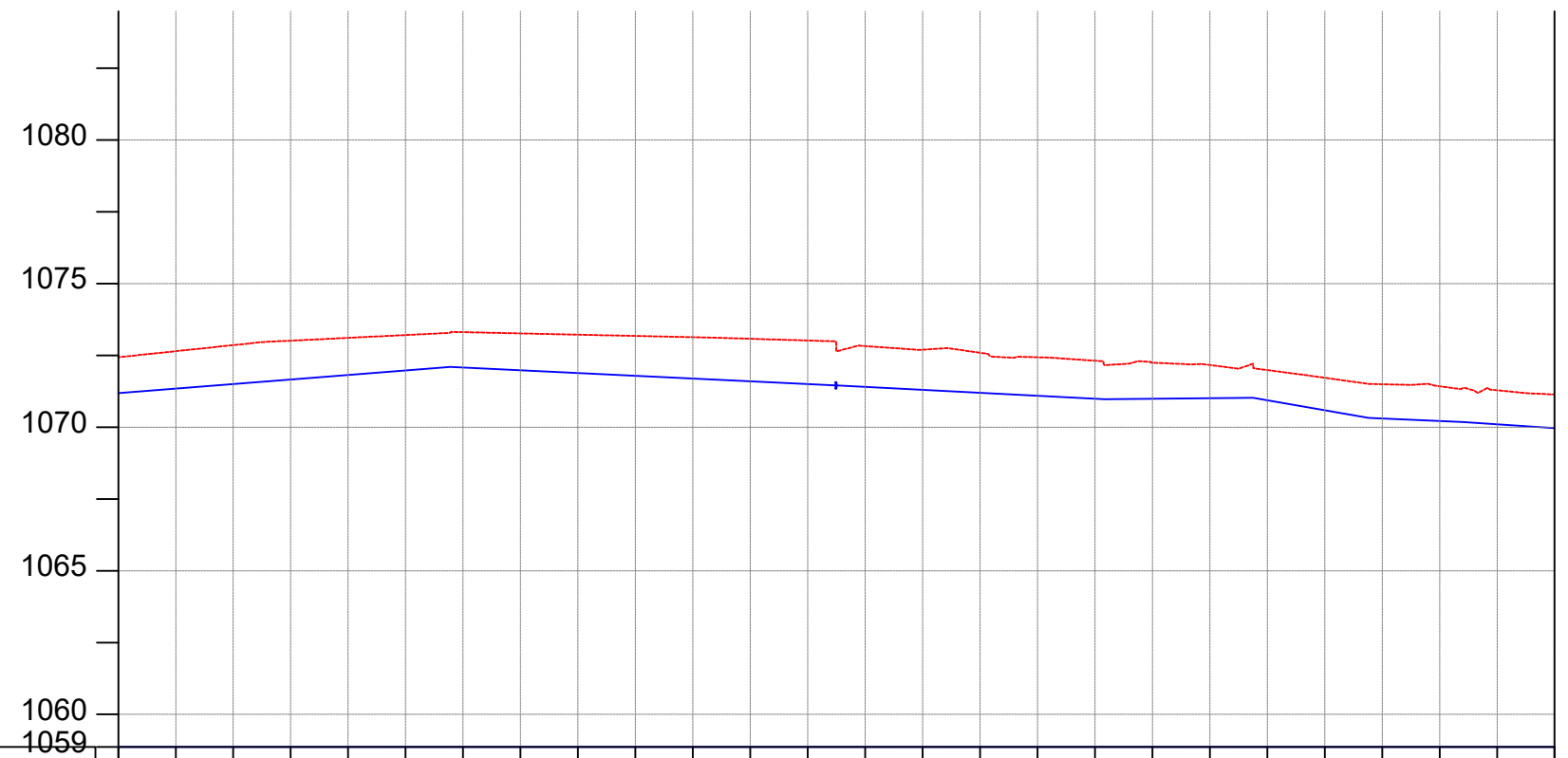
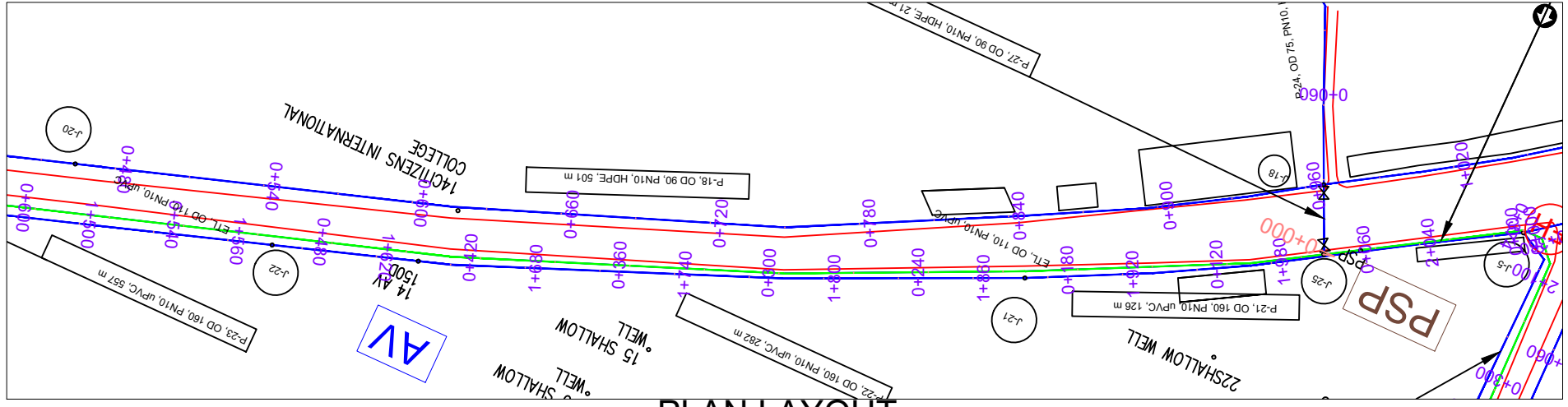
MINISTRY OF WATER AND ENVIRONMENT

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

CONSULTANT:

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

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



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)	1072.436	1072.646	1072.857	1073.012	1073.110	1073.208	1073.309	1073.265	1073.221	1073.177	1073.132	1073.078	1073.018	1072.823	1072.698	1072.590	1072.434	1072.314	1072.246	1072.164	1071.988	1071.720	1071.495	1071.424	1071.284	1071.138		
PIPE DETAILS	OD 90, PN10, HDPE																											
PIPE INVERT(m)	1071.336	1071.546	1071.757	1071.912	1072.010	1072.108	1072.209	1072.165	1072.121	1072.077	1072.032	1071.978	1071.918	1071.723	1071.598	1071.490	1071.334	1071.214	1071.146	1071.064	1070.888	1070.620	1070.395	1070.324	1070.184	1070.038		

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

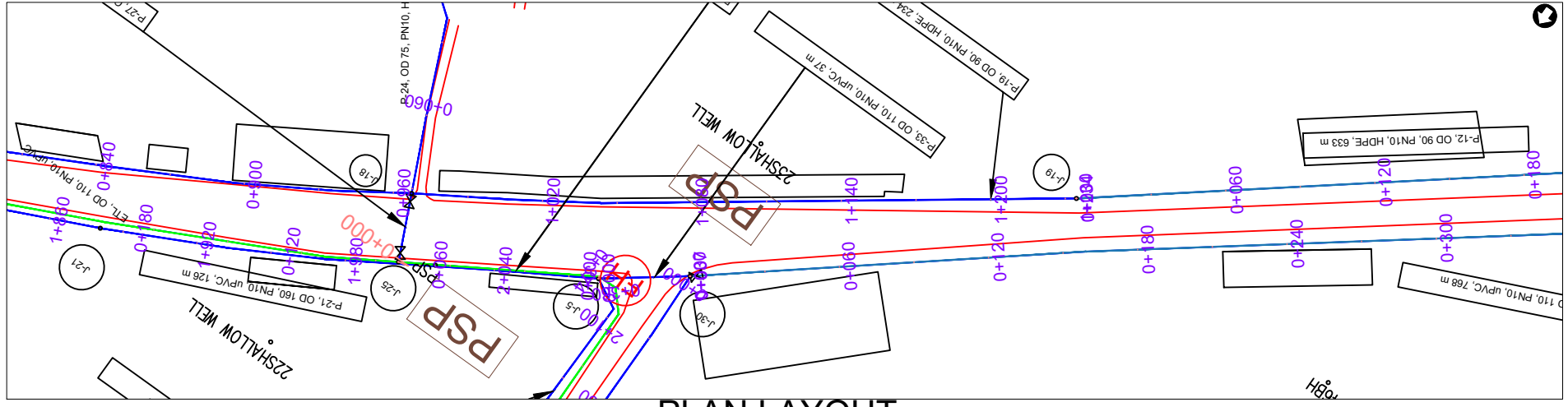
MINISTRY OF WATER AND ENVIRONMENT

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

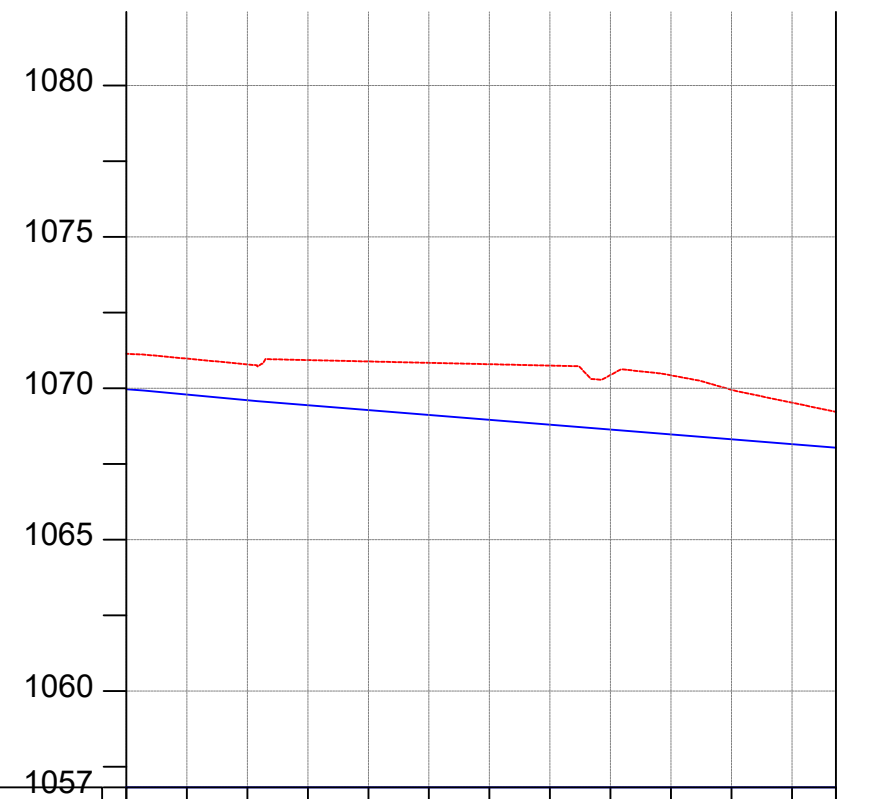
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_5 (CH 0+500.00 - 1+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_5 (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+234
GROUND LEVEL(m)	1071.138	1070.979	1070.788	1070.930	1070.885	1070.839	1070.794	1070.748	1070.437	1070.427	1069.949	1069.522	1069.220
PIPE DETAILS	OD 90, PN10, HDPE												
PIPE INVERT(m)	1070.038	1069.879	1069.688	1069.830	1069.785	1069.739	1069.694	1069.648	1069.337	1069.327	1068.849	1068.422	1068.120

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:

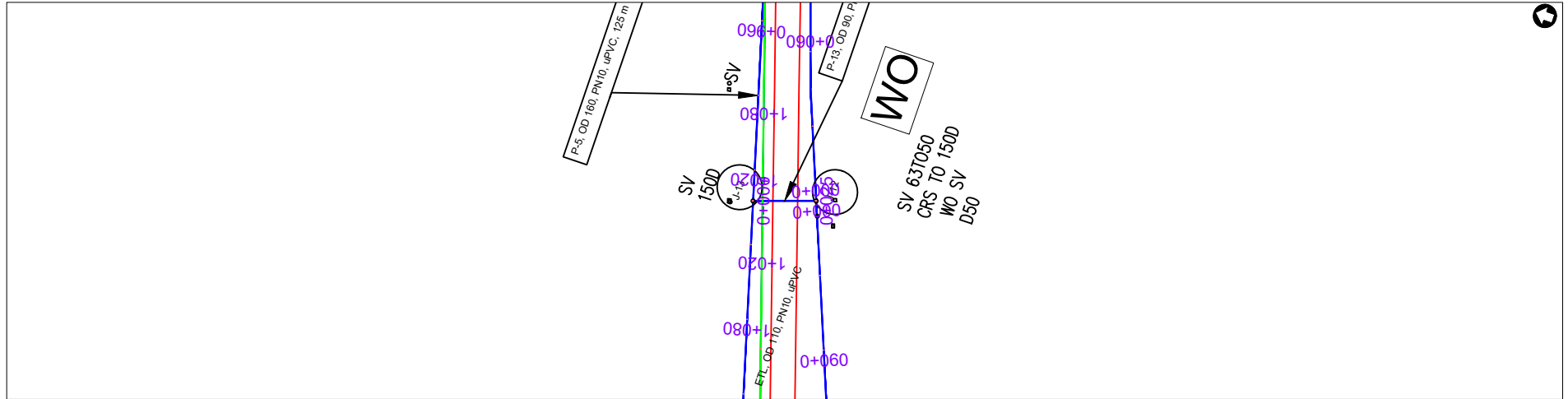
Saman Corp.

CHEL

AWE Engineers

Drawing Title:
TIRINYI TOWN
DL_5 (CH 1+000.00 - 1+234.49)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_5 (CH 1+000.00 - 1+234.49)
Sheet No.: 3	Format: A3



PLAN LAYOUT

CHAINAGE	0+000	0+025
GROUND LEVEL(m)	1069.121	1068.825
PIPE DETAILS	P-13, OD 90, PN10, HDPE, 25 m	
PIPE INVERT(m)	1068.021	1067.525

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
- Node detail No. 01

REPUBLIC OF UGANDA

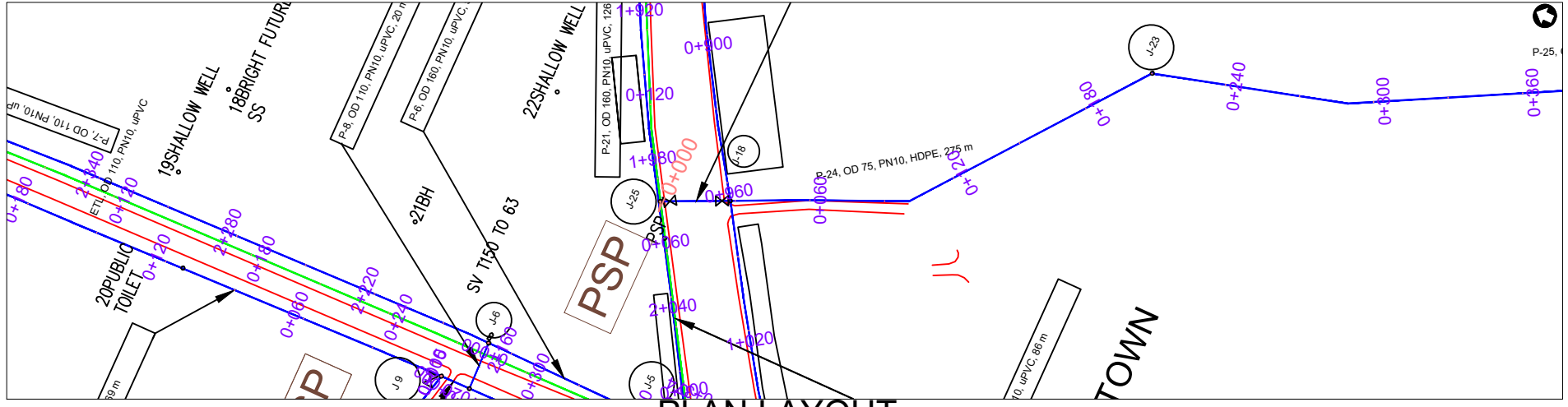
MINISTRY OF WATER AND ENVIRONMENT

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

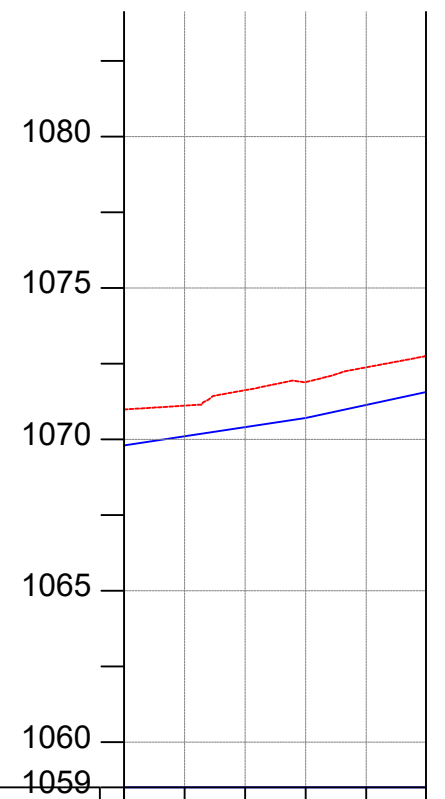
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_6 (CH 0+000.00 - 0+025.34)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_6 (CH 0+000.00 - 0+025.34)	Sheet No.: 1
Format: A3	



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080	0+100
GROUND LEVEL(m)	1070.985	1071.113	1071.624	1071.889	1072.379	1072.749
PIPE DETAILS	P-24, OD 75, PN10, HDPE					
PIPE INVERT(m)	1069.885	1070.013	1070.524	1070.789	1071.279	1071.649

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

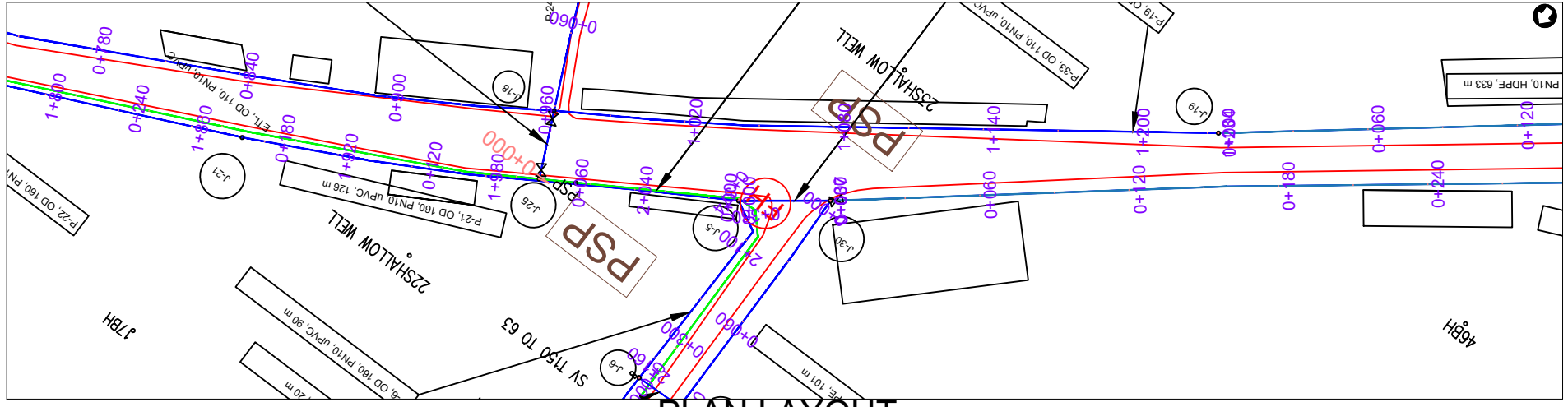
MINISTRY OF WATER AND ENVIRONMENT

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

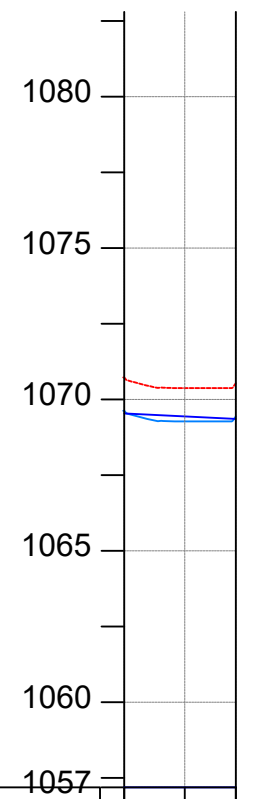
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_7 (CH 0+000.00 - 0+099.73)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_7 (CH 0+000.00 - 0+099.73)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+037
GROUND LEVEL(m)	1070.725	1070.374
PIPE DETAILS	P-33, OD 110, PN10, uPVC, 37 m	
PIPE INVERT(m)	1069.625	1069.274
	1069.438	1070.538

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

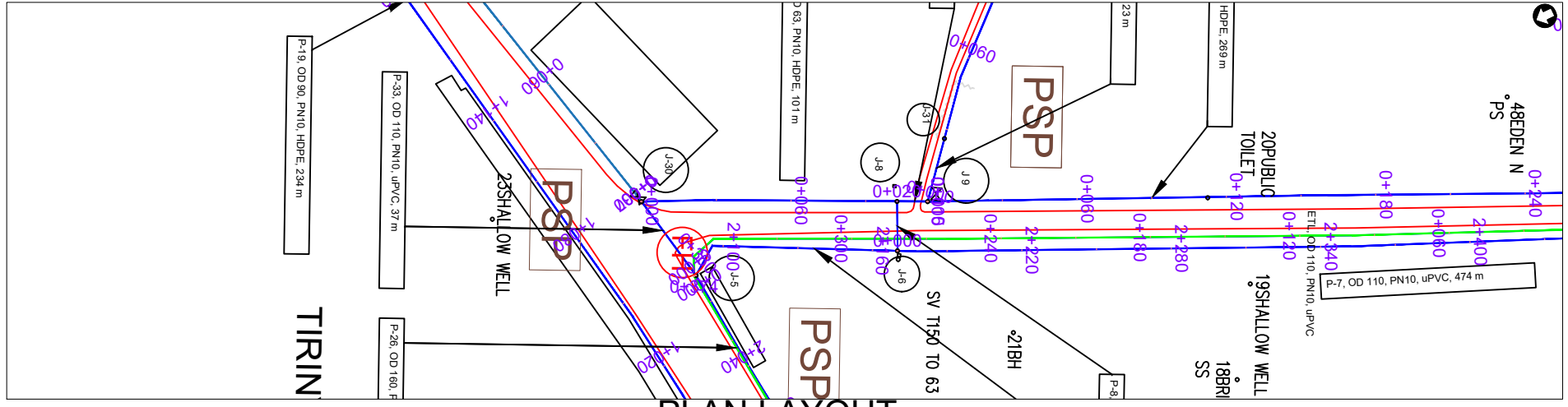
MINISTRY OF WATER AND ENVIRONMENT

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

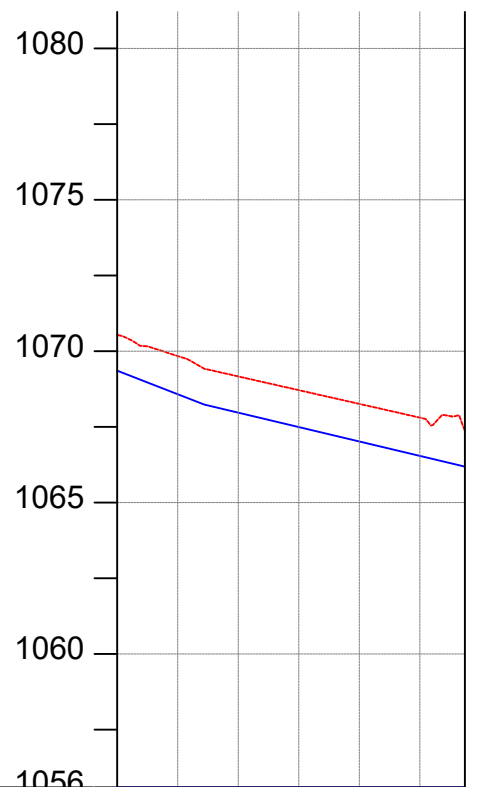
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_8 (CH 0+000.00 - 0+036.84)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_8 (CH 0+000.00 - 0+036.84)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE INVERT(m)
0+000	1070.538	1069.438
0+040	1069.838	1068.738
0+080	1069.164	1068.064
0+115	1068.711	1067.611
	1068.257	1067.157
	1067.804	1066.704
	1067.369	1066.269

