

REPUBLIC OF UGANDA



**VOLUME 4-2: BOOK OF DRAWINGS
(BUSOLWE TRANSMISSION MAINS - PROFILES)**

INTEGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP)

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

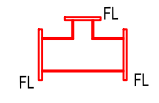
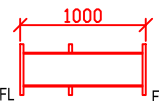

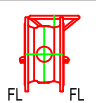
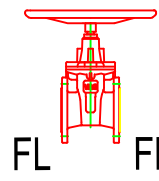
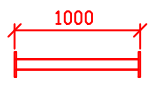

CONTRACT NO: MWE/WRKS/21-22/00005/2

SUBMITTED BY:



JULY 2022

PIPE & FITTING SCHEDULE BRANCHES DN 300 TO DN 600 (Quantity per Chamber)

ITEM	Qty.	Dia.	BoQ Item	DETAILS	DESCRIPTION
①	1	DN 300 / DN 250	n/a		DN 300 Main Pipe to DN 250 Branch Ductile Iron Tee Piece, to DIN EN 545, flanged on all sides, cement mortar lining
②	2	DN 300	n/a		DN 300 Main Pipe Flanged Ductile Iron Piece, 1m, to DIN EN 545, flanged on all sides, incl Puddle Flange, cement mortar lining
③	2	DN 300	n/a		DN Main Pipe Ductile Iron, Ranger Type Flange Adaptor, Connection to main pipeline. Epoxy coated with anchor bolts.
④	1	DN 300	Varies		DN Main Pipe mm Butterfly Valve to DIN 593, with double offset flange, epoxy coated wear-, corrosion- and undermining-resitant disk, double offset bearing mounted in maintainance free bushing, incl handwheel
⑤	1	DN 300	n/a		DN Main Pipe Ductile Iron, Dismantling Piece, Epoxy coated with anchor bolts, threaded anchor bolts on both sides
⑥	1	DN 250	n/a		DN Branch Gate Valve to EN 558-1, basic series 14, resilient seated, flanged on both sides, epoxy coated to BS 6920, Body Bonnet and Wedge Ductile Iron, Wedge EPDM vulcanized, Stem in Stainless Steel, incl handwheel
⑦	1	DN 250	n/a		DN Branch Flanged Ductile Iron Piece, 1m, to DIN EN 545, flanged on all sides, cement mortar lining
⑧	1	DN 250	n/a		DN Branch Ductile Iron, Flange Adaptor, Connection to branch pipeline. Epoxy coated with anchor bolts.

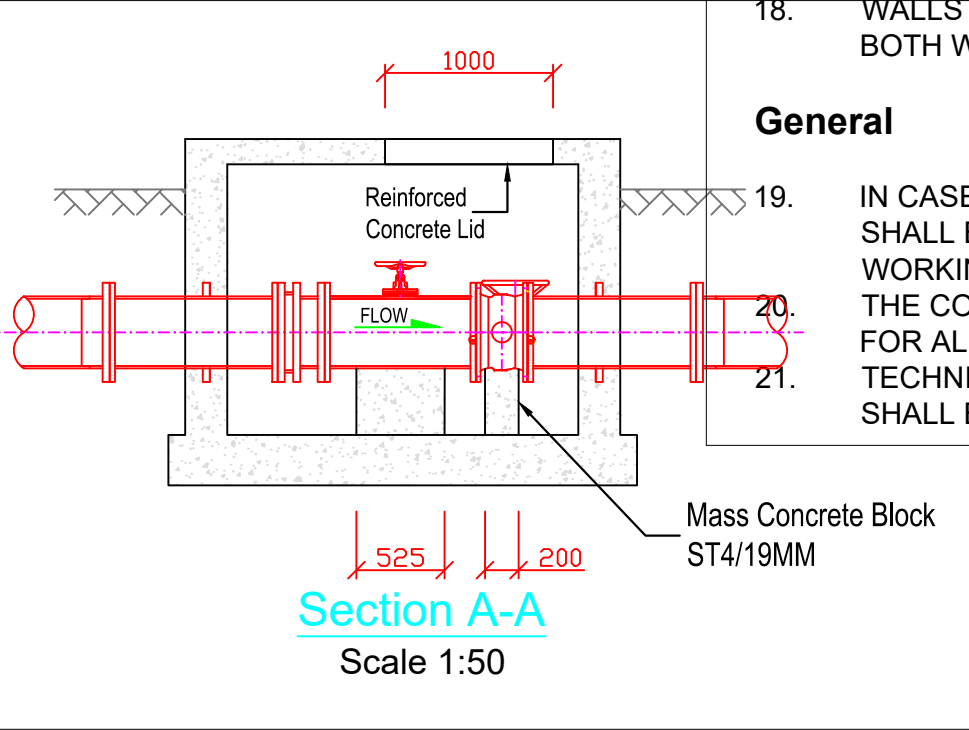
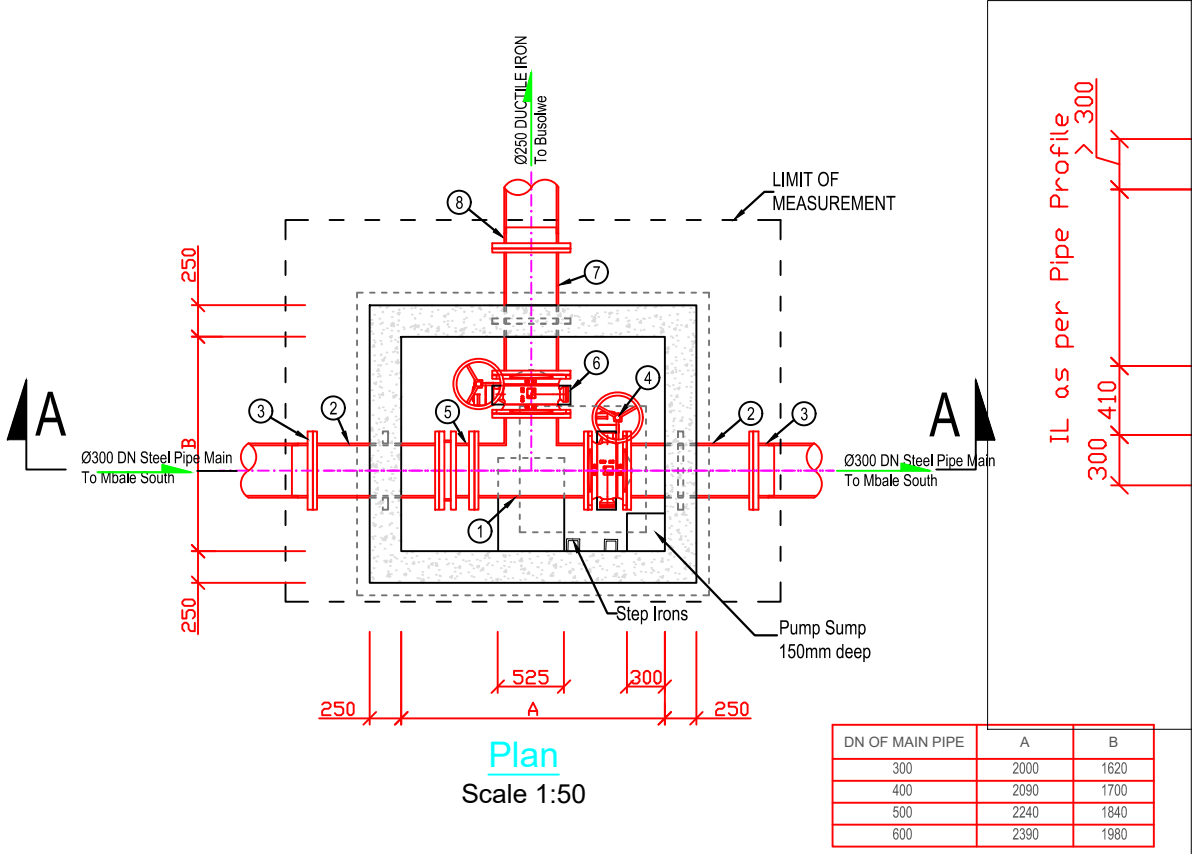
3. GASKETS FOR FLANGED JOINTS SHALL BE OF COMPRESSED NON-ASBESTOS SYNTETIC FIBER TO BS 7531 GRADE Y AND FULL FACED WITH A MINIMUM THICKNESS OF 2 mm
4. FOR ALL BOLTS, ONE WASHER ON THE BOLT AND WASHER ON THE NUT SIDE TO BE FITTED. A MINIMUM OF 2-4 THREADS IS TO BE PROTRUDING THE NUT SIDE AFTER THIGHTENING
5. PRESSURE CLASS AS PER LONGITUDINAL SECTION
6. ALL BOLTS, NUTS AND WASHERS TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH BS EN ISO 1461, MINIMUM 70 MICRONS THICK
7. ALL THREADED JOINTS TO BE TREATED WITH 'HICHEM' SOLVENTLESS TRAVELLING FILLER OR 'EPIDERMIX 372' ACCORDING TO SUPPLIERS
8. MAKING GOOD OF GALVANIZED JOINTS ONLY WHERE APPROVED BY THE ENGINEER
9. ALL BURIED BOLTS AND FLANGES SHALL BE WRAPPED IN PETROLEUM MASTIC AND TAPE, IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION
10. ALL BURIED STEEL PIPEWORK OUTSIDE THE CHAMBER TO BE BITUMEN TAPE WRAPPED, DENSOCCLAD 70 (OR EQUAL APPROVED)
11. 300 mm CLEARANCE TO BE MAINTAINED BETWEEN FLANGE AND WALL

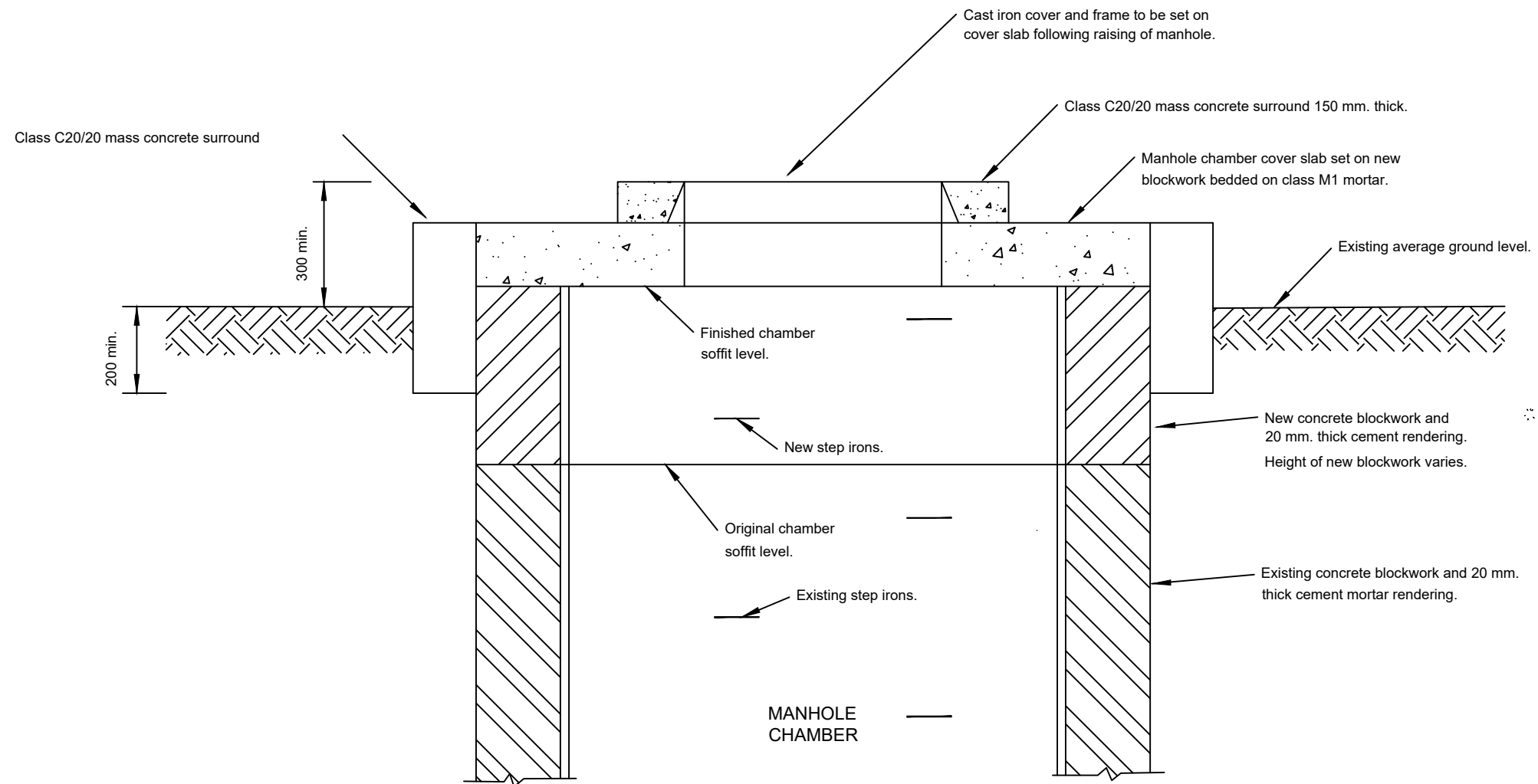
Concrete

12. ALL STRUCTURAL CONCRETE TO BE C25/19 AND ALL MASS CONCRETE TO BE ST4/19
13. ALL EXPOSED CONCRETE CORNERS TO BE CHAMFERED
14. WHERE THE PIPE ENTERS RIGID STRUCTURES A 10mm RUBBER WRAP (50 DUROMETER) SHALL BE INSTALLED
15. 50 mm BLINDING TO BE POURED BENEATH EVERY STRUCTURE
16. ALL CONCRETE STRUCTURES TO BE WATER RETAINING
17. NO CONCRETE SHALL BE POURED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER
18. WALLS AND BASE TO BE REINFORCED WITH Y12 AT 250 mm SPACING BOTH WAYS, SLAB WITH Y10 AT 250 mm SPACING

General



19. IN CASE OF MORE THAN ONE BRANCH, THE SIZE OF THE CHAMBER SHALL BE INCREASED TO A VALUE THAT IS ACCOMMODATING WORKING SPACE (300mm NEXT TO PIPE)
20. THE CONTRACTOR SHALL PRODUCE AND SUBMIT SHOP DRAWINGS FOR ALL PIPEWORK AND EQUIPMENT FOR APPROVAL BY ENGINEER
21. TECHNICAL DATASHEETS SHEETS OF ALL FITTINGS AND SPECIALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL

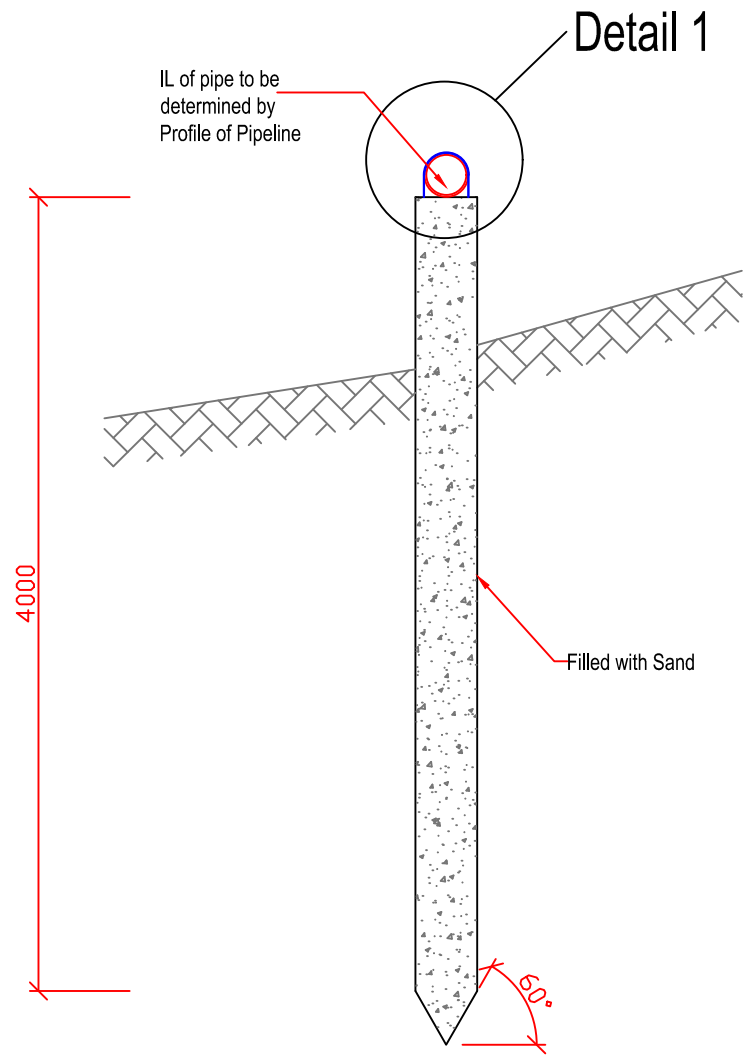




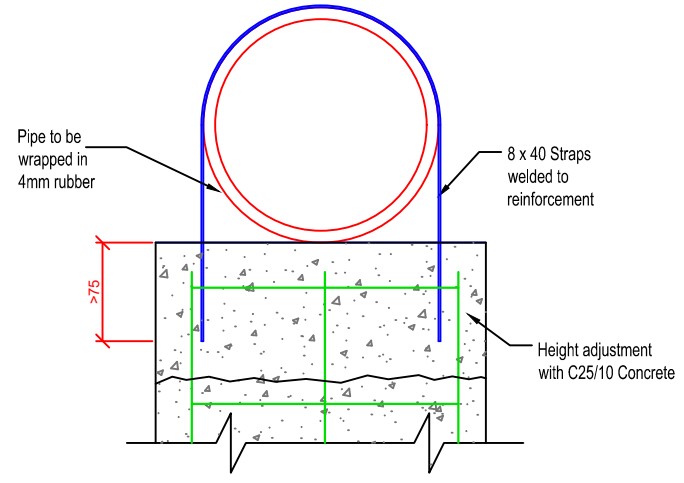
NOTES

1. The existing manhole chamber cover slab shall be re-used where possible. If existing slab is damaged it shall be replaced by a new slab as per standard detail SD 211.
2. Manhole chambers are generally square in plan with 1200 x 1200 internal dimensions. Dimensions to be confirmed by the contractor prior to casting new manhole chamber cover slab
3. The existing cast iron cover and frame shall be re-used where possible. If the cover or frame is damaged, it shall be replaced by a medium duty cover and frame supplied by the Employer.
4. Width of the new concrete blocks shall be the same as existing chamber walls.
5. The final cove level shall be agreed with the Engineer prior to placing mass concrete surrounds.
6. New step irons as per SD 206.

CLIENT	FUNDED BY	CONSULTANT	PROJECT REFERENCE NUMBER : NWSCHQ/SRVCS/2017-2018/164552	DRAWING DESCRIPTION							
MINISTRY OF WATER AND ENVIRONMENT	 THE WORLD BANK	 SAMAN CHIEL - JV IN ASSOCIATION WITH AIR WATER EARTH (AWE) LTD	INTERGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP) CONSULTANCY SERVICES FOR DESIGN REVIEW OF MBALE WATER SUPPLY AND SANITATION PROJECT	MANHOLE CHAMBER		DATE	19/06/2020			DRAWN:	Ceaser Kisa Wakiibi
ENGINEERING DESIGN	SHEET NUMBER	1 OF 5				DESIGNED:	Ceaser Kisa Wakiibi				
MANHOLE CHAMBER	DRAWING SCALE	H=1:1000 V=1:100		CATEGORY	PLAN AND PROFILE			CHECKED:	Ronald Musenze		
				DRAWING NUMBER		IWMDB/3-D-001			APPROVED:	OH Dongwoom	



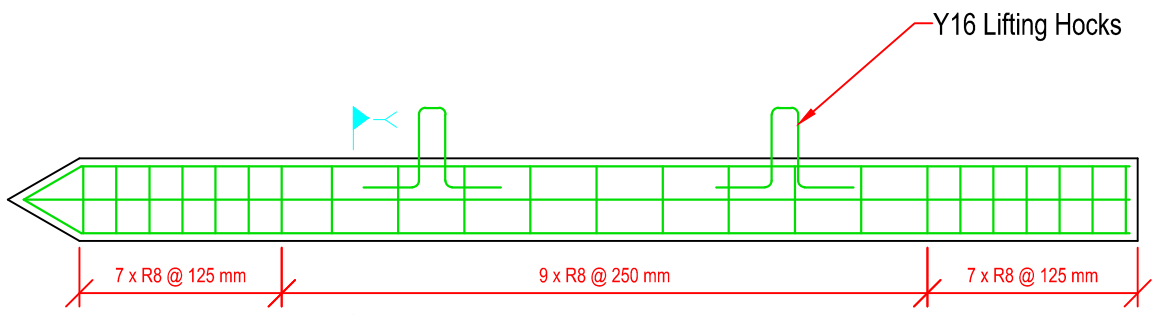
Typical Section through Pile
Scale 1:40



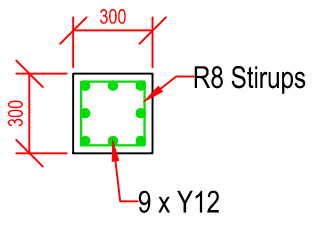
Detail 1 - Pile Head
Scale 1:10

NOTES

1. PILES TO BE MADE OF C40 CONCRETE
2. CONCRETE COVER 30mm
3. LENGTH OF PILE = 4m
4. PILE TO BE DRIVEN INTO THE GROUND BY ABOUT 3m
5. PILE HEADS TO BE PRE-FABRICATED AS PER DETAIL 1
6. PILES SHALL BE DRIVEN INTO THE GROUND TO FIT THE INVERT LEVEL OF THE PIPE AS PER LONGITUDINAL SECTION OF THE PIPELINE

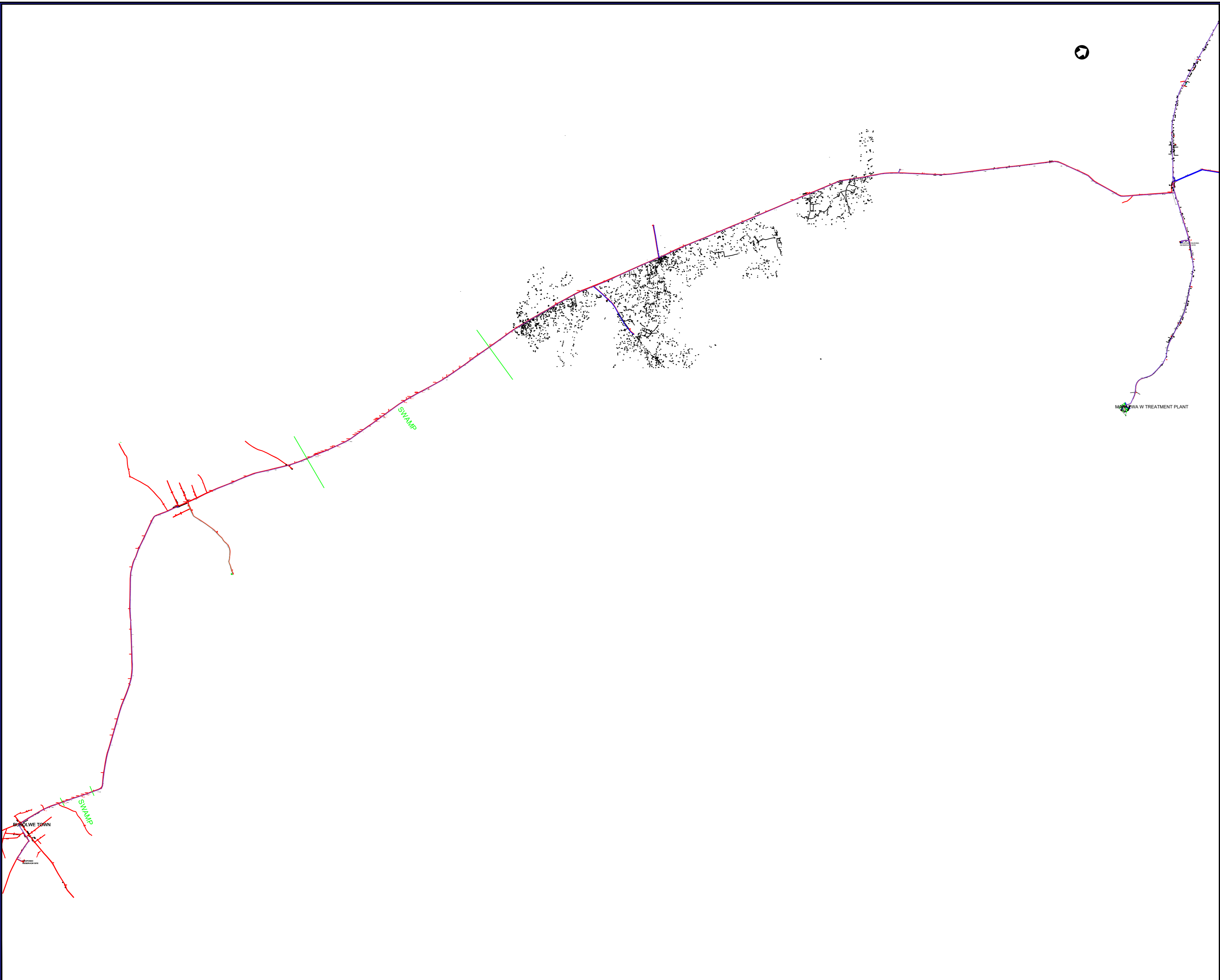


TYPICAL SECTION PILE
Scale 1:30



SECTION Y-Y
Scale 1:30

 Government of Uganda Ministry of Water and Environment	 FUNDED BY WORLD BANK	 saman Saman Corp. CHEIL CHEIL ENGINEERING CO. LTD. AWE Engineers	PROJECT REFERENCE NUMBER : ...	DRAWING DESCRIPTION			DATE	19/08/2021	DRAWN: Ceaser Kisa Wakiibi	
			INTERGRATED WATER MANAGEMENT AND DEVELOPMENT PROJECT (IWMDP)	BUSOLWE TRANSMISSION MAIN PREFORMED CONCRETE PILES			SHEET NUMBER	1 OF 1		DESIGNED: Ceaser Kisa Wakiibi
			CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUSOLWE AND BUTALEJA	CONSTRUCTION SUPERVISION	PREFORMED CONCRETE PILES	CATEGORY	DETAIL	DRAWING NUMBER		CHECKED: Ronald Musenze
				SHEET 1 OF 1	IWMDP/MBA/3-D-003	APPROVED: OH Dongwoom				



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 BUTALEJA AND BUSOLWE

CONSULTANT:

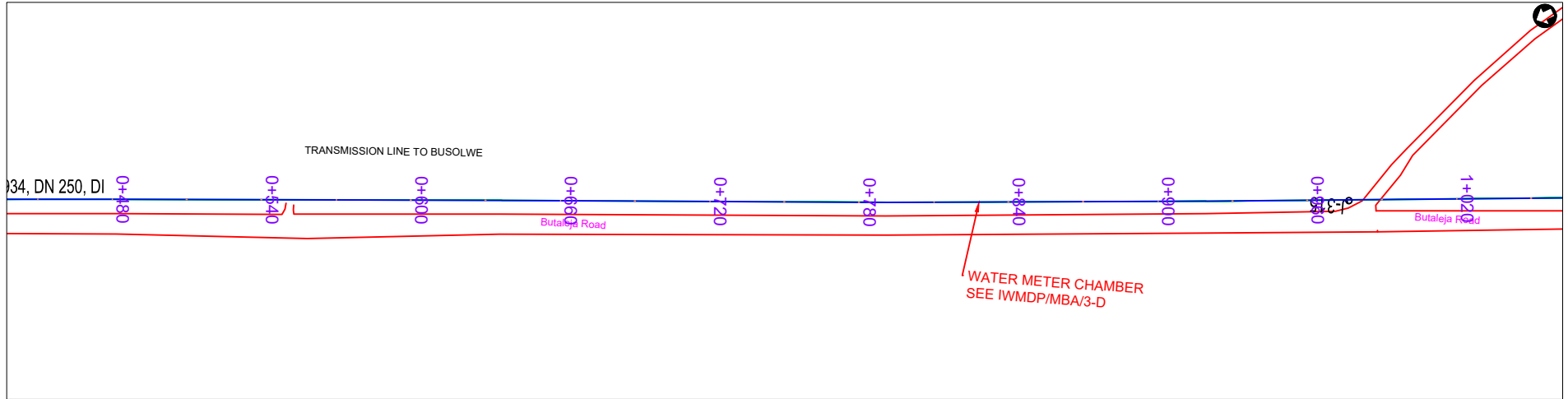




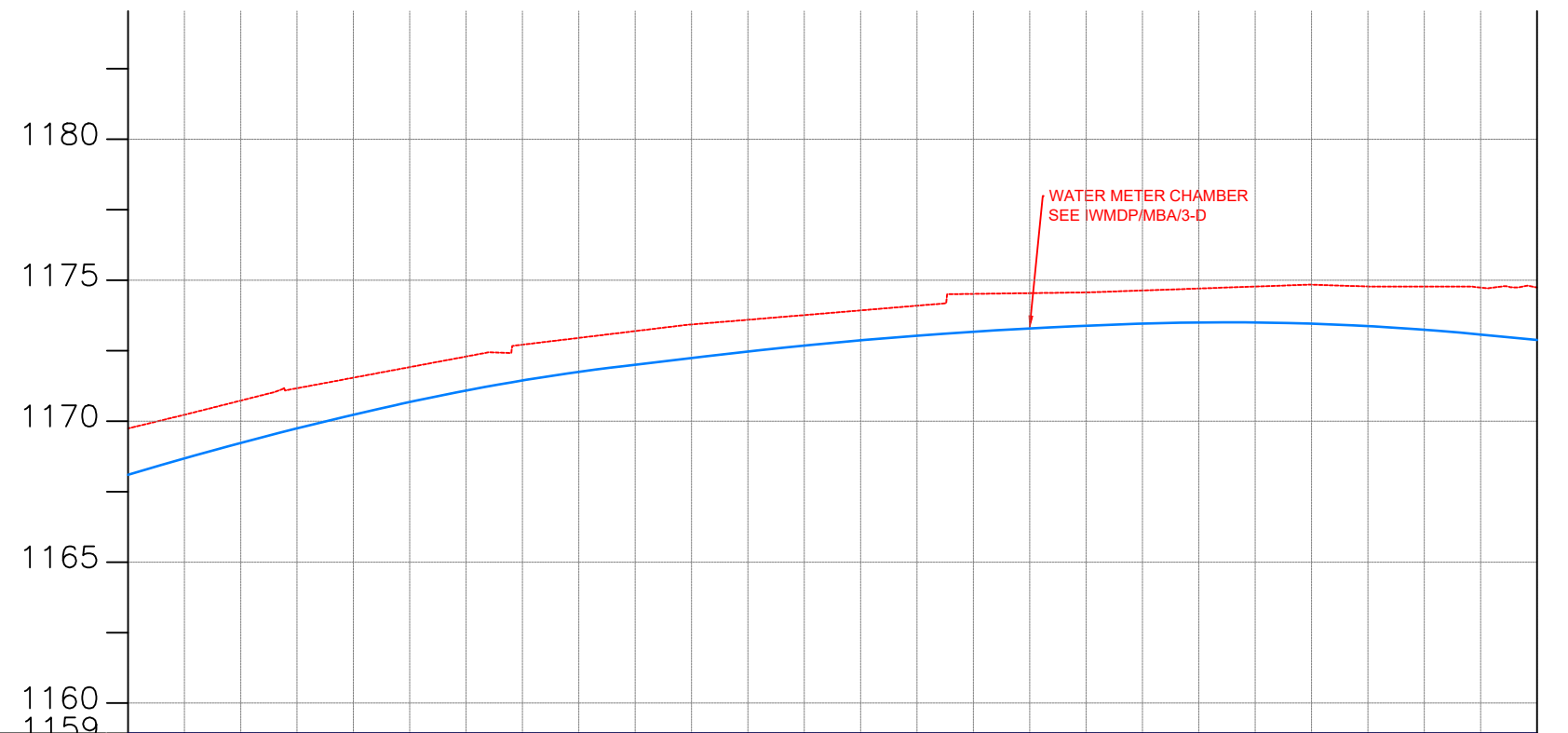
Drawing Title:

TRANSMISSION LINE TO BUSOLWE
 GENERAL LAYOUT

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL-BUSOLWE-GNL/001
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)	1169.740	1170.225	1170.728	1171.167	1171.542	1171.917	1172.292	1172.712	1172.953	1173.194	1173.429	1173.595	1173.761	1173.928	1174.094	1174.513	1174.540	1174.566	1174.634	1174.704	1174.774	1174.840	1174.840	1174.776	1174.775	1174.737	1174.744
PIPE DETAILS	DN 250 DI PIPE PN16																										
PIPE INVERT(m)	1168.10	1168.68	1169.23	1169.74	1170.23	1170.68	1171.09	1171.44	1171.75	1172.00	1172.24	1172.47	1172.68	1172.87	1173.03	1173.17	1173.29	1173.38	1173.46	1173.50	1173.50	1173.46	1173.37	1173.24	1173.07	1172.88	

AMENDMENTS		
No	Date	Revision

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LEGEND

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

REPUBLIC OF UGANDA

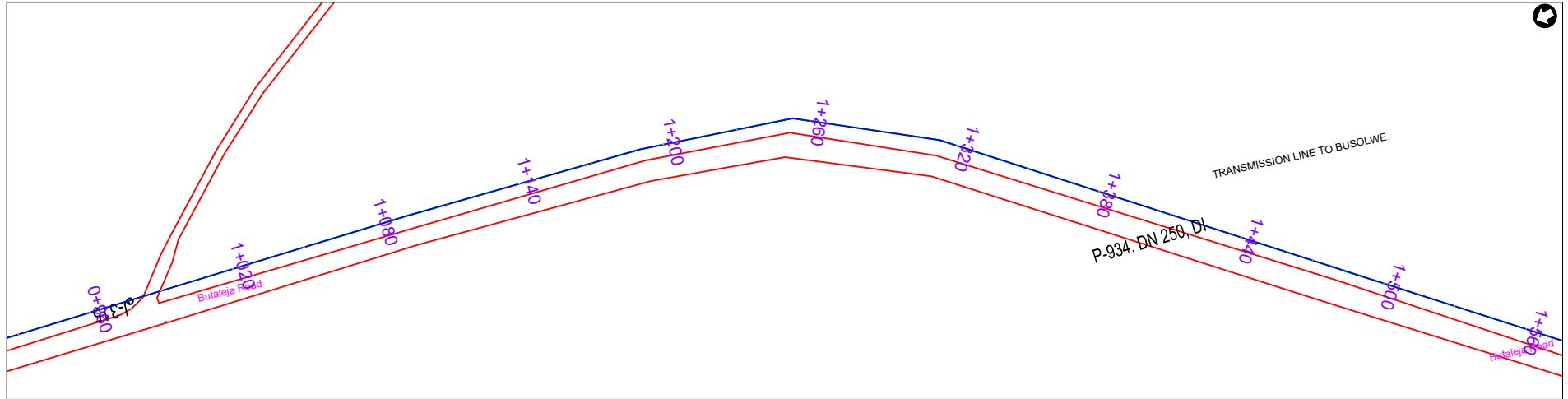
MINISTRY OF WATER AND ENVIRONMENT

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

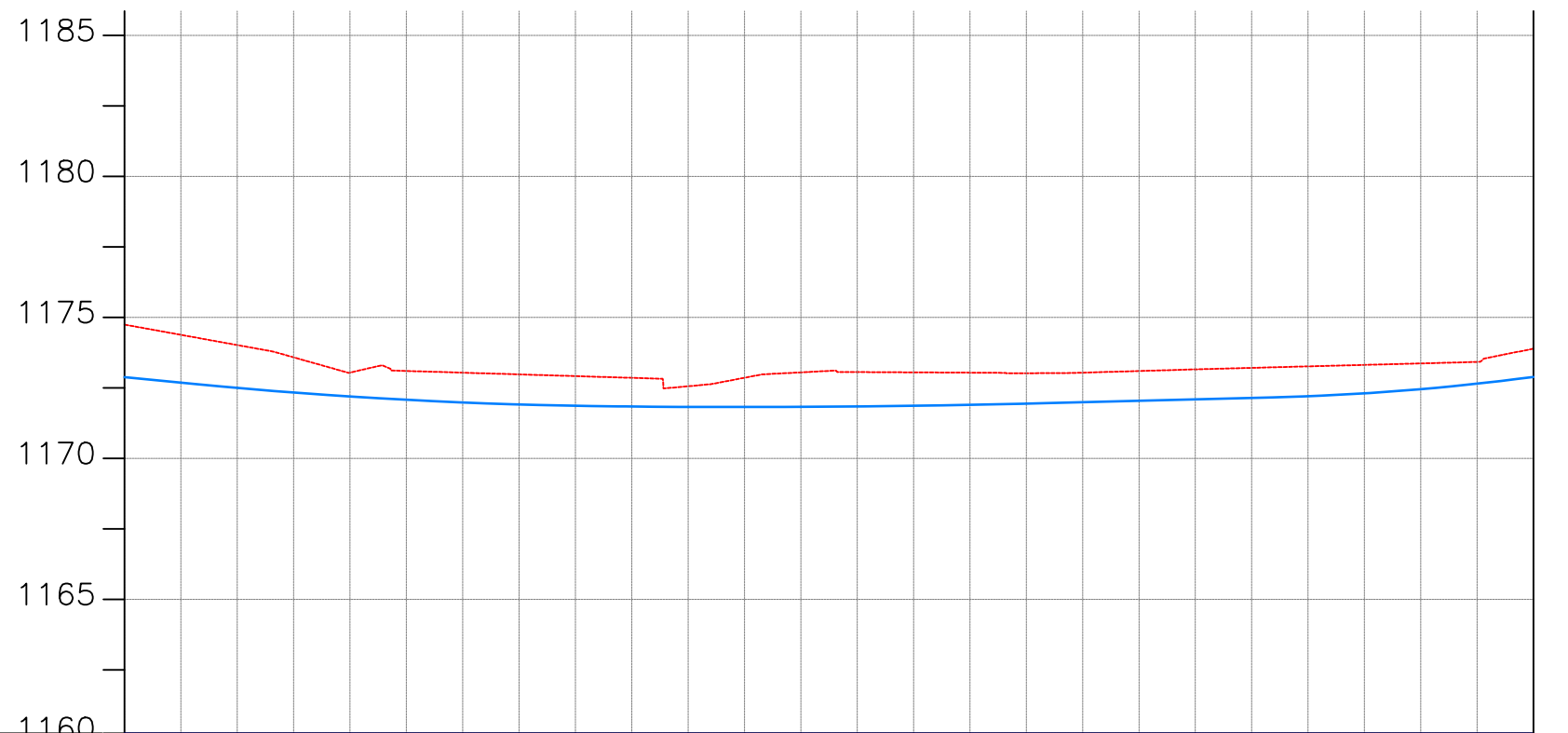
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 0+500.00 - 1+000.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (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)	1174.744	1174.381	1174.019	1173.583	1173.042	1173.100	1173.039	1172.978	1172.917	1172.856	1172.558	1172.859	1173.050	1173.061	1173.051	1173.040	1173.019	1173.040	1173.098	1173.156	1173.210	1173.262	1173.315	1173.367	1173.420	1173.890		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1172.88	1172.69	1172.50	1172.34	1172.20	1172.08	1171.98	1171.91	1171.86	1171.84	1171.83	1171.82	1171.83	1171.84	1171.87	1171.90	1171.94	1171.99	1172.04	1172.09	1172.14	1172.20	1172.31	1172.46	1172.65	1172.89		

AMENDMENTS		
No	Date	Revision

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LEGEND

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

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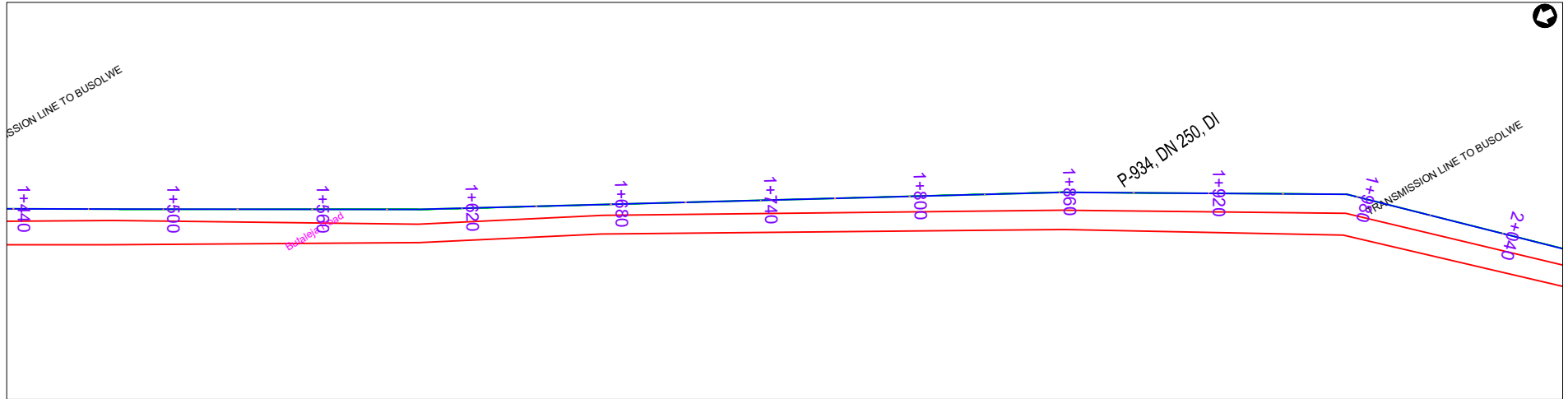
MINISTRY OF WATER AND ENVIRONMENT

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

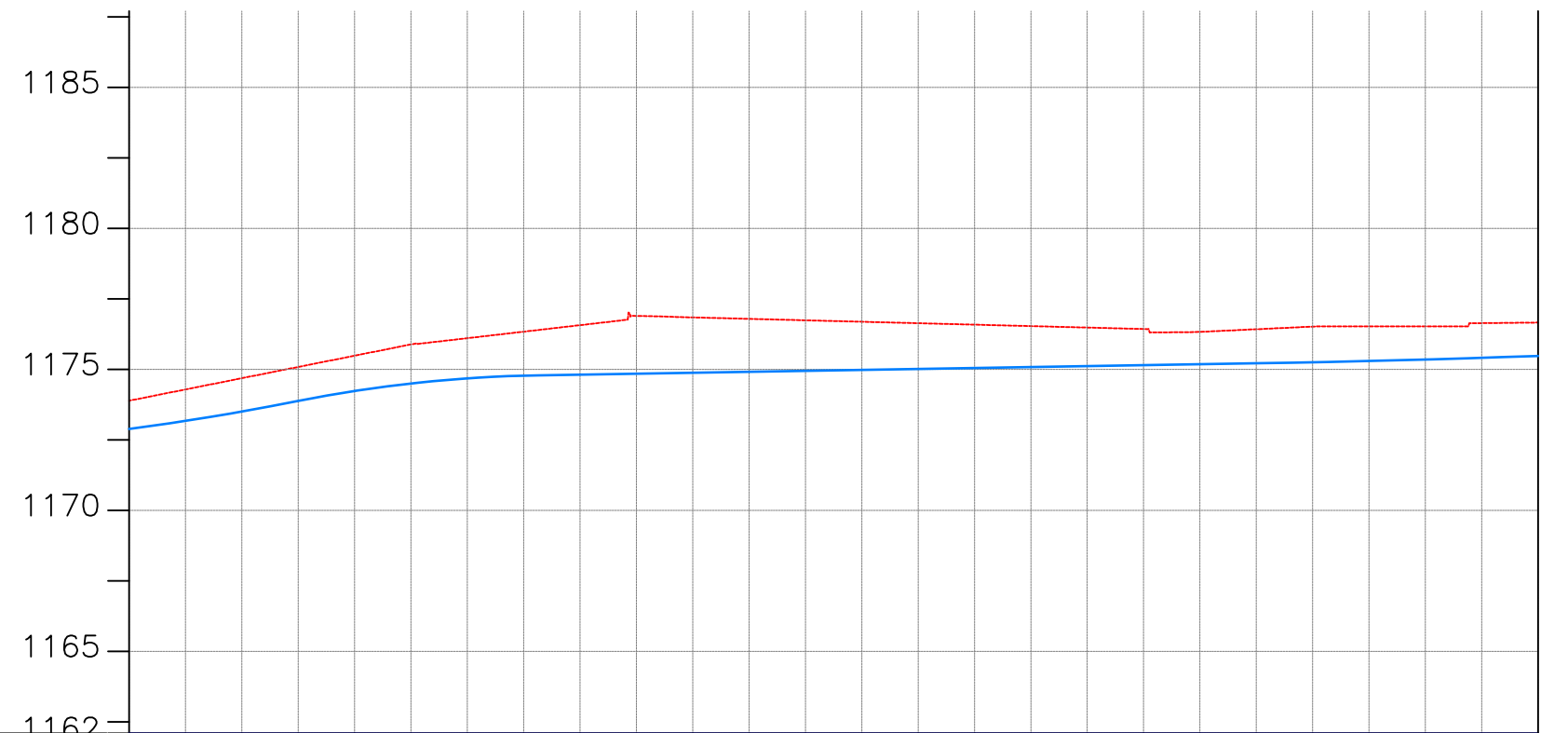
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 1+000.00 - 1+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (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)	1173.890	1174.289	1174.689	1175.088	1175.487	1175.886	1176.107	1176.338	1176.569	1176.898	1176.845	1176.793	1176.742	1176.690	1176.639	1176.587	1176.536	1176.484	1176.433	1176.332	1176.425	1176.518	1176.528	1176.527	1176.641	1176.662		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1172.89	1173.18	1173.51	1173.88	1174.23	1174.50	1174.68	1174.78	1174.82	1174.85	1174.88	1174.92	1174.95	1174.98	1175.02	1175.05	1175.08	1175.12	1175.15	1175.18	1175.22	1175.25	1175.30	1175.35	1175.41	1175.48		

AMENDMENTS		
No	Date	Revision

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LEGEND

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

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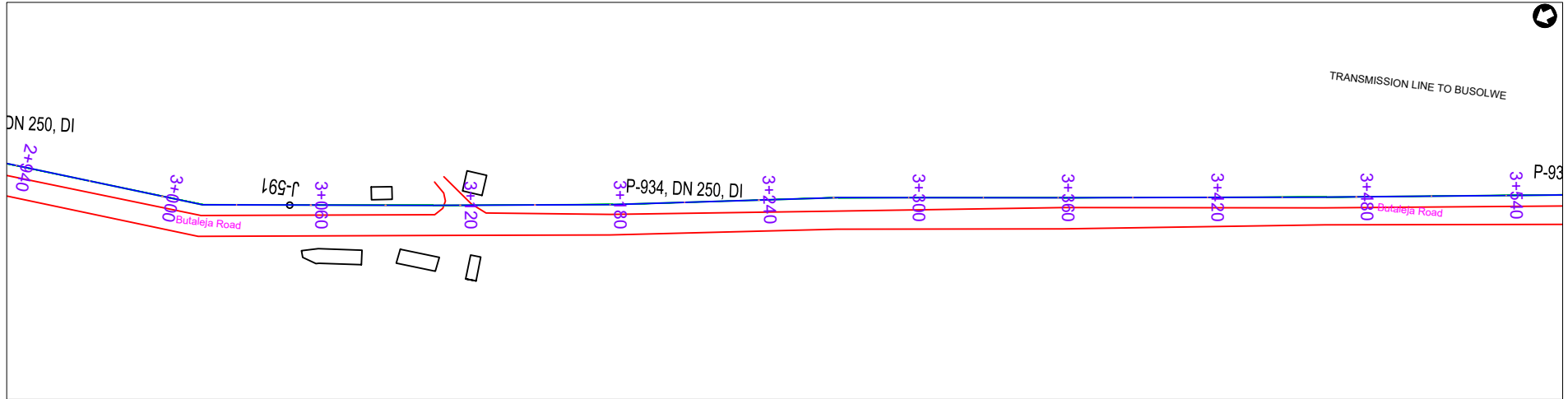
MINISTRY OF WATER AND ENVIRONMENT

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

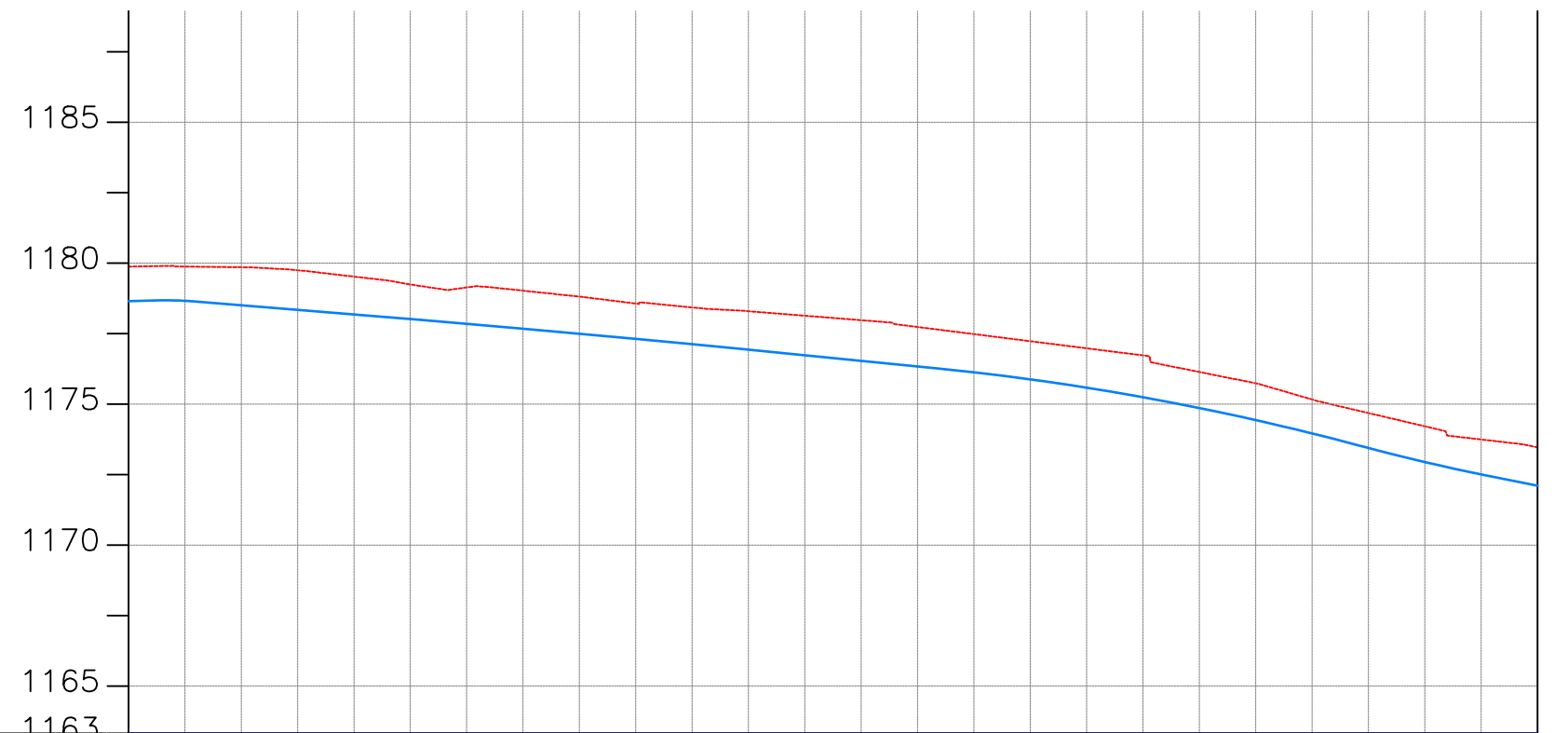
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 1+500.00 - 2+000.00)**

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



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
3+000	1179.879	DN 250 DI PIPE PN16	1178.65
	1179.880		1178.66
3+040	1179.856		1178.51
	1179.750		1178.34
3+080	1179.524		1178.18
	1179.245		1178.02
3+120	1179.140		1177.85
	1179.026		1177.68
3+160	1178.813		1177.50
	1178.569		1177.31
3+200	1178.431		1177.13
	1178.296		1176.93
3+240	1178.137		1176.74
	1177.978		1176.54
3+280	1177.737		1176.34
	1177.485		1176.13
3+320	1177.233		1175.88
	1176.982		1175.58
3+360	1176.730		1175.25
	1176.142		1174.86
3+400	1175.740	1174.43	
	1175.167	1173.96	
3+440	1174.685	1173.45	
	1174.216	1172.95	
3+480	1173.748	1172.51	
3+500	1173.470	1172.11	

AMENDMENTS		
No	Date	Revision

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LEGEND

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

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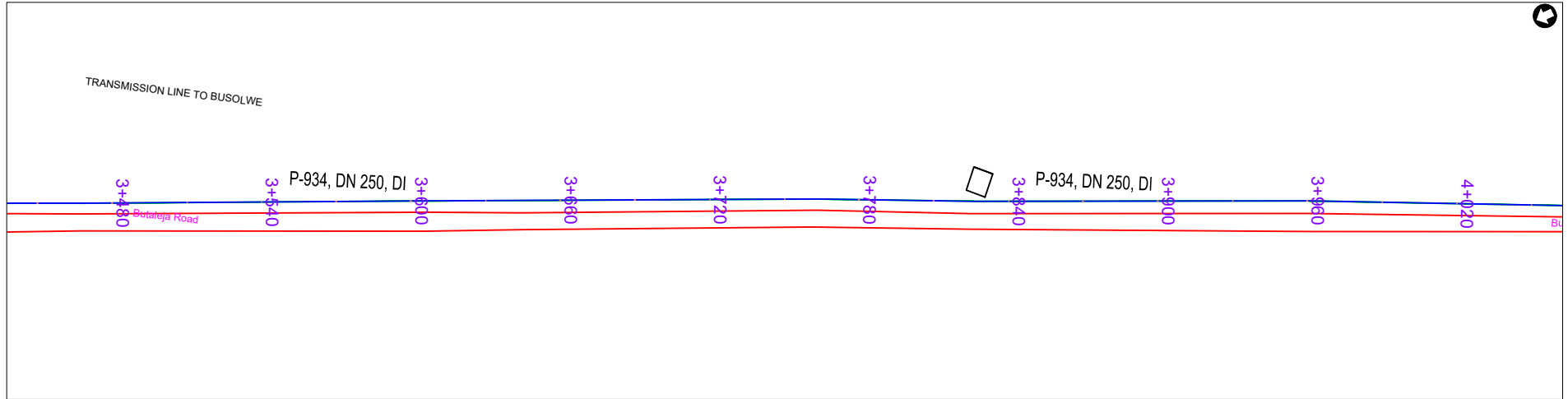
MINISTRY OF WATER AND ENVIRONMENT

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

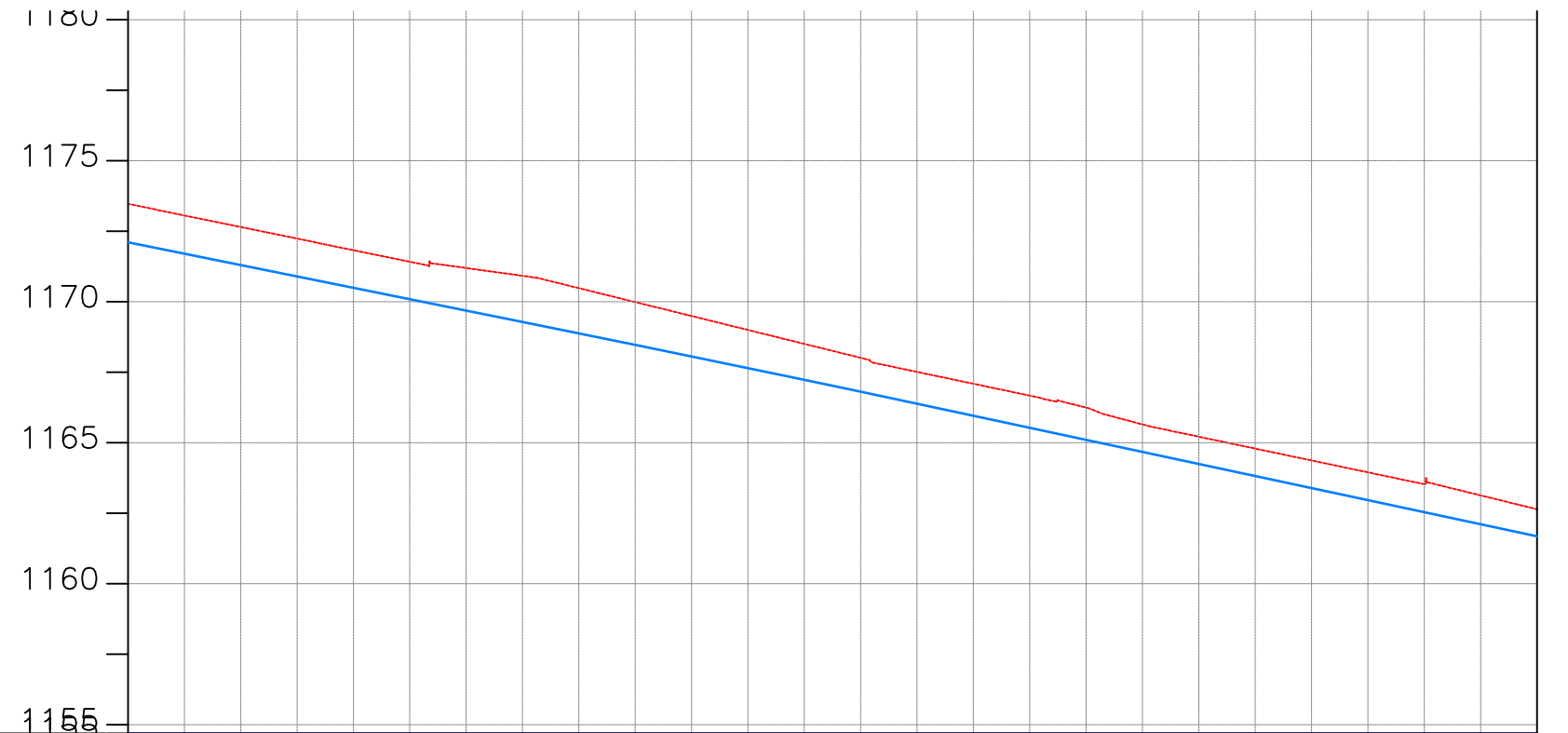
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 3+000.00 - 3+500.00)**

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



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
3+500	1173.470	DN 250 DI PIPE PN16	1172.11
3+520	1173.060		1171.70
3+560	1172.238		1170.90
3+600	1171.828		1170.49
3+640	1171.417		1170.09
3+680	1171.195		1169.69
3+720	1170.919		1169.28
3+760	1170.481		1168.88
3+800	1169.987		1168.47
3+840	1169.493		1168.06
3+880	1168.999		1167.65
3+920	1168.504		1167.23
3+960	1168.010		1166.81
4+000	1167.511		1166.38
4+000	1167.090		1165.96
4+000	1166.669		1165.53
4+000	1166.245		1165.10
4+000	1165.649		1164.68
4+000	1165.212		1164.25
4+000	1164.791		1163.82
4+000	1164.370	1163.39	
4+000	1163.949	1162.96	
4+000	1163.528	1162.54	
4+000	1163.131	1162.11	
4+000	1162.640	1161.68	

AMENDMENTS

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LEGEND

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

REPUBLIC OF UGANDA

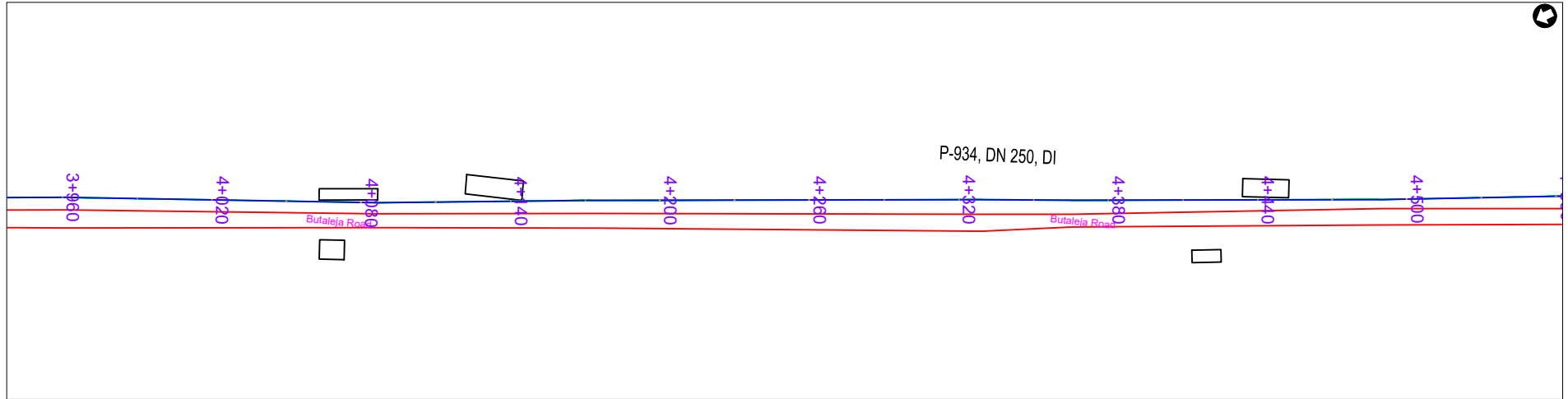
MINISTRY OF WATER AND ENVIRONMENT

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

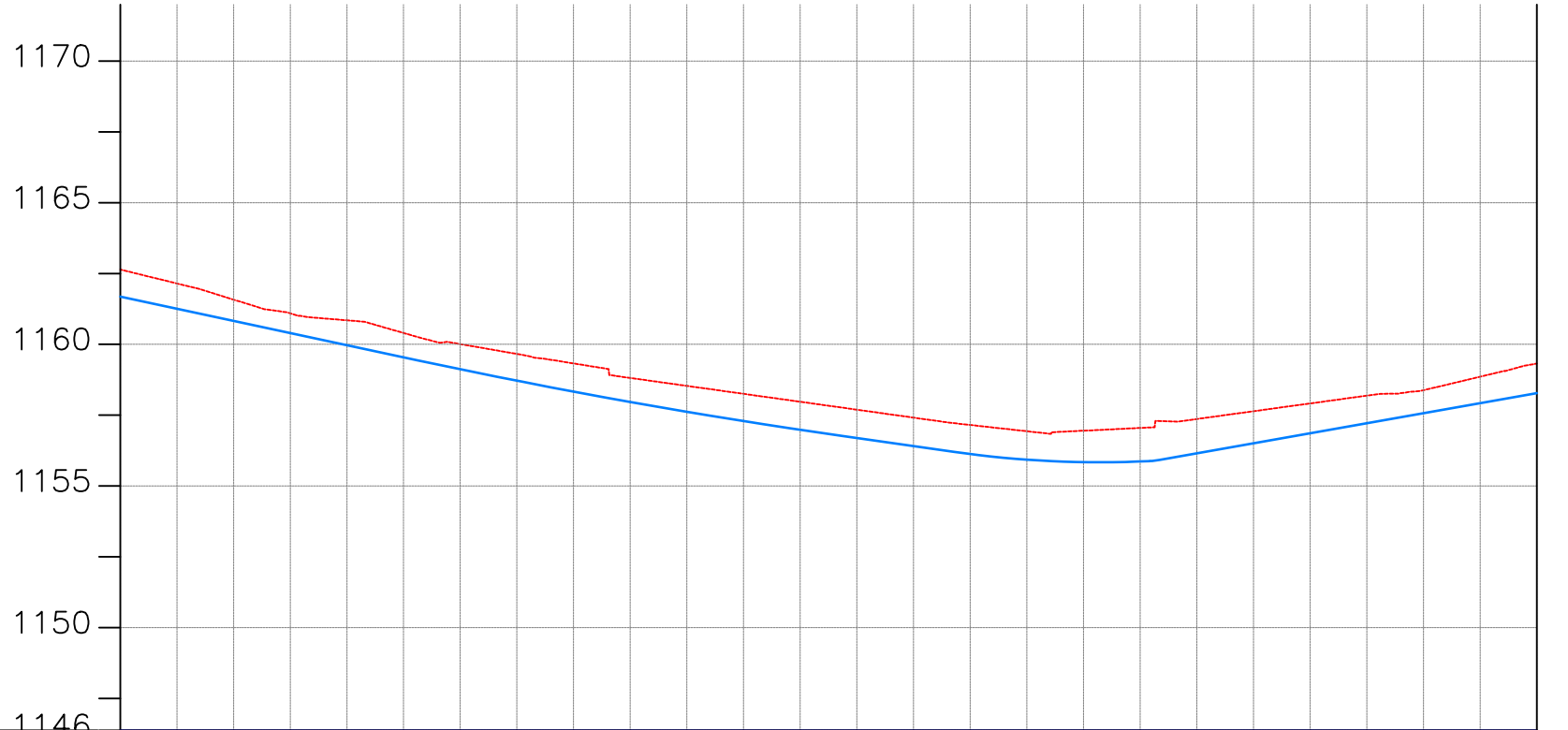
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 3+500.00 - 4+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 3+500.00 - 4+000.00)	Sheet No.: 8
Format: A3	



