



**MINISTRY OF WATER, SANITATION
AND IRRIGATION**

**IRRIGATION AND DRAINAGE
DEPARTMENT**

PROJECT: Kanyenyaini Irrigation Project

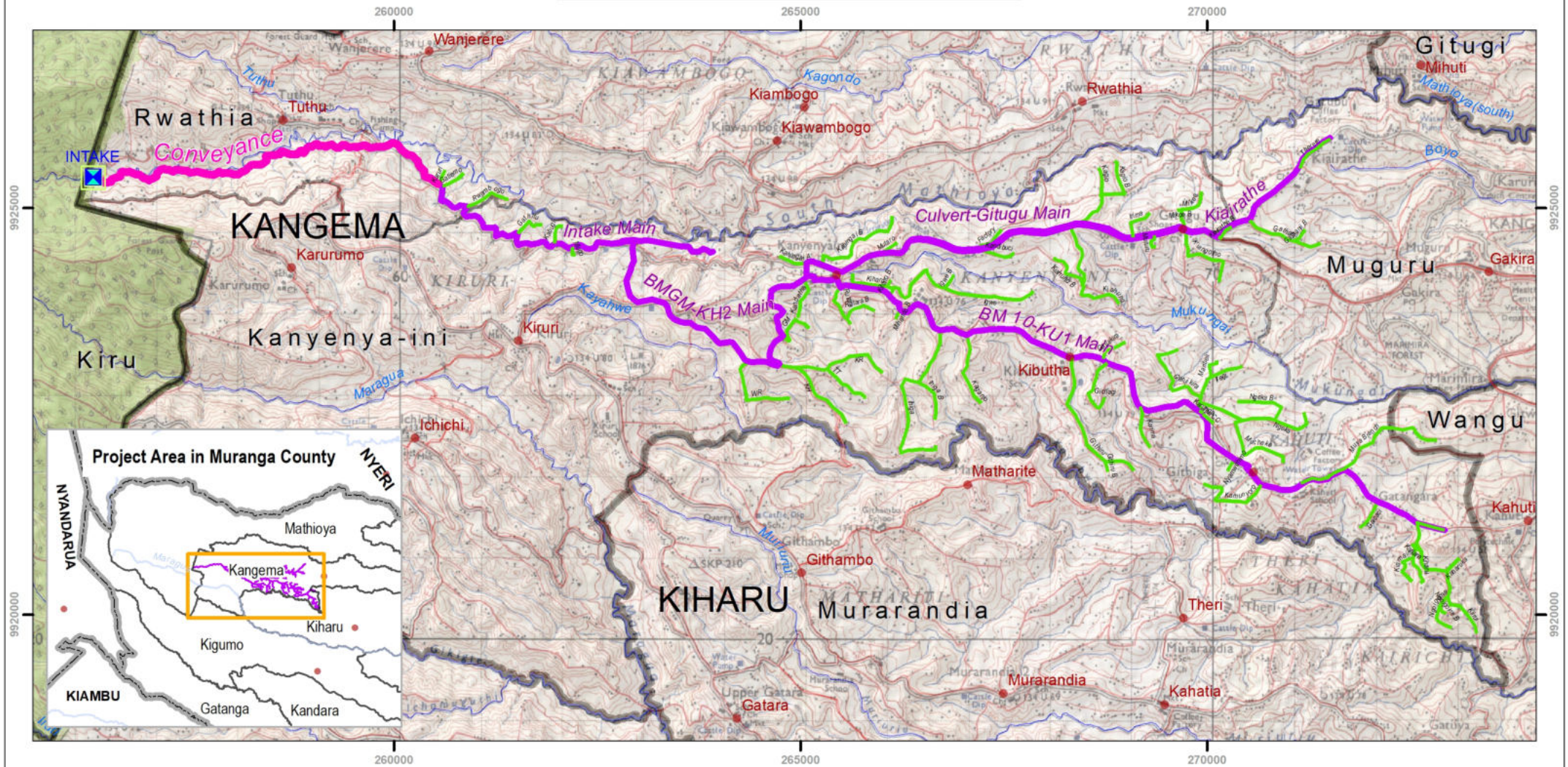
**TENDER: Tender for Construction Works for Kanyenyaini Irrigation Project,
Murang'a County**

TENDER DOCUMENTS

VOLUME II OF II

KANYENYAINI IRRIGATION SCHEME LAYOUT

Kanyenyaini Irrigation Project



Infrastructure

- Conveyance
- Main
- Lateral



INTAKE



Wards



Constituencies

• Towns

— Roads

— Rivers



Kilometers
0 0.5 1 2



Ministry of Water & Sanitation
and Irrigation

Irrigation and Drainage
Department

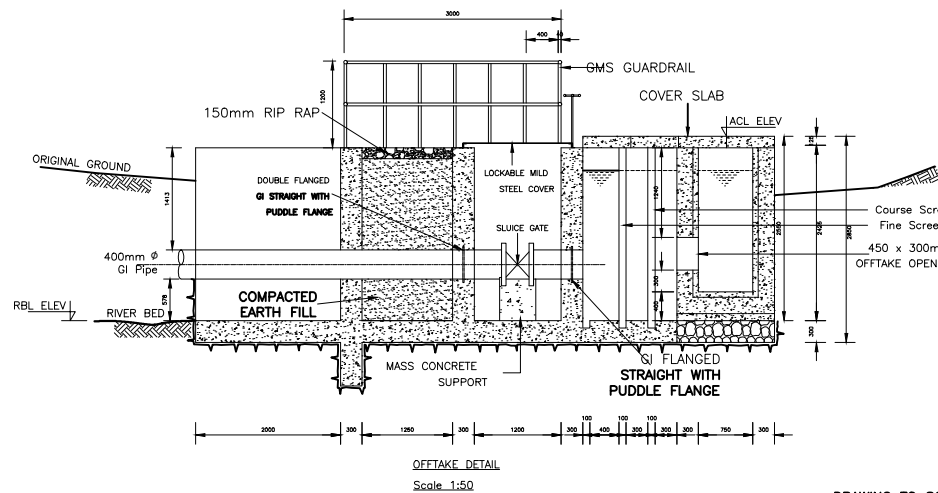
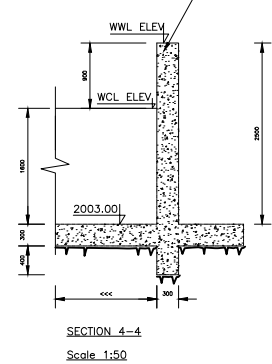
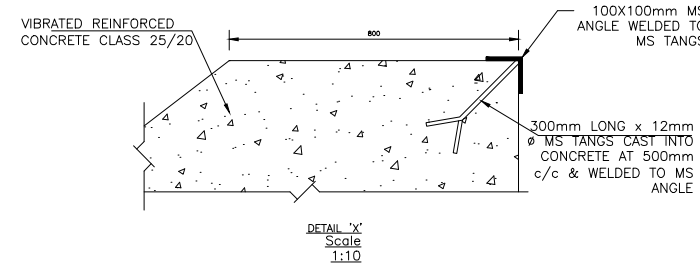
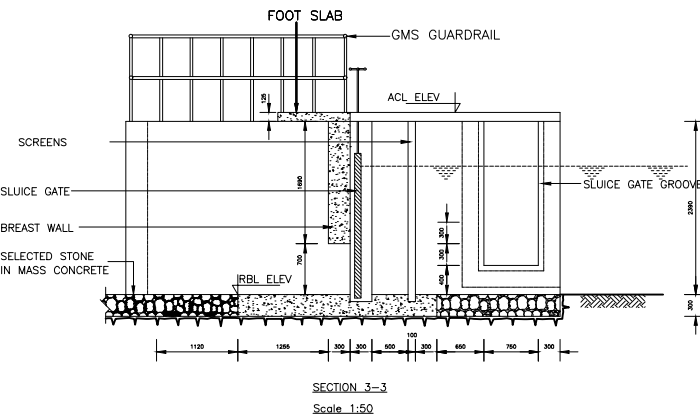
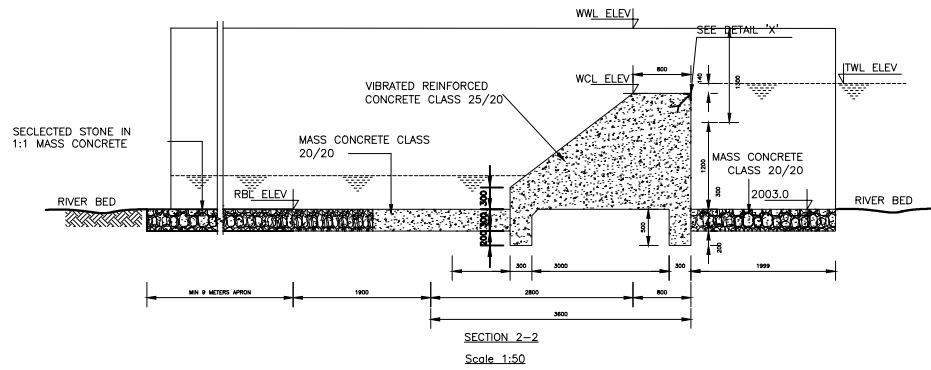
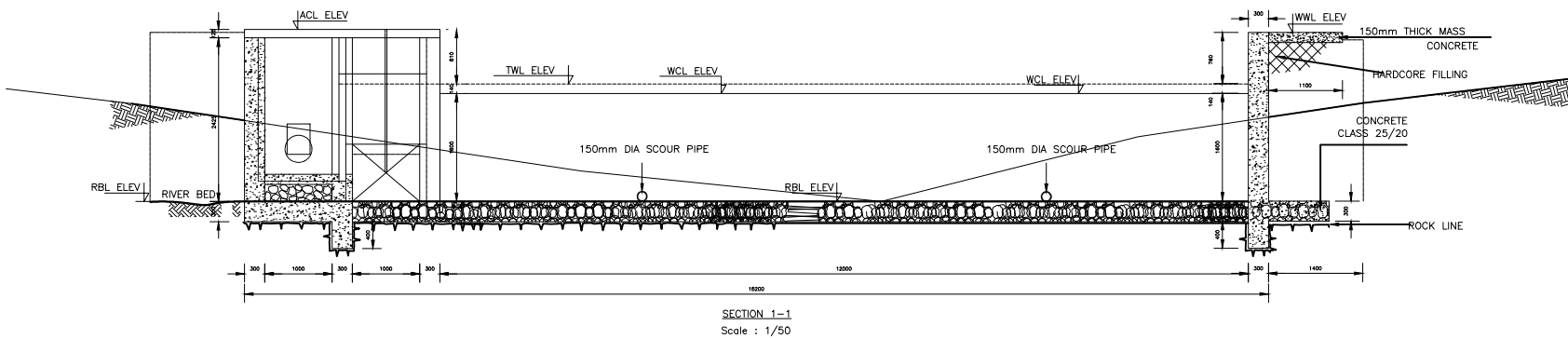
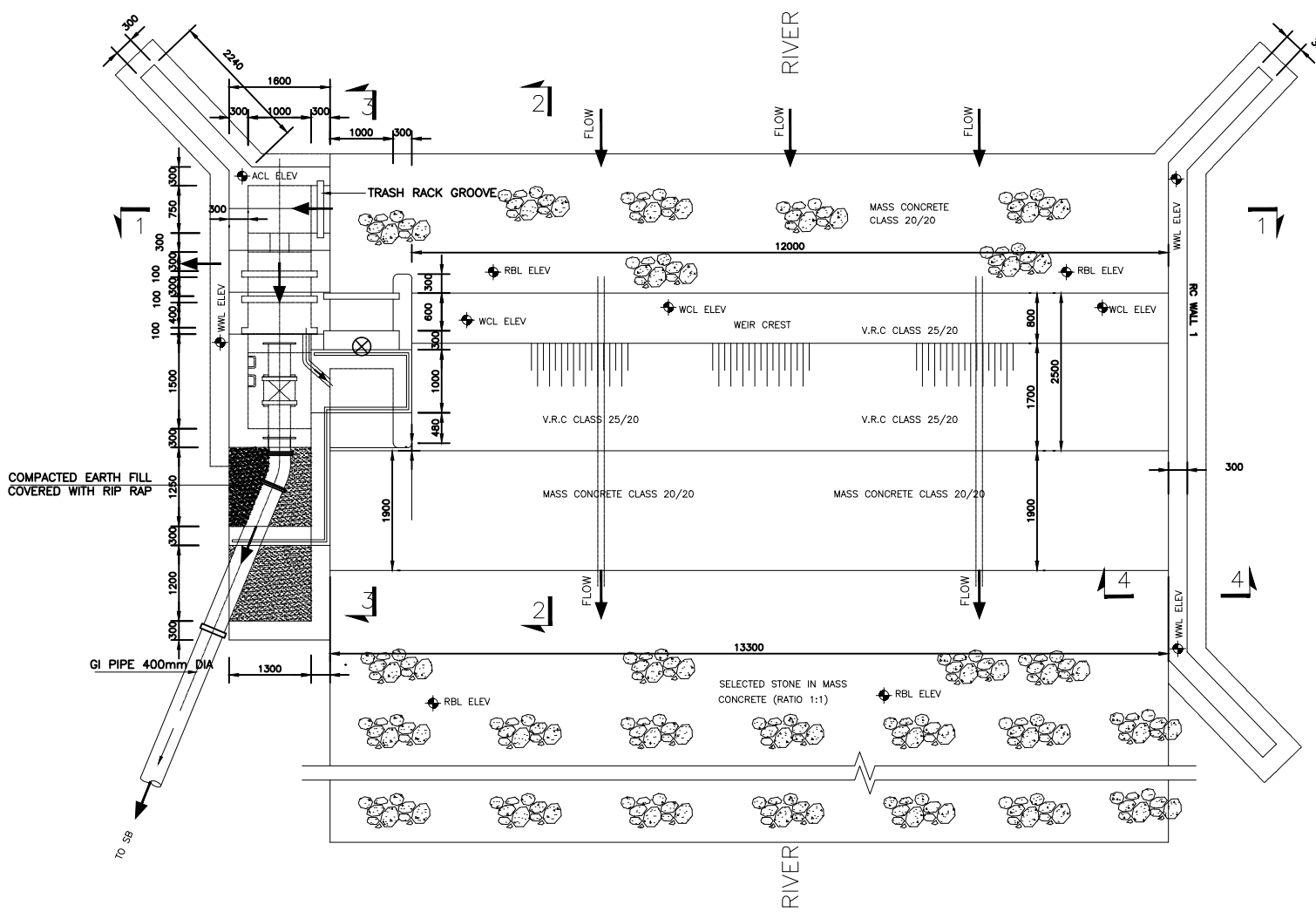
Layout Map

