



THE WORLD BANK



REPUBLIC OF LEBANON



COUNCIL FOR DEVELOPMENT
AND RECONSTRUCTION

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

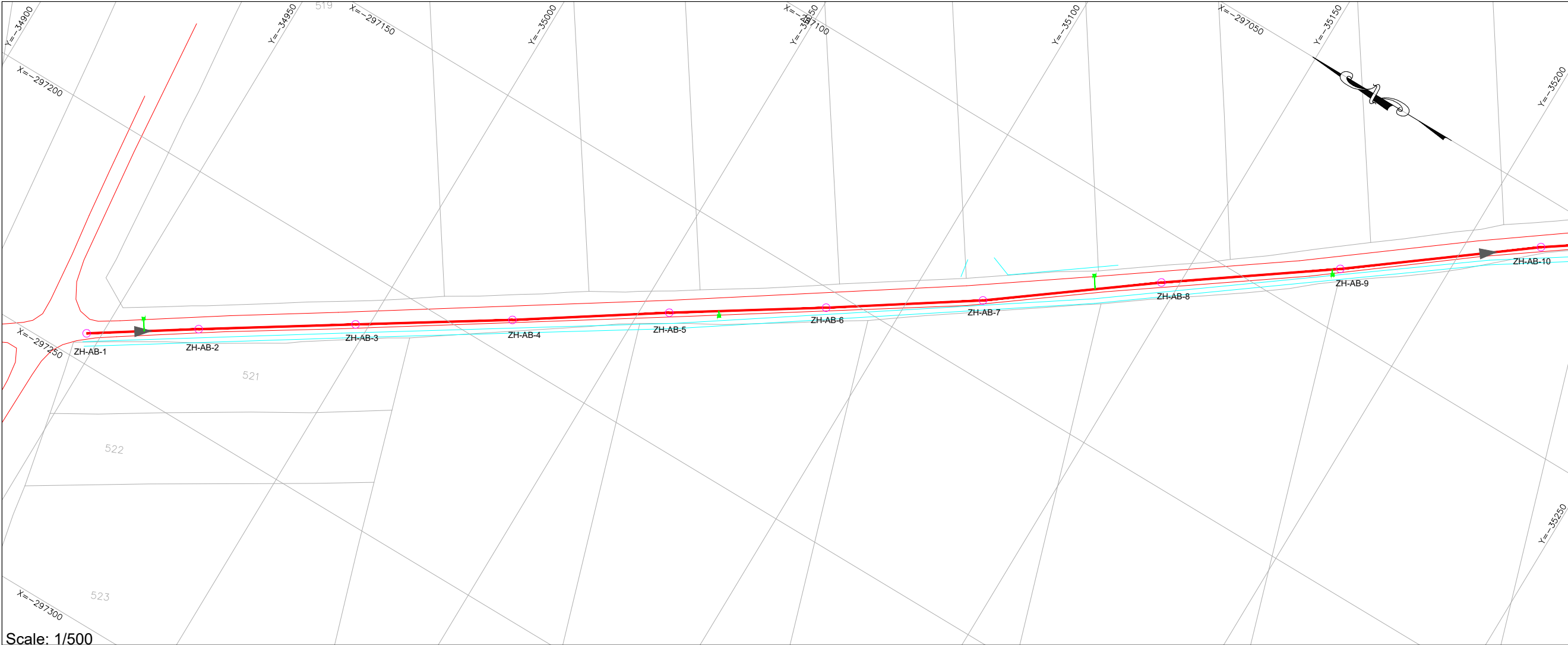
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION
NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND
AITANIT WASTEWATER TREATMENT PLANT
ICB No: GC2W2C

VOLUME 4 - TENDER DRAWINGS
PART 1 – DRAWINGS FOR ZAHLE

SEPTEMBER 2026



SU/YAPI

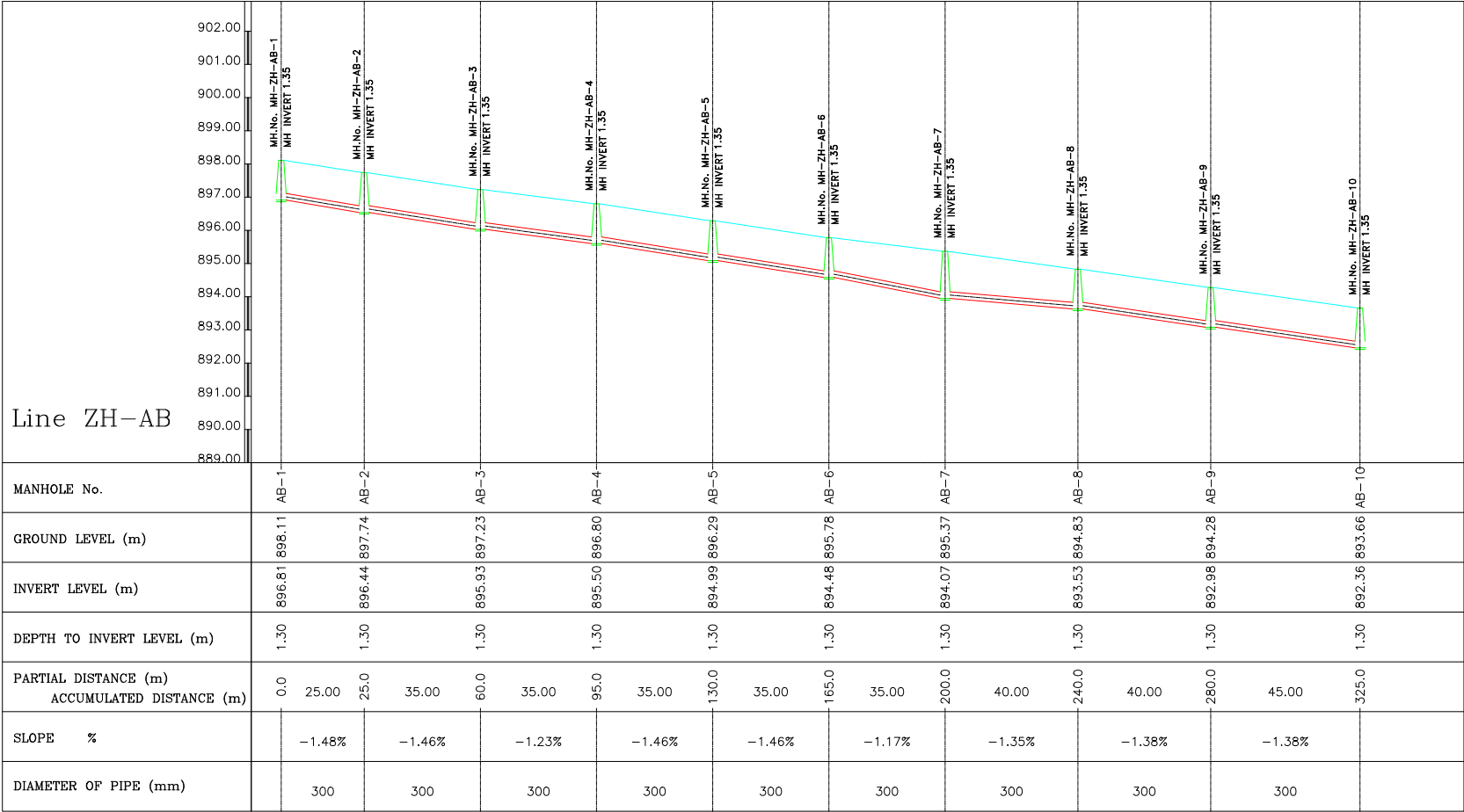


Scale: 1/500

- 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.
 - 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



Scale: 1/1000

01		
Rev.	DESCRIPTION	DATE

FUNDING AGENT:



CLIENT:



COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT:



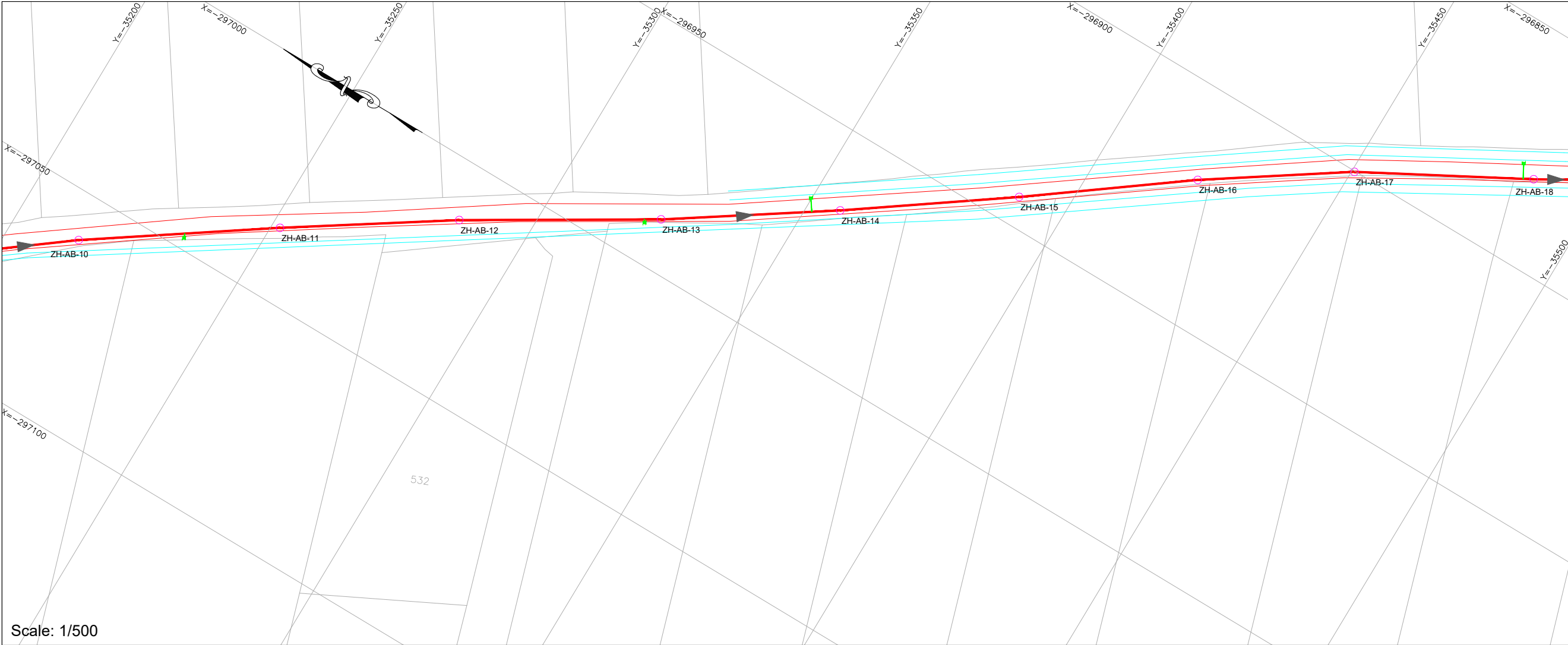
Project Name: P-2111D

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
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-AB
SHEET (01 OF 05)

Dwg No.: P-2111D-P1-WW-PLP-201			Rev No.: 00
Date: SEPTEMBER-2026			Scale: A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

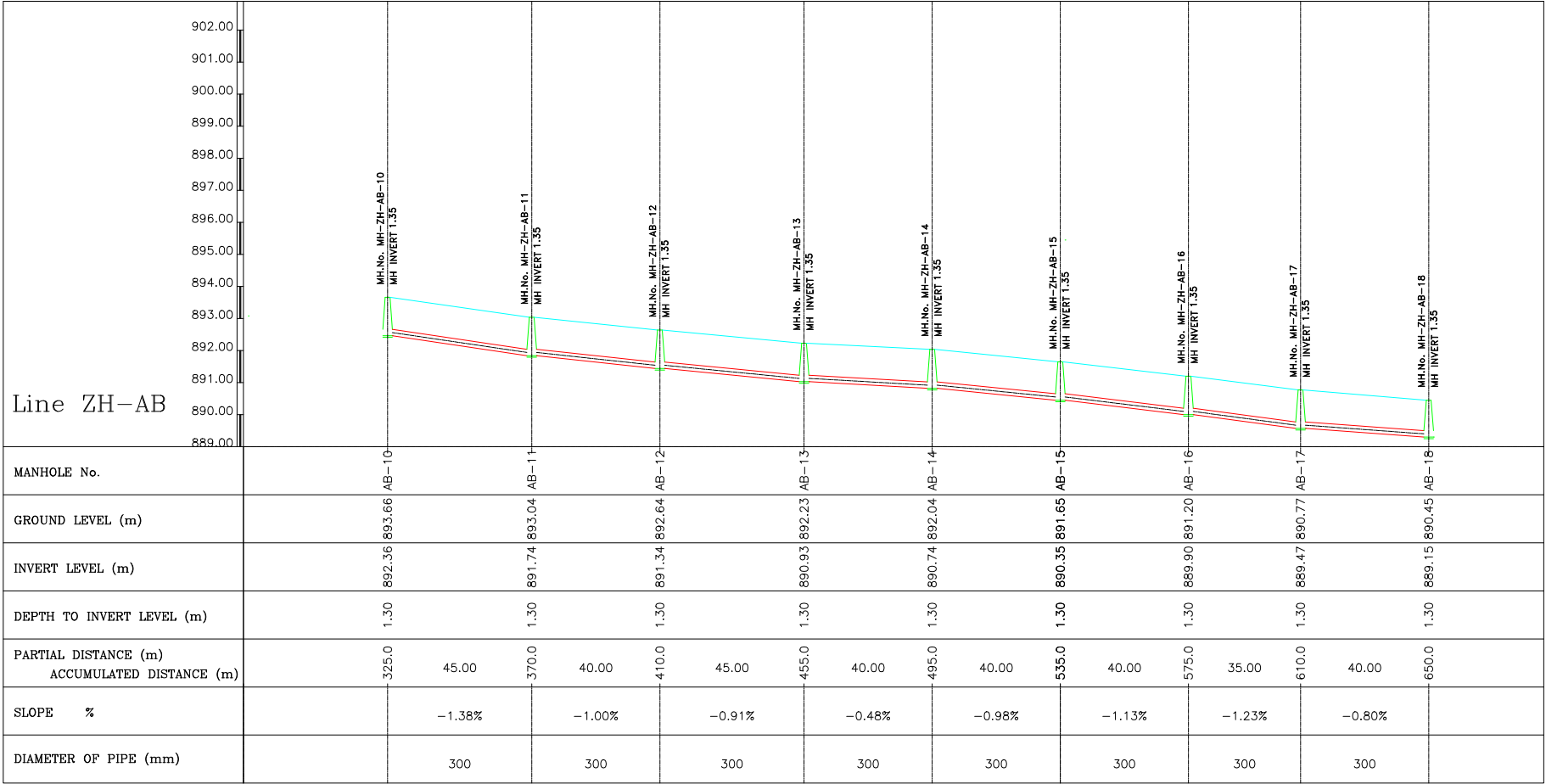


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 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

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

Scale: 1/500



Scale: 1/1000

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CLIENT:



COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT:



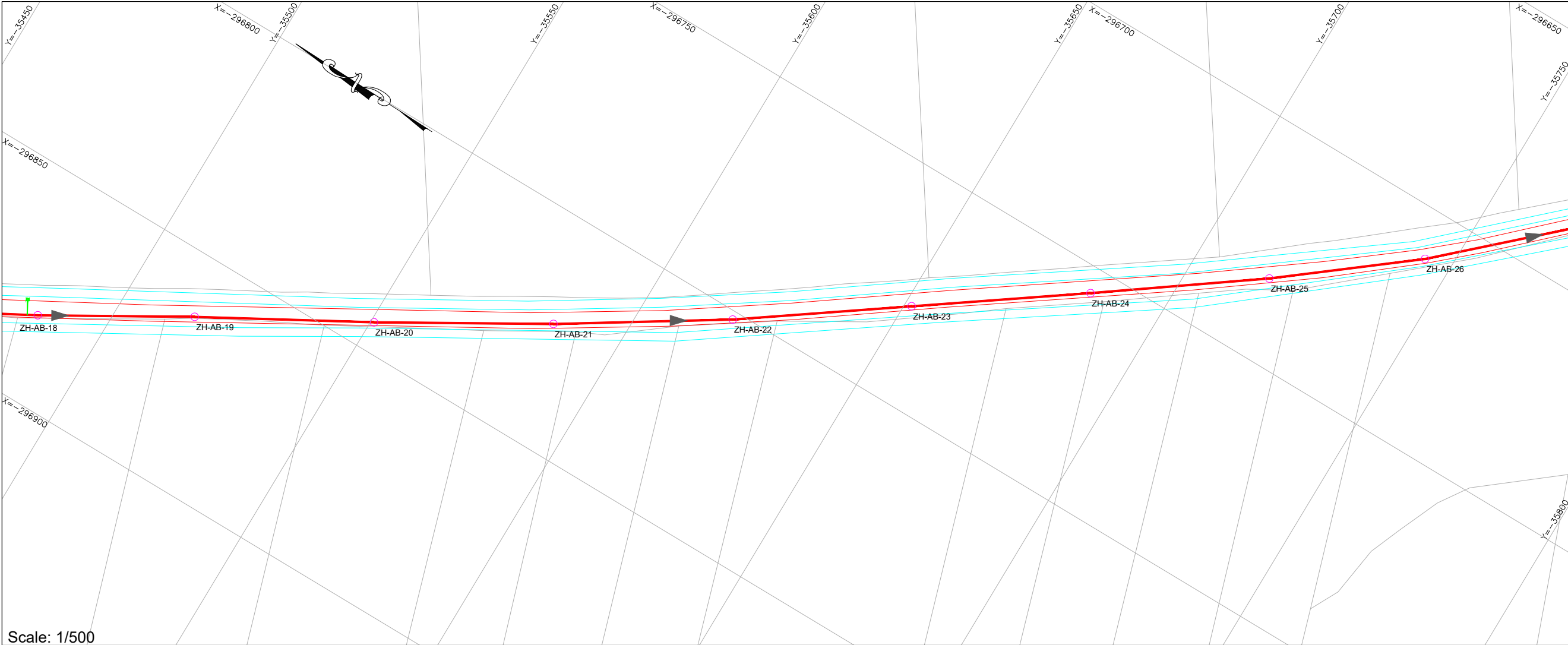
Project Name: P-2111D

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
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-AB
SHEET (02 OF 05)

Dwg No.:	P-2111D-P1-WW-PLP-202	Rev No.:	00
Date:	SEPTEMBER-2026	Scale:	A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



Scale: 1/500

NOTES:

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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