PLAN LAYOUT



CHAINAGE	4+000		4+040		4+080		4+120		4+160		4+200		4+240		4+280		4+320		4+360		4+400		4+440		4+480		4+500	
GROUND LEVEL(m)	1162.640	1162.148	1161.579	1161.096	1160.848	1160.402	1160.009	1159.661	1159.327	1158.814	1158.534	1158.254	1157.974	1157.694	1157.413	1157.155	1156.934	1156.952	1157.049	1157.364	1157.639	1157.914	1158.189	1158.381	1158.858	1159.322	4+500	
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1161.68	1161.25	1160.83	1160.40	1159.97	1159.54	1159.12	1158.72	1158.33	1157.97	1157.62	1157.29	1156.98	1156.69	1156.41	1156.13	1155.93	1155.84	1155.87	1156.15	1156.51	1156.86	1157.22	1157.57	1157.92	1158.28	4+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
- DAV Double Orifice Air Valve
- WO_2 Type 2 Washout
- (N01) Node detail No. 01

REPUBLIC OF UGANDA

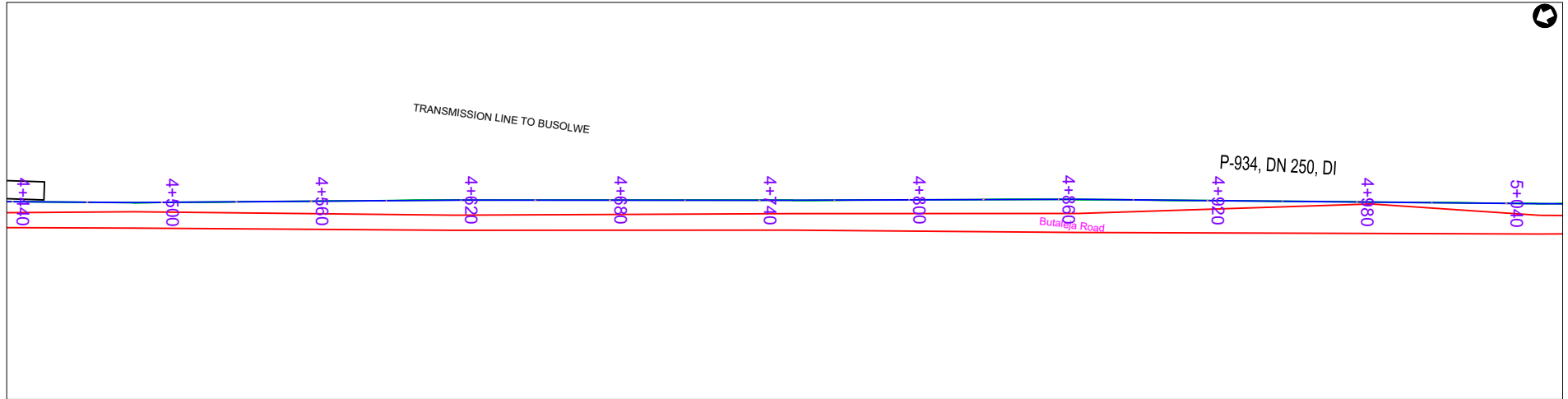
MINISTRY OF WATER AND ENVIRONMENT

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

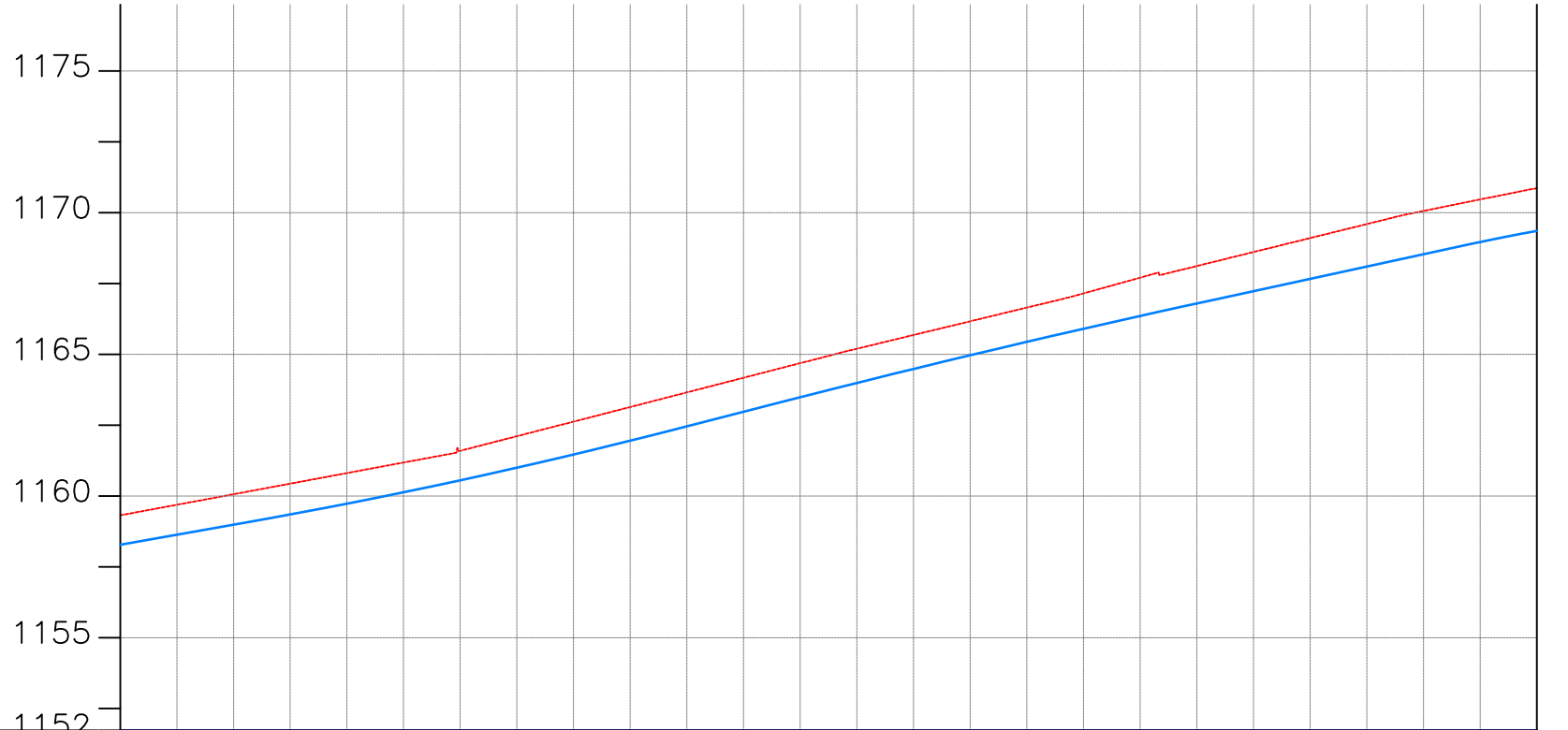
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 4+000.00 - 4+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 4+000.00 - 4+500.00)	Sheet No.: 9
Format: A3	



PLAN LAYOUT



CHAINAGE	4+500	4+520	4+560	4+600	4+640	4+680	4+720	4+760	4+800	4+840	4+880	4+920	4+960	5+000														
GROUND LEVEL(m)	1159.322	1159.691	1160.064	1160.436	1160.809	1161.181	1161.594	1162.109	1162.625	1163.141	1163.657	1164.172	1164.688	1165.198	1165.682	1166.166	1166.650	1167.151	1167.706	1168.117	1168.610	1169.104	1169.597	1170.060	1170.466	1170.863		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1158.28	1158.63	1158.99	1159.35	1159.73	1160.13	1160.56	1161.00	1161.47	1161.95	1162.46	1162.97	1163.48	1163.99	1164.48	1164.97	1165.44	1165.90	1166.35	1166.80	1167.23	1167.66	1168.10	1168.53	1168.96	1169.36		

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

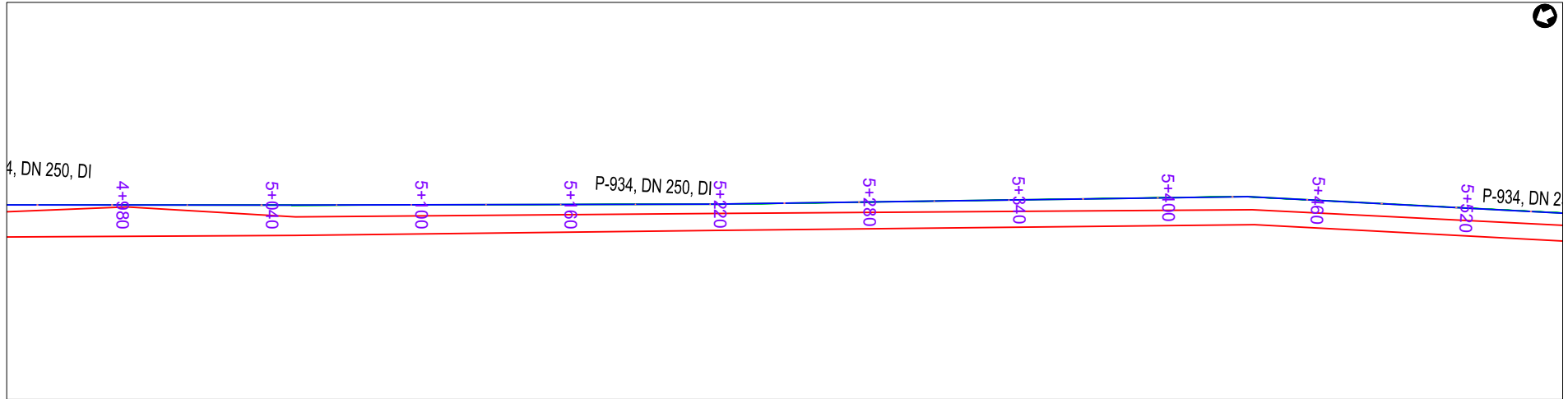
MINISTRY OF WATER AND ENVIRONMENT

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

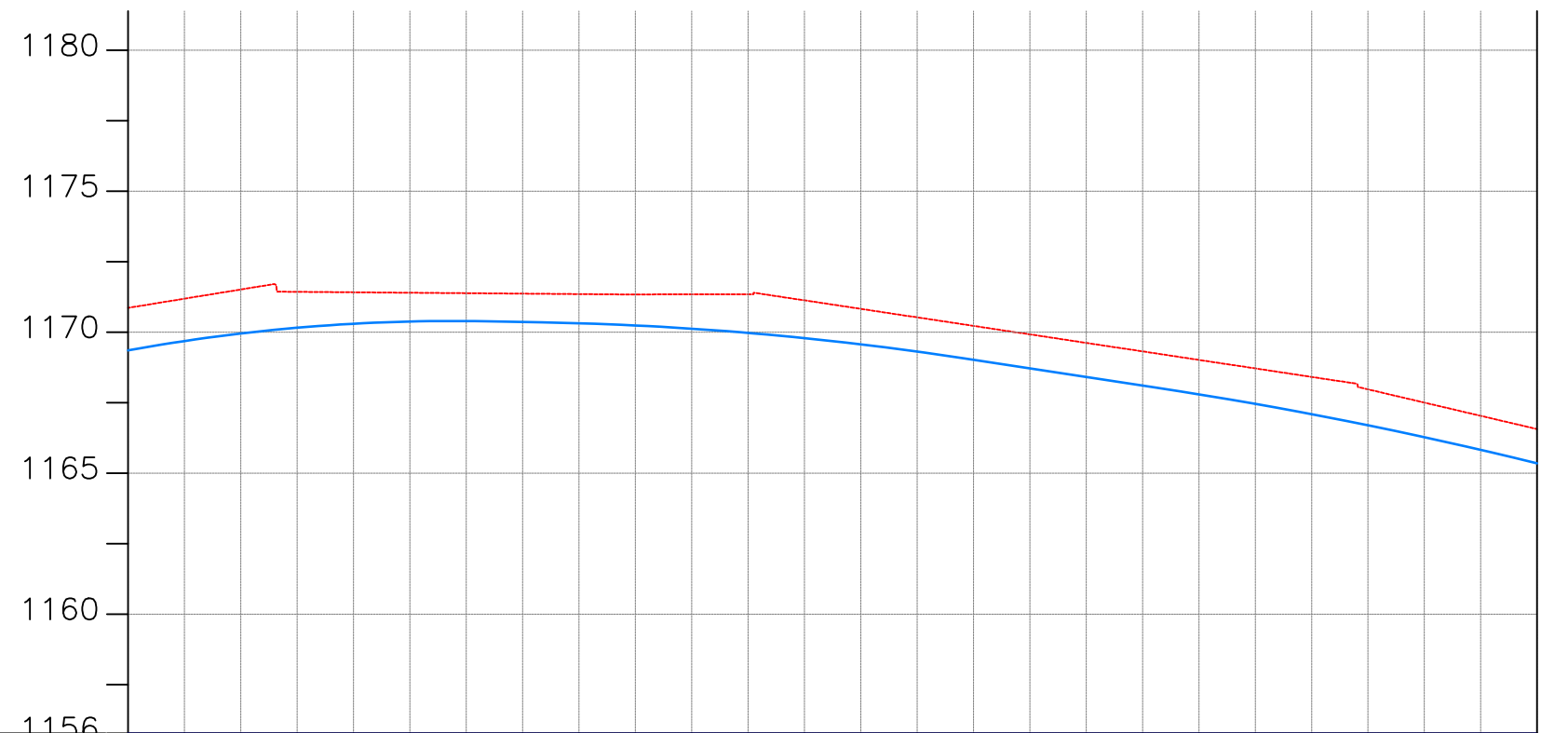
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 4+500.00 - 5+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Sheet No.: 10
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 4+500.00 - 5+000.00)	Format: A3



PLAN LAYOUT



CHAINAGE	5+000		5+040		5+080		5+120		5+160		5+200		5+240		5+280		5+320		5+360		5+400		5+440		5+480	5+500		
GROUND LEVEL(m)	1170.863	1171.189	1171.514	1171.431	1171.415	1171.399	1171.383	1171.367	1171.351	1171.340	1171.341	1171.343	1171.129	1170.827	1170.526	1170.224	1169.922	1169.620	1169.319	1169.017	1168.715	1168.413	1167.972	1167.502	1167.033	1166.563		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1169.36	1169.69	1169.95	1170.16	1170.30	1170.38	1170.39	1170.36	1170.32	1170.24	1170.12	1169.97	1169.79	1169.57	1169.31	1169.02	1168.72	1168.41	1168.11	1167.79	1167.46	1167.09	1166.70	1166.28	1165.83	1165.35		

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

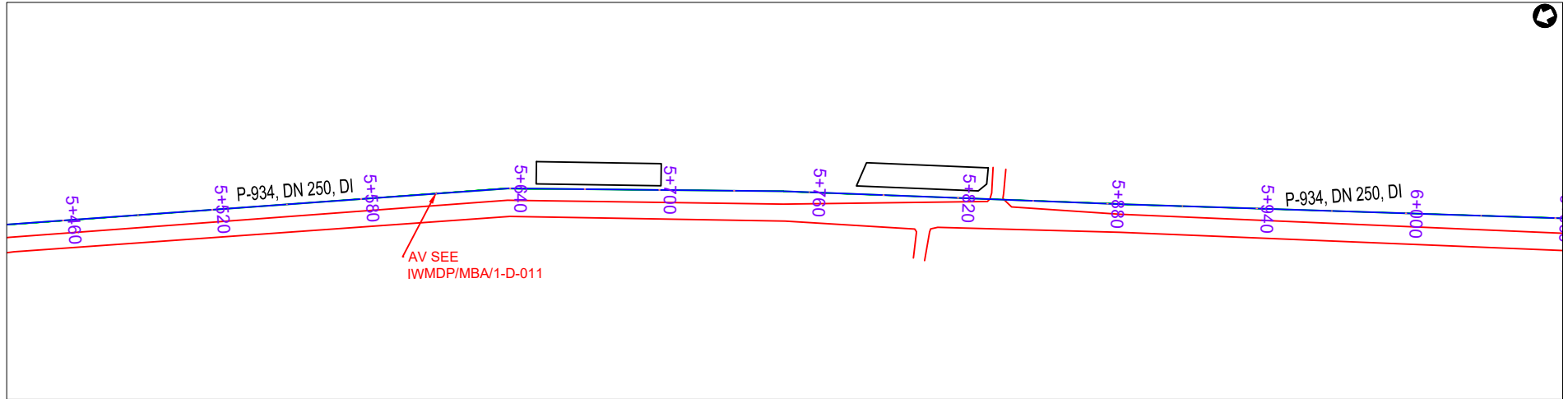
MINISTRY OF WATER AND ENVIRONMENT

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

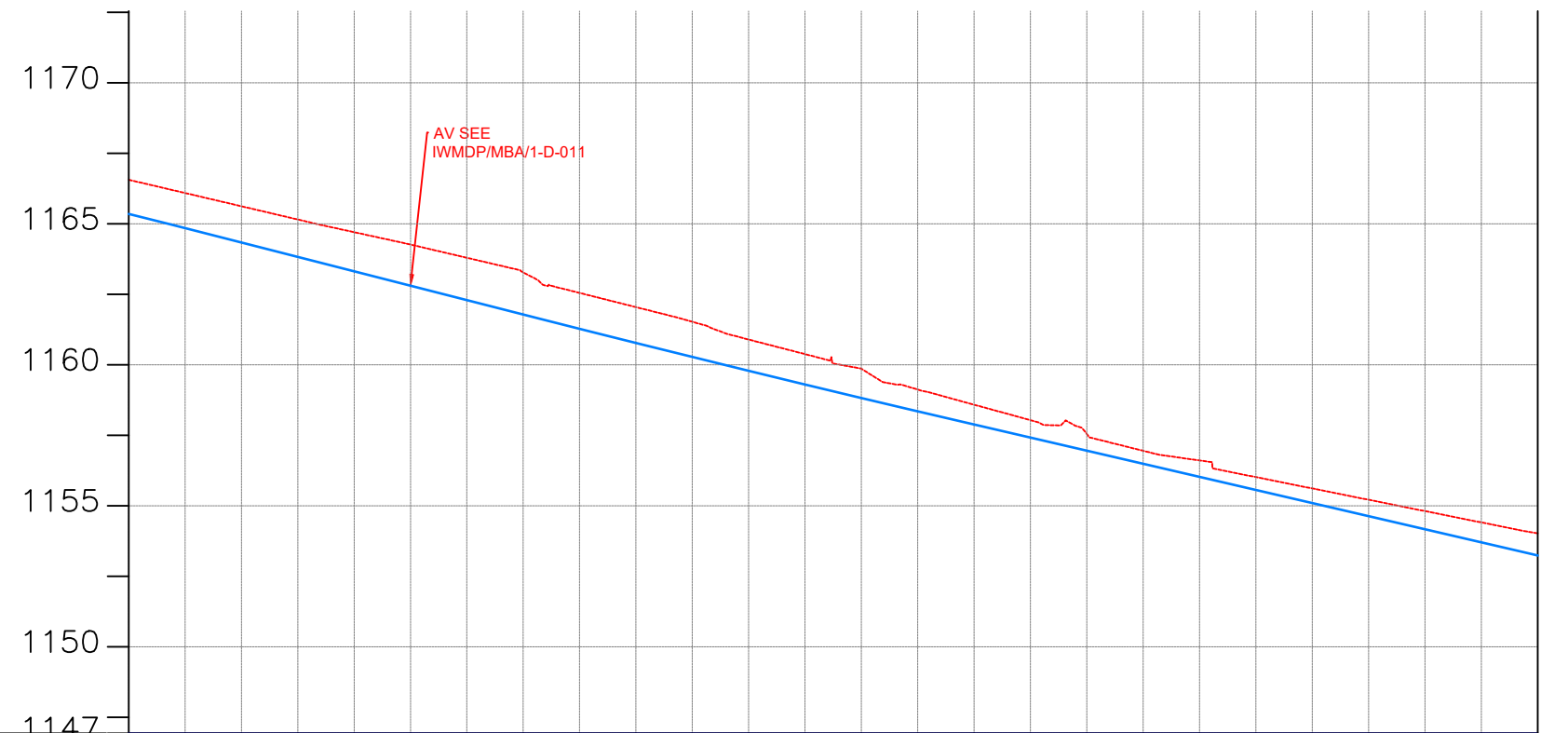
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 5+000.00 - 5+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 5+000.00 - 5+500.00)
Sheet No.: 11	Format: A3



PLAN LAYOUT



CHAINAGE	5+500	5+520		5+560		5+600		5+640		5+680		5+720		5+760		5+800		5+840		5+880		5+920		5+960		6+000		
GROUND LEVEL(m)	1166.563	1166.094	1165.624	1165.154	1164.704	1164.265	1163.797	1163.277	1162.551	1162.047	1161.527	1160.898	1160.379	1159.861	1159.123	1158.586	1158.037	1157.553	1156.952	1156.609	1156.018	1155.616	1155.215	1154.813	1154.411	1154.024		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1165.35	1164.85	1164.34	1163.83	1163.32	1162.81	1162.30	1161.79	1161.28	1160.78	1160.28	1159.79	1159.30	1158.83	1158.35	1157.89	1157.42	1156.96	1156.49	1156.03	1155.56	1155.10	1154.63	1154.17	1153.70	1153.24		

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

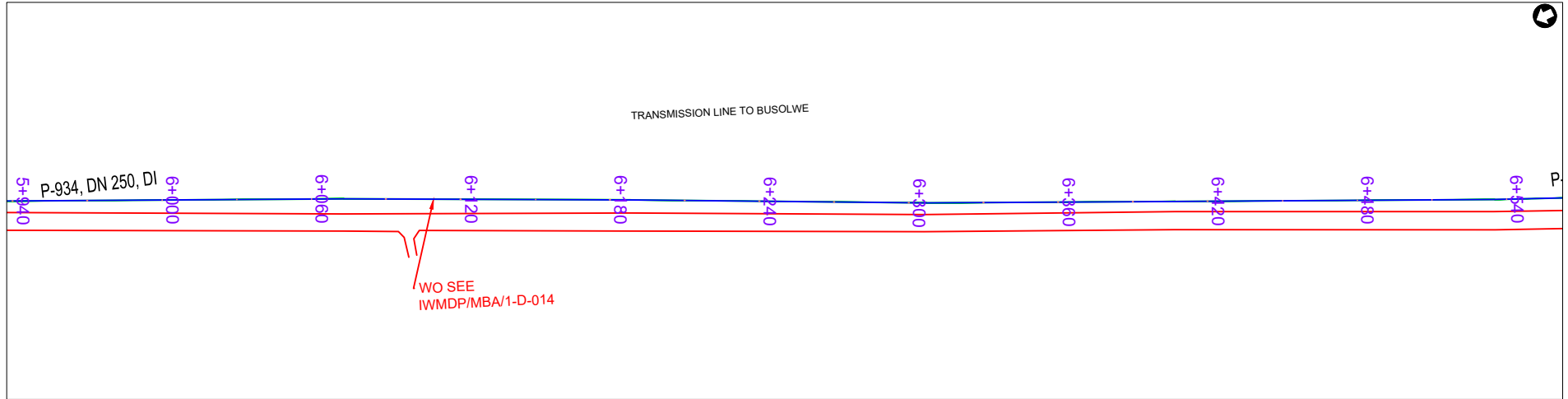
MINISTRY OF WATER AND ENVIRONMENT

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

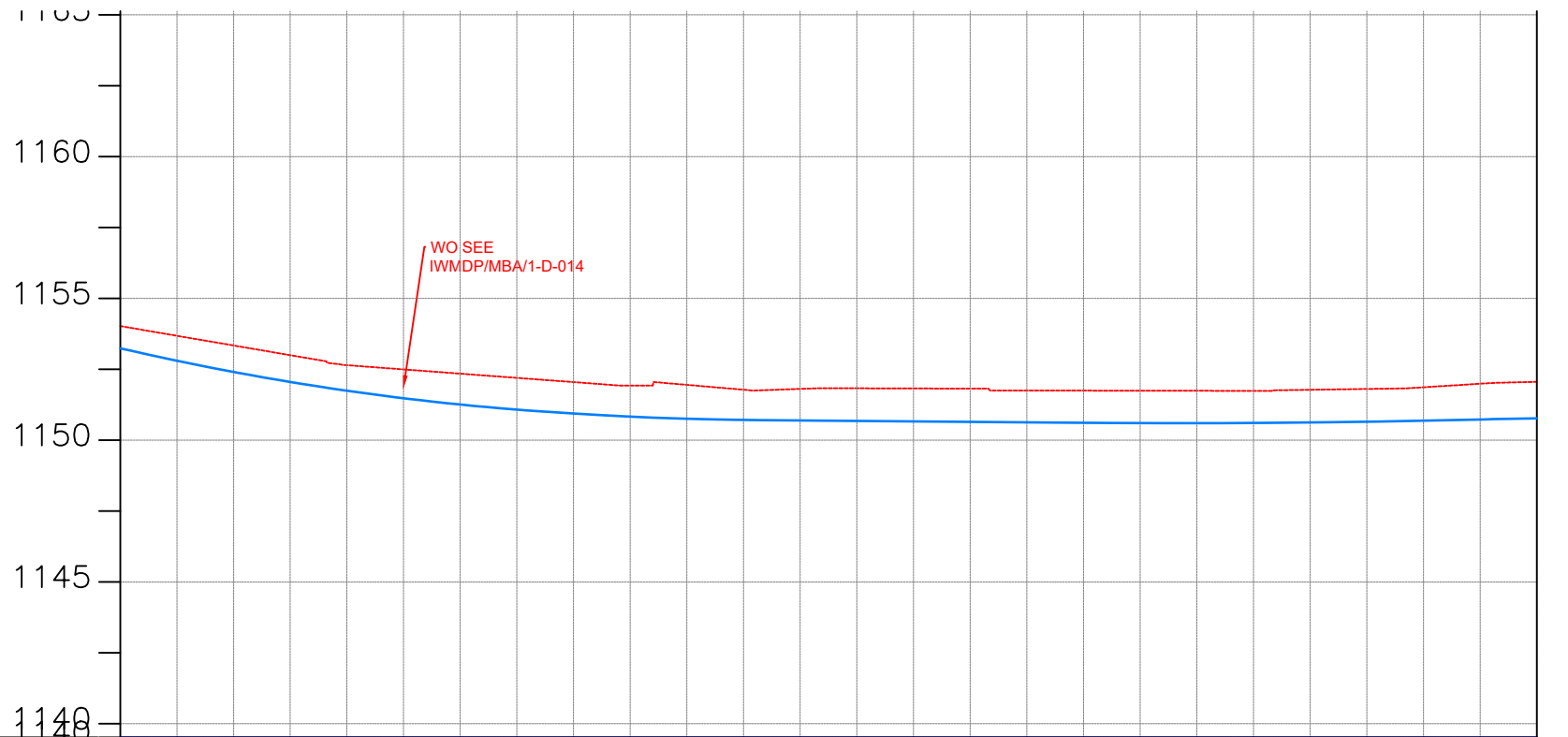
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 5+500.00 - 6+000.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Sheet No.: 12
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 5+500.00 - 6+000.00)	Format: A3



PLAN LAYOUT



CHAINAGE	6+000		6+040		6+080		6+120		6+160		6+200		6+240		6+280		6+320		6+360		6+400		6+440		6+480	6+500		
GROUND LEVEL(m)	1154.024	1153.682	1153.340	1152.998	1152.645	1152.496	1152.346	1152.197	1152.048	1151.925	1151.951	1151.780	1151.809	1151.830	1151.824	1151.819	1151.751	1151.748	1151.745	1151.742	1151.739	1151.778	1151.807	1151.866	1151.990	1152.057		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1153.24	1152.80	1152.41	1152.05	1151.75	1151.48	1151.26	1151.08	1150.94	1150.83	1150.76	1150.71	1150.69	1150.68	1150.66	1150.64	1150.63	1150.61	1150.60	1150.60	1150.61	1150.63	1150.65	1150.69	1150.73	1150.77		

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

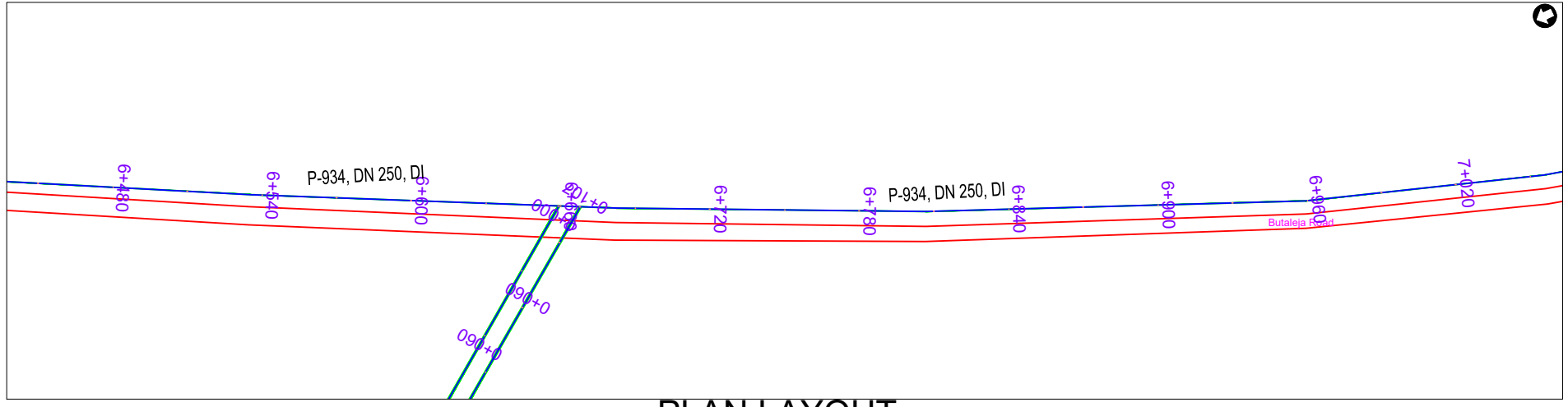
MINISTRY OF WATER AND ENVIRONMENT

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

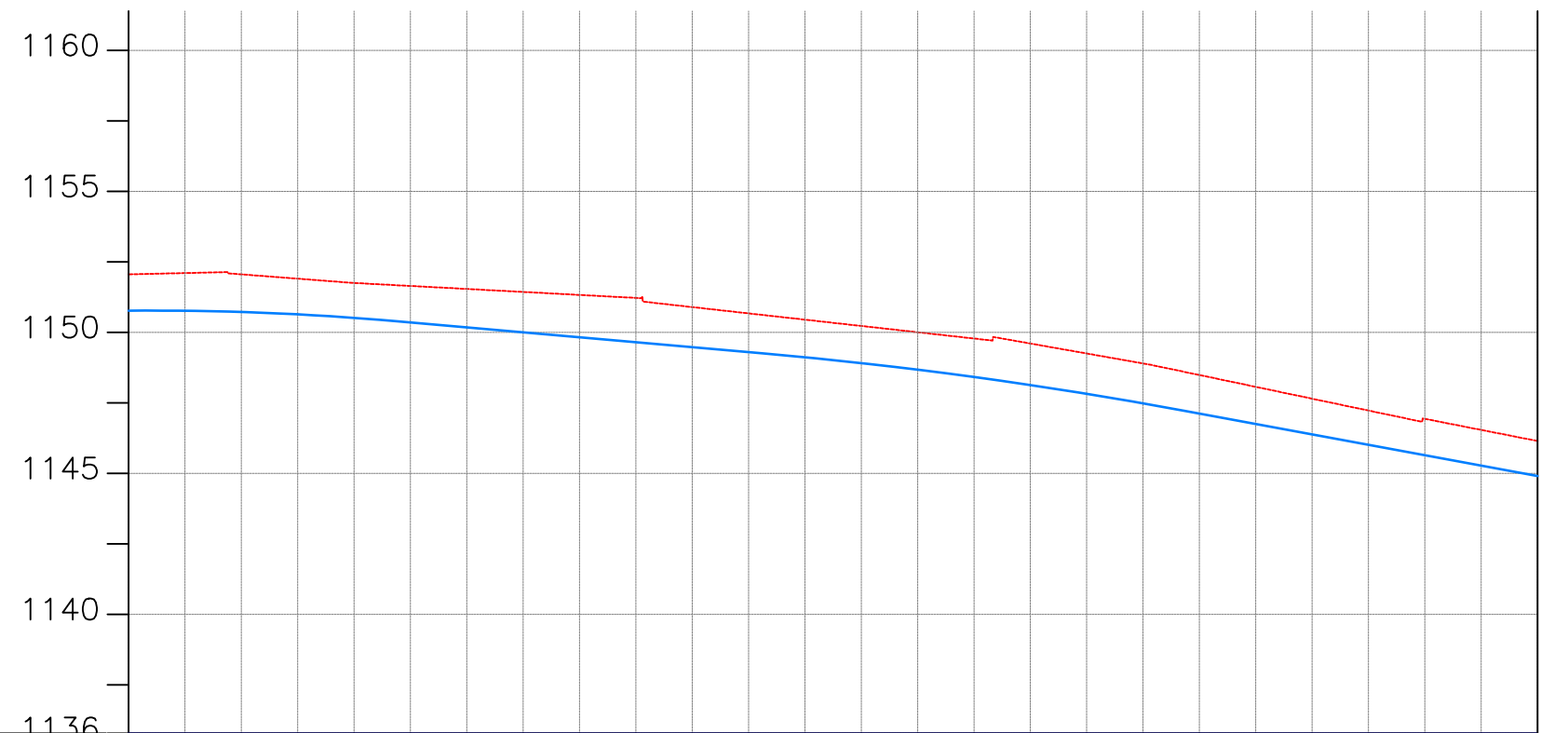
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 6+000.00 - 6+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Format: A3
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 6+000.00 - 6+500.00)	Sheet No.: 13



PLAN LAYOUT



CHAINAGE	6+500	6+520	6+560	6+600	6+640	6+680	6+720	6+760	6+800	6+840	6+880	6+920	6+960	7+000														
GROUND LEVEL(m)	1152.057	1152.102	1152.056	1151.903	1151.751	1151.645	1151.539	1151.433	1151.327	1151.221	1150.895	1150.672	1150.449	1150.226	1150.003	1149.781	1149.604	1149.250	1148.896	1148.486	1148.066	1147.646	1147.226	1146.933	1146.539	1146.145	1144.91	
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1150.77	1150.76	1150.72	1150.64	1150.51	1150.35	1150.17	1150.00	1149.82	1149.65	1149.47	1149.30	1149.11	1148.91	1148.67	1148.41	1148.13	1147.82	1147.48	1147.12	1146.75	1146.38	1146.01	1145.64	1145.28	1144.91		

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

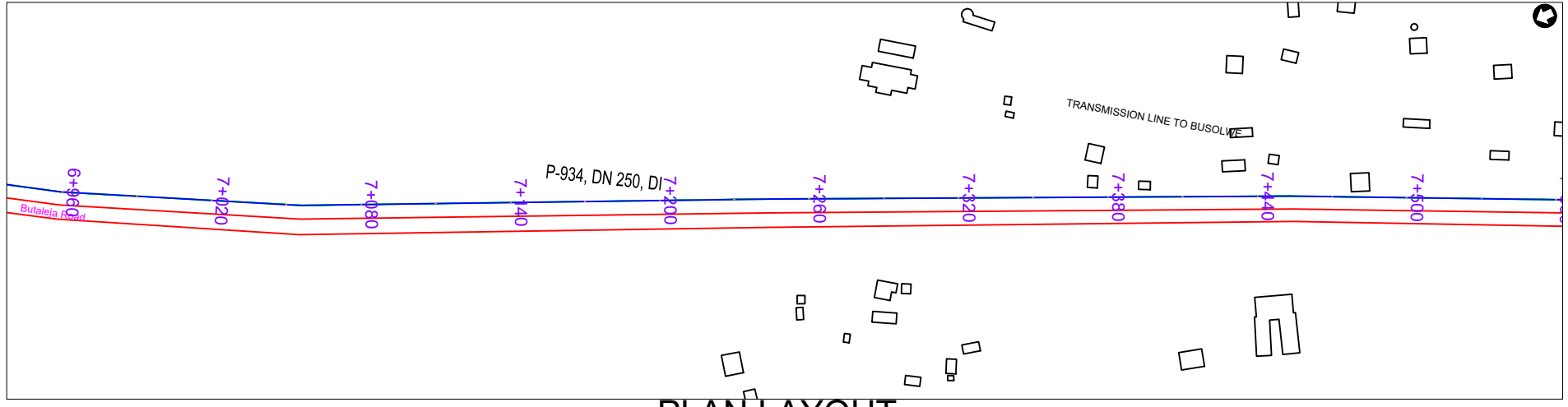
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

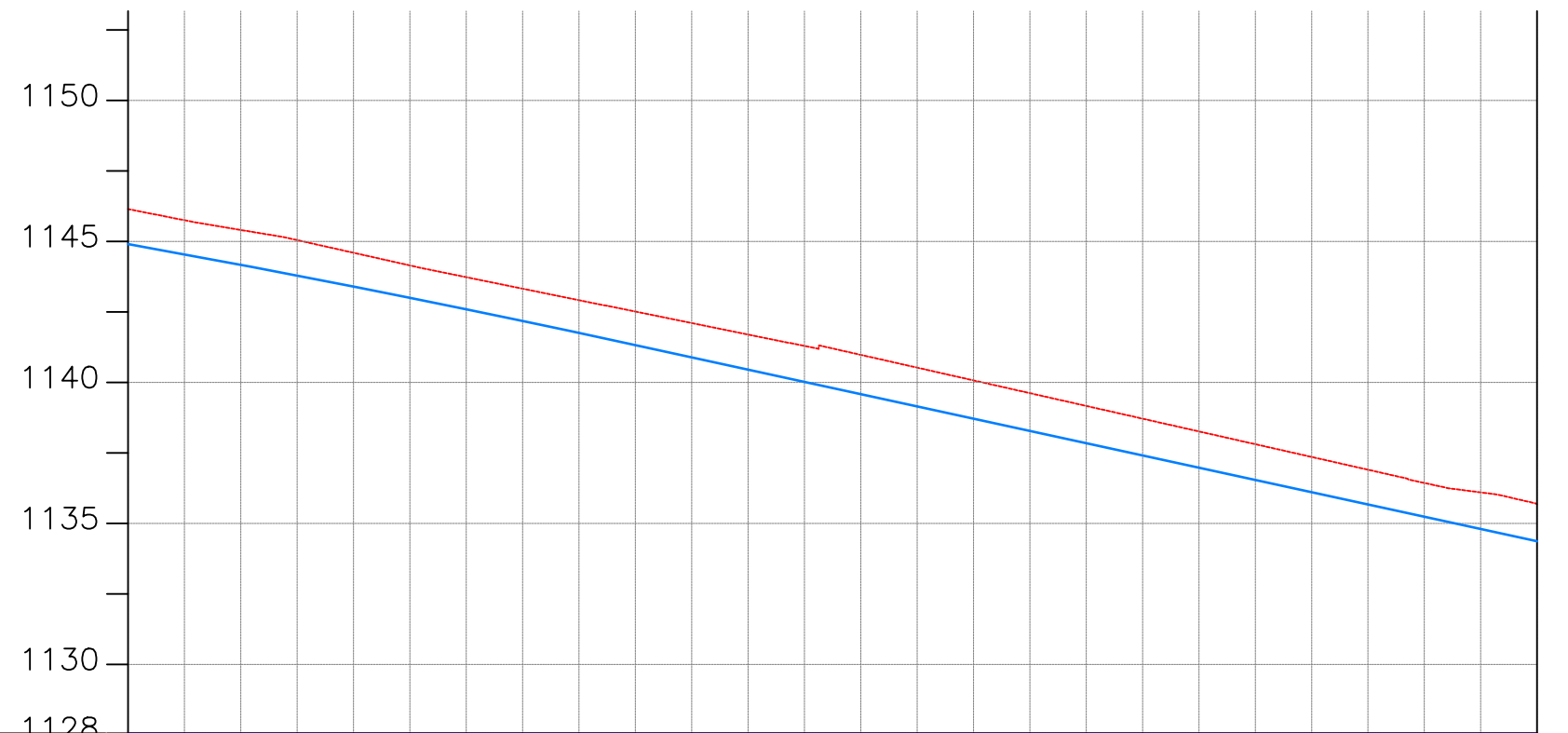
Drawing Title:

**TRANSMISSION LINES
TL TO BUSOLWE (CH 6+500.00 - 7+000.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 6+500.00 - 7+000.00)	Sheet No.: 14
Format: A3	



PLAN LAYOUT



CHAINAGE	7+000		7+040		7+080		7+120		7+160		7+200		7+240		7+280		7+320		7+360		7+400		7+440		7+480	7+500		
GROUND LEVEL(m)	1146.145	1145.752	1145.406	1145.046	1144.597	1144.148	1143.730	1143.323	1142.917	1142.511	1142.105	1141.698	1141.292	1140.976	1140.524	1140.071	1139.619	1139.166	1138.713	1138.261	1137.808	1137.356	1136.903	1136.433	1136.099	1135.687		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1144.91	1144.54	1144.17	1143.79	1143.40	1143.00	1142.59	1142.18	1141.76	1141.32	1140.89	1140.45	1140.02	1139.58	1139.15	1138.71	1138.28	1137.85	1137.41	1136.98	1136.54	1136.11	1135.67	1135.24	1134.80	1134.37		

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

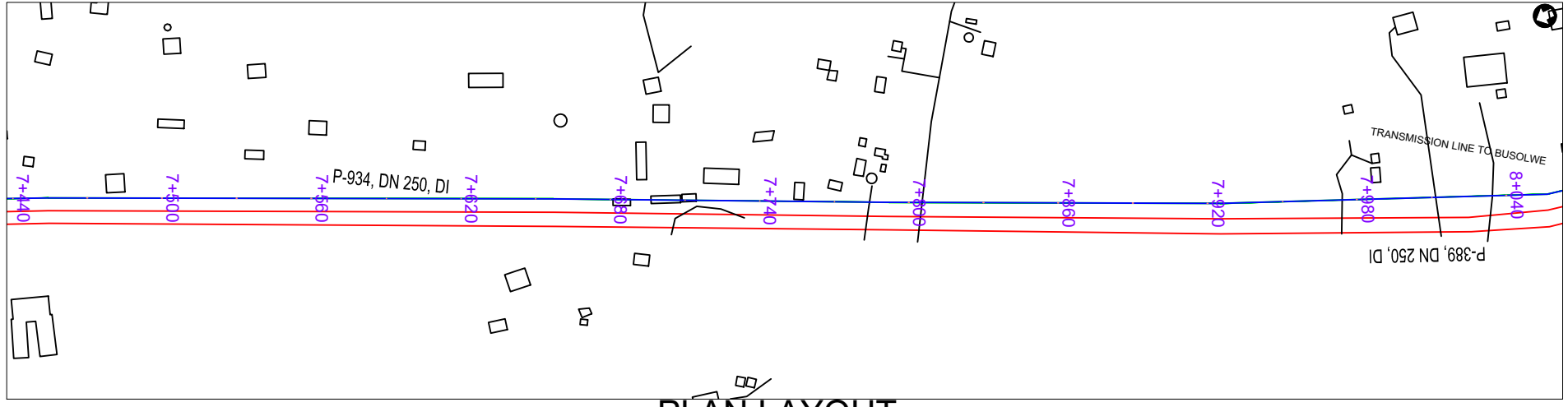
MINISTRY OF WATER AND ENVIRONMENT

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

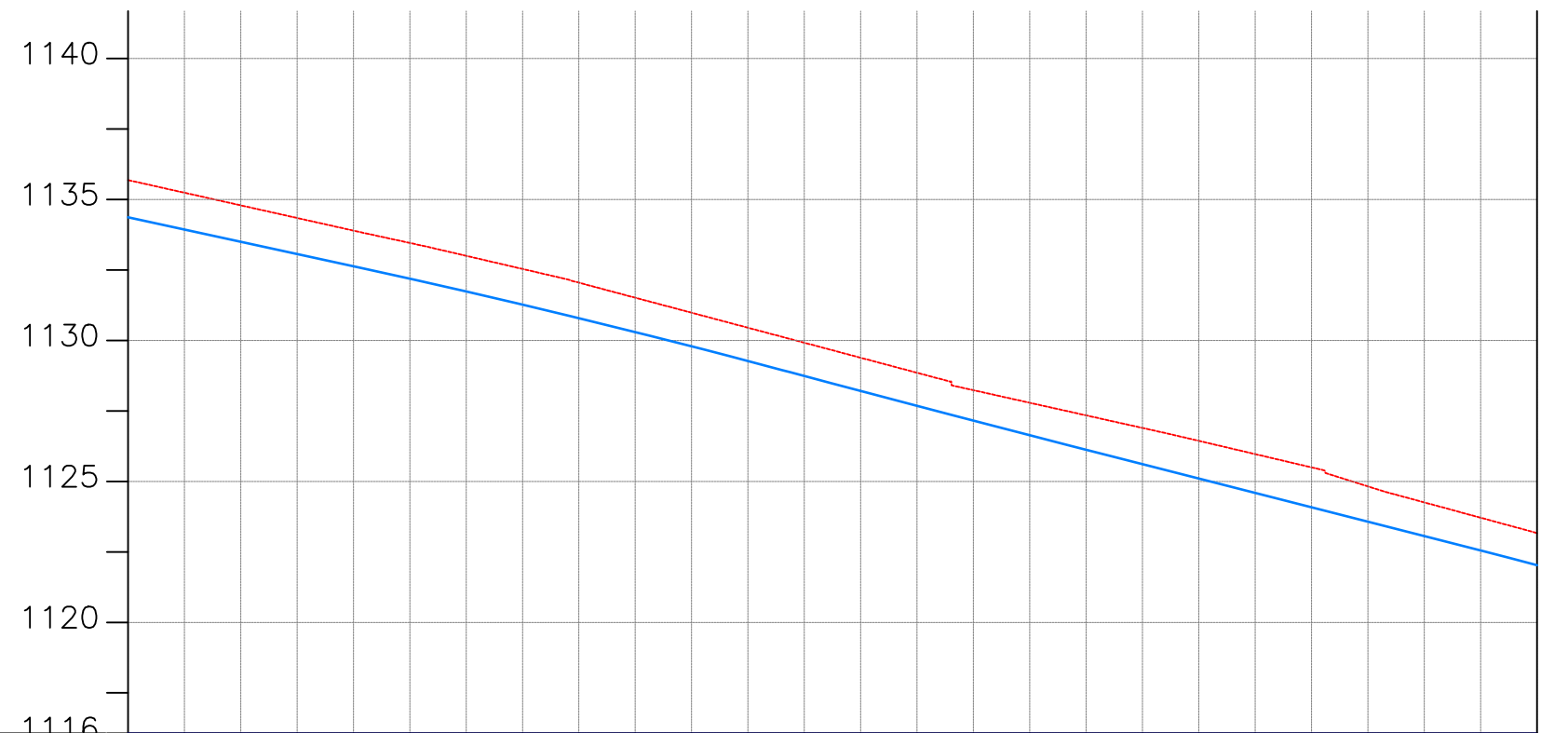
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 7+000.00 - 7+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 7+000.00 - 7+500.00)	
Sheet No.: 15	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
7+500	1135.687	DN 250 DI PIPE PN16	1134.37
7+520	1135.239		1133.93
7+560	1134.791		1133.50
7+600	1134.343		1133.06
7+640	1133.895		1132.63
7+680	1133.457		1132.19
7+720	1133.001		1131.73
7+760	1132.535		1131.27
7+800	1132.048		1130.79
7+840	1131.515		1130.30
7+880	1130.983		1129.79
7+920	1130.451		1129.27
7+960	1129.918		1128.74
8+000	1129.386		1128.21
	1128.853		1127.68
	1128.235		1127.16
	1127.789	1126.64	
	1127.343	1126.12	
	1126.896	1125.61	
	1126.439	1125.10	
	1125.968	1124.59	
	1125.497	1124.08	
	1124.825	1123.57	
	1124.256	1123.06	
	1123.713	1122.55	
	1123.169	1122.03	

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

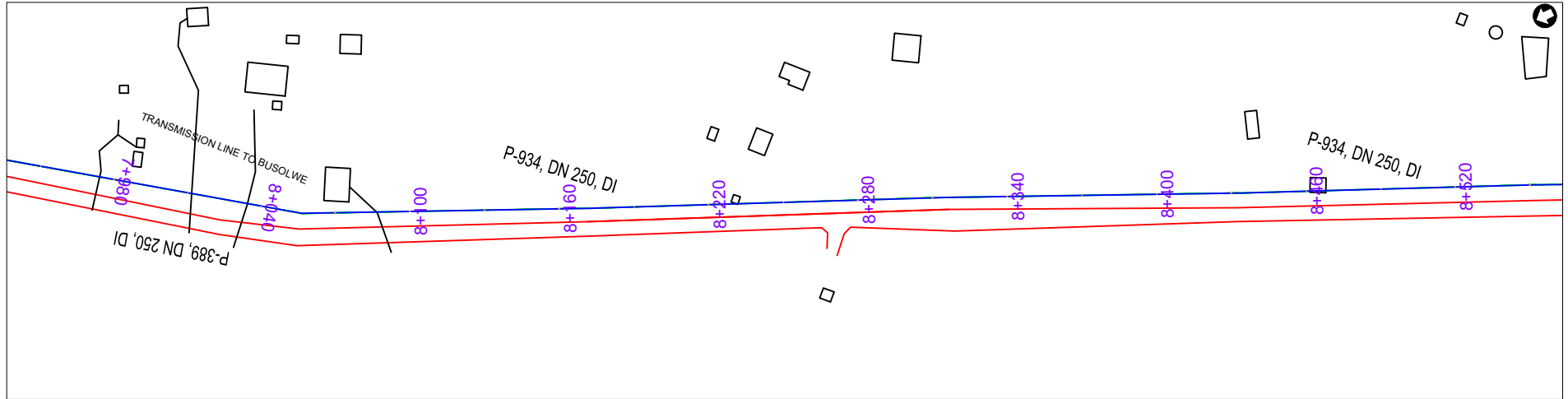
MINISTRY OF WATER AND ENVIRONMENT

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

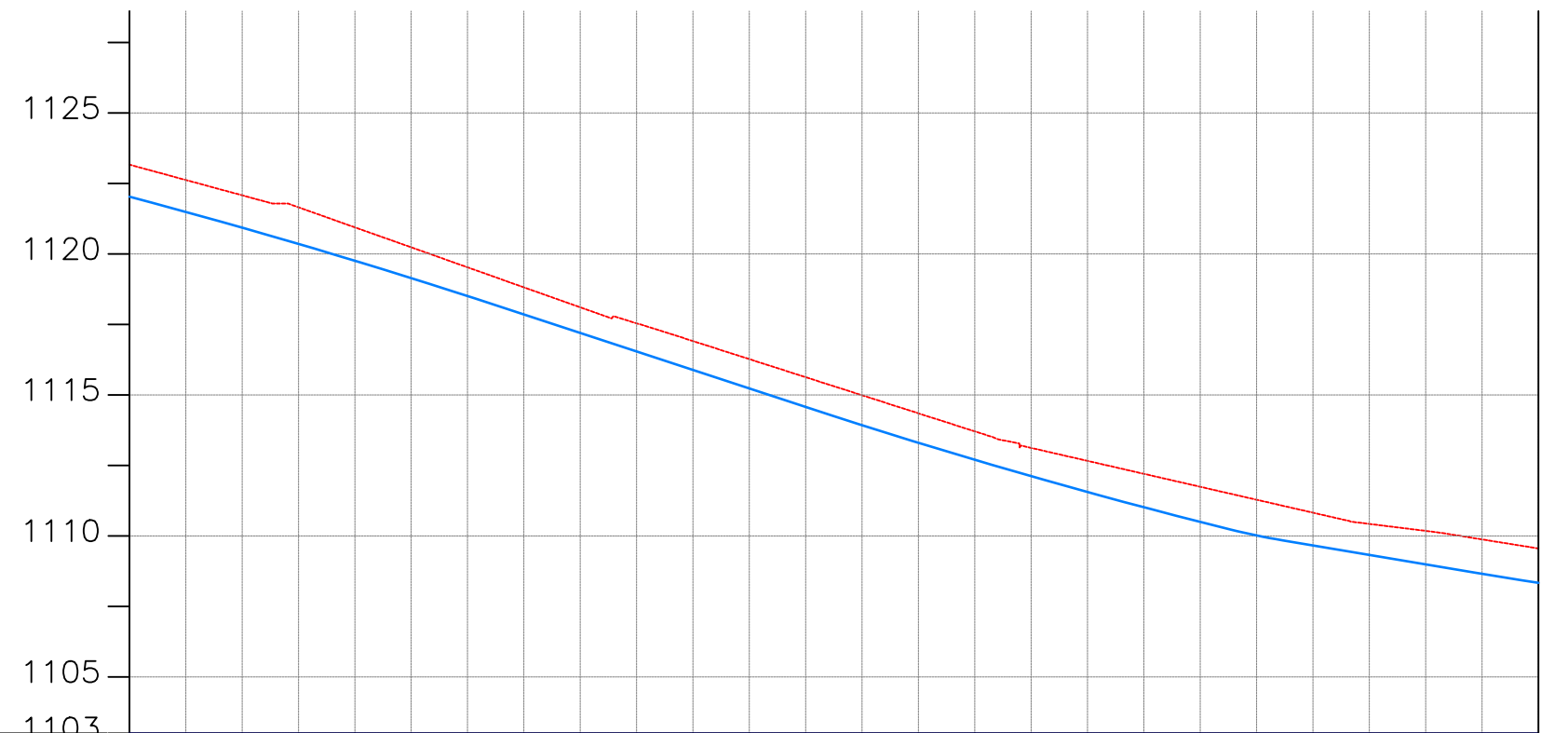
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 7+500.00 - 8+000.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 7+500.00 - 8+000.00)	Sheet No.: 16
Format: A3	



PLAN LAYOUT



CHAINAGE	8+000		8+040		8+080		8+120		8+160		8+200		8+240		8+280		8+320		8+360		8+400		8+440		8+480	8+500		
GROUND LEVEL(m)	1123.169	1122.626	1122.082	1121.656	1120.947	1120.237	1119.527	1118.818	1118.108	1117.543	1116.912	1116.272	1115.631	1114.990	1114.350	1113.709	1113.123	1112.663	1112.204	1111.745	1111.285	1110.826	1110.428	1110.180	1109.878	1109.557		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1122.03	1121.49	1120.93	1120.36	1119.76	1119.14	1118.51	1117.86	1117.20	1116.54	1115.89	1115.23	1114.58	1113.93	1113.31	1112.70	1112.12	1111.56	1111.02	1110.50	1110.02	1109.66	1109.33	1108.99	1108.66	1108.34		

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

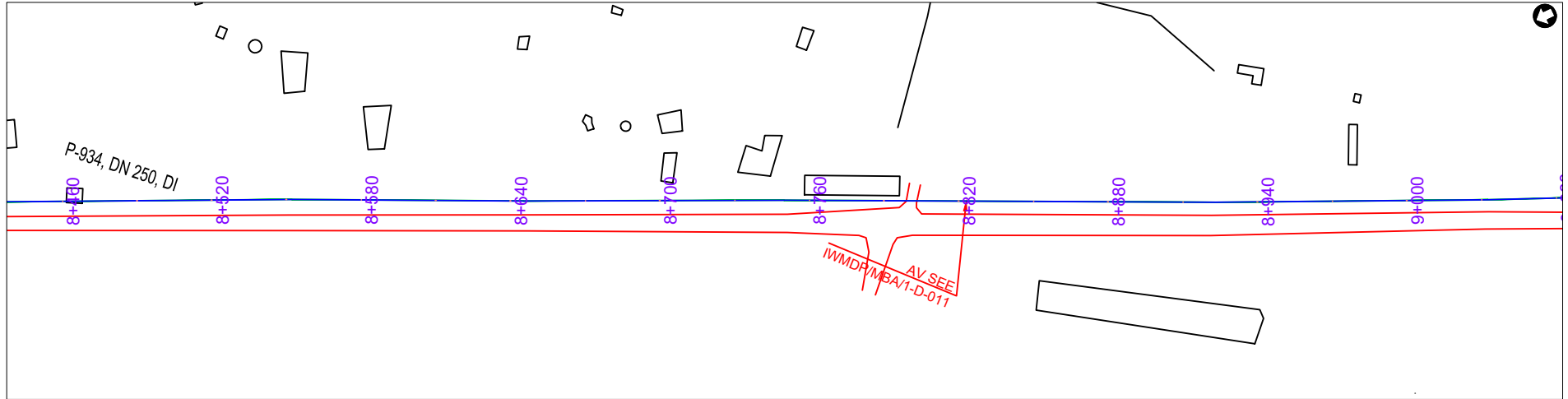
MINISTRY OF WATER AND ENVIRONMENT

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

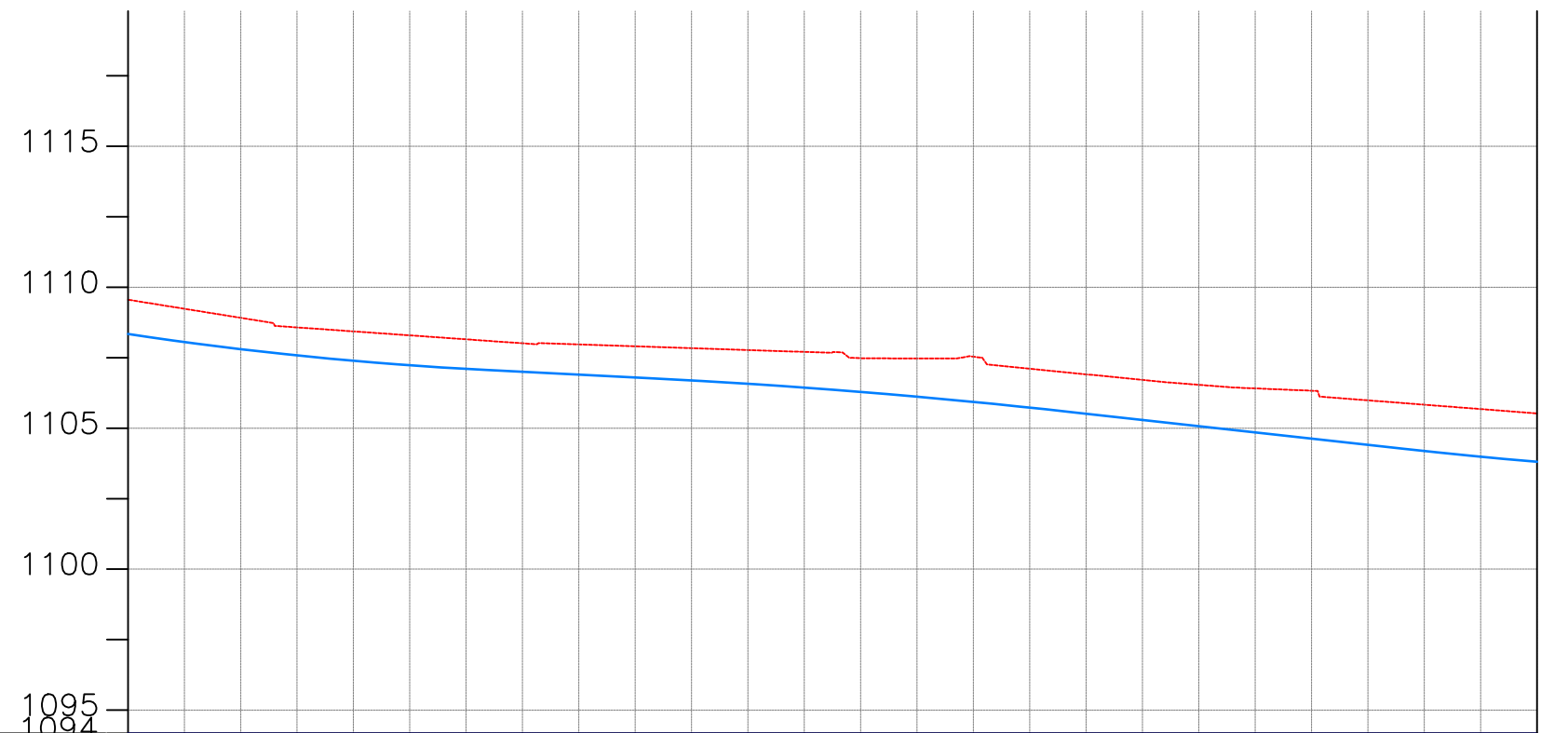
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 8+000.00 - 8+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 8+000.00 - 8+500.00)
Sheet No.: 17	Format: A3



PLAN LAYOUT



CHAINAGE	8+500	8+520	8+560	8+600	8+640	8+680	8+720	8+760	8+800	8+840	8+880	8+920	8+960	9+000														
GROUND LEVEL(m)	1109.557	1109.235	1108.914	1108.574	1108.433	1108.292	1108.152	1108.011	1107.971	1107.904	1107.838	1107.772	1107.706	1107.482	1107.474	1107.537	1107.108	1106.911	1106.840	1106.713	1106.538	1106.411	1106.329	1105.987	1105.833	1105.678	1105.524	9+000
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1108.34	1108.06	1107.80	1107.58	1107.39	1107.23	1107.10	1107.00	1106.90	1106.80	1106.69	1106.57	1106.44	1106.28	1106.12	1105.93	1105.73	1105.51	1105.29	1105.07	1104.85	1104.63	1104.41	1104.19	1103.99	1103.81	1103.81	9+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

