

REPUBLIC OF KENYA  
MINISTRY OF ENERGY AND REGIONAL DEVELOPMENT  
NATIONAL IRRIGATION BOARD

FEASIBILITY STUDY  
ON  
THE MWEA IRRIGATION DEVELOPMENT PROJECT

DRAWINGS

MARCH 1988

JAPAN INTERNATIONAL COOPERATION AGENCY

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REPUBLIC OF KENYA  
MINISTRY OF ENERGY AND REGIONAL DEVELOPMENT  
NATIONAL IRRIGATION BOARD

FEASIBILITY STUDY  
ON  
THE MWEA IRRIGATION DEVELOPMENT PROJECT

DRAWINGS

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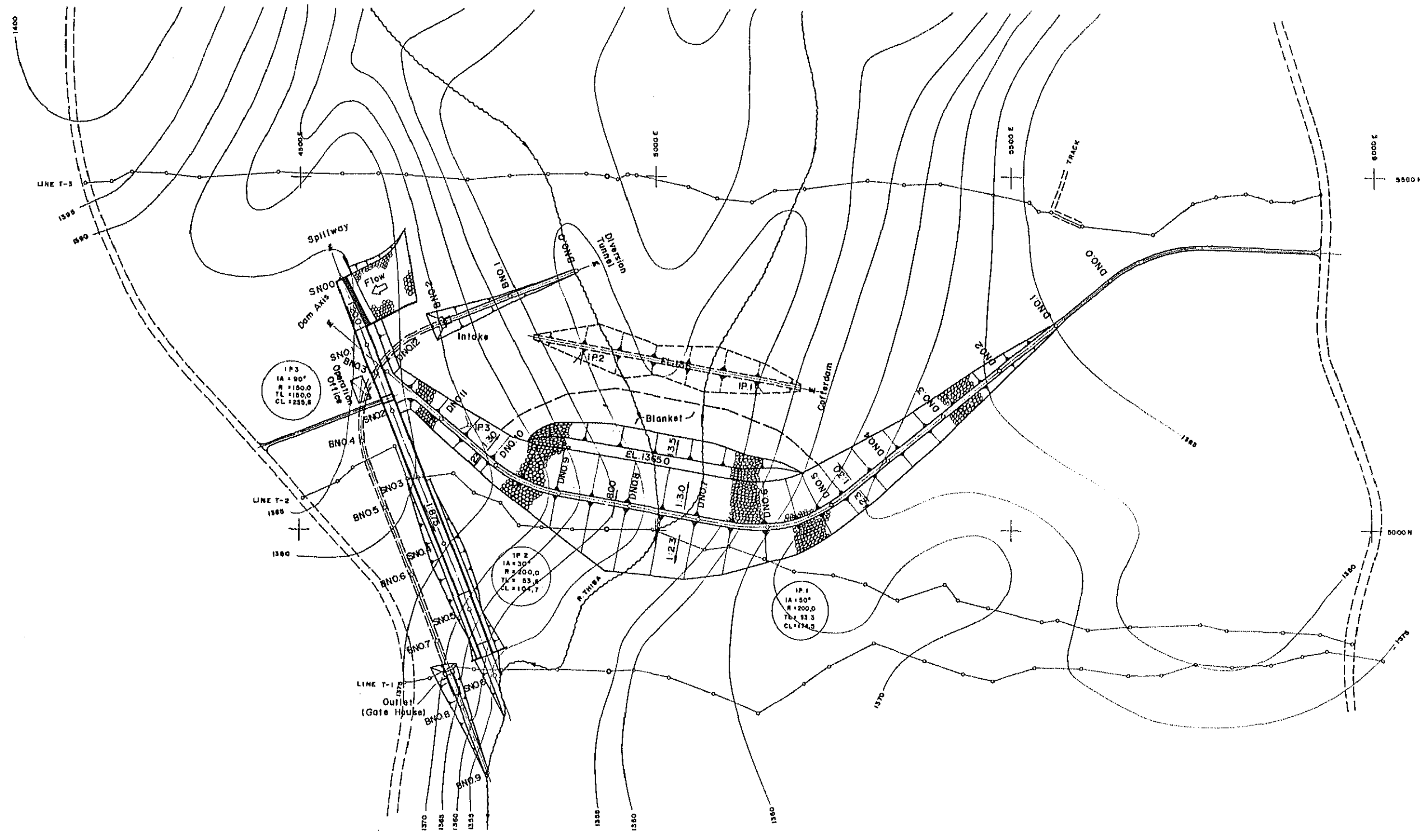
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MARCH 1988

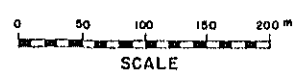
JAPAN INTERNATIONAL COOPERATION AGENCY

LIST OF DRAWINGS

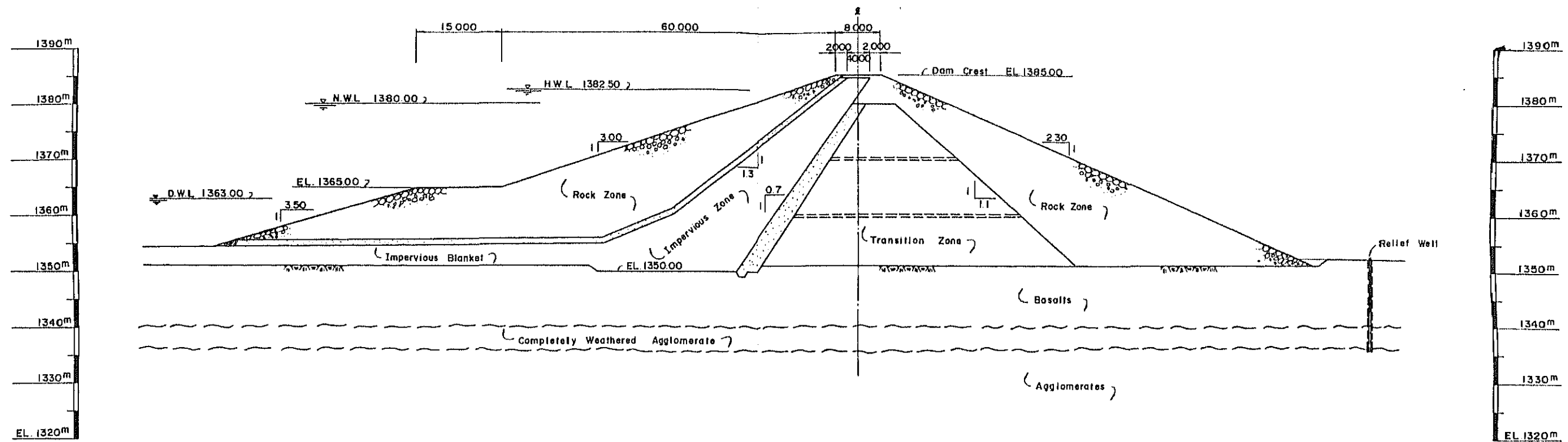
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GENERAL PLAN

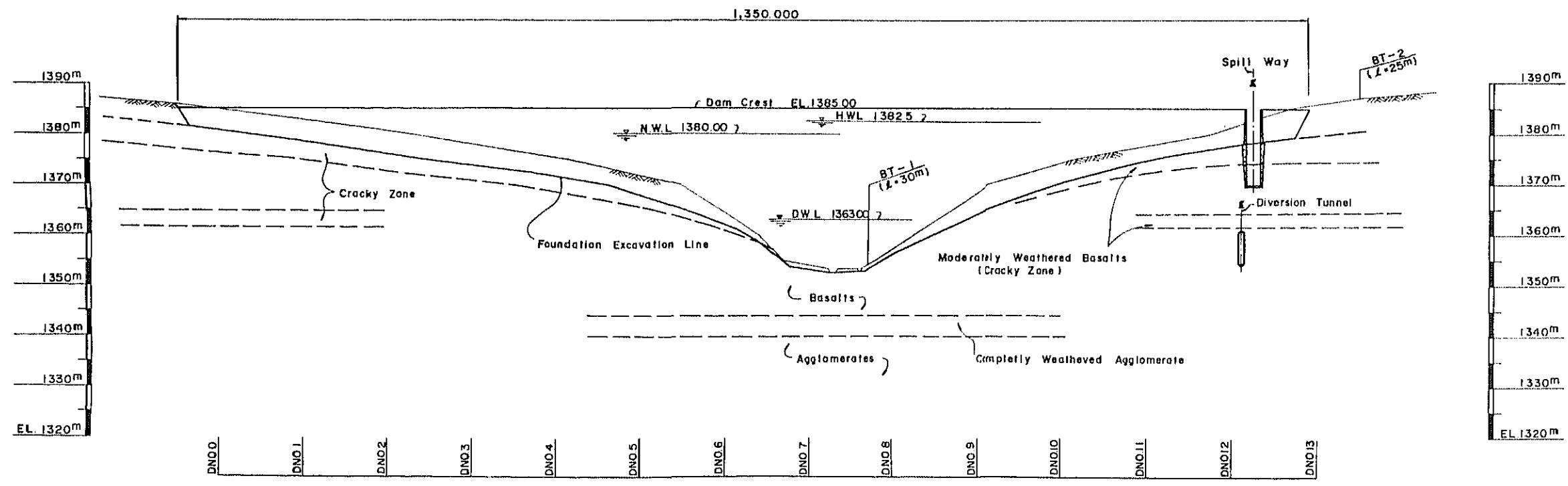


REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING <b>THIBA DAM (1/5) GENERAL PLAN</b>	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No. 1001



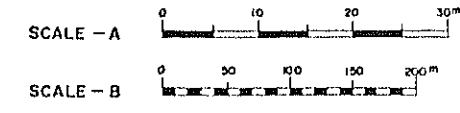
TYPICAL CROSS SECTION

SCALE - A



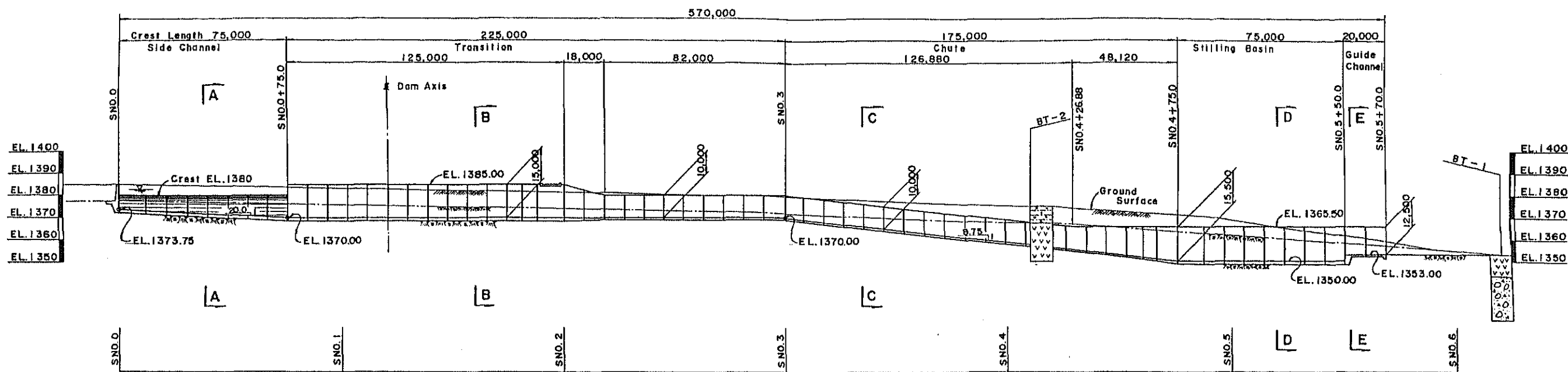
LONGITUDINAL SECTION

SCALE - B

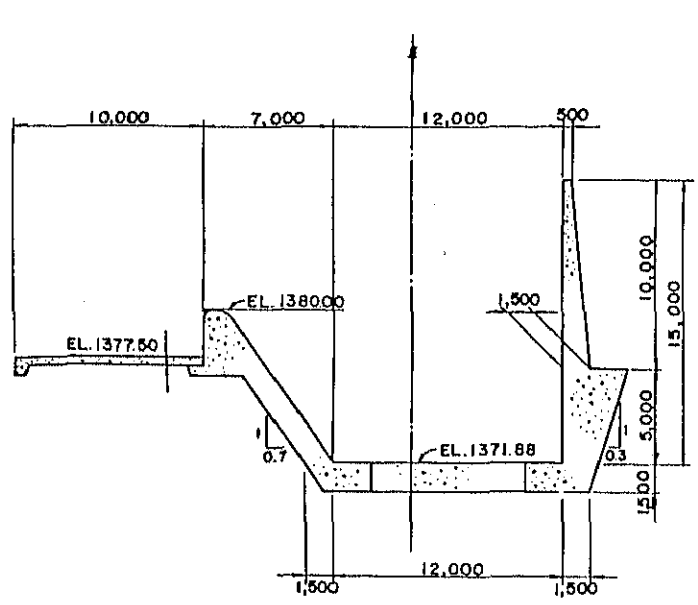
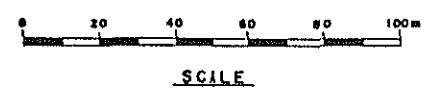


REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING THIBA DAM (2/5) TYPICAL SECTION AND PROFILE	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No. 1002

