



CONSULTANCY SERVICES FOR CONDUCTING SURVEYS AND DEVELOPMENT OF DESIGNS FOR SAOS
- UPPER EMINING WATER SUPPLY PROJECTS UNDER EDE-CPIRA PROGRAMME IN BARINGO
COUNTY

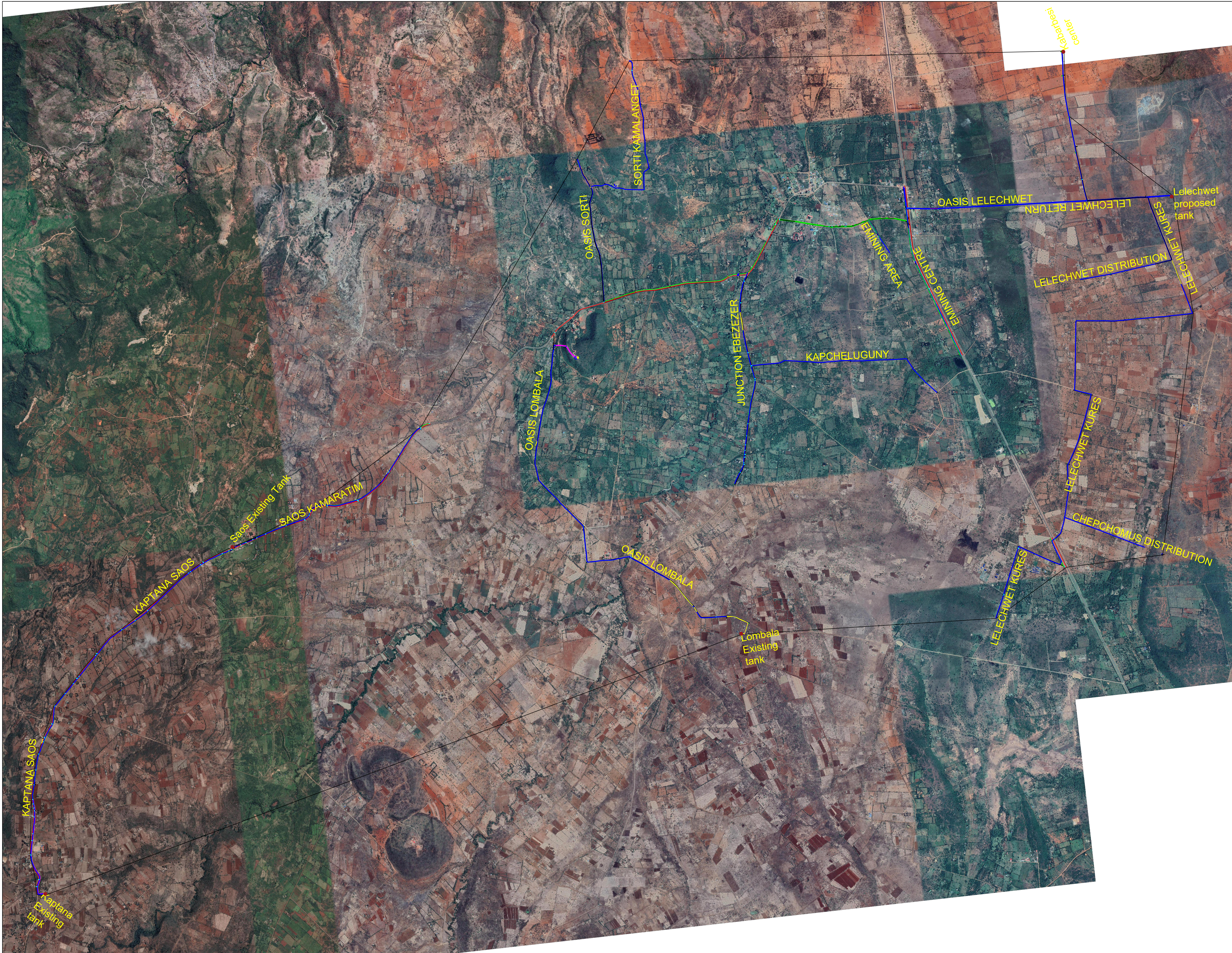
CONTRACT NO.: WSTF/EU/RFP/08/2022-2023

TENDER DRAWINGS

CONSULTANT:



DATE:



NOTES:

1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
2. PIPES ARE TO BE LAID TO EVEN GRADIENTS WITH A MINIMUM COVER OF 1.0m AND 1.2m FOR TRAFFICKED AREAS. WHERE COVER IS LESS THAN THIS, PIPE TO BE SURROUNDED WITH CONCRETE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELATED DRAWINGS. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
4. PRECISE ROUTES TO BE DETERMINED ON SITE.

LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
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	CHECKED			

Client:

**WaterFund**
Financing the Water Sector

Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:



GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, 00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN
GENERAL LAYOUT

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	DECEMBER 2023
Job No.	WSTF/23	ACAD File:	Saos

0 STATUS	DRAWING NO. SHEET 1 OF 1	0 REV
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**CONSULTANCY SERVICES FOR CONDUCTING SURVEYS AND DEVELOPMENT OF DESIGNS FOR SAOS - UPPER EMINING WATER SUPPLY PROJECTS UNDER EDE-CPIRA
PROGRAMME IN BARINGO COUNTY**

CONSTRUCTION DOCUMENTS: BOOK OF DRAWINGS

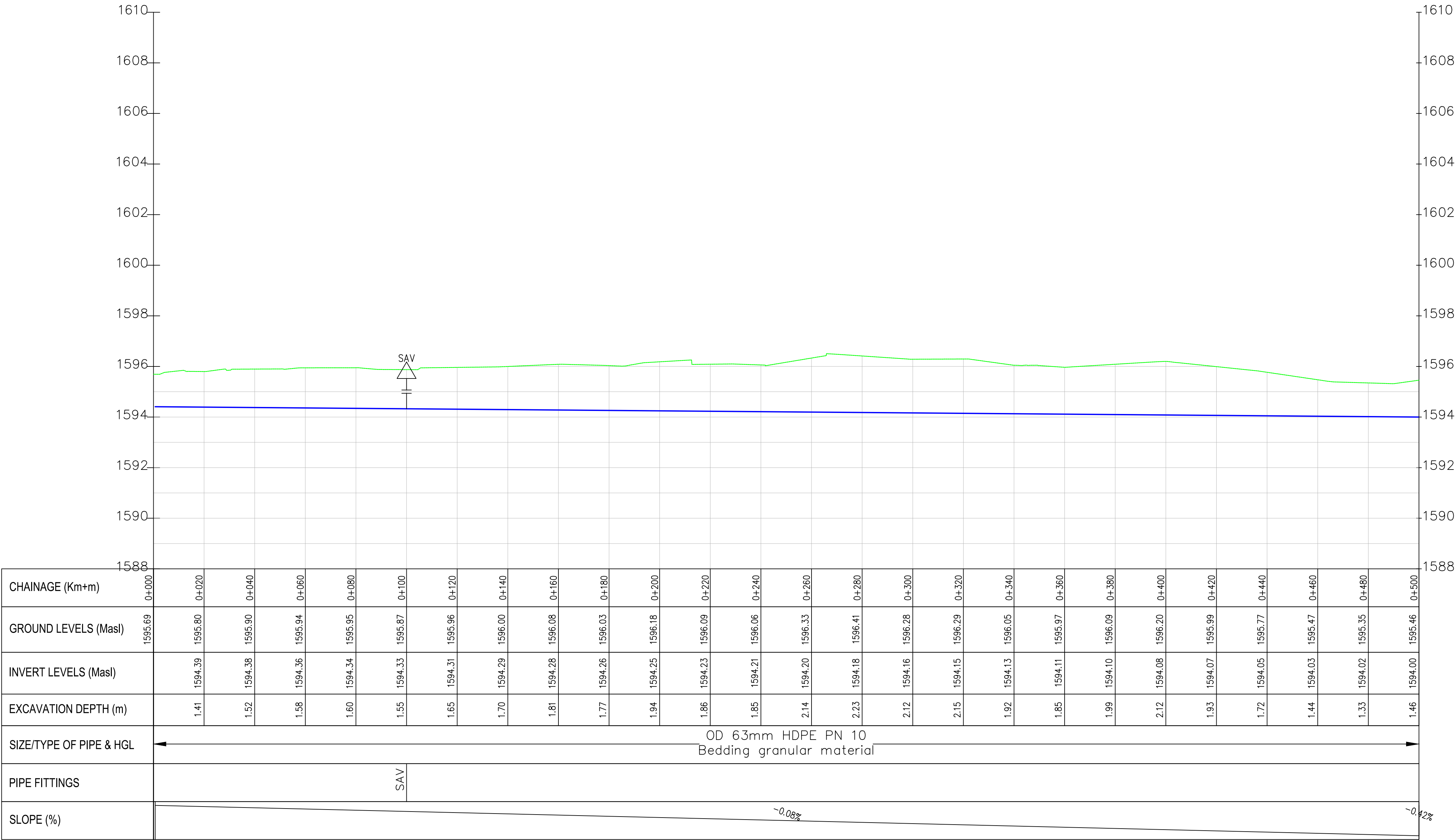
DRAWING INDEX-SAOS EMINING-UPPER EMINING

No.	Drawing No.	Drawing Title.
1.	WATER PIPELINES PROFILES DRAWINGS	EMINING CENTRE (Plan and Profile Sheet 1 of 5)
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Eminging centre PROFILE



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PRELIMINARY ISSUE
Signed: Team Leader

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Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
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Design Consultants:



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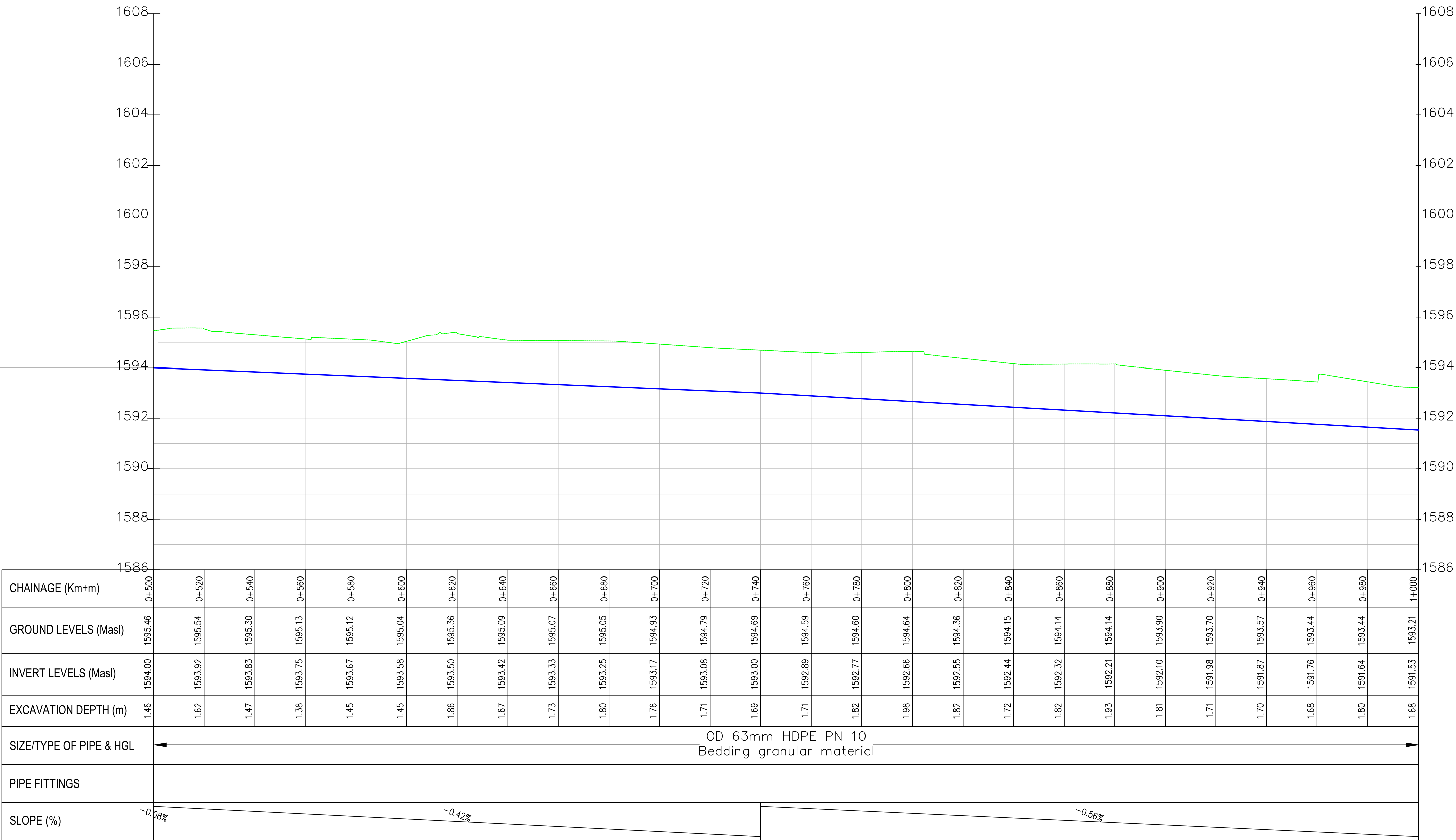
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PROPOSED SAOS-EMINGING WATER LINES
PLAN AND PROFILE
EMINGING CENTRE

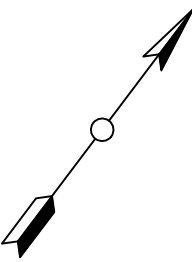
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Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 5		0 REV



Emining centre PROFILE



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Signed: Team Leader

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Project:

SAOS - UPPER EMINING
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Design Consultants:

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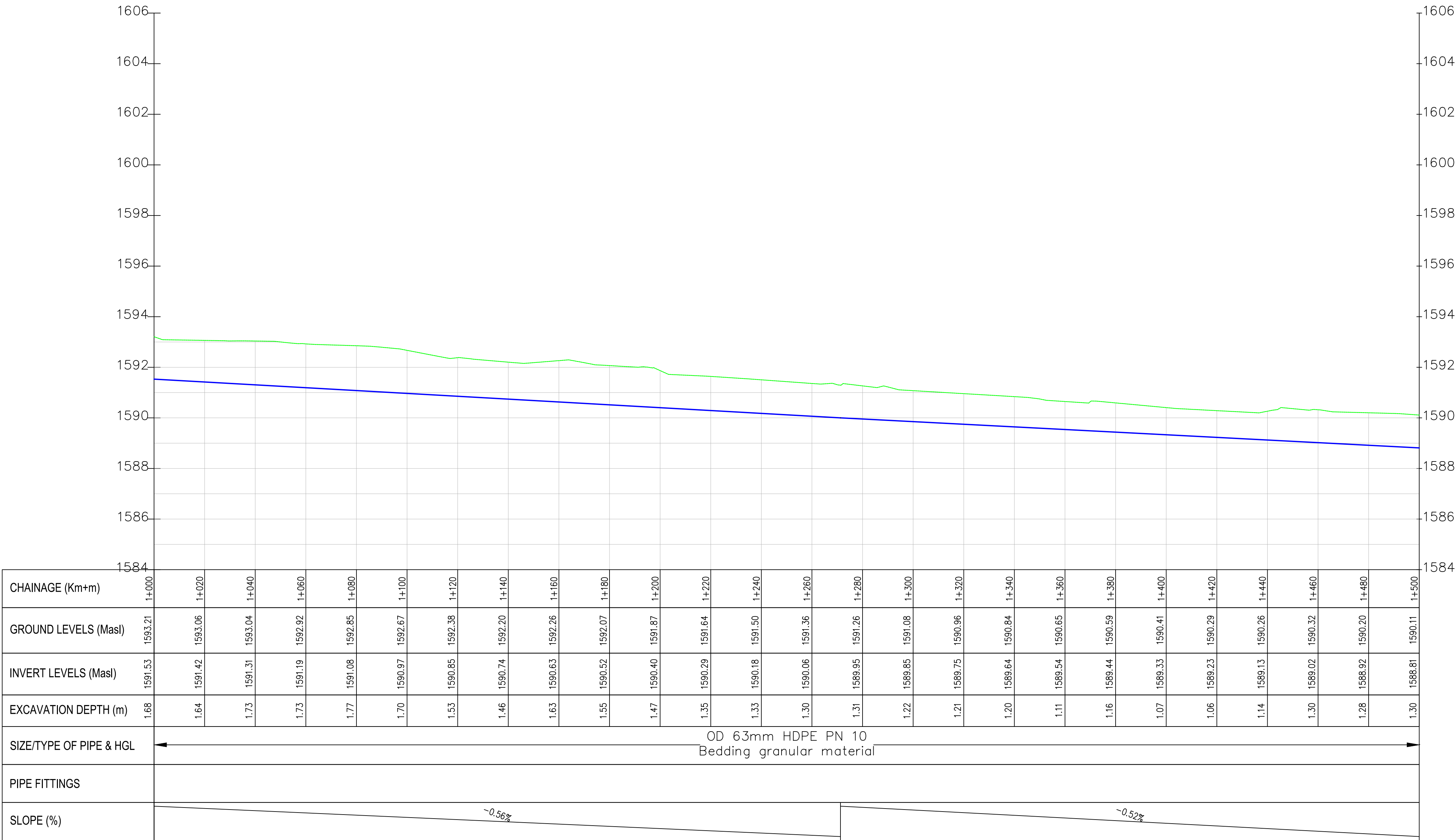
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PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
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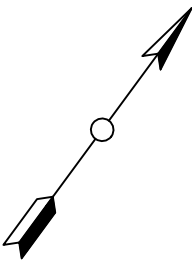
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Eming centre PROFILE



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SAOS - UPPER EMINING
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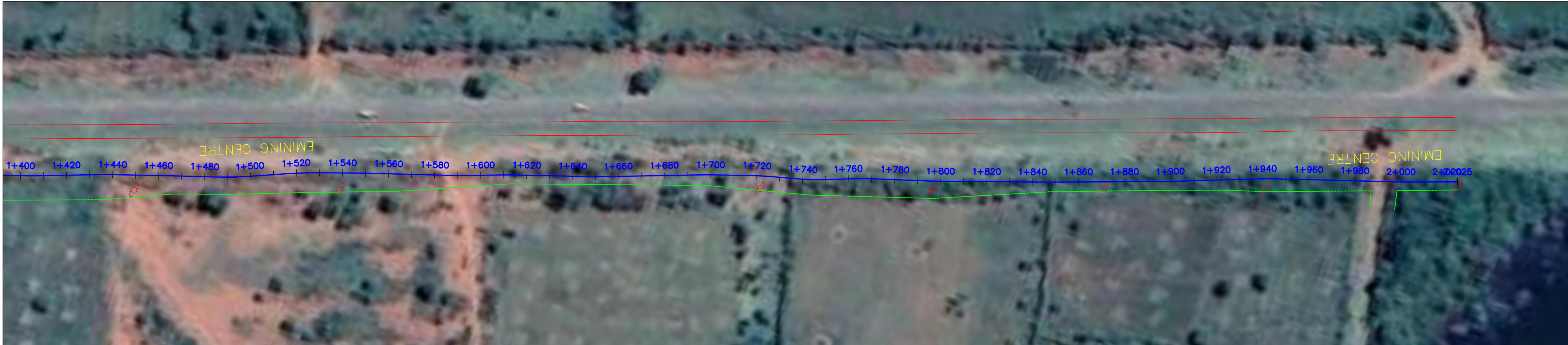
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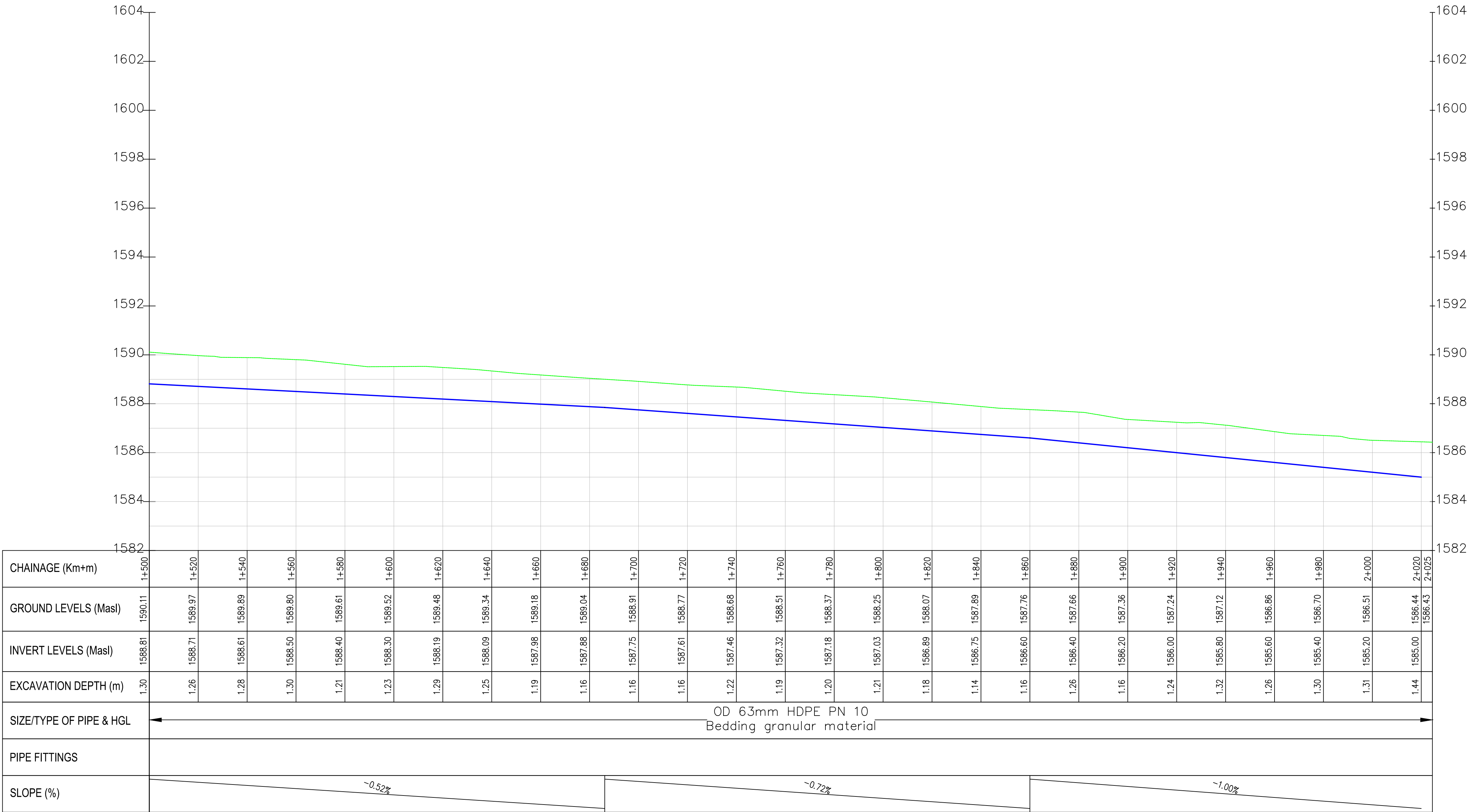
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PROPOSED SAOS-EMING WATER LINES
PLAN AND PROFILE
EMING CENTRE

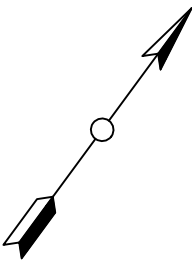
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Emining centre PROFILE



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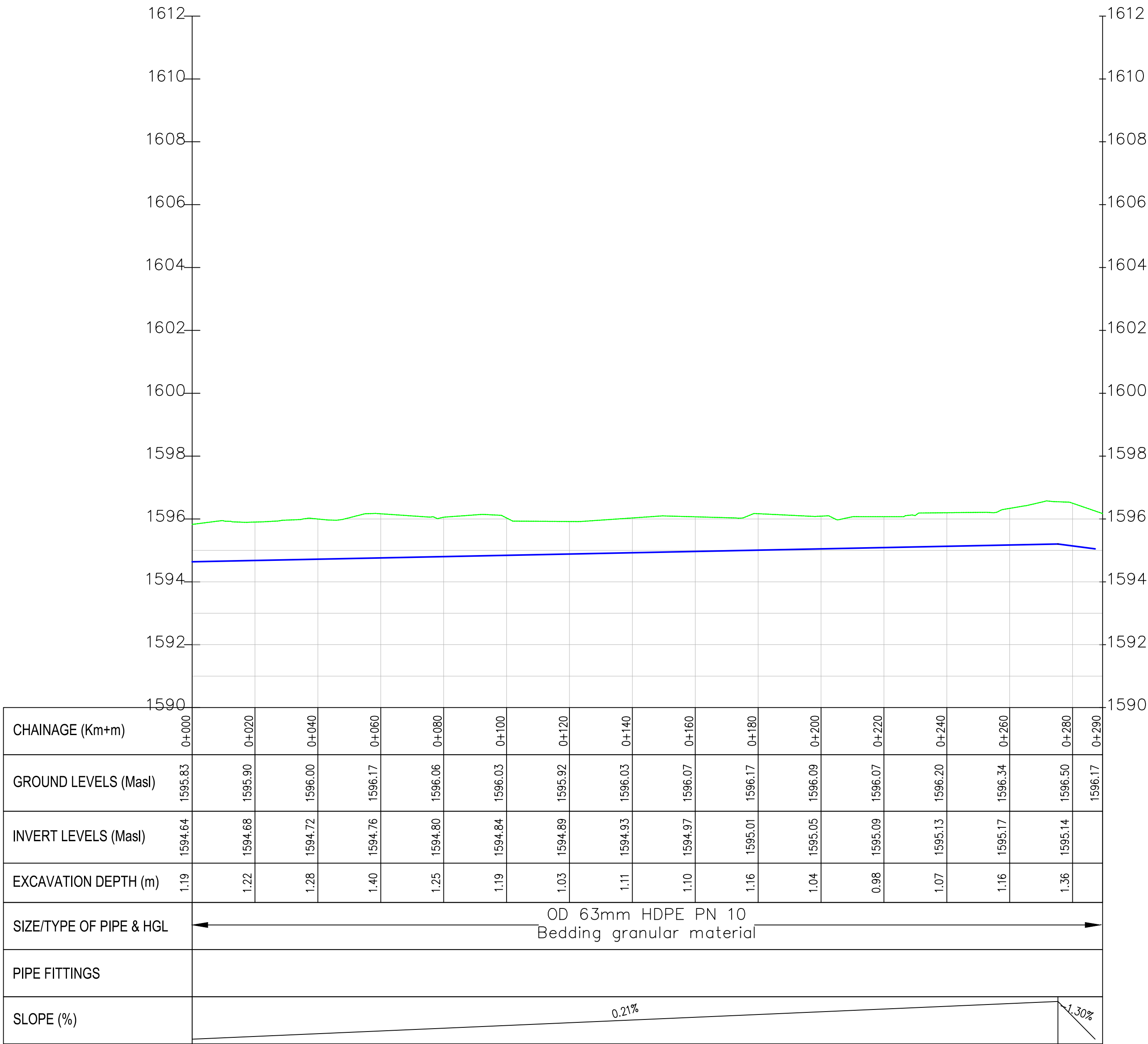
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
Saos 1**

Designed by	CWM	Drawn by	SMN
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Scale	H = 1:1,000 V = 1:100	Date	November 2023
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0 STATUS	DRAWING No. SHEET 4 OF 5	0 REV	



Emining centre-2 PROFILE



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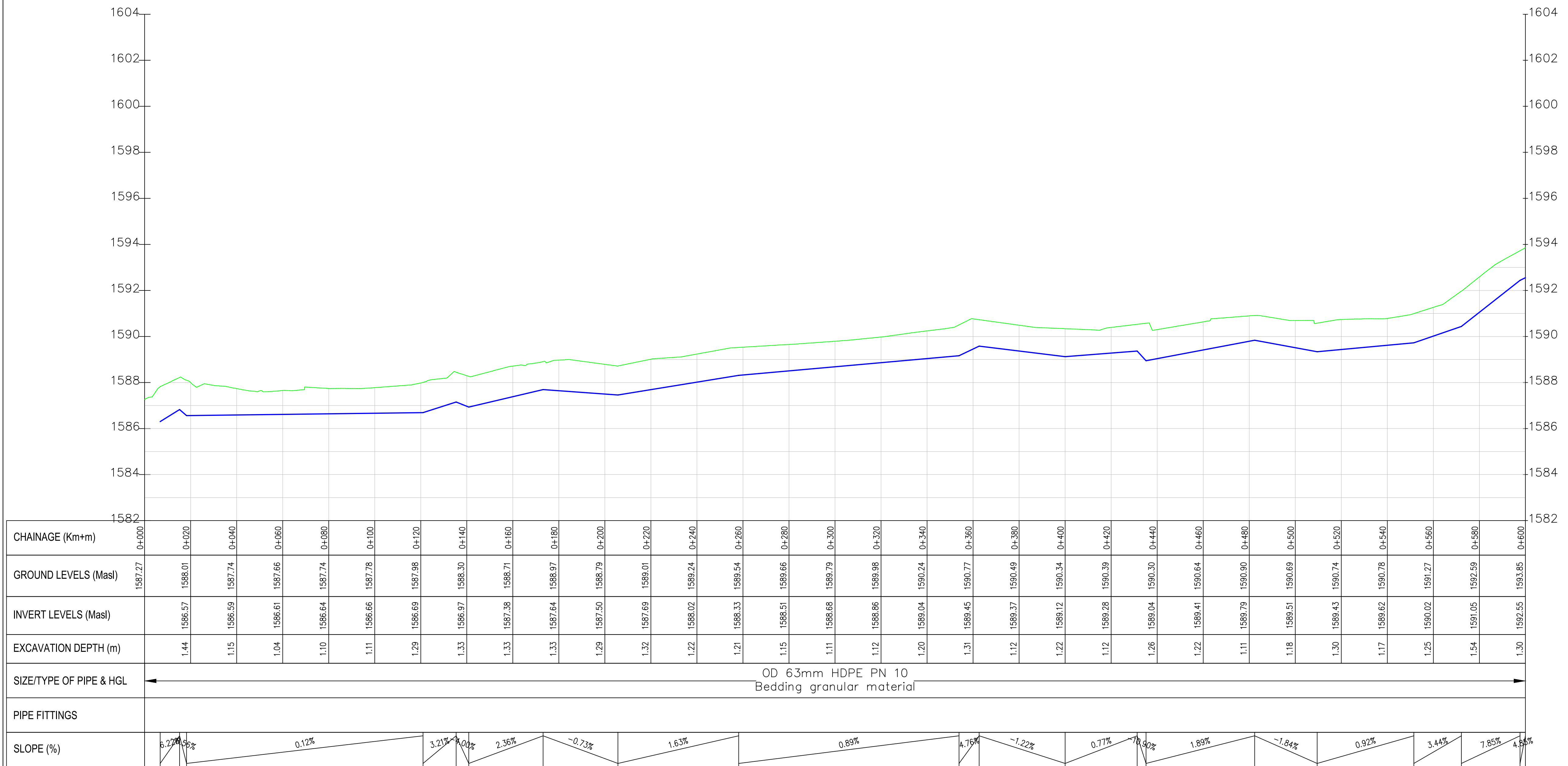
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PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
EMINING CENTRE

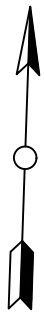
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Junction–Ebenezzer PROFILE



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		BY			
		CHECKED			



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

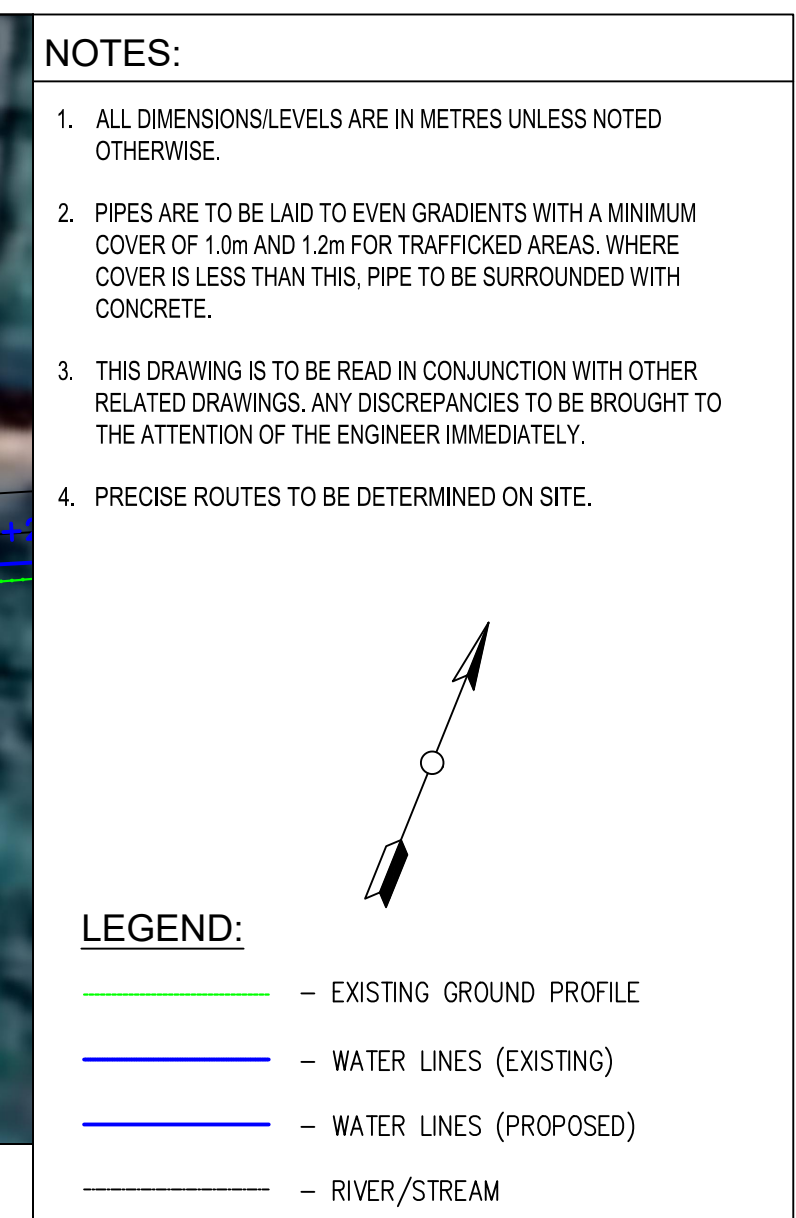
Design Consultants:

gath CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL: gath@gathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
JUNCTION EBENEZER**

Designed by	CWN	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 5	0 REV	



PRELIMINARY ISSUE

Signed: Team Leader

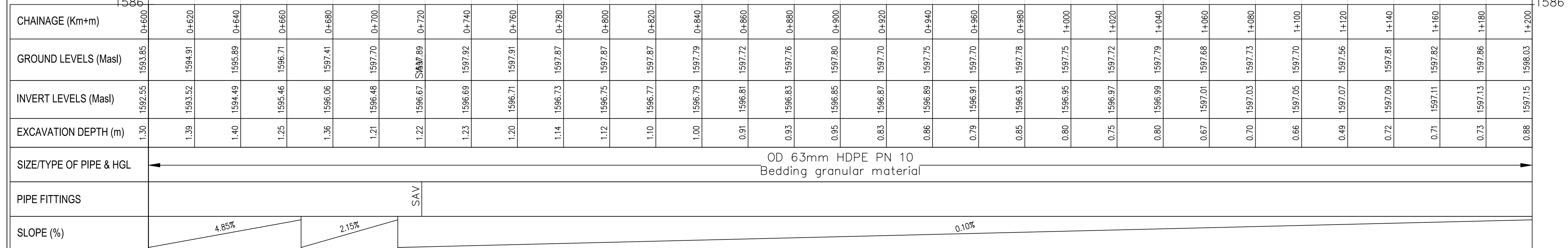
Client:



WaterFund
Financing the Water Sector

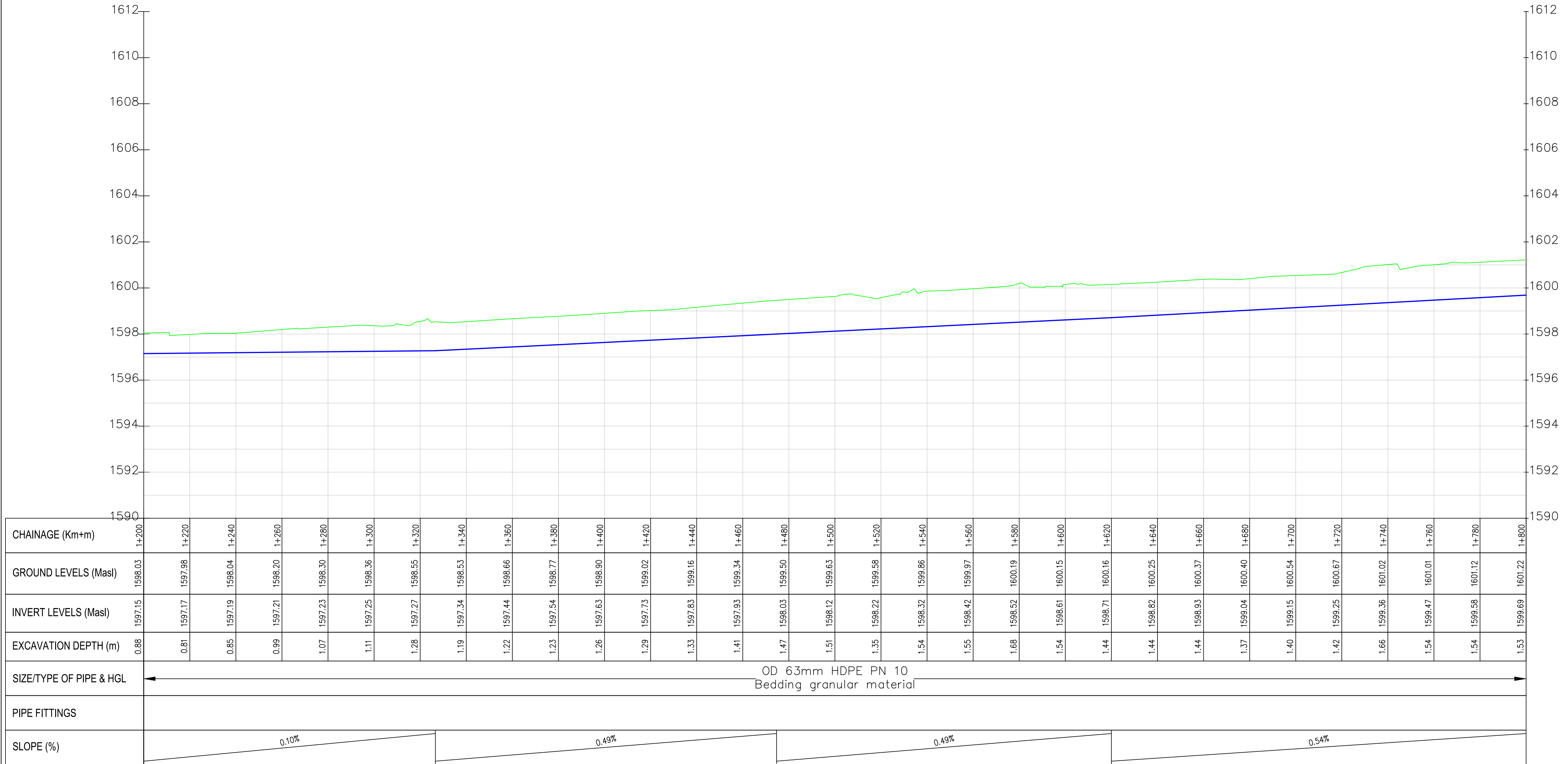
Project:	SAOS - UPPER EMINING WATER SUPPLY PROJECT UNDER EDE-CPIRA PROGRAMME IN BARINGO COUNTY
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Drawing Title:			
PROPOSED SAOS-EMINING WATER LINES PLAN AND PROFILE JUNCTION EBENEZER			
Designed by		CWM	Drawn by
Checked by		EB0	SMN
Approved by		KMM	
Scale		H = 11,000 V = 1100	Date
		November 2023	
Job No.		WSTF/23	ACAD File: Saos
0 STATUS	DRAWING No.		SHEET 2 OF 5
			0 REV





Junction–Ebenezzar PROFILE



- NOTES:
1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 2. PIPES ARE TO BE LAID TO EVEN GRADIENTS WITH A MINIMUM COVER OF 1.0m AND 1.2m FOR TRAFFICKED AREAS. WHERE COVER IS LESS THAN THIS, PIPE TO BE SURROUNDED WITH CONCRETE.
 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELATED DRAWINGS, ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
 4. PRECISE ROUTES TO BE DETERMINED ON SITE.

LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, 00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

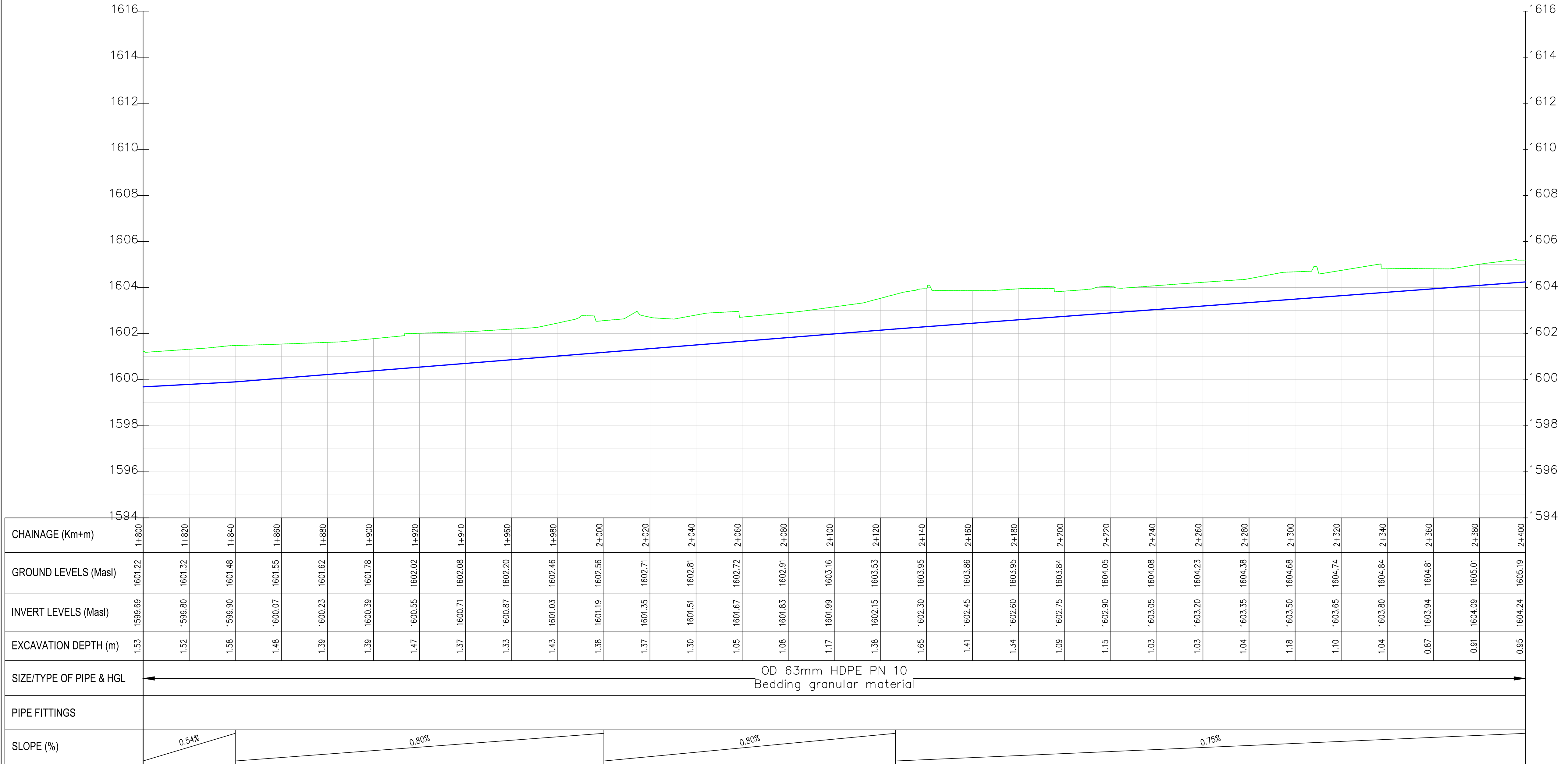
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
JUNCTION EBENEZER**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	CWM	ACAD File:	Saos
0 STATUS	DRAWING NO.	SHEET 3 OF 5	0 REV



Junction–Ebenezzer PROFILE



NOTES:

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LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
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	CHECKED			

Client:

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
W.A.Y.,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
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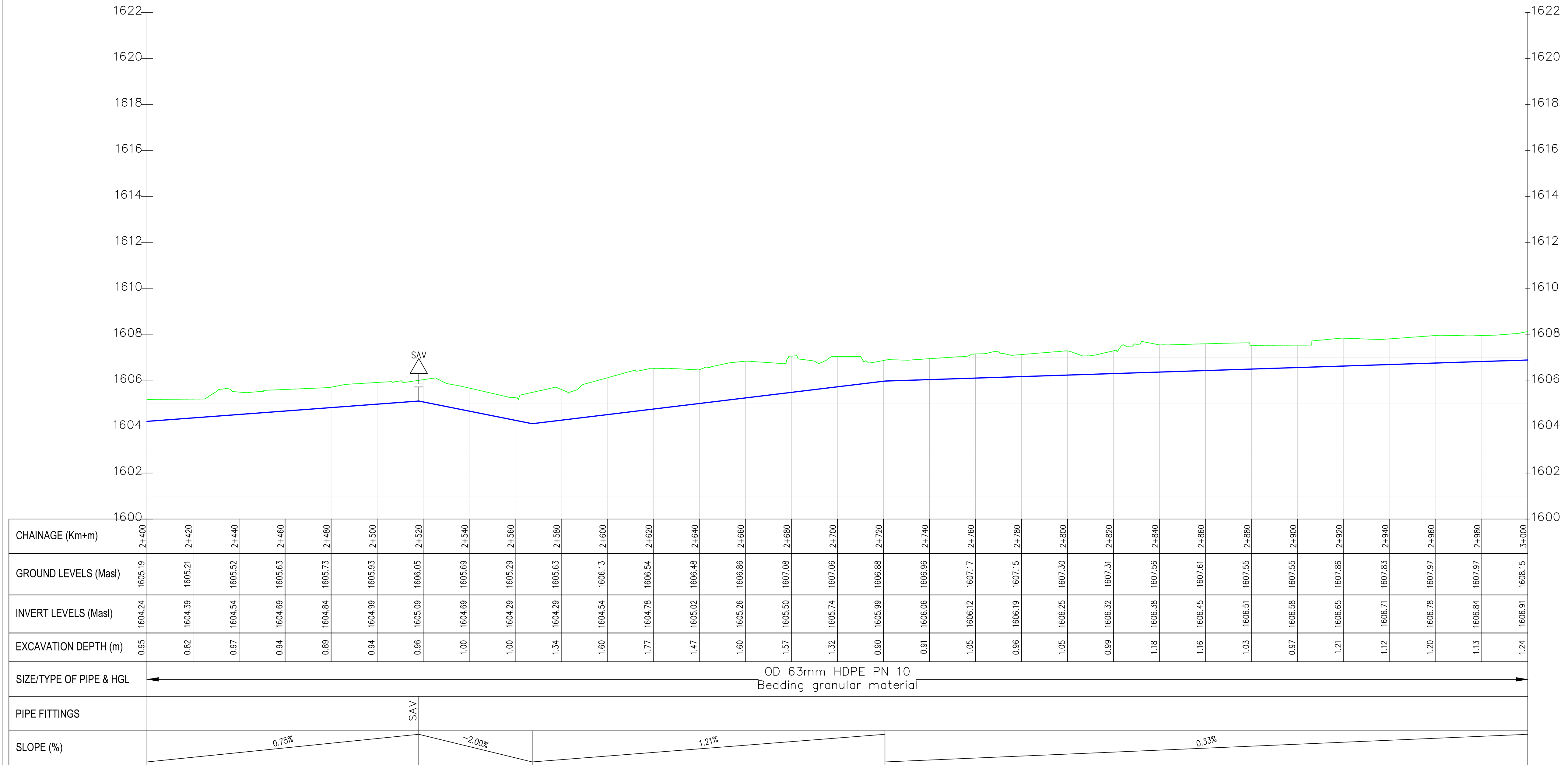
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
JUNCTION EBENEZER**

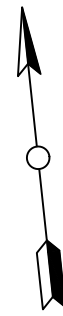
Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING No. SHEET 4 OF 5		0 REV



Junction-Ebenezer PROFILE



- NOTES:
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- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
		BY			
		CHECKED			
		BY			
		CHECKED			
		BY			
		CHECKED			
		BY			
		CHECKED			



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, 00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL: gce@gathkenya.com

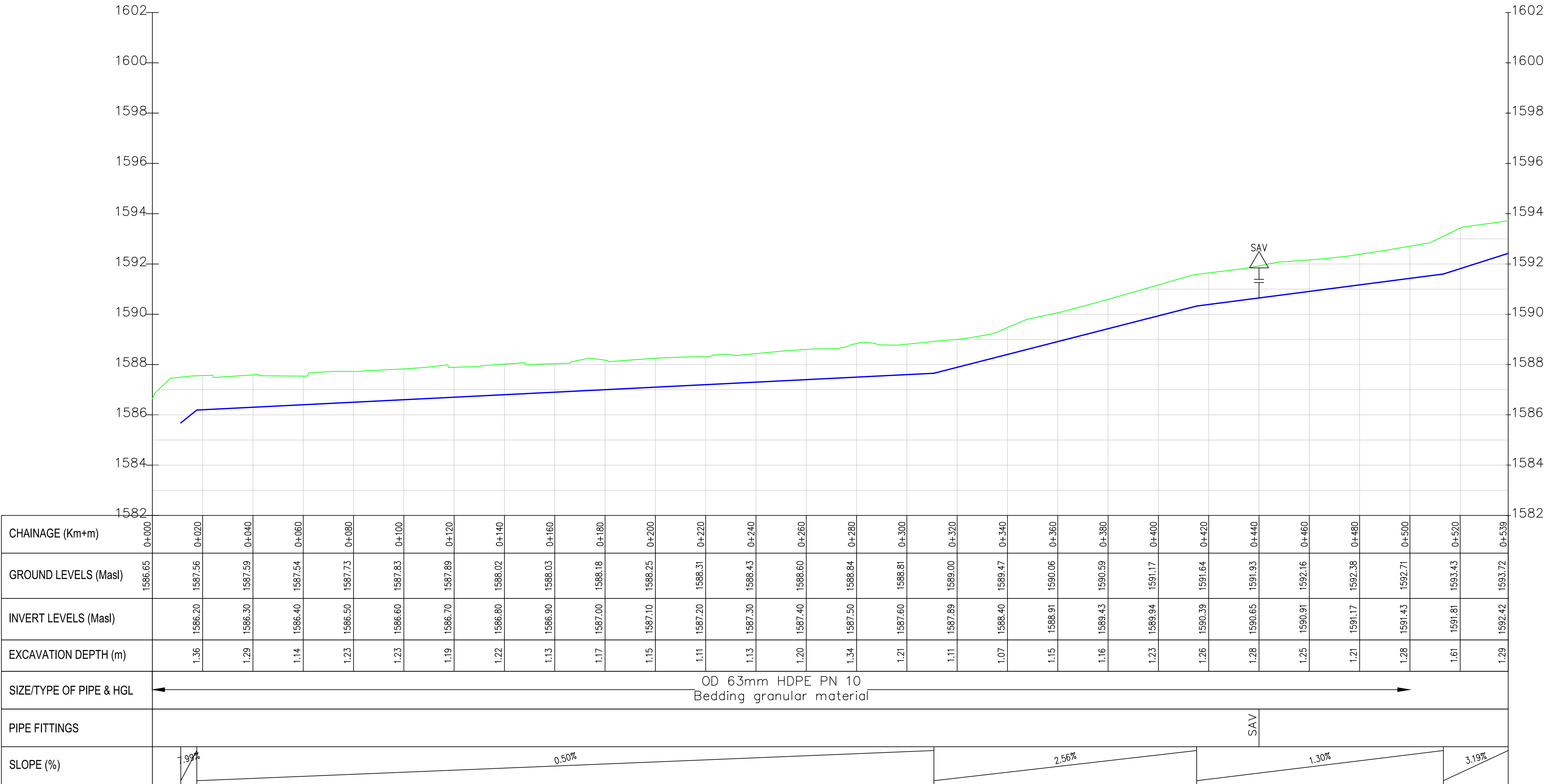
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
JUNCTION EBENEZER**

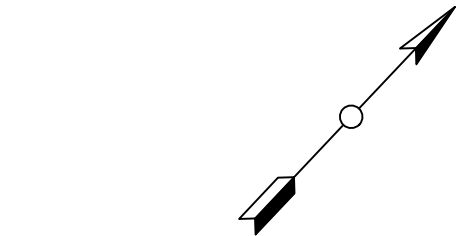
Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	December 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 5 OF 5		0 REV



Emining area PROFILE



- NOTES:
1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
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- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			

Client:

Financier:

Project:
**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
EMINING AREA**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 1	0 REV	



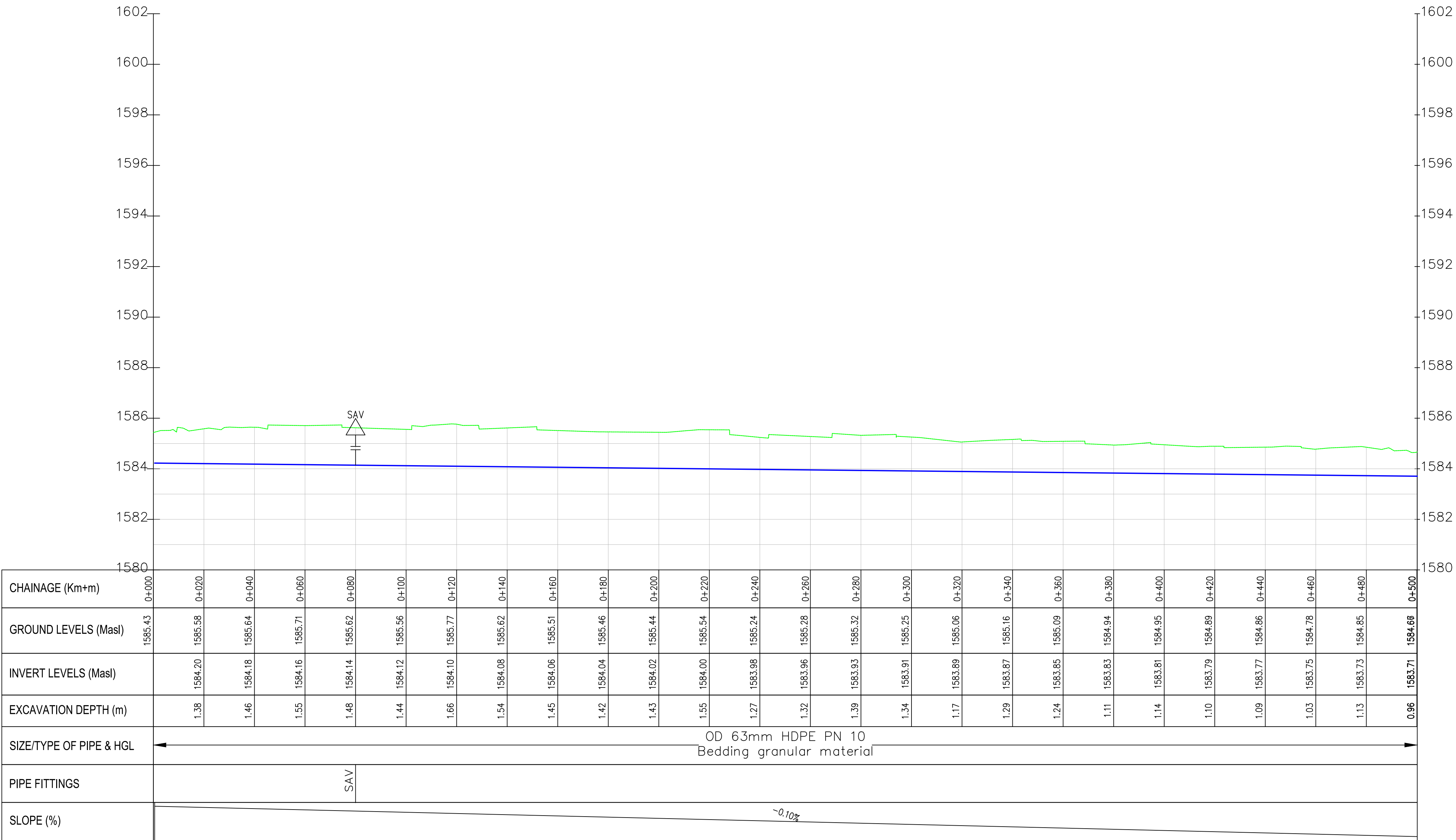
NOTES:

1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
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LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

Chepchomus distribution PROFILE



PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
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KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

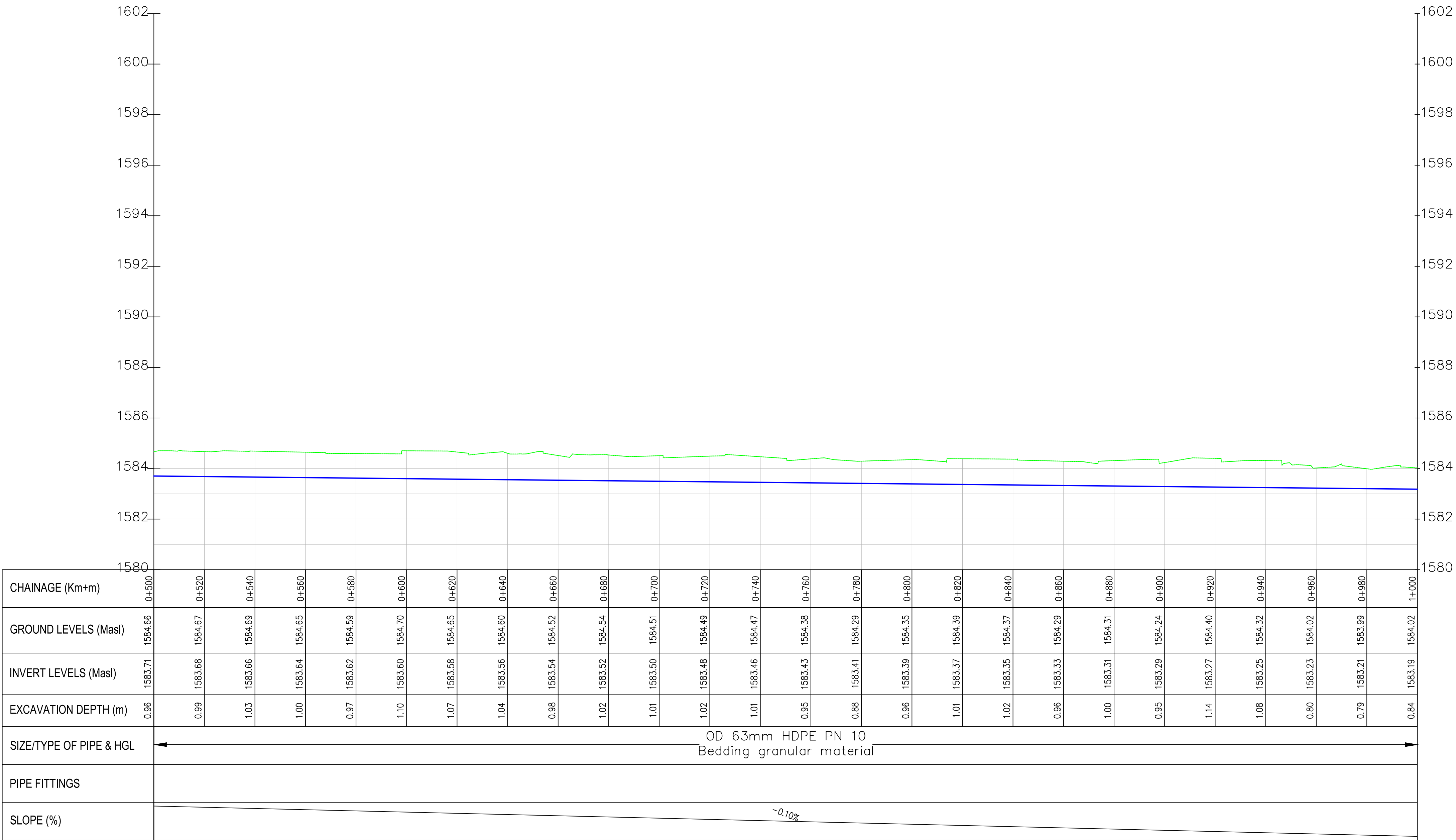
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
CHEPCHOMUS**

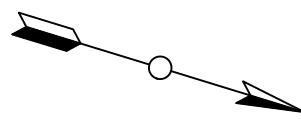
Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 3		0 REV



Chepchomus distribution PROFILE



- NOTES:
1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
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- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			

Client:

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL: gce@gathkenya.com

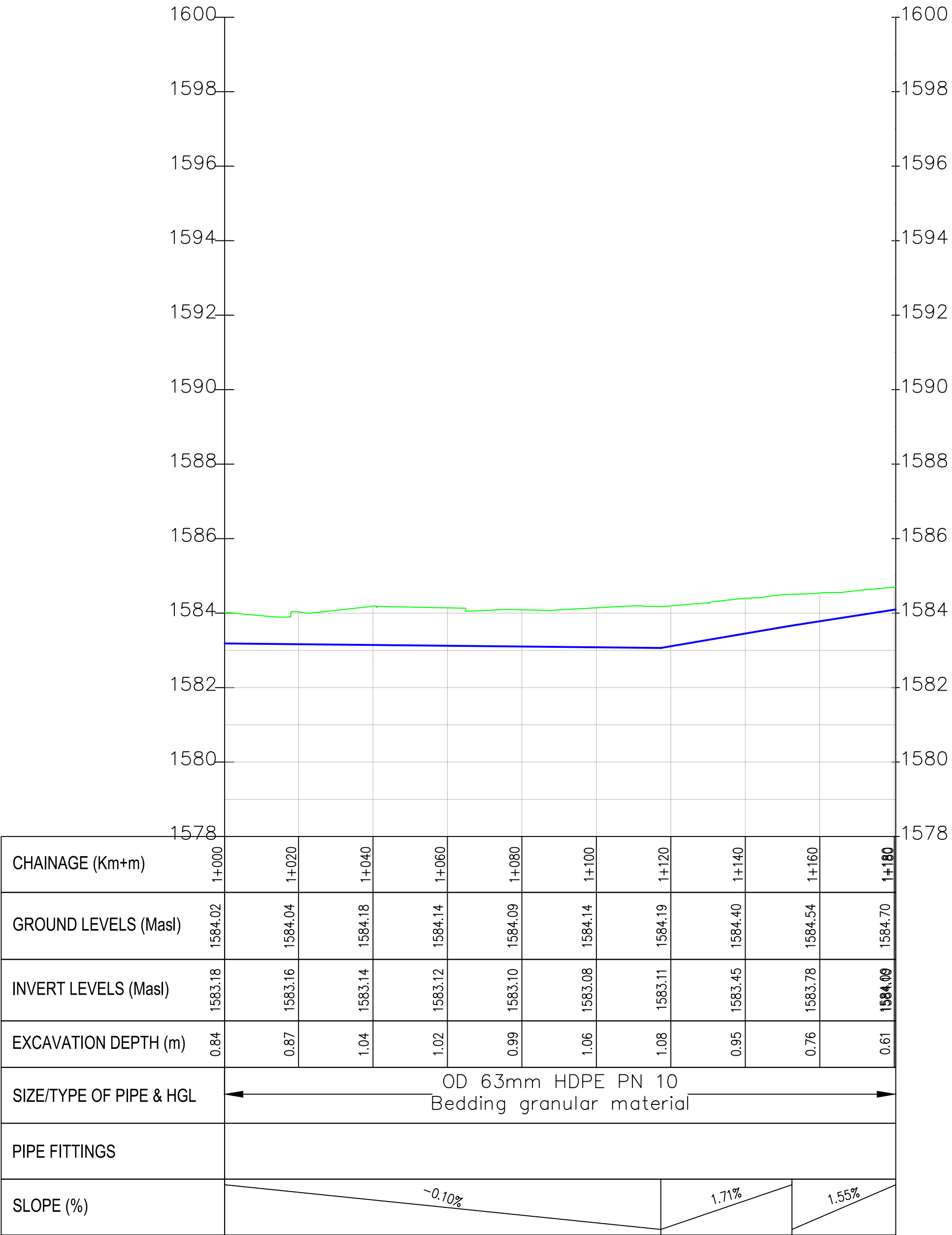
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
CHEPCHOMUS**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING No. SHEET 2 OF 3		0 REV