P-10, OD 63, PN10, HDPE, 101 m

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

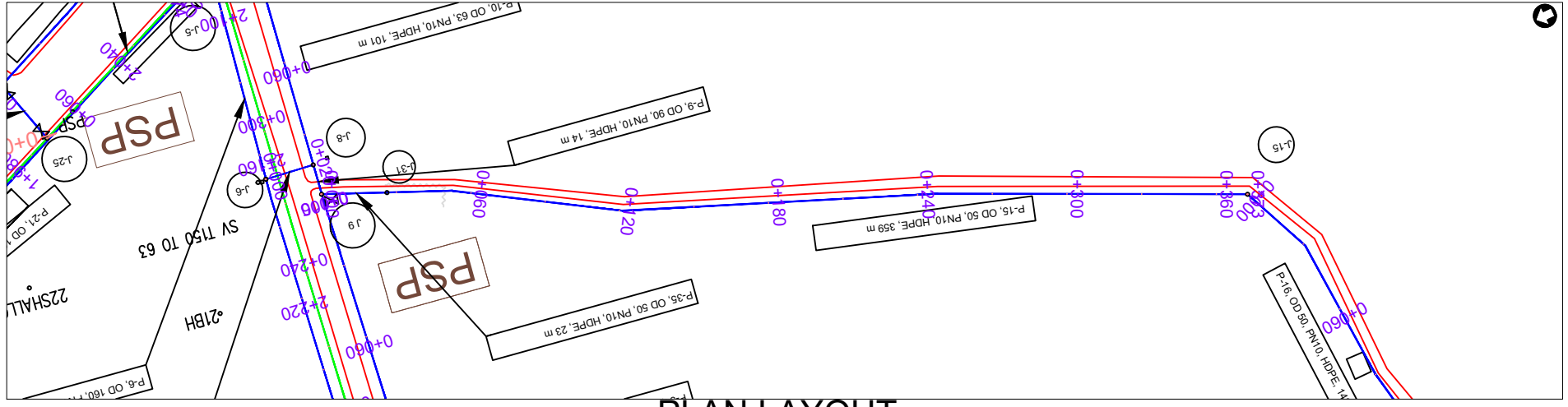
CONSULTANT:



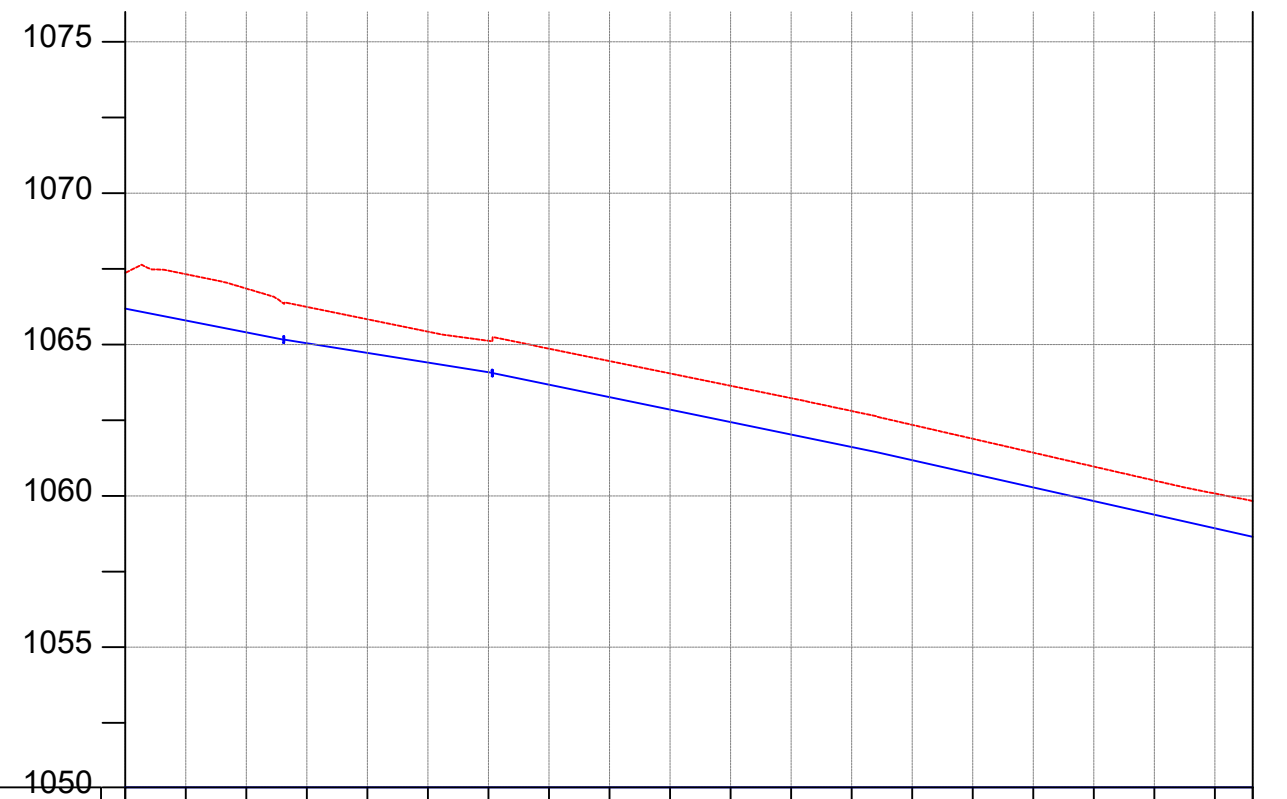


Drawing Title:
TIRINYI TOWN
DL_9 (CH 0+000.00 - 0+114.88)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_9 (CH 0+000.00 - 0+114.88)
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+373
GROUND LEVEL(m)	1067.369	1067.323	1066.847	1066.242	1065.833	1065.423	1065.123	1064.864	1064.454	1064.045	1063.636	1063.226	1062.803	1062.346	1061.887	1061.427	1060.968	1060.508	1060.078	1059.831
PIPE DETAILS	OD 50, PN10, HDPE, 373 m																			
PIPE INVERT(m)	1066.269	1066.223	1065.747	1065.142	1064.733	1064.323	1064.023	1063.764	1063.354	1062.945	1062.536	1062.126	1061.703	1061.246	1060.787	1060.327	1059.868	1059.408	1058.978	1058.731

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

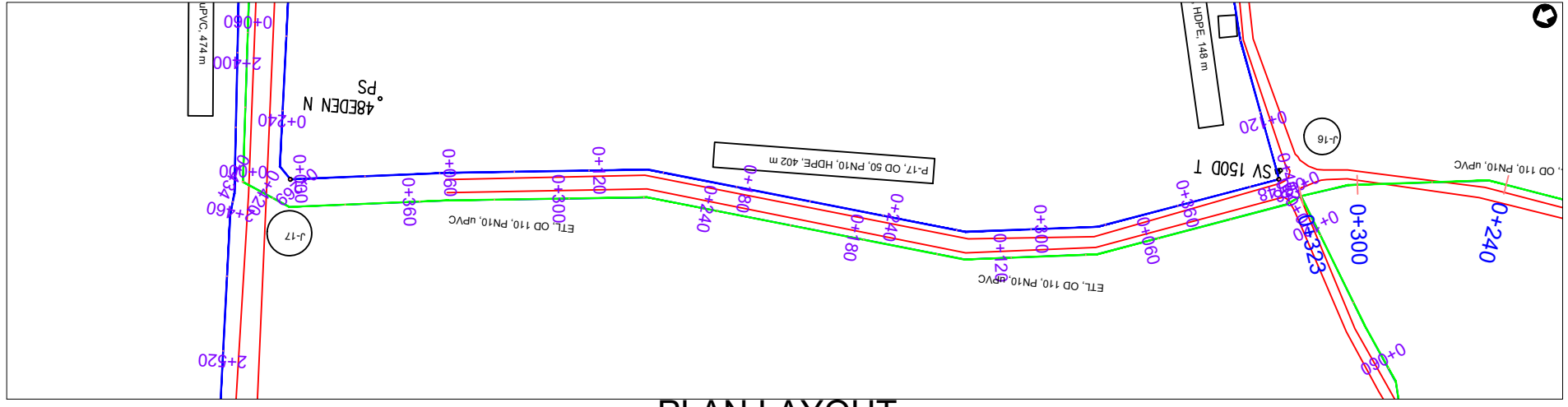
MINISTRY OF WATER AND ENVIRONMENT

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

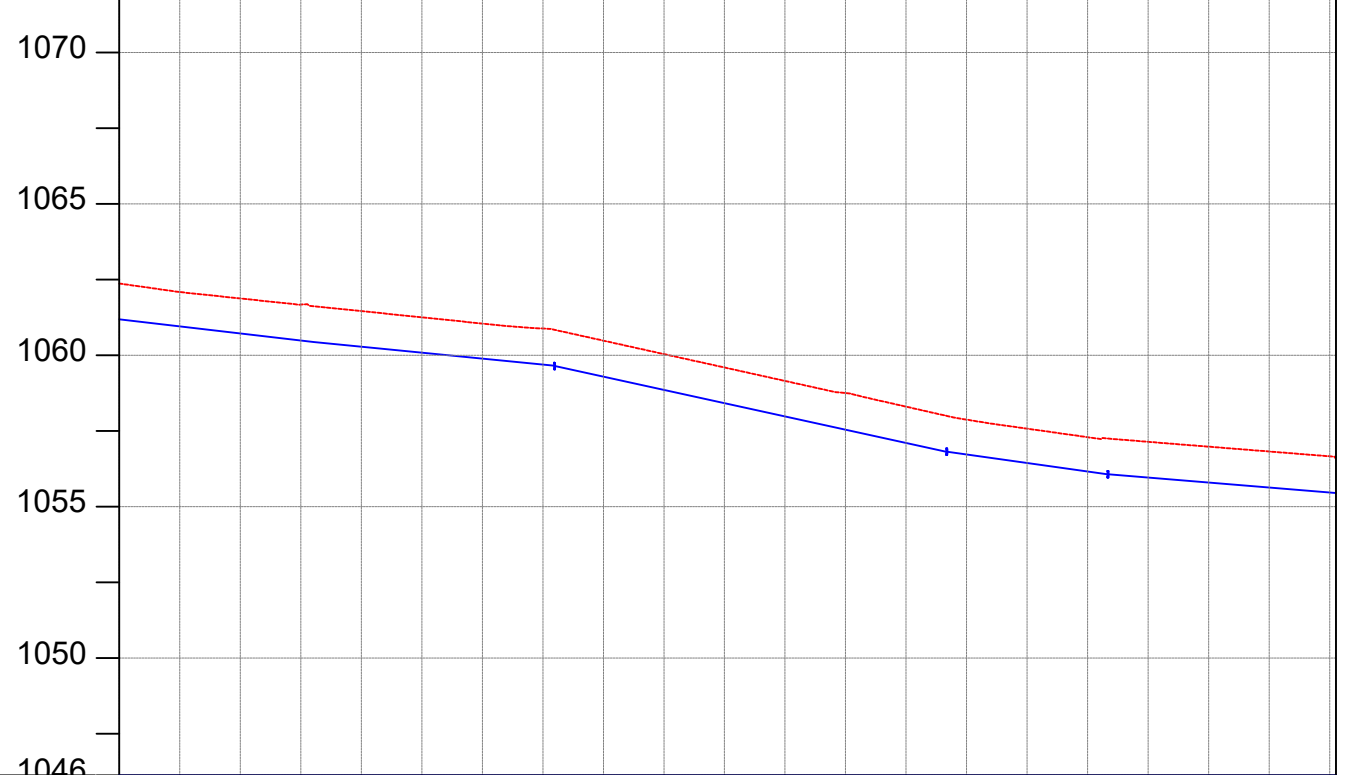
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_10 (CH 0+000.00 - 0+372.54)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_10 (CH 0+000.00 - 0+372.54)
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)	1062.371	1062.088	1061.877	1061.674	1061.459	1061.253	1061.048	1060.883	1060.483	1060.039	1059.595	1059.152	1058.752	1058.302	1057.874	1057.576	1057.293	1057.141	1056.980	1056.821
PIPE DETAILS	P-17, OD 50, PN10, HDPE, 402 m																			
PIPE INVERT(m)	1061.271	1060.988	1060.777	1060.574	1060.359	1060.153	1059.948	1059.783	1059.383	1058.939	1058.495	1058.052	1057.652	1057.202	1056.774	1056.476	1056.193	1056.041	1055.880	1055.721

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

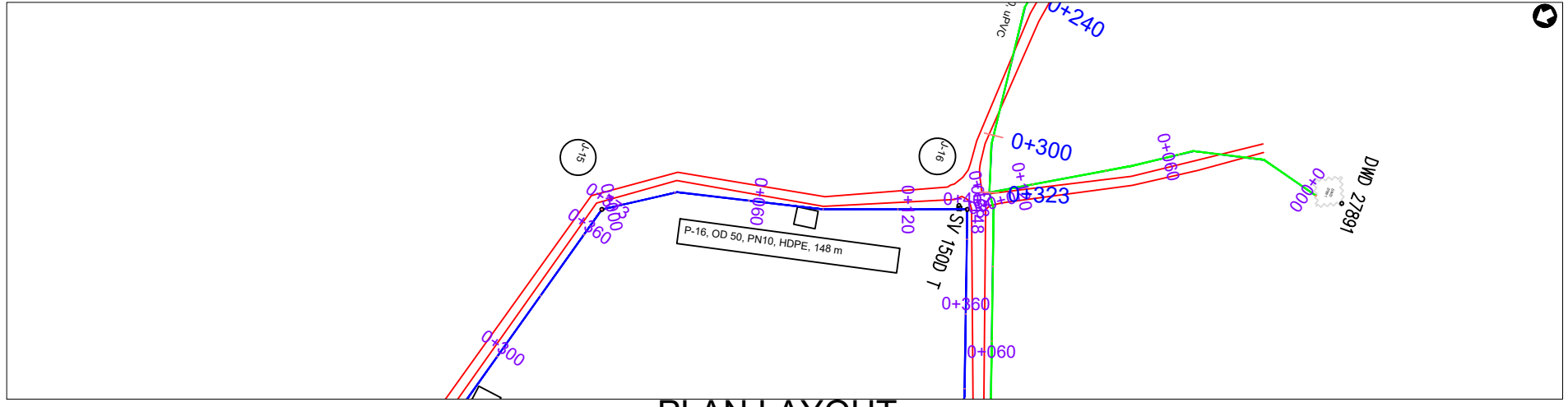
MINISTRY OF WATER AND ENVIRONMENT

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

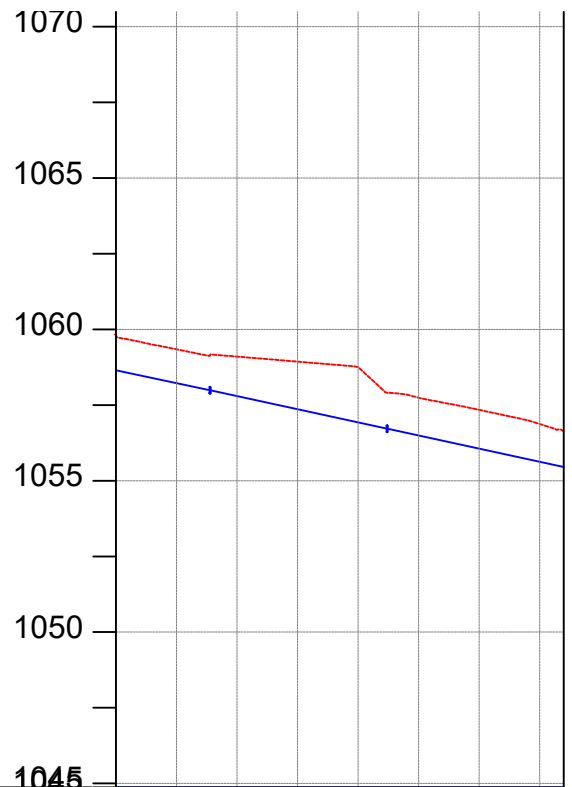
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_12 (CH 0+000.00 - 0+402.06)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by:	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_12 (CH 0+000.00 - 0+402.06)	
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120		0+148
GROUND LEVEL(m)	1059.831	1059.341	1059.100	1058.935	1058.753	1057.743	1057.341	1056.874	1056.637
PIPE DETAILS	P-16, OD 50, PN10, HDPE, 148 m								
PIPE INVERT(m)	1058.731	1058.241	1058.000	1057.835	1057.653	1056.643	1056.241	1055.774	1055.537

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



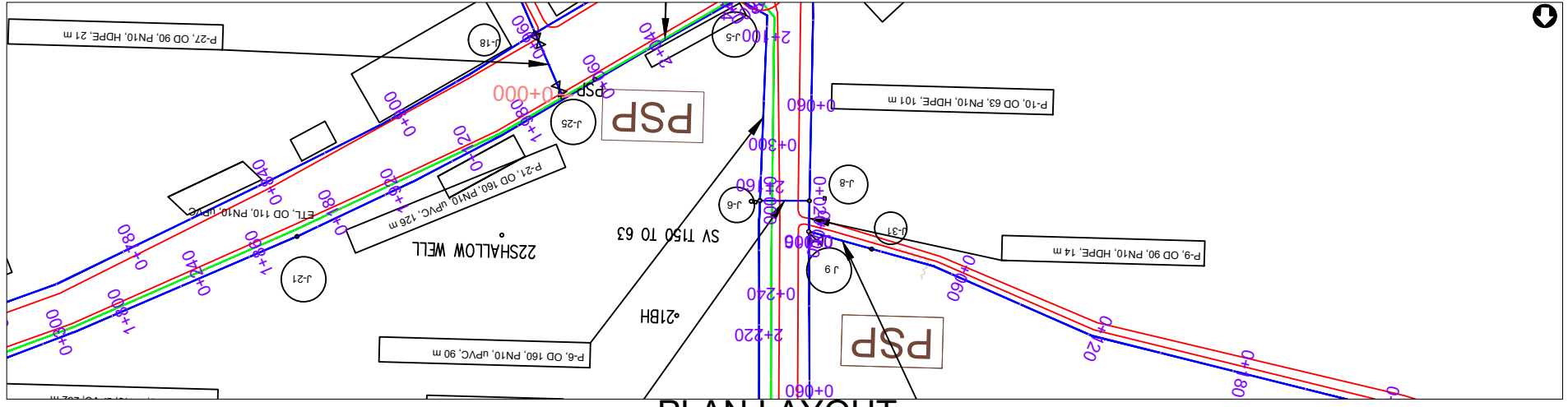
MINISTRY OF WATER AND ENVIRONMENT

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

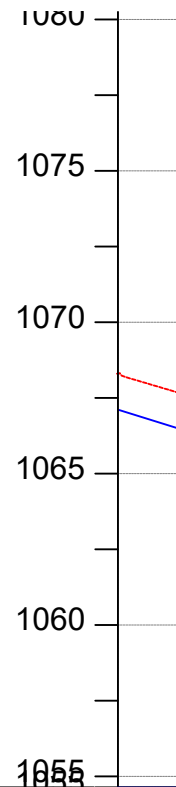
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_13 (CH 0+000.00 - 0+147.92)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_13 (CH 0+000.00 - 0+147.92)
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+000	0+020
GROUND LEVEL(m)	1068.299	1067.676
PIPE DETAILS	P-8, OD 110, PN10, uPVC, 20 m	
PIPE INVERT(m)	1067.199	1066.576

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
	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

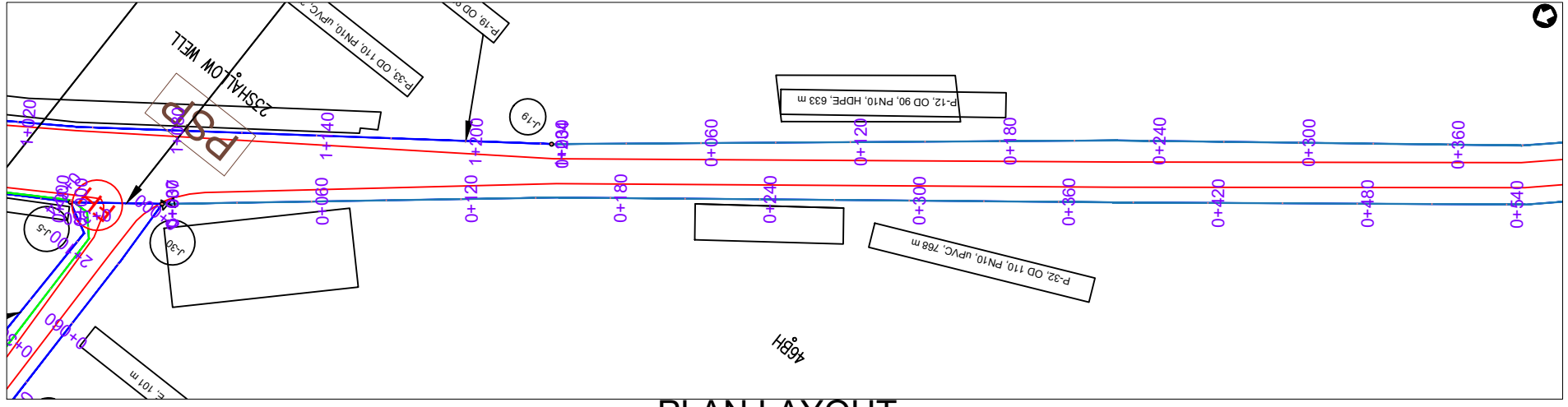
CONSULTANT:



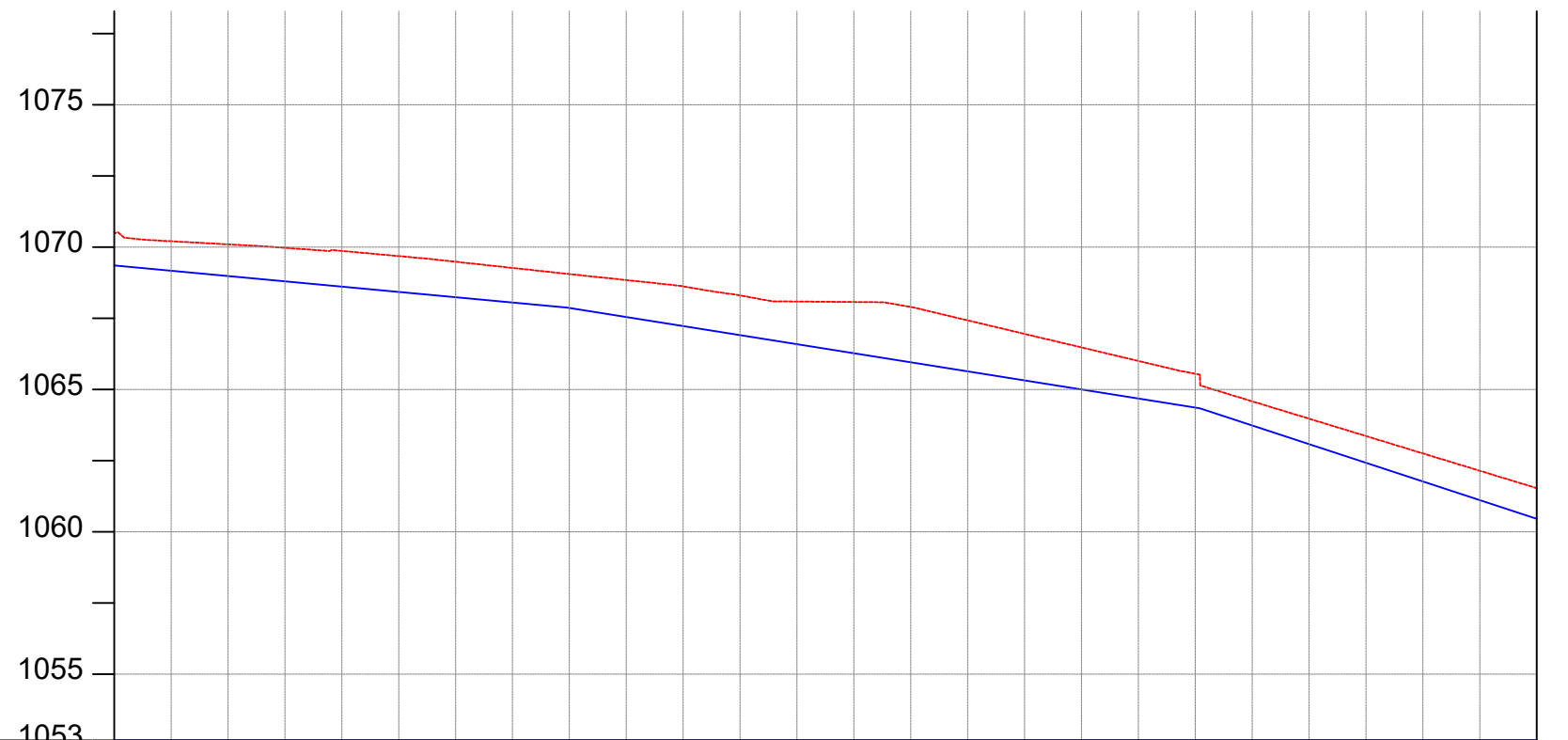


Drawing Title:
TIRINYI TOWN
DL_14 (CH 0+000.00 - 0+019.90)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/DL_14 (CH 0+000.00 - 0+019.90)	
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+480	0+500														
GROUND LEVEL(m)	1070.538	1070.206	1070.097	1069.974	1069.866	1069.684	1069.485	1069.269	1069.052	1068.842	1068.620	1068.302	1068.087	1068.071	1067.896	1067.426	1066.951	1066.476	1066.000	1065.551	1064.582	1063.972	1063.362	1062.752	1062.142	1061.532	1061.532	
PIPE DETAILS	P-32, OD 110, PN10, uPVC, 768 m																											
PIPE INVERT(m)	1069.438	1069.106	1068.997	1068.874	1068.766	1068.584	1068.385	1068.169	1067.952	1067.742	1067.520	1067.202	1066.987	1066.971	1066.796	1066.326	1065.851	1065.376	1064.900	1064.451	1063.482	1062.872	1062.262	1061.652	1061.042	1060.432	1060.432	

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

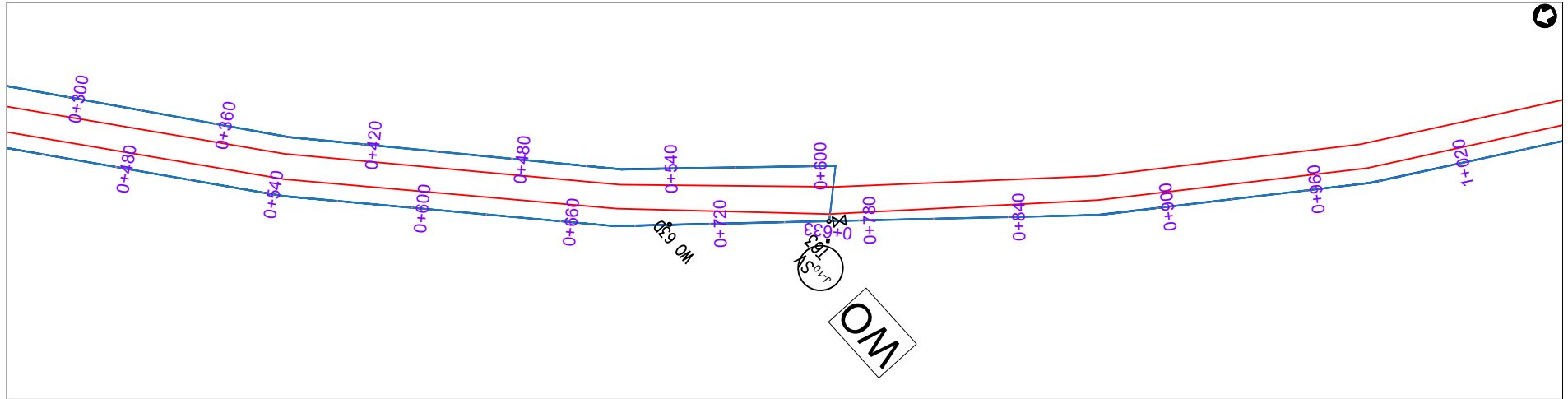
MINISTRY OF WATER AND ENVIRONMENT

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

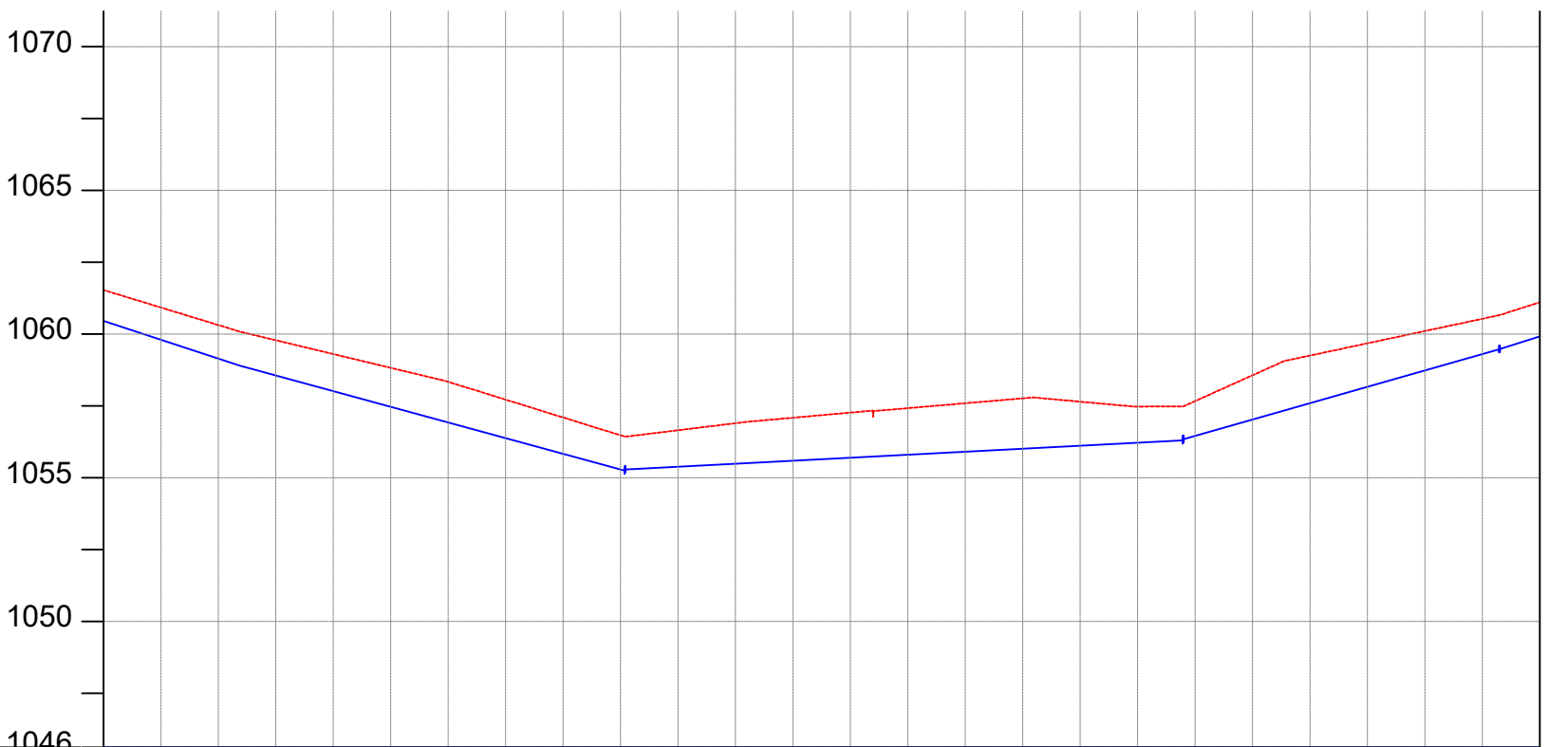
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_19 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	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+640		0+680		0+720		0+760		0+800		0+840		0+880		0+920		0+960		1+000
GROUND LEVEL(m)	1061.532	1060.922	1060.312	1059.784	1059.304	1058.824	1058.337	1057.717	1057.096	1056.476	1056.651	1056.896	1057.086	1057.265	1057.420	1057.591	1057.762	1057.645	1057.476	1057.664	1058.565	1059.250	1059.677	1060.103	1060.530	1061.103
PIPE DETAILS	P-32, OD 110, PN10, uPVC, 768 m														P-11, OD 90, PN10, HDPE, 1022 m											
PIPE INVERT(m)	1060.432	1059.822	1059.212	1058.684	1058.204	1057.724	1057.237	1056.617	1055.996	1055.376	1055.551	1055.796	1055.986	1056.165	1056.320	1056.491	1056.662	1056.545	1056.376	1056.564	1057.465	1058.150	1058.577	1059.003	1059.430	1060.003

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
- Node detail No. 01

REPUBLIC OF UGANDA



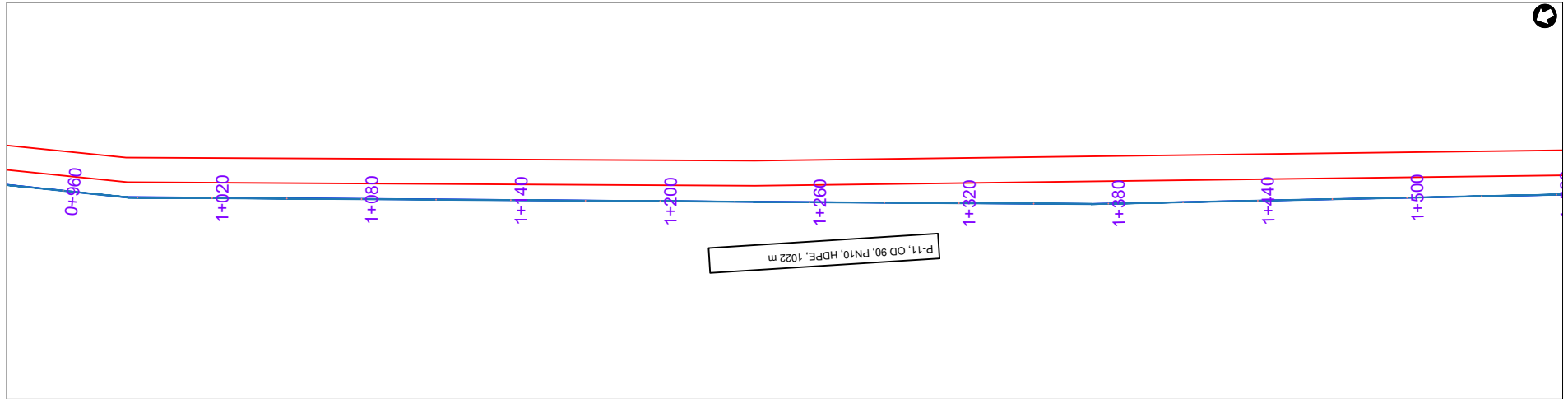
MINISTRY OF WATER AND ENVIRONMENT

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

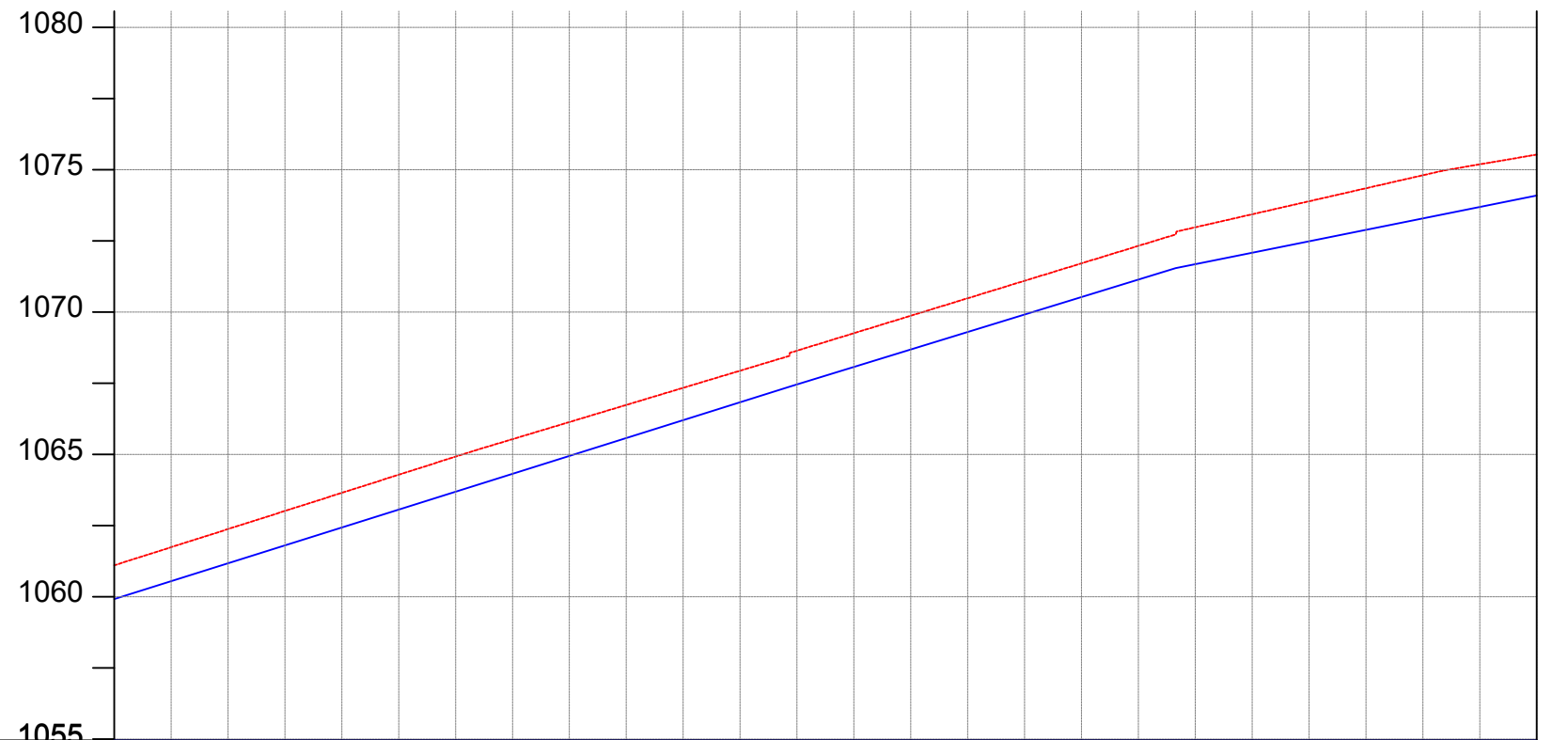
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_19 (CH 0+500.00 - 1+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_19 (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)	1061.103	1061.739	1062.375	1063.012	1063.648	1064.285	1064.921	1065.535	1066.136	1066.737	1067.338	1067.939	1068.644	1069.257	1069.871	1070.484	1071.098	1071.711	1072.325	1072.978	1073.435	1073.892	1074.349	1074.806	1075.189	1075.532		
PIPE DETAILS	P-11, OD 90, PN10, HDPE, 1022 m																											
PIPE INVERT(m)	1060.003	1060.639	1061.275	1061.912	1062.548	1063.185	1063.821	1064.435	1065.036	1065.637	1066.238	1066.839	1067.544	1068.157	1068.771	1069.384	1069.998	1070.611	1071.225	1071.878	1072.335	1072.792	1073.249	1073.706	1074.089	1074.432		

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



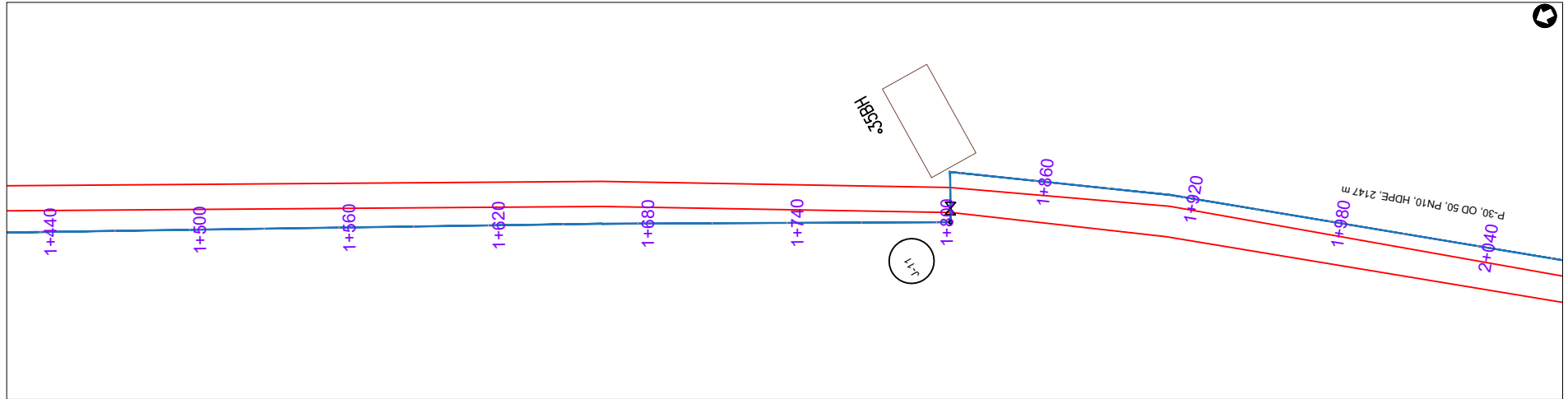
MINISTRY OF WATER AND ENVIRONMENT

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

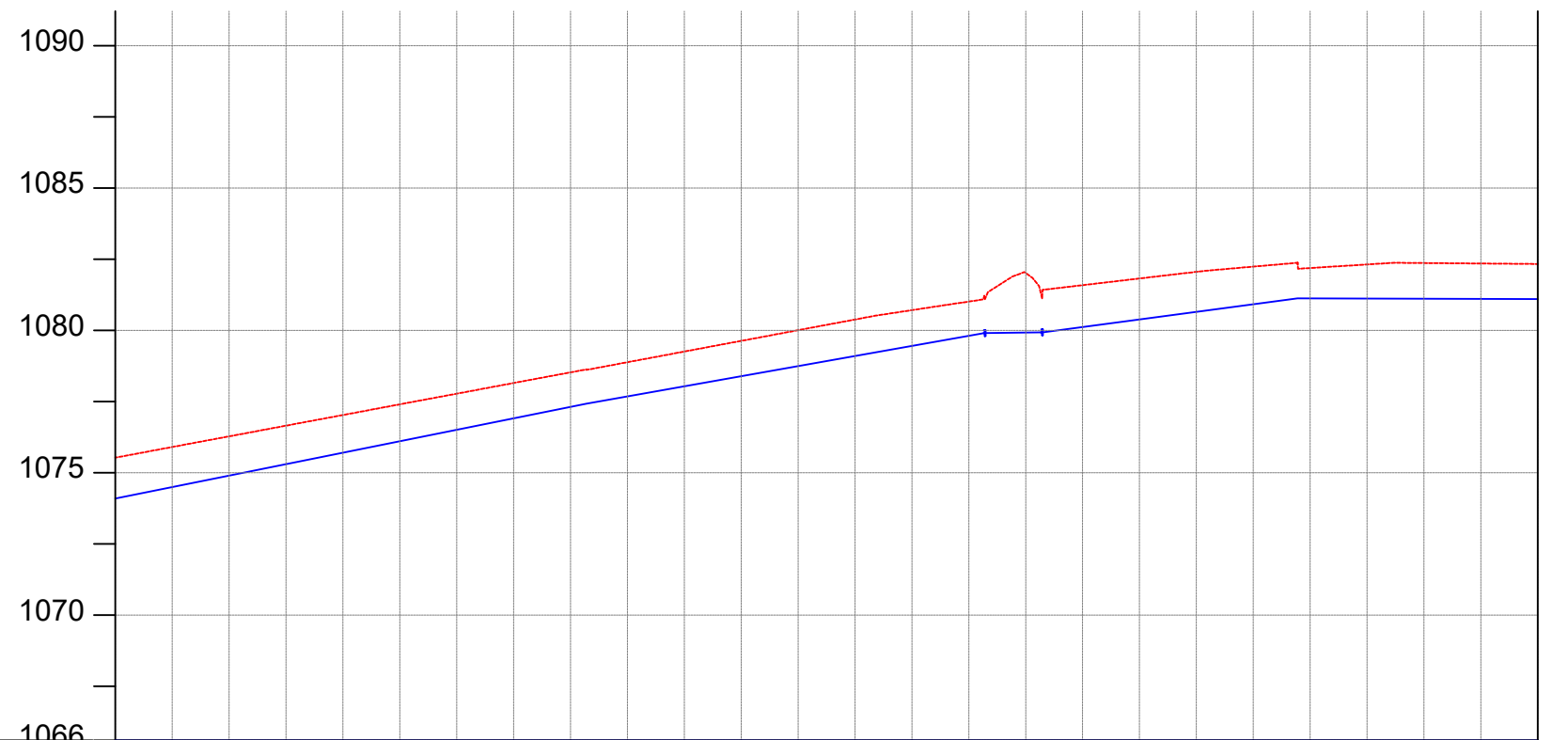
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_19 (CH 1+000.00 - 1+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_19 (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	2+000													
GROUND LEVEL(m)	1075.532	1075.902	1076.276	1076.651	1077.026	1077.401	1077.775	1078.150	1078.525	1078.880	1079.255	1079.630	1080.005	1080.380	1080.709	1081.011	1082.015	1081.587	1081.822	1082.056	1082.239	1082.189	1082.314	1082.365	1082.348	1082.332	2+000
PIPE DETAILS	P-11, OD 90, PN10, HDPE, 1022 m															OD 50, PN10, HDPE											
PIPE INVERT(m)	1074.432	1074.802	1075.176	1075.551	1075.926	1076.301	1076.675	1077.050	1077.425	1077.780	1078.155	1078.530	1078.905	1079.280	1079.609	1079.911	1080.915	1080.487	1080.722	1080.956	1081.139	1081.089	1081.214	1081.265	1081.248	1081.232	2+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. 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

