



THE WORLD BANK



REPUBLIC OF LEBANON



COUNCIL FOR DEVELOPMENT
AND RECONSTRUCTION

THE GREEN AGRI-FOOD TRANSFORMATION FOR ECONOMIC RECOVERY PROJECT (GATE)

COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION
NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND
AITANIT WASTEWATER TREATMENT PLANT
ICB No: GC2W2C

VOLUME 4 - TENDER DRAWINGS
PART 2 – DRAWINGS FOR AITANIT

SEPTEMBER 2026



SU/YAPI

LIST OF DRAWINGS

DRAWING NO: DRAWING TITLE SCALE

GENERAL

P-2111D-P2-GEN-001	LIST OF DRAWINGS	N.T.S
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PLANS AND PROFILES

P-2111D-P2-WW-PLP-201	WASTEWATER NETWORK BAALLOUL PLAN VIEW & LONGITUDINAL PROFILE LINE BA-BD SHEET (01 OF 05)	A.S.
P-2111D-P2-WW-PLP-202	WASTEWATER NETWORK BAALLOUL PLAN VIEW & LONGITUDINAL PROFILE LINE BA-BD SHEET (02 OF 05)	A.S.
P-2111D-P2-WW-PLP-203	WASTEWATER NETWORK BAALLOUL PLAN VIEW & LONGITUDINAL PROFILE LINE BA-BD SHEET (03 OF 05)	A.S.
P-2111D-P2-WW-PLP-204	WASTEWATER NETWORK BAALLOUL PLAN VIEW & LONGITUDINAL PROFILE LINE BA-BD SHEET (04 OF 05)	A.S.
P-2111D-P2-WW-PLP-205	WASTEWATER NETWORK BAALLOUL PLAN VIEW & LONGITUDINAL PROFILE LINE BA-BD SHEET (05 OF 05)	A.S.
P-2111D-P2-WW-PLP-206	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QD (SHEET 01 OF 03)	A.S.
P-2111D-P2-WW-PLP-207	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QD (SHEET 02 OF 03)	A.S.
P-2111D-P2-WW-PLP-208	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QD (SHEET 03 OF 03)	A.S.
P-2111D-P2-WW-PLP-209	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QE (SHEET 01 OF 02)	A.S.
P-2111D-P2-WW-PLP-210	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QE (SHEET 02 OF 02)	A.S.
P-2111D-P2-WW-PLP-211	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QF	A.S.
P-2111D-P2-WW-PLP-212	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QJ	A.S.
P-2111D-P2-WW-PLP-213	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QK	A.S.
P-2111D-P2-WW-PLP-214	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QL	A.S.
P-2111D-P2-WW-PLP-215	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QN	A.S.
P-2111D-P2-WW-PLP-216	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QP	A.S.
P-2111D-P2-WW-PLP-217	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-A1 (SHEET 01 OF 02)	A.S.
P-2111D-P2-WW-PLP-218	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-A1 (SHEET 02 OF 02)	A.S.
P-2111D-P2-WW-PLP-219	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-A2 (SHEET 01 OF 02)	A.S.
P-2111D-P2-WW-PLP-220	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-A2 (SHEET 02 OF 02)	A.S.
P-2111D-P2-WW-PLP-221	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-A3	A.S.
P-2111D-P2-WW-PLP-222	WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-A4	A.S.

TYPICAL DETAILS DRAWINGS

P-2111D-P2-DET-301	WASTEWATER NETWORK PRECAST MANHOLES REINFORCEMENT & TYPICAL DETAILS SHEET 1 OF 3	1/20
P-2111D-P2-DET-302	WASTEWATER NETWORK PRECAST MANHOLES REINFORCEMENT & TYPICAL DETAILS SHEET 2 OF 3	1/20
P-2111D-P2-DET-303	WASTEWATER NETWORK PRECAST MANHOLES REINFORCEMENT & TYPICAL DETAILS SHEET 3 OF 3	1/20
P-2111D-P2-DET-304	WASTEWATER NETWORK CAST IN SITU MANHOLES REINFORCEMENT & TYPICAL DETAILS SHEET 1 OF 3	1/20
P-2111D-P2-DET-305	WASTEWATER NETWORK CAST IN SITU MANHOLES REINFORCEMENT & TYPICAL DETAILS SHEET 2 OF 3	1/20
P-2111D-P2-DET-306	WASTEWATER NETWORK CAST IN SITU MANHOLES REINFORCEMENT & TYPICAL DETAILS SHEET 3 OF 3	1/20
P-2111D-P2-DET-307	WASTEWATER NETWORK MANHOLES TYPICAL DETAILS	N.T.S
P-2111D-P2-DET-308	WASTEWATER NETWORK TRENCHES TYPICAL DETAILS	N.T.S
P-2111D-P2-DET-309	WASTEWATER NETWORK CAST IN SITU MANHOLES IN RIVER BED REINFORCEMENT & TYPICAL DETAILS	1/20

NOTES:

01		
Rev.	DESCRIPTION	DATE

FUNDING AGENT:



CLIENT:



COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT:

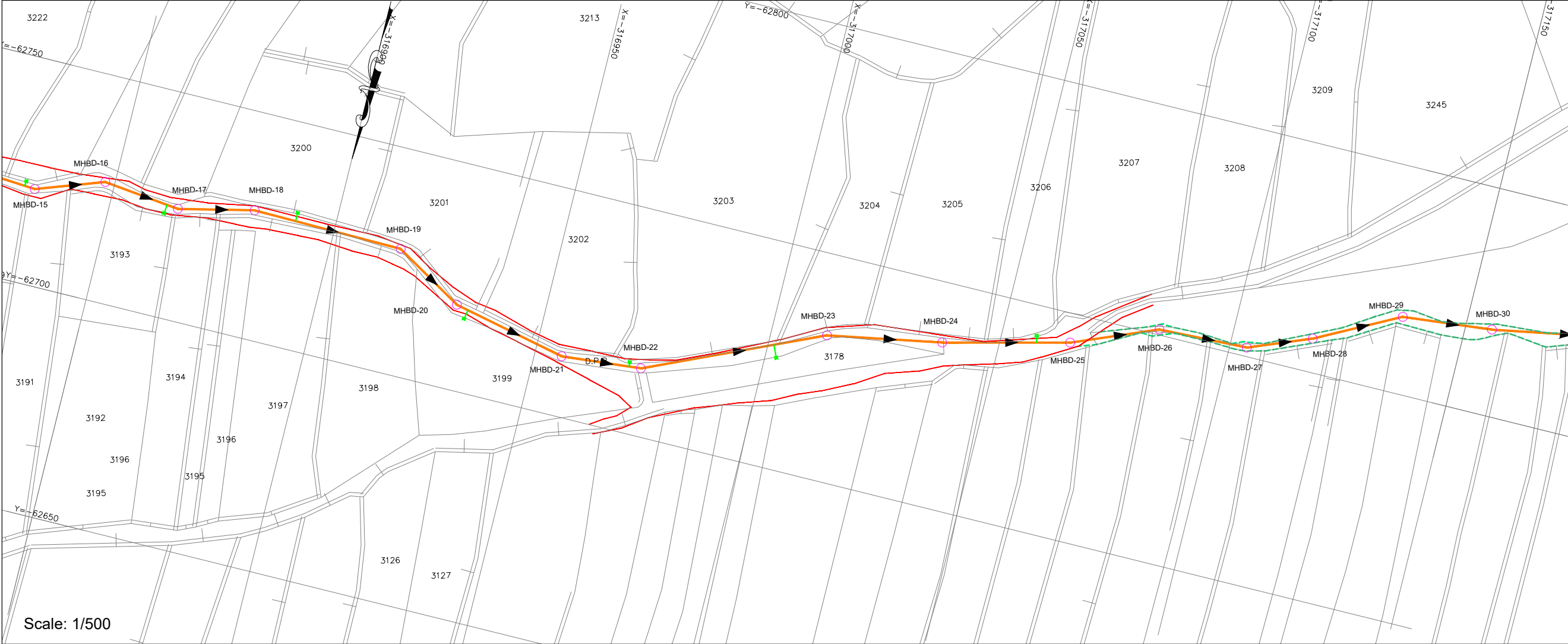


Project Name: P-2111D
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:

LIST OF DRAWINGS

Dwg No.: P-2111D-GEN-001			Rev No.: 00
Date:	SEPTEMBER-2026		Scale: N.T.S
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



- NOTES:
- 1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
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 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

- PROFILE LEGEND:
- PROJECT LEVEL
 - PIPE LAYOUT
 - MANHOLE
 - EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER

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Project Name: P-2111D

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Drawing Title:

WASTEWATER NETWORK
BAALOUL
PLAN VIEW & LONGITUDINAL PROFILE
LINE BA-BD
SHEET (02 OF 05)