KANYENYAINI STANDARD DRAWINGS

INTAKE WORKS

NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS.
2. ALL LEVELS SHOWN ON THIS DRAWINGS TO BE CONFIRMED ON SITE AND ANY DISCREPANCY TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
3. DRAWING TO SCALE IN A1 SIZE
4. ALL DIMENSION IN MILLIMETRES (mm) UNLESS OTHERWISE STATED.
5. ALL CONCRETE FOR MAIN STRUCTURE TO BE CLASS 25/20 AND WATERPROOF UNLESS OTHERWISE STATED.
6. 75mm THICK CONCRETE CLASS 15/20 TO BUNDING TO BE PROVIDED BEFORE PLACING CONCRETE TO ALL STRUCTURES.
7. CONTRACTOR SHALL ATLEAST TAKE 3NOS CUBE TESTS FOR EACH DAY OF CONCRETING AND SHALL FURNISH THE ENGINEER WITH 7TH AND/OR 28TH DAY STRENGTH RESULTS.



DRAWING TO SCALE IN A1 SIZE

REV. No.	DESCRIPTION	DATE

CLIENT	 NATIONAL IRRIGATION AUTHORITY
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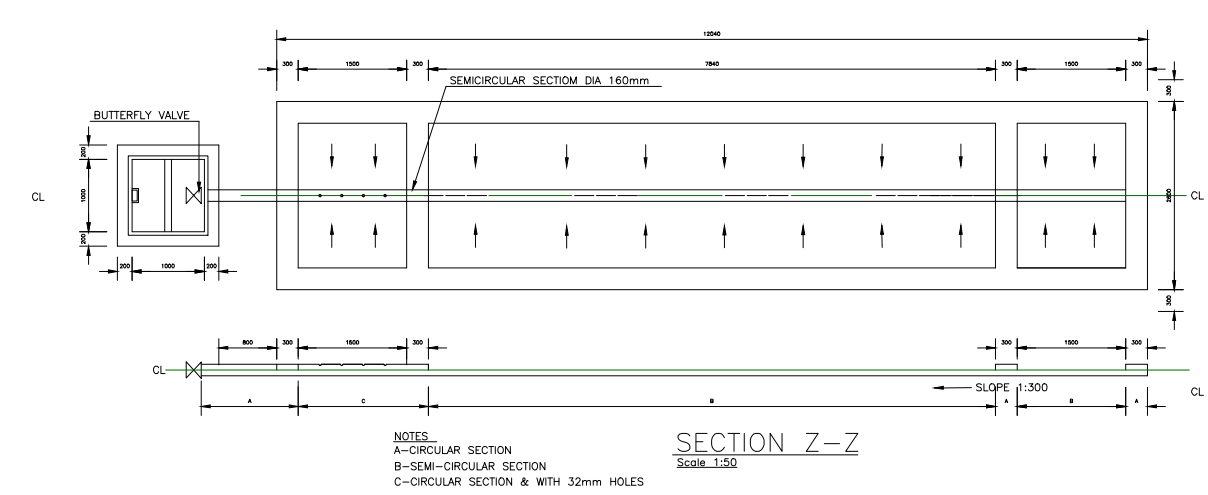
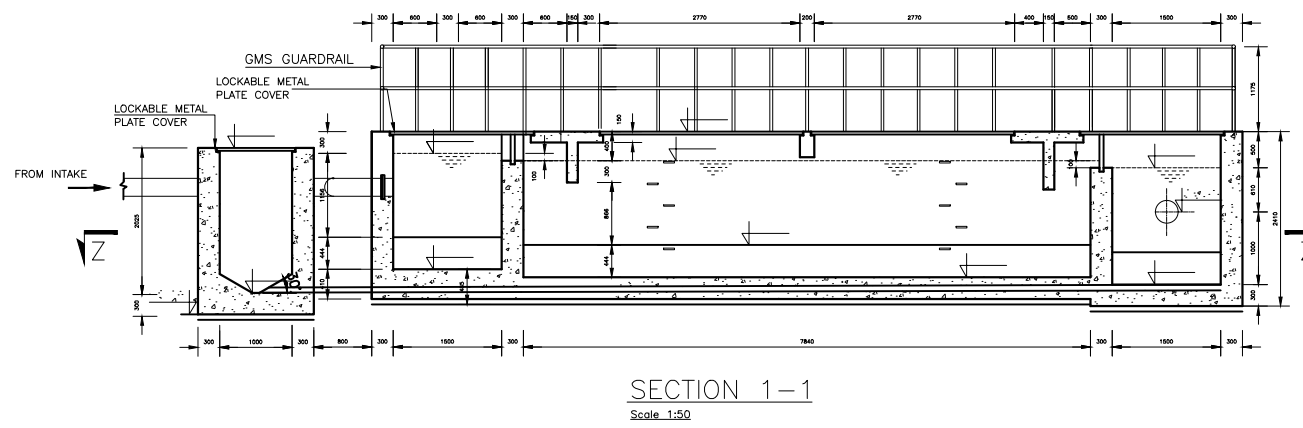
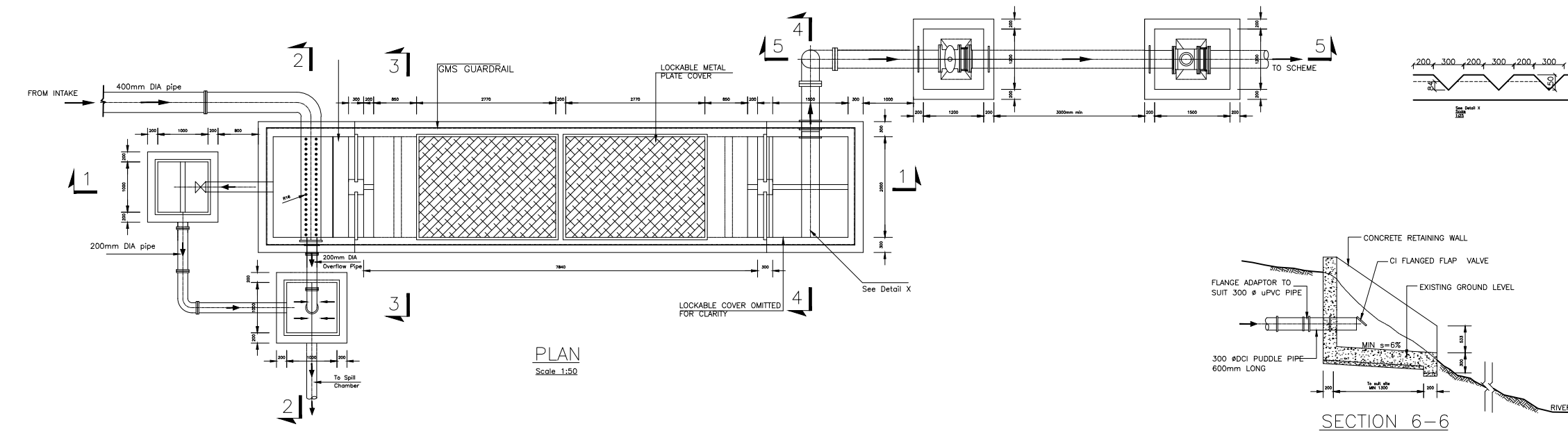
CONSULTANT

PROJECT
KANYANYE-INI IRRIGATION PROJECT MURANG'A COUNTY

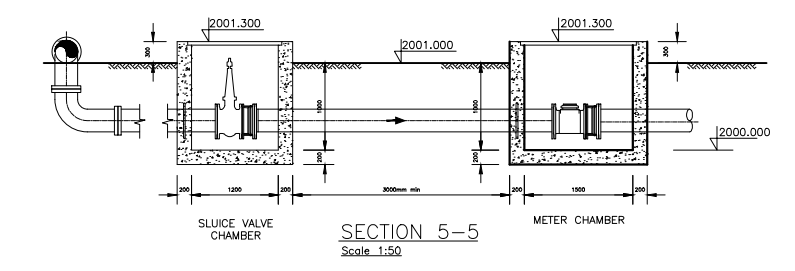
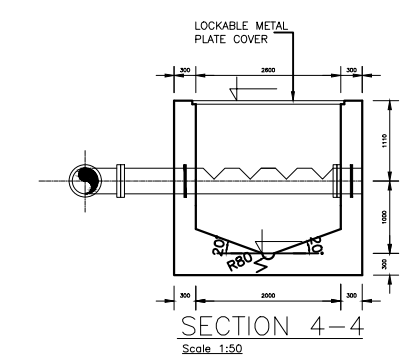
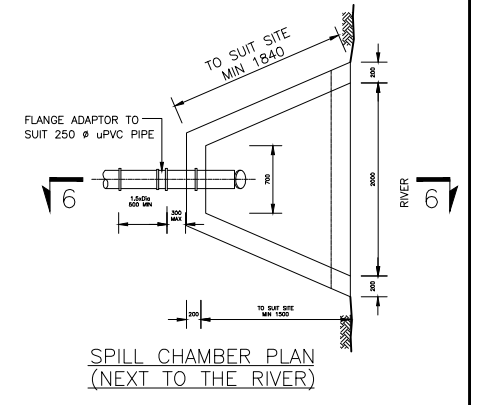
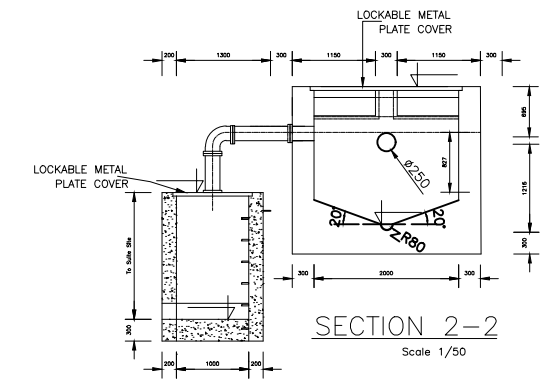
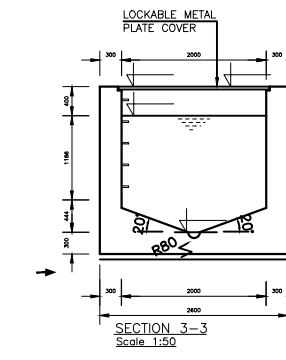
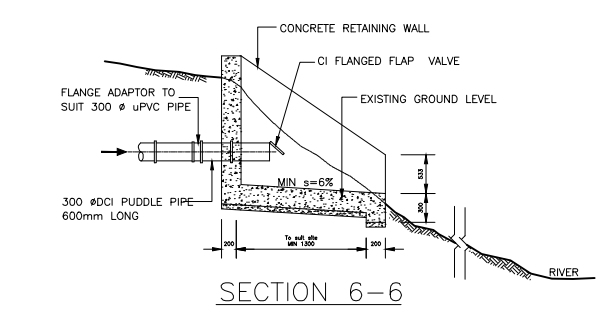
DRG TITLE
INTAKE WORKS' PLAN AND SECTIONAL DETAILS