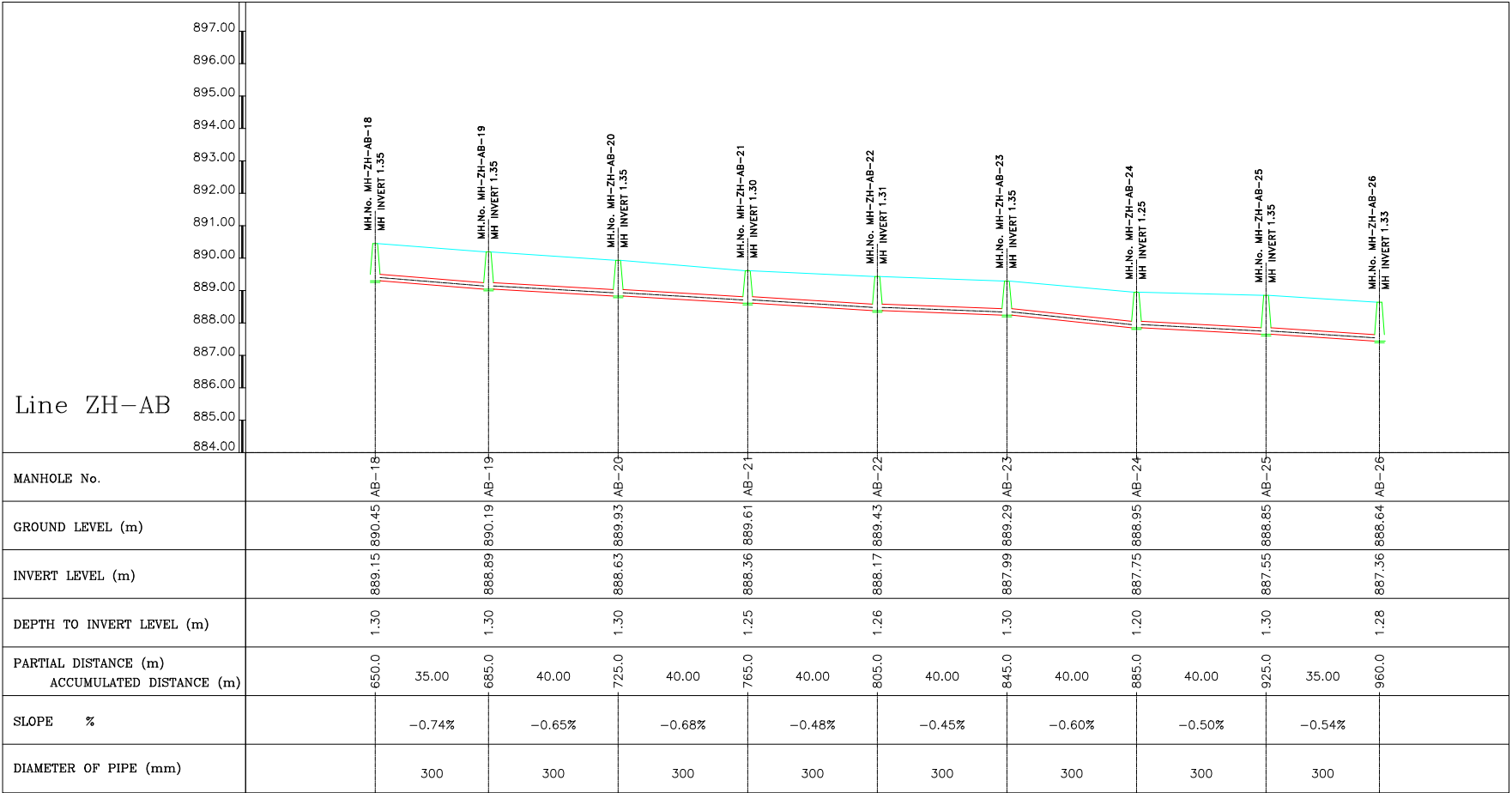
EXISTING DIRT ROAD

EXISTING CHANNEL

EXISTING FENCE

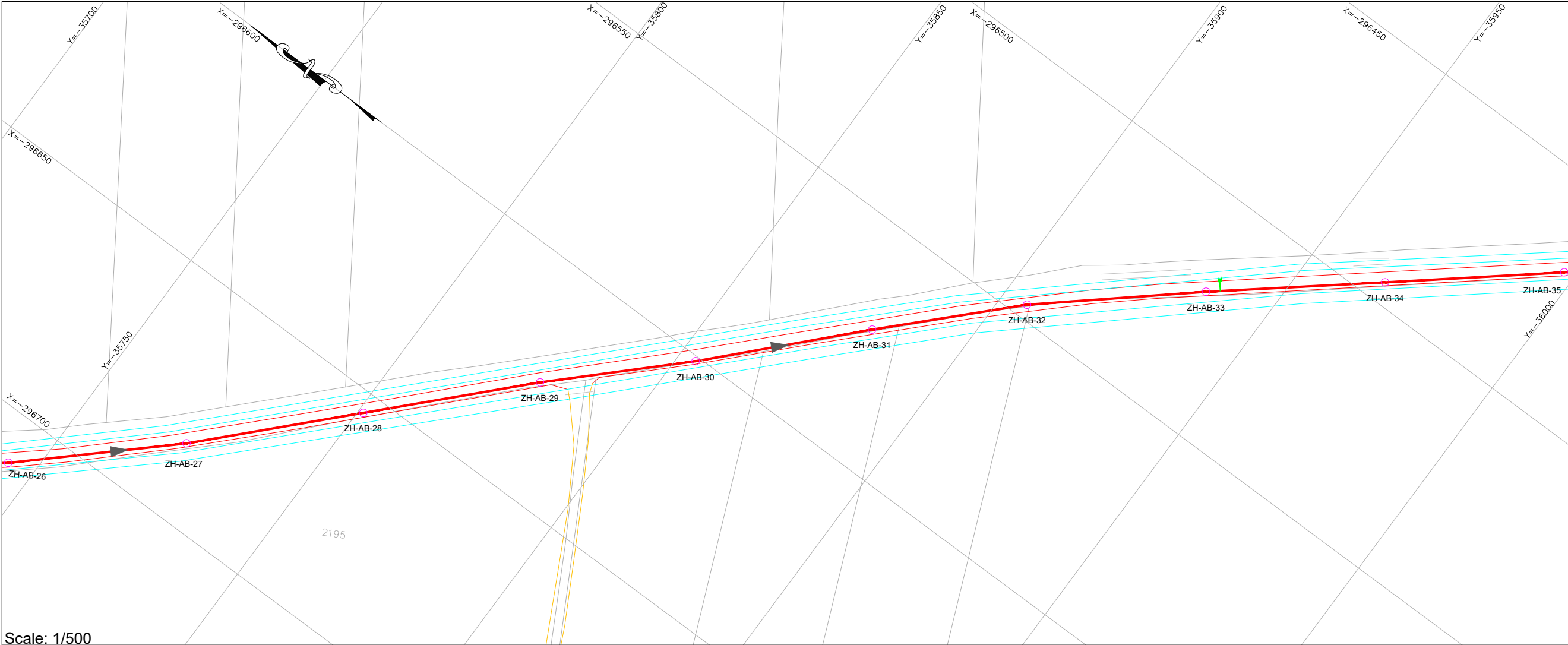
EXISTING GULLY

RIVER



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 ZAHLE PLAN VIEW & LONGITUDINAL PROFILE LINE ZH-AB SHEET (03 OF 05)			
Dwg No.: P-2111D-P1-WW-PLP-203			Rev No.: 00
Date: SEPTEMBER-2026		Scale: A.S.	
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

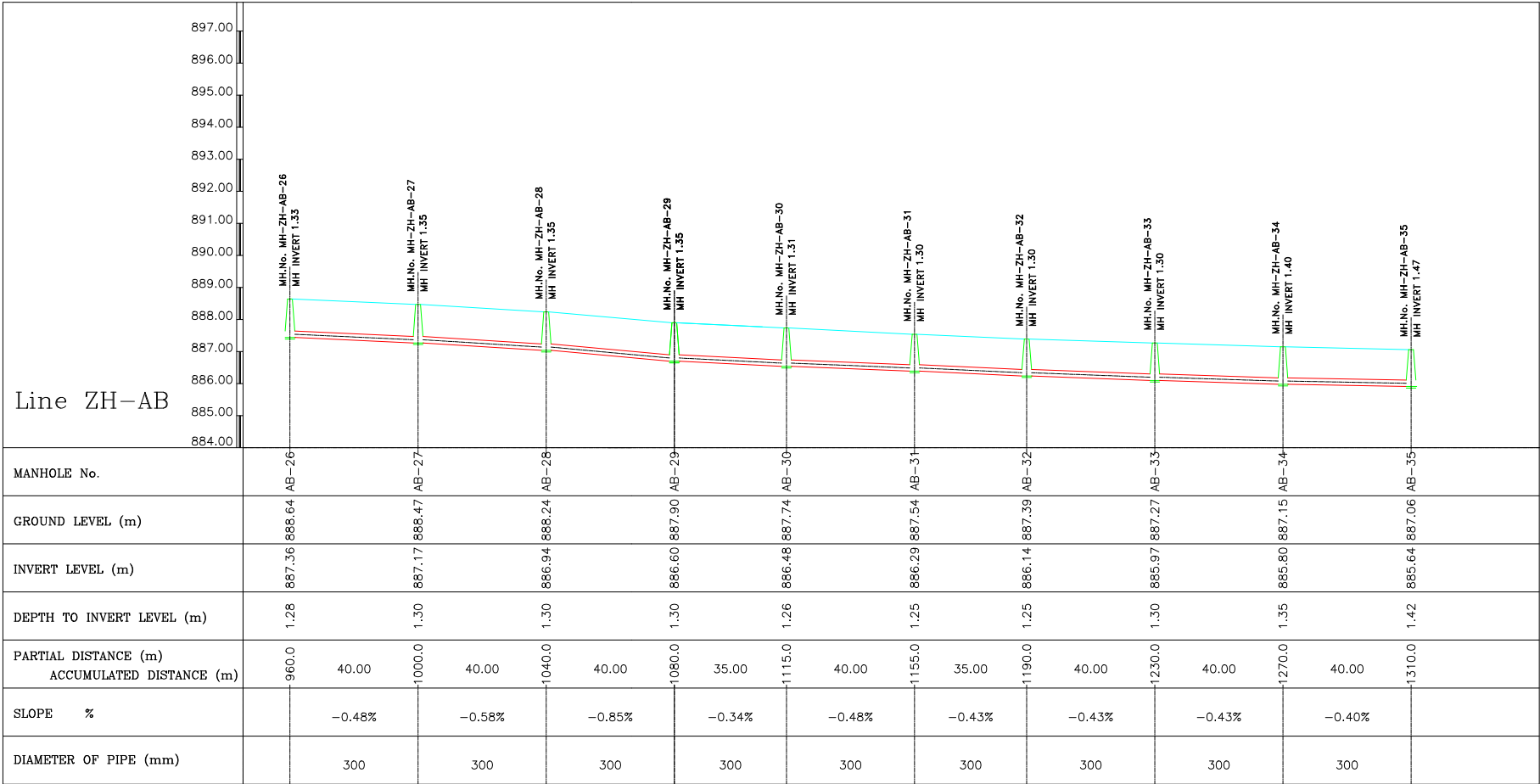


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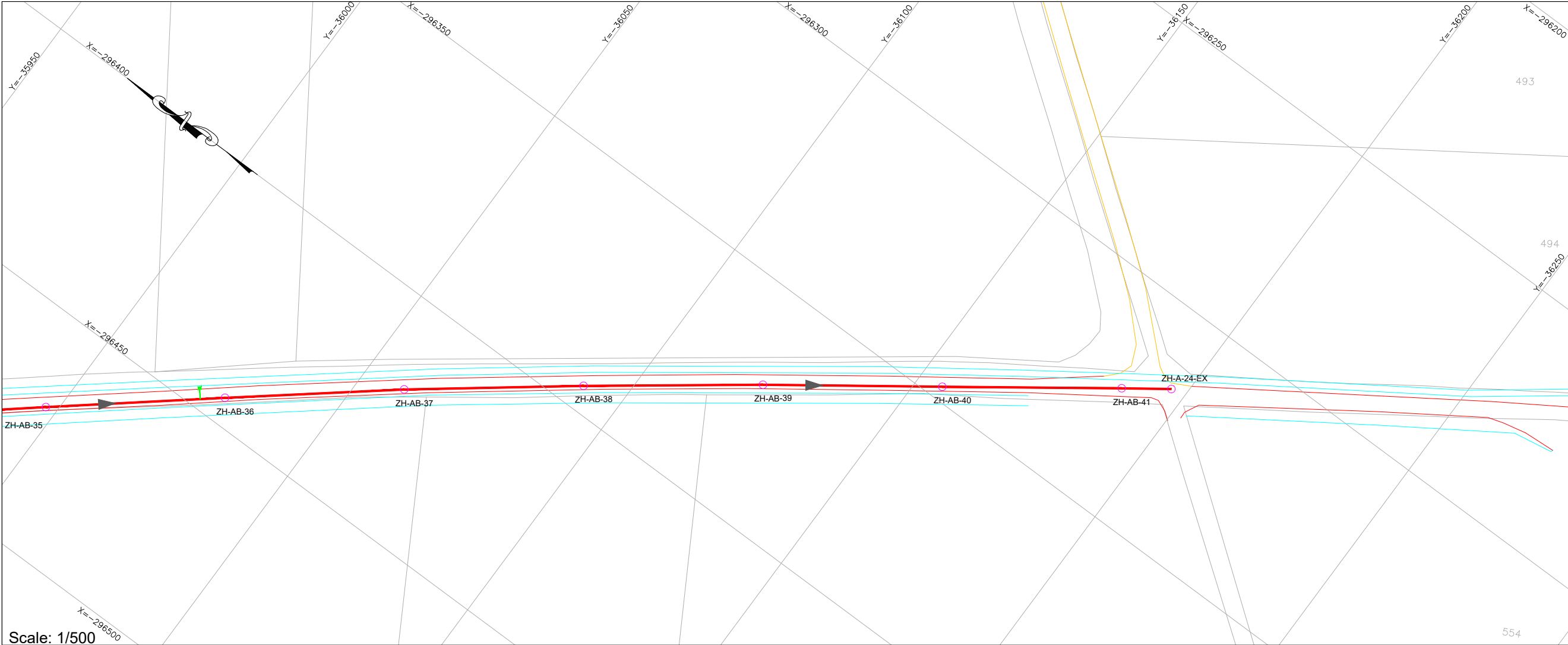
- PLAN LEGEND:
- PROPOSED WASTEWATER UPVC PIPE-200mm
 - PROPOSED WASTEWATER UPVC PIPE-250mm
 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - ZH-TA-8
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

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



Scale: 1/1000

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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 ZAHLE PLAN VIEW & LONGITUDINAL PROFILE LINE ZH-AB SHEET (04 OF 05)		
Dwg No.: P-2111D-P1-WW-PLP-204	Rev No.: 00	
Date: SEPTEMBER-2026	Scale: A.S.	
Drawn	Designed	Checked
O.D	M.N	R.S
		Approved
		G.K.

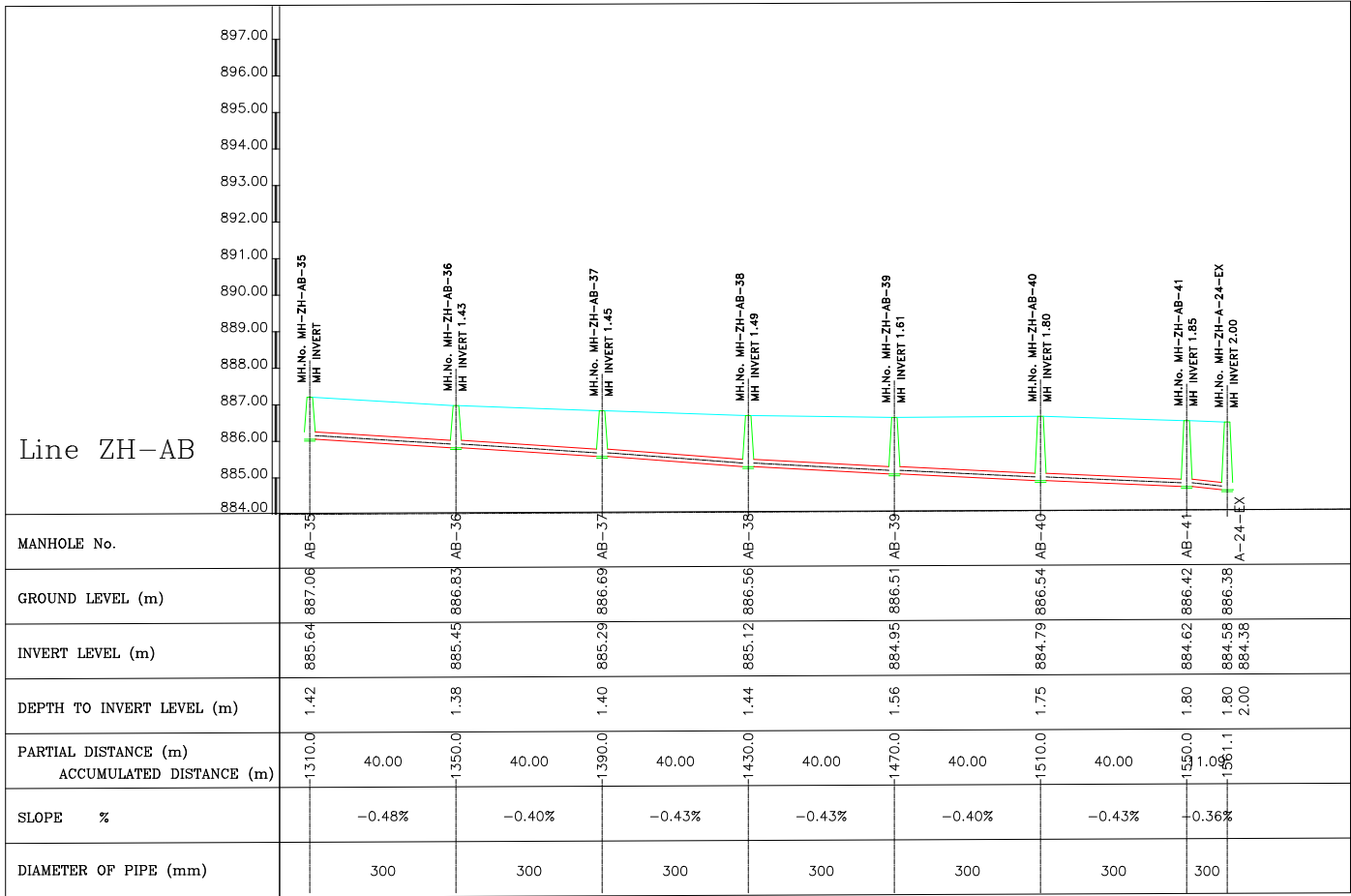


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 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