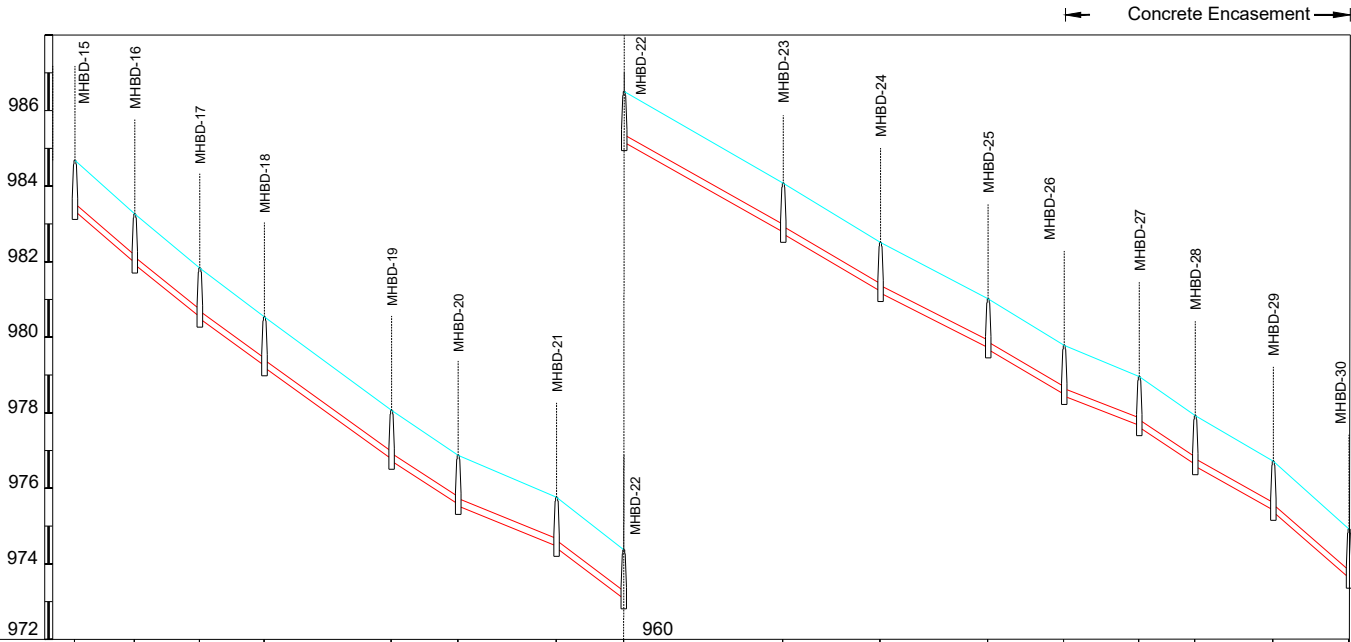
Dwg No.: P-2111D-P2-WW-PLP-202

Rev No.: 00

Date: SEPTEMBER-2026

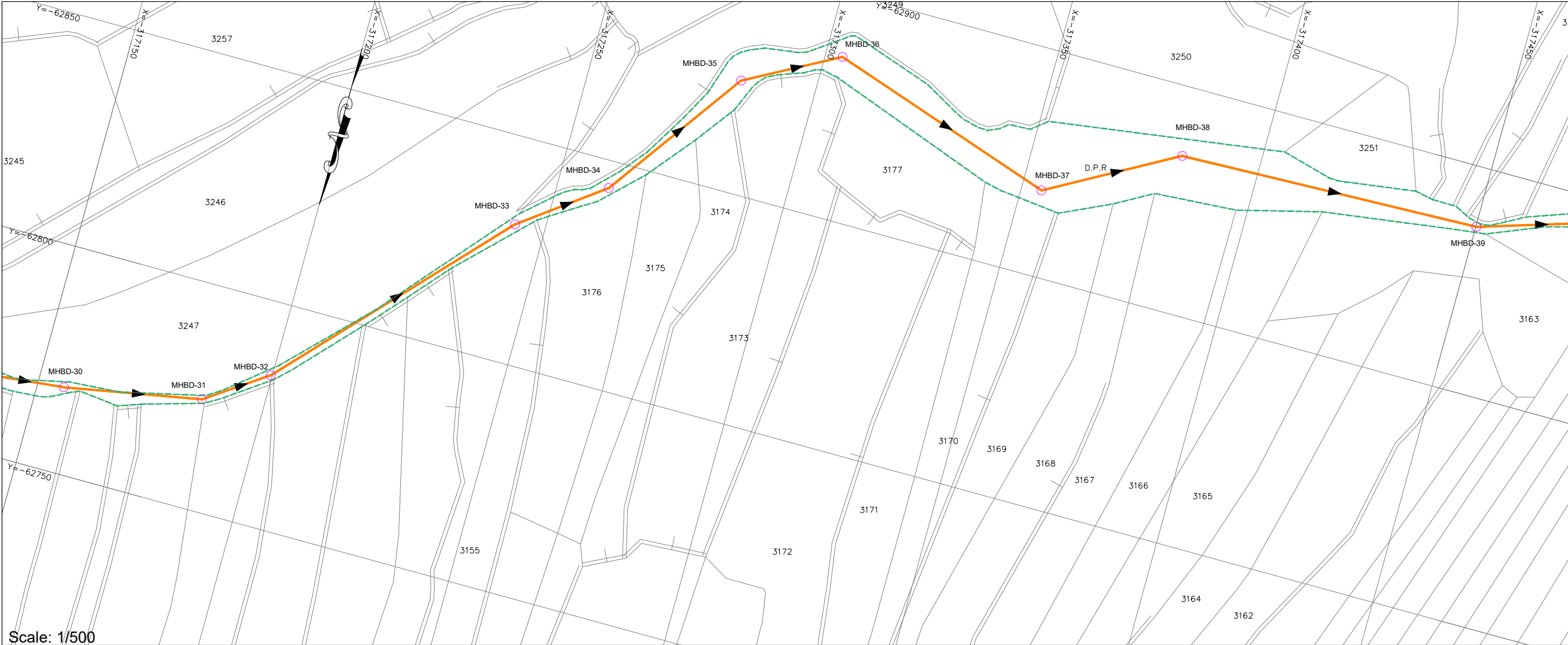
Scale: A.S.

Drawn: O.D. Designed: M.N. Checked: R.S. Approved: G.K.



INVERT LEVEL (m)	983.46	982.10	982.05	980.66	980.61	979.37	979.32		976.90	976.85	975.70	975.65		974.60	974.55	973.20	973.15		970.78	970.73	969.21	969.16		967.72	967.67	966.48	966.43		965.96	965.61	964.82	964.57		963.41	963.36		961.62
GROUND LEVEL (m) (m)		983.39		981.96		980.67			978.19		977.00			975.89		974.50			972.07		970.50			969.01		967.78	967.78		966.95	965.92		964.71			962.91		
SLOPE %	8.63%	8.03%	7.24%		7.20%		6.48%	4.06%		7.52%		5.64%		5.89%		5.06%		5.88%	3.89%	6.64%	5.61%	8.69%															
DIAMETER OF PIPE (mm)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	
PARTIALI DISTANCE (m)	15.84	17.23	17.12		33.69	17.64	26.06	17.86		42.14	25.75	28.53	20.13	19.88	14.83	20.67	20.08																				
CUMULATIVE DISTANCE (m)	308.76	324.59	341.83	358.95	392.64	410.28	436.34	454.19		496.34	522.08	550.62	570.75	590.63	605.46	626.13	646.21																				

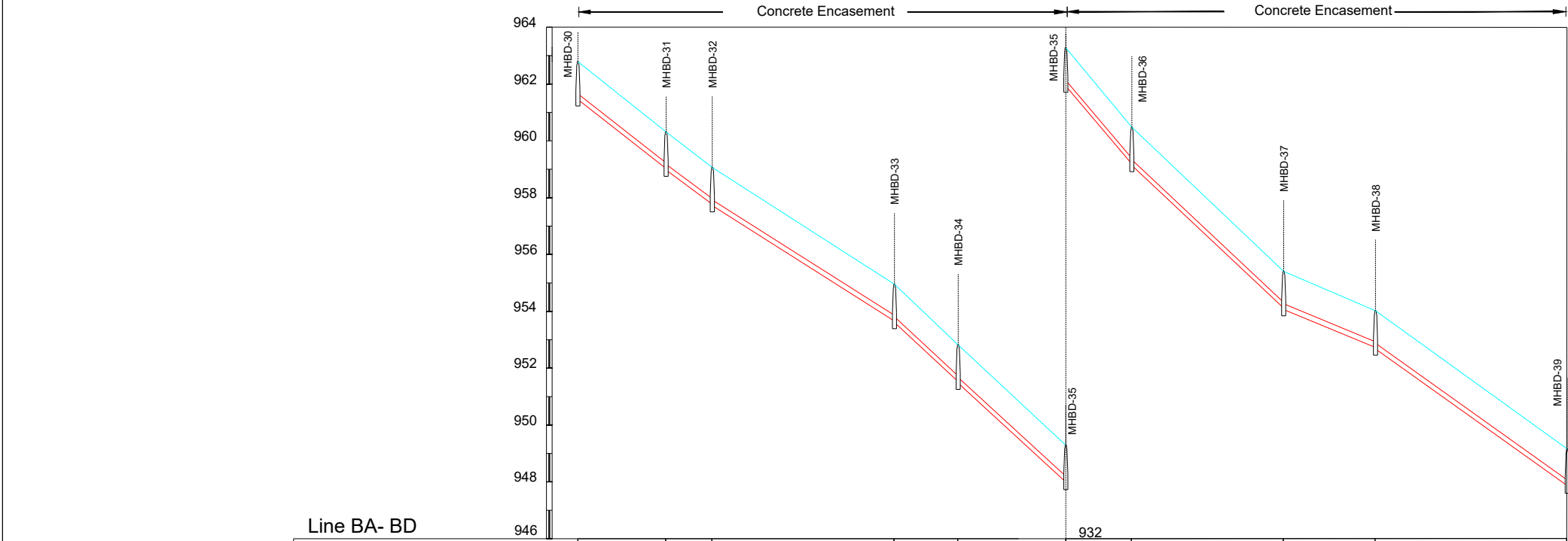
Scale: 1/1000



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 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

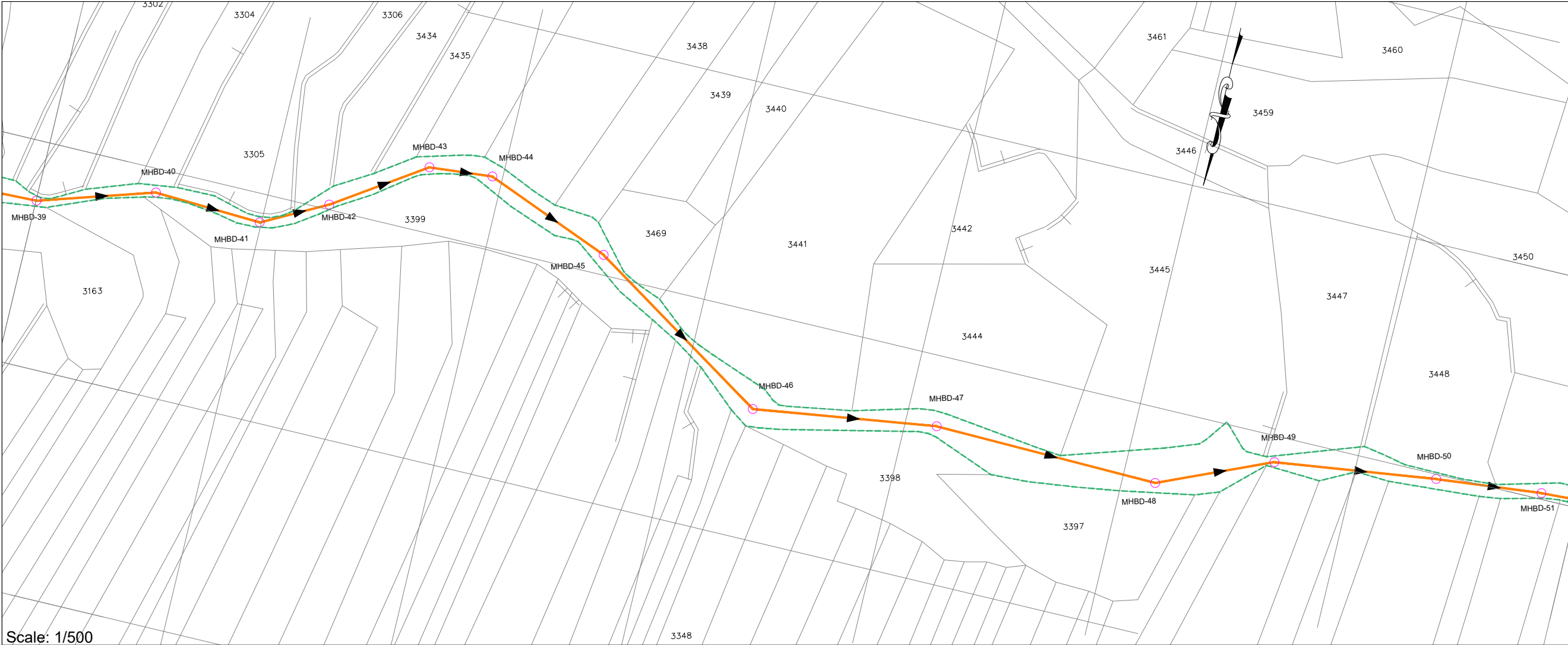
- PROFILE LEGEND:
- EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER



Line BA- BD

INVERT LEVEL (m)	961.57	959.15	959.10	957.90	957.95	953.78	953.73	951.65	951.60	948.12	948.07	945.33	945.28	940.26	940.21	938.87	938.82	934.01
GROUND LEVEL (m)		960.44	959.10	959.19		955.08		952.94		949.41		946.62		941.55		940.16		935.30
SLOPE %		7.85%	7.39%			6.34%		9.31%	9.15%	11.80%		9.40%		4.14%		7.14%		
DIAMETER OF PIPE (mm)		200	200			200		200	200	200		200		200		200		
PARTIALI DISTANCE (m)		30.84	16.27			64.07		22.40	38.02	23.23		53.40		32.32		67.42		
CUMULATIVE DISTANCE (m)	646.21	677.05	693.32			757.39		779.78		817.80	841.02			894.42		926.74		984.17

01			
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Project Name: P-2111D			
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Drawing Title:			
WASTEWATER NETWORK BAALOUL PLAN VIEW & LONGITUDINAL PROFILE LINE BA-BD SHEET (03 OF 05)			
Dwg No.: P-2111D-P2-WW-PLP-203		Rev No.: 00	
Date: SEPTEMBER-2026		Scale: A.S.	
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