Date:	JUNE 2021	JOB No.	
DESIGNED:	P.TIPIS	Sheet 1 of 2	
Drawn:	MMNEPH		
Checked:	ENG KARANGU		
Approved:	ENG KARANGU	DRG. No.	
Scale:	AS SHOWN	01/MID/NIA/2021	REV

SEDIMENTATION WORKS



NOTES
A-CIRCULAR SECTION
B-SEMI-CIRCULAR SECTION
C-CIRCULAR SECTION & WITH 32mm HOLES



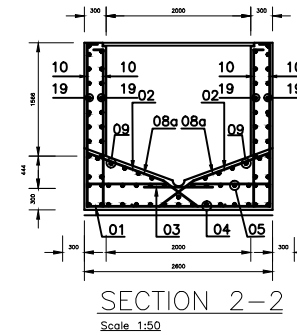
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DRAWING TO SCALE IN A1 SIZE

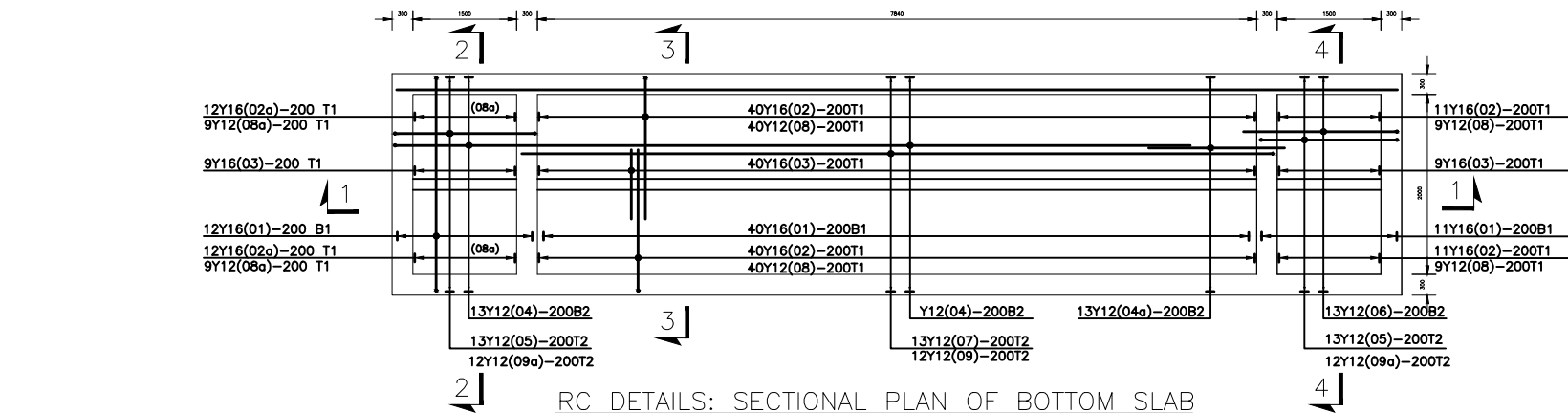
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		Drawn:		MMNEPH					
		Checked:		ENG KARANGU					
		Approved:		ENG KARANGU			DRG No.		
		Scale:		AS SHOWN			02/MID/NIA/2021	REV	

NOTES

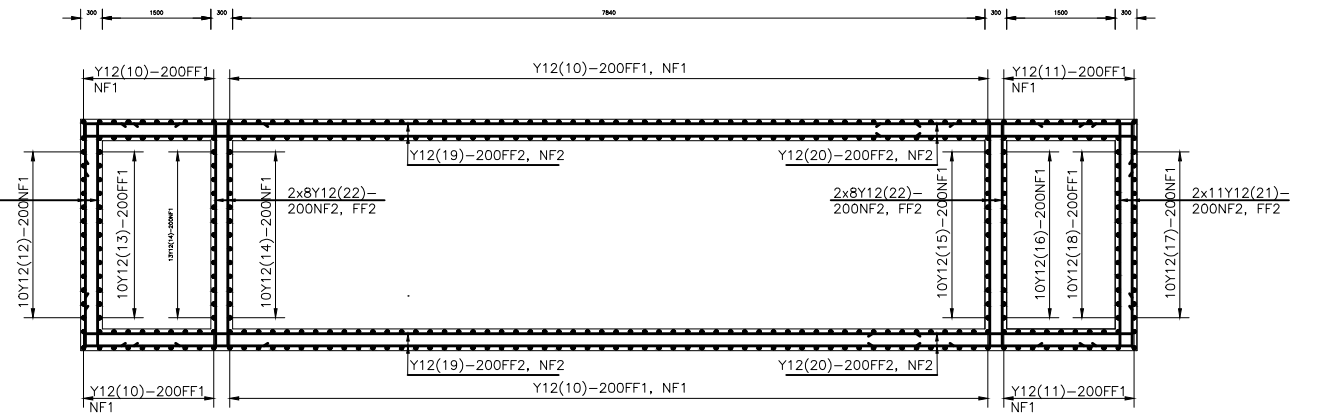
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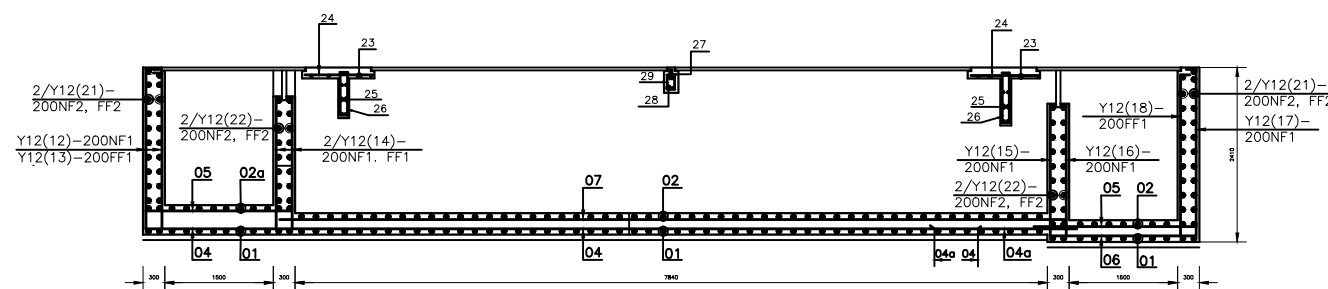
RC DETAILS: SECTIONAL PLAN OF BOTTOM SLAB
Scale 1:50



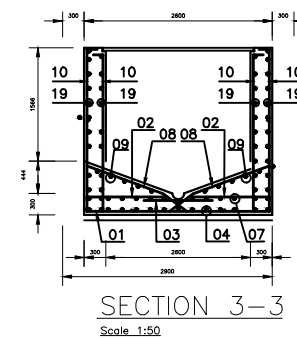
SECTION 1-1
Scale 1:50



RC DETAILS: SECTIONAL PLAN OF RC WALLS
Scale 1:50



SECTION 1-1
Scale 1:50



SECTION 3-3
Scale 1:50

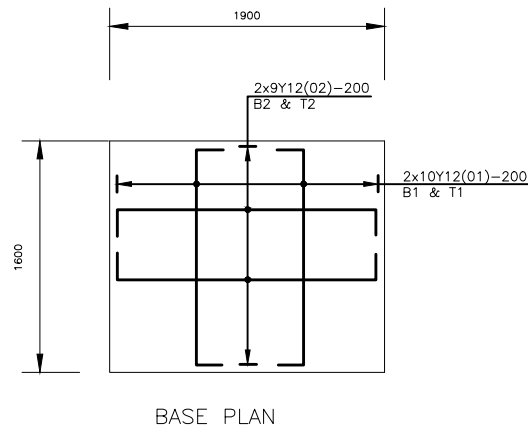
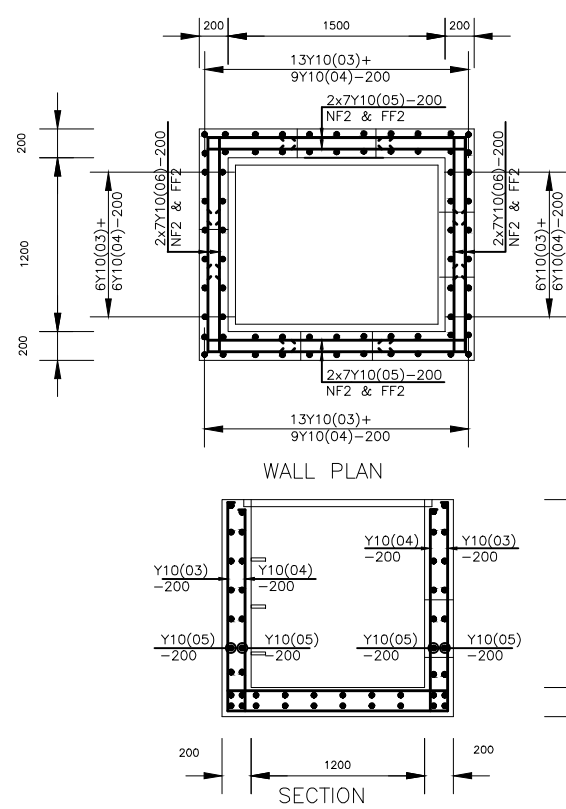
DRAWING TO SCALE IN A1 SIZE

REV. No.	DESCRIPTION	DATE

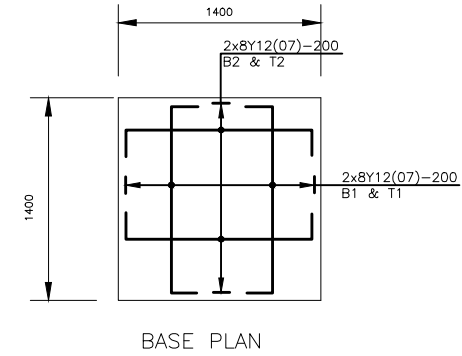
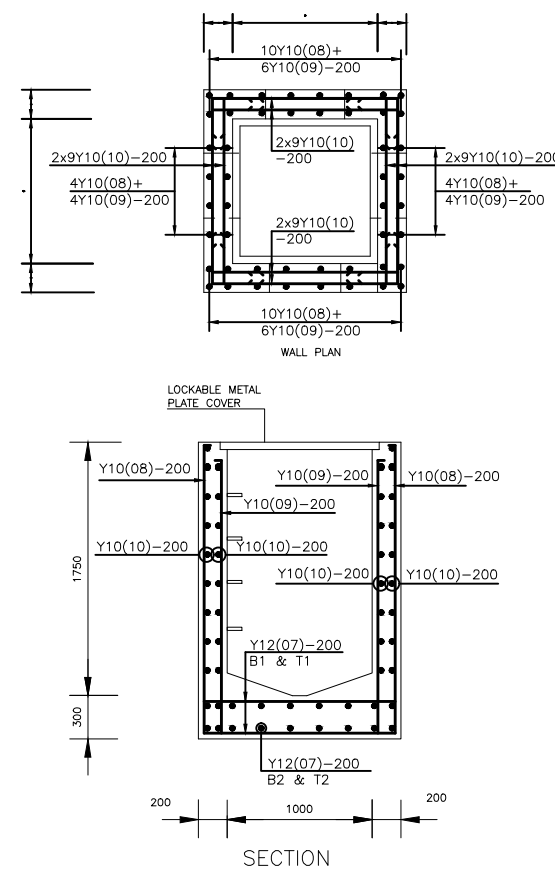
CLIENT	CONSULTANT	PROJECT	DRG TITLE
 NATIONAL IRRIGATION AUTHORITY		KANYANYE-INI IRRIGATION PROJECT MURANG'A COUNTY	SEDIMENTATION BASIN WORKS REINFORCEMENT DETAILS