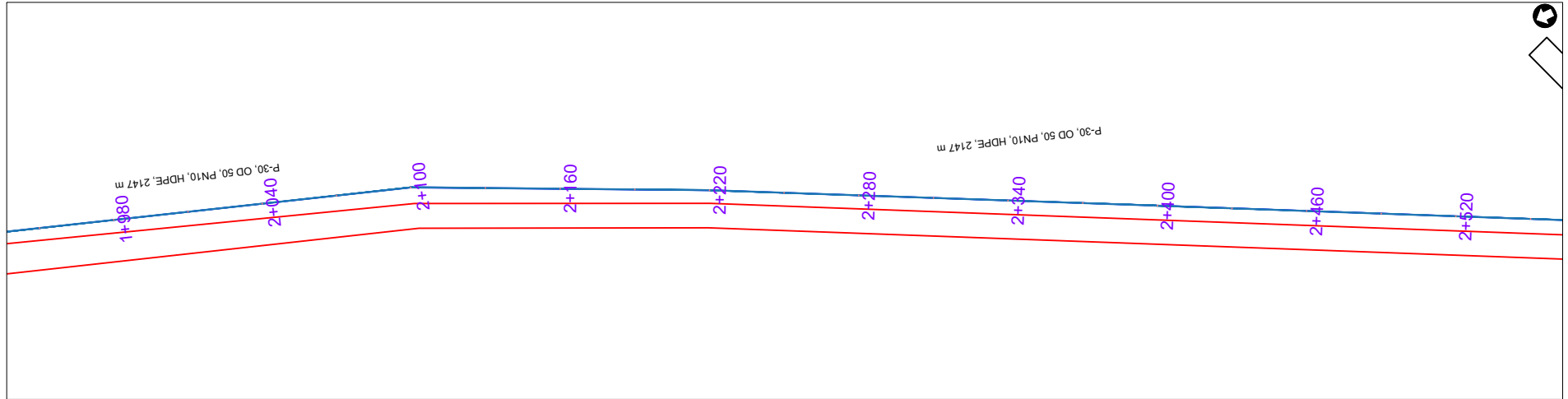
MINISTRY OF WATER AND ENVIRONMENT

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

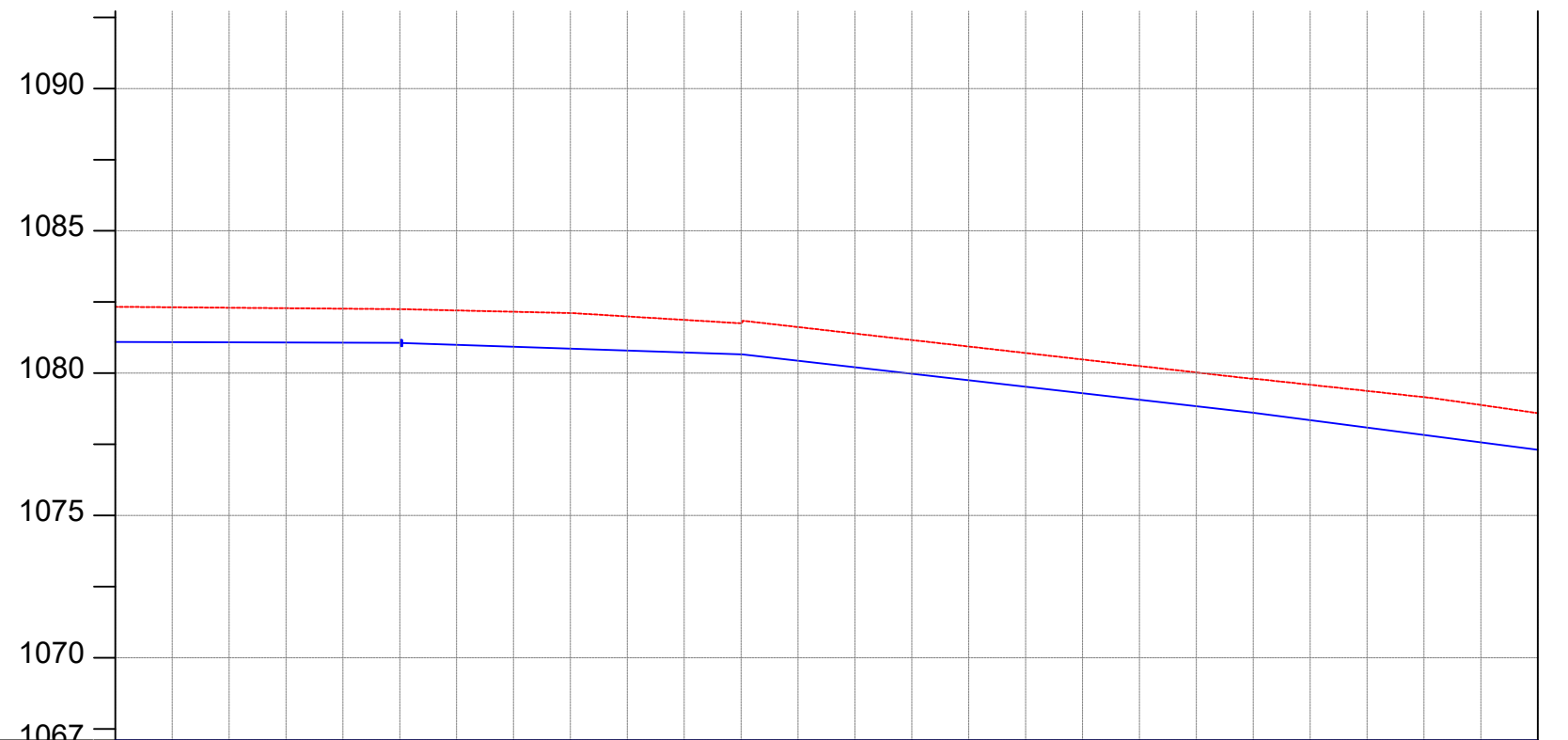
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_19 (CH 1+500.00 - 2+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_19 (CH 1+500.00 - 2+000.00)
Sheet No.: 4	Format: A3



PLAN LAYOUT



CHAINAGE	2+000		2+040		2+080		2+120		2+160		2+200		2+240		2+280		2+320		2+360		2+400		2+440		2+480	2+500		
GROUND LEVEL(m)	1082.332	1082.315	1082.298	1082.282	1082.265	1082.249	1082.203	1082.157	1082.111	1081.993	1081.872	1081.751	1081.620	1081.392	1081.164	1080.936	1080.708	1080.480	1080.252	1080.025	1079.811	1079.593	1079.376	1079.158	1078.882	1078.596	2+500	
PIPE DETAILS	P-30, OD 50, PN10, HDPE, 2147 m																											
PIPE INVERT(m)	1081.232	1081.215	1081.198	1081.182	1081.165	1081.149	1081.103	1081.057	1081.011	1080.893	1080.772	1080.651	1080.520	1080.292	1080.064	1079.836	1079.608	1079.380	1079.152	1078.925	1078.711	1078.493	1078.276	1078.058	1077.782	1077.496		

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

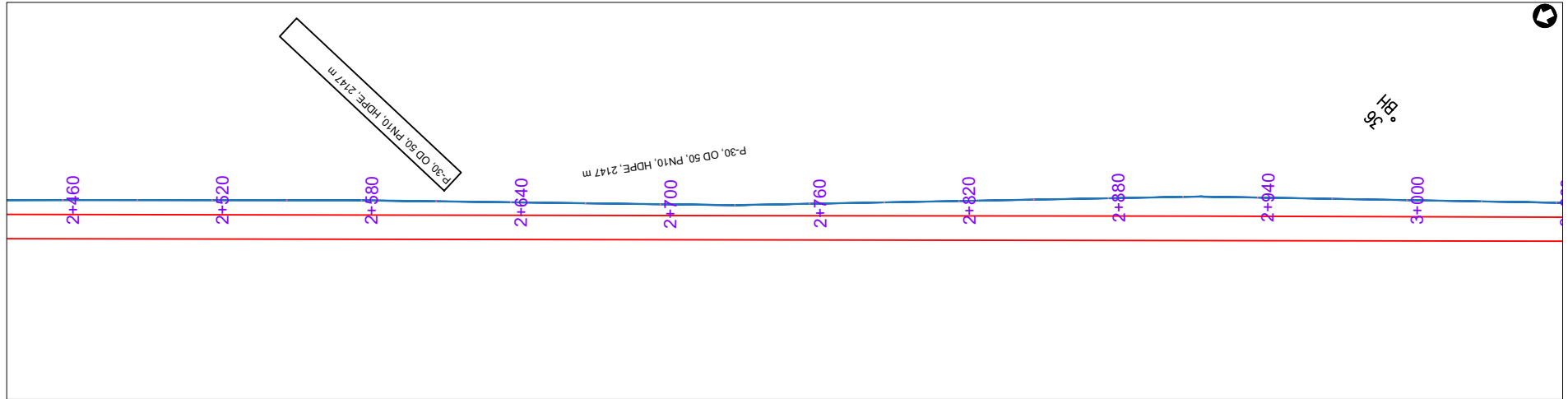
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

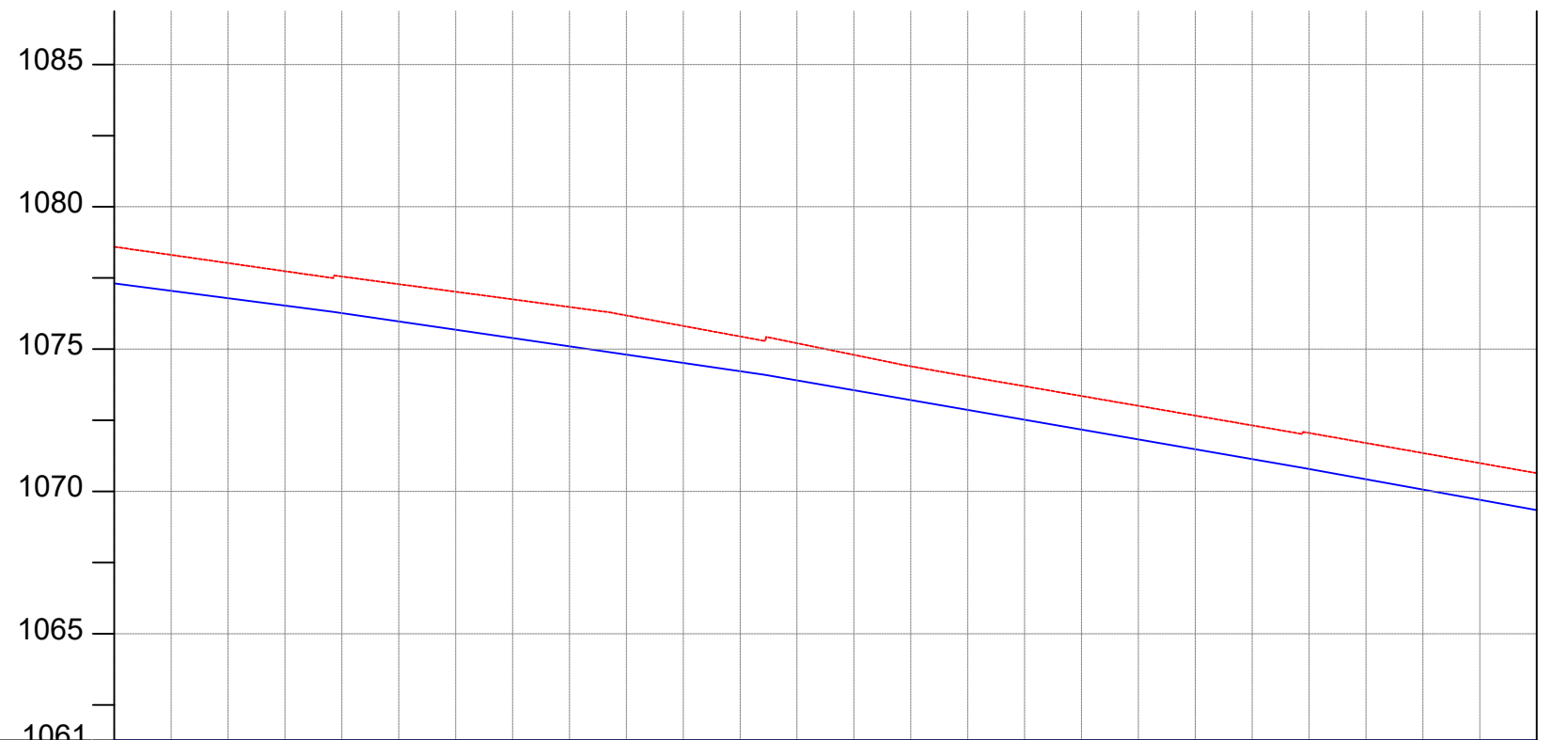


Drawing Title:
TIRINYI TOWN
DL_19 (CH 2+000.00 - 2+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_19 (CH 2+000.00 - 2+500.00)
Sheet No.: 5	Format: A3



PLAN LAYOUT



CHAINAGE	2+500	2+520	2+560	2+600	2+640	2+680	2+720	2+760	2+800	2+840	2+880	2+920	2+960	3+000														
GROUND LEVEL(m)	1078.596	1078.310	1078.024	1077.738	1077.551	1077.284	1077.017	1076.750	1076.482	1076.184	1075.815	1075.446	1075.209	1074.799	1074.398	1074.042	1073.698	1073.353	1073.009	1072.665	1072.321	1072.055	1071.702	1071.349	1070.997	1070.644	1070.291	
PIPE DETAILS	P-30, OD 50, PN10, HDPE, 2147 m																											
PIPE INVERT(m)	1077.496	1077.210	1076.924	1076.638	1076.451	1076.184	1075.917	1075.650	1075.382	1075.084	1074.715	1074.346	1074.109	1073.699	1073.298	1072.942	1072.598	1072.253	1071.909	1071.565	1071.221	1070.955	1070.602	1070.249	1069.897	1069.544	1069.191	1068.838

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



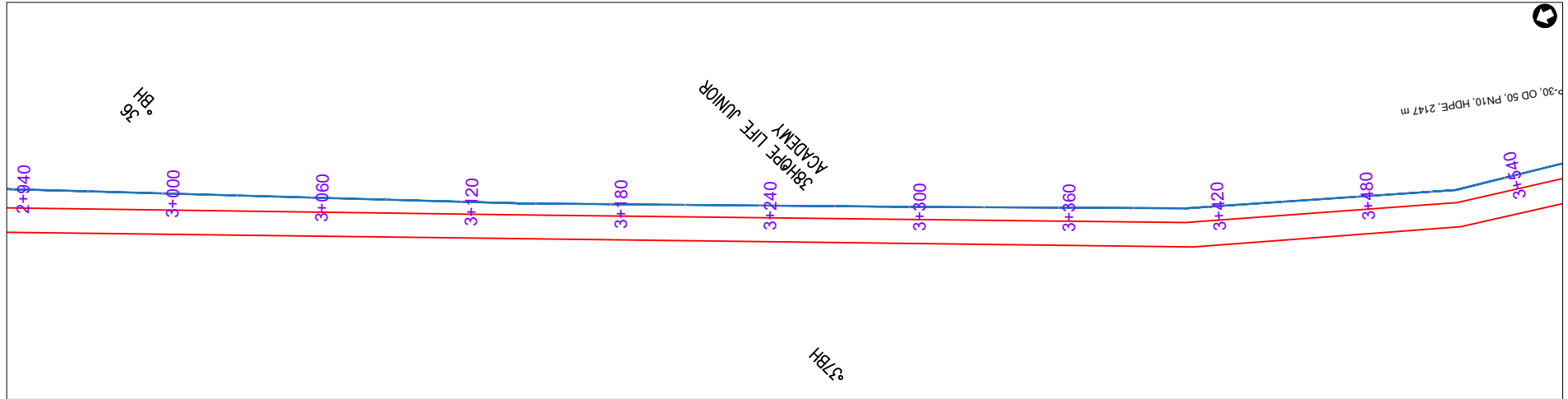
MINISTRY OF WATER AND ENVIRONMENT

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

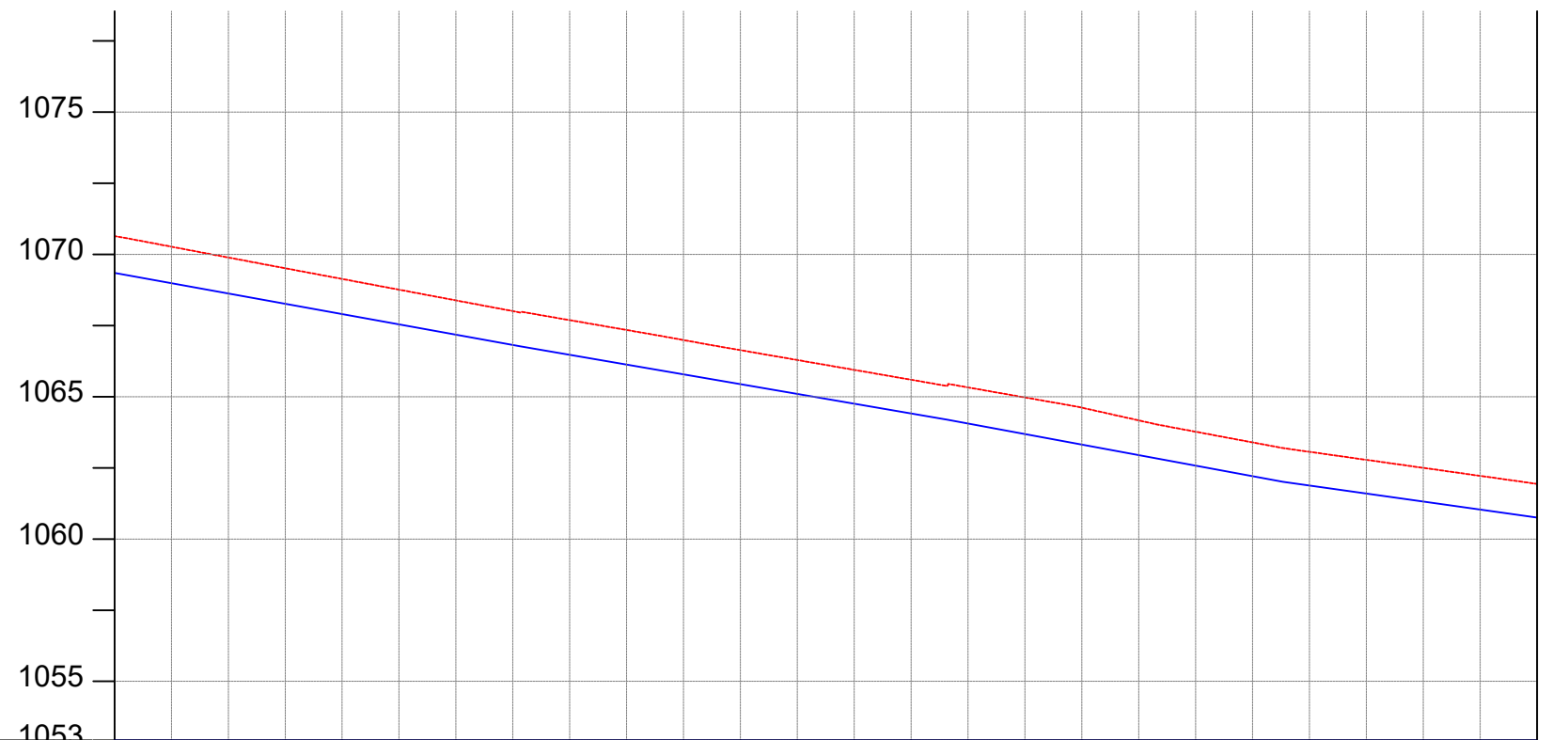
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_19 (CH 2+500.00 - 3+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_19 (CH 2+500.00 - 3+000.00)
Sheet No.: 6	Format: A3



PLAN LAYOUT



CHAINAGE	3+000	3+040	3+080	3+120	3+160	3+200	3+240	3+280	3+320	3+360	3+400	3+440	3+480	3+500														
GROUND LEVEL(m)	1070.644	1070.270	1069.889	1069.513	1069.136	1068.760	1068.383	1068.007	1067.690	1067.344	1066.990	1066.635	1066.289	1065.942	1065.595	1065.326	1064.974	1064.614	1064.168	1063.769	1063.395	1063.064	1062.782	1062.501	1062.219	1061.937	1061.619	
PIPE DETAILS	P-30, OD 50, PN10, HDPE, 2147 m																											
PIPE INVERT(m)	1069.544	1069.170	1068.789	1068.413	1068.036	1067.660	1067.283	1066.907	1066.590	1066.244	1065.890	1065.535	1065.189	1064.842	1064.495	1064.226	1063.874	1063.514	1063.068	1062.669	1062.295	1061.964	1061.682	1061.401	1061.119	1060.837	1060.555	

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

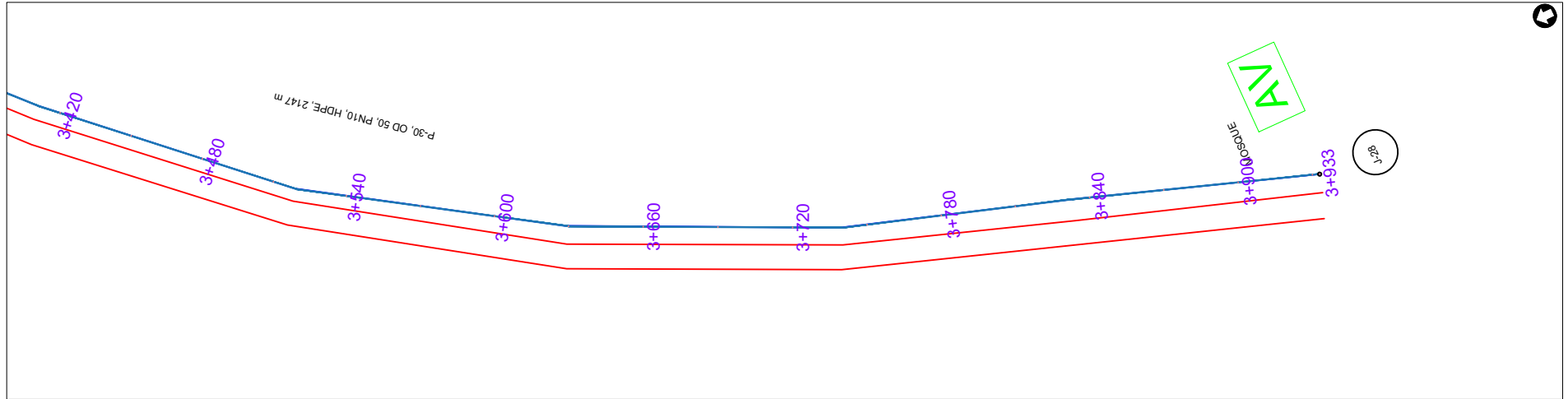
MINISTRY OF WATER AND ENVIRONMENT

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

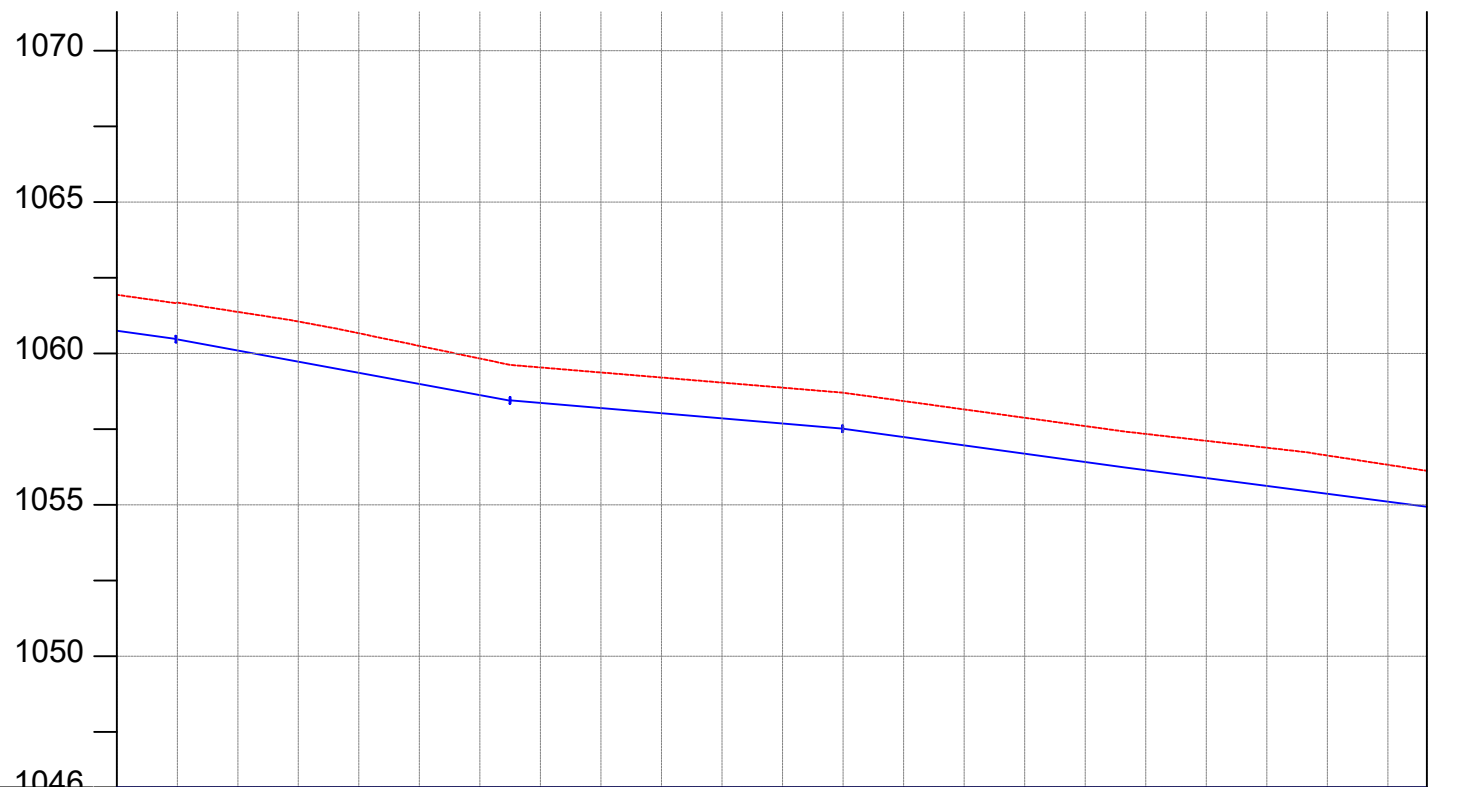


Drawing Title:
TIRINYI TOWN
DL_19 (CH 3+000.00 - 3+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_19 (CH 3+000.00 - 3+500.00)
Sheet No.: 7	Format: A3