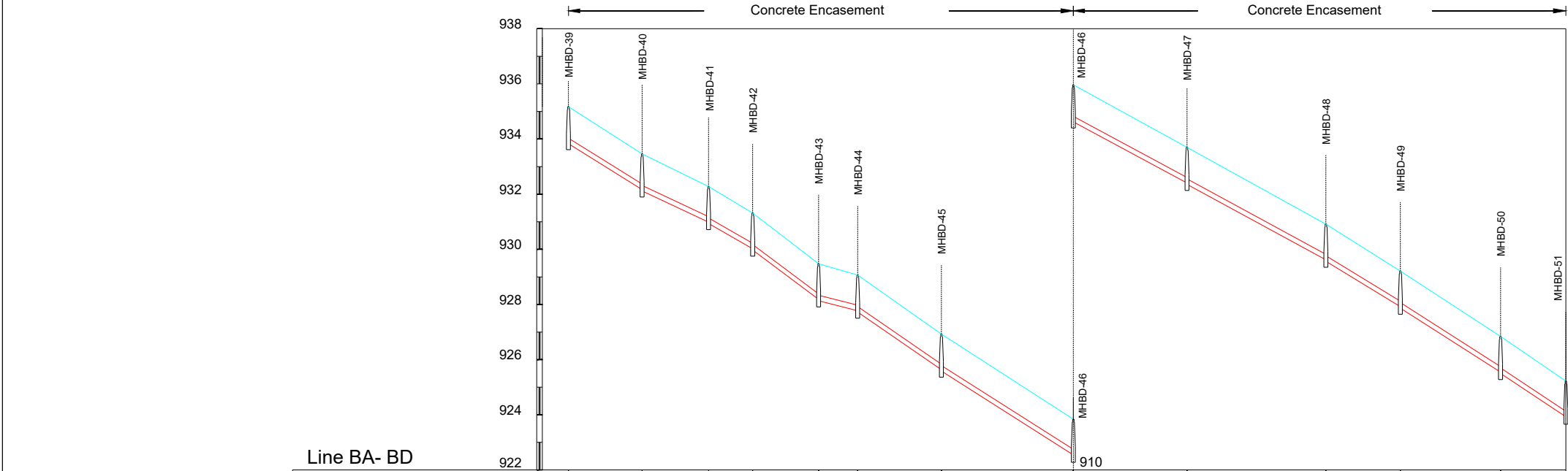


Scale: 1/500

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 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - ZH-TA-8
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

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Line BA- BD

INVERT LEVEL (m)	933.96	932.29	932.24	931.11	931.06	930.15	930.10	928.31	928.26	927.80	927.85	925.76	925.71	922.67	922.62	920.40	920.35	917.62	917.57	915.92	915.87	913.55	913.50	911.93
GROUND LEVEL (m)		933.58		932.40		931.44		929.80		929.19		927.05		923.96		921.70		918.91		917.21		914.84		913.22
SLOPE %	6.24%	4.70%	5.72%	7.49%	2.54%	6.89%		6.35%		5.39%		5.44%		6.11%		6.39%		6.63%						
DIAMETER OF PIPE (mm)	200	200	200	200	200	200		200		200		200		200		200		200		200		200		200
PARTIALI DISTANCE (m)	26.69	24.08	15.99	23.87	14.18	30.34		47.80		41.18		50.33		26.99		36.29		23.67						
CUMULATIVE DISTANCE (m)	994.17	1020.85		1044.93		1060.92		1084.79		1098.97		1129.31		1177.11		1218.29		1268.63		1295.62		1331.91		1355.58

Scale: 1/1000

01		
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CONSULTANT:



Project Name: P-2111D

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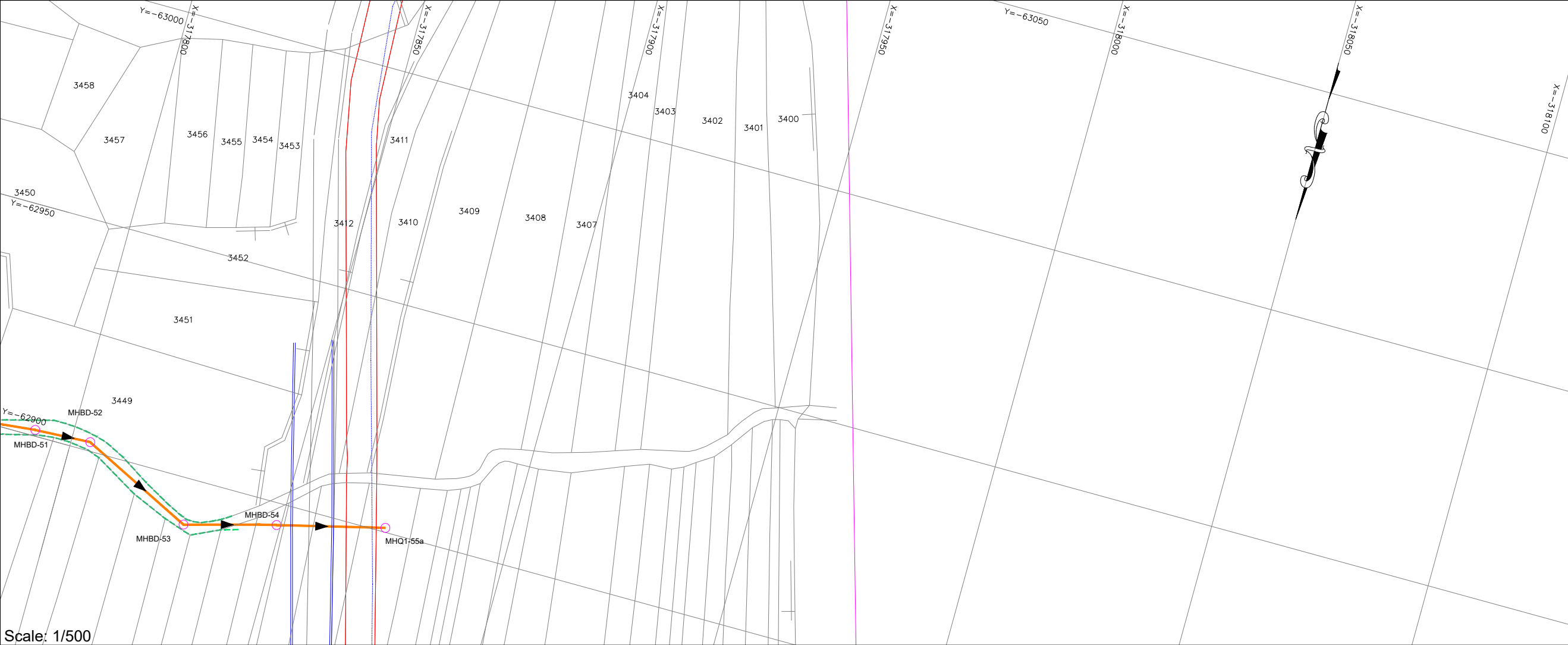
Drawing Title:

WASTEWATER NETWORK
BAALOUL
PLAN VIEW & LONGITUDINAL PROFILE
LINE BA-BD
SHEET (04 OF 05)

Dwg No.: P-2111D-P2-WW-PLP-204 Rev No.: 00

Date: SEPTEMBER-2026 Scale: A.S.

Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



Scale: 1/500

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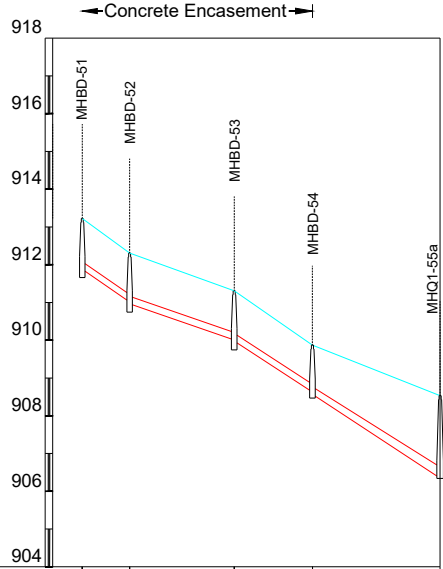
Drawing Title:

WASTEWATER NETWORK
BAALLOUL
PLAN VIEW & LONGITUDINAL PROFILE
LINE BA-BD
SHEET (05 OF 05)

Dwg No.: P-2111D-P2-WW-PLP-205 Rev No.: 00

Date: SEPTEMBER-2026 Scale: A.S.

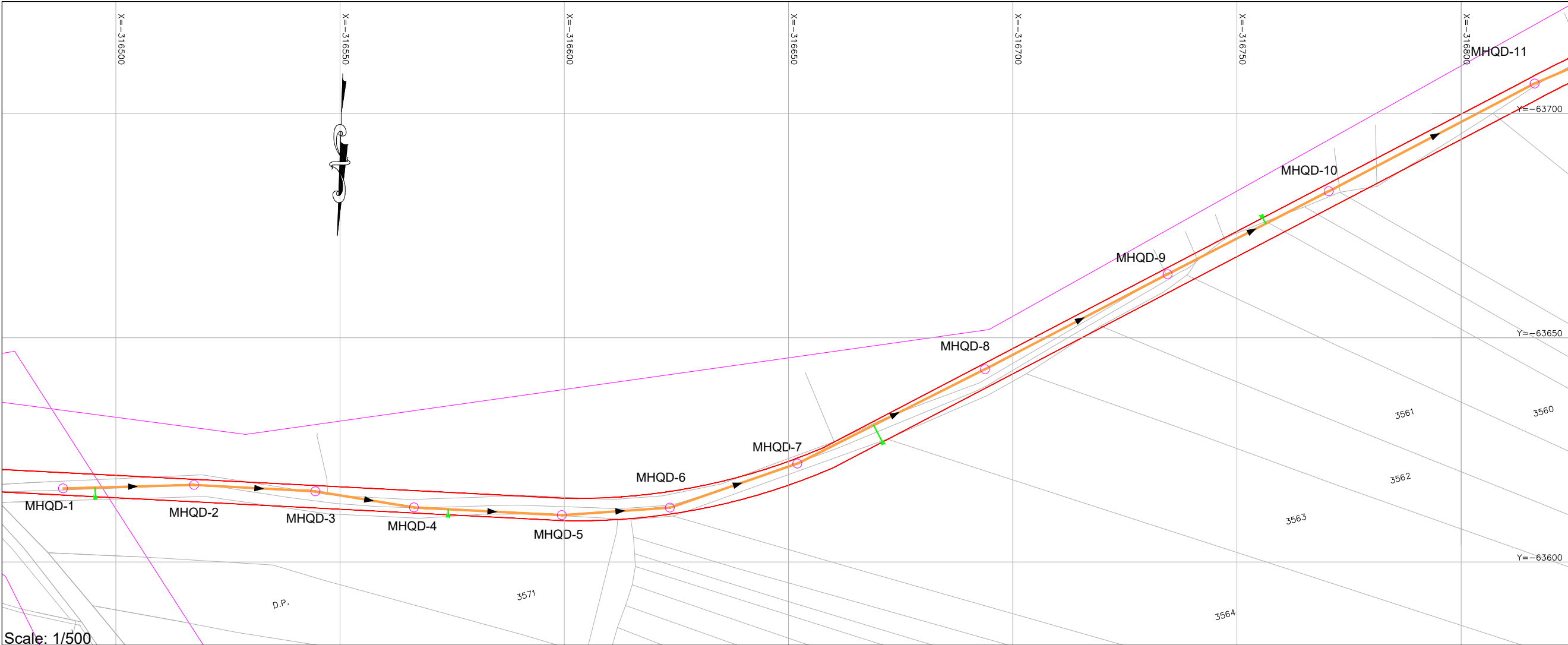
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Line BA- BD

INVERT LEVEL (m)	911.88	911.01	910.01	908.57	906.39
GROUND LEVEL (m)	912.31	911.31	909.87	908.53	
SLOPE %	6.90%	3.45%	6.71%	8.78 %	
DIAMETER OF PIPE (mm)	200	200	200	200	
PARTIALI DISTANCE (m)	12.56	27.70	20.73	24.25	
CUMULATIVE DISTANCE (m)	1355.58	1368.14	1395.83	1416.57	1440.82