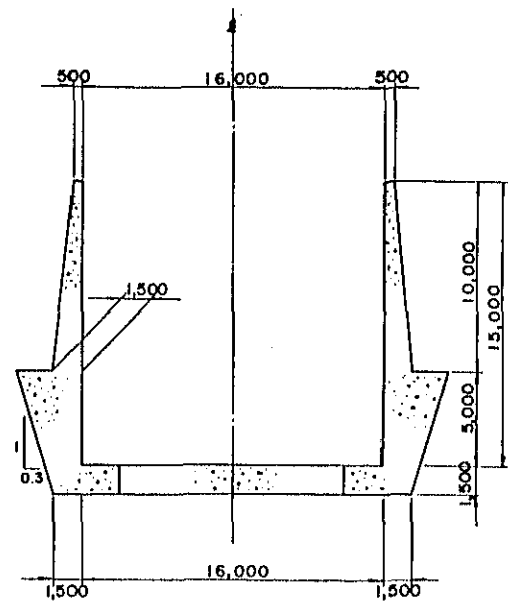




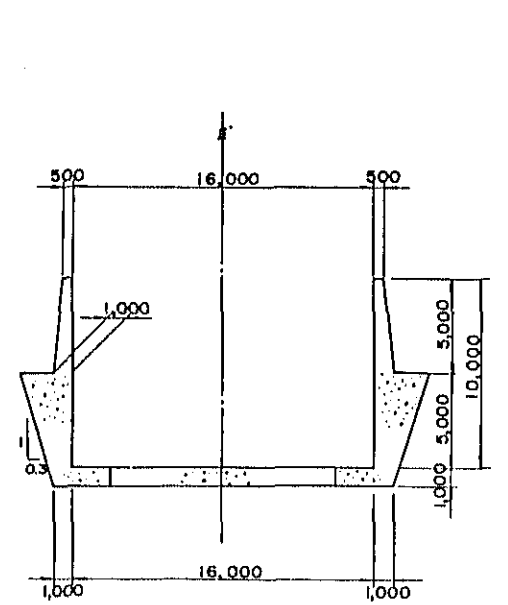
**LONGITUDINAL SECTION OF SPILLWAY**



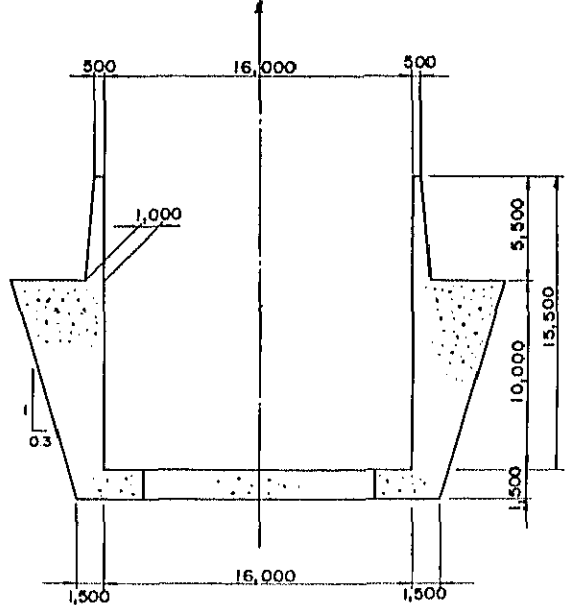
**SECTION A-A**  
SCALE-A



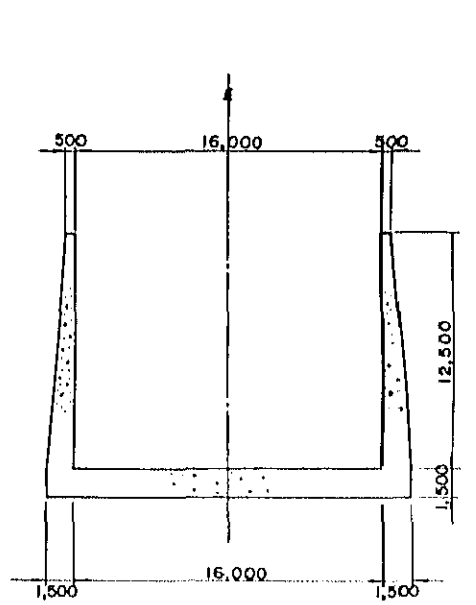
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SCALE-A



**SECTION C-C**  
SCALE-A



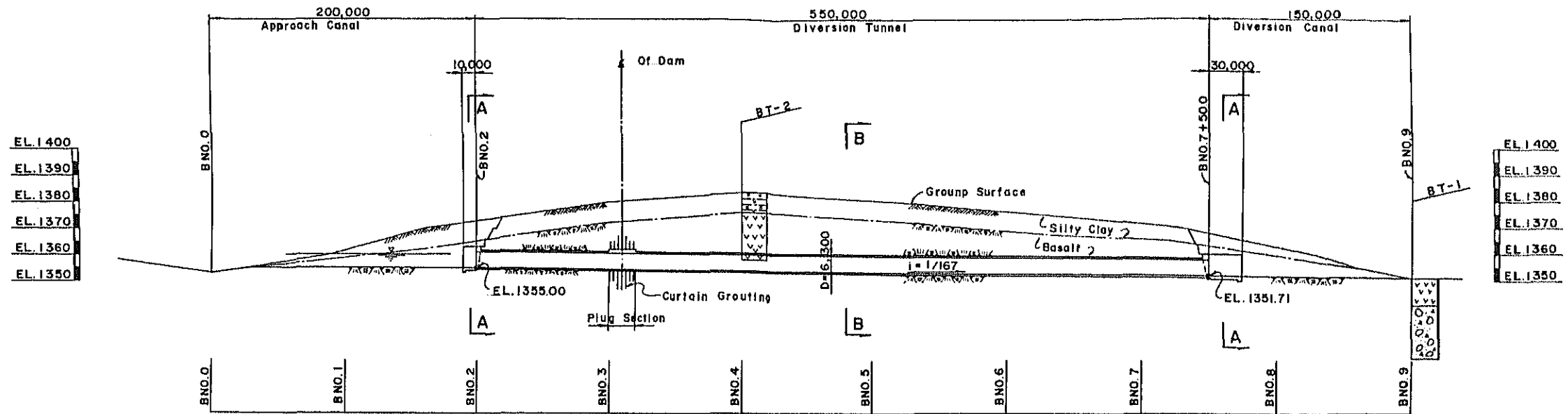
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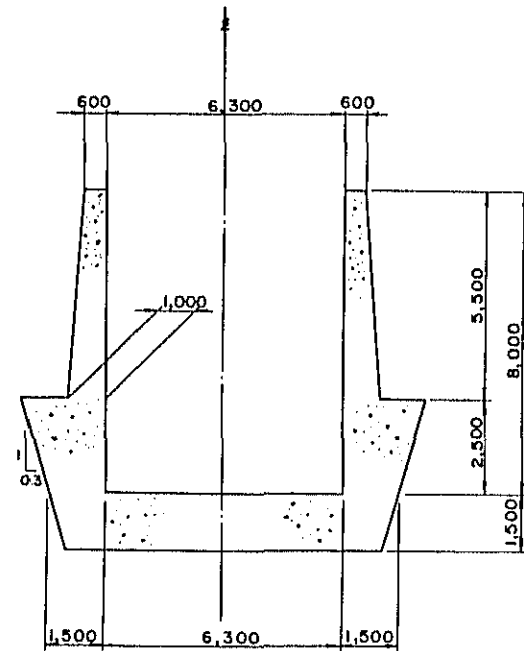
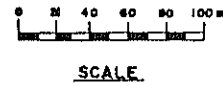
**SECTION E-E**  
SCALE-A



REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING <b>THIBA DAM (3/5) MAIN SPILLWAY</b>	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO, JAPAN	DWG. No. 1003



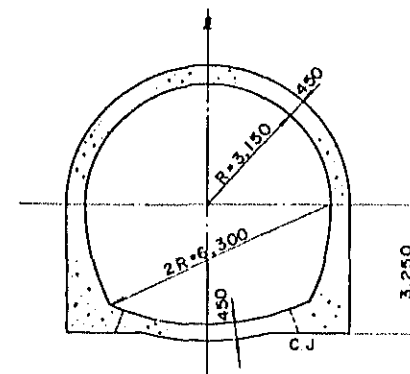
LONGITUDINAL SECTION OF RIVER DIVERSION



SECTION A-A



SCALE

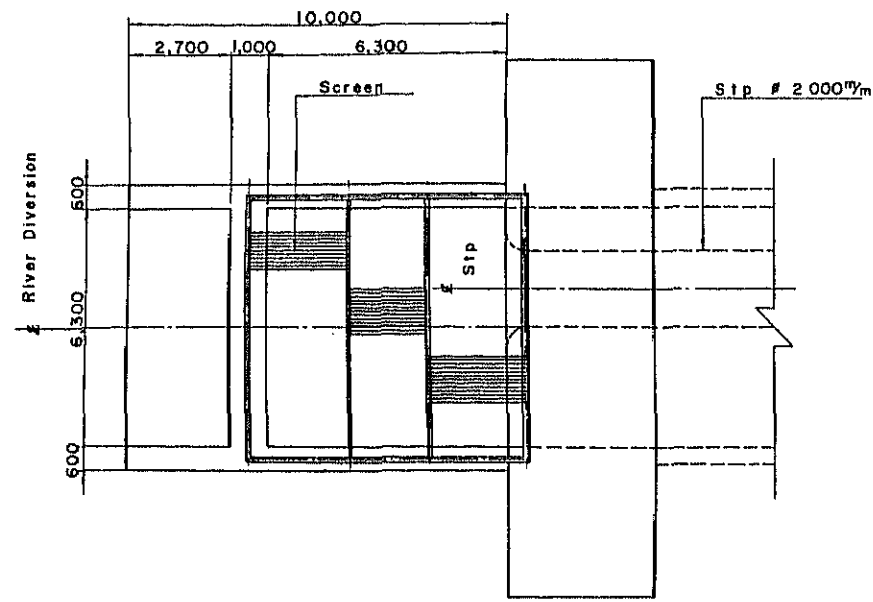


SECTION B-B

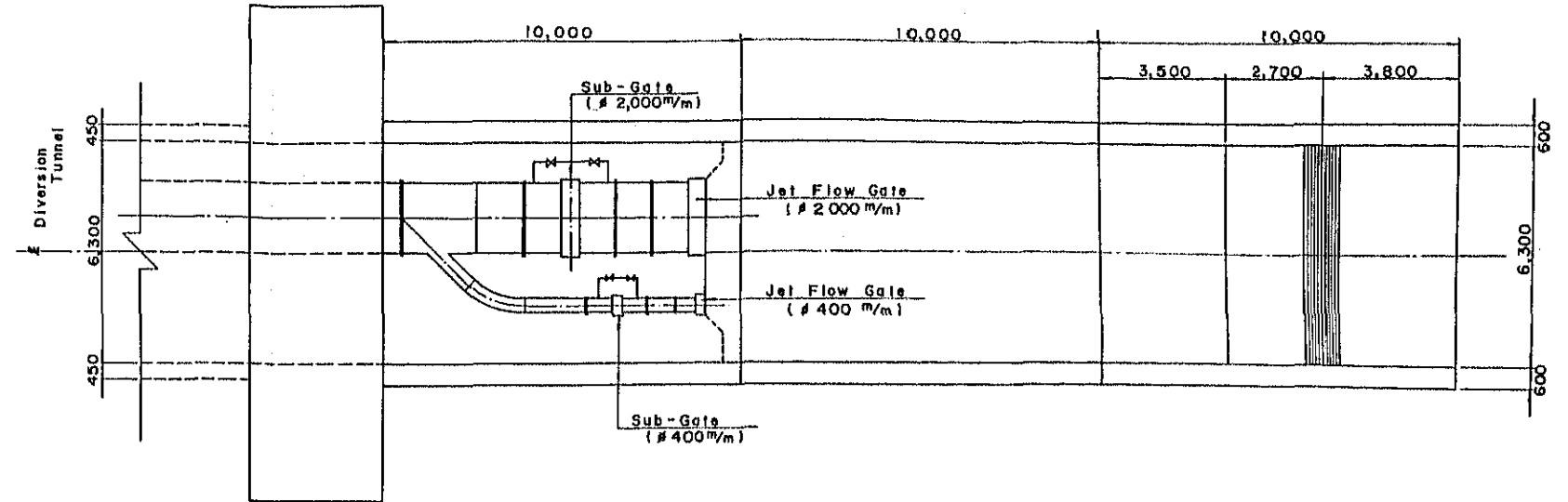


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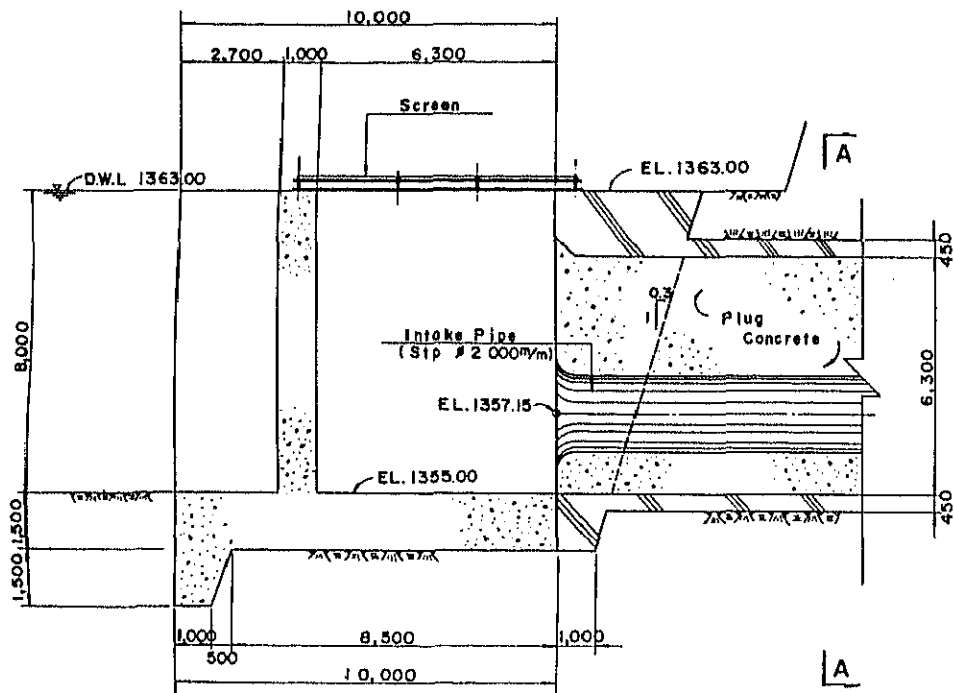
REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING THIBA DAM (4/5) DIVERSION CHANNEL	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No. 1004