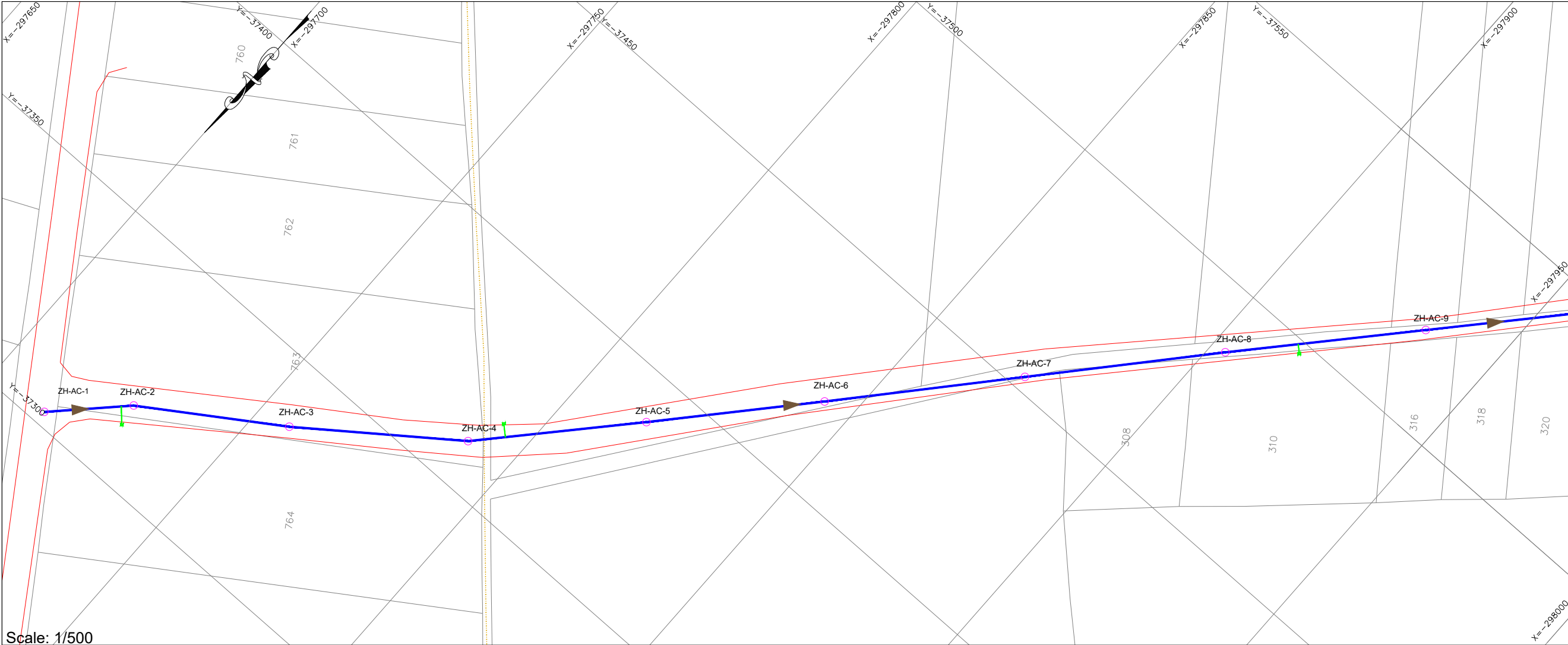
- PROFILE LEGEND:
- PROJECT LEVEL
 - PIPE LAYOUT
 - MANHOLE
 - EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER

Scale: 1/500



Scale: 1/1000

01			
Rev.	DESCRIPTION	DATE	
FUNDING AGENT:			
THE WORLD BANK			
CLIENT:			
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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 ZAHLE PLAN VIEW & LONGITUDINAL PROFILE LINE ZH-AB SHEET (05 OF 05)			
Dwg No.: P-2111D-P1-WW-PLP-205		Rev No.: 00	
Date: SEPTEMBER-2026		Scale: A.S.	
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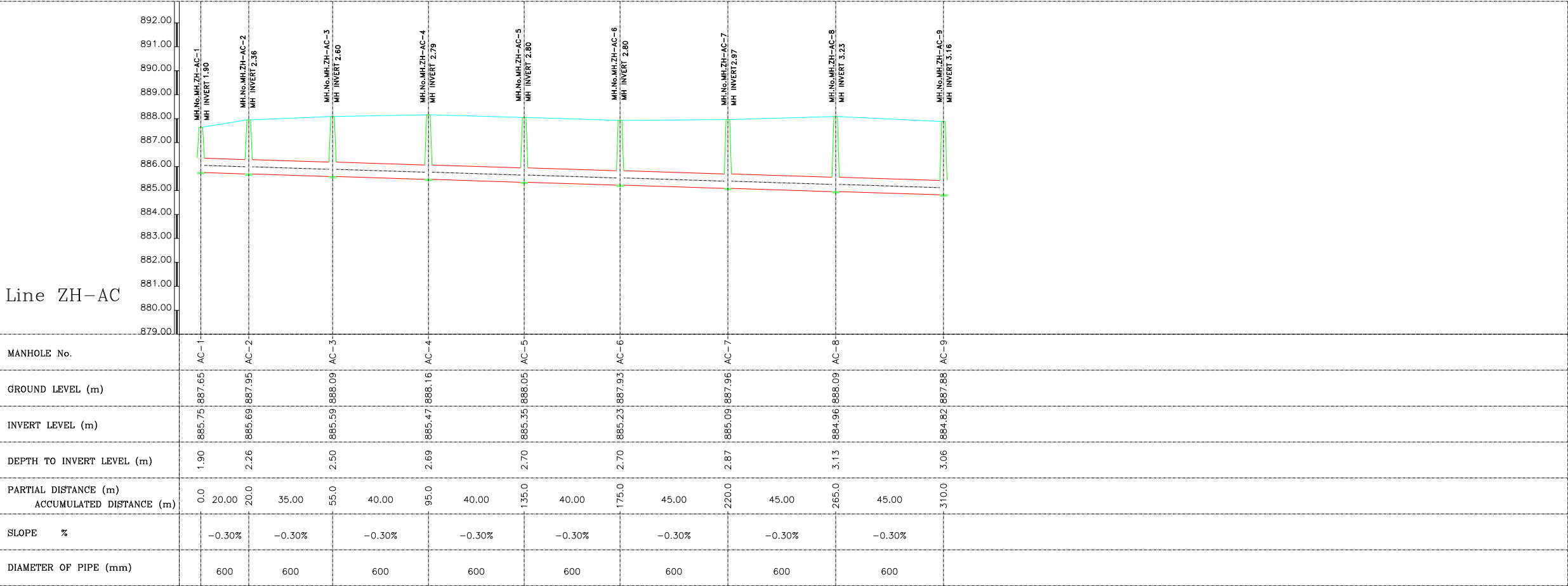


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 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - ZH-TA-8
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

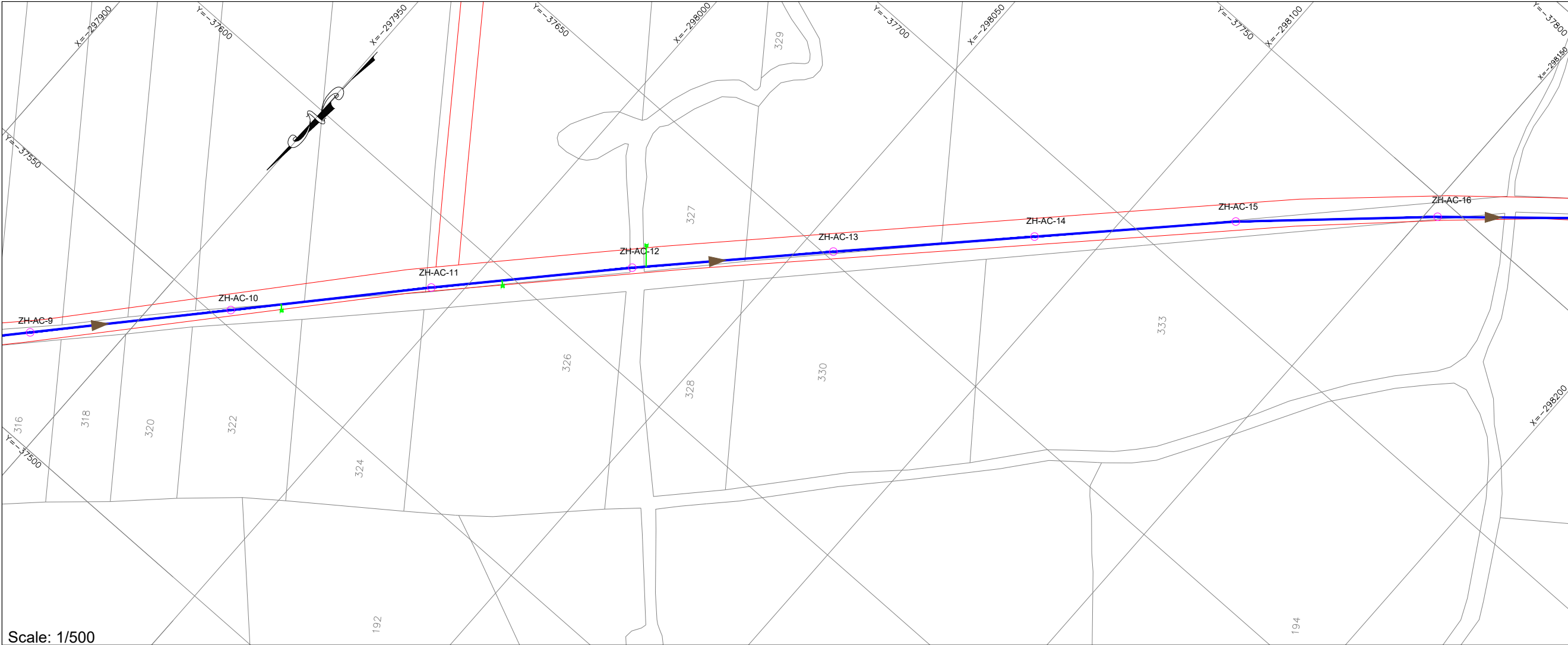
- PROFILE LEGEND:
- PROJECT LEVEL
 - PIPE LAYOUT
 - MANHOLE
 - EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER

Scale: 1/500



Scale: 1/1000

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 ZAHLE PLAN VIEW & LONGITUDINAL PROFILE LINE ZH-AC SHEET (01 OF 08)			
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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

PROFILE LEGEND:

PROJECT LEVEL

PIPE LAYOUT

MANHOLE

EXISTING PAVED ROAD

EXISTING CONCRETE ROAD

EXISTING DIRT ROAD

EXISTING CHANNEL

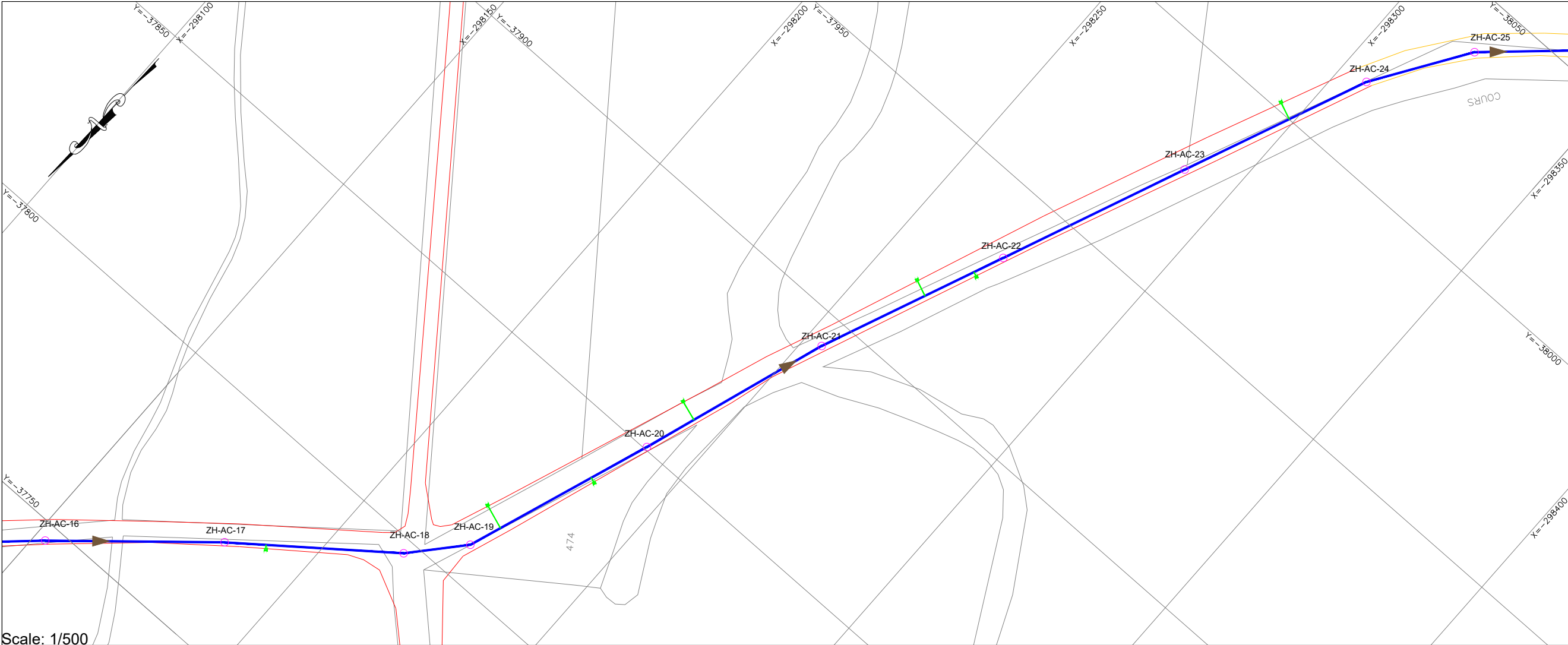
EXISTING FENCE

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 ZAHLE PLAN VIEW & LONGITUDINAL PROFILE LINE ZH-AC SHEET (02 OF 08)			
Dwg No.: P-2111D-P1-WW-PLP-207		Rev No.: 00	
Date:	SEPTEMBER-2026	Scale: A.S.	
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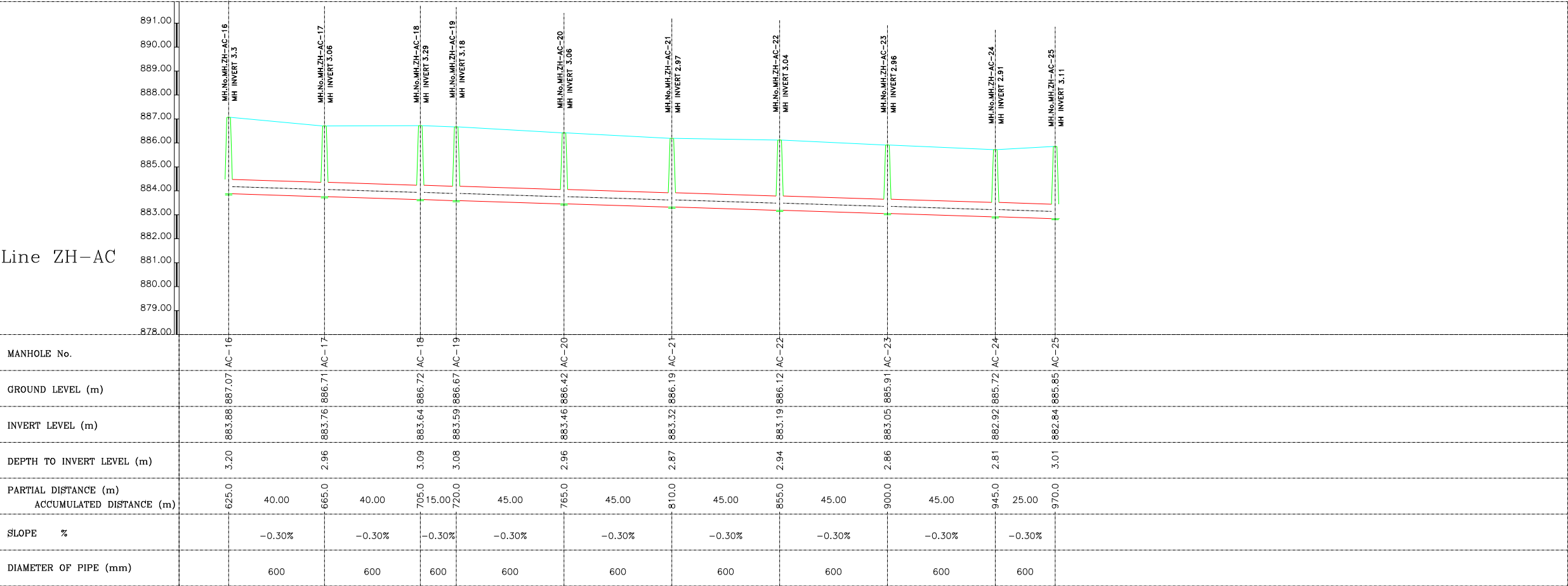
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Project Name: P-2111D

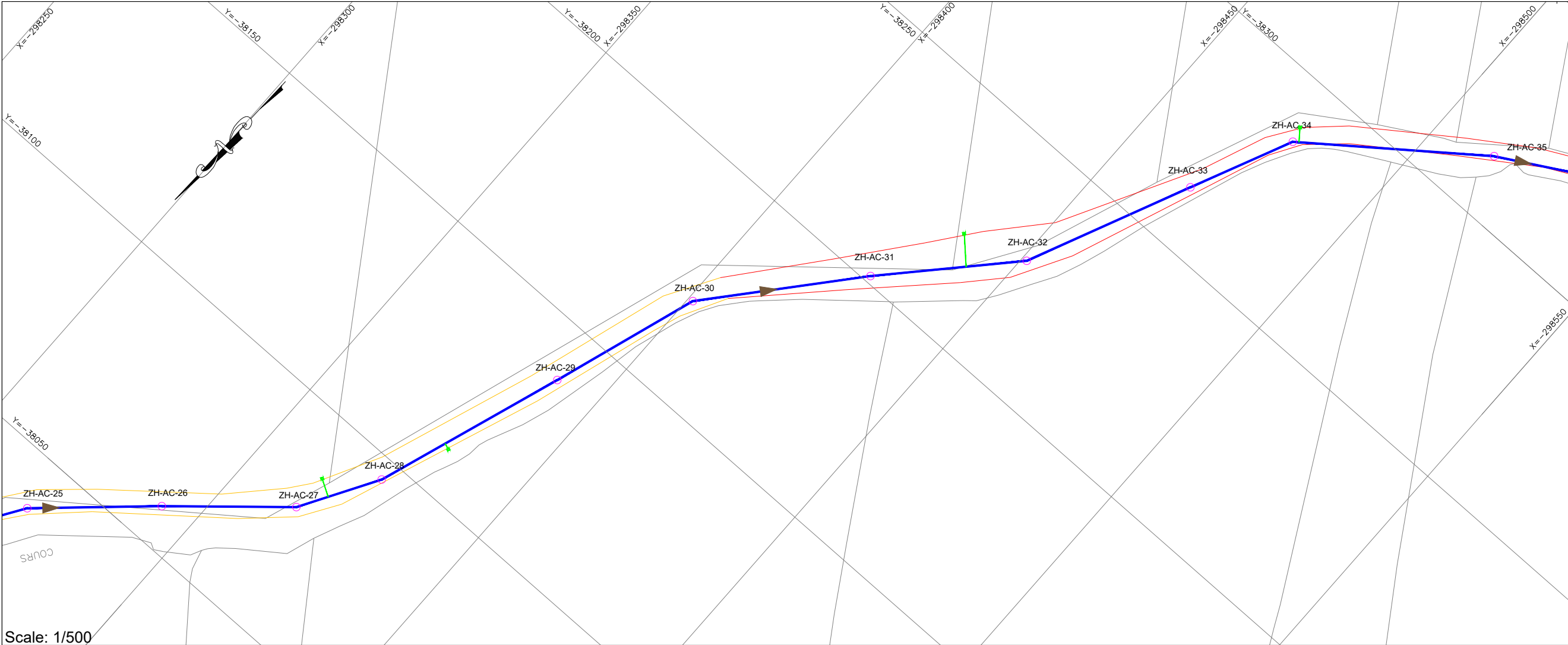
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:

WASTEWATER NETWORK
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-AC
SHEET (03 OF 08)

Dwg No.: P-2111D-P1-WW-PLP-208			Rev No.: 00
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O.D	M.N	R.S	G.K.