Scale: 1/1000

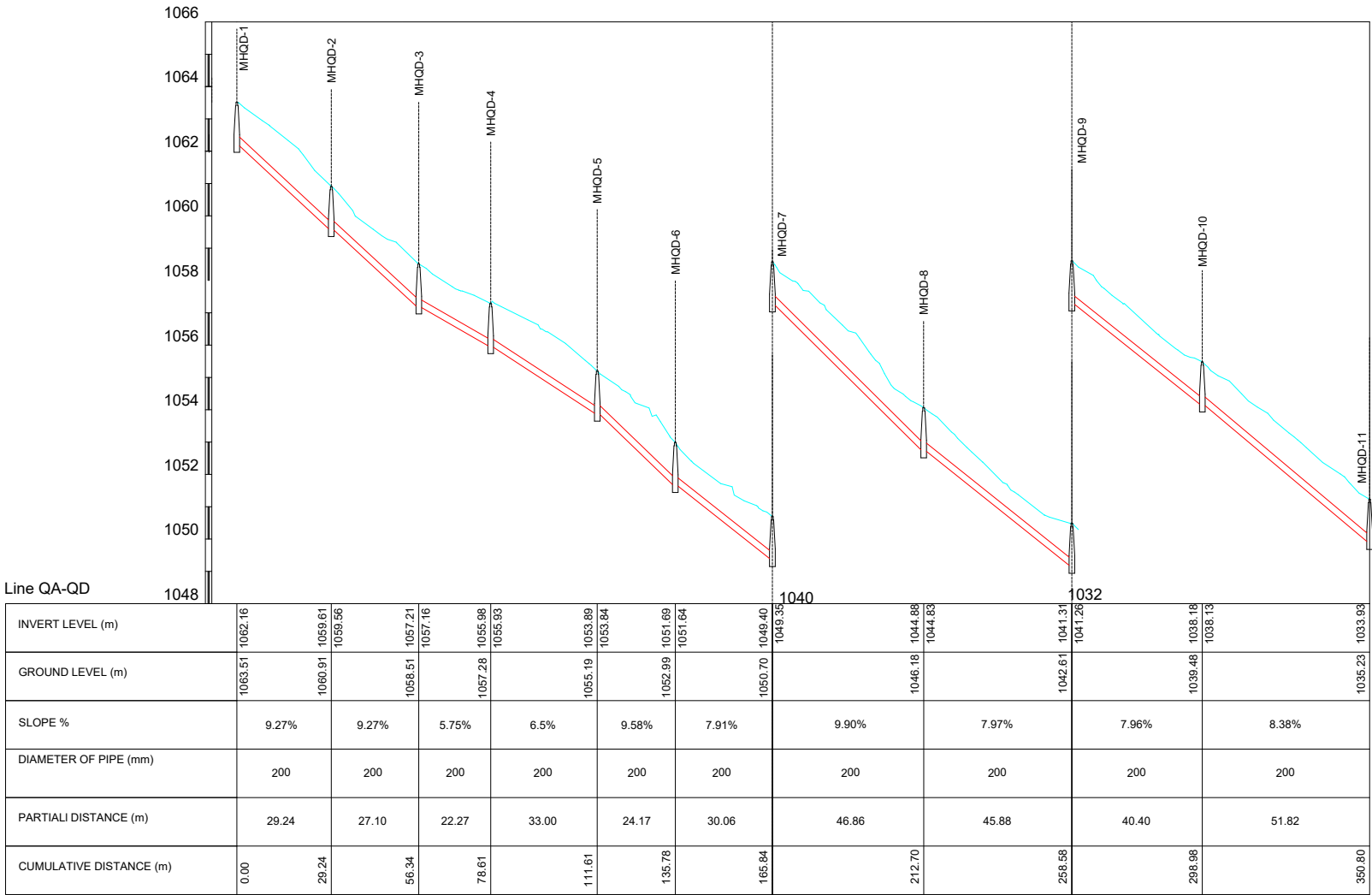


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 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

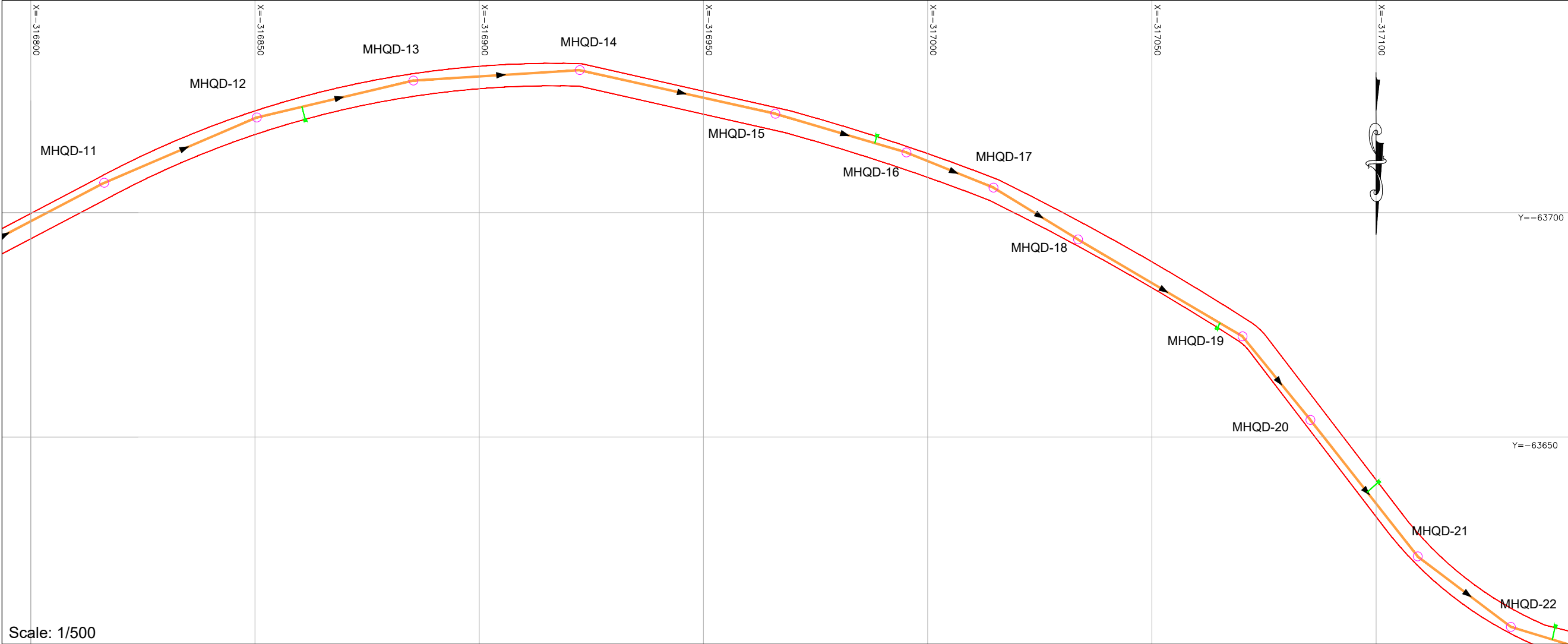
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 - RIVER

Scale: 1/500



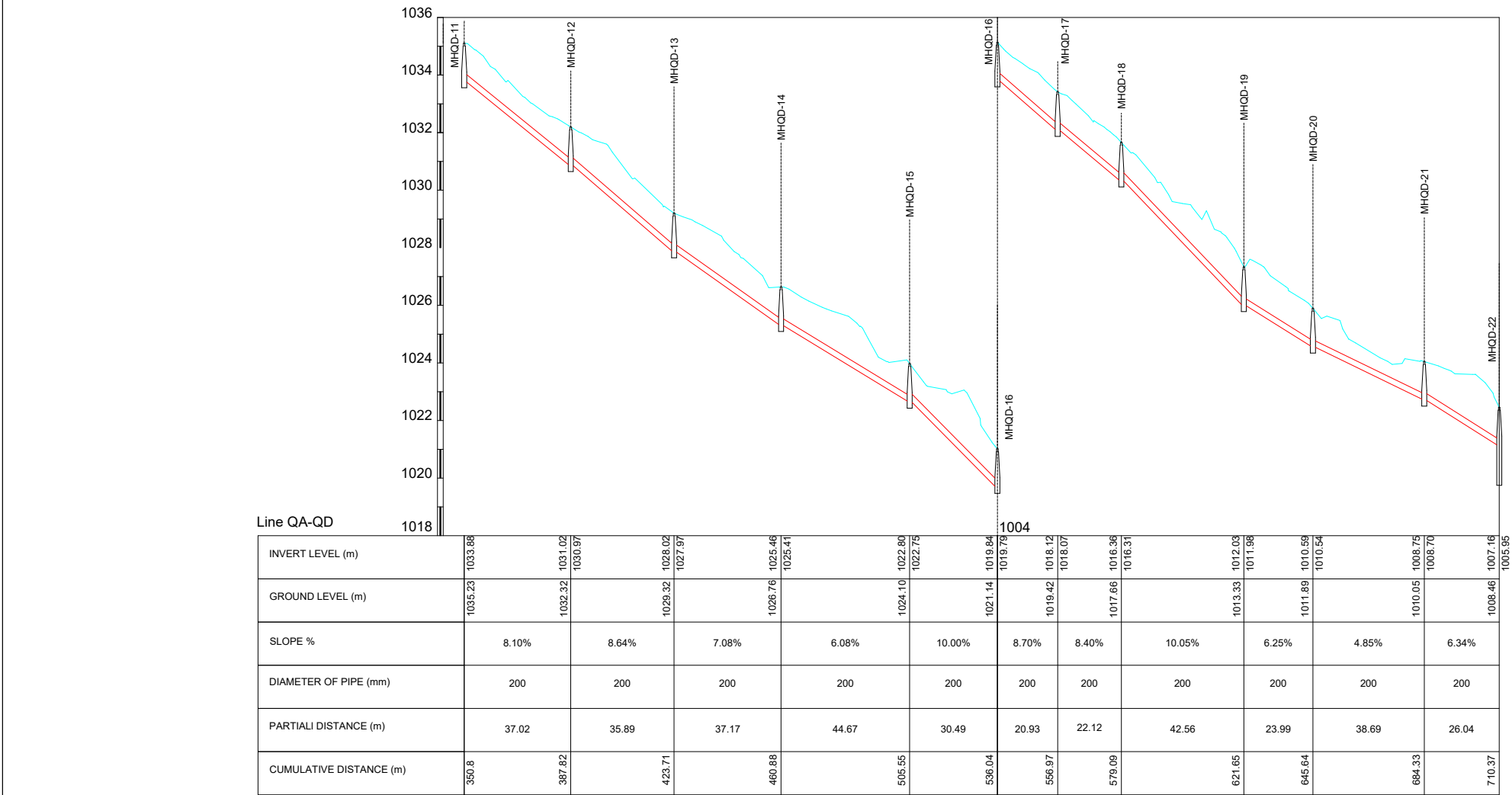
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01			
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WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QD (SHEET 01 OF 03)			
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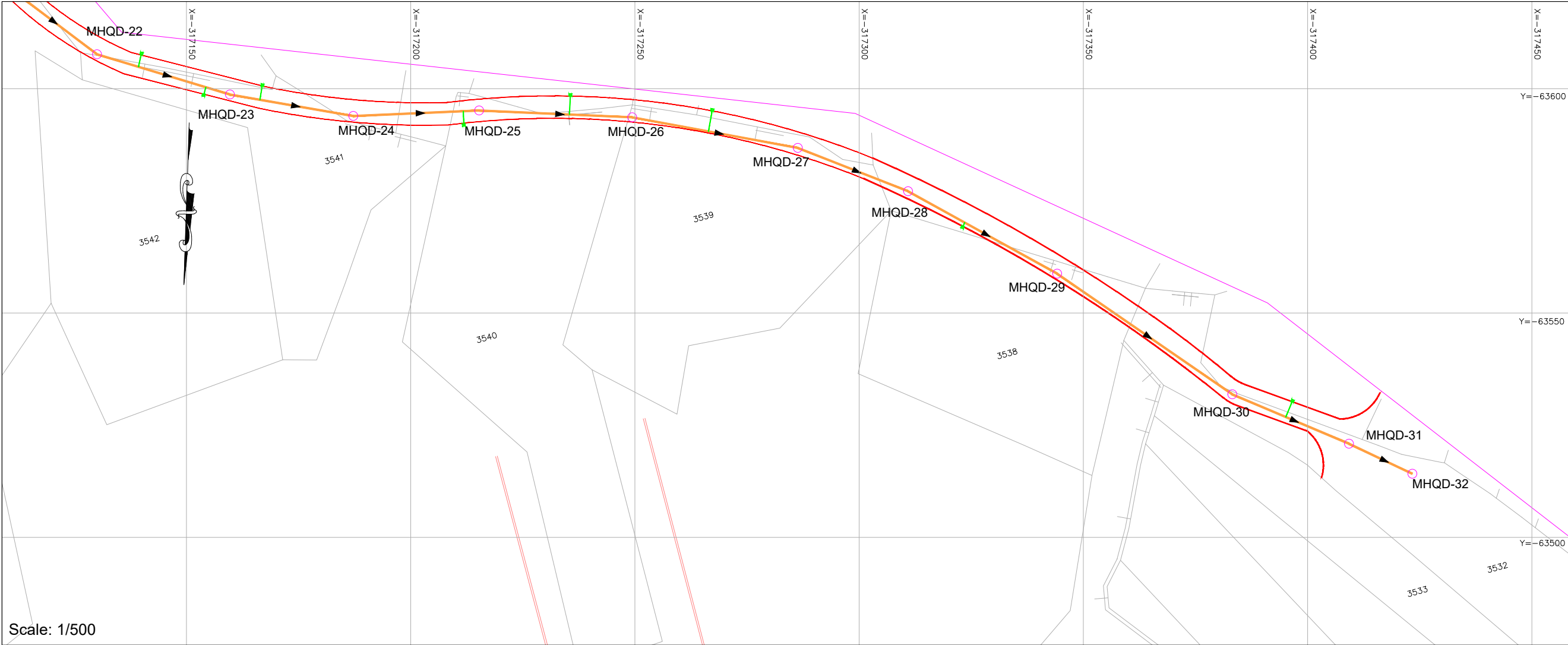