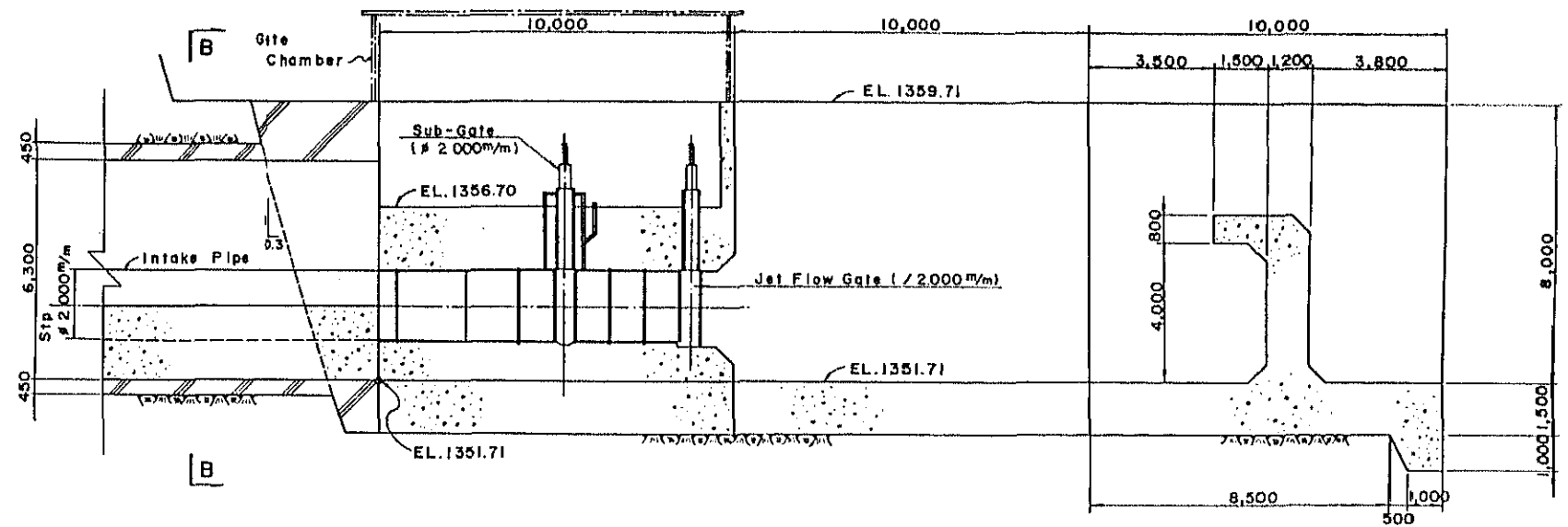
PLAN OF INTAKE STRUCTURE



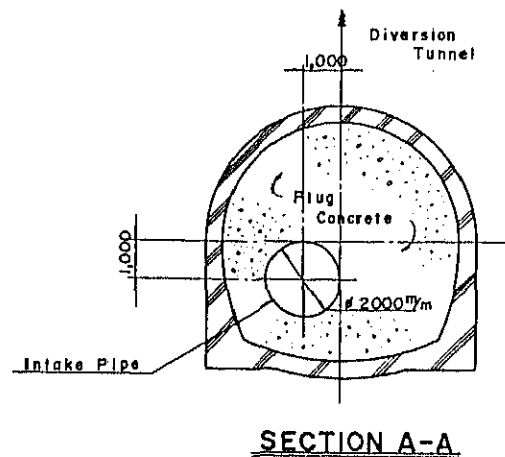
PLAN OF OUTLET STRUCTURE



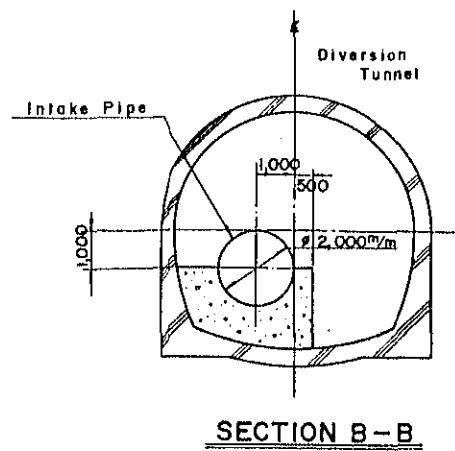
PROFILE OF INTAKE STRUCTURE



LONGITUDINAL SECTION OF OUTLET STRUCTURE



SECTION A-A

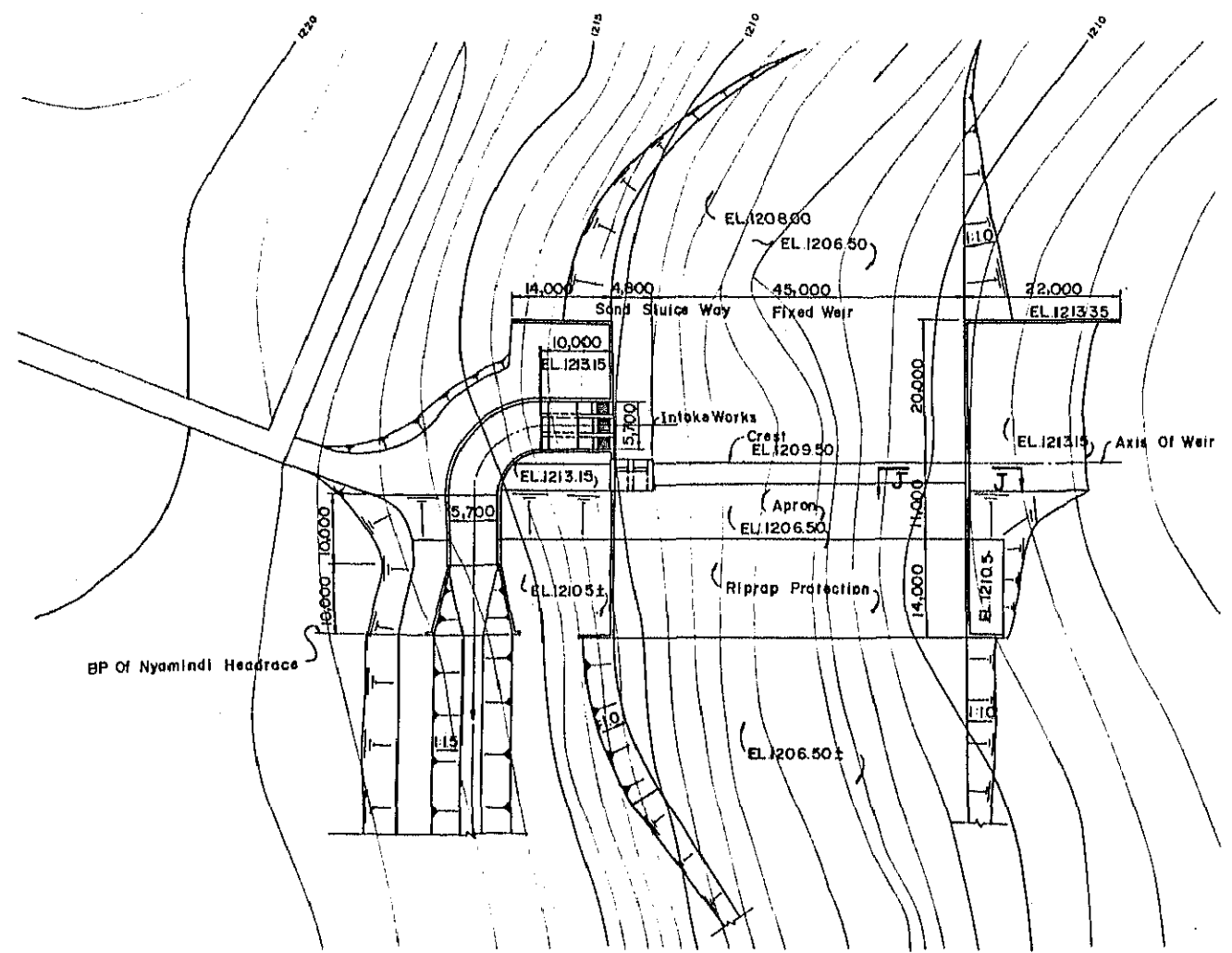


SECTION B-B

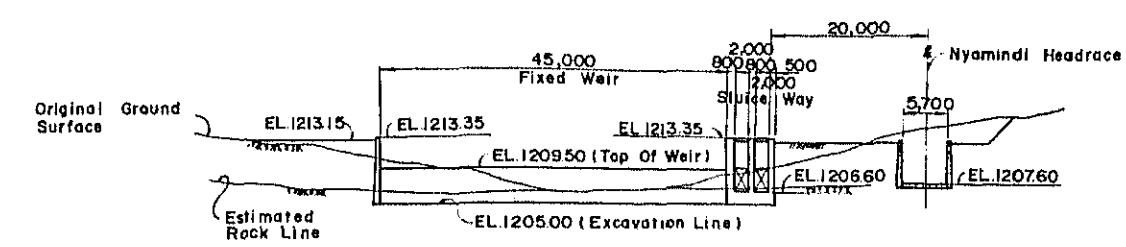


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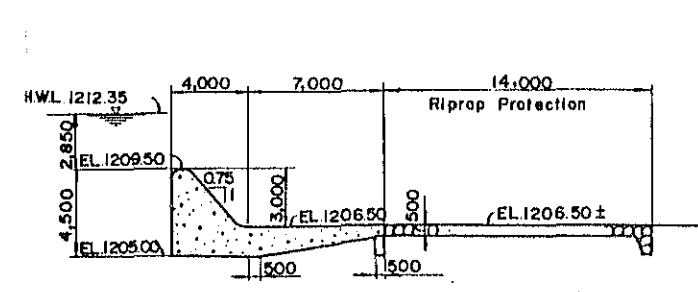
REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING THIBA DAM (5/5) INTAKE AND OUTLET STRUCTURE	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No. 1005