Scale: 1/1000

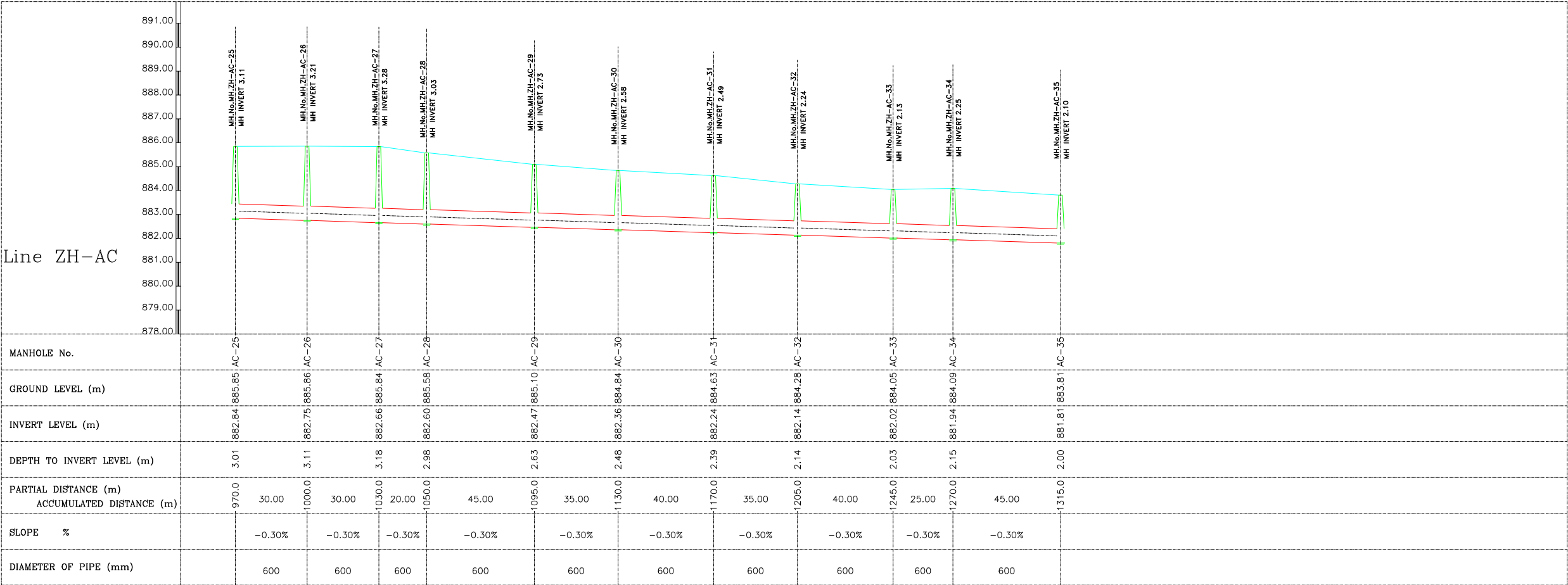


Scale: 1/500

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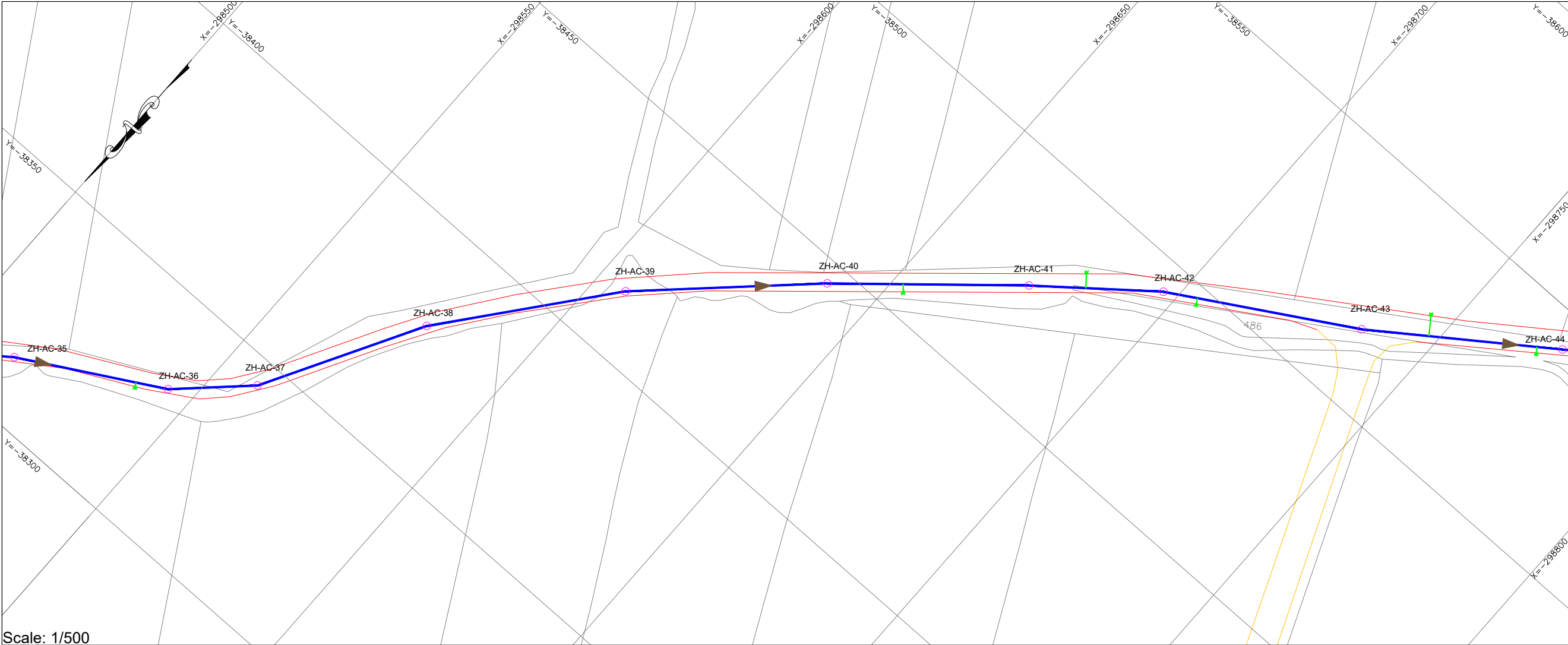
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Scale: 1/1000

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Drawing Title:		
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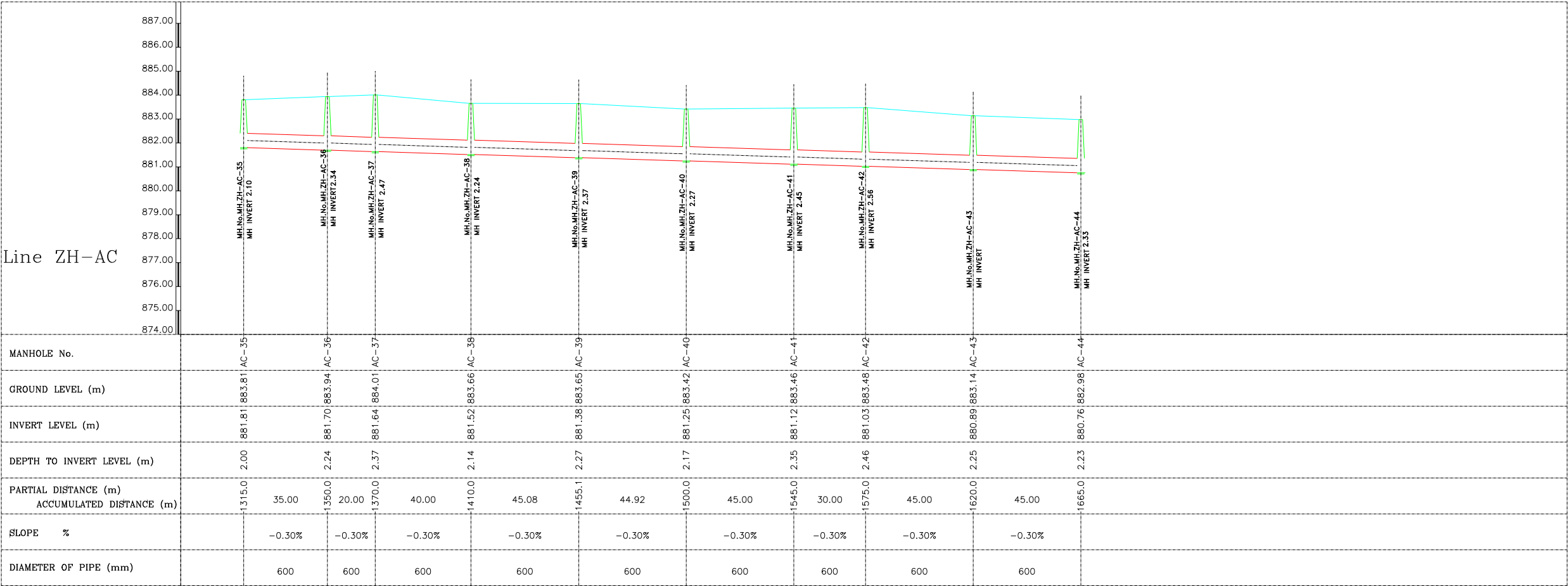


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FUNDING AGENT:



CLIENT:



COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

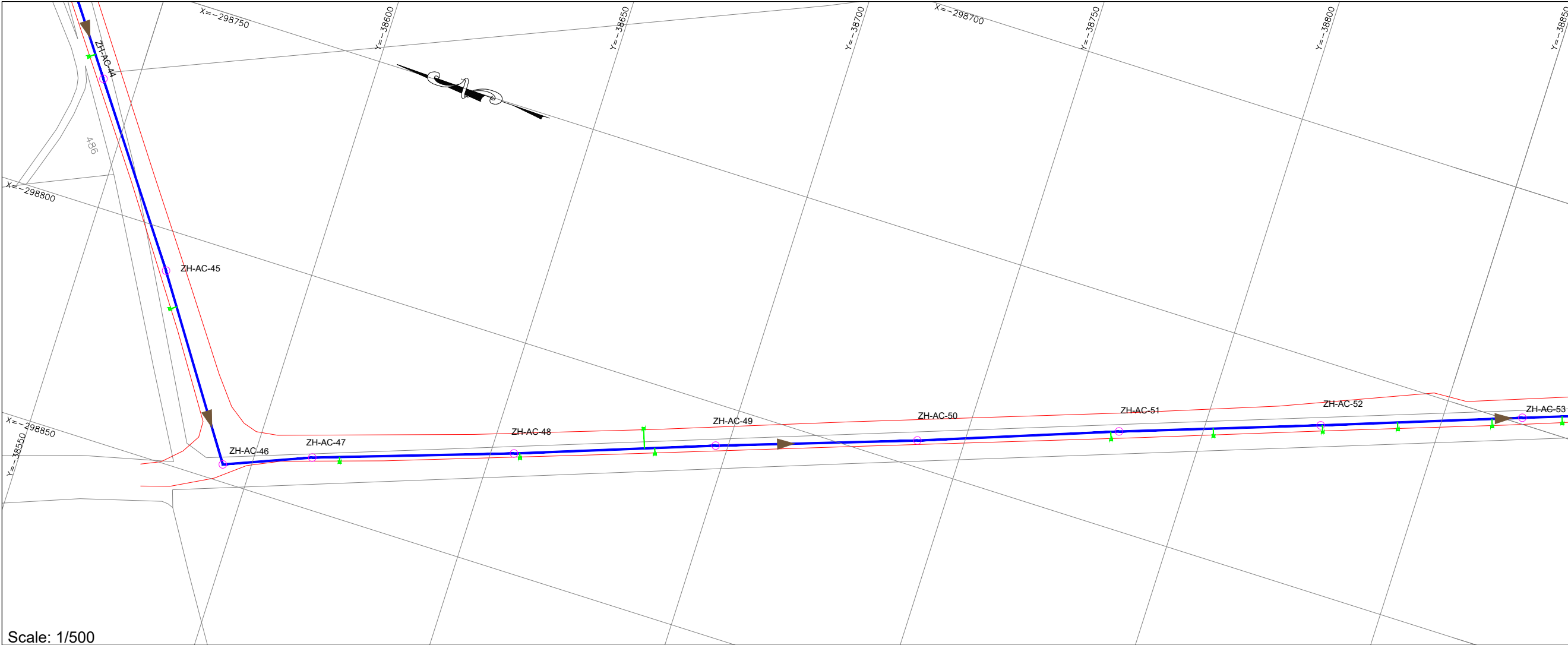
CONSULTANT:



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
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-AC
SHEET (05 OF 08)

Dwg No.: P-2111D-P1-WW-PLP-210			Rev No.: 00
Date: SEPTEMBER-2026			Scale: A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

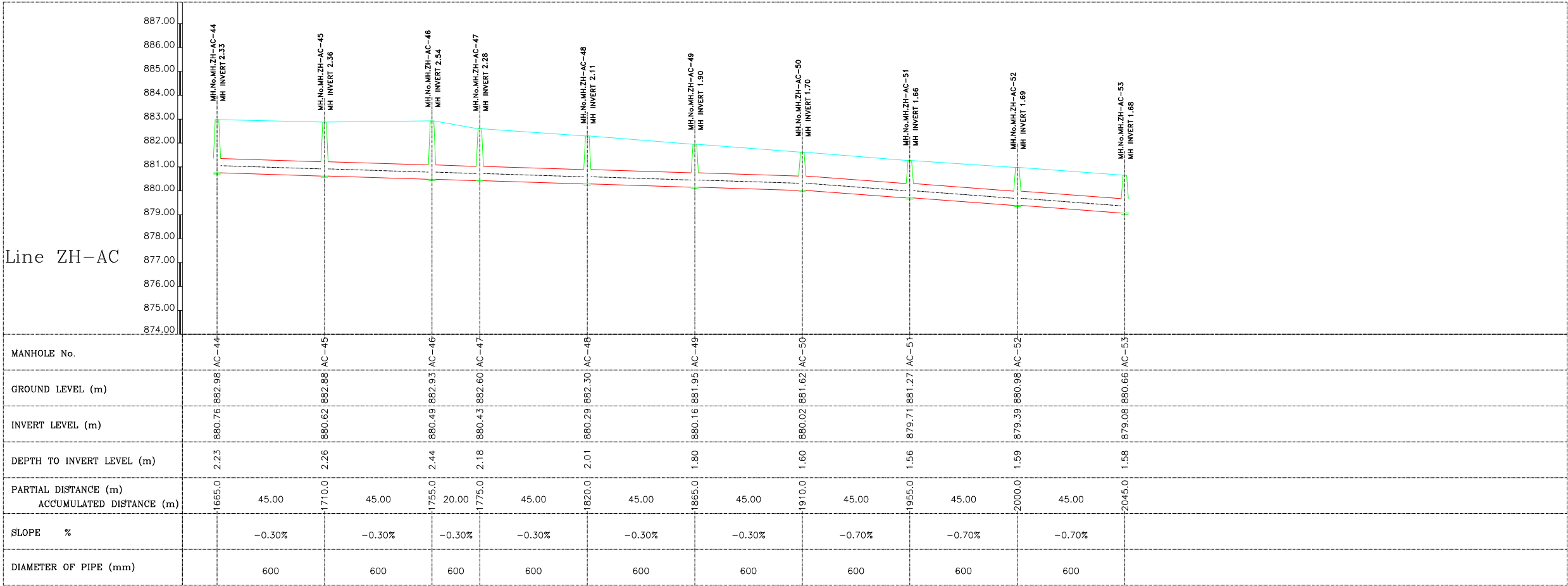


- NOTES:
- 1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
 - 2- DIMENSIONS MUST NOT BE SCALED ON THIS DRAWING.
 - 3- THE LENGTH OF PIPE IS MEASURED FROM THE CENTER OF MANHOLE TO THE CENTER OF MANHOLE.
 - 4- PROVIDE CONCRETE PROTECTION FOR PIPES ACCORDING TO DRAWING OR WHERE REQUIRED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

Scale: 1/500



Scale: 1/1000

01		
Rev.	DESCRIPTION	DATE

FUNDING AGENT:



CLIENT:



COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

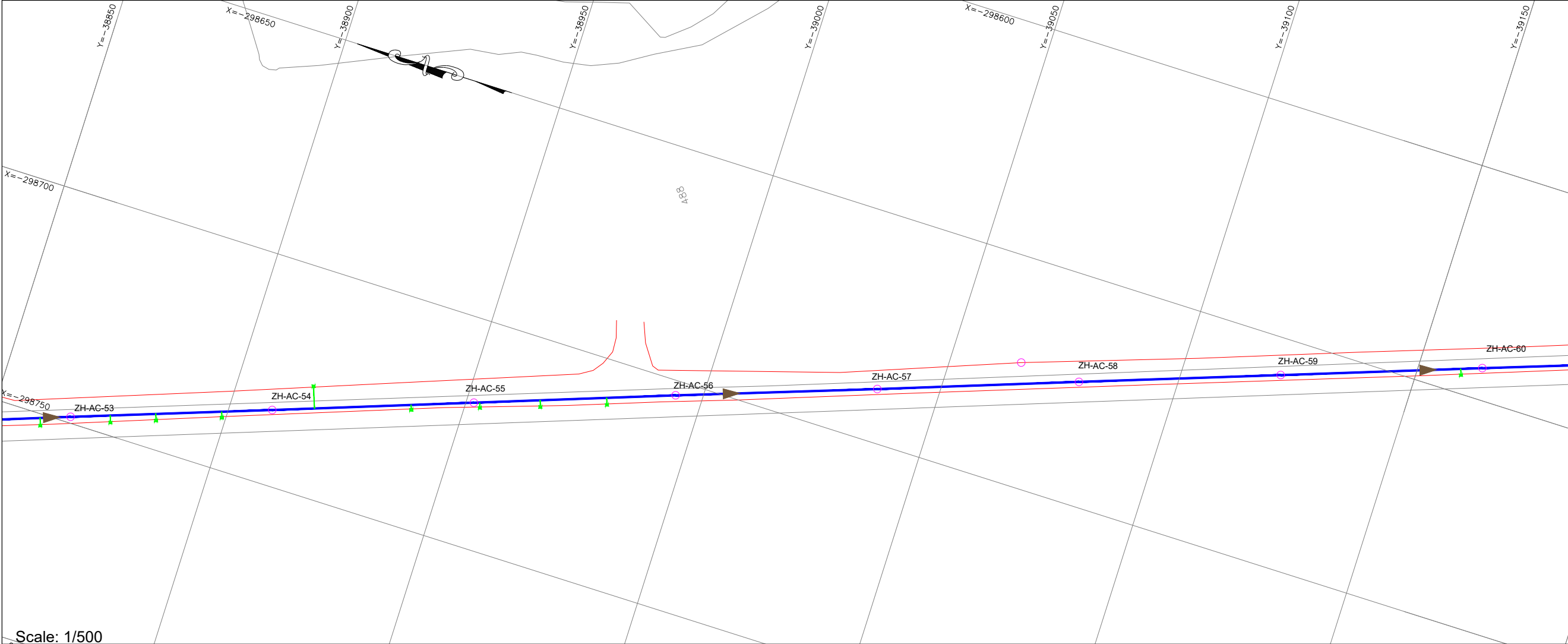
CONSULTANT:



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
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-AC
SHEET (06 OF 08)

Dwg No.: P-2111D-P1-WW-PLP-211			Rev No.: 00
Date: SEPTEMBER-2026			Scale: A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