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 - 4- PROVIDE CONCRETE PROTECTION FOR PIPES ACCORDING TO DRAWING OR WHERE REQUIRED BY THE ENGINEER.
 - 5- FINAL LOCATION OF MANHOLES AND PIPES ARE TO BE DETERMINED ON SITE AND SHALL BE APPROVED BY THE ENGINEER TO SUIT EXISTING SERVICES.
 - 6- PIPES ROUTE MUST BE LOCATED EXCLUSIVELY IN PUBLIC DOMAIN.
- PLAN LEGEND:
- PROPOSED WASTEWATER UPVC PIPE-200mm
 - PROPOSED WASTEWATER UPVC PIPE-250mm
 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

- PROFILE LEGEND:
- PROJECT LEVEL
 - PIPE LAYOUT
 - MANHOLE
 - EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER



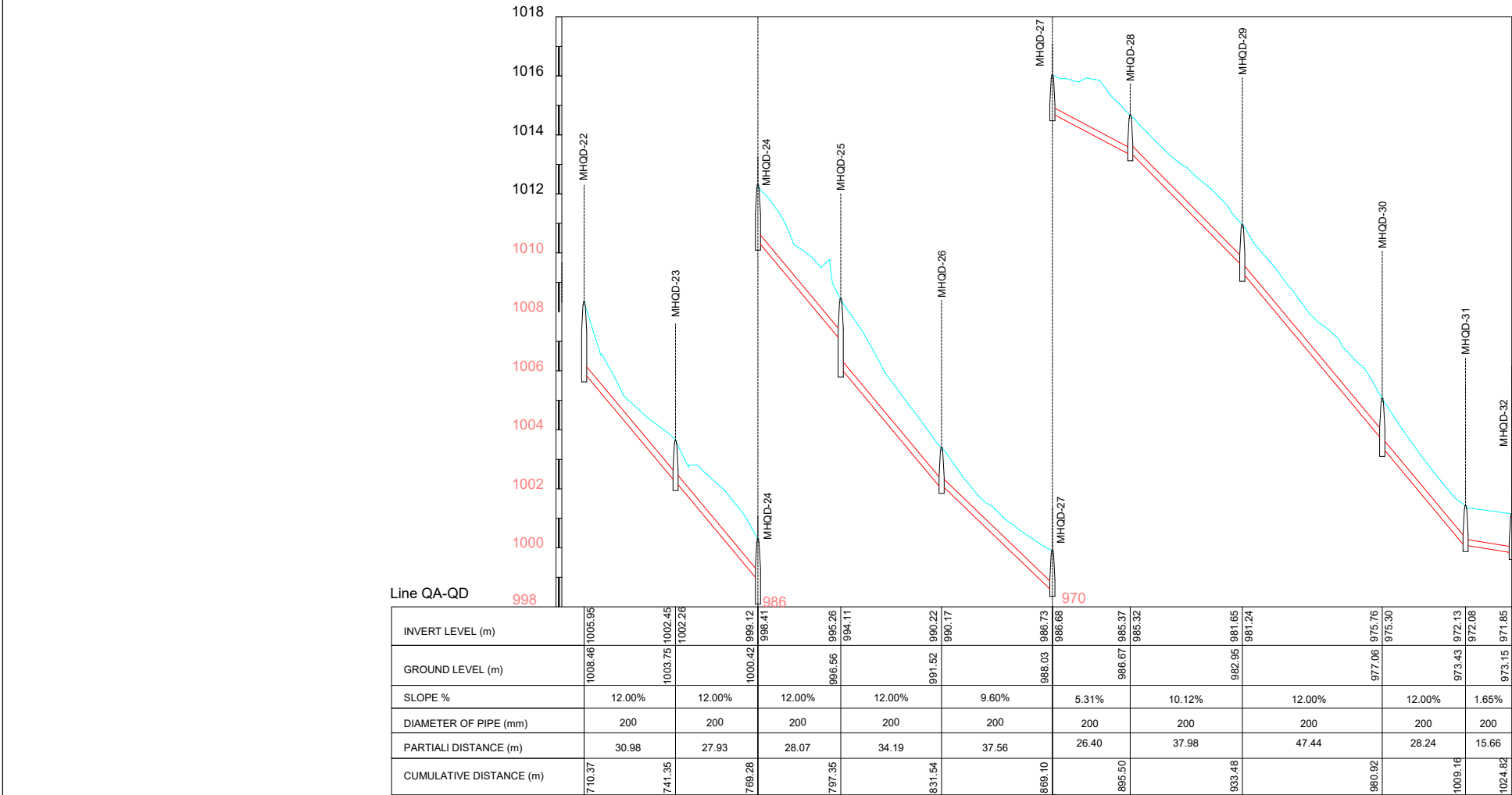
01			
Rev.	DESCRIPTION	DATE	
FUNDING AGENT:			
 THE WORLD BANK			
CLIENT:			
 COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION			
CONSULTANT:			
			
Project Name: P-2111D			
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)			
Drawing Title:			
WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QD (SHEET 02 OF 03)			
Dwg No.: P-2111D-P2-WW-PLP-207		Rev No.: 00	
Date: SEPTEMBER-2026		Scale: A.S.	
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



- NOTES:**
- 1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
 - 2- DIMENSIONS MUST NOT BE SCALED ON THIS DRAWING.
 - 3- THE LENGTH OF PIPE IS MEASURED FROM THE CENTER OF MANHOLE TO THE CENTER OF MANHOLE.
 - 4- PROVIDE CONCRETE PROTECTION FOR PIPES ACCORDING TO DRAWING OR WHERE REQUIRED BY THE ENGINEER.
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 - 6- PIPES ROUTE MUST BE LOCATED EXCLUSIVELY IN PUBLIC DOMAIN.

- PLAN LEGEND:**
- PROPOSED WASTEWATER UPVC PIPE-200mm
 - PROPOSED WASTEWATER UPVC PIPE-250mm
 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

- PROFILE LEGEND:**
- PROJECT LEVEL
 - PIPE LAYOUT
 - MANHOLE
 - EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER



01		
Rev.	DESCRIPTION	DATE

FUNDING AGENT:



CLIENT:



COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

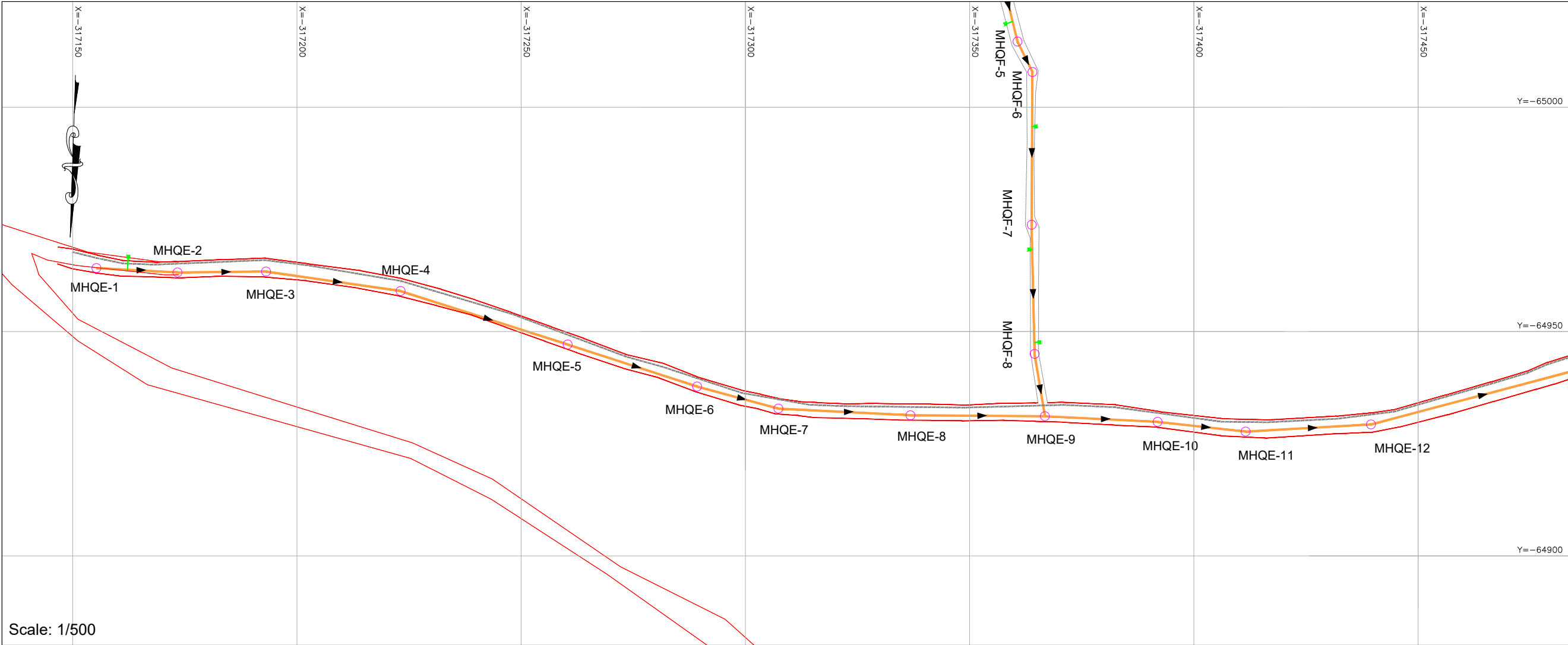
CONSULTANT:



Project Name: P-2111D
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:
WASTEWATER NETWORK
QARAOUN
PLAN VIEW & LONGITUDINAL PROFILE
LINE QA-QD
(SHEET 03 OF 03)

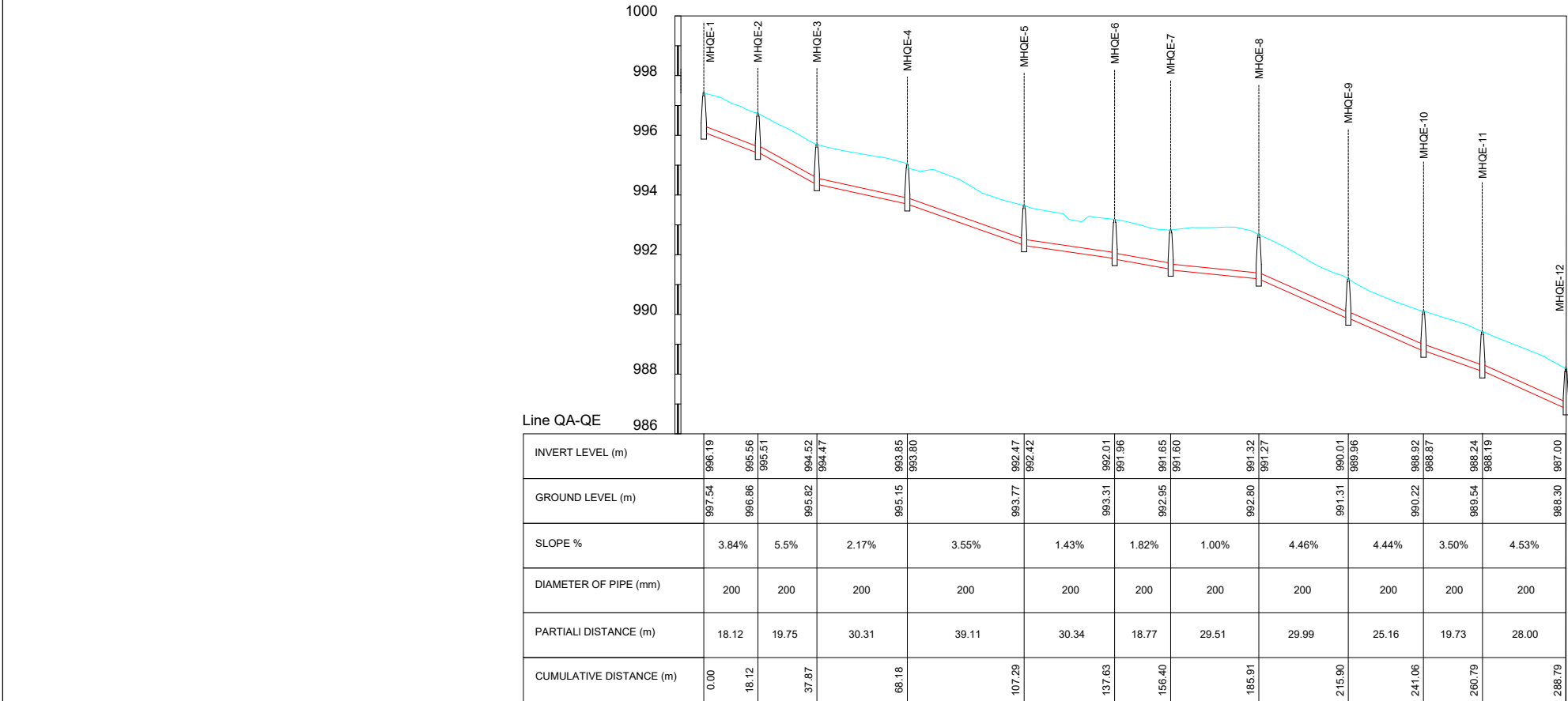
Dwg No.:	P-2111D-P2-WW-PLP-208	Rev No.:	00
Date:	SEPTEMBER-2026	Scale:	A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