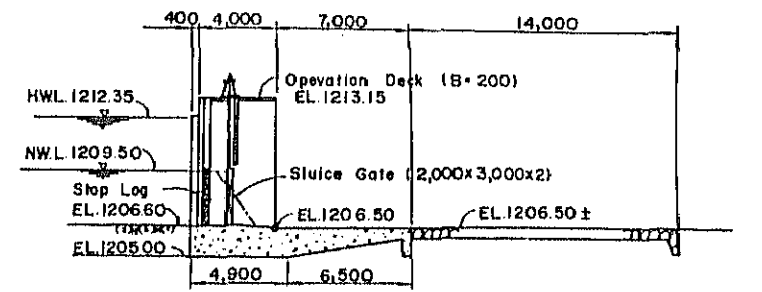
PLAN OF NEW NYAMINDI HEADWORKS



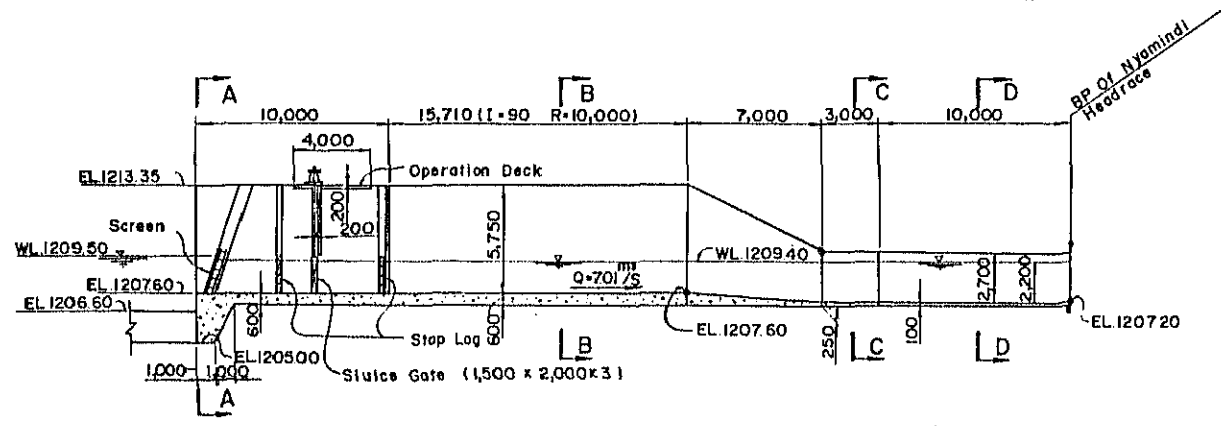
PROFILE OF WEIR



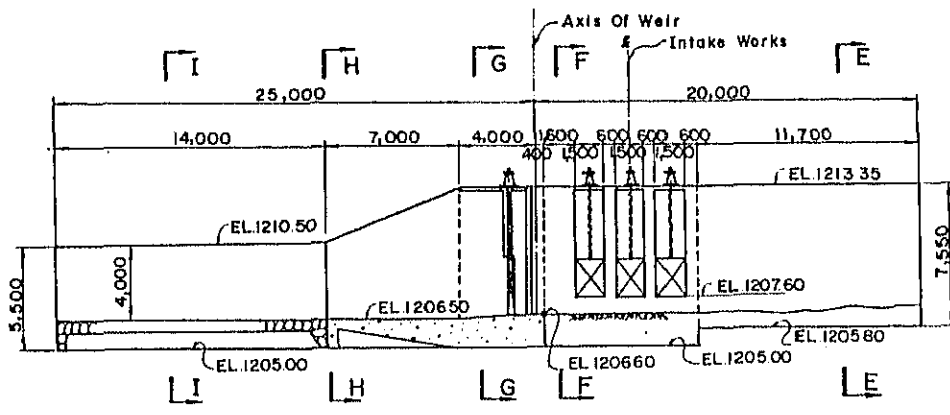
CROSS SECTION OF FIXED WEIR



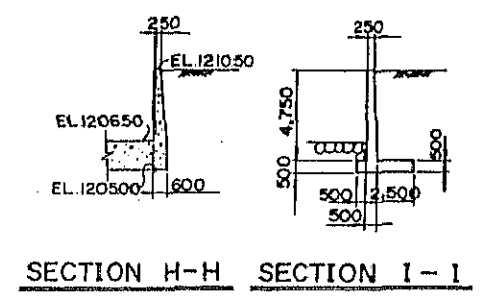
CROSS SECTION OF SAND SLUICWAY



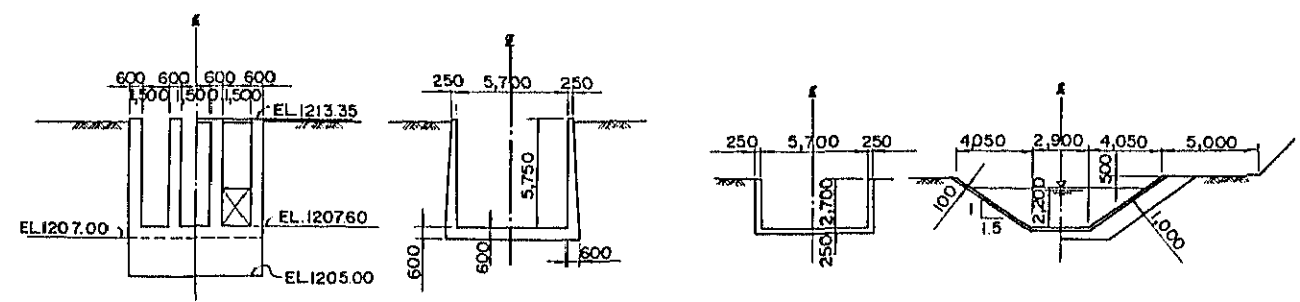
PROFILE OF INTAKE WORKS



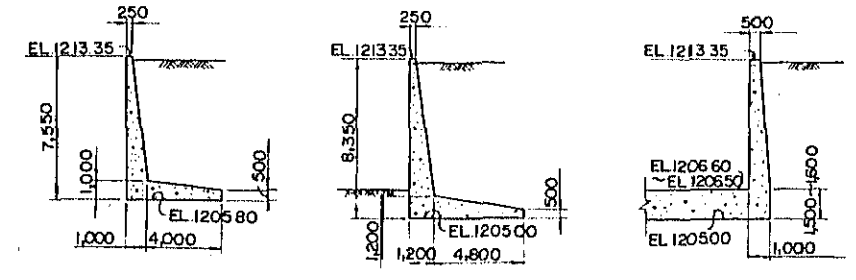
PROFILE OF INTAKE SIDE WALL



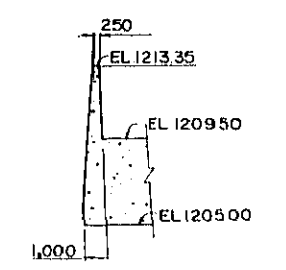
SECTION H-H SECTION I-I



SECTION A-A SECTION B-B SECTION C-C SECTION D-D

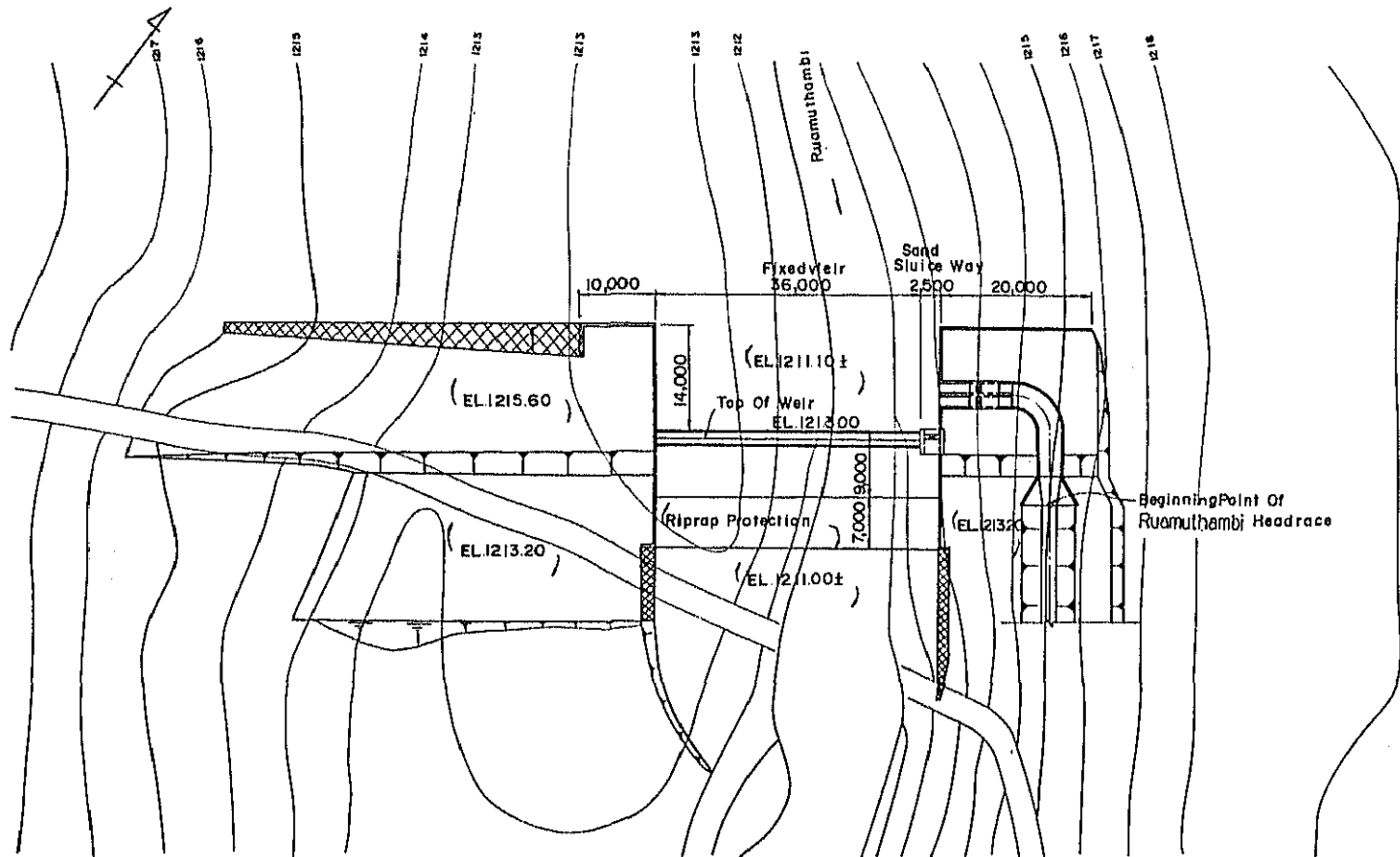


SECTION E-E SECTION F-F SECTION G-G

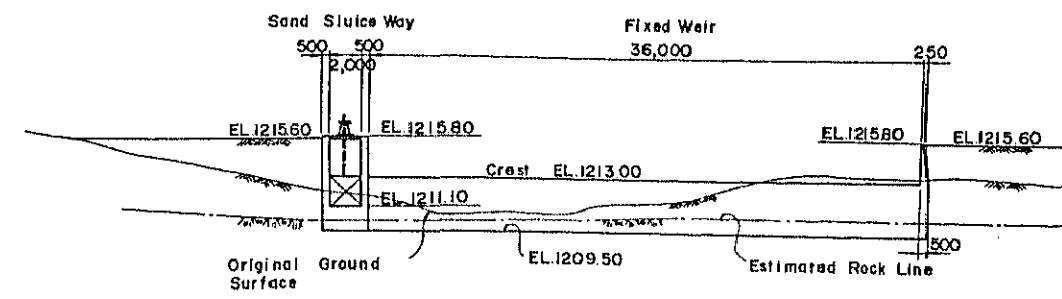


SECTION J-J

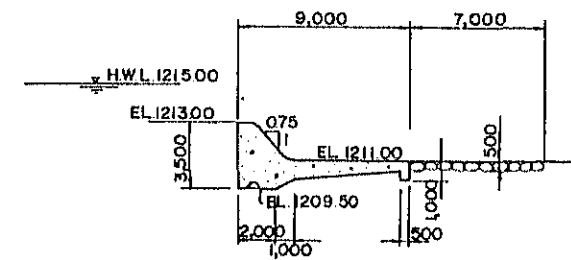
REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING NYAMINDI HEADWORKS	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No. 2001