PLAN LAYOUT



CHAINAGE	3+500	3+520	3+560	3+600	3+640	3+680	3+720	3+760	3+800	3+840	3+880	3+920	3+933												
GROUND LEVEL(m)	1061.937	1061.682	1061.373	1061.054	1060.667	1060.249	1059.832	1059.539	1059.372	1059.205	1059.038	1058.871	1058.703	1058.428	1058.152	1057.876	1057.601	1057.342	1057.114	1056.886	1056.630	1056.322	1056.123	1055.023	
PIPE DETAILS	P-30, OD 50, PN10, HDPE, 2147 m																								
PIPE INVERT(m)	1060.837	1060.582	1060.273	1059.954	1059.567	1059.149	1058.732	1058.439	1058.272	1058.105	1057.938	1057.771	1057.603	1057.328	1057.052	1056.776	1056.501	1056.242	1056.014	1055.786	1055.530	1055.222	1055.023		

AMENDMENTS

No	Date	Revision

NOTES

1. All dimensions are in metres unless stated otherwise.
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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
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

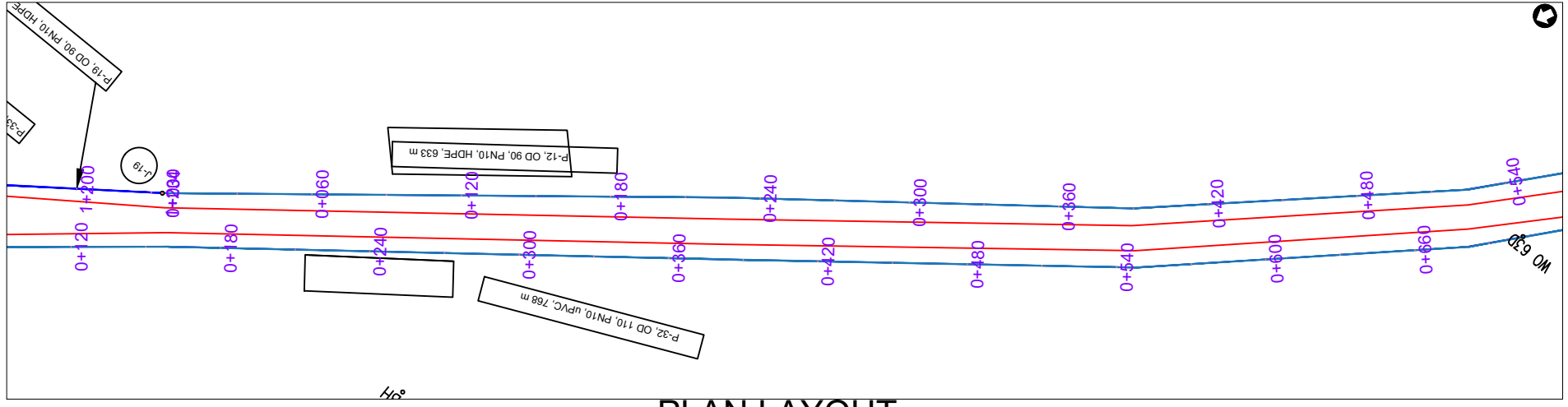
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

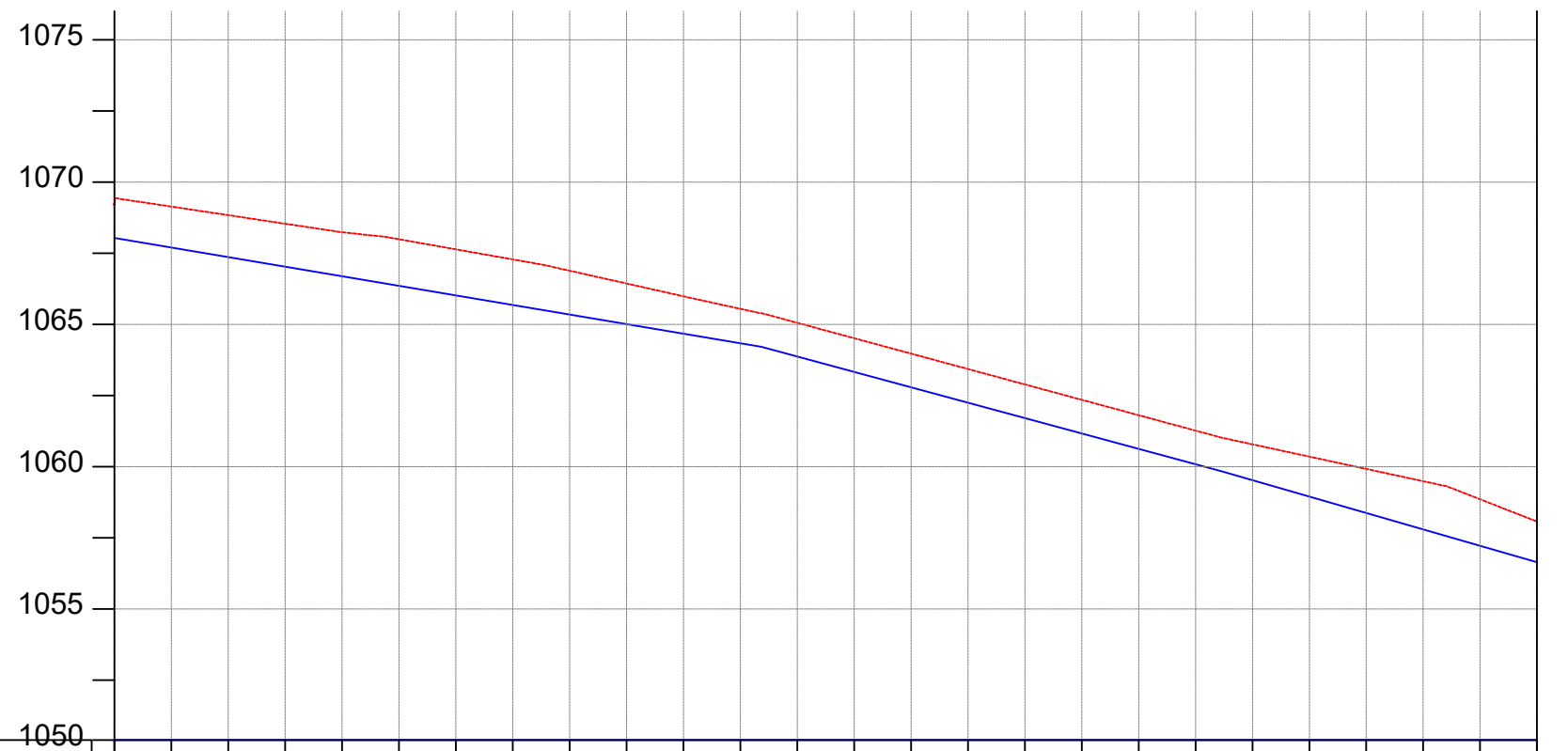


Drawing Title:
TIRINYI TOWN
DL_19 (CH 3+500.00 - 3+932.92)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_19 (CH 3+500.00 - 3+932.92)
Sheet No.: 8	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)	1069.220	1069.139	1068.838	1068.537	1068.237	1067.991	1067.637	1067.284	1066.886	1066.436	1065.987	1065.546	1065.055	1064.514	1063.973	1063.431	1062.890	1062.349	1061.808	1061.267	1060.784	1060.352	1059.921	1059.489	1058.854	1058.072		
PIPE DETAILS	P-12, OD 90, PN10, HDPE, 633 m																											
PIPE INVERT(m)	1068.120	1068.039	1067.738	1067.437	1067.137	1066.891	1066.537	1066.184	1065.786	1065.336	1064.887	1064.446	1063.955	1063.414	1062.873	1062.331	1061.790	1061.249	1060.708	1060.167	1059.684	1059.252	1058.821	1058.389	1057.754	1056.972		

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

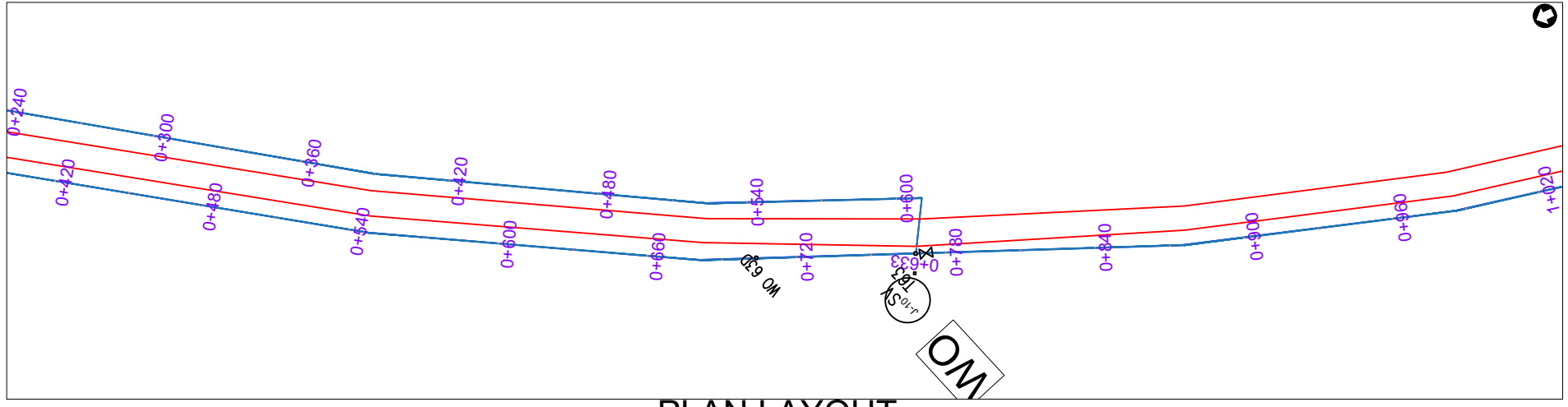
MINISTRY OF WATER AND ENVIRONMENT

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

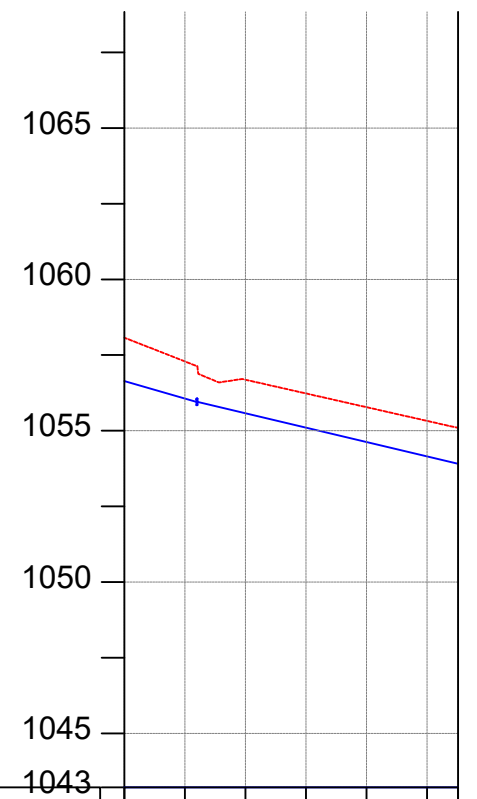
CONSULTANT:

Drawing Title:
TIRINYI TOWN
DL_20 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_20 (CH 0+000.00 - 0+500.00)
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520	0+560	0+600	0+610
GROUND LEVEL(m)	1058.072	1057.291	1056.685	1056.232	1055.779
PIPE DETAILS	P-12, OD 90, PN10, HDPE, 633 m				
PIPE INVERT(m)	1056.972	1056.191	1055.585	1055.132	1054.679
	1054.226	1053.994			

AMENDMENTS

No	Date	Revision

NOTES

1. All dimensions are in metres unless stated otherwise.
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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
- (N01) Node detail No. 01

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

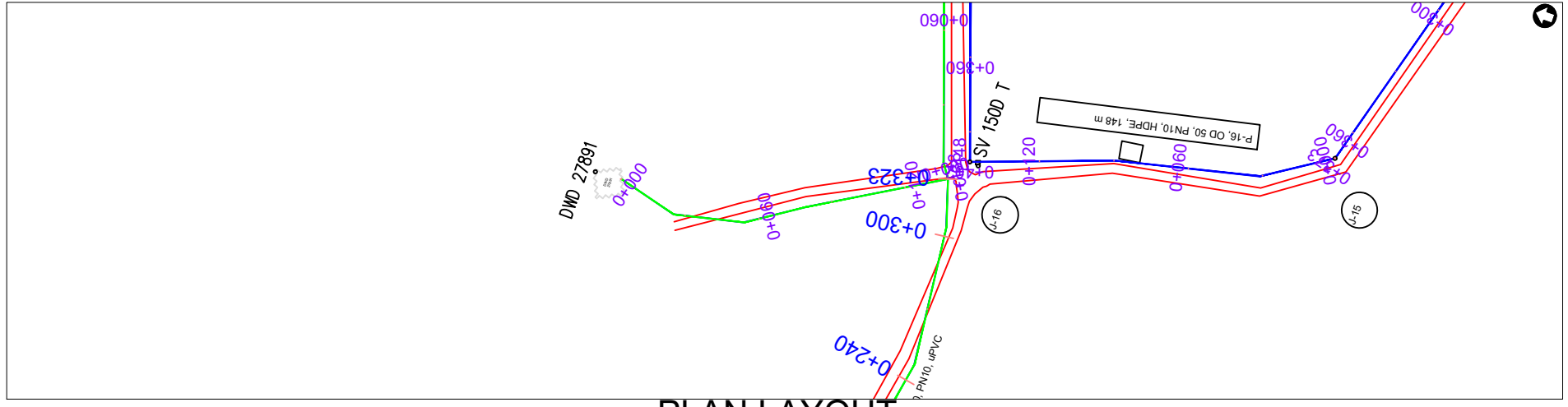
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

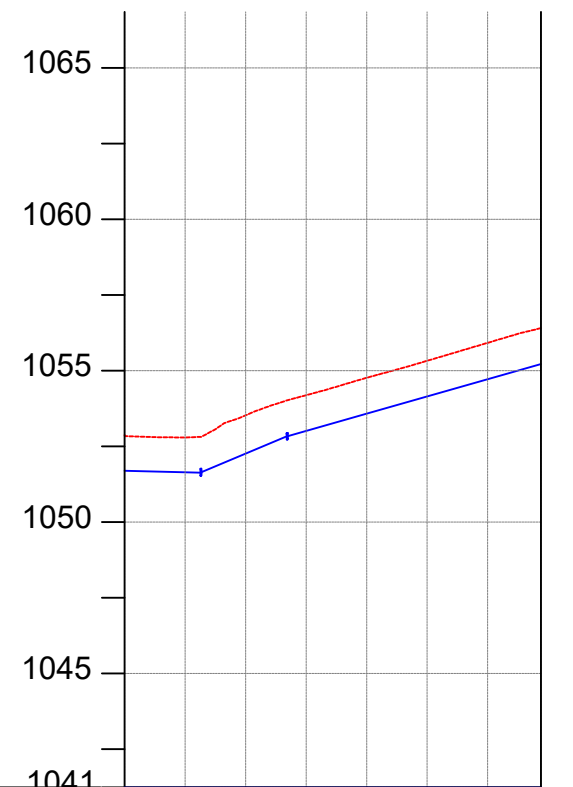


Drawing Title:
TIRINYI TOWN
DL_20 (CH 0+500.00 - 0+610.22)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/DL_20 (CH 0+500.00 - 0+610.22)
Sheet No.: 2	Format: A3



PLAN LAYOUT



CHAINAGE	0+000		0+040		0+080		0+120	0+138
GROUND LEVEL(m)	1052.880	1052.794	1053.524	1054.189	1054.766	1055.327	1055.920	1056.404
PIPE DETAILS	— OD 110, PN10, uPVC —							
PIPE INVERT(m)	1051.780	1051.694	1052.424	1053.089	1053.666	1054.227	1054.820	1055.304

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

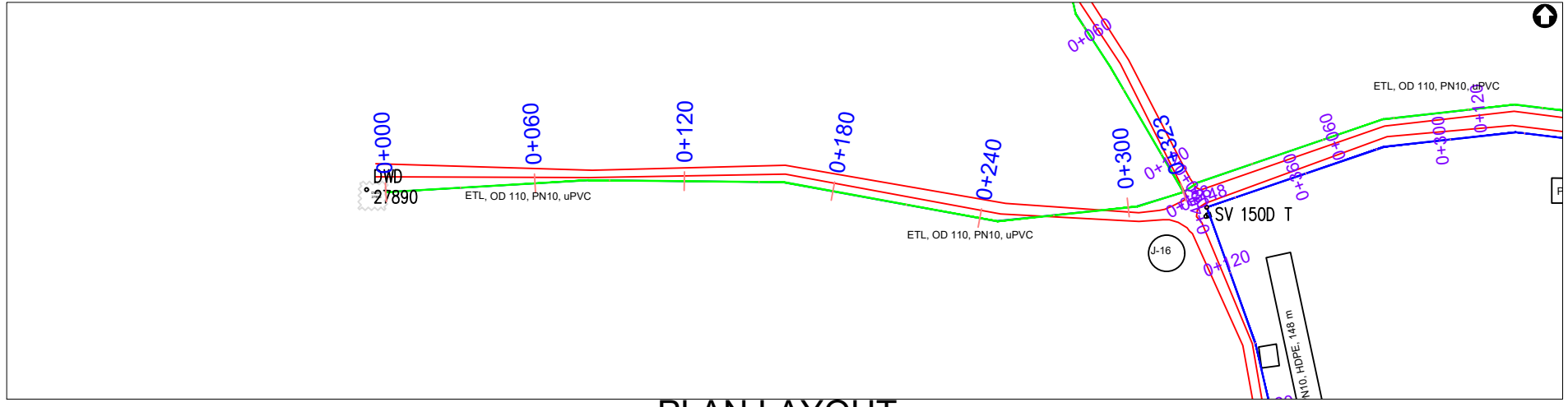
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

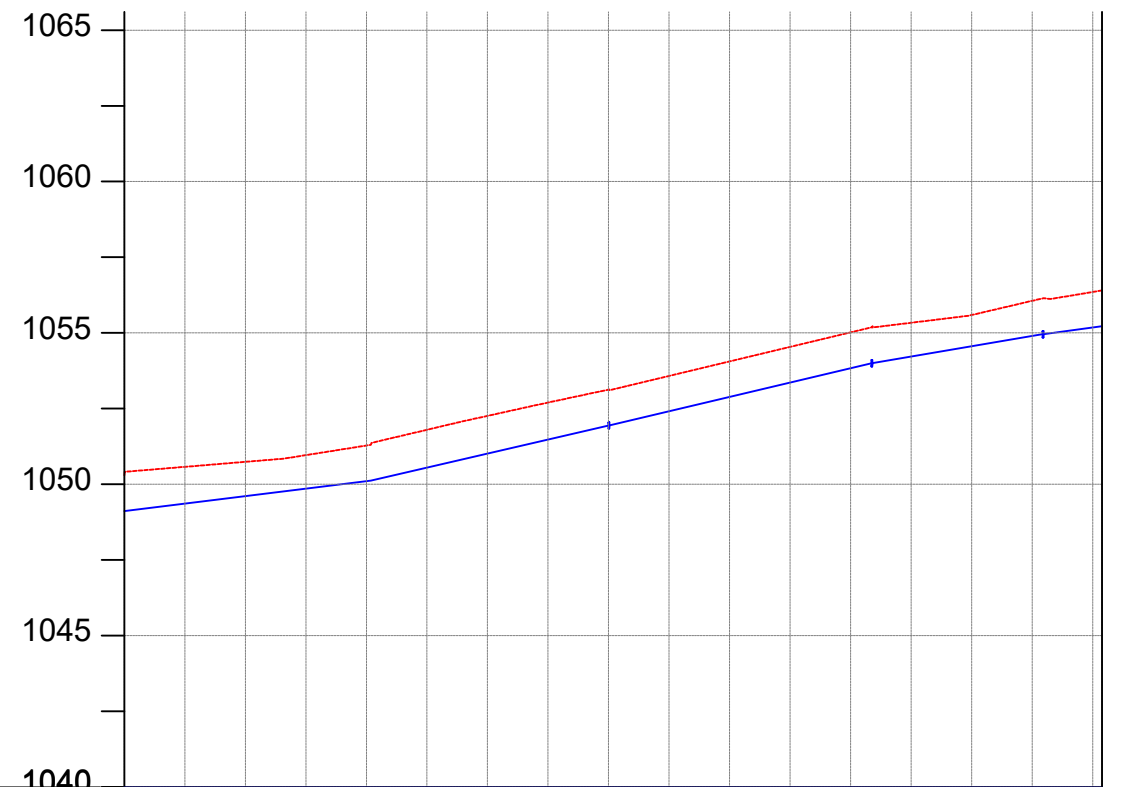


Drawing Title:
TIRINYI TOWN
ETL-1 (CH 0+000.00 - 0+137.59)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-1 (CH 0+000.00 - 0+137.59)
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+323.9							
GROUND LEVEL(m)	1050.298	1050.576	1050.741	1050.962	1051.280	1051.800	1052.259	1052.699	1053.126	1053.580	1054.060	1054.540	1055.019	1055.335	1055.591	1056.060
PIPE DETAILS	OD 110, PN10, uPVC															
PIPE INVERT(m)	1049.198	1049.476	1049.641	1049.862	1050.180	1050.700	1051.159	1051.599	1052.026	1052.480	1052.960	1053.440	1053.919	1054.235	1054.491	1054.960