- NOTES:
- 1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
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 - 3- THE LENGTH OF PIPE IS MEASURED FROM THE CENTER OF MANHOLE TO THE CENTER OF MANHOLE.
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- PLAN LEGEND:
- PROPOSED WASTEWATER UPVC PIPE-200mm
 - PROPOSED WASTEWATER UPVC PIPE-250mm
 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

- PROFILE LEGEND:
- PROJECT LEVEL
 - PIPE LAYOUT
 - MANHOLE
 - EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER



01		
Rev.	DESCRIPTION	DATE

FUNDING AGENT:



CLIENT:



CONSULTANT:



Project Name: P-2111D

COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:

WASTEWATER NETWORK QARAOUN
PLAN VIEW & LONGITUDINAL PROFILE
LINE QA-QE
(SHEET 01 OF 02)

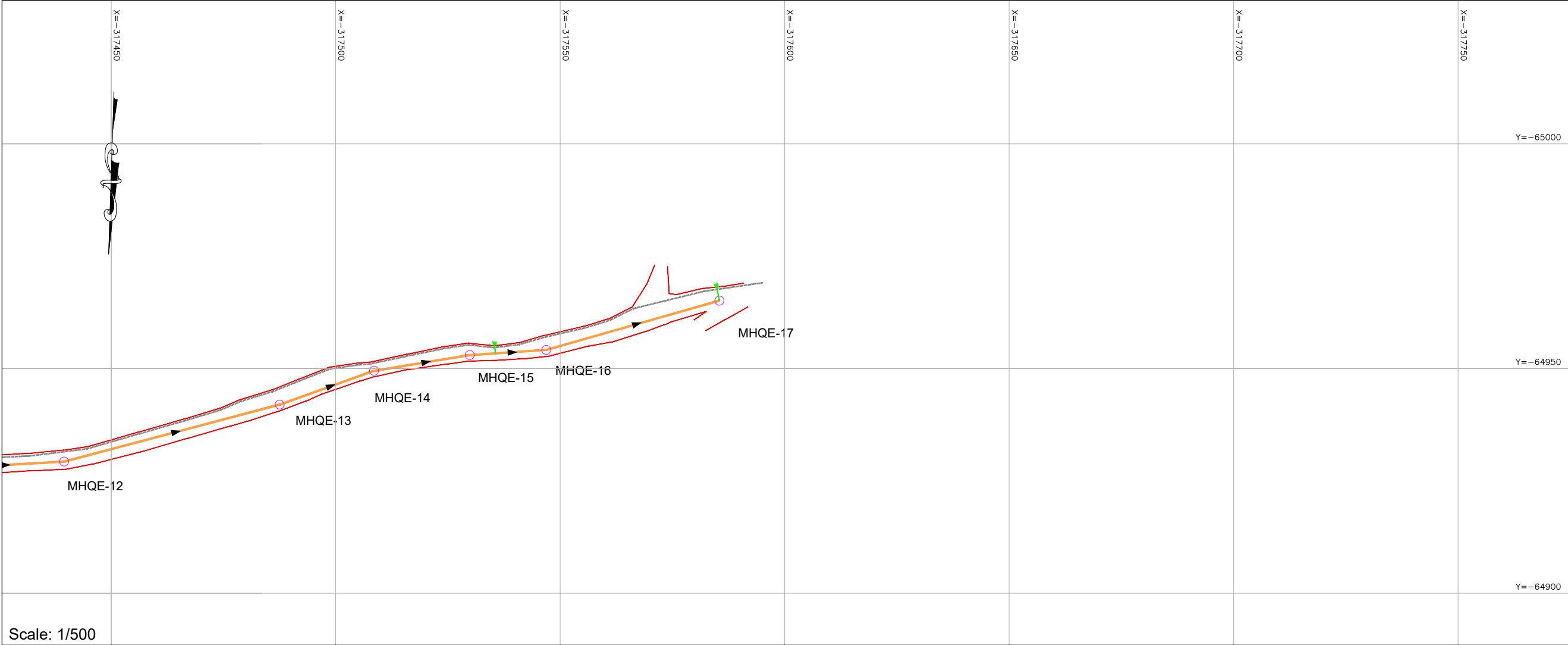
Dwg No.: P-2111D-P2-WW-PLP-209

Date: SEPTEMBER-2026

Rev No.: 00

Scale: A.S.

Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



- NOTES:
- 1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
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- PLAN LEGEND:
- PROPOSED WASTEWATER UPVC PIPE-200mm
 - PROPOSED WASTEWATER UPVC PIPE-250mm
 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

- PROFILE LEGEND:
- EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER

01		
Rev.	DESCRIPTION	DATE

FUNDING AGENT:



CLIENT:



CONSULTANT:



Project Name: P-2111D

COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:

WASTEWATER NETWORK
QARAOUN
PLAN VIEW & LONGITUDINAL PROFILE
LINE QA-QE
(SHEET 02 OF 02)

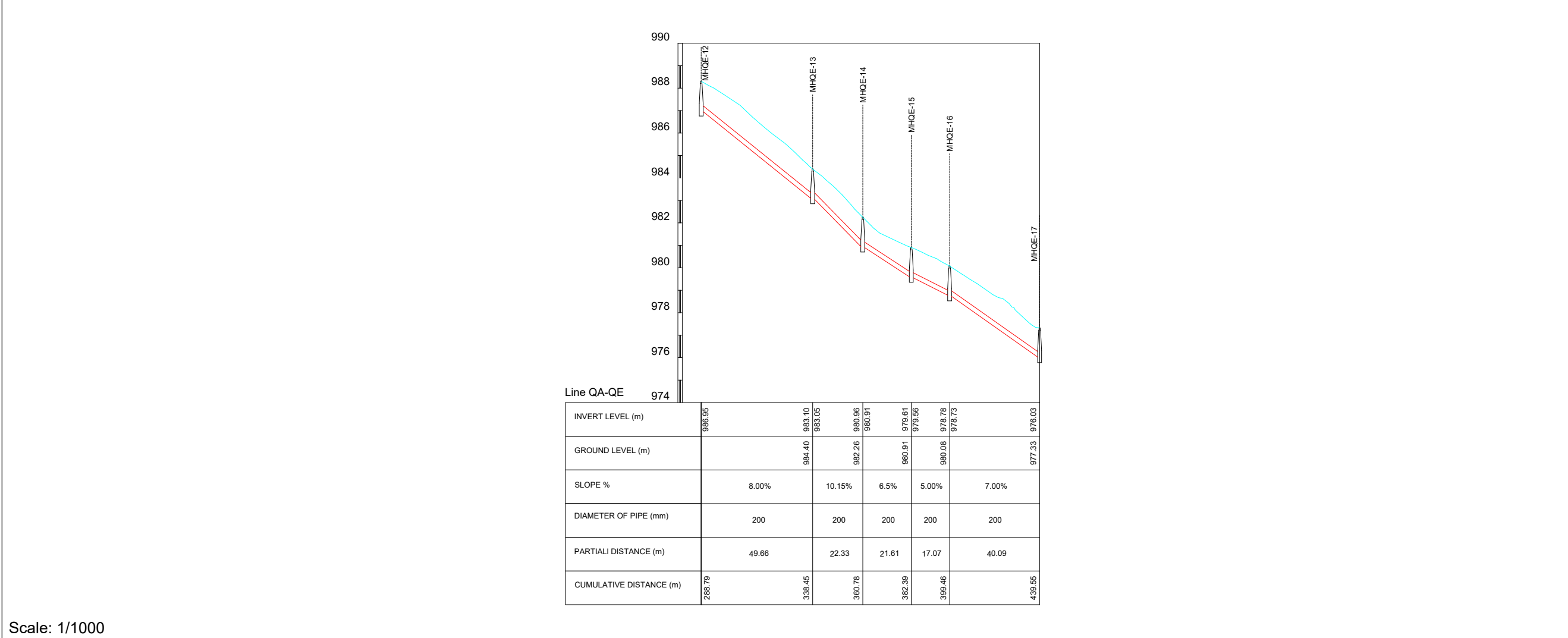
Dwg No.: P-2111D-P2-WW-PLP-210

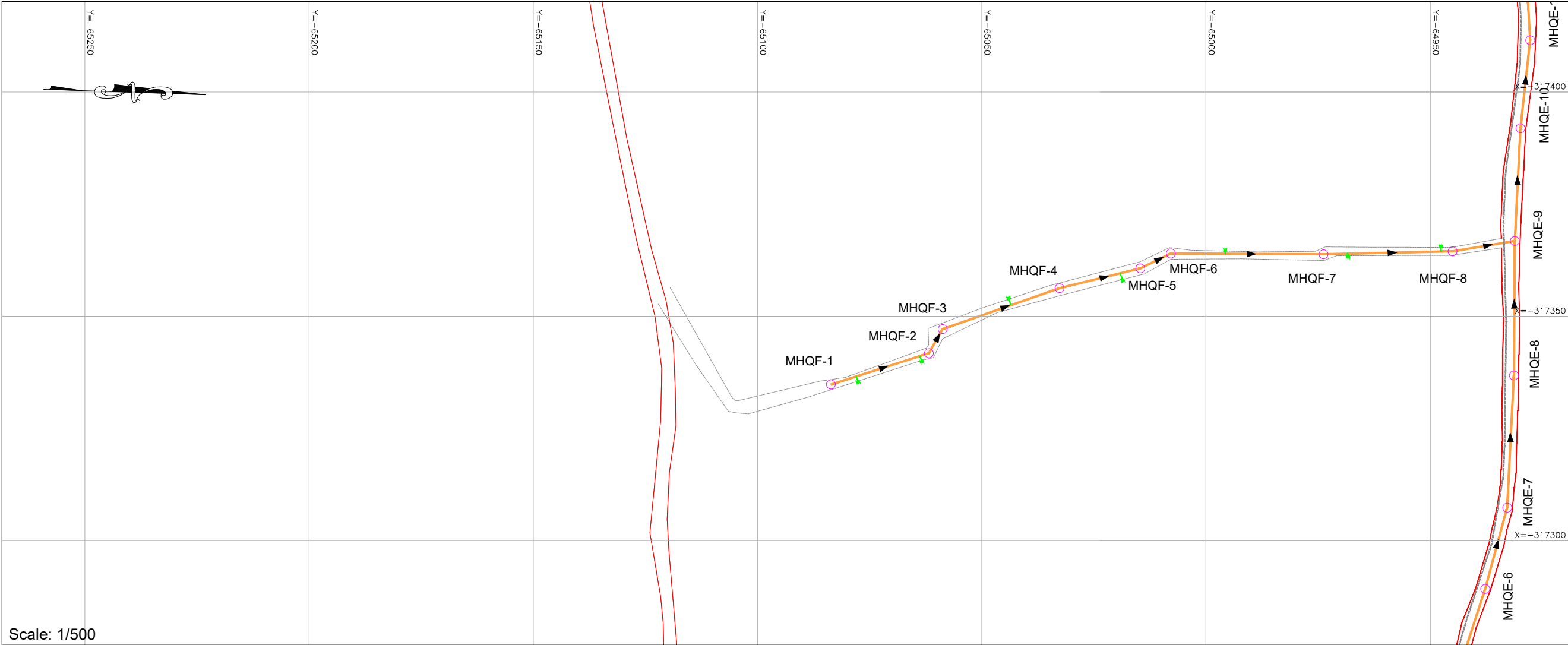
Date: SEPTEMBER-2026

Rev No.: 00

Scale: A.S.