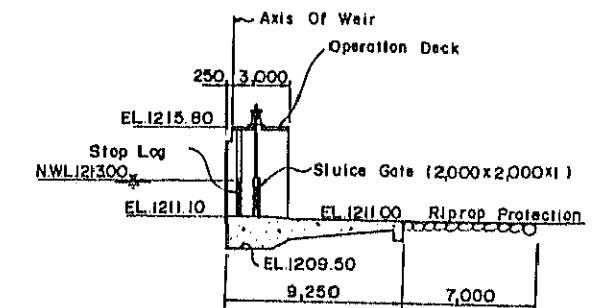
PLAN OF RUAMUTHAMBI HEADWORKS



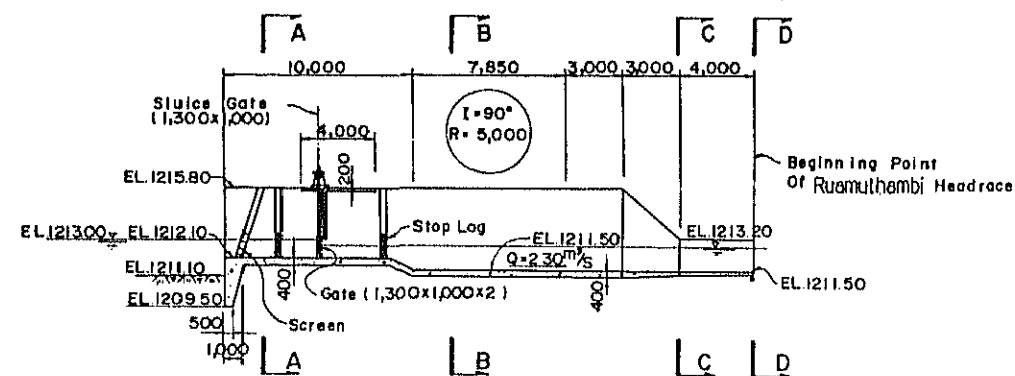
PROFILE OF WEIR



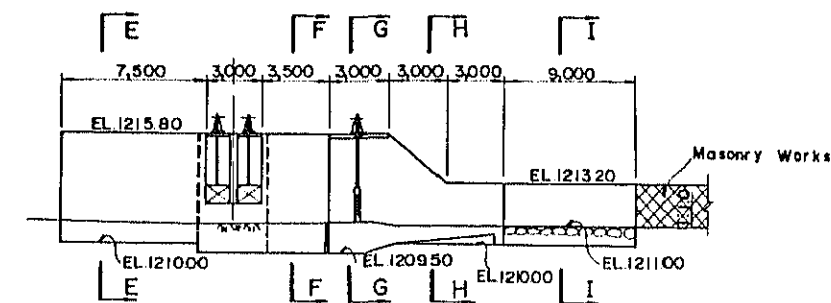
CROSS SECTION OF FIXED WEIR



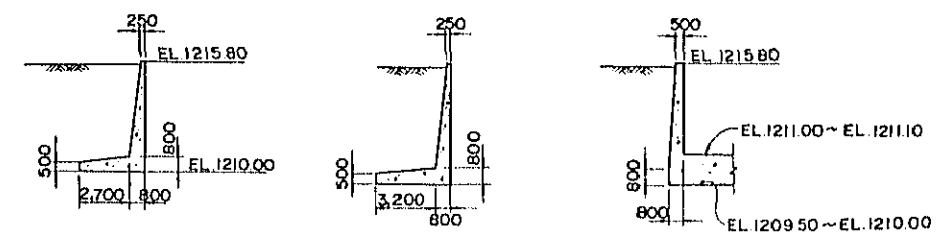
CROSS SECTION OF SAND SLUICeway



PROFILE OF INTAKE WORKS



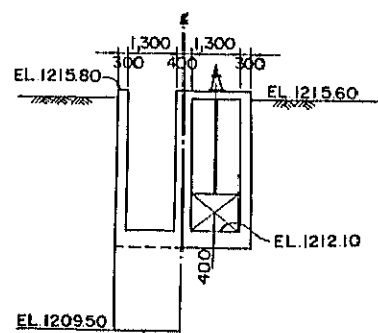
PROFILE OF INTAKE SIDE WALL



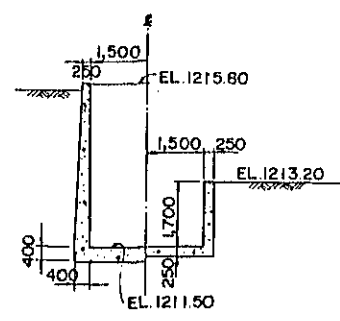
SECTION E-E

SECTION F-F

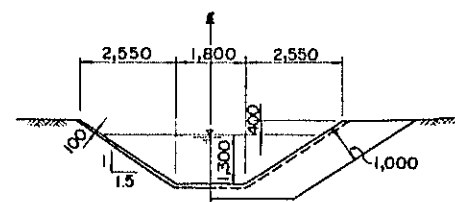
SECTION G-G



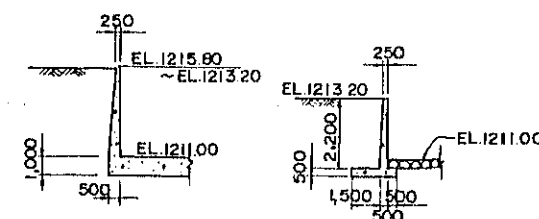
SECTION A-A



SECTION B-B C-C

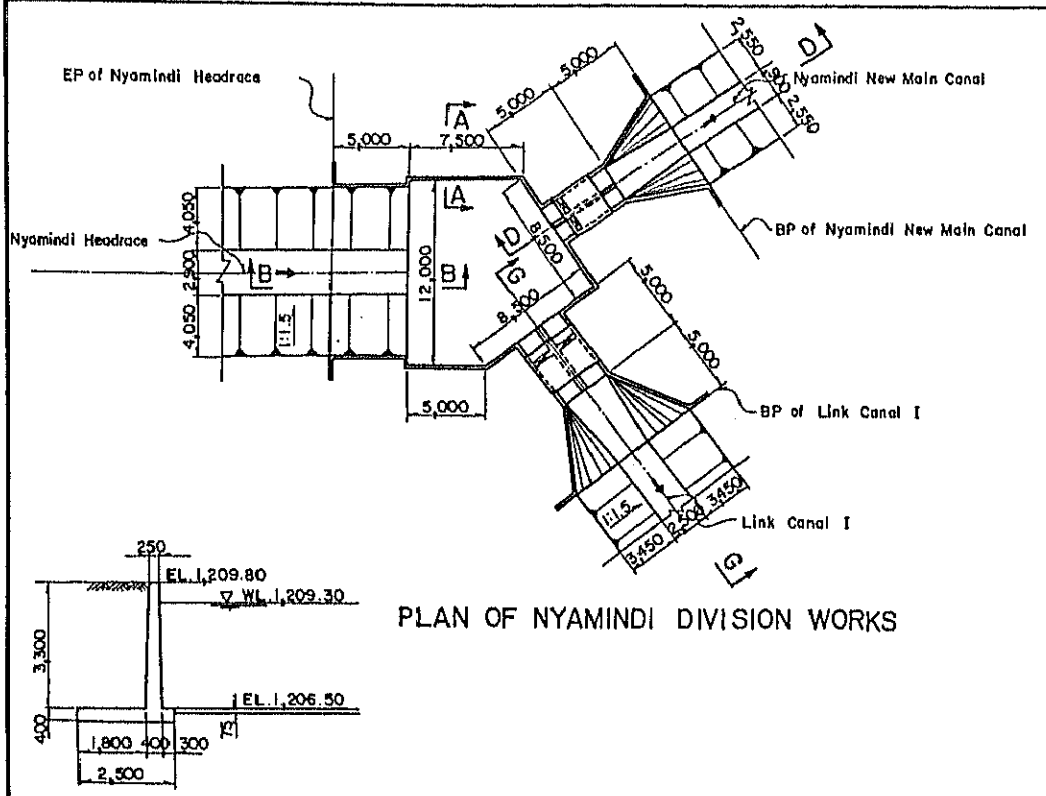


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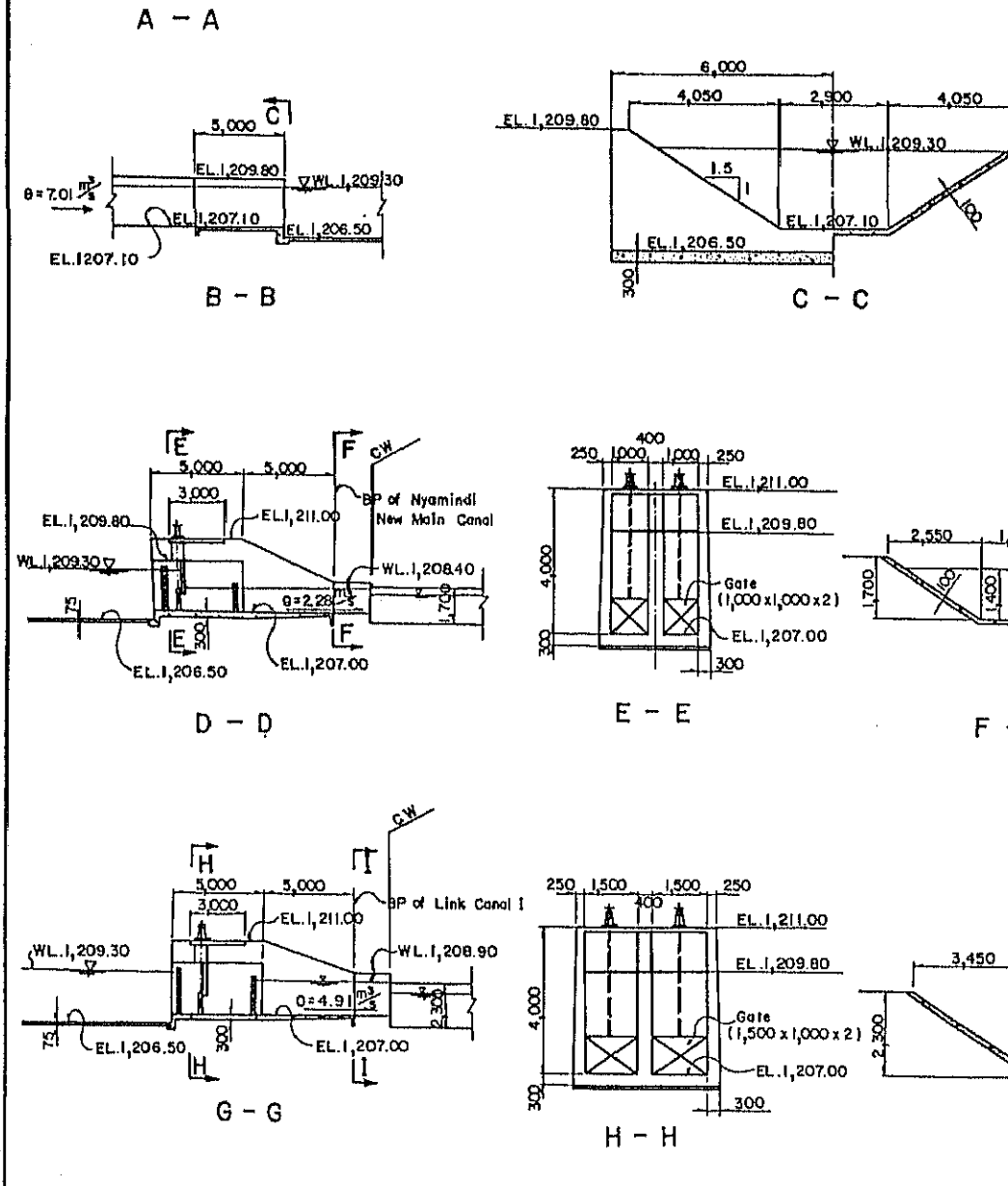


SECTION H-H SECTION I-I

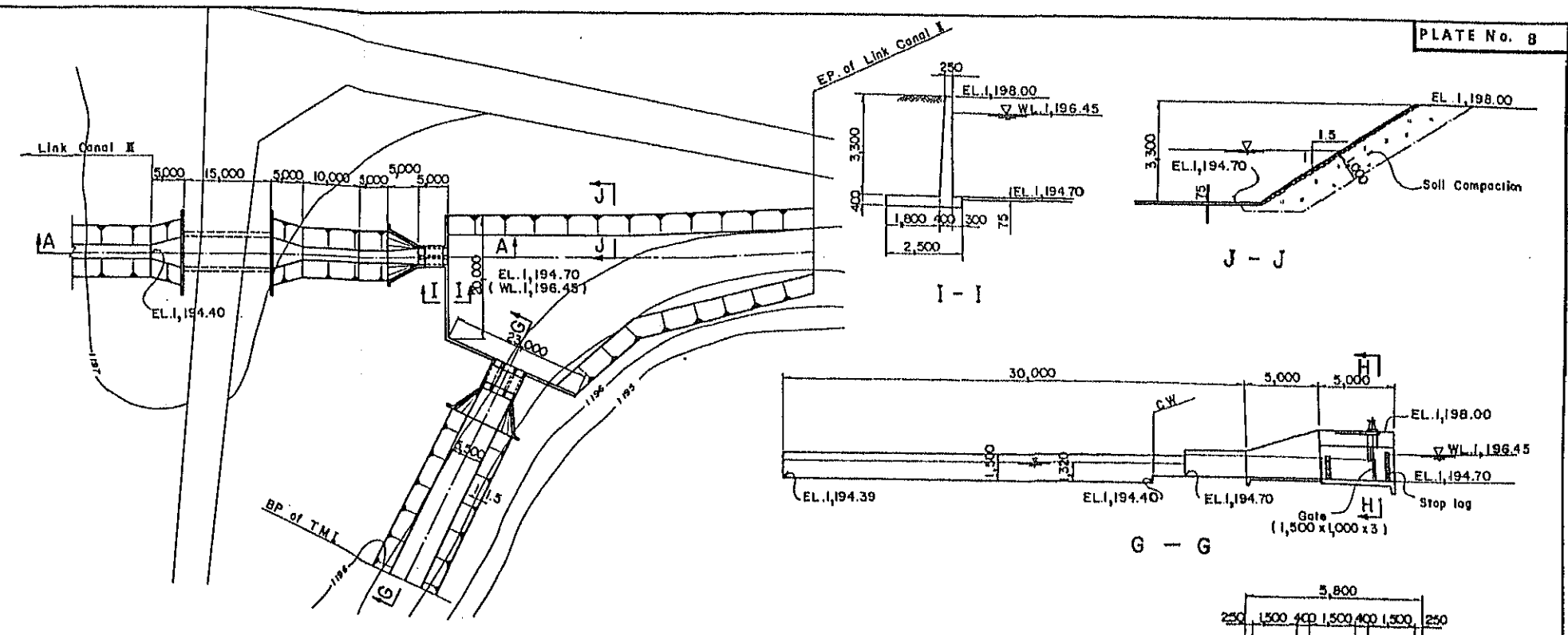
REPUBLIC OF KENYA	
NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING	
RUAMUTHAMBI HEADWORKS	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No. 2002



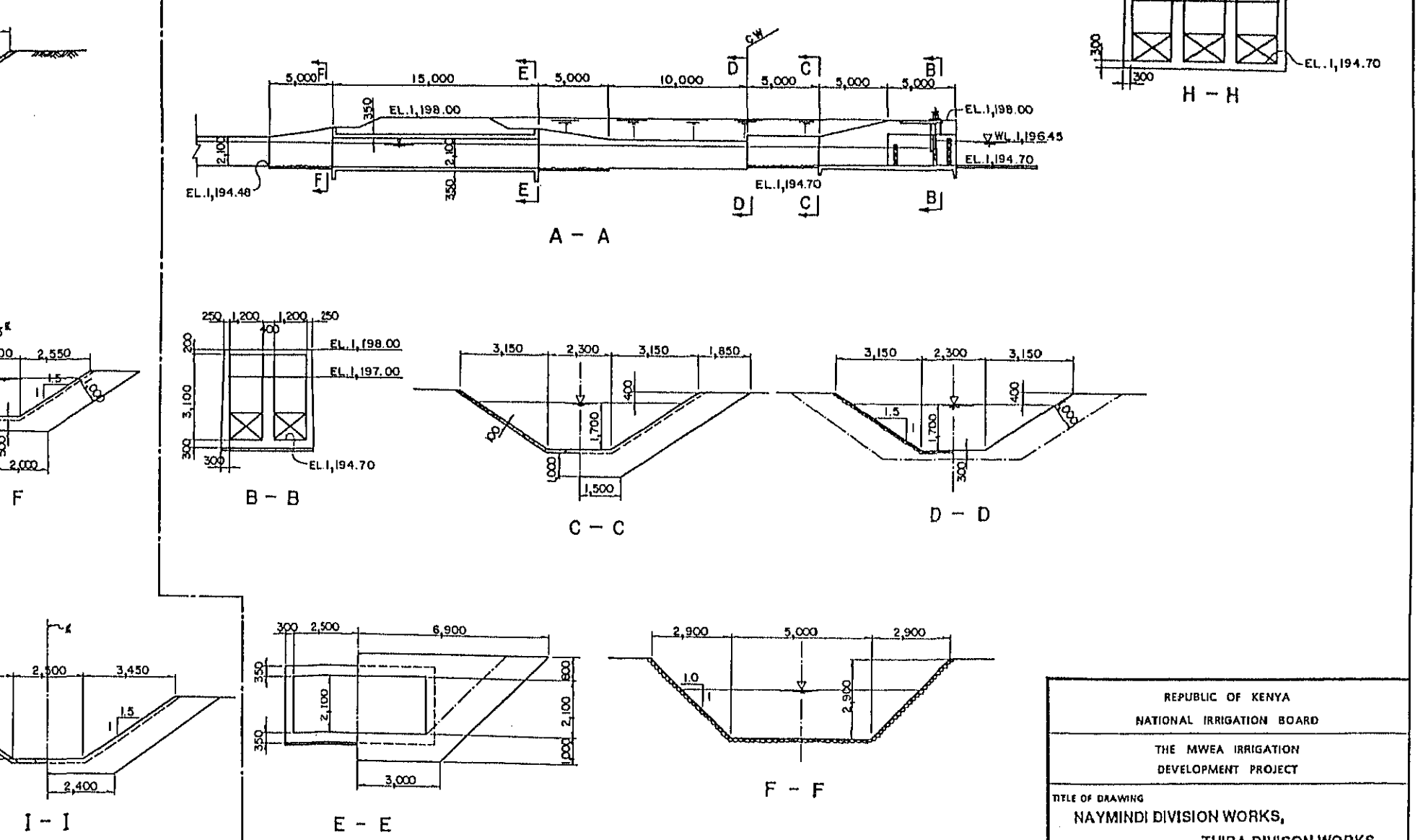
PLAN OF NYAMINDI DIVISION WORKS



NYAMINDI DIVISION WORKS



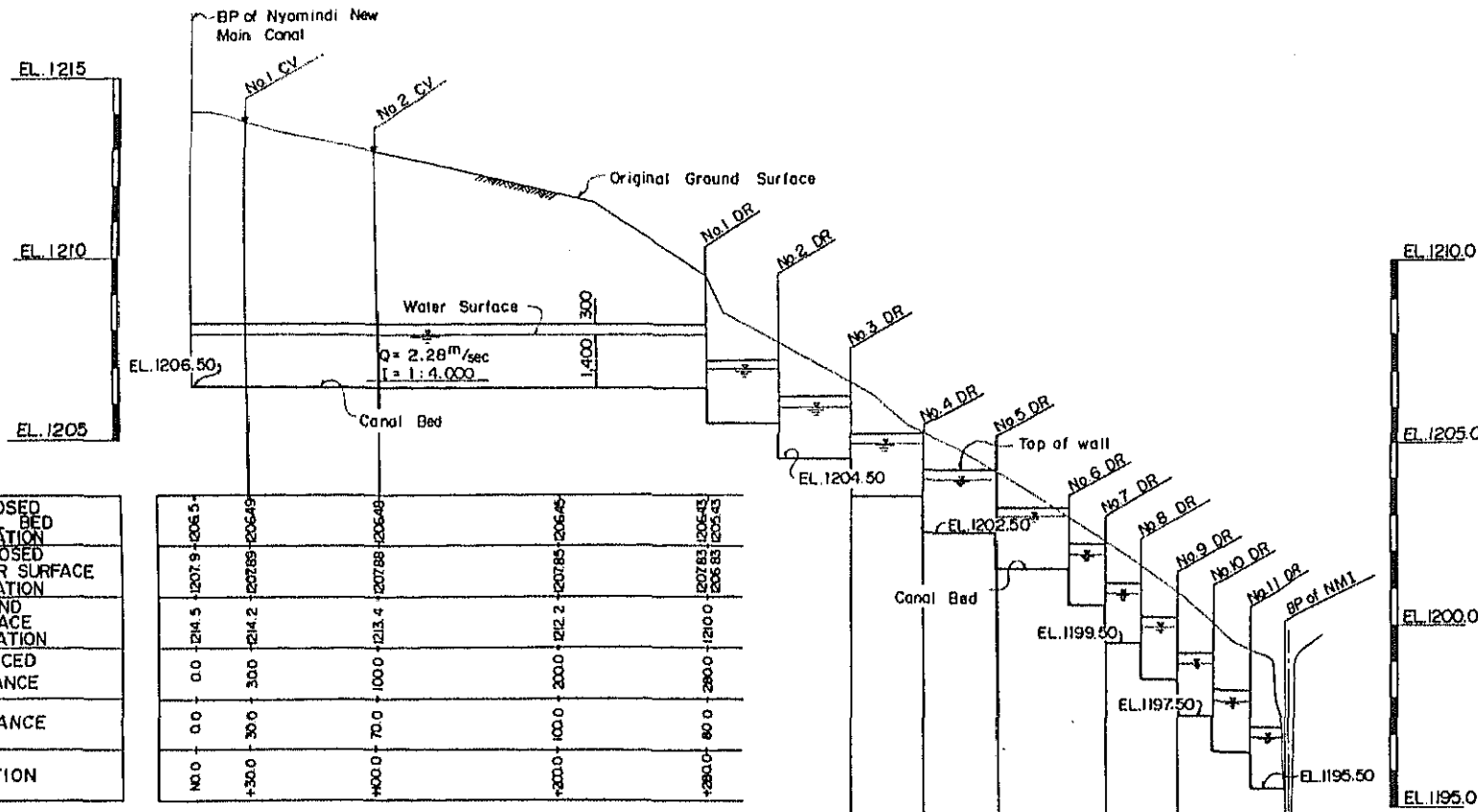
PLAN OF THIBA DIVISION WORKS



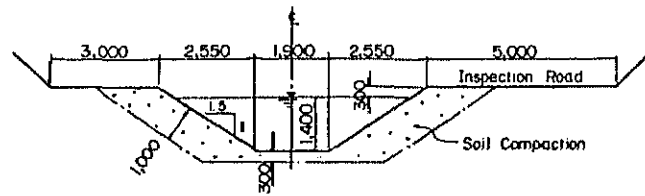
THIBA DIVISION WORKS

REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING NYAMINDI DIVISION WORKS, THIBA DIVISION WORKS	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No. 2003