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

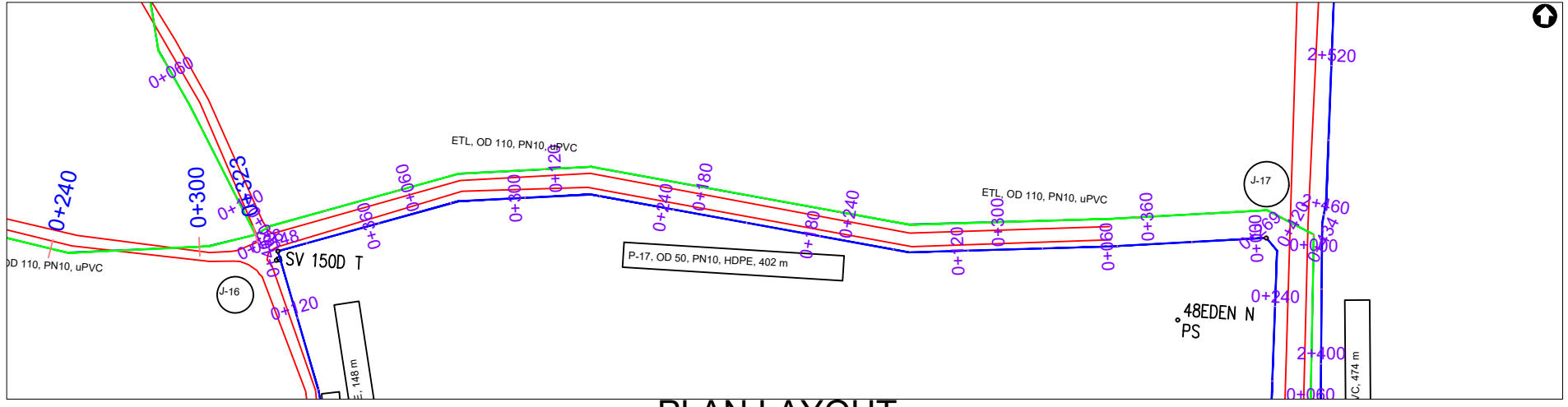
MINISTRY OF WATER AND ENVIRONMENT

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

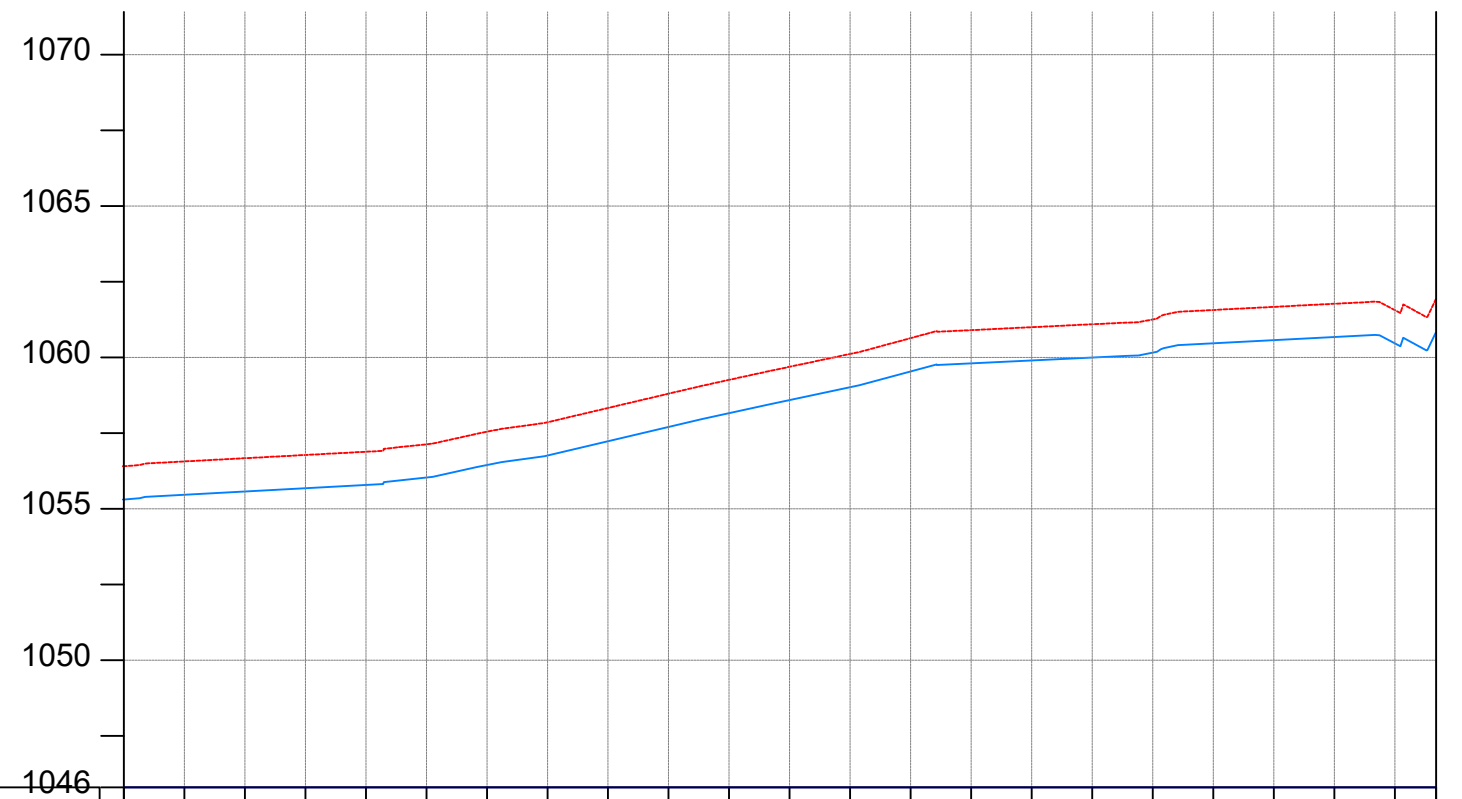
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-2 (CH 0+000.00 - 0+323.09)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-2 (CH 0+000.00 - 0+323.09)
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+434											
GROUND LEVEL(m)	1056.404	1056.565	1056.672	1056.779	1056.885	1057.132	1057.546	1057.860	1058.331	1058.803	1059.259	1059.692	1060.115	1060.639	1060.902	1061.000	1061.097	1061.258	1061.568	1061.671	1061.773	1061.564	
PIPE DETAILS	— OD 110, PN10, uPVC —																						
PIPE INVERT(m)	1055.304	1055.465	1055.572	1055.679	1055.785	1056.032	1056.446	1056.760	1057.231	1057.703	1058.159	1058.592	1059.015	1059.539	1059.802	1059.900	1059.997	1060.158	1060.468	1060.571	1060.673	1060.464	

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

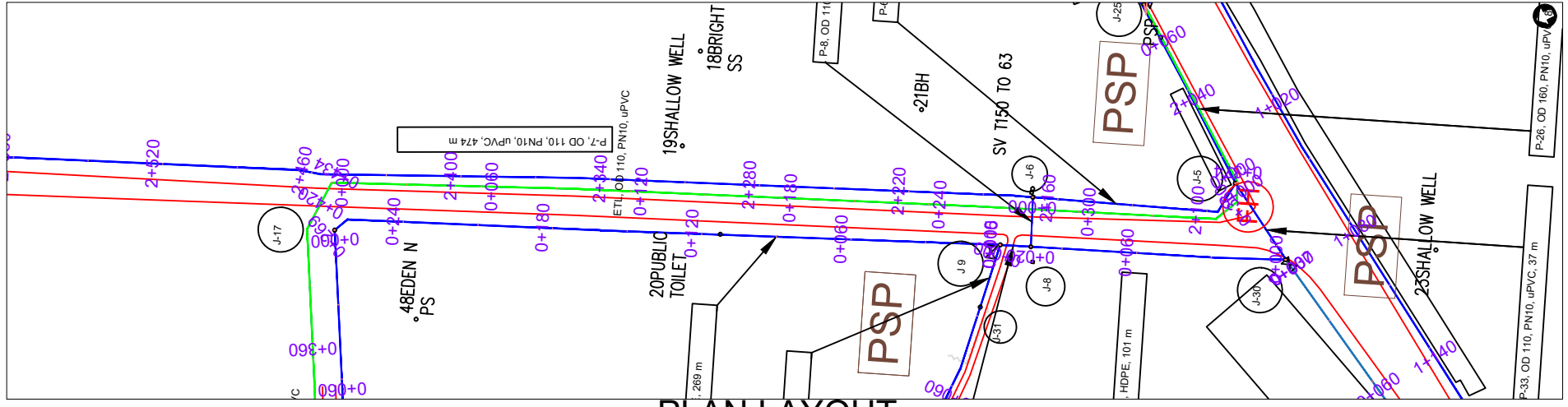
MINISTRY OF WATER AND ENVIRONMENT

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

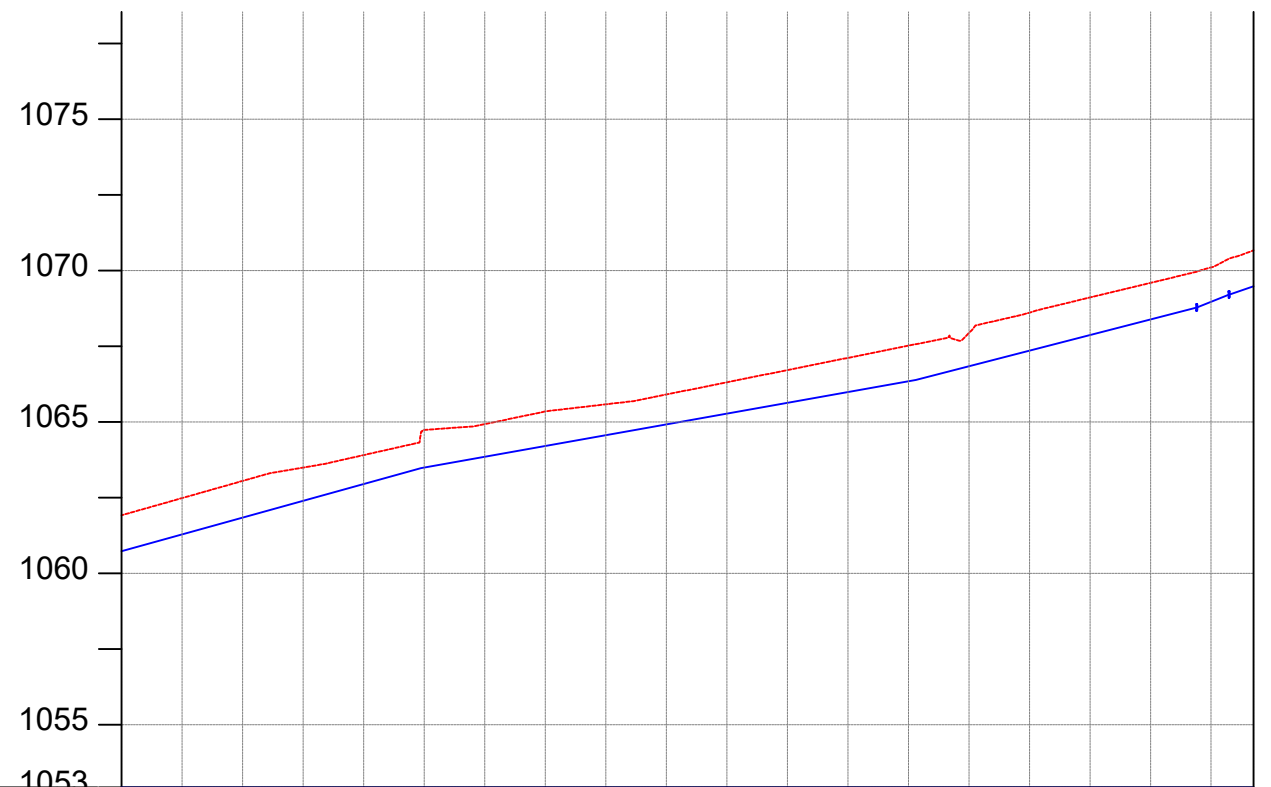
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-3 (CH 0+000.00 - 0+433.65)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-3 (CH 0+000.00 - 0+433.65)
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+374										
GROUND LEVEL(m)	1061.920	1062.487	1063.054	1063.493	1063.908	1064.738	1064.930	1065.349	1065.585	1065.909	1066.312	1066.715	1067.119	1067.522	1067.940	1068.614	1069.114	1069.597	1070.107	1070.669	
PIPE DETAILS	OD 110, PN10, uPVC																				
PIPE INVERT(m)	1060.820	1061.387	1061.954	1062.393	1062.808	1063.638	1063.830	1064.249	1064.485	1064.809	1065.212	1065.615	1066.019	1066.422	1066.840	1067.514	1068.014	1068.497	1069.007	1069.569	

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

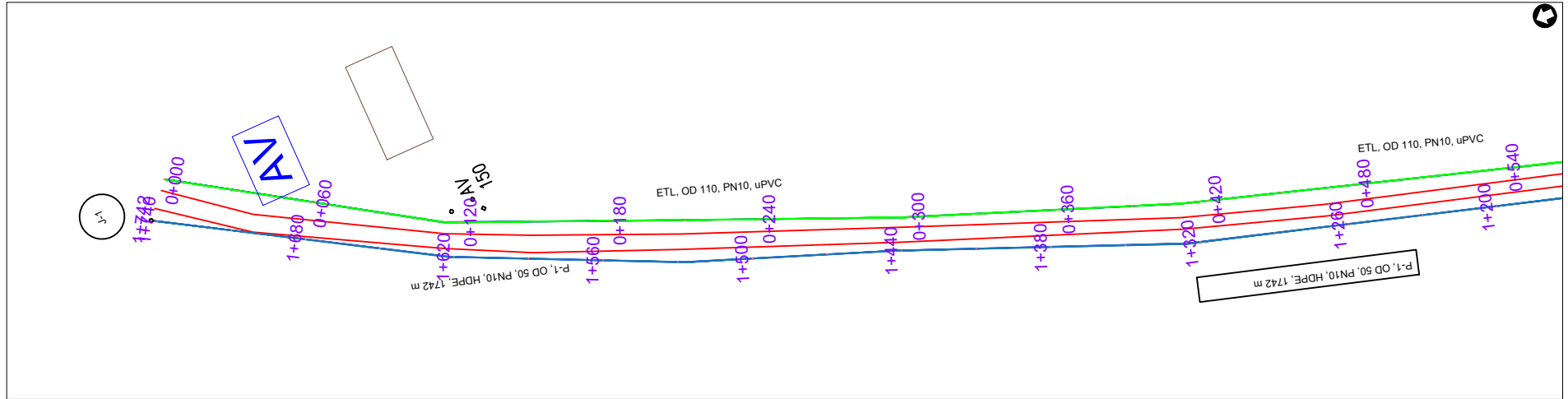
MINISTRY OF WATER AND ENVIRONMENT

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

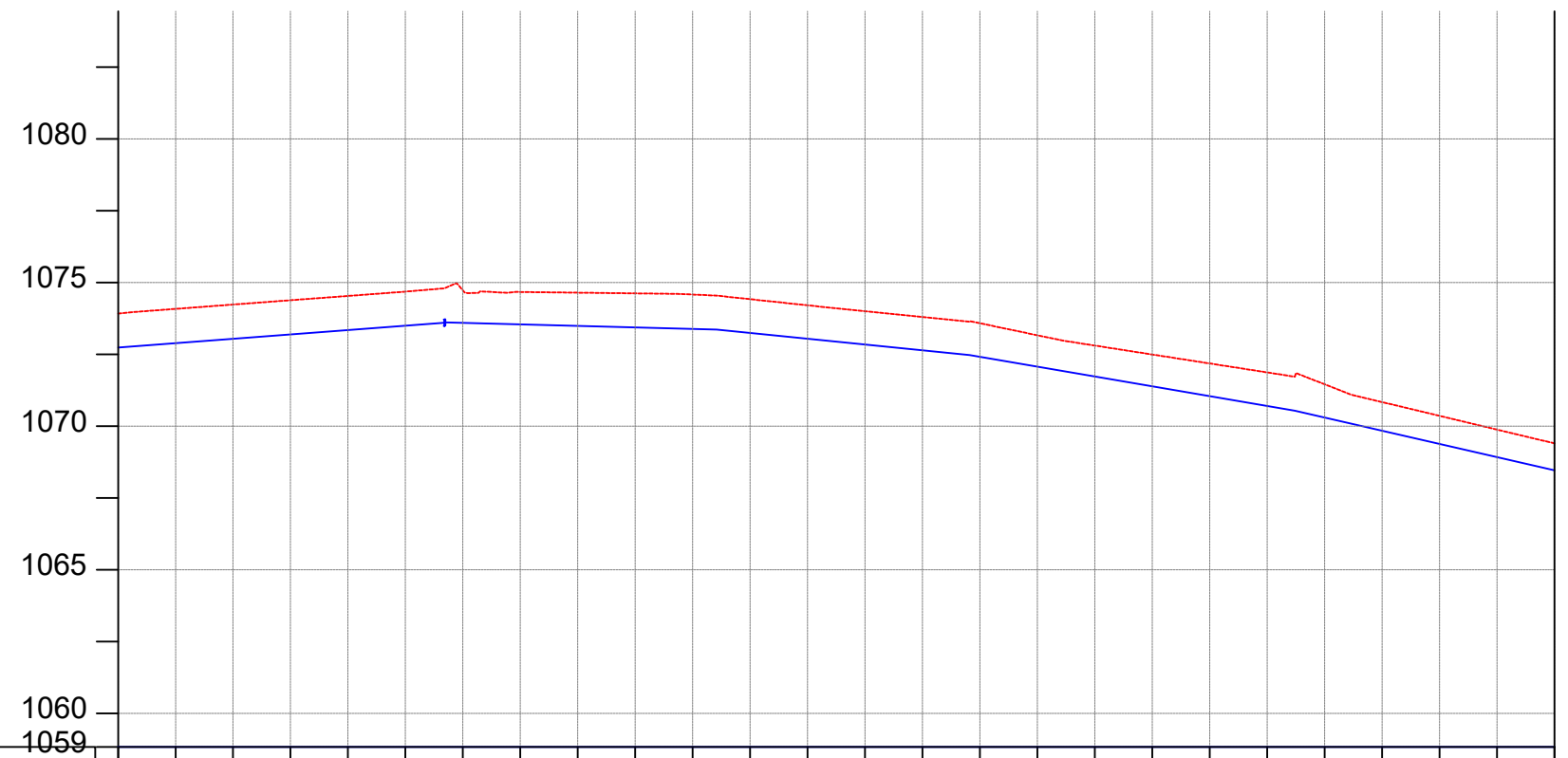
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-4 (CH 0+000.00 - 0+374.04)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/ETL-4 (CH 0+000.00 - 0+374.04)	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)	1073.922	1074.084	1074.234	1074.385	1074.535	1074.685	1074.726	1074.672	1074.648	1074.624	1074.583	1074.422	1074.209	1074.005	1073.803	1073.584	1073.165	1072.807	1072.495	1072.184	1071.873	1071.458	1070.839	1070.360	1069.881	1069.402
PIPE DETAILS	OD 110, PN10, uPVC																									
PIPE INVERT(m)	1072.822	1072.984	1073.134	1073.285	1073.435	1073.585	1073.626	1073.572	1073.548	1073.524	1073.483	1073.322	1073.109	1072.905	1072.703	1072.484	1072.065	1071.707	1071.395	1071.084	1070.773	1070.358	1069.739	1069.260	1068.781	1068.302

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

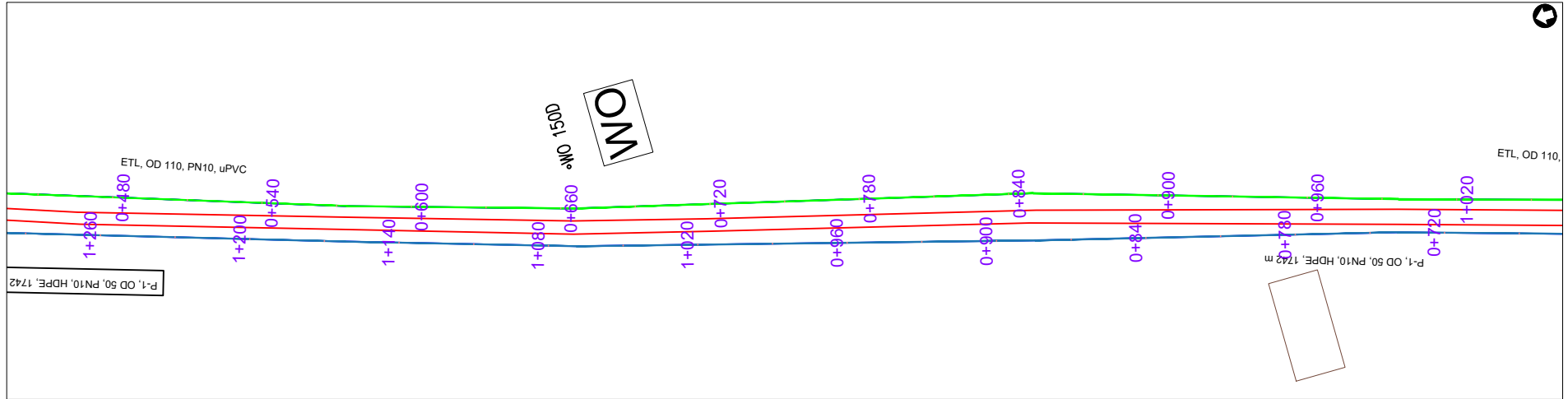
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUDAKA, KADAMA, KIBUKU & TIRINYI

CONSULTANT:

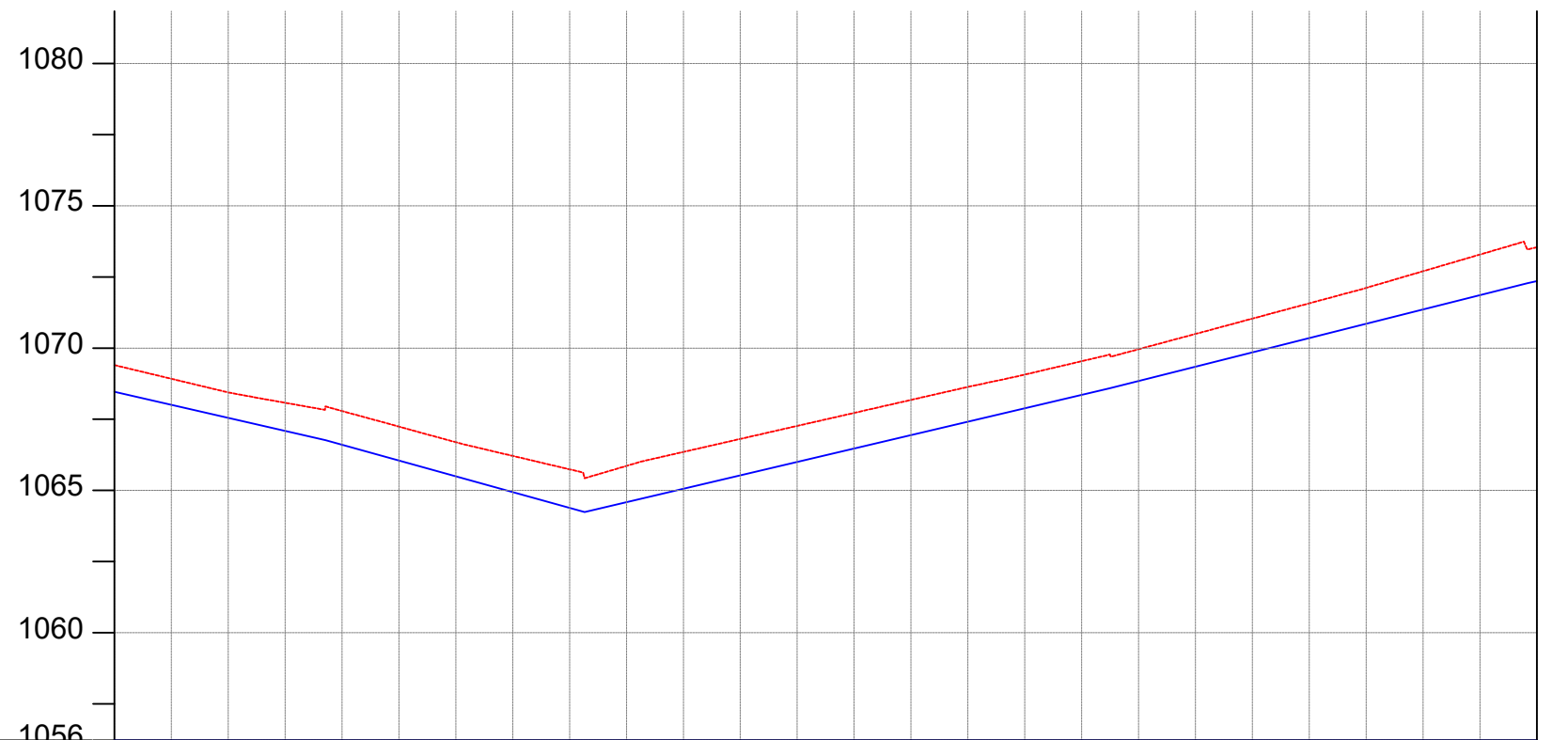


Drawing Title:
TIRINYI TOWN
ETL-6 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-6 (CH 0+000.00 - 0+500.00)
Sheet No.: 1	Format: A3



PLAN LAYOUT



CHAINAGE	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940	0+960	1+000	
GROUND LEVEL(m)	1069.402	1068.923	1068.444	1068.079	1067.790	1067.242	1066.694	1066.213	1065.741	1065.861	1066.352	1066.809	1067.266	1067.723	1068.180	1068.636	1069.069	1069.539	1069.960	1070.498	1071.036	1071.574	1072.116	1072.701	1073.287	
PIPE DETAILS	— OD 110, PN10, uPVC —																									
PIPE INVERT(m)	1068.302	1067.823	1067.344	1066.979	1066.690	1066.142	1065.594	1065.113	1064.641	1064.761	1065.252	1065.709	1066.166	1066.623	1067.080	1067.536	1067.969	1068.439	1068.860	1069.398	1069.936	1070.474	1071.016	1071.601	1072.187	

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

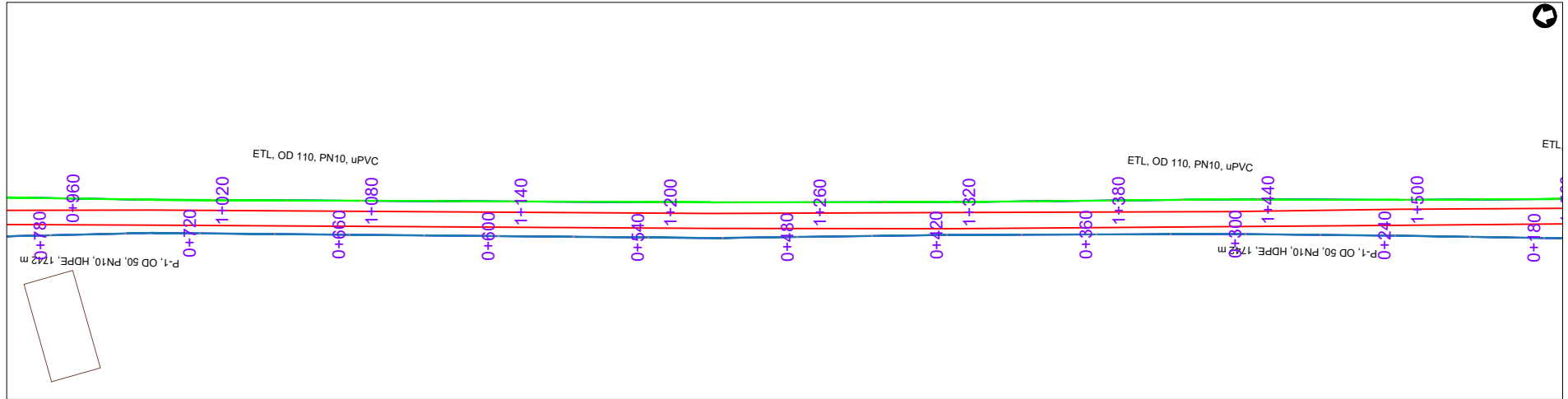
MINISTRY OF WATER AND ENVIRONMENT

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

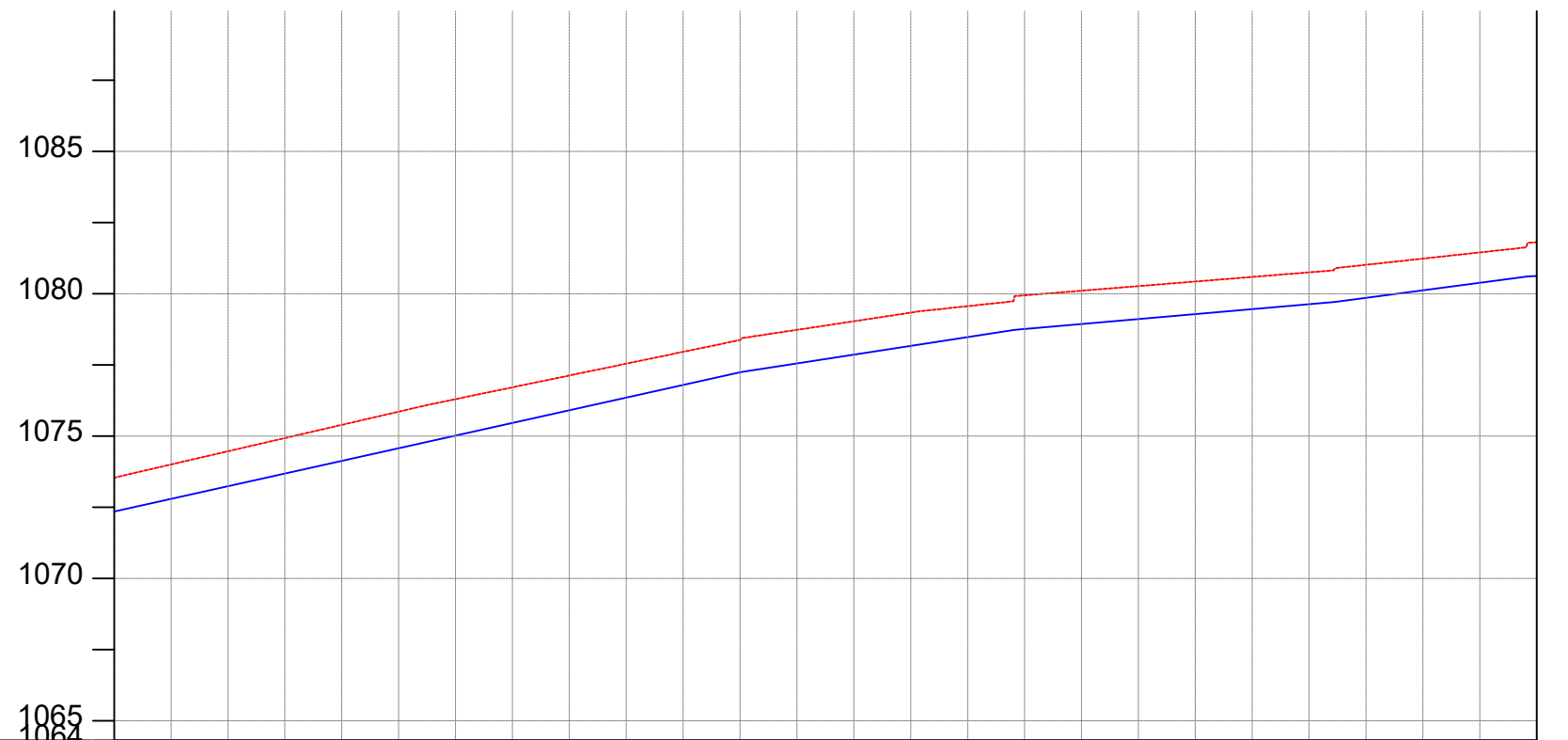
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-6 (CH 0+500.00 - 1+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-6 (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)	1073.541	1074.004	1074.468	1074.931	1075.395	1075.858	1076.299	1076.714	1077.130	1077.545	1077.960	1078.376	1078.733	1079.036	1079.338	1079.565	1079.946	1080.107	1080.269	1080.430	1080.592	1080.753	1081.018	1081.235	1081.452	1081.810		
PIPE DETAILS	— OD 110, PN10, uPVC —																											
PIPE INVERT(m)	1072.441	1072.904	1073.368	1073.831	1074.295	1074.758	1075.199	1075.614	1076.030	1076.445	1076.860	1077.276	1077.633	1077.936	1078.238	1078.465	1078.846	1079.007	1079.169	1079.330	1079.492	1079.653	1079.918	1080.135	1080.352	1080.710		

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

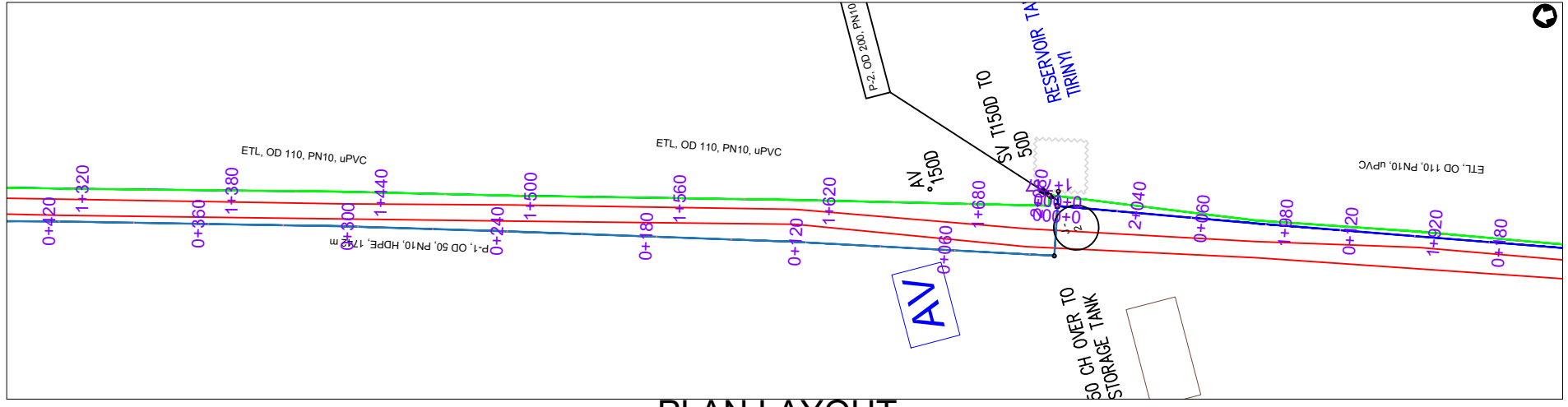
MINISTRY OF WATER AND ENVIRONMENT

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

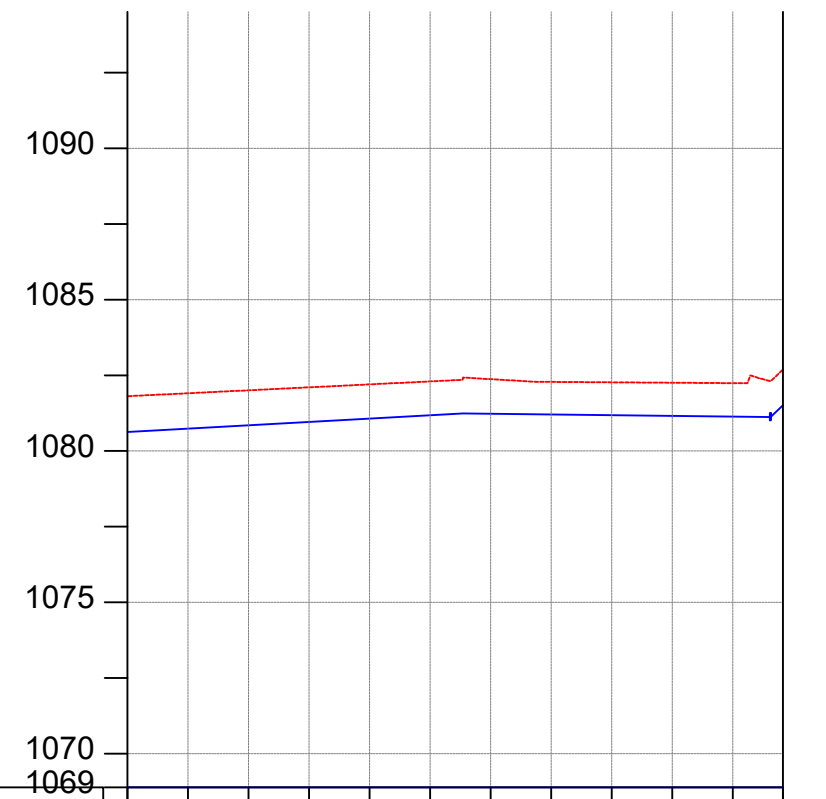
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-6 (CH 1+000.00 - 1+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-6 (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+717
GROUND LEVEL(m)	1081.810	1081.907	1082.005	1082.103	1082.200	1082.298	1082.373	1082.282	1082.269	1082.255	1082.241	1082.694
PIPE DETAILS	OD 110, PN10, uPVC											
PIPE INVERT(m)	1080.710	1080.807	1080.905	1081.003	1081.100	1081.198	1081.273	1081.182	1081.169	1081.155	1081.141	1081.594

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

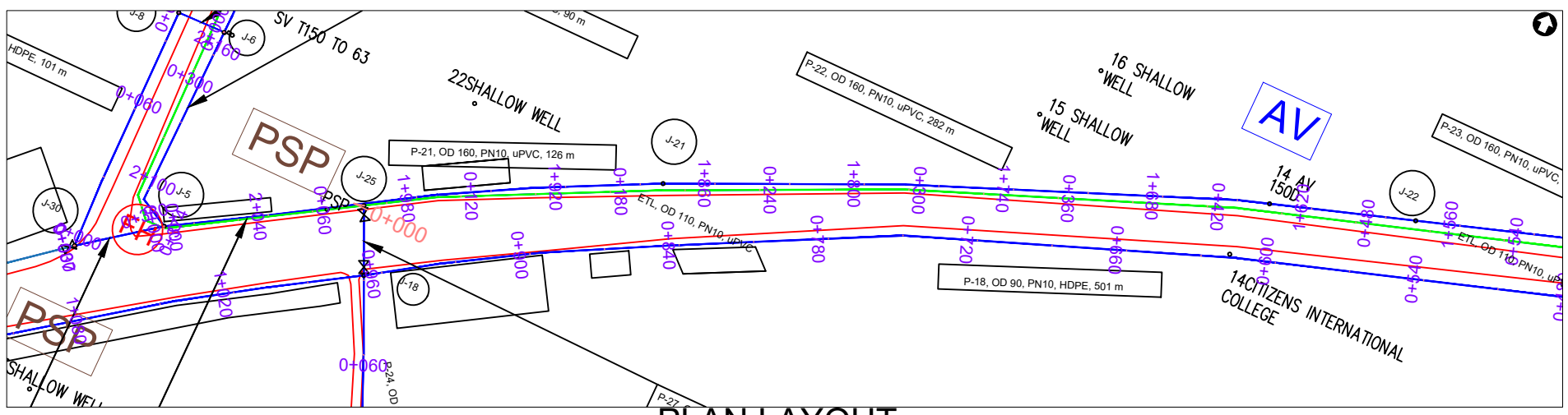
MINISTRY OF WATER AND ENVIRONMENT

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

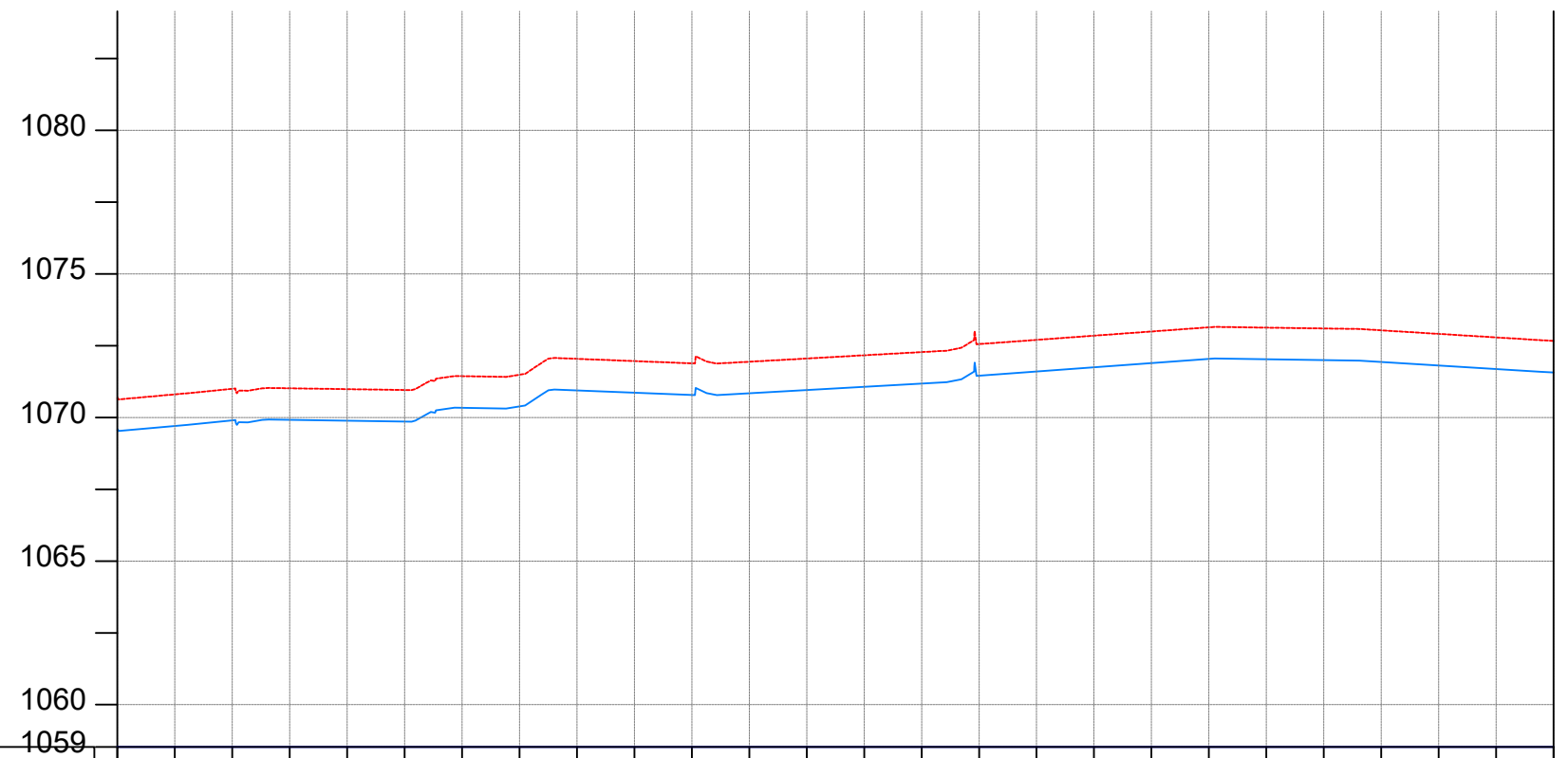
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-6 (CH 1+500.00 - 1+716.56)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-6 (CH 1+500.00 - 1+716.56)
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)	1070.669	1070.804	1070.999	1071.016	1070.987	1070.957	1071.438	1071.487	1072.042	1071.963	1071.884	1071.941	1072.053	1072.165	1072.277	1072.556	1072.702	1072.848	1072.994	1073.140	1073.128	1073.099	1073.034	1072.911	1072.788	1072.666	0+500
PIPE DETAILS	OD 110, PN10, uPVC																										
PIPE INVERT(m)	1069.569	1069.704	1069.899	1069.916	1069.887	1069.857	1070.338	1070.387	1070.942	1070.863	1070.784	1070.841	1070.953	1071.065	1071.177	1071.456	1071.602	1071.748	1071.894	1072.040	1072.028	1071.999	1071.934	1071.811	1071.688	1071.566	0+500