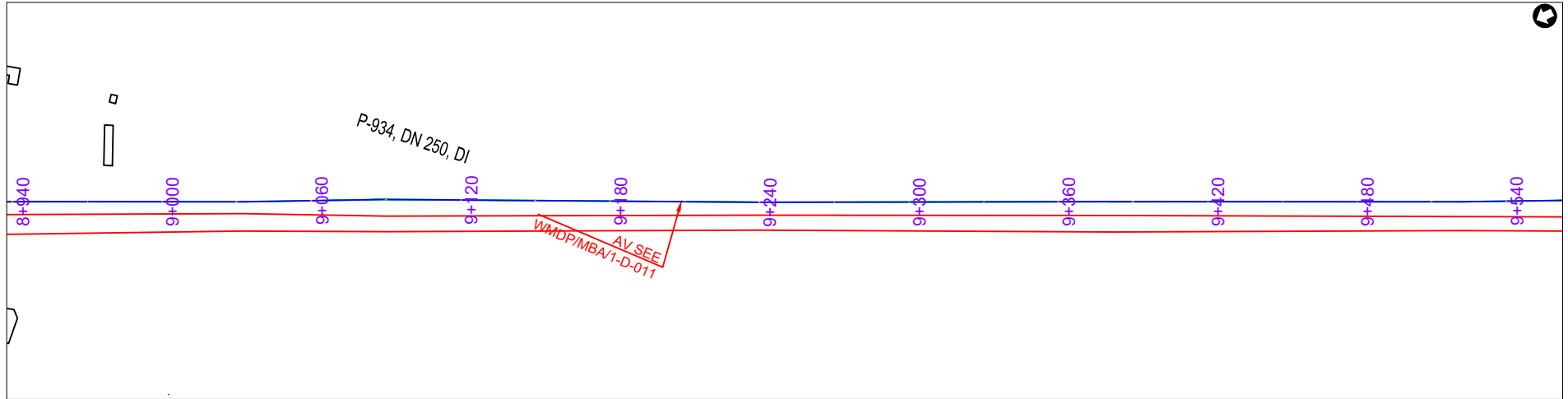
MINISTRY OF WATER AND ENVIRONMENT

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

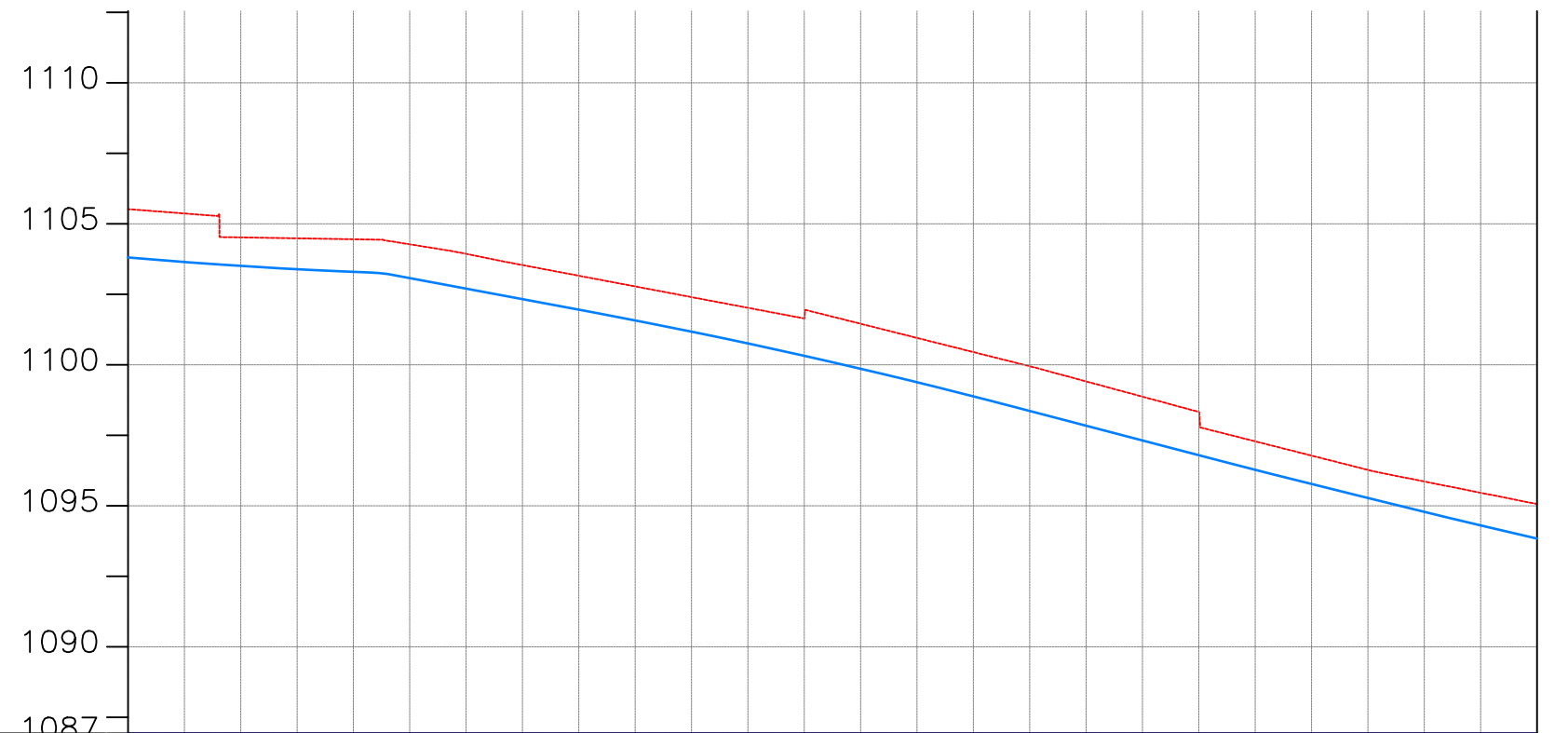
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 8+500.00 - 9+000.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Sheet No.: 18
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 8+500.00 - 9+000.00)	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
9+000	1105.524	DN 250 DI PIPE PN16	1103.81
	1105.369		1103.65
9+040	1104.520		1103.51
	1104.487		1103.39
9+080	1104.454		1103.30
	1104.274		1103.08
9+120	1103.935		1102.70
	1103.539		1102.33
9+160	1103.160		1101.96
	1102.781		1101.58
9+200	1102.402		1101.18
	1102.023		1100.76
9+240	1101.644		1100.32
	1101.457		1099.86
9+280	1100.955		1099.38
	1100.453		1098.88
9+320	1099.951		1098.37
	1099.412		1097.84
9+360	1098.871		1097.32
	1098.330		1096.80
9+400	1097.288	1096.28	
	1096.781	1095.77	
9+440	1096.275	1095.28	
	1095.863	1094.79	
9+480	1095.464	1094.31	
9+500	1095.064	1093.84	

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

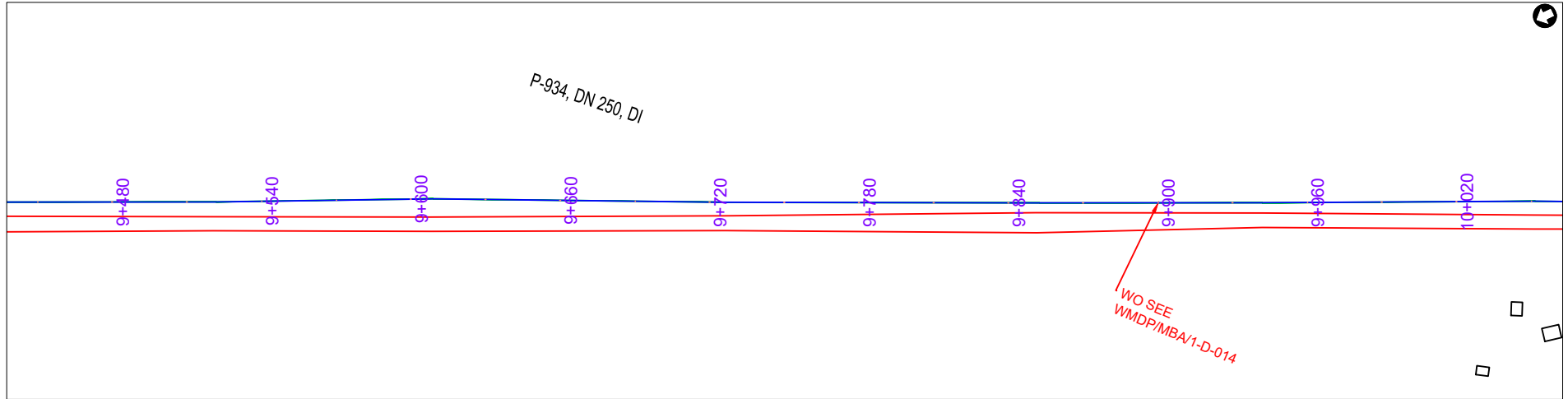
MINISTRY OF WATER AND ENVIRONMENT

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

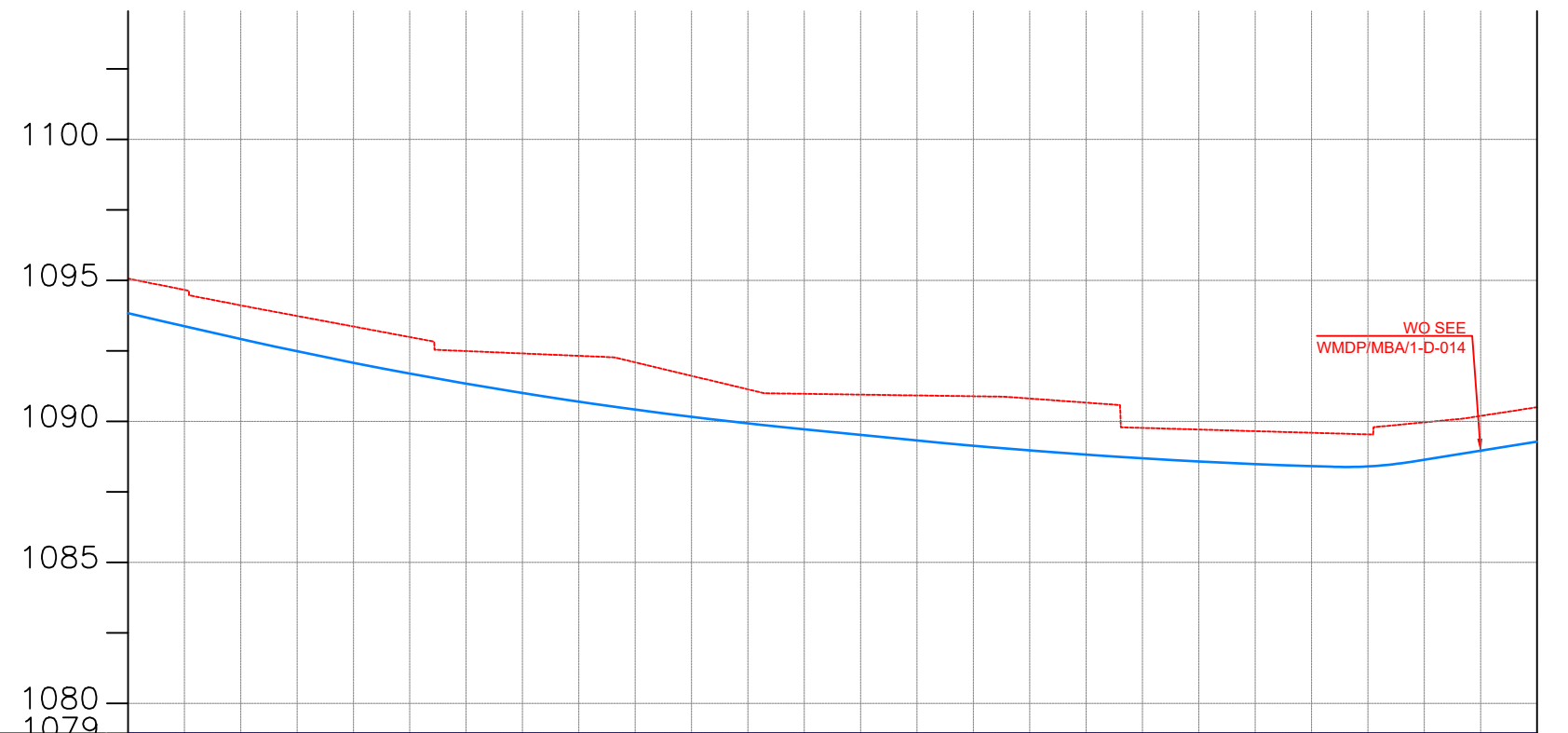
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 9+000.00 - 9+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 9+000.00 - 9+500.00)	Sheet No.: 19
Format: A3	



PLAN LAYOUT



CHAINAGE	9+500	9+520	9+560	9+600	9+640	9+680	9+720	9+760	9+800	9+840	9+880	9+920	9+960	10+000											
GROUND LEVEL(m)	1095.064	1094.665	1094.115	1093.739	1093.364	1092.990	1092.493	1092.409	1092.324	1092.093	1091.615	1091.137	1090.978	1090.949	1090.920	1090.891	1090.810	1090.665	1089.768	1089.711	1089.653	1089.596	1089.538	1089.965	1090.194
PIPE DETAILS	DN 250 DI PIPE PN16																								
PIPE INVERT(m)	1093.84	1093.38	1092.92	1092.49	1092.08	1091.69	1091.34	1091.00	1090.70	1090.42	1090.16	1089.93	1089.72	1089.52	1089.32	1089.14	1088.97	1088.82	1088.69	1088.58	1088.49	1088.41	1088.40	1088.64	1088.96

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

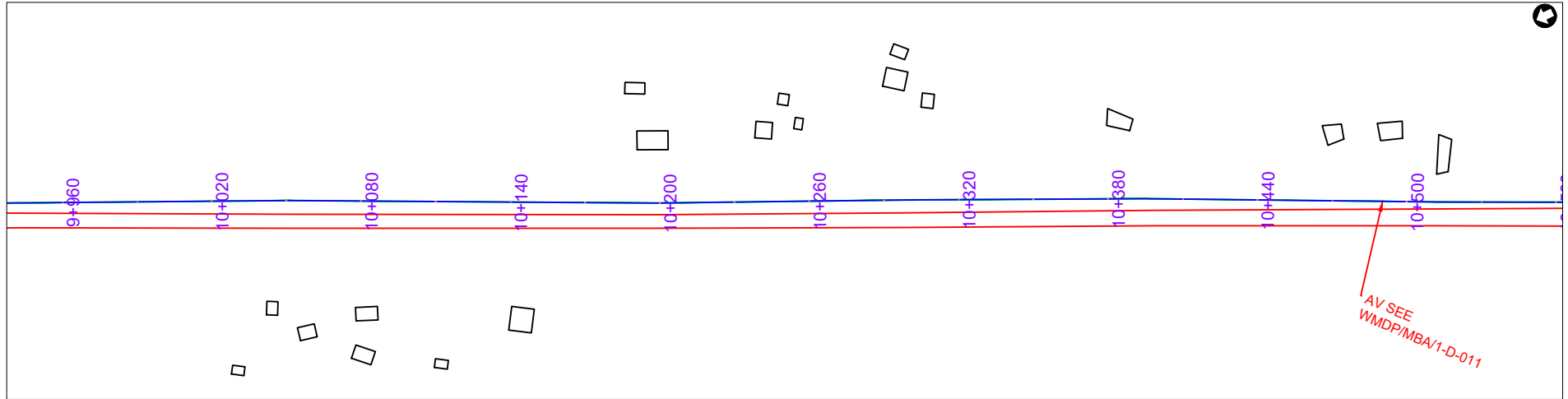
MINISTRY OF WATER AND ENVIRONMENT

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

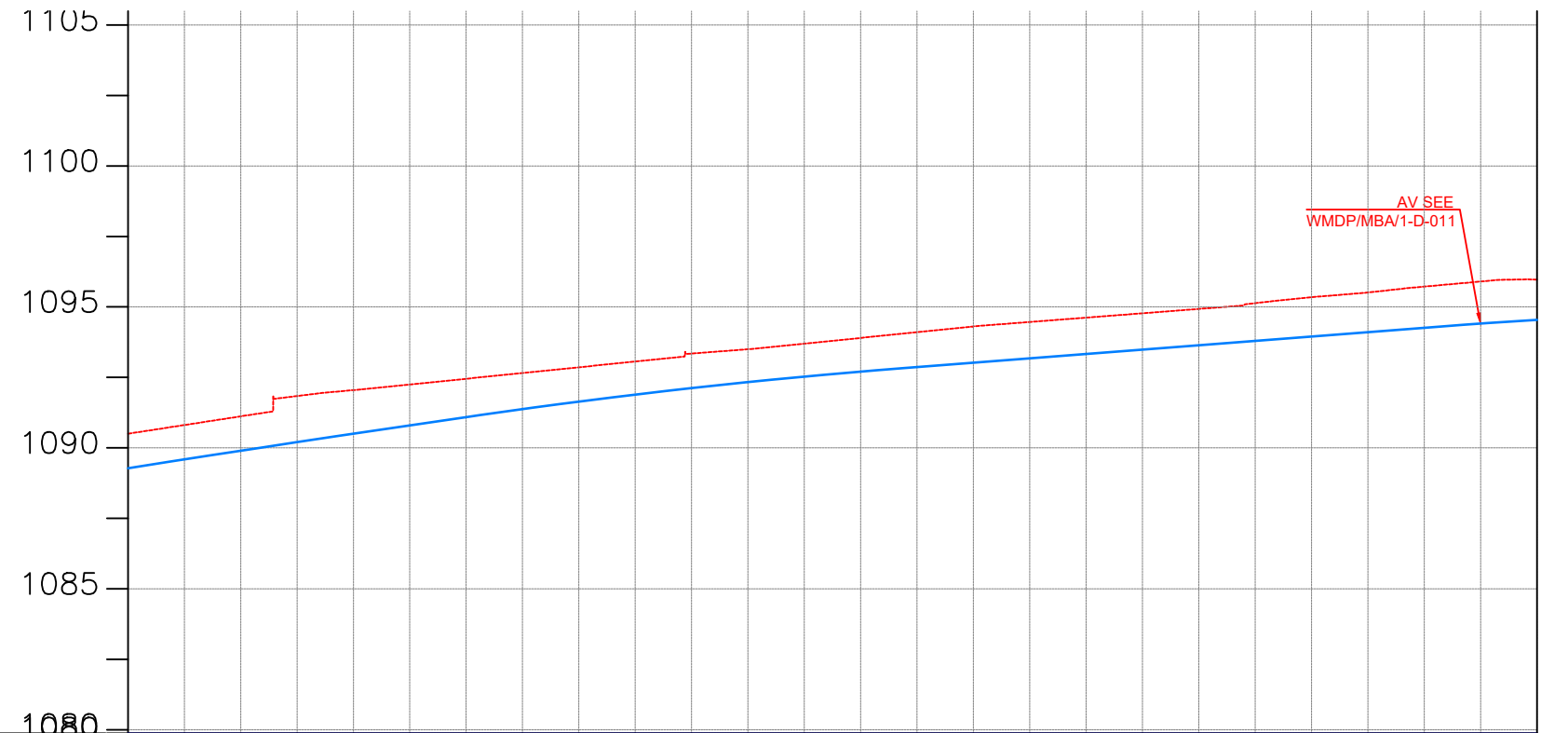
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 9+500.00 - 10+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 9+500.00 - 10+000.00)	Sheet No.: 20
Format: A3	



PLAN LAYOUT



CHAINAGE	10+000		10+040		10+080		10+120		10+160		10+200		10+240		10+280		10+320		10+360		10+400		10+440		10+480	10+500		
GROUND LEVEL(m)	1090.502	1090.810	1091.119	1091.839	1092.049	1092.247	1092.451	1092.655	1092.859	1093.063	1093.345	1093.499	1093.696	1093.900	1094.104	1094.311	1094.465	1094.619	1094.774	1094.928	1095.134	1095.343	1095.511	1095.720	1095.900	1095.966		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1089.28	1089.59	1089.90	1090.20	1090.50	1090.80	1091.09	1091.37	1091.64	1091.89	1092.12	1092.33	1092.53	1092.71	1092.87	1093.02	1093.18	1093.33	1093.49	1093.64	1093.80	1093.95	1094.11	1094.26	1094.41	1094.54		

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

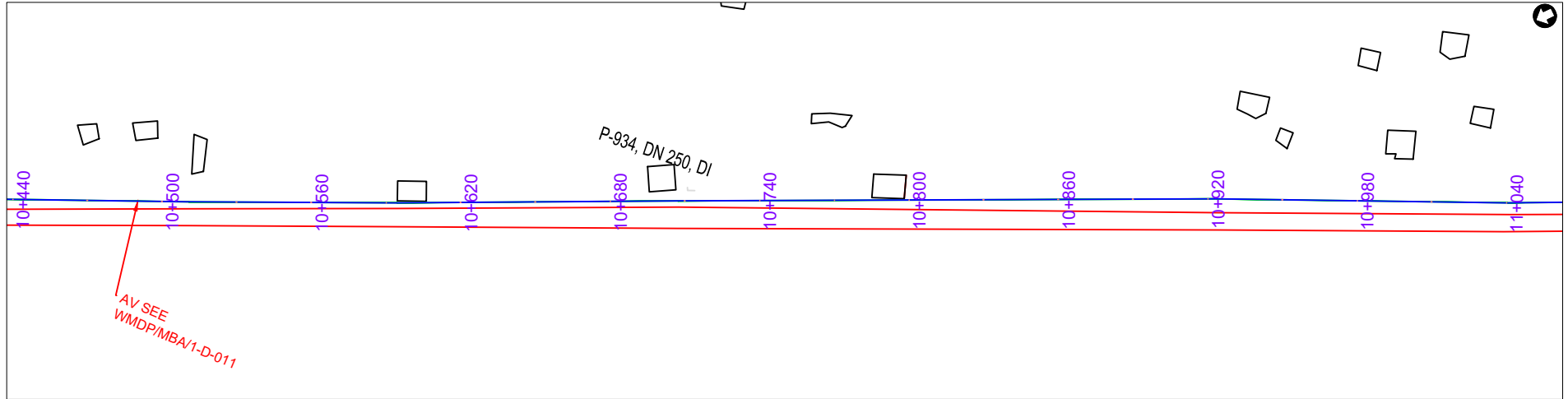
MINISTRY OF WATER AND ENVIRONMENT

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

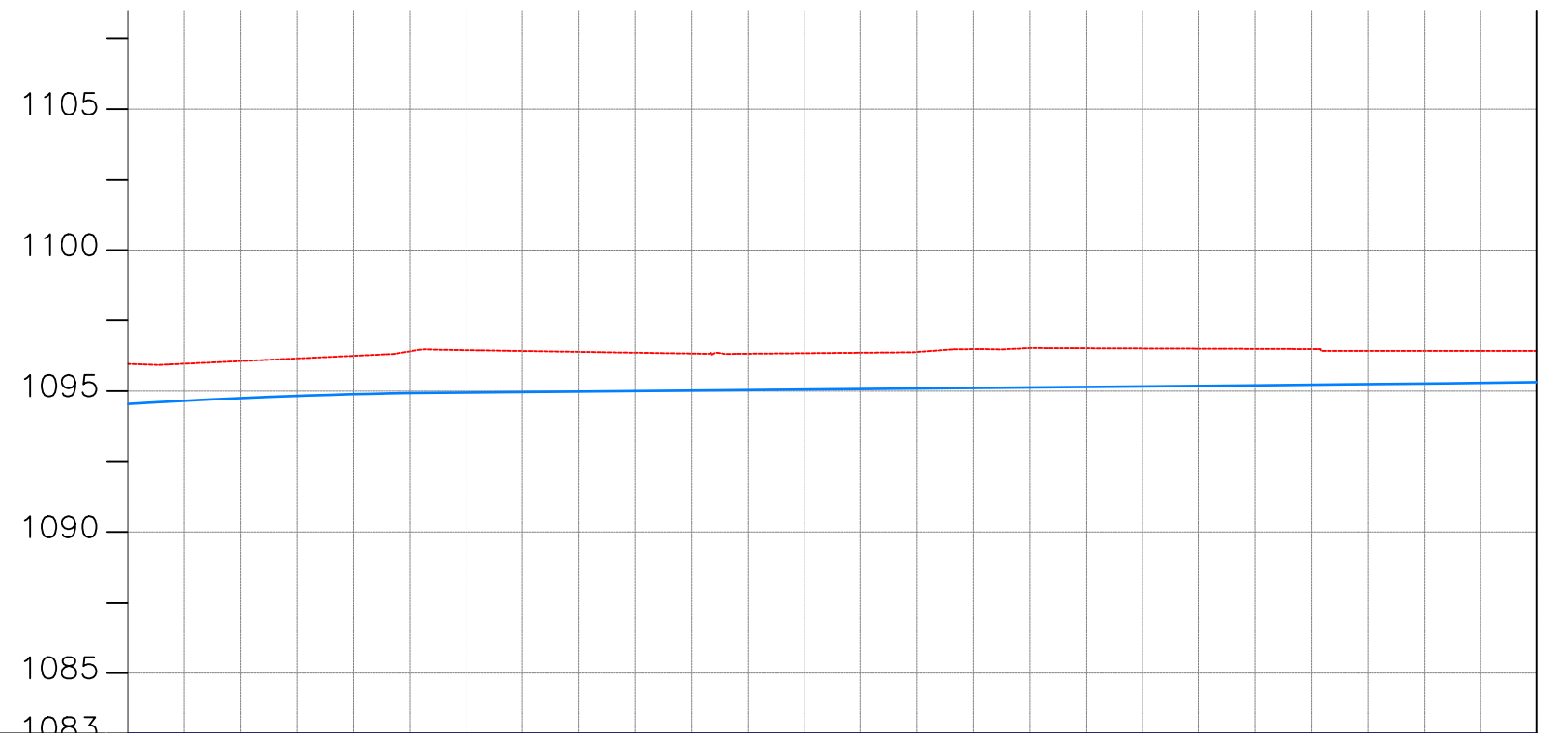
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 10+000.00 - 10+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 10+000.00 - 10+500.00)	
Sheet No.: 21	Format: A3



PLAN LAYOUT



CHAINAGE	10+500	10+520		10+560		10+600		10+640		10+680		10+720		10+760		10+800		10+840		10+880		10+920		10+960		11+000		
GROUND LEVEL(m)	1095.966	1095.973	1096.065	1096.156	1096.247	1096.404	1096.446	1096.416	1096.386	1096.356	1096.326	1096.321	1096.338	1096.355	1096.382	1096.480	1096.517	1096.511	1096.504	1096.497	1096.490	1096.483	1096.421	1096.421	1096.421	1096.420		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1094.54	1094.66	1094.75	1094.83	1094.89	1094.93	1094.95	1094.97	1094.99	1095.00	1095.02	1095.04	1095.06	1095.08	1095.09	1095.11	1095.13	1095.15	1095.16	1095.18	1095.20	1095.22	1095.24	1095.27	1095.29	1095.31		

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

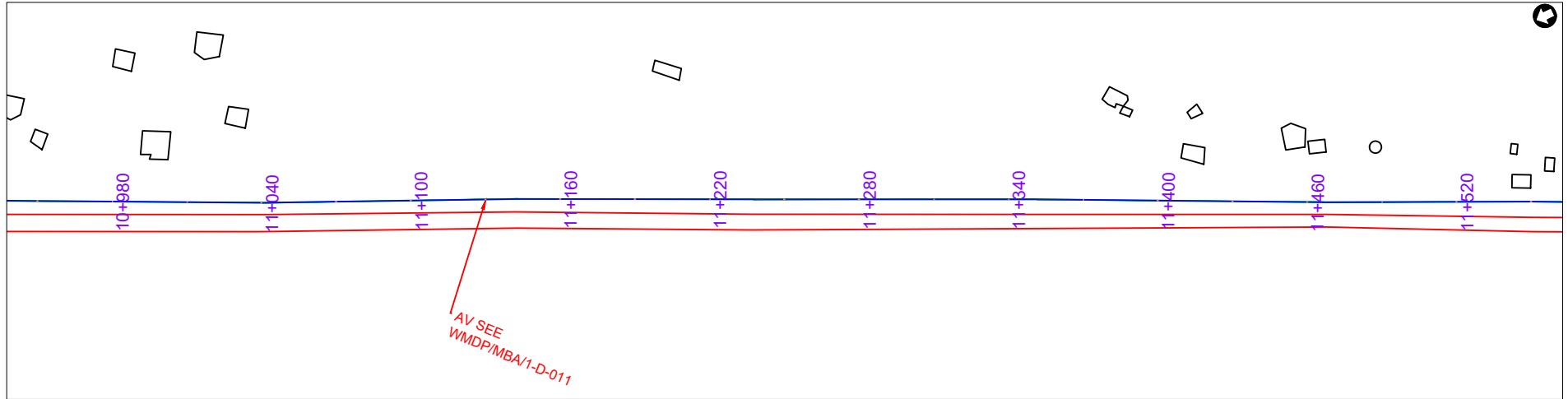
MINISTRY OF WATER AND ENVIRONMENT

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

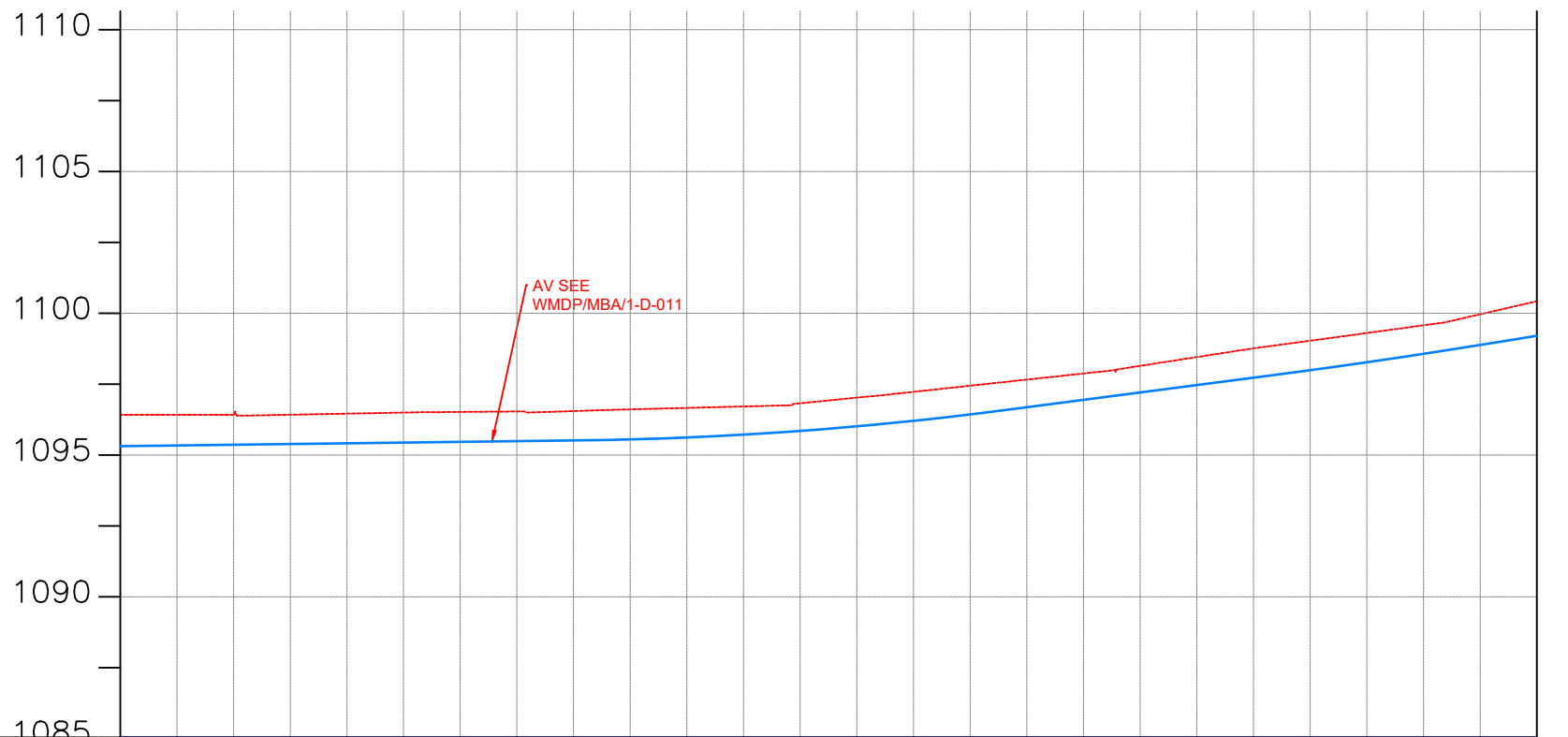
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 10+500.00 - 11+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 10+500.00 - 11+000.00)
Sheet No.: 22	Format: A3



PLAN LAYOUT



CHAINAGE	11+000		11+040		11+080		11+120		11+160		11+200		11+240		11+280		11+320		11+360		11+400		11+440		11+480	11+500		
GROUND LEVEL(m)	1096.420	1096.420	1096.420	1096.423	1096.461	1096.499	1096.522	1096.538	1096.550	1096.611	1096.663	1096.714	1096.823	1097.024	1097.230	1097.446	1097.662	1097.878	1098.147	1098.457	1098.762	1099.034	1099.305	1099.577	1099.966	1100.425		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1095.31	1095.34	1095.36	1095.39	1095.41	1095.44	1095.46	1095.49	1095.51	1095.55	1095.62	1095.72	1095.85	1096.01	1096.21	1096.43	1096.69	1096.95	1097.21	1097.47	1097.73	1098.00	1098.28	1098.57	1098.88	1099.21		

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

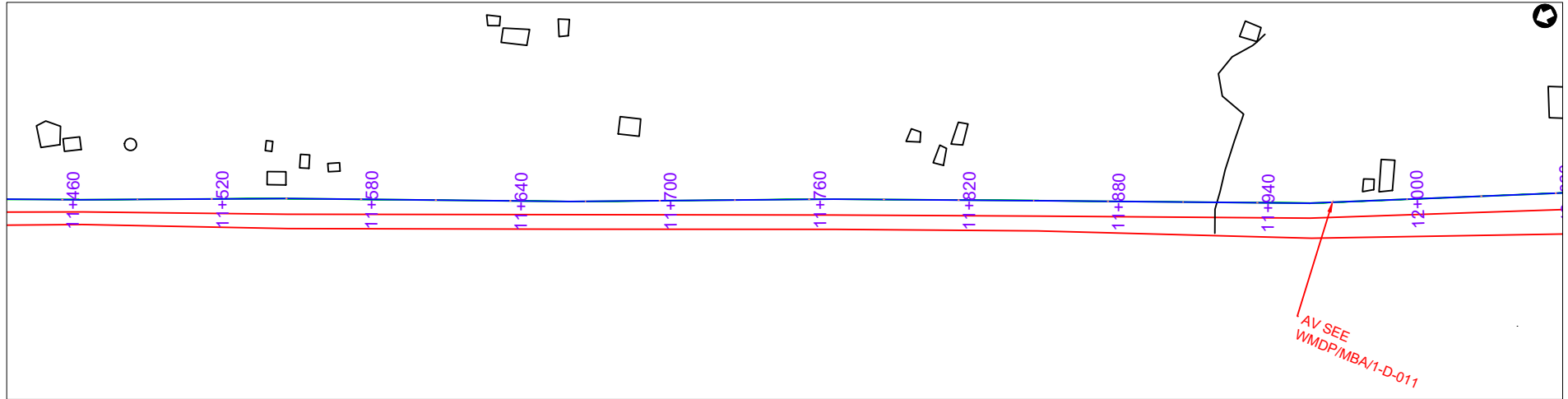
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

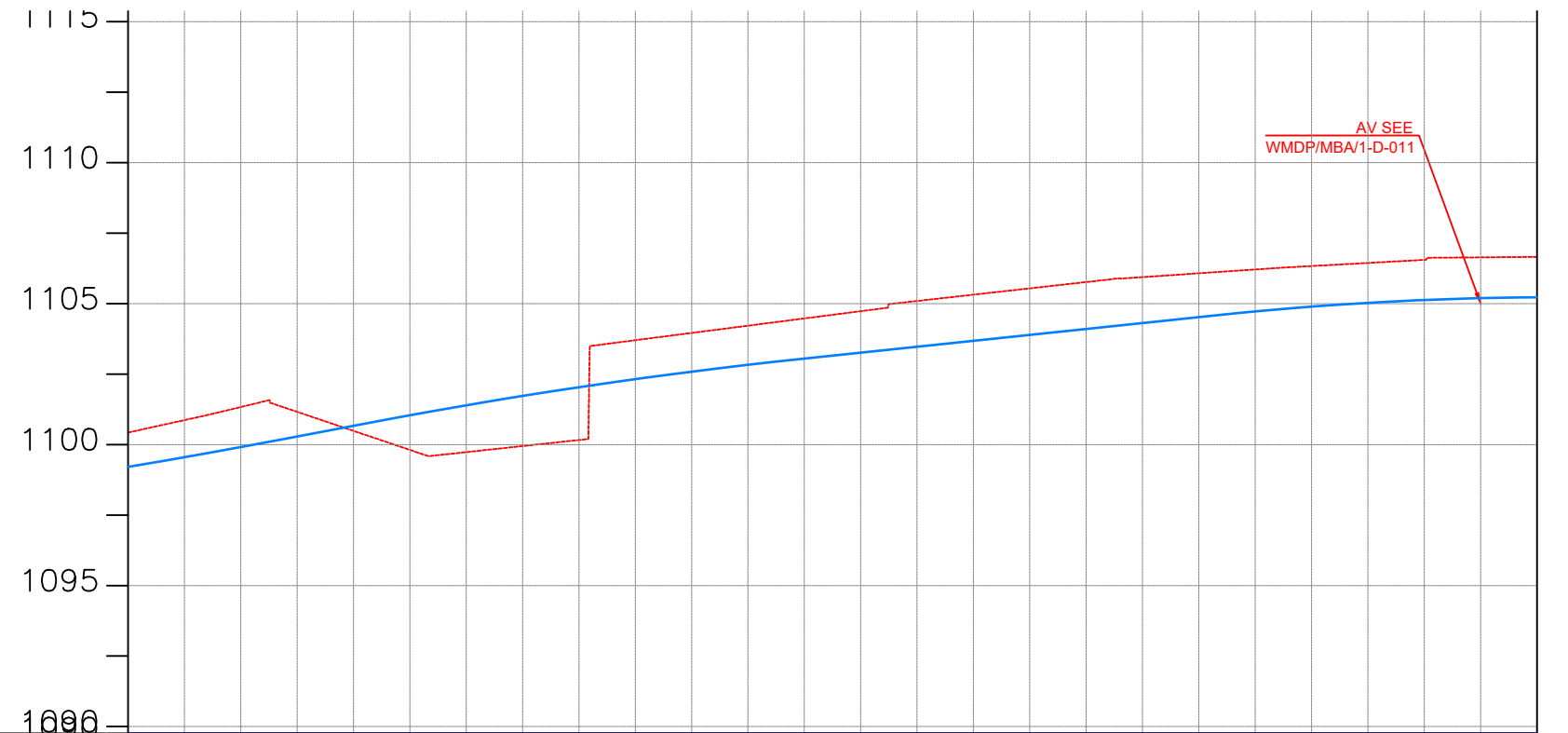
Drawing Title:
TRANSMISSION LINES

TL TO BUSOLWE (CH 11+000.00 - 11+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 11+000.00 - 11+500.00)	Sheet No.: 23
Format: A3	



PLAN LAYOUT



CHAINAGE	11+500	11+520	11+560	11+600	11+640	11+680	11+720	11+760	11+800	11+840	11+880	11+920	11+960	12+000												
GROUND LEVEL(m)	1100.425	1100.867	1101.333	1101.161	1100.487	1099.812	1100.162	1103.701	1103.959	1104.216	1104.474	1104.731	1105.093	1105.317	1105.540	1105.764	1105.939	1106.074	1106.210	1106.332	1106.441	1106.551	1106.640	1106.656		
PIPE DETAILS	DN 250 DI PIPE PN16																									
PIPE INVERT(m)	1099.21	1099.55	1099.91	1100.28	1100.66	1101.04	1101.39	1101.72	1102.03	1102.32	1102.59	1102.83	1103.05	1103.26	1103.47	1103.68	1103.89	1104.10	1104.31	1104.52	1104.72	1104.89	1105.03	1105.13	1105.19	1105.23

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

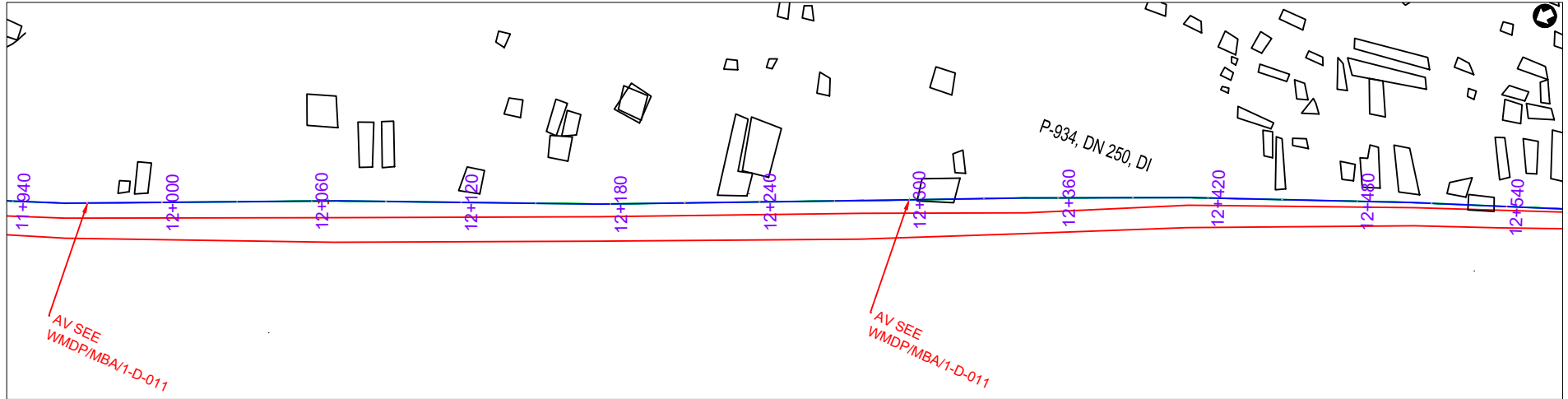
MINISTRY OF WATER AND ENVIRONMENT

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

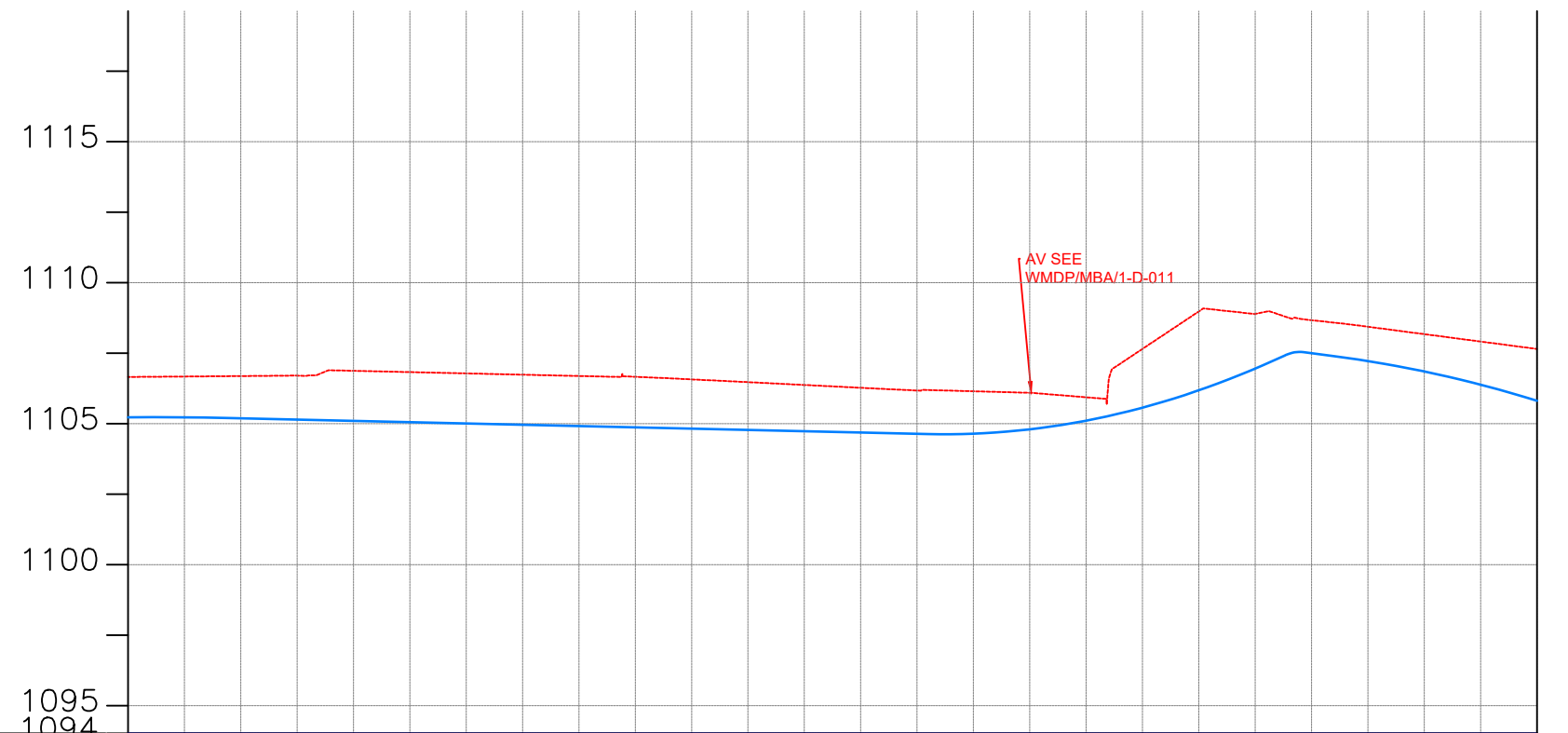
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 11+500.00 - 12+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 11+500.00 - 12+000.00)	
Sheet No.: 24	Format: A3



PLAN LAYOUT



CHAINAGE	12+000		12+040		12+080		12+120		12+160		12+200		12+240		12+280		12+320		12+360		12+400		12+440		12+480	12+500		
GROUND LEVEL(m)	1106.656	1106.671	1106.687	1106.702	1106.875	1106.828	1106.782	1106.736	1106.690	1106.662	1106.570	1106.472	1106.372	1106.273	1106.174	1106.149	1106.095	1105.935	1107.651	1108.982	1108.894	1108.670	1108.437	1108.174	1107.912	1107.649		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1105.23	1105.22	1105.19	1105.14	1105.10	1105.05	1105.01	1104.96	1104.92	1104.87	1104.82	1104.78	1104.73	1104.69	1104.64	1104.65	1104.80	1105.11	1105.57	1106.18	1106.95	1107.50	1107.22	1106.85	1106.38	1105.81		

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

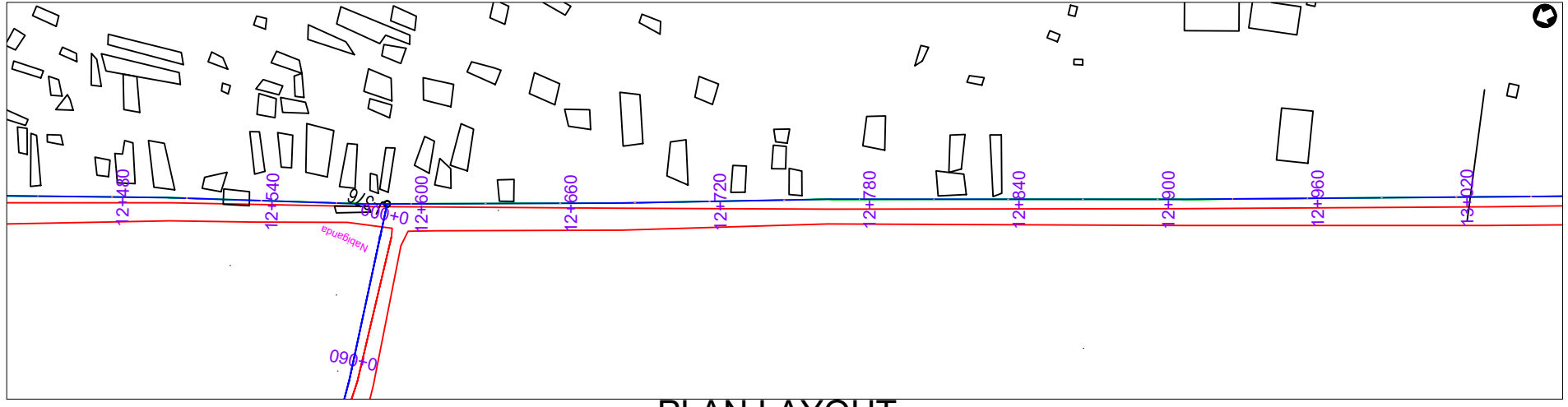
MINISTRY OF WATER AND ENVIRONMENT

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

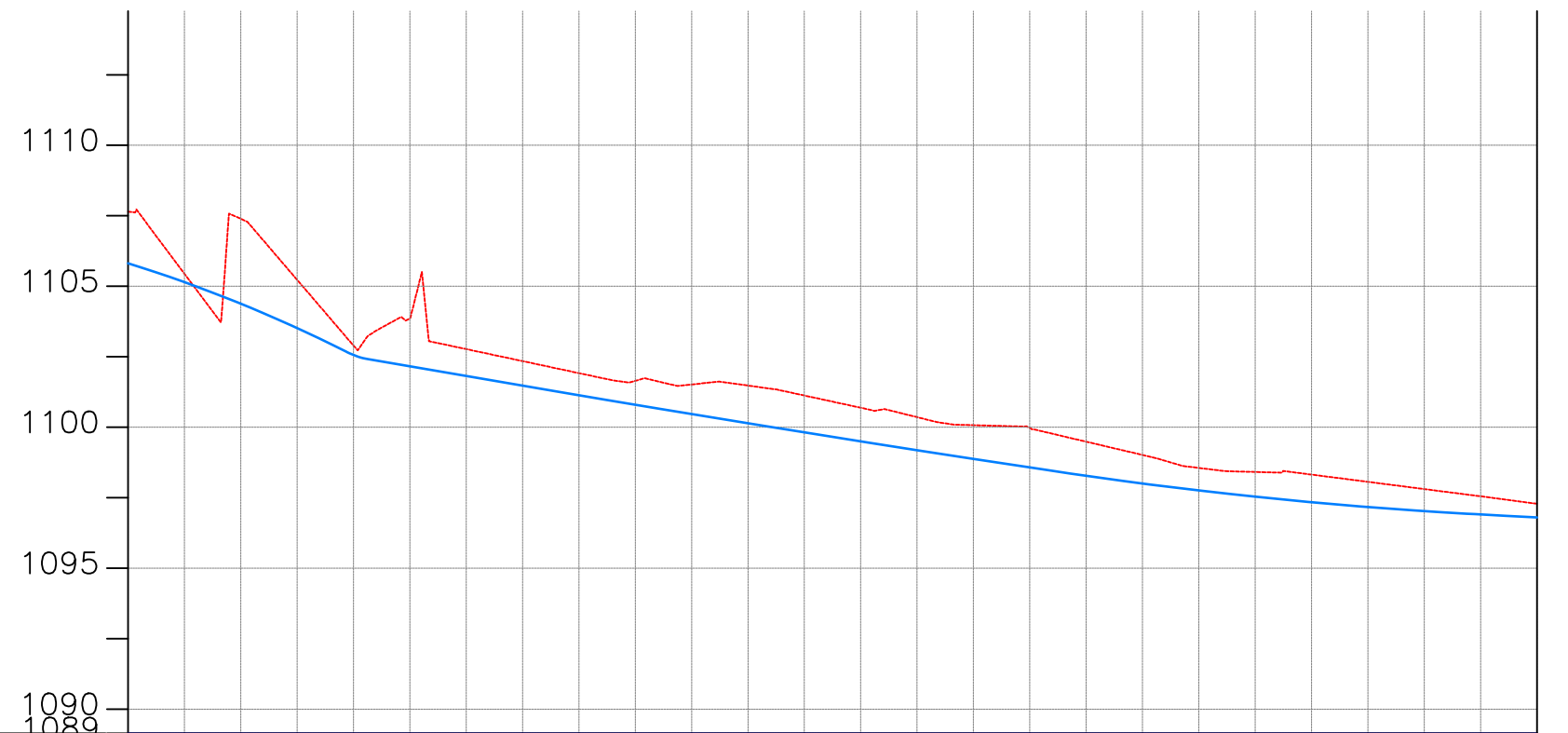
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 12+000.00 - 12+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 12+000.00 - 12+500.00)	Sheet No.: 25
Format: A3	



PLAN LAYOUT



CHAINAGE	12+500	12+520	12+560	12+600	12+640	12+680	12+720	12+760	12+800	12+840	12+880	12+920	12+960	13+000												
GROUND LEVEL(m)	1107.649	1105.444	1107.393	1105.228	1102.898	1103.859	1102.772	1102.345	1101.919	1101.644	1101.517	1101.478	1101.125	1100.692	1100.358	1100.073	1099.978	1099.488	1099.017	1098.557	1098.414	1098.320	1098.064	1097.807	1097.551	1097.286
PIPE DETAILS	DN 250 DI PIPE PN16																									
PIPE INVERT(m)	1105.81	1105.15	1104.38	1103.52	1102.56	1102.16	1101.82	1101.48	1101.14	1100.80	1100.47	1100.14	1099.82	1099.50	1099.19	1098.88	1098.58	1098.28	1098.01	1097.76	1097.54	1097.34	1097.17	1097.03	1096.91	1096.80

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

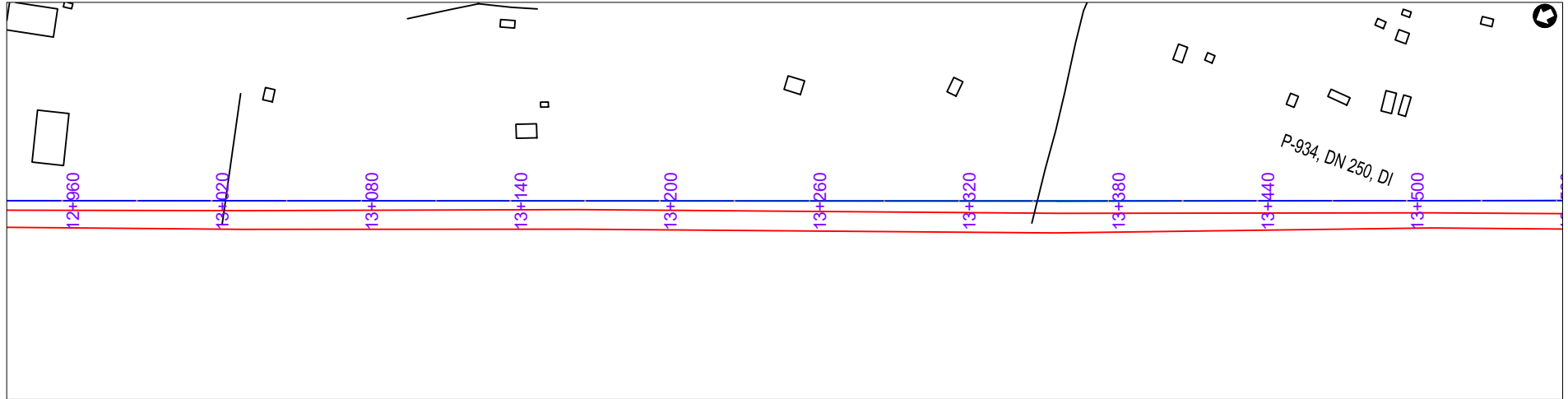
MINISTRY OF WATER AND ENVIRONMENT

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

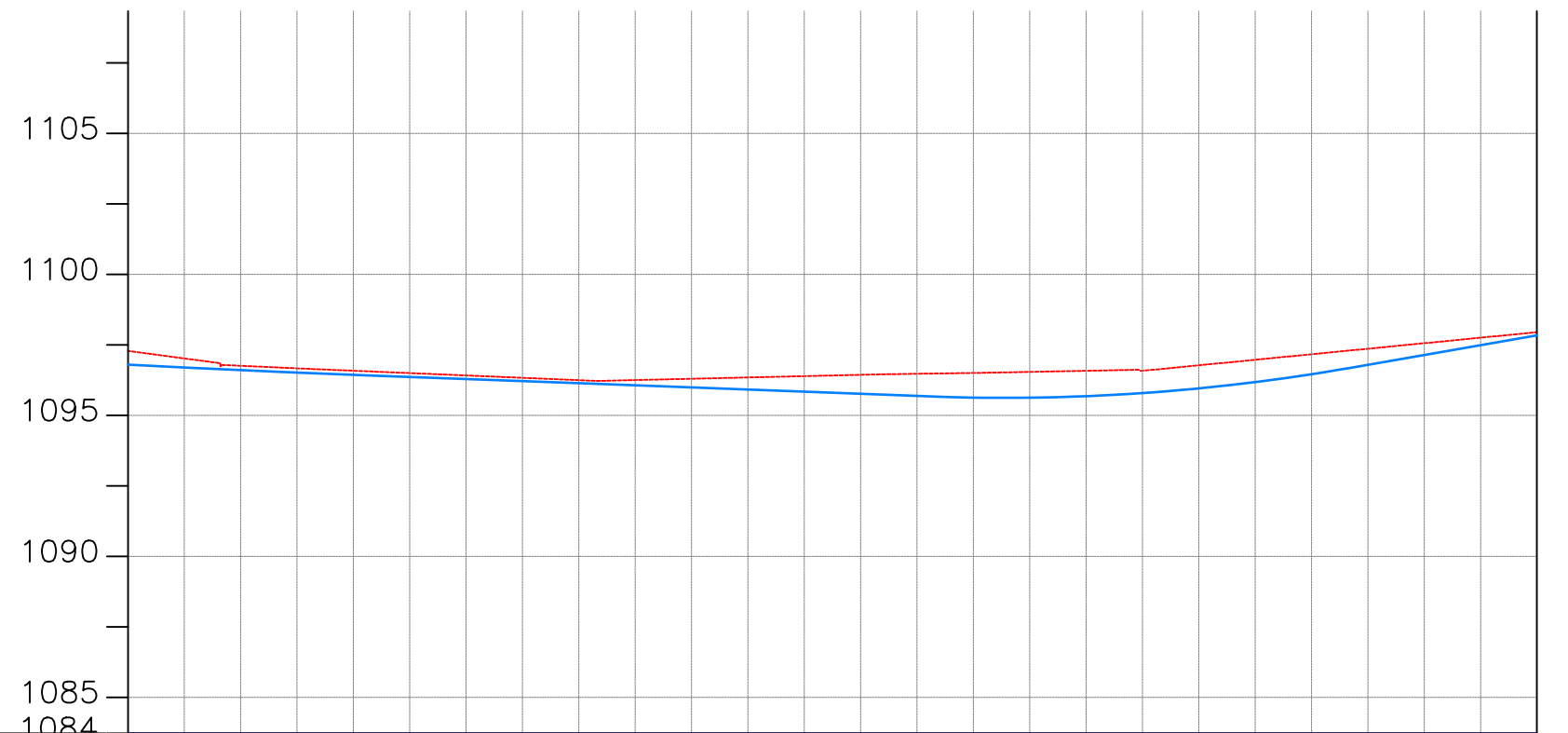
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 12+500.00 - 13+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 12+500.00 - 13+000.00)	
Sheet No.: 26	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
1096.80	1097.286	DN 250 DI PIPE PN16	1096.80
1096.70	1097.019		1096.70
1096.60	1096.757		1096.60
1096.52	1096.667		1096.52
1096.44	1096.582		1096.44
1096.36	1096.498		1096.36
1096.29	1096.415		1096.29
1096.21	1096.331		1096.21
1096.14	1096.248		1096.14
1096.07	1096.251		1096.07
1095.99	1096.298		1095.99
1095.92	1096.344		1095.92
1095.84	1096.390		1095.84
1095.76	1096.437		1095.76
1095.69	1096.474		1095.69
1095.63	1096.503		1095.63
1095.63	1096.541	1095.63	
1095.68	1096.580	1095.68	
1095.79	1096.579	1095.79	
1095.96	1096.775	1095.96	
1096.18	1096.971	1096.18	
1096.46	1097.167	1096.46	
1096.79	1097.362	1096.79	
1097.14	1097.558	1097.14	
1097.49	1097.754	1097.49	
1097.84	1097.950	1097.84	

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

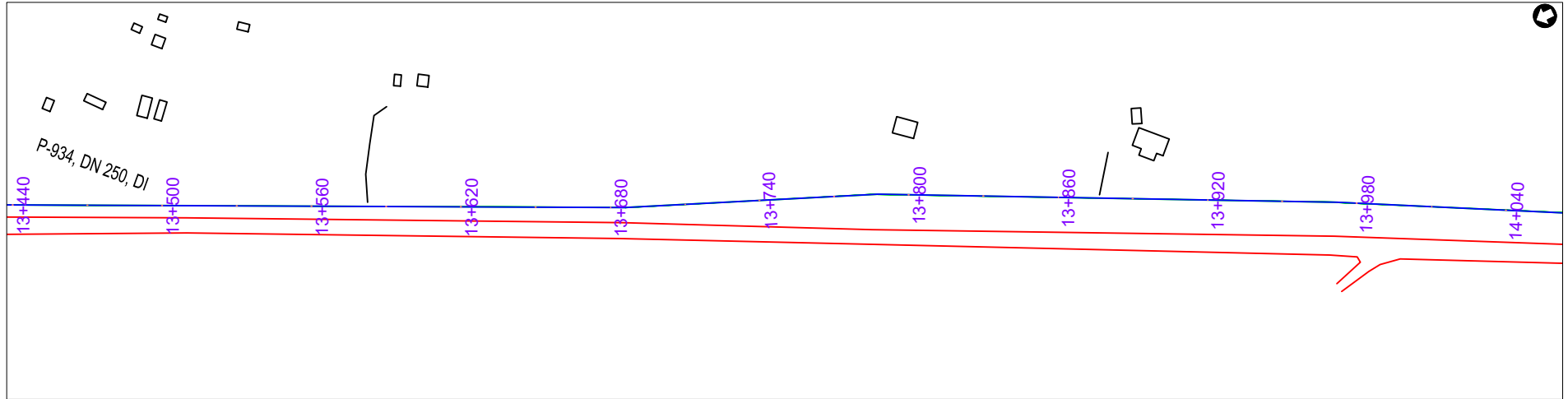
MINISTRY OF WATER AND ENVIRONMENT

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

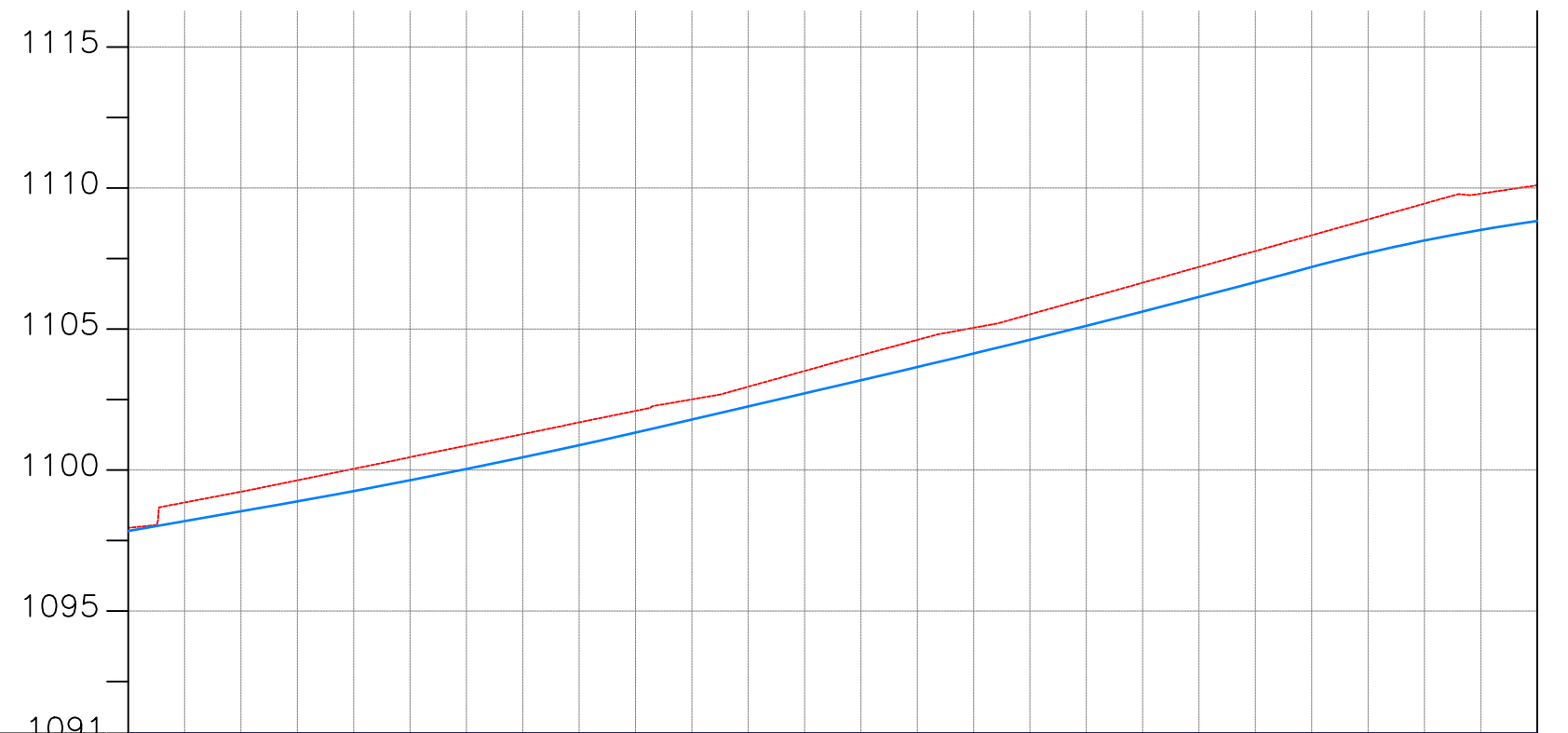
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 13+000.00 - 13+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 13+000.00 - 13+500.00)
Sheet No.: 27	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
1097.84	1097.950	DN 250 DI PIPE PN16	1097.84
1098.19	1098.849		1098.19
1098.53	1099.230		1098.53
1098.89	1099.633		1098.89
1099.26	1100.044		1099.26
1099.64	1100.455		1099.64
1100.04	1100.865		1100.04
1100.45	1101.276		1100.45
1100.88	1101.687		1100.88
1101.33	1102.097		1101.33
1101.79	1102.505		1101.79
1102.25	1102.954		1102.25
1102.72	1103.512		1102.72
1103.18	1104.071		1103.18
1103.65	1104.614		1103.65
1104.13	1105.044		1104.13
1104.62	1105.521	1104.62	
1105.11	1106.082	1105.11	
1105.62	1106.643	1105.62	
1106.14	1107.204	1106.14	
1106.66	1107.765	1106.66	
1107.20	1108.326	1107.20	
1107.70	1108.888	1107.70	
1108.14	1109.449	1108.14	
1108.52	1109.802	1108.52	
1108.83	1110.098	1108.83	