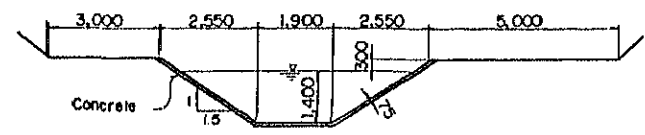
NYAMINDI NEW MAIN CANAL



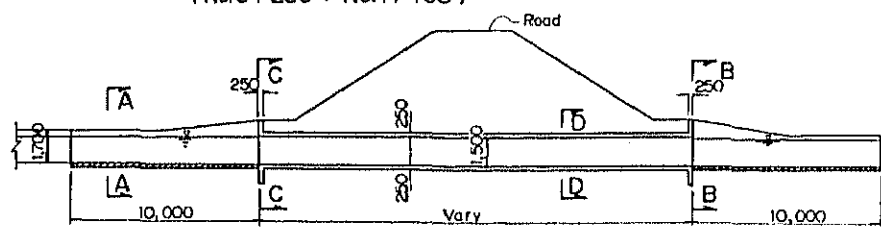
PROPOSED CANAL BED ELEVATION	PROPOSED WATER SURFACE ELEVATION	GROUND SURFACE ELEVATION	REDUCED DISTANCE	DISTANCE	STATION
1206.5	1207.9	1206.5	0.0	0.0	No. 0
1206.48	1207.88	1206.48	3.0	30.0	+30.0
1206.45	1207.85	1206.45	100.0	70.0	+400.0
1206.43	1207.83	1206.43	200.0	100.0	+600.0
1206.43	1207.83	1206.43	280.0	80.0	+880.0



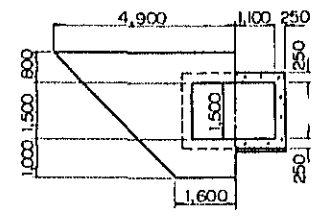
STANDARD CANAL CROSS SECTION (No. 0 ~ No. 0 + 280.0)



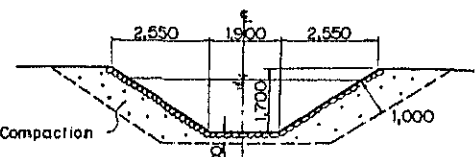
STANDARD CANAL CROSS SECTION (No. 0+280 ~ No. 1+ 100)



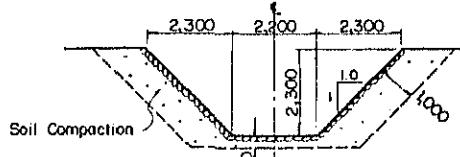
PROFILE OF BOX CULVERT



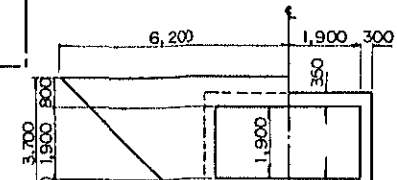
C-C D-D



A - A

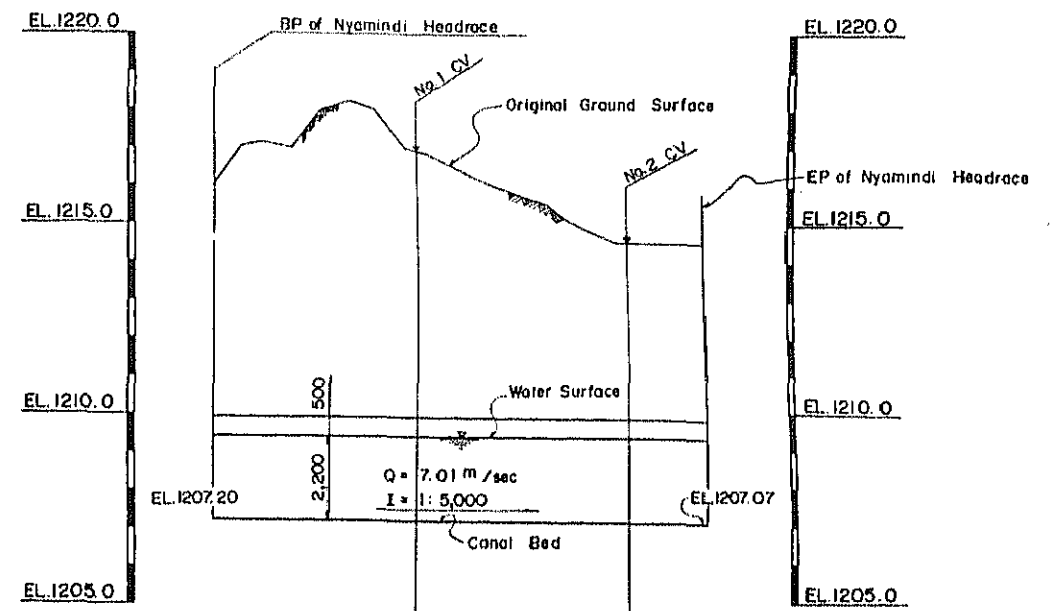


B - B



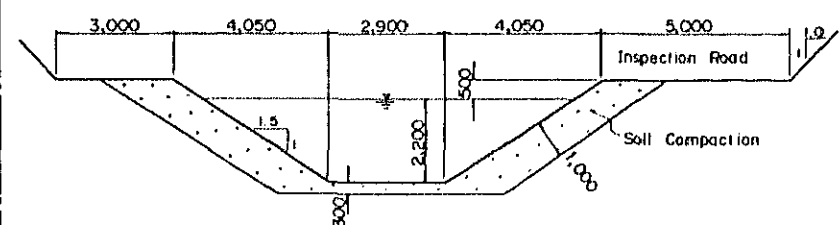
C - C D - D

NYAMINDI HEADRACE

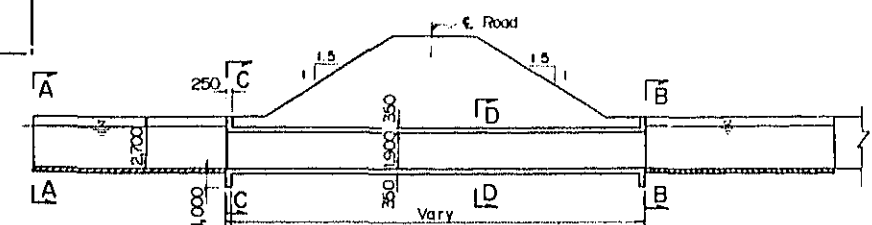


PROPOSED CANAL BED ELEVATION	PROPOSED WATER SURFACE ELEVATION	GROUND SURFACE ELEVATION	REDUCED DISTANCE	DISTANCE	STATION
1207.20	1209.40	1206.0	0.0	0.0	No. 0
1207.18	1209.38	1207.0	100.0	100.0	+100.0
1207.16	1209.35	1207.1	200.0	100.0	+200.0
1207.15	1209.35	1206.9	255.0	55.0	+255.0
1207.14	1209.34	1206.6	300.0	45.0	+300.0
1207.12	1209.32	1205.8	400.0	100.0	+400.0
1207.10	1209.30	1204.7	500.0	100.0	+500.0
1207.09	1209.29	1204.5	540.0	40.0	+540.0
1207.08	1209.28	1204.5	600.0	60.0	+600.0
1207.07	1209.27	1204.5	640.0	40.0	+640.0

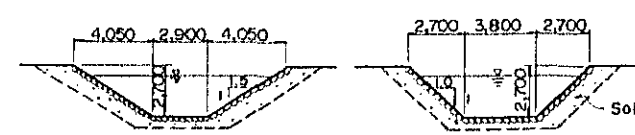
PROFILE OF NYAMINDI HEADRACE



STANDARD CANAL CROSS SECTION



PROFILE OF BOX CULVERT



A - A

B - B

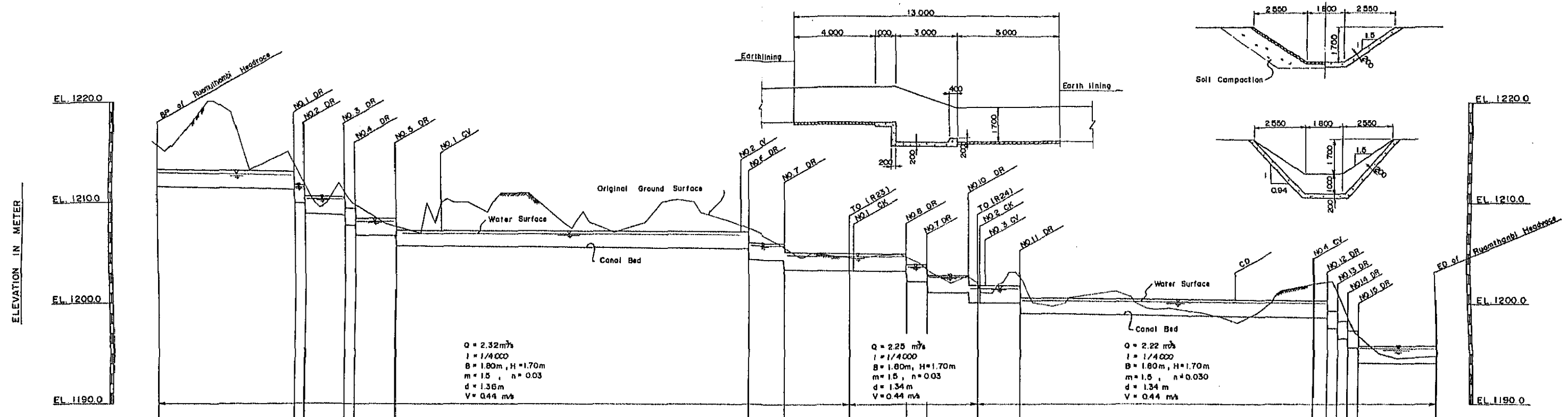
REPUBLIC OF KENYA  
NATIONAL IRRIGATION BOARD

THE MWEA IRRIGATION  
DEVELOPMENT PROJECT

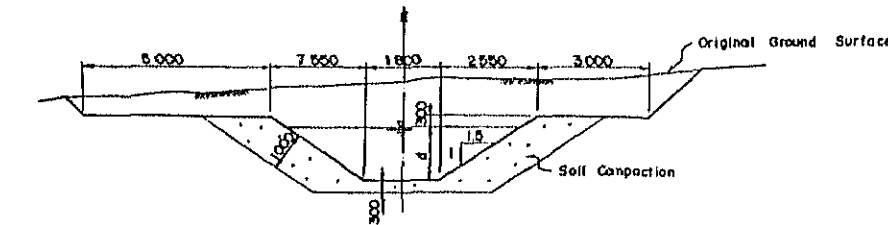
TITLE OF DRAWING  
NYAMINDI HEADRACE,  
NYAMINDI NEW MAIN CANAL

JAPAN INTERNATIONAL COOPERATION AGENCY  
TOKYO JAPAN

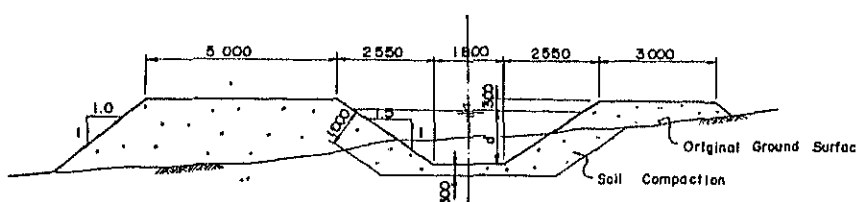
DWG. No.  
2004



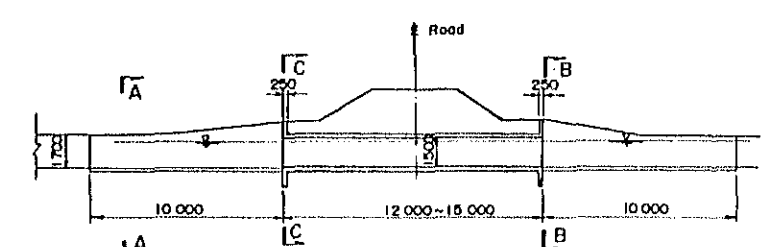
PROPOSED CANAL BED ELEVATION	PROPOSED WATER SURFACE ELEVATION	GROUND SURFACE ELEVATION	REDUCED DISTANCE	DISTANCE	STATION
1211.90		1218.6	0.0	0.0	NO. 0
1211.35		1220.0	250.0	250.0	NO. 1
1209.90		1213.6	500.0	750.0	NO. 2
1207.75		1211.0	750.0	1000.0	NO. 3
1206.75		1208.4	1000.0	1250.0	NO. 4
1206.75		1207.6	1250.0	1500.0	NO. 5
1206.75		1207.2	1500.0	1750.0	NO. 6
1206.75		1210.0	1750.0	2000.0	NO. 7
1206.75		1209.9	2000.0	2250.0	NO. 8
1206.75		1208.0	2250.0	2500.0	NO. 9
1206.75		1208.0	2500.0	2750.0	NO. 10
1206.75		1208.0	2750.0	3000.0	NO. 11
1206.75		1207.7	3000.0	3250.0	NO. 12
1206.75		1207.4	3250.0	3500.0	NO. 13
1206.75		1207.4	3500.0	3750.0	NO. 14
1206.75		1207.4	3750.0	4000.0	NO. 15
1206.75		1207.4	4000.0	4250.0	NO. 16
1206.75		1207.4	4250.0	4500.0	NO. 17
1206.75		1207.4	4500.0	4750.0	NO. 18
1206.75		1207.4	4750.0	5000.0	NO. 19
1206.75		1207.4	5000.0	5250.0	NO. 20
1206.75		1207.4	5250.0	5500.0	NO. 21
1206.75		1207.4	5500.0	5750.0	NO. 22
1206.75		1207.4	5750.0	6000.0	NO. 23
1206.75		1207.4	6000.0	6250.0	NO. 24
1206.75		1207.4	6250.0	6500.0	NO. 25
1206.75		1207.4	6500.0	6750.0	NO. 26
1206.75		1207.4	6750.0	7000.0	NO. 27
1206.75		1207.4	7000.0	7250.0	NO. 28
1206.75		1207.4	7250.0	7500.0	NO. 29
1206.75		1207.4	7500.0	7750.0	NO. 30
1206.75		1207.4	7750.0	8000.0	NO. 31
1206.75		1207.4	8000.0	8250.0	NO. 32
1206.75		1207.4	8250.0	8500.0	NO. 33
1206.75		1207.4	8500.0	8750.0	NO. 34
1206.75		1207.4	8750.0	9000.0	NO. 35
1206.75		1207.4	9000.0	9250.0	NO. 36
1206.75		1207.4	9250.0	9500.0	NO. 37
1206.75		1207.4	9500.0	9750.0	NO. 38
1206.75		1207.4	9750.0	10000.0	NO. 39
1206.75		1207.4	10000.0	10250.0	NO. 40



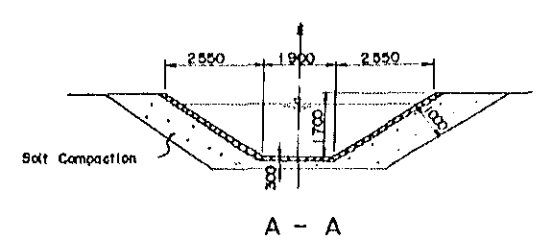
STANDARD CANAL CROSS SECTION (Cut)



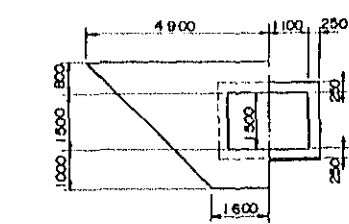
STANDARD CANAL CROSS SECTION (Cut and Bank)