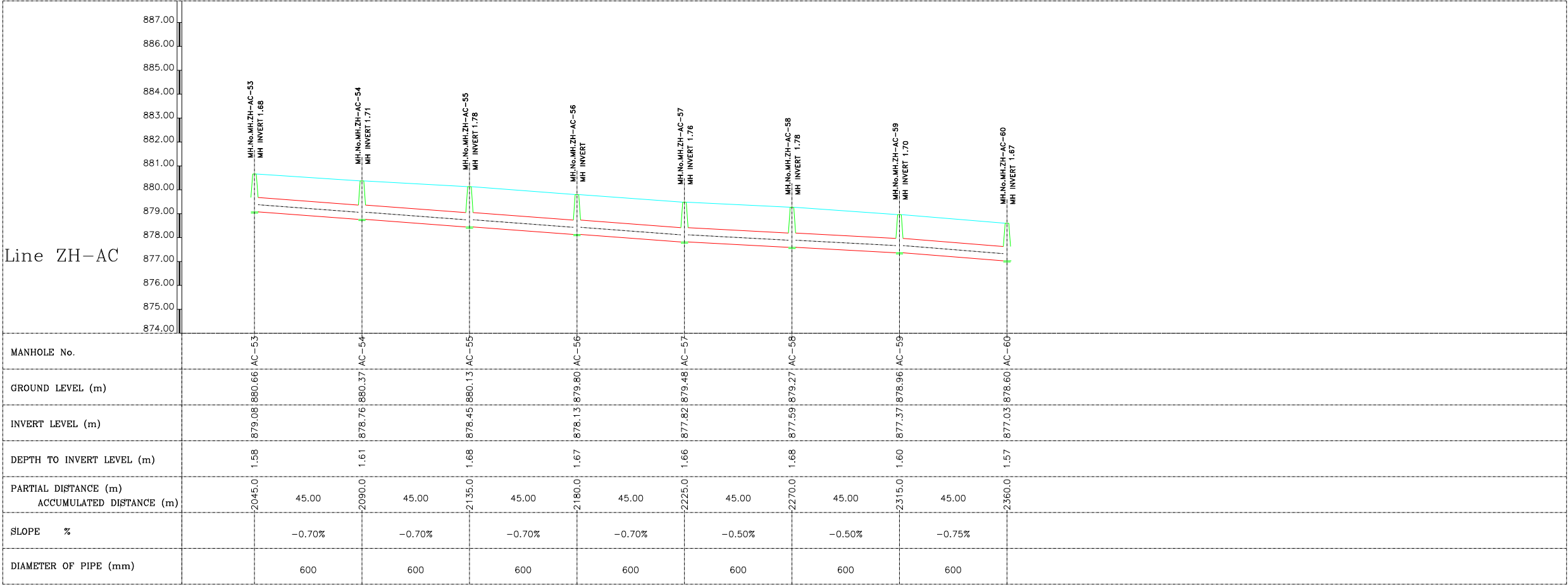


- NOTES:
- 1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
 - 2- DIMENSIONS MUST NOT BE SCALED ON THIS DRAWING.
 - 3- THE LENGTH OF PIPE IS MEASURED FROM THE CENTER OF MANHOLE TO THE CENTER OF MANHOLE.
 - 4- PROVIDE CONCRETE PROTECTION FOR PIPES ACCORDING TO DRAWING OR WHERE REQUIRED BY THE ENGINEER.
 - 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
 - ZH-TA-8
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

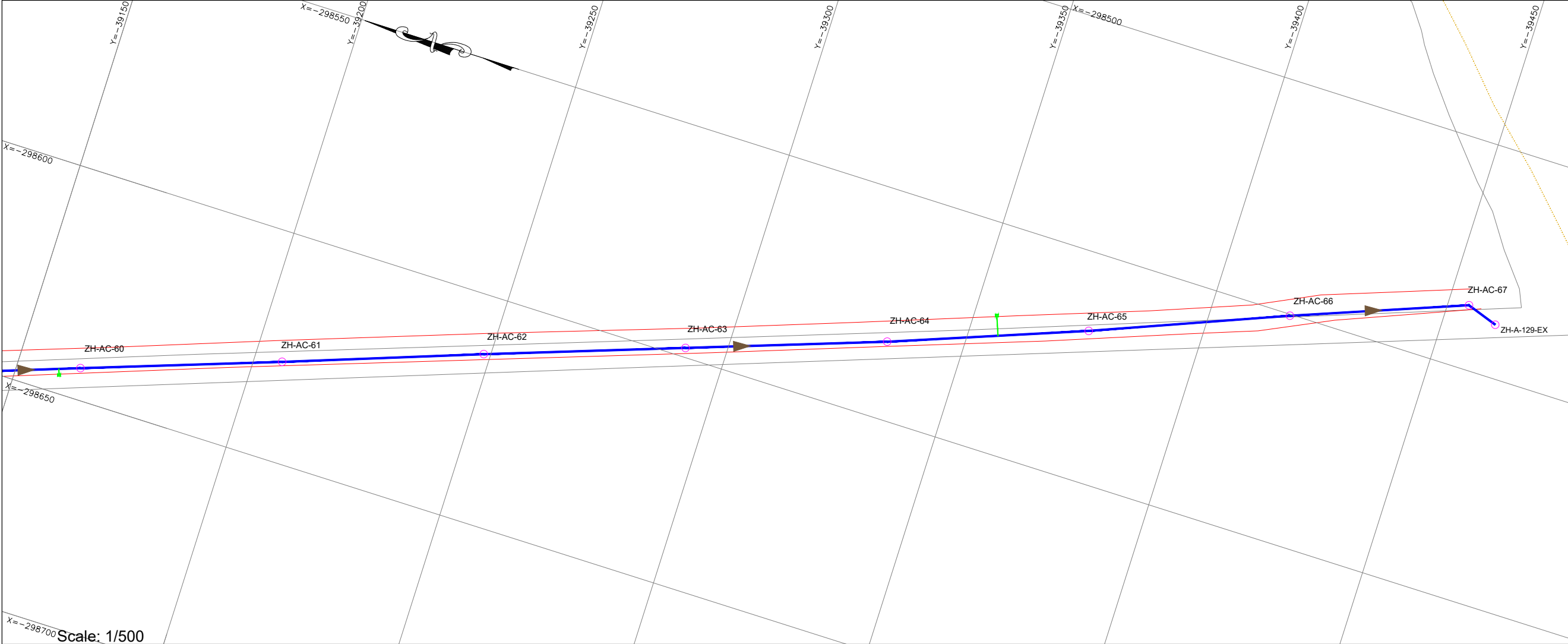
- PROFILE LEGEND:
- PROJECT LEVEL
 - PIPE LAYOUT
 - MANHOLE
 - EXISTING PAVED ROAD
 - EXISTING CONCRETE ROAD
 - EXISTING DIRT ROAD
 - EXISTING CHANNEL
 - EXISTING FENCE
 - EXISTING GULLY
 - RIVER

Scale: 1/500



Scale: 1/1000

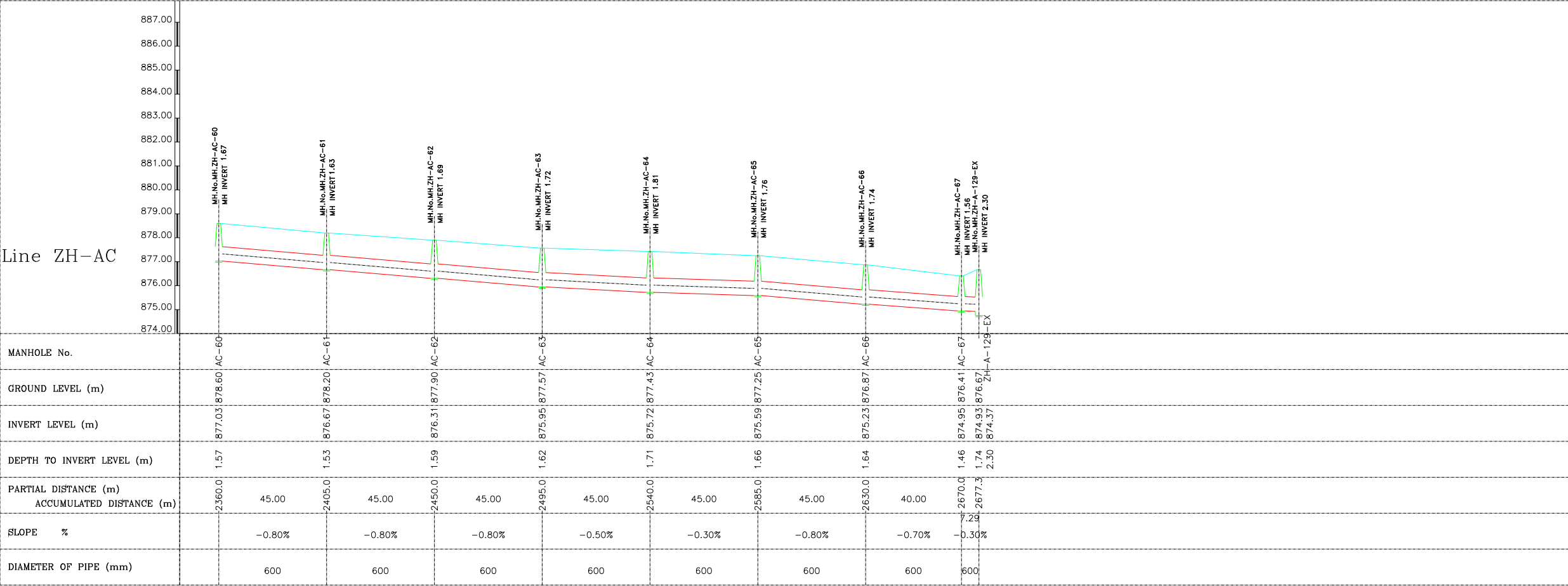
01			
Rev.	DESCRIPTION	DATE	
FUNDING AGENT:			
 THE WORLD BANK			
CLIENT:			
 COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION			
CONSULTANT:			
			
Project Name: P-2111D			
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)			
Drawing Title:			
WASTEWATER NETWORK ZAHLE PLAN VIEW & LONGITUDINAL PROFILE LINE ZH-AC SHEET (07 OF 08)			
Dwg No.: P-2111D-P1-WW-PLP-212		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.
 - 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:



CLIENT:



CONSULTANT:



Project Name: P-2111D

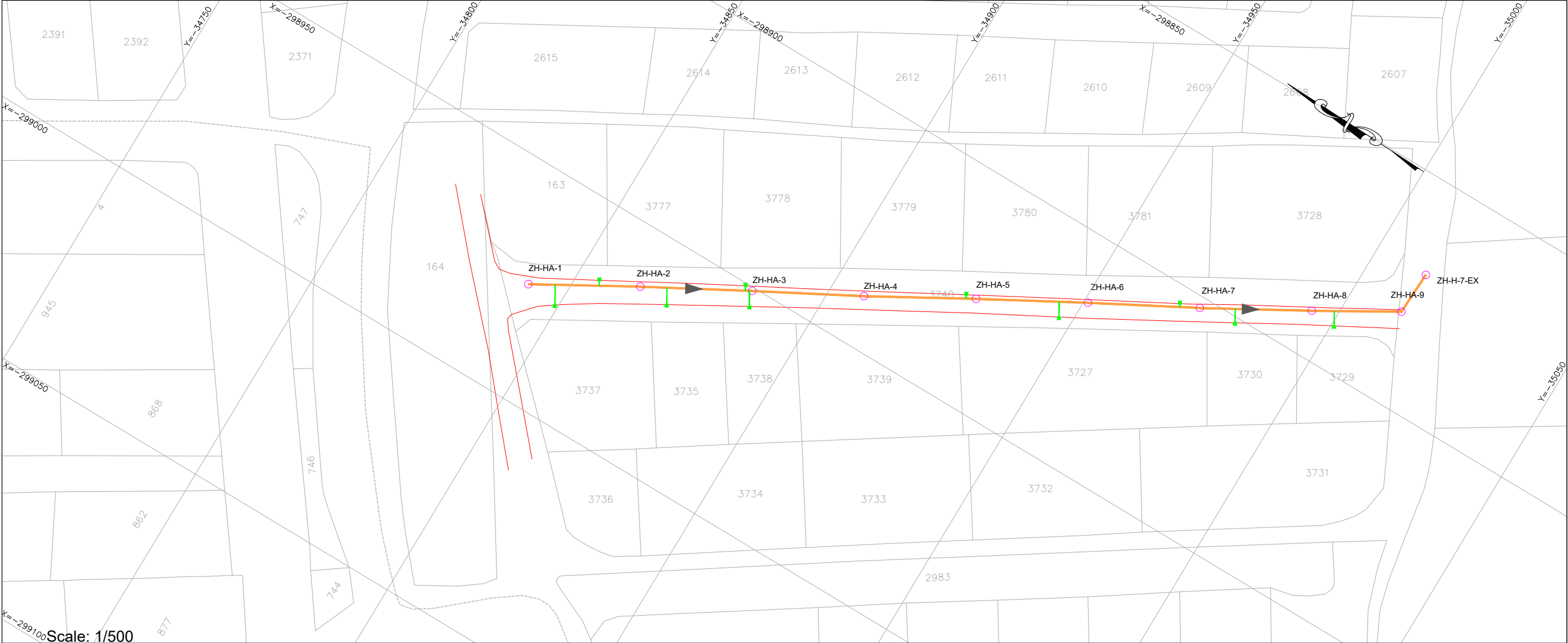
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:

WASTEWATER NETWORK
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-AC
SHEET (08 OF 08)

Dwg No.: P-2111D-P1-WW-PLP-213			Rev No.: 00
Date: SEPTEMBER-2026			Scale: A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

Scale: 1/1000

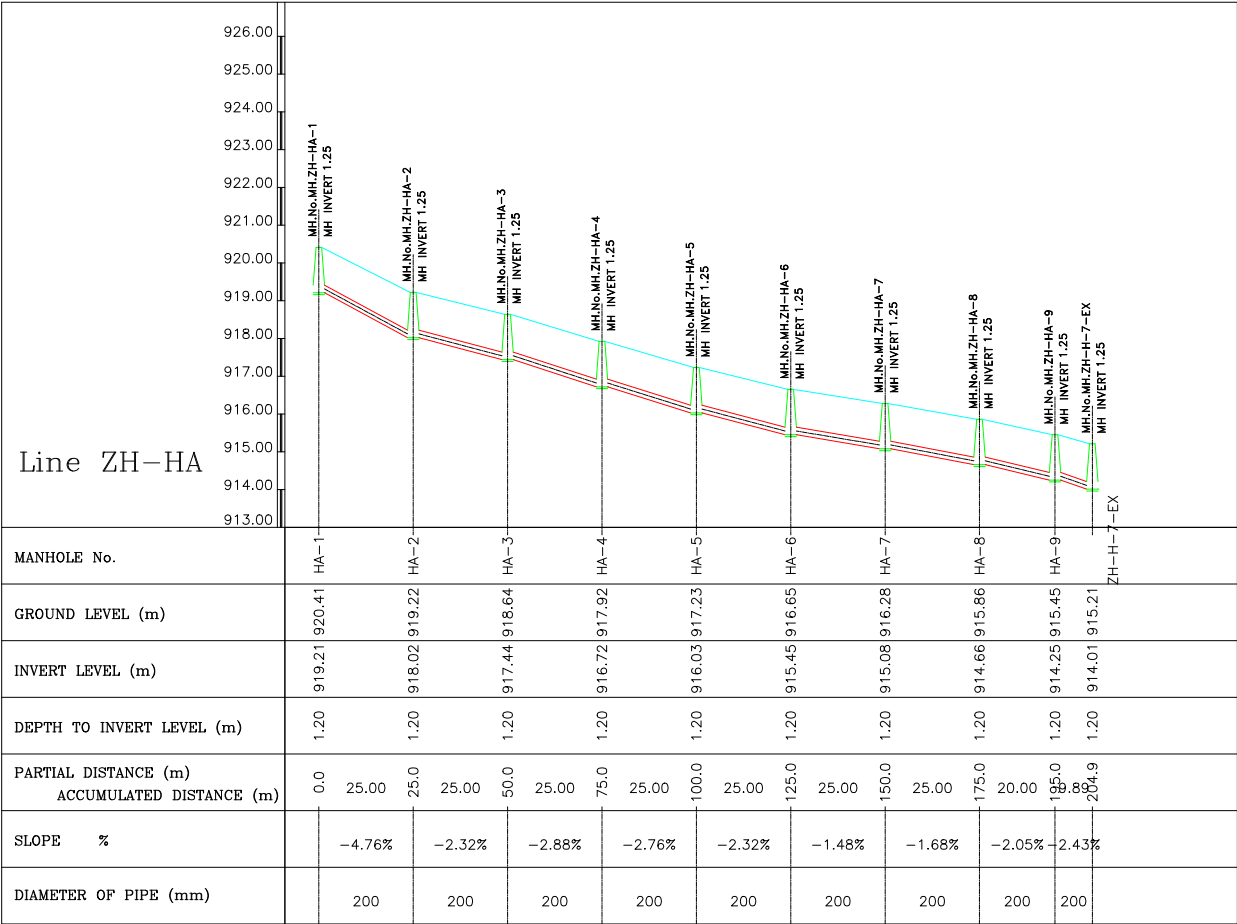


Scale: 1/500

- 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.
 - 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.

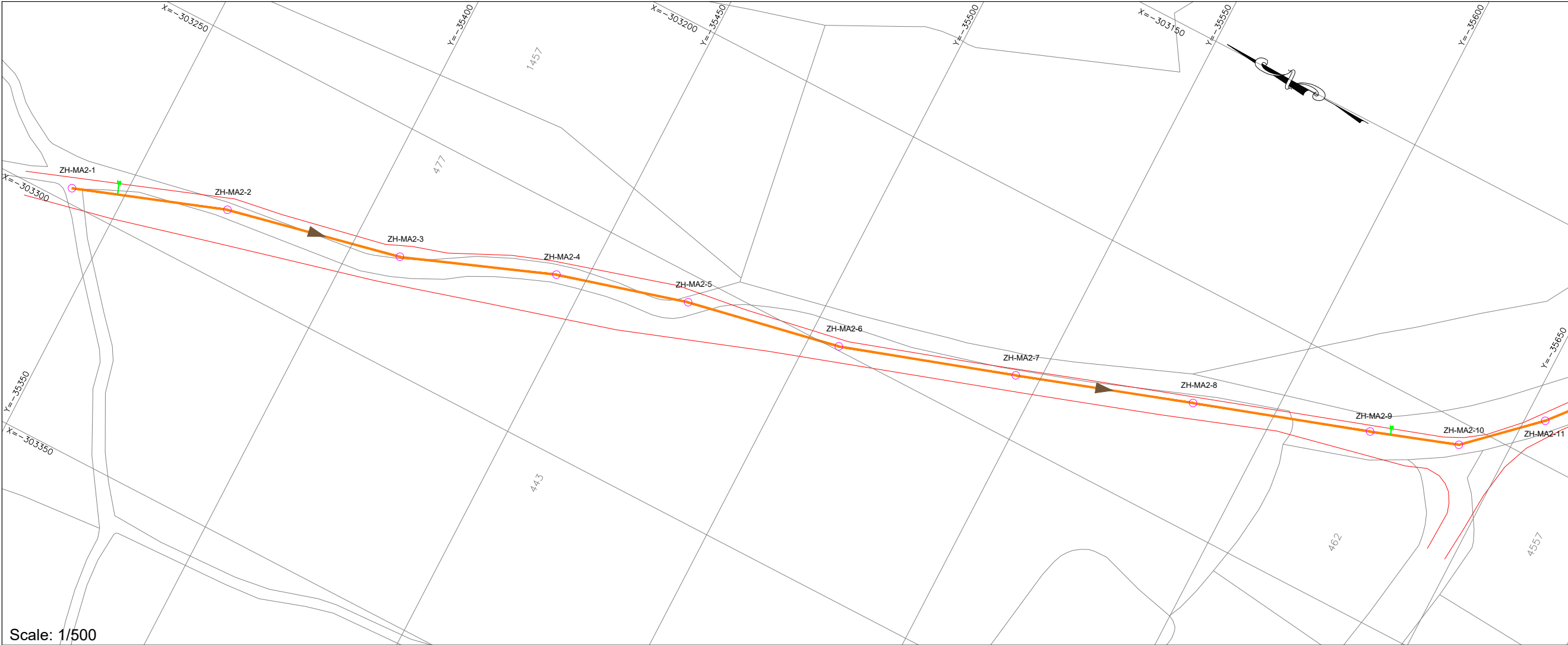
- PLAN LEGEND:
- PROPOSED WASTEWATER UPVC PIPE-200mm
 - PROPOSED WASTEWATER UPVC PIPE-250mm
 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