Chepchomus distribution PROFILE



NOTES:

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- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
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	BY			
	CHECKED			
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	CHECKED			

Client:

Financier:

Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
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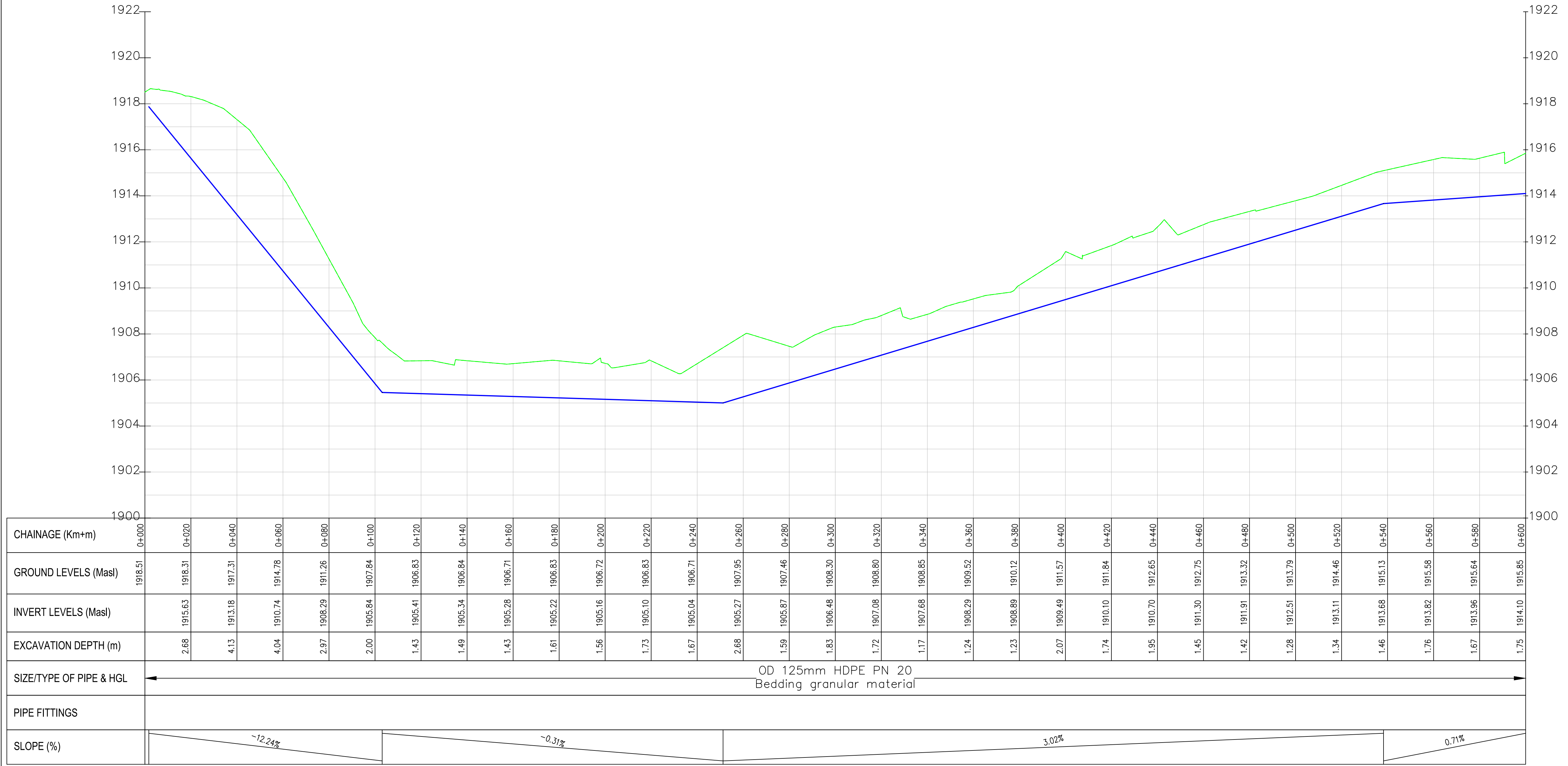
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
CHEPCHOMUS

Designed by	CWM	Drawn by	SMN	
Checked by	EB0	Approved by	KNM	
Scale	H = 1:1,000 V = 1:100	Date	November 2023	
Job No.	WSTF/23	ACAD File:	Saos	
0 STATUS	DRAWING No. SHEET 3 OF 3			0 REV



K-Saos PROFILE



CHAINAGE (Km+m)	0+0000+1000																														
GROUND LEVELS (Masl)	1918.511918.311917.311914.781911.261907.841906.831906.841906.711906.831905.721906.831906.711907.951907.461906.301908.801907.681908.851908.521910.121911.571911.841912.651912.751913.321913.791914.461915.131915.581915.641915.850+600																														
INVERT LEVELS (Masl)	1915.631913.181910.741908.291905.841905.411905.341905.281905.221905.161905.101905.041905.271905.871906.481907.081907.681908.291908.891909.491910.101910.701911.301911.911912.511913.111913.681913.821913.961914.10																														
EXCAVATION DEPTH (m)	2.684.134.042.972.001.431.491.431.611.561.731.672.681.591.831.721.171.241.232.071.741.951.451.421.281.341.461.761.671.75																														
SIZE/TYPE OF PIPE & HGL	OD 125mm HDPE PN 20 Bedding granular material																														
PIPE FITTINGS																															
SLOPE (%)	-12.24% -0.31% 3.02% 0.71%																														

- NOTES:
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LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

Financier:

Project:
**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
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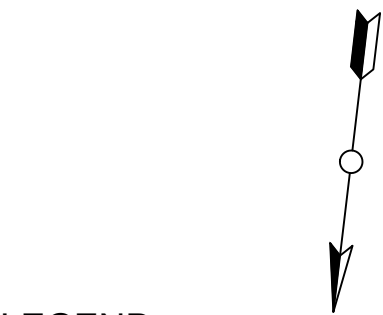
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPTANA SAOS**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 11	0 REV	



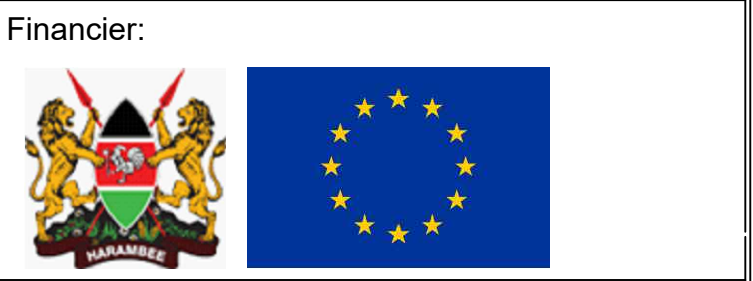
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- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

gath CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPTANA SAOS

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING No. SHEET 2 OF 11		
			0 REV



NOTES:

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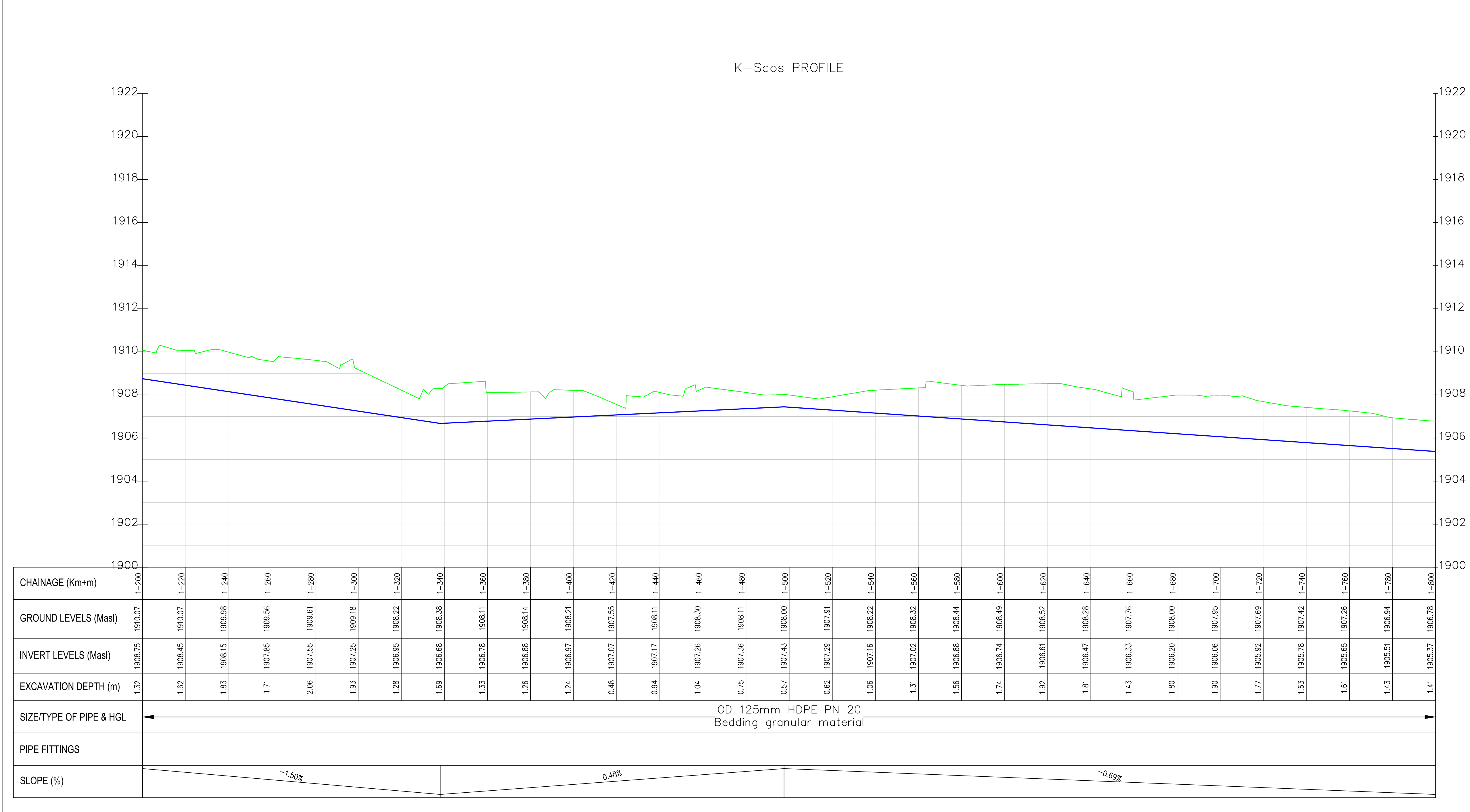
LEGEND:

- EXISTING GROUND PROFILE

- WATER LINES (EXISTING)

- WATER LINES (PROPOSED)

- RIVER/STREAM



PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:



WaterFund

Financing the Water Sector

Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:



GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
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KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPTANA SAOS

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos

0

STATUS

DRAWING NO. SHEET 3 OF 11

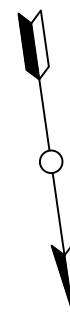
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REV



NOTES:

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4. PRECISE ROUTES TO BE DETERMINED ON SITE.



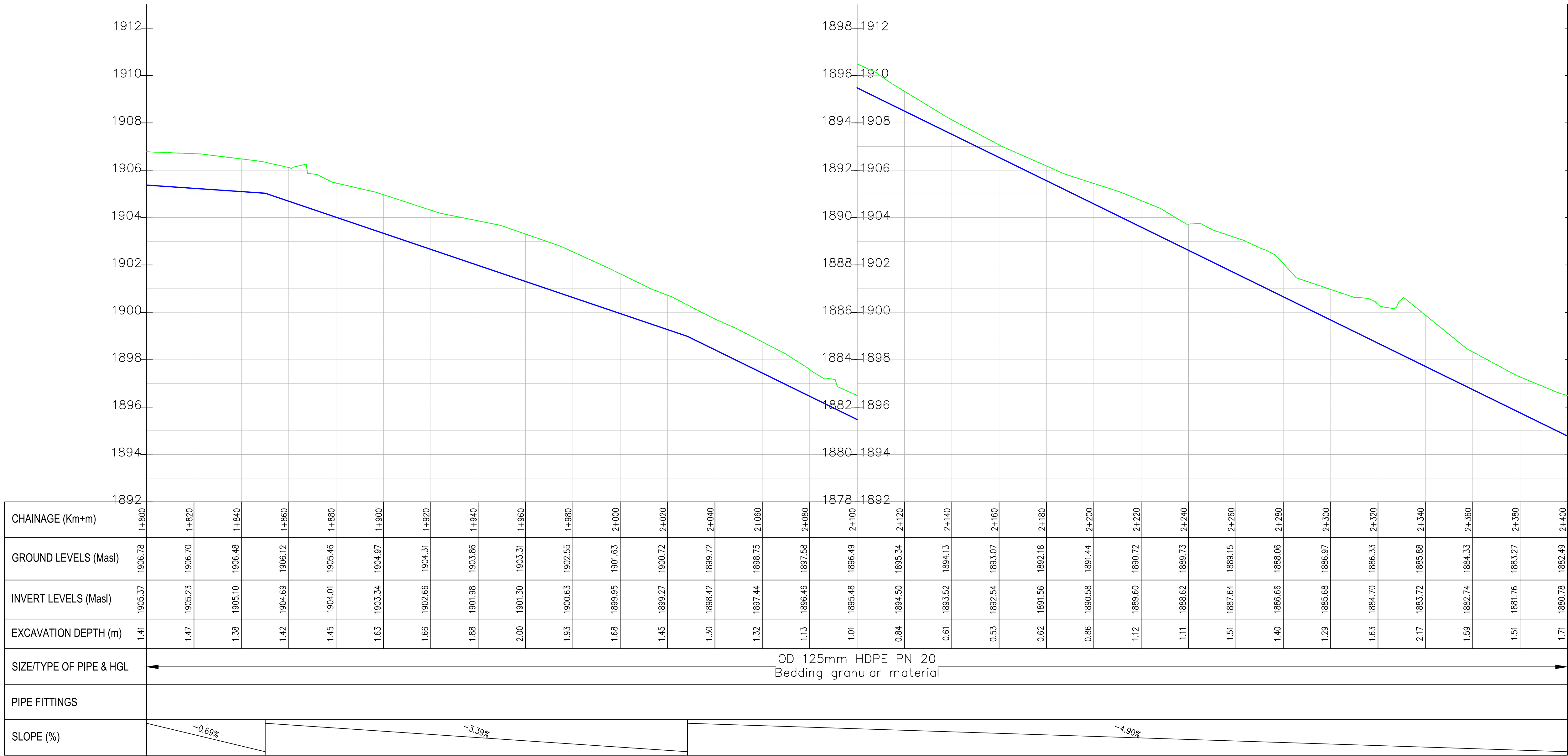
LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

K-Saos PROFILE

K-Saos PROFILE

K-Saos PROFILE



PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:



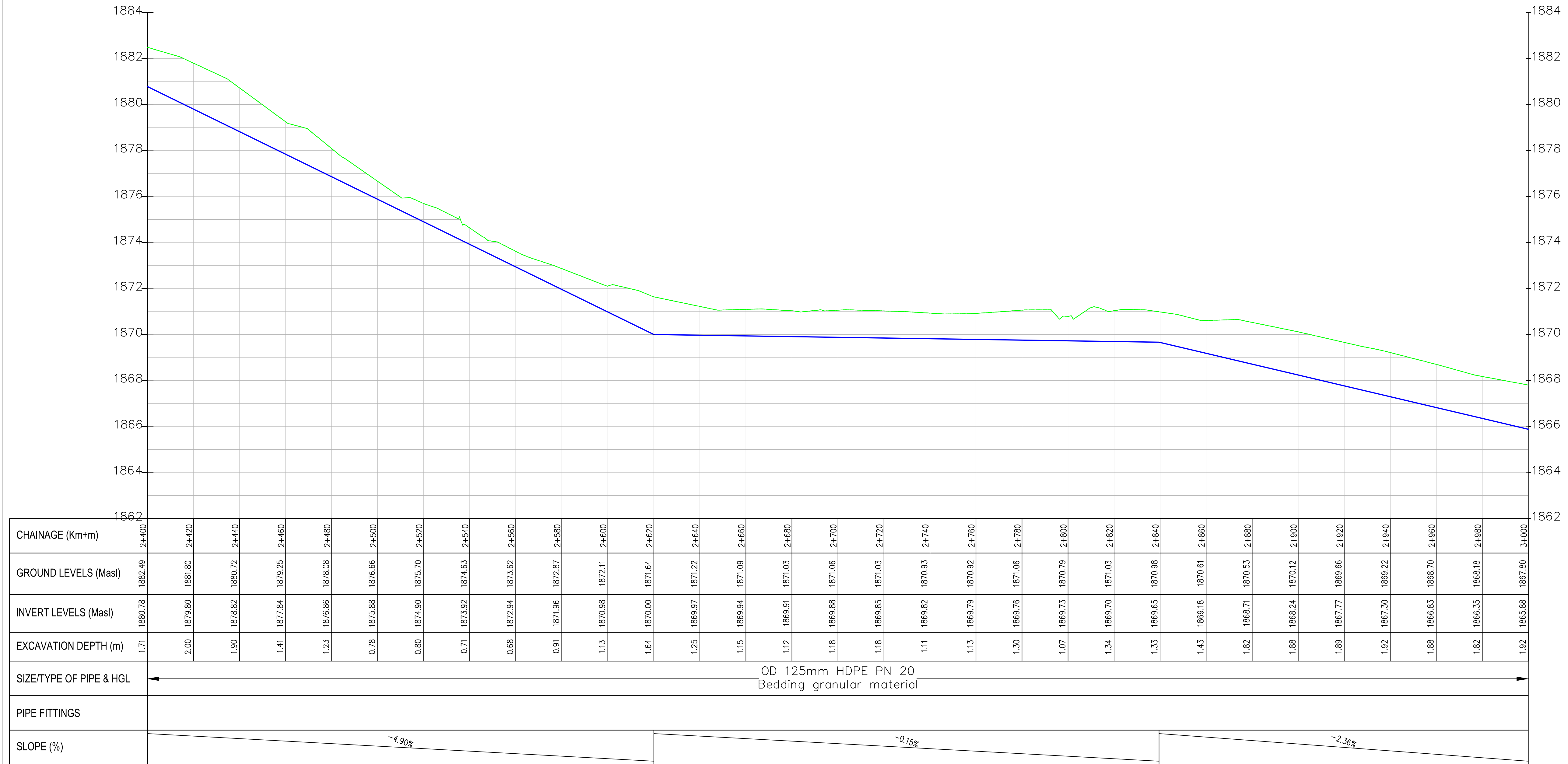
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PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPTANA SAOS

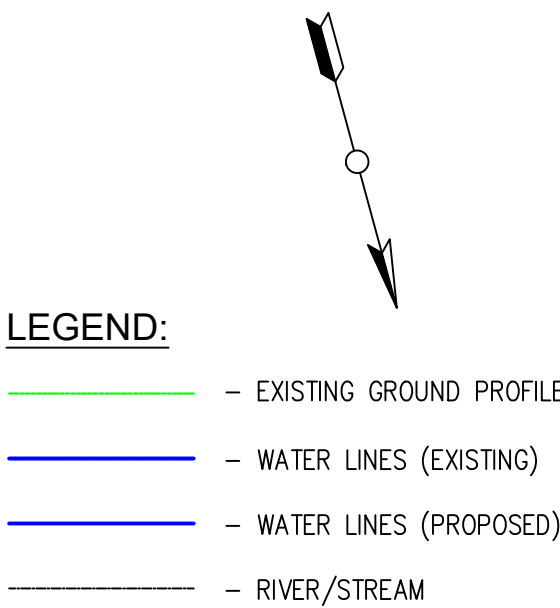
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Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 4 OF 11	0 REV	



K-Saos PROFILE



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PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
		BY			
		CHECKED			
		BY			
		CHECKED			
		BY			
		CHECKED			
		BY			
		CHECKED			



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, 00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL: gce@gathkenya.com

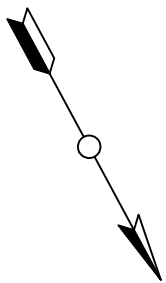
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPTANA SAOS**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 5 OF 11	0 REV	



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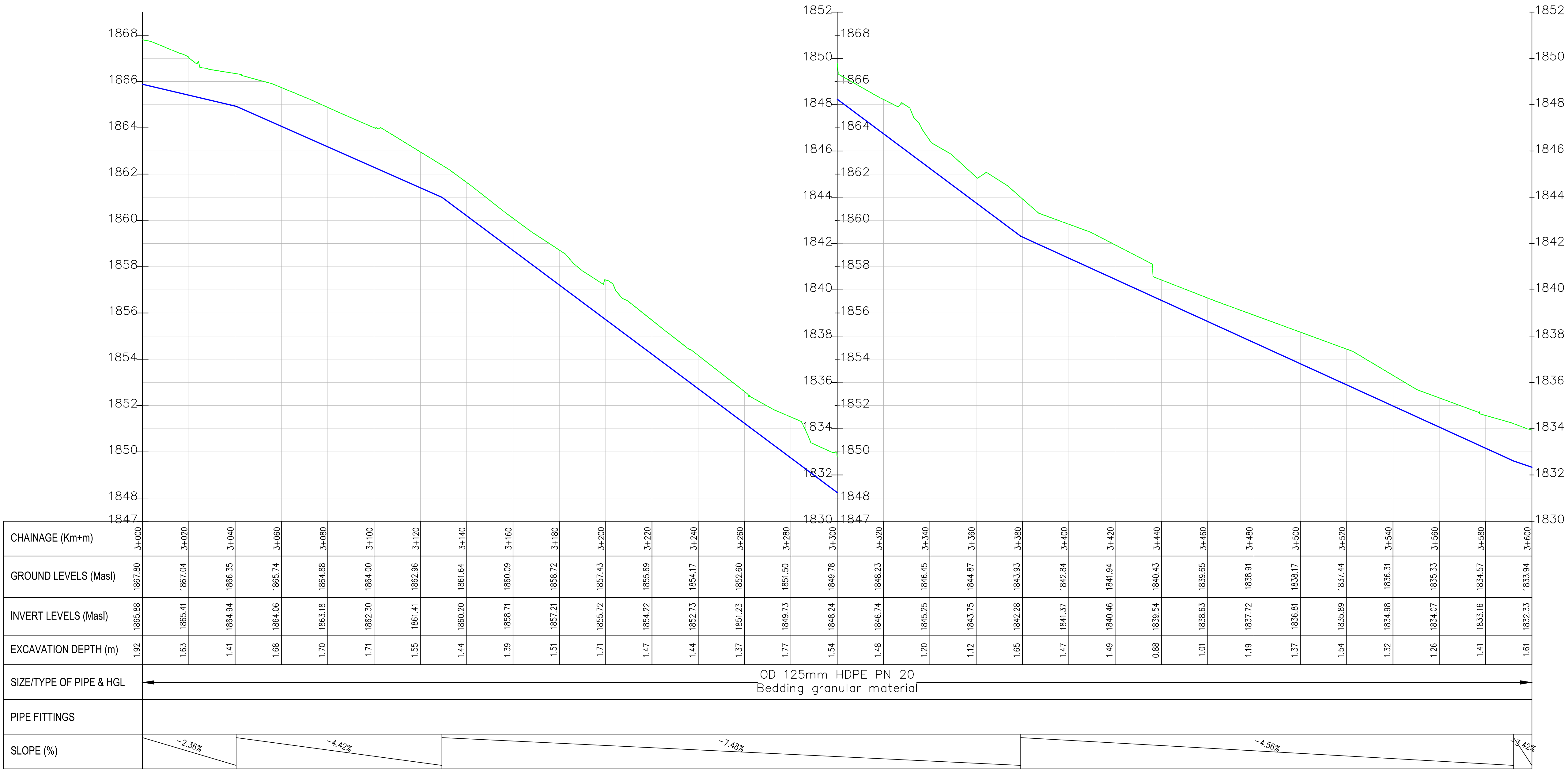


- LEGEND:**
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

K-Saos PROFILE

K-Saos PROFILE

K-Saos PROFILE



PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
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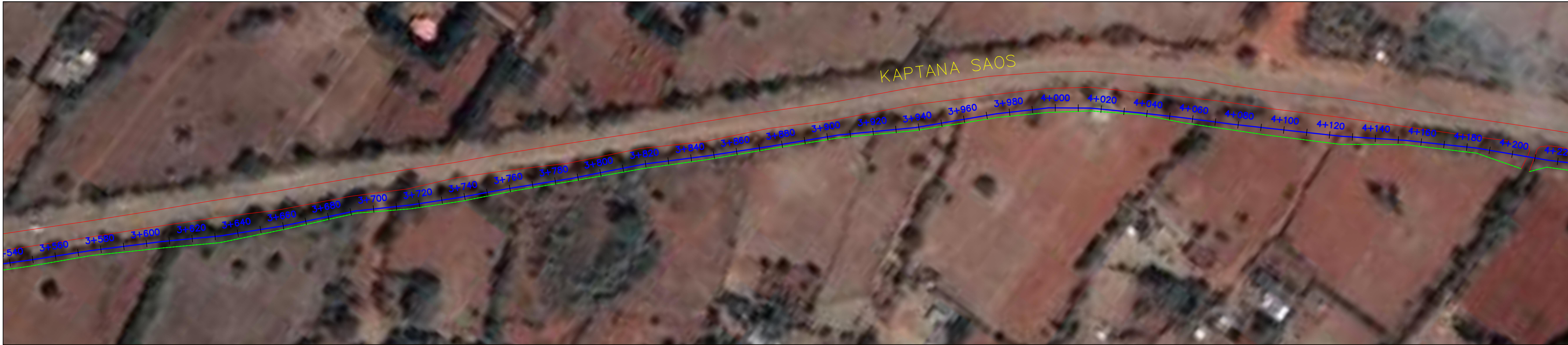
Project:
**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:
gath CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gath@kathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPTANA SAOS**

Designed by	CWM	Drawn by	SMN
Checked by	EBO	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 6 OF 11		0 REV

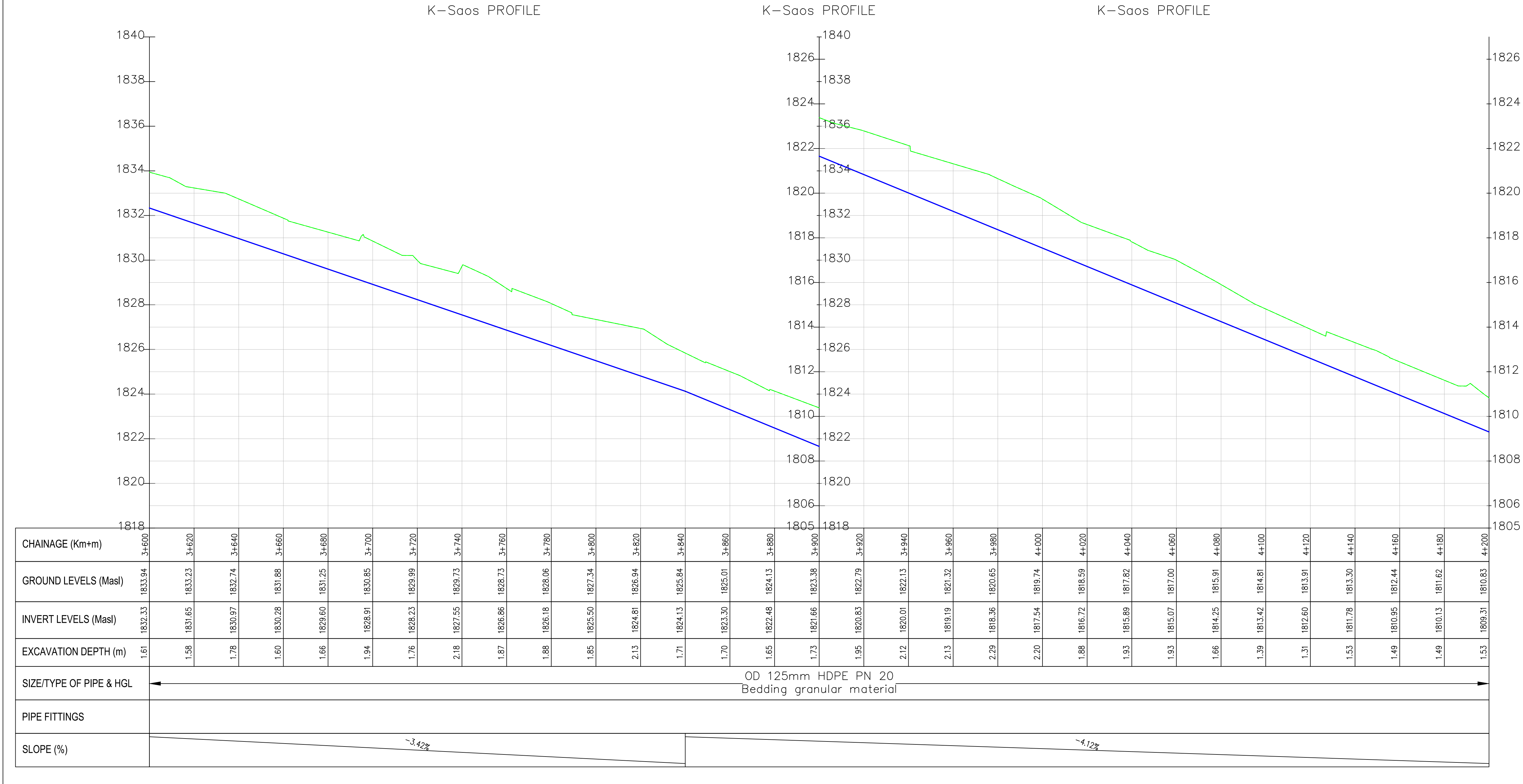


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- WATER LINES (EXISTING)
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PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath
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MUTHANGARI DRIVE/OFF WAIYAKI
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EMAIL: gath@kathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPTANA SAOS**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 7 OF 11		0 REV



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PRELIMINARY ISSUE
Signed: Team Leader

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Client:

Financing the Water Sector

Financier:


Project:
SAOS - UPPER EMINING WATER SUPPLY PROJECT UNDER EDE-CPIRA PROGRAMME IN BARINGO COUNTY

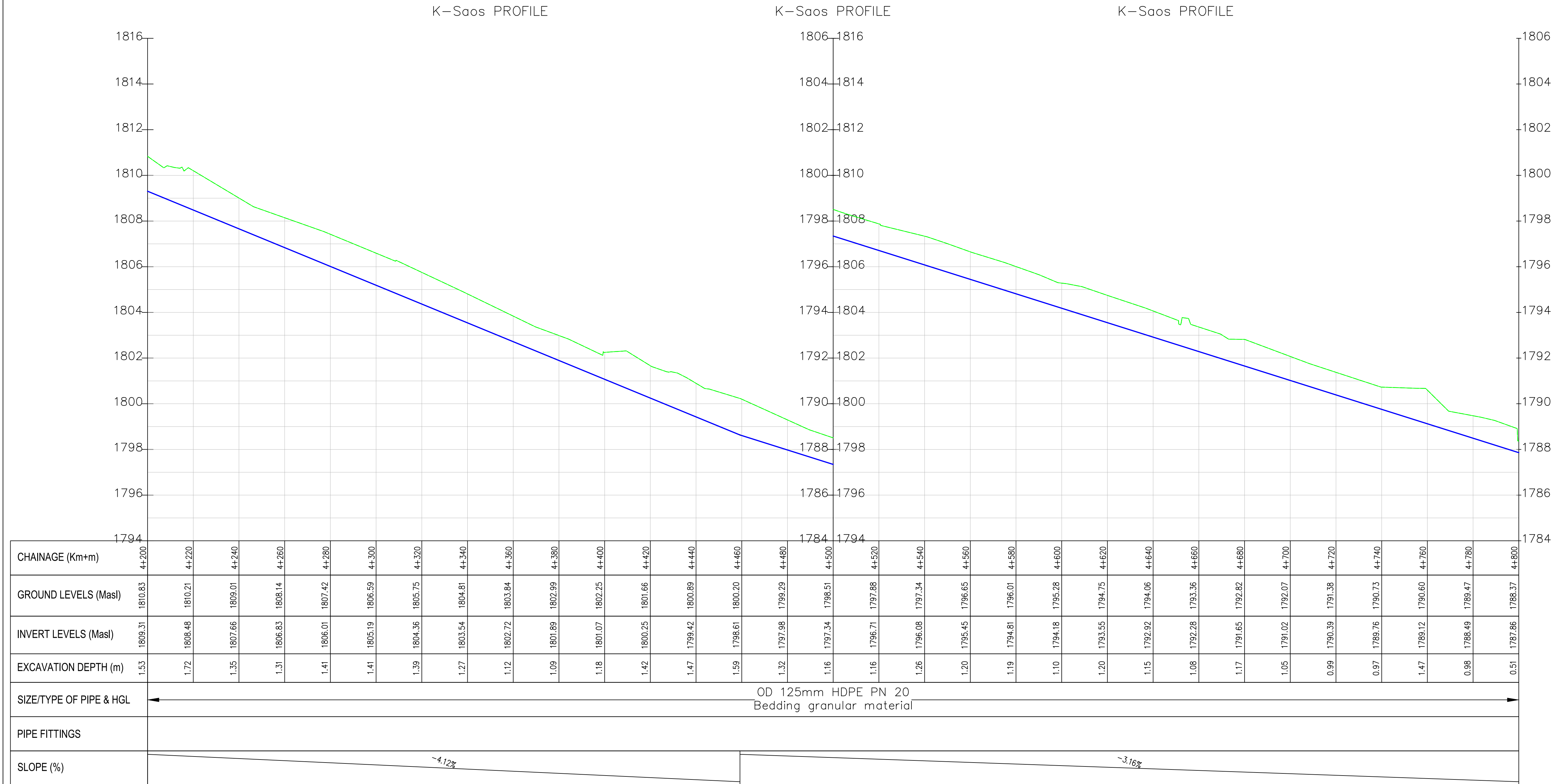
Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI WAY,
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KENYA TEL:254-020-4441473/4444837
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PROPOSED SAOS-EMINING WATER LINES PLAN AND PROFILE
KAPTANA SAOS

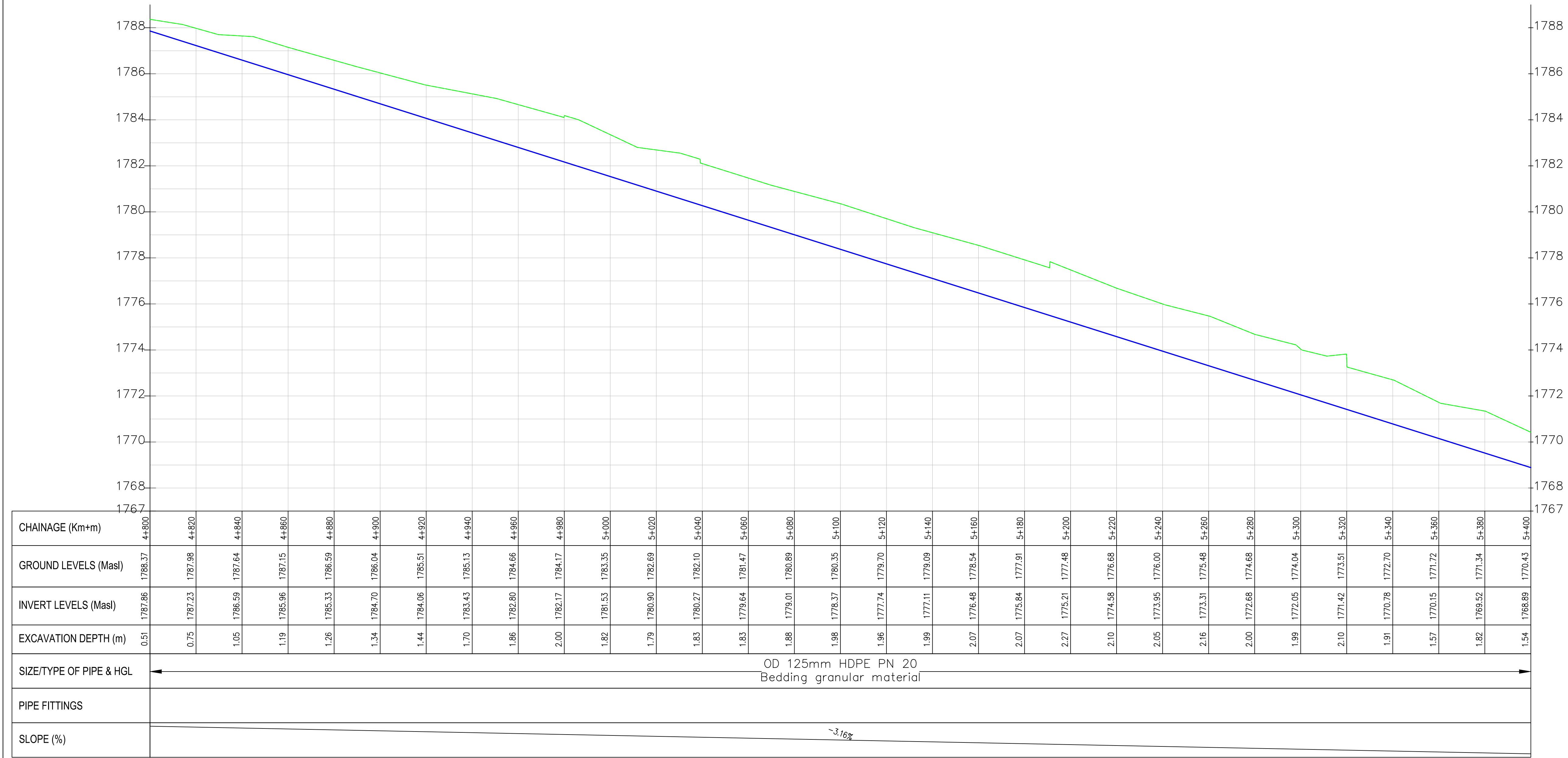
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Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos

0 STATUS	DRAWING NO. SHEET 8 OF 11	0 REV
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K–Saos PROFILE



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PRELIMINARY ISSUE

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Client:

WaterFund
Financing the Water Sector

Financier:



Project:

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UNDER EDE-CPIRA
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Design Consultants:

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Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPTANA SAOS**

Designed by	CWM	Drawn by	SMN
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0 STATUS	DRAWING NO. SHEET 9 OF 11		0 REV



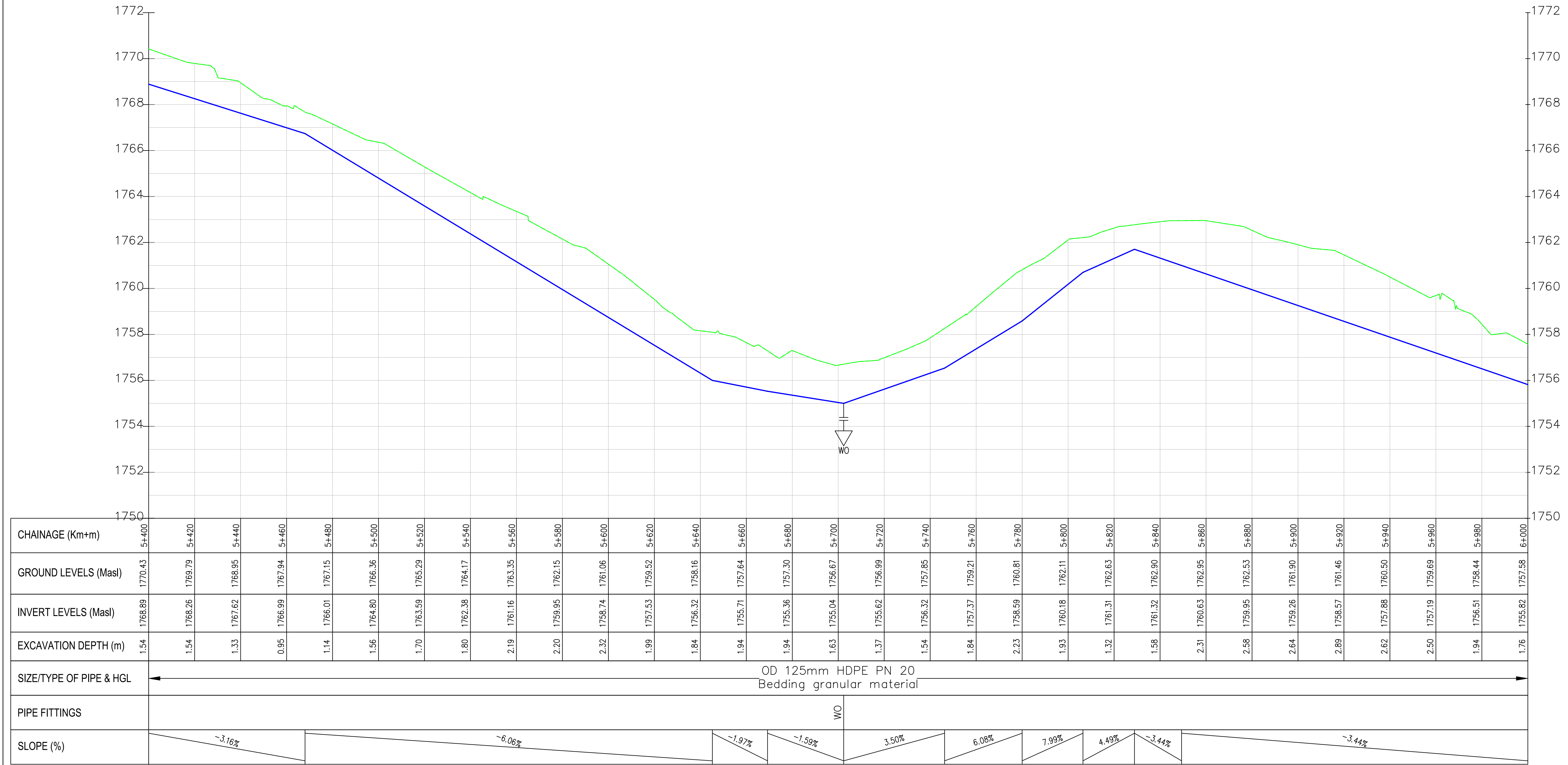
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K-Saos PROFILE



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Financier:

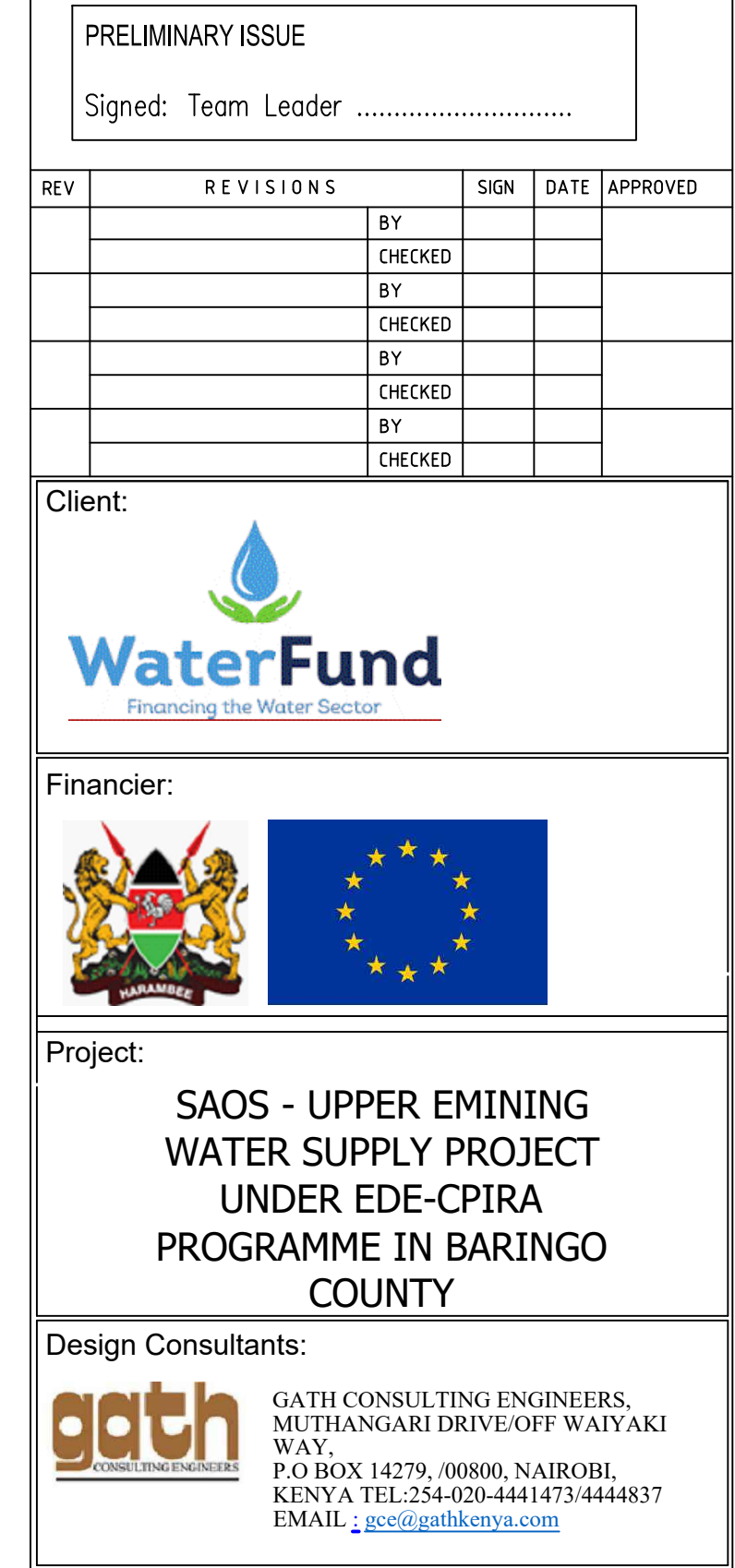
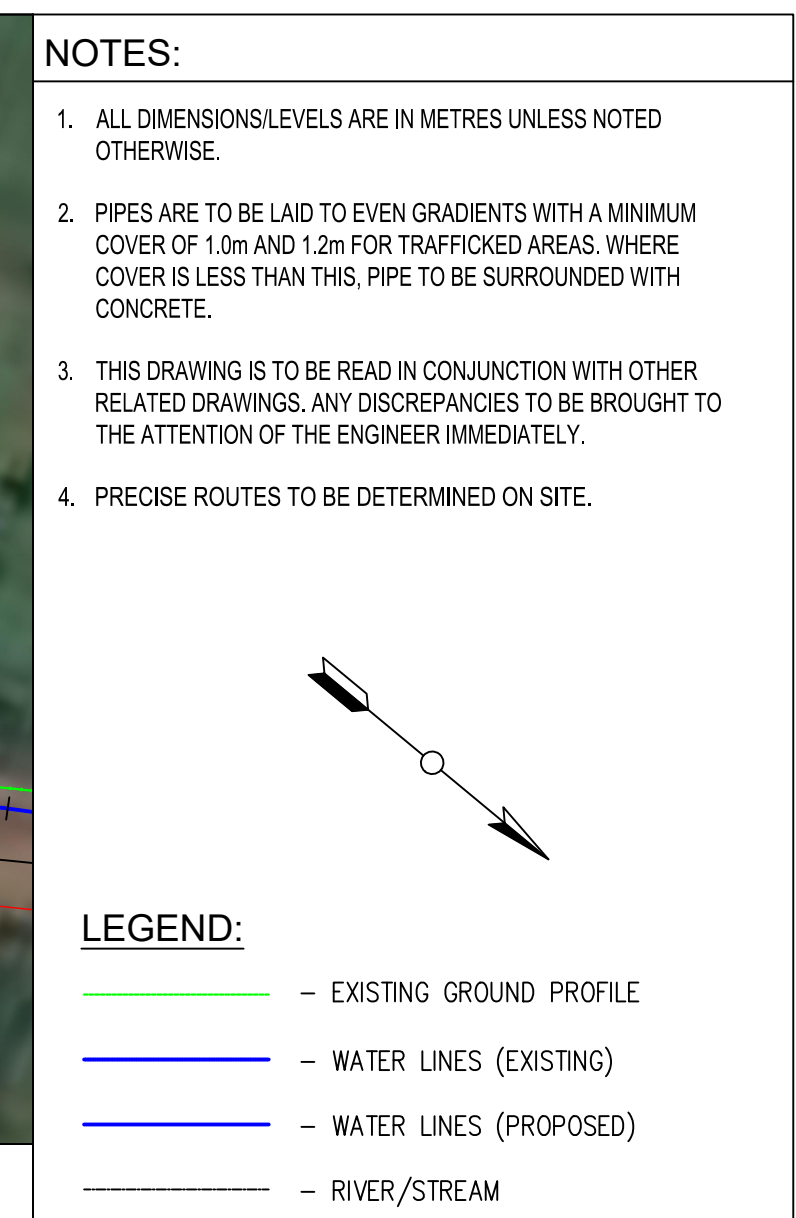

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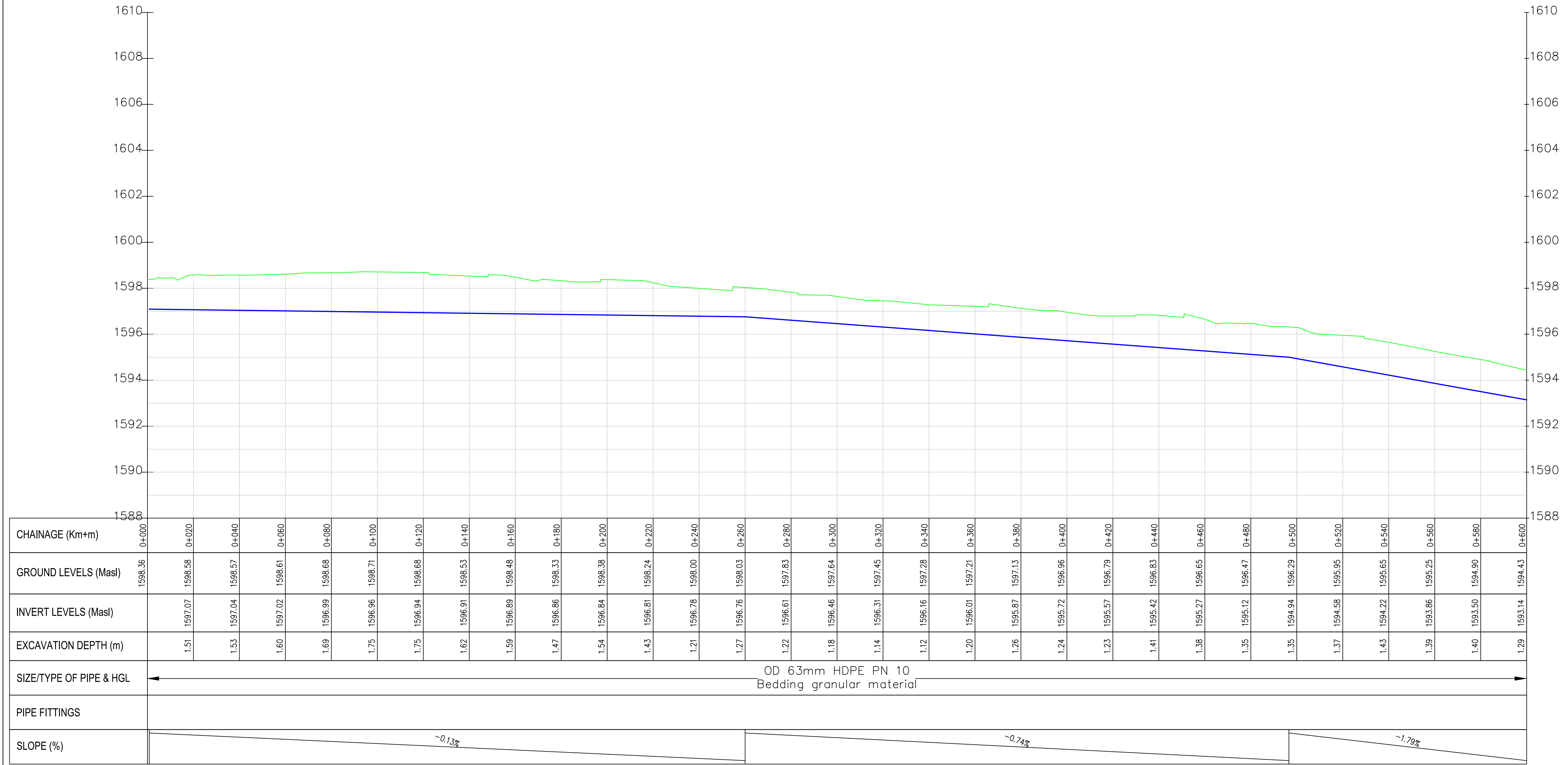
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Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 10 OF 11		0 REV



Drawing Title:			
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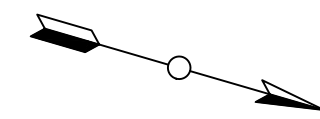


Kapcheluguny PROFILE



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 4. PRECISE ROUTES TO BE DETERMINED ON SITE.



- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
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	CHECKED			

Client:

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

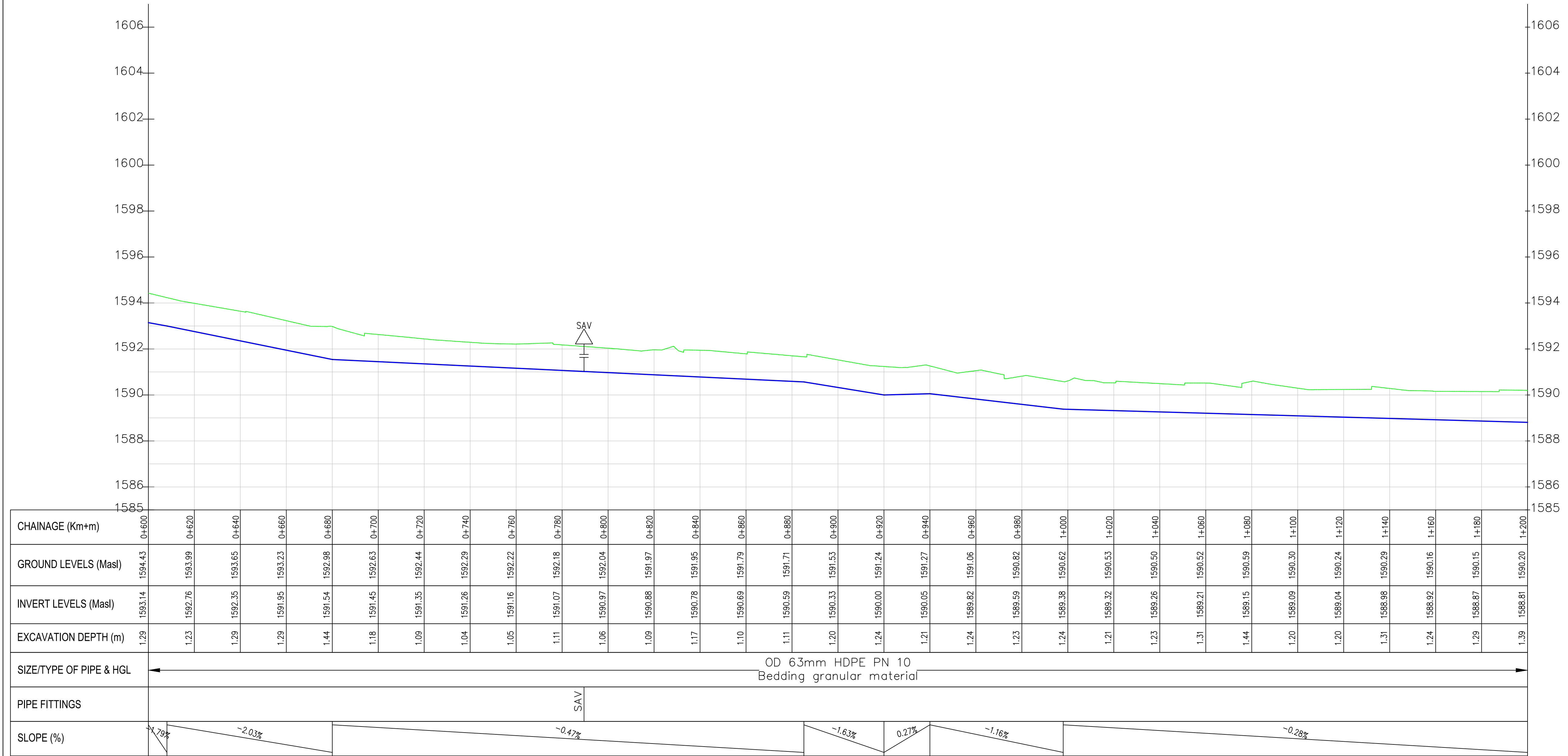
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**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPCHELUGUNY**

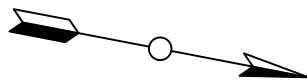
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Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 5	0 REV	



Kapcheluguny PROFILE



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PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
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		CHECKED			

Client:

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

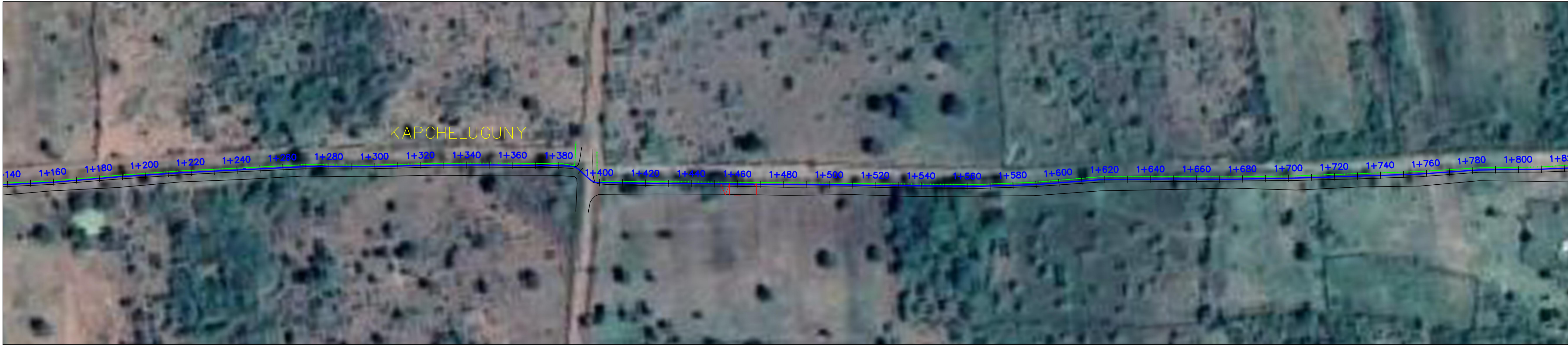
Design Consultants:

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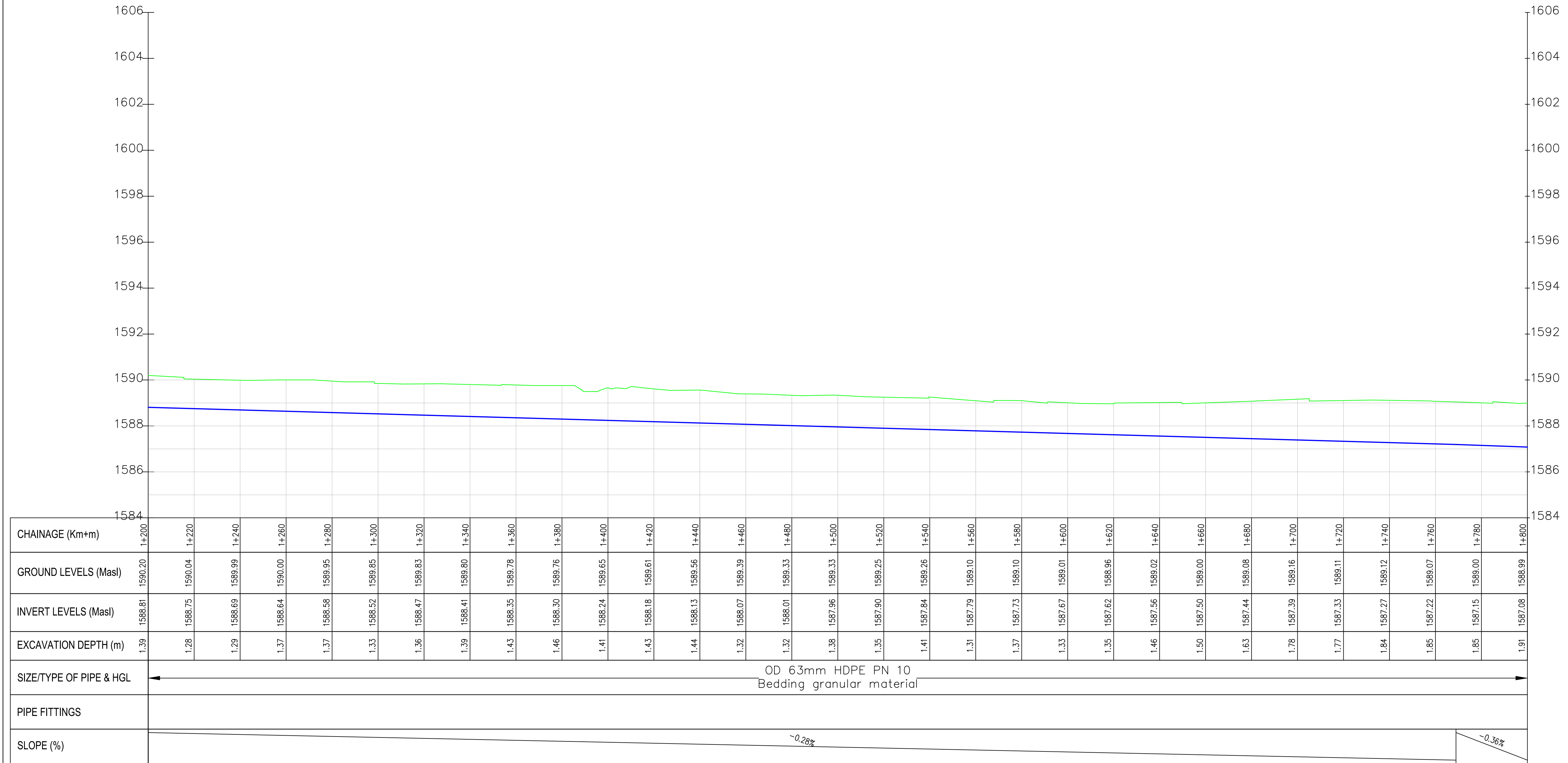
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPCHELUGUNY**

Designed by	CWM	Drawn by	SMN
Checked by	EBO	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
SMN STATUS	DRAWING No. SHEET 2 OF 5		
			0 REV

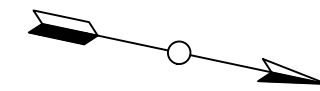


Kapcheluguny PROFILE



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Client:

Financier:

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**SAOS - UPPER EMINING
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UNDER EDE-CPIRA
PROGRAMME IN BARINGO
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Design Consultants:

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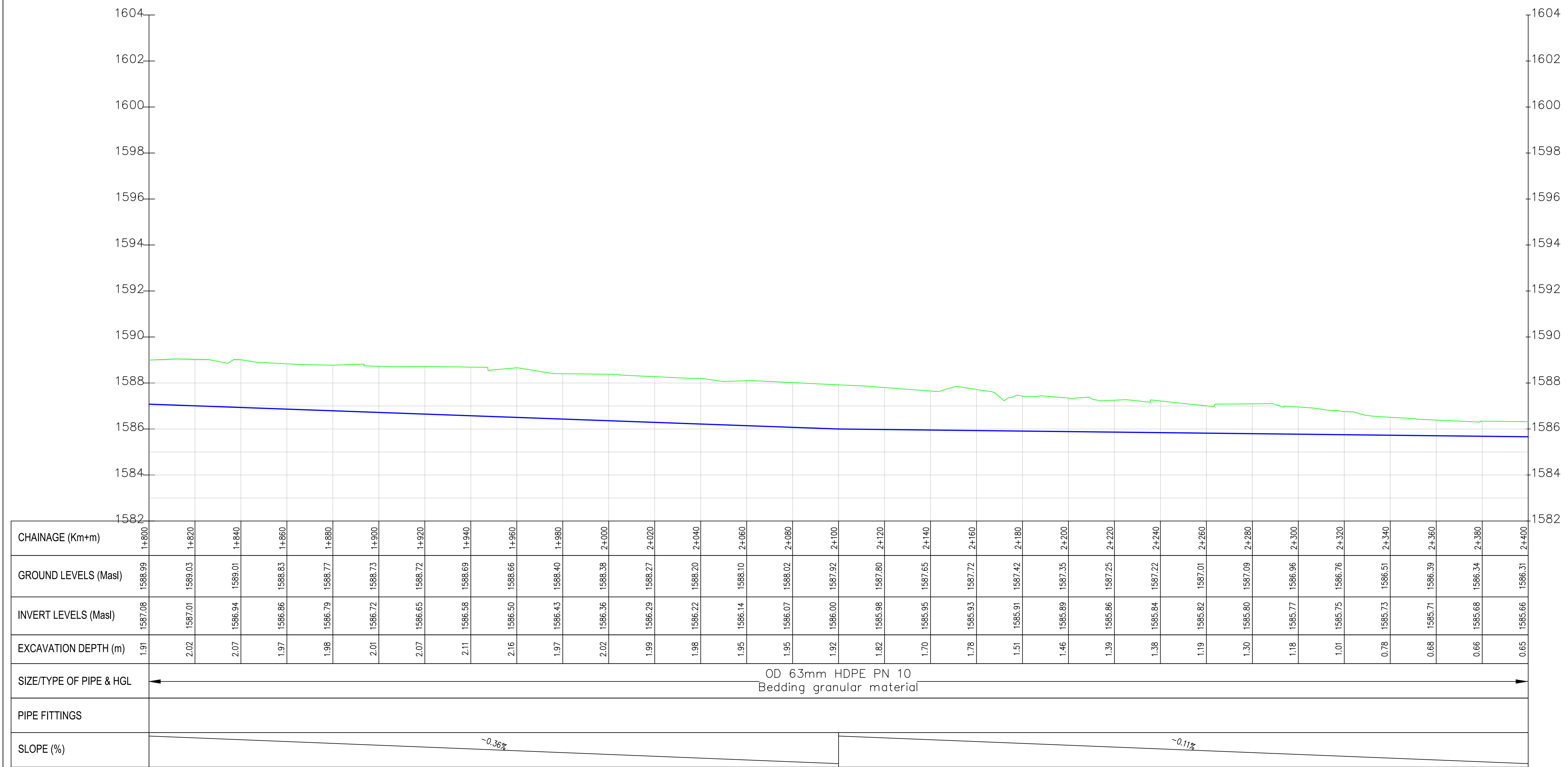
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPCHELUGUNY**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
SMN STATUS	DRAWING NO. SHEET 3 OF 5	0 REV	



Kapcheluguny PROFILE



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Signed: Team Leader

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Client:

WaterFund
Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

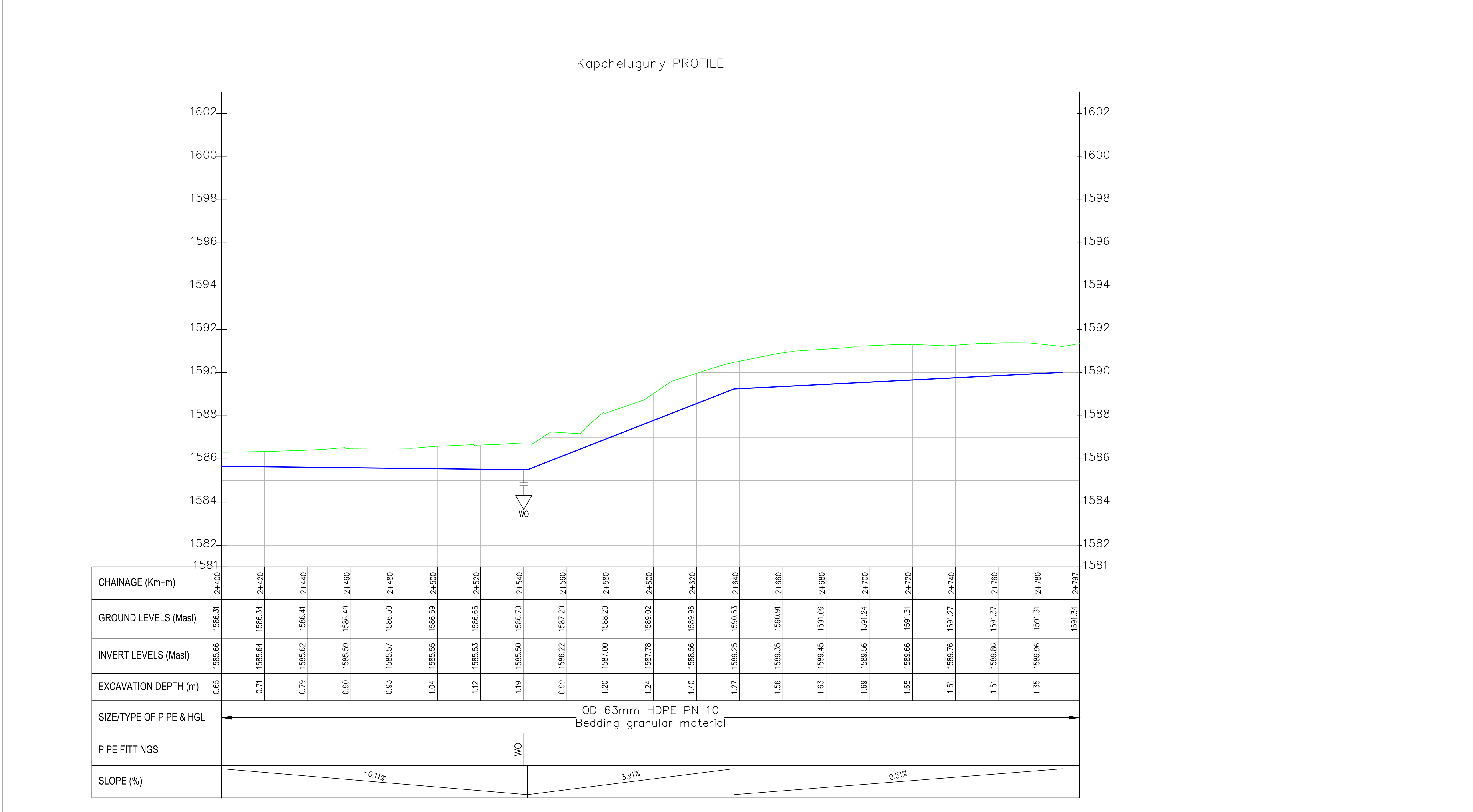
gath
CONSULTING ENGINEERS
GATH CONSULTING ENGINEERS,
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EMAIL : gce@gathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPCHELUGUNY**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos

0 STATUS	DRAWING NO. SHEET 4 OF 5	0 REV
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PRELIMINARY ISSUE

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Client:

Financier:

Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

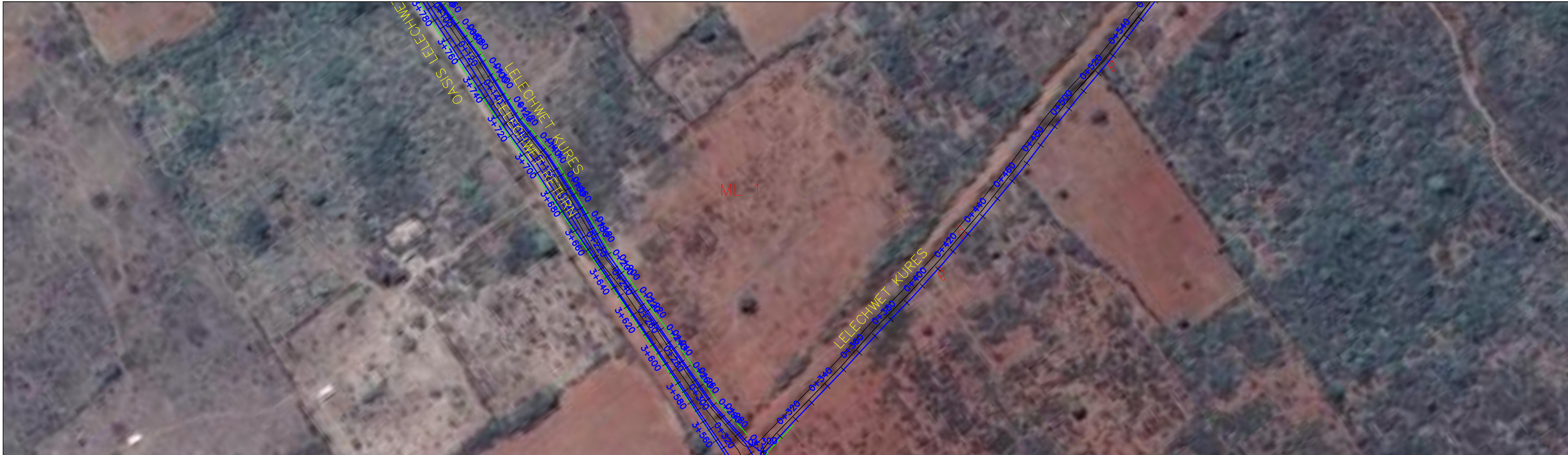
Design Consultants:

GATH CONSULTING ENGINEERS,
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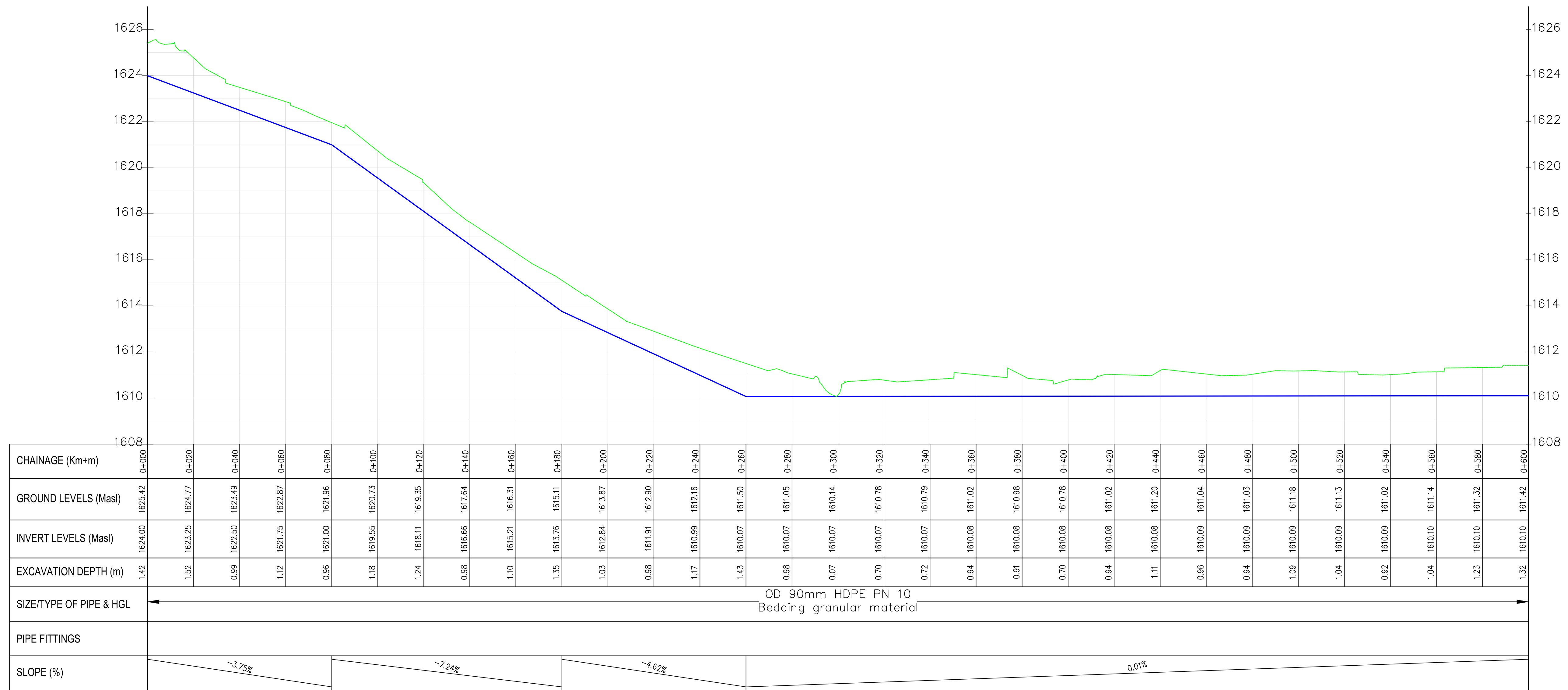
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PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
KAPCHELUGUNY

Designed by	CWM	Drawn by	SMN
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Lelechwet–Kures PROFILE



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Signed: Team Leader

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Client:



Financing the Water Sector

Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:



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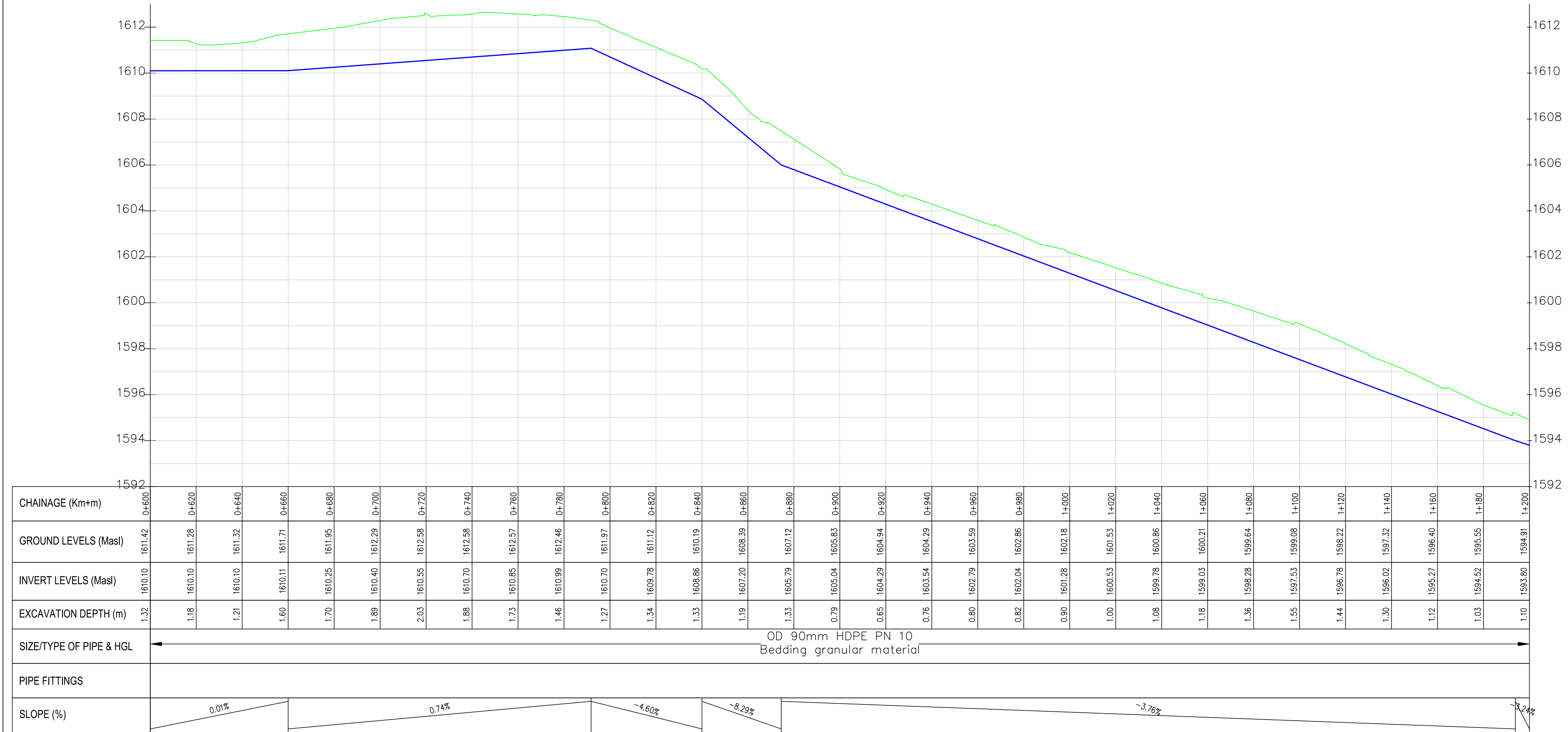
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 15	0 REV	



Lelechwet-Kures PROFILE



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Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

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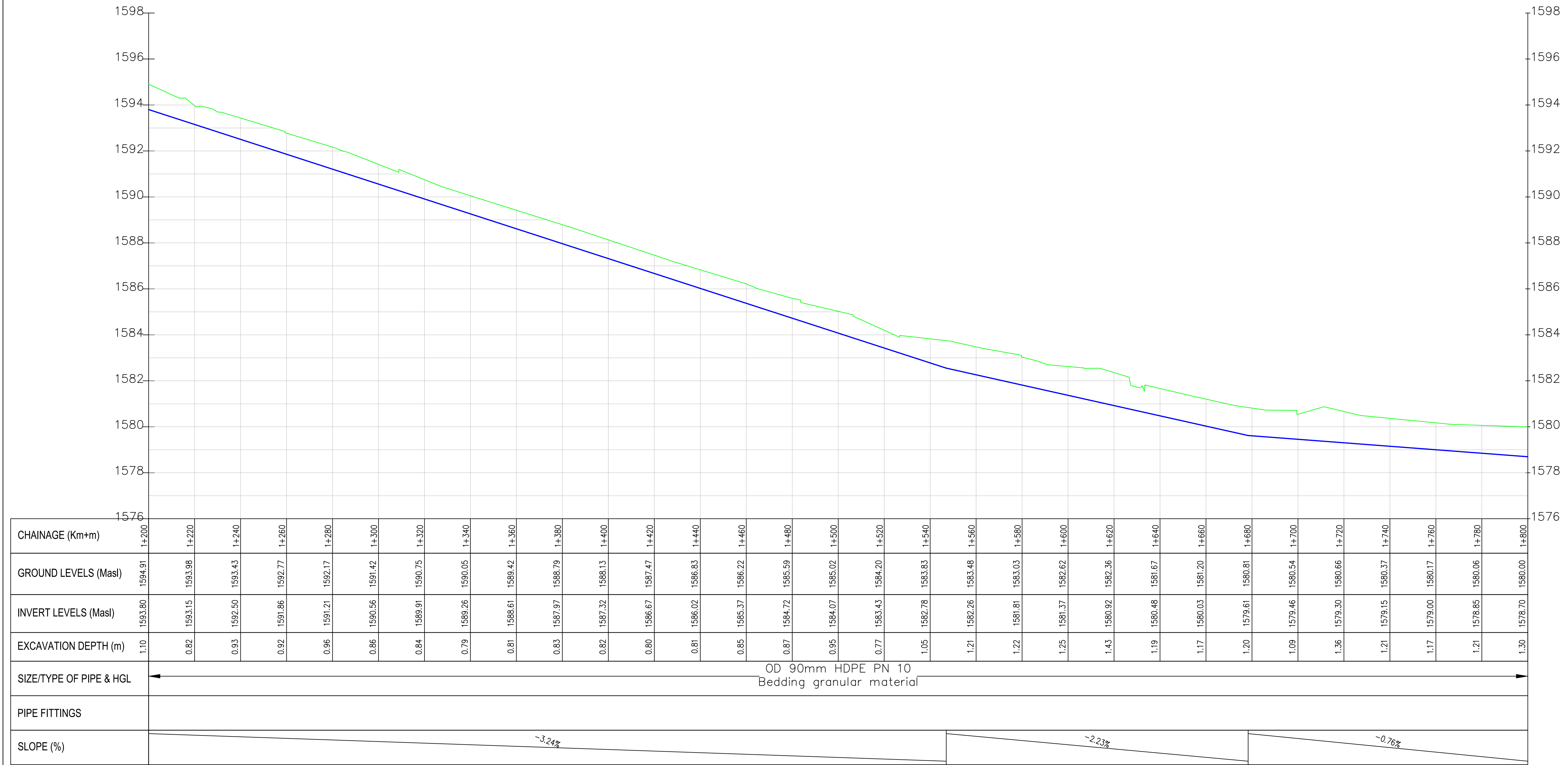
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PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES

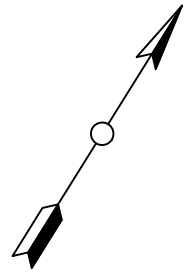
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Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 2 OF 15	0 REV	



Lelechwet-Kures PROFILE



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Client:


Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
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Design Consultants:


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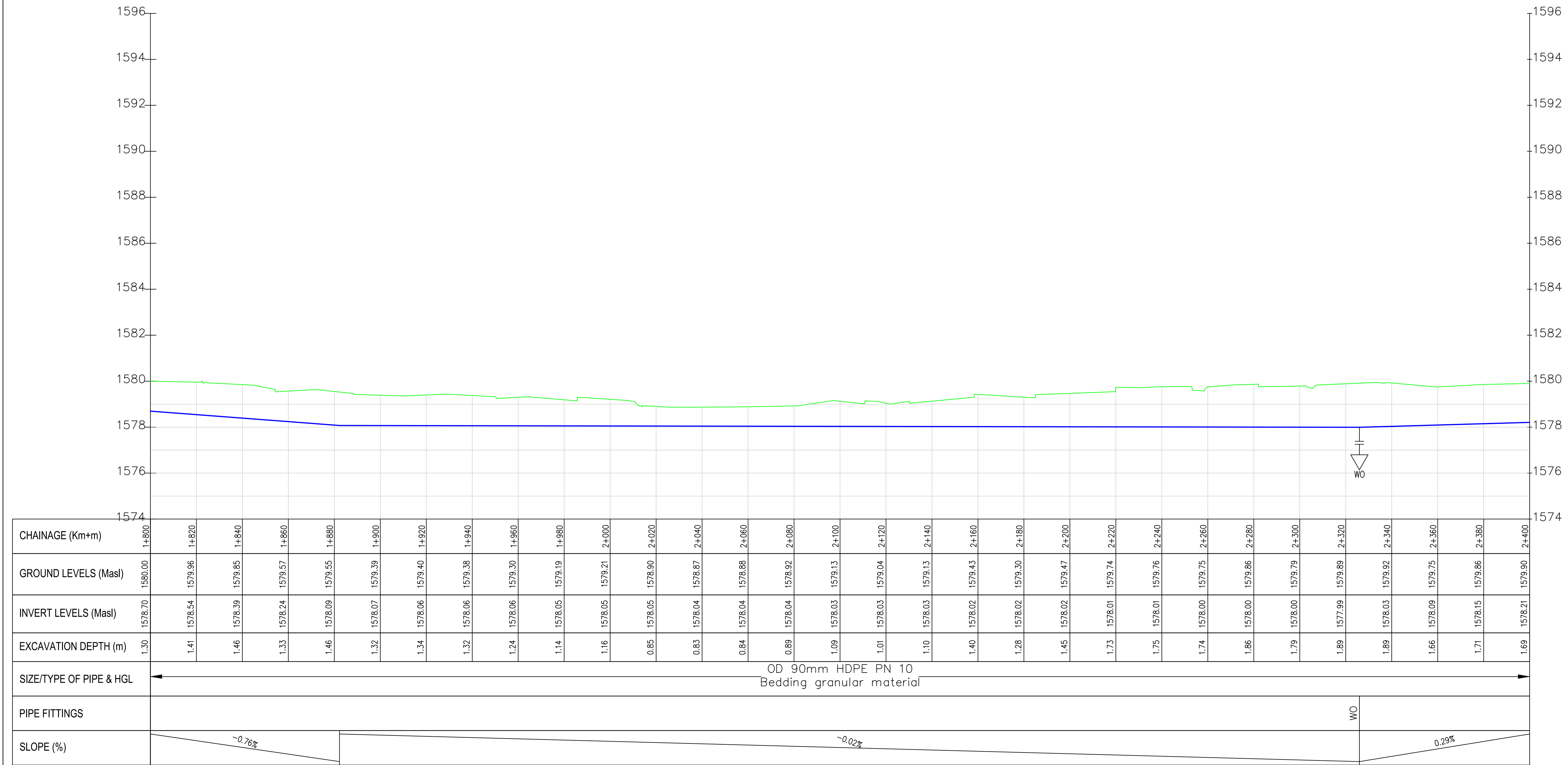
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**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES**

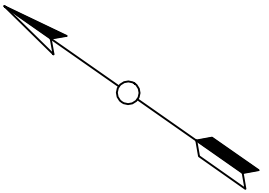
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Lelechwet-Kures PROFILE



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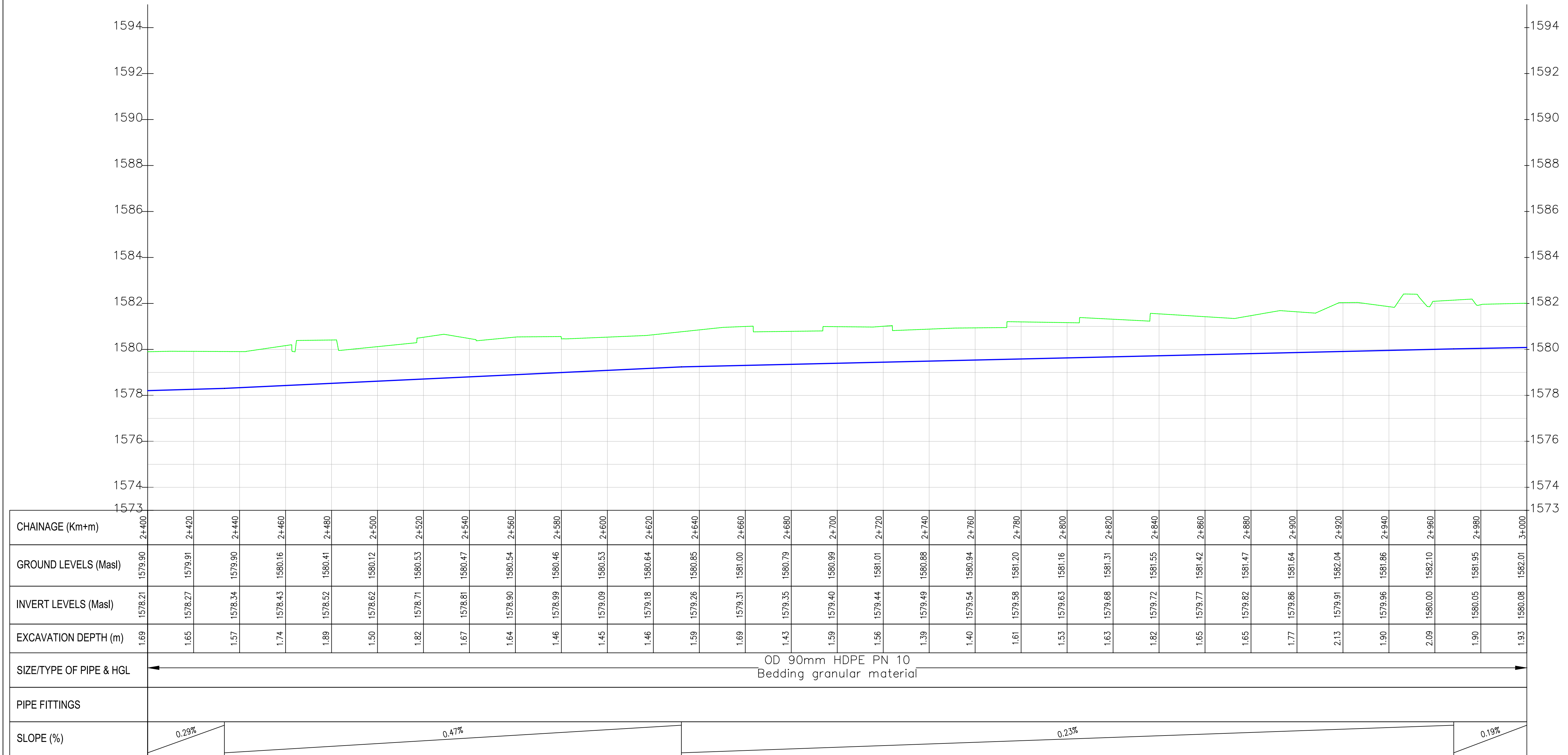
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
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0 STATUS	DRAWING NO. SHEET 4 OF 15	0 REV	



Lelechwet-Kures PROFILE



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Client:

WaterFund
Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
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UNDER EDE-CPIRA
PROGRAMME IN BARINGO
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Design Consultants:

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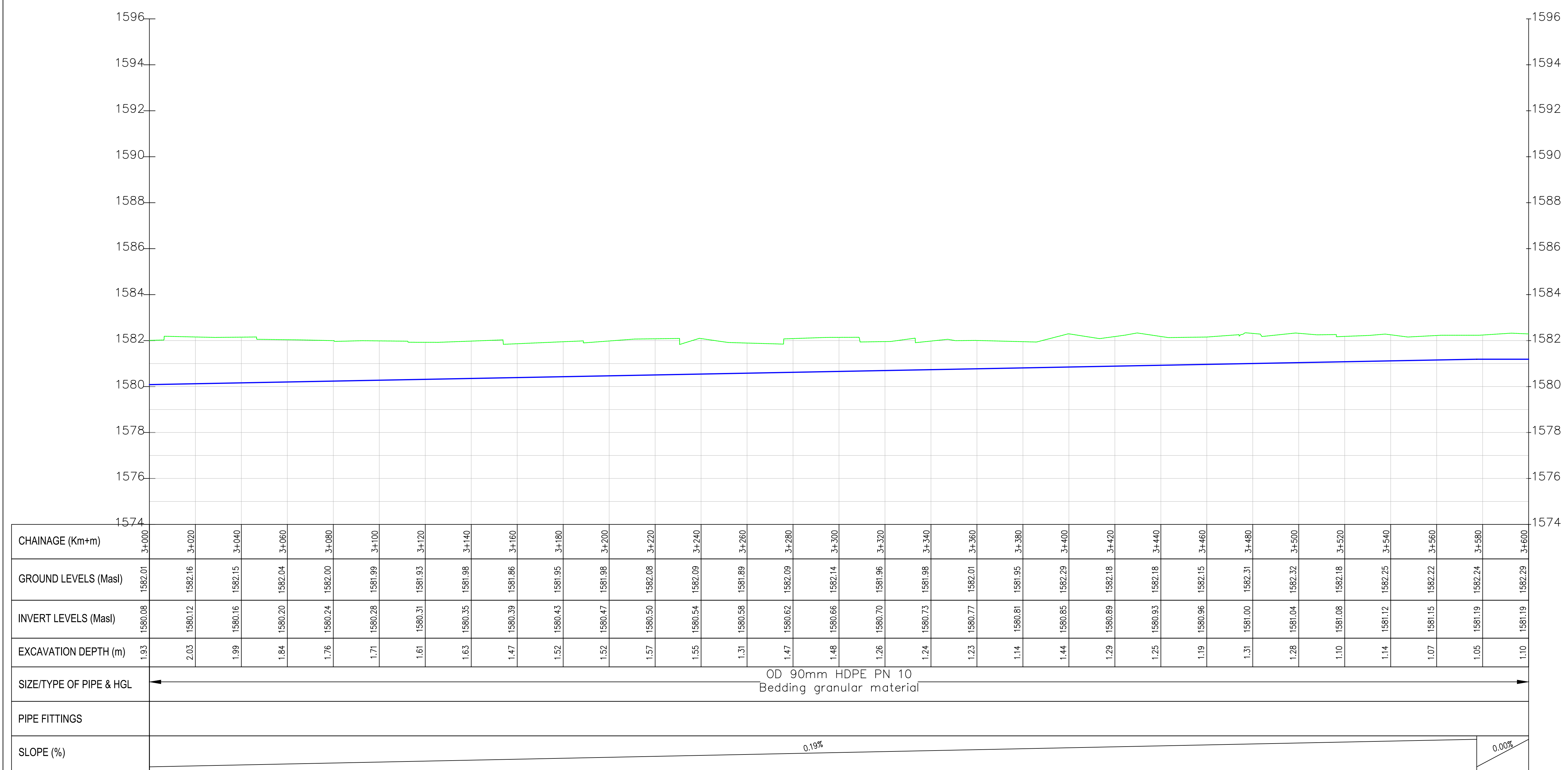
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PLAN AND PROFILE
LELECHWET KURES**

Designed by	CWM	Drawn by	SMN
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Scale	H = 1:1,000 V = 1:100	Date	November 2023
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0 STATUS	DRAWING NO. SHEET 5 OF 15	0 REV
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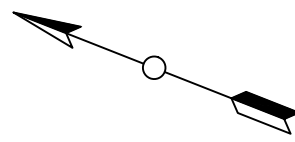


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SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:



Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES

Designed by	CWM	Drawn by	SMN
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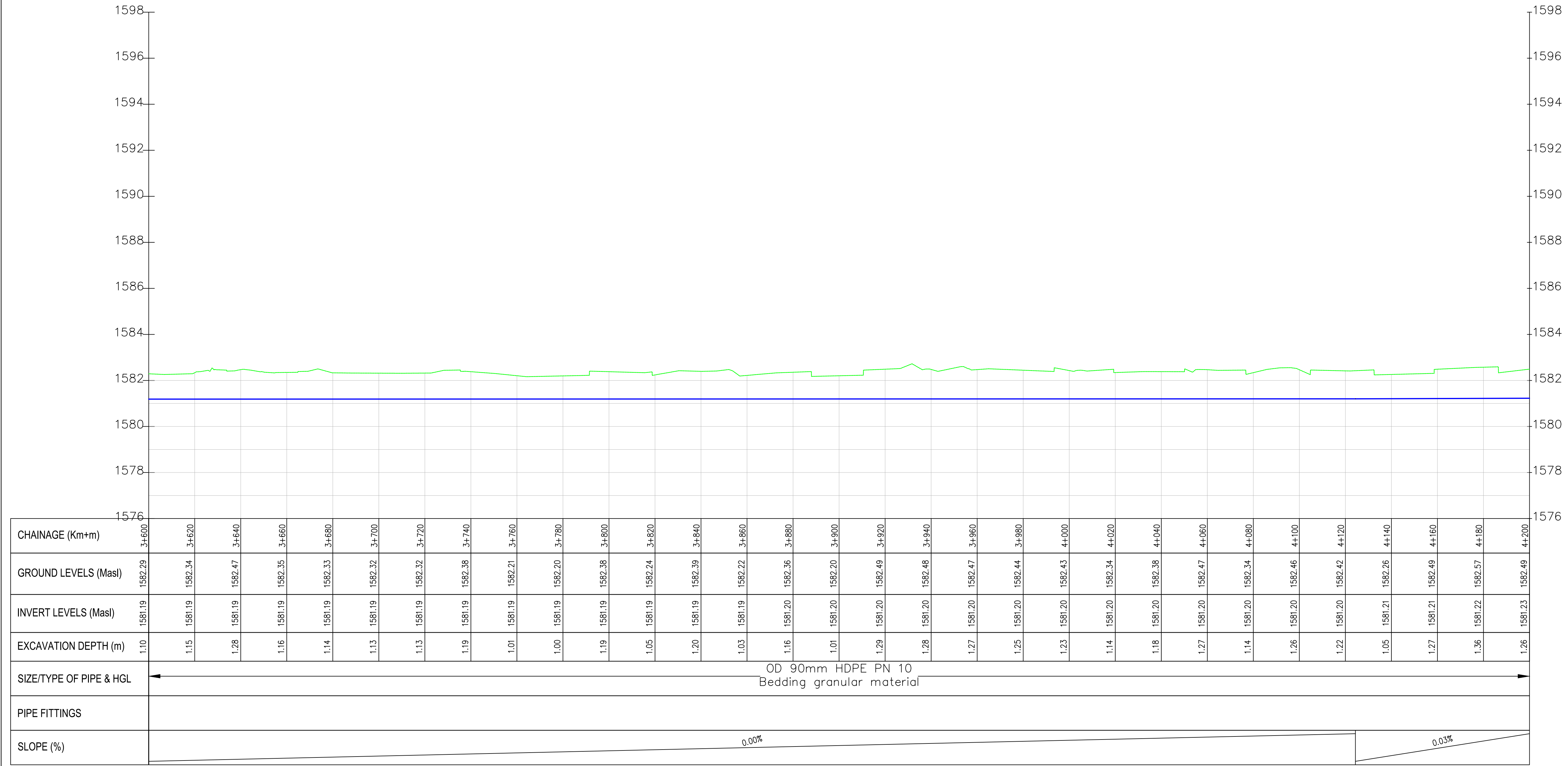
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- RIVER/STREAM

Lelechwet-Kures PROFILE



CHAINAGE (Km+m)	3+600		3+620		3+640		3+660		3+680		3+700		3+720		3+740		3+760		3+780		3+800		3+820		3+840		3+860		3+880		3+900		3+920		3+940		3+960		3+980		4+000		4+020		4+040		4+060		4+080		4+100		4+120		4+140		4+160		4+180		4+200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
GROUND LEVELS (Masl)	1582.29		1582.34		1582.47		1582.35		1582.33		1582.32		1582.32		1582.38		1582.21		1582.20		1582.38		1582.24		1582.39		1582.22		1582.36		1582.20		1582.49		1582.48		1582.47		1582.44		1582.43		1582.34		1582.38		1582.47		1582.46		1582.42		1582.26		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57		1582.49		1582.57	

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

Financing the Water Sector

Financier:

Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES

Designed by CWM

Drawn by SMN

Checked by EBO

Approved by KNM

Scale H = 1:1,000
V = 1:100

Date November 2023

Job No. WSTF/23

ACAD File: Saos

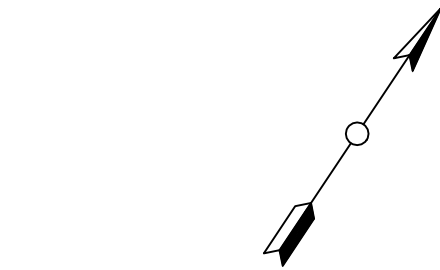
0 STATUS

DRAWING NO. SHEET 7 OF 15

0 REV

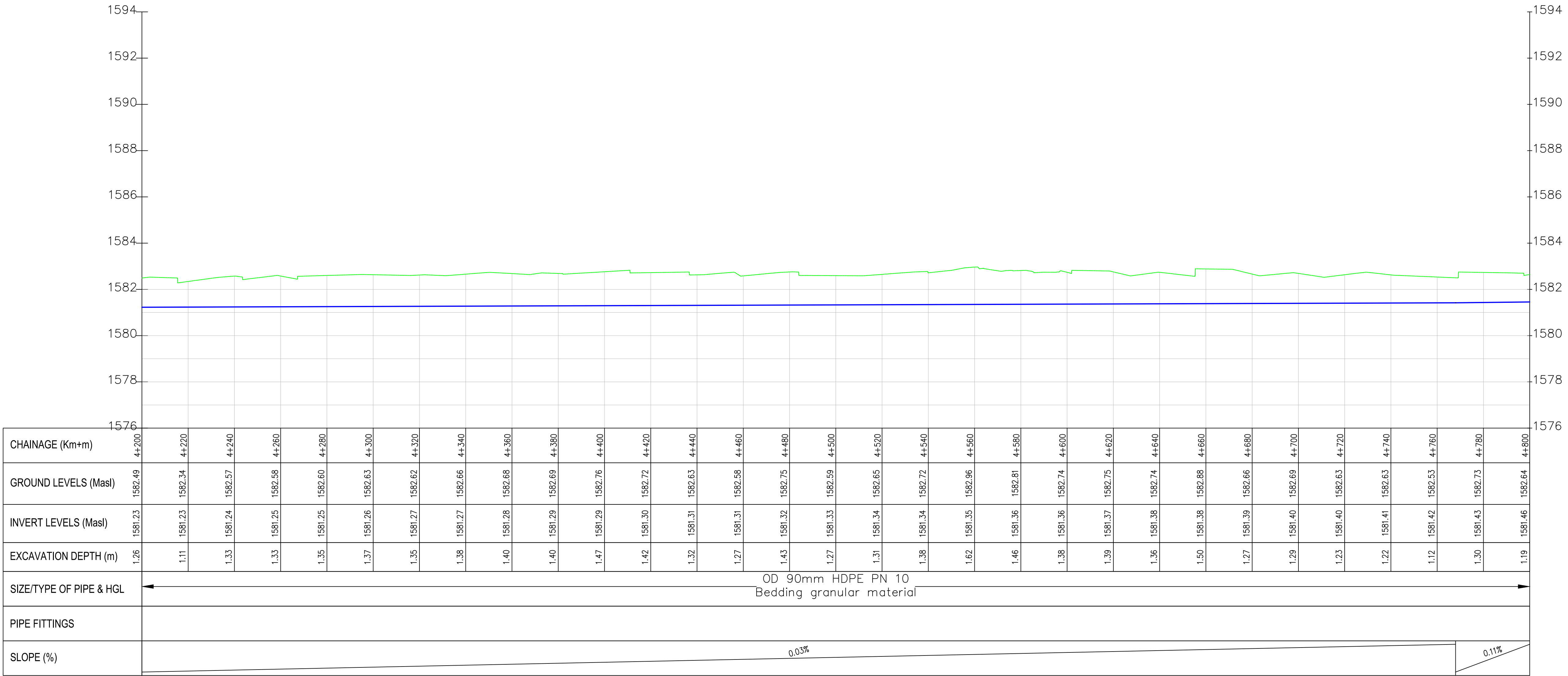


- NOTES:
1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 2. PIPES ARE TO BE LAID TO EVEN GRADIENTS WITH A MINIMUM COVER OF 1.0m AND 1.2m FOR TRAFFICKED AREAS. WHERE COVER IS LESS THAN THIS, PIPE TO BE SURROUNDED WITH CONCRETE.
 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELATED DRAWINGS, ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
 4. PRECISE ROUTES TO BE DETERMINED ON SITE.



- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

Lelechwet-Kures PROFILE



PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
		BY CHECKED			
		BY CHECKED			
		BY CHECKED			
		BY CHECKED			

Client:

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
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KENYA TEL:254-020-4441473/4444837
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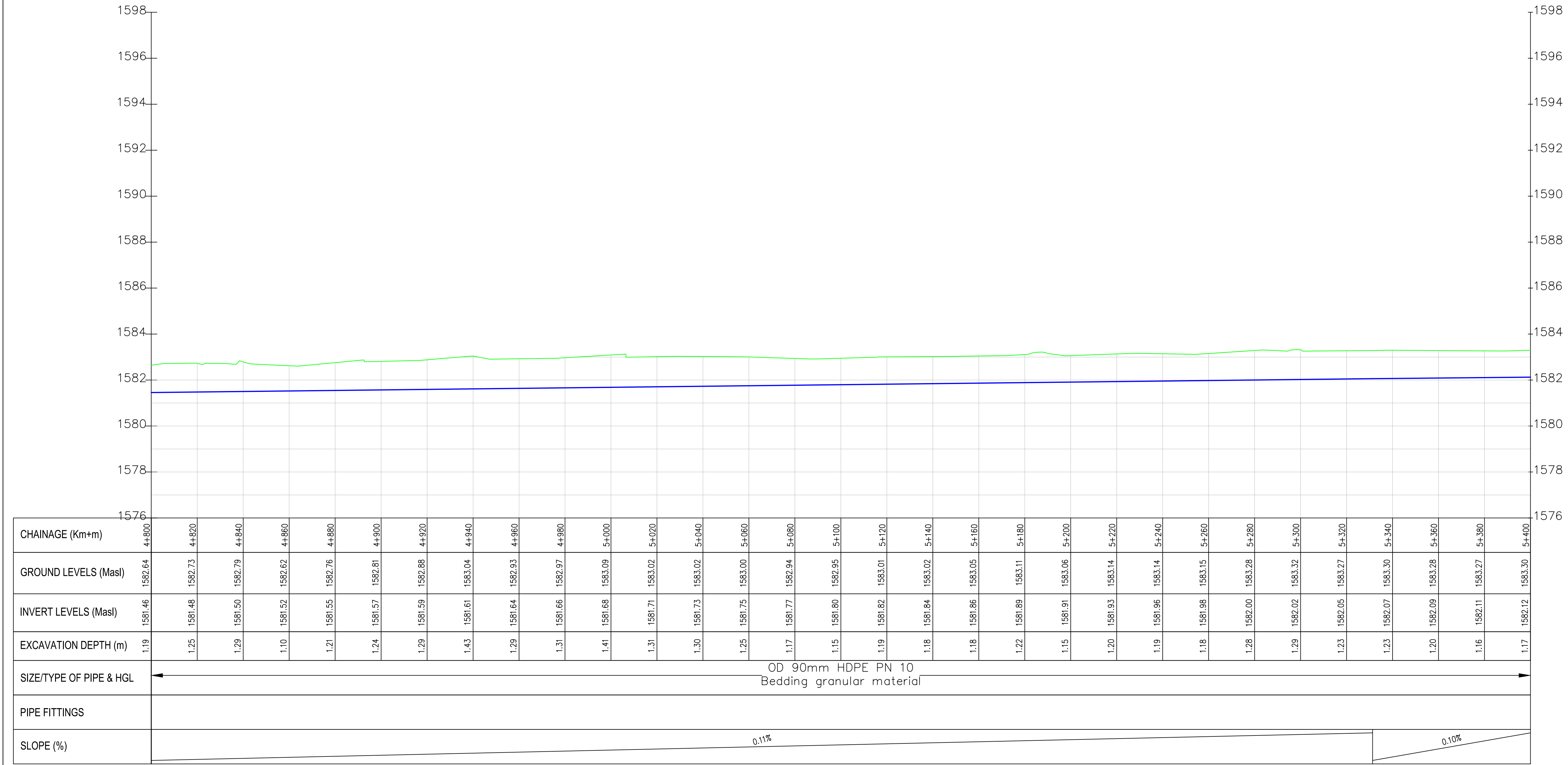
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING No. SHEET 8 OF 15	0 REV	



Lelechwet–Kures PROFILE



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- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
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Client:

Financier:

Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

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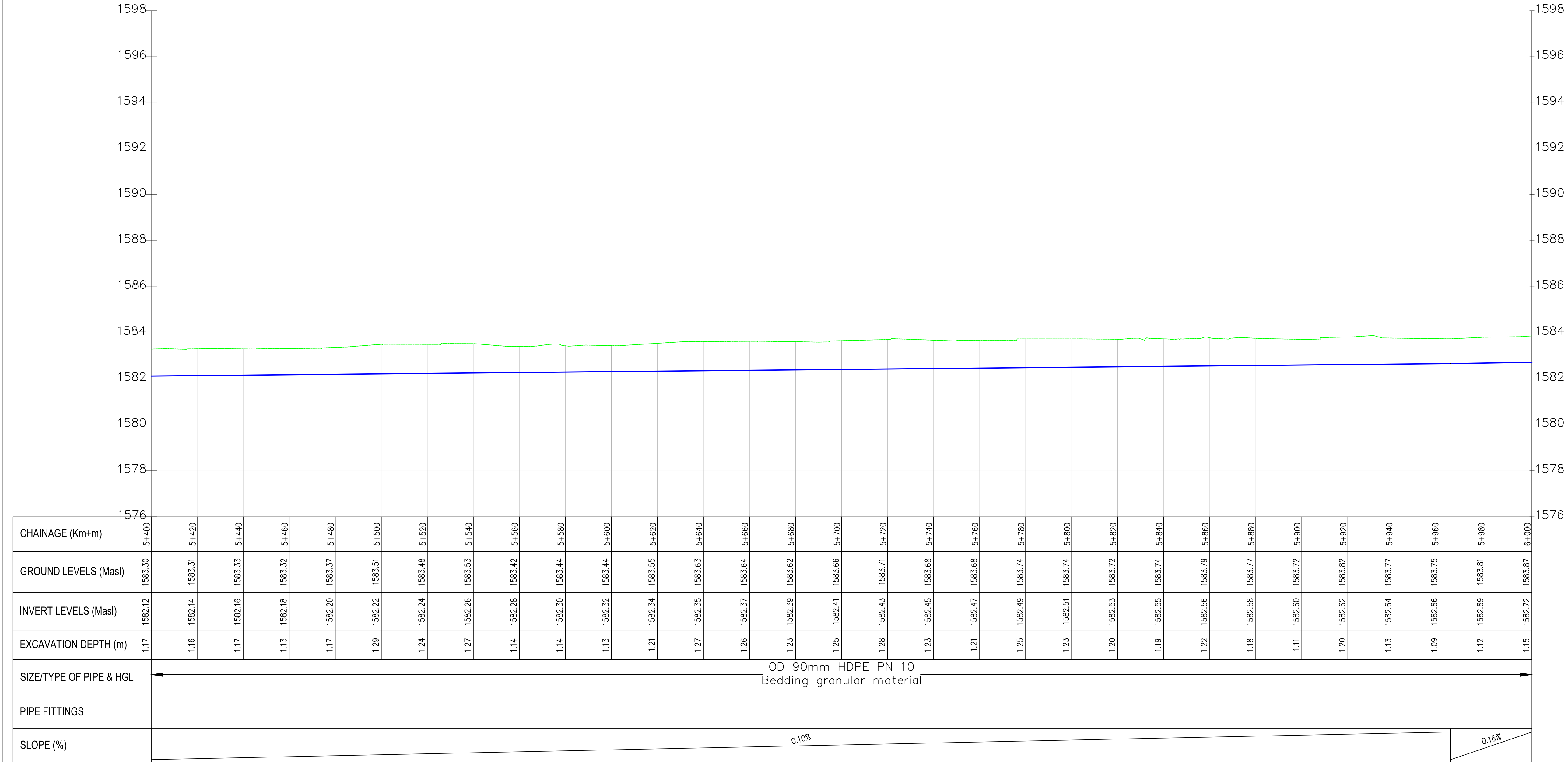
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES

Designed by	CWM	Drawn by	SMN	
Checked by	EB0	Approved by	KNM	
Scale	H = 1:1,000 V = 1:100	Date	November 2023	
Job No.	WSTF/23	ACAD File:	Saos	
0 STATUS	DRAWING No. SHEET 9 OF 15			0 REV



Lelechwet-Kures PROFILE



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- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
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Client:

WaterFund
Financing the Water Sector

Financier:

Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

gath
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES

Designed by CWM Drawn by SMN

Checked by EBO Approved by KNM

Scale H = 1:1,000 V = 1:100 Date November 2023

Job No. WSTF/23 ACAD File: Saos

0 STATUS DRAWING NO. SHEET 10 OF 15 0 REV



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PRELIMINARY ISSUE
Signed: Team Leader

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Client:

Financing the Water Sector

Financier:


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**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
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COUNTY**

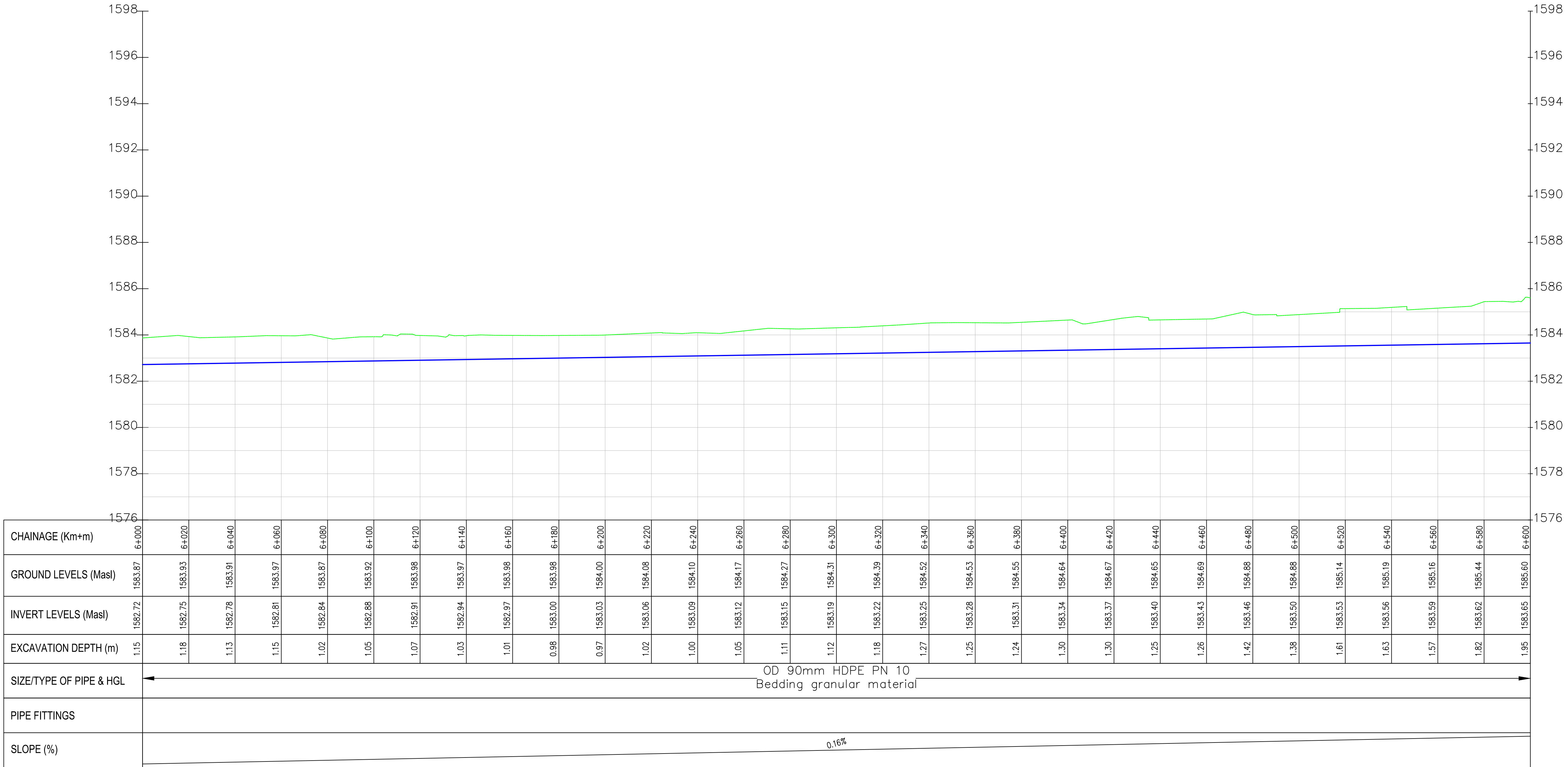
Design Consultants:

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KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:
**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 11 OF 15		0 REV

Lelechwet-Kures PROFILE





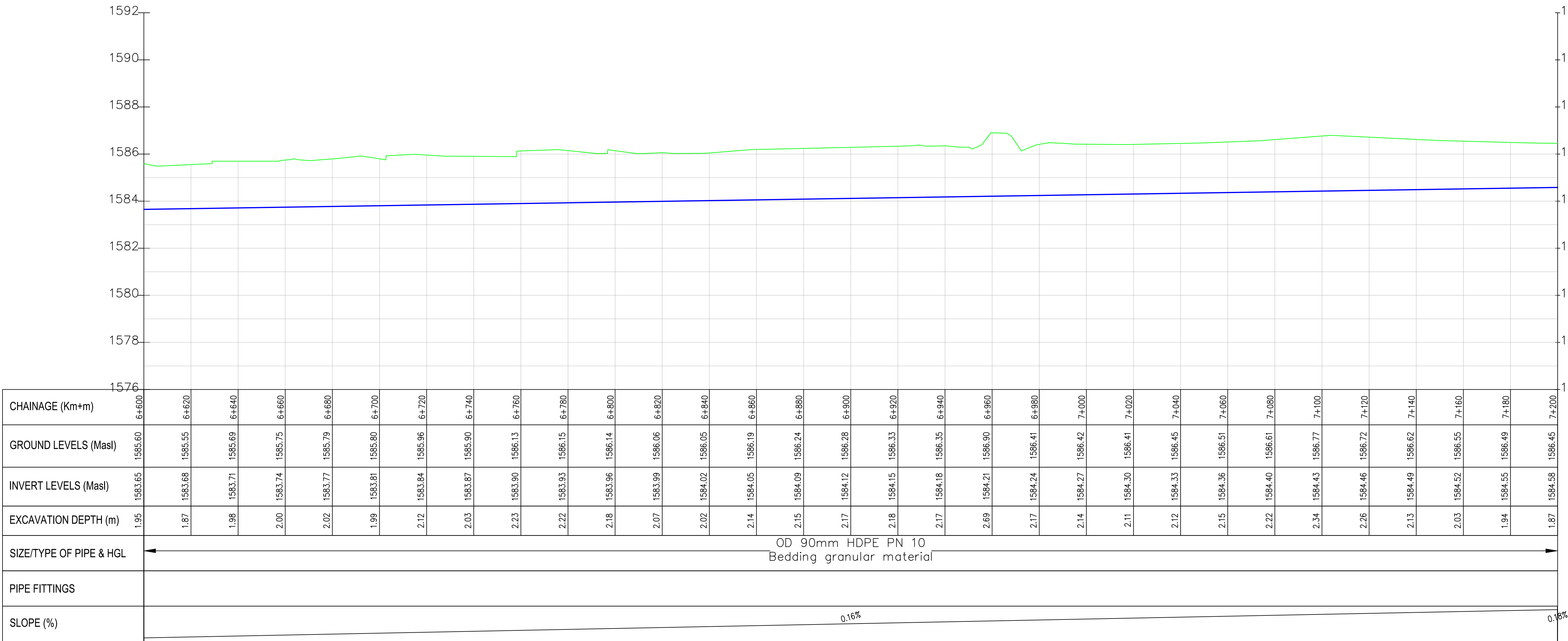
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PRELIMINARY ISSUE
Signed: Team Leader

Lelechwet-Kures PROFILE



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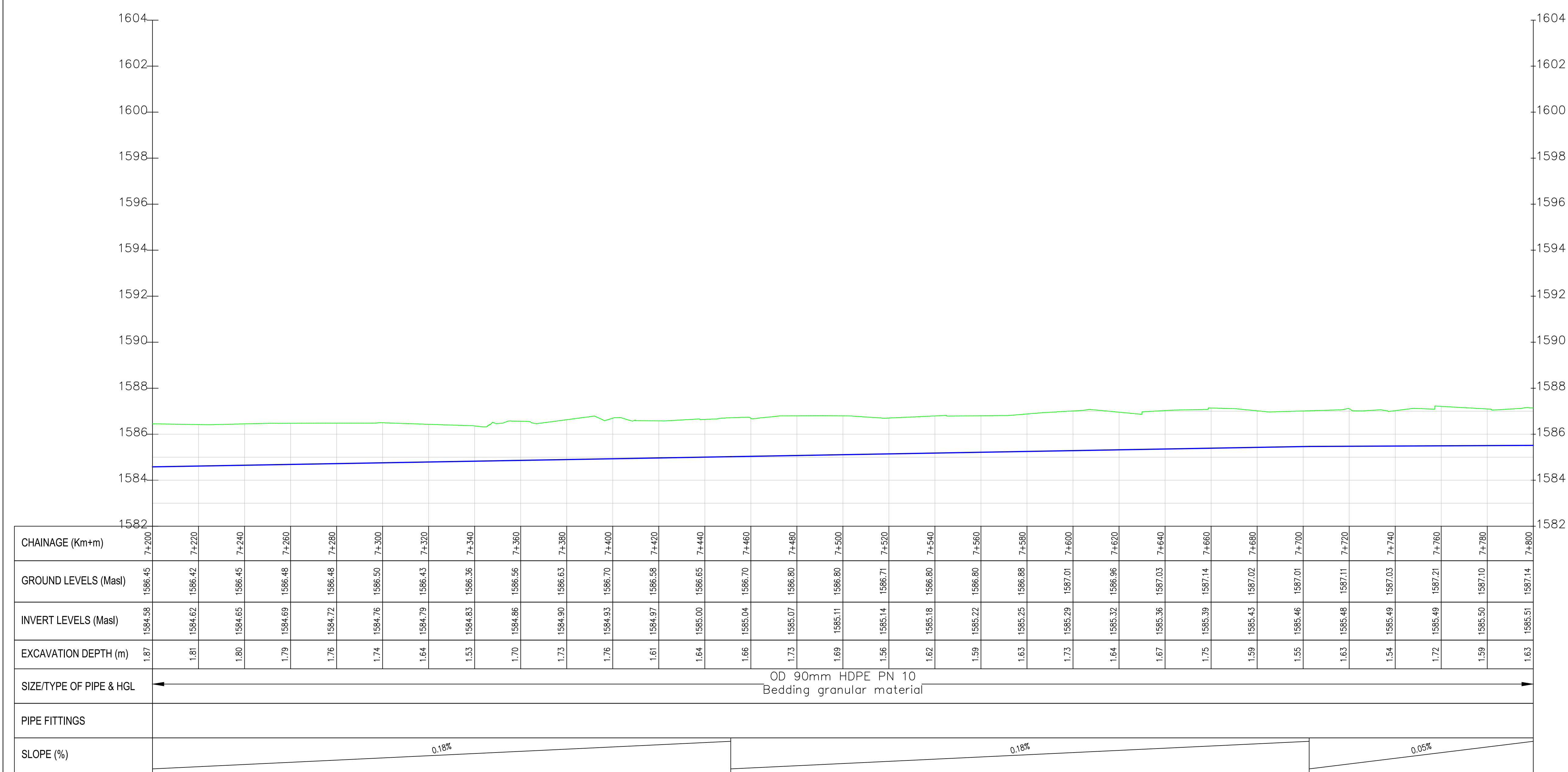
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 12 OF 15		0 REV



Lelechwet-Kures PROFILE



CHAINAGE (Km+m)	7+200	7+220	7+240	7+260	7+280	7+300	7+320	7+340	7+360	7+380	7+400	7+420	7+440	7+460	7+480	7+500	7+520	7+540	7+560	7+580	7+600	7+620	7+640	7+660	7+680	7+700	7+720	7+740	7+760	7+780	7+800
GROUND LEVELS (Masl)	1586.45	1586.42	1586.45	1586.48	1586.48	1586.50	1586.43	1586.36	1586.56	1586.63	1586.70	1586.58	1586.65	1586.70	1586.80	1586.80	1586.71	1586.80	1586.80	1586.88	1587.01	1587.03	1587.14	1587.14	1587.02	1587.01	1587.11	1587.03	1587.21	1587.10	1587.14
INVERT LEVELS (Masl)	1584.58	1584.62	1584.65	1584.69	1584.72	1584.76	1584.79	1584.83	1584.86	1584.90	1584.93	1584.97	1585.00	1585.04	1585.07	1585.11	1585.14	1585.18	1585.22	1585.25	1585.29	1585.32	1585.36	1585.39	1585.43	1585.46	1585.48	1585.49	1585.49	1585.50	1585.51
EXCAVATION DEPTH (m)	1.87	1.81	1.80	1.79	1.76	1.74	1.64	1.53	1.70	1.73	1.76	1.61	1.64	1.66	1.73	1.69	1.56	1.62	1.59	1.63	1.73	1.64	1.67	1.75	1.59	1.55	1.63	1.54	1.72	1.59	1.63
SIZE/TYPE OF PIPE & HGL	OD 90mm HDPE PN 10 Bedding granular material																														
PIPE FITTINGS																															
SLOPE (%)	0.18% 0.18% 0.05%																														

NOTES:

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- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
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Financing the Water Sector

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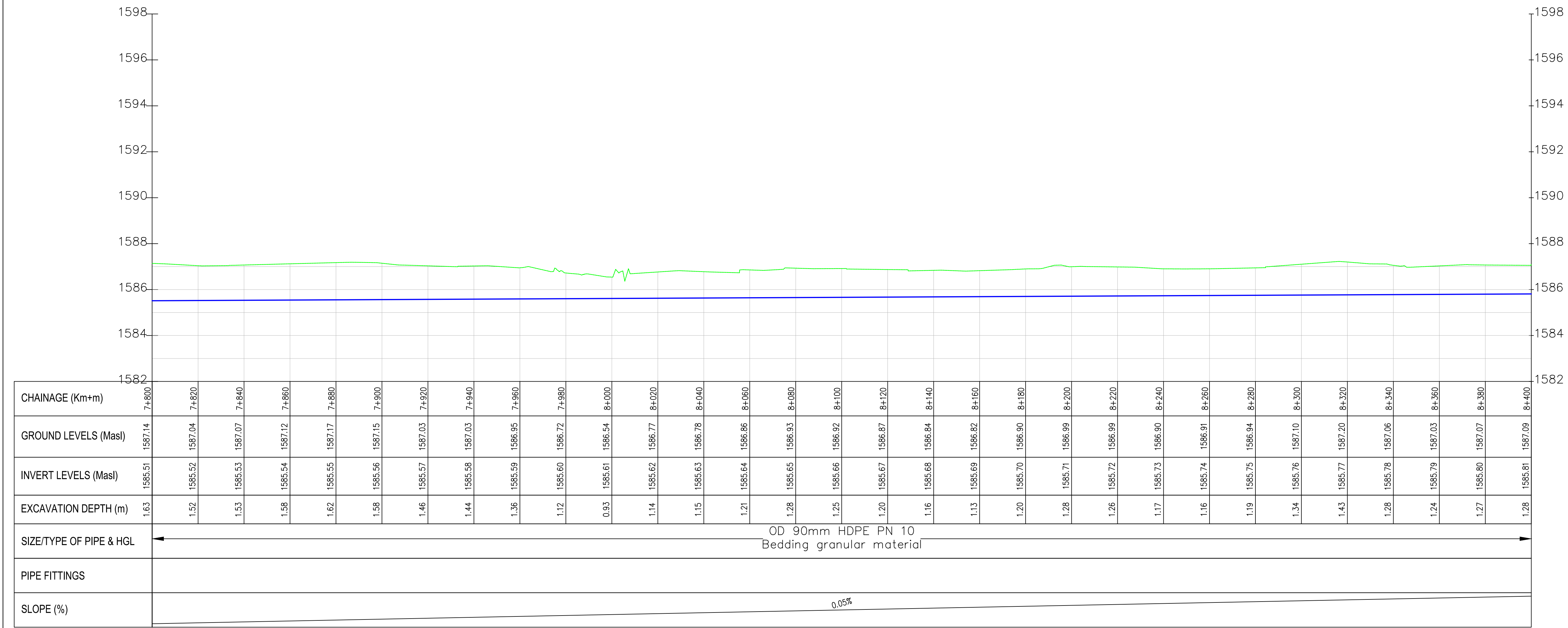
**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos

0	DRAWING NO.	SHEET 13 OF 15	0
STATUS			REV



Lelechwet–Kures PROFILE



NOTES:

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- PRECISE ROUTES TO BE DETERMINED ON SITE.

LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

Financing the Water Sector

Financier:


Project:
**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

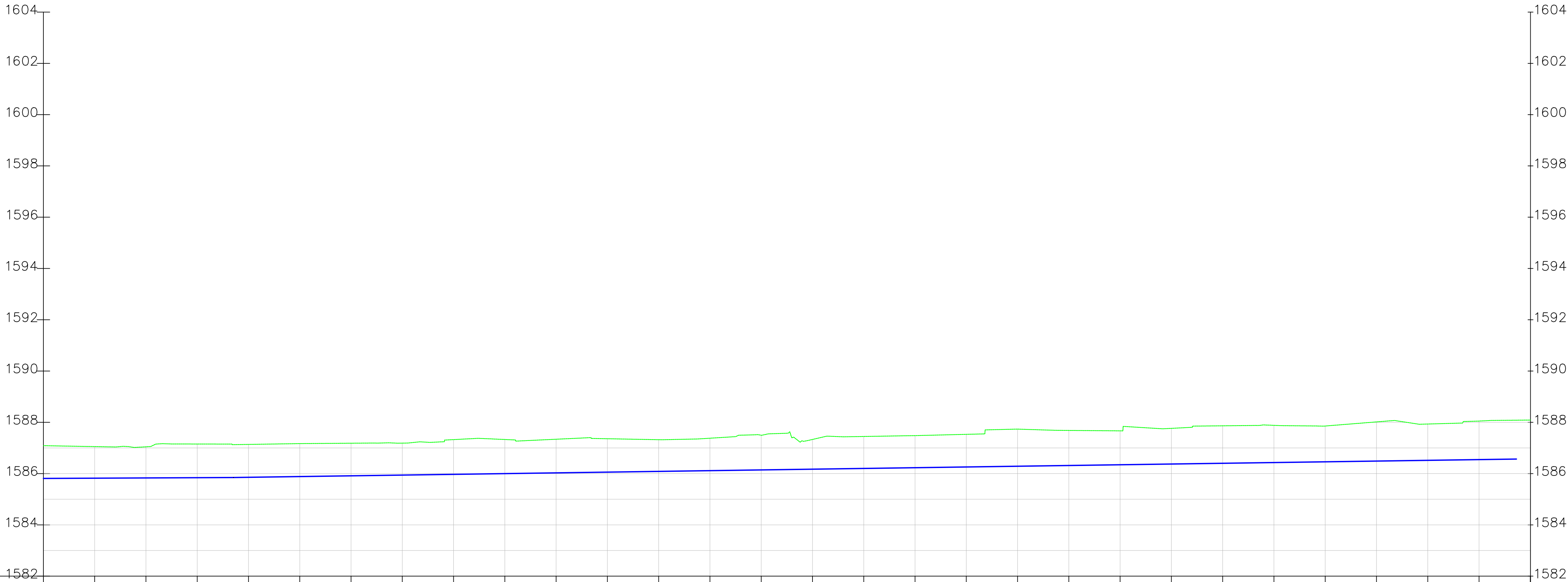
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:
**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 14 OF 15		0 REV

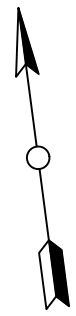


Lelechwet-Kures PROFILE



CHAINAGE (Km+m)	8+400	8+420	8+440	8+460	8+480	8+500	8+520	8+540	8+560	8+580	8+600	8+620	8+640	8+660	8+680	8+700	8+720	8+740	8+760	8+780	8+800	8+820	8+840	8+860	8+880	8+900	8+920	8+940	8+960	8+980
GROUND LEVELS (Masl)	1587.09	1587.05	1587.04	1587.15	1587.14	1587.17	1587.18	1587.19	1587.33	1587.33	1587.34	1587.36	1587.32	1587.38	1587.50	1587.33	1587.45	1587.48	1587.53	1587.73	1587.68	1587.67	1587.76	1587.86	1587.88	1587.86	1588.02	1587.93	1588.05	1588.09
INVERT LEVELS (Masl)	1585.81	1585.82	1585.83	1585.84	1585.86	1585.88	1585.91	1585.94	1585.97	1586.00	1586.03	1586.06	1586.09	1586.11	1586.14	1586.17	1586.20	1586.23	1586.26	1586.29	1586.32	1586.34	1586.37	1586.40	1586.43	1586.46	1586.49	1586.52	1586.55	
EXCAVATION DEPTH (m)	1.28	1.23	1.21	1.31	1.28	1.29	1.27	1.25	1.35	1.33	1.31	1.30	1.24	1.27	1.35	1.16	1.25	1.25	1.27	1.45	1.37	1.32	1.39	1.46	1.45	1.40	1.53	1.42	1.50	
SIZE/TYPE OF PIPE & HGL	OD 90mm HDPE PN 10 Bedding granular material																													
PIPE FITTINGS																														
SLOPE (%)	0.05% 0.14%																													

- NOTES:
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- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

gath CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, 00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

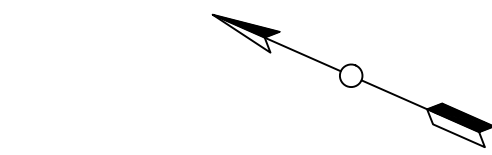
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET KURES

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 15 OF 15	0 REV	



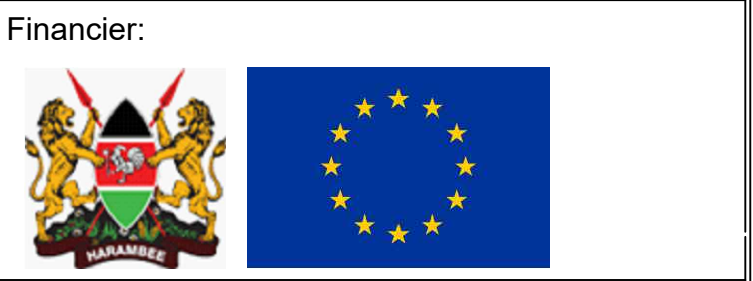
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PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			



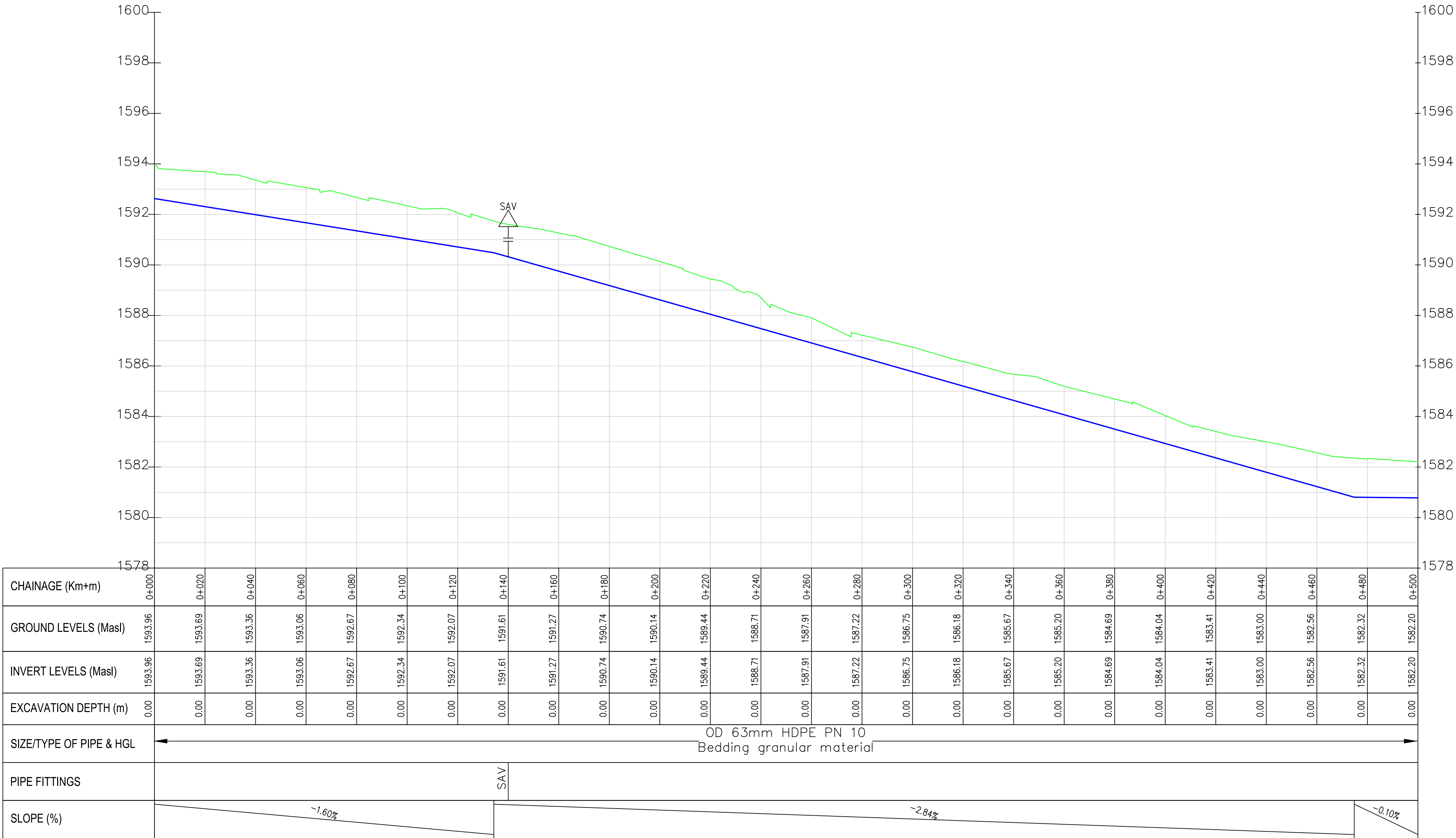
Project:
**SAOS - UPPER EMINING
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UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:
gath CONSULTING ENGINEERS,
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KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:
**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET DISTRIBUTION**

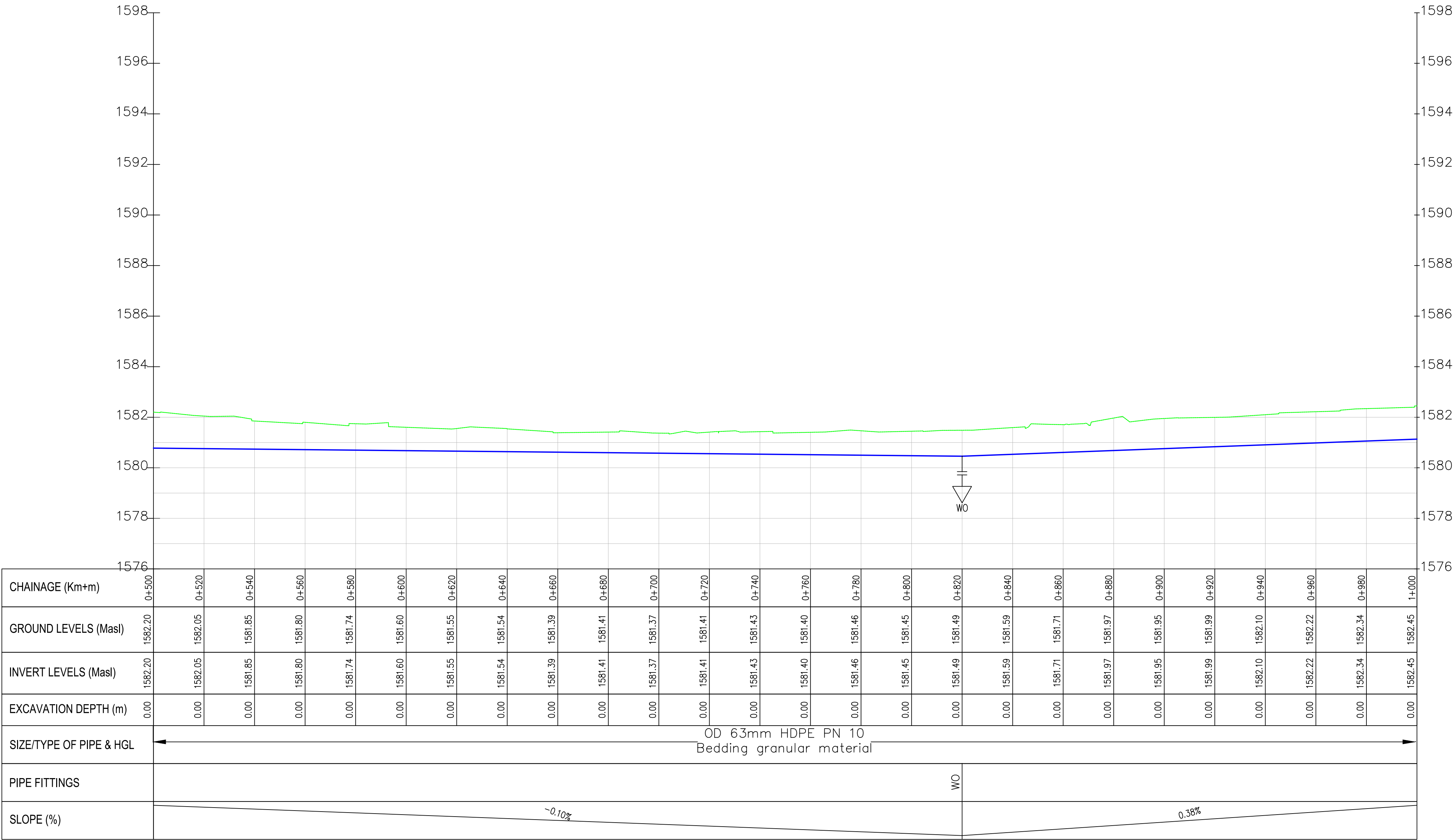
Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 3		0 REV

Lelechwet distribution PROFILE



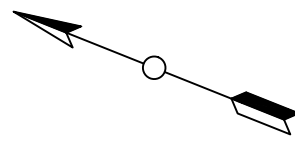


Lelechwet distribution PROFILE



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PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
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	BY			
	CHECKED			
	BY			
	CHECKED			

Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:



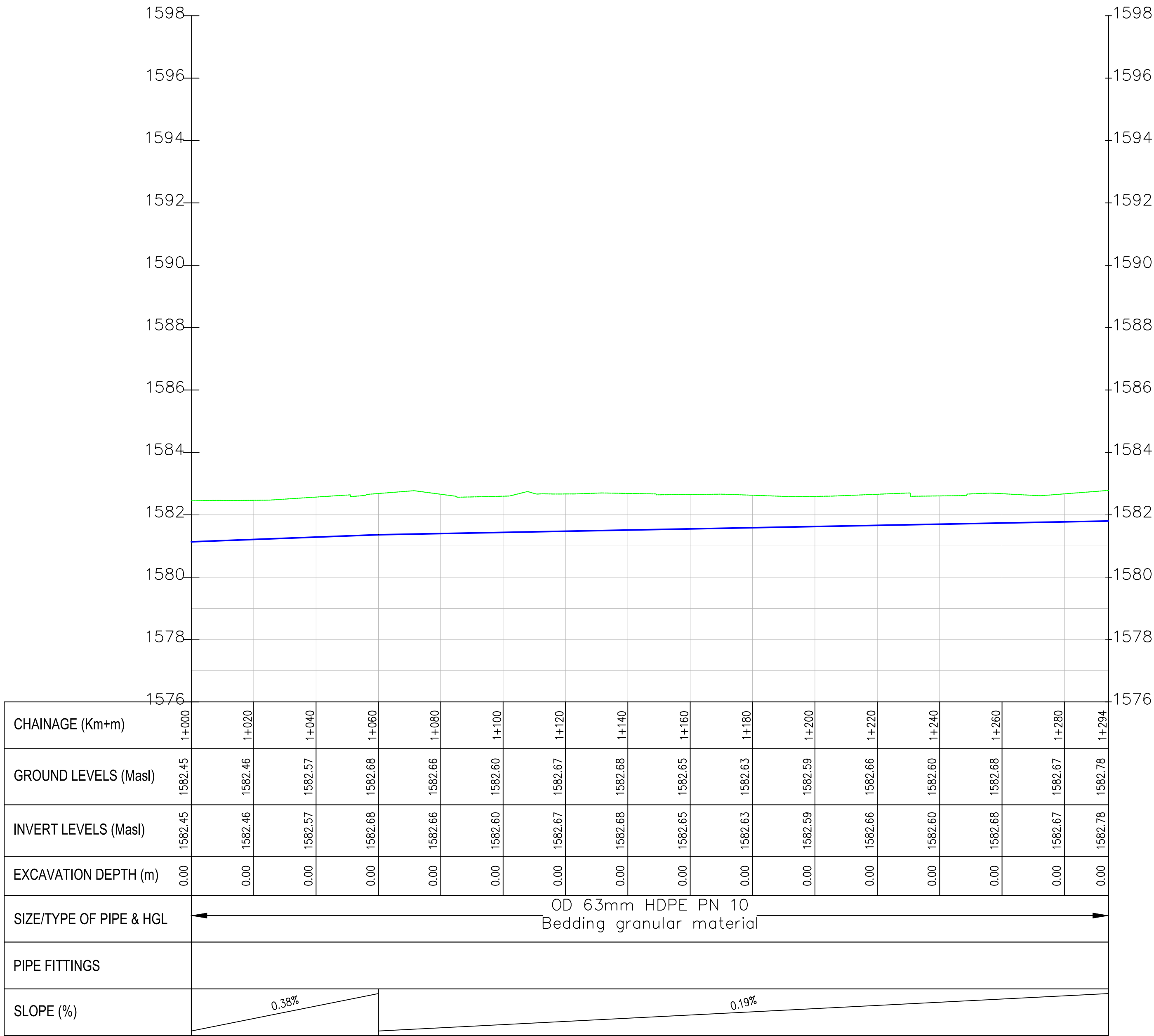
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET DISTRIBUTION

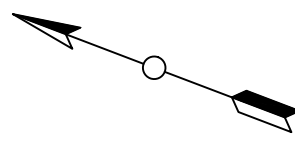
Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 2 OF 3	0 REV	



Lelechwet distribution PROFILE



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PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			

Client:

Financier:

Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
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P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

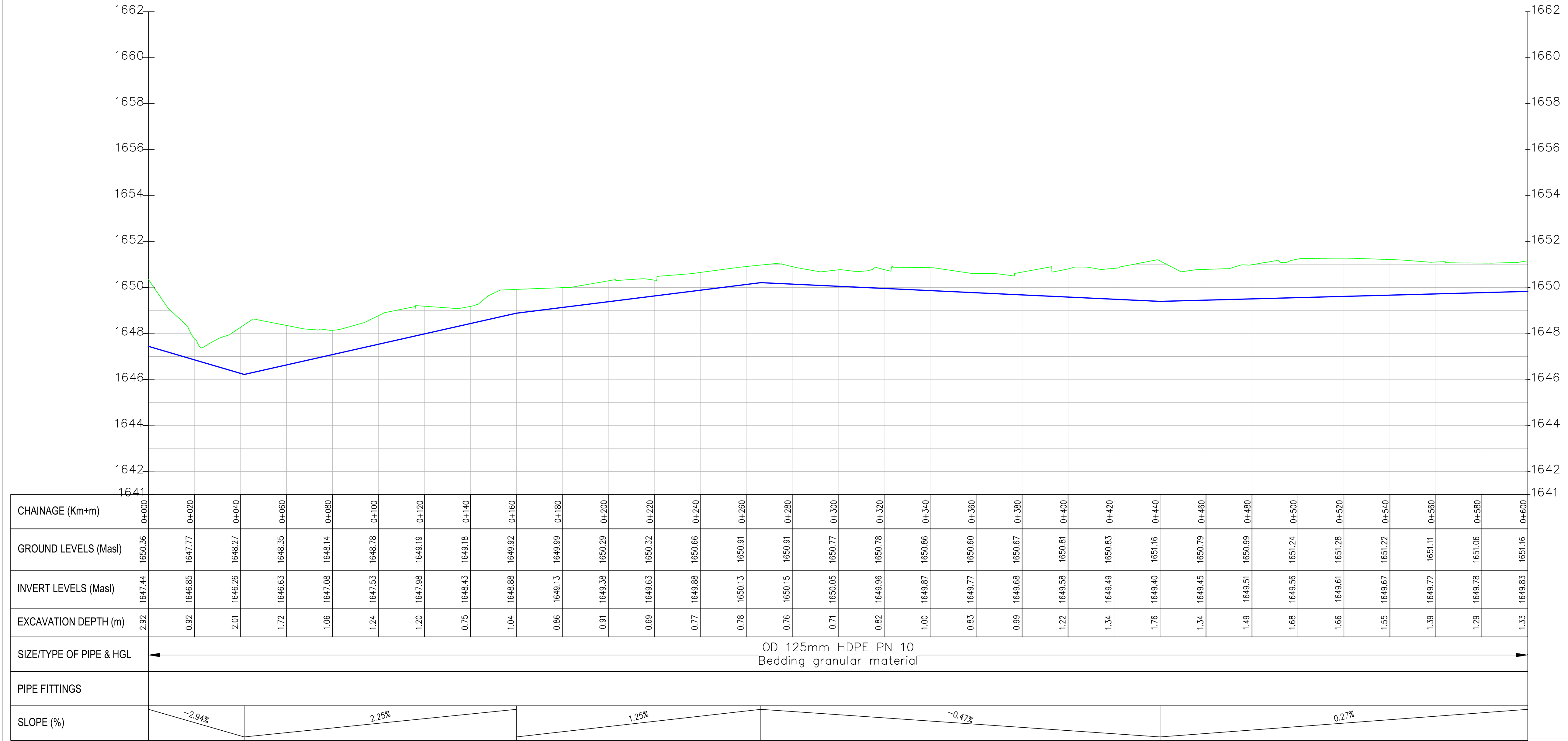
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET DISTRIBUTION

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING No. SHEET 3 OF 3		0 REV



Oasis–Lombala PROFILE



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PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
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	CHECKED			
	BY			
	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath
CONSULTING ENGINEERS
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL: gce@gathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LOMBALA**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 10	0 REV	

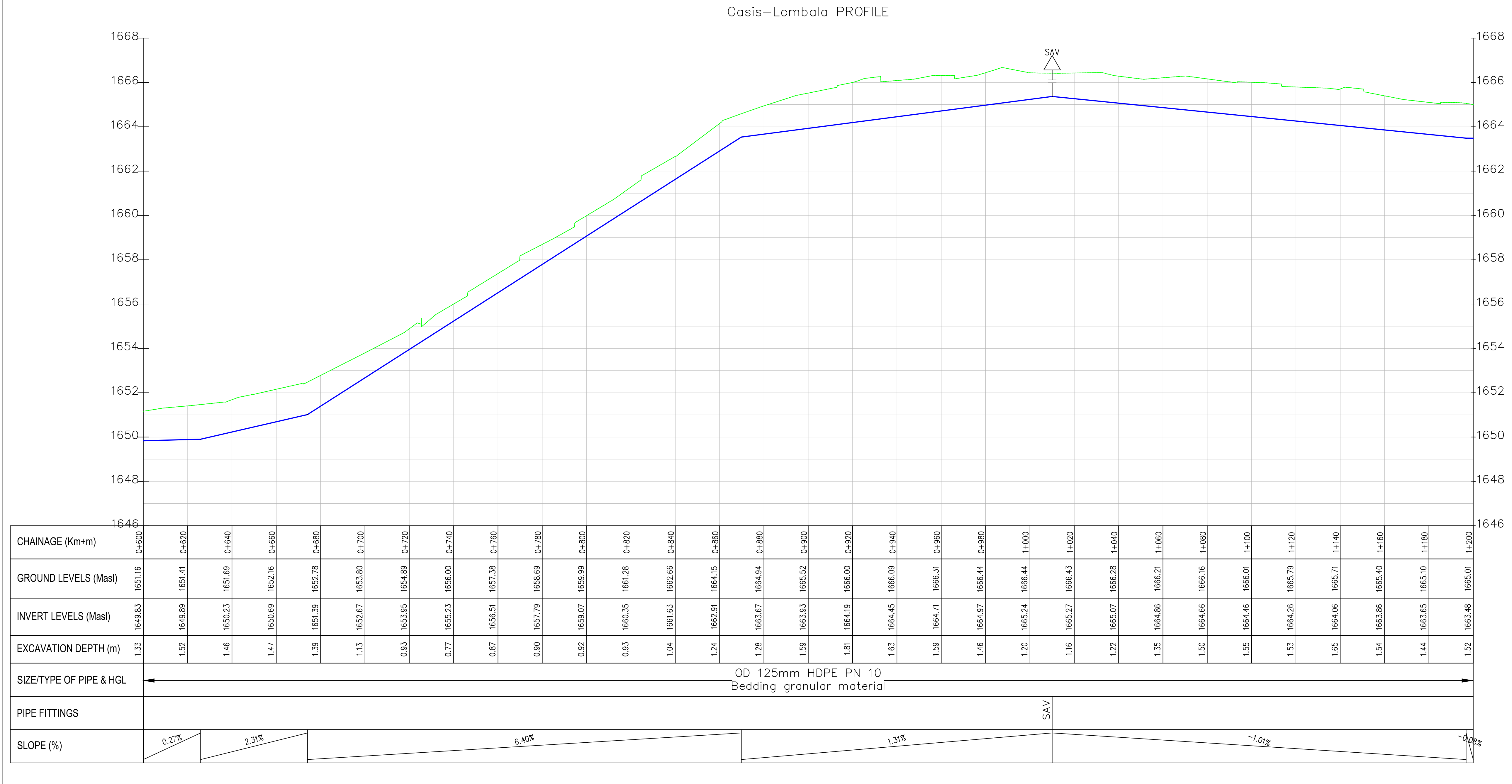


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- WATER LINES (PROPOSED)
- RIVER/STREAM



PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
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	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

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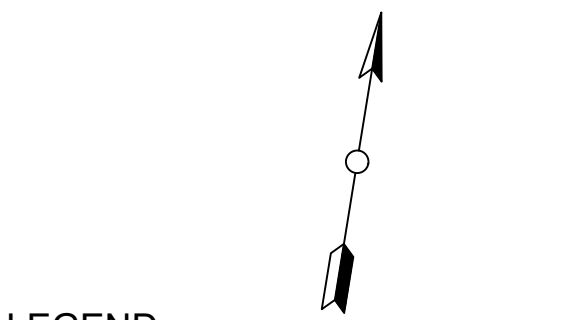
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LOMBALA**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 2 OF 10	0 REV	

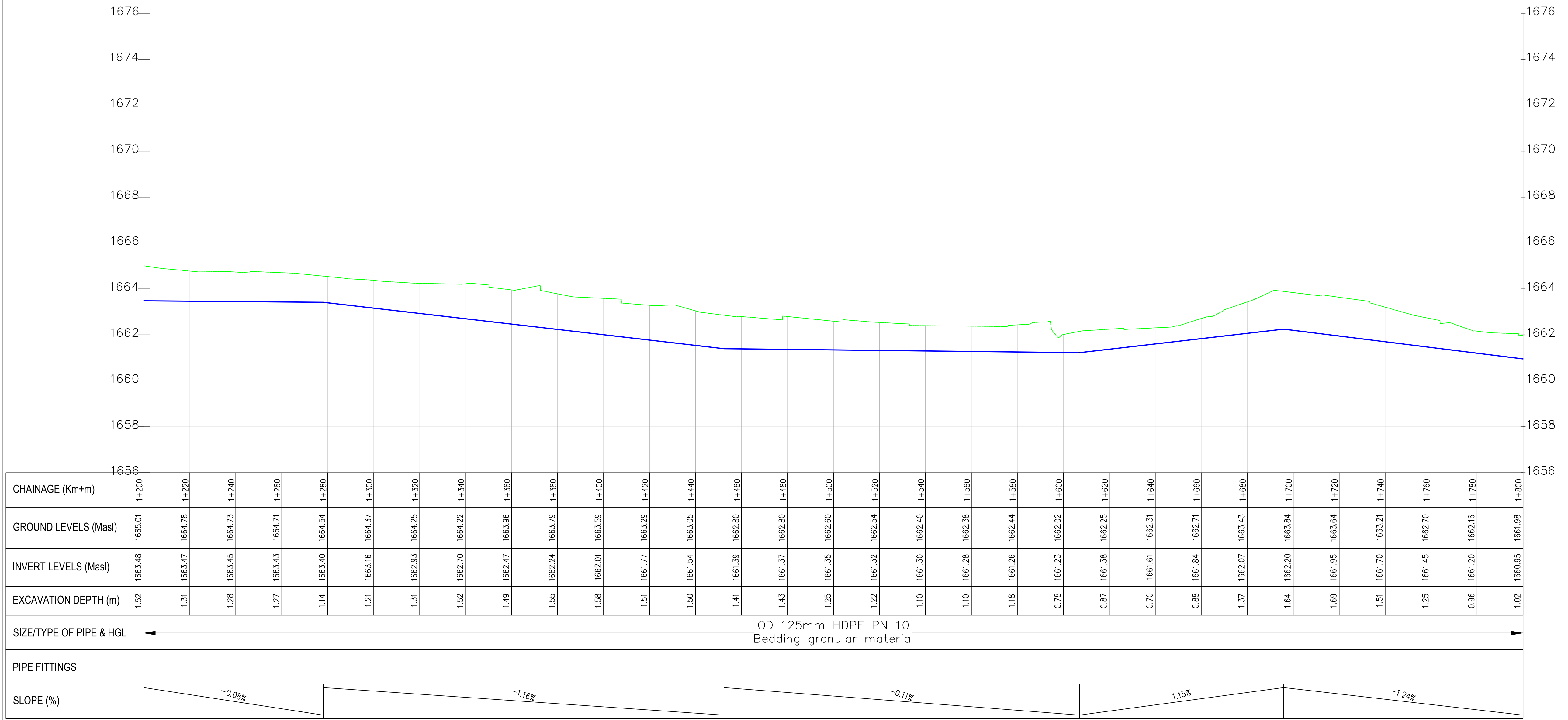


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Oasis—Lombala PROFILE



PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
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	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath
CONSULTING ENGINEERS
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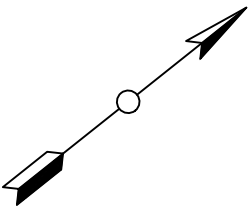
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LOMBALA**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	SAOS
0 STATUS	DRAWING NO.	SHEET 3 OF 10	0 REV

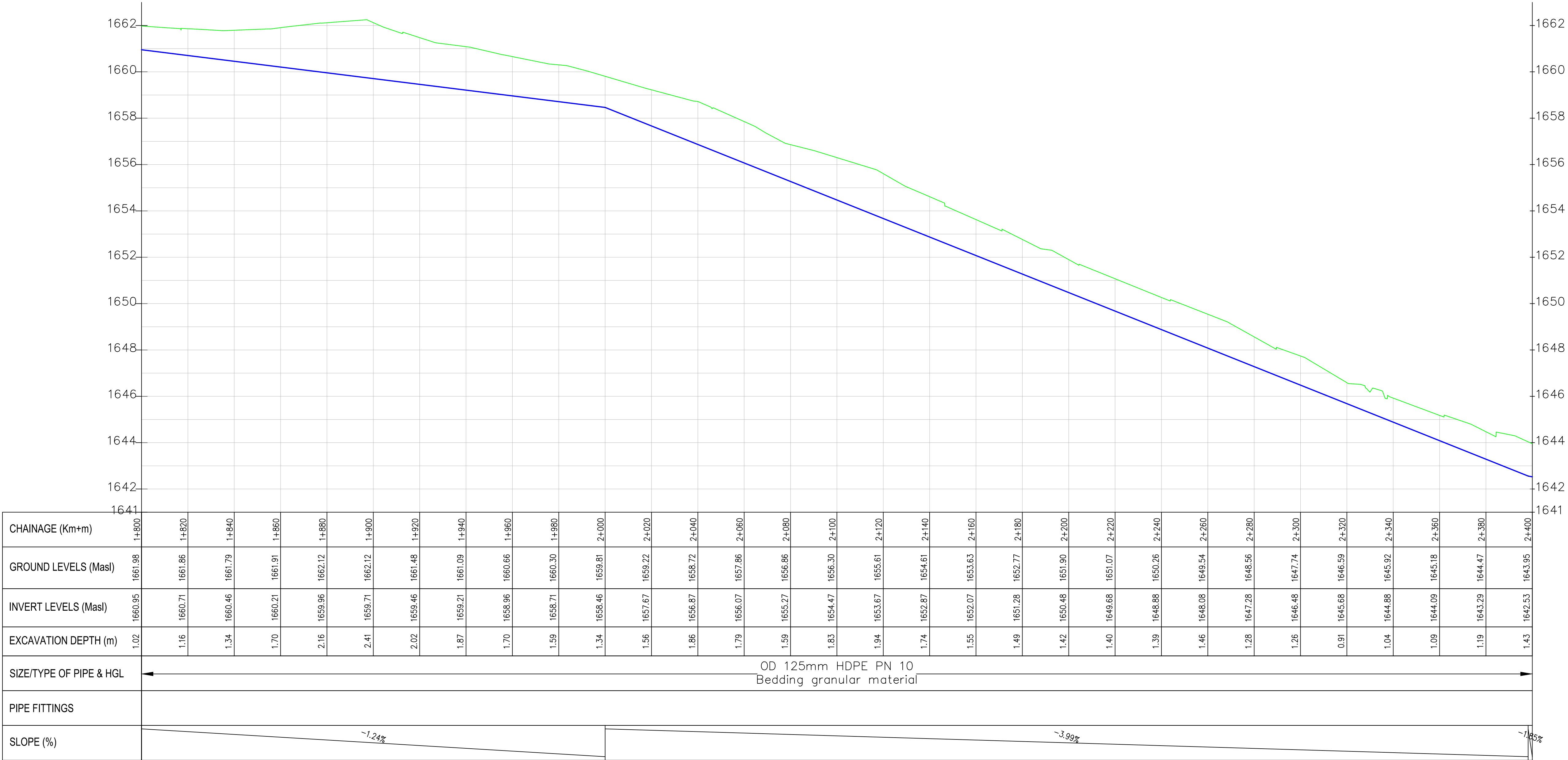


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Oasis-Lombala PROFILE



PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
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WATER SUPPLY PROJECT
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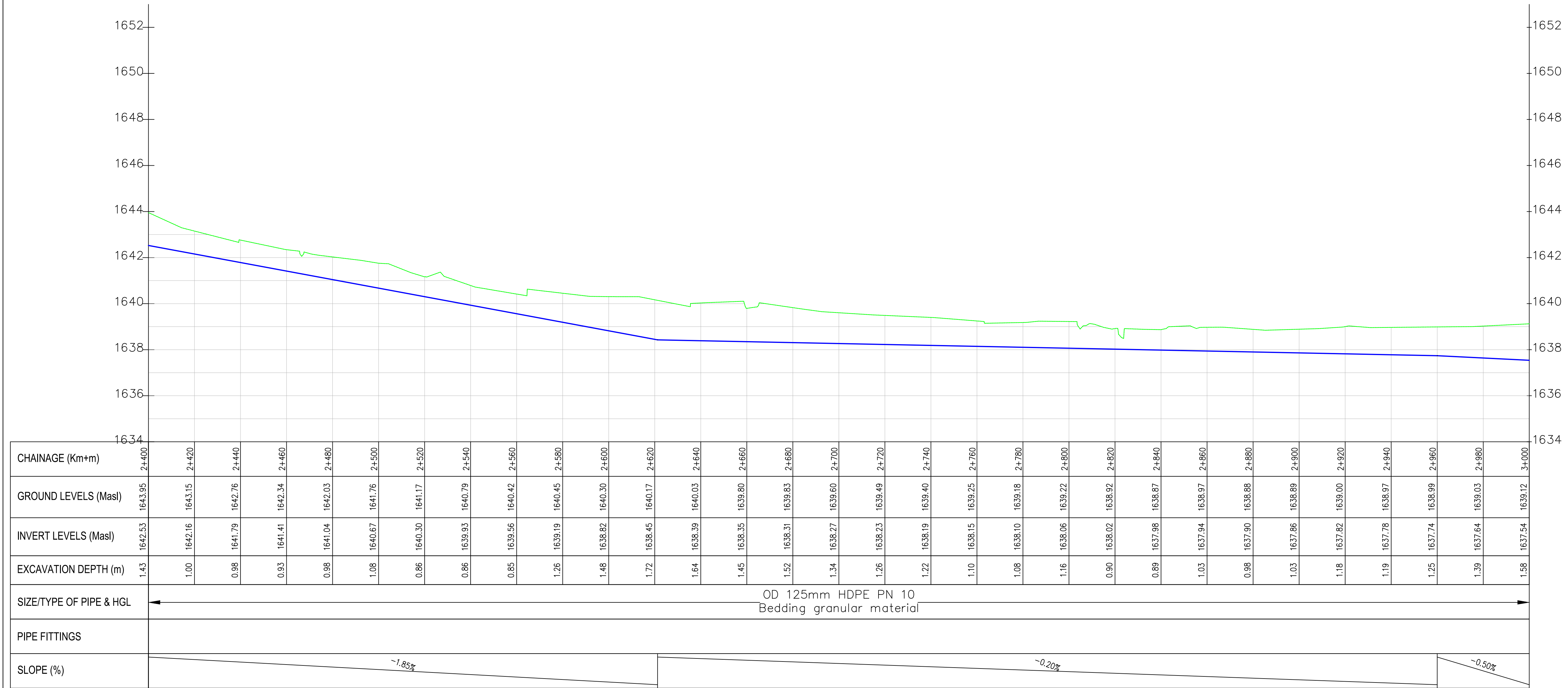
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LOMBALA**

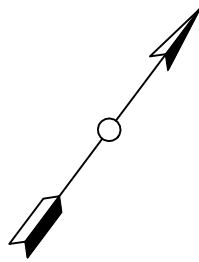
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Checked by	EBO	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 4 OF 10	0 REV	



Oasis–Lombala PROFILE



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PRELIMINARY ISSUE
Signed: Team Leader

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Financier:

Project:

SAOS - UPPER EMINING
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UNDER EDE-CPIRA
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Design Consultants:

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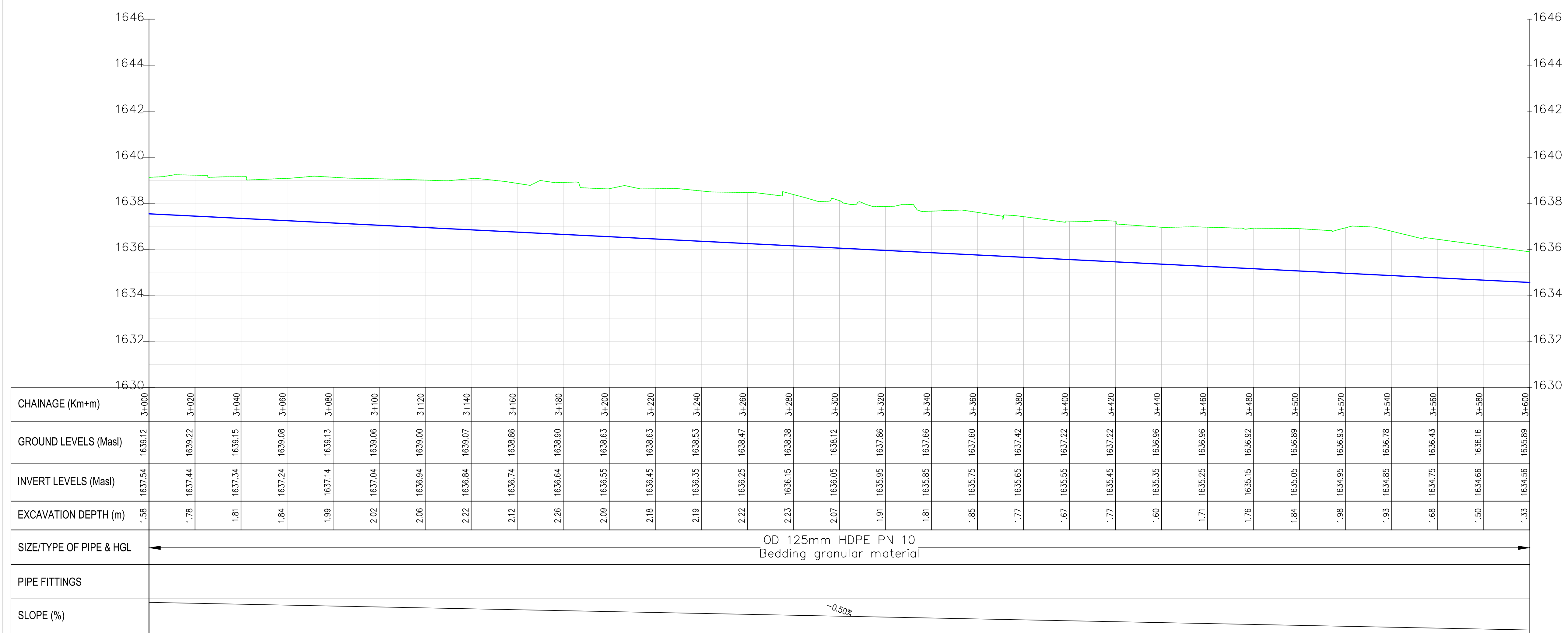
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LOMBALA

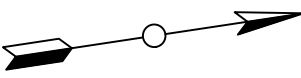
Designed by	CWM	Drawn by	SMN
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Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 5 OF 10	0 REV	



Oasis–Lombala PROFILE



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- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

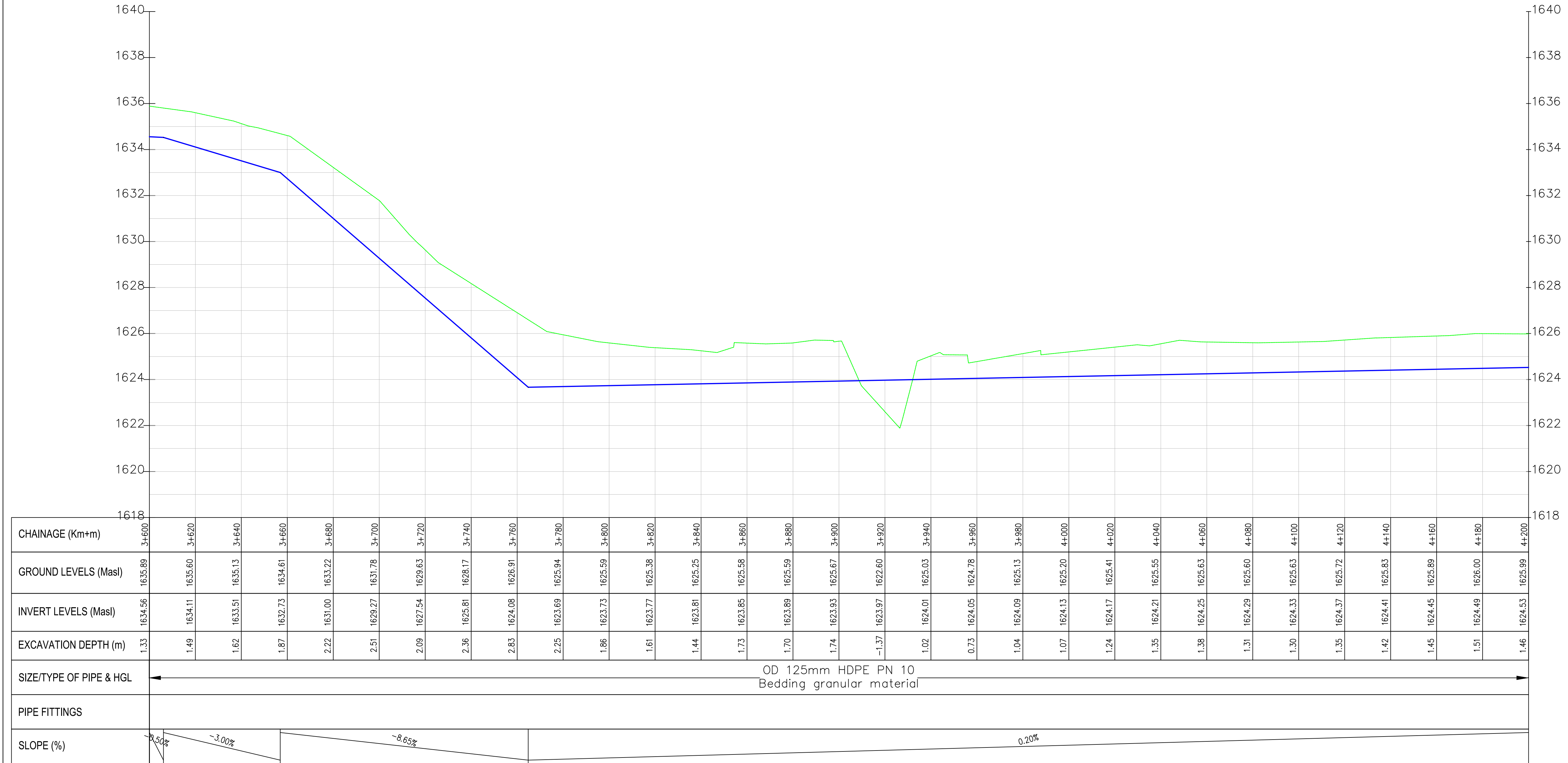
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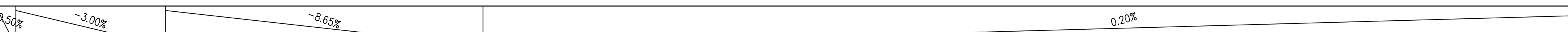
**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LOMBALA**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 6 OF 10	0 REV	

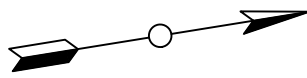


Oasis–Lombala PROFILE



CHAINAGE (Km+m)	3+600	3+620	3+640	3+660	3+680	3+700	3+720	3+740	3+760	3+780	3+800	3+820	3+840	3+860	3+880	3+900	3+920	3+940	3+960	3+980	4+000	4+020	4+040	4+060	4+080	4+100	4+120	4+140	4+160	4+180	4+200
GROUND LEVELS (Masl)	1635.89	1635.60	1635.13	1634.61	1633.22	1631.78	1629.63	1628.17	1626.91	1625.94	1625.59	1625.38	1625.25	1625.58	1625.59	1625.67	1622.60	1625.03	1624.78	1625.13	1625.20	1625.41	1625.55	1625.63	1625.60	1625.63	1625.72	1625.83	1625.89	1626.00	1625.99
INVERT LEVELS (Masl)	1634.56	1634.11	1633.51	1632.73	1631.00	1629.27	1627.54	1625.81	1624.08	1623.69	1623.73	1623.77	1623.81	1623.85	1623.89	1623.93	1623.97	1624.01	1624.05	1624.09	1624.13	1624.17	1624.21	1624.25	1624.29	1624.33	1624.37	1624.41	1624.45	1624.49	1624.53
EXCAVATION DEPTH (m)	1.33	1.49	1.62	1.87	2.22	2.51	2.09	2.36	2.83	2.25	1.86	1.61	1.44	1.73	1.70	1.74	-1.37	1.02	0.73	1.04	1.07	1.24	1.35	1.38	1.31	1.30	1.35	1.42	1.45	1.51	1.46
SIZE/TYPE OF PIPE & HGL	OD 125mm HDPE PN 10 Bedding granular material																														
PIPE FITTINGS																															
SLOPE (%)																															

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- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
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	BY			
	CHECKED			
	BY			
	CHECKED			

Client:


Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:


GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
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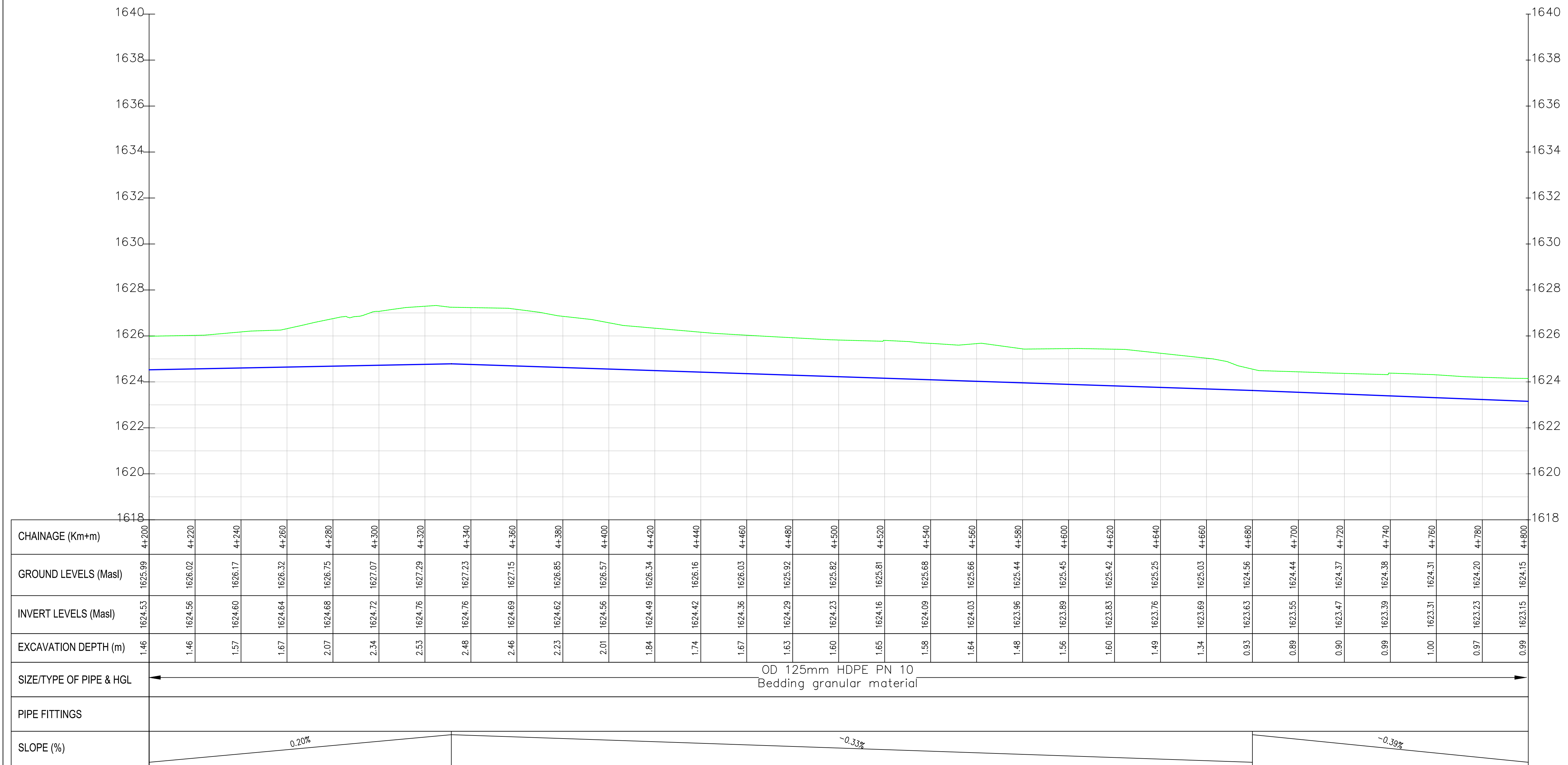
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LOMBALA**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 7 OF 10	0 REV	



Oasis-Lombala PROFILE



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PRELIMINARY ISSUE

Signed: Team Leader

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WaterFund
Financing the Water Sector

Financier:



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**SAOS - UPPER EMINING
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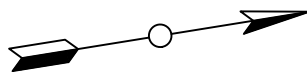
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PLAN AND PROFILE
OASIS LOMBALA**

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Scale	H = 1:1,000 V = 1:100	Date	November 2023
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0 STATUS	DRAWING NO. SHEET 8 OF 10	0 REV
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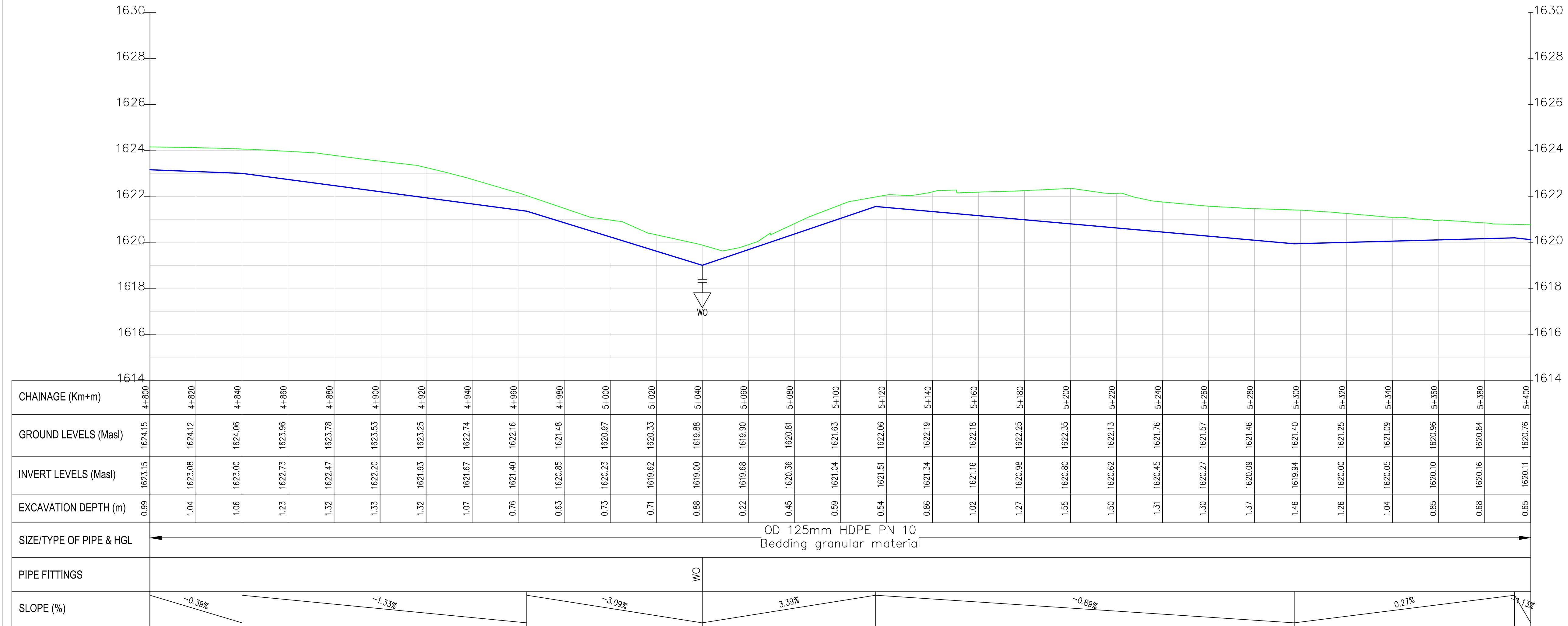
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PRELIMINARY ISSUE
Signed: Team Leader

Oasis-Lombala PROFILE



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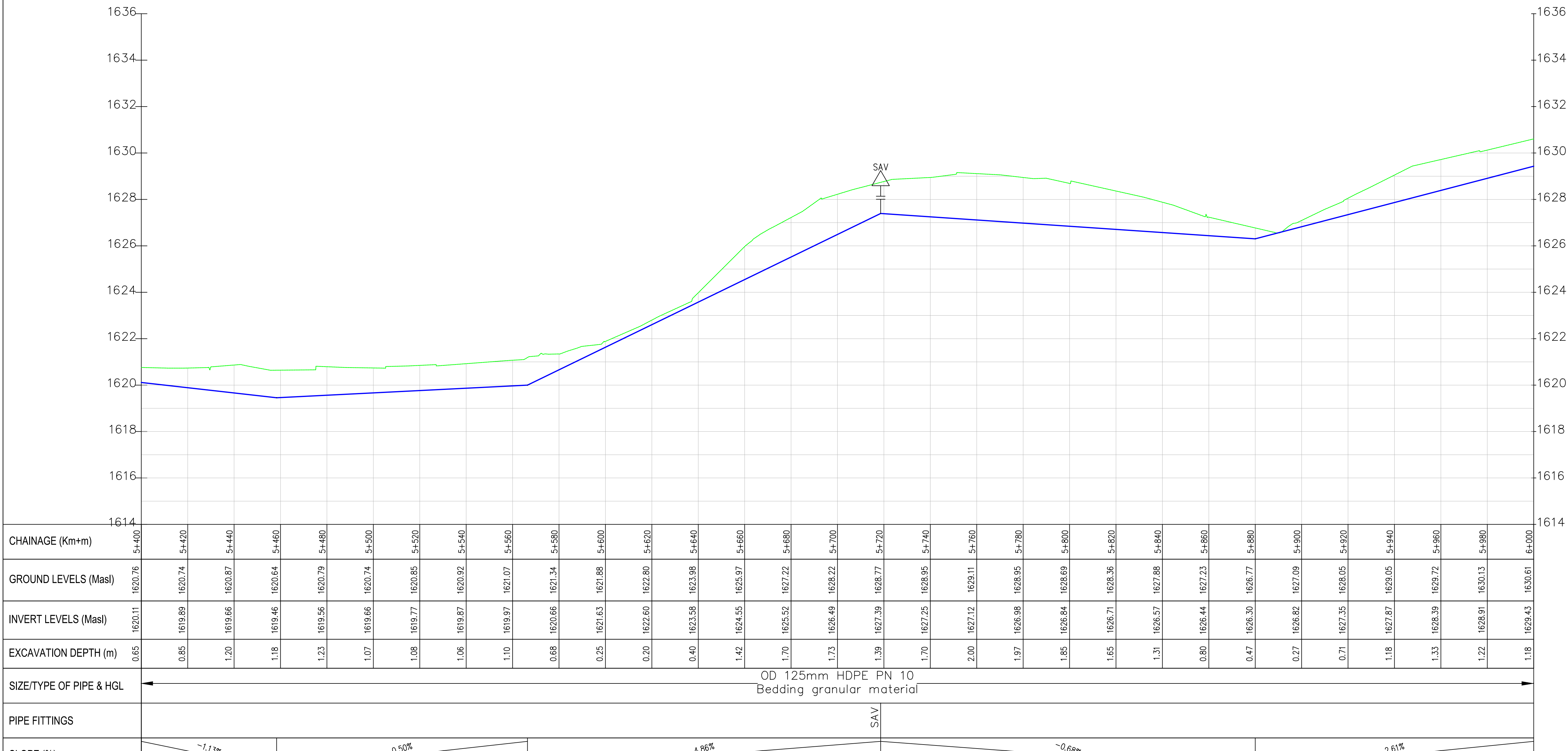
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**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LOMBALA**

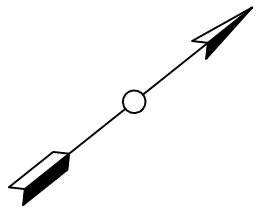
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Oasis—Lombala PROFILE



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UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

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PLAN AND PROFILE
OASIS LOMBALA**