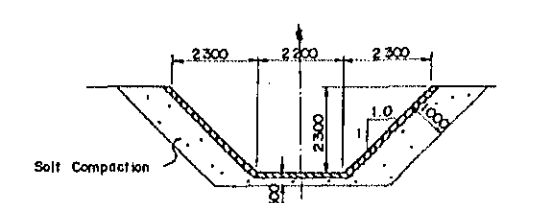
PROFILE OF BOX CULVERT



A - A



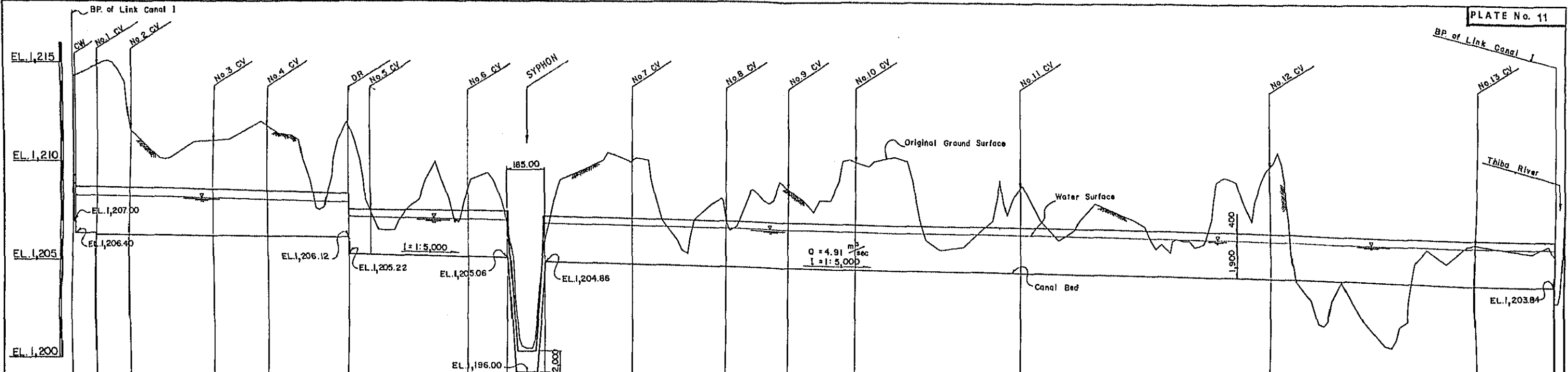
C - C



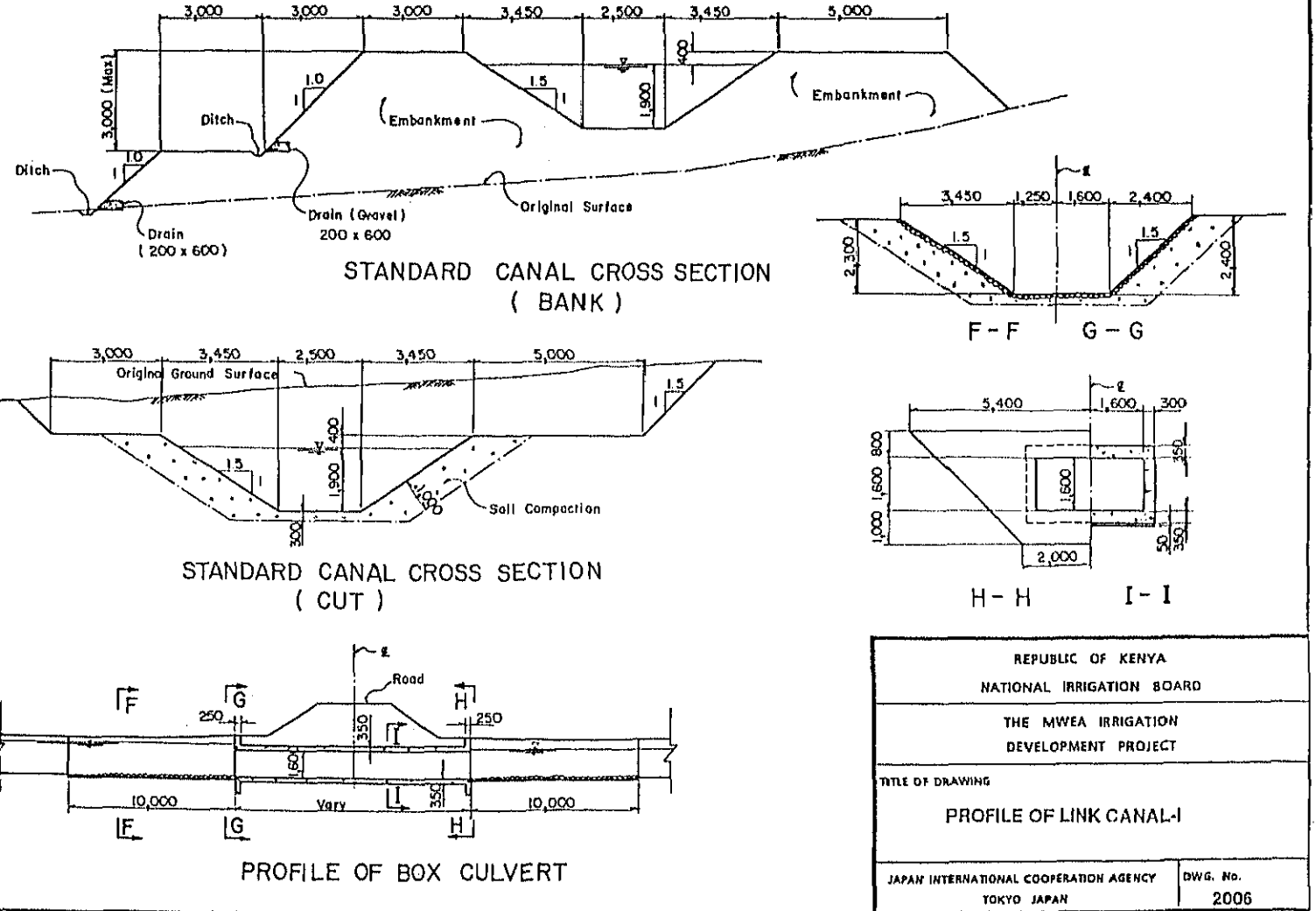
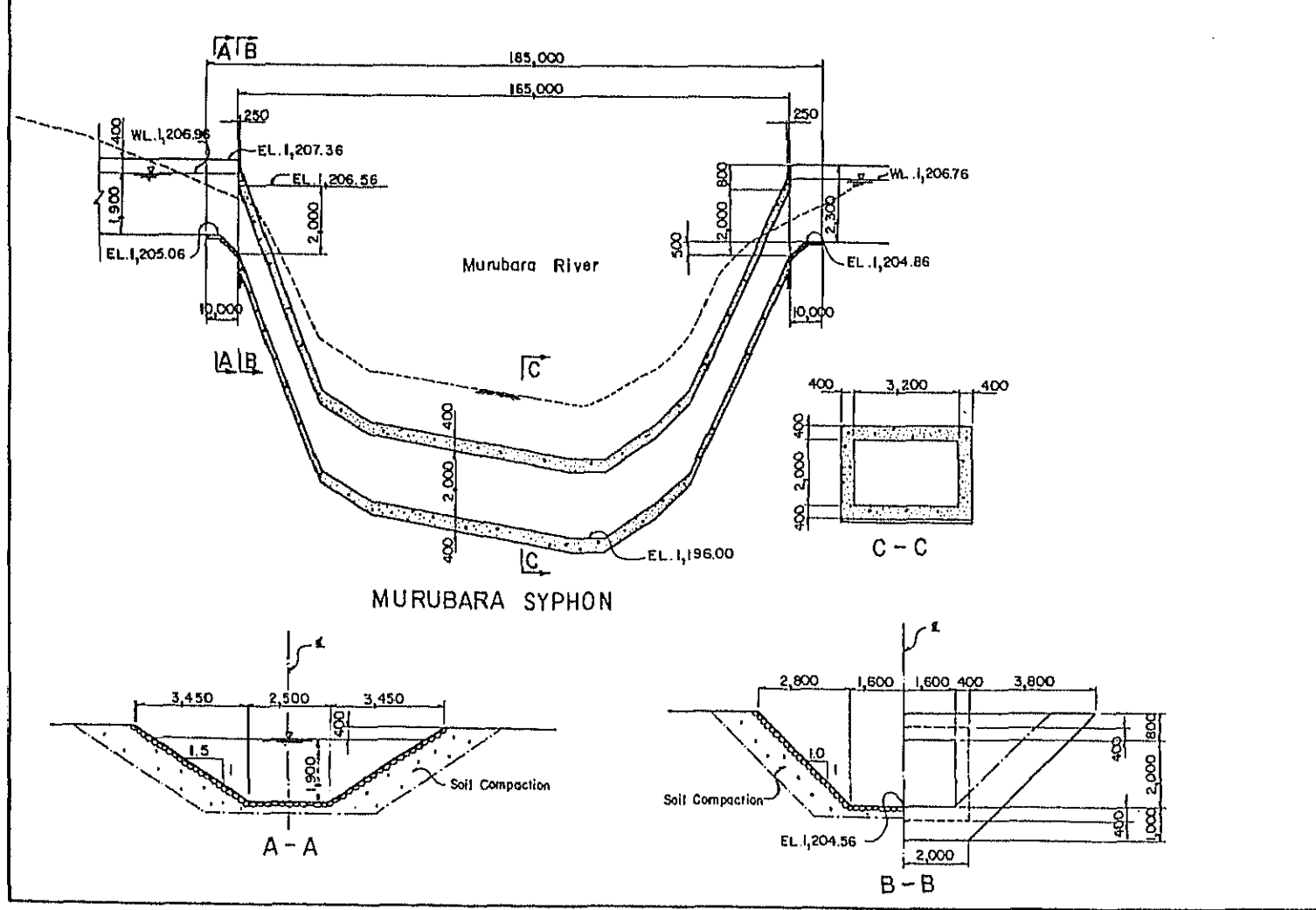
B - B

REPUBLIC OF KENYA	
NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING	
RUAMUTHAMBI HEADRACE	
JAPAN INTERNATIONAL COOPERATION AGENCY	DWG. No.
TOKYO JAPAN	2005