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



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 ZAHLE PLAN VIEW & LONGITUDINAL PROFILE LINE ZH-HA			
Dwg No.: P-2111D-P1-WW-PLP-214		Rev No.: 00	
Date: SEPTEMBER-2026		Scale: A.S.	
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

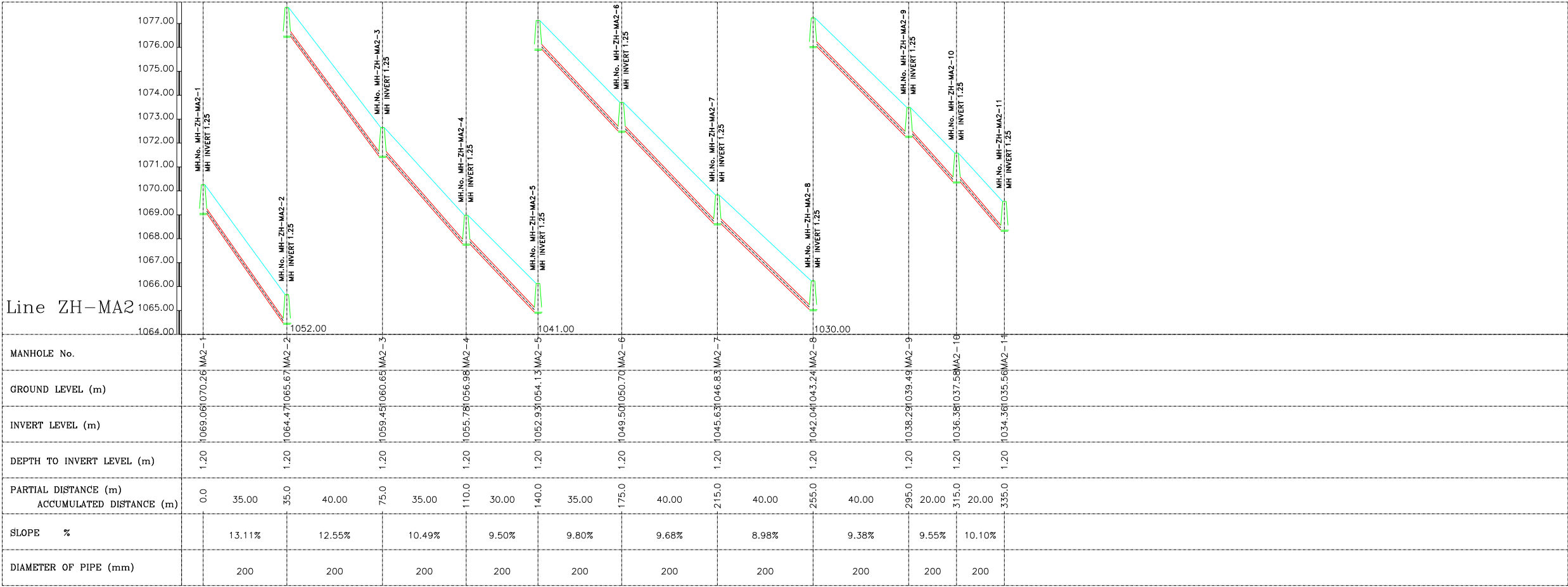


- NOTES:
- 1- ALL LEVELS AND DISTANCES ARE IN METERS UNLESS OTHERWISE INDICATED.
 - 2- DIMENSIONS MUST NOT BE SCALED ON THIS DRAWING.
 - 3- THE LENGTH OF PIPE IS MEASURED FROM THE CENTER OF MANHOLE TO THE CENTER OF MANHOLE.
 - 4- PROVIDE CONCRETE PROTECTION FOR PIPES ACCORDING TO DRAWING OR WHERE REQUIRED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

Scale: 1/500



Scale: 1/1000

01		
Rev.	DESCRIPTION	DATE

FUNDING AGENT:



CLIENT:



COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT:



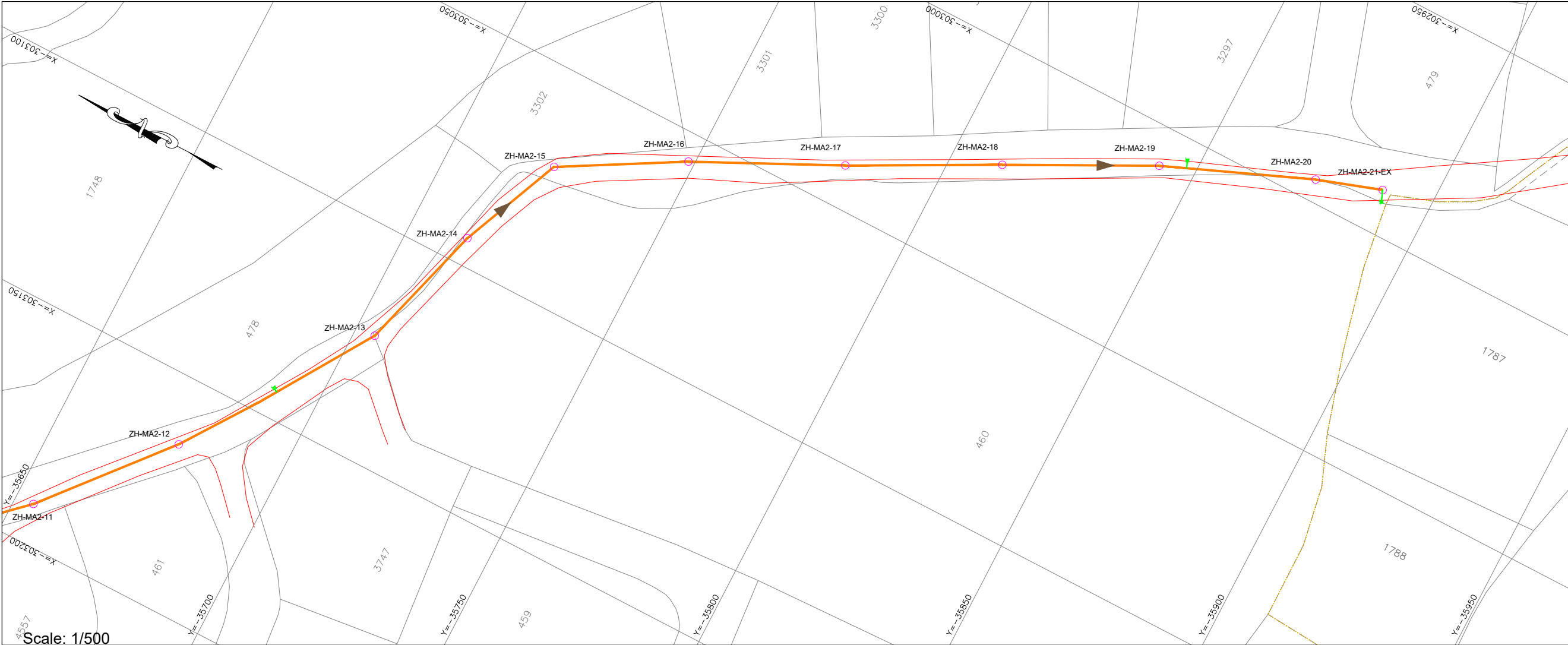
Project Name: P-2111D

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 ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-MA2
SHEET (01 OF 02)

Dwg No.: P-2111D-P1-WW-PLP-216			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.
 - 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
 - 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:



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
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-MA2
SHEET (02 OF 02)

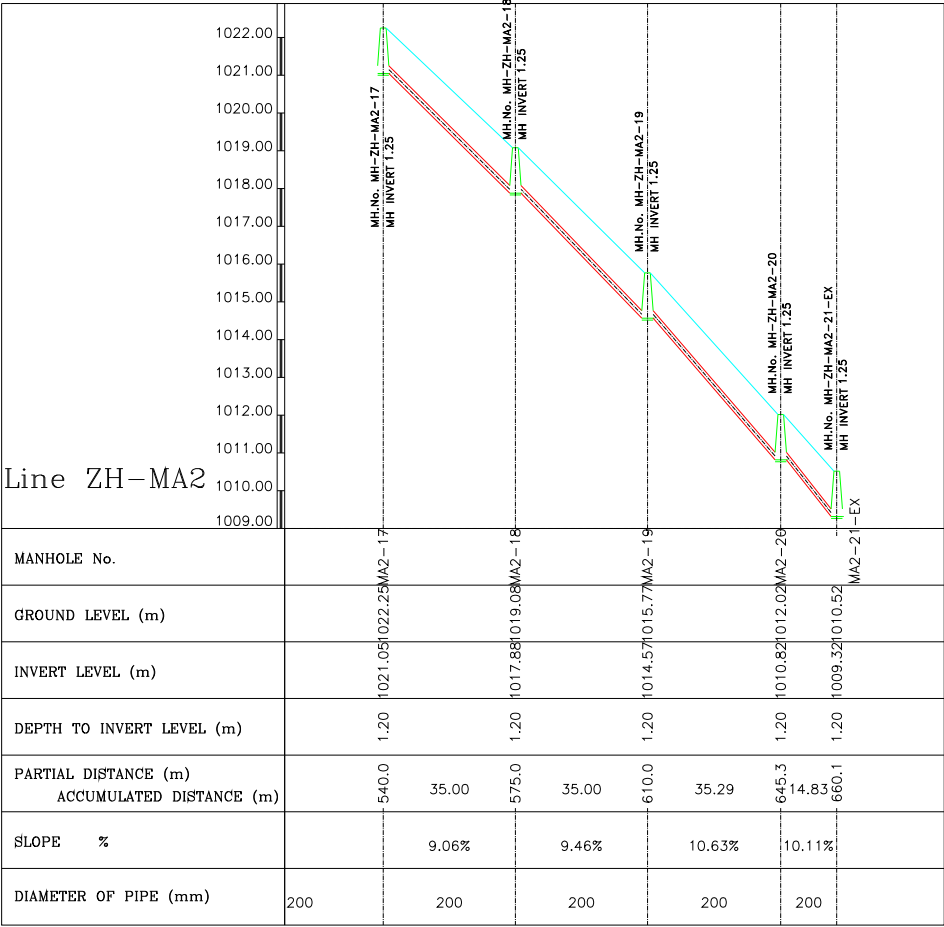
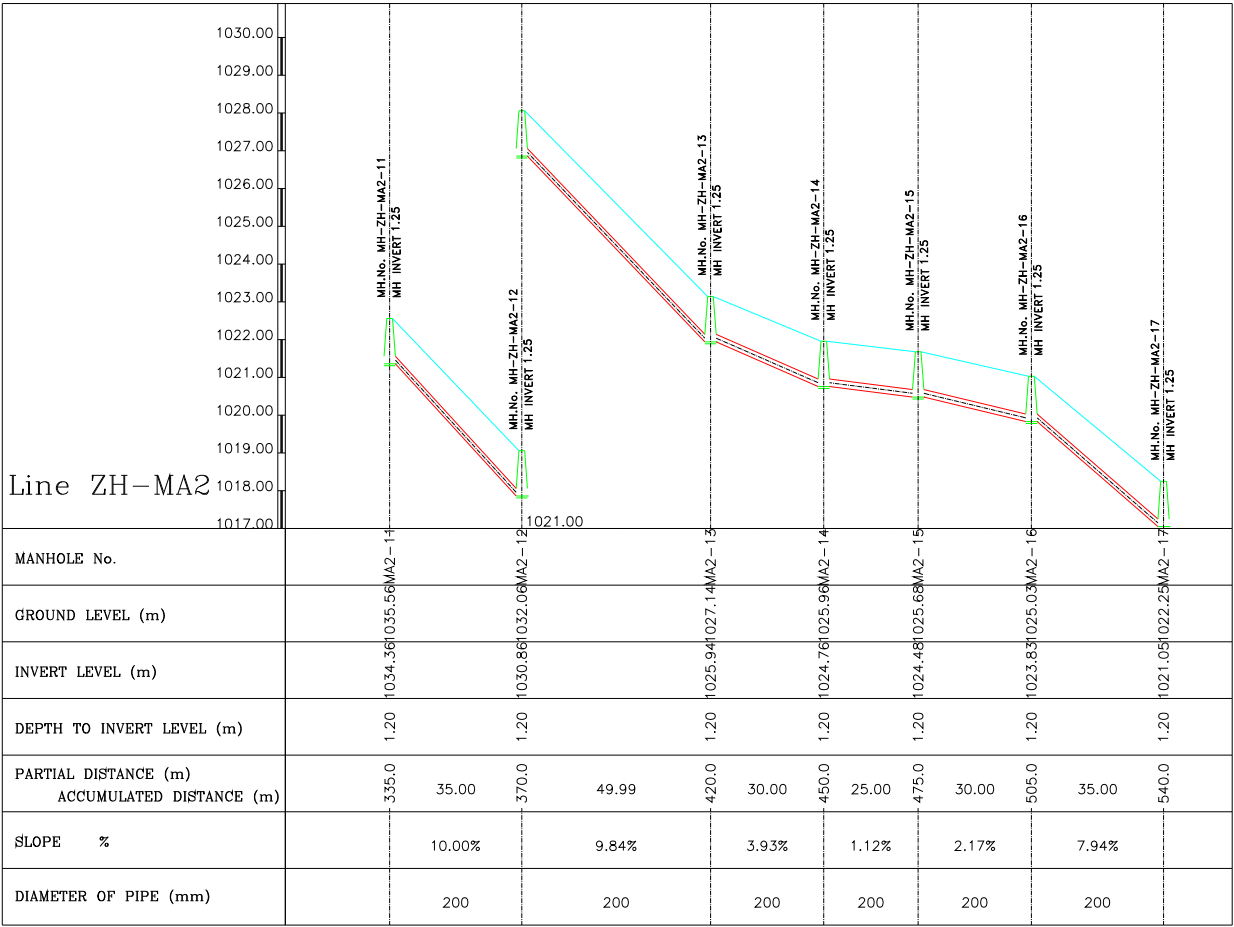
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Rev No.: 00

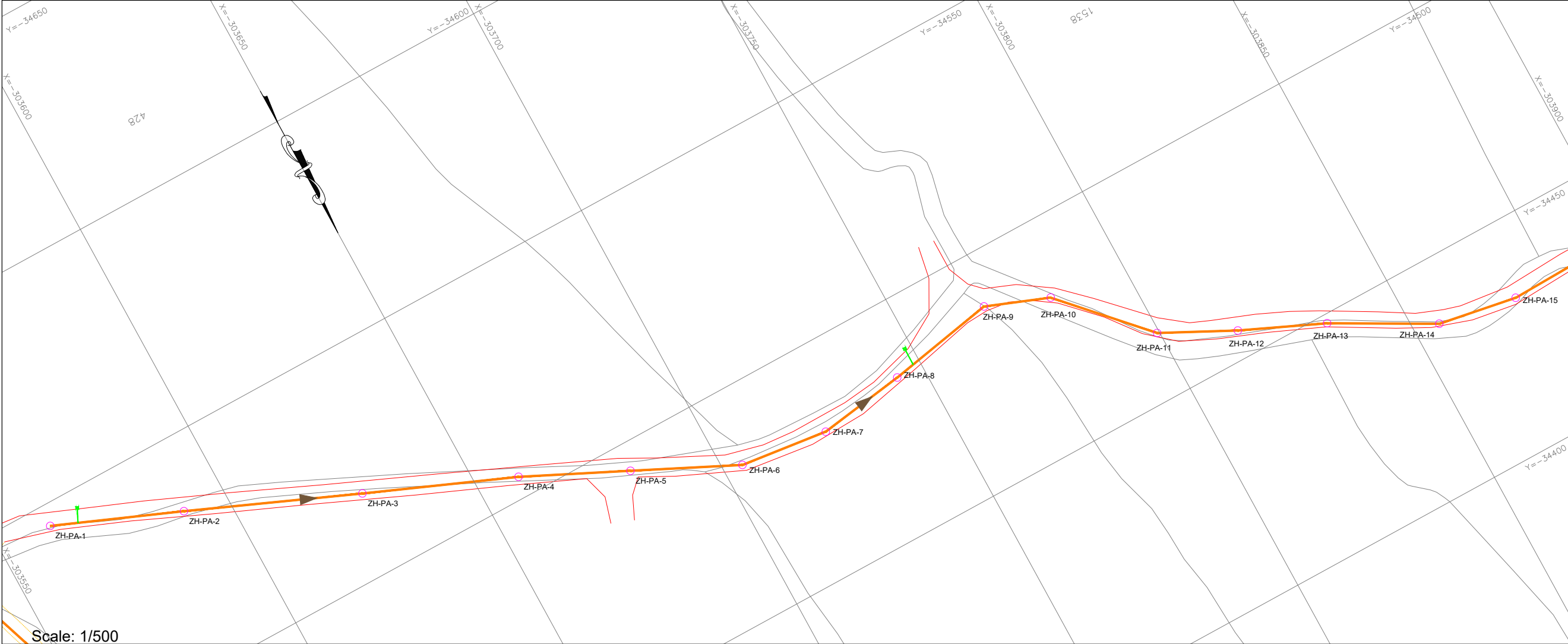
Date: SEPTEMBER-2026

Scale: A.S.