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

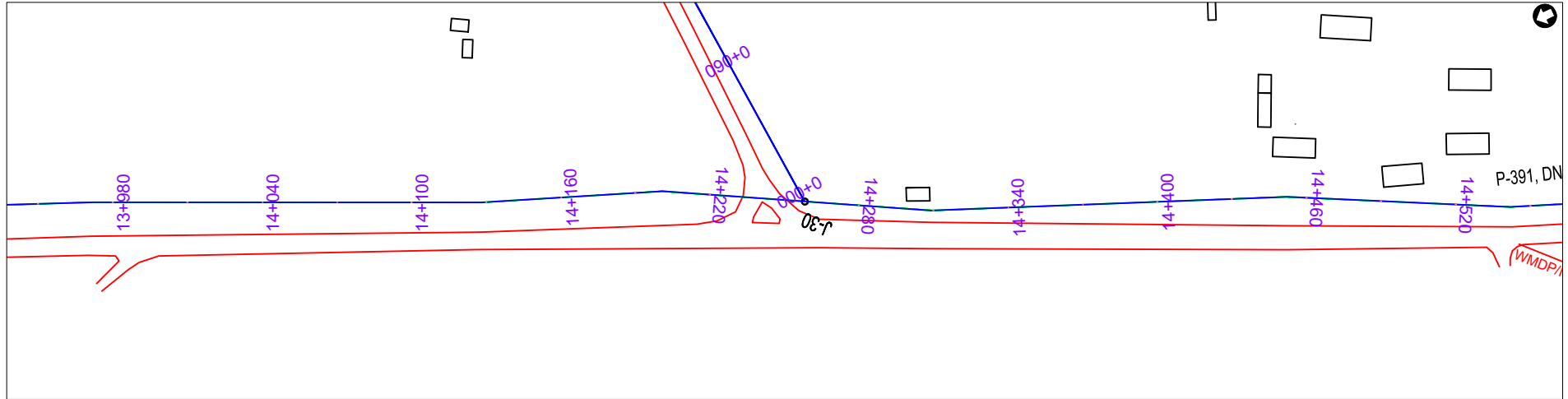
MINISTRY OF WATER AND ENVIRONMENT

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

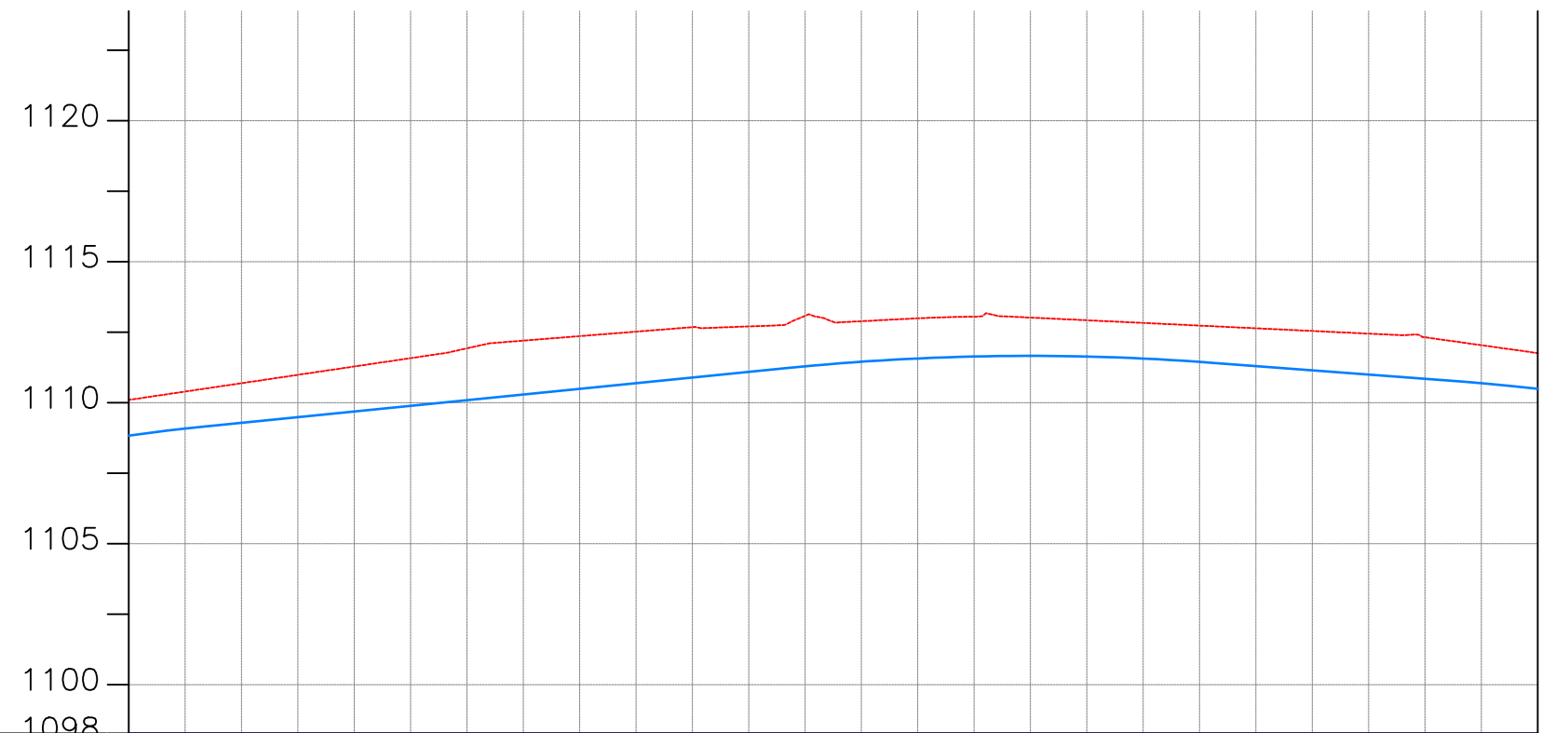
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 13+500.00 - 14+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 13+500.00 - 14+000.00)
Sheet No.: 28	Format: A3



PLAN LAYOUT



CHAINAGE	14+000		14+040		14+080		14+120		14+160		14+200		14+240		14+280		14+320		14+360		14+400		14+440		14+480	14+500		
GROUND LEVEL(m)	1110.098	1110.394	1110.690	1110.987	1111.283	1111.579	1111.927	1112.201	1112.359	1112.518	1112.677	1112.703	1113.080	1112.889	1112.992	1113.048	1113.018	1112.923	1112.828	1112.733	1112.638	1112.543	1112.448	1112.319	1112.038	1111.758		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1108.83	1109.08	1109.28	1109.49	1109.69	1109.89	1110.09	1110.29	1110.49	1110.69	1110.89	1111.09	1111.29	1111.45	1111.57	1111.64	1111.66	1111.64	1111.56	1111.45	1111.30	1111.15	1111.00	1110.85	1110.69	1110.49		

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

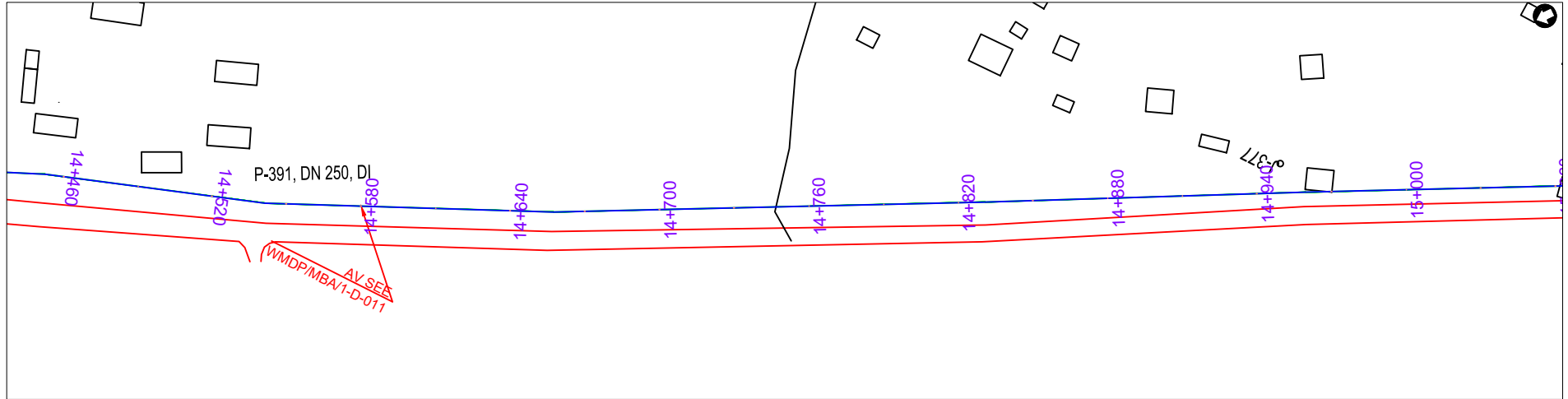
MINISTRY OF WATER AND ENVIRONMENT

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

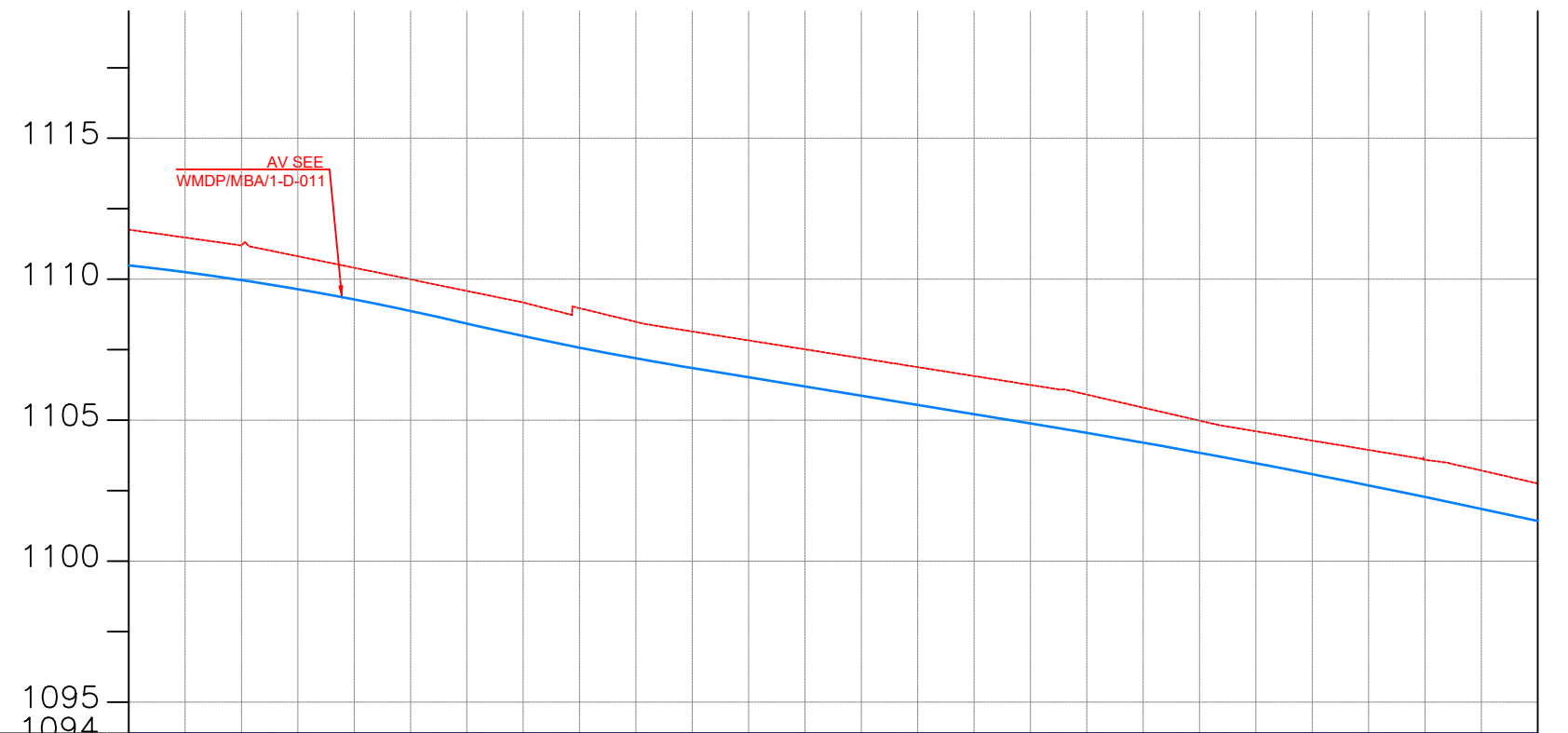
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 14+000.00 - 14+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 14+000.00 - 14+500.00)	
Sheet No.: 29	Format: A3



PLAN LAYOUT



CHAINAGE	14+500	14+520	14+560	14+600	14+640	14+680	14+720	14+760	14+800	14+840	14+880	14+920	14+960	15+000														
GROUND LEVEL(m)	1111.758	1111.478	1111.198	1110.816	1110.406	1109.995	1109.585	1109.175	1108.971	1108.490	1108.146	1107.830	1107.514	1107.198	1106.882	1106.566	1106.250	1105.909	1105.446	1104.984	1104.608	1104.277	1103.945	1103.593	1103.216	1102.756		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1110.49	1110.25	1109.97	1109.65	1109.28	1108.87	1108.43	1107.98	1107.57	1107.20	1106.85	1106.52	1106.19	1105.87	1105.54	1105.21	1104.88	1104.55	1104.20	1103.84	1103.47	1103.09	1102.69	1102.28	1101.85	1101.43		

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

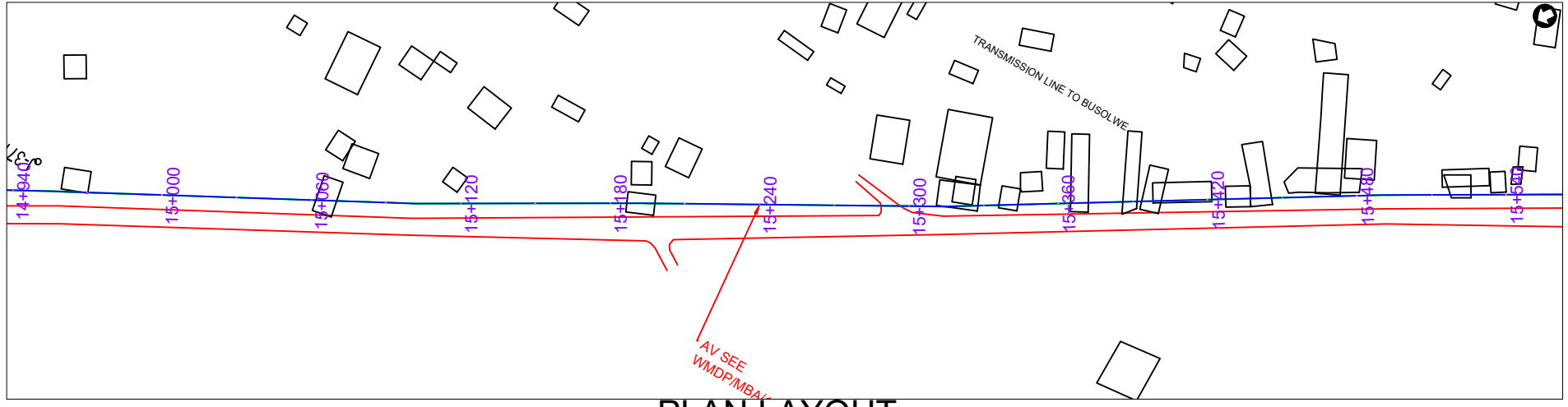
MINISTRY OF WATER AND ENVIRONMENT

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

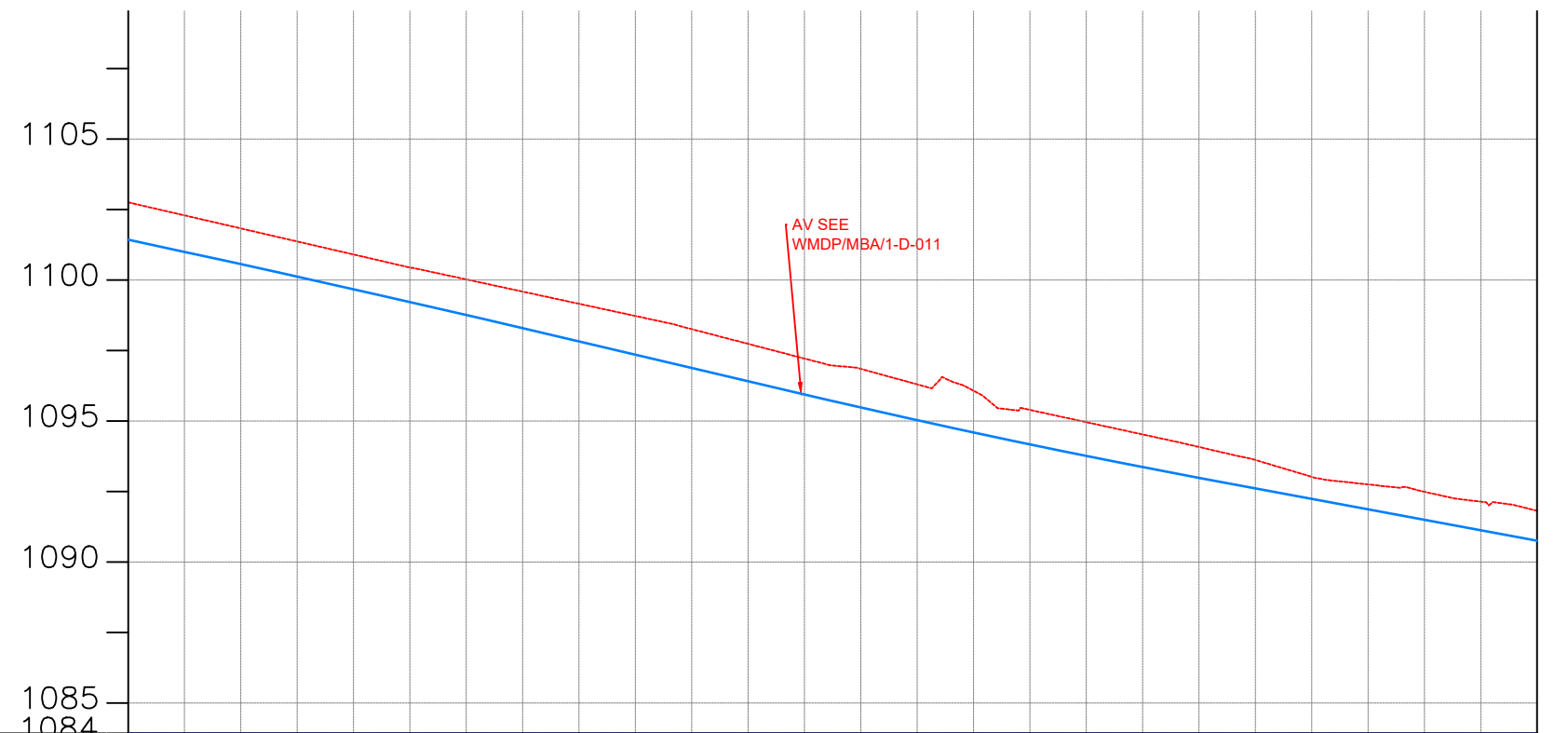
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 14+500.00 - 15+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 14+500.00 - 15+000.00)	
Sheet No.: 30	Format: A3



PLAN LAYOUT



CHAINAGE	15+000		15+040		15+080		15+120		15+160		15+200		15+240		15+280		15+320		15+360		15+400		15+440		15+480			
GROUND LEVEL(m)	1102.756	1102.293	1101.831	1101.368	1100.906	1100.443	1100.022	1099.590	1099.158	1098.726	1098.259	1097.737	1097.215	1096.850	1096.301	1096.075	1095.395	1094.960	1094.524	1094.080	1093.618	1093.022	1092.752	1092.490	1092.140			
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1101.43	1101.00	1100.56	1100.12	1099.67	1099.22	1098.76	1098.29	1097.82	1097.35	1096.88	1096.41	1095.94	1095.48	1095.03	1094.60	1094.17	1093.76	1093.37	1092.98	1092.61	1092.24	1091.87	1091.50	1091.13			

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

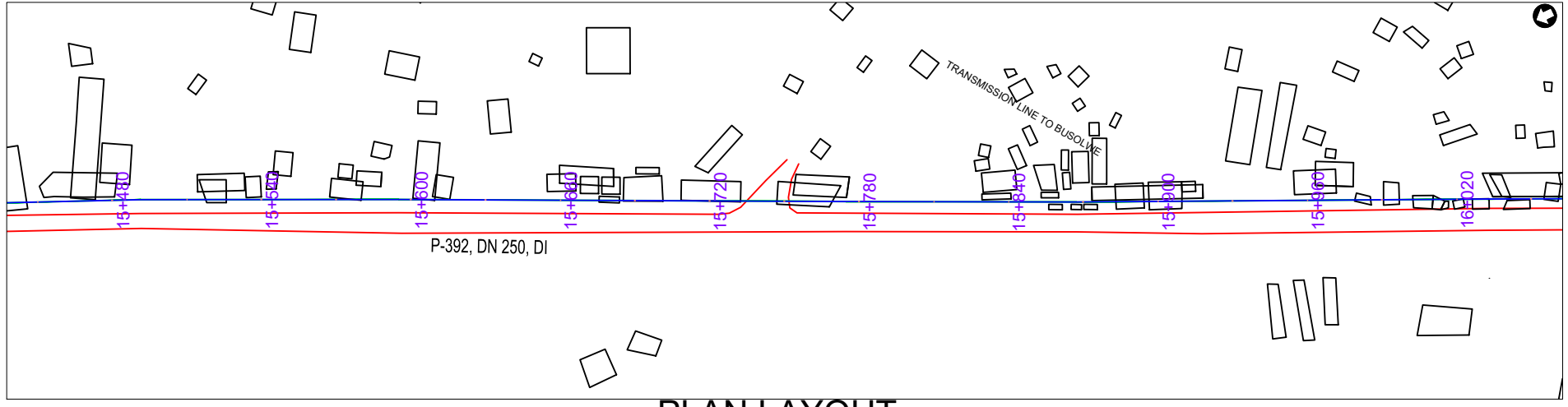
MINISTRY OF WATER AND ENVIRONMENT

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

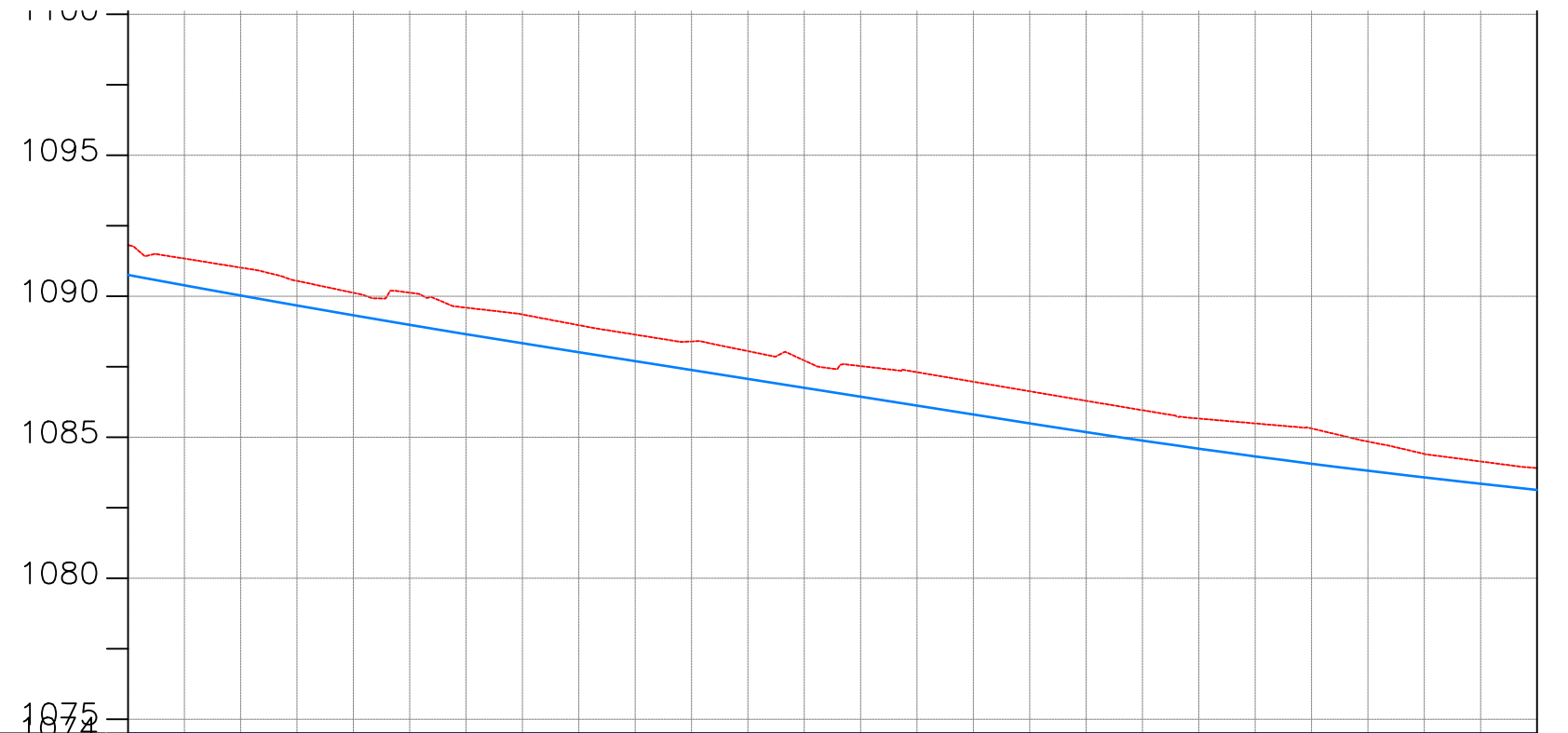
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 15+000.00 - 15+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 15+000.00 - 15+500.00)	
Sheet No.: 31	Format: A3



PLAN LAYOUT



CHAINAGE	15+500	15+520	15+560	15+600	15+640	15+680	15+720	15+760	15+800	15+840	15+880	15+920	15+960	16+000														
GROUND LEVEL(m)	1091.817	1091.338	1091.016	1090.546	1090.122	1090.127	1089.595	1089.353	1088.974	1088.639	1088.397	1088.057	1087.721	1087.524	1087.305	1086.967	1086.630	1086.294	1085.959	1085.663	1085.490	1085.313	1084.846	1084.409	1084.142	1083.907		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1090.76	1090.39	1090.03	1089.67	1089.33	1088.99	1088.66	1088.33	1088.01	1087.70	1087.38	1087.07	1086.75	1086.44	1086.12	1085.81	1085.49	1085.18	1084.88	1084.60	1084.32	1084.06	1083.81	1083.58	1083.35	1083.13		

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

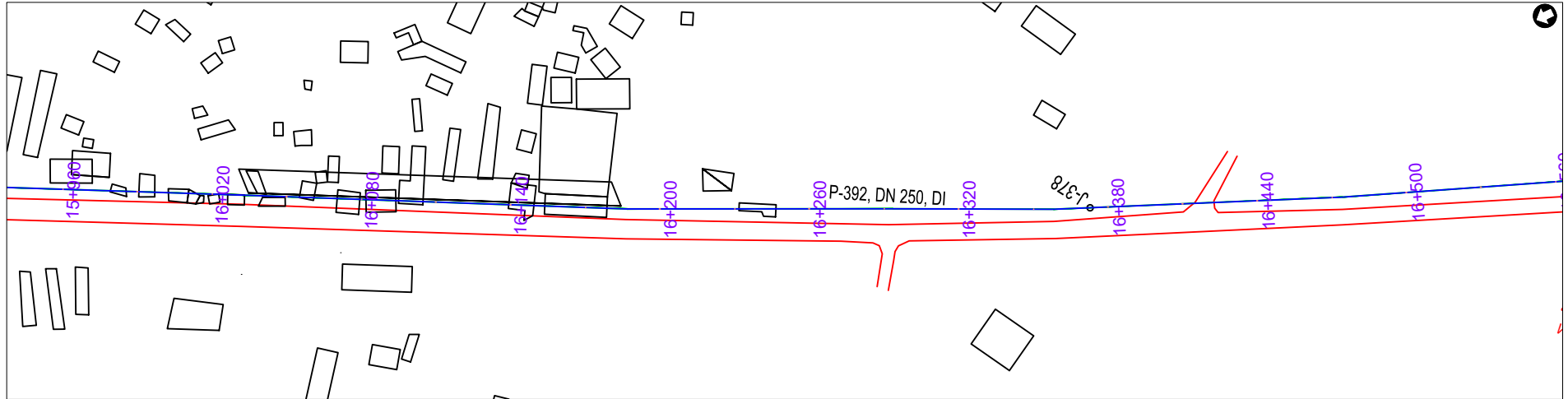
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

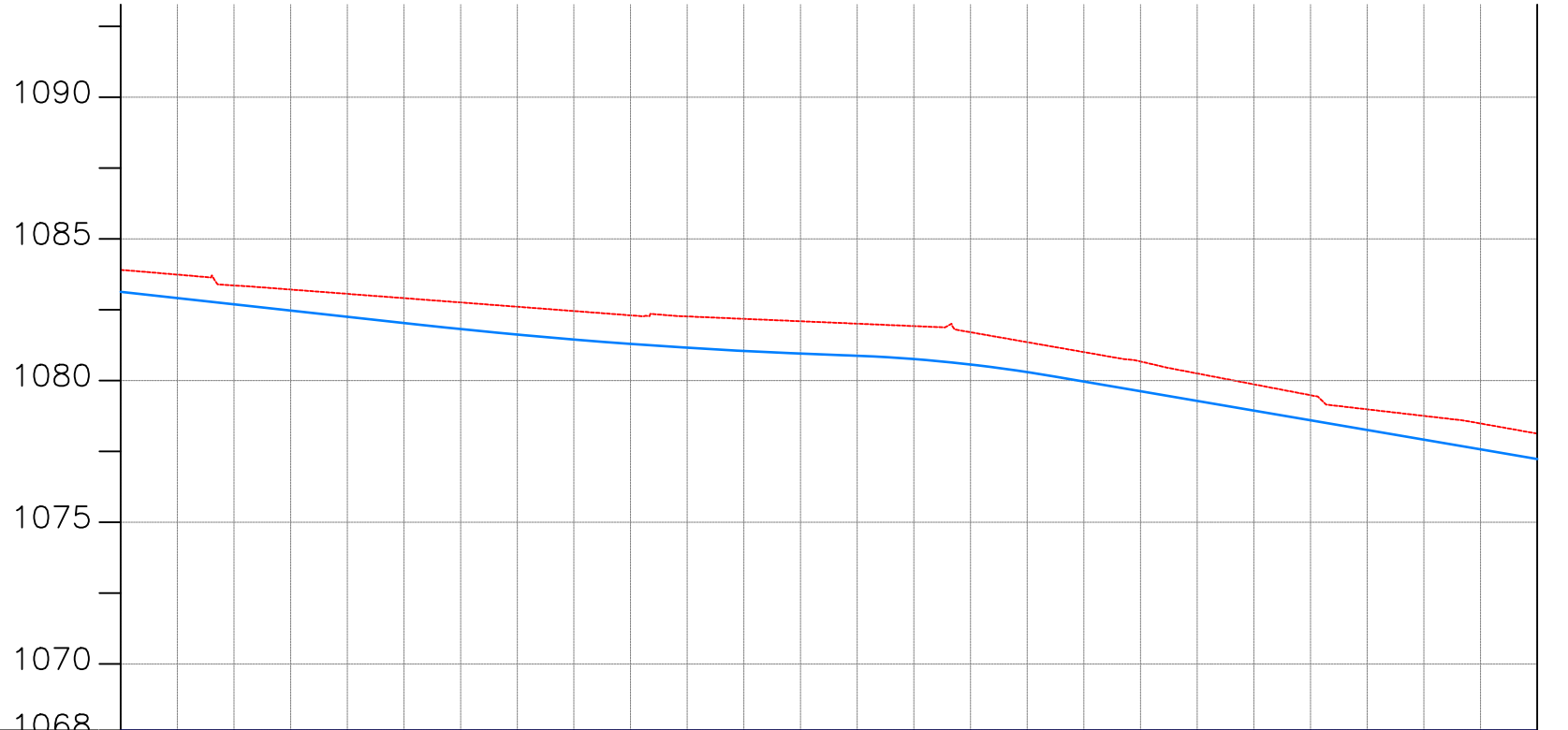



Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 15+500.00 - 16+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 15+500.00 - 16+000.00)	Sheet No.: 32
Format: A3	



PLAN LAYOUT



CHAINAGE	16+000		16+040		16+080		16+120		16+160		16+200		16+240		16+280		16+320		16+360		16+400		16+440		16+480	16+500		
GROUND LEVEL(m)	1083.907	1083.740	1083.358	1083.213	1083.061	1082.909	1082.757	1082.606	1082.454	1082.302	1082.263	1082.178	1082.093	1082.008	1081.923	1081.705	1081.355	1081.005	1080.674	1080.251	1079.867	1079.484	1078.985	1078.753	1078.485	1078.128		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1083.13	1082.91	1082.69	1082.47	1082.25	1082.03	1081.82	1081.62	1081.45	1081.29	1081.16	1081.05	1080.95	1080.88	1080.76	1080.57	1080.30	1079.97	1079.62	1079.28	1078.94	1078.60	1078.26	1077.92	1077.57	1077.23		

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

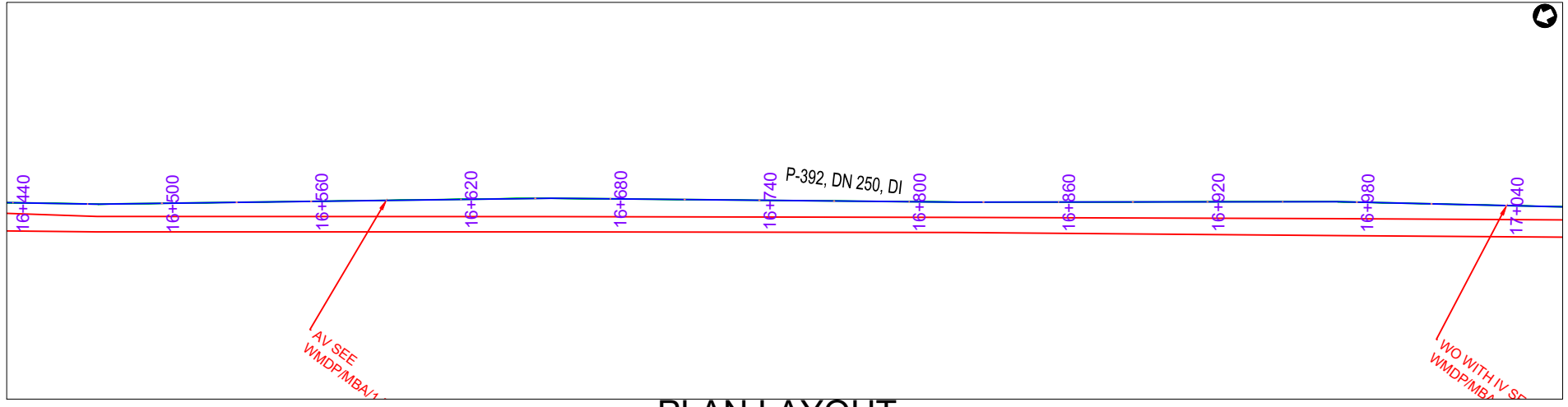
MINISTRY OF WATER AND ENVIRONMENT

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

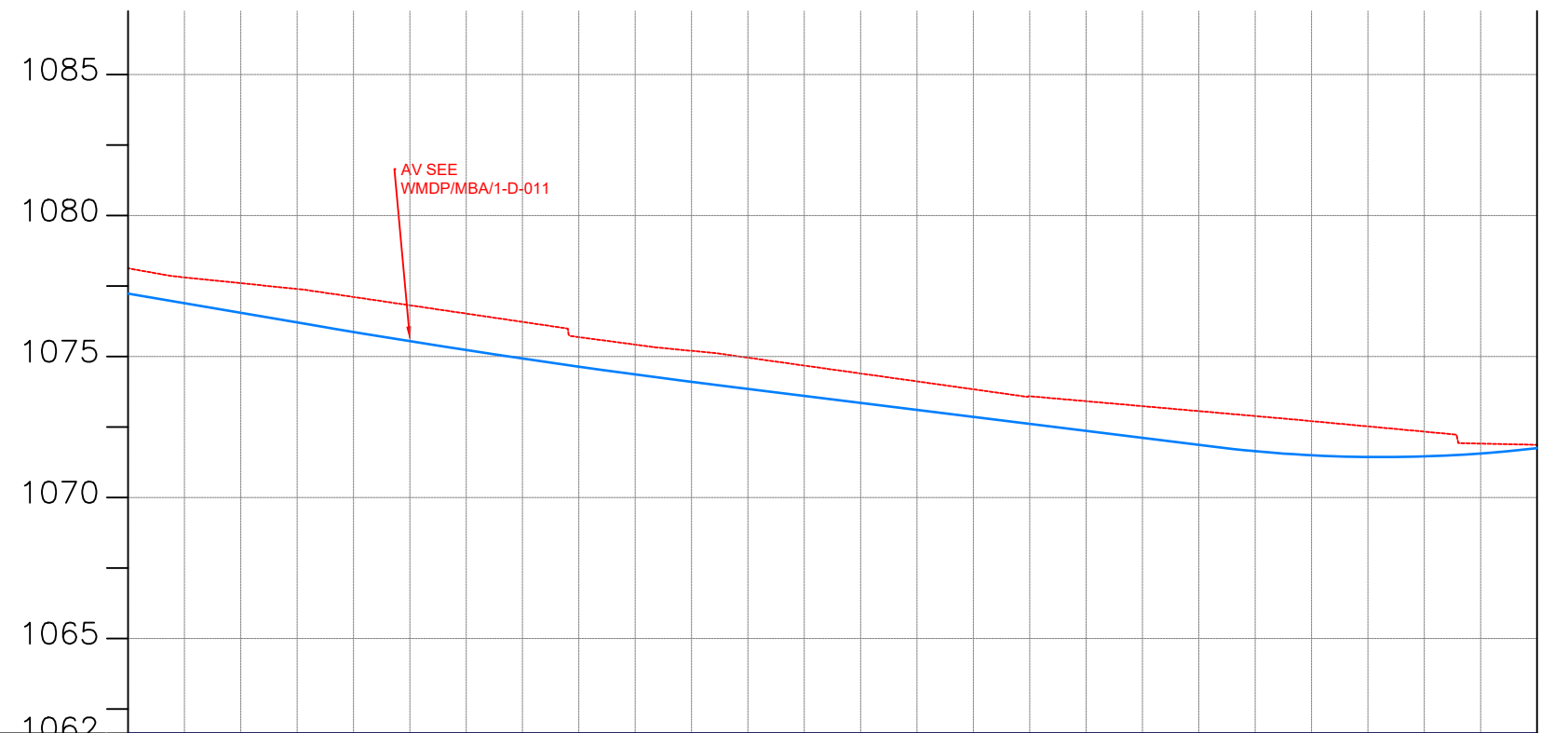
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 16+000.00 - 16+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 16+000.00 - 16+500.00)	
Sheet No.: 33	Format: A3



PLAN LAYOUT



CHAINAGE	16+500	16+520	16+560	16+600	16+640	16+680	16+720	16+760	16+800	16+840	16+880	16+920	16+960	17+000												
GROUND LEVEL(m)	1078.128	1077.806	1077.601	1077.395	1077.111	1076.816	1076.522	1076.227	1075.687	1075.420	1075.201	1074.958	1074.678	1074.398	1074.117	1073.837	1073.590	1073.414	1073.239	1073.063	1072.888	1072.708	1072.521	1072.335	1071.911	1071.867
PIPE DETAILS	DN 250 DI PIPE PN16																									
PIPE INVERT(m)	1077.23	1076.89	1076.55	1076.21	1075.87	1075.54	1075.23	1074.93	1074.64	1074.36	1074.10	1073.85	1073.60	1073.35	1073.10	1072.86	1072.61	1072.36	1072.11	1071.87	1071.64	1071.50	1071.44	1071.46	1071.56	1071.75

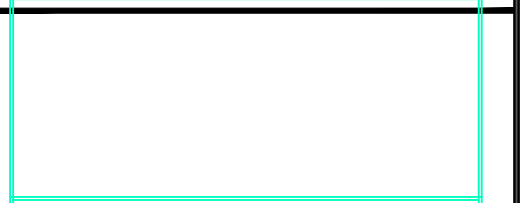
AMENDMENTS

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

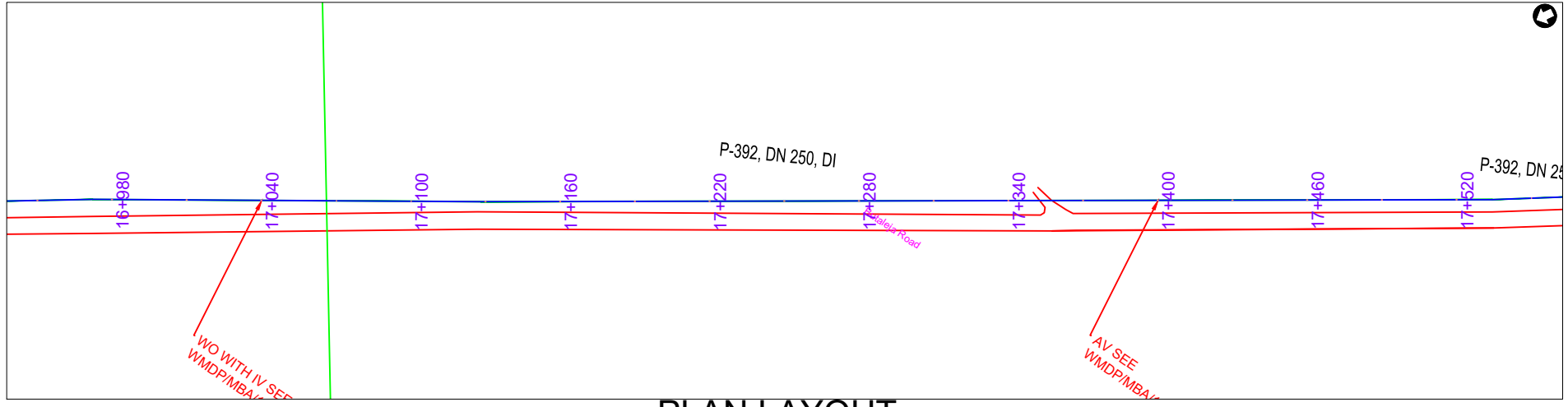
MINISTRY OF WATER AND ENVIRONMENT

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

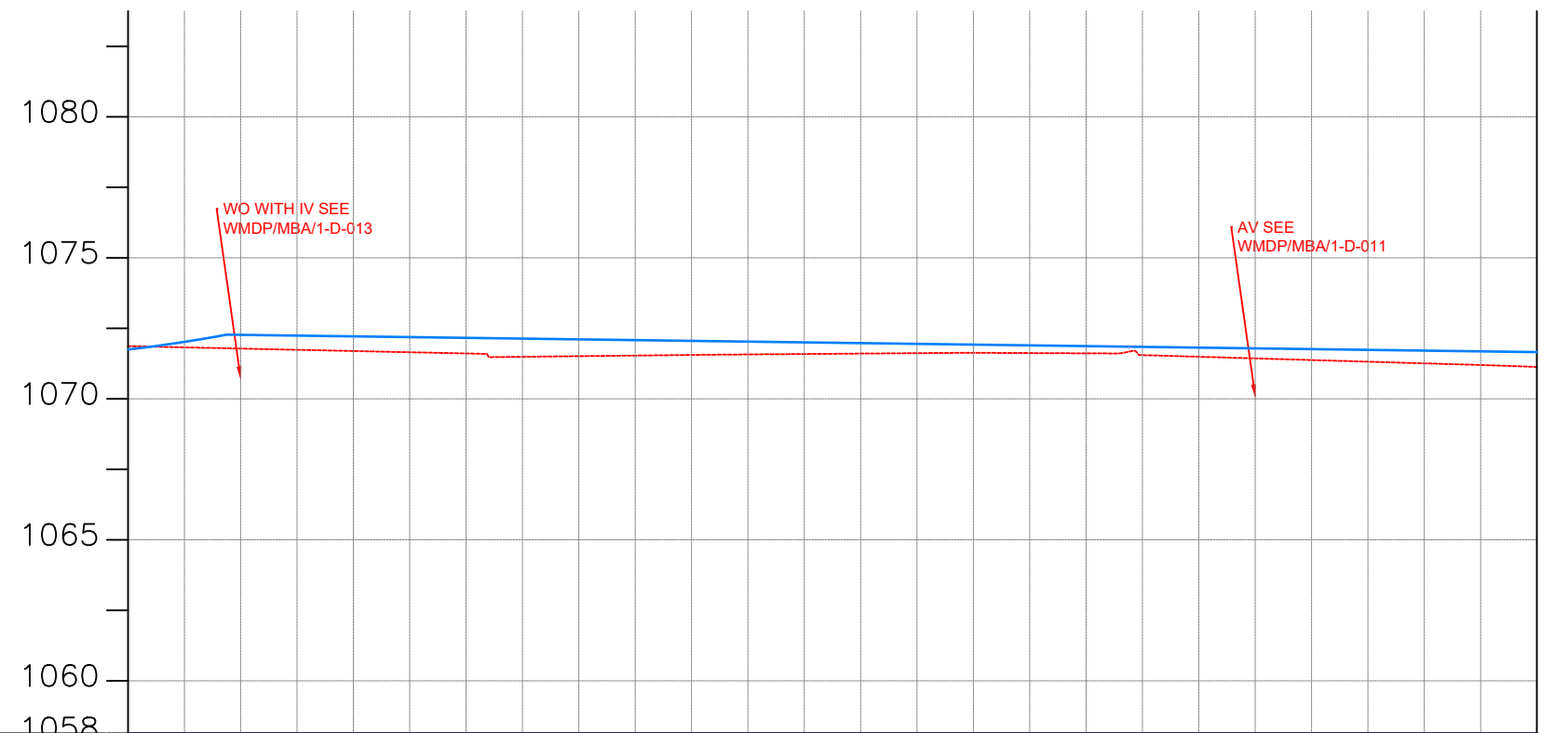
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 16+500.00 - 17+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Format: A3
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 16+500.00 - 17+000.00)	Sheet No.: 34



PLAN LAYOUT



CHAINAGE	17+000		17+040		17+080		17+120		17+160		17+200		17+240		17+280		17+320		17+360		17+400		17+440		17+480	17+500		
GROUND LEVEL(m)	1071.867	1071.824	1071.781	1071.737	1071.694	1071.651	1071.607	1071.489	1071.511	1071.533	1071.555	1071.573	1071.588	1071.603	1071.618	1071.631	1071.622	1071.612	1071.550	1071.491	1071.433	1071.374	1071.316	1071.257	1071.198	1071.129		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1071.75	1072.02	1072.27	1072.24	1072.21	1072.19	1072.16	1072.13	1072.11	1072.08	1072.06	1072.03	1072.00	1071.98	1071.95	1071.92	1071.90	1071.87	1071.84	1071.82	1071.79	1071.76	1071.74	1071.71	1071.68	1071.66		

AMENDMENTS		
No	Date	Revision

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

LEGEND

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

REPUBLIC OF UGANDA

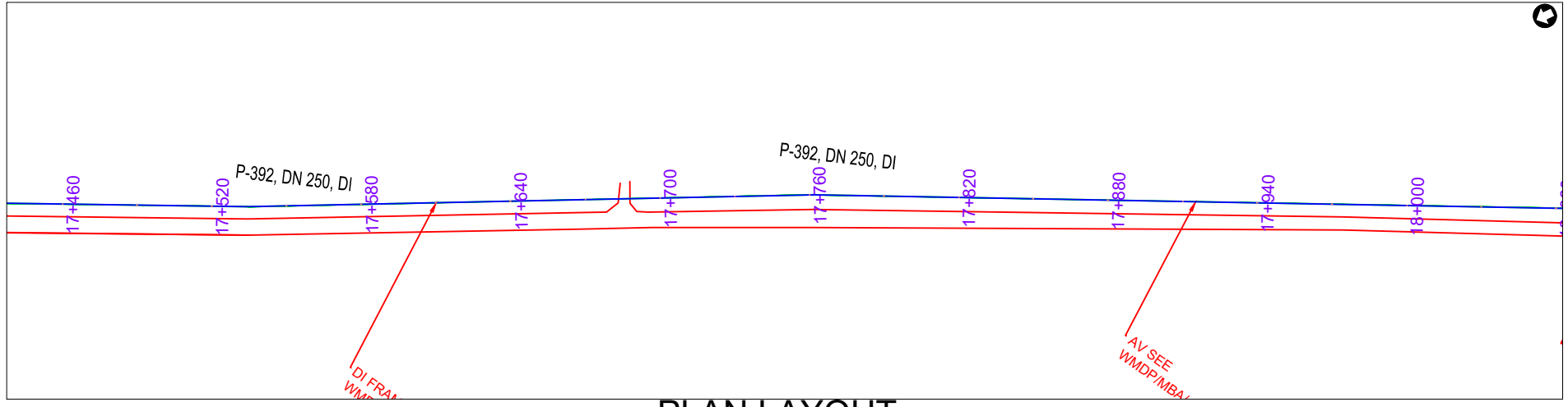
MINISTRY OF WATER AND ENVIRONMENT

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

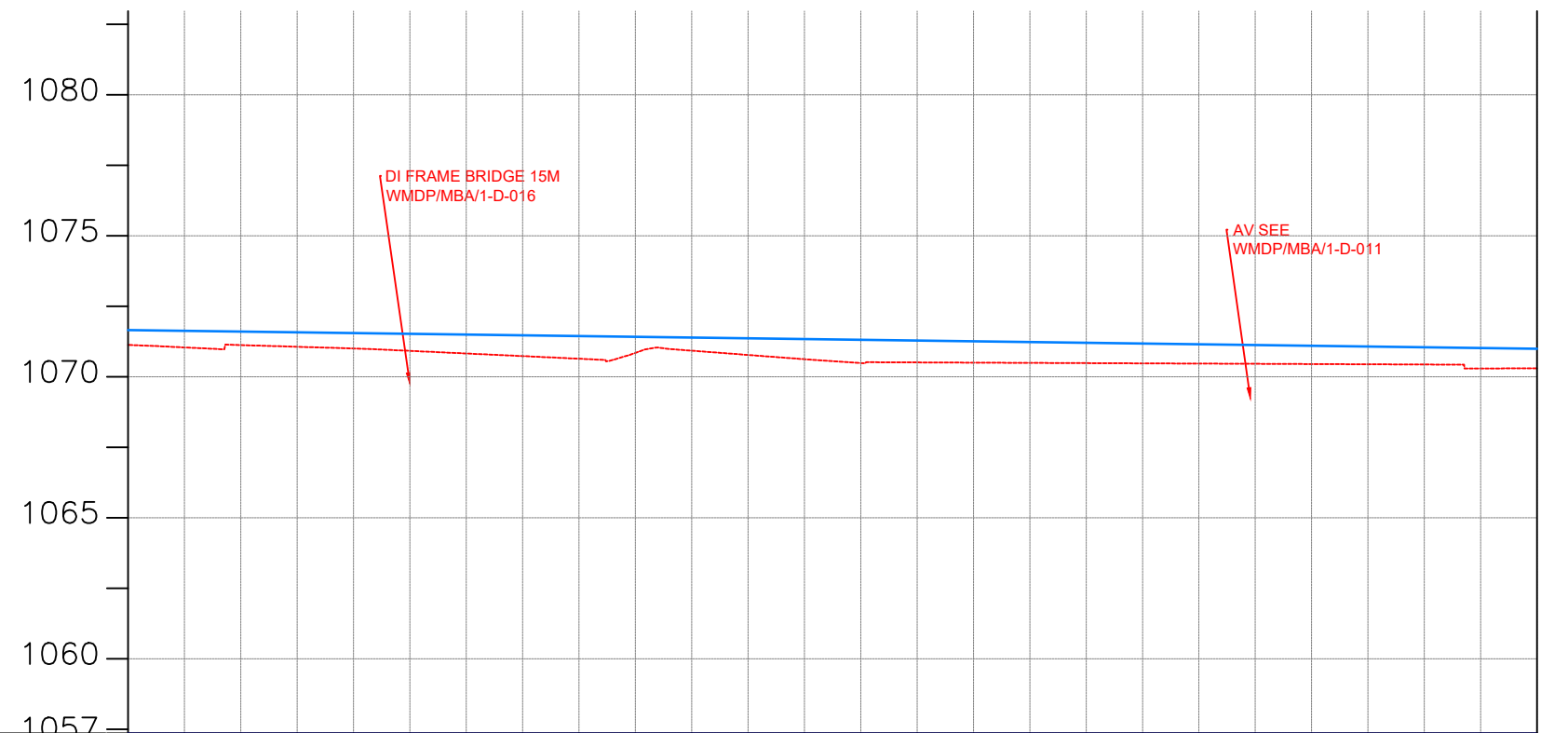
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 17+000.00 - 17+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 17+000.00 - 17+500.00)	
Sheet No.: 35	Format: A3



PLAN LAYOUT



CHAINAGE	17+500	17+520	17+560	17+600	17+640	17+680	17+720	17+760	17+800	17+840	17+880	17+920	17+960	18+000												
GROUND LEVEL(m)	1071.129	1071.042	1071.125	1071.064	1071.004	1070.919	1070.827	1070.734	1070.641	1070.849	1070.926	1070.775	1070.623	1070.487	1070.510	1070.501	1070.493	1070.485	1070.477	1070.468	1070.460	1070.452	1070.444	1070.435	1070.295	1070.299
PIPE DETAILS	DN 250 DI PIPE PN16																									
PIPE INVERT(m)	1071.66	1071.63	1071.61	1071.58	1071.55	1071.53	1071.50	1071.47	1071.45	1071.42	1071.39	1071.37	1071.34	1071.31	1071.29	1071.26	1071.24	1071.21	1071.18	1071.16	1071.13	1071.10	1071.08	1071.05	1071.02	1071.00

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

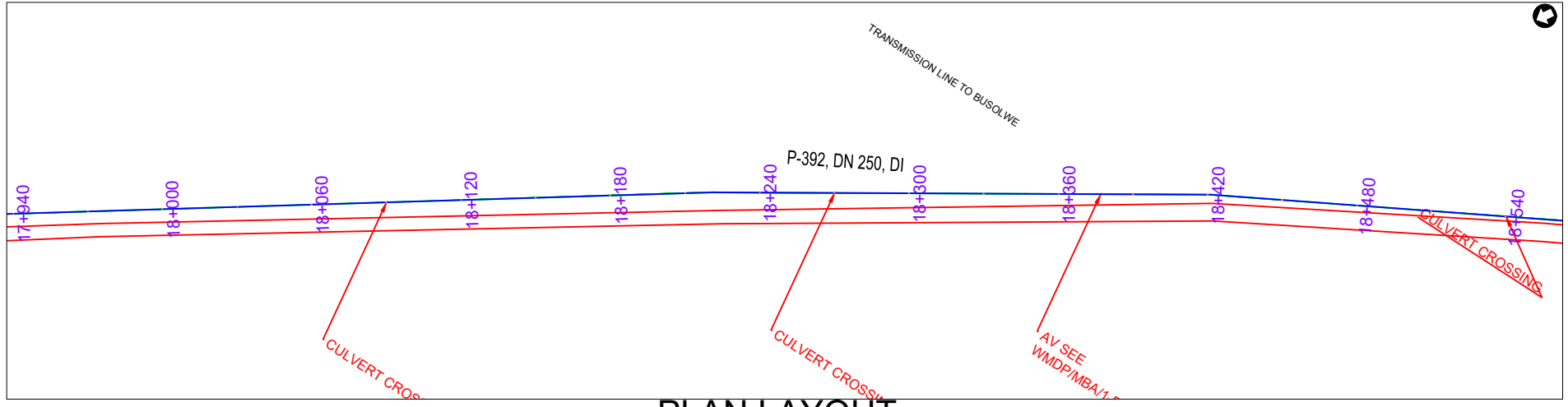
MINISTRY OF WATER AND ENVIRONMENT

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

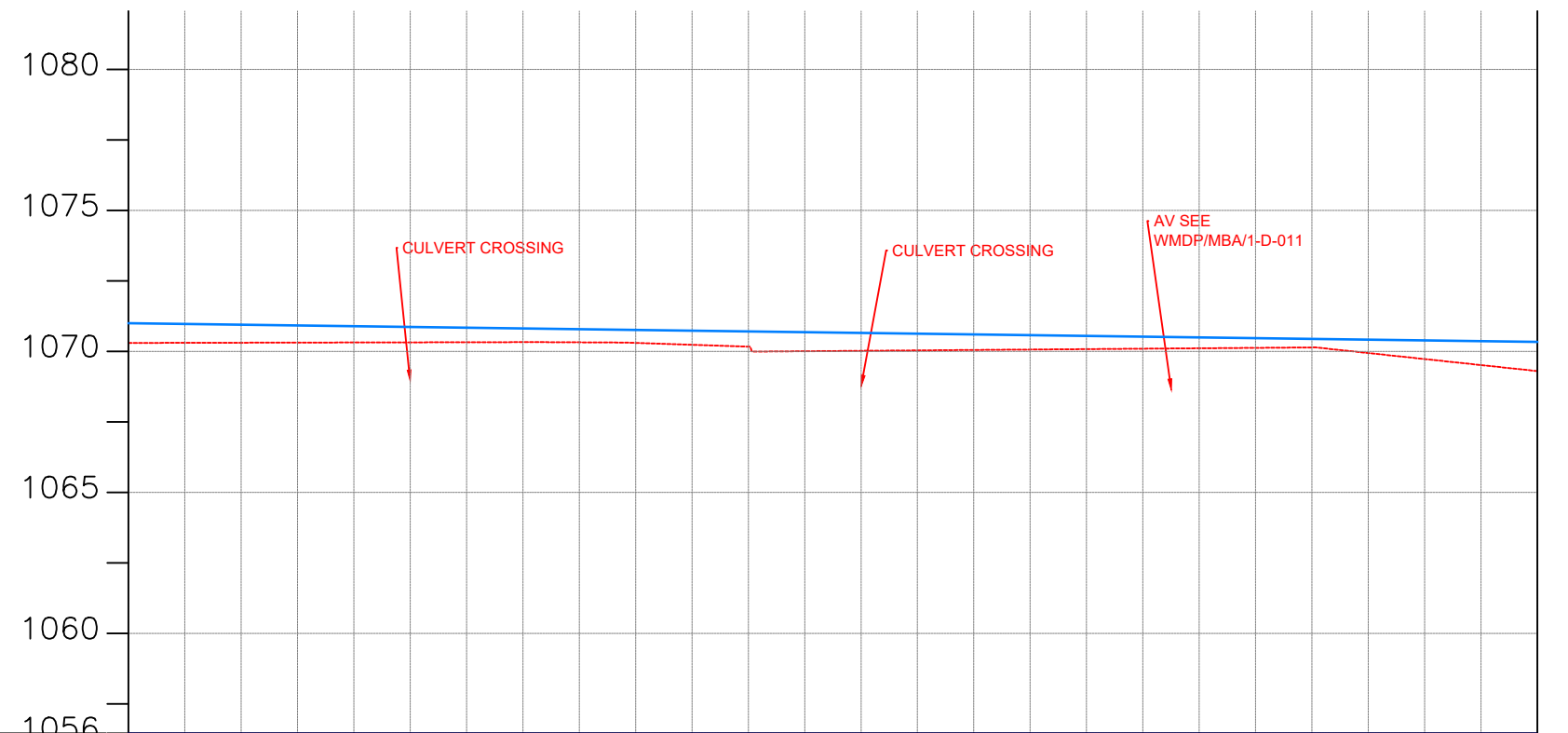
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 17+500.00 - 18+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 17+500.00 - 18+000.00)	
Sheet No.: 36	Format: A3



PLAN LAYOUT



CHAINAGE	18+000		18+040		18+080		18+120		18+160		18+200		18+240		18+280		18+320		18+360		18+400		18+440		18+480	18+500		
GROUND LEVEL(m)	1070.299	1070.303	1070.307	1070.311	1070.315	1070.319	1070.323	1070.327	1070.321	1070.301	1070.234	1070.167	1070.005	1070.020	1070.035	1070.050	1070.065	1070.079	1070.094	1070.109	1070.124	1070.139	1069.941	1069.727	1069.514	1069.304		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1071.00	1070.97	1070.94	1070.92	1070.89	1070.86	1070.84	1070.81	1070.79	1070.76	1070.73	1070.71	1070.68	1070.65	1070.63	1070.60	1070.57	1070.55	1070.52	1070.49	1070.47	1070.44	1070.41	1070.39	1070.36	1070.34		