Drawn: O.D. Designed: M.N. Checked: R.S. Approved: G.K.



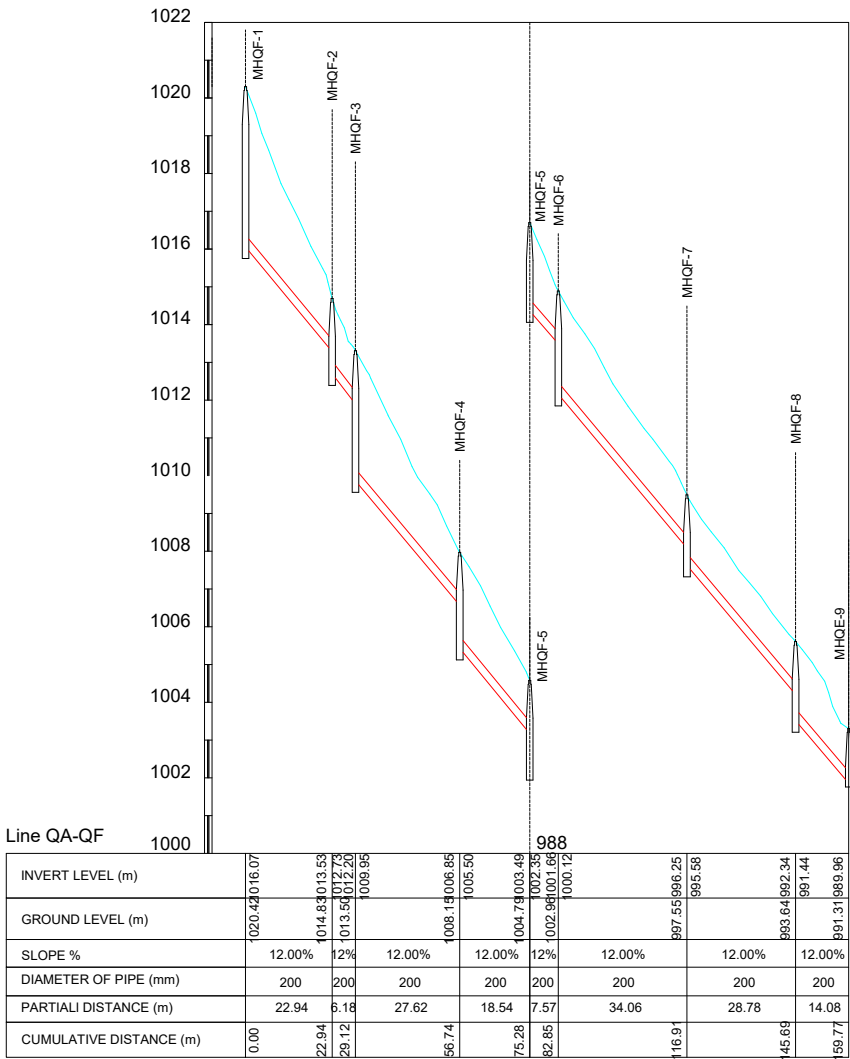


- NOTES:
- 1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
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- PROPOSED WASTEWATER UPVC PIPE-200mm
 - PROPOSED WASTEWATER UPVC PIPE-250mm
 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

- PROFILE LEGEND:
- PROJECT LEVEL
 - PIPE LAYOUT
 - MANHOLE
 - EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER

Scale: 1/500



Scale: 1/1000

01		
Rev.	DESCRIPTION	DATE

FUNDING AGENT:



CLIENT:



COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT:



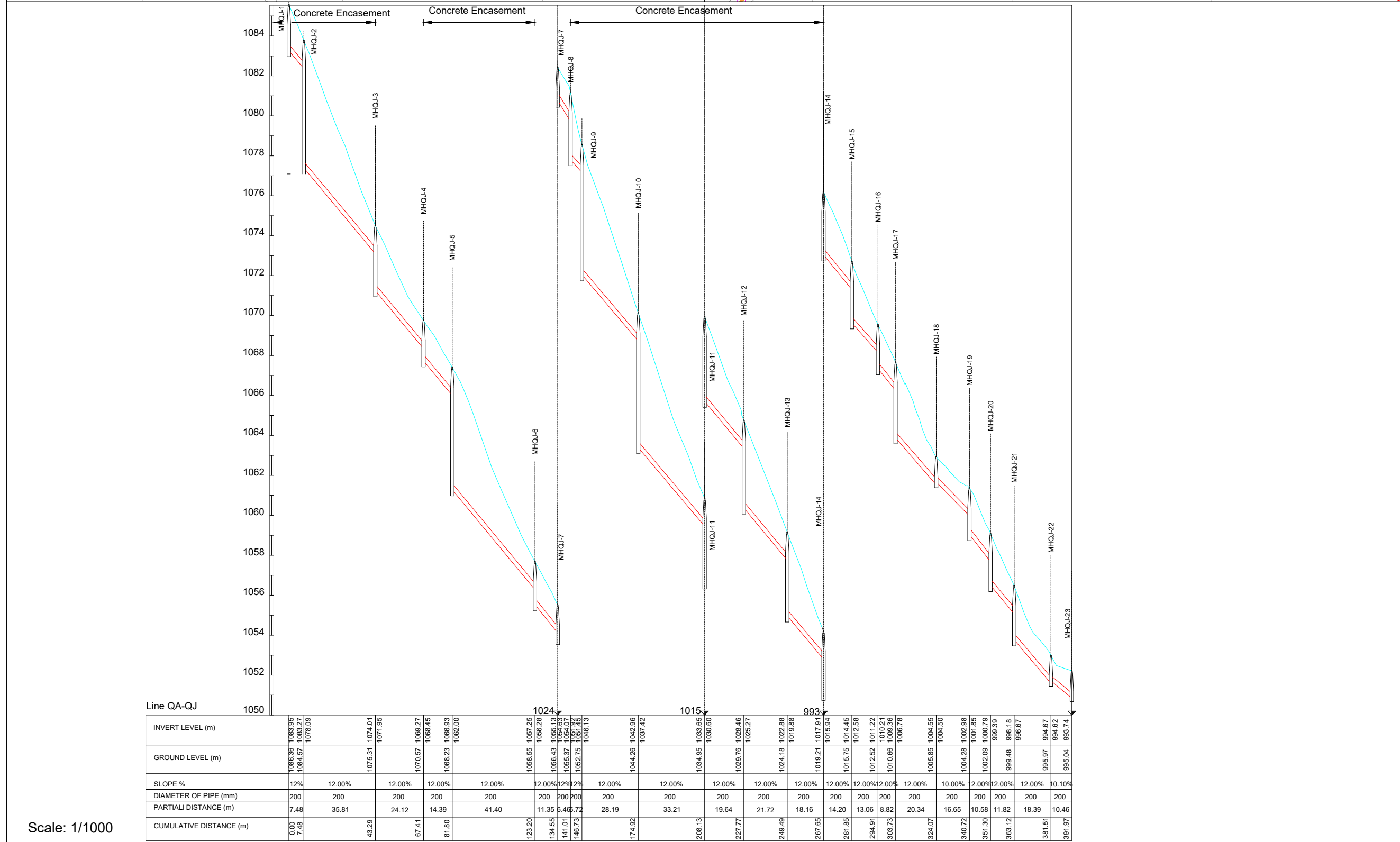
Project Name: P-2111D

COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:

WASTEWATER NETWORK QARAOUN
PLAN VIEW & LONGITUDINAL PROFILE
LINE QA-QF

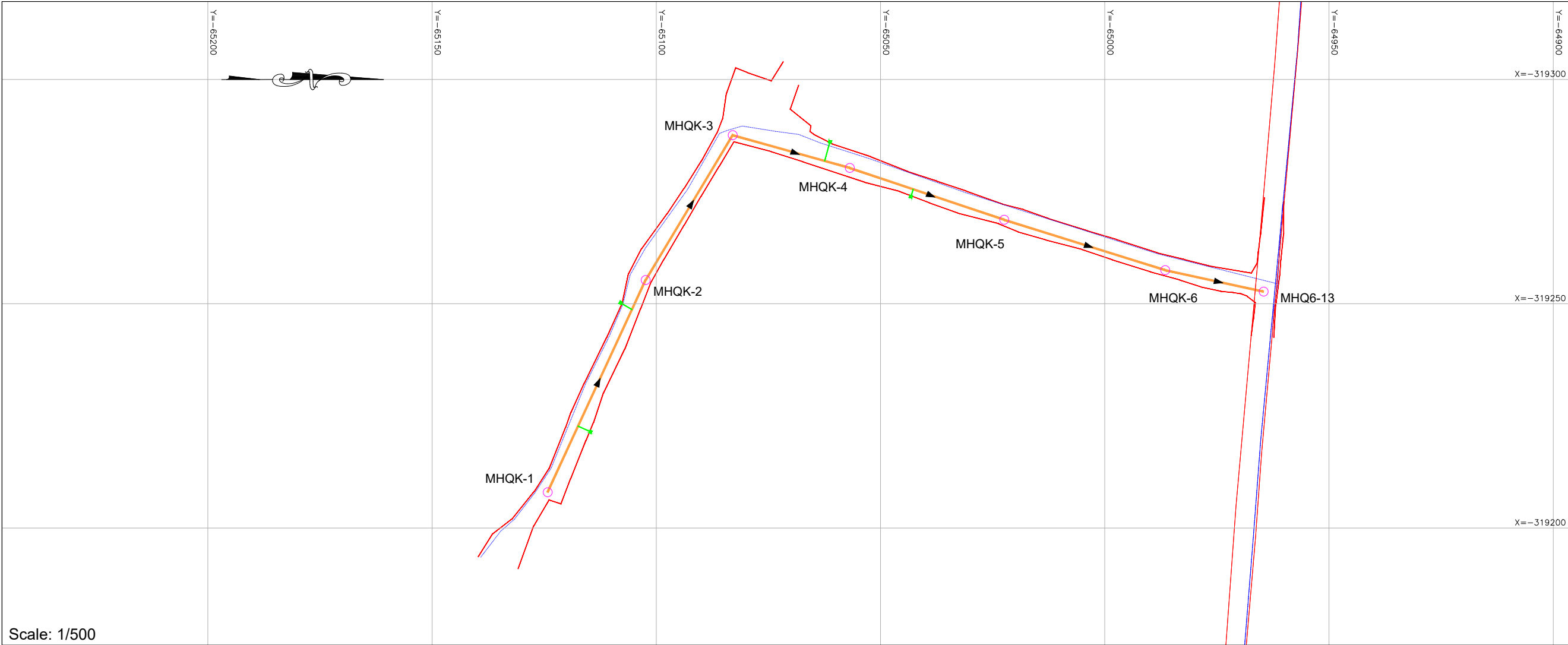
Dwg No.: P-2111D-P2-WW-PLP-211			Rev No.: 00
Date: SEPTEMBER-2026			Scale: A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



-
- PROFILE LEGEND:**
- EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER

Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

Scale: 1/1000



NOTES:

1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.

2- DIMENSIONS MUST NOT BE SCALED ON THIS DRAWING.

3- THE LENGTH OF PIPE IS MEASURED FROM THE CENTER OF MANHOLE TO THE CENTER OF MANHOLE.