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



CLIENT:



COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

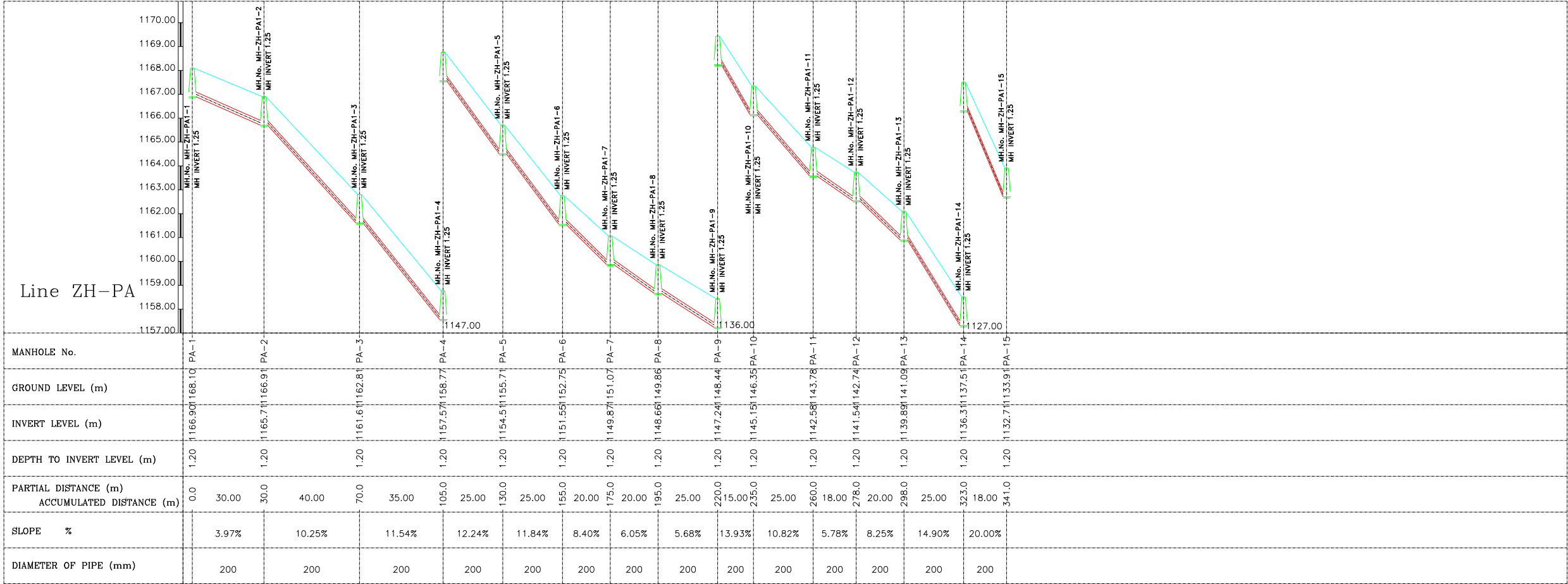
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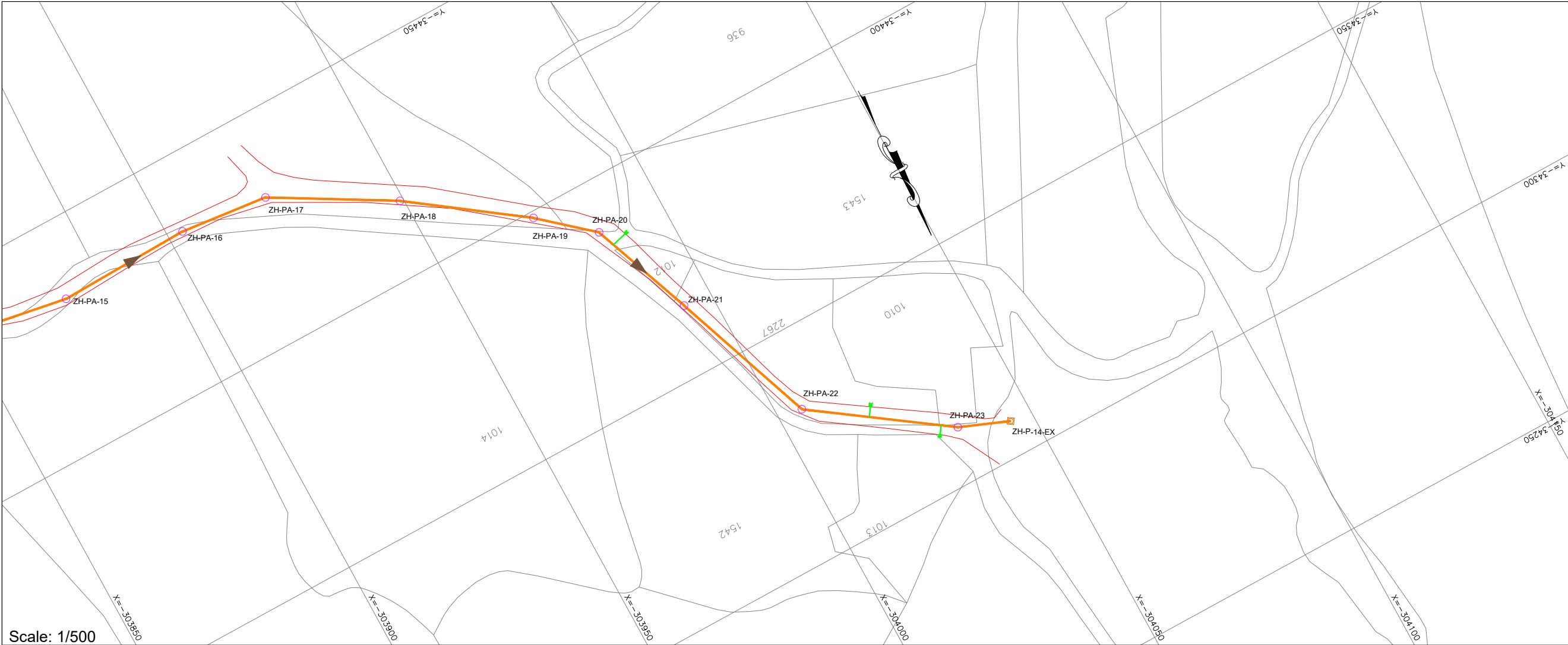
Project Name: P-2111D
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:
WASTEWATER NETWORK
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-PA
SHEET (01 OF 02)

Dwg No.: P-2111D-P1-WW-PLP-218			Rev No.: 00
Date: SEPTEMBER-2026			Scale: A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



Scale: 1/1000

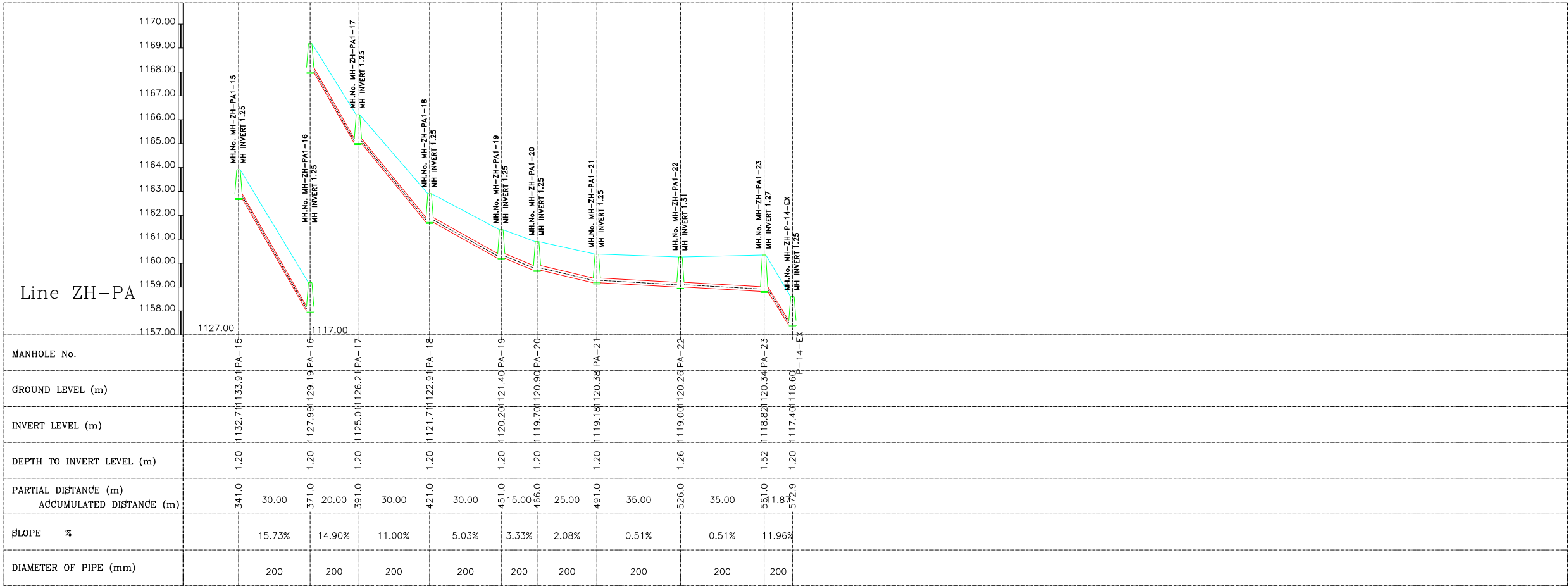


Scale: 1/500

- 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.
 - 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.

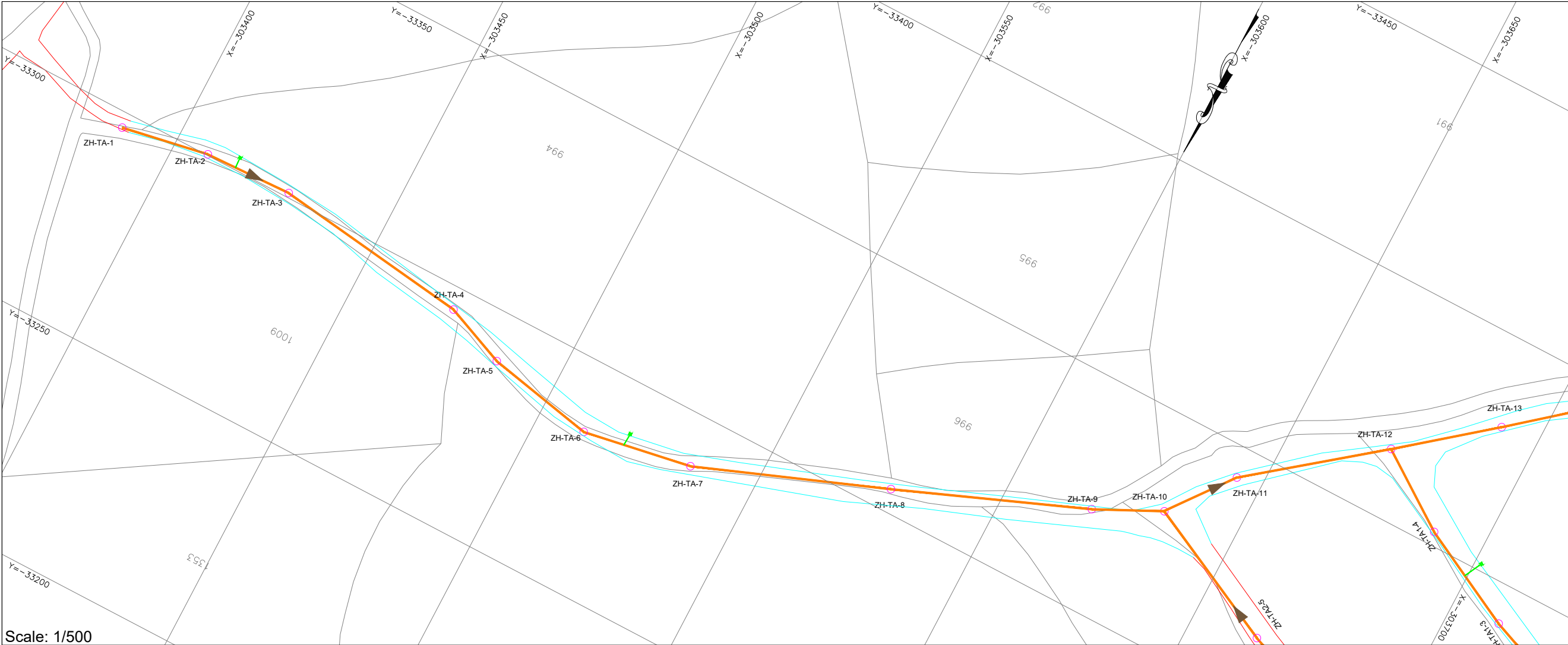
- PLAN LEGEND:
- PROPOSED WASTEWATER UPVC PIPE-200mm
 - PROPOSED WASTEWATER UPVC PIPE-250mm
 - PROPOSED WASTEWATER UPVC PIPE-300mm
 - PROPOSED WASTEWATER CONCRETE PIPE-500mm
 - PROPOSED WASTEWATER CONCRETE PIPE-600mm
 - ZH-TA-8
 - PROPOSED WASTEWATER MANHOLE
 - PROPOSED HOUSE CONNECTION

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



Scale: 1/1000

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 ZAHLE PLAN VIEW & LONGITUDINAL PROFILE LINE ZH-PA SHEET (02 OF 02)			
Dwg No.: P-2111D-P1-WW-PLP-219		Rev No.: 00	
Date: SEPTEMBER-2026		Scale: A.S.	
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.



Scale: 1/500

- 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.
 - 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:
- 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

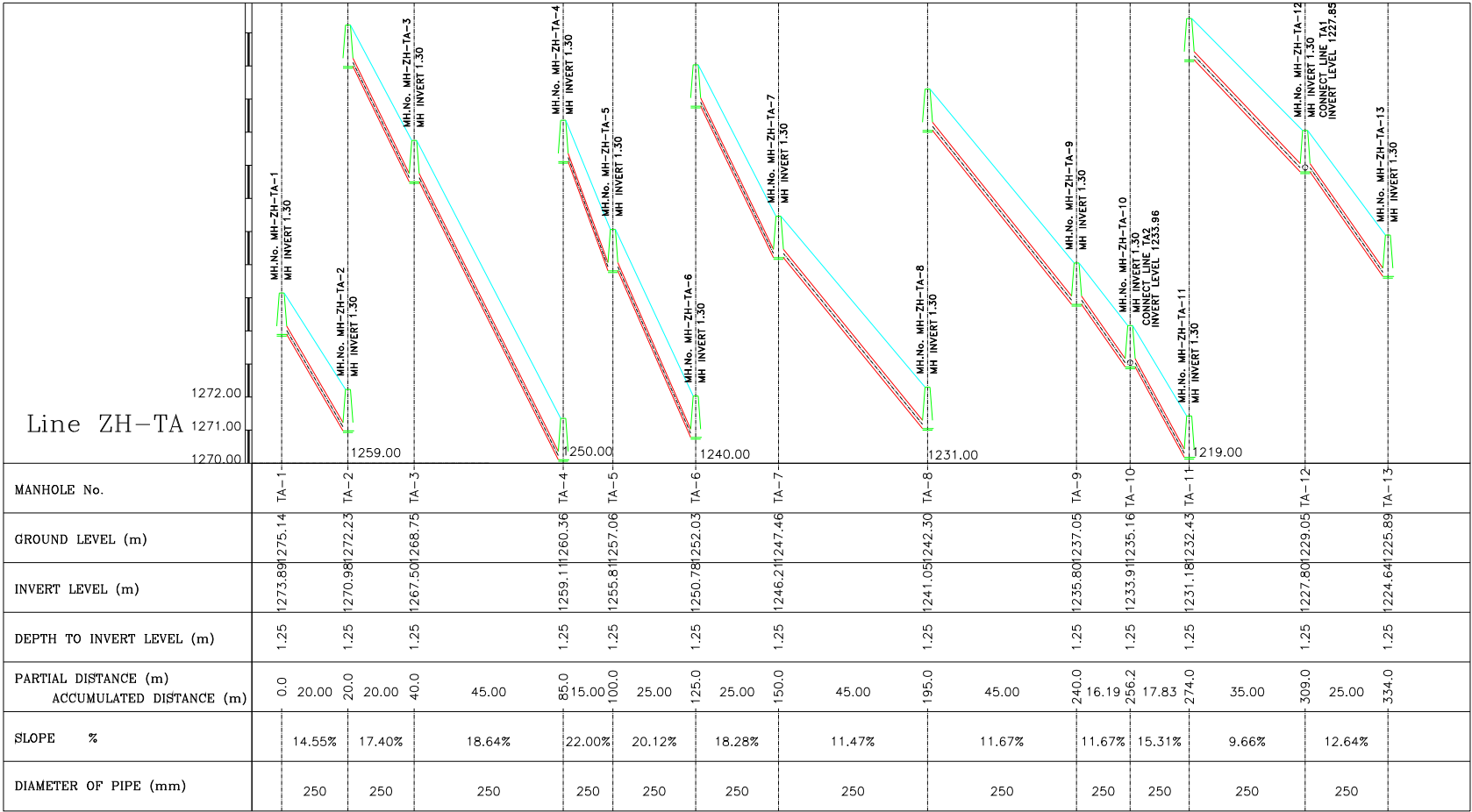
CONSULTANT:



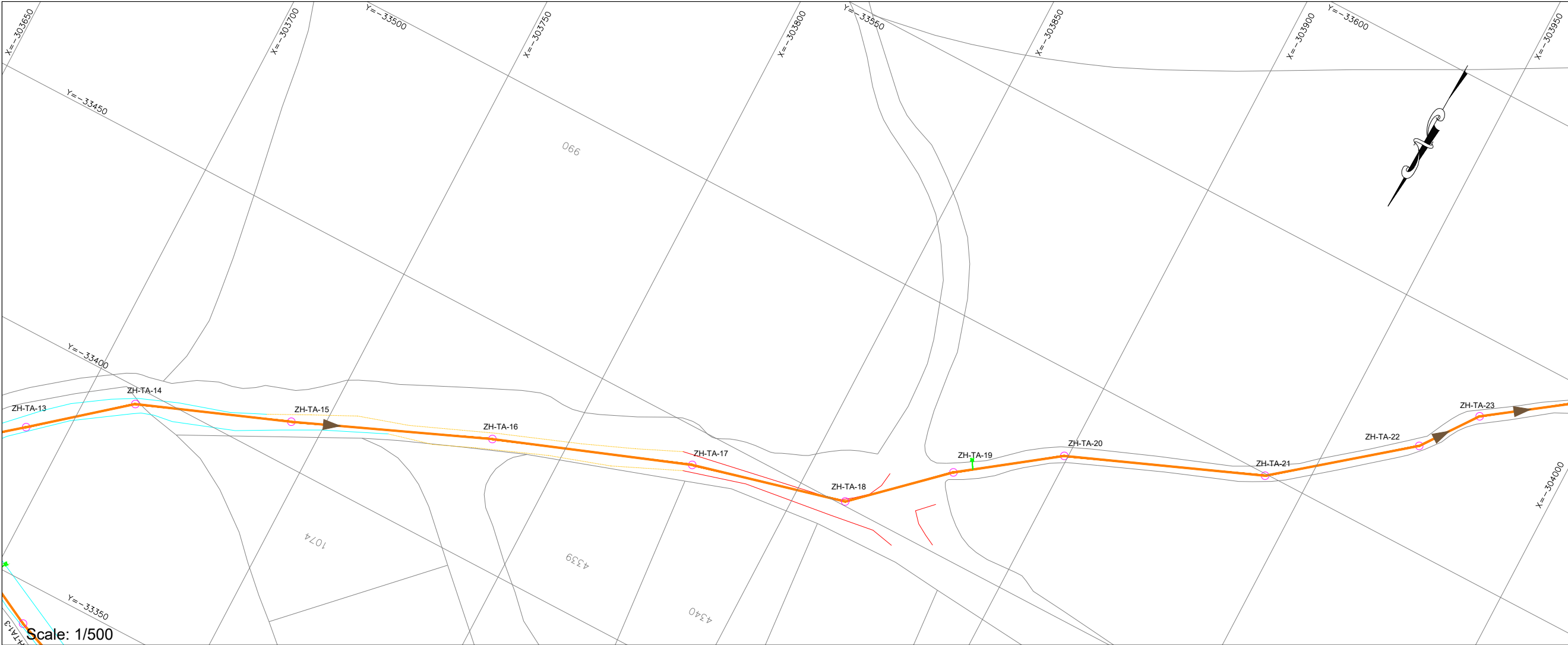
Project Name: P-2111D
COMPLEMENTARY WORKS FOR THE EXPANSION OF THE SEWAGE COLLECTION NETWORK TO CONNECT TO THE ZAHLE WASTEWATER TREATMENT PLANT AND AITANIT WASTEWATER TREATMENT PLANT (GC2W2C)

Drawing Title:
WASTEWATER NETWORK
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-TA
SHEET (01 OF 03)

Dwg No.: P-2111D-P1-WW-PLP-220			Rev No.: 00
Date: SEPTEMBER-2026			Scale: A.S.
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.
 - 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
 - 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:



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
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-TA
SHEET (02 OF 03)