Date:	JUNE 2021	JOB No.	
DESIGNED:	P.TIPIS	Sheet 2 of 3	
Drawn:	MMNEPH		
Checked:	ENG. KARANGU		
Approved:	ENG. KARANGU	DRG. No.	
Scale:	AS SHOWN	02/MID/NIA/2021	REV

**TYPICAL METER
CHAMBER DETAILS**
Scale 1:25

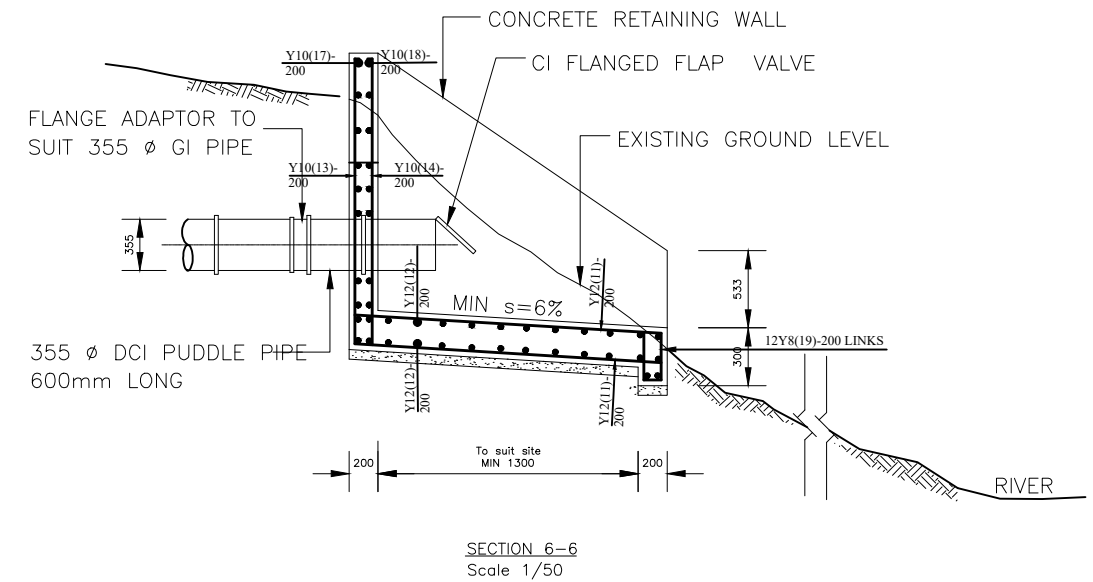
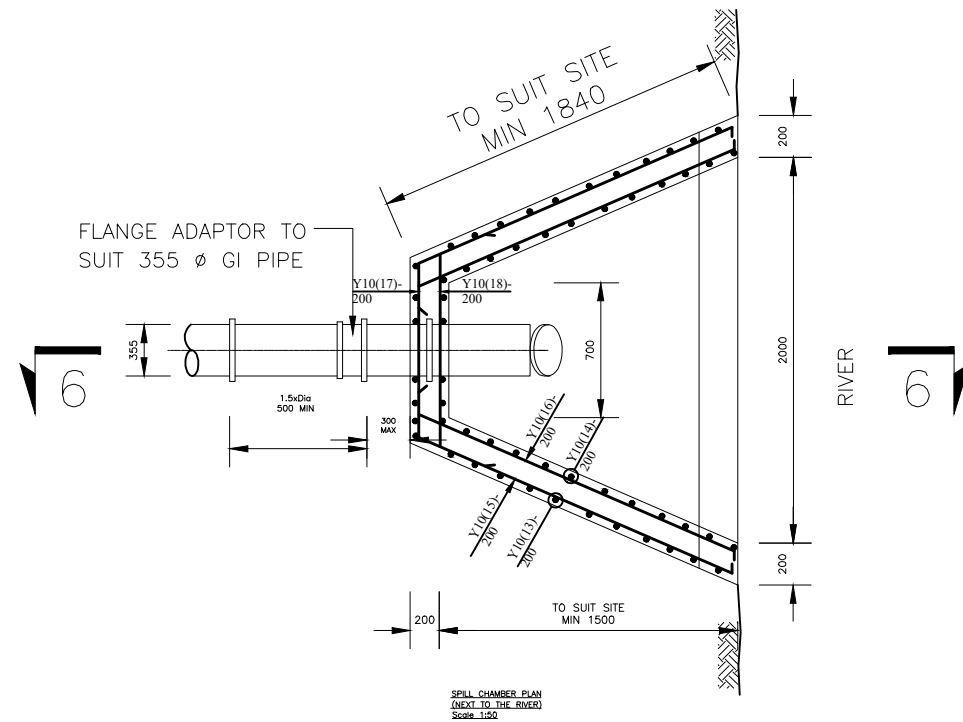
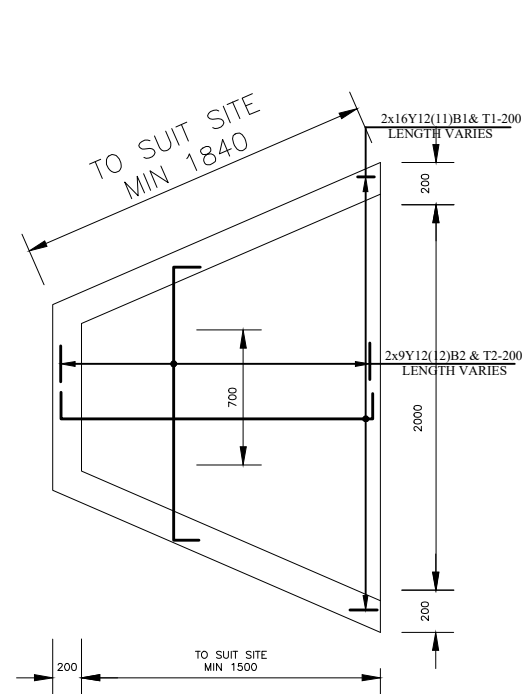


**TYPICAL DRAIN
CHAMBER DETAILS**
Scale 1:25



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DRAWING TO SCALE IN A1 SIZE

REV. No.	DESCRIPTION	DATE

CLIENT



**NATIONAL IRRIGATION
AUTHORITY**

CONSULTANT

PROJECT

**KANYANYE-INI IRRIGATION
PROJECT**

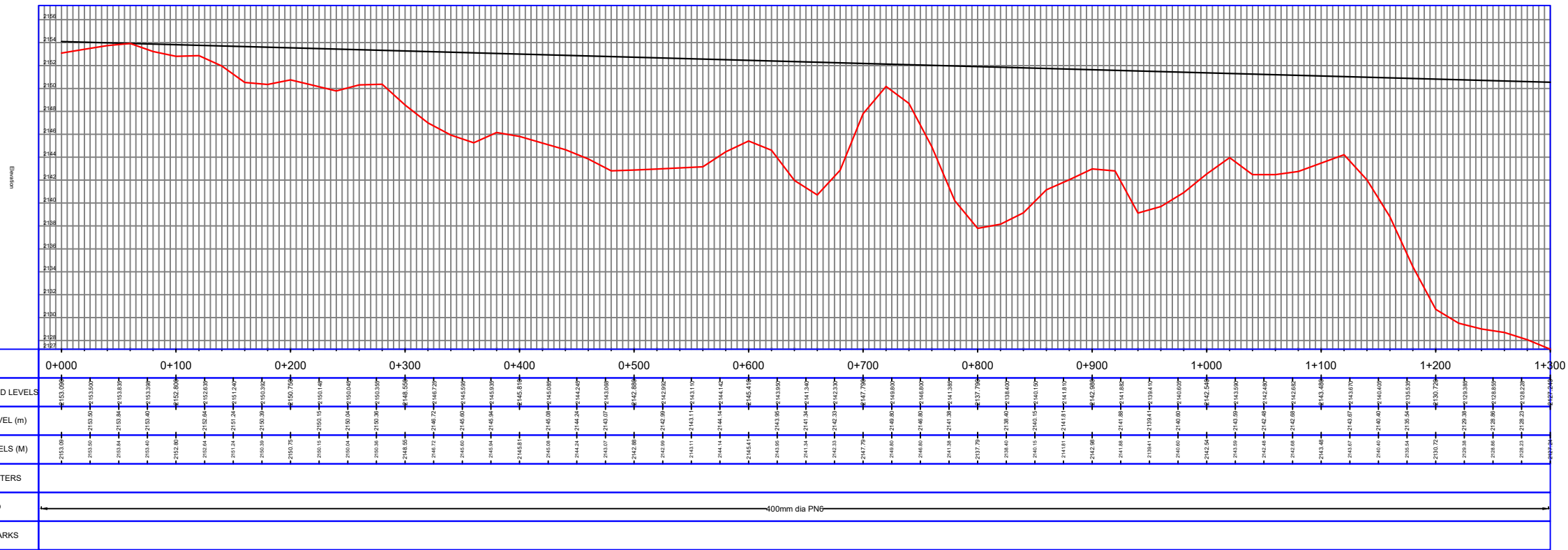
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**SEDIMENTATION BASIN WORKS
REINFORCEMENT DETAILS**

Date:	JUNE 2021	JOB No.	
DESIGNED:	P.TIPIS	Sheet	3 of 3
Drawn:	MMNEPH		
Checked:	ENG KARANGU		
Approved:	ENG KARANGU	DRG. No.	02/MID/NIA/2021
Scale:	AS SHOWN	REV	