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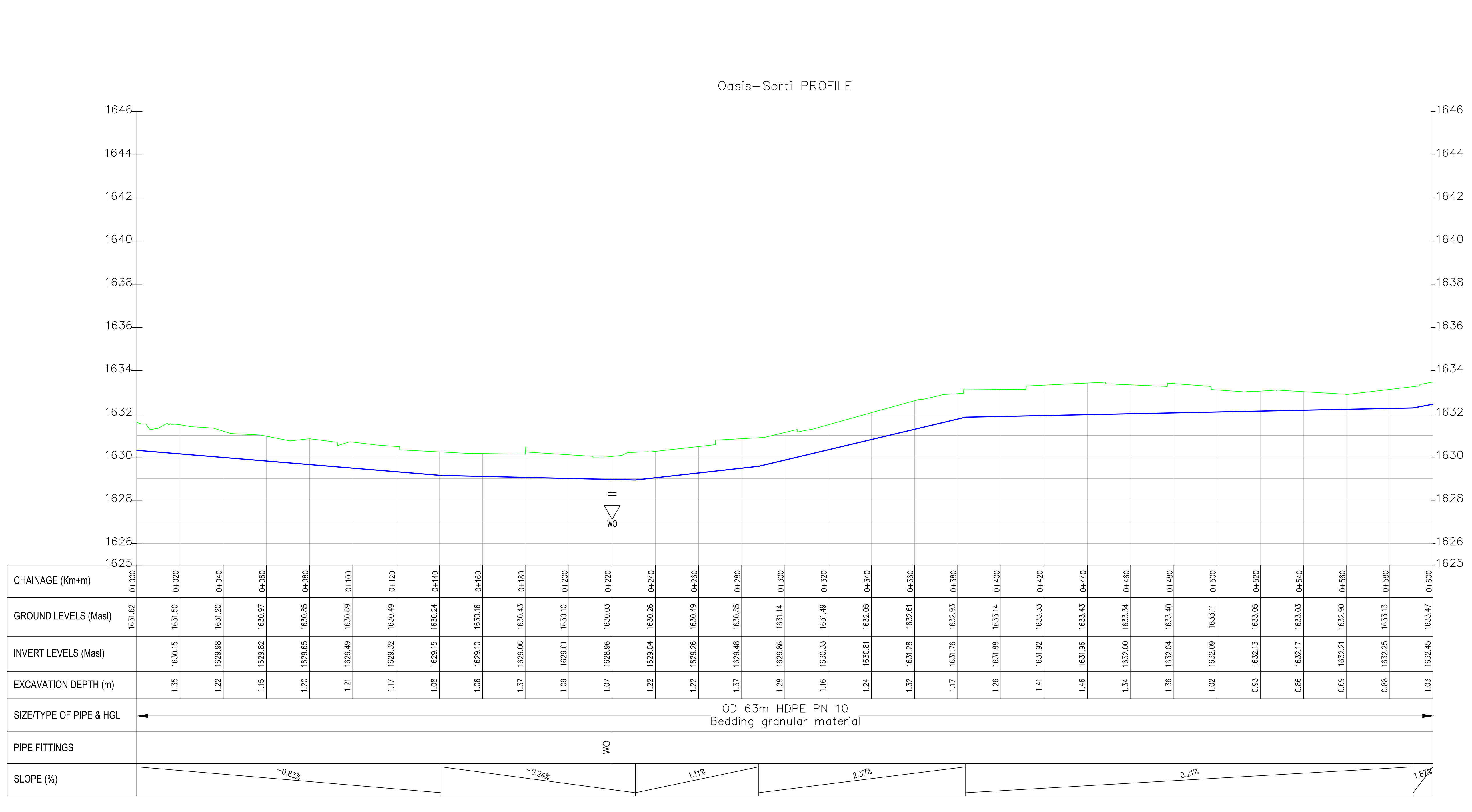


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Client:

WaterFund
Financing the Water Sector

Financier:

Project:

**SAOS - UPPER EMINING
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UNDER EDE-CPIRA
PROGRAMME IN BARINGO
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Design Consultants:

gath
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GATH CONSULTING ENGINEERS,
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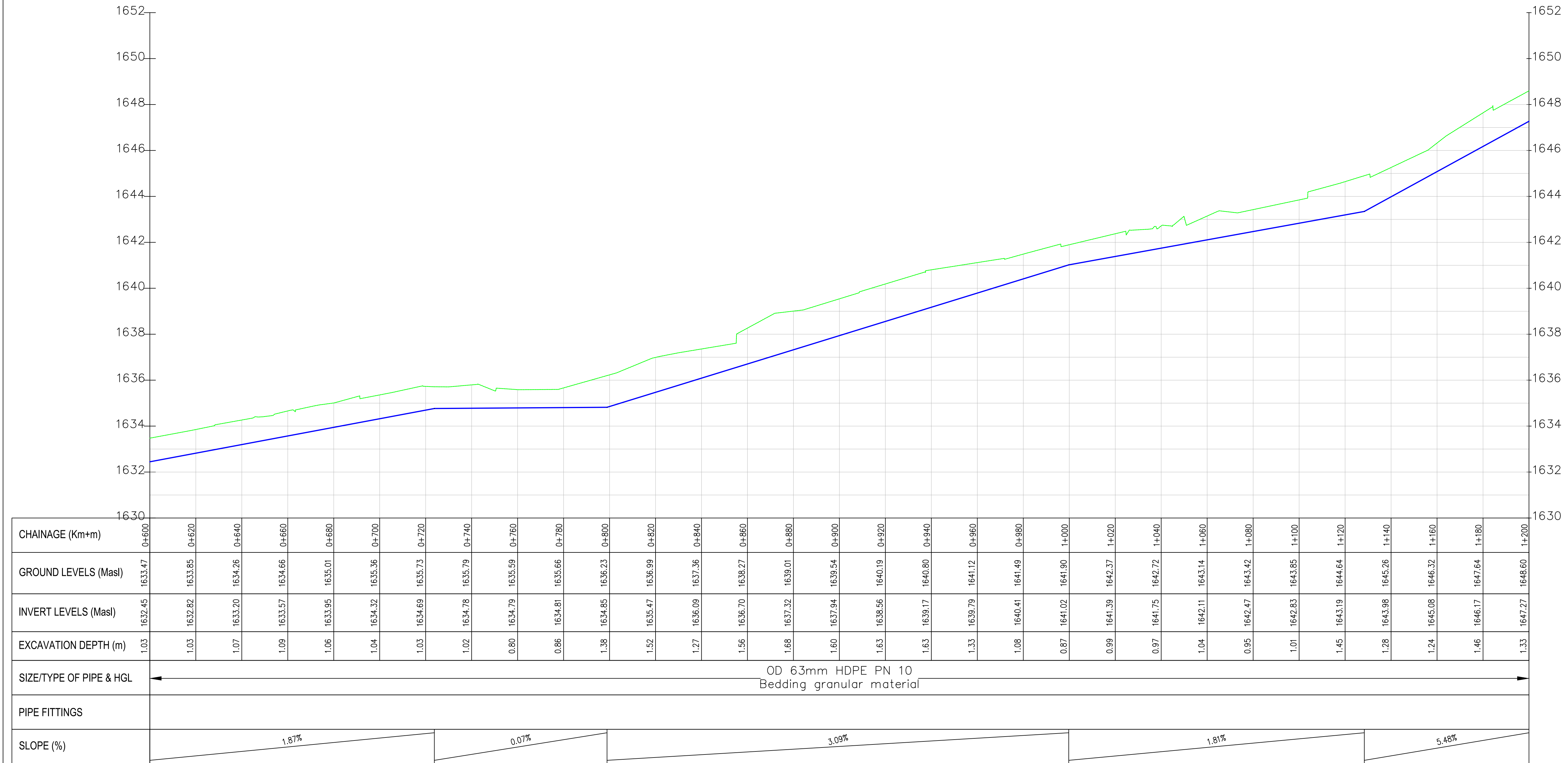
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS SORTI**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 4	0 REV	



Oasis-Sorti PROFILE



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Financing the Water Sector

Financier:



Project:

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UNDER EDE-CPIRA
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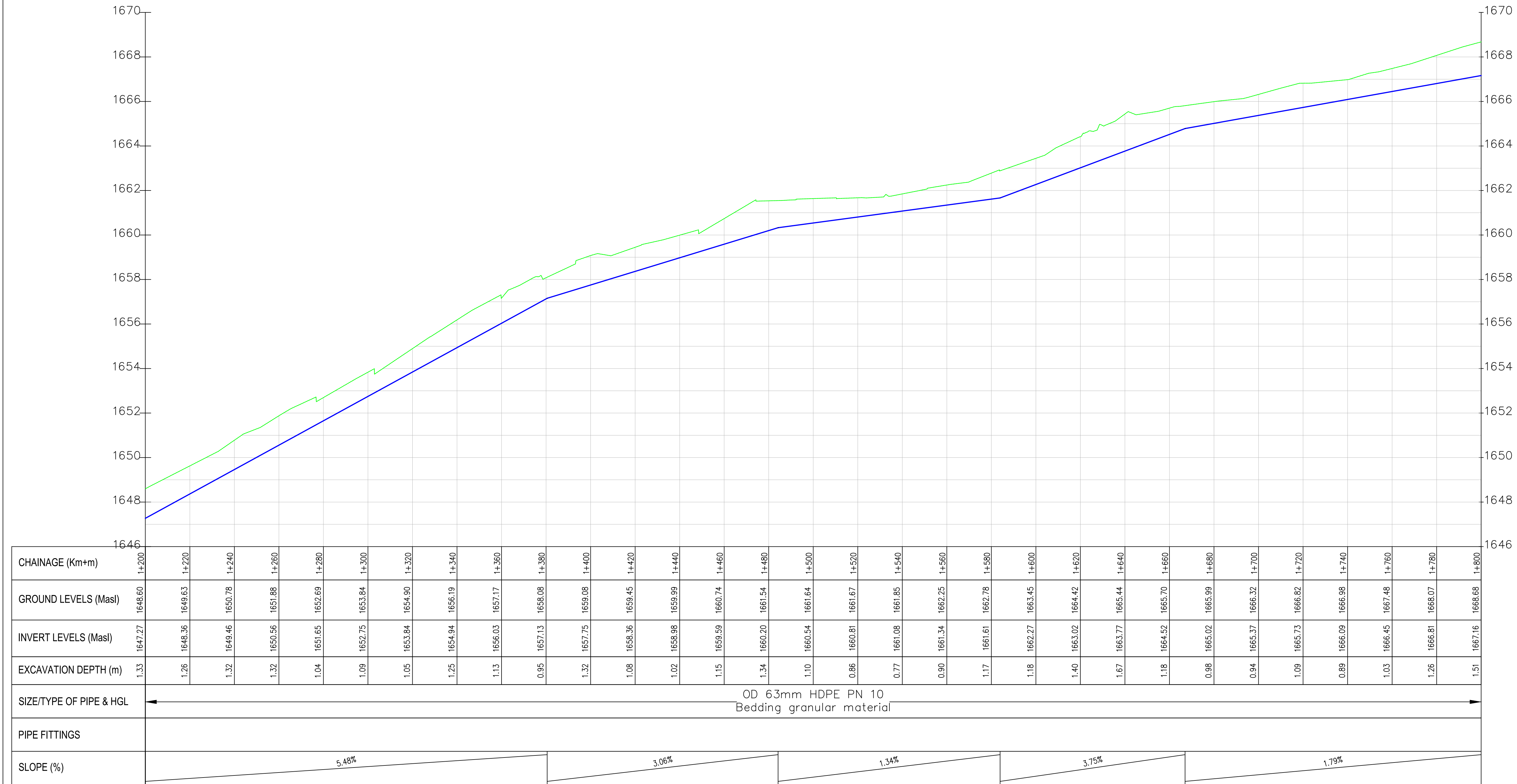
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PLAN AND PROFILE
OASIS SORTI**

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Scale	H = 1:1,000 V = 1:100	Date	November 2023
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0 STATUS	DRAWING NO. SHEET 2 OF 4	0 REV	



Oasis-Sorti PROFILE



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PRELIMINARY ISSUE
Signed: Team Leader

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Client:



Financing the Water Sector

Financier:



Project:

SAOS - UPPER EMINING
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UNDER EDE-CPIRA
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COUNTY

Design Consultants:

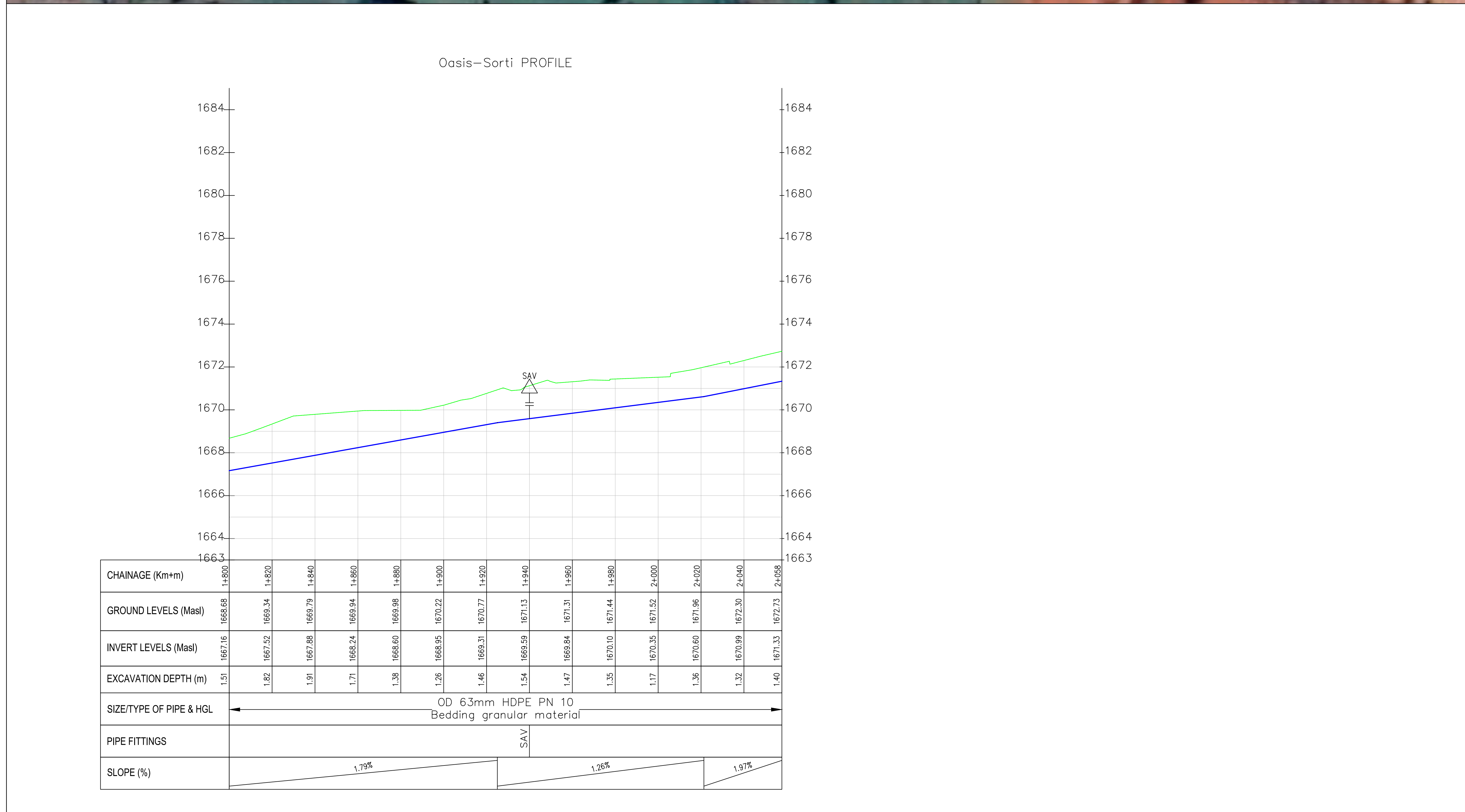


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Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS SORTI

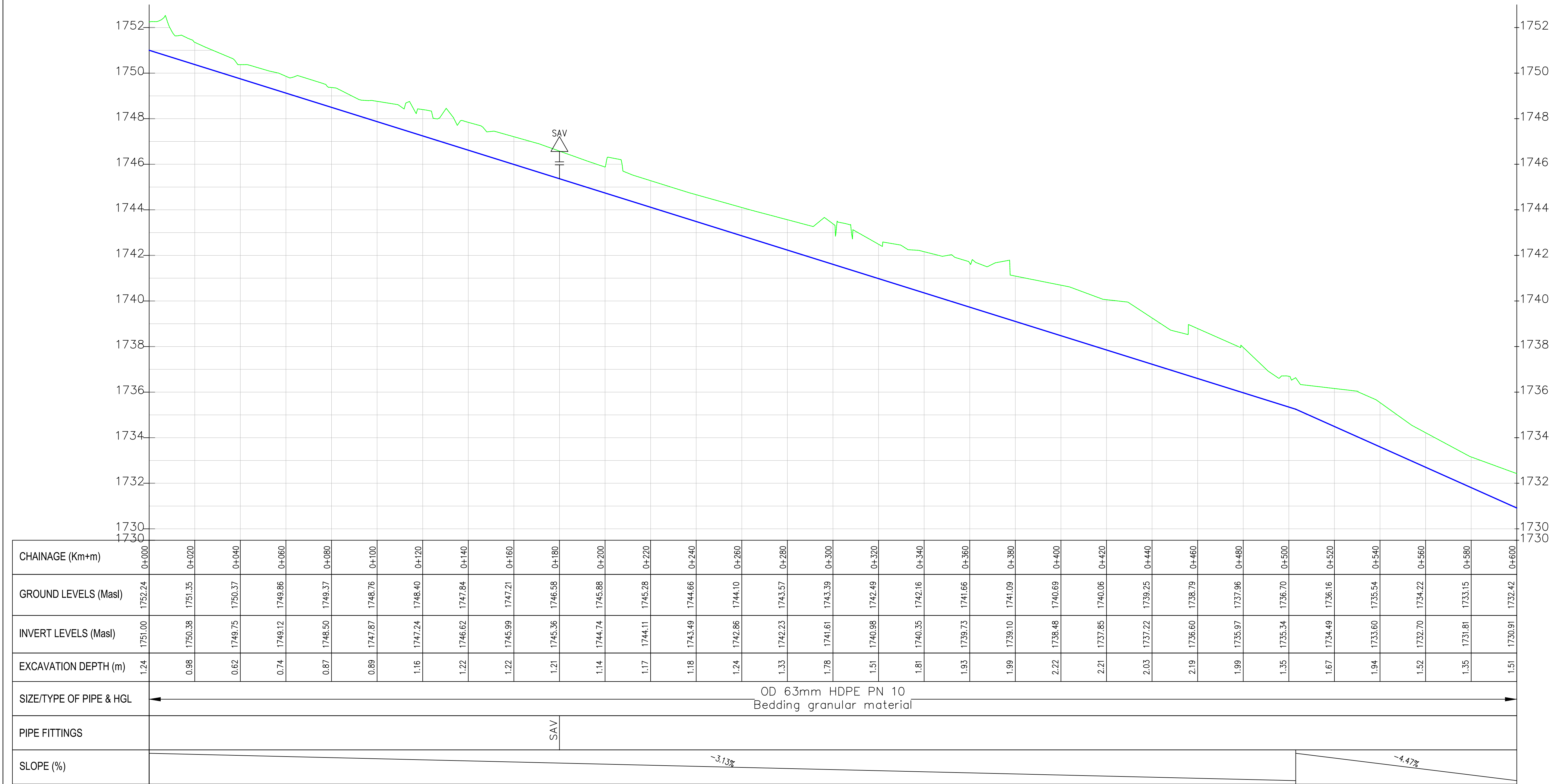
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0 STATUS	DRAWING NO. SHEET 3 OF 4	0 REV	



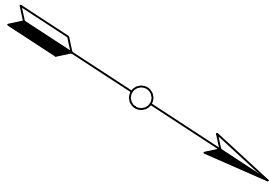
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Saos-Kamaratim PROFILE



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 4. PRECISE ROUTES TO BE DETERMINED ON SITE.



- LEGEND:
- EXISTING GROUND PROFILE
 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
		BY CHECKED			
		BY CHECKED			
		BY CHECKED			
		BY CHECKED			

Client:

Financier:

Project:
**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, 00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SAOS KAMARATIM**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
SMN STATUS	DRAWING NO. SHEET 1 OF 6		0 REV



NOTES:

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LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

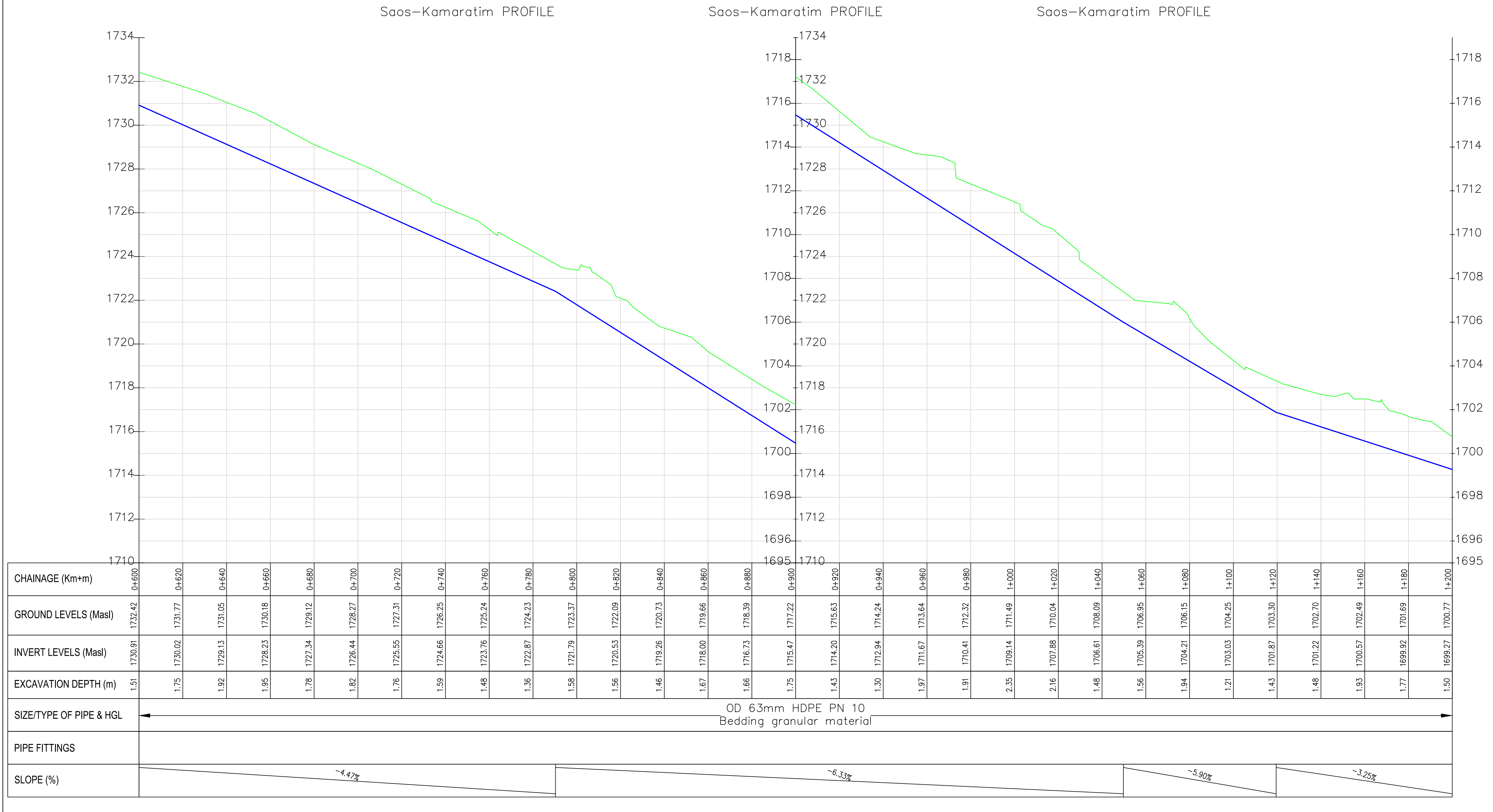
Design Consultants:

gath
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
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Drawing Title:

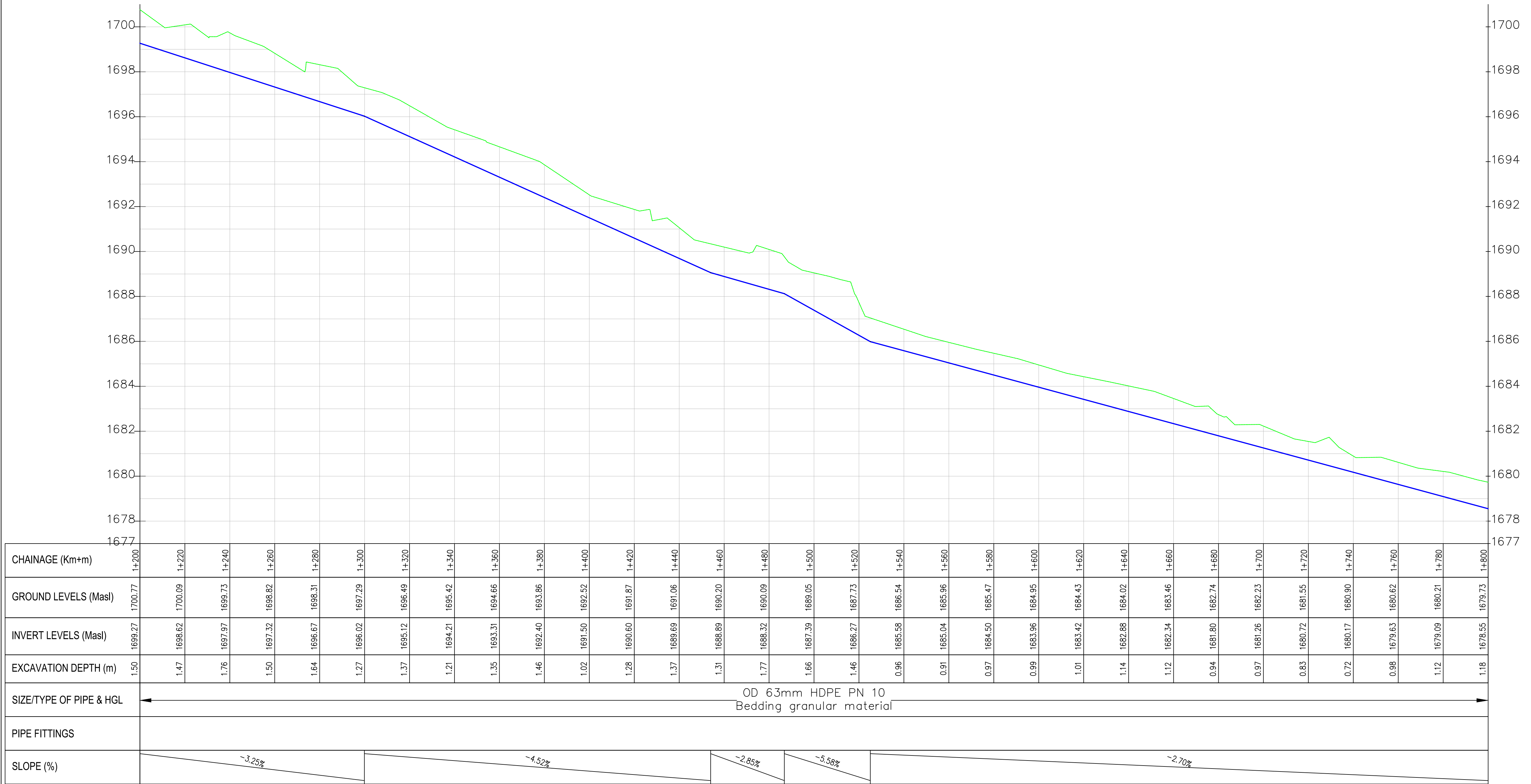
**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SAOS KAMARATIM**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 2 OF 6	0 REV	



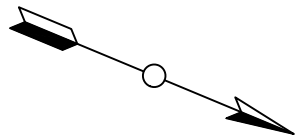


Saos–Kamaratim PROFILE



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LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
		BY			
		CHECKED			
		BY			
		CHECKED			
		BY			
		CHECKED			
		BY			
		CHECKED			

Client:



Financing the Water Sector

Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:



GATH CONSULTING ENGINEERS,
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EMAIL : gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SAOS KAMARATIM

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 3 OF 6	0 REV	



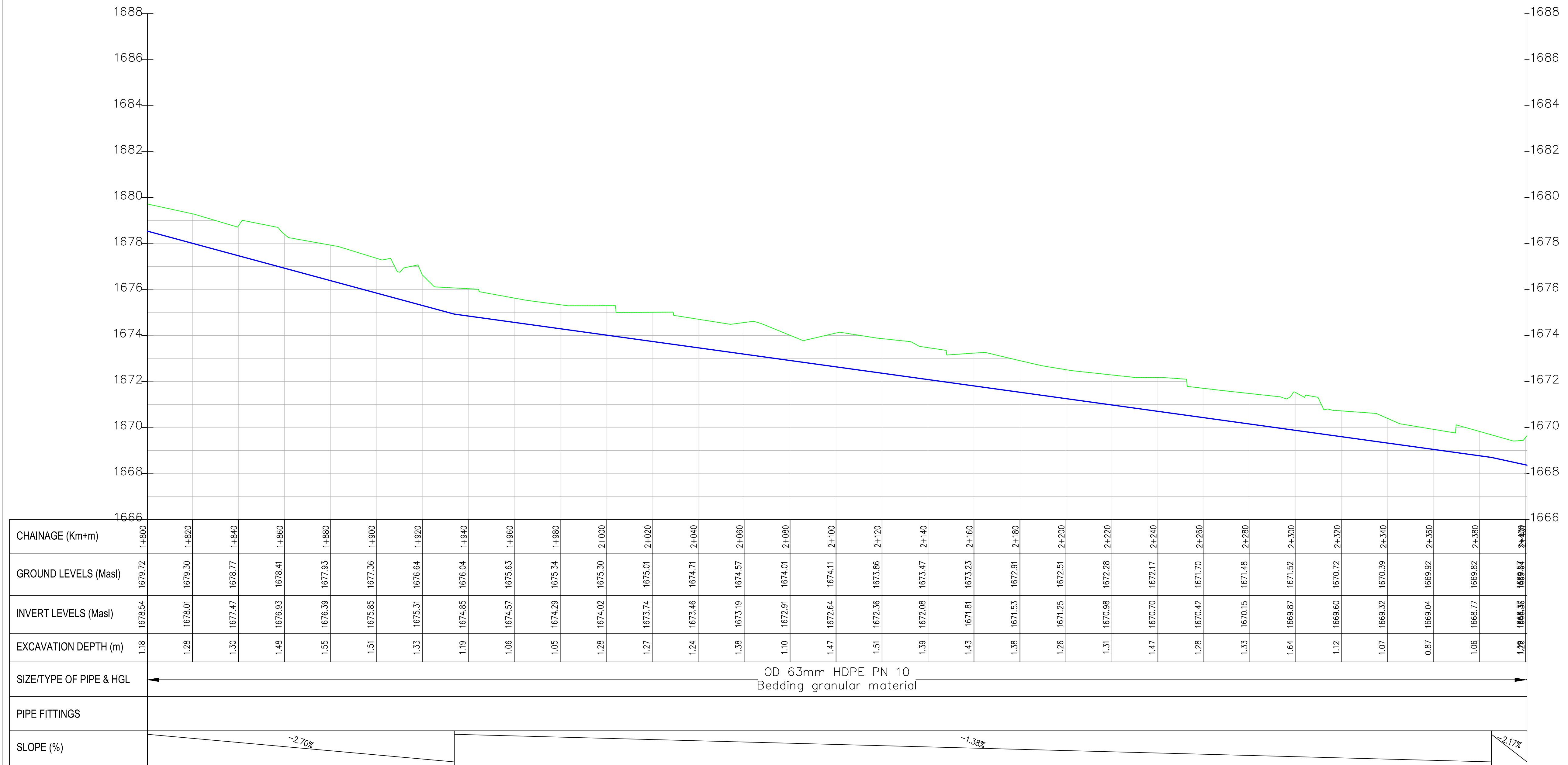
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- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

Saos-Kamaratim PROFILE



PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

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EMAIL : gce@gathkenya.com

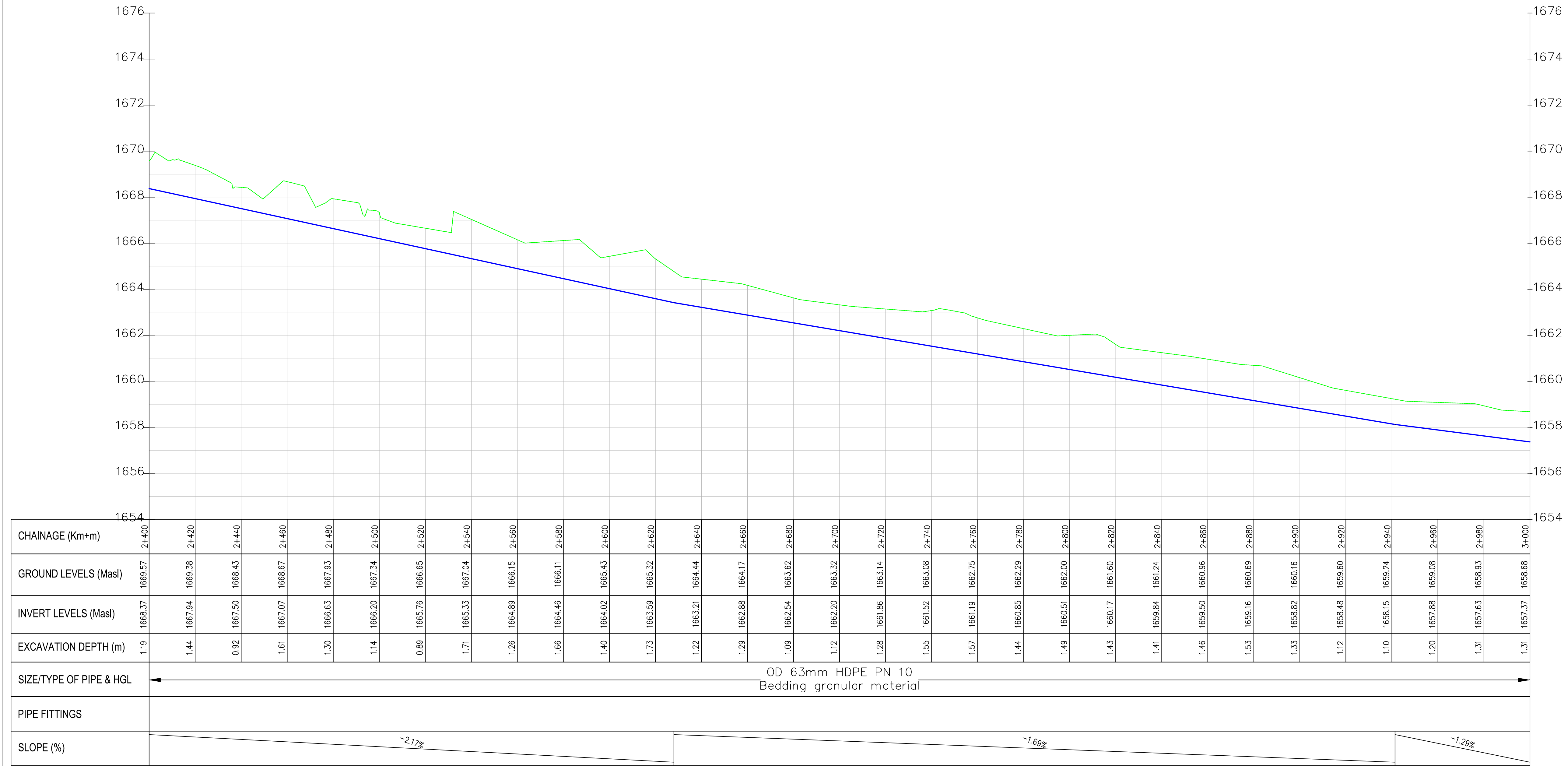
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SAOS KAMARATIM**

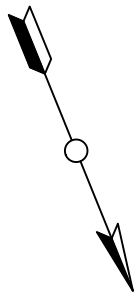
Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 4 OF 6		0 REV



Saos-Kamaratim PROFILE



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 - WATER LINES (EXISTING)
 - WATER LINES (PROPOSED)
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PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
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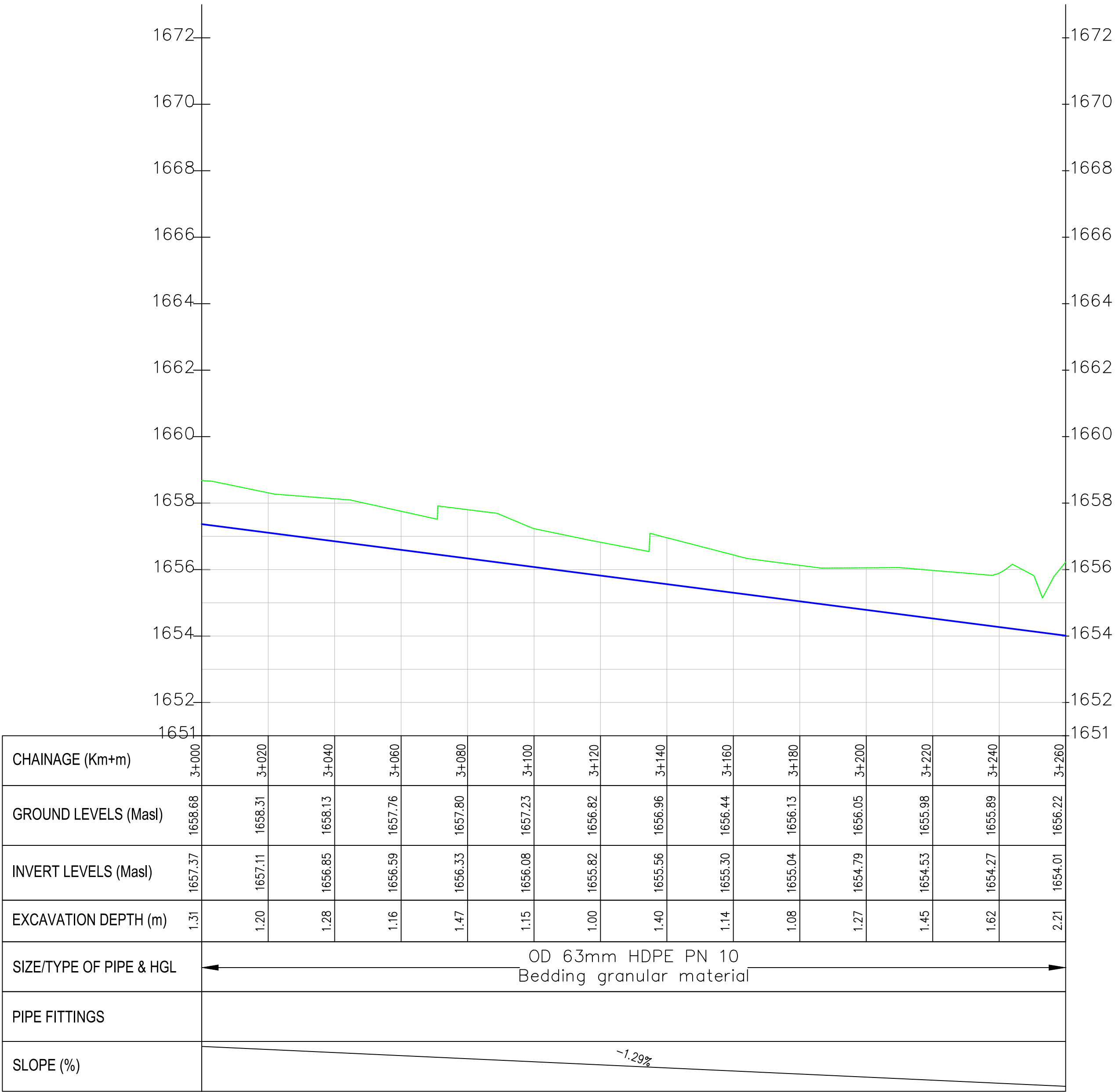
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SAOS KAMARATIM**

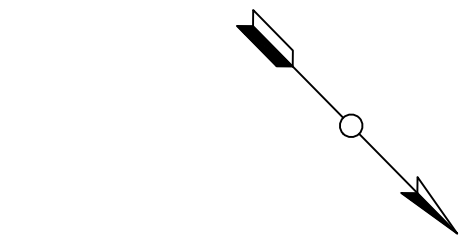
Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 5 OF 6	0 REV	



Saos-Kamaratim PROFILE



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Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			

Client:

Financier:

Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
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P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SAOS KAMARATIM

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING No. SHEET 6 OF 6	0 REV	



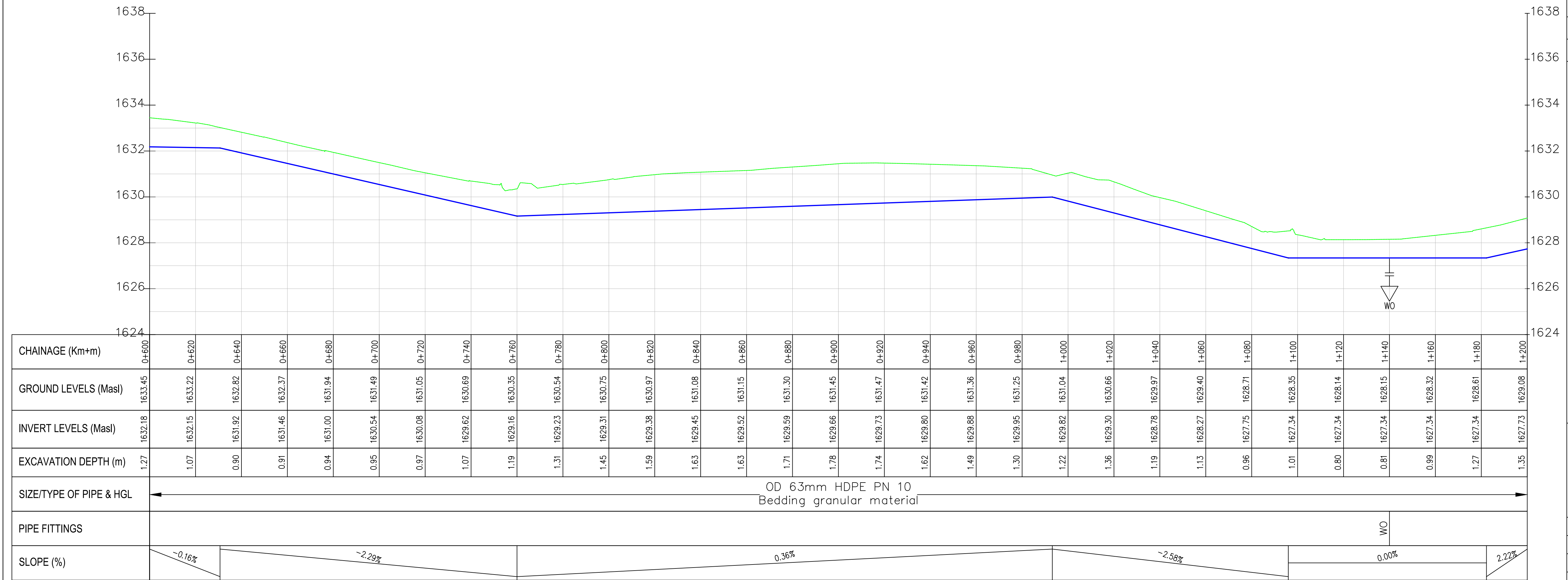
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- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

Sorti-Kamalanget PROFILE



Client:

WaterFund
Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL: gce@gathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SORTI KAMALANGET**

Designed by CWM Drawn by SMN

Checked by EBO Approved by KNM

Scale H = 1:1,000
V = 1:100 Date November 2023

Job No. WSTF/23 ACAD File: Saos

0 STATUS DRAWING NO. SHEET 2 OF 5 0 REV



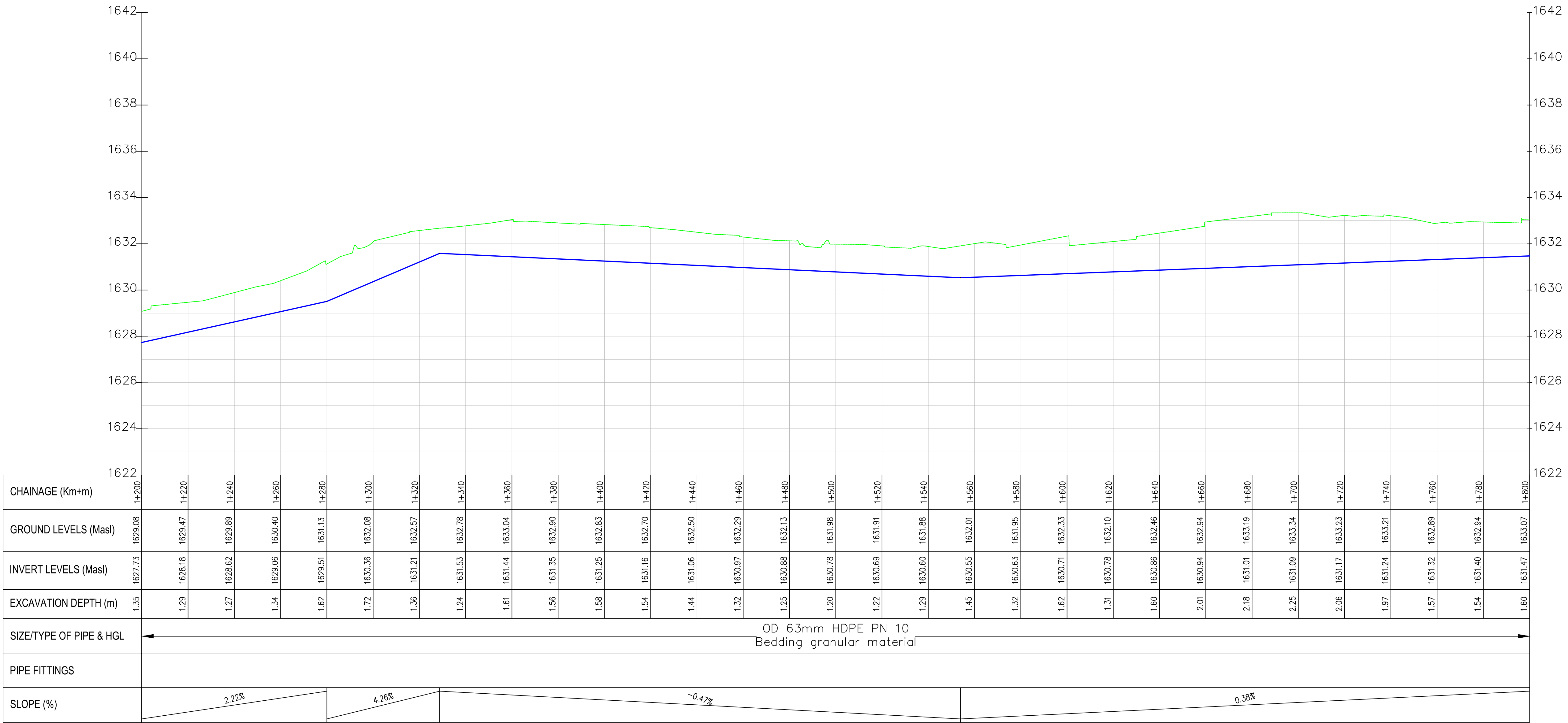
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Sorti–Kamalanget PROFILE



PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
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Client:

WaterFund

Financing the Water Sector

Financier:

Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

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EMAIL : gce@gathkenya.com

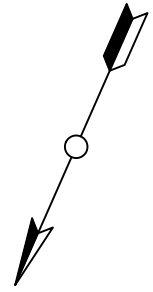
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SORTI KAMALANGET

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 3 OF 5		0 REV

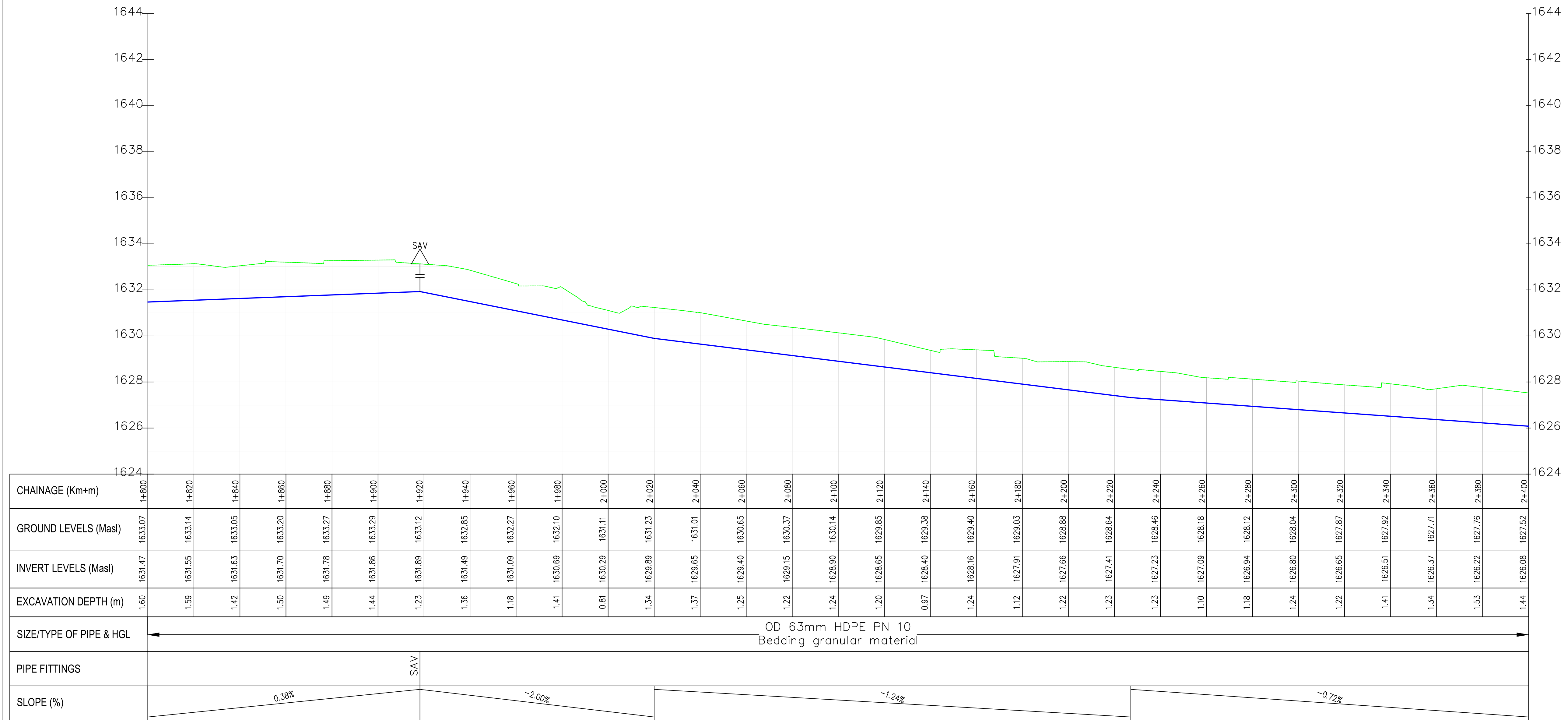


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 - WATER LINES (EXISTING)
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 - RIVER/STREAM

Sorti-Kamalanget PROFILE



PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
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Client:

Financing the Water Sector

Financier:


Project:
**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

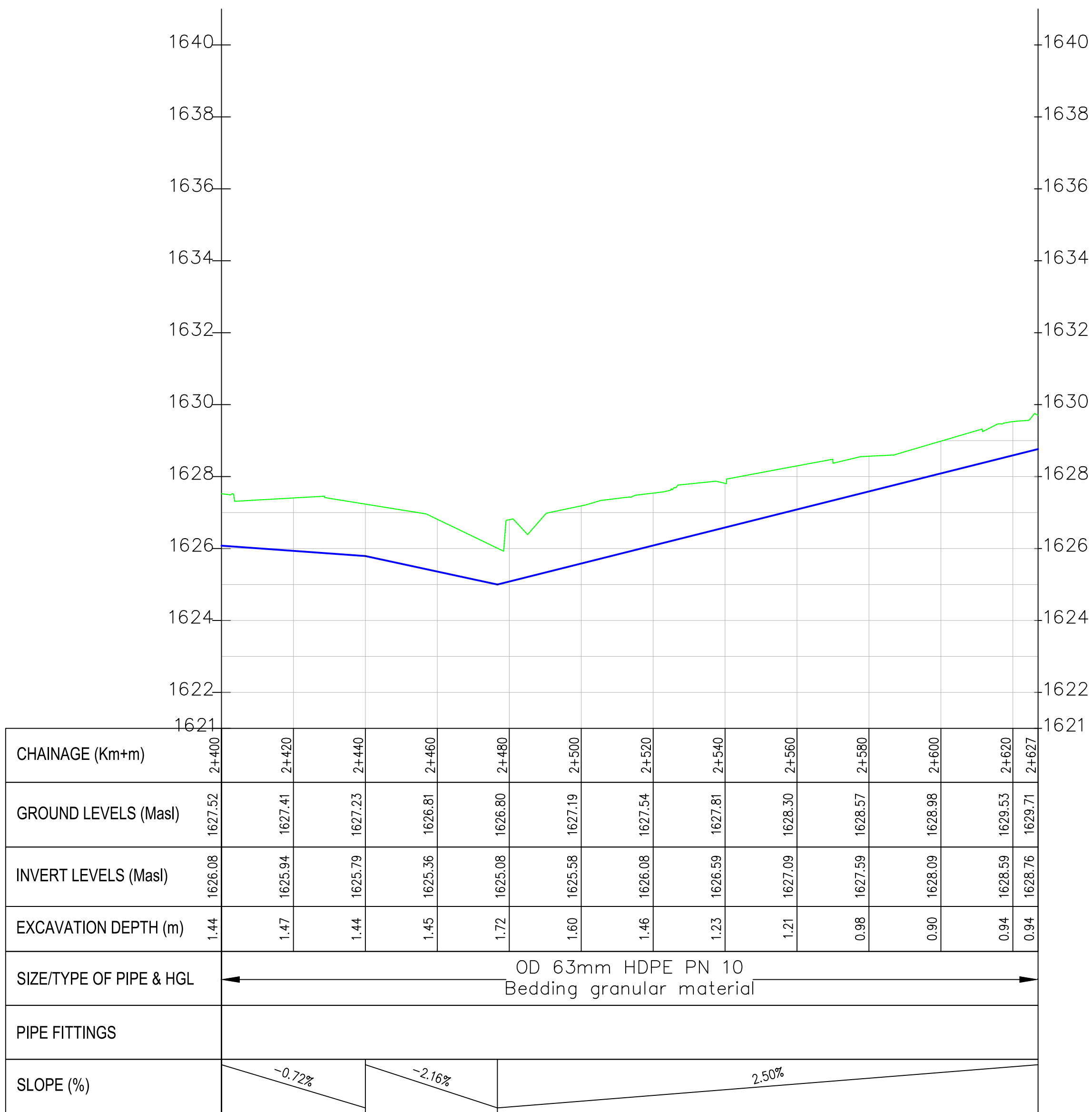
GATH CONSULTING ENGINEERS,
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P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:
**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SORTI KAMALANGET**

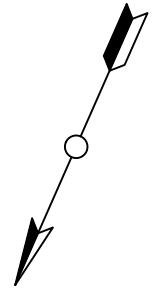
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Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING No. SHEET 4 OF 5		0 REV



Sorti-Kamalanget PROFILE



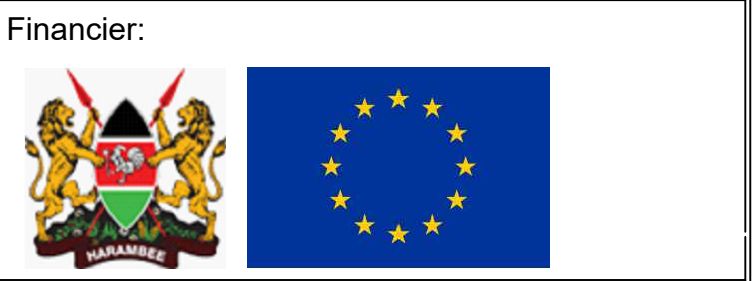
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 - WATER LINES (EXISTING)
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 - RIVER/STREAM

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

gath CONSULTING ENGINEERS,
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KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
SORTI KAMALANGET

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 5 OF 5		0 REV



NOTES:

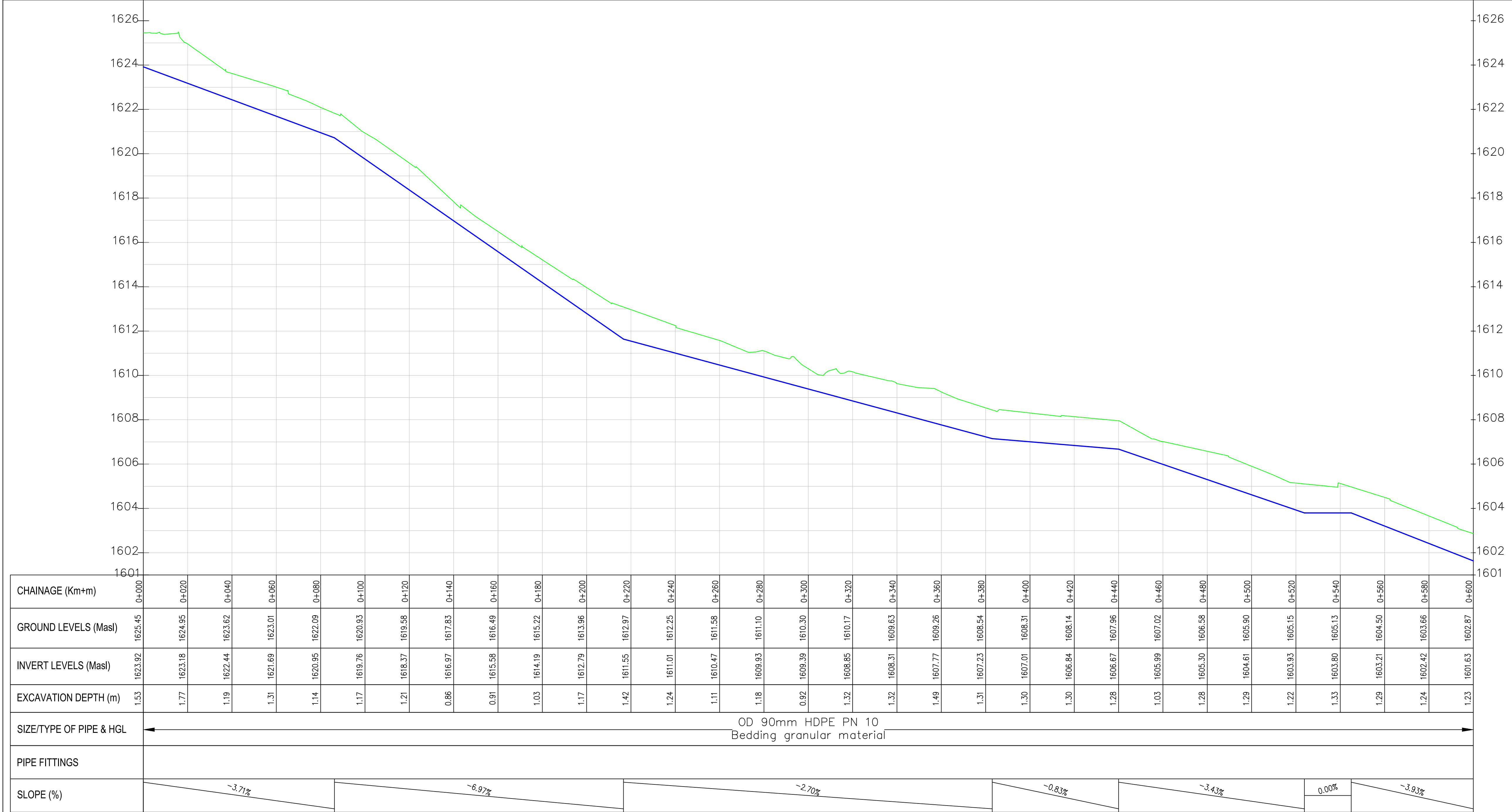
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LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
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- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader



Client:

WaterFund
Financing the Water Sector

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath
CONSULTING ENGINEERS
GATH CONSULTING ENGINEERS,
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WAY,
P.O BOX 14279, 00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL: gath@kathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET RETURN**

Designed by CWM Drawn by SMN
Checked by EBO Approved by KNM
Scale H = 1:1,000 V = 1:100 Date November 2023
Job No. WSTF/23 ACAD File: Saos
0 STATUS DRAWING NO. SHEET 1 OF 7 0 REV



NOTES:

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LEGEND:

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- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
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	CHECKED			
	BY			
	CHECKED			
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	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath
GATH CONSULTING ENGINEERS,
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KENYA TEL:254-020-4441473/4444837
EMAIL: gce@gathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET RETURN**

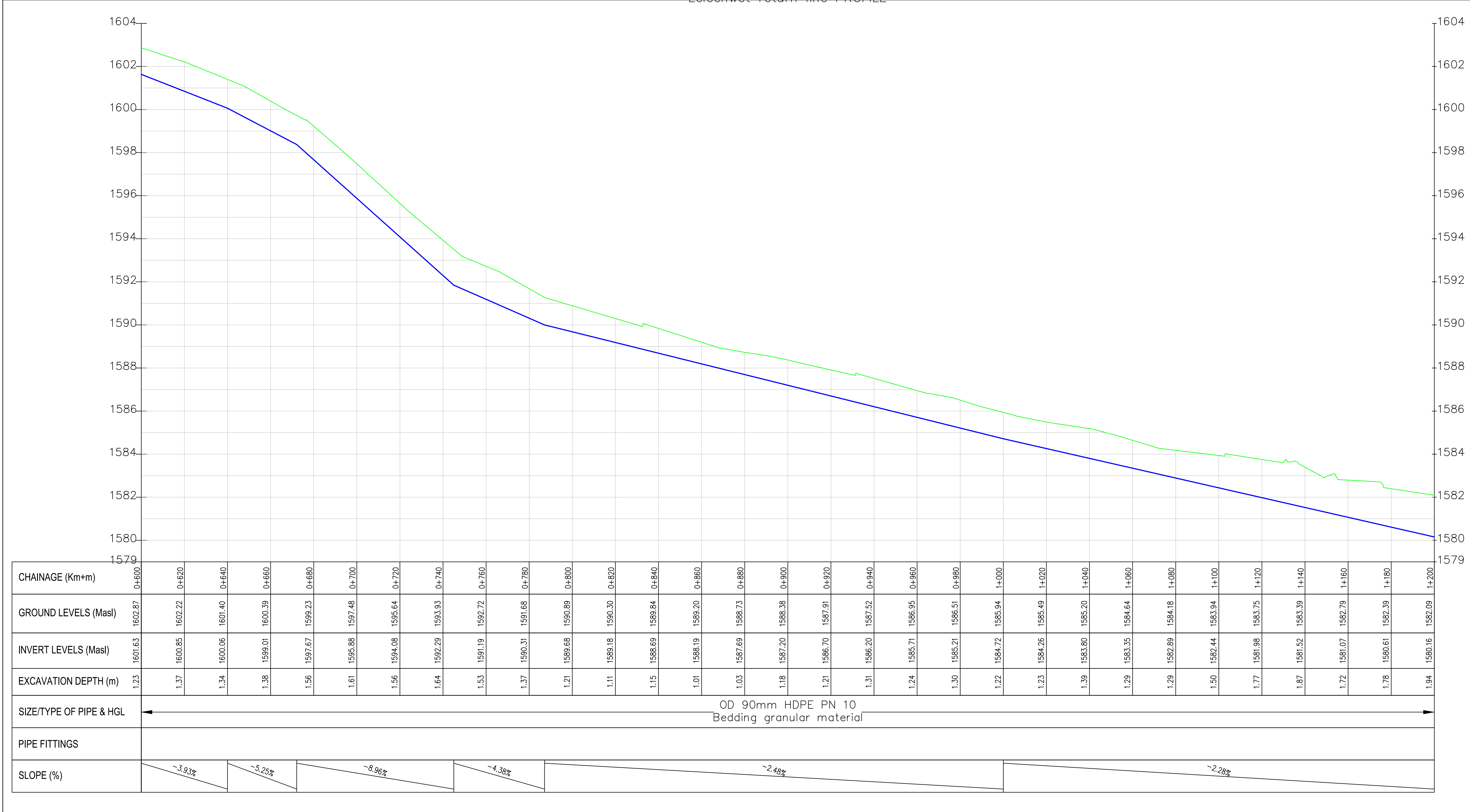
Designed by CWM Drawn by SMN

Checked by EBO Approved by KNM

Scale H = 1:1,000 V = 1:100 Date November 2023

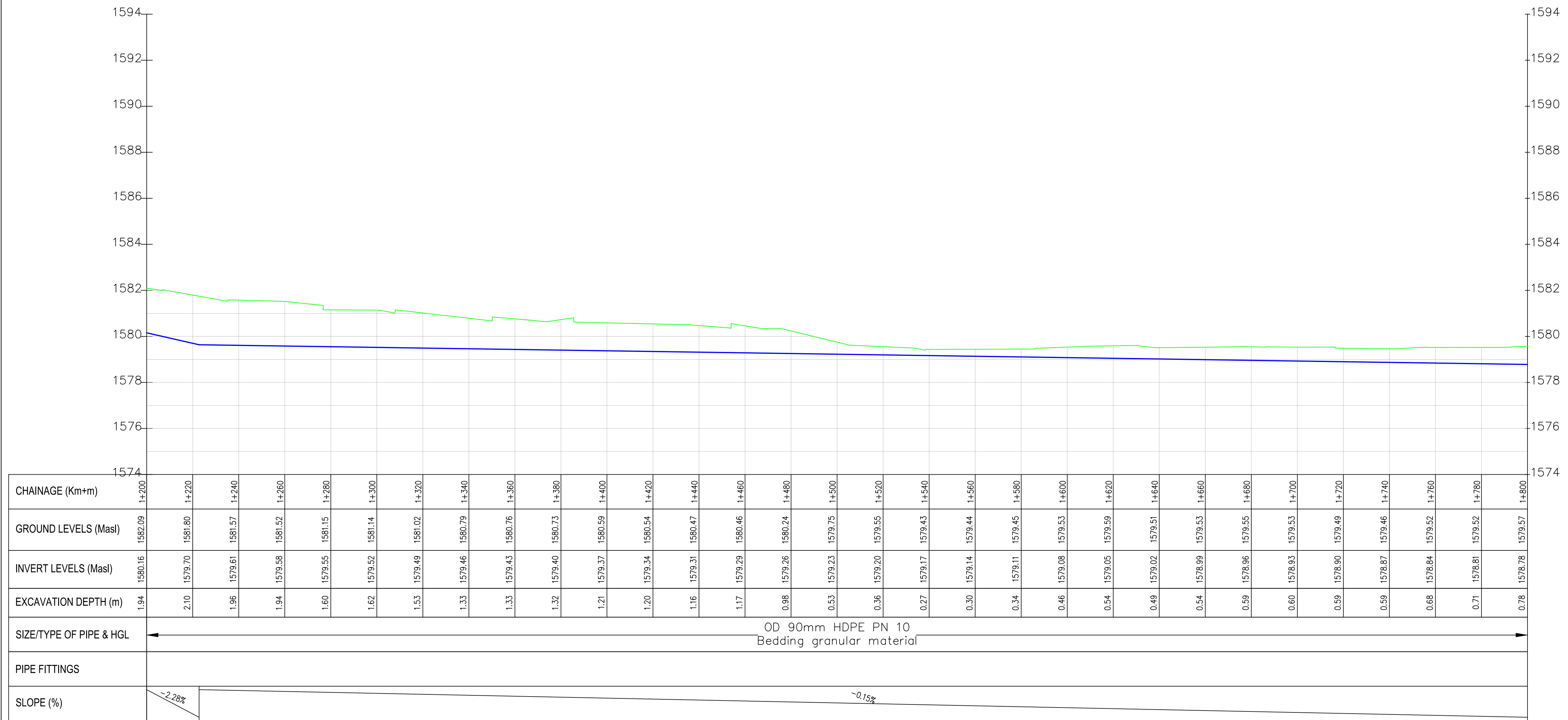
Job No. WSTF/23 ACAD File: Saos

0 STATUS DRAWING NO. SHEET 2 OF 7 0 REV





Lelechwet return line PROFILE



NOTES:

- ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
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- PRECISE ROUTES TO BE DETERMINED ON SITE.

LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
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	BY			
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	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

gath
CONSULTING ENGINEERS
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, 00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL: gce@gathkenya.com

Drawing Title:

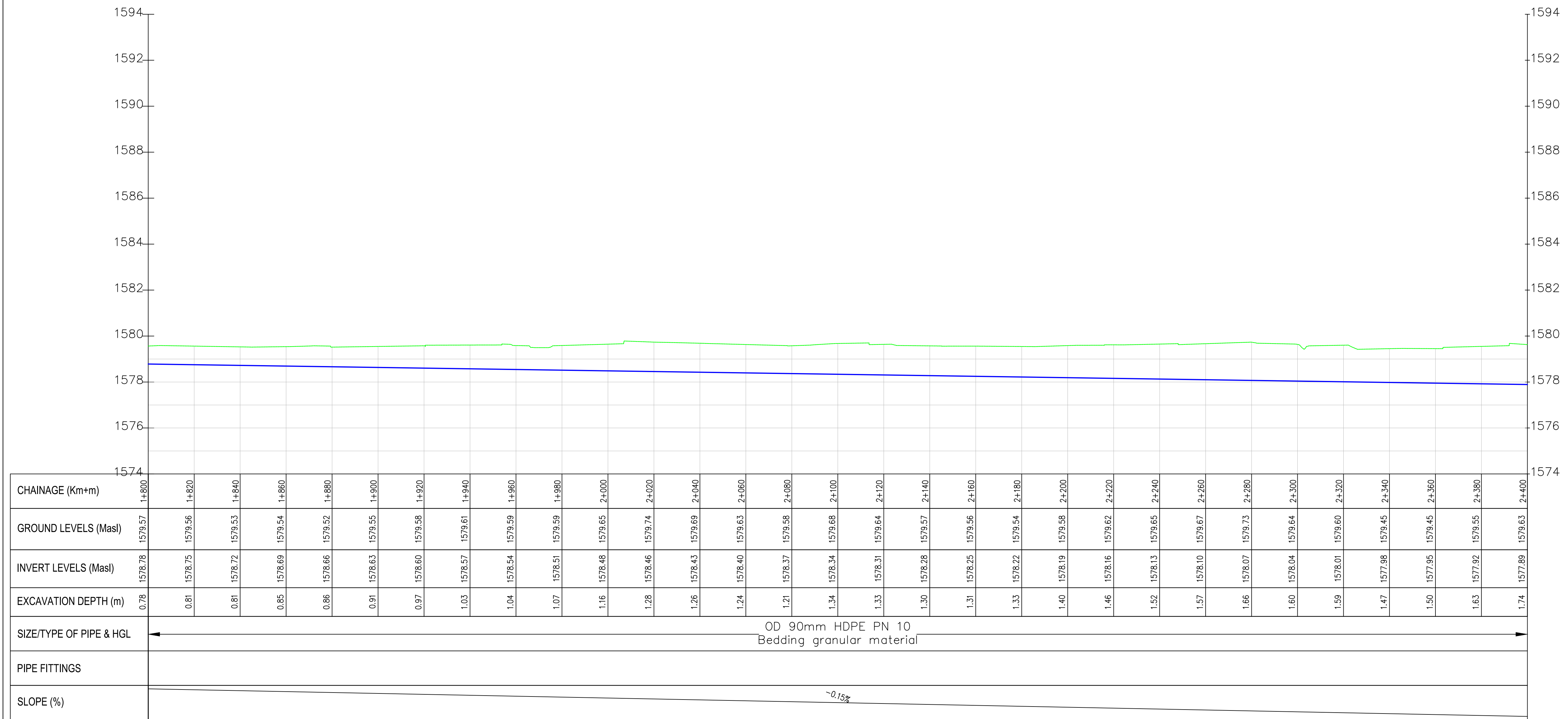
**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET RETURN**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos

0	DRAWING NO. SHEET 3 OF 7	0
STATUS		REV



Lelechwet return line PROFILE



NOTES:

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PRELIMINARY ISSUE

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	CHECKED			
	BY			
	CHECKED			

Client:

WaterFund
Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

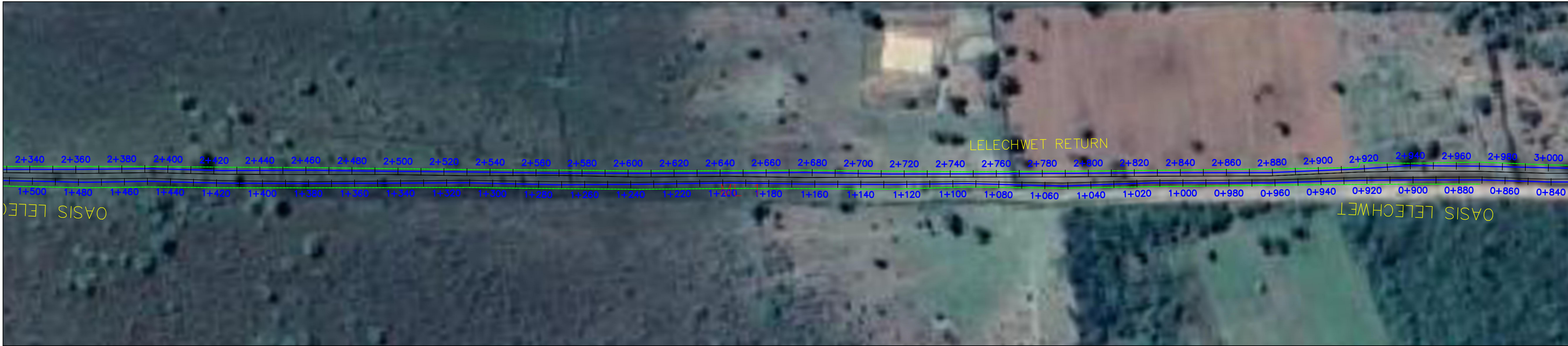
gath
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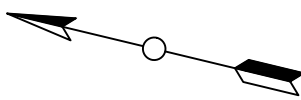
**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET RETURN**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos

0	DRAWING NO. SHEET 4 OF 7	0
STATUS		REV

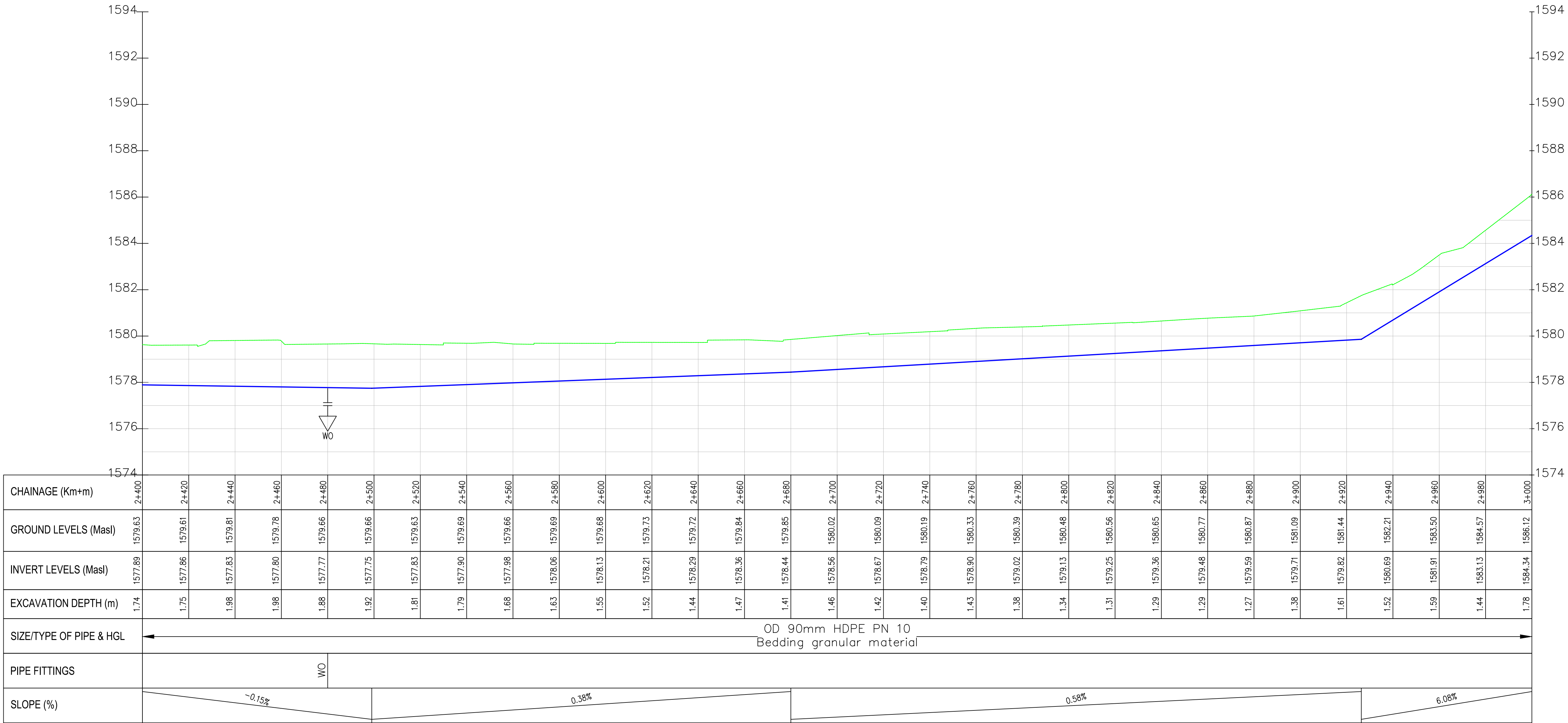


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Lelechwet return line PROFILE



PRELIMINARY ISSUE
Signed: Team Leader

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	BY			
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**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

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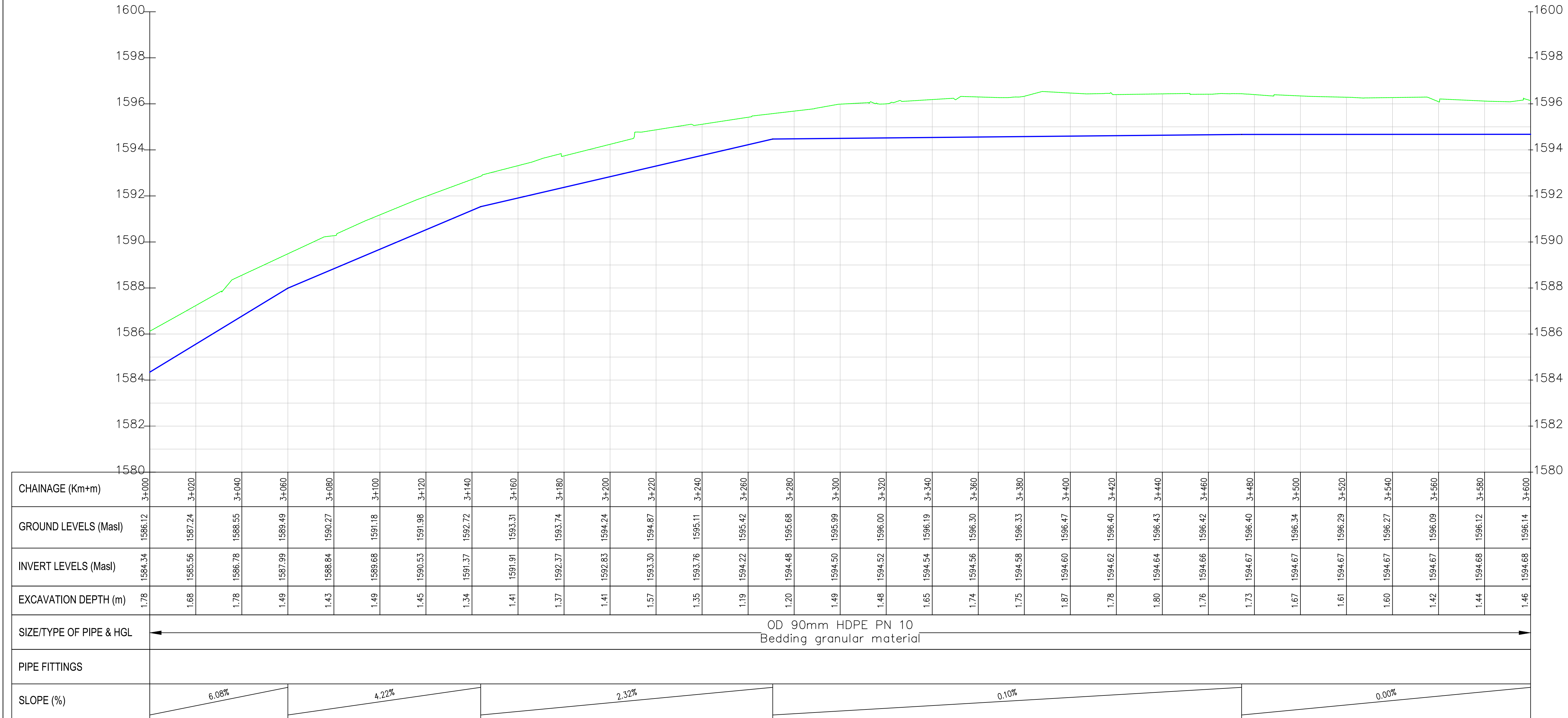
Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET RETURN**

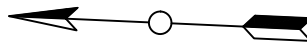
Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 5 OF 7	0 REV	



Lelechwet return line PROFILE



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PRELIMINARY ISSUE
Signed: Team Leader

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Client:

Financier:

Project:

SAOS - UPPER EMINING
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UNDER EDE-CPIRA
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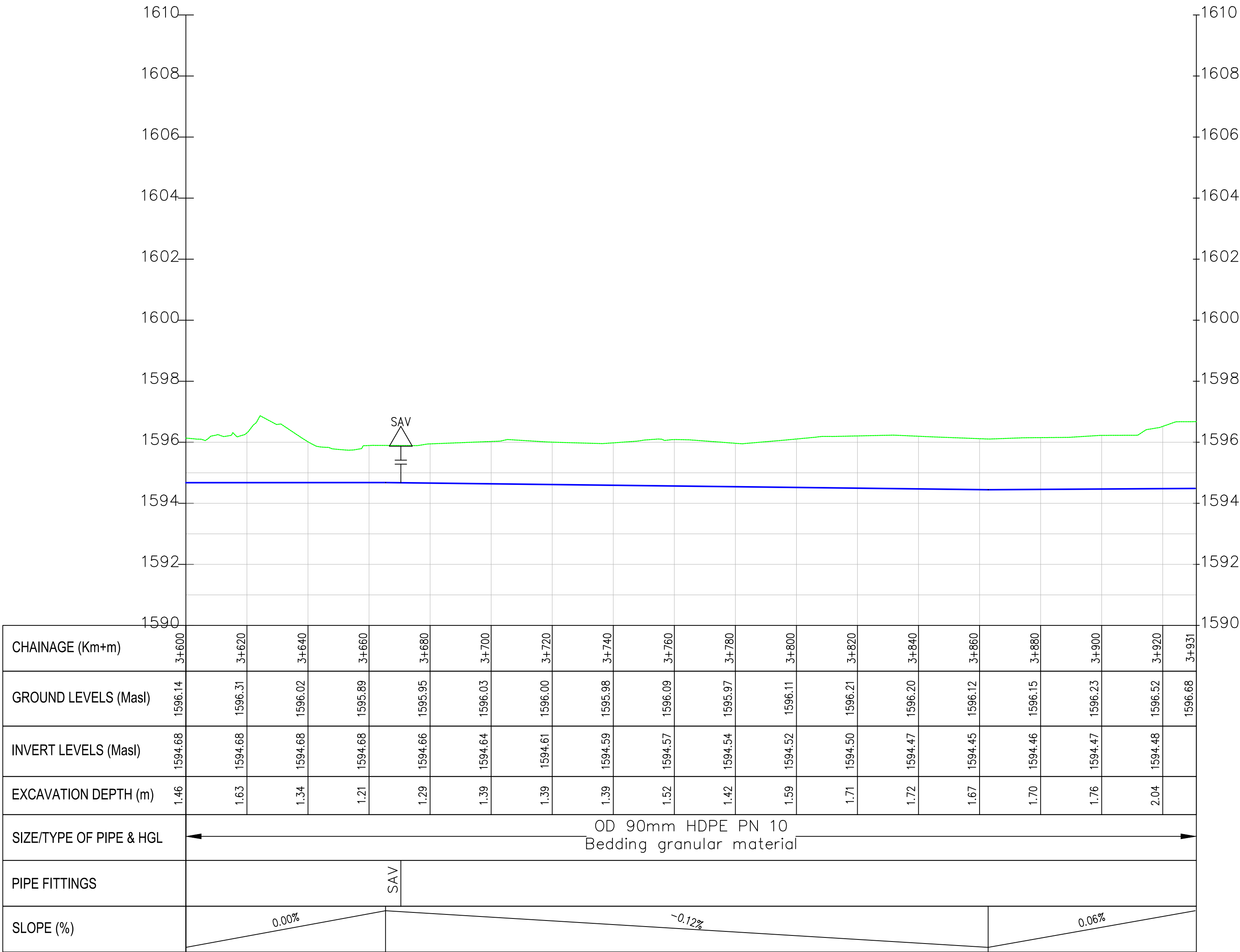
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET RETURN

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 6 OF 7		0 REV



Lelechwet return line PROFILE



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PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
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	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			

Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:



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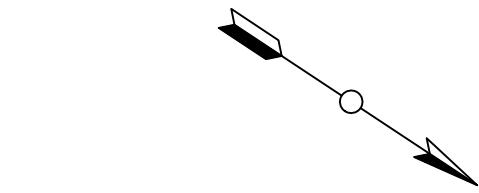
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
LELECHWET RETURN

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING No. SHEET 7 OF 7	0 REV	



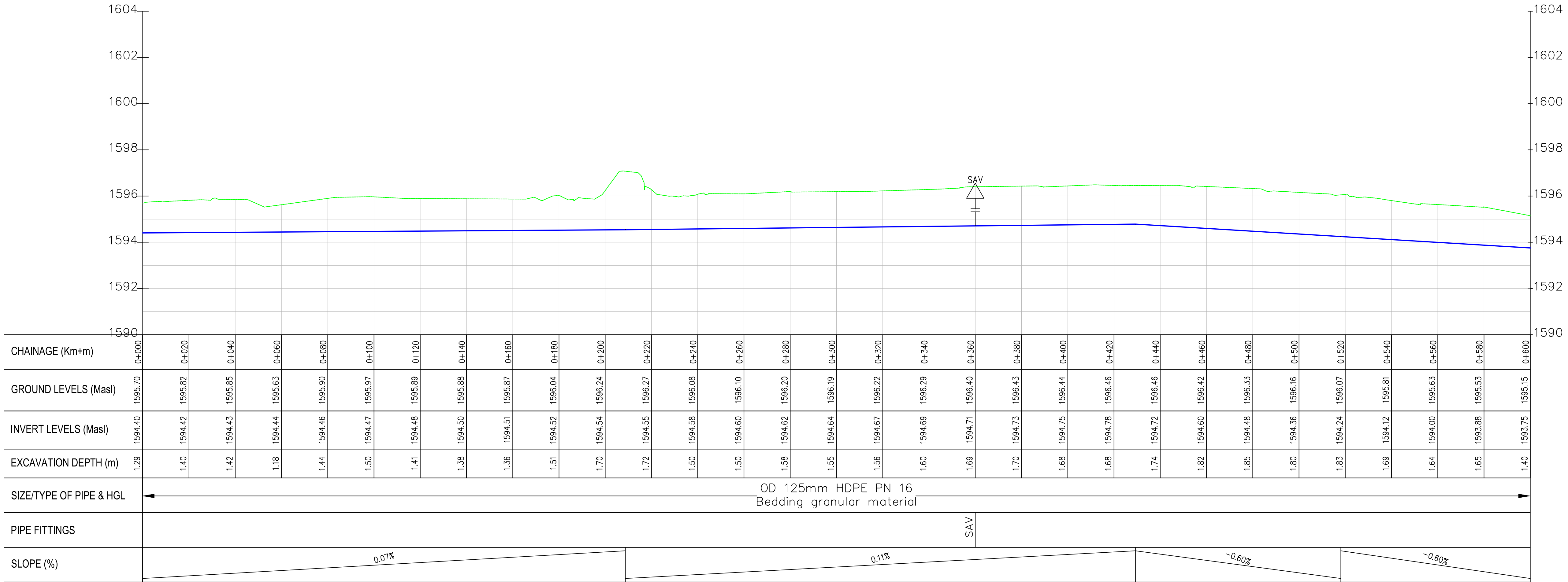
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PRELIMINARY ISSUE
Signed: Team Leader

Oasis-Lelechwet PROFILE



REV	REVISIONS	SIGN	DATE	APPROVED
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Client:

WaterFund
Financing the Water Sector

Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

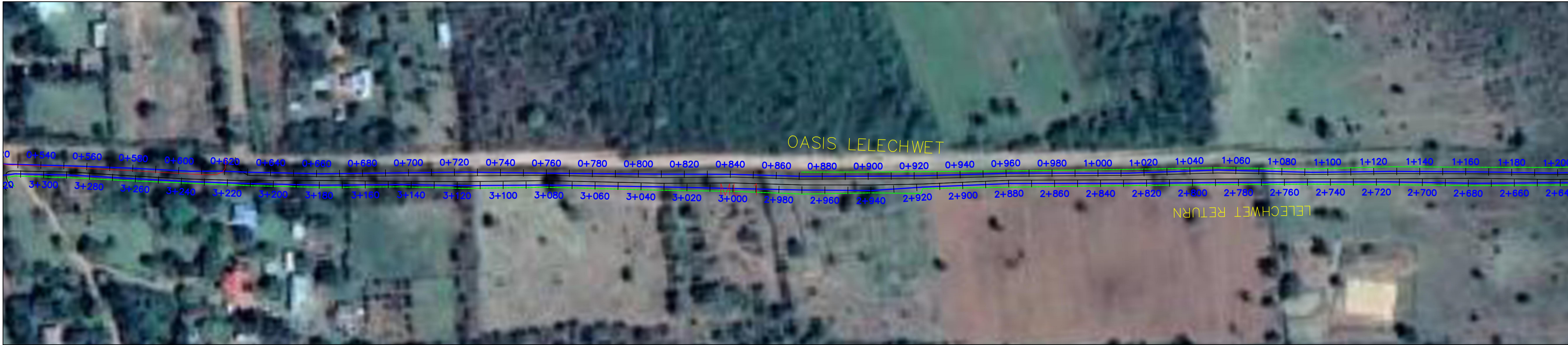
Design Consultants:

gath
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
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KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LELECHWET**

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 1 OF 7	0 REV	

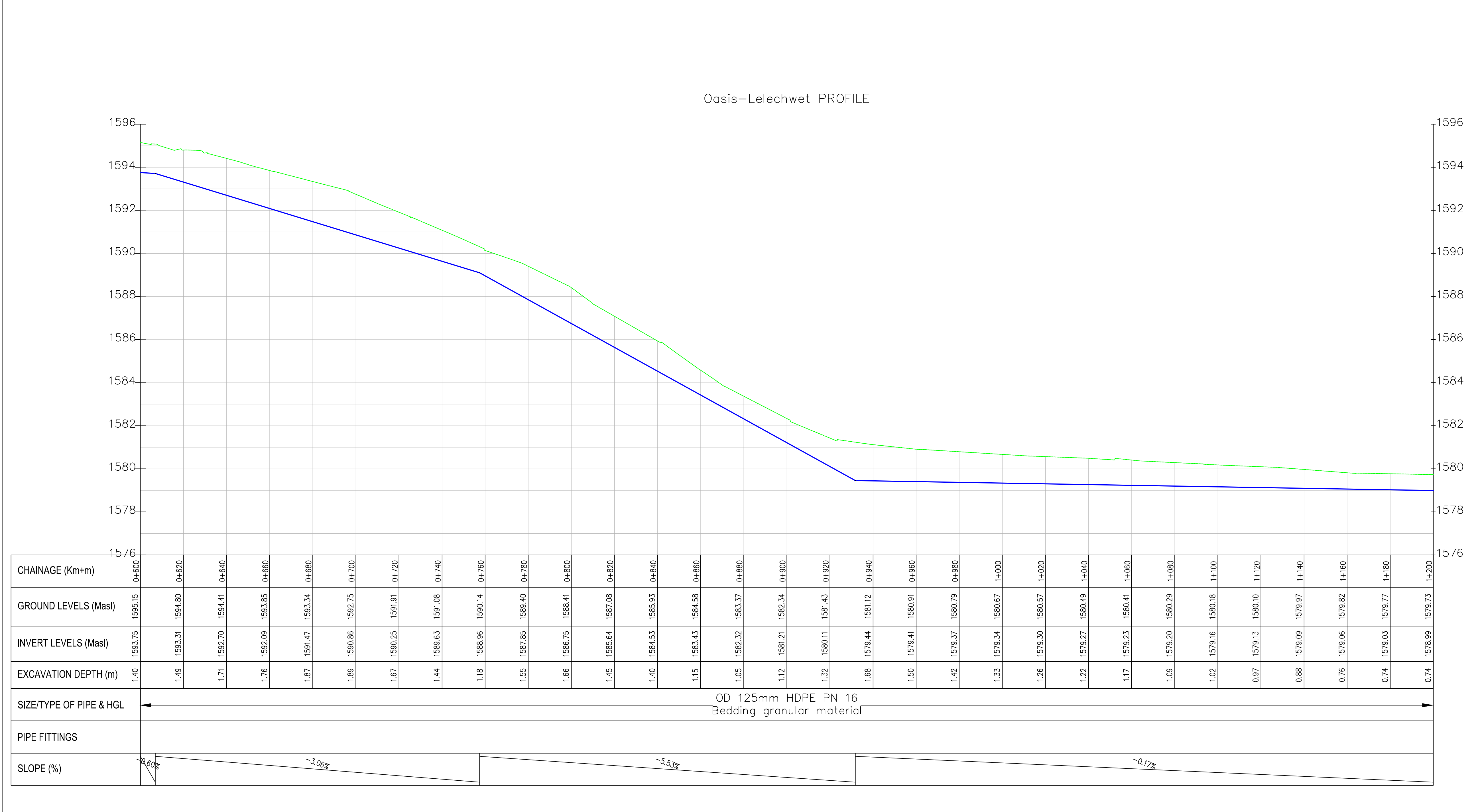


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PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
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Client:

WaterFund
Financing the Water Sector

Financier:

Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

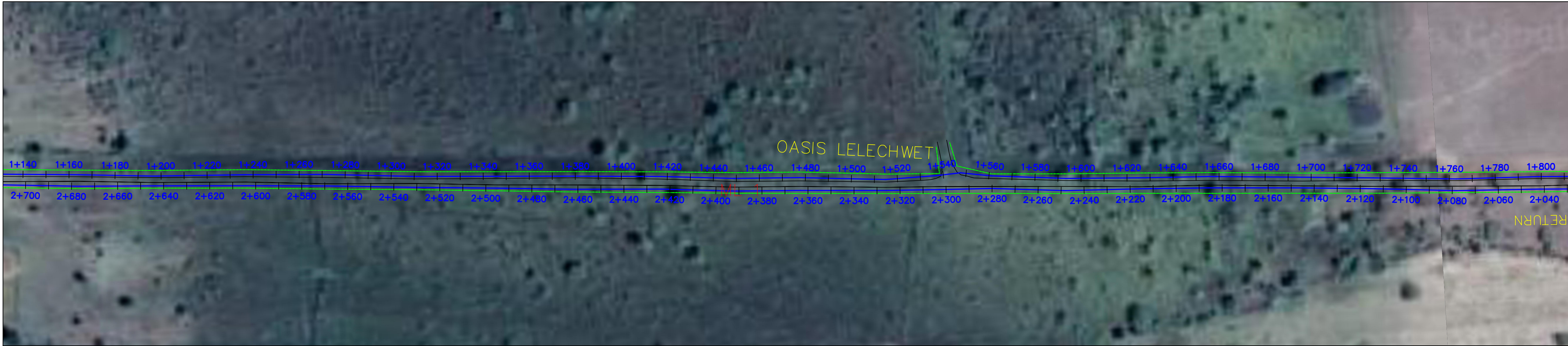
Design Consultants:

gath
CONSULTING ENGINEERS
GATH CONSULTING ENGINEERS,
MUTHANGARI DRIVE/OFF WAIYAKI
WAY,
P.O BOX 14279, /00800, NAIROBI,
KENYA TEL:254-020-4441473/4444837
EMAIL : gce@gathkenya.com

Drawing Title:

**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LELECHWET**

Designed by	EB0	Drawn by	SMN
Checked by	CWM	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 2 OF 7	0 REV	

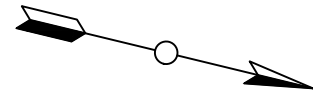


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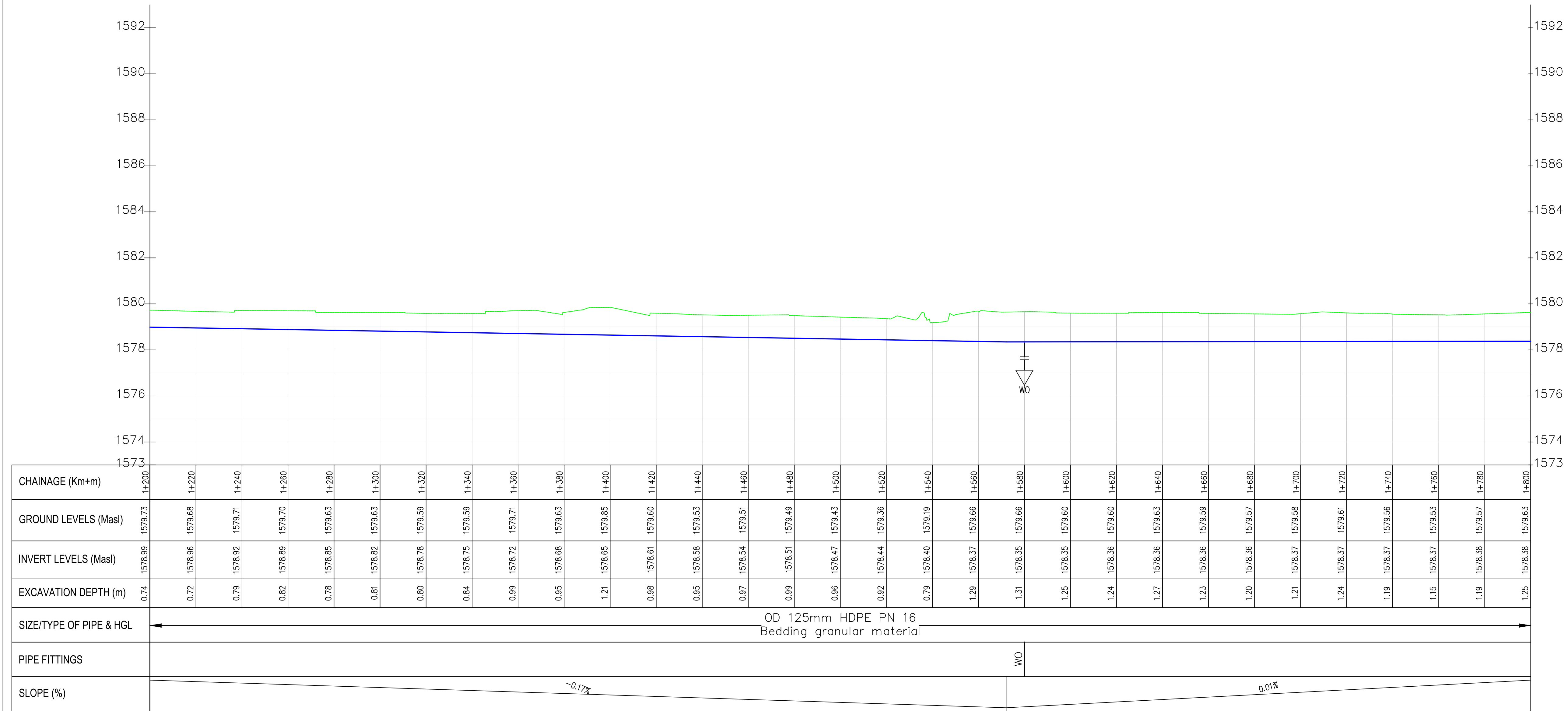
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Oasis-Lelechwet PROFILE



PRELIMINARY ISSUE

Signed: Team Leader

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Client:



Financier:



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SAOS - UPPER EMINING
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UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

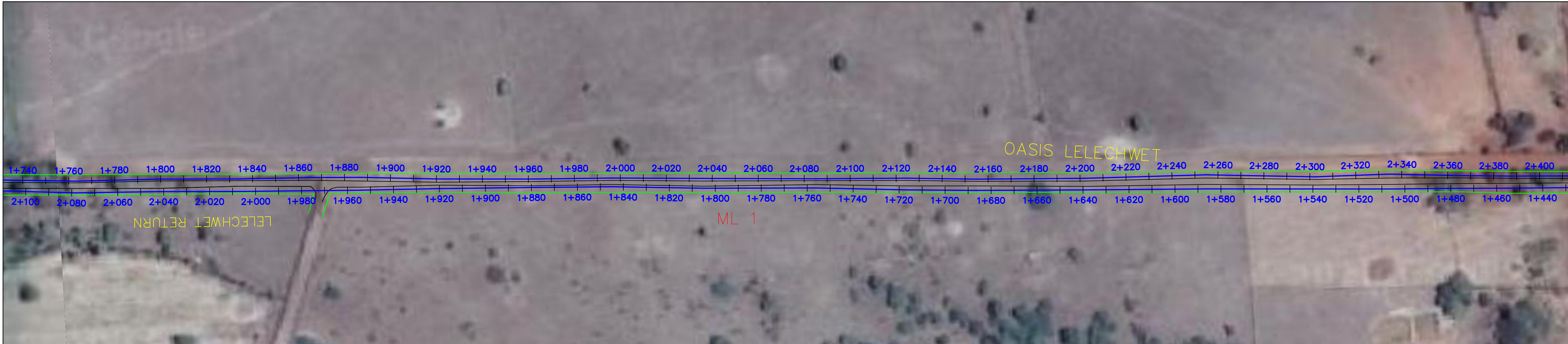
Design Consultants:



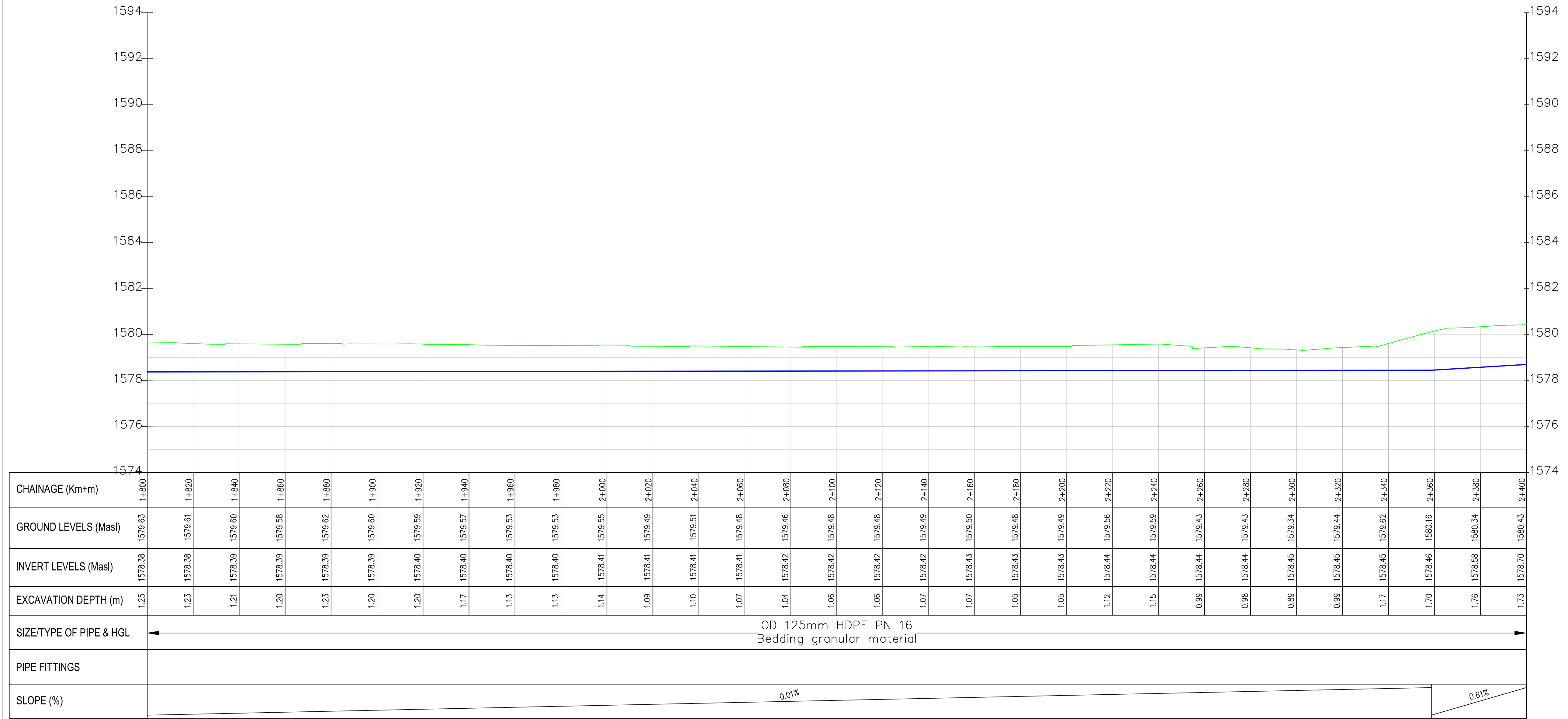
Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LELECHWET

Designed by	CWM	Drawn by	SMN
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Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING No. SHEET 3 OF 7		0 REV



Oasis-Lelechwet PROFILE



CHAINAGE (Km+m)	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	2+180	2+200	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400
GROUND LEVELS (Masl)	1579.63	1579.61	1579.60	1579.58	1579.62	1579.60	1579.59	1579.57	1579.53	1579.53	1579.55	1579.49	1579.51	1579.48	1579.46	1579.48	1579.48	1579.49	1579.50	1579.48	1579.48	1579.56	1579.59	1579.43	1579.43	1579.34	1579.44	1579.62	1580.16	1580.34	1580.43
INVERT LEVELS (Masl)	1578.38	1578.38	1578.39	1578.39	1578.39	1578.39	1578.40	1578.40	1578.40	1578.40	1578.41	1578.41	1578.41	1578.41	1578.42	1578.42	1578.42	1578.42	1578.43	1578.43	1578.43	1578.44	1578.44	1578.44	1578.45	1578.45	1578.45	1578.46	1578.58	1578.70	1578.70
EXCAVATION DEPTH (m)	1.25	1.23	1.21	1.20	1.23	1.20	1.20	1.17	1.13	1.13	1.14	1.09	1.10	1.07	1.04	1.06	1.06	1.07	1.07	1.05	1.05	1.12	1.15	0.99	0.98	0.89	0.99	1.17	1.70	1.76	1.73
SIZE/TYPE OF PIPE & HGL	OD 125mm HDPE PN 16 Bedding granular material																														
PIPE FITTINGS																															
SLOPE (%)	0.01%0.61%																														

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- WATER LINES (EXISTING)
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PRELIMINARY ISSUE

Signed: Team Leader

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Client:


Financing the Water Sector

Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
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Design Consultants:


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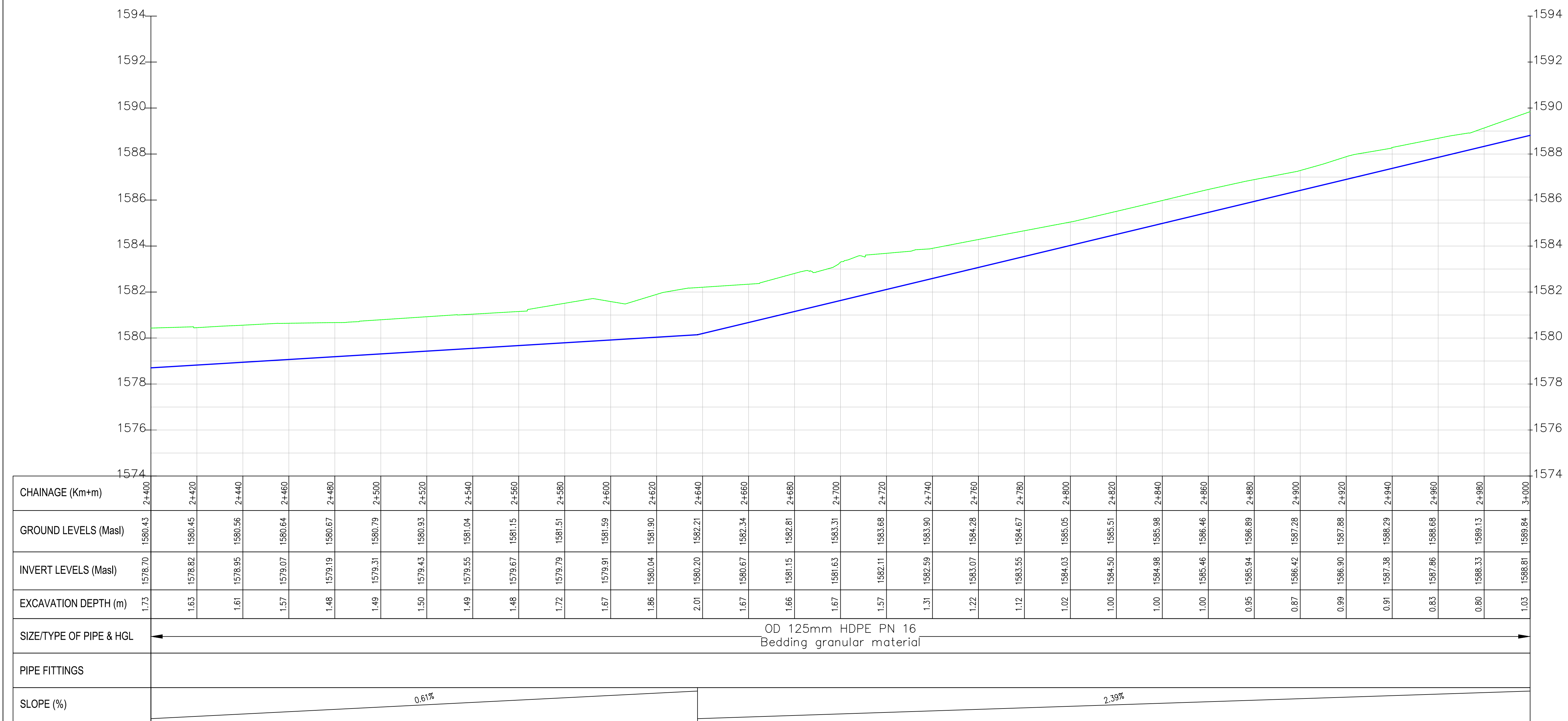
PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LELECHWET

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos

0 STATUS	DRAWING NO. SHEET 4 OF 7	0 REV
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Oasis-Lelechwet PROFILE



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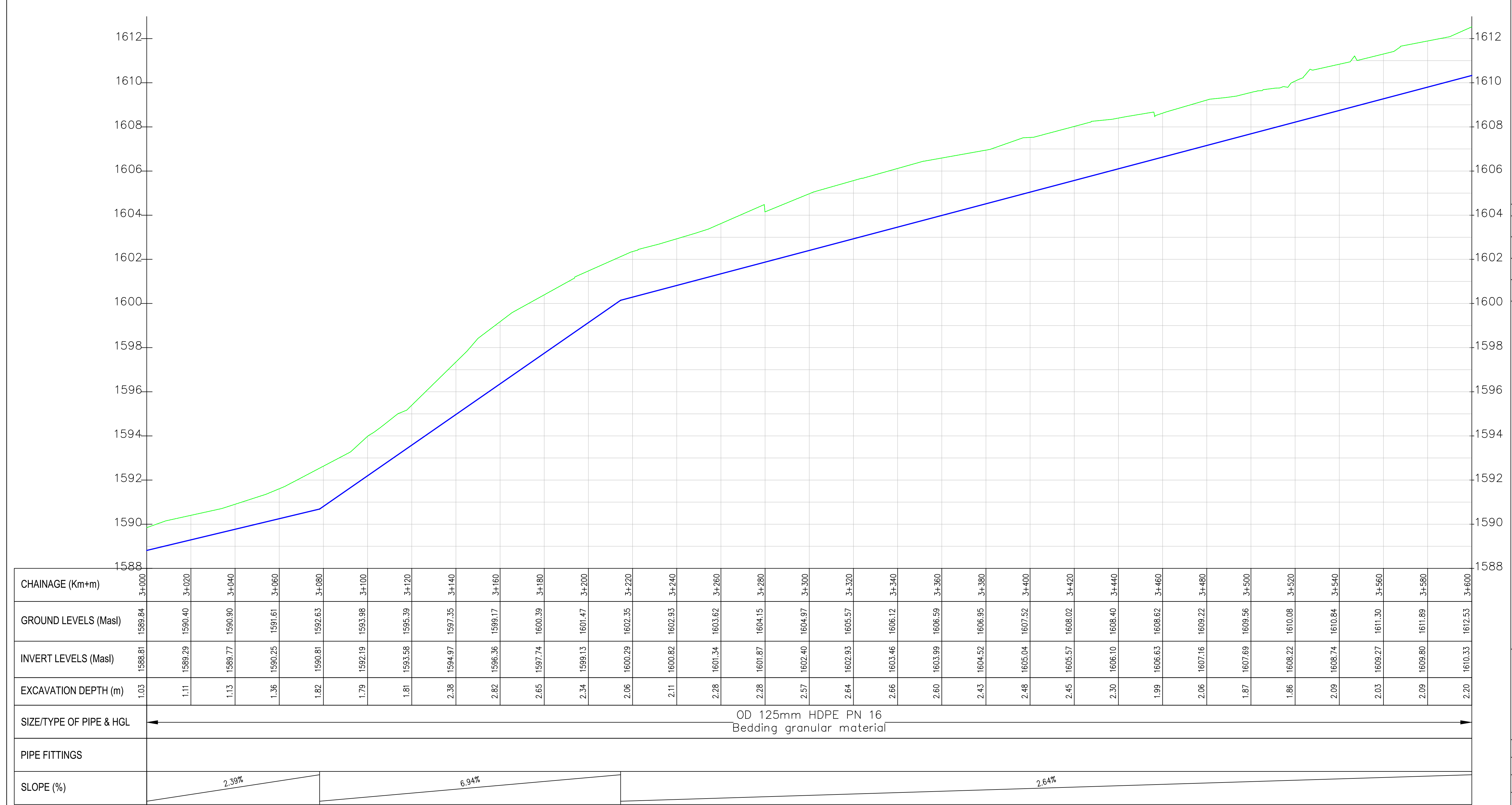
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**PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LELECHWET**

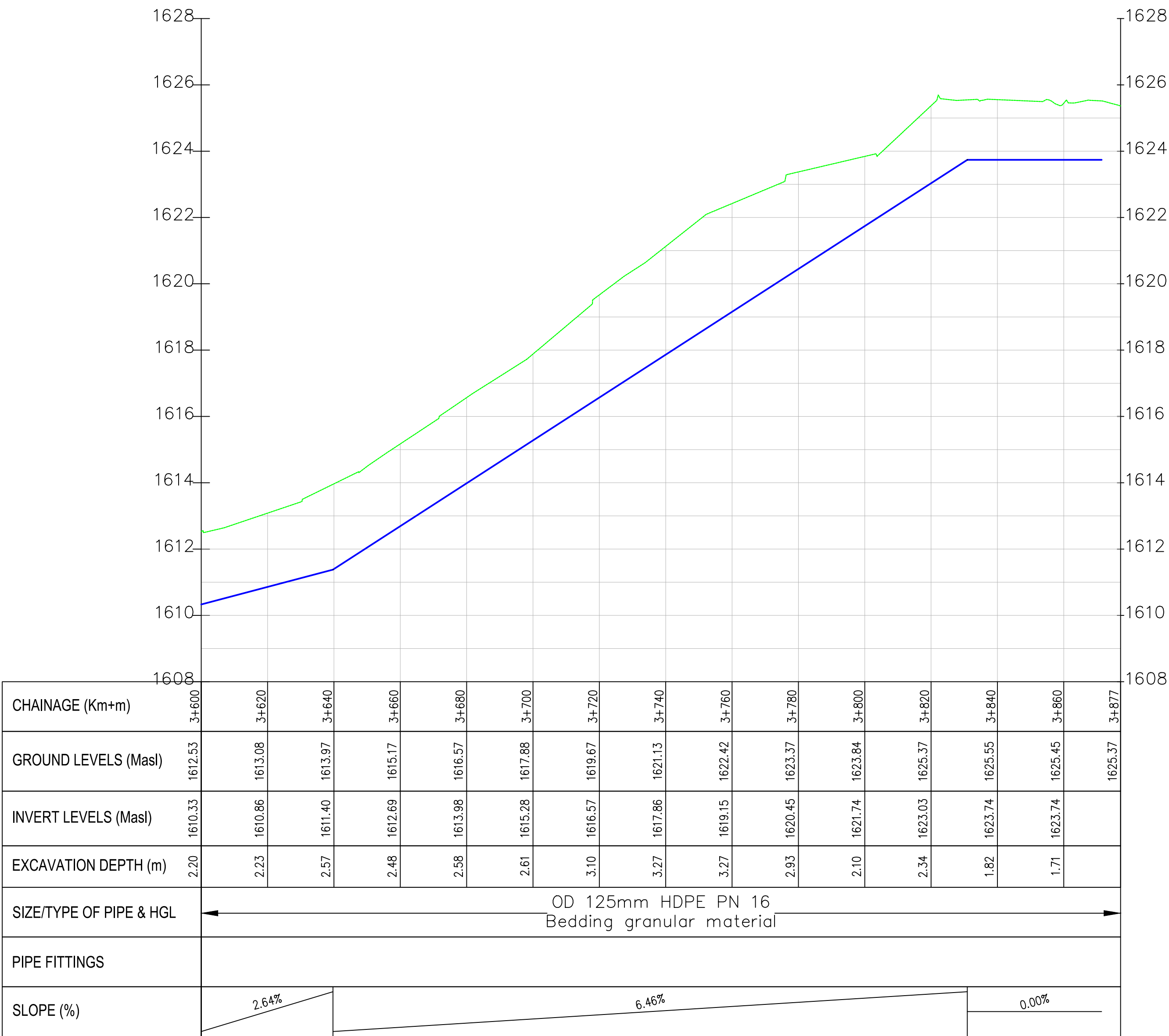
Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 5 OF 7		0 REV



0 STATUS	DRAWING No. SHEET 6 OF 7	0 REV
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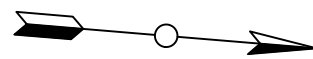


Oasis–Lelechwet PROFILE



NOTES:

1. ALL DIMENSIONS/LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
2. PIPES ARE TO BE LAID TO EVEN GRADIENTS WITH A MINIMUM COVER OF 1.0m AND 1.2m FOR TRAFFICKED AREAS. WHERE COVER IS LESS THAN THIS, PIPE TO BE SURROUNDED WITH CONCRETE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER RELATED DRAWINGS. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
4. PRECISE ROUTES TO BE DETERMINED ON SITE.