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

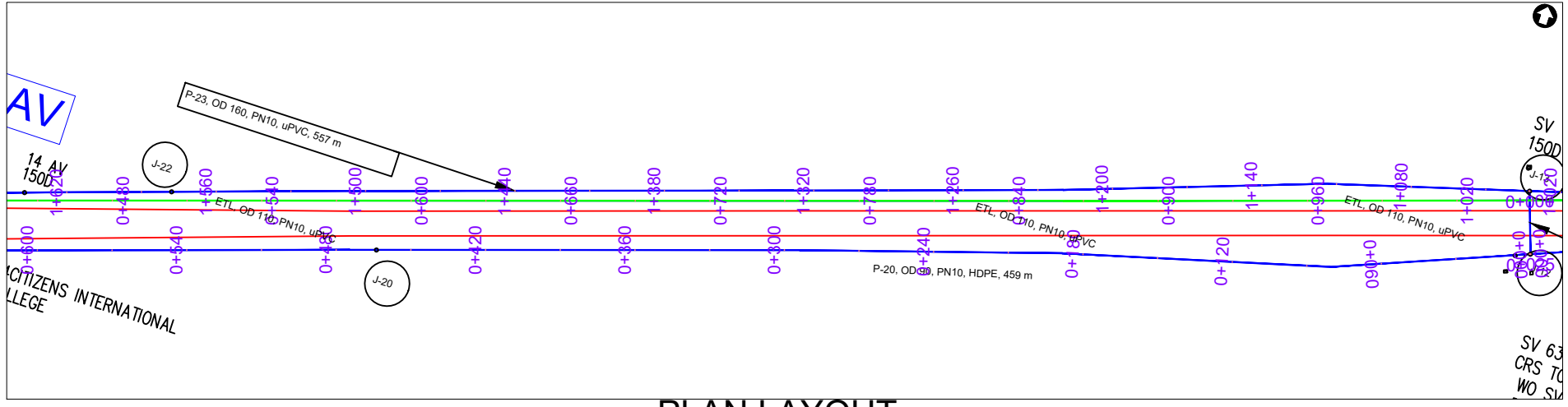
MINISTRY OF WATER AND ENVIRONMENT

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

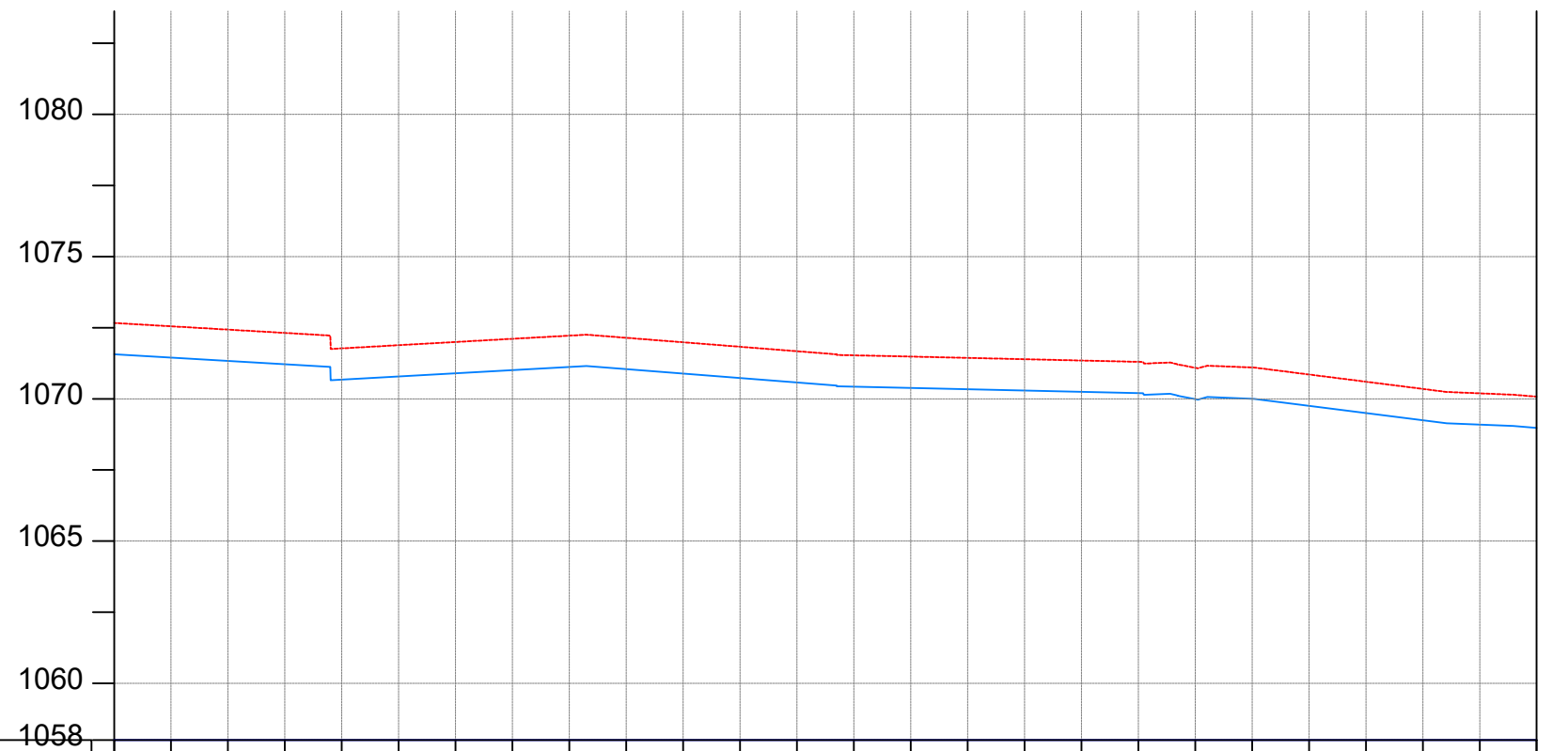
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-7 (CH 0+000.00 - 0+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/ETL-7 (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)	1072.666	1072.549	1072.433	1072.316	1071.774	1071.886	1071.998	1072.109	1072.221	1072.145	1071.987	1071.830	1071.673	1071.529	1071.485	1071.439	1071.393	1071.346	1071.300	1071.093	1071.102	1070.855	1070.602	1070.348	1070.193	1070.076	1+000	
PIPE DETAILS	OD 110, PN10, uPVC																											
PIPE INVERT(m)	1071.566	1071.449	1071.333	1071.216	1070.674	1070.786	1070.898	1071.009	1071.121	1071.045	1070.887	1070.730	1070.573	1070.429	1070.385	1070.339	1070.293	1070.246	1070.200	1069.993	1070.002	1069.755	1069.502	1069.248	1069.093	1068.976	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

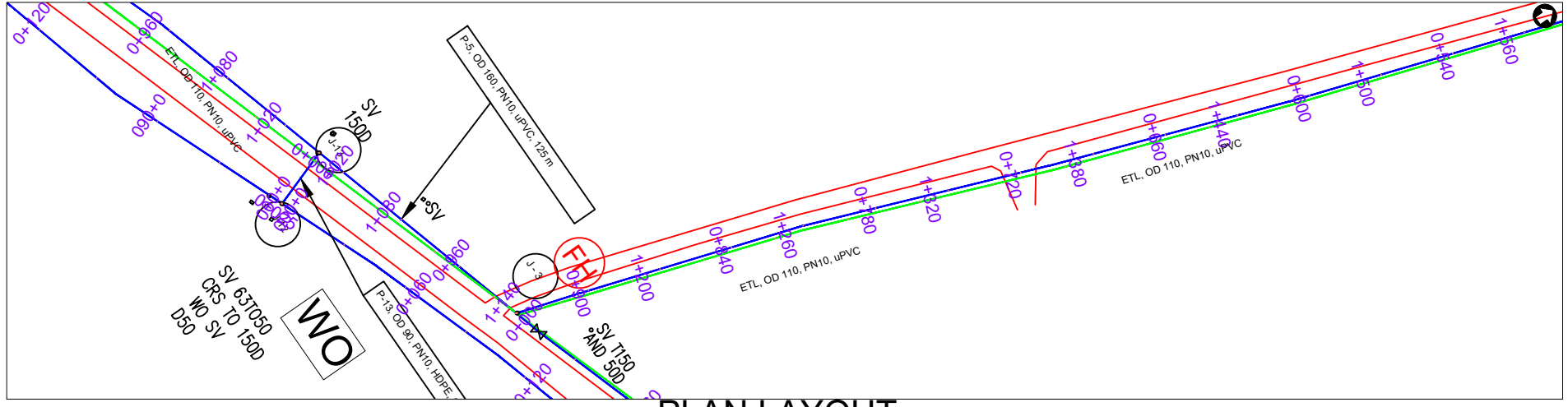
MINISTRY OF WATER AND ENVIRONMENT

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

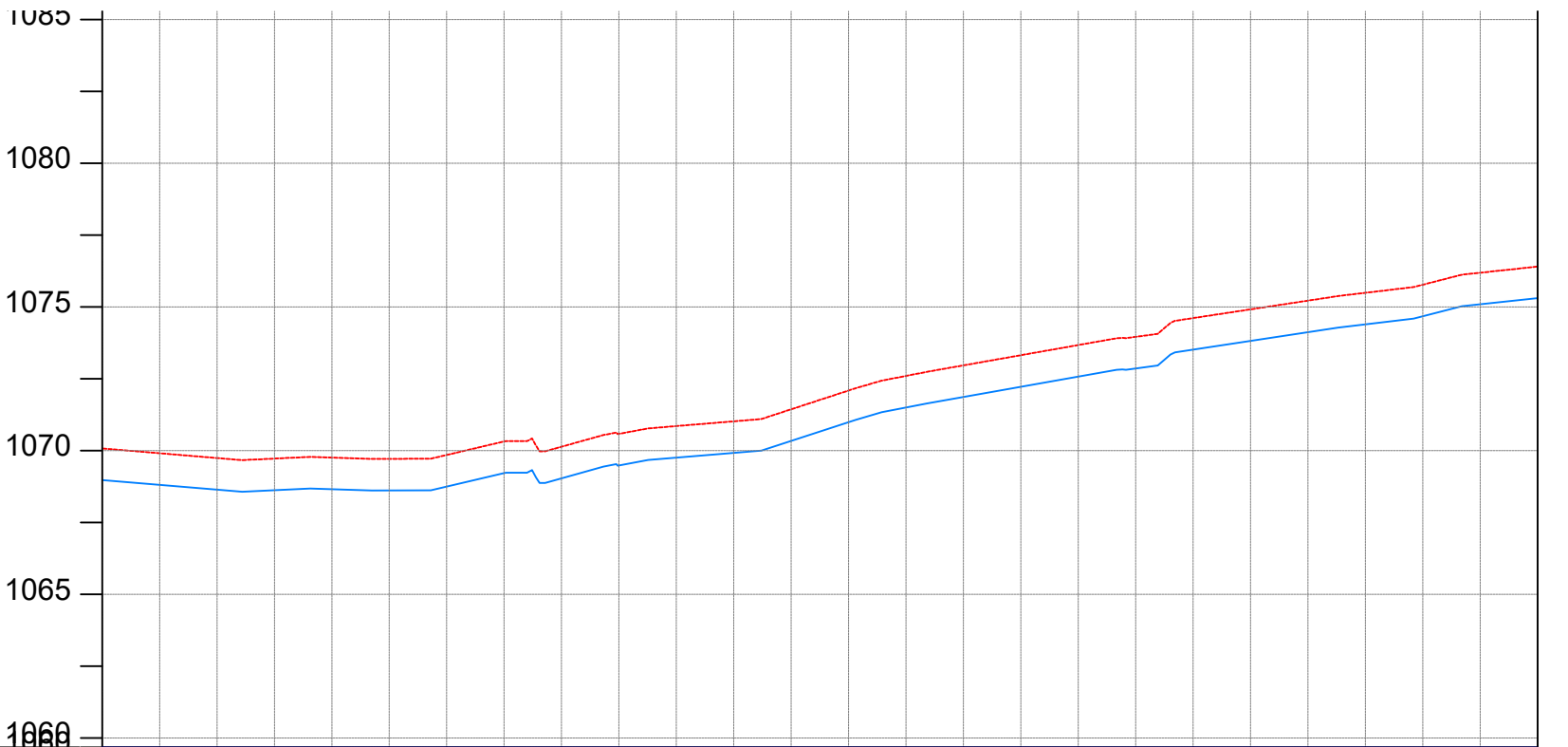
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-7 (CH 0+500.00 - 1+000.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-7 (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)	1070.076	1069.909	1069.743	1069.723	1069.757	1069.713	1069.849	1070.320	1070.135	1070.584	1070.854	1071.020	1071.439	1072.092	1072.600	1072.967	1073.321	1073.674	1073.960	1074.613	1074.917	1075.220	1075.493	1075.773	1076.191	1076.404		
PIPE DETAILS	— OD 110, PN10, uPVC —																											
PIPE INVERT(m)	1068.976	1068.809	1068.643	1068.623	1068.657	1068.613	1068.749	1069.220	1069.035	1069.484	1069.754	1069.920	1070.339	1070.992	1071.500	1071.867	1072.221	1072.574	1072.860	1073.513	1073.817	1074.120	1074.393	1074.673	1075.091	1075.304		

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

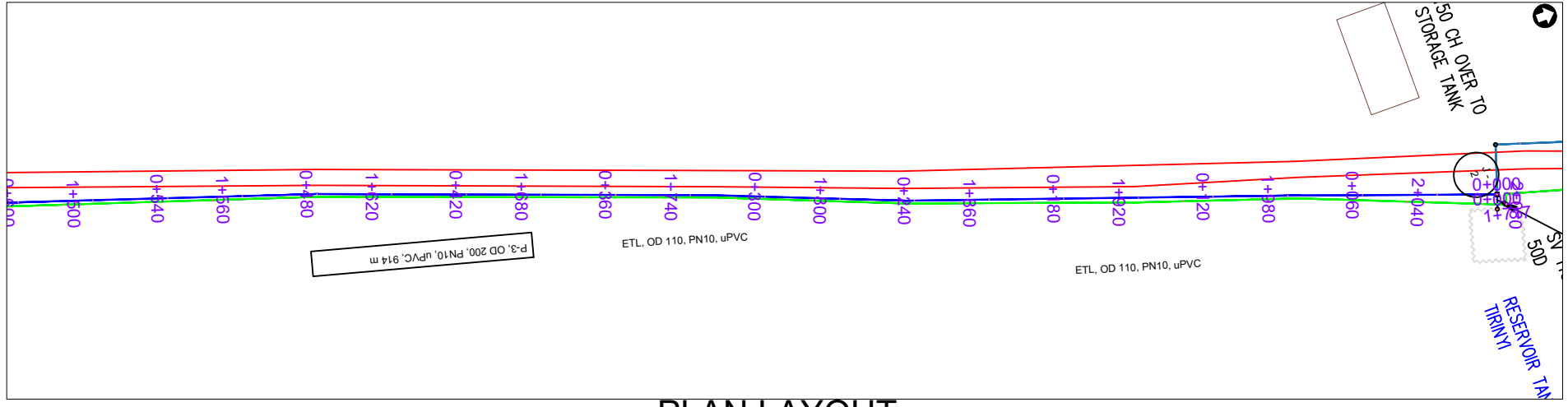
MINISTRY OF WATER AND ENVIRONMENT

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

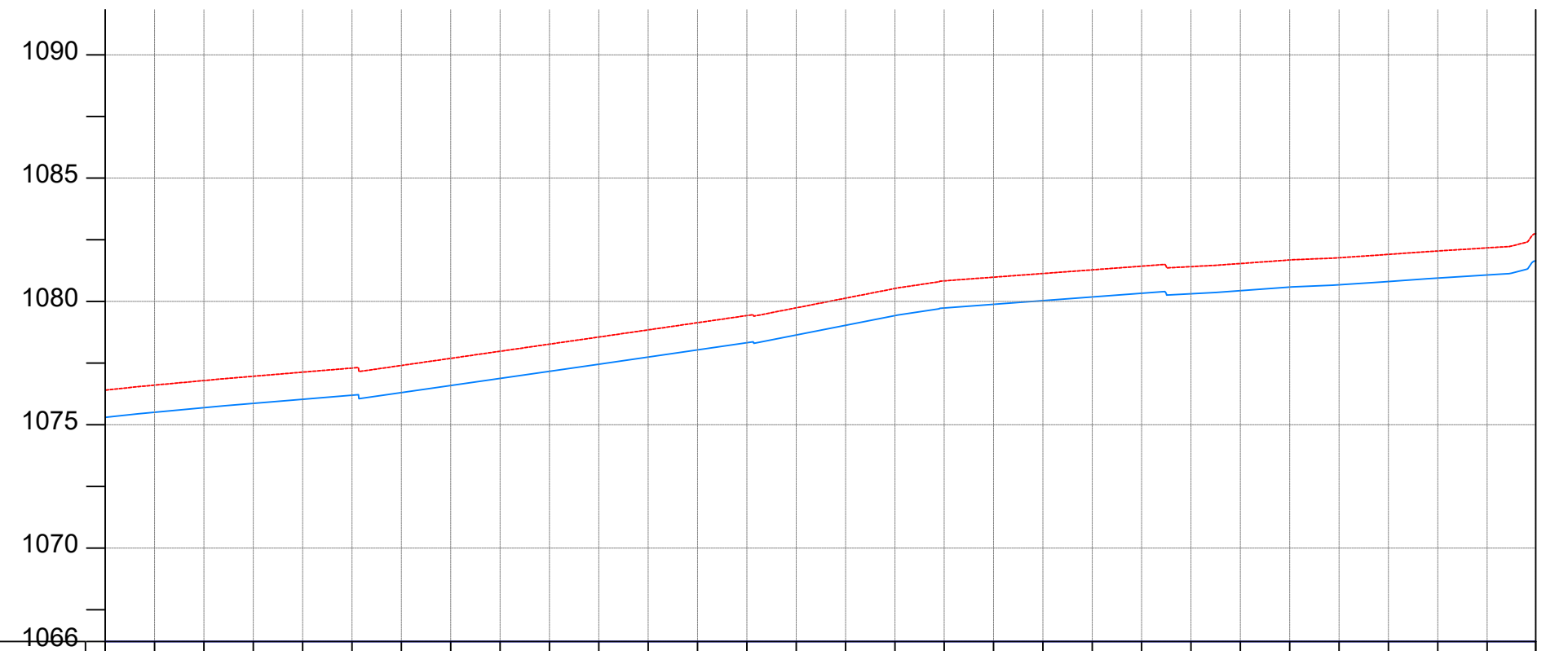
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-7 (CH 1+000.00 - 1+500.00)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-7 (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	2+000	2+040	2+080														
GROUND LEVEL(m)	1076.404	1076.608	1076.793	1076.967	1077.134	1077.300	1077.405	1077.693	1077.981	1078.269	1078.557	1078.848	1079.138	1079.428	1079.741	1080.133	1080.526	1080.836	1080.985	1081.133	1081.282	1081.431	1081.413	1081.538	1081.682	1081.774	1081.909	1082.046	1082.172	1082.748
PIPE DETAILS	— OD 110, PN10, uPVC —																													
PIPE INVERT(m)	1075.304	1075.508	1075.693	1075.867	1076.034	1076.200	1076.305	1076.593	1076.881	1077.169	1077.457	1077.748	1078.038	1078.328	1078.641	1079.033	1079.426	1079.736	1079.885	1080.033	1080.182	1080.331	1080.313	1080.438	1080.582	1080.674	1080.809	1080.946	1081.072	1081.648

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

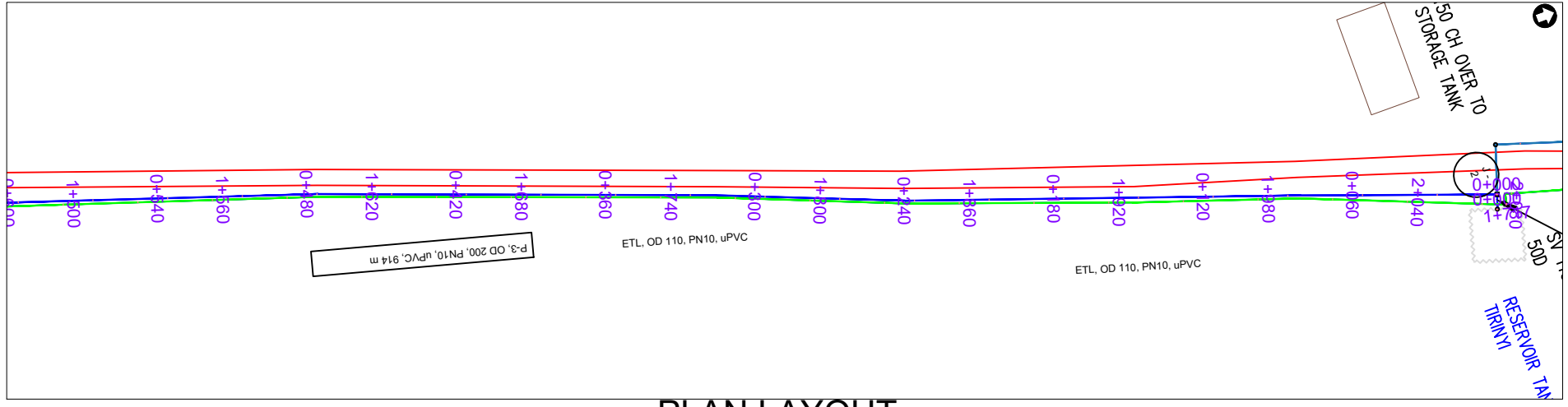
MINISTRY OF WATER AND ENVIRONMENT

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

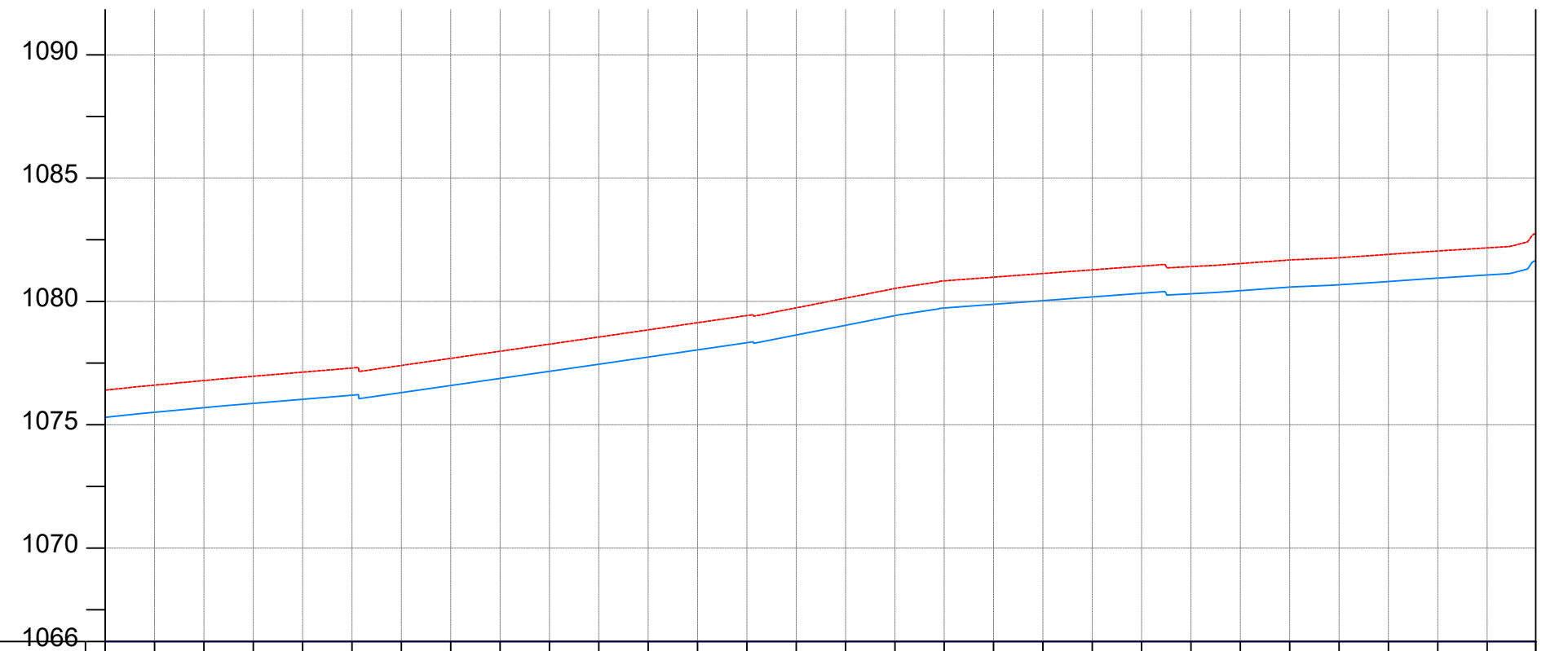
CONSULTANT:

Drawing Title:
TIRINYI TOWN
ETL-7 (CH 1+500.00 - 2+079.70)

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/ETL-7 (CH 1+500.00 - 2+079.70)
Sheet No.: 4	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	2+000	2+040	2+080															
GROUND LEVEL(m)	1076.404	1076.608	1076.793	1076.967	1077.134	1077.300	1077.405	1077.693	1077.981	1078.269	1078.557	1078.848	1079.138	1079.428	1079.741	1080.133	1080.526	1080.836	1080.985	1081.133	1081.282	1081.431	1081.413	1081.538	1081.682	1081.774	1081.909	1082.046	1082.172	1082.748	2+080
PIPE DETAILS	— OD 110, PN10, uPVC —																														
PIPE INVERT(m)	1075.304	1075.508	1075.693	1075.867	1076.034	1076.200	1076.305	1076.593	1076.881	1077.169	1077.457	1077.748	1078.038	1078.328	1078.641	1079.033	1079.426	1079.736	1079.885	1080.033	1080.182	1080.331	1080.313	1080.438	1080.582	1080.674	1080.809	1080.946	1081.072	1081.648	

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

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:

TIRINYI TOWN
ETL-7 (CH 1+500.00 - 2+079.70)

Drawn by : Eria Kamegero	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: DEC 2021
Scale: As Indicated	Date: DEC 2021
Drawing No.: IWMDP/MBA/ETL-7 (CH 1+500.00 - 2+079.70)	
Sheet No.: 4	Format: A3