KANYENYAINI PROFILES

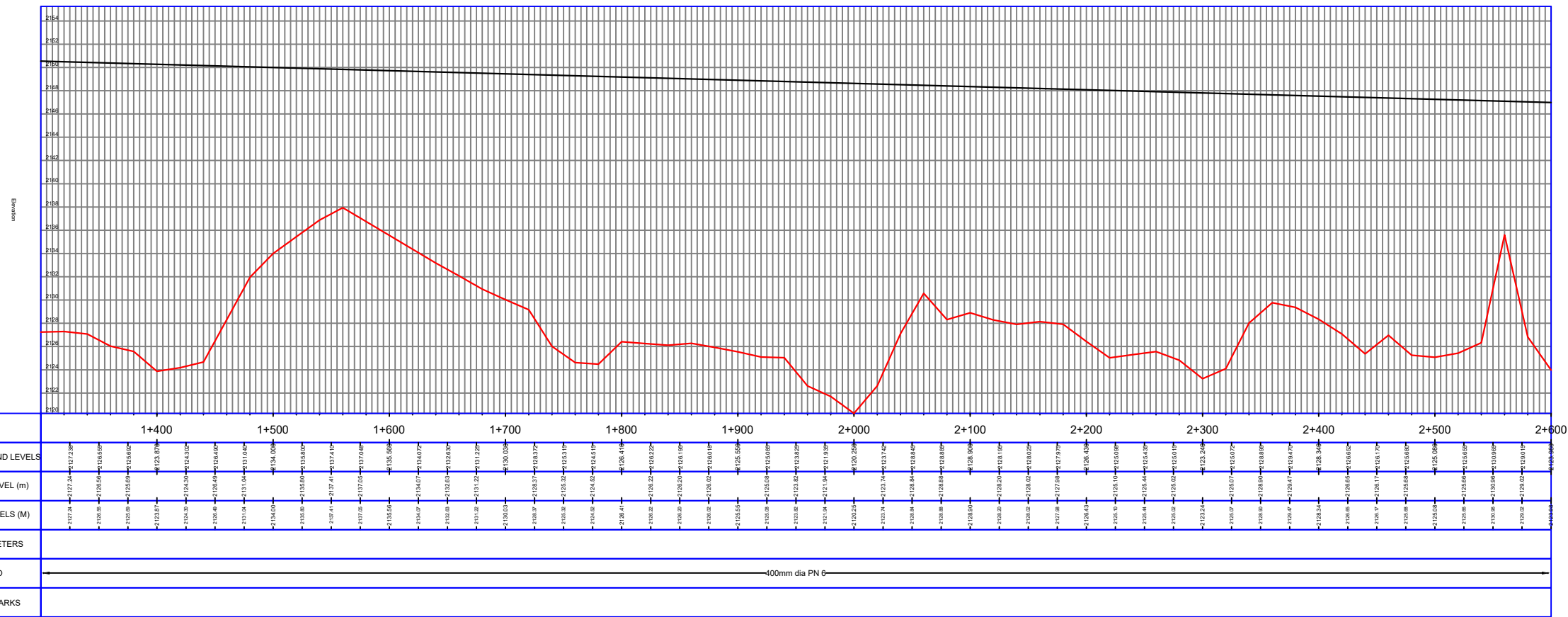
KANYENYAINI CONVEYANCE



General Notes		
No.	Revision/Issue	Date

PROJECT NAME:
MINISTRY OF WATER, SANITATION
AND IRRIGATION
IRRIGATION AND DRAINAGE
DEPARTMENT
KANYENYAINI
IRRIGATION PROJECT
KANGEMA SUB-COUNTY
MURANG'A COUNTY

DESIGN TEAM:
ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)
SURVEY TEAM:
ENG. GICHANE
NORAH
MUREITHI



General Notes

No.	Revision/Issue	Date
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PROJECT NAME:

MINISTRY OF WATER, SANITATION
AND IRRIGATION

IRRIGATION AND DRAINAGE
DEPARTMENT

KANYENYAINI
IRRIGATION PROJECT

KANGEMA SUB-COUNTY

MURANG'A COUNTY

DESIGN TEAM:

ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)

SURVEY TEAM:

ENG. GICHANE
NORAH
MUREITHI

Project	KANYENYAINI CONVEYANCE
Date	28/03/2021
Scale	1:1000

Sheet	2 of 8
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STATIONS (m)	2+700	2+800	2+900	3+000	3+100	3+200	3+300	3+400	3+500	3+600	3+700	3+800	3+900
ORIGINAL GROUND LEVELS	2130.77	2130.11	2129.60	2129.00	2128.50	2127.80	2127.00	2126.50	2125.80	2125.00	2124.50	2123.80	2123.00
PIPE INVERT LEVEL (m)	2130.77	2130.11	2129.60	2129.00	2100.00	2105.00	2110.00	2115.00	2120.00	2125.00	2130.00	2135.00	2140.00
HYDRAULIC LEVELS (M)	2130.77	2130.11	2129.60	2129.00	2100.00	2105.00	2110.00	2115.00	2120.00	2125.00	2130.00	2135.00	2140.00
FLOW PARAMETERS													
PIPE INFO	100mm dia PN 6												
SURVEY REMARKS													

General Notes		
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PROJECT NAME:
MINISTRY OF WATER, SANITATION
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IRRIGATION AND DRAINAGE
DEPARTMENT
KANYENYAINI
IRRIGATION PROJECT
KANGEMA SUB-COUNTY
MURANG'A COUNTY

DESIGN TEAM:
ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)
SURVEY TEAM:
ENG. GICHANE
NORAH
MUREITHI

Project	KANYENYAINI CONVEYANCE	Sheet	3 of 8
Date	28/03/2021		
Scale	1:1000		



STATIONS (m)	4+000	4+100	4+200	4+300	4+400	4+500	4+600	4+700	4+800	4+900	5+000	5+100	5+200
ORIGINAL GROUND LEVELS	2114.82	2111.98	2108.01	2078.16	2077.97	2079.31	2079.11	2079.81	2080.42	2084.18	2085.13	2103.54	2104.45
PIPE INVERT LEVEL (m)	2081.01	2078.16	2077.97	2079.31	2079.11	2079.81	2080.42	2084.18	2085.13	2103.54	2104.45	2105.53	2105.53
HYDRAULIC LEVELS (M)	2081.01	2078.16	2077.97	2079.31	2079.11	2079.81	2080.42	2084.18	2085.13	2103.54	2104.45	2105.53	2105.53
FLOW PARAMETERS													
PIPE INFO	400mm dia PN 6												
SURVEY REMARKS													

General Notes		
No.	Revision/Issue	Date

PROJECT NAME:
MINISTRY OF WATER, SANITATION
AND IRRIGATION
IRRIGATION AND DRAINAGE
DEPARTMENT
KANYENYAINI
IRRIGATION PROJECT
KANGEMA SUB-COUNTY
MURANG'A COUNTY

DESIGN TEAM:
ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)
SURVEY TEAM:
ENG. GICHANE
NORAH
MUREITHI

Project KANYENYAINI CONVEYANCE	Sheet
Date 28/03/2021	4 of 8
Scale 1:1000	



General Notes		
No.	Revision/Issue	Date

PROJECT NAME:
MINISTRY OF WATER, SANITATION
AND IRRIGATION
IRRIGATION AND DRAINAGE
DEPARTMENT
KANYENYAINI
IRRIGATION PROJECT
KANGEMA SUB-COUNTY
MURANG'A COUNTY

DESIGN TEAM:
ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)
SURVEY TEAM:
ENG. GICHANE
NORAH
MUREITHI



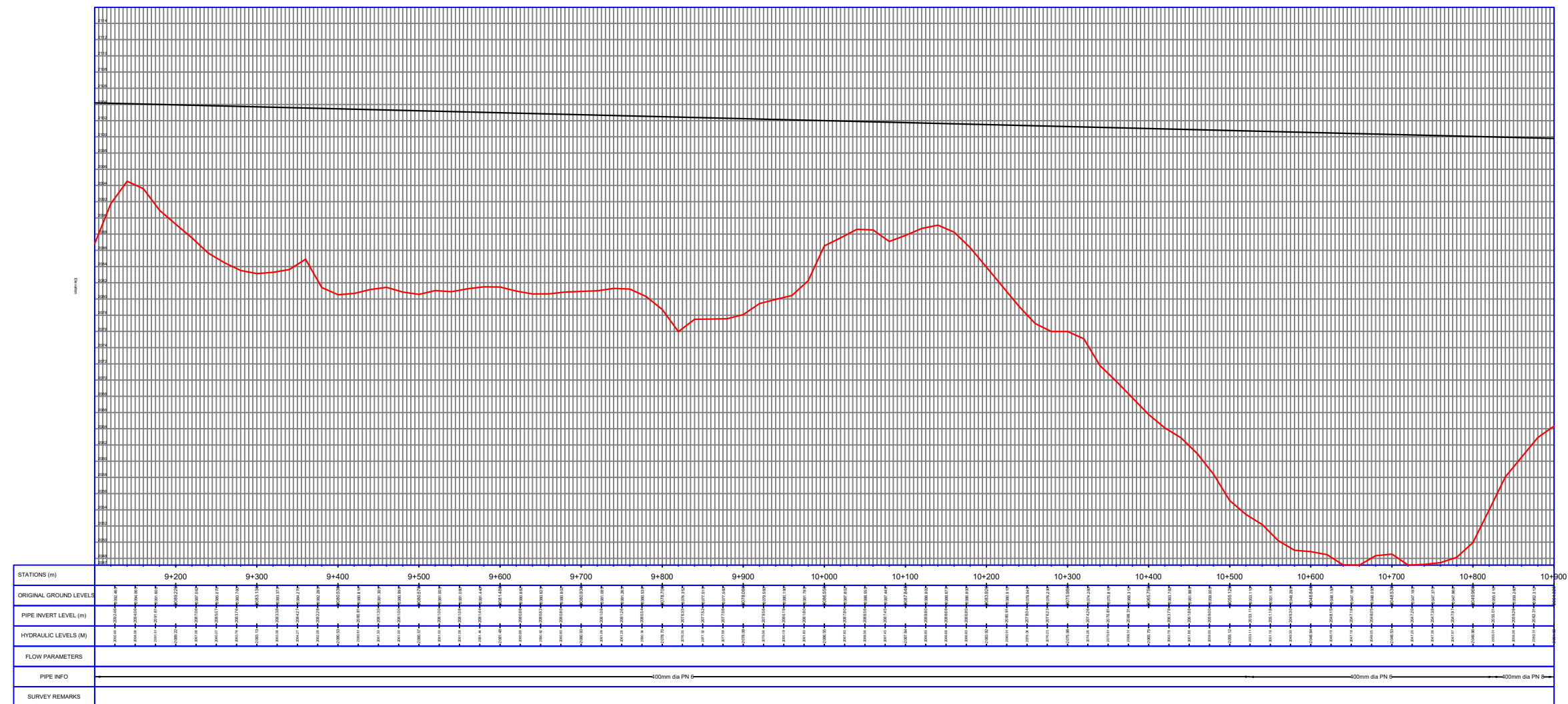
STATIONS (m)	6+600	6+700	6+800	6+900	7+000	7+100	7+200	7+300	7+400	7+500	7+600	7+700	7+800
ORIGINAL GROUND LEVELS	2094.15	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12
PIPE INVERT LEVEL (m)	2092.86	2092.86	2092.86	2092.86	2092.86	2092.86	2092.86	2092.86	2092.86	2092.86	2092.86	2092.86	2092.86
HYDRAULIC LEVELS (M)	2094.15	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12	2094.12
FLOW PARAMETERS													
PIPE INFO	400mm dia PN 0												
SURVEY REMARKS													

General Notes		
No.	Revision/Issue	Date

PROJECT NAME:
MINISTRY OF WATER, SANITATION AND IRRIGATION
IRRIGATION AND DRAINAGE DEPARTMENT
KANYENYAINI IRRIGATION PROJECT
KANGEMA SUB-COUNTY
MURANG'A COUNTY

DESIGN TEAM:
ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)
SURVEY TEAM:
ENG. GICHANE
NORAH
MUREITHI

Project	KANYENYAINI CONVEYANCE	Sheet	6 of 8
Date	28/03/2021		
Scale	1:1000		



General Notes

PROJECT NAME:

DESIGN TEAM:

Project	KANYENYAINI CONVEYANCE
Date	28/03/2021
Scale	1:1000

KANYENYAINI B CONVEYANCE



Sheet
1 of
2



No.