LEGEND:

- EXISTING GROUND PROFILE
- WATER LINES (EXISTING)
- WATER LINES (PROPOSED)
- RIVER/STREAM

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

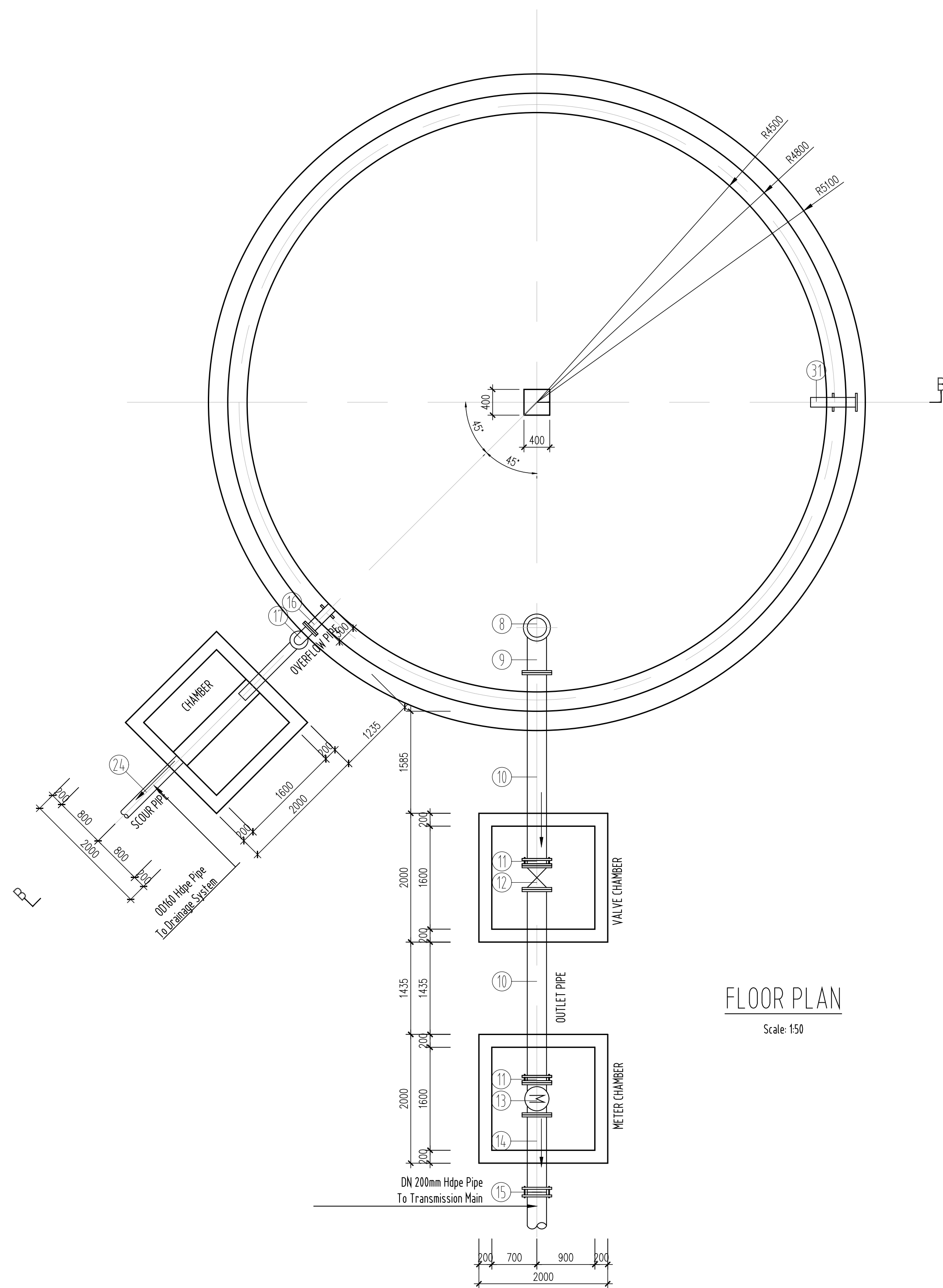
Design Consultants:



Drawing Title:

PROPOSED SAOS-EMINING WATER LINES
PLAN AND PROFILE
OASIS LELECHWET

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	H = 1:1,000 V = 1:100	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
0 STATUS	DRAWING NO. SHEET 7 OF 7	0 REV	



NOTES

1. All dimensions are in millimetres unless otherwise stated
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3. All reinforced concrete shall be class `30/20` for water retaining structures and class `25/20` for other reinforced concrete. Blinding concrete shall be class `15/20` unless otherwise stated
4. All exposed concrete edges shall have 20x20mm chamfer

LEGEND

- CWT - CLEAR WATER TANK
BF - BLANK FLANGE
PF - PUDDLE FLANGE
DN - NOMINAL DIAMETER
C/C - CENTRE TO CENTRE
PCC - PRECAST CONCRETE
RC - REINFORCED CONCRETE
MS - MILD STEEL
FC - FLEXIBLE COUPLING
TWL - TOP WATER LEVEL
PCC/STEEL - PRE-CAST CONCRETE/STEEL PIPE COUPLING

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

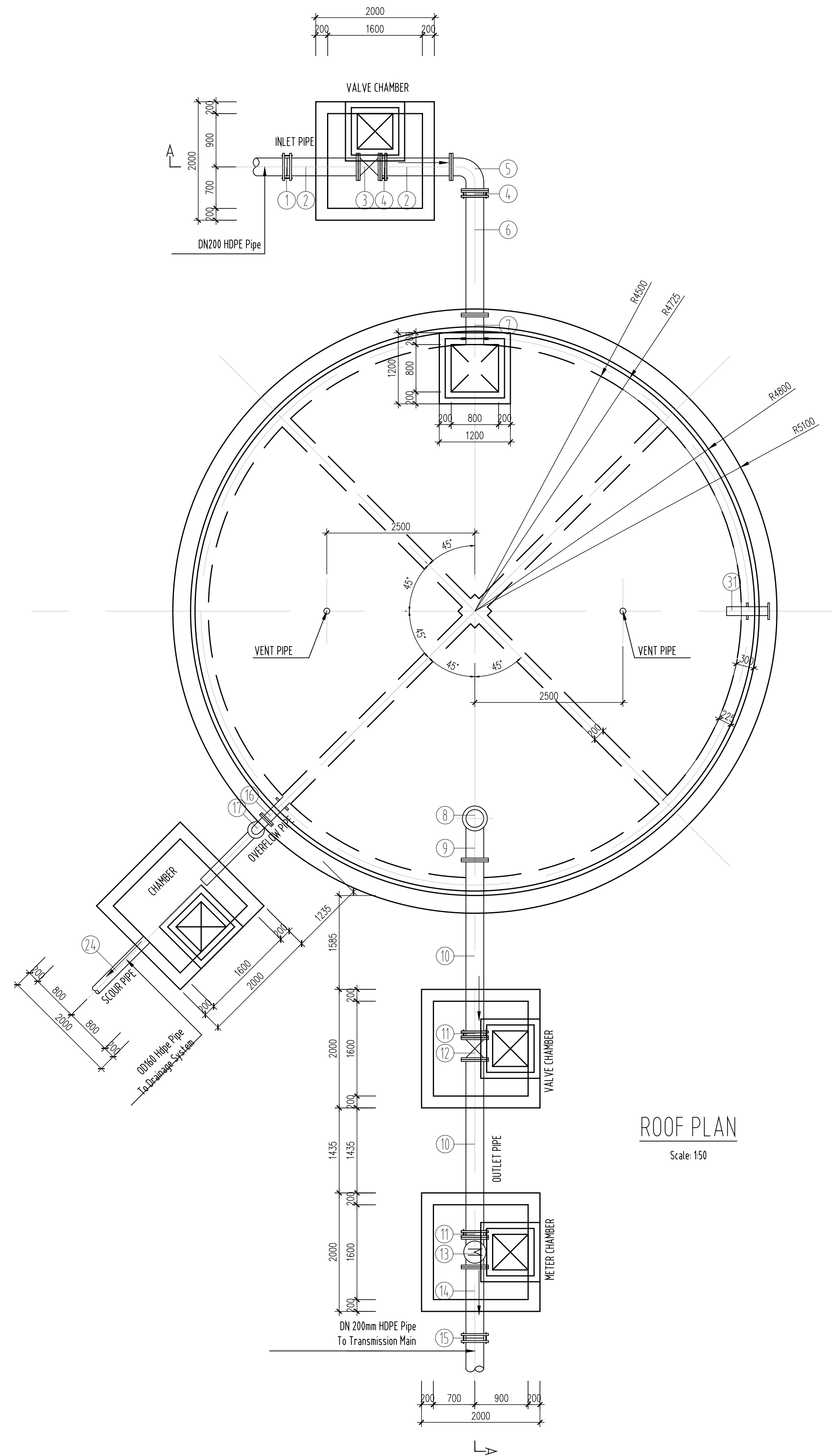
gath CONSULTING ENGINEERS
GATH CONSULTING ENGINEERS
MUTHANGARI DRIVE/OFF WAIYAKI WAY
P.O BOX 14279, 00800, NAIROBI, KENYA
TEL: 254-020-4441473-4444837
EMAIL: gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING TANK
FLOOR PLAN

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	AS SHOWN	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos

STATUS	DRAWING No.	MASONRY TANK SHEET 2 OF 6	REV
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NOTES

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PCC/STEEL - PRE-CAST CONCRETE/STEEL PIPE COUPLING

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
		BY			
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		BY			
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		BY			
		CHECKED			
		BY			
		CHECKED			

Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

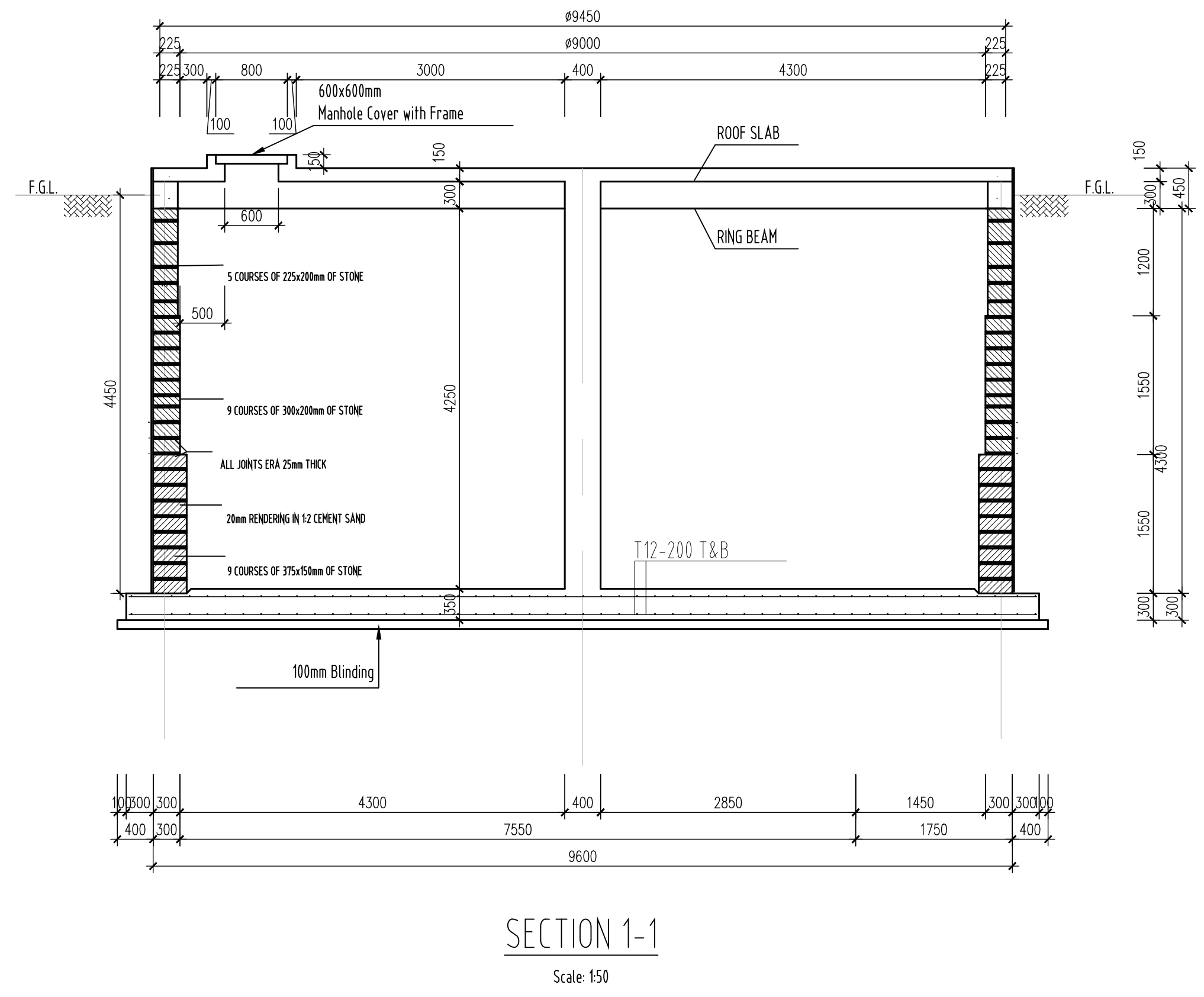
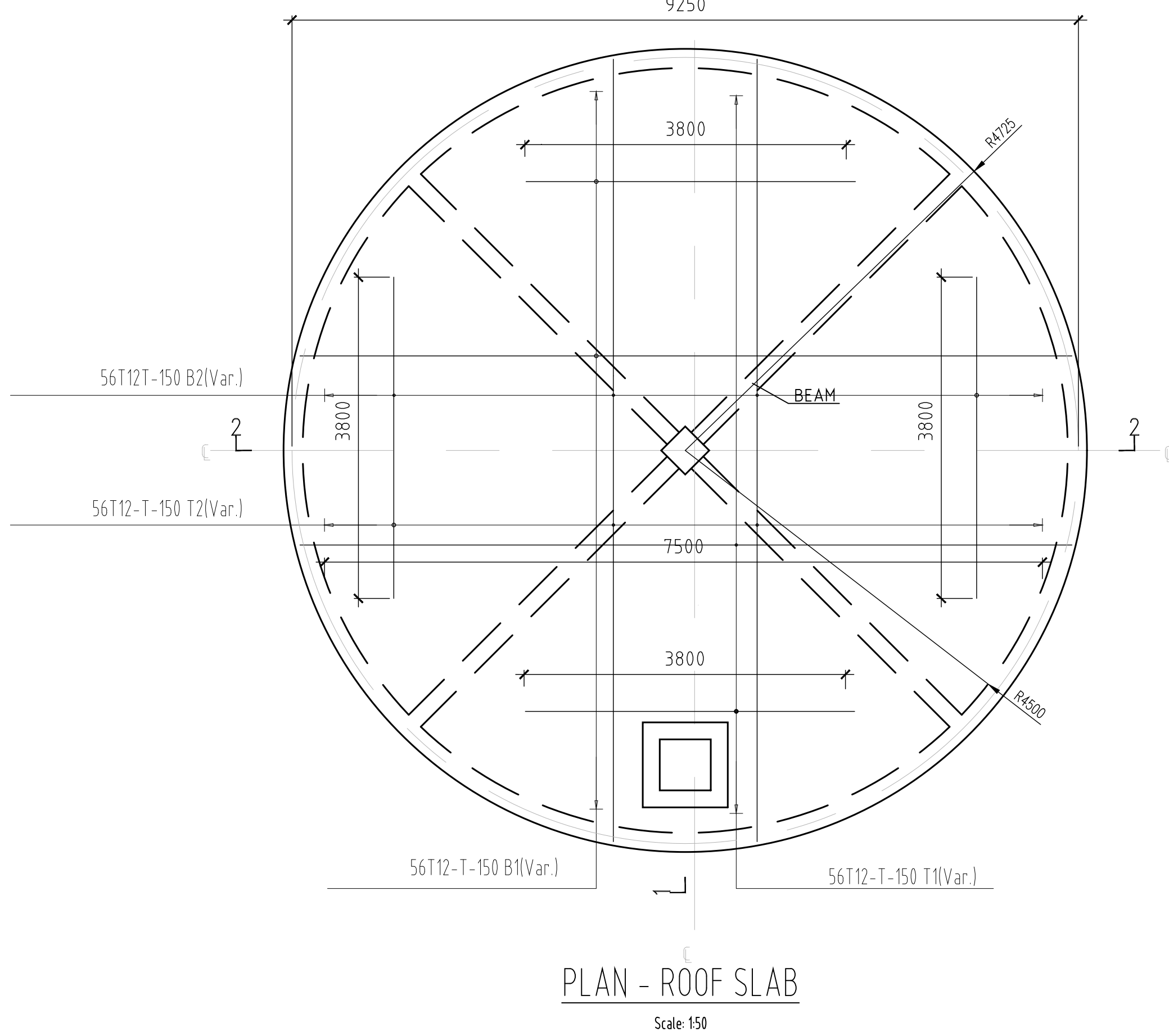
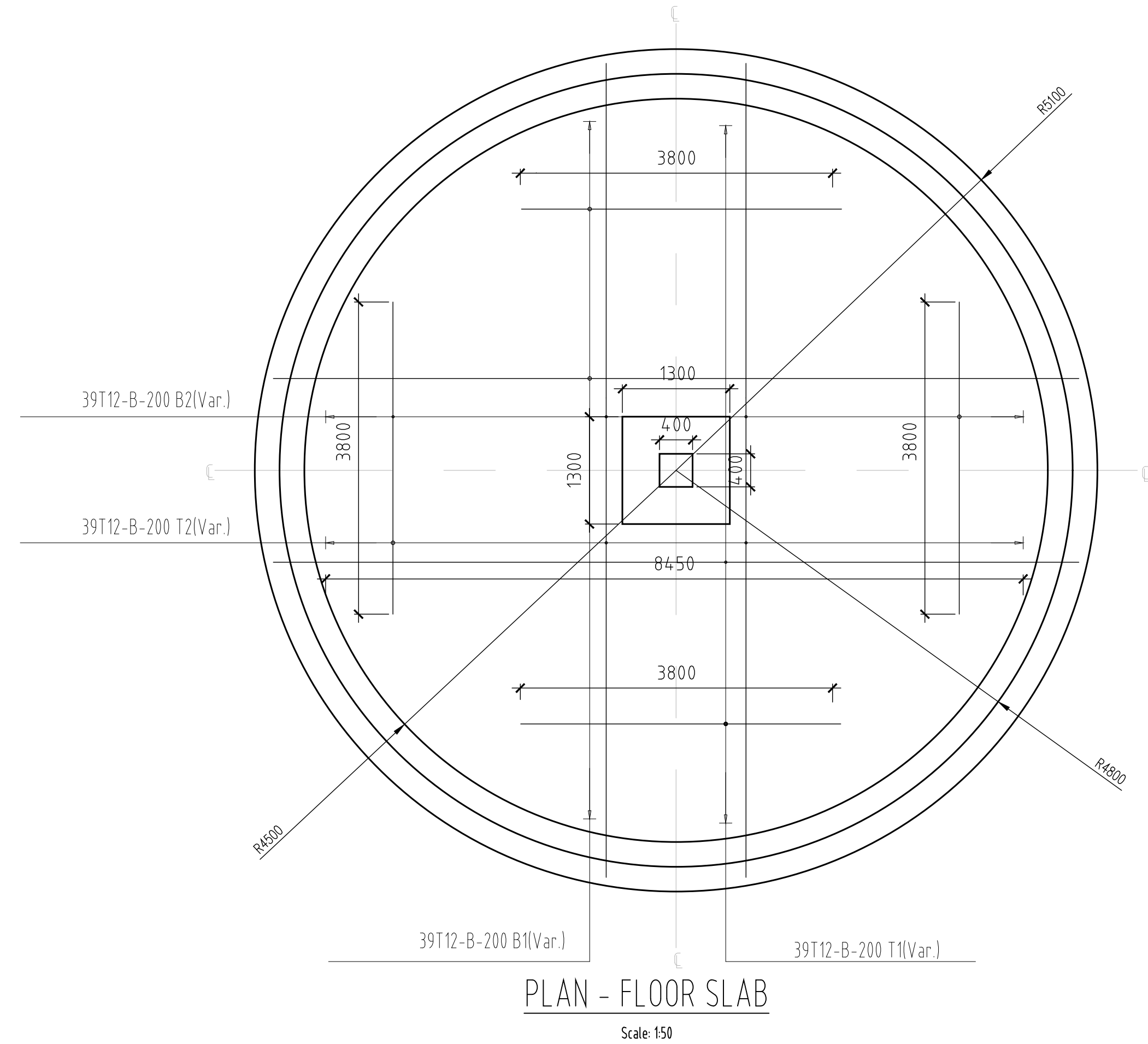
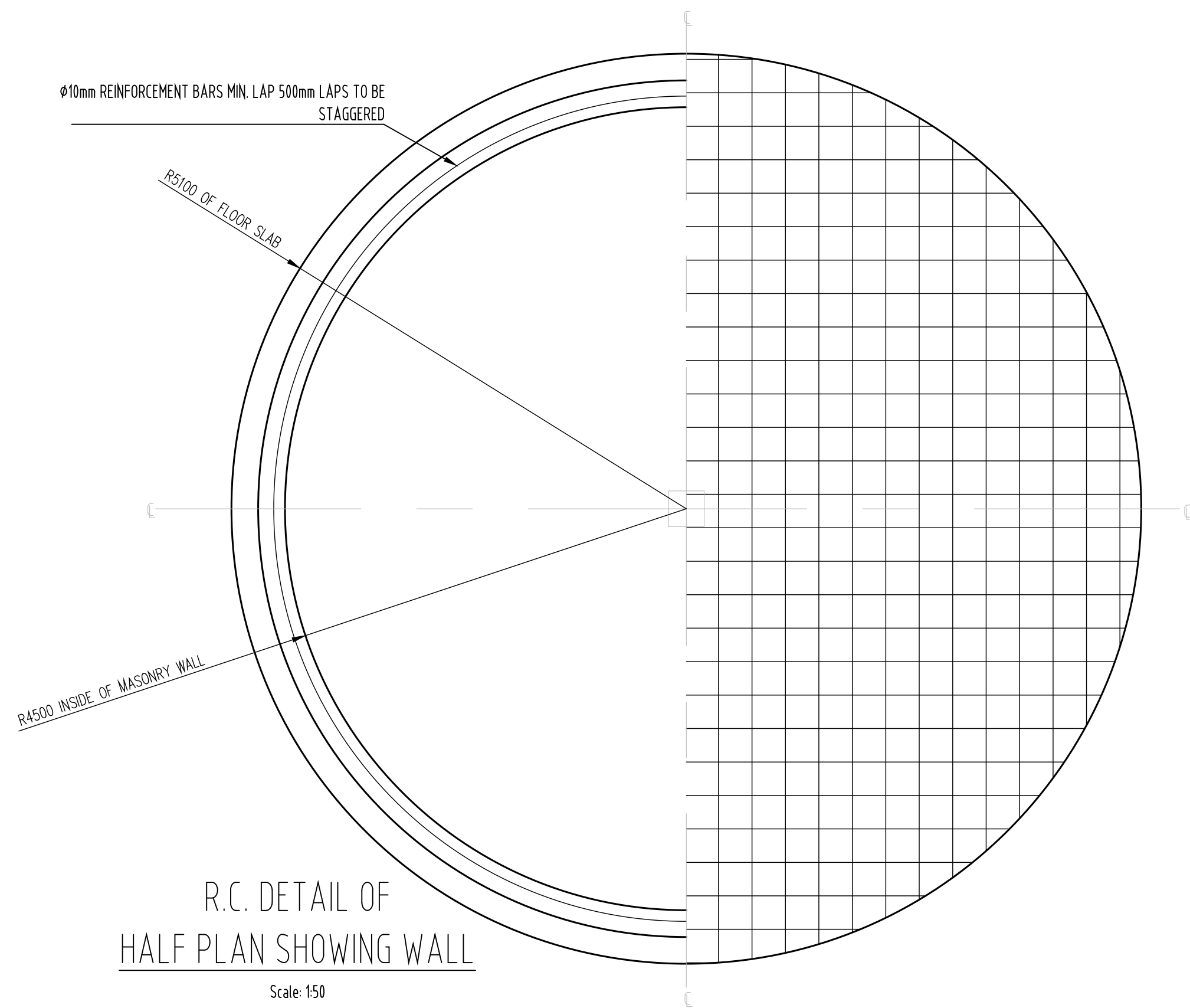
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P.O BOX 14279, 00800, NAIROBI, KENYA
TEL: 254-020-4441473-4444837
EMAIL: gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING TANK
FLOOR PLAN

Designed by	CWM	Drawn by	SMN
Checked by	EB0	Approved by	KNM
Scale	AS SHOWN	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos

STATUS	0	DRAWING No.	MASONRY TANK SHEET 1 OF 6	0	REV
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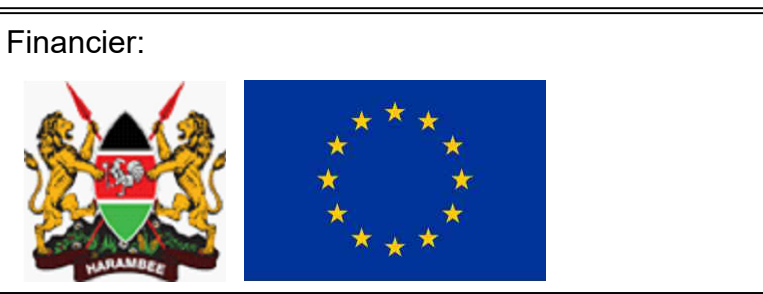


- NOTES**
1. All dimensions are in millimetres unless otherwise stated
 2. Scale is as shown and applies to A1 paper size
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 - BF - BLANK FLANGE
 - PF - PUDDLE FLANGE
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 - C/C - CENTRE TO CENTRE
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 - MS - MILD STEEL
 - FC - FLEXIBLE COUPLING
 - TWL - TOP WATER LEVEL
 - PCC/STEEL - PRE-CAST CONCRETE/STEEL PIPE COUPLING

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			

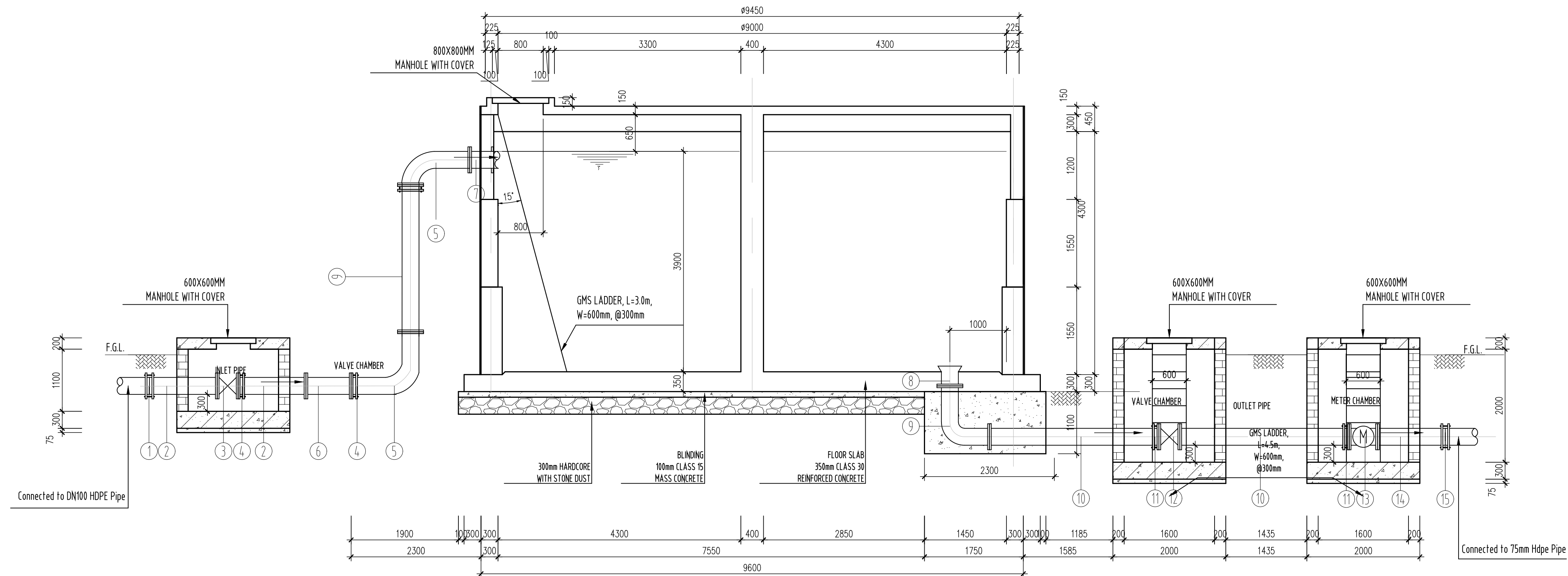


Project:
**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:
gath CONSULTING ENGINEERS
GATH CONSULTING ENGINEERS
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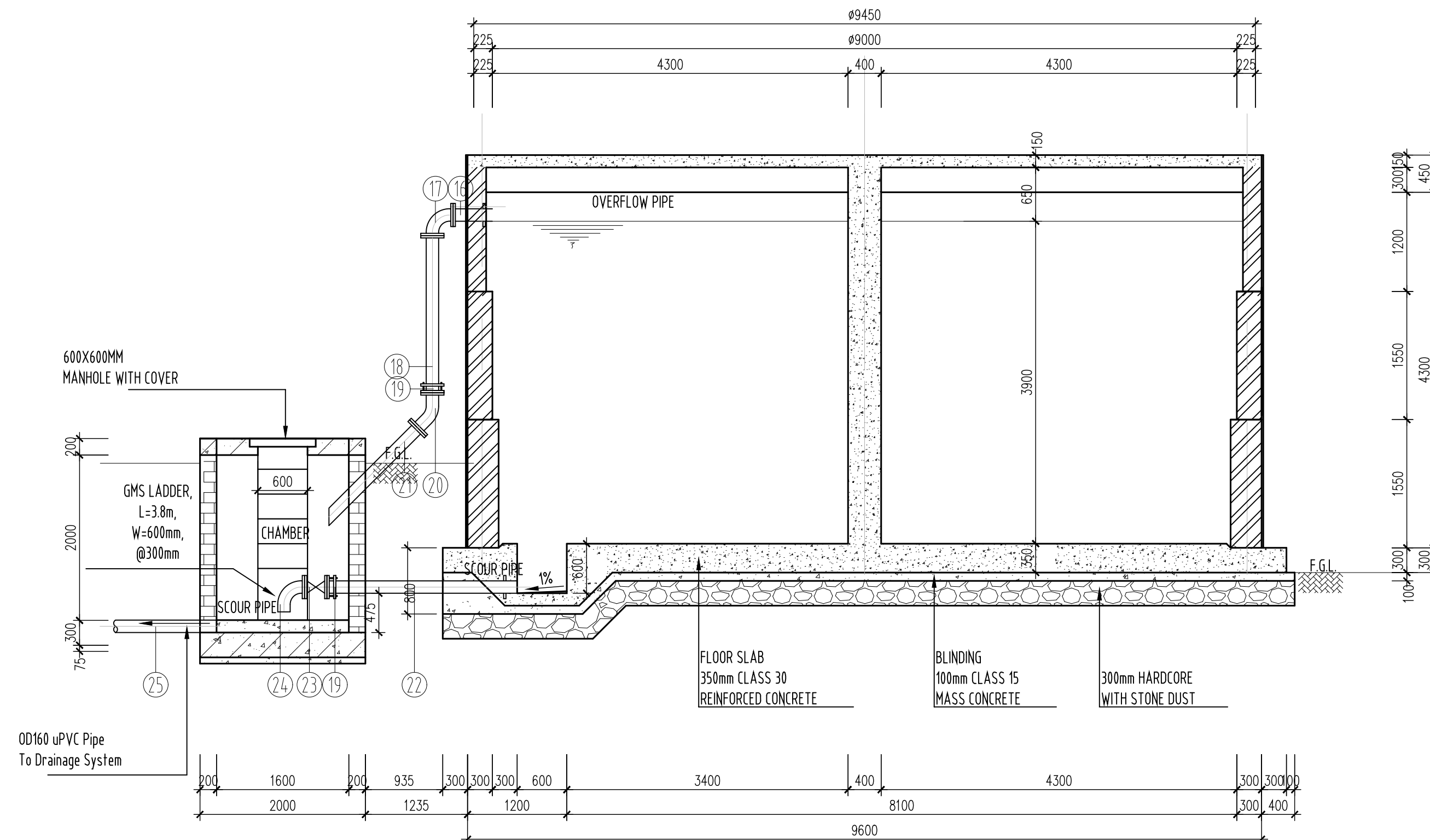
Drawing Title:
**PROPOSED SAOS-EMINING TANK
SECTION & PLANS**

Designed by	CWM	Drawn by	SMN
Checked by	EBO	Approved by	KNM
Scale	AS SHOWN	Date	November 2023
Job No.	WSTF/23	ACAD File:	Saos
STATUS	DRAWING No.	MASONRY TANK SHEET 3 OF 6	REV



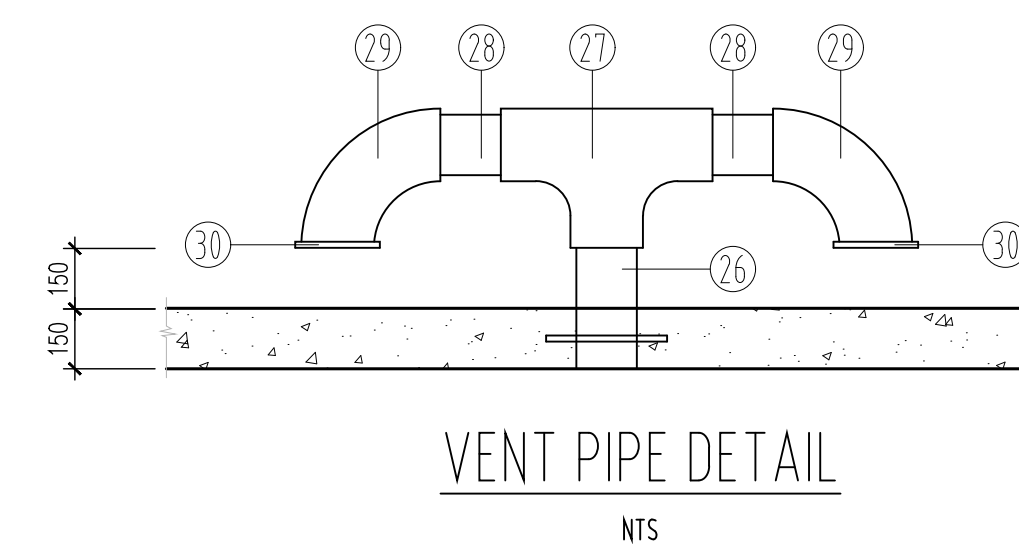
SECTION A-A

Scale: 150



SECTION B-B

Scale: 150



NOTES

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LEGEND

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C/C	- CENTRE TO CENTRE
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PCC/STEEL	- PRE-CAST CONCRETE/STEEL PIPE COUPLING

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:



Financier:



Project:

**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

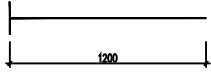
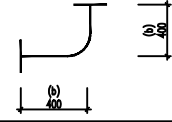
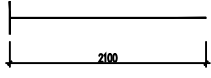
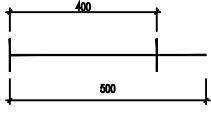
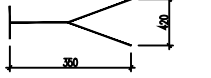
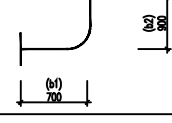
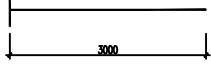
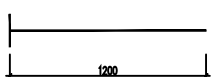
gath CONSULTING ENGINEERS
MUTHANGARI DRIVE/OFF WAIYAKI WAY
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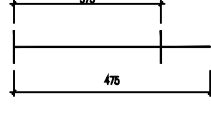
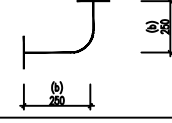
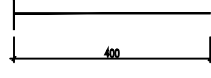
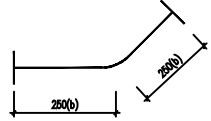
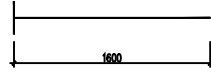
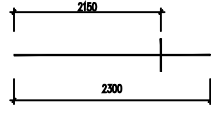
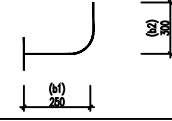
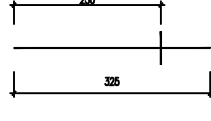
Drawing Title:

**PROPOSED SAOS-EMINING TANK
INLET & OUTLET SECTIONS**

Designed by	CWM	Drawn by	SMN
Checked by	EBO	Approved by	KNM
Scale	AS SHOWN	Date	December 2023
Job No.		ACAD File:	Saos
STATUS	DRAWING No.	MASONRY TANK SHEET 5 OF 6	REV

PIPEWORKS SCHEDULE

Code	Q'TY	DIA. (mm)	DESCRIPTION	SIZE/SKETCH
INLET PIPEWORK				
1	1	150	V.J. Coupling	DN150xOD168.3mm
2	2	150	Single Flanged Pipe	
3	1	150	All Flanged Gate Valve	L=370mm
4	2	150	V.J. Flange Adaptor	DN150xOD168.3mm
5	2	150	90° All Flanged Bend	
6	1	150	Single Flanged Pipe (Cut to Suit)	
7	1	150	Single Flanged Pipe with Puddle Flange	
OUTLET PIPEWORK				
8	1	150	All Flanged Bellmouth	
9	1	150	90° All Flanged Bend	
10	2	150	Single Flanged Pipe	
11	2	150	V.J. Flange Adaptor	DN150xOD168.3mm
12	1	150	All Flanged Gate Valve	L=370mm
13	1	150	All Flanged Water Meter	L=500mm
14	1	150	Single Flanged Pipe	
15	1	150	V.J. Coupling	DN150xOD168.3mm

ITEM No.	Q'TY	DIA. (mm)	DESCRIPTION	SIZE/SKETCH
OVERFLOW AND SCOUR PIPEWORK				
16	1	150	Single Flanged Pipe with Puddle Flange	
17	1	150	90° All Flanged Bend	
18	1	150	Single Flanged Pipe	
19	2	150	V.J. Flange Adaptor	DN150xOD168.3mm
20	1	150	45° Single Flanged Bend	
21	1	150	Single Flanged Pipe with Bevelled End	
22	1	150	Plain Ended Pipe with Puddle Flange	
23	1	150	All Flanged Gate Valve	L=270mm
24	1	150	90° Single Flanged Bend	
25	1	160	HDPE PIPE	
VENT PIPEWORK				
26	2	100	G.S. Single Male Threaded Pipe with Puddle Flange	
27	2	100x100	G.S. All Female Threaded Tee	
28	4	100	G.S. Hex Nipple	
29	4	100	G.S. 90° All Female Threaded Bend	
30	4	100	MOSQUITO WIRE GAUZE	

NOTES

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LEGEND

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C/C - CENTRE TO CENTRE
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TWL - TOP WATER LEVEL
PCC/STEEL - PRE-CAST CONCRETE/STEEL PIPE COUPLING

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

gath CONSULTING ENGINEERS
GATH CONSULTING ENGINEERS
MUTHANGARI DRIVE/OFF WAIYAKI WAY
P.O BOX 14279, 00800, NAIROBI, KENYA
TEL:254-020-4441473-4444837
EMAIL : gce@gathkenya.com

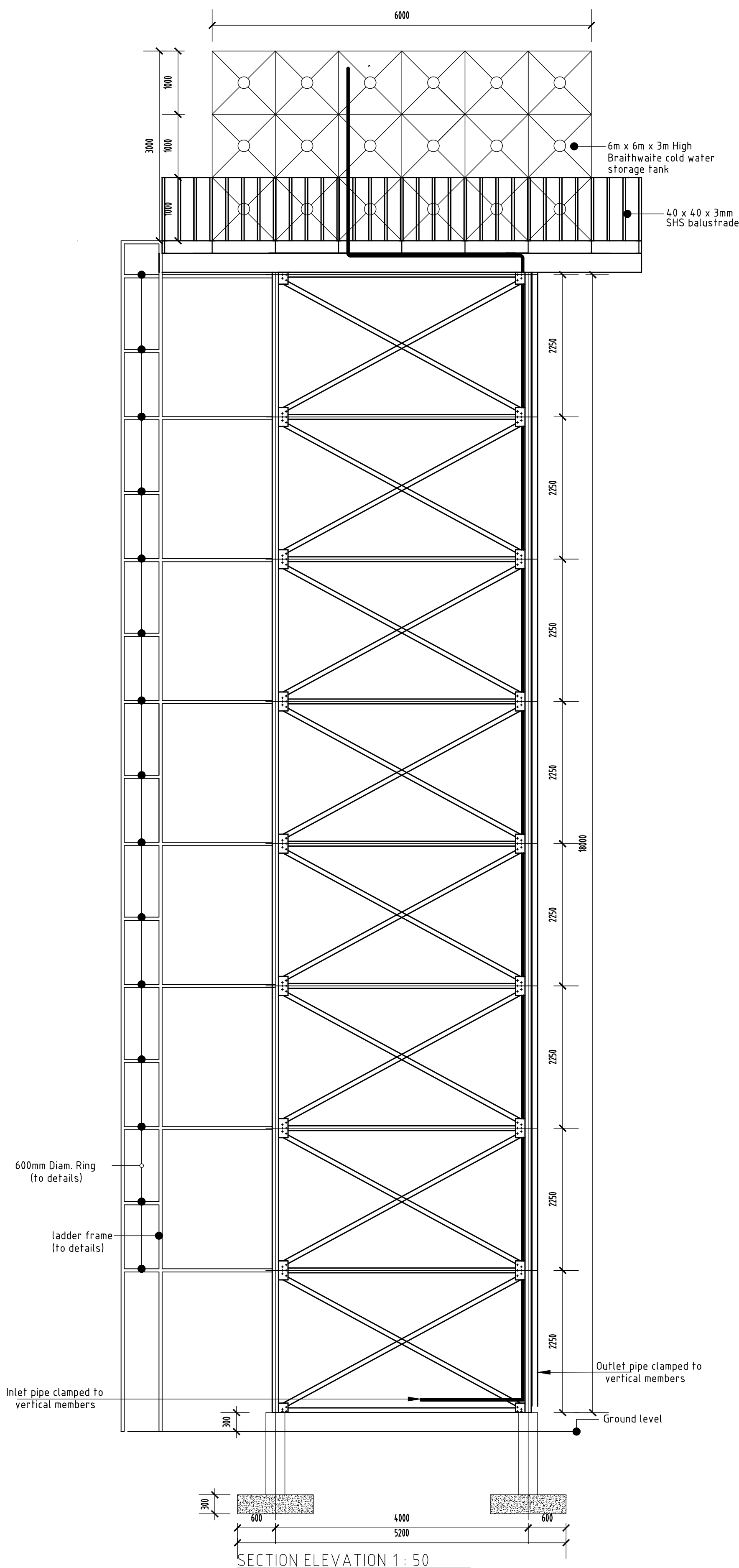
Drawing Title:

PROPOSED SAOS-EMINING TANK
PIPE SCHEDULE

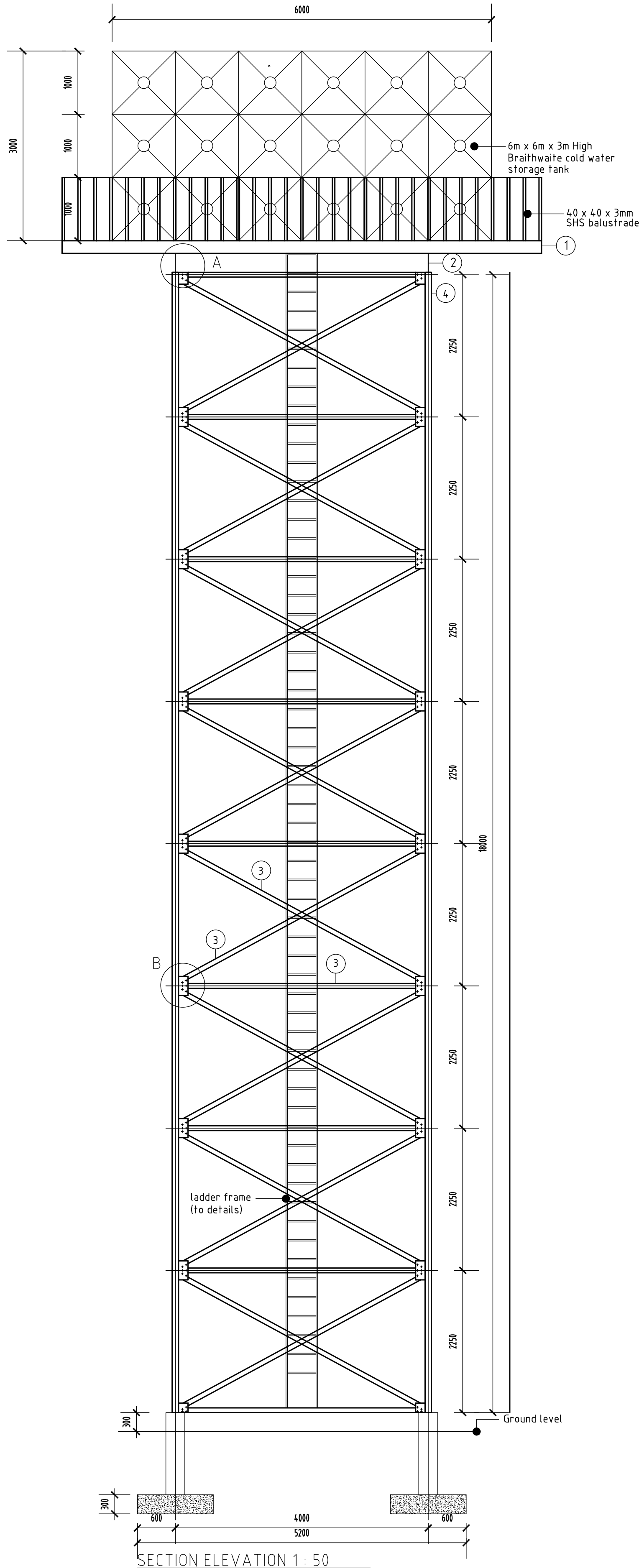
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Checked by	EBO	Approved by	KNM
Scale	AS SHOWN	Date	December 2023
Job No.		ACAD File:	Saos
STATUS	0	DRAWING No.	0

MASONRY TANK SHEET 6 OF 6
REV

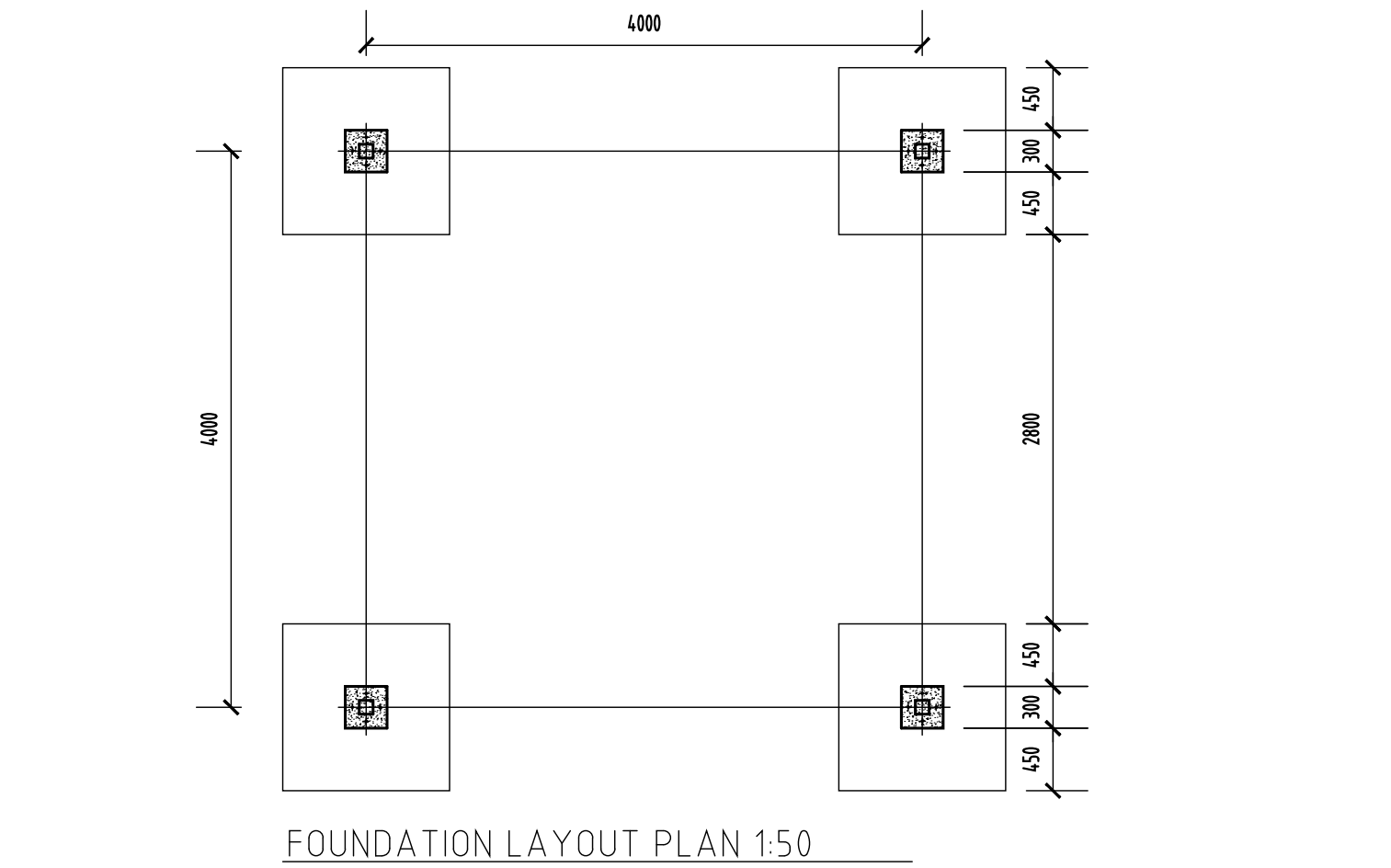
- KEY:-
1 - 254 x 146 x 43 Kg/m I-Beam
2 - 305 x 127 x 48 Kg/m I-Beam
3 - 75 x 75 x 6mm Thick Angle Iron
4 - 150 x 150 x 5mm Thick SHS



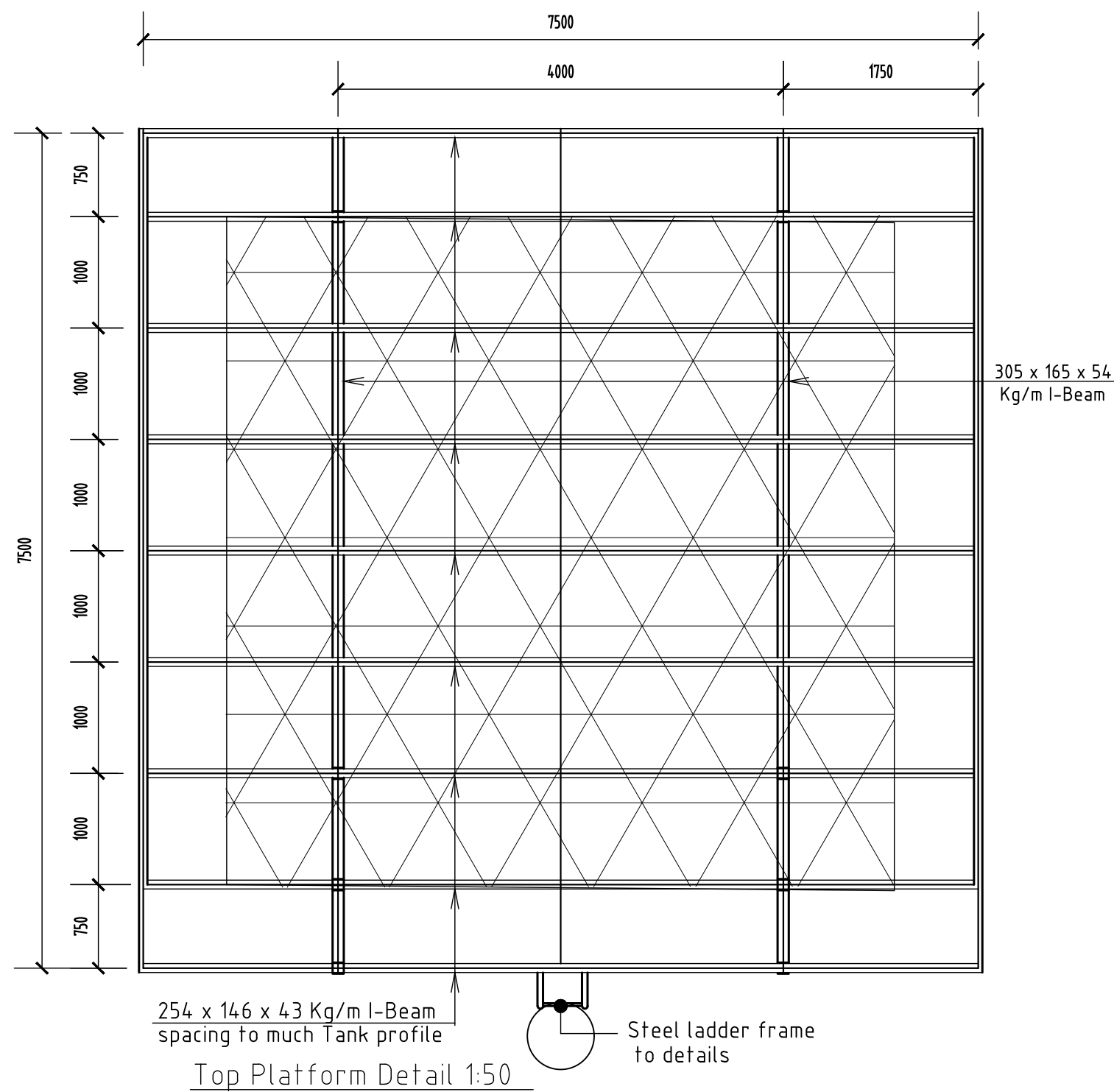
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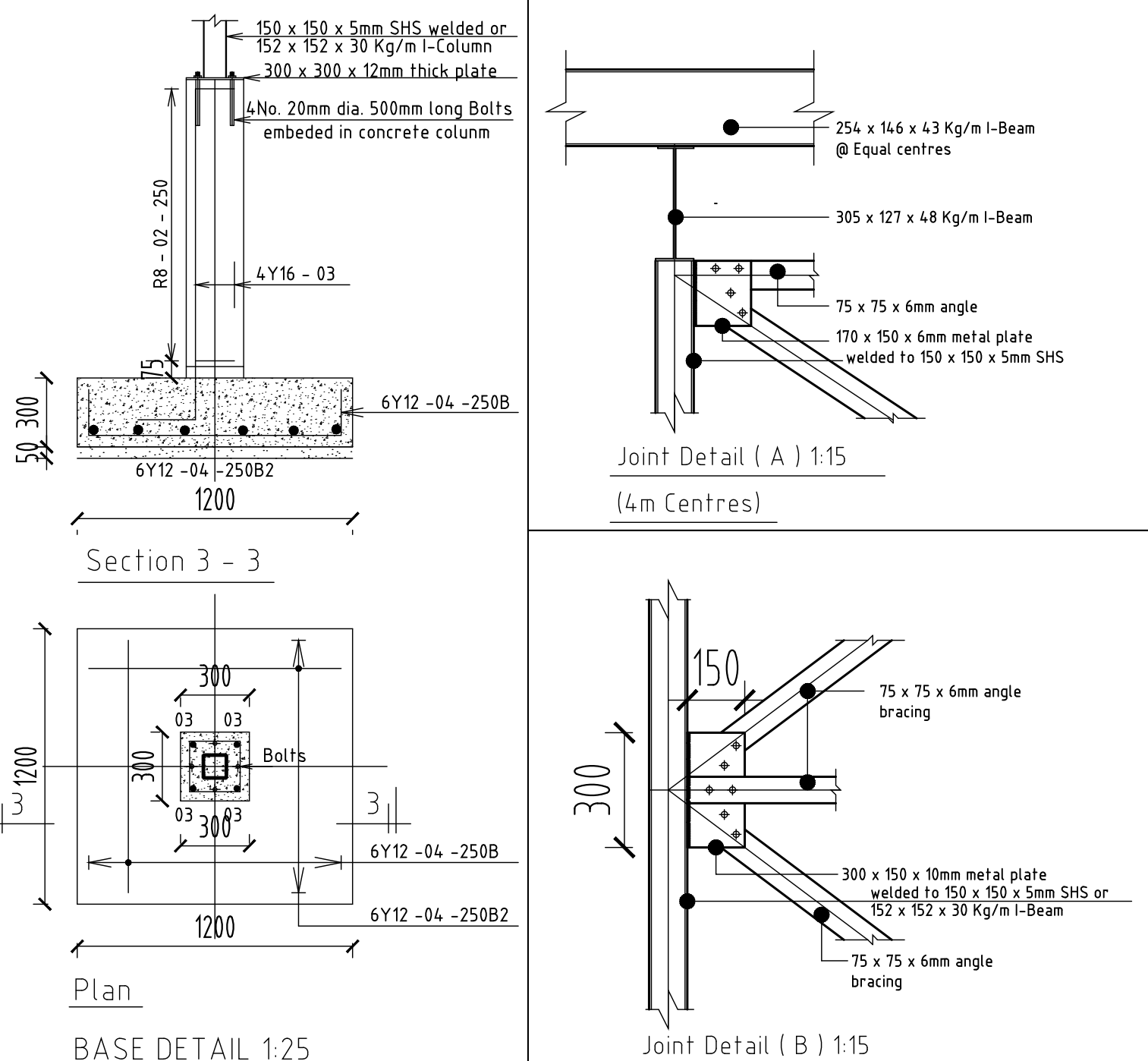
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FOUNDATION LAYOUT PLAN 1:50



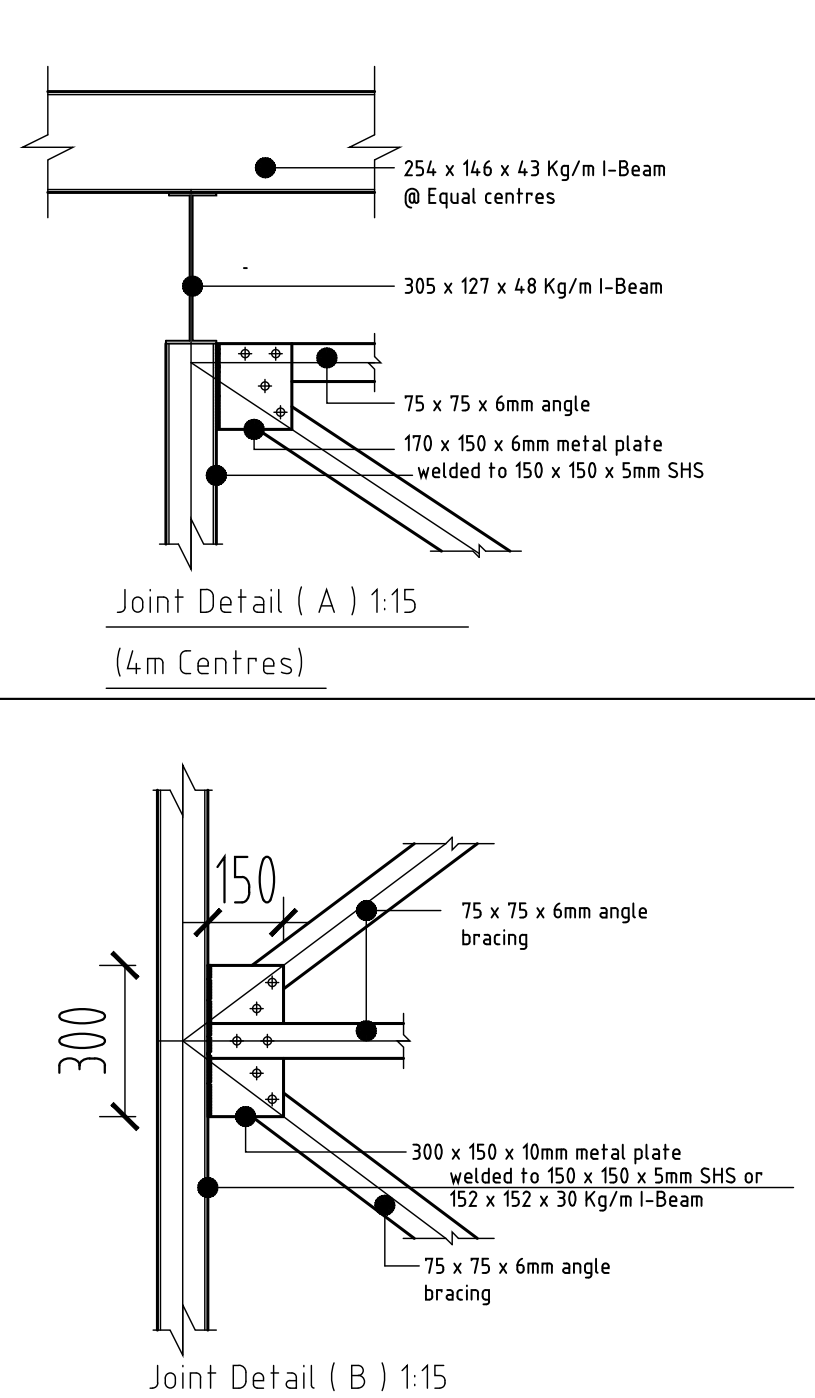
Top Platform Detail 1:50



Section 3 - 3

Plan

BASE DETAIL 1:25



Joint Detail (A) 1:15

(4m Centres)

Joint Detail (B) 1:15

- NOTES
- The Structural Engineer to inspect all the reinforcement cages before concreting
 - All dimensions are in millimetres (mm) unless otherwise shown or stated.
 - Cover to the main reinforcement to be :-
Foundation 50mm
Columns 40mm
Beams 25mm
Slabs 20mm
 - Reinforced concrete to be class 20 / 20 (1:2:4)
Blinding concrete to be class 15 / 20 (1:3:6)
 - Reinforcement steel to be :-
Y - Square twisted h.t.s Y-bars to BS 4461
R - Round mild steel bars to BS 4449
 - This drawing is to be read in conjunction with all other relevant drawings associated with these works. Any discrepancy to be reported to the Structural Engineer before proceeding.
 - Timber to be second grade, treated cypress (GS) coloured seasoned to the Equilibrium Moisture Content (EMC) 12%.
 - Abbreviations :-
T1 - Means the first topmost layer of reinforcement
T2 - Means the second topmost layer of reinforcement
B1 - Means the bottommost layer of reinforcement
B2 - Means the second bottommost layer of reinforcement
HTS - Means High Tensile Stress
DPC - Damp Proof Course
DPM - Damp Proof Membrane
 - Coarse aggregate to be machine crushed graded aggregate or equivalent and fine aggregate to be clean river sand to engineer's approval.
 - Maximum allowable Soil Bearing Capacity (SBC) to be 150 Kk/m². Foundation details to be confirmed on site by the Engineer.
 - Fabrication drawings to be done by the contractor and to be approved by the Engineer.
 - All fabrication works to be carried out under engineer's supervision.
 - Steel works to BS449 and BS 5950.
 - Steel works to be grade S355.
 - All dimensions to be confirmed on site.
 - All welding to be 6mm fillet weld.
 - Two coats of red oxide to be applied on all fabricated metal surfaces. One coat after fabrication and the other after erection on site.