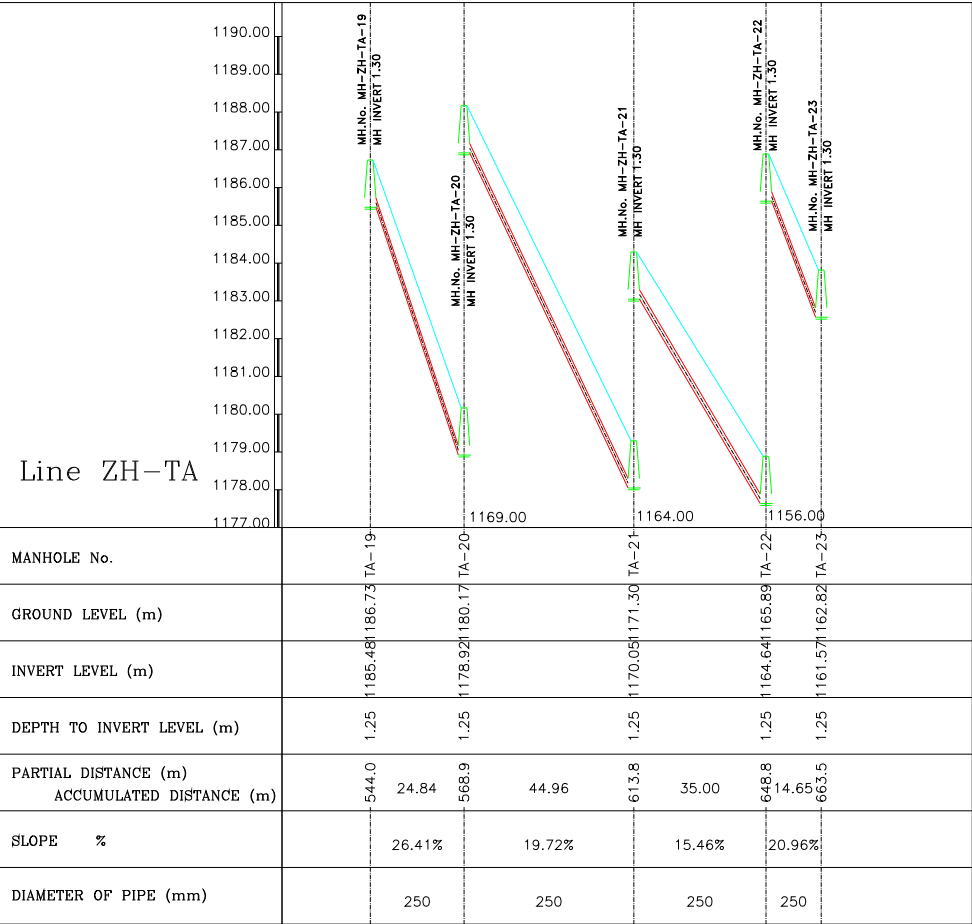
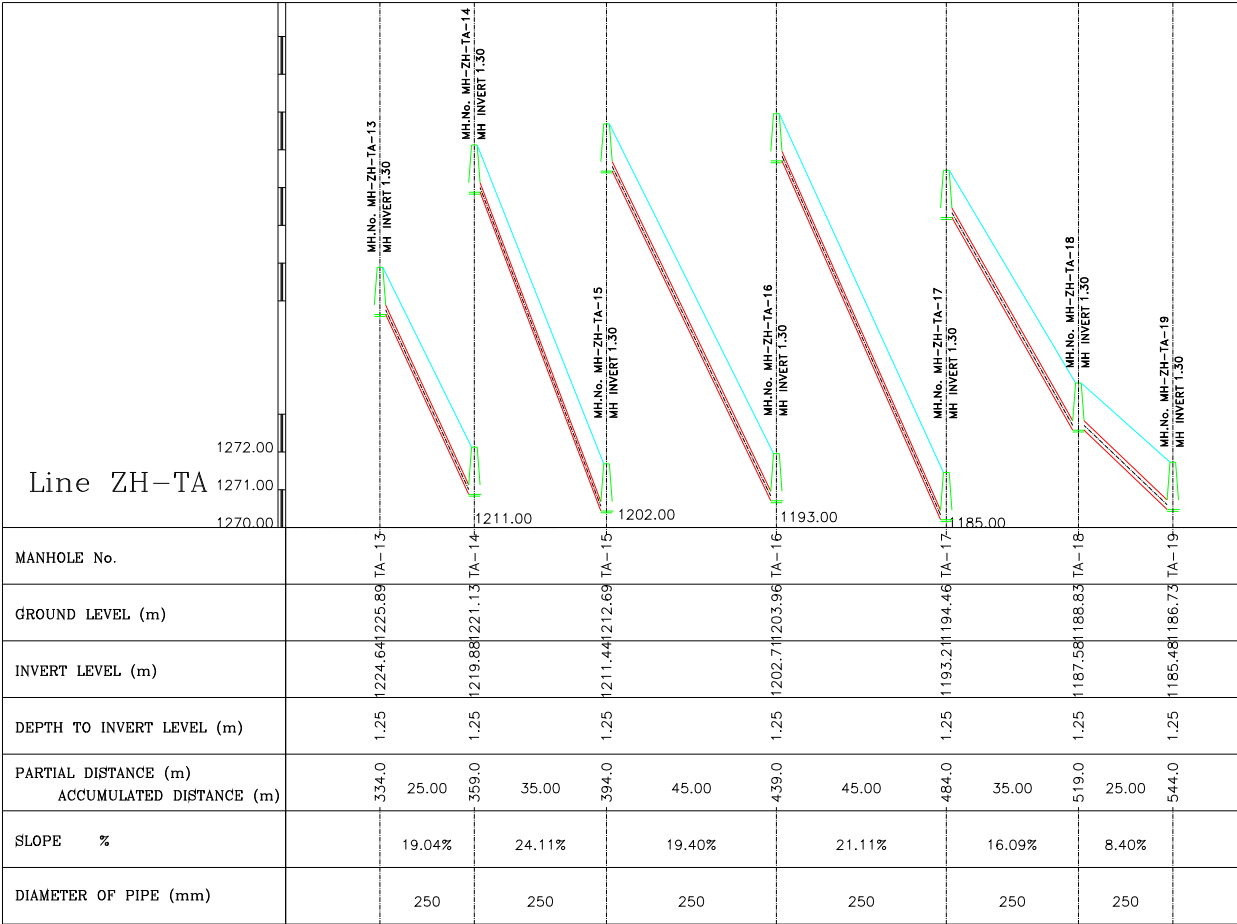
Dwg No.: P-2111D-P1-WW-PLP-221

Rev No.: 00

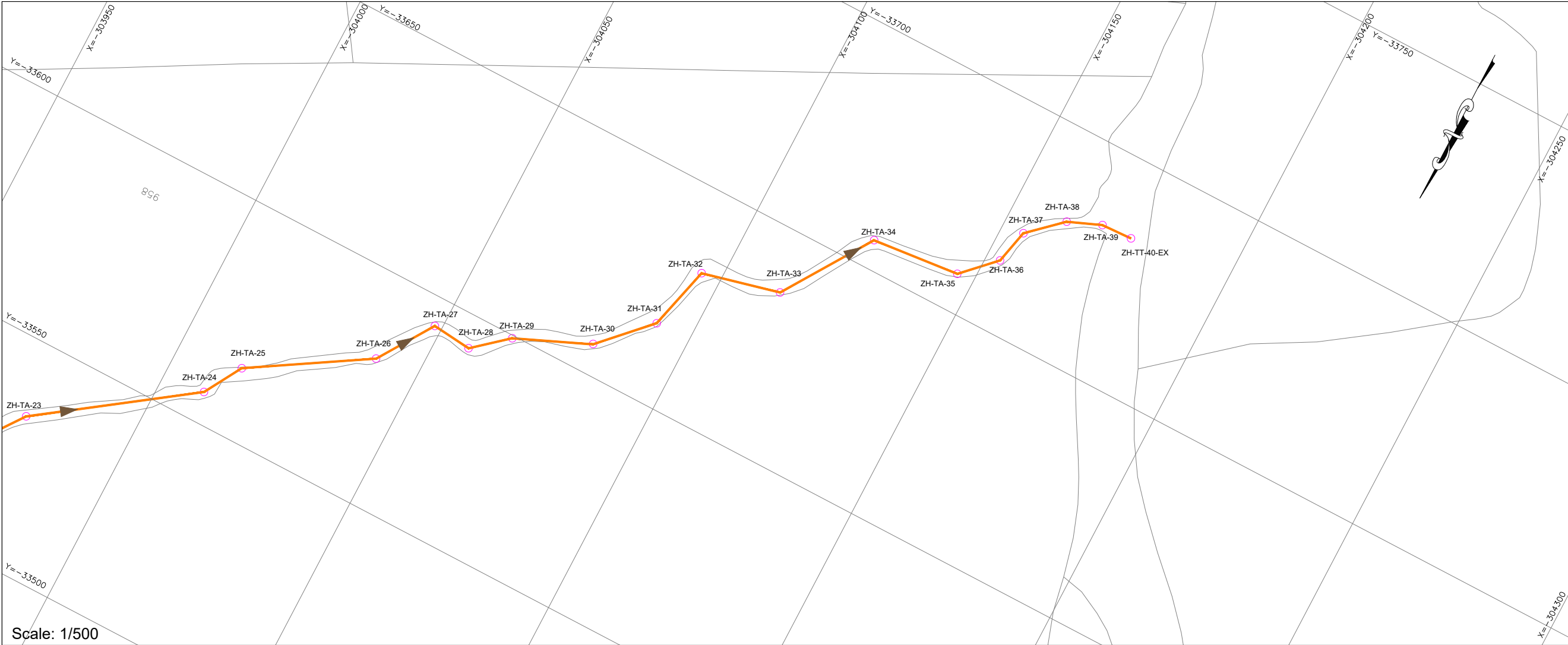
Date: SEPTEMBER-2026

Scale: A.S.

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



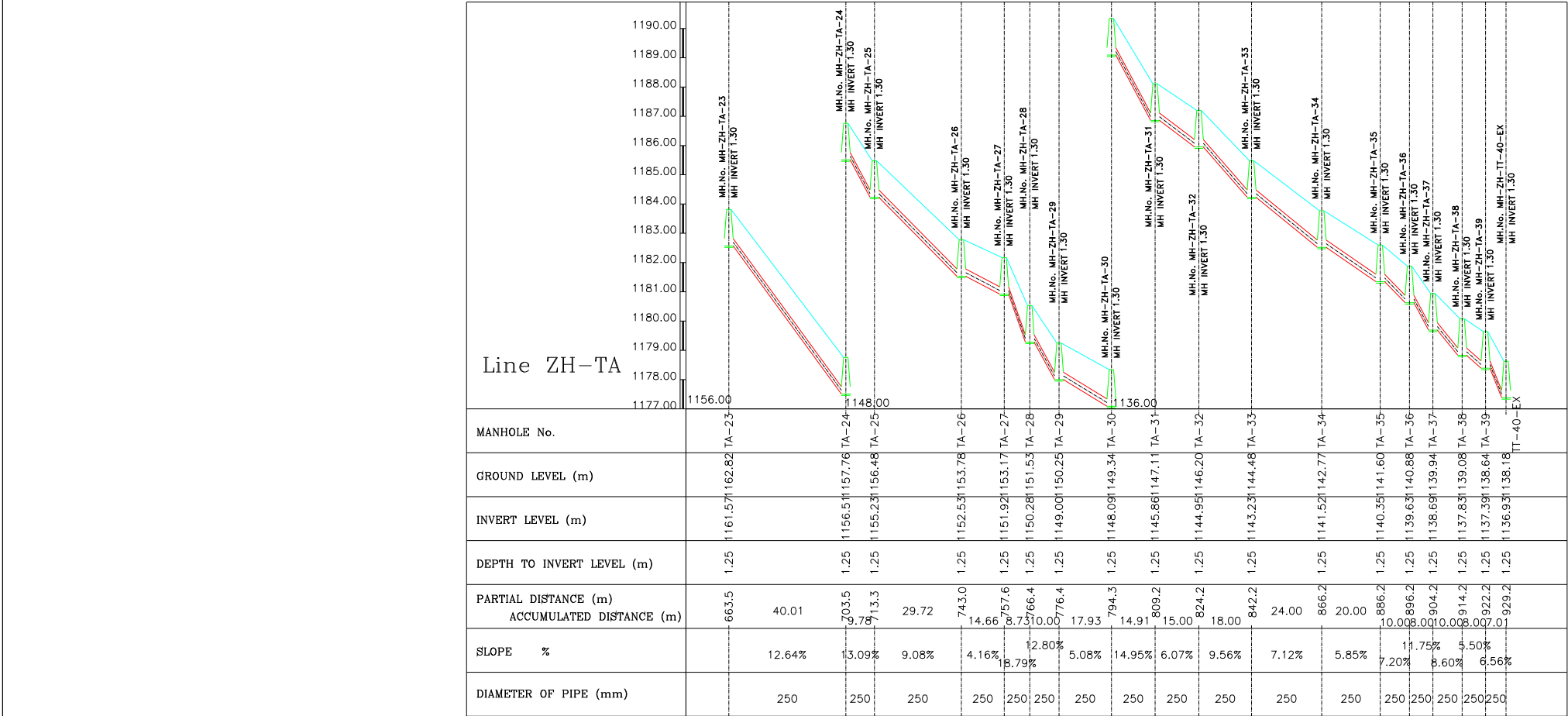
Scale: 1/1000



- 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.
 - 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
 - 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:



CLIENT:



CONSULTANT:



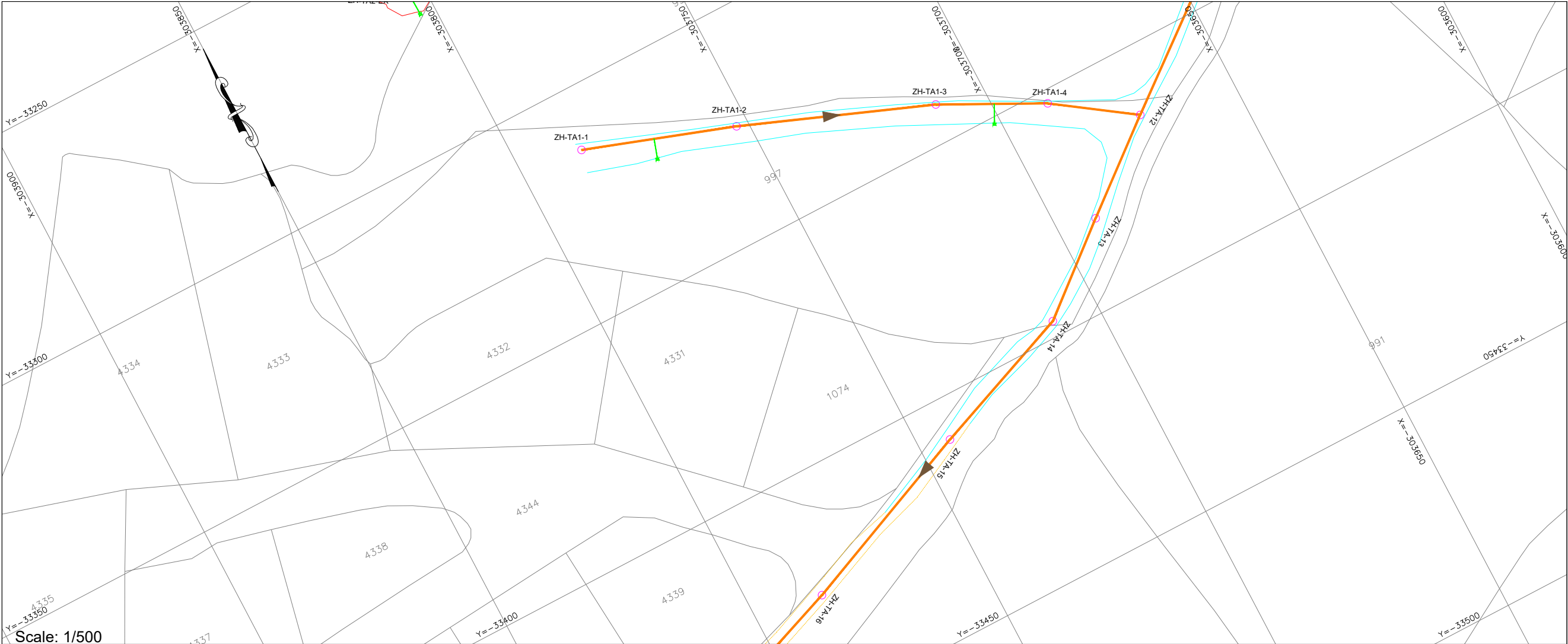
Project Name: P-2111D

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
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-TA
SHEET (03 OF 03)

Dwg No.: P-2111D-P1-WW-PLP-222			Rev No.: 00
Date: SEPTEMBER-2026			Scale: A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.

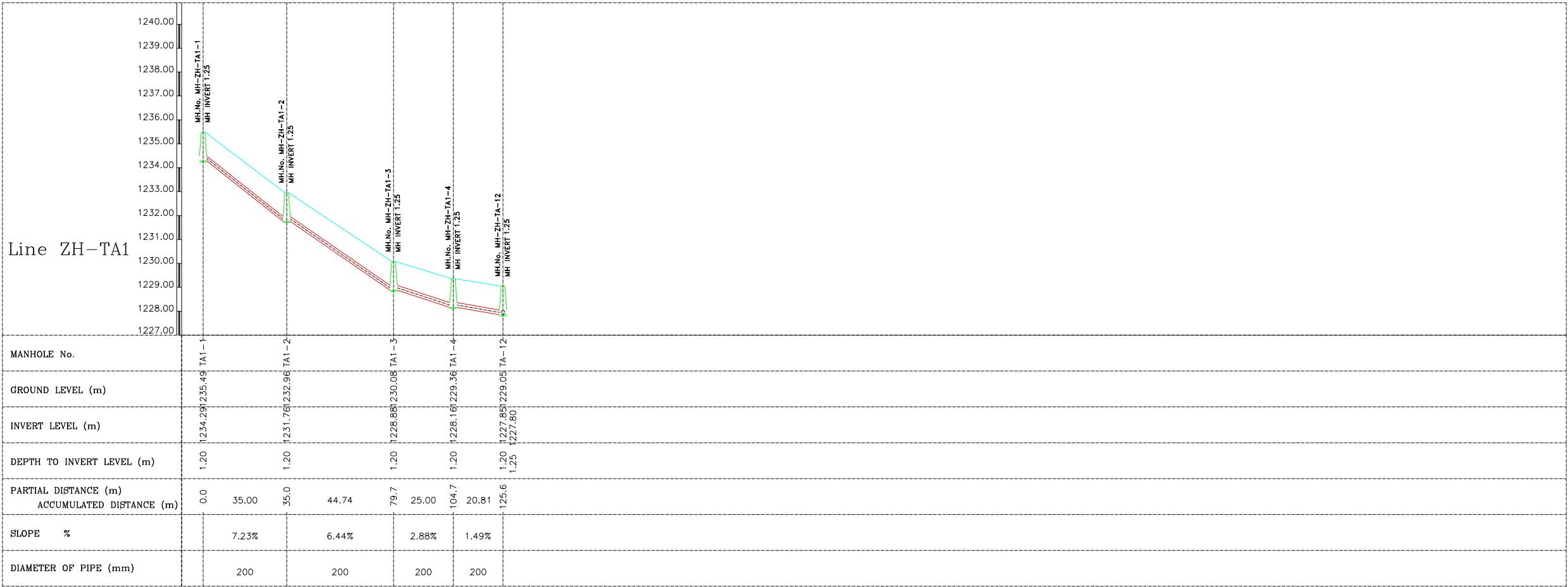


Scale: 1/500

- 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.
 - 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



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
ZAHLE
PLAN VIEW & LONGITUDINAL PROFILE
LINE ZH-TA1

Dwg No.:	P-2111D-P1-WW-PLP-223	Rev No.:	00
Date:	SEPTEMBER-2026	Scale:	A.S.
Drawn	Designed	Checked	Approved
O.D	M.N	R.S	G.K.