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

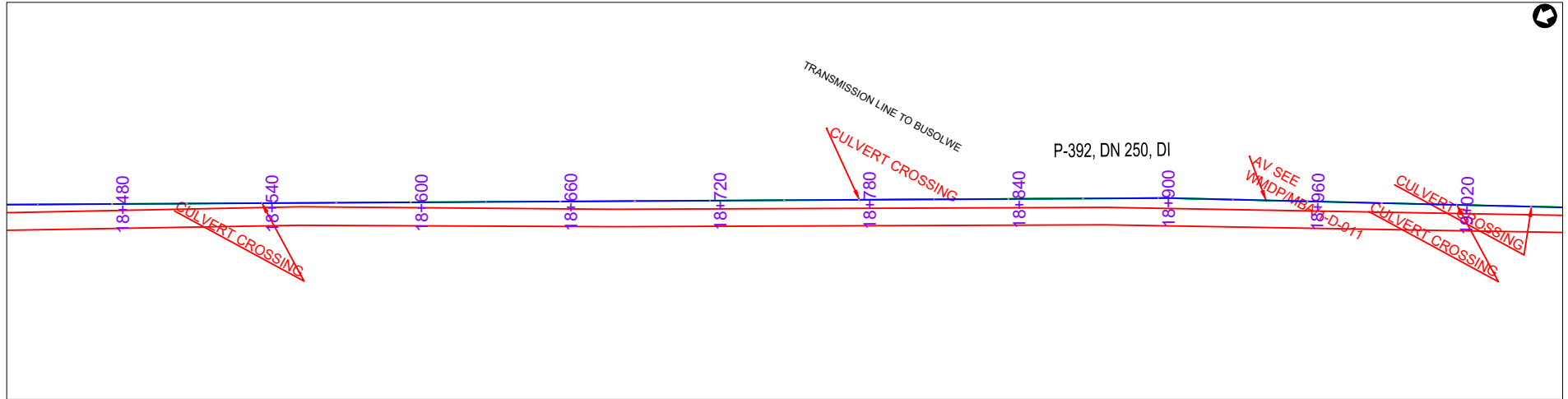
MINISTRY OF WATER AND ENVIRONMENT

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

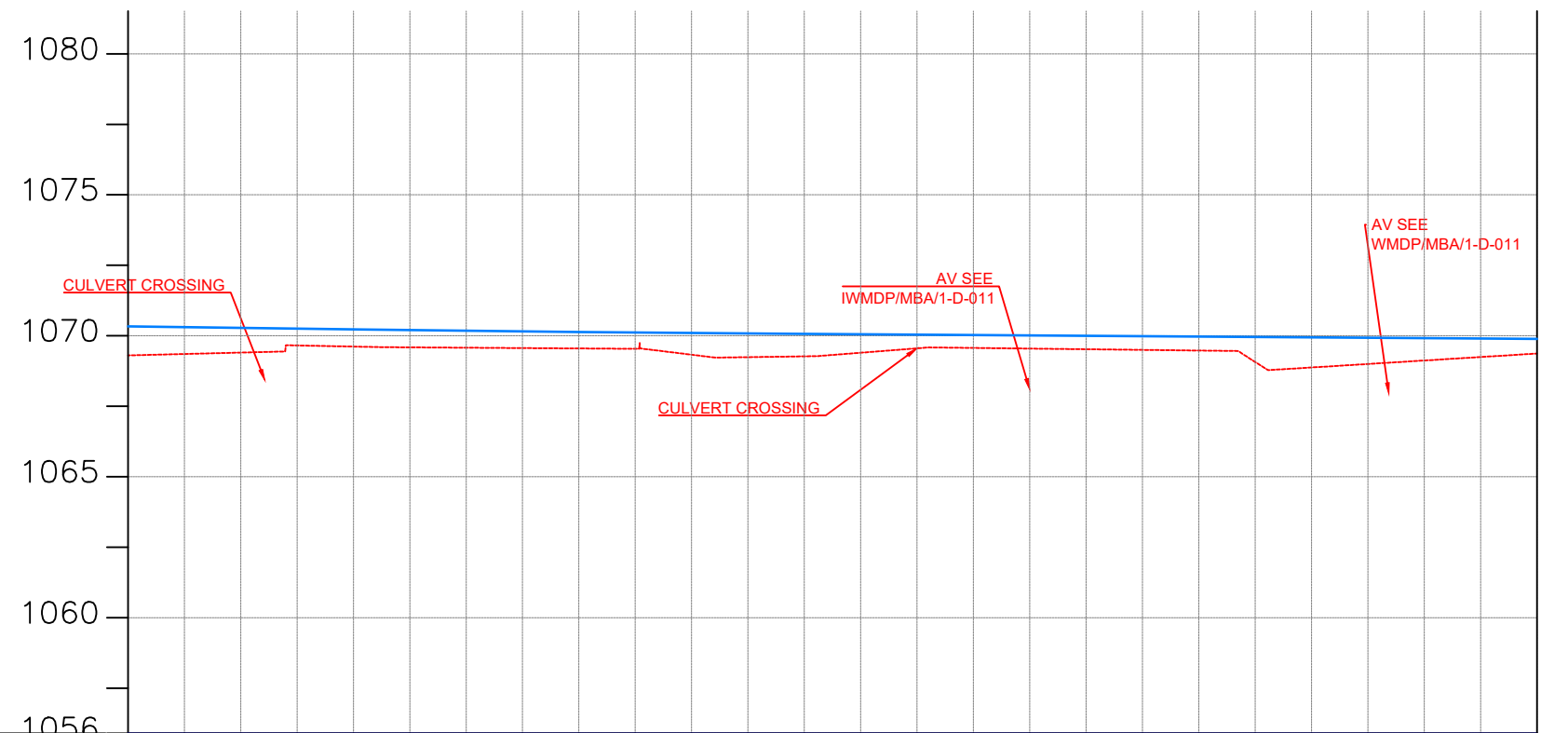
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 18+000.00 - 18+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 18+000.00 - 18+500.00)
Sheet No.: 37	Format: A3



PLAN LAYOUT



CHAINAGE	18+500	18+520	18+540	18+560	18+600	18+640	18+680	18+720	18+760	18+800	18+840	18+880	18+920	18+960	19+000										
GROUND LEVEL(m)	1069.304	1069.355	1069.405	1069.658	1069.617	1069.590	1069.577	1069.564	1069.551	1069.538	1069.329	1069.242	1069.271	1069.399	1069.555	1069.569	1069.546	1069.523	1069.500	1069.477	1069.072	1068.876	1069.000	1069.123	1069.247
PIPE DETAILS	DN 250 DI PIPE PN16																								
PIPE INVERT(m)	1070.34	1070.31	1070.28	1070.26	1070.23	1070.20	1070.18	1070.16	1070.14	1070.12	1070.10	1070.08	1070.07	1070.06	1070.04	1070.03	1070.01	1070.00	1069.99	1069.97	1069.96	1069.95	1069.93	1069.92	1069.90

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

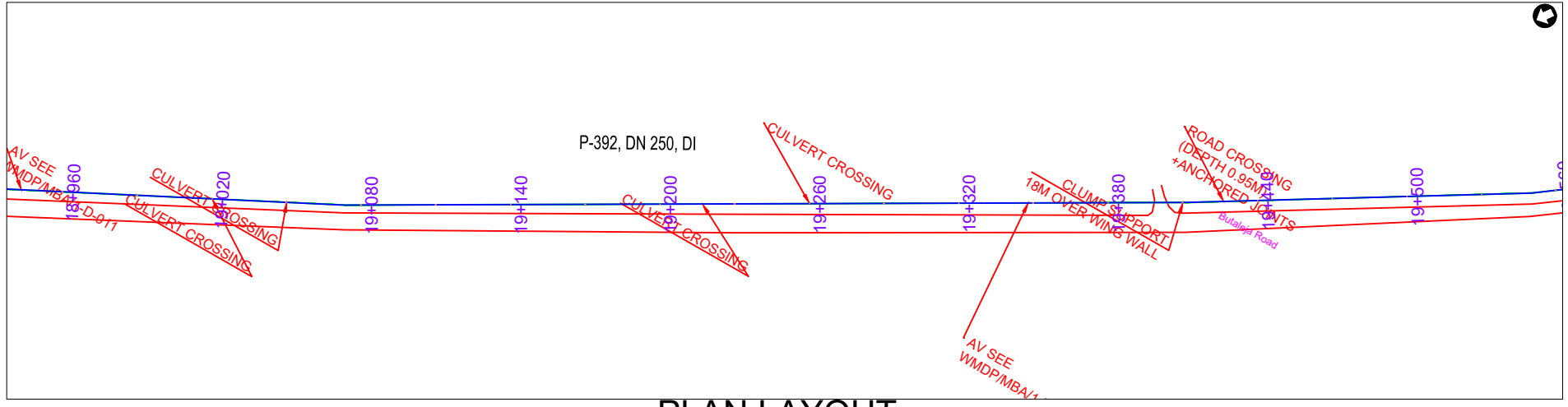
MINISTRY OF WATER AND ENVIRONMENT

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

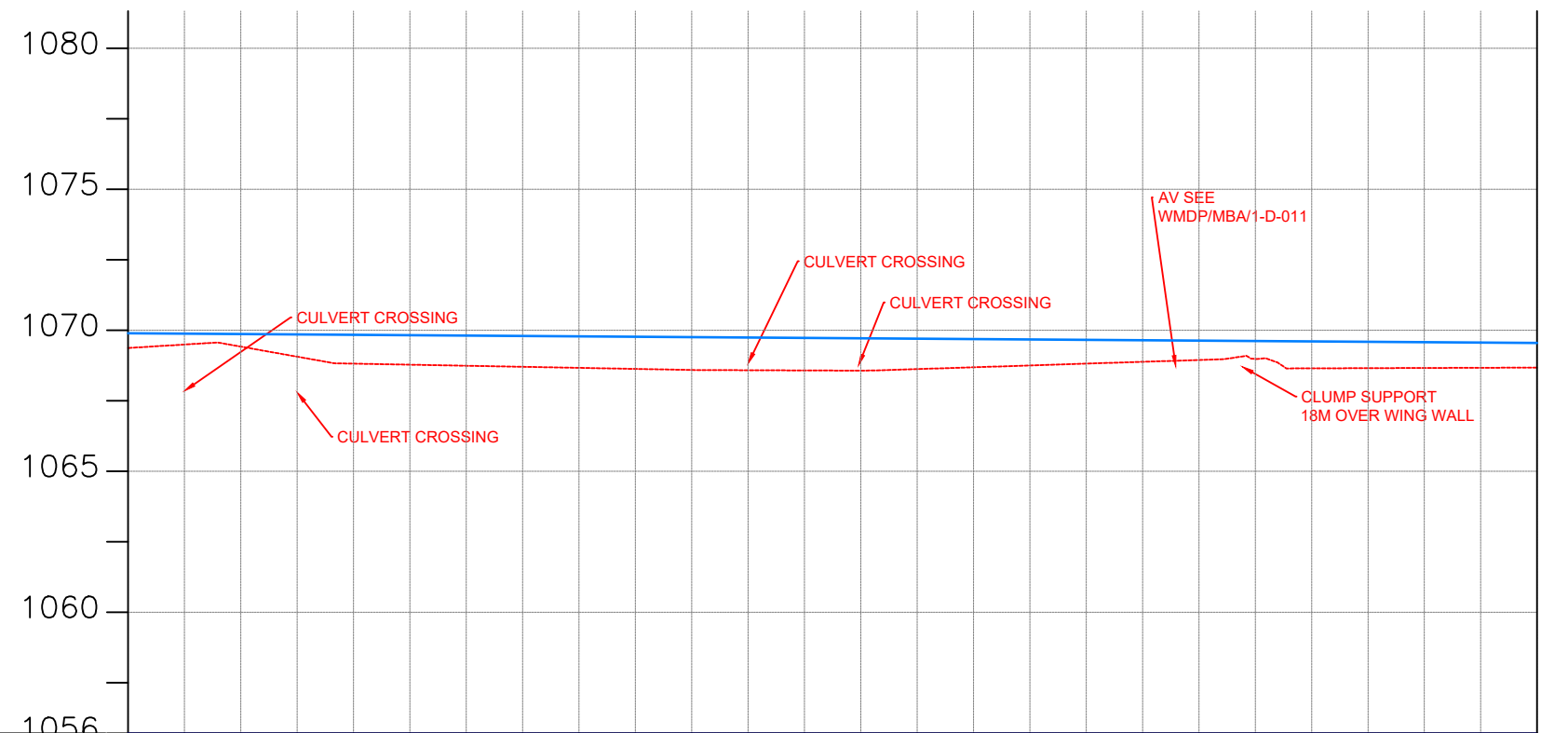
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 18+500.00 - 19+000.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Format: A3
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 18+500.00 - 19+000.00)	Sheet No.: 38



PLAN LAYOUT



CHAINAGE	19+000		19+040		19+080		19+120		19+160		19+200		19+240		19+280		19+320		19+360		19+400		19+440		19+480	19+500		
GROUND LEVEL(m)	1069.371	1069.494	1069.419	1069.063	1068.816	1068.779	1068.741	1068.704	1068.667	1068.629	1068.592	1068.583	1068.575	1068.569	1068.622	1068.687	1068.752	1068.816	1068.881	1068.946	1068.984	1068.649	1068.656	1068.663	1068.669	1068.676		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1069.89	1069.88	1069.86	1069.85	1069.84	1069.82	1069.81	1069.80	1069.78	1069.77	1069.75	1069.74	1069.73	1069.71	1069.70	1069.69	1069.67	1069.66	1069.64	1069.63	1069.62	1069.60	1069.59	1069.58	1069.56	1069.55		

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

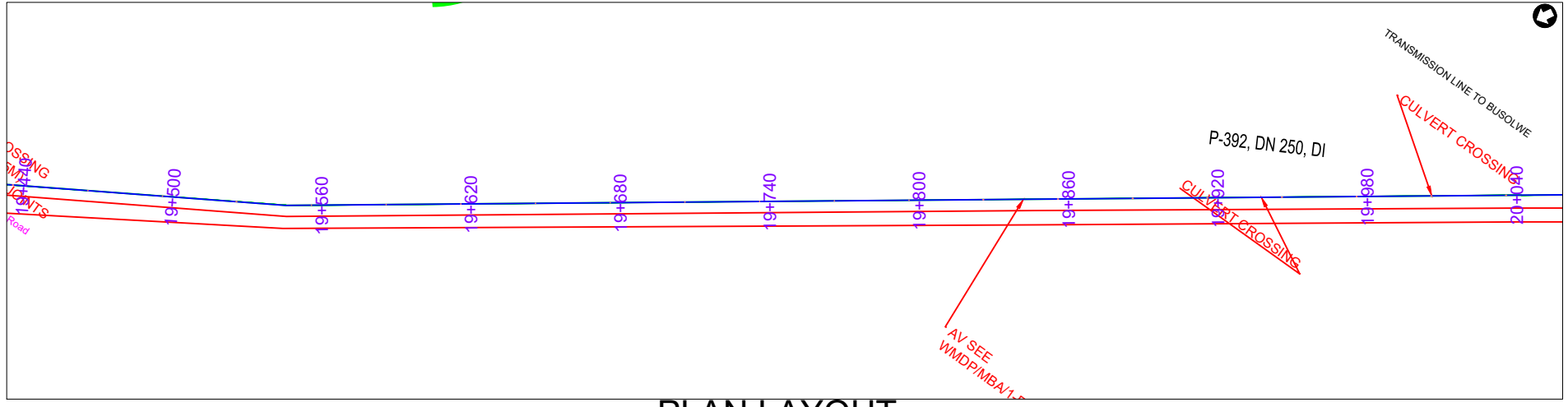
MINISTRY OF WATER AND ENVIRONMENT

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

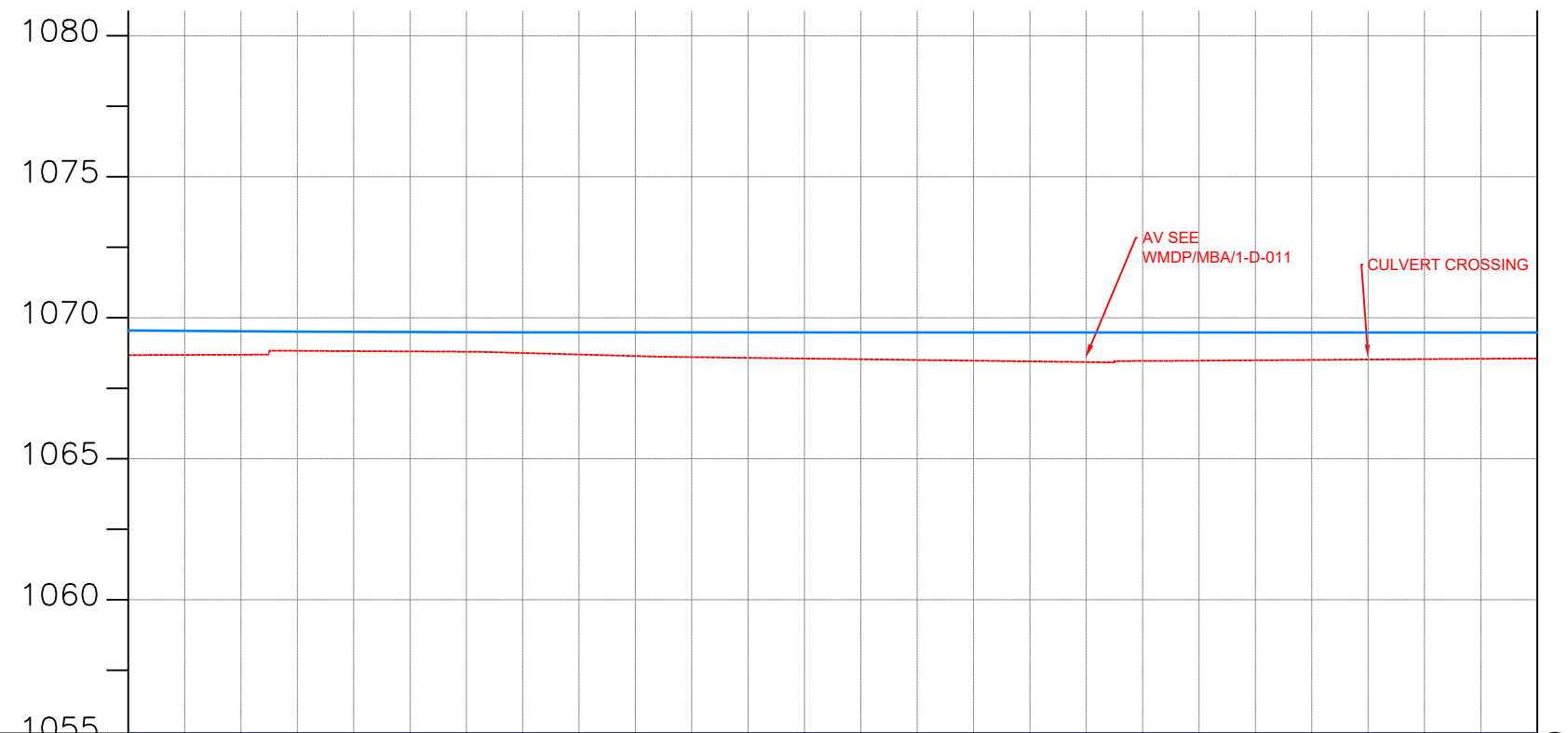
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 19+000.00 - 19+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MB/TL TO BUSOLWE (CH 19+000.00 - 19+500.00)	Sheet No.: 39
Format: A3	



PLAN LAYOUT



CHAINAGE	19+500	19+520	19+560	19+600	19+640	19+680	19+720	19+760	19+800	19+840	19+880	19+920	19+960	20+000													
GROUND LEVEL(m)	1068.676	1068.683	1068.690	1068.828	1068.817	1068.806	1068.795	1068.751	1068.697	1068.643	1068.604	1068.579	1068.553	1068.528	1068.503	1068.478	1068.453	1068.428	1068.467	1068.478	1068.491	1068.505	1068.518	1068.531	1068.545	1068.558	
PIPE DETAILS	DN 250 DI PIPE PN16																										
PIPE INVERT(m)	1069.55	1069.54	1069.52	1069.51	1069.50	1069.49	1069.49	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48	1069.48

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

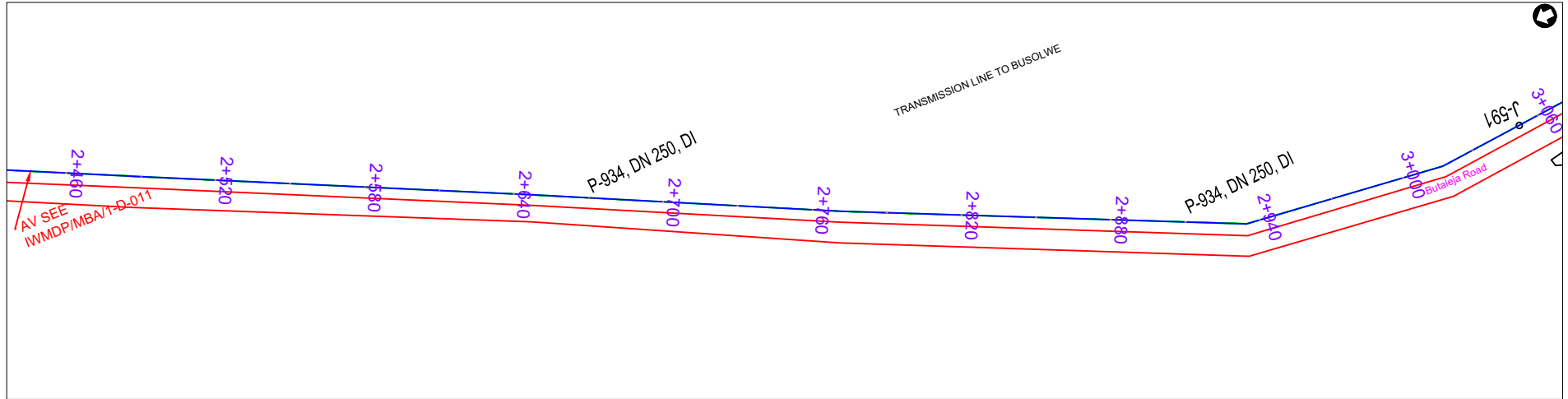
MINISTRY OF WATER AND ENVIRONMENT

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

CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 19+500.00 - 20+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 19+500.00 - 20+000.00)	
Sheet No.: 40	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)	1177.833	1177.810	1177.788	1177.739	1177.726	1177.739	1177.751	1177.763	1177.966	1178.058	1178.150	1178.242	1178.333	1178.425	1178.540	1178.692	1178.843	1178.995	1179.147	1179.298	1179.460	1179.619	1179.898	1179.869	1179.845	1179.879
PIPE DETAILS	DN 250 DI PIPE PN16																									
PIPE INVERT(m)	1176.70	1176.79	1176.88	1176.96	1177.04	1177.12	1177.21	1177.29	1177.37	1177.45	1177.53	1177.61	1177.69	1177.77	1177.85	1177.93	1178.01	1178.09	1178.17	1178.25	1178.33	1178.40	1178.47	1178.53	1178.60	1178.65

AMENDMENTS		
No	Date	Revision

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

LEGEND

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

REPUBLIC OF UGANDA

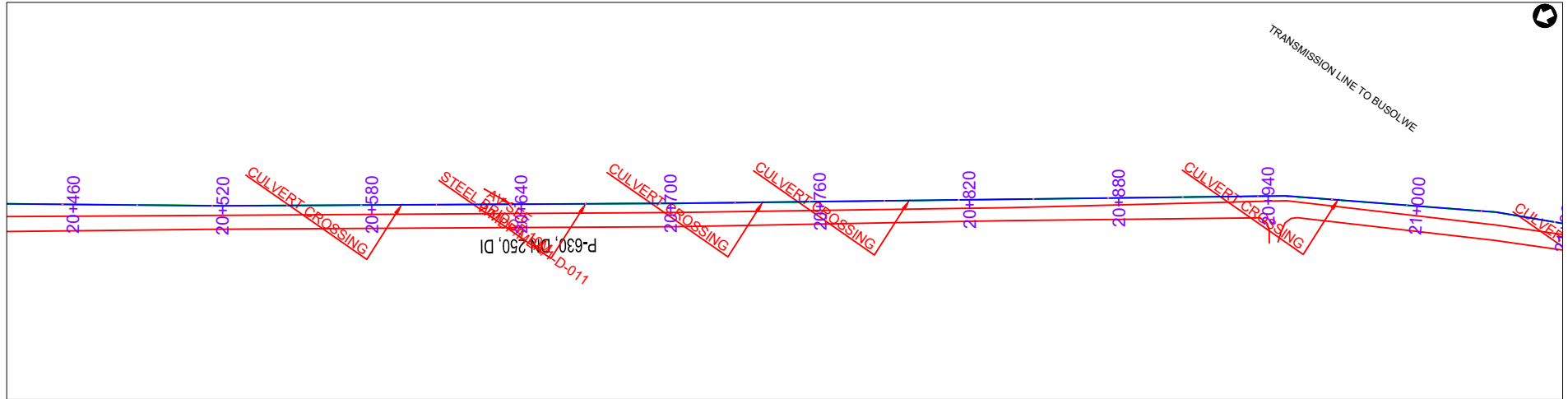
MINISTRY OF WATER AND ENVIRONMENT

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

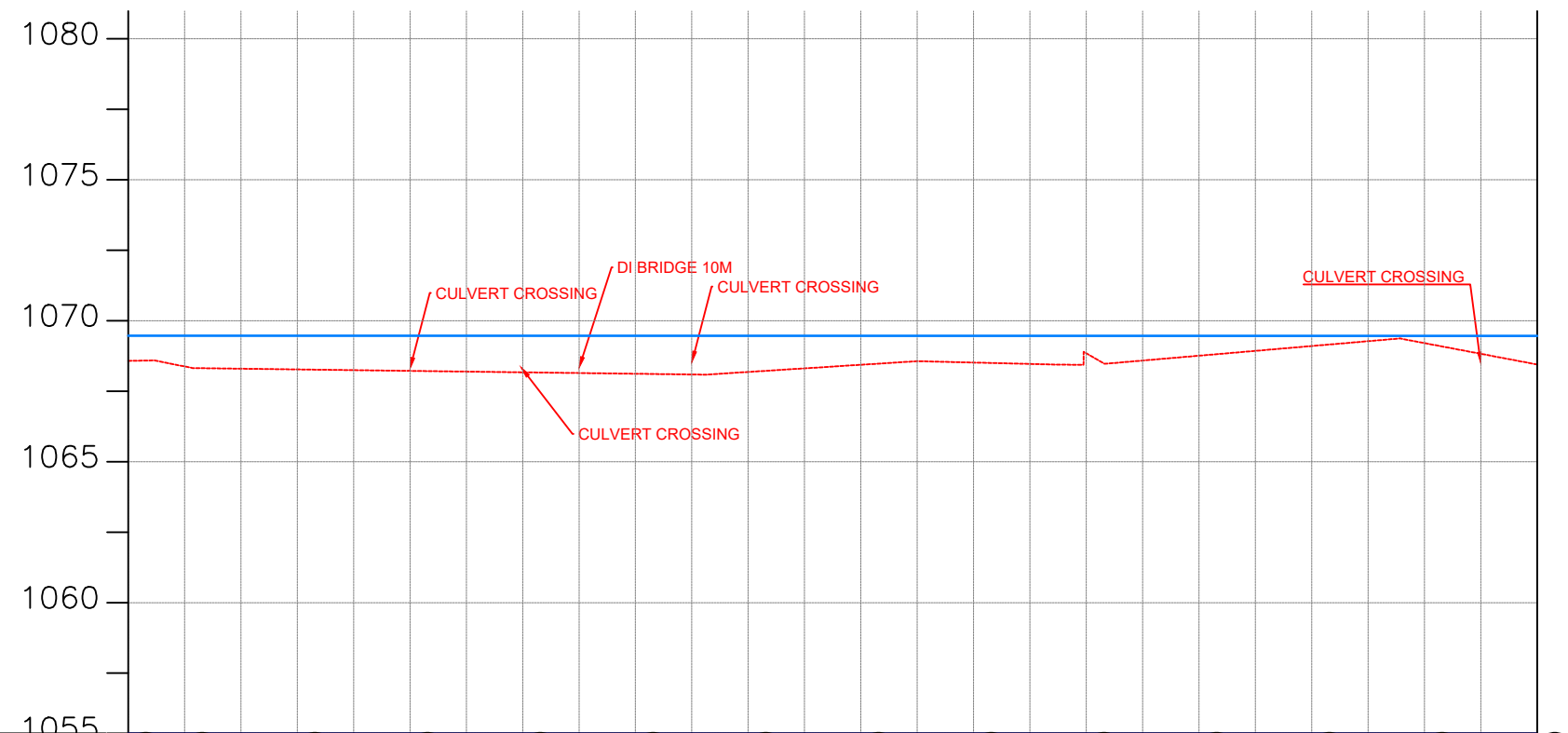
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 2+500.00 - 3+000.00)**

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



PLAN LAYOUT



CHAINAGE	20+500	20+520	20+560	20+600	20+640	20+680	20+720	20+760	20+800	20+840	20+880	20+920	20+960	21+000												
GROUND LEVEL(m)	1068.574	1068.377	1068.297	1068.272	1068.246	1068.220	1068.195	1068.169	1068.144	1068.118	1068.092	1068.182	1068.309	1068.436	1068.564	1068.515	1068.466	1068.842	1068.586	1068.758	1068.930	1069.101	1069.273	1069.205	1068.826	
PIPE DETAILS	DN 250 DI PIPE PN16																									
PIPE INVERT(m)	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.47	1069.46	1069.47	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46

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

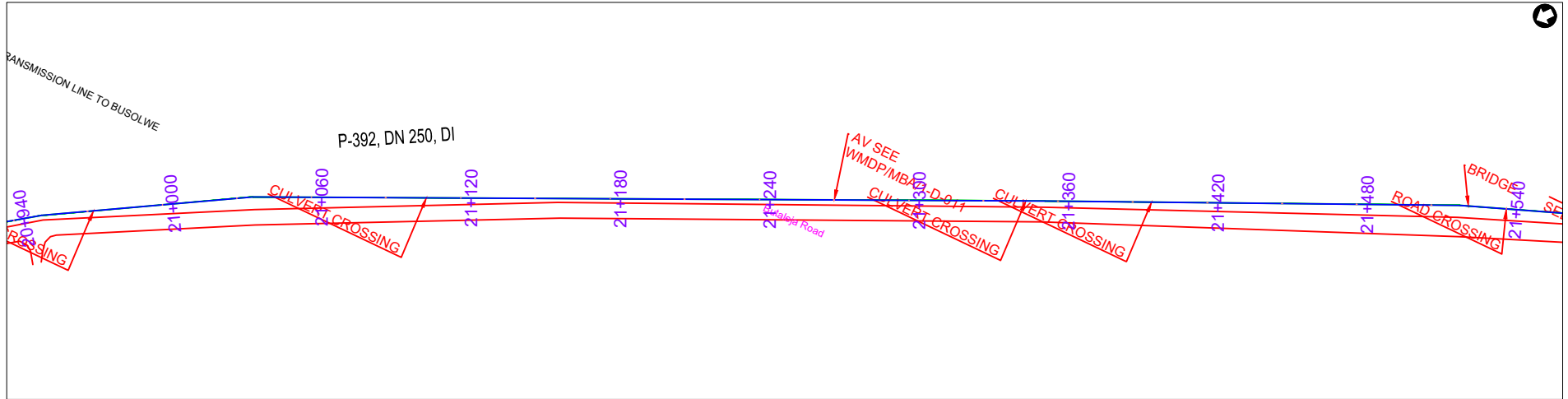
MINISTRY OF WATER AND ENVIRONMENT

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

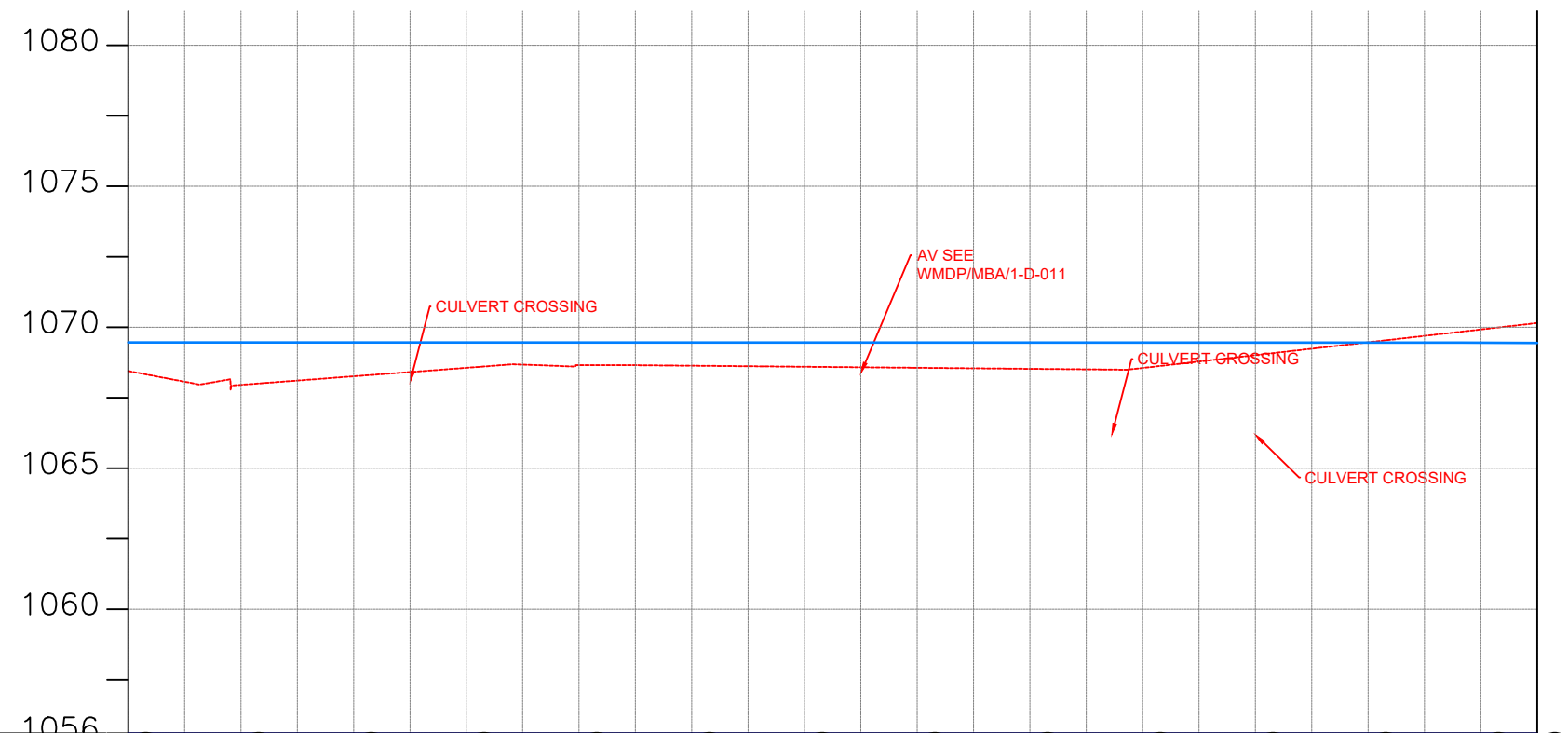
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 20+500.00 - 21+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 20+500.00 - 21+000.00)
Sheet No.: 42	Format: A3



PLAN LAYOUT



CHAINAGE	1068.446	21+000	1068.067	1067.957	21+040	1068.108	1068.259	21+080	1068.410	1068.561	21+120	1068.674	1068.656	21+160	1068.652	1068.635	21+200	1068.617	1068.598	21+240	1068.580	1068.562	21+280	1068.543	1068.525	21+320	1068.506	1068.555	21+360	1068.783	1069.011	21+400	1069.238	1069.466	21+440	1069.693	1069.921	21+480	1070.149	21+500
GROUND LEVEL(m)	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.45	1069.44			
PIPE DETAILS	DN 250 DI PIPE PN16																																							
PIPE INVERT(m)	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.46	1069.45	1069.44				

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

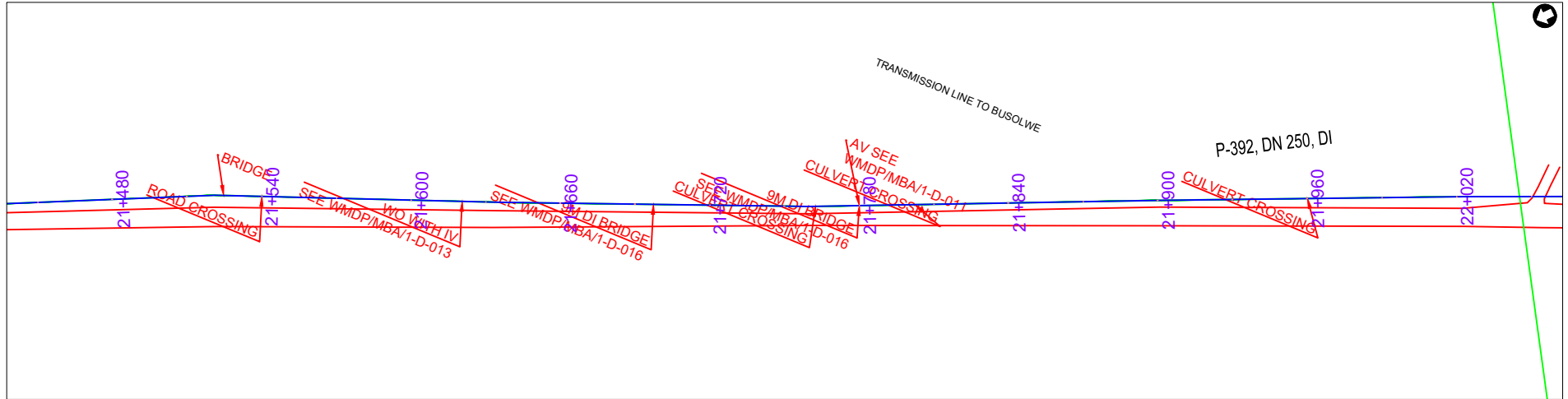
MINISTRY OF WATER AND ENVIRONMENT

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

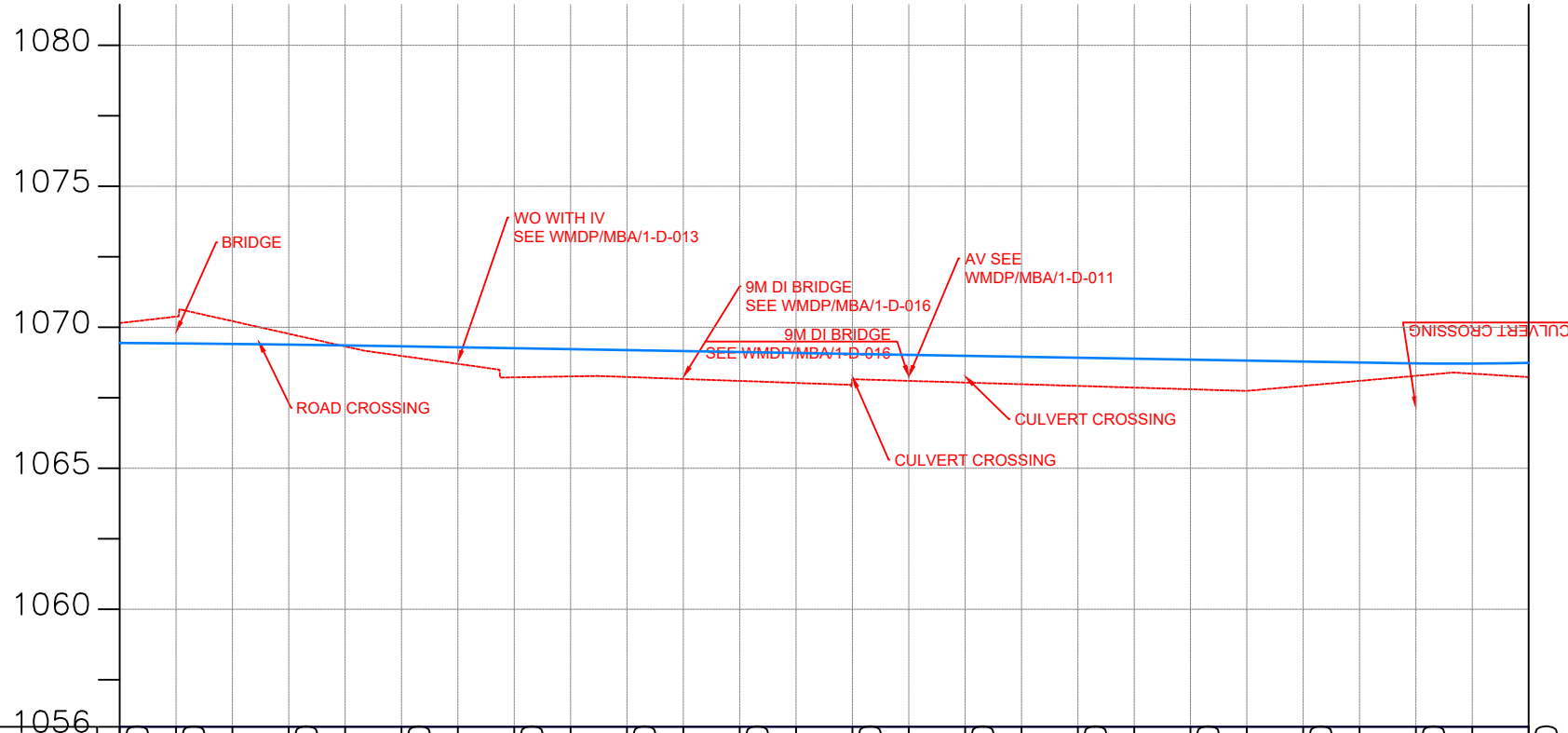
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 21+000.00 - 21+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 21+000.00 - 21+500.00)
Sheet No.: 43	Format: A3



PLAN LAYOUT



CHAINAGE	21+500	21+520		21+560	21+600		21+640		21+680		21+720		21+760		21+800		21+840		21+880		21+920		21+960		22+000	
GROUND LEVEL(m)	1070.149	1070.376	1070.216	1069.768	1069.319	1068.983	1068.702	1068.223	1068.257	1068.235	1068.165	1068.095	1068.025	1068.157	1068.098	1068.038	1067.979	1067.919	1067.860	1067.800	1067.743	1067.921	1068.099	1068.277	1068.354	
PIPE DETAILS	DN 250 DI PIPE PN16																									
PIPE INVERT(m)	1069.44	1069.43	1069.41	1069.38	1069.36	1069.32	1069.29	1069.26	1069.22	1069.19	1069.15	1069.12	1069.09	1069.05	1069.02	1068.98	1068.95	1068.92	1068.88	1068.85	1068.81	1068.78	1068.75	1068.72	1068.71	1068.74

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

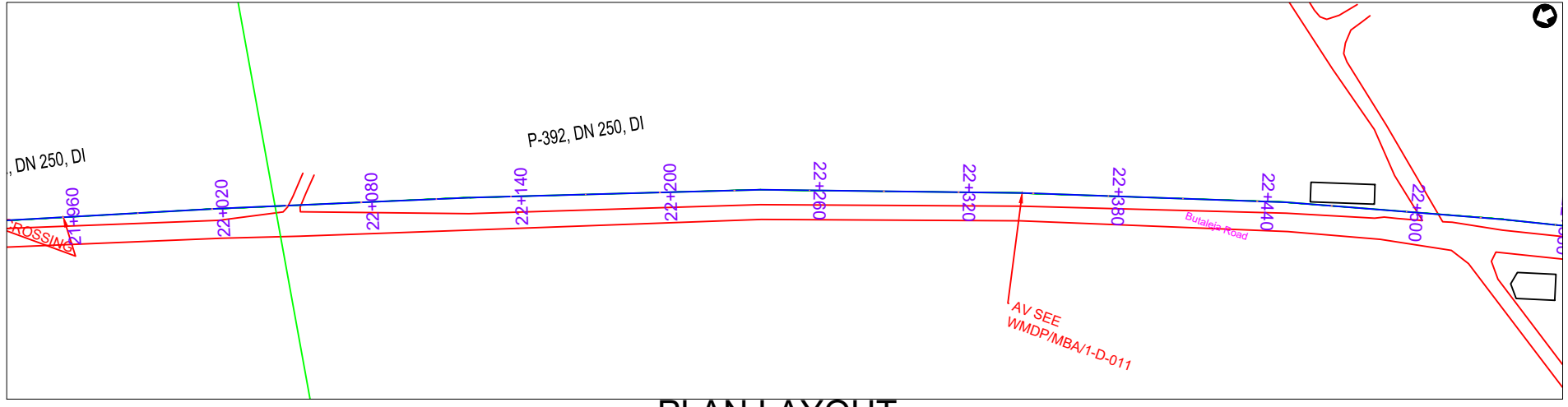
MINISTRY OF WATER AND ENVIRONMENT

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

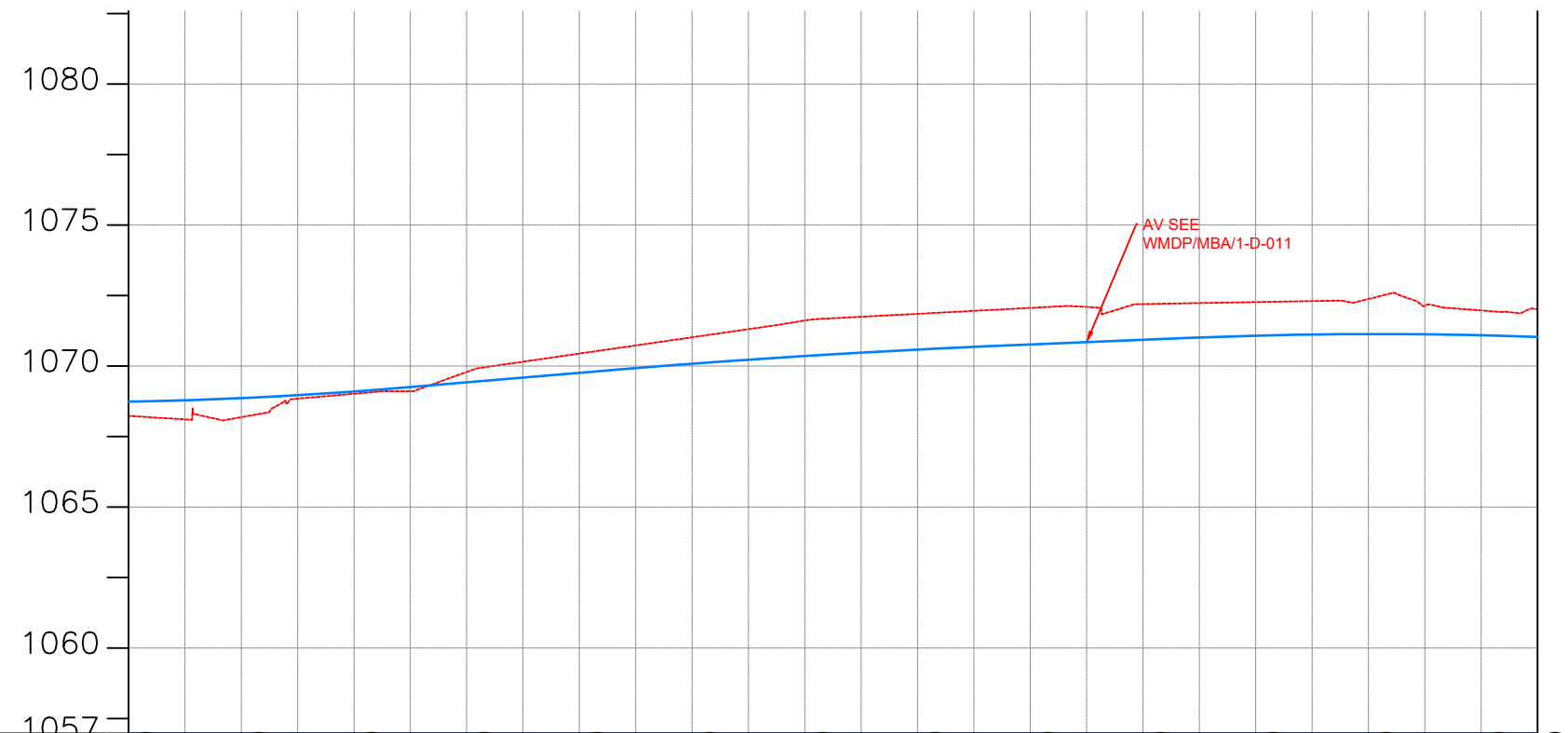
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 21+500.00 - 22+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 21+500.00 - 22+000.00)	
Sheet No.: 44	Format: A3



PLAN LAYOUT



CHAINAGE	1068.231	22+000	1068.108		1068.186	22+040	1068.844		1069.017	22+080	1069.108		1069.790	22+120	1070.154		1070.443	22+160	1070.731		1071.020	22+200	1071.308		1071.618	22+240	1071.747		1071.852	22+280	1071.957		1072.061	22+320	1072.095		1072.198	22+360	1072.233		1072.268	22+400	1072.304		1072.378	22+440	1072.134		1071.972	22+480	1072.020	22+500
GROUND LEVEL(m)																																																				
PIPE DETAILS	DN 250 DI PIPE PN16																																																			
PIPE INVERT(m)	1068.74		1068.79		1068.86		1068.97		1069.10		1069.26		1069.42		1069.59		1069.76		1069.93		1070.08		1070.22		1070.35		1070.47		1070.58		1070.68		1070.76		1070.85		1070.93		1071.01		1071.08		1071.12		1071.13		1071.12		1071.09		1071.03	

AMENDMENTS		
No	Date	Revision

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

LEGEND

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

REPUBLIC OF UGANDA

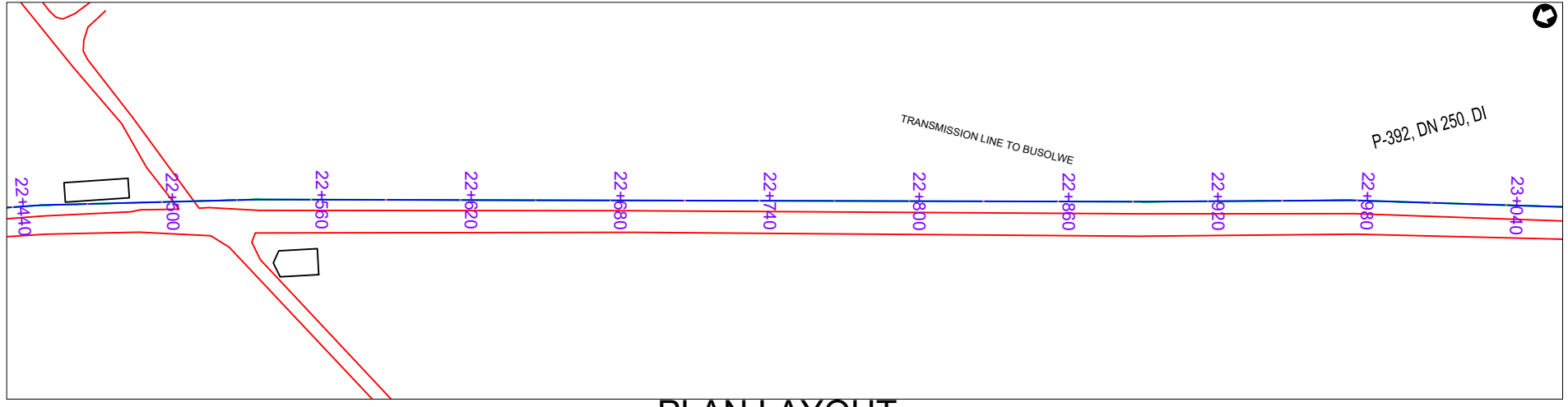
MINISTRY OF WATER AND ENVIRONMENT

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

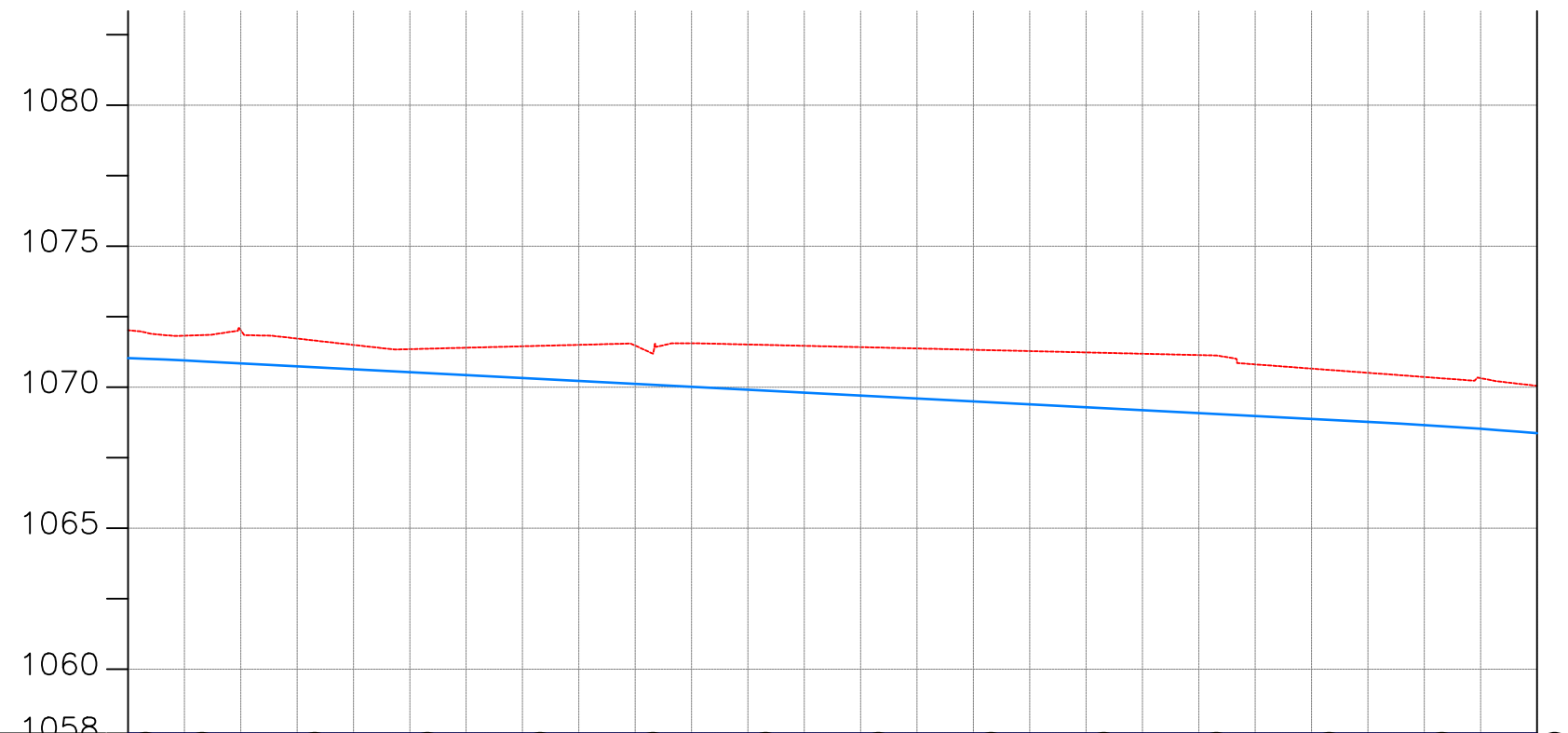
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 22+000.00 - 22+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 22+000.00 - 22+500.00)	
Sheet No.: 45	Format: A3



PLAN LAYOUT



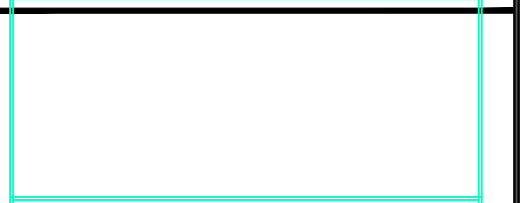
CHAINAGE	22+500	22+520	22+560	22+600	22+640	22+680	22+720	22+760	22+800	22+840	22+880	22+920	22+960	23+000												
GROUND LEVEL(m)	1072.020	1071.828	1072.021	1071.725	1071.500	1071.349	1071.601	1071.452	1071.503	1071.475	1071.555	1071.515	1071.468	1071.421	1071.374	1071.328	1071.281	1071.234	1071.187	1071.140	1070.809	1070.660	1070.511	1070.362	1070.320	
PIPE DETAILS	DN 250 DI PIPE PN16																									
PIPE INVERT(m)	1071.03	1070.95	1070.85	1070.74	1070.64	1070.53	1070.43	1070.33	1070.22	1070.12	1070.01	1069.91	1069.81	1069.70	1069.60	1069.50	1069.39	1069.29	1069.18	1069.08	1068.98	1068.87	1068.77	1068.66	1068.52	1068.37

AMENDMENTS		
No	Date	Revision

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

LEGEND

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



REPUBLIC OF UGANDA

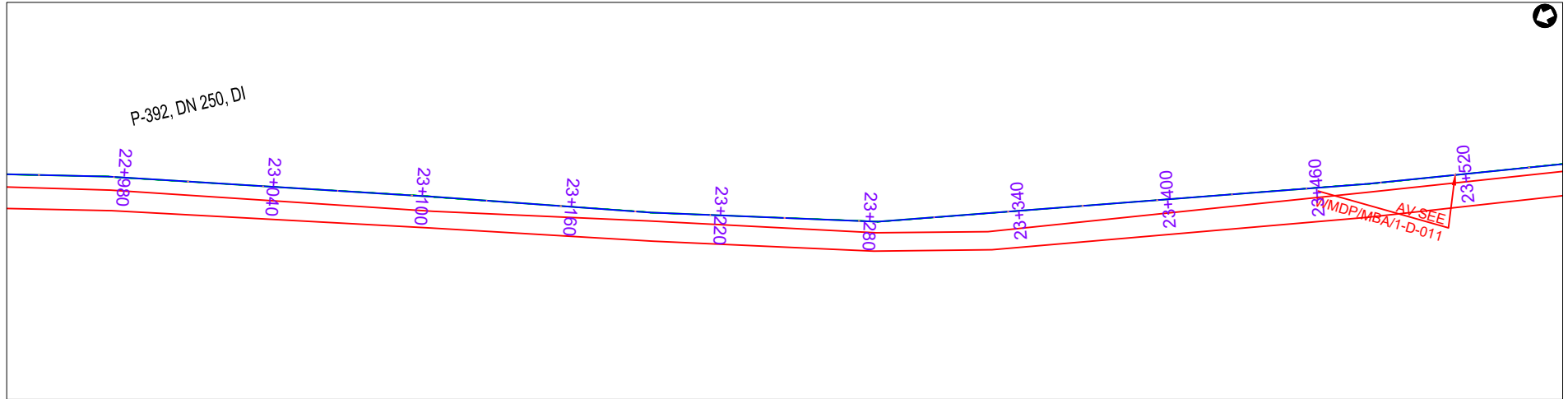
MINISTRY OF WATER AND ENVIRONMENT

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

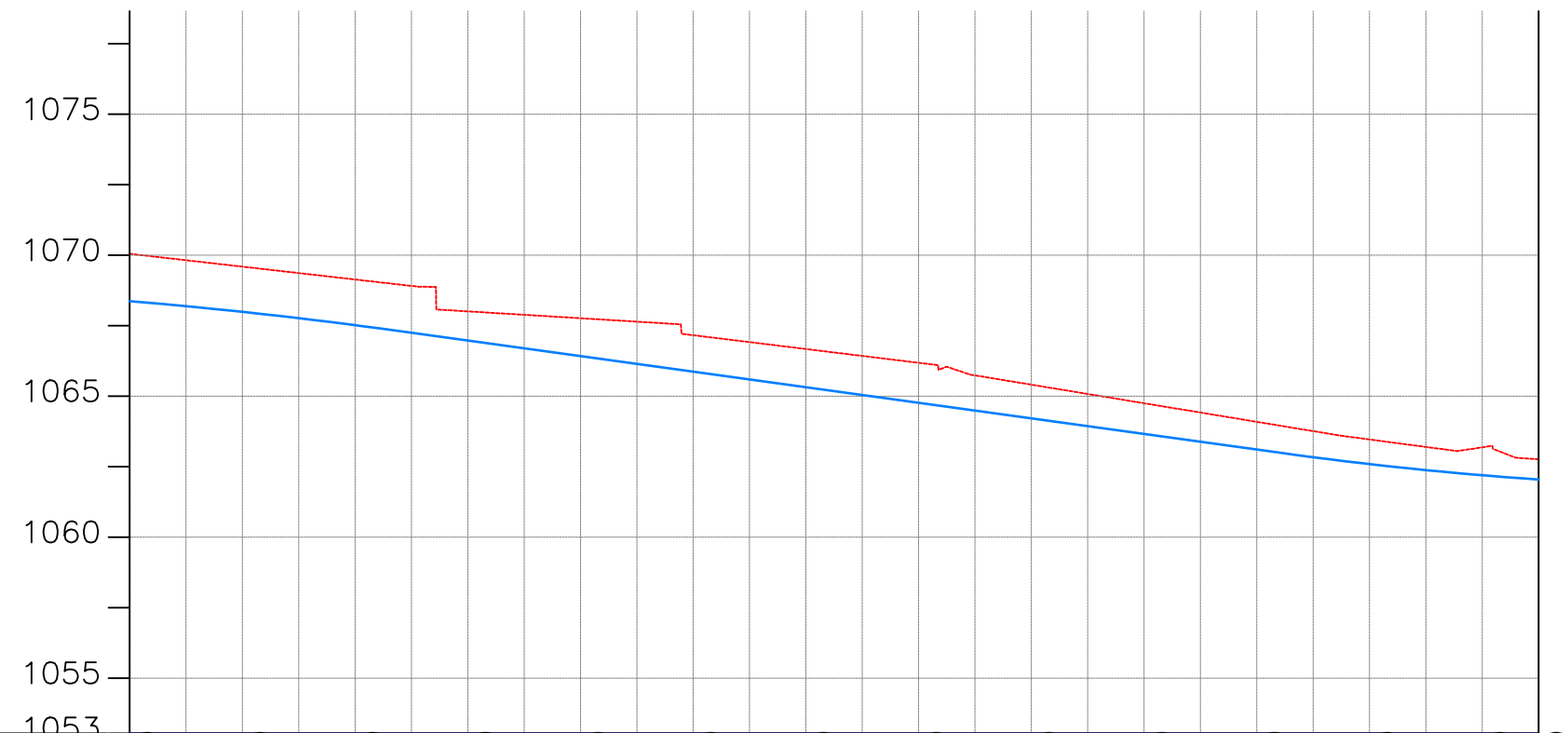
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 22+500.00 - 23+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 22+500.00 - 23+000.00)
Sheet No.: 46	Format: A3



PLAN LAYOUT



CHAINAGE	23+000		23+040		23+080		23+120		23+160		23+200		23+240		23+280		23+320		23+360		23+400		23+440		23+480	23+500		
GROUND LEVEL(m)	1070.049	1069.821	1069.593	1069.365	1069.138	1068.910	1068.007	1067.885	1067.764	1067.642	1067.161	1066.917	1066.672	1066.428	1066.183	1065.737	1065.407	1065.078	1064.748	1064.419	1064.089	1063.760	1063.463	1063.199	1063.185	1062.760		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1068.37	1068.19	1067.99	1067.76	1067.52	1067.25	1066.97	1066.70	1066.42	1066.14	1065.87	1065.59	1065.31	1065.04	1064.76	1064.49	1064.21	1063.93	1063.66	1063.38	1063.11	1062.83	1062.59	1062.38	1062.20	1062.04		