General Notes

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IRRIGATION AND DRAINAGE
DEPARTMENT

KANYENYAINI
IRRIGATION PROJECT

KANGEMA SUB-COUNTY

MURANG'A COUNTY

DESIGN TEAM:

ENG. KARANGU

ENG. TIPIS

MBURUGU (CAD EXPERT)

SURVEY TEAM:

ENG. GICHANE

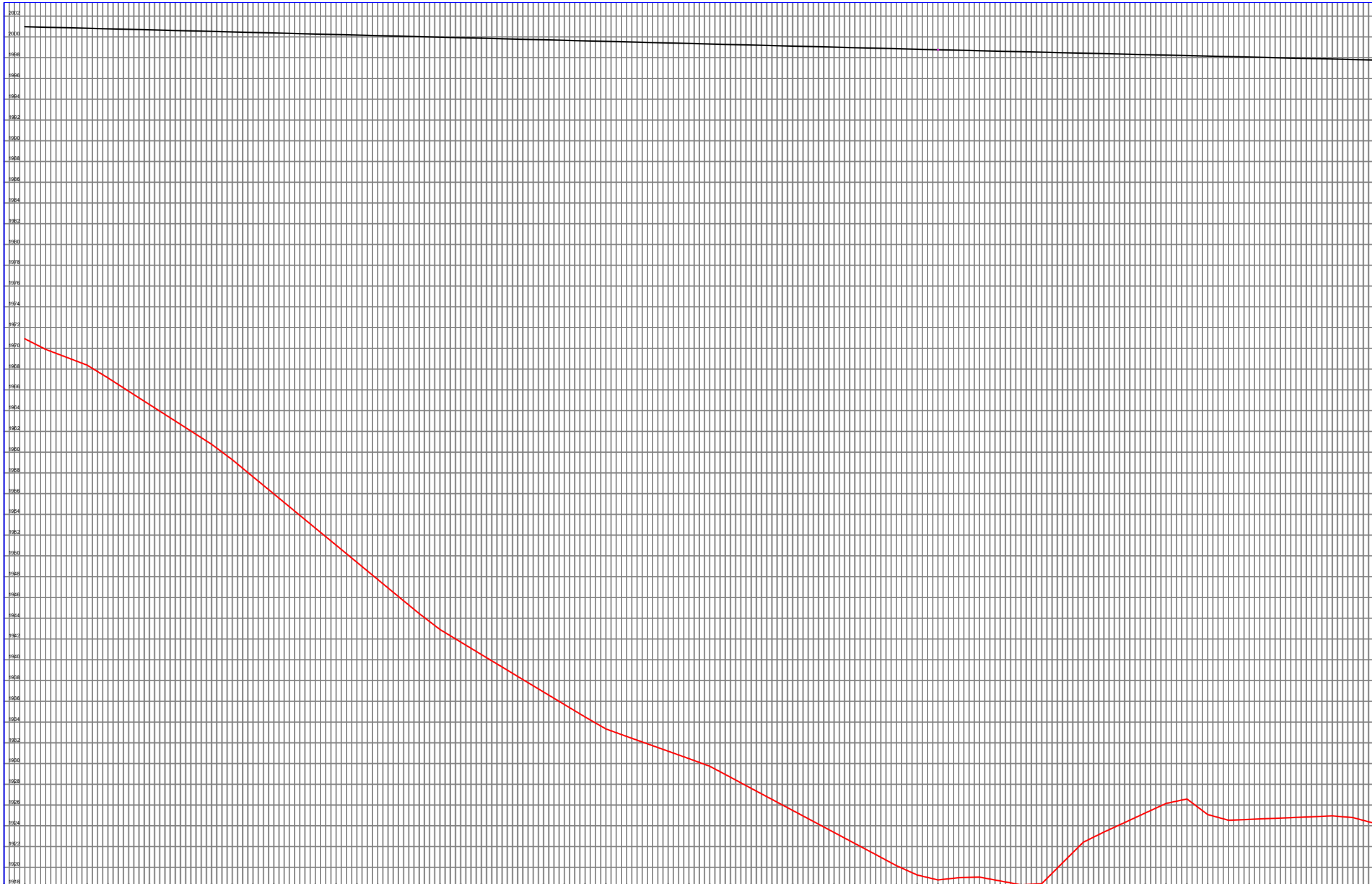
NORAH

MUREITHI

Project	KANYENYINI B CONVEYANCE	Sheet	2 of 2
Date	28/03/2021		
Scale	1:1000		

CULVERT GITUGU CONVEYANCE

Elevation



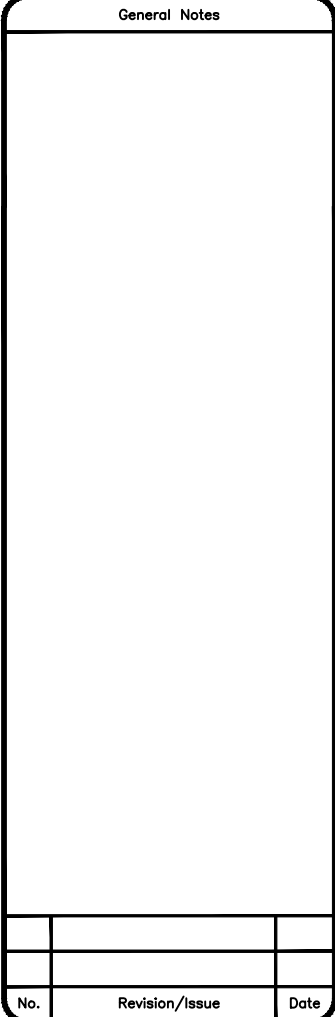
STATIONS (m)	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	1+000	1+100	1+200	1+300
ORIGINAL GROUND LEVELS	1979.91	1980.71	1981.76	1982.67	1983.52	1984.41	1985.30	1986.20	1987.11	1988.02	1988.93	1989.84	1990.75	1991.66
PIPE INVERT LEVEL (m)	1979.91	1980.71	1981.76	1982.67	1983.52	1984.41	1985.30	1986.20	1987.11	1988.02	1988.93	1989.84	1990.75	1991.66
HYDRAULIC LEVELS (M)	1979.91	1980.71	1981.76	1982.67	1983.52	1984.41	1985.30	1986.20	1987.11	1988.02	1988.93	1989.84	1990.75	1991.66
FLOW PARAMETERS														
PIPE INFO	160mm dia PN 8													
SURVEY REMARKS														

General Notes

No.	Revision/Issue	Date
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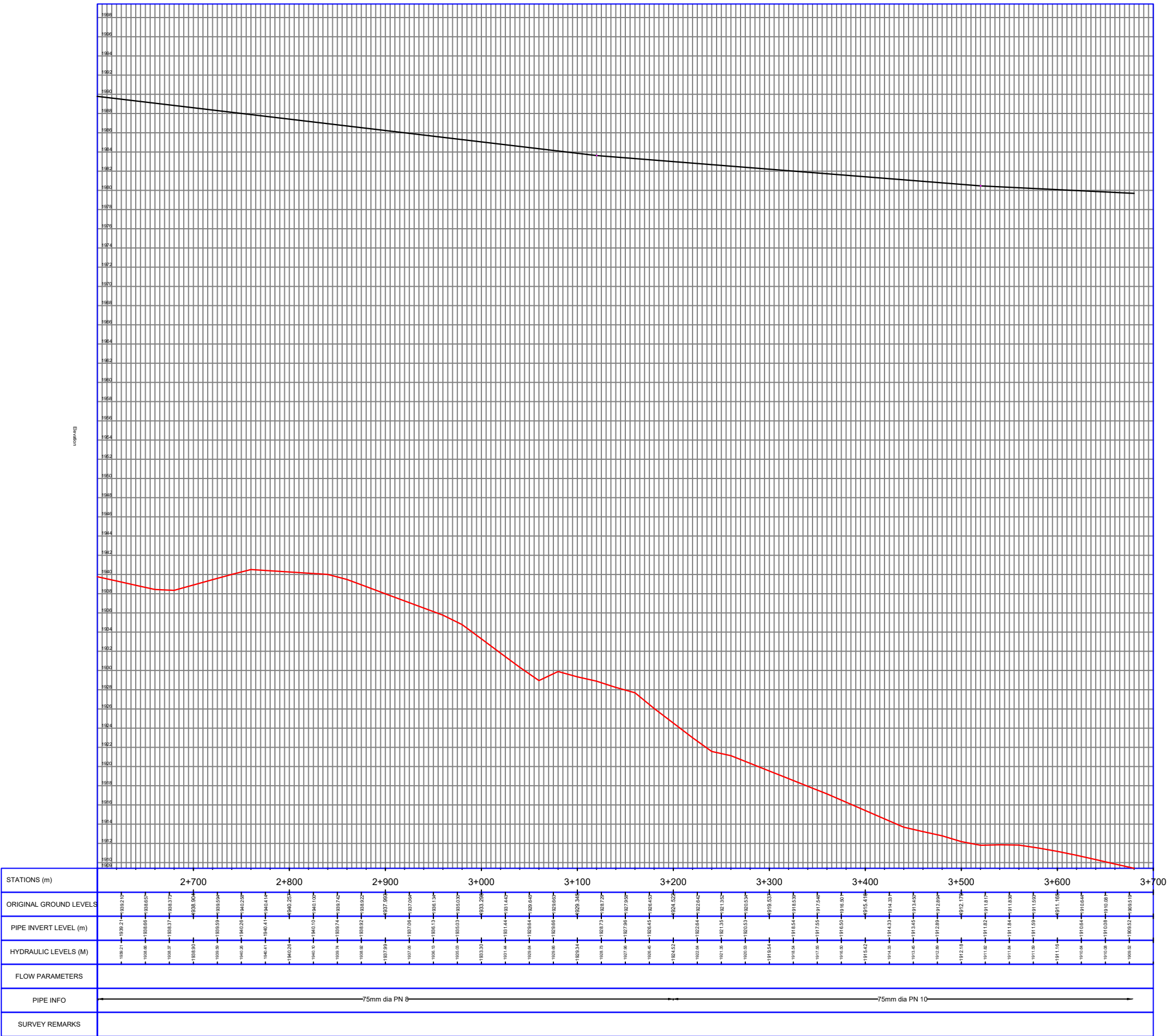
PROJECT NAME:
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IRRIGATION AND DRAINAGE
DEPARTMENT
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KANGEMA SUB-COUNTY
MURANG'A COUNTY

DESIGN TEAM:
ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)
SURVEY TEAM:
ENG. GICHANE
NORAH
MUREITHI



DESIGN TEAM:
ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)

SURVEY TEAM:
ENG. GICHANE
NORAH
MUREITHI

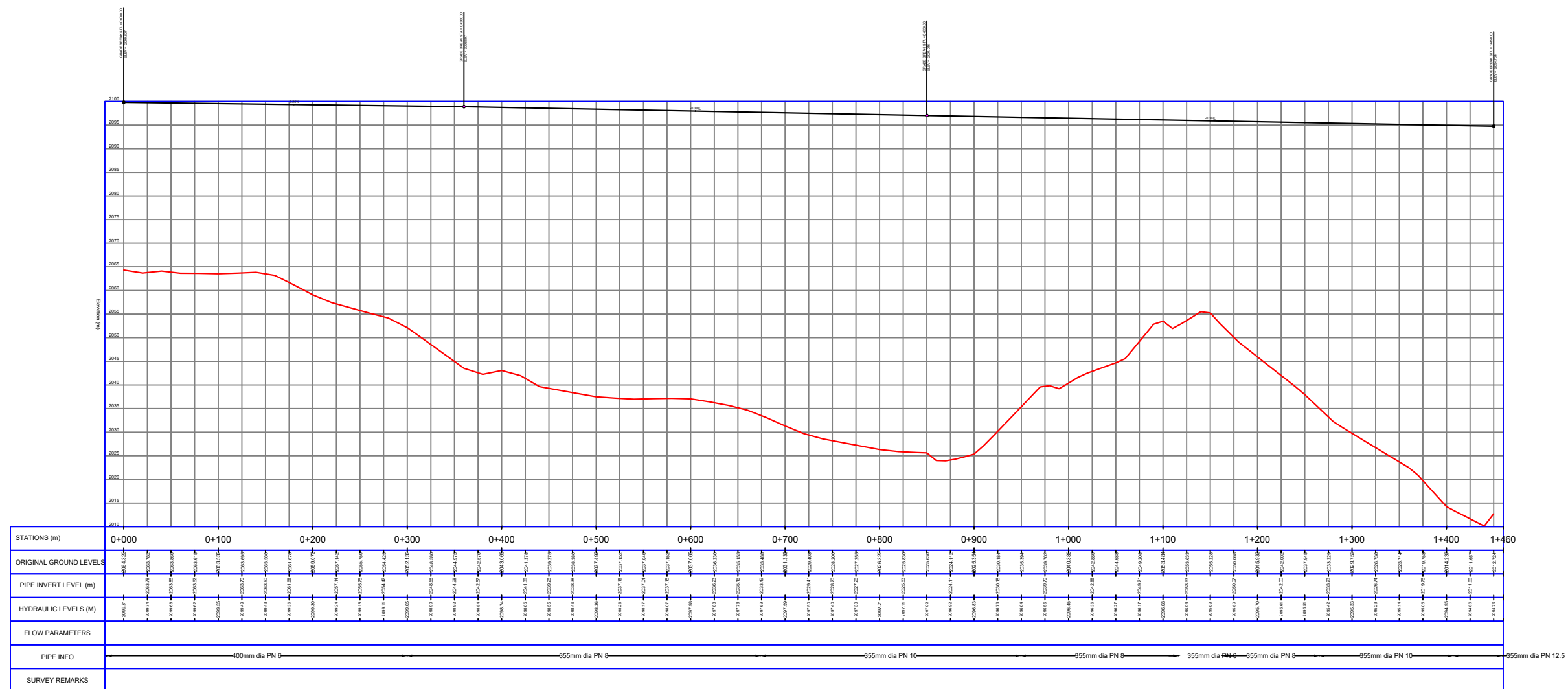


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KANGEMA SUB-COUNTY
MURANG'A COUNTY