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PLAN LEGEND:

PROPOSED WASTEWATER UPVC PIPE-200mm

PROPOSED WASTEWATER UPVC PIPE-250mm

PROPOSED WASTEWATER UPVC PIPE-300mm

PROPOSED WASTEWATER CONCRETE PIPE-500mm

PROPOSED WASTEWATER CONCRETE PIPE-600mm

ZH-TA-8

PROPOSED WASTEWATER MANHOLE

PROPOSED HOUSE CONNECTION

PROFILE LEGEND:

PROJECT LEVEL

PIPE LAYOUT

MANHOLE

EXISTING PAVED ROAD

EXISTING CONCRETE ROAD

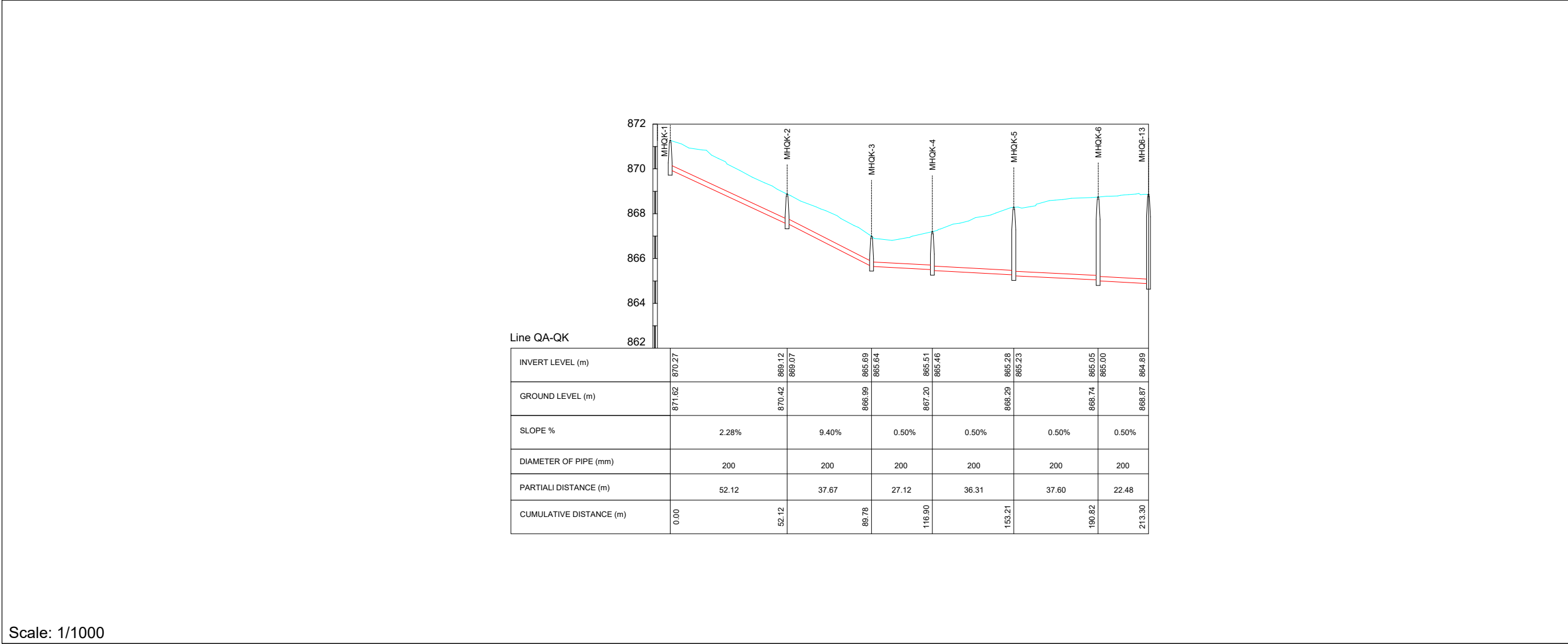
EXISTING DIRT ROAD

EXISTING CHANNEL

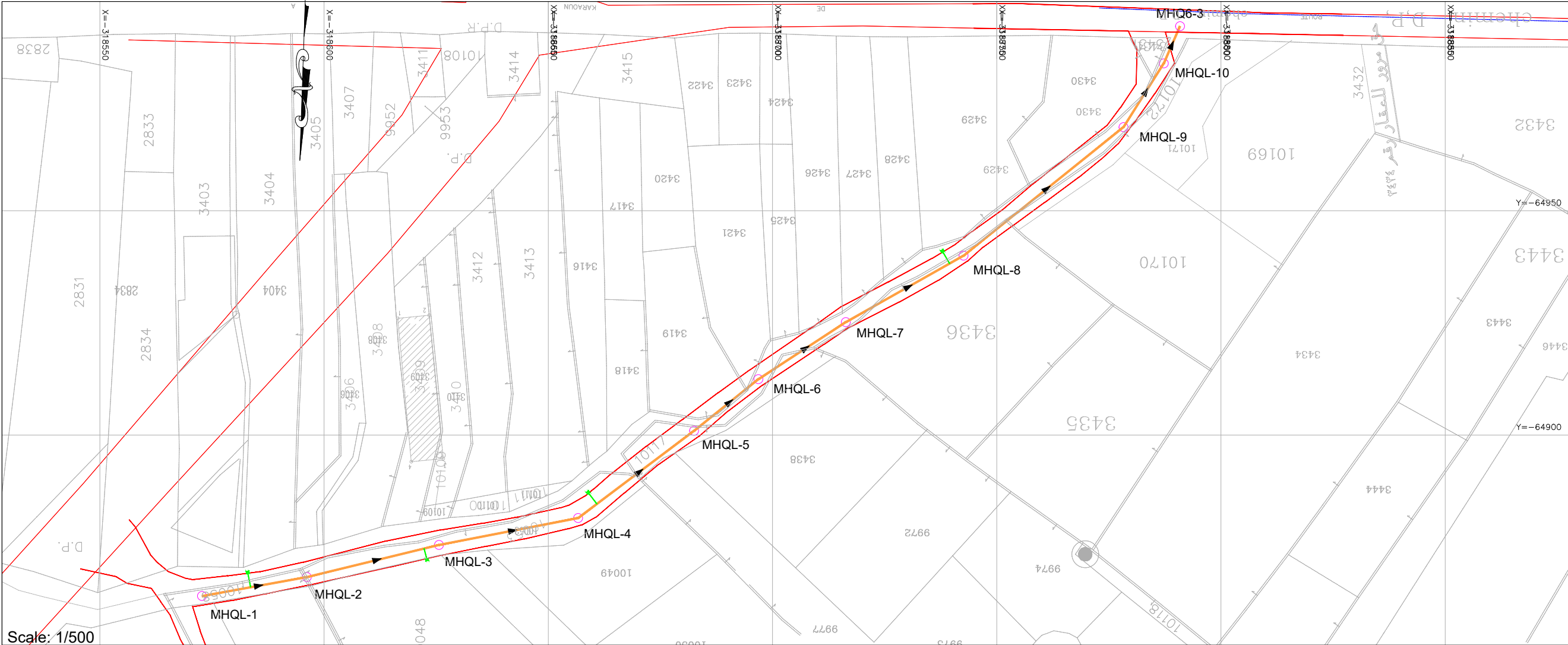
EXISTING FENCE

EXISTING GULLY

RIVER



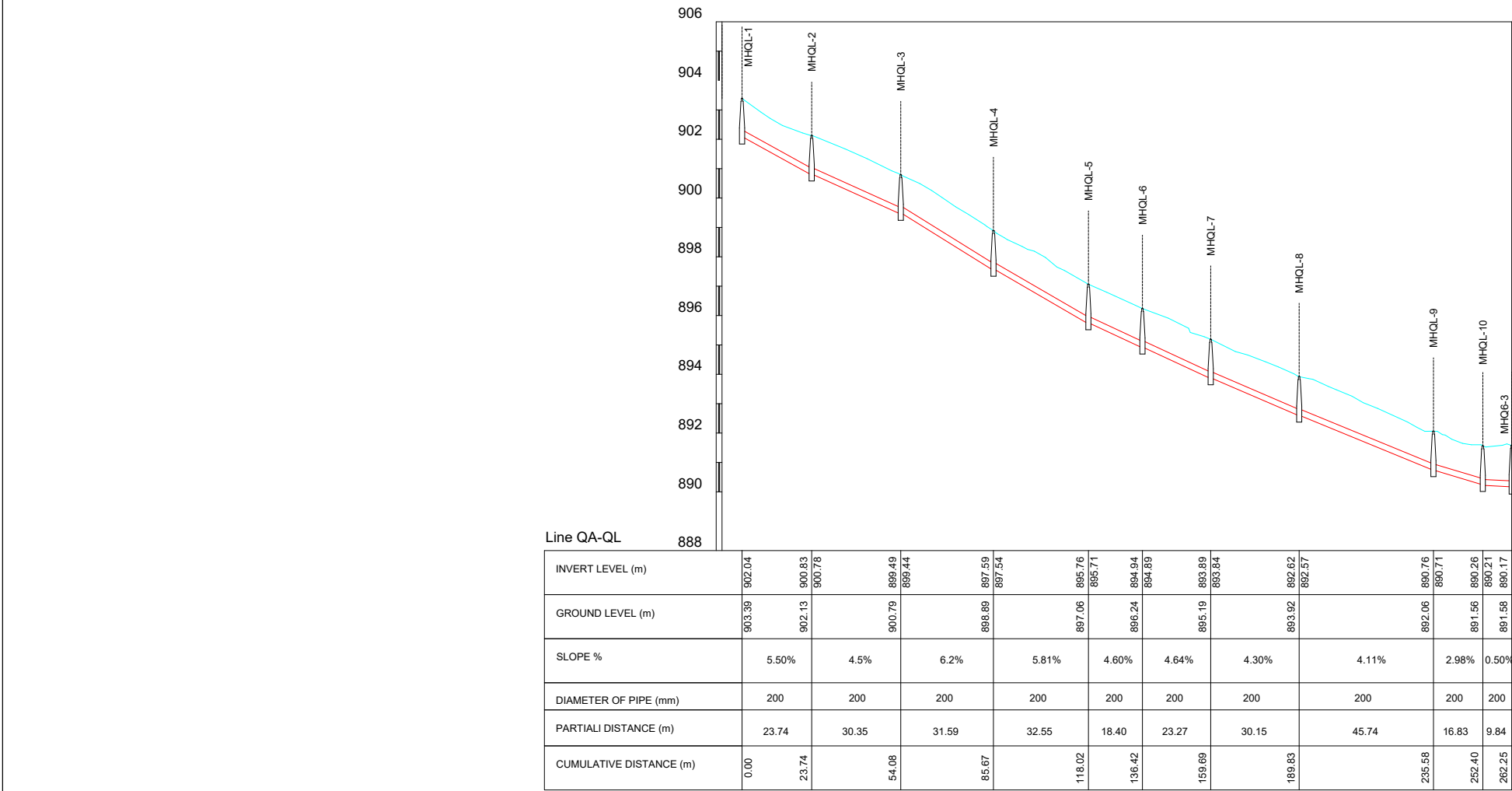
01			
Rev.	DESCRIPTION	DATE	
FUNDING AGENT:			
THE WORLD BANK			
CLIENT:			
COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION			
CONSULTANT:			
			
Project Name: P-2111D			
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)			
Drawing Title:			
WASTEWATER NETWORK QARAOUN PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QK			
Dwg No.: P-2111D-P2-WW-PLP-213		Rev No.: 00	
Date: SEPTEMBER-2026		Scale: A.S.	
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



- NOTES:
- 1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
 - 2- DIMENSIONS MUST NOT BE SCALED ON THIS DRAWING.
 - 3- THE LENGTH OF PIPE IS MEASURED FROM THE CENTER OF MANHOLE TO THE CENTER OF MANHOLE.
 - 4- PROVIDE CONCRETE PROTECTION FOR PIPES ACCORDING TO DRAWING OR WHERE REQUIRED BY THE ENGINEER.
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- PLAN LEGEND:
- PROPOSED WASTEWATER UPVC PIPE-200mm
 - PROPOSED WASTEWATER UPVC PIPE-250mm
 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

- PROFILE LEGEND:
- EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER



Rev.	DESCRIPTION	DATE
01		

FUNDING AGENT:

THE WORLD BANK

CLIENT:

COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT:

su/yapi

Project Name: P-2111D

COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:

WASTEWATER NETWORK QARAOUN
PLAN VIEW & LONGITUDINAL PROFILE LINE QA-QL

Dwg No.: P-2111D-P2-WW-PLP-214	Rev No.: 00		
Date: SEPTEMBER-2026	Scale: A.S.		
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

Scale: 1/1000