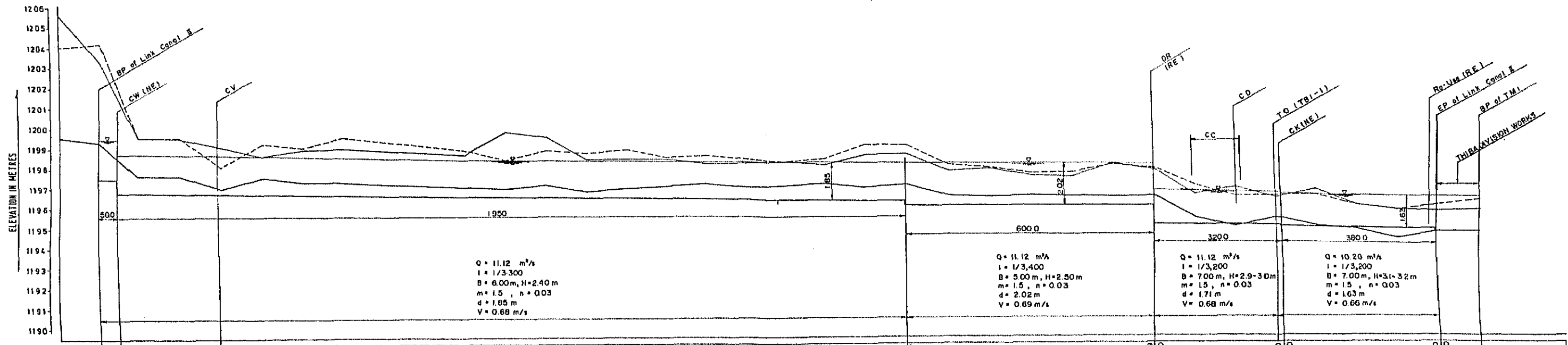




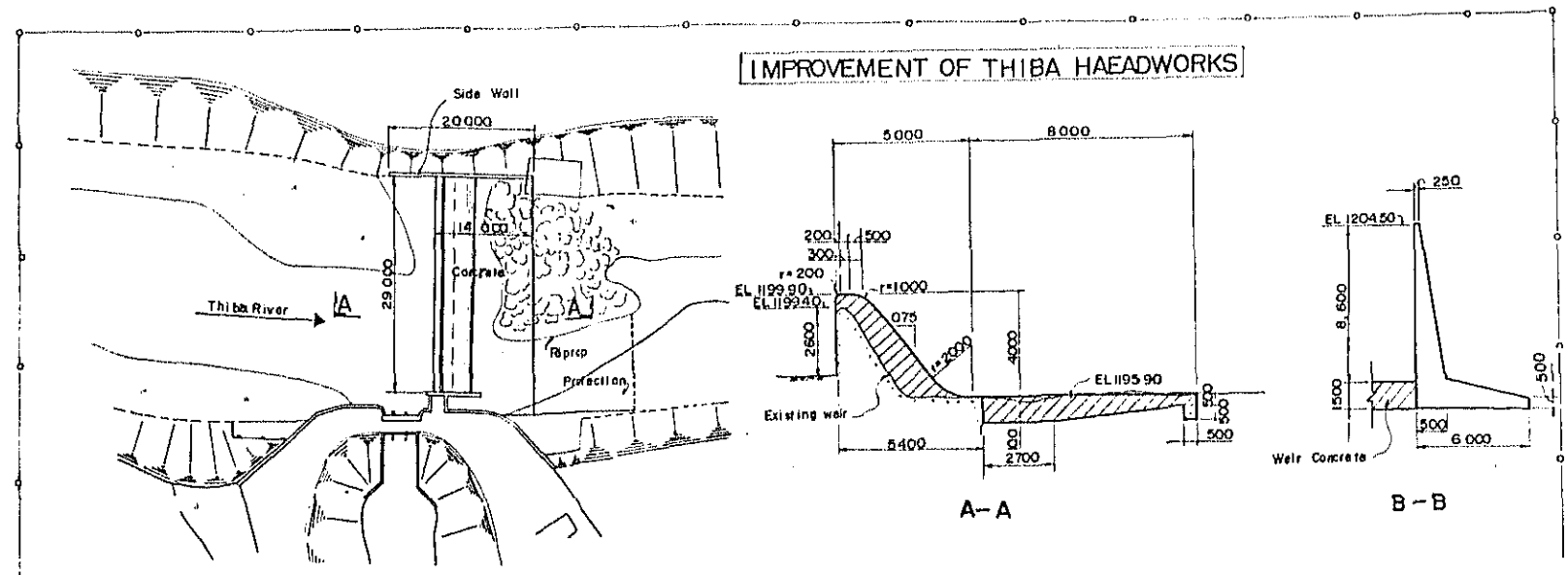
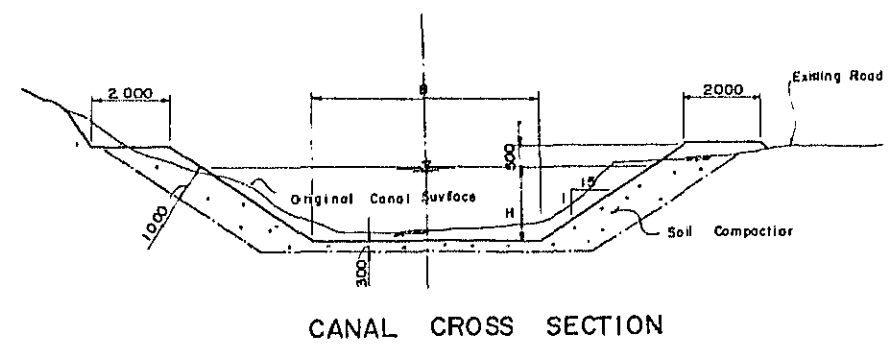
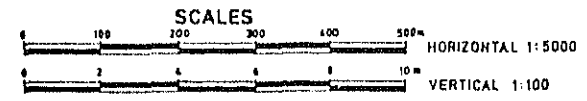
PROPOSED CANAL BED ELEVATION	1207.00	1206.38	1206.34	1206.28	1206.20	1206.12	1206.22	1205.22	1205.06	1204.86	1204.79	1204.77	1204.74	1204.64	1204.51	1204.54	1204.48	1204.44	1204.36	1204.39	1204.34	1204.28	1204.24	1204.19	1204.14	1204.12	1204.08	1204.04	1203.99	1203.94	1203.94	1203.84																	
PROPOSED WATER SURFACE ELEVATION	Water Depth H=1,900																																																
GROUND SURFACE ELEVATION	1204.3	1204.9	1204.2	1204.5	1204.1	1204.8	1204.6	1204.7	1204.6	1204.7	1204.8	1204.8	1204.8	1204.8	1204.9	1204.9	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8													
REDUCED DISTANCE	0.0	120.0	250.0	400.0	600.0	800.0	1000.0	1200.0	1400.0	1600.0	1800.0	2000.0	2200.0	2400.0	2600.0	2800.0	3000.0	3200.0	3400.0	3600.0	3800.0	4000.0	4200.0	4400.0	4600.0	4800.0	5000.0	5200.0	5400.0	5600.0	5800.0	6000.0	6200.0	6400.0	6600.0	6800.0	7000.0	7200.0	7400.0	7600.0	7800.0	8000.0							
DISTANCE	0.0	120.0	250.0	400.0	600.0	800.0	1000.0	1200.0	1400.0	1600.0	1800.0	2000.0	2200.0	2400.0	2600.0	2800.0	3000.0	3200.0	3400.0	3600.0	3800.0	4000.0	4200.0	4400.0	4600.0	4800.0	5000.0	5200.0	5400.0	5600.0	5800.0	6000.0	6200.0	6400.0	6600.0	6800.0	7000.0	7200.0	7400.0	7600.0	7800.0	8000.0							
STATION	No. 0	+200.0	+250.0	+280.0	No. 1	+200.0	+250.0	+280.0	+300.0	+310.0	+330.0	No. 2	+250.0	+300.0	+330.0	+350.0	+370.0	+390.0	+410.0	+430.0	+450.0	+470.0	+490.0	+510.0	+530.0	+550.0	+570.0	+590.0	+610.0	+630.0	+650.0	+670.0	+690.0	+710.0	+730.0	+750.0	+770.0	+790.0	+810.0	+830.0	+850.0	+870.0	+890.0	+910.0	+930.0	+950.0	+970.0	+990.0	+1000.0



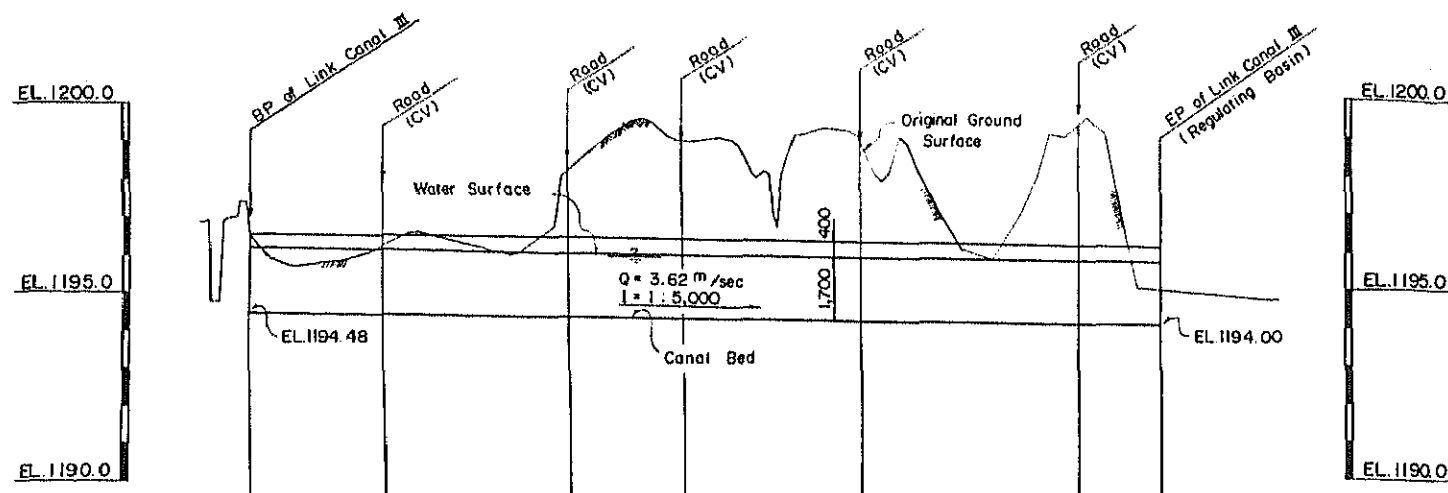
REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD  
 THE MWEA IRRIGATION DEVELOPMENT PROJECT  
 TITLE OF DRAWING  
**PROFILE OF LINK CANAL-I**  
 JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN  
 DWG. No. 2006



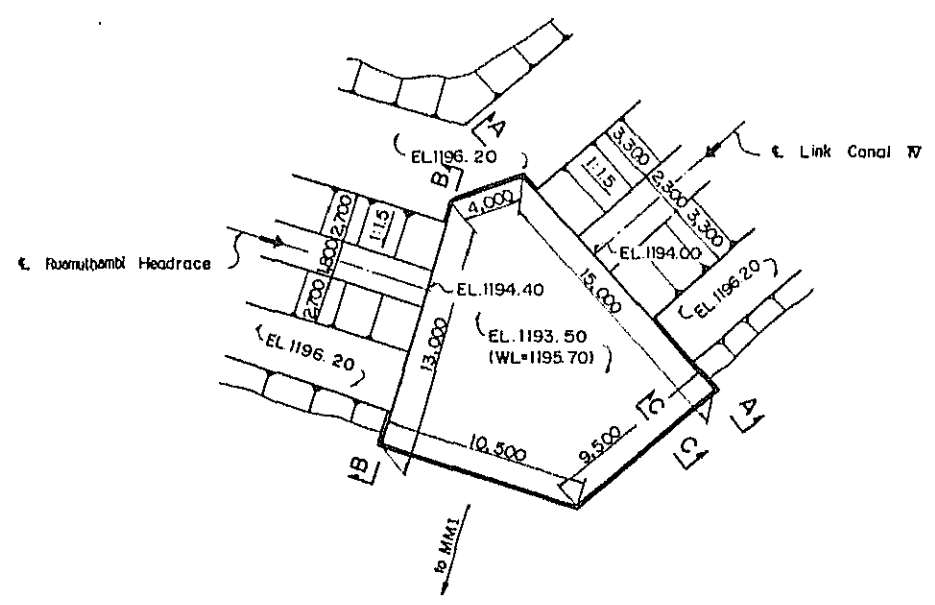
STATION No.	PROPOSED CONDITION				EXISTING CONDITION			
	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION		RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION	
BP	1198.95	1199.40	1197.55		1204.01	1205.58	1199.51	
1	98.93	98.38	97.53	100.00	1204.14	1203.25	99.24	100.00
2	98.35	96.78	96.93	100.00	1199.48	1199.46	97.56	200.00
3				100.00	99.45	99.41	97.57	300.00
4				100.00	97.97	98.95	96.91	400.00
5				100.00	99.08	98.51	97.43	500.00
6				100.00	98.91	98.79	97.21	600.00
7				100.00	98.91	98.87	97.25	700.00
8				100.00	97.12	96.96	95.63	800.00
9				100.00	95.90	95.56	95.62	900.00
10				100.00	96.72	96.60	96.96	1000.00
11				100.00	98.21	98.65	96.86	1100.00
12				100.00	98.73	99.43	97.03	1200.00
13				100.00	98.60	98.30	96.70	1300.00
14				100.00	98.76	98.32	96.87	1400.00
15				100.00	98.38	98.30	96.96	1500.00
16				100.00	98.50	98.08	97.09	1600.00
17				100.00	98.29	98.11	96.93	1700.00
18				100.00	98.22	98.21	96.99	1800.00
19				100.00	98.27	98.02	97.10	1900.00
20				100.00	98.99	98.50	96.91	2000.00
21				100.00	98.98	98.51	97.05	2100.00
22				100.00	98.02	97.68	96.46	2200.00
23				100.00	97.83	97.80	96.41	2300.00
24				100.00	97.53	97.42	96.45	2400.00
25				100.00	97.55	97.35	96.41	2500.00
26				100.00	97.95	98.00	96.34	2600.00
27				100.00	97.75	97.70	96.42	2700.00
28				100.00	95.94	96.49	95.32	2800.00
29				100.00	95.39	96.84	94.90	2900.00
30				100.00	96.45	96.35	95.34	3000.00
31				100.00	96.52	96.79	94.96	3100.00
32				100.00	96.03	96.03	94.83	3200.00
33				100.00	95.81	95.83	94.37	3300.00
34				100.00	95.02	95.70	94.68	3400.00
35				100.00	1196.24	1195.73	1194.67	3500.00



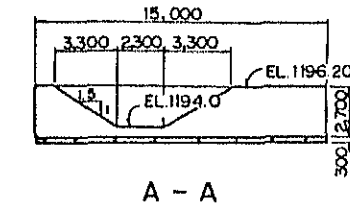
REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD  
 THE MWEA IRRIGATION DEVELOPMENT PROJECT  
 TITLE OF DRAWING  
**PROFILE OF LINK CANAL-II, THIBA HEADWORKS**  
 JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN DWG. No. 2007



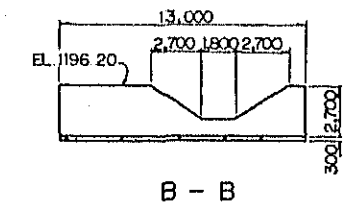
PROPOSED CANAL BED ELEVATION	PROPOSED WATER SURFACE ELEVATION	GROUND SURFACE ELEVATION	REDUCED DISTANCE	DISTANCE	STATION
1194.48		1196.5	0.0	0.0	NO. 0
1194.43		1195.8	250.0	250.0	+250.0
1194.41		1196.7	345.0	345.0	+345.0
1194.39		1196.3	500.0	500.0	NO. 1
1194.33		1196.3	750.0	750.0	+250.0
1194.31		1196.1	835.0	835.0	+335.0
1194.28		1196.4	1000.0	1000.0	NO. 2
1194.25		1196.5	1135.0	1135.0	+135.0
1194.23		1196.5	1250.0	1250.0	+250.0
1194.18		1199.2	1500.0	1500.0	NO. 3
1194.16		1198.9	1600.0	1600.0	+100.0
1194.13		1198.2	1750.0	1750.0	+250.0
1194.08		1196.5	2000.0	2000.0	NO. 4
1194.04		1196.3	2180.0	2180.0	+180.0
1194.03		1196.8	2250.0	2250.0	+250.0
1194.00		1194.9	2400.0	2400.0	+400.0



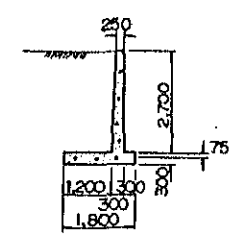
PLAN OF REGULATING BASIN



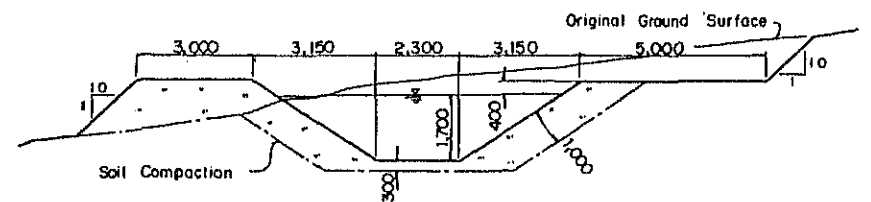
A - A



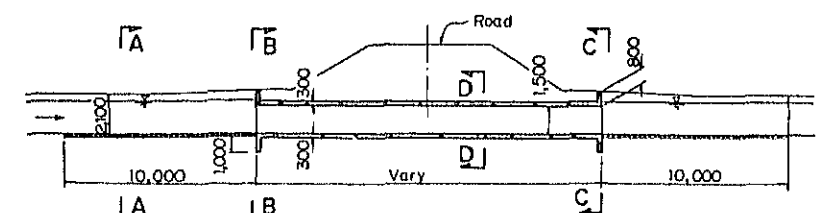
B - B



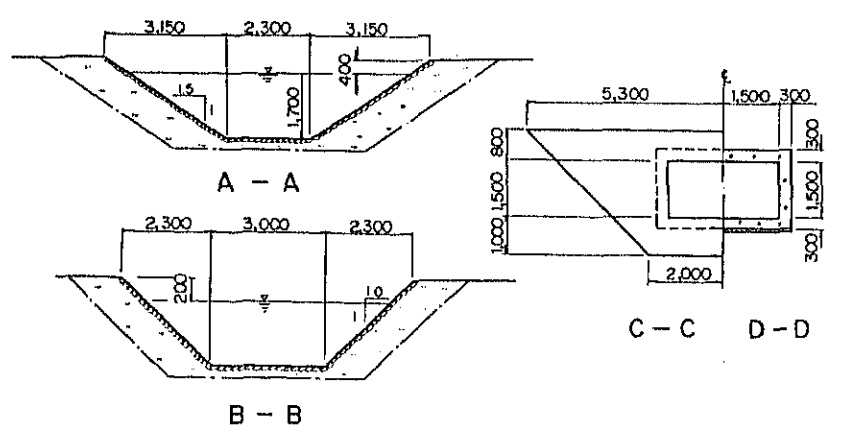
C - C