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

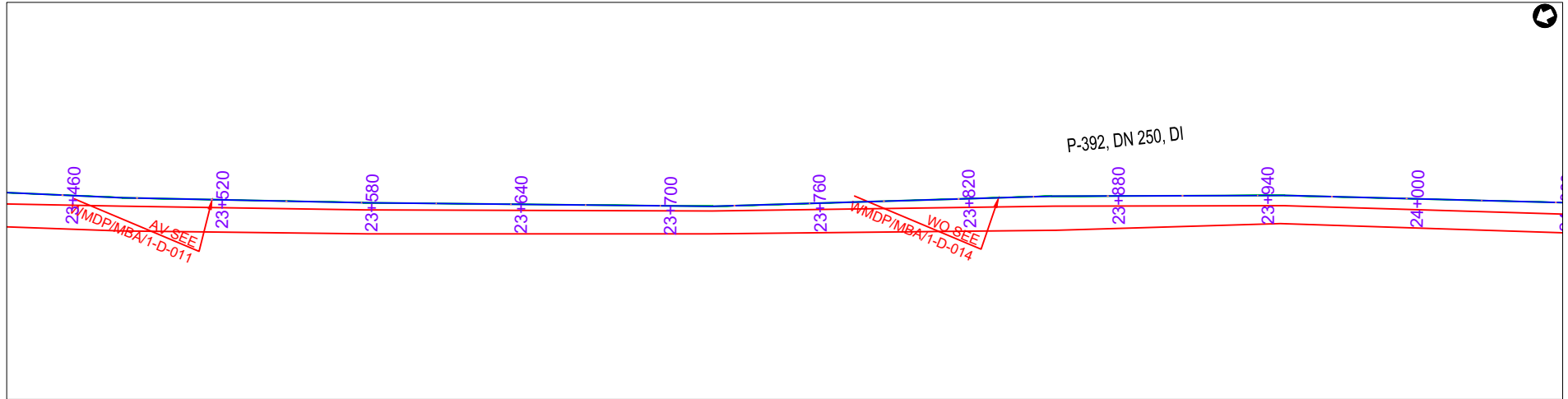
MINISTRY OF WATER AND ENVIRONMENT

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

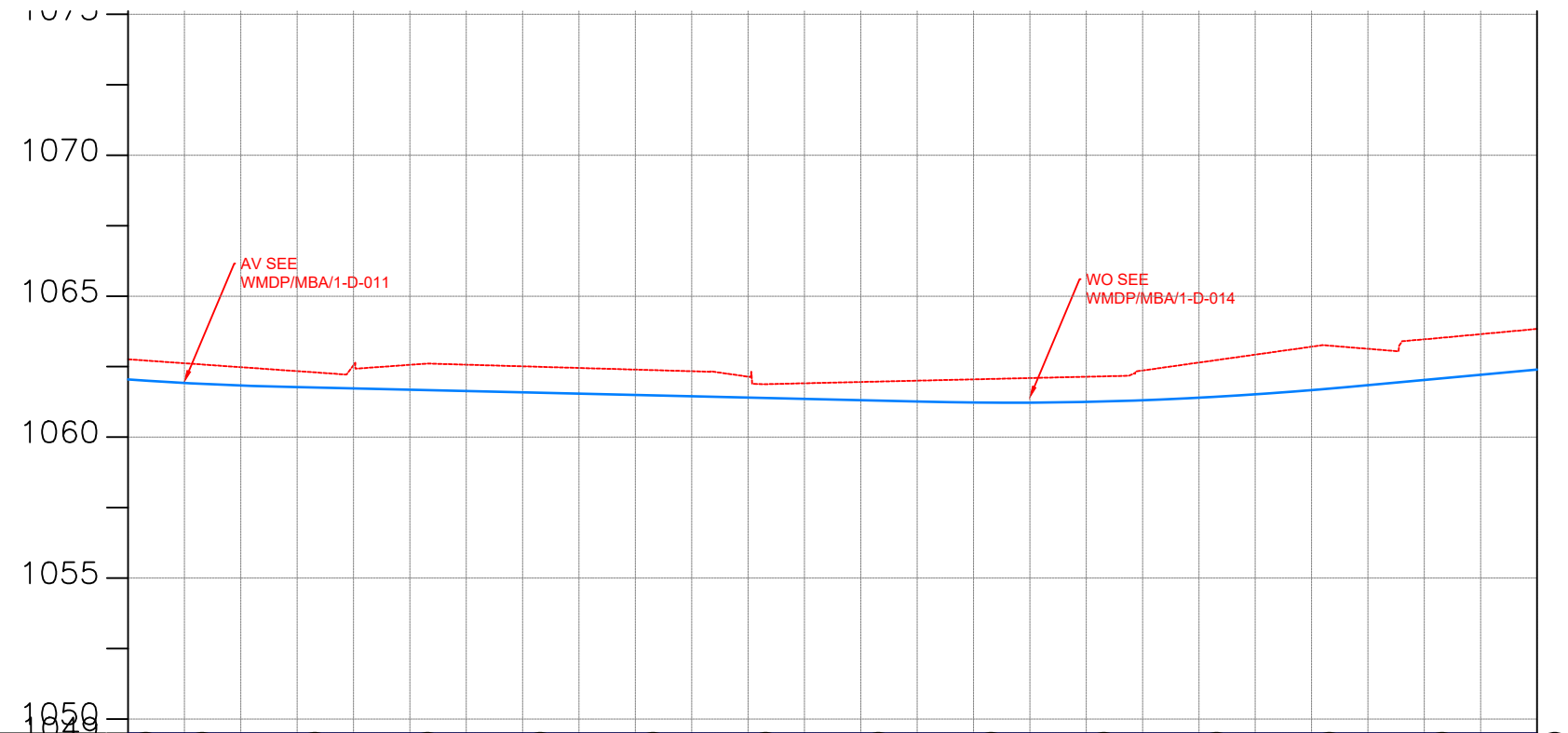
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 23+000.00 - 23+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 23+000.00 - 23+500.00)
Sheet No.: 47	Format: A3



PLAN LAYOUT



CHAINAGE	1062.760	23+500	1062.621	23+520	1062.481	1062.341	23+560	1062.555	1062.565	23+600	1062.570	1062.512	23+640	1062.454	1062.395	23+680	1062.337	1062.145	23+720	1061.910	1061.957	23+760	1062.003	1062.049	23+800	1062.096	1062.142	23+840	1062.364	1062.645	23+880	1062.926	1063.208	23+920	1063.133	1063.469	23+960	1063.653	1063.839	24+000	
GROUND LEVEL(m)																									DN 250 DI PIPE PN16																
PIPE DETAILS																									DN 250 DI PIPE PN16																
PIPE INVERT(m)	1062.04	1061.92	1061.83	1061.77	1061.73	1061.68	1061.63	1061.59	1061.54	1061.49	1061.45	1061.40	1061.35	1061.31	1061.26	1061.23	1061.22	1061.25	1061.31	1061.40	1061.52	1061.67	1061.85	1062.03	1062.21	1062.40															

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

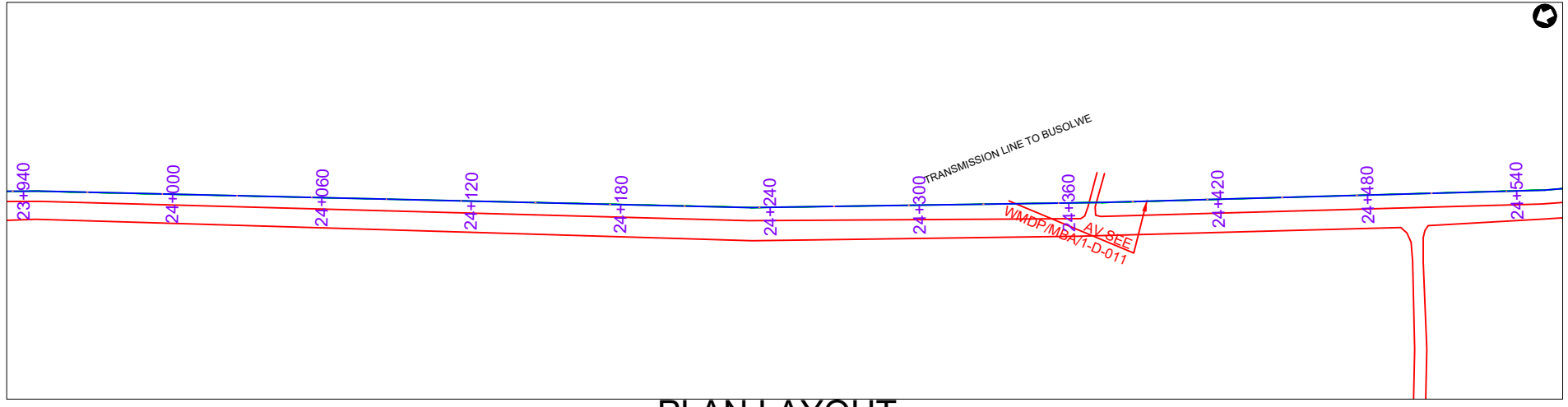
MINISTRY OF WATER AND ENVIRONMENT

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

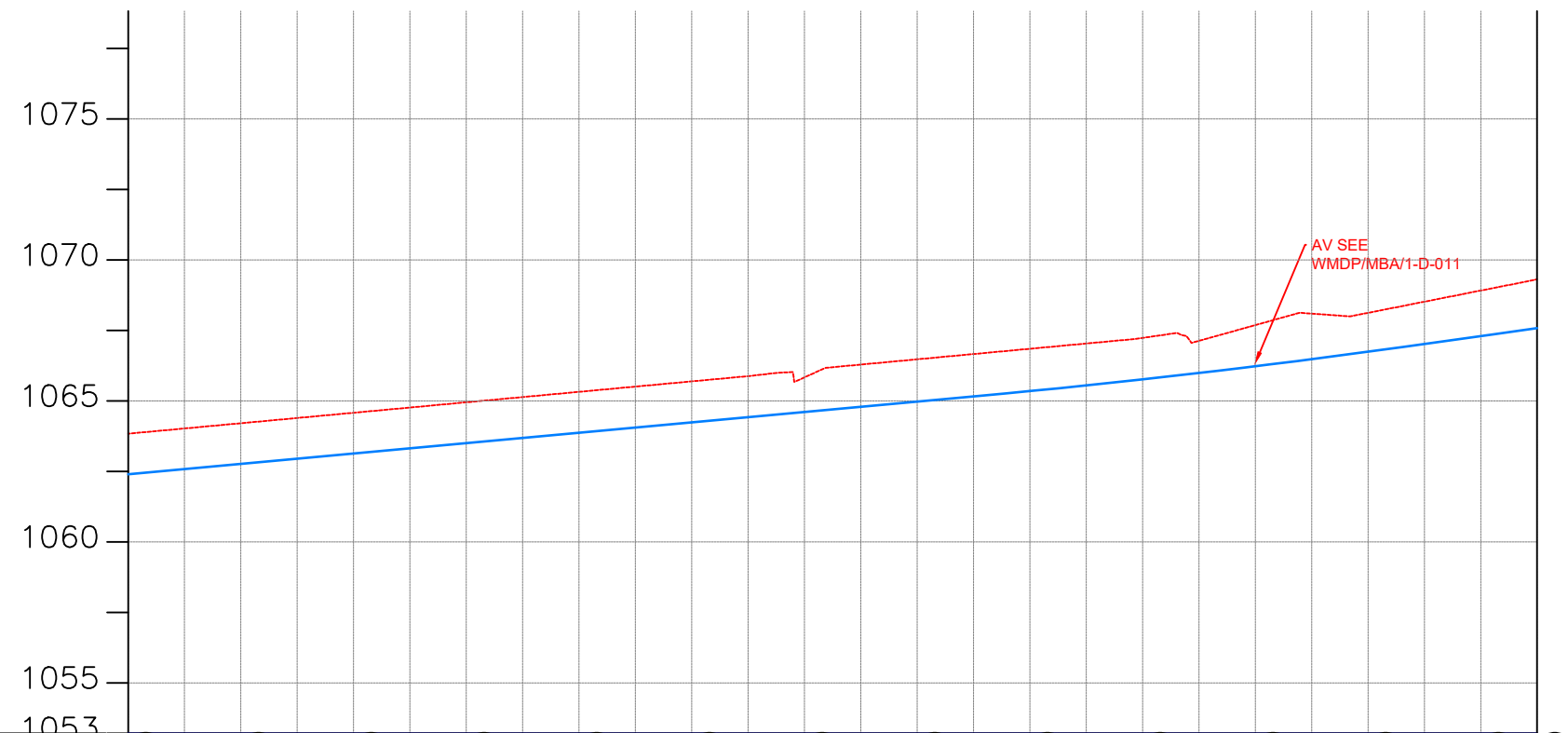


Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 23+500.00 - 24+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 23+500.00 - 24+000.00)
Sheet No.: 48	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
24+000	1063.839	DN 250 DI PIPE PN16	1062.40
	1064.024		1062.58
24+040	1064.210		1062.77
	1064.395		1062.95
24+080	1064.581		1063.14
	1064.767		1063.32
24+120	1064.952		1063.50
	1065.138		1063.69
24+160	1065.323		1063.87
	1065.509		1064.06
24+200	1065.695		1064.24
	1065.880		1064.42
24+240	1065.837		1064.61
	1066.291		1064.79
24+280	1066.477		1064.98
	1066.664		1065.16
24+320	1066.850		1065.35
	1067.037		1065.55
24+360	1067.237		1065.77
	1067.133		1065.99
24+400	1067.690	1066.23	
	1068.097	1066.48	
24+440	1068.124	1066.75	
	1068.520	1067.02	
24+480	1068.915	1067.30	
24+500	1069.311	1067.58	

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

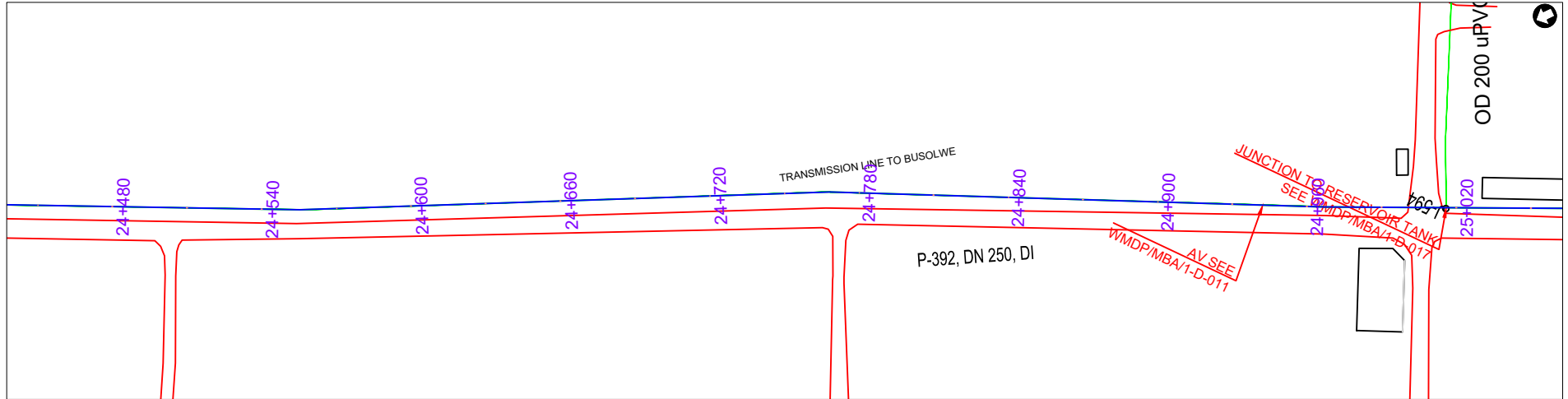
MINISTRY OF WATER AND ENVIRONMENT

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

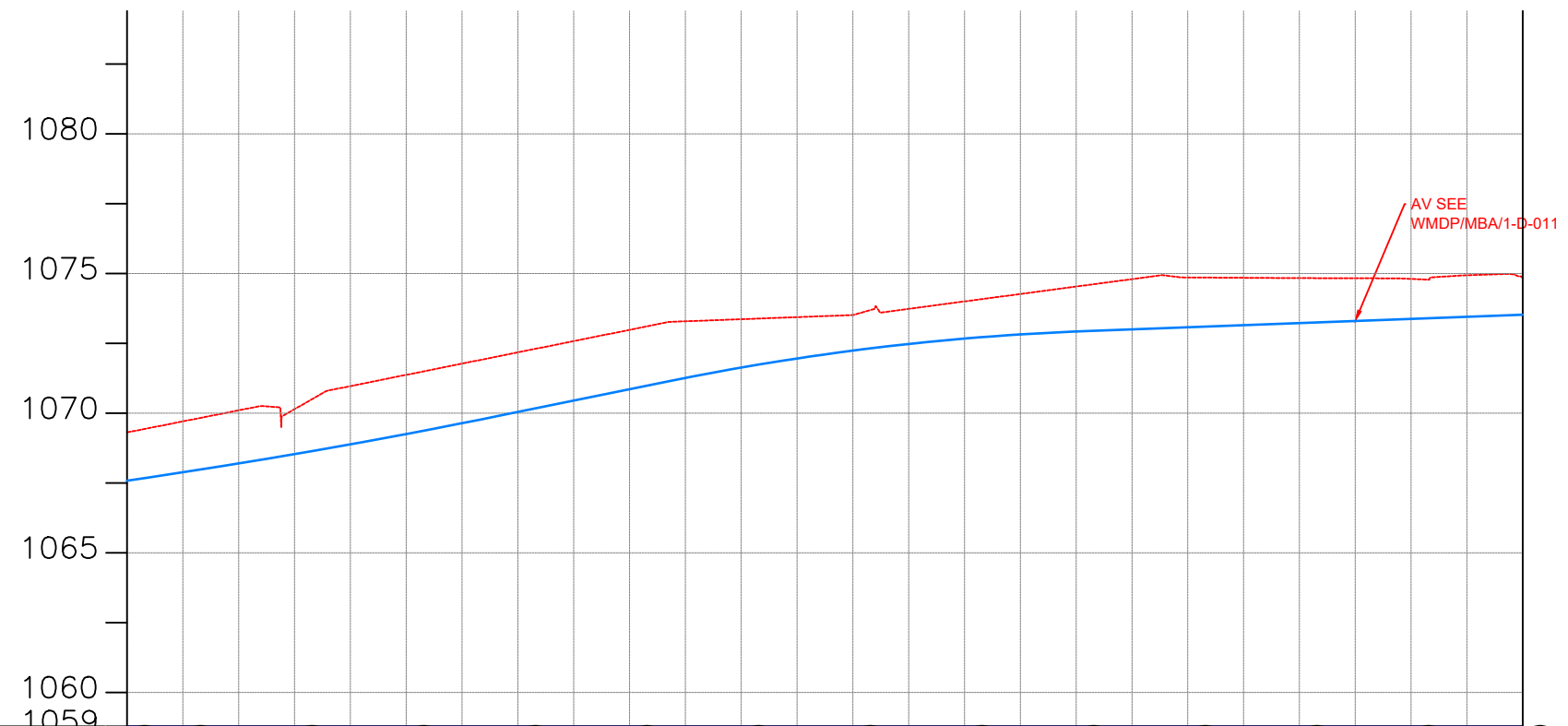
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 24+000.00 - 24+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 24+000.00 - 24+500.00)	
Sheet No.: 49	Format: A3



PLAN LAYOUT



CHAINAGE	24+500	24+520	24+560	24+600	24+640	24+680	24+720	24+760	24+800	24+840	24+880	24+920	24+960	25+000														
GROUND LEVEL(m)	1069.311	1069.706	1070.102	1070.143	1070.969	1071.372	1071.774	1072.177	1072.580	1072.983	1073.290	1073.364	1073.439	1073.513	1073.735	1074.001	1074.268	1074.534	1074.800	1074.859	1074.847	1074.836	1074.831	1074.807	1074.938	1074.838		
PIPE DETAILS	DN 250 DI PIPE PN16																											
PIPE INVERT(m)	1067.58	1067.88	1068.20	1068.53	1068.89	1069.25	1069.64	1070.04	1070.45	1070.86	1071.26	1071.63	1071.96	1072.24	1072.48	1072.67	1072.82	1072.92	1073.00	1073.07	1073.15	1073.22	1073.30	1073.37	1073.45	1073.52		

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



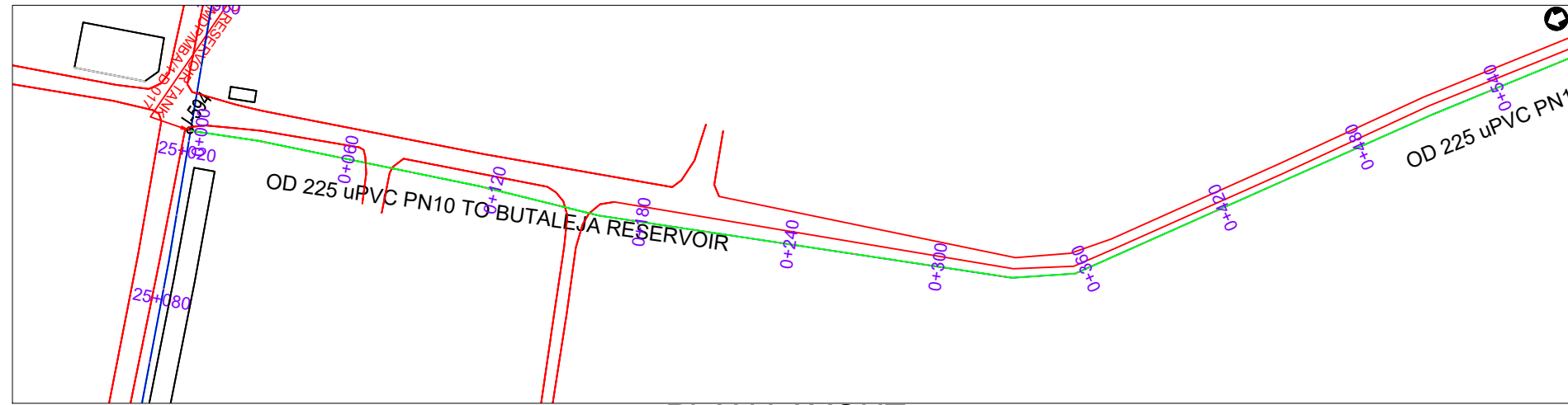
MINISTRY OF WATER AND ENVIRONMENT

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

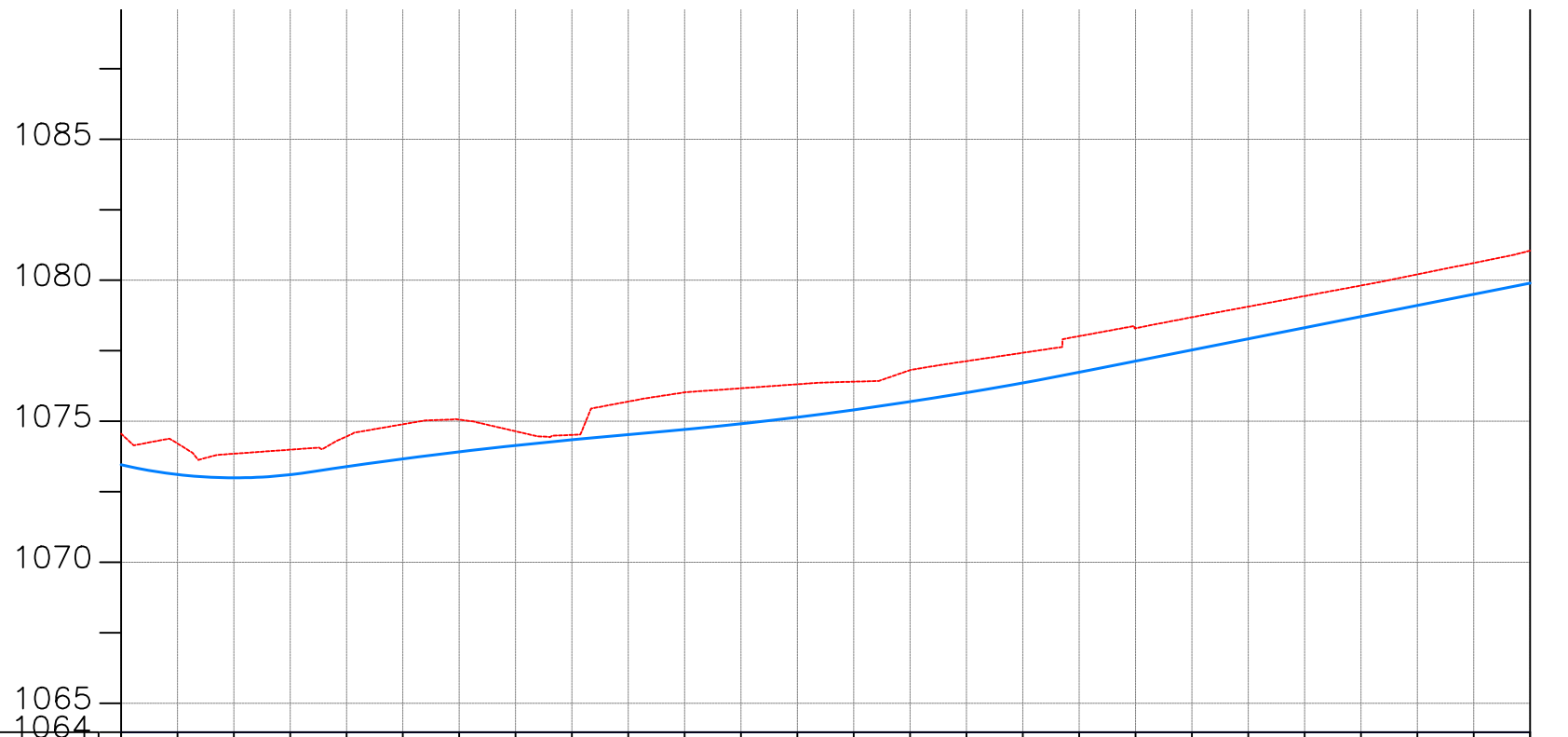
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 24+500.00 - 25+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 24+500.00 - 25+000.00)	Sheet No.: 50
Format: A3	



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
0+000	1074.558	OD 225 uPVC PN10	1073.46
0+040	1074.213		1073.11
0+080	1073.849		1073.00
0+120	1073.992		1073.11
0+160	1074.461		1073.39
0+200	1074.894		1073.67
0+240	1075.057		1073.92
0+280	1074.645		1074.14
0+320	1074.516		1074.34
0+360	1075.699		1074.53
0+400	1076.023		1074.71
0+440	1076.170		1074.91
0+480	1076.312		1075.14
0+500	1076.403		1075.41
	1076.815		1075.70
	1077.132		1076.01
	1077.428		1076.36
	1078.018		1076.74
	1078.296		1077.13
	1078.688		1077.53
	1079.065	1077.92	
	1079.439	1078.32	
	1079.812	1078.71	
	1080.207	1079.11	
	1080.612	1079.50	
	1081.048	1079.90	

AMENDMENTS

No	Date	Revision

NOTES

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

LEGEND

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

REPUBLIC OF UGANDA



MINISTRY OF WATER AND ENVIRONMENT

PROJECT:

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

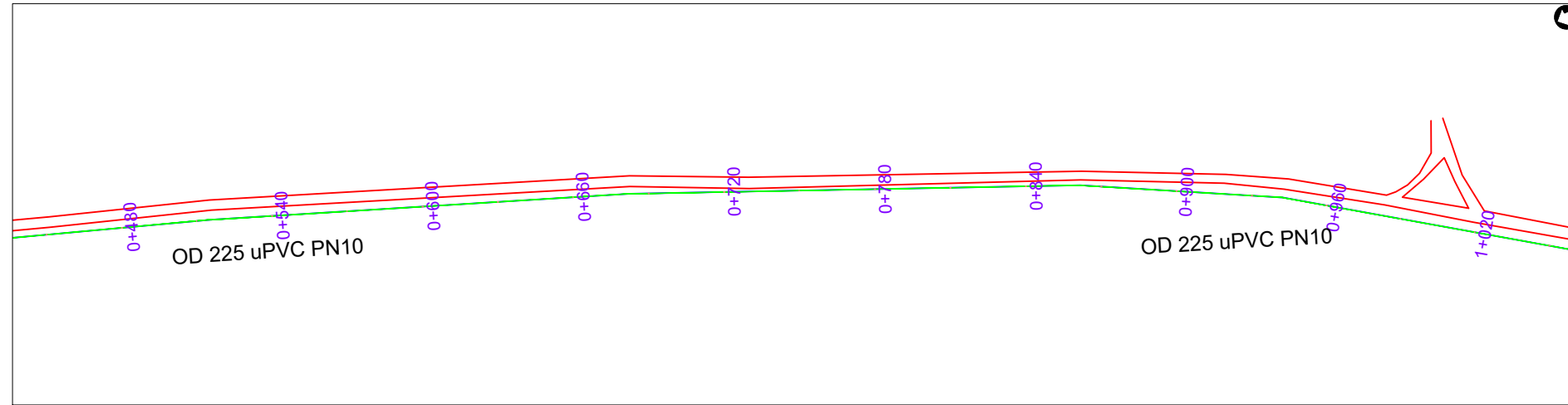
CONSULTANT:



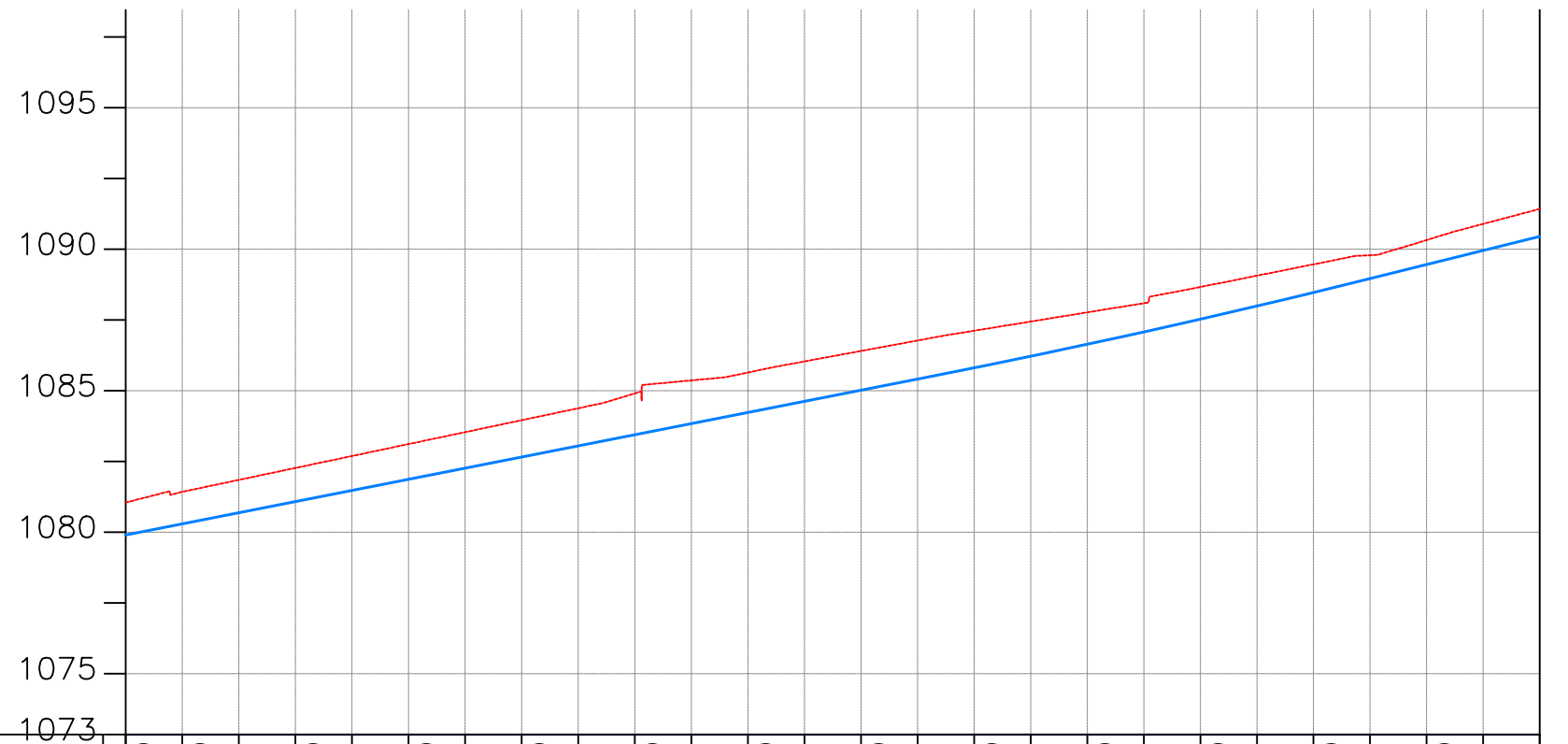
Drawing Title:

TRANSMISSION LINE TO BUTALEJA RESERVOIR

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: August 2021
Scale: As Indicated	Drawing No.: IWM/MP/BA/TO_BUTALEJA RESERVOIR (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)	1081.048	1081.425	1081.847	1082.269	1082.691	1083.113	1083.535	1083.956	1084.378	1084.901	1085.362	1085.642	1086.034	1086.403	1086.773	1087.119	1087.443	1087.767	1088.091	1088.664	1089.065	1089.465	1089.786	1090.322	1090.893	1091.423			
PIPE DETAILS	OD 225 uPVC PN10																												
PIPE INVERT(m)	1079.90	1080.29	1080.69	1081.08	1081.48	1081.87	1082.26	1082.66	1083.05	1083.44	1083.84	1084.23	1084.62	1085.02	1085.41	1085.81	1086.22	1086.64	1087.08	1087.53	1087.99	1088.47	1088.96	1089.46	1089.95	1090.45			

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 BUTALEJA AND BUSOLWE

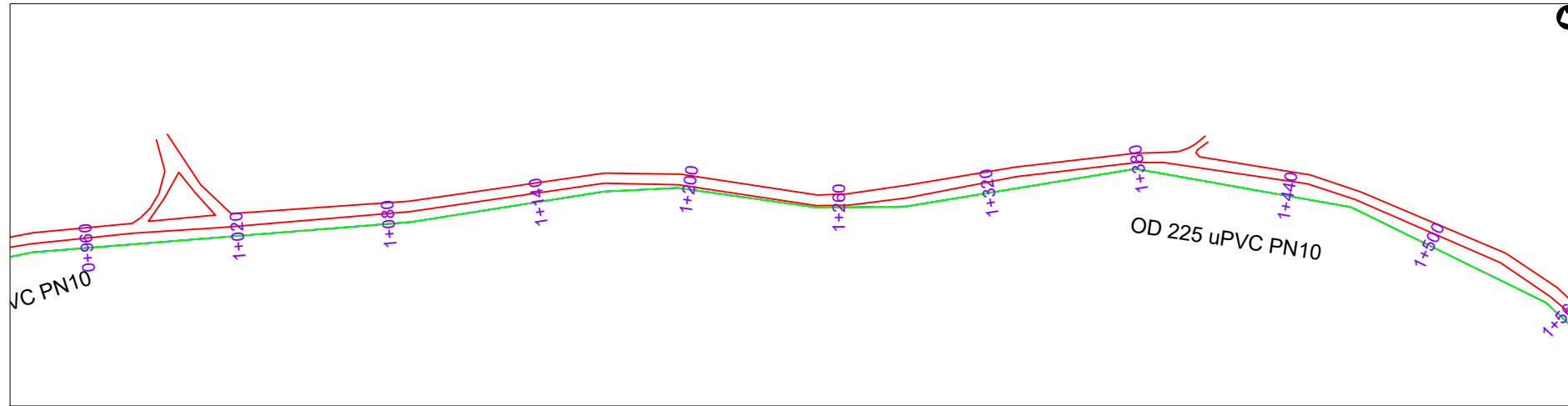
CONSULTANT:



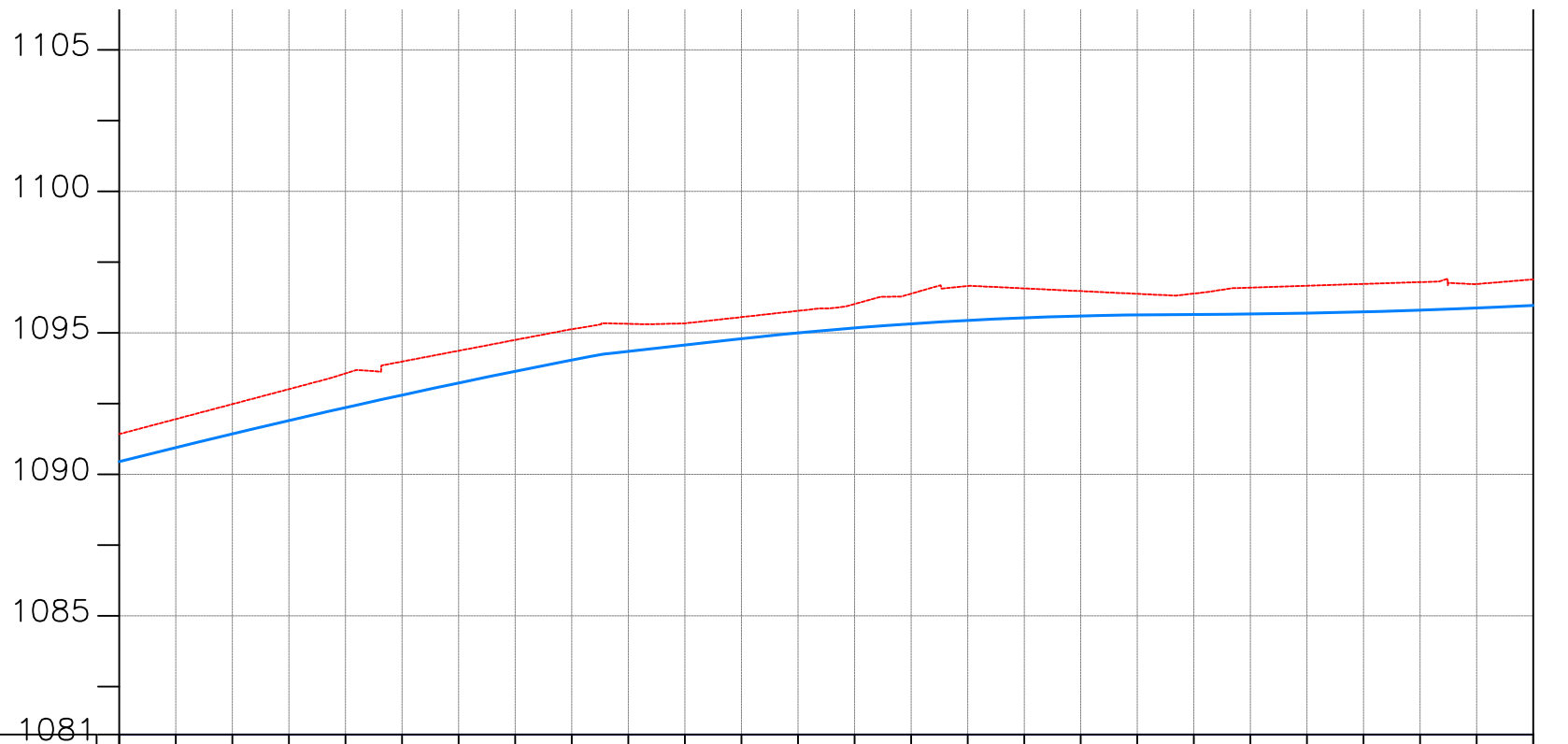
Drawing Title:

TRANSMISSION LINE TO BUTALEJA RESERVOIR

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: August 2021
Scale: As Indicated	Drawing No.: IWM/DP/MB/A/TO_BUTALEJA RESERVOIR (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)	1091.423	1091.952	1092.482	1093.011	1093.568	1093.986	1094.368	1094.750	1095.129	1095.319	1095.336	1095.557	1095.778	1096.021	1096.383	1096.658	1096.571	1096.475	1096.379	1096.388	1096.600	1096.664	1096.729	1096.794	1096.725	1096.890
PIPE DETAILS	OD 225 uPVC PN10																									
PIPE INVERT(m)	1090.45	1090.94	1091.43	1091.90	1092.36	1092.80	1093.23	1093.64	1094.04	1094.35	1094.57	1094.79	1095.00	1095.17	1095.32	1095.44	1095.53	1095.60	1095.63	1095.65	1095.67	1095.70	1095.74	1095.80	1095.88	1095.97

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 BUTALEJA AND BUSOLWE

CONSULTANT:

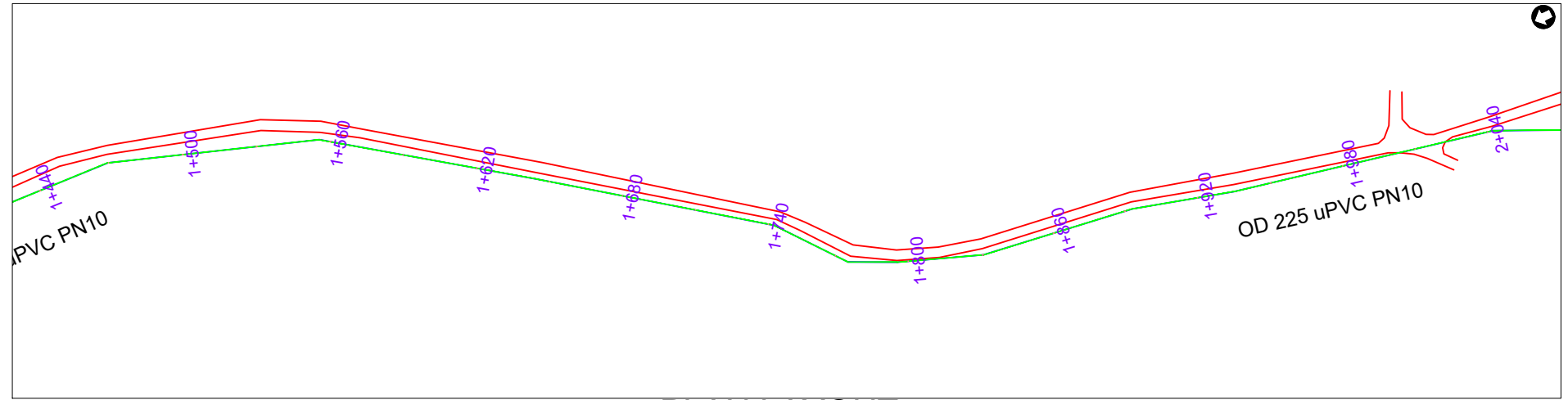

Saman Corp.



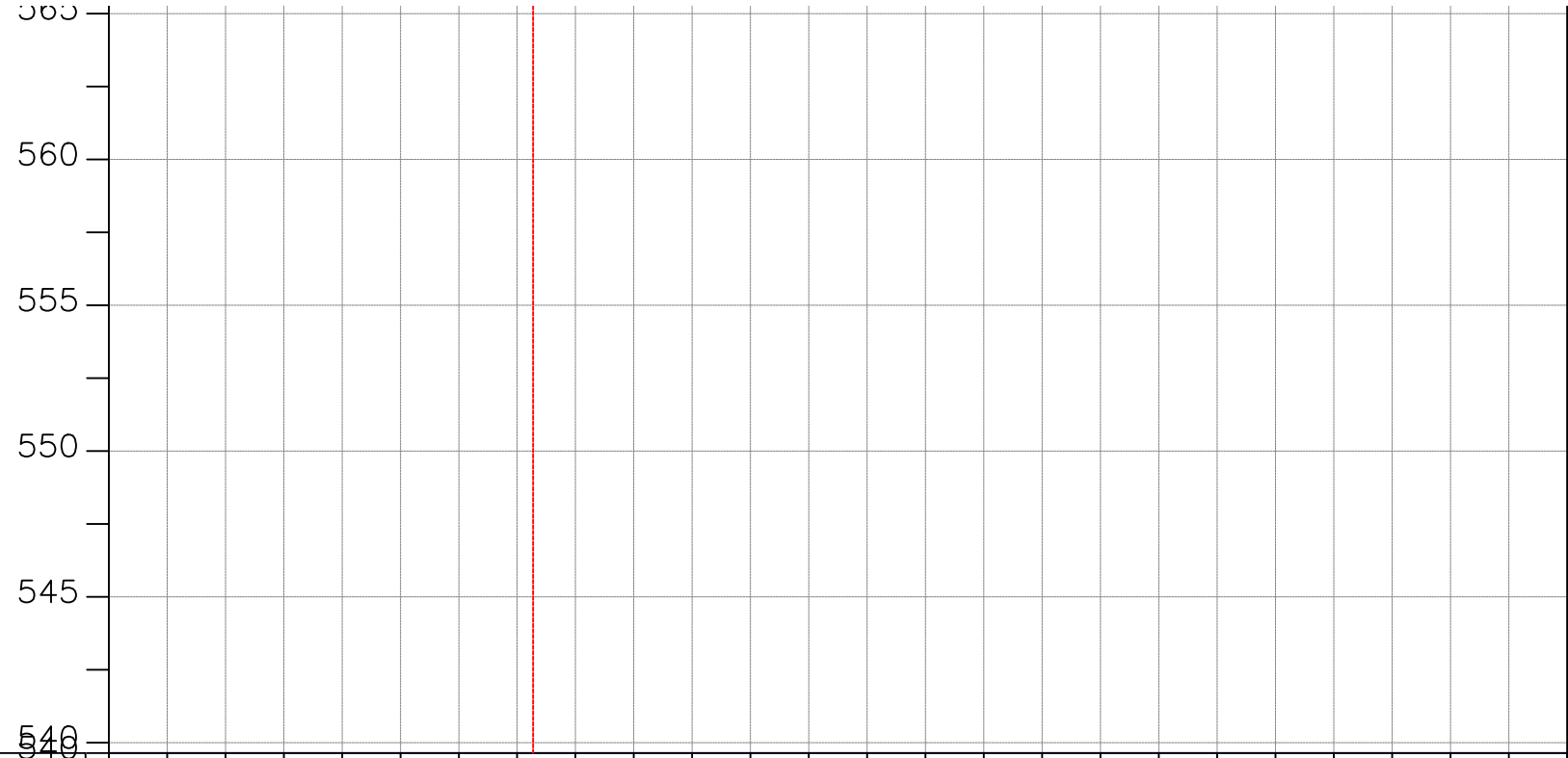


Drawing Title:
TRANSMISSION LINE TO BUTALEJA RESERVOIR

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: August 2021
Scale: As Indicated	Date: August 2021
Drawing No.: IWM/P/BA/TO_ BUTALEJA RESERVOIR (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)	1096.890	1097.055	1097.220	1097.440	1097.737	1098.034	1098.331	1098.563	1098.978	1099.411	1099.844	1100.276	1100.665	1100.726	1101.106	1101.590	1102.092	1102.450	1102.699	1103.117	1103.447	1103.755	1104.156	1104.527	1104.662	1104.912		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1095.97	1096.08	1096.20	1096.37	1096.63	1096.92	1097.23	1097.56	1097.91	1098.27	1098.66	1099.05	1099.45	1099.84	1100.22	1100.59	1100.94	1101.28	1101.60	1101.92	1102.22	1102.52	1102.82	1103.13	1103.45	1103.78		

AMENDMENTS		
No	Date	Revision

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

LEGEND

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

REPUBLIC OF UGANDA

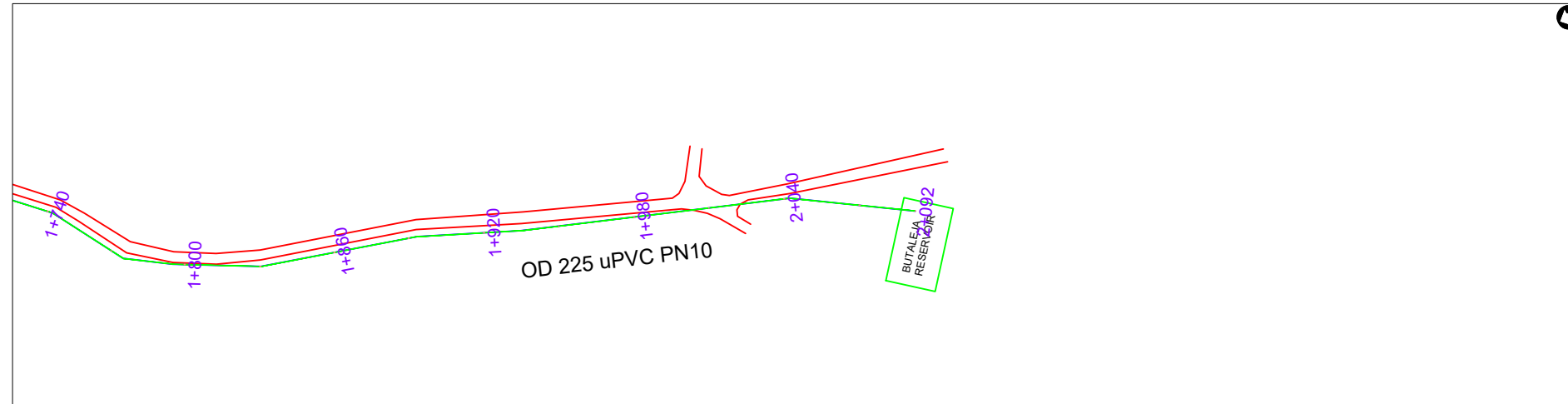
MINISTRY OF WATER AND ENVIRONMENT

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

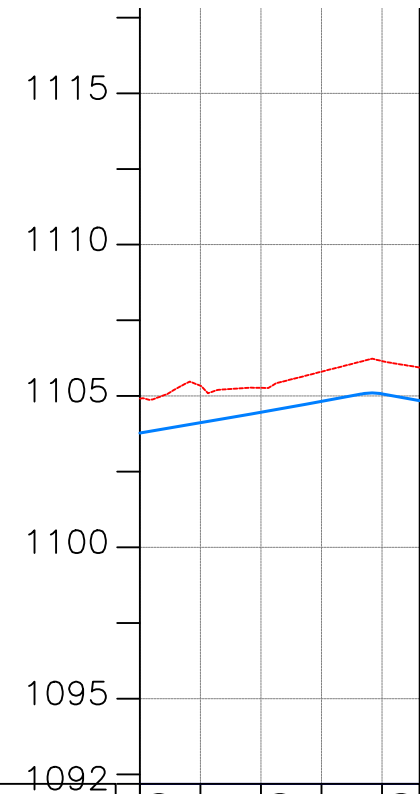
CONSULTANT:

Drawing Title:
TRANSMISSION LINE TO BUTALEJA RESERVOIR

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: August 2021
Scale: As Indicated	Drawing No.: IWM/MP/BA/TO_BUTALEJA RESERVOIR (CH 1+500.00 - 2+000.00)
Sheet No.: 4	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
2+000	1104.912	OD 225 uPVC PN10	1103.78
	1105.339		1104.12
2+040	1105.269		1104.47
	1105.804		1104.82
2+080	1106.154		1105.07
2+092	1105.943		1104.84

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 BUTALEJA AND BUSOLWE

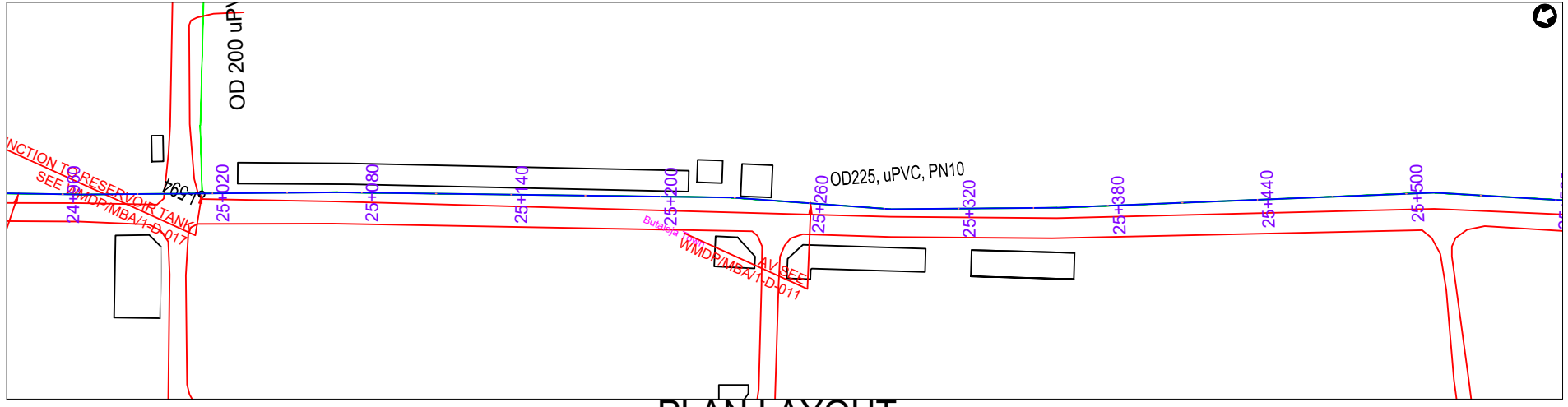
CONSULTANT:



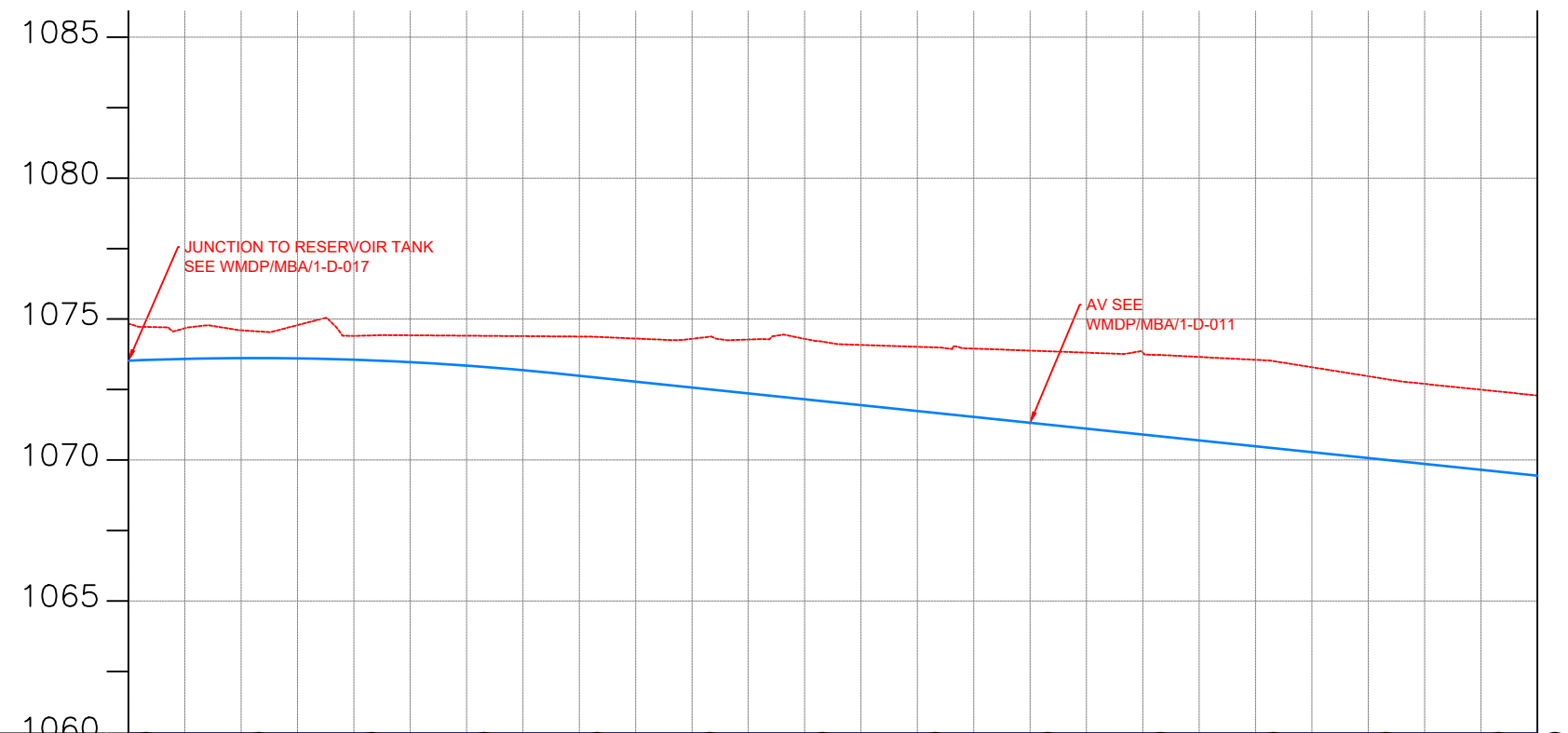
Drawing Title:

TRANSMISSION LINE TO BUTALEJA RESERVOIR

Drawn by : Andrew Turyakira	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: August 2021
Scale: As Indicated	Drawing No.: IWM/PMBA/TO_BUTALEJA RESERVOIR (CH 2+000.00 - 2+092.44)
Sheet No.: 5	Format: A3



PLAN LAYOUT



CHAINAGE	1074.838	1074.672	1074.601	1074.784	1074.402	1074.424	1074.409	1074.394	1074.380	1074.309	1074.301	1074.274	1074.300	1074.084	1074.016	1073.953	1073.881	1073.809	1073.810	1073.657	1073.554	1073.292	1072.974	1072.700	1072.495	1072.290		
GROUND LEVEL(m)	25+000		25+040		25+080		25+120		25+160		25+200		25+240		25+280		25+320		25+360		25+400		25+440		25+480	25+500		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1073.52	1073.59	1073.62	1073.61	1073.56	1073.47	1073.35	1073.19	1072.99	1072.78	1072.57	1072.36	1072.16	1071.95	1071.74	1071.53	1071.32	1071.11	1070.90	1070.70	1070.49	1070.28	1070.07	1069.86	1069.65	1069.44		

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

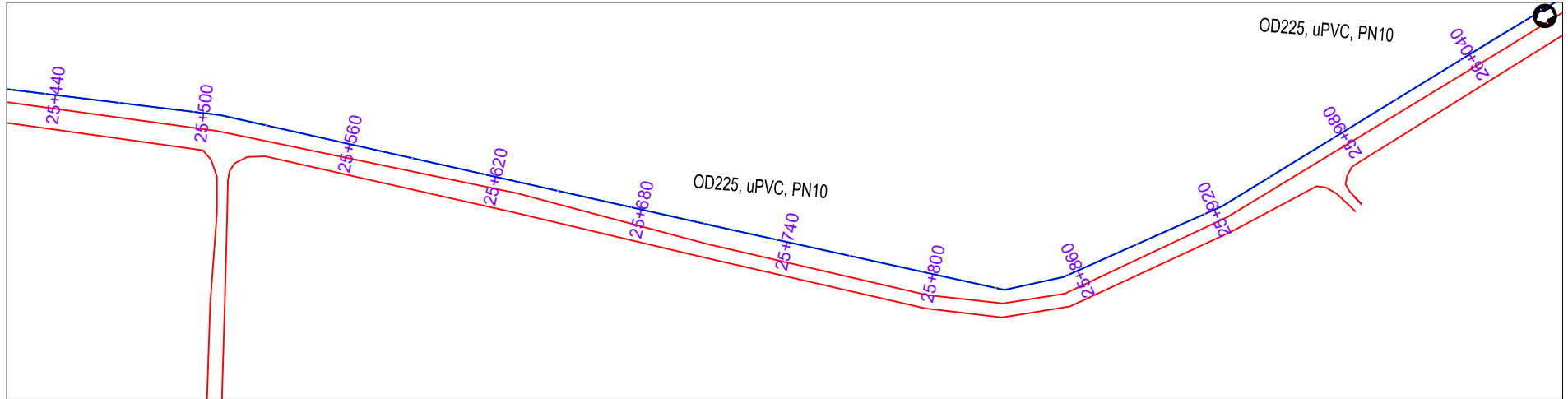
MINISTRY OF WATER AND ENVIRONMENT

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

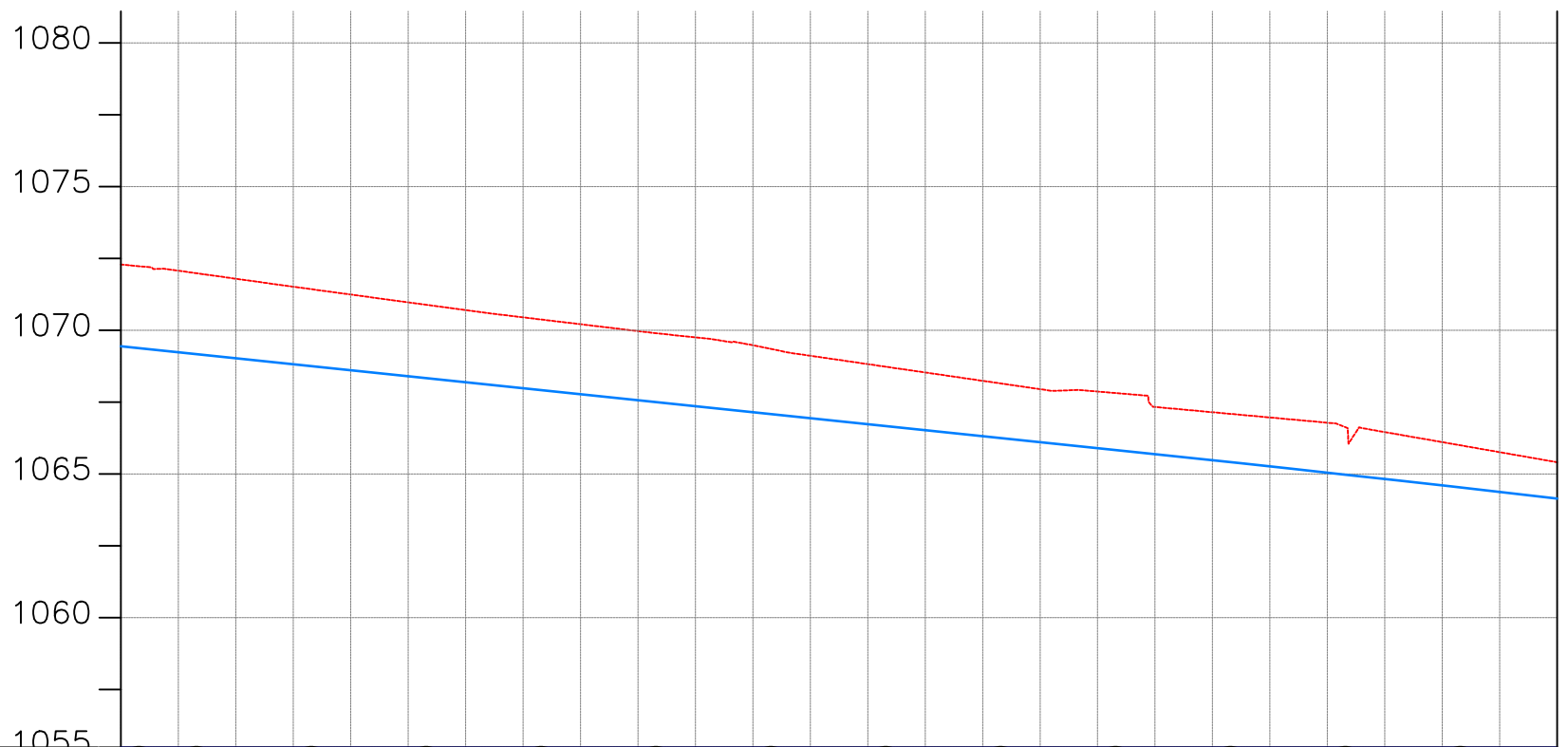
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 25+000.00 - 25+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 25+000.00 - 25+500.00)
Sheet No.: 51	Format: A3



PLAN LAYOUT



CHAINAGE	25+500	25+520		25+560		25+600		25+640		25+680		25+720		25+760		25+800		25+840		25+880		25+920		25+960	26+000			
GROUND LEVEL(m)	1072.290	1072.074	1071.795	1071.516	1071.245	1070.974	1070.703	1070.451	1070.212	1069.972	1069.754	1069.480	1069.114	1068.824	1068.533	1068.242	1067.951	1067.870	1067.332	1067.149	1066.967	1066.784	1066.458	1066.108	1065.759	1065.409		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1069.44	1069.24	1069.03	1068.82	1068.61	1068.40	1068.19	1067.98	1067.78	1067.57	1067.36	1067.15	1066.94	1066.73	1066.52	1066.32	1066.11	1065.90	1065.69	1065.48	1065.26	1065.05	1064.83	1064.60	1064.37	1064.14		