DESIGN TEAM:
ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)
SURVEY TEAM:
ENG. GICHANE
NORAH
MUREITHI

NGOE-INI KANYENYAINI CONVEYANCE



General Notes

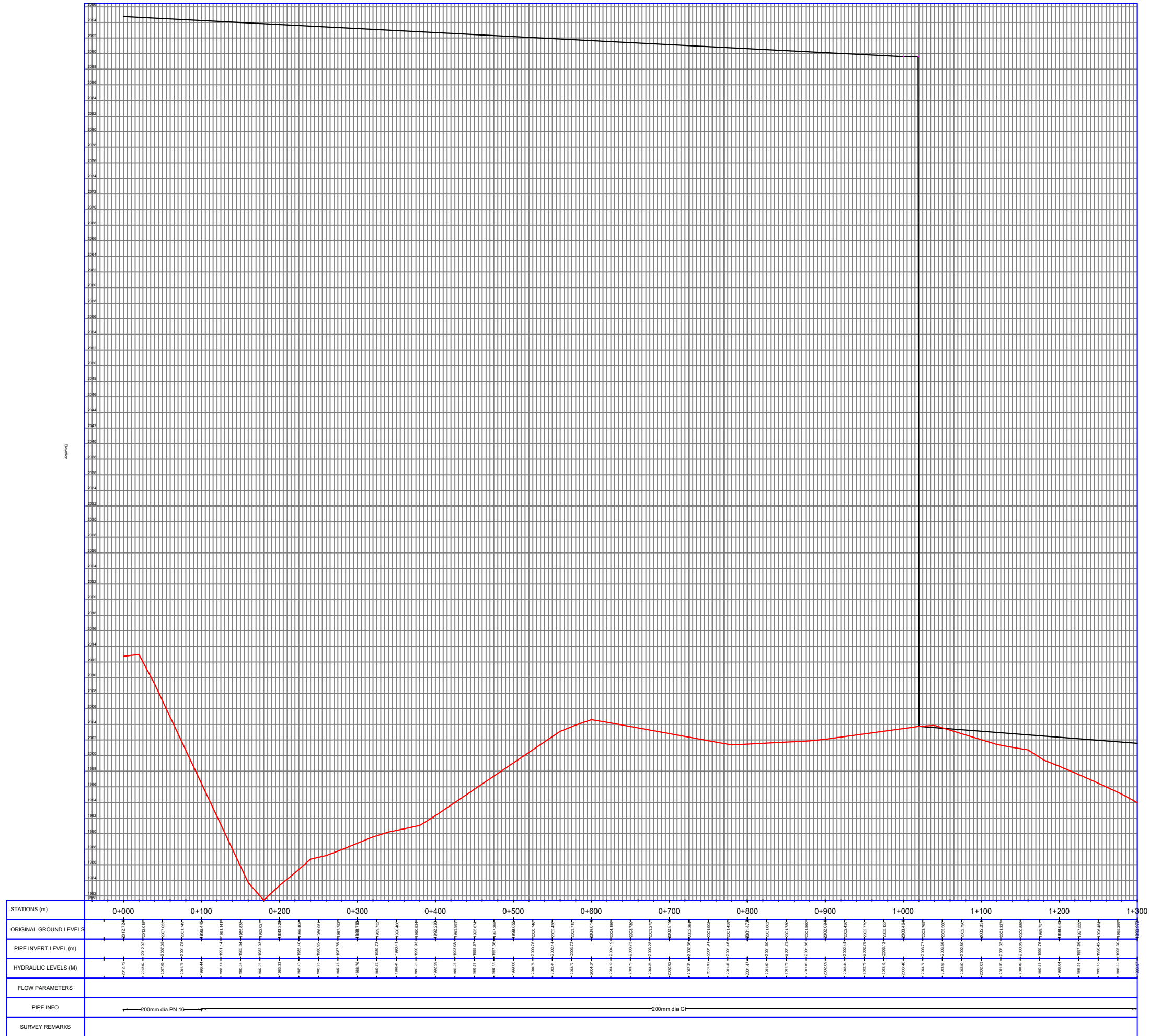
PROJECT NAME:

DESIGN TEAM:

Project	NGOE-INI KANYENYAINI CONVEYANCE
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KANYENYAINI GITUGU KIARUB CONVEYANCE

Elevation



General Notes

No.	Revision/Issue	Date

PROJECT NAME:

MINISTRY OF WATER, SANITATION
AND IRRIGATION

IRRIGATION AND DRAINAGE
DEPARTMENT

KANYENYAINI
IRRIGATION PROJECT

KANGEMA SUB-COUNTY

MURANG'A COUNTY

DESIGN TEAM:

ENG. KARANGU
ENG. TIPIS
MBURUGU (CAD EXPERT)

SURVEY TEAM:

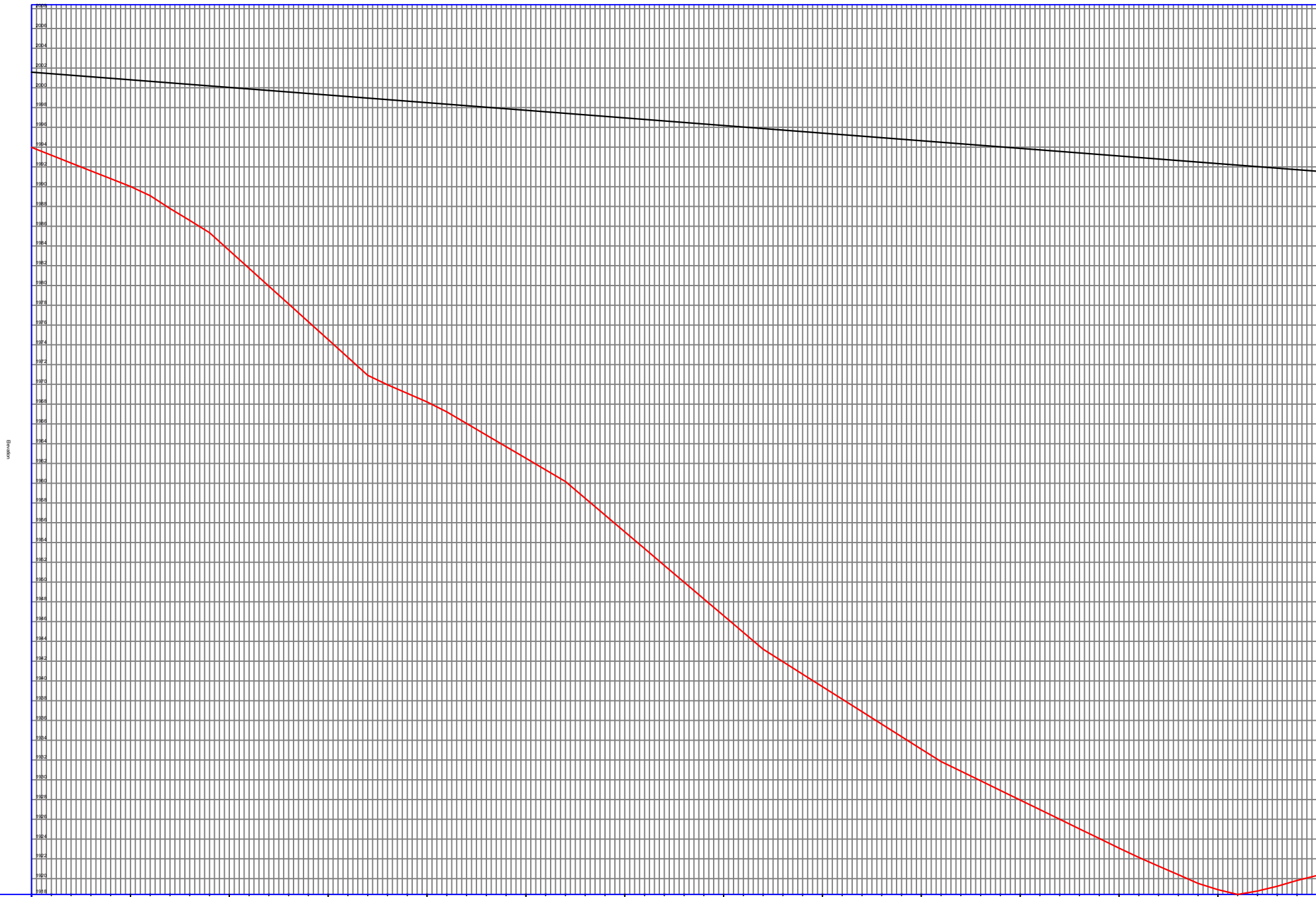
ENG. GICHANE
NORAH
MUREITHI

Project
KANYENYAINI GITUGU -
KIARUB CONVEYANCE

Date
28/03/2021

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1 of
6



STATIONS (m)		1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100	2+200	2+300	2+400	2+500	2+600
ORIGINAL GROUND LEVELS		1992.00	1991.50	1990.50	1989.50	1988.50	1987.50	1986.50	1985.50	1984.50	1983.50	1982.50	1981.50	1980.50
PIPE INVERT LEVEL (m)		1995.00	1994.50	1993.50	1992.50	1991.50	1990.50	1989.50	1988.50	1987.50	1986.50	1985.50	1984.50	1983.50
HYDRAULIC LEVELS (M)		1995.00	1994.50	1993.50	1992.50	1991.50	1990.50	1989.50	1988.50	1987.50	1986.50	1985.50	1984.50	1983.50
FLOW PARAMETERS														
PIPE INFO		← 200mm dia GI →												
SURVEY REMARKS														

General Notes

No.	Revision/Issue	Date
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MINISTRY OF WATER, SANITATION
AND IRRIGATION

IRRIGATION AND DRAINAGE
DEPARTMENT

KANYENYAINI
IRRIGATION PROJECT

KANGEMA SUB-COUNTY

MURANG'A COUNTY

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MBURUGU (CAD EXPERT)