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			
	BY	CHECKED			

Client:

Financing the Water Sector

Financier:



Project:
**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:

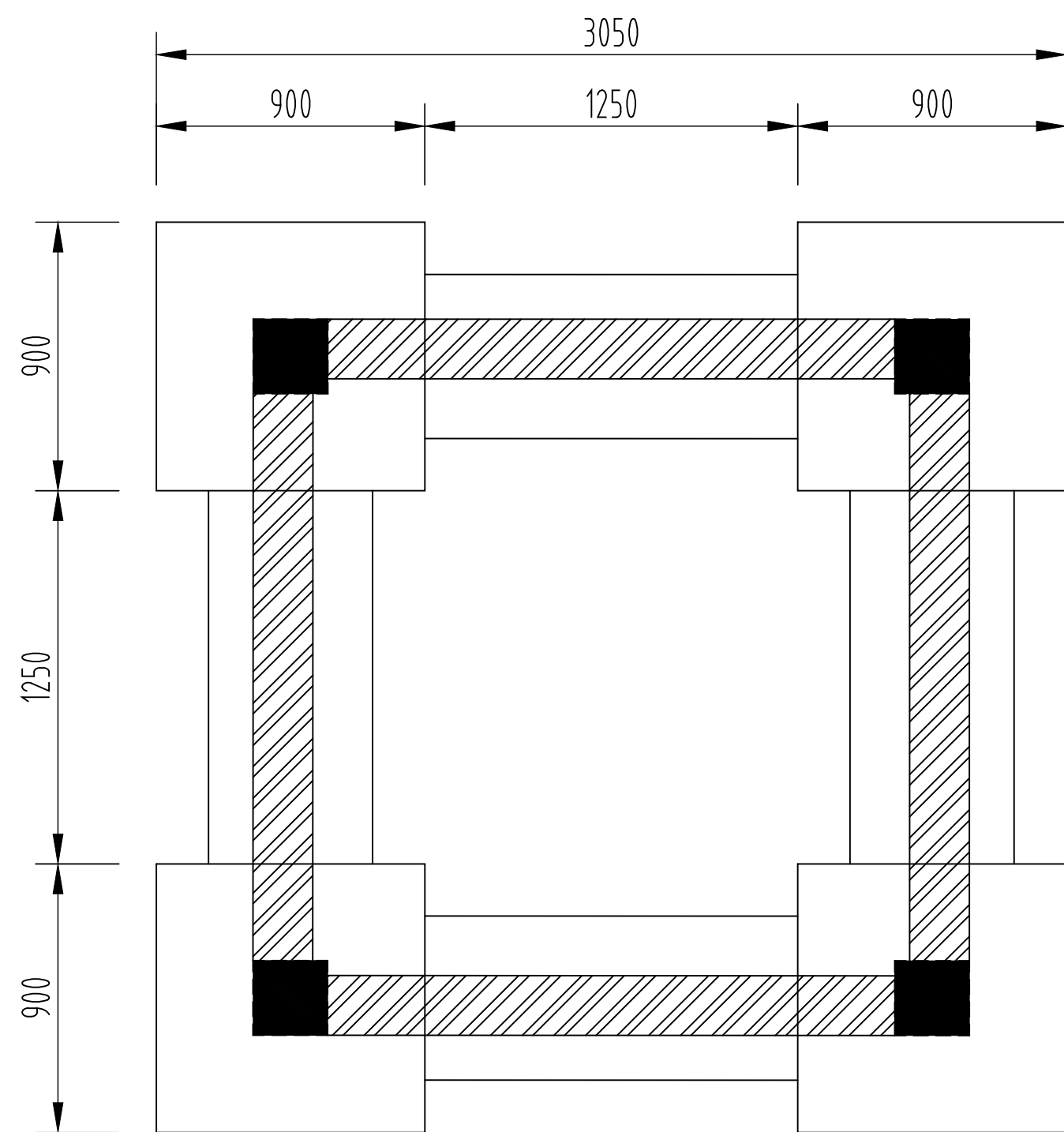
GATH CONSULTING ENGINEERS
MUTHANGARI DRIVE/OFF WAIYAKI WAY
P.O BOX 14279, 00800, NAIROBI, KENYA
TEL: 254-020-4441473-4444837
EMAIL: gce@gathkenya.com

Drawing Title:
**PROPOSED SAOS-EMINING STEEL TANK
ELEVATIONS & DETAILS**

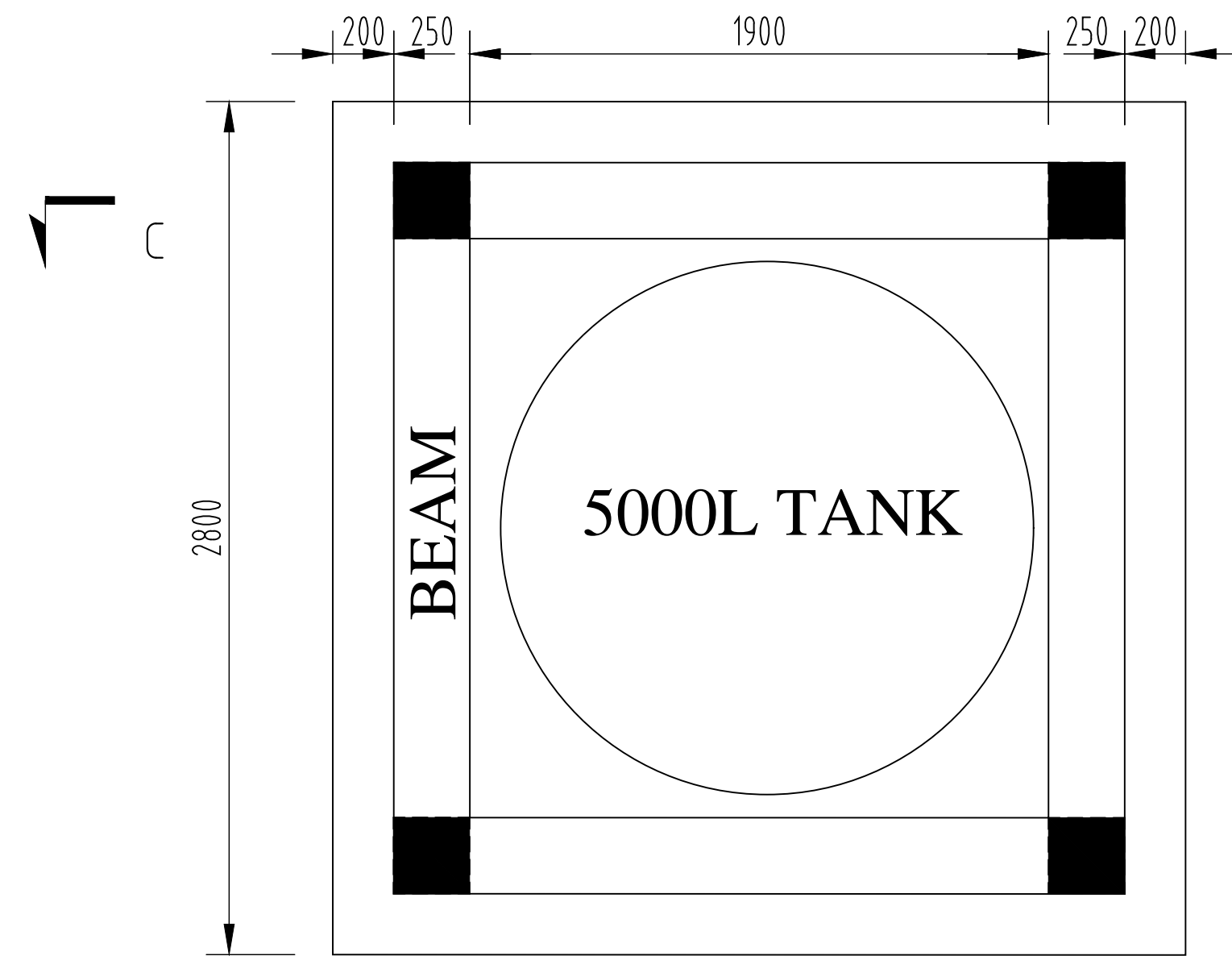
Designed by	CWM	Drawn by	SMN
Checked by	EBO	Approved by	KNM
Scale	AS SHOWN	Date	December 2023
Job No.		ACAD File:	Saos
STATUS	DRAWING No.	STEEL TANK SHEET 1 OF 1	REV



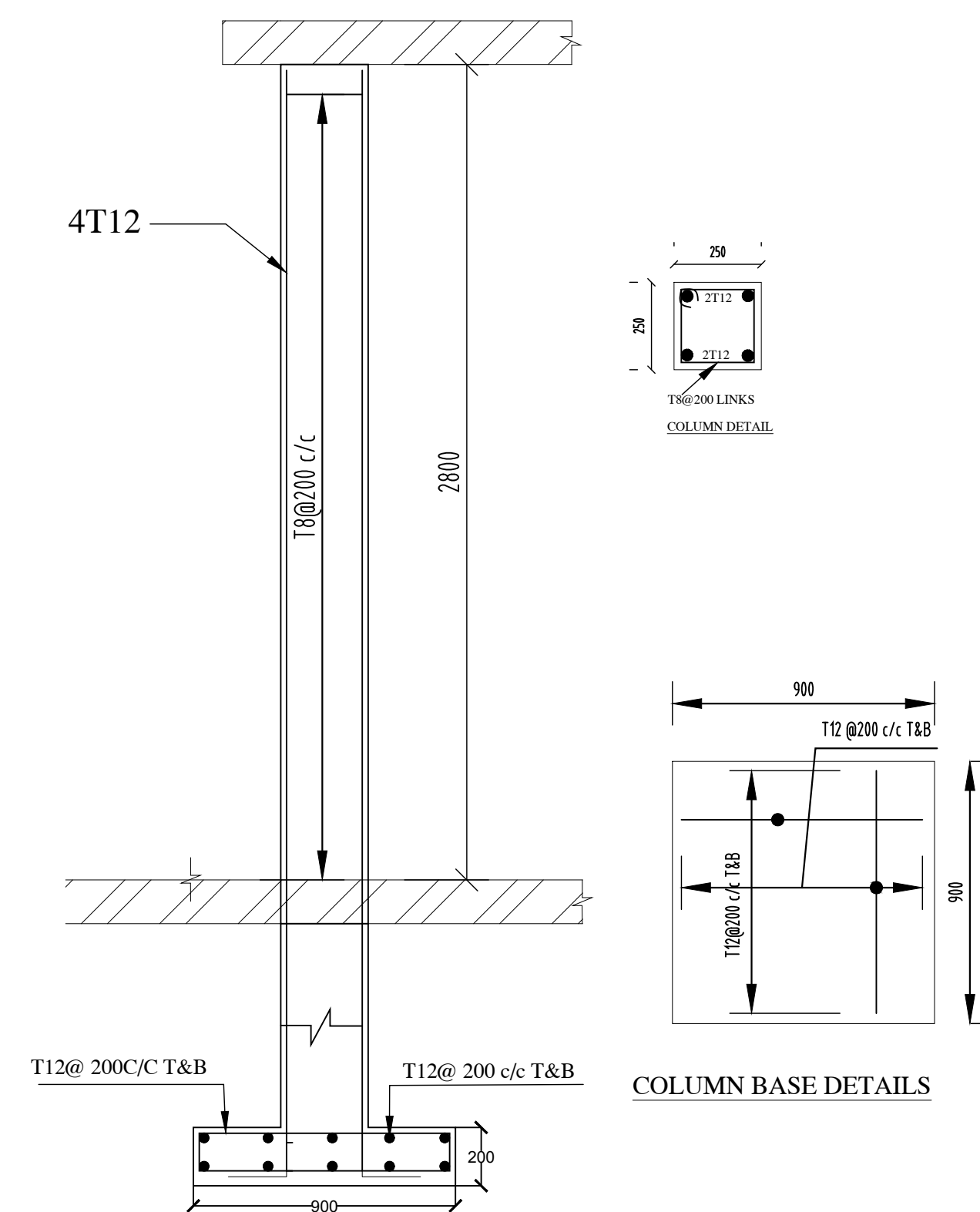
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Checked by		EB0	Approved by		KNM
Scale		^{AS} SHOWN	Date		December 2023
Job No.			ACAD File:		Saas
STATUS		DRAWING No.			REV



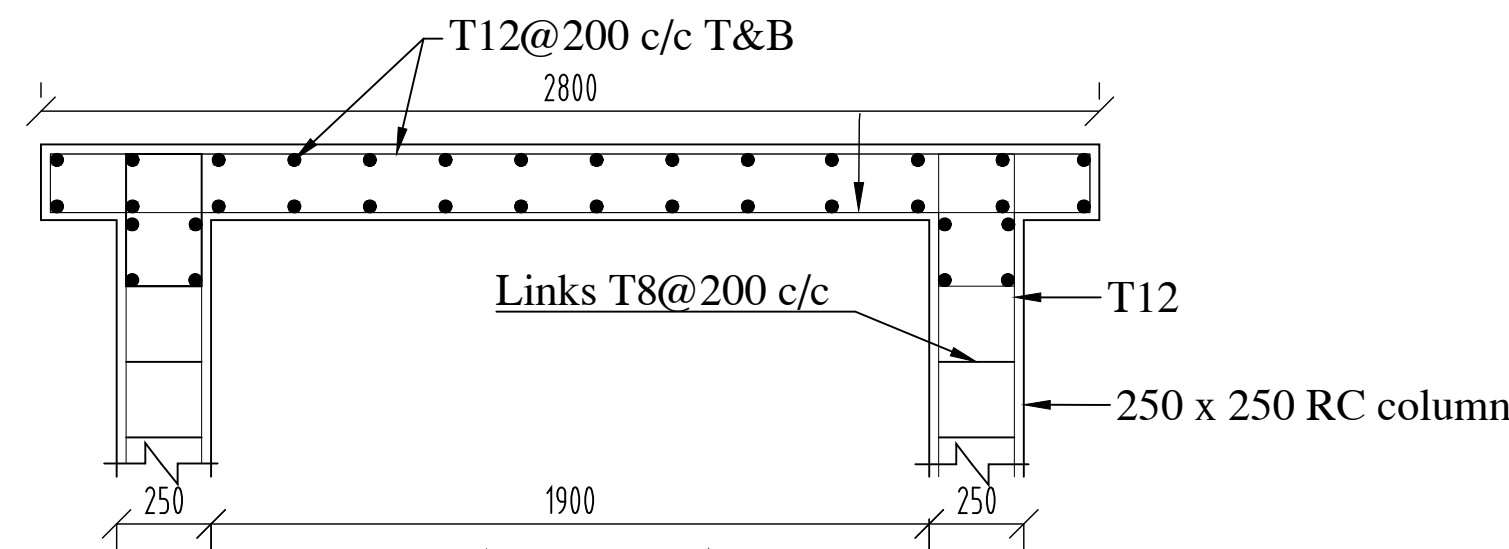
COLUMN BASES AND FOOTING LAYOUT DETAIL
SCALE 1:20



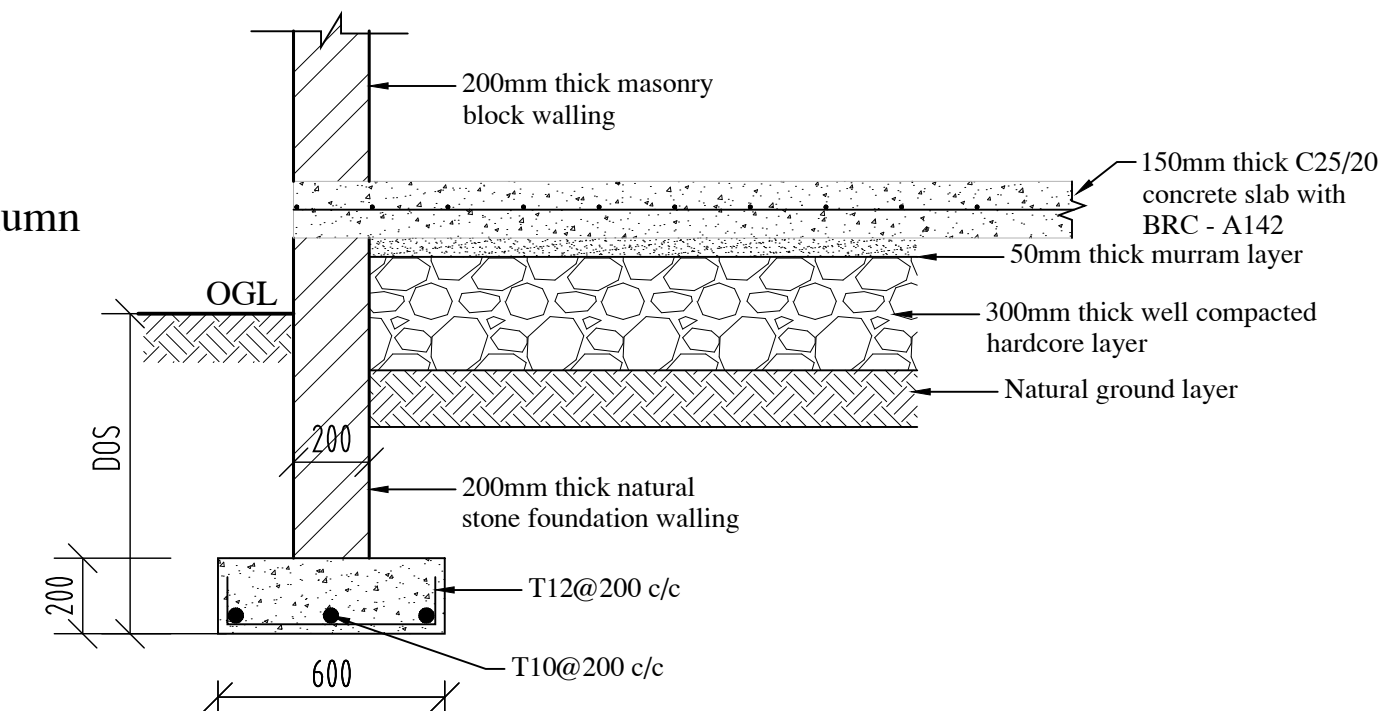
ROOF PLAN
SCALE 1:20



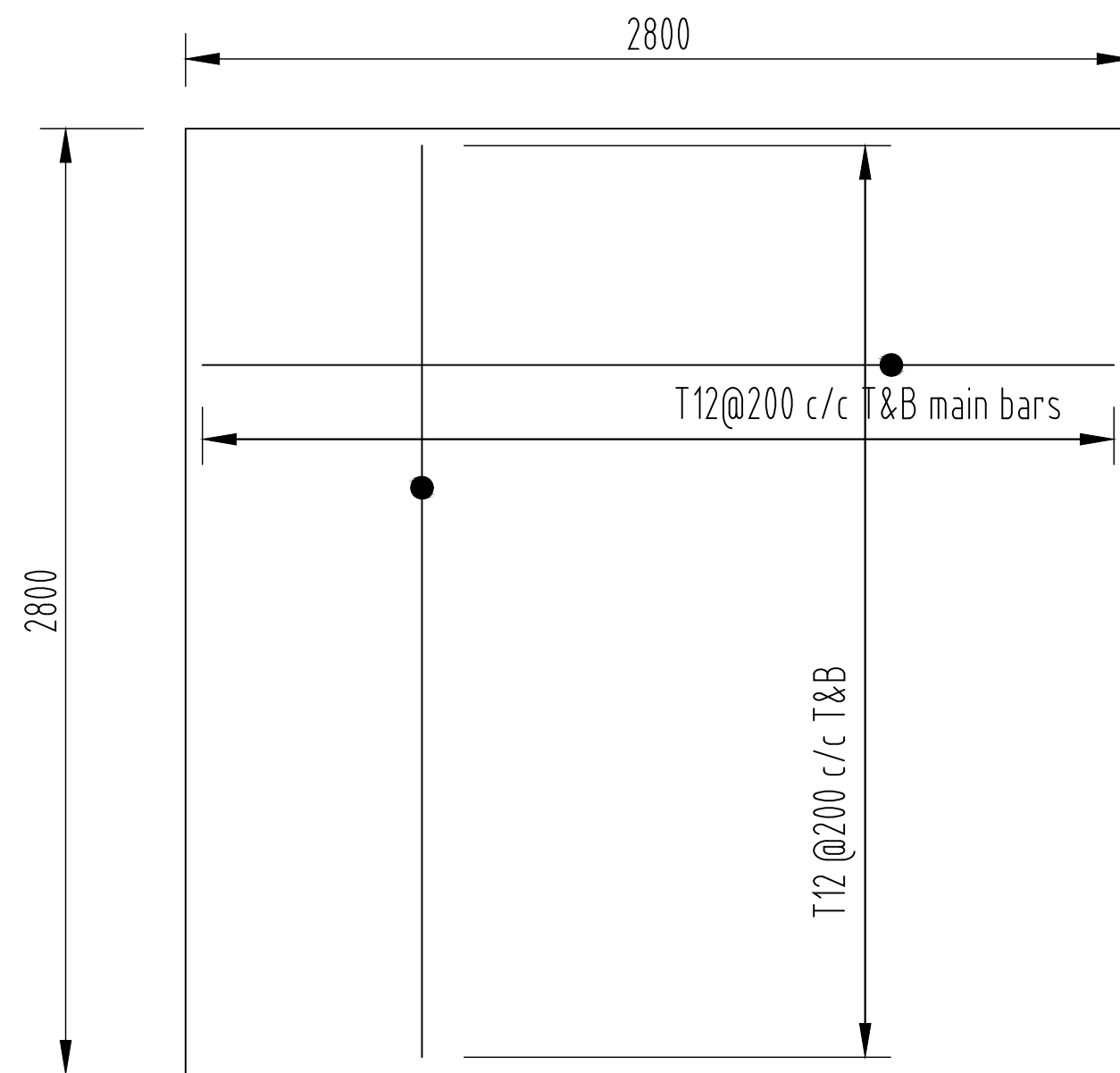
DETAIL FOR COLUMNS AND BASES
SCALE 1:20



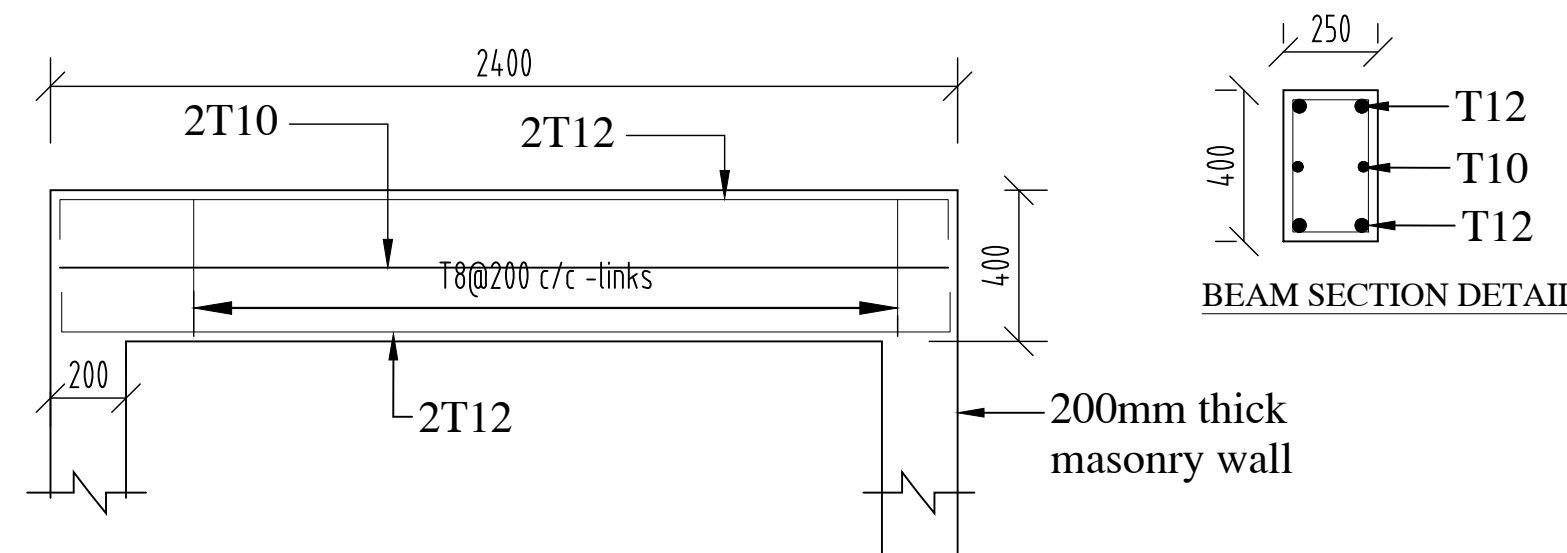
ROOF SLAB SECTION C-C
SCALE 1:20



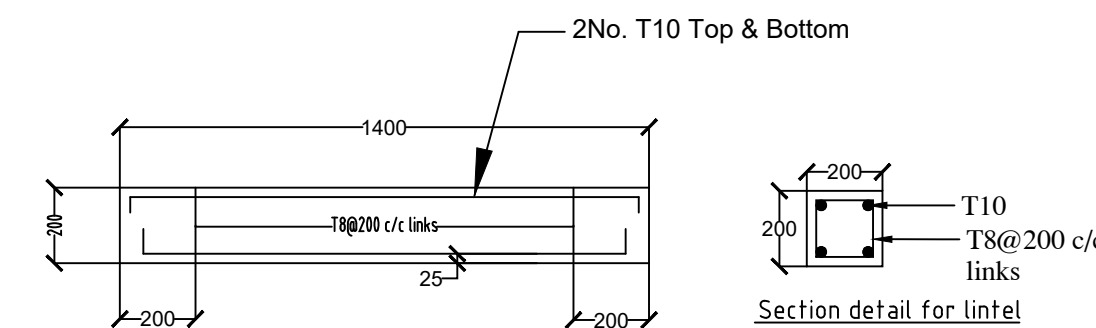
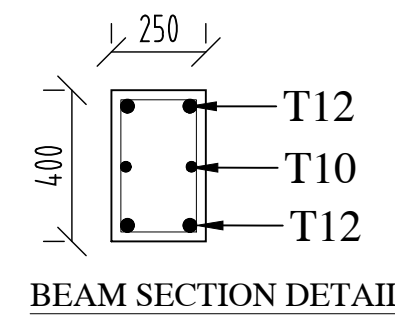
SLAB AND FOOTING SECTION DETAILS
SCALE 1:20



DETAIL FOR ROOF SLAB
SCALE 1:20



BEAM DETAIL



DETAIL OF LINTEL
SCALE 1:20

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. SCALE IS AS SHOWN

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:

Financing the Water Sector

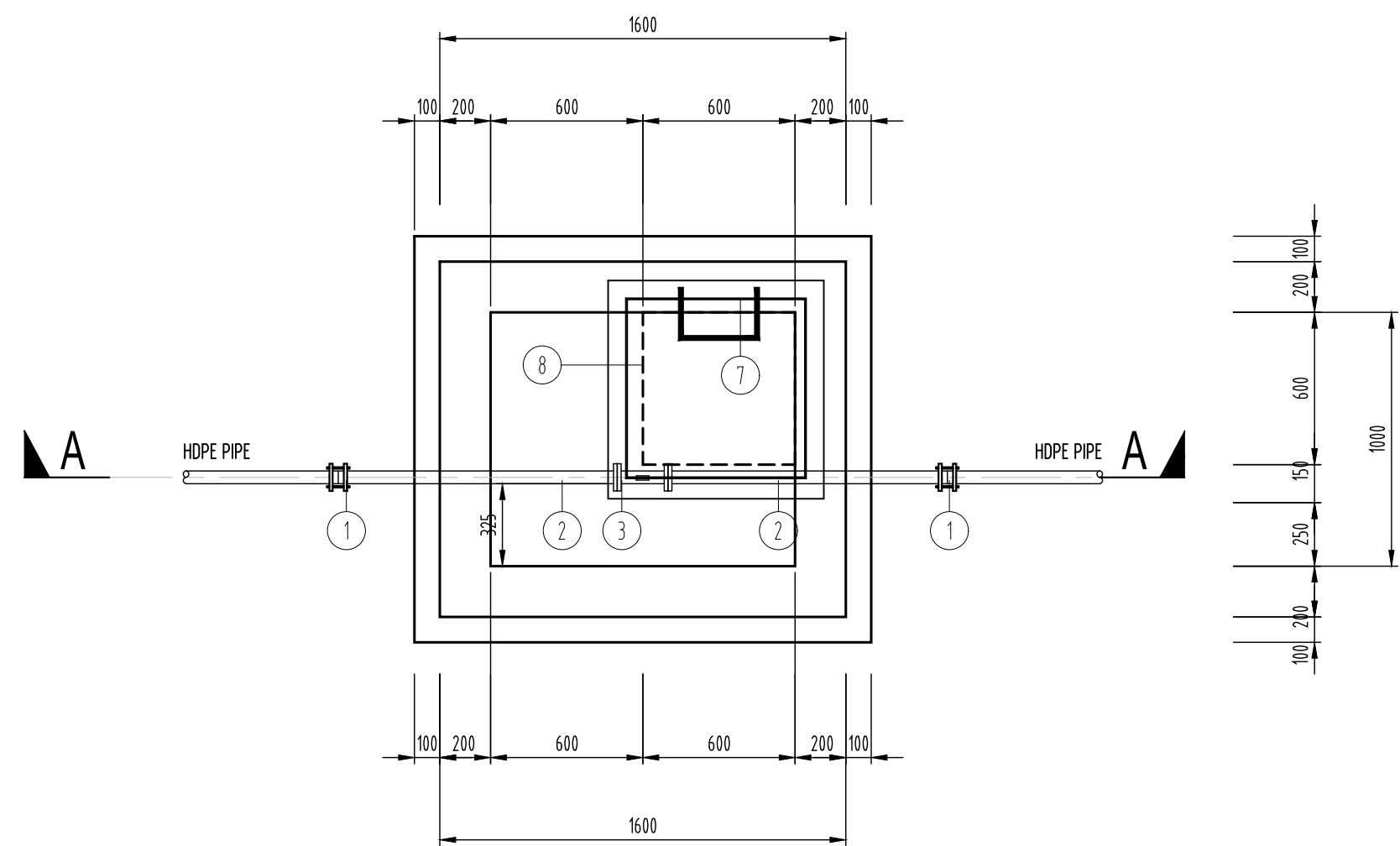
Financier:


Project:
**SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY**

Design Consultants:
 GATH CONSULTING ENGINEERS
MUTHANGARI DRIVE/OFF WAIYAKI WAY
P.O BOX 142791, 00800, NAIROBI, KENYA
TEL:254-020-4441473-4444837
EMAIL : gce@gathkenya.com

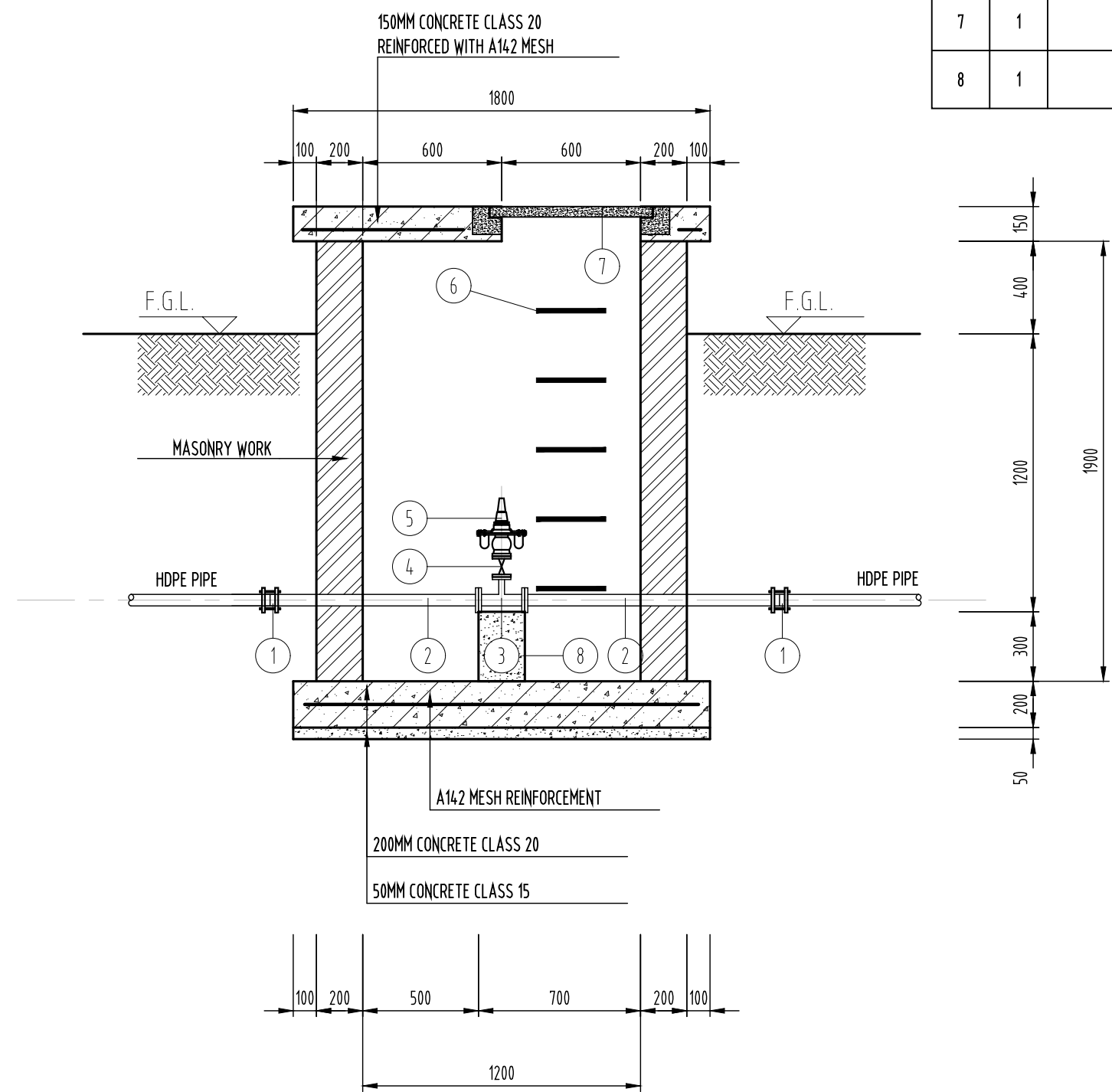
Drawing Title:
**PROPOSED SAOS-EMINING WK
WATER KIOSK**

Designed by	CVM	Drawn by	SMN
Checked by	EBO	Approved by	KNM
Scale	AS SHOWN	Date	December 2023
Job No.		ACAD File:	Saos
STATUS	0	DRAWING No.	0
		WATER KIOSK SHEET 2 OF 2	REV

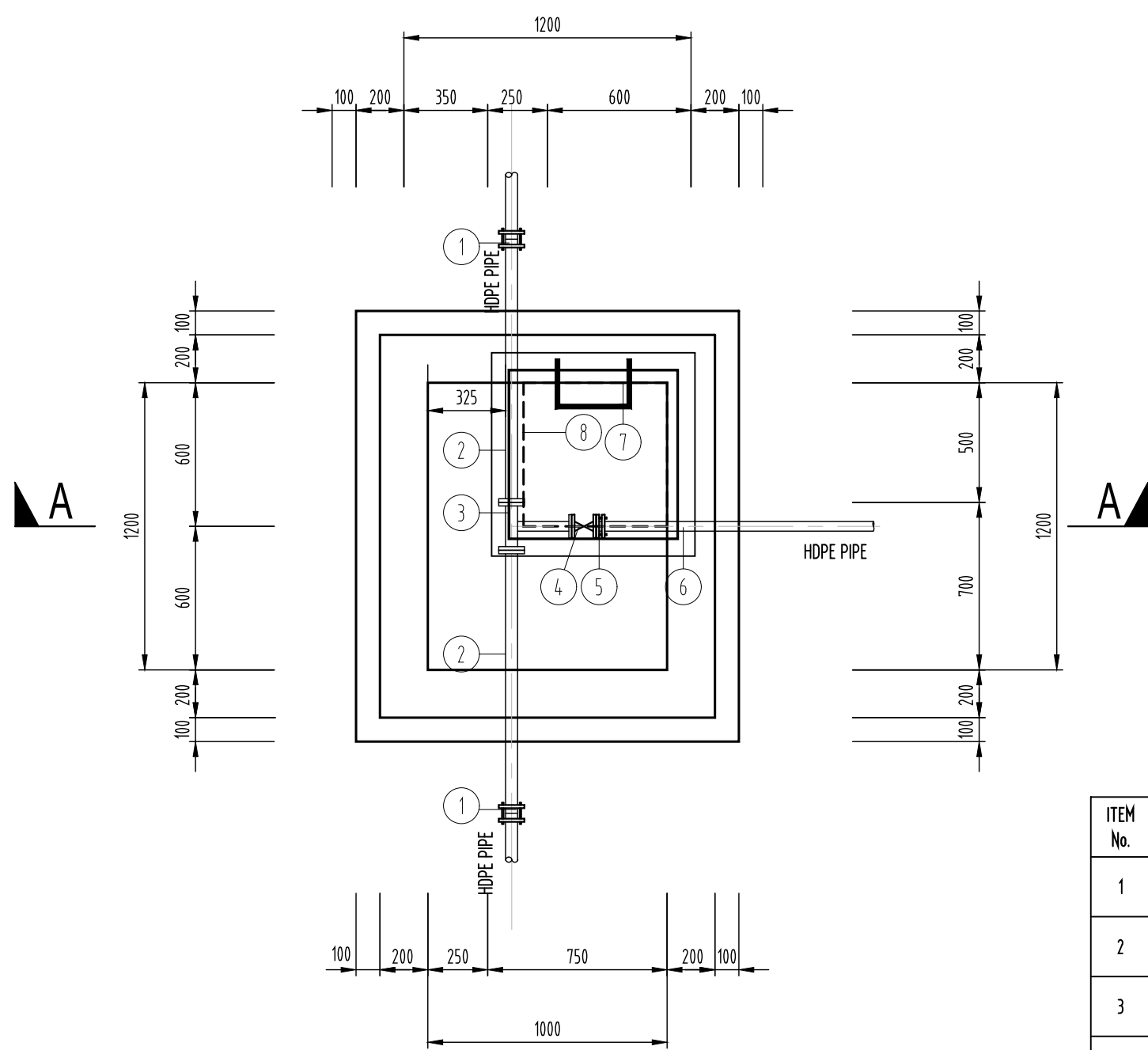


AIR VALVE CHAMBER
SCALE: 1:25

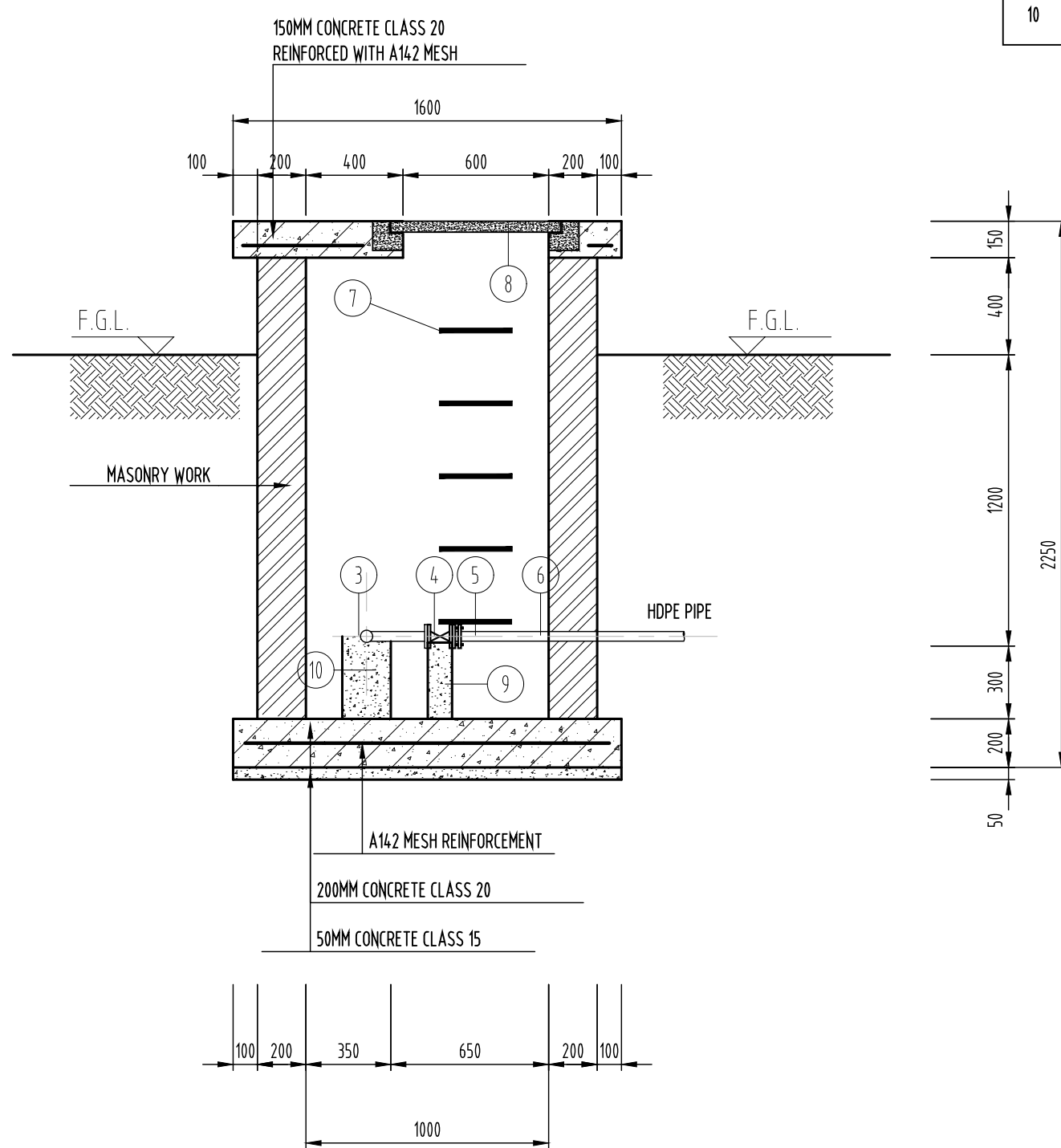
ITEM No.	Q'TY	DIA. (mm)	DESCRIPTION	SIZE/SKETCH
1	2	50	V.J. FLEXIBLE COUPLING	OD63xOD70mm
2	2	50	SINGLE FLANGED PIPE	1000
3	1	50x50	ALL FLANGED TEE	400
4	1	50	ALL FLANGED GATE VALVE	BS 5163, PN16 L=180mm
5	1	50	DOUBLE ORIFICE AIR VALVE	PN16
6	6		P.P. MANHOLE LADDER STEPS	280x200x20mm
7	1		COMPOSITE MATERIAL MANHOLE COVER WITH FRAME	700x700x45mm
8	1		CONCRETE SUPPORT (CLASS 15)	300x200x100mm



SECTION A-A
SCALE: 1:25



WASHOUT CHAMBER
SCALE: 1:25



SECTION A-A
SCALE: 1:25

MATERIAL LIST

ITEM No.	Q'TY	DIA. (mm)	DESCRIPTION	SIZE/SKETCH
1	2	50	V.J. FLEXIBLE COUPLING	OD63xOD70mm
2	2	50	SINGLE FLANGED PIPE	1000
3	1	50x50	ALL FLANGED LEVEL INVERT TEE	400
4	1	50	ALL FLANGED GATE VALVE	BS 5163, PN16 L=205mm
5	1	50	V.J. FLANGE ADAPTOR	DN80xOD90mm
6	1	50	HDPE PIPE (CLASS B)	
7	6		P.P. MANHOLE LADDER STEPS	280x200x20mm
8	1		COMPOSITE MATERIAL MANHOLE COVER WITH FRAME	700x700x45mm
9	1		VALVE STOOL (CLASS 15)	300x100x100mm
10	1		THRUST BLOCKS (CLASS 15)	

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
 - SCALE IS AS SHOWN

PRELIMINARY ISSUE

Signed: Team Leader

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
PROGRAMME IN BARINGO
COUNTY

Design Consultants:

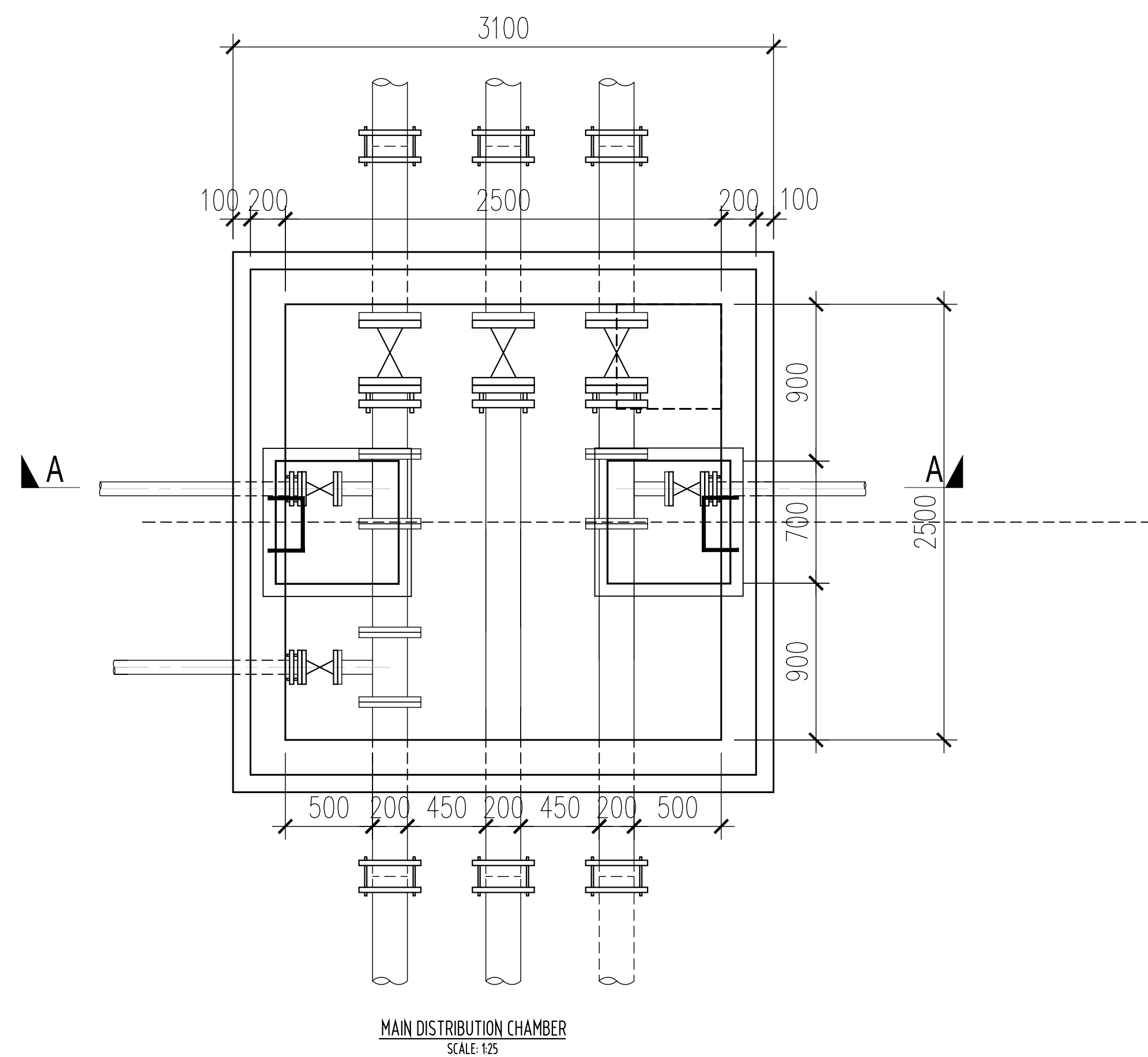
gath CONSULTING ENGINEERS
MUTHANGARI DRIVE/OFF WAIYAKI WAY
P.O BOX 14279, 00800, NAIROBI, KENYA
TEL: 254-020-4441473/4444837
EMAIL: gce@gathkenya.com

Drawing Title:

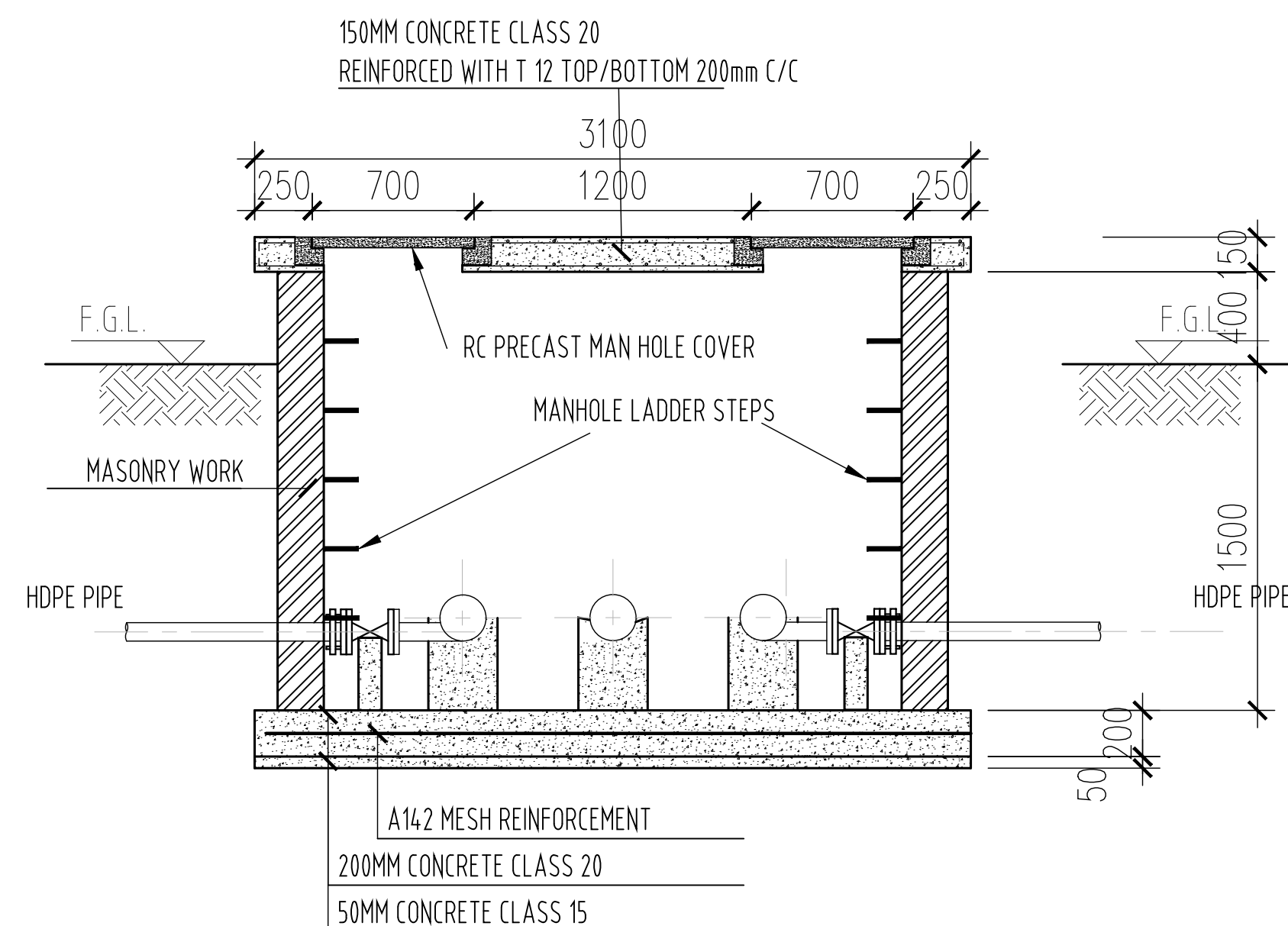
PROPOSED SAOS-EMINING CHAMBERS
AV & WO DETAILS

Designed by	CWM	Drawn by	SMN
Checked by	EBO	Approved by	KNM
Scale	AS SHOWN	Date	November 2023
Job No.		ACAD File:	Saos

STATUS	0	DRAWING No.	CHAMBERS SHEET 1 OF 2	0	REV
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MAIN DISTRIBUTION CHAMBER
SCALE: 1/25



SECTION A-A
SCALE: 1/25

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. SCALE IS AS SHOWN

PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			

Client:



Financing the Water Sector

Financier:



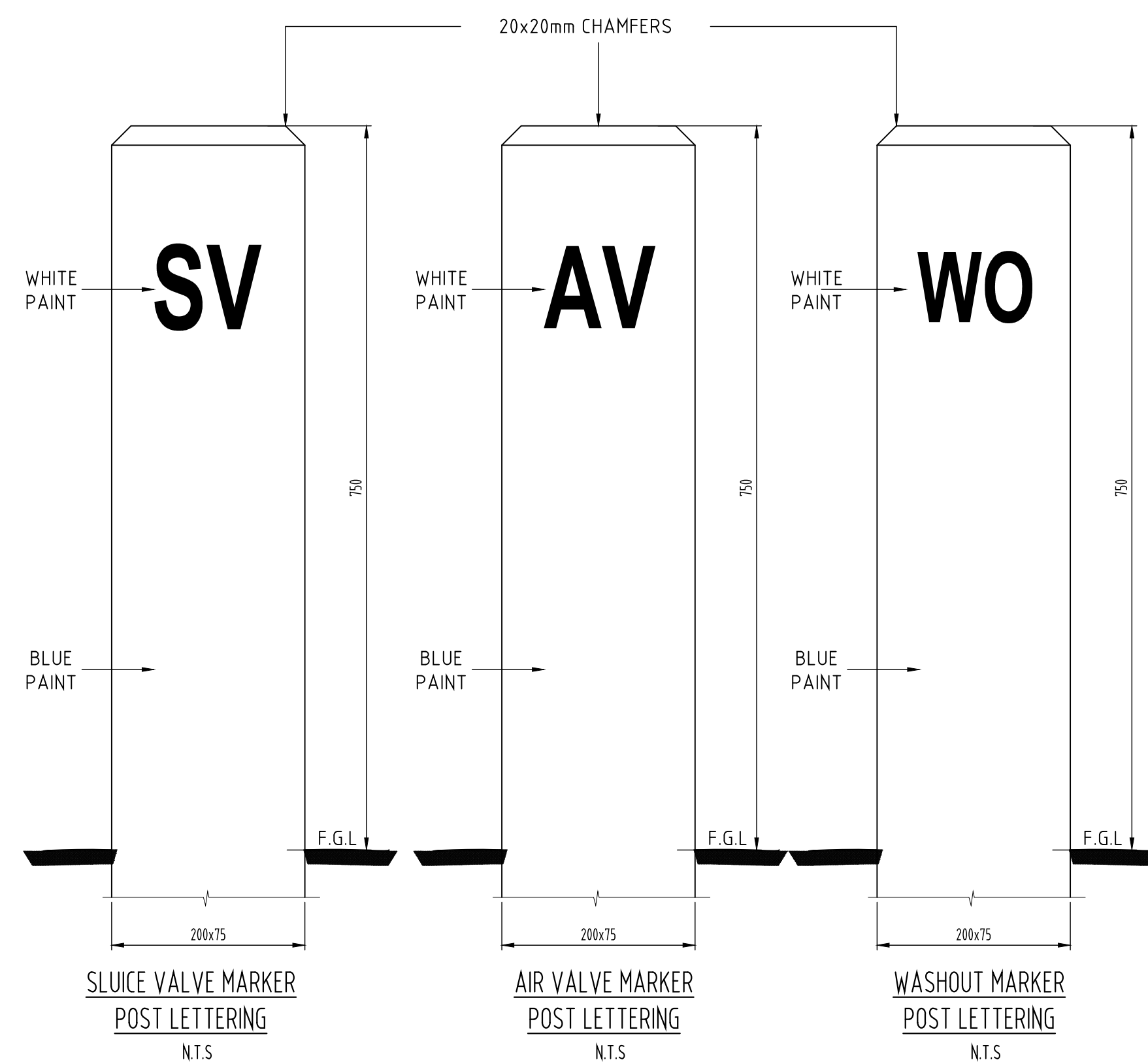
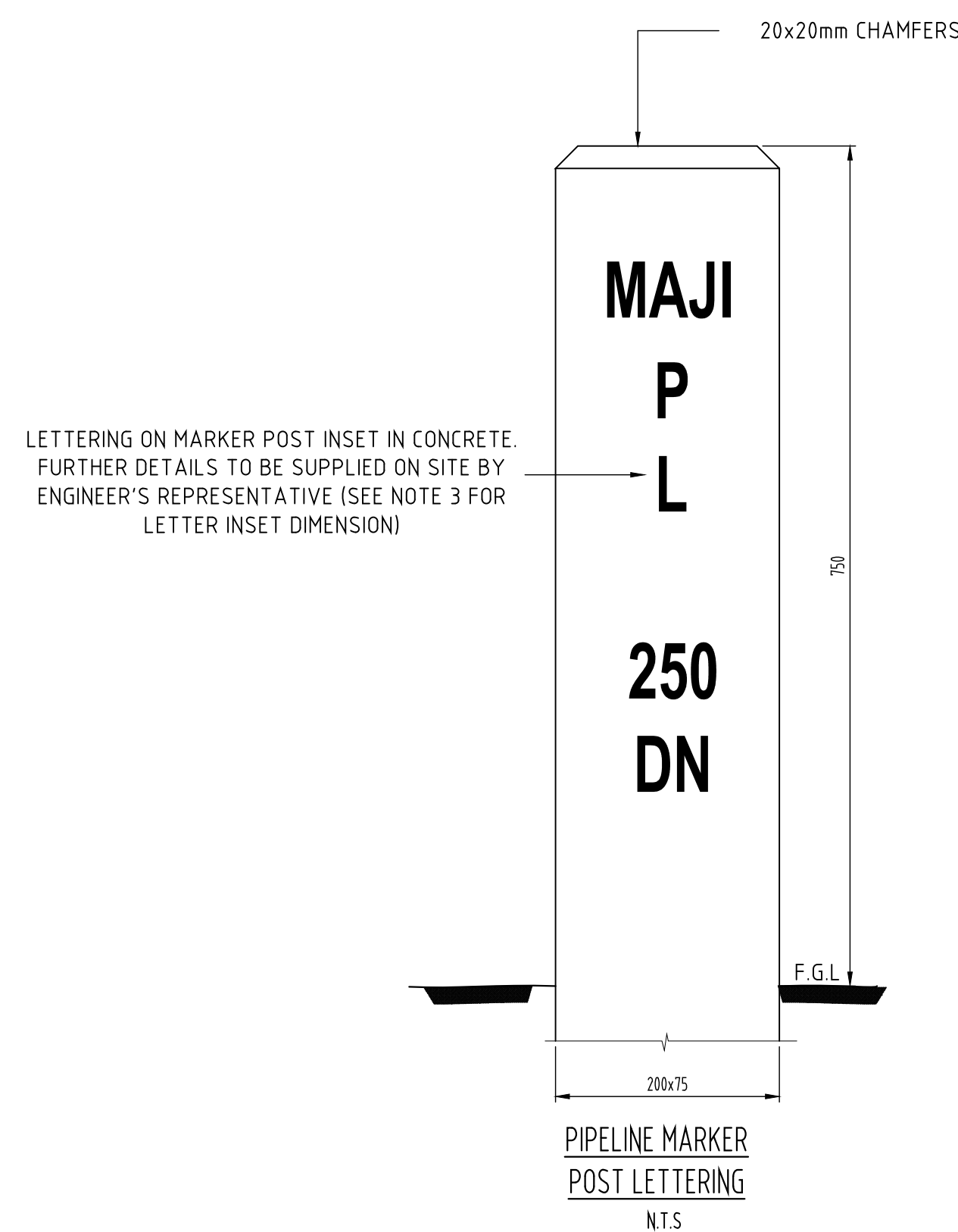
Project:
SAOS - UPPER EMINING
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UNDER EDE-CPIRA
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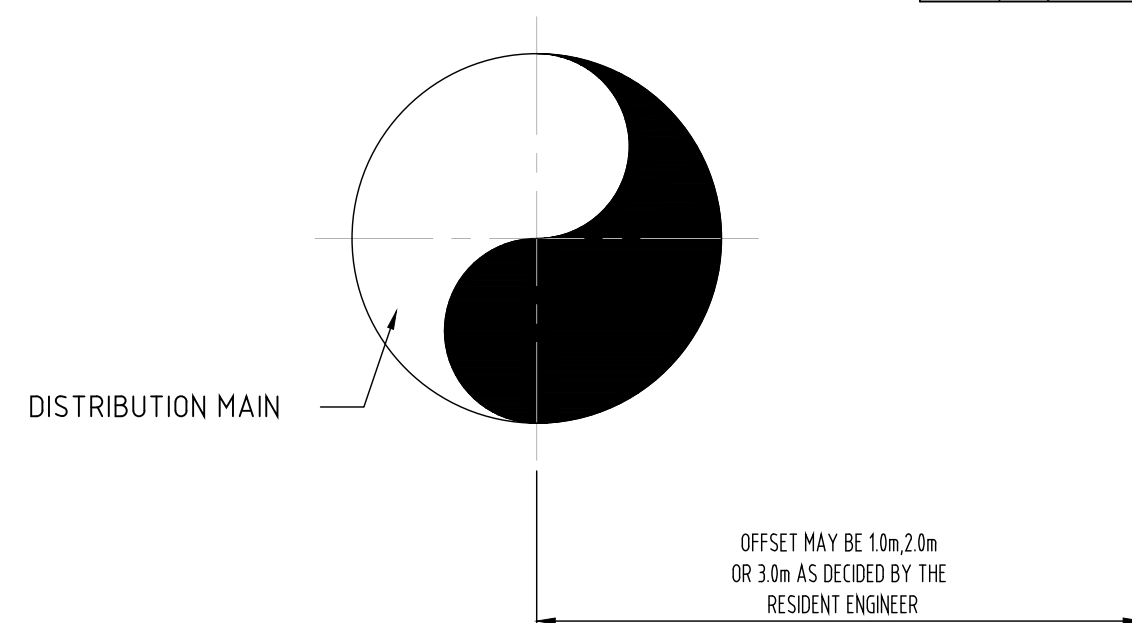
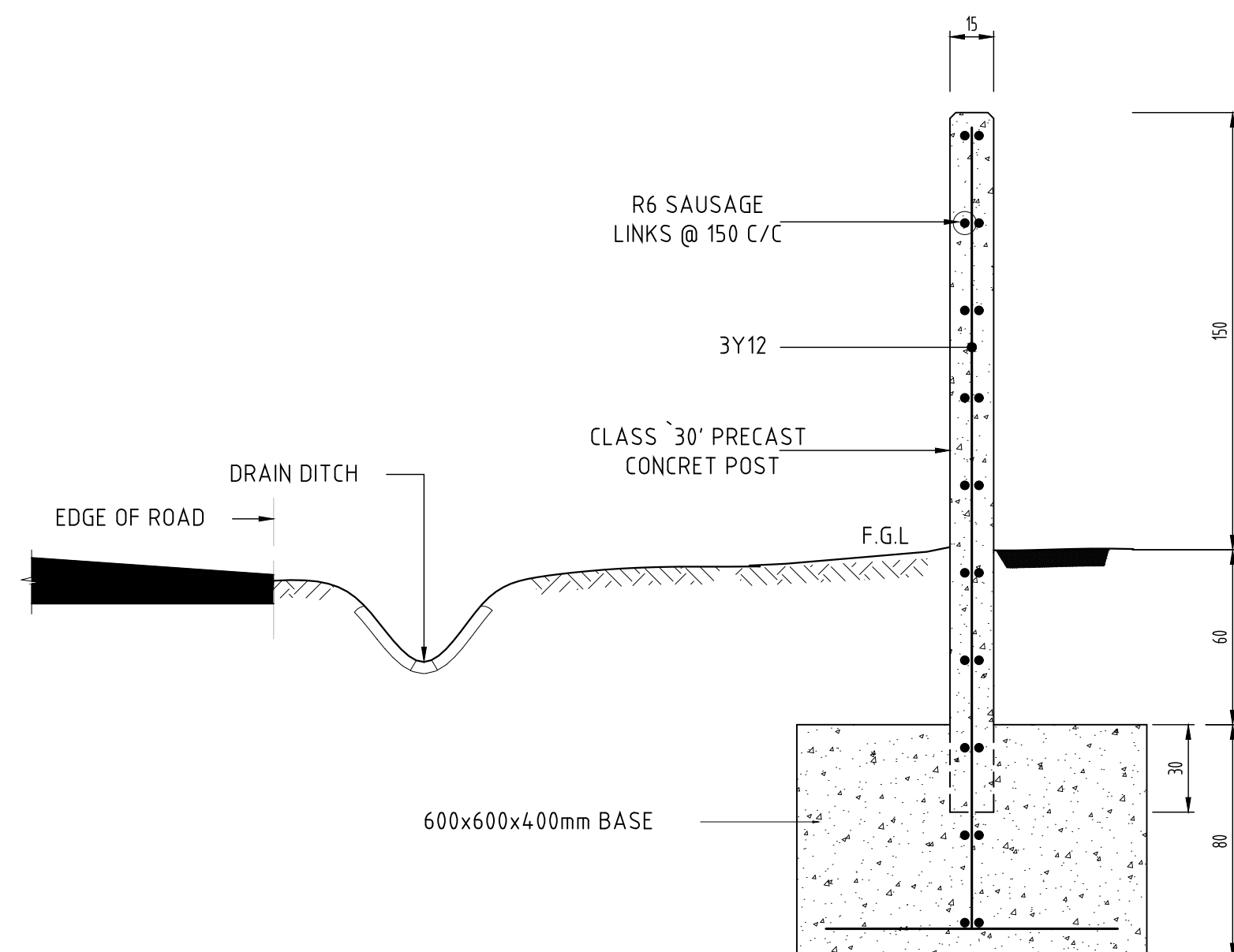
Drawing Title:

PROPOSED SAOS-EMINING CHAMBERS
MAIN DISTRIBUTION CHAMBER

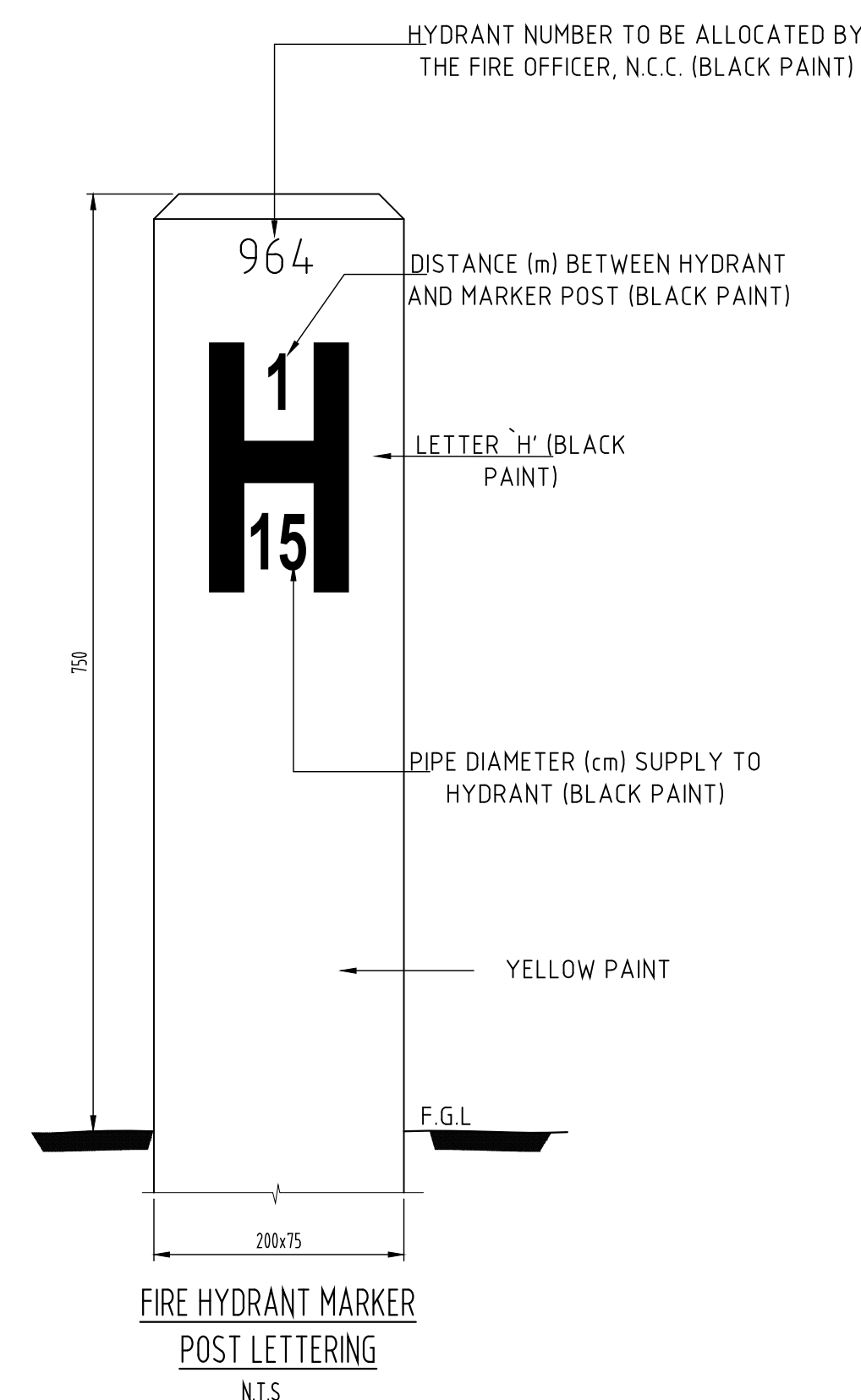
Designed by	CWM	Drawn by	SMN
Checked by	EBO	Approved by	KNM
Scale	AS SHOWN	Date	November 2023
Job No.		ACAD File:	Saos
STATUS	0	DRAWING No.	CHAMBERS SHEET 2 OF 2
		REV	0



MARKER POST ELEVATIONS
(SECTION SIMILAR TO MARKER POST FOR PIPELINE)



MARKER POST (FOR PIPELINE)
TYPICAL SECTION
N.T.S.



PRELIMINARY ISSUE
Signed: Team Leader

REV	REVISIONS		SIGN	DATE	APPROVED
	BY	CHECKED			

Client:



Financier:



Project:

SAOS - UPPER EMINING
WATER SUPPLY PROJECT
UNDER EDE-CPIRA
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Design Consultants:

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TEL: 254-020-4441473-4444837
EMAIL: gce@gathkenya.com

Drawing Title:

PROPOSED SAOS-EMINING
MARKER POSTS

Designed by	CWM	Drawn by	SMN
Checked by	EBO	Approved by	KNM
Scale	AS SHOWN	Date	December 2023
Job No.		ACAD File:	Saos

STATUS	0	DRAWING No.	MARKER POSTS SHEET 1 OF 1	REV	0
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