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

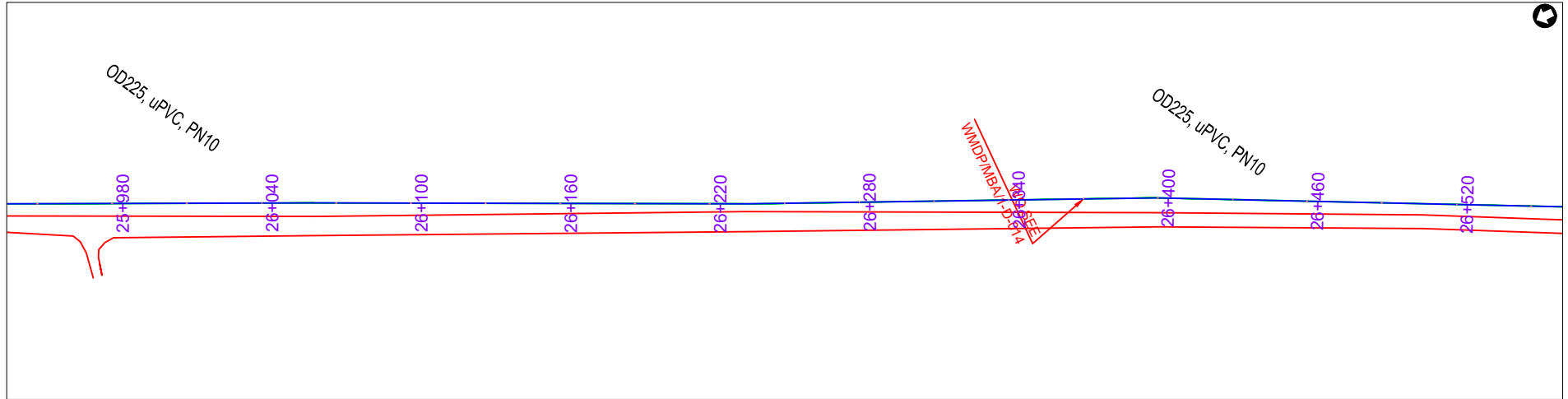
MINISTRY OF WATER AND ENVIRONMENT

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

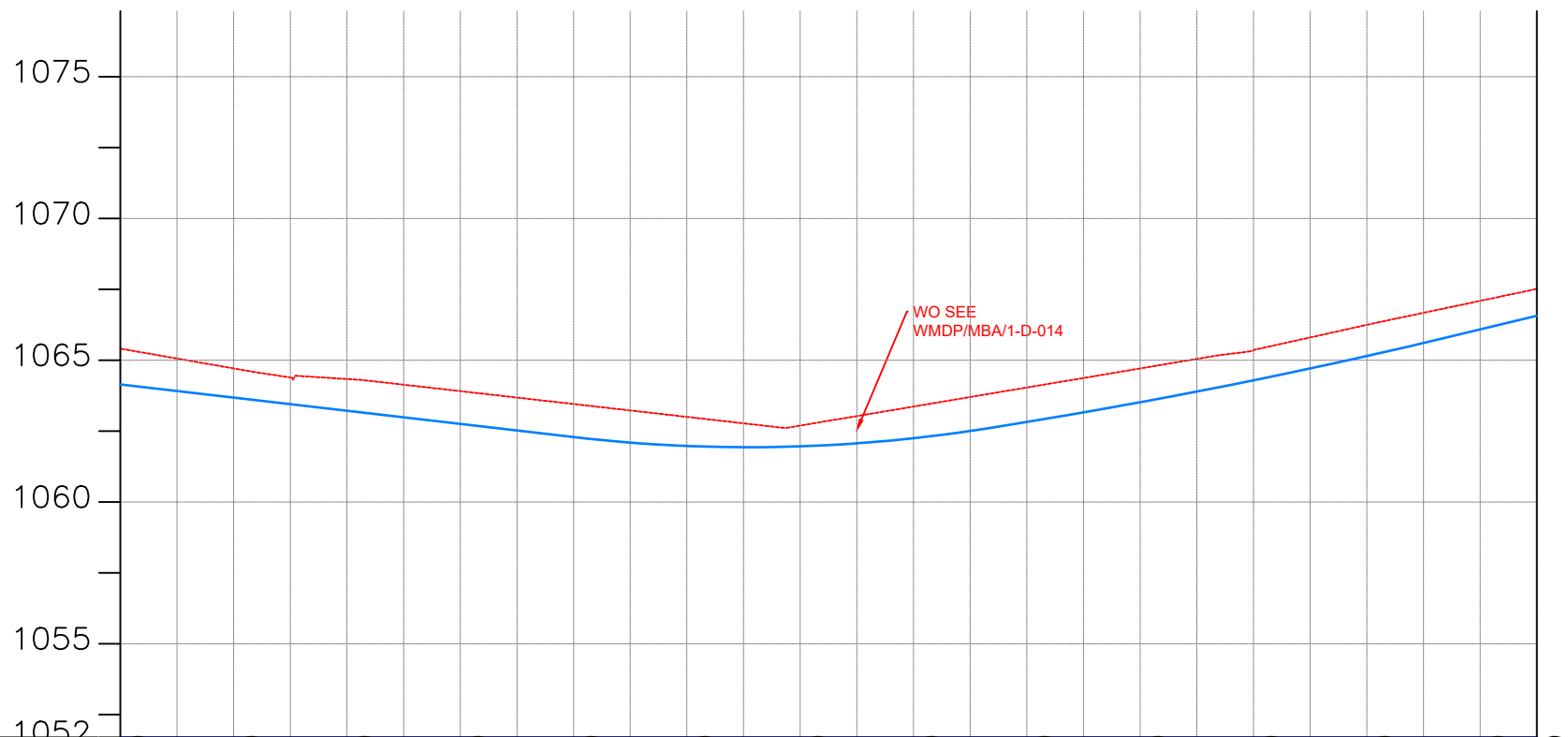
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 25+500.00 - 26+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 25+500.00 - 26+000.00)	Sheet No.: 52
Format: A3	



PLAN LAYOUT



CHAINAGE	26+000		26+040		26+080		26+120		26+160		26+200		26+240		26+280		26+320		26+360		26+400		26+440		26+480	26+500		
GROUND LEVEL(m)	1065.409	1065.060	1064.710	1064.392	1064.337	1064.137	1063.910	1063.683	1063.455	1063.228	1063.001	1062.774	1062.693	1063.029	1063.366	1063.702	1064.038	1064.374	1064.710	1065.046	1065.353	1065.803	1066.247	1066.672	1067.094	1067.516		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1064.14	1063.91	1063.68	1063.45	1063.22	1062.98	1062.75	1062.52	1062.29	1062.09	1061.98	1061.93	1061.96	1062.07	1062.25	1062.50	1062.83	1063.16	1063.52	1063.89	1064.29	1064.71	1065.15	1065.61	1066.09	1066.57		

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

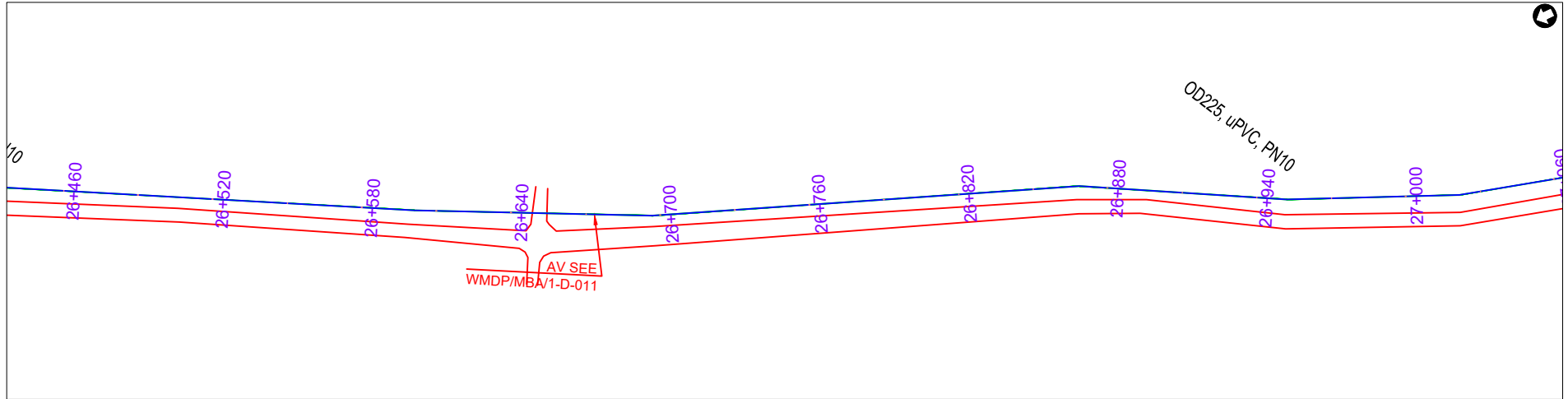
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

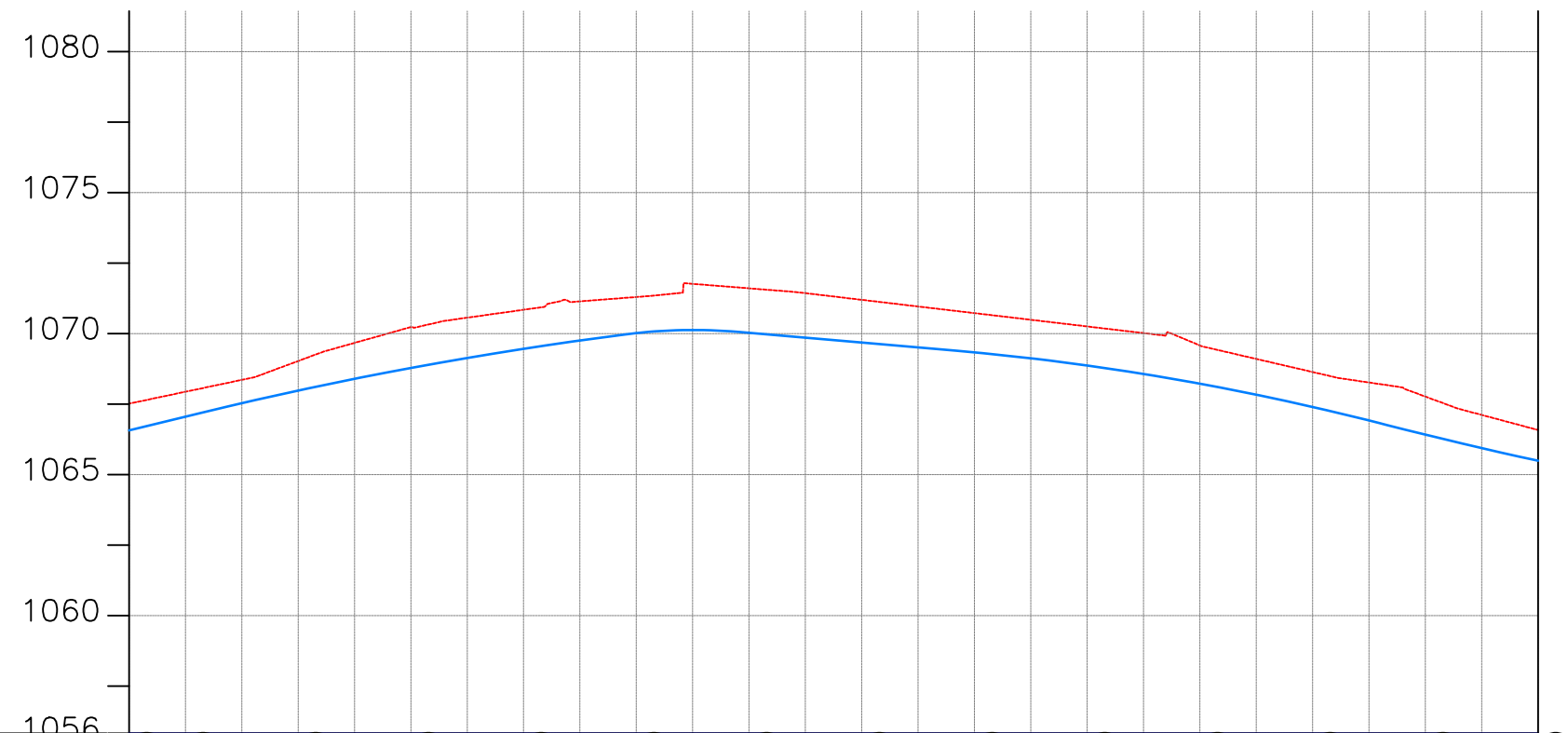



Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 26+000.00 - 26+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 26+000.00 - 26+500.00)	Sheet No.: 53
Format: A3	



PLAN LAYOUT



CHAINAGE	26+500	26+520	26+540	26+560	26+580	26+600	26+620	26+640	26+660	26+680	26+700	26+720	26+740	26+760	26+780	26+800	26+820	26+840	26+860	26+880	26+900	26+920	26+940	26+960	27+000			
GROUND LEVEL(m)	1067.516	1067.937	1068.359	1069.026	1069.670	1070.231	1070.564	1070.845	1071.143	1071.298	1071.764	1071.606	1071.433	1071.197	1070.962	1070.726	1070.490	1070.254	1070.018	1069.579	1069.102	1068.637	1068.266	1067.767	1067.115	1066.581		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1066.57	1067.06	1067.53	1067.98	1068.40	1068.78	1069.14	1069.46	1069.76	1070.02	1070.13	1070.03	1069.85	1069.68	1069.51	1069.33	1069.12	1068.87	1068.57	1068.22	1067.83	1067.40	1066.92	1066.42	1065.94	1065.49		

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

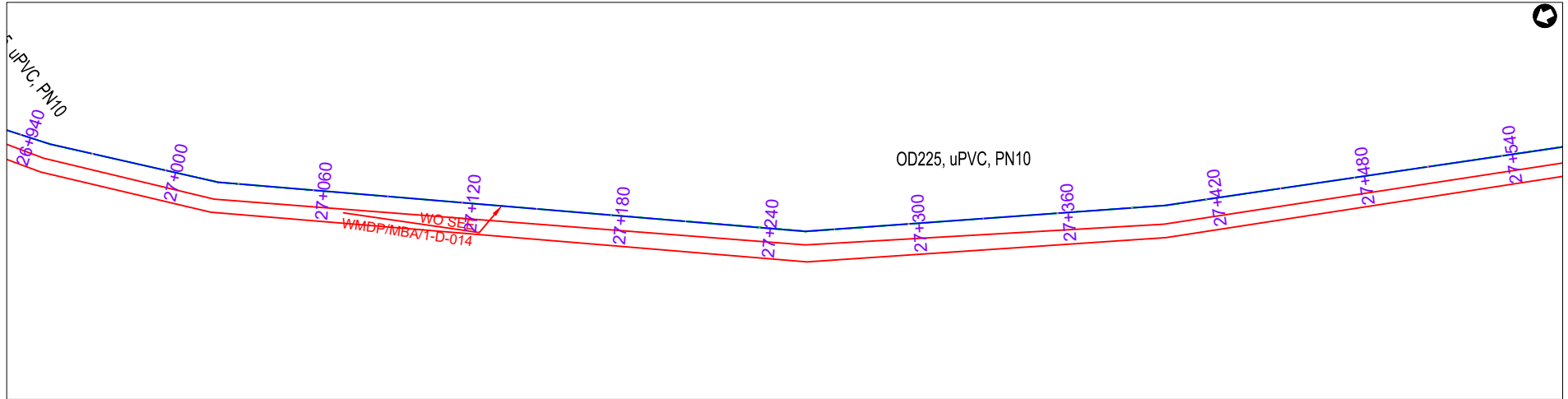
PROJECT:
CONSTRUCTION WORKS FOR WATER SUPPLY AND SANITATION SYSTEM IN SMALL TOWNS OF BUTALEJA AND BUSOLWE

CONSULTANT:

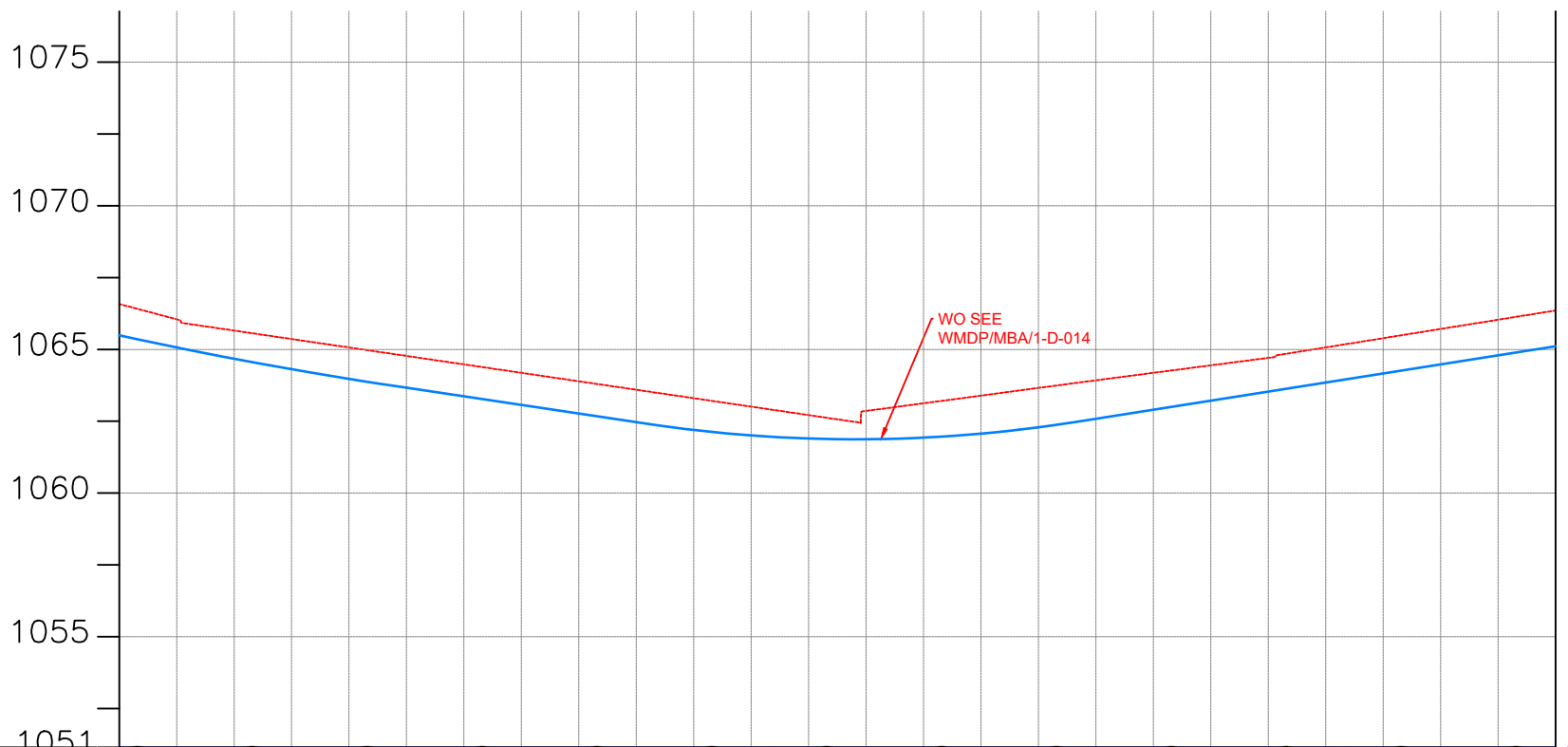



Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 26+500.00 - 27+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 26+500.00 - 27+000.00)	Sheet No.: 54
Format: A3	



PLAN LAYOUT



CHAINAGE	27+000		27+040		27+080		27+120		27+160		27+200		27+240		27+280		27+320		27+360		27+400		27+440		27+480	27+500		
GROUND LEVEL(m)	1066.581	1066.047	1065.656	1065.362	1065.067	1064.773	1064.479	1064.185	1063.891	1063.597	1063.303	1063.009	1062.715	1062.859	1063.125	1063.392	1063.659	1063.925	1064.185	1064.446	1064.706	1065.069	1065.391	1065.712	1066.033	1066.354		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1065.49	1065.07	1064.68	1064.31	1063.97	1063.67	1063.37	1063.07	1062.77	1062.47	1062.20	1062.01	1061.90	1061.87	1061.93	1062.07	1062.29	1062.59	1062.90	1063.22	1063.53	1063.85	1064.16	1064.48	1064.80	1065.11		

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

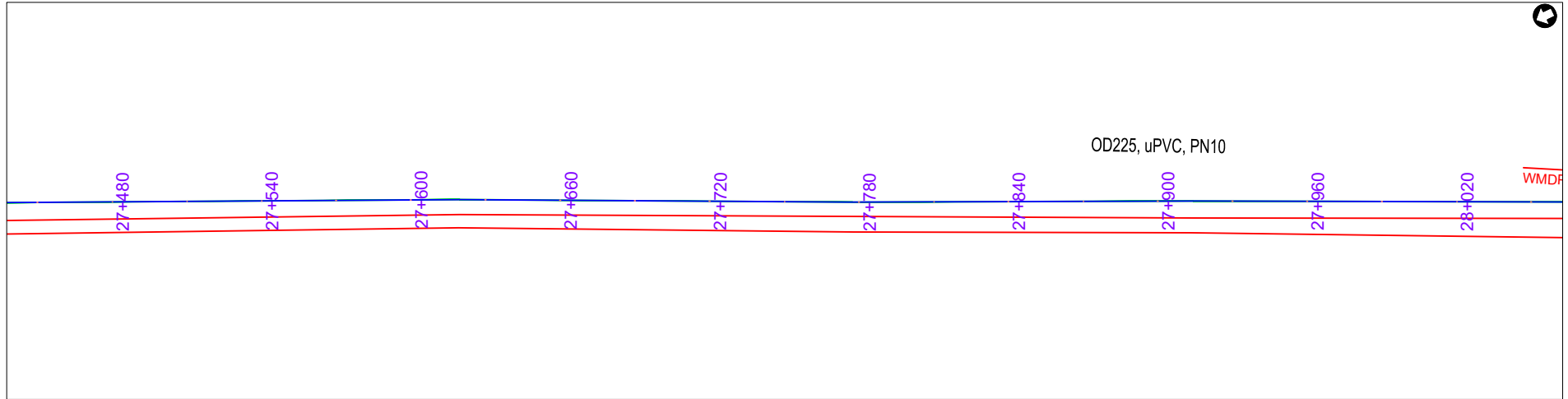
MINISTRY OF WATER AND ENVIRONMENT

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

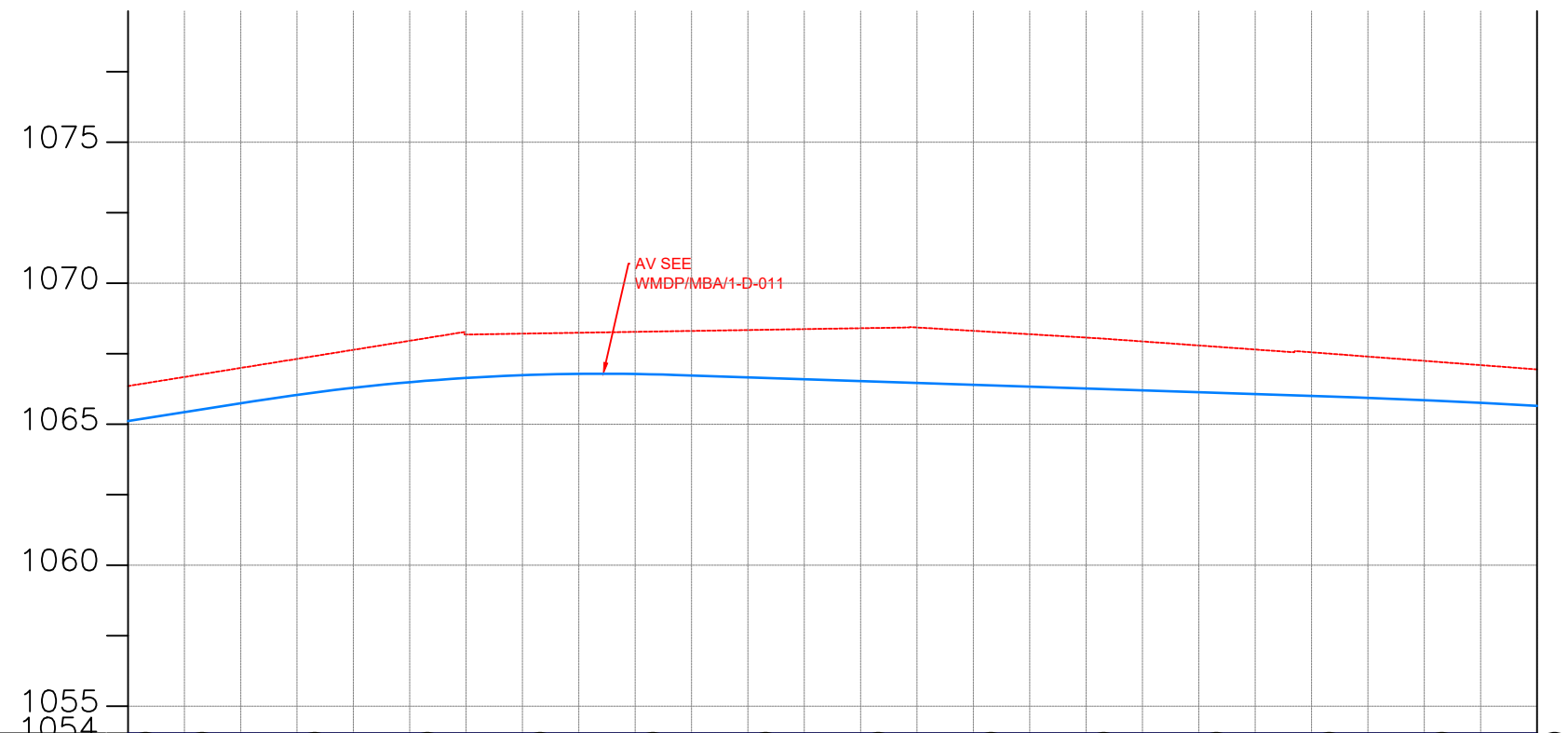
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 27+000.00 - 27+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 27+000.00 - 27+500.00)	Sheet No.: 55
Format: A3	



PLAN LAYOUT



CHAINAGE	1066.354	27+500	1066.675	27+520	1066.997	1067.318	27+560	1067.639	1067.960	27+600	1068.181	1068.213	27+640	1068.245	1068.277	27+680	1068.309	1068.341	27+720	1068.373	1068.405	27+760	1068.432	1068.312	27+800	1068.193	1068.073	27+840	1067.936	1067.793	27+880	1067.650	1067.551	27+920	1067.400	1067.248	27+960	1067.097	1066.945	28+000
GROUND LEVEL(m)																																								
PIPE DETAILS	OD 225 uPVC PN10																																							
PIPE INVERT(m)	1065.11	1065.43	1065.74	1066.04	1066.29	1066.49	1066.64	1066.74	1066.79	1066.78	1066.73	1066.66	1066.60	1066.53	1066.46	1066.40	1066.33	1066.27	1066.20	1066.13	1066.07	1066.00	1065.93	1065.85	1065.76															

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

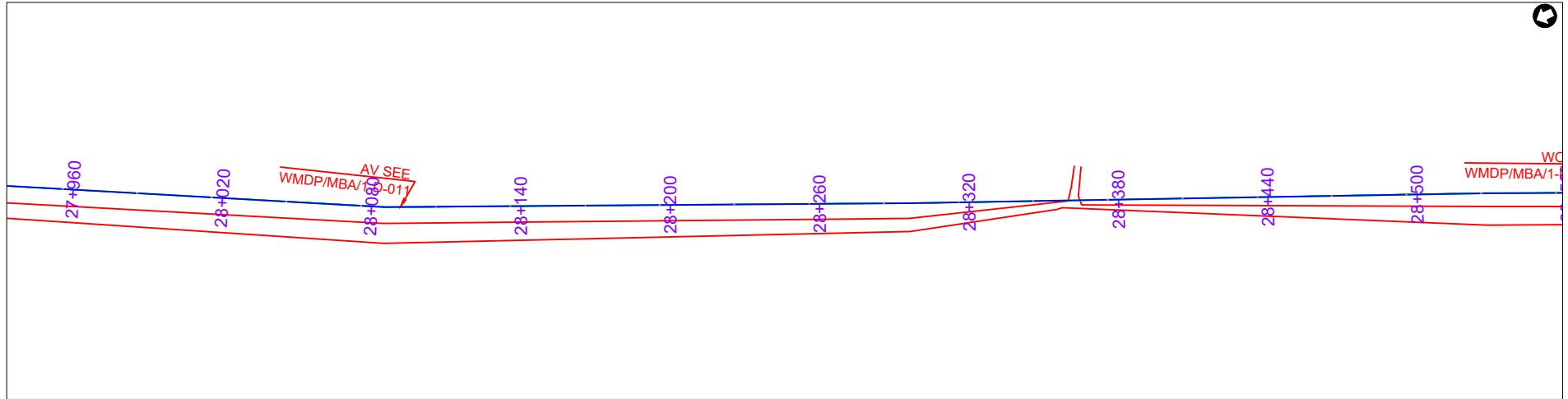
MINISTRY OF WATER AND ENVIRONMENT

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

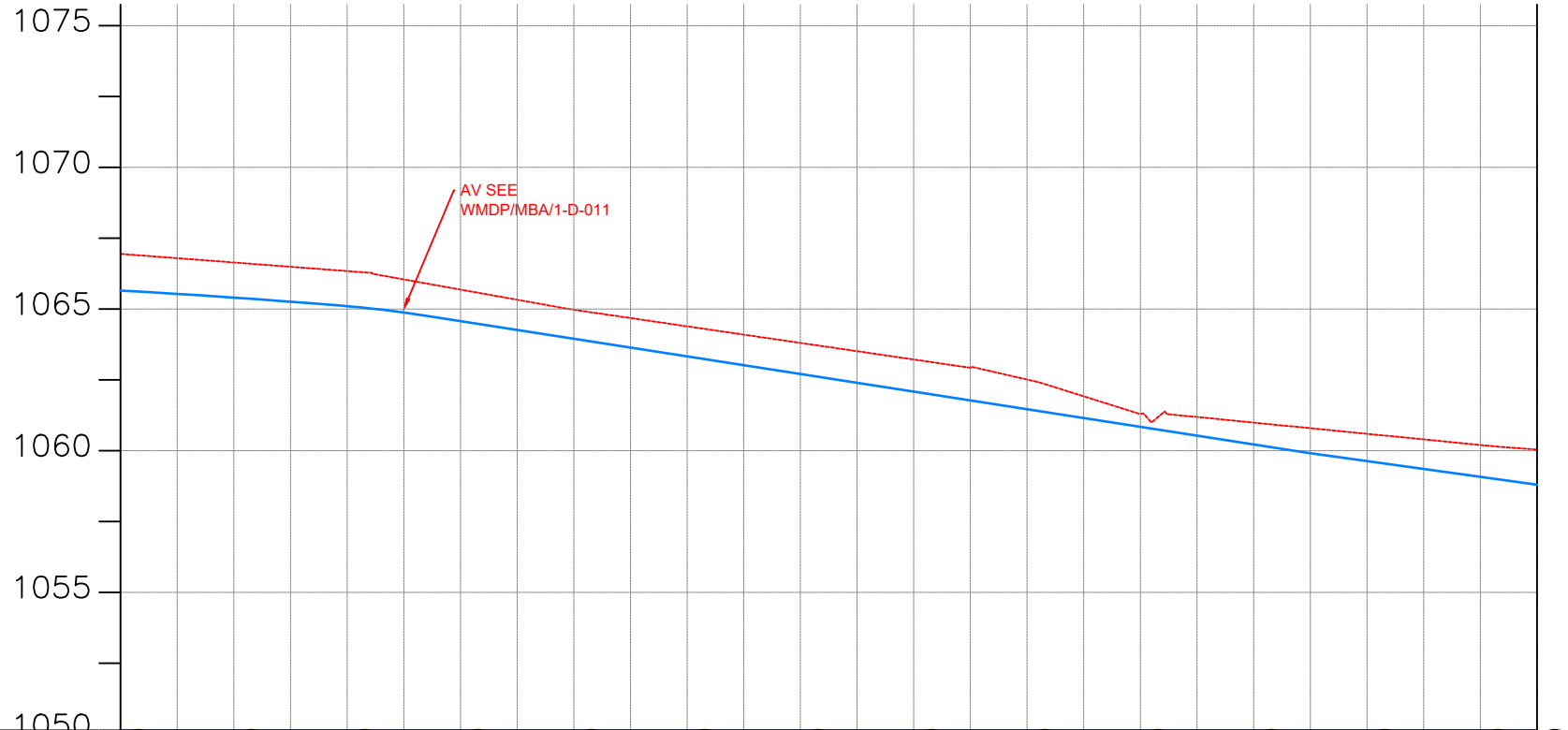
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 27+500.00 - 28+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Sheet No.: 56
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 27+500.00 - 28+000.00)	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
28+000	1066.945	OD 225 uPVC PN10	1065.65
28+020	1066.793		1065.53
28+040	1066.642		1065.40
28+060	1066.490		1065.26
28+080	1066.339		1065.10
28+100	1066.044		1064.88
28+120	1065.685		1064.57
28+140	1065.326		1064.26
28+160	1064.974		1063.95
28+180	1064.681		1063.64
28+200	1064.388		1063.33
28+220	1064.096		1063.02
28+240	1063.803		1062.71
28+260	1063.511		1062.39
28+280	1063.218		1062.08
28+300	1062.925		1061.77
28+320	1062.510		1061.46
28+340	1061.920		1061.15
28+360	1061.300		1060.84
28+380	1061.188		1060.53
28+400	1060.990	1060.22	
28+420	1060.793	1059.91	
28+440	1060.596	1059.63	
28+460	1060.398	1059.35	
28+480	1060.201	1059.08	
28+500	1060.039	1058.80	

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



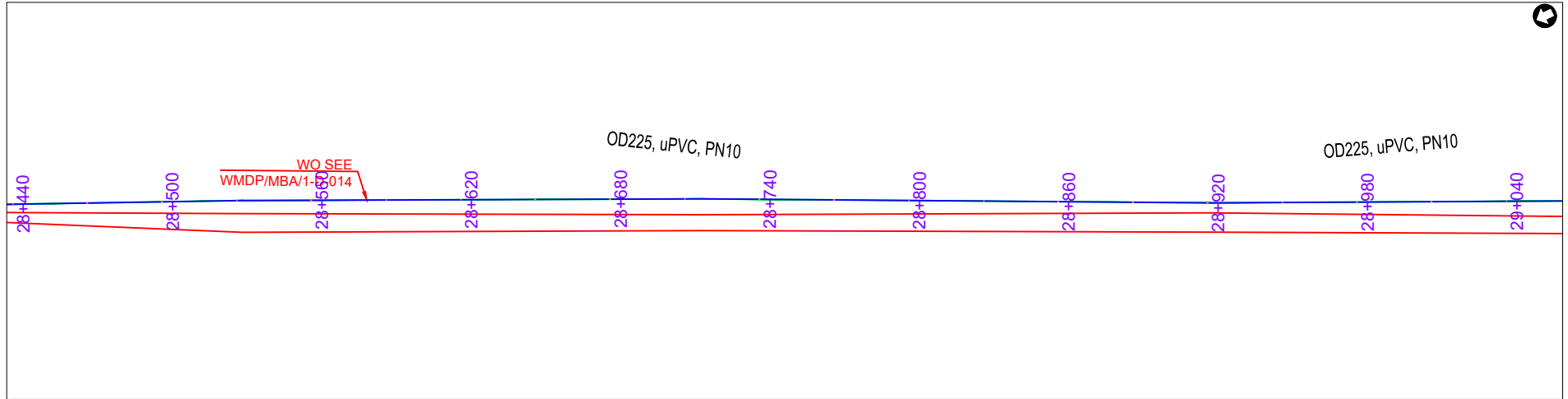
MINISTRY OF WATER AND ENVIRONMENT

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

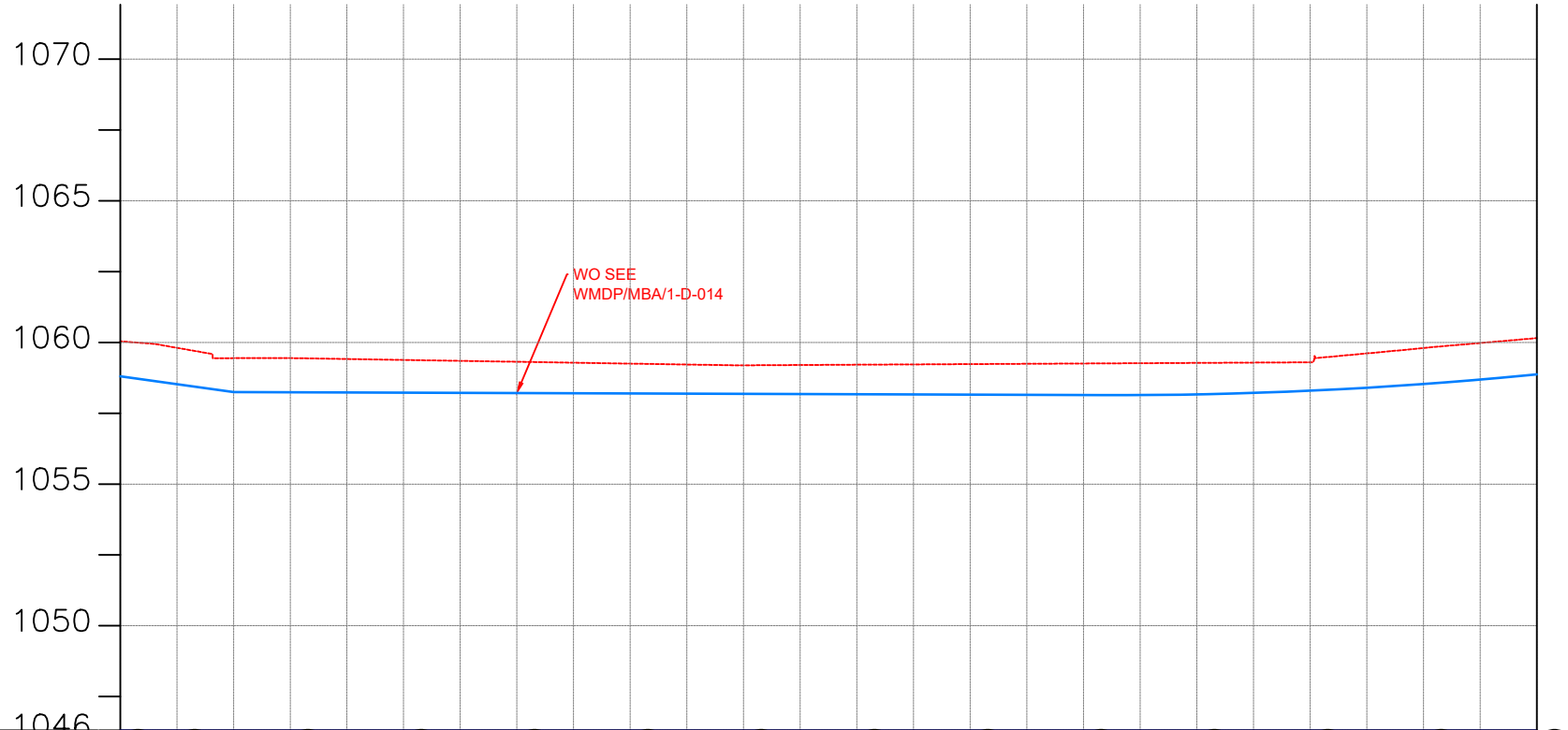
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 28+000.00 - 28+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 28+000.00 - 28+500.00)	Sheet No.: 57
Format: A3	



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
28+500	1060.039	OD 225 uPVC PN10	1058.80
28+520	1059.810		1058.52
	1059.444		1058.25
28+560	1059.447		1058.24
	1059.414		1058.23
28+600	1059.382		1058.23
	1059.349		1058.22
28+640	1059.317		1058.21
	1059.284		1058.21
28+680	1059.252		1058.20
	1059.219		1058.19
28+720	1059.192		1058.18
	1059.203		1058.18
28+760	1059.214		1058.17
	1059.224		1058.16
28+800	1059.235		1058.16
	1059.245		1058.15
28+840	1059.256		1058.14
	1059.267		1058.14
28+880	1059.277		1058.17
	1059.288	1058.22	
28+920	1059.298	1058.30	
	1059.612	1058.40	
28+960	1059.802	1058.53	
	1059.979	1058.69	
29+000	1060.152		1058.87

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

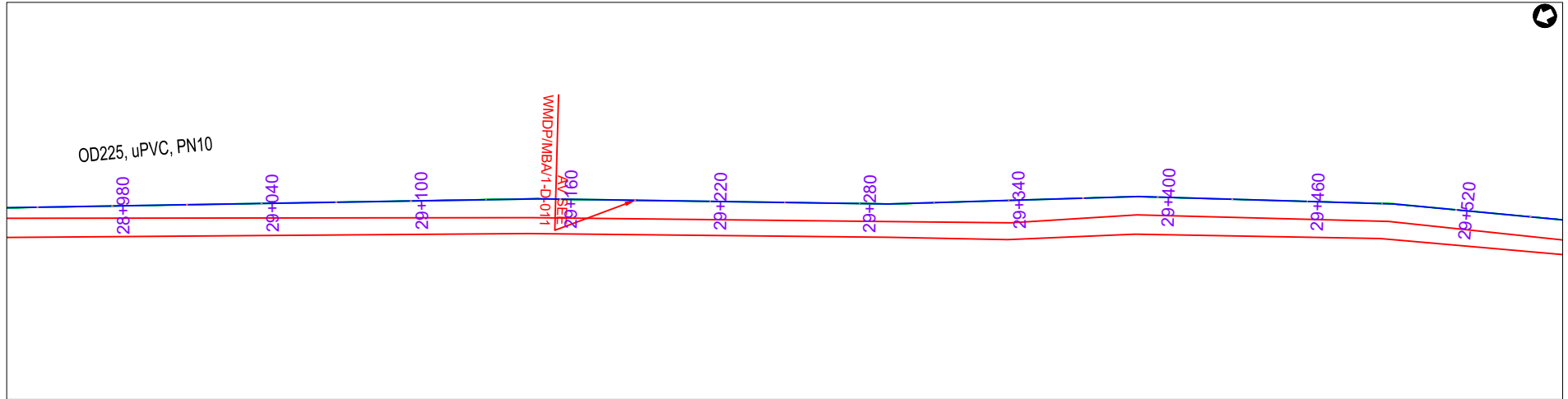
MINISTRY OF WATER AND ENVIRONMENT

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

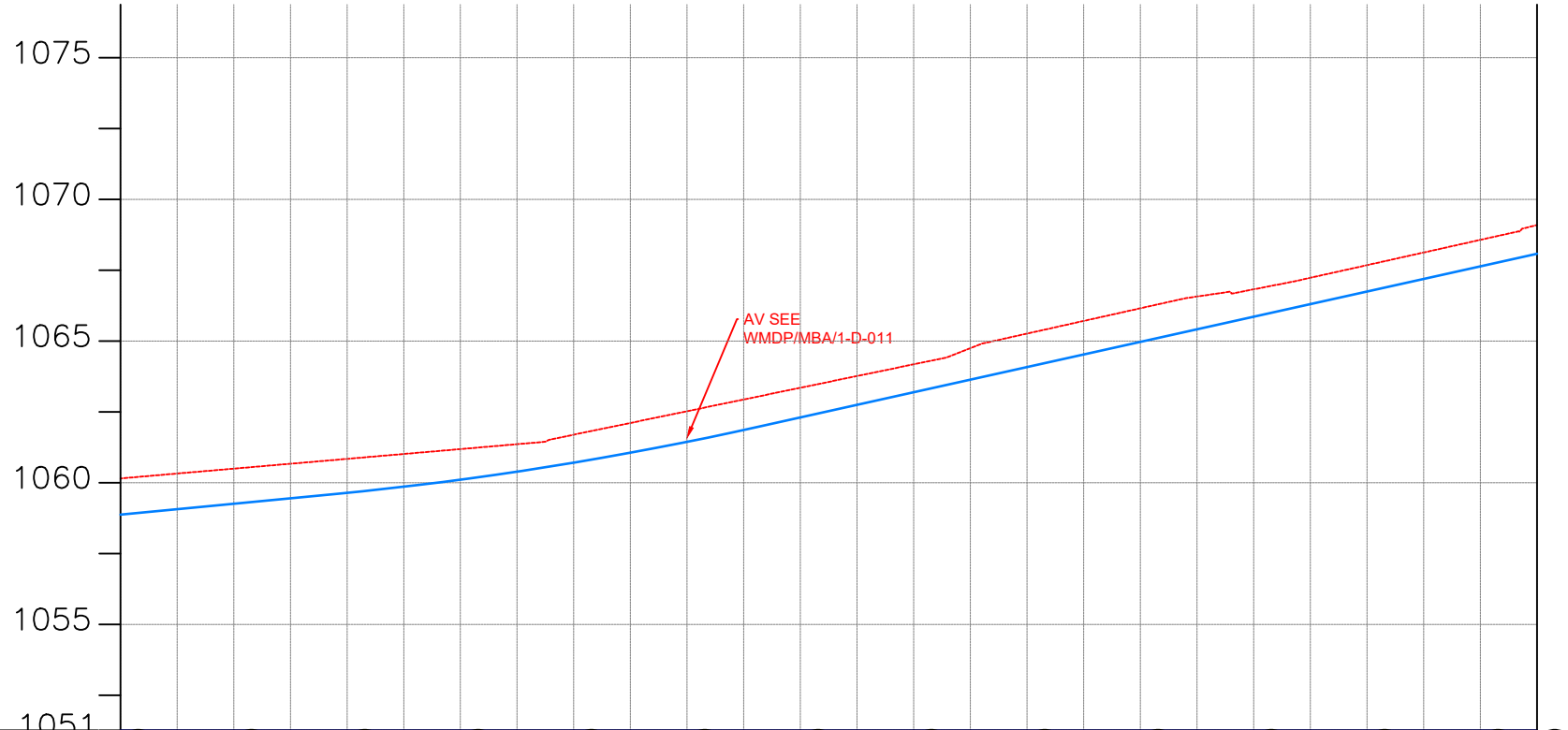
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 28+500.00 - 29+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 28+500.00 - 29+000.00)	Sheet No.: 58
Format: A3	



PLAN LAYOUT



CHAINAGE	1060.152	29+000	1060.325		1060.497	29+040	1060.670		1060.842	29+080	1061.015		1061.187	29+120	1061.360		1061.696	29+160	1062.110		1062.524	29+200	1062.938		1063.352	29+240	1063.766		1064.180	29+280	1064.749		1065.264	29+320	1065.710		1066.157	29+360	1066.572		1066.826	29+400	1067.233		1067.679	29+440	1068.126		1068.572	29+480	1069.095	29+500
GROUND LEVEL(m)	1058.87		1059.07		1059.26		1059.45		1059.64		1059.86		1060.11		1060.39		1060.71		1061.06		1061.44		1061.86		1062.30		1062.75		1063.19		1063.64		1064.08		1064.53		1064.97		1065.42		1065.86		1066.30		1066.75		1067.19		1067.64		1068.08	
PIPE DETAILS	OD 225 uPVC PN10																																																			
PIPE INVERT(m)	1058.87		1059.07		1059.26		1059.45		1059.64		1059.86		1060.11		1060.39		1060.71		1061.06		1061.44		1061.86		1062.30		1062.75		1063.19		1063.64		1064.08		1064.53		1064.97		1065.42		1065.86		1066.30		1066.75		1067.19		1067.64		1068.08	

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

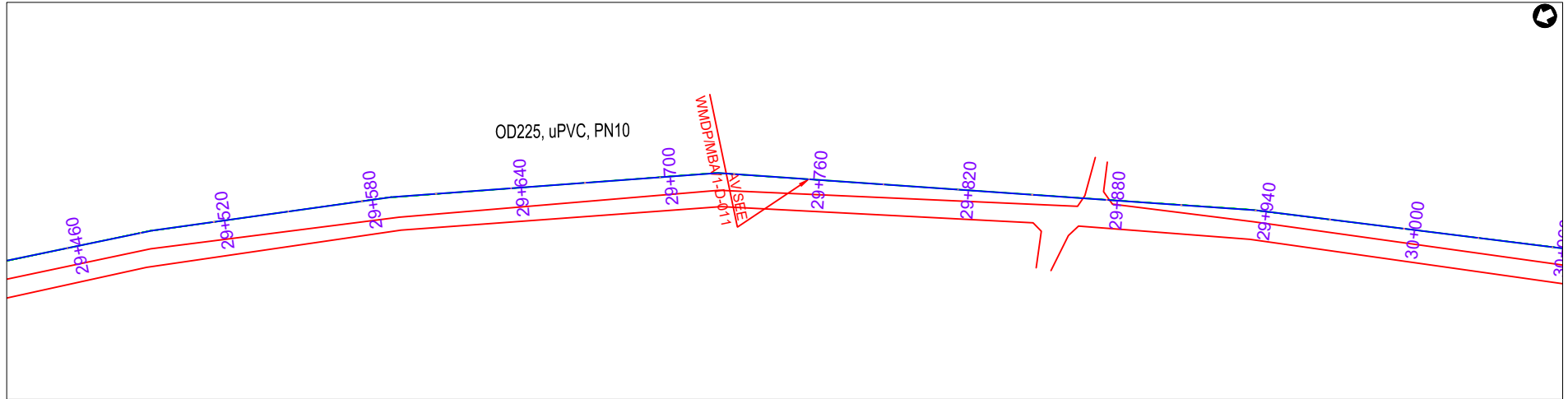
MINISTRY OF WATER AND ENVIRONMENT

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

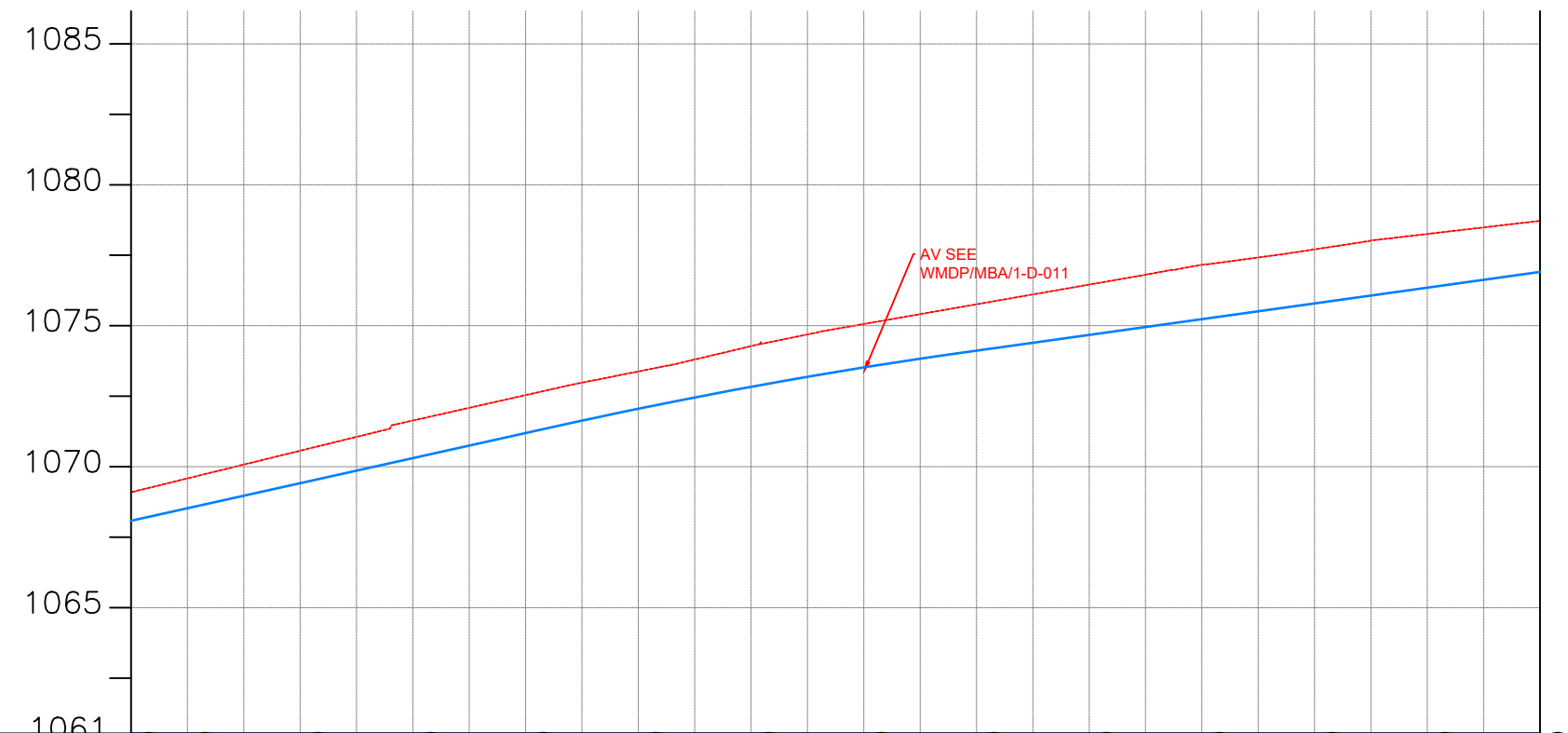
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 29+000.00 - 29+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBW/TL TO BUSOLWE (CH 29+000.00 - 29+500.00)	Sheet No.: 59
Format: A3	



PLAN LAYOUT



CHAINAGE	29+500	29+520	29+560	29+600	29+640	29+680	29+720	29+760	29+800	29+840	29+880	29+920	29+960	30+000												
GROUND LEVEL(m)	1069.095	1069.586	1070.077	1070.568	1071.059	1071.639	1072.090	1072.540	1072.981	1073.379	1073.803	1074.277	1074.694	1075.062	1075.411	1075.761	1076.110	1076.460	1076.809	1077.160	1077.421	1077.710	1078.023	1078.255	1078.488	1078.720
PIPE DETAILS	OD 225 uPVC PN10																									
PIPE INVERT(m)	1068.08	1068.53	1068.97	1069.42	1069.86	1070.31	1070.75	1071.20	1071.64	1072.06	1072.46	1072.83	1073.19	1073.52	1073.83	1074.12	1074.40	1074.68	1074.96	1075.24	1075.51	1075.79	1076.07	1076.35	1076.63	1076.91

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



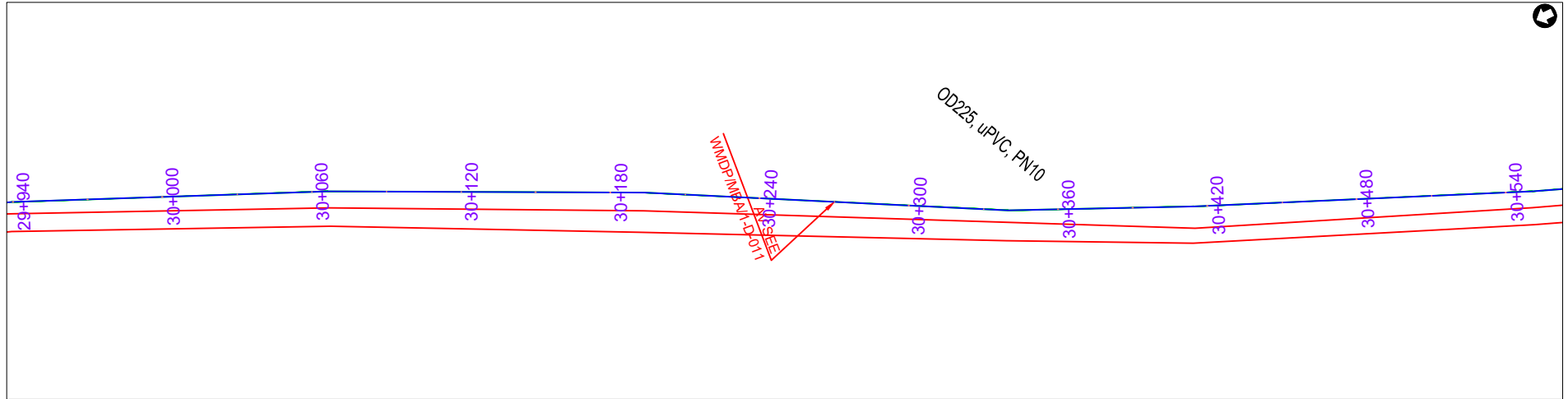
MINISTRY OF WATER AND ENVIRONMENT

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

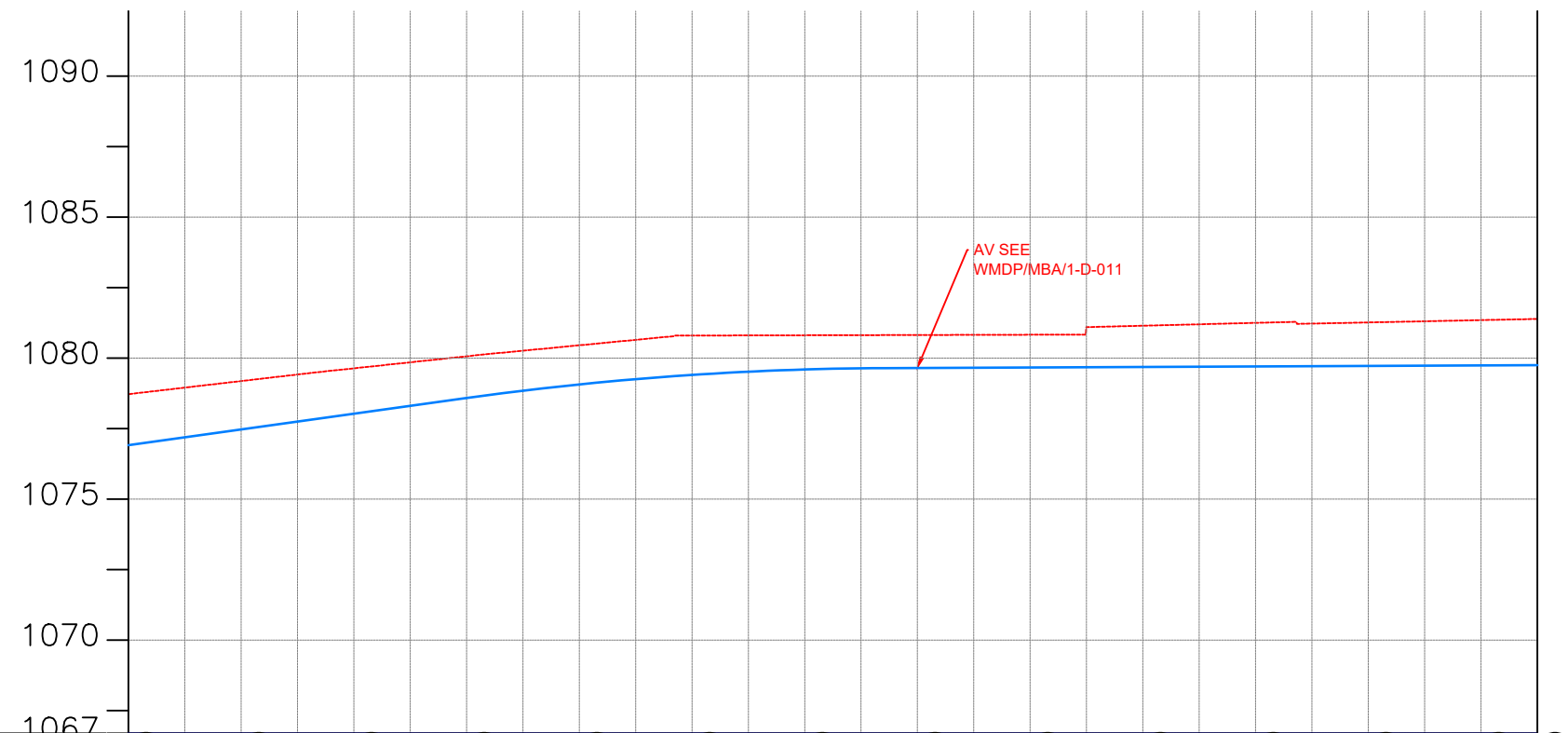
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 29+500.00 - 30+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 29+500.00 - 30+000.00)	Sheet No.: 60
Format: A3	



PLAN LAYOUT



CHAINAGE	30+000		30+040		30+080		30+120		30+160		30+200		30+240		30+280		30+320		30+360		30+400		30+440		30+480		30+500	
GROUND LEVEL(m)	1078.720	1078.952	1079.185	1079.417	1079.636	1079.849	1080.062	1080.261	1080.454	1080.646	1080.798	1080.803	1080.808	1080.813	1080.818	1080.822	1080.827	1081.096	1081.147	1081.198	1081.249	1081.223	1081.264	1081.305	1081.346	1081.388	1081.388	
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1076.91	1077.19	1077.47	1077.75	1078.03	1078.30	1078.58	1078.84	1079.06	1079.25	1079.40	1079.52	1079.60	1079.64	1079.65	1079.66	1079.67	1079.68	1079.69	1079.70	1079.70	1079.71	1079.72	1079.73	1079.74	1079.75	1079.75	

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

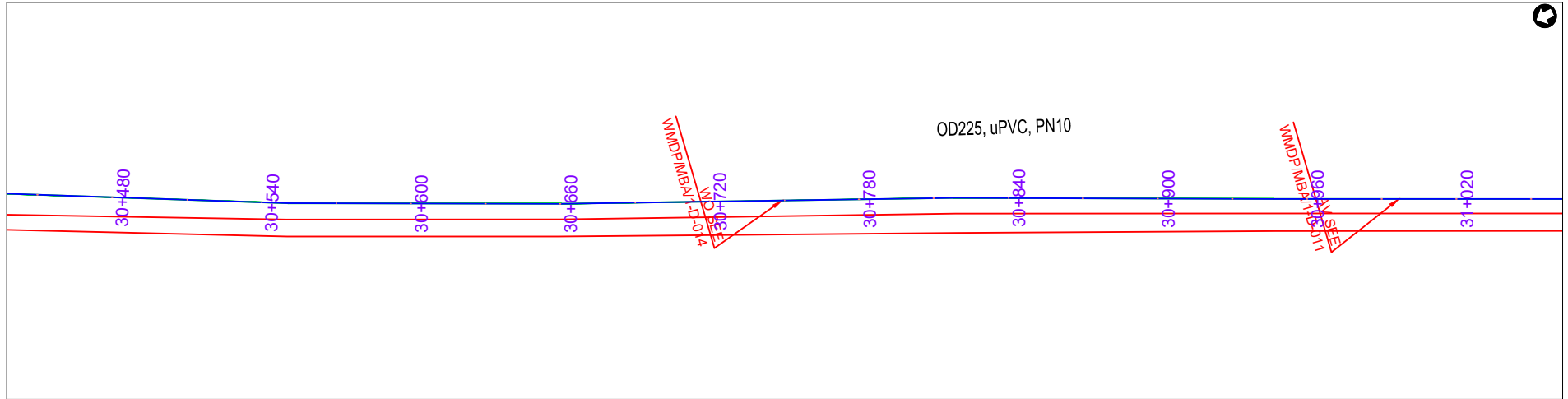
MINISTRY OF WATER AND ENVIRONMENT

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

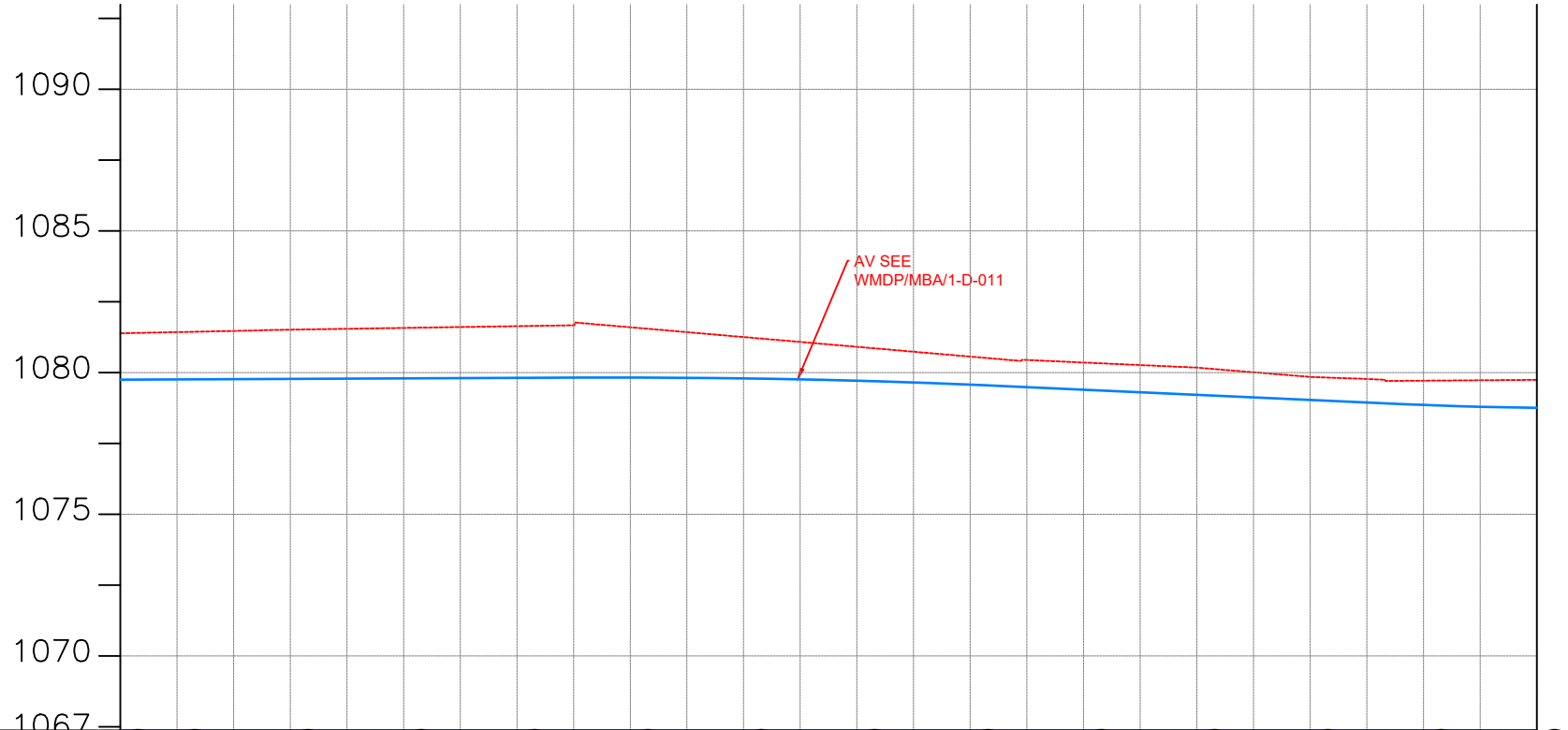
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 30+000.00 - 30+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 30+000.00 - 30+500.00)
Sheet No.: 61	Format: A3