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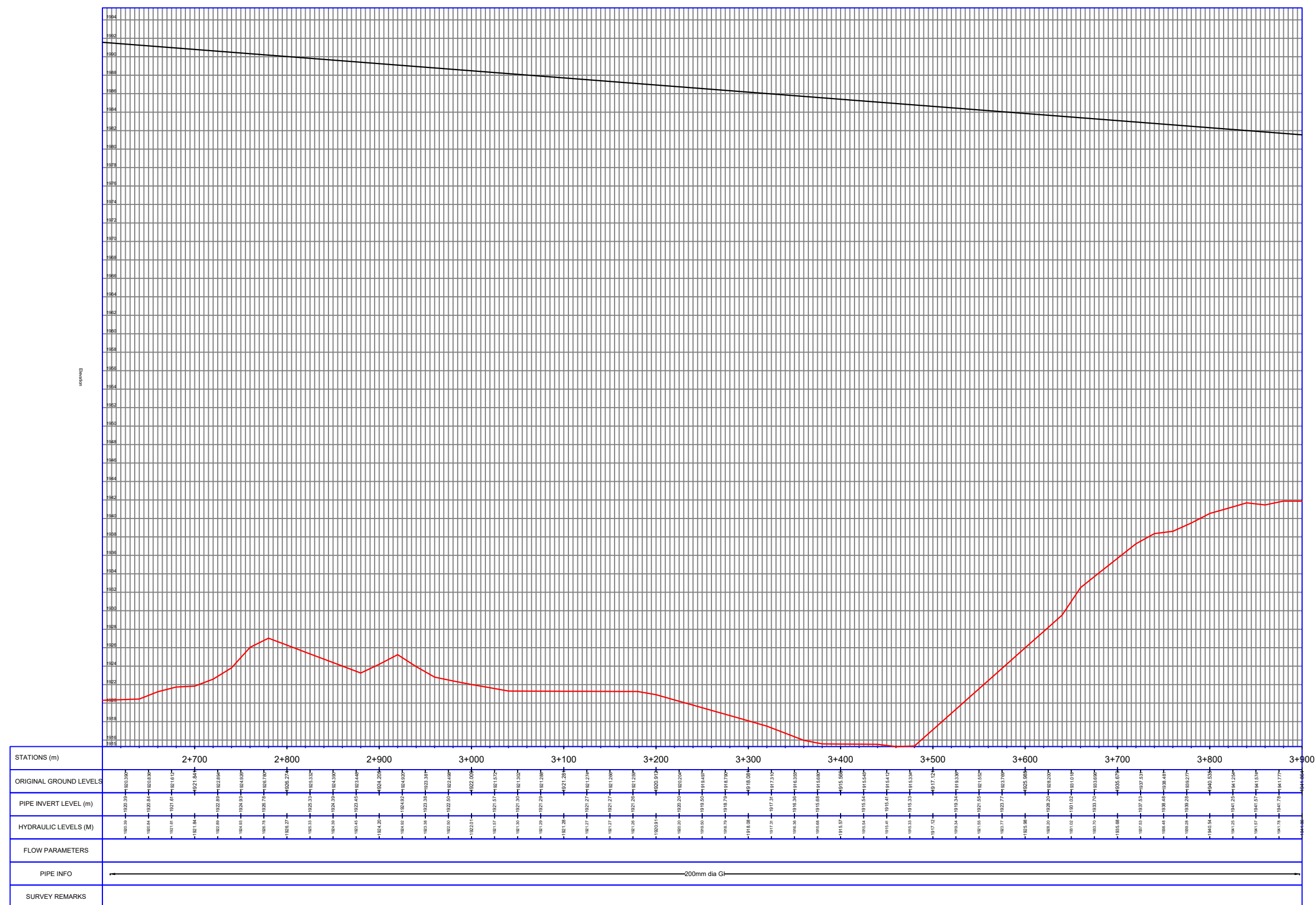
Project
KANYENYAINI GITUGU -
KIARUB CONVEYANCE

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Sheet

2 of
6



General Notes

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MINISTRY OF WATER, SANITATION
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DEPARTMENTKANYENYAINI
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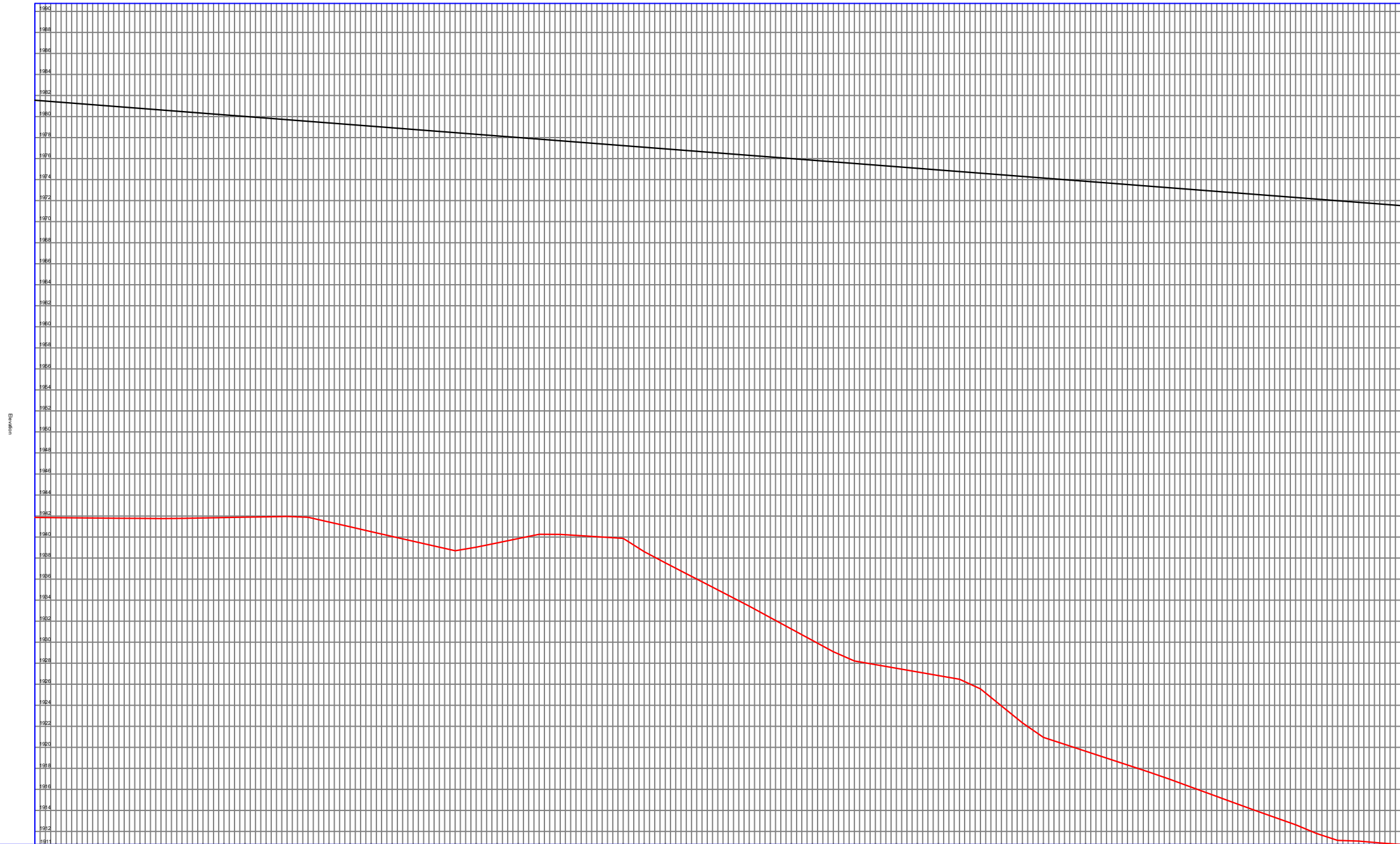
Project	KANYENYAINI GITUGU KIARUB CONVEYANCE	She
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Date 28/03/2021

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3 of 6



STATIONS (m)		4+000	4+100	4+200	4+300	4+400	4+500	4+600	4+700	4+800	4+900	5+000	5+100	5+200
ORIGINAL GROUND LEVELS		1981.62	1981.61	1981.78	1981.77	1981.76	1981.80	1981.82	1981.83	1981.85	1981.87	1981.89	1981.91	1981.93
PIPE INVERT LEVEL (m)		1981.54	1981.53	1981.52	1981.51	1981.50	1981.49	1981.48	1981.47	1981.46	1981.45	1981.44	1981.43	1981.42
HYDRAULIC LEVELS (M)		1981.54	1981.53	1981.52	1981.51	1981.50	1981.49	1981.48	1981.47	1981.46	1981.45	1981.44	1981.43	1981.42
FLOW PARAMETERS														
PIPE INFO		← 200mm dia GI →												
SURVEY REMARKS														

General Notes

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PROJECT NAME:

MINISTRY OF WATER, SANITATION AND IRRIGATION

IRRIGATION AND DRAINAGE DEPARTMENT

KANYENYAINI IRRIGATION PROJECT

KANGEMA SUB-COUNTY

MURANG'A COUNTY

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ENG. TIPIS

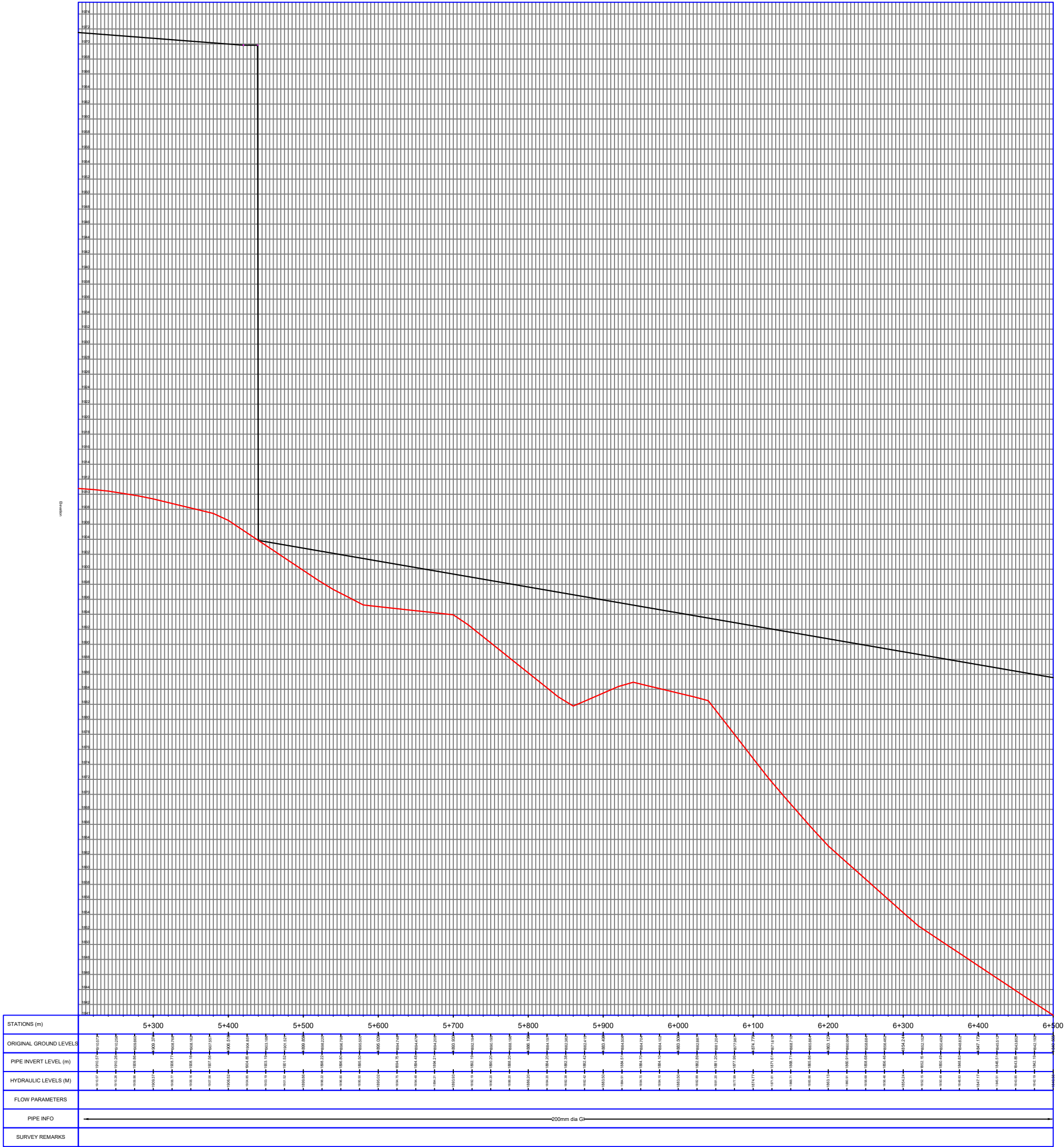
MBURUGU (CAD EXPERT)

SURVEY TEAM:

ENG. GICHANE

NORAH

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IRRIGATION PROJECT
KANGEMA SUB-COUNTY
MURANG'A COUNTY

DESIGN TEAM:
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MBURUGU (CAD EXPERT)
SURVEY TEAM:
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MBURUGU (CAD EXPERT)

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KANYENYAINI GITUGU KIARUB CONVEYANCE

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6 of 6