PLAN LAYOUT



CHAINAGE	30+500	30+520	30+540	30+560	30+580	30+600	30+620	30+640	30+660	30+680	30+700	30+720	30+740	30+760	30+780	30+800	30+820	30+840	30+860	30+880	30+900	30+920	30+940	30+960	30+980	31+000		
GROUND LEVEL(m)	1081.388	1081.429	1081.471	1081.515	1081.546	1081.577	1081.608	1081.639	1081.671	1081.600	1081.428	1081.255	1081.083	1080.910	1080.738	1080.565	1080.445	1080.356	1080.267	1080.176	1080.012	1079.848	1079.774	1079.715	1079.730	1079.745		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1079.75	1079.76	1079.77	1079.78	1079.78	1079.79	1079.80	1079.81	1079.82	1079.83	1079.82	1079.80	1079.76	1079.71	1079.65	1079.58	1079.49	1079.40	1079.31	1079.22	1079.12	1079.03	1078.94	1078.86	1078.79	1078.76		

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

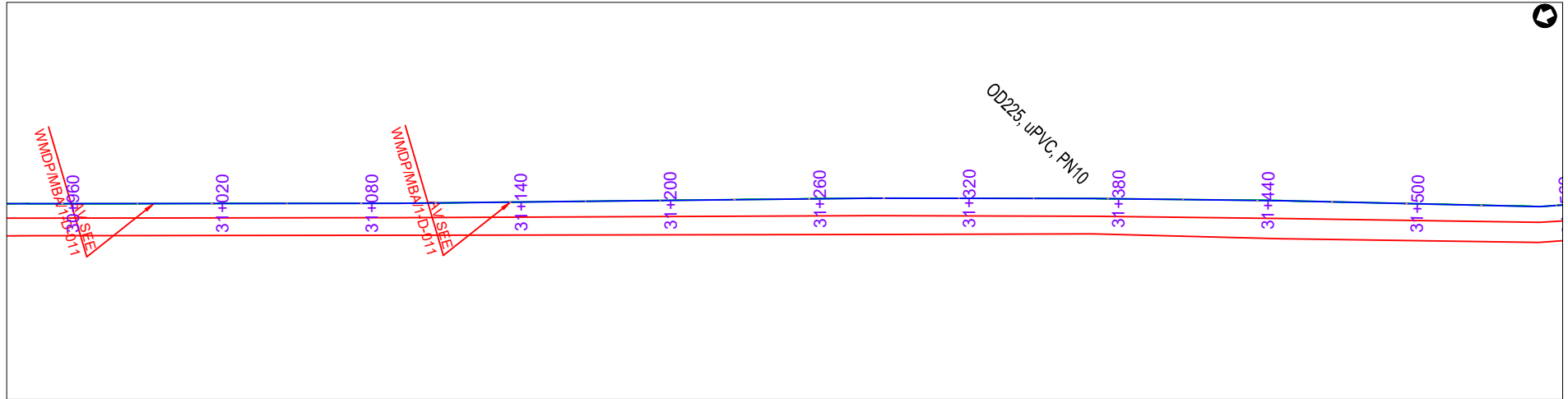
MINISTRY OF WATER AND ENVIRONMENT

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

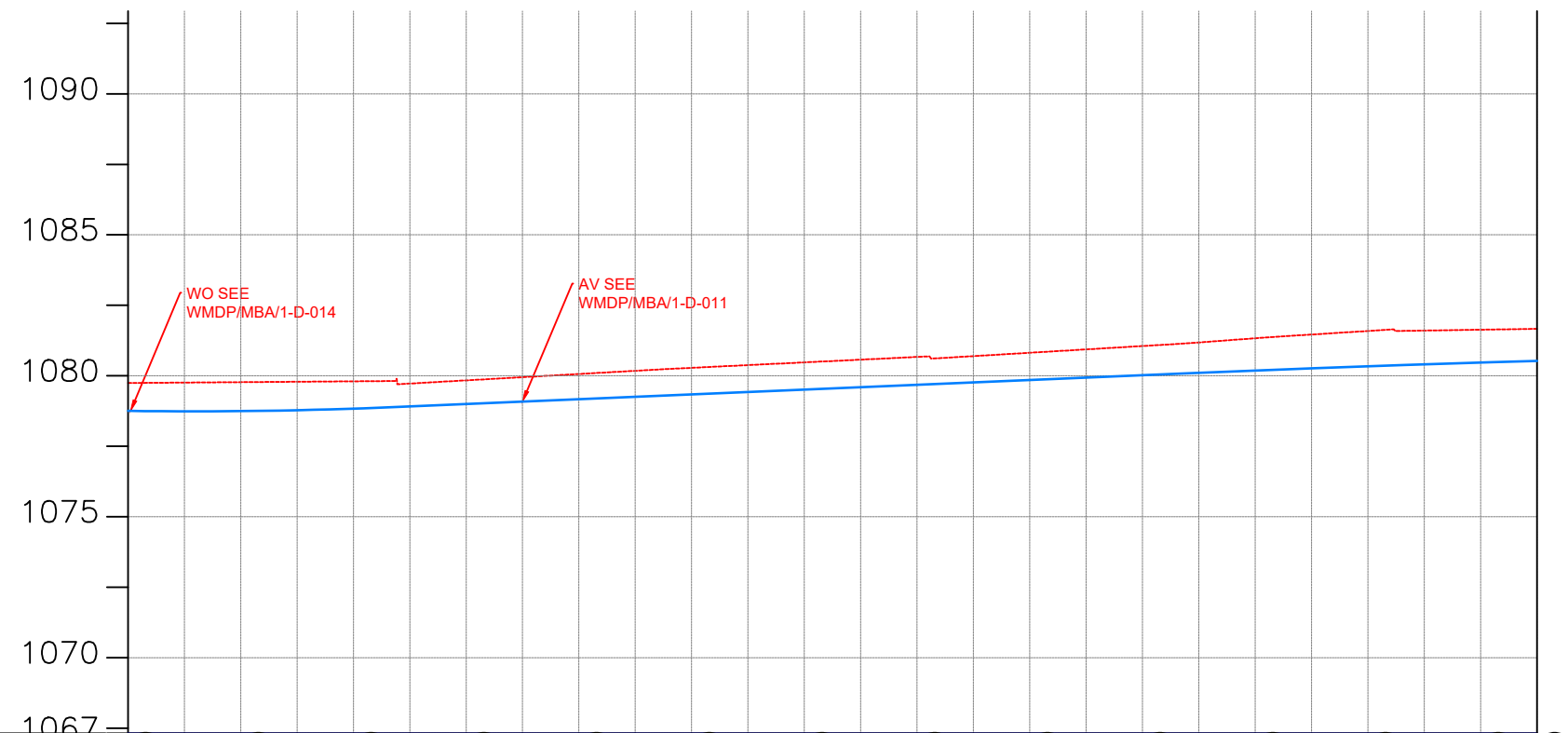
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 30+500.00 - 31+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 30+500.00 - 31+000.00)	
Sheet No.: 62	Format: A3



PLAN LAYOUT



CHAINAGE	31+000		31+040		31+080		31+120		31+160		31+200		31+240		31+280		31+320		31+360		31+400		31+440		31+480	31+500		
GROUND LEVEL(m)	1079.745	1079.759	1079.774	1079.789	1079.804	1079.725	1079.838	1079.951	1080.064	1080.177	1080.283	1080.379	1080.476	1080.572	1080.669	1080.698	1080.817	1080.936	1081.056	1081.183	1081.331	1081.463	1081.590	1081.604	1081.635	1081.665		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1078.76	1078.74	1078.75	1078.78	1078.83	1078.91	1079.00	1079.08	1079.17	1079.25	1079.34	1079.42	1079.51	1079.59	1079.68	1079.77	1079.85	1079.94	1080.02	1080.11	1080.19	1080.26	1080.34	1080.41	1080.47	1080.53		

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

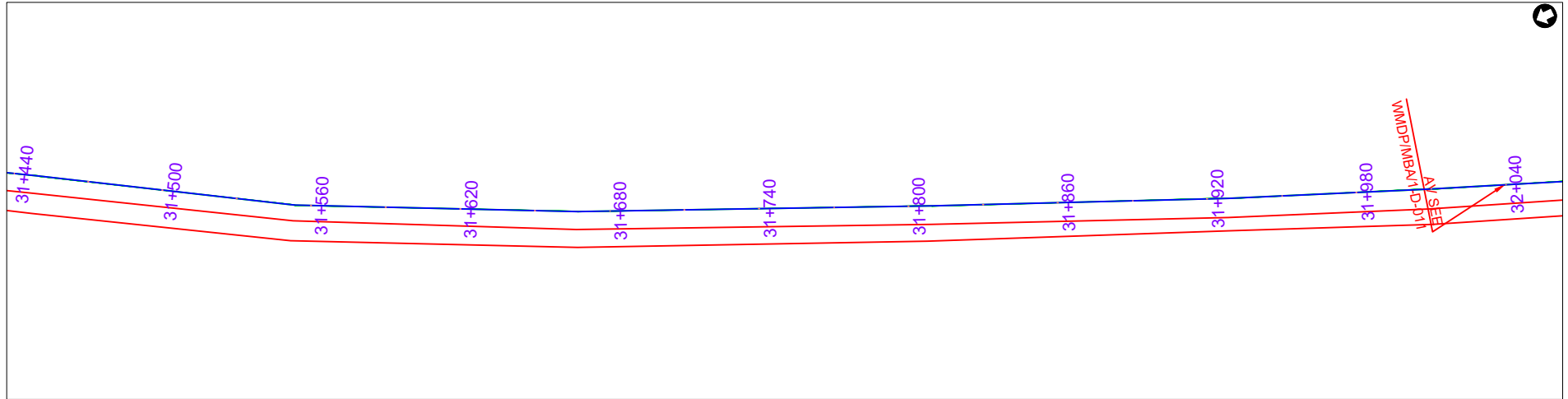
MINISTRY OF WATER AND ENVIRONMENT

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

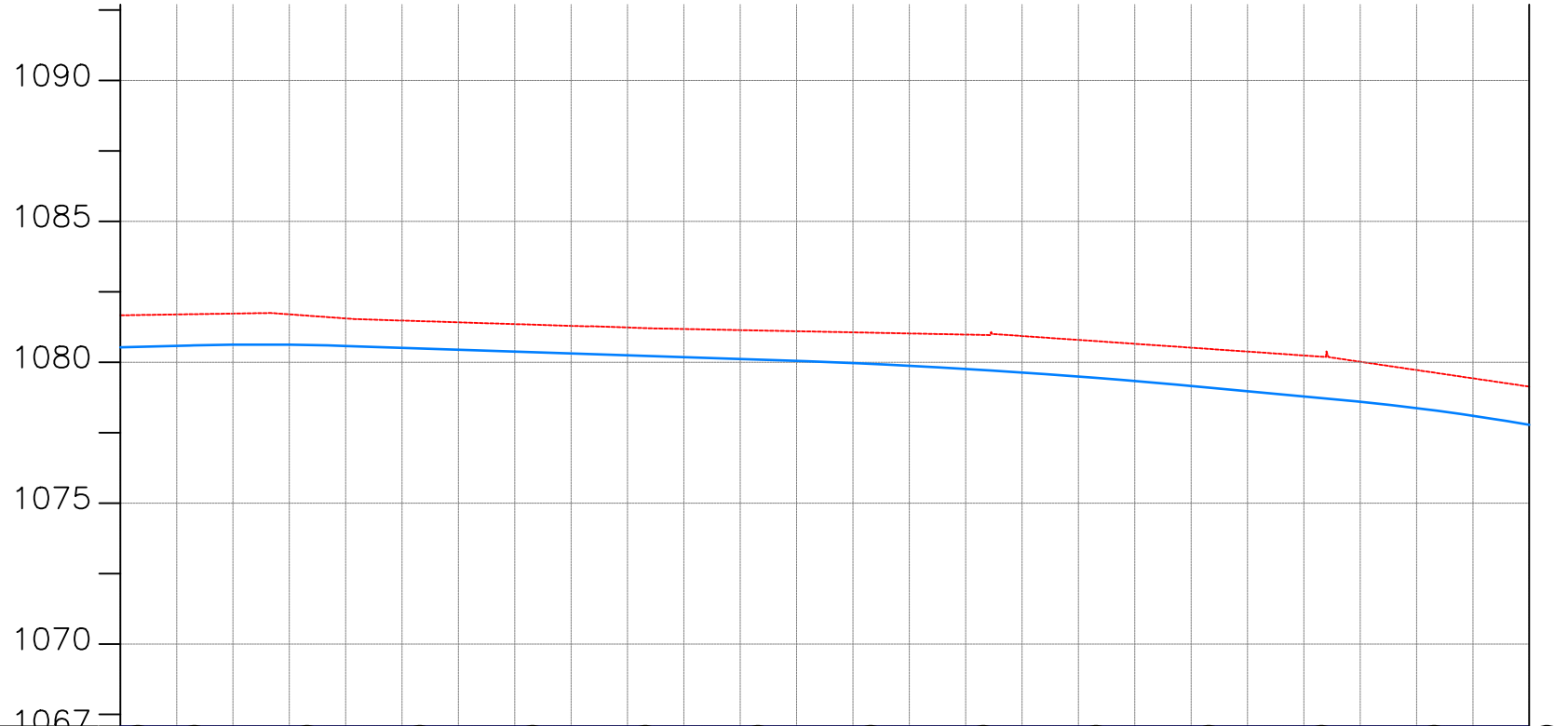
CONSULTANT:

Drawing Title:
**TRANSMISSION LINES
TL TO BUSOLWE (CH 31+000.00 - 31+500.00)**

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 31+000.00 - 31+500.00)
Sheet No.: 63	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
31+500	1081.665	OD 225 uPVC PN10	1080.53
31+520	1081.696		1080.58
31+560	1081.727		1080.62
31+600	1081.699		1080.62
31+640	1081.555		1080.58
31+680	1081.479		1080.51
31+720	1081.416		1080.44
31+760	1081.353		1080.38
31+800	1081.291		1080.31
31+840	1081.233		1080.25
31+880	1081.180		1080.18
31+920	1081.140		1080.11
31+960	1081.100		1080.05
32+000	1081.060		1079.97
	1081.020		1079.87
	1080.980		1079.76
	1080.930		1079.64
	1080.792		1079.49
	1080.654		1079.33
	1080.516		1079.16
	1080.378	1078.97	
	1080.240	1078.78	
	1080.017	1078.60	
	1079.723	1078.37	
	1079.429	1078.10	
	1079.135	1077.78	

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



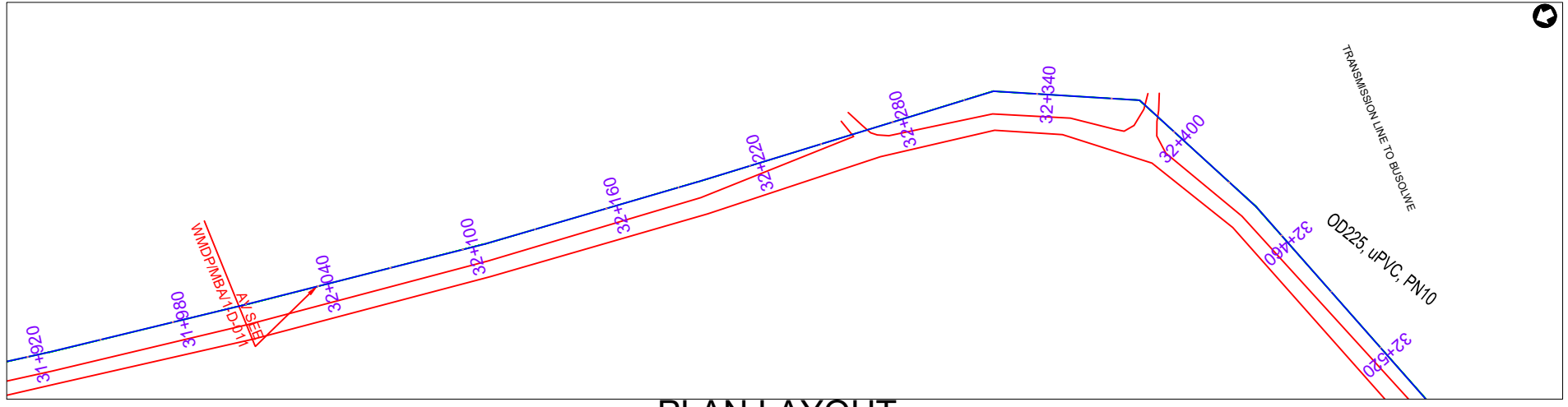
MINISTRY OF WATER AND ENVIRONMENT

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

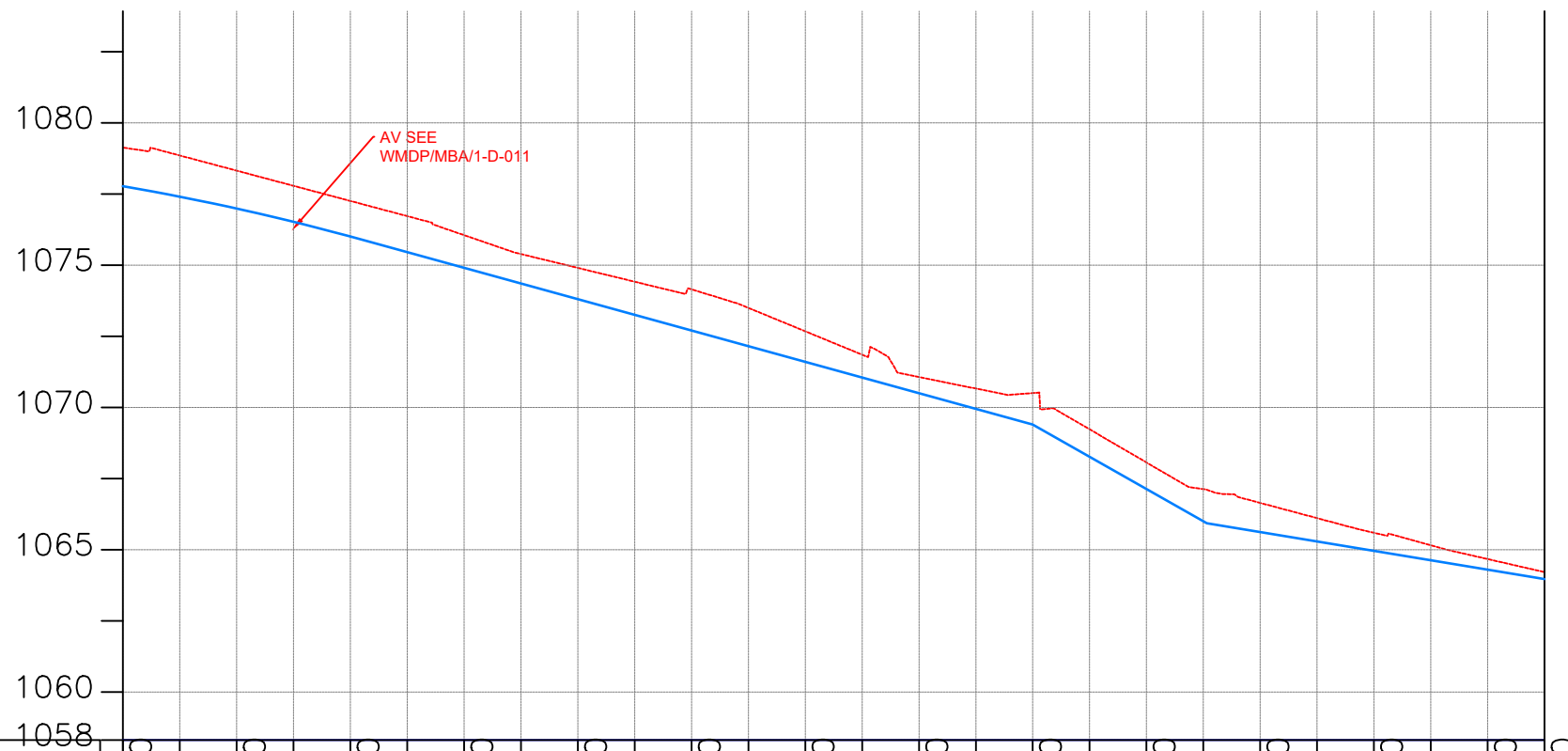
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 31+500.00 - 32+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 31+500.00 - 32+000.00)	Sheet No.: 64
Format: A3	



PLAN LAYOUT



CHAINAGE	32+000		32+040		32+080		32+120		32+160		32+200		32+240		32+280		32+320		32+360		32+400		32+440		32+480	32+500		
GROUND LEVEL(m)	1079.135	1078.856	1078.323	1077.791	1077.258	1076.725	1076.057	1075.393	1074.906	1074.420	1074.152	1073.500	1072.677	1071.854	1071.070	1070.665	1070.506	1069.233	1068.067	1067.130	1066.646	1066.111	1065.597	1065.158	1064.673	1064.215		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1077.78	1077.41	1076.99	1076.52	1076.01	1075.46	1074.91	1074.36	1073.81	1073.26	1072.71	1072.16	1071.61	1071.05	1070.50	1069.95	1069.40	1068.27	1067.14	1066.00	1065.62	1065.29	1064.96	1064.63	1064.30	1063.97		

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

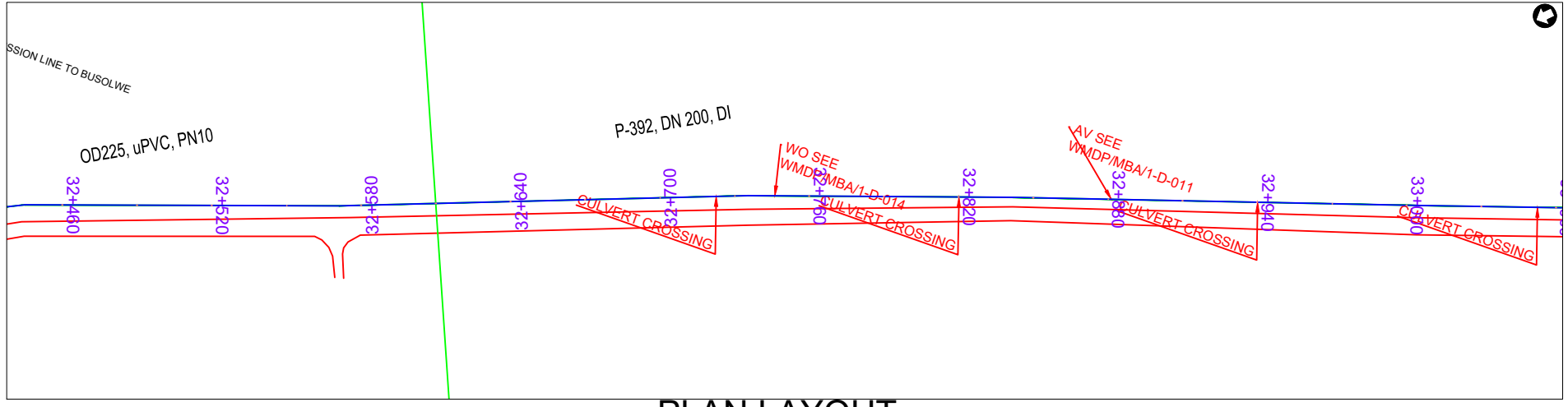
MINISTRY OF WATER AND ENVIRONMENT

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

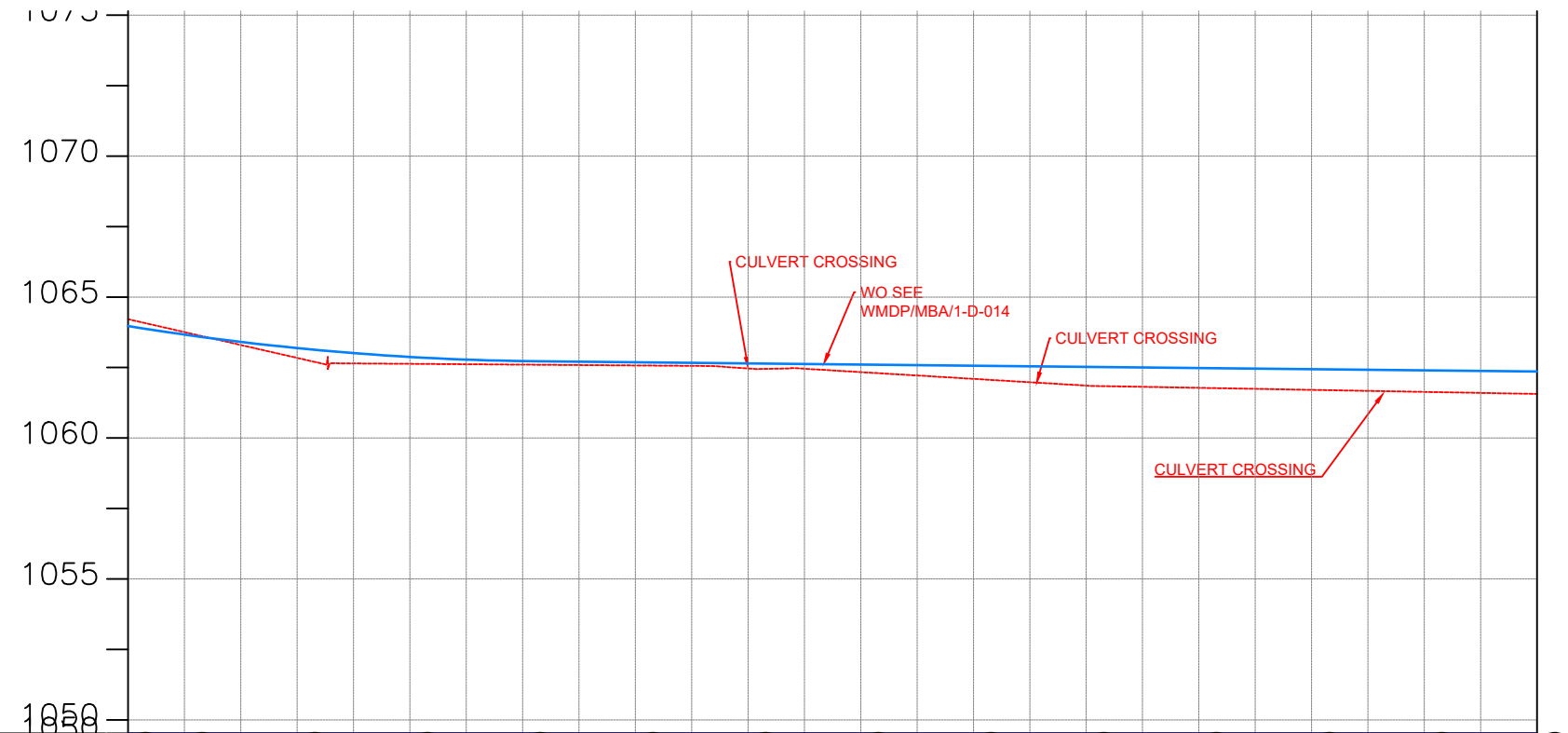
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 32+000.00 - 32+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 32+000.00 - 32+500.00)	Sheet No.: 65
Format: A3	



PLAN LAYOUT



CHAINAGE	32+500	32+520		32+560		32+600		32+640		32+680		32+720		32+760		32+800		32+840		32+880		32+920		32+960		33+000		
GROUND LEVEL(m)	1064.215	1063.757	1063.300	1062.842	1062.646	1062.632	1062.617	1062.603	1062.588	1062.574	1062.559	1062.467	1062.457	1062.338	1062.218	1062.098	1061.979	1061.859	1061.816	1061.780	1061.744	1061.708	1061.672	1061.636	1061.600	1061.564		
PIPE DETAILS	DN 250 DI PN10																											
PIPE INVERT(m)	1063.11	1062.66	1062.20	1061.74	1061.55	1061.53	1061.52	1061.50	1061.49	1061.47	1061.46	1061.37	1061.36	1061.24	1061.12	1061.00	1060.88	1060.76	1060.72	1060.68	1060.64	1060.61	1060.57	1060.54	1060.50	1060.46		

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

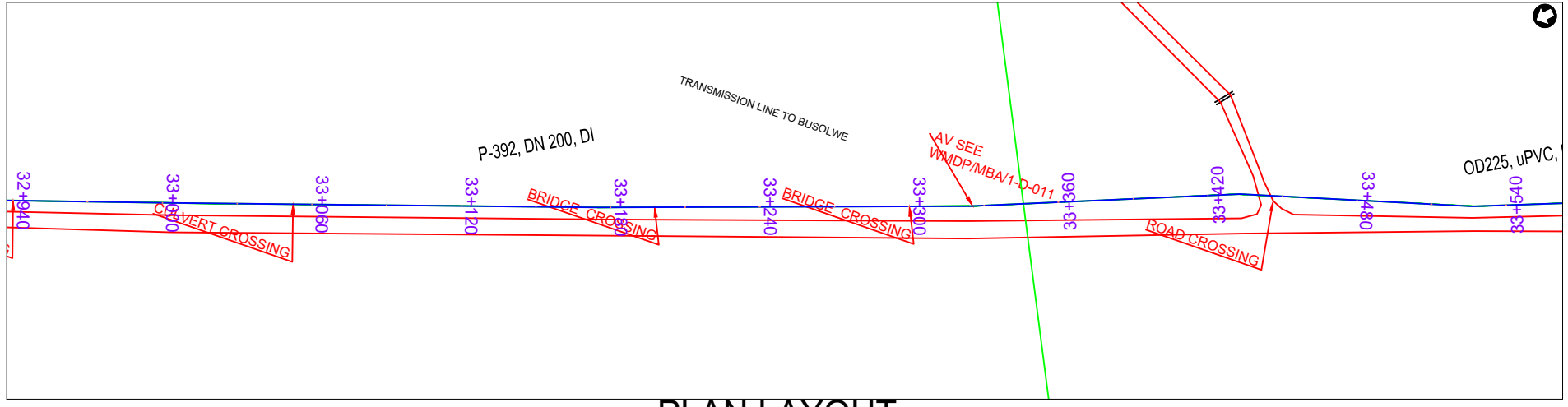
MINISTRY OF WATER AND ENVIRONMENT

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

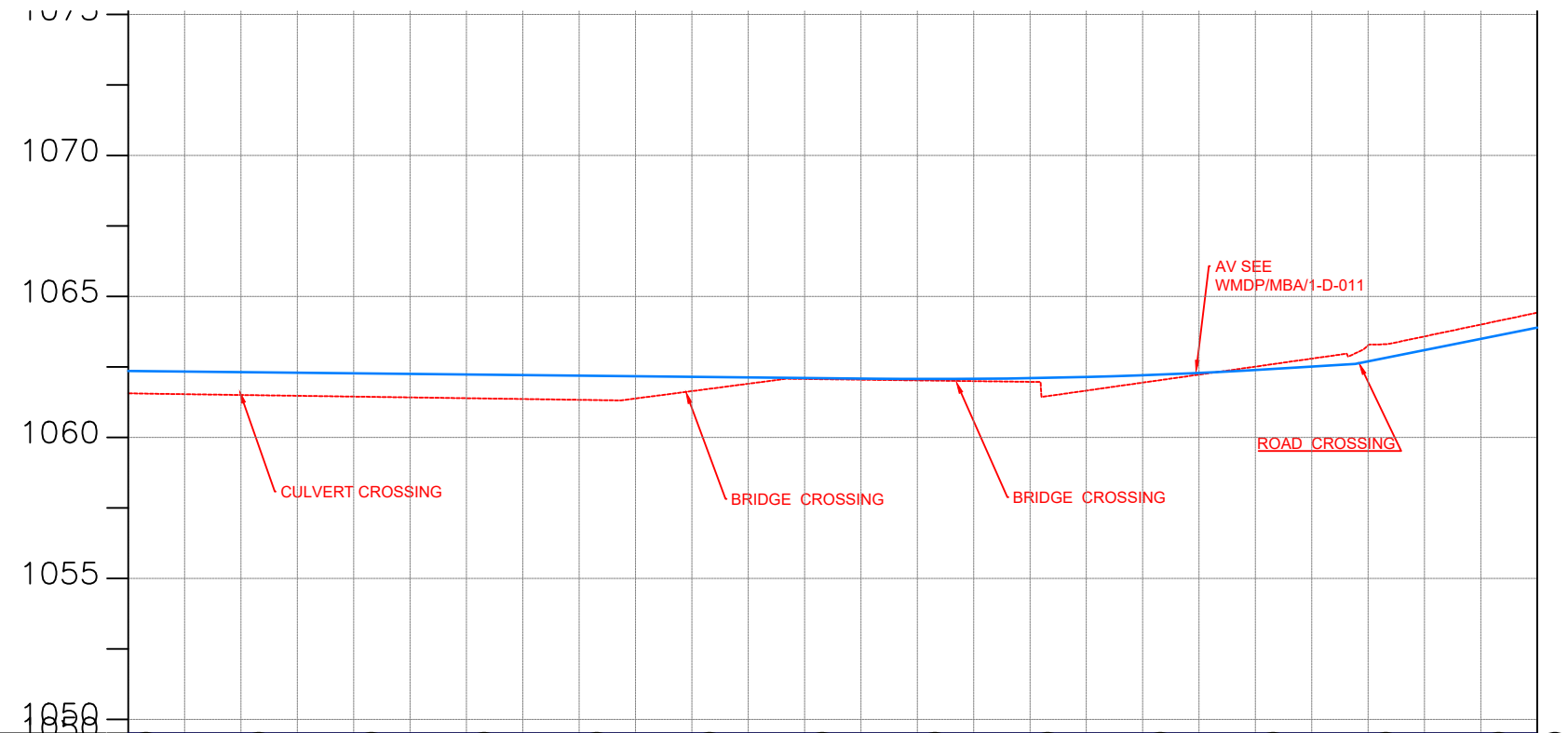
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 32+500.00 - 33+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 32+500.00 - 33+000.00)	Sheet No.: 66
Format: A3	



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
33+000	1061.564	DN 250 DI PN10	1060.46
	1061.534		1060.43
33+040	1061.505	DN 250 DI PN10	1060.41
	1061.477		1060.38
33+080	1061.448	DN 250 DI PN10	1060.35
	1061.420		1060.32
33+120	1061.391	DN 250 DI PN10	1060.29
	1061.363		1060.26
33+160	1061.334	DN 250 DI PN10	1060.23
	1061.381		1060.28
33+200	1061.643	DN 250 DI PN10	1060.54
	1061.904		1060.80
33+240	1062.073	DN 250 DI PN10	1060.97
	1062.048		1060.95
33+280	1062.023	DN 250 DI PN10	1060.92
	1061.997		1060.90
33+320	1061.972	DN 250 DI PN10	1060.87
	1061.661		1060.56
33+360	1061.945	DN 250 DI PN10	1060.84
	1062.228		1061.13
33+400	1062.512	OD 225 uPVC PN10	1061.41
	1062.796		1061.70
33+440	1063.266	OD 225 uPVC PN10	1062.17
	1063.583		1062.48
33+480	1064.004	OD 225 uPVC PN10	1062.90
33+500	1064.424		1063.32

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

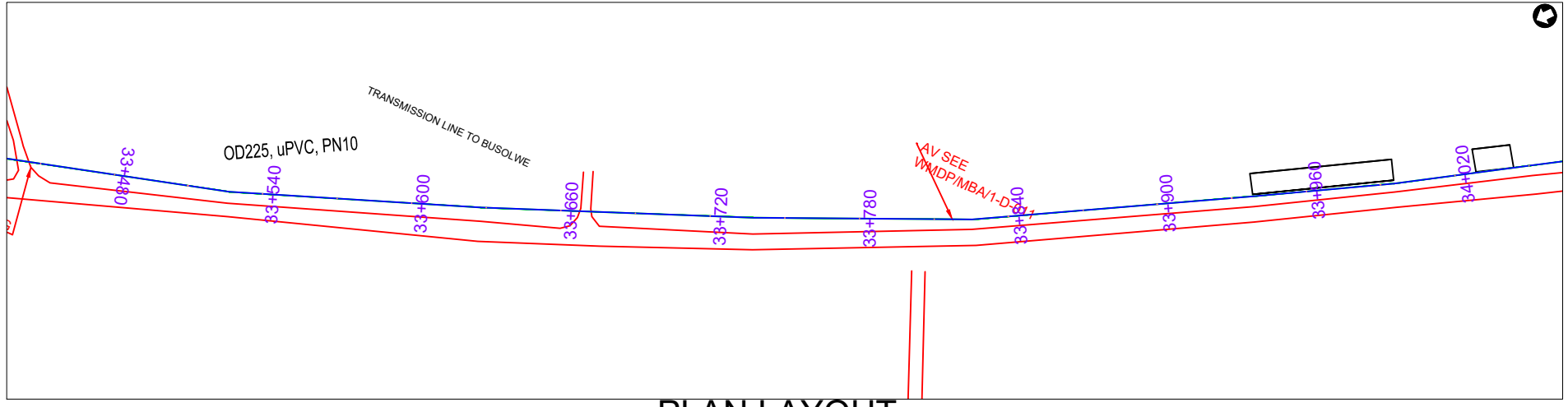
MINISTRY OF WATER AND ENVIRONMENT

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

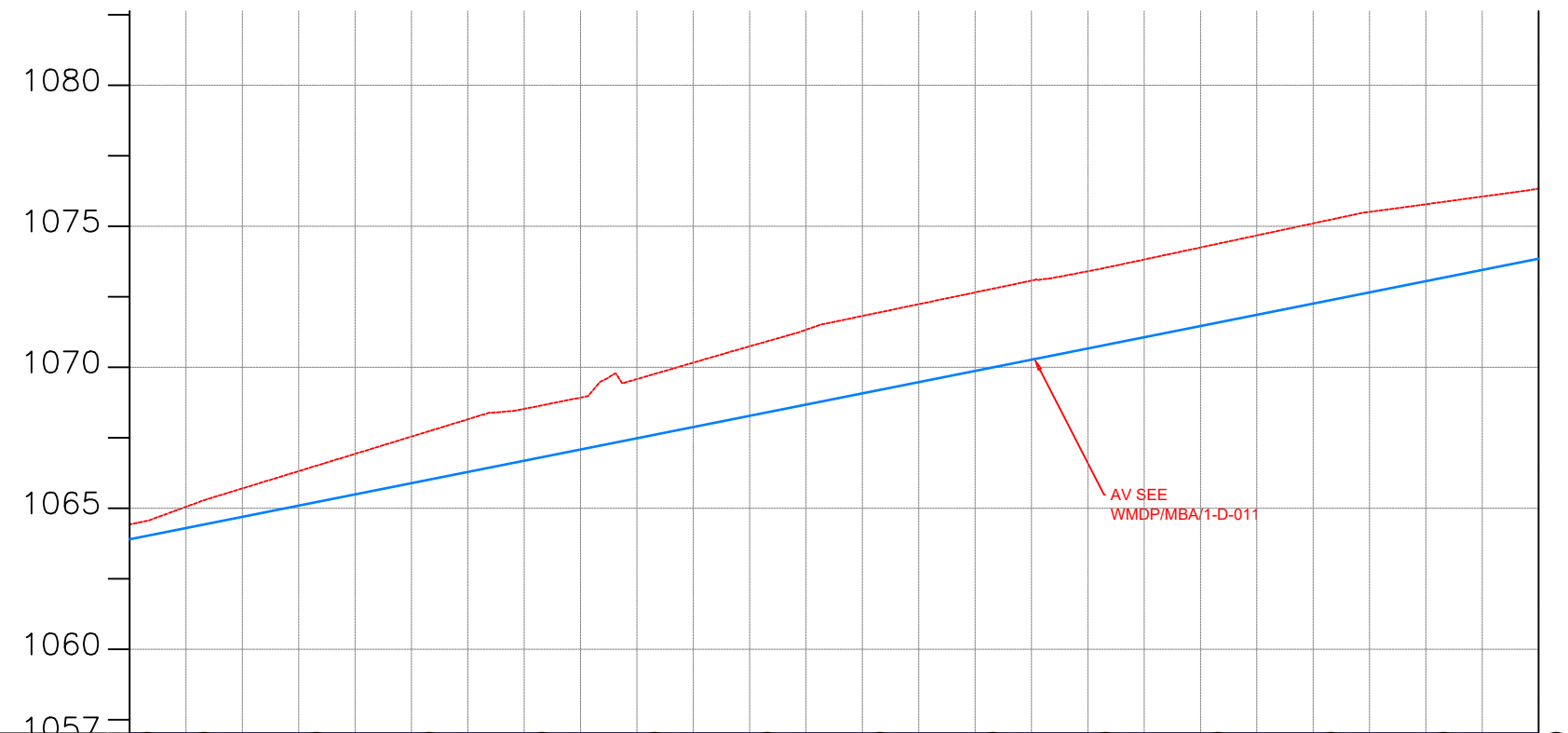
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 33+000.00 - 33+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 33+000.00 - 33+500.00)	Sheet No.: 67
Format: A3	



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
1063.32	1064.424	OD 225 uPVC PN10	1063.32
1063.95	1065.051		1063.95
1064.60	1065.703		1064.60
1065.22	1066.316		1065.22
1065.83	1066.929		1065.83
1066.44	1067.541		1066.44
1067.05	1068.154		1067.05
1067.42	1068.524		1067.42
1067.82	1068.924		1067.82
1068.48	1069.580		1068.48
1069.06	1070.163		1069.06
1069.64	1070.743		1069.64
1070.23	1071.329		1070.23
1070.72	1071.819		1070.72
1071.14	1072.237		1071.14
1071.55	1072.654		1071.55
1071.97	1073.071	1071.97	
1072.30	1073.403	1072.30	
1072.72	1073.821	1072.72	
1073.15	1074.248	1073.15	
1073.58	1074.675	1073.58	
1074.00	1075.103	1074.00	
1074.41	1075.508	1074.41	
1074.68	1075.780	1074.68	
1074.95	1076.053	1074.95	
1075.23	1076.333	1075.23	

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

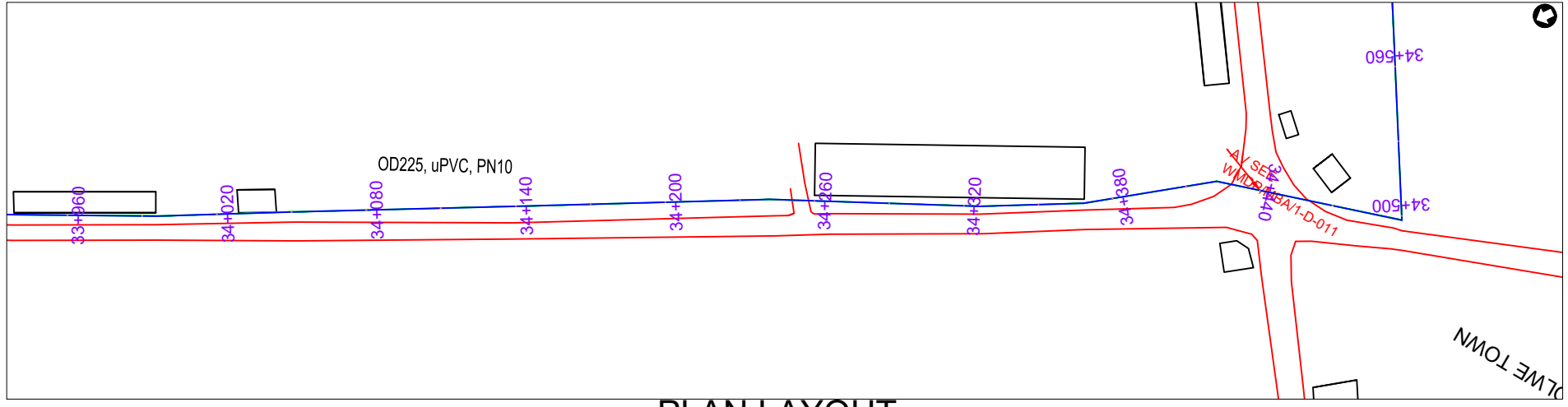
MINISTRY OF WATER AND ENVIRONMENT

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

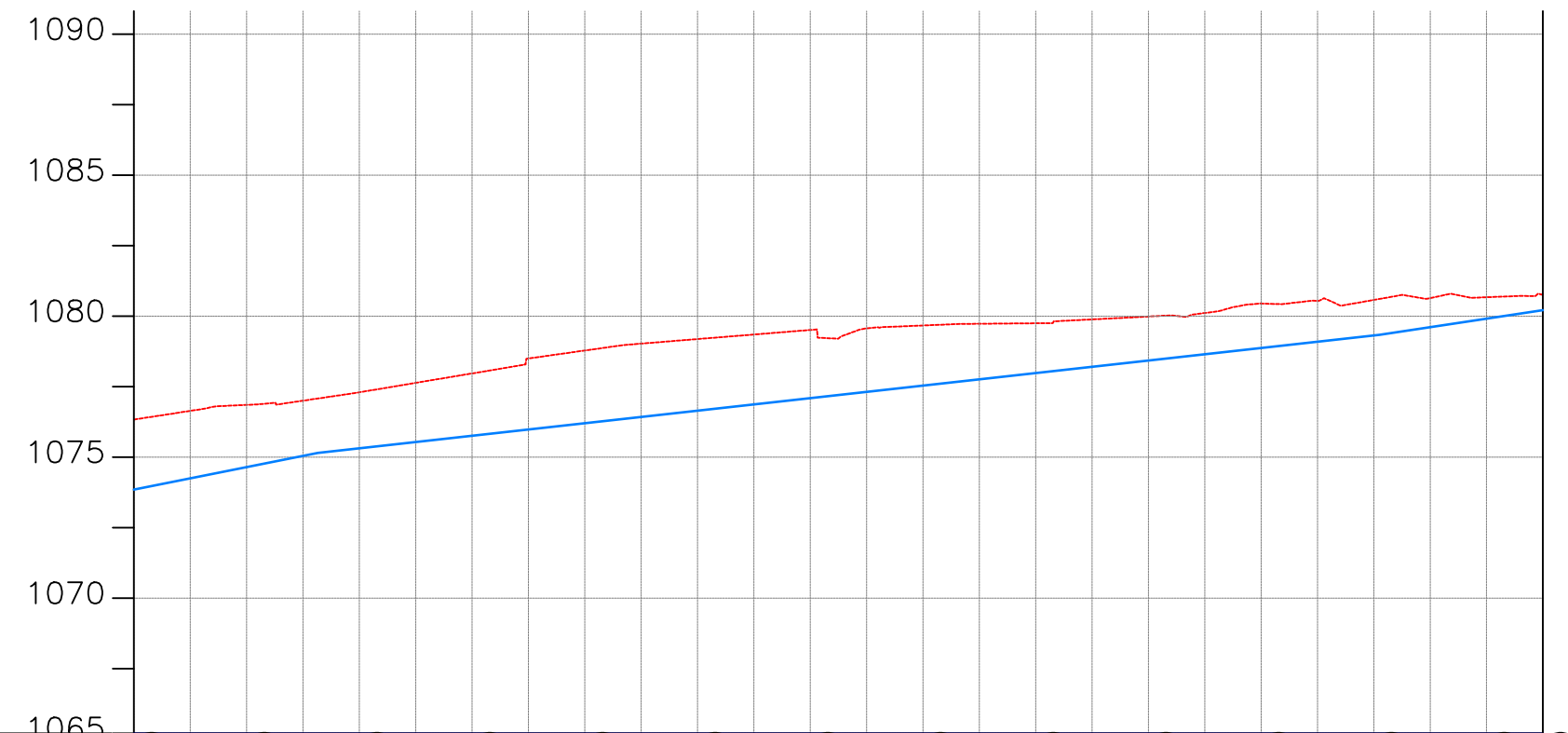
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 33+500.00 - 34+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 33+500.00 - 34+000.00)	Sheet No.: 68
Format: A3	



PLAN LAYOUT



CHAINAGE	34+000	34+020	34+040	34+060	34+080	34+100	34+120	34+140	34+160	34+180	34+200	34+220	34+240	34+260	34+280	34+300	34+320	34+340	34+360	34+380	34+400	34+420	34+440	34+460	34+480	34+500		
GROUND LEVEL(m)	1076.333	1076.640	1076.853	1077.002	1077.300	1077.635	1077.969	1078.499	1078.781	1079.026	1079.188	1079.349	1079.510	1079.569	1079.670	1079.730	1079.748	1079.885	1079.986	1080.112	1080.447	1080.544	1080.576	1080.641	1080.671	1080.787		
PIPE DETAILS	OD 225 uPVC PN10																											
PIPE INVERT(m)	1075.23	1075.54	1075.75	1075.90	1076.20	1076.53	1076.87	1077.40	1077.68	1077.93	1078.09	1078.25	1078.41	1078.47	1078.57	1078.63	1078.65	1078.78	1078.89	1079.01	1079.35	1079.44	1079.48	1079.54	1079.57	1079.69		

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

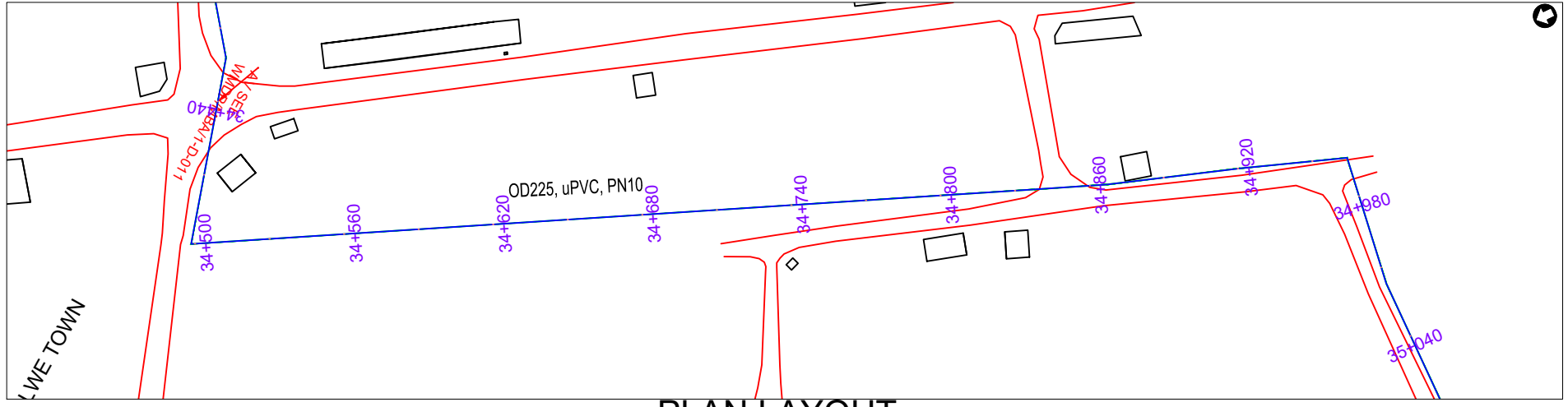
MINISTRY OF WATER AND ENVIRONMENT

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

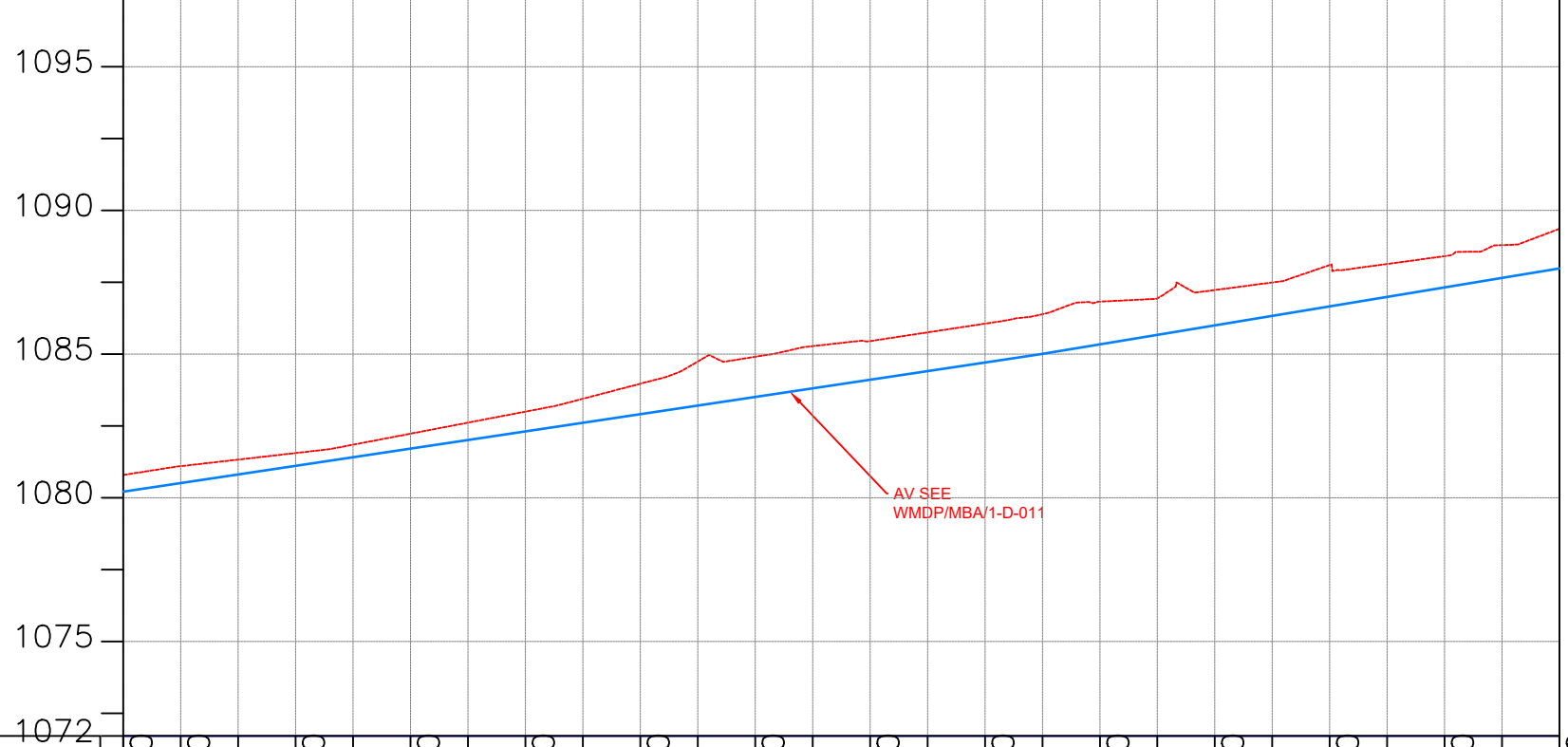
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 34+000.00 - 34+500.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Date: December 2021
Drawing No.: IWMDP/MB/TL TO BUSOLWE (CH 34+000.00 - 34+500.00)	Format: A3
Sheet No.: 69	Format: A3



PLAN LAYOUT



CHAINAGE	34+500	34+520	34+560	34+600	34+640	34+680	34+720	34+760	34+800	34+840	34+880	34+920	34+960	35+000												
GROUND LEVEL(m)	1080.787	1081.101	1081.329	1081.558	1081.848	1082.232	1082.615	1082.999	1083.447	1083.970	1084.743	1084.908	1085.278	1085.453	1085.757	1086.061	1086.388	1086.826	1086.941	1087.231	1087.493	1088.102	1088.138	1088.410	1088.793	1089.363
PIPE DETAILS	OD 225 uPVC PN10																									
PIPE INVERT(m)	1079.69	1080.00	1080.23	1080.46	1080.75	1081.13	1081.52	1081.90	1082.35	1082.87	1083.64	1083.81	1084.18	1084.35	1084.66	1084.96	1085.29	1085.73	1085.84	1086.13	1086.39	1087.00	1087.04	1087.31	1087.69	1088.26

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

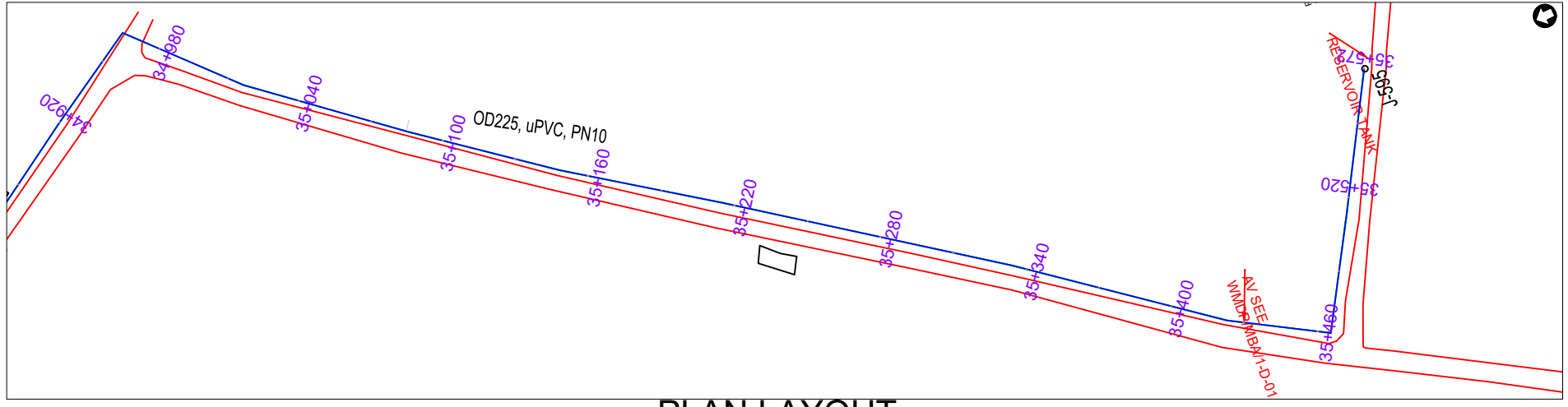
MINISTRY OF WATER AND ENVIRONMENT

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

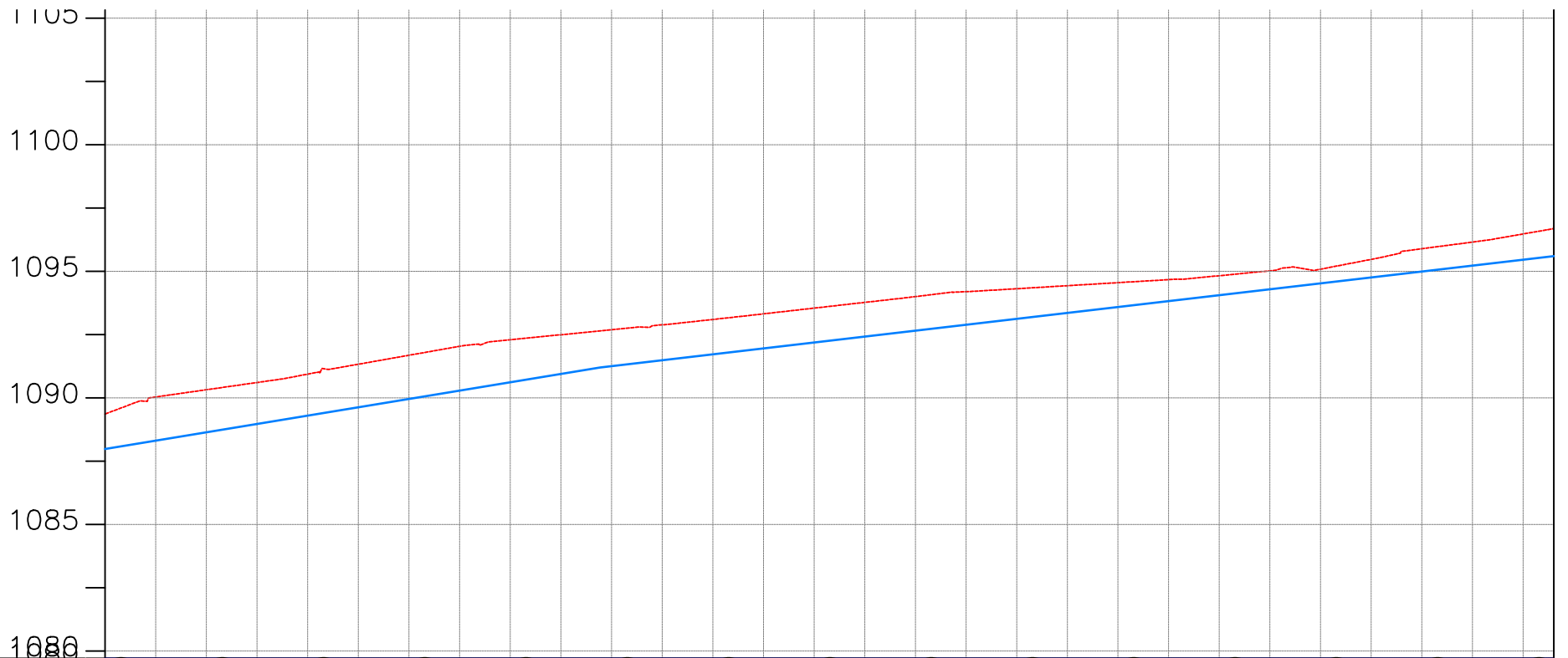
CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 34+500.00 - 35+000.00)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 34+500.00 - 35+000.00)
Sheet No.: 70	Format: A3



PLAN LAYOUT



CHAINAGE	GROUND LEVEL(m)	PIPE DETAILS	PIPE INVERT(m)
1088.26	1089.363 35+000	OD 225 uPVC PN10	1088.26
1088.94	1090.035		1088.94
1089.22	1090.321 35+040		1089.22
1089.51	1090.607		1089.51
1089.84	1090.938 35+080		1089.84
1090.23	1091.329		1090.23
1090.58	1091.683 35+120		1090.58
1090.94	1092.037		1090.94
1091.20	1092.296 35+160		1091.20
1091.39	1092.494		1091.39
1091.59	1092.692 35+200		1091.59
1091.78	1092.885		1091.78
1092.00	1093.098 35+240		1092.00
1092.22	1093.319		1092.22
1092.45	1093.546 35+280		1092.45
1092.67	1093.772		1092.67
1092.90	1094.001 35+320		1092.90
1093.10	1094.195		1093.10
1093.21	1094.312 35+360		1093.21
1093.33	1094.432		1093.33
1093.45	1094.552 35+400	1093.45	
1093.57	1094.674	1093.57	
1093.73	1094.826 35+440	1093.73	
1093.92	1095.021	1093.92	
1093.98	1095.085 35+480	1093.98	
1094.37	1095.471	1094.37	
1094.79	1095.892 35+520	1094.79	
1095.06	1096.155	1095.06	
1095.38	1096.476 35+560	1095.38	
1095.68	1096.784 35+572	1095.68	

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 BUTALEJA AND BUSOLWE

CONSULTANT:

Drawing Title:
TRANSMISSION LINES
TL TO BUSOLWE (CH 35+000.00 - 35+572.13)

Drawn by : Andrew. T	Approved by: Dongwoon OH
Checked by: Dr. Ronald Musenze	Date: December 2021
Scale: As Indicated	Drawing No.: IWMDP/MBA/TL TO BUSOLWE (CH 35+000.00 - 35+572.13)
Sheet No.: 71	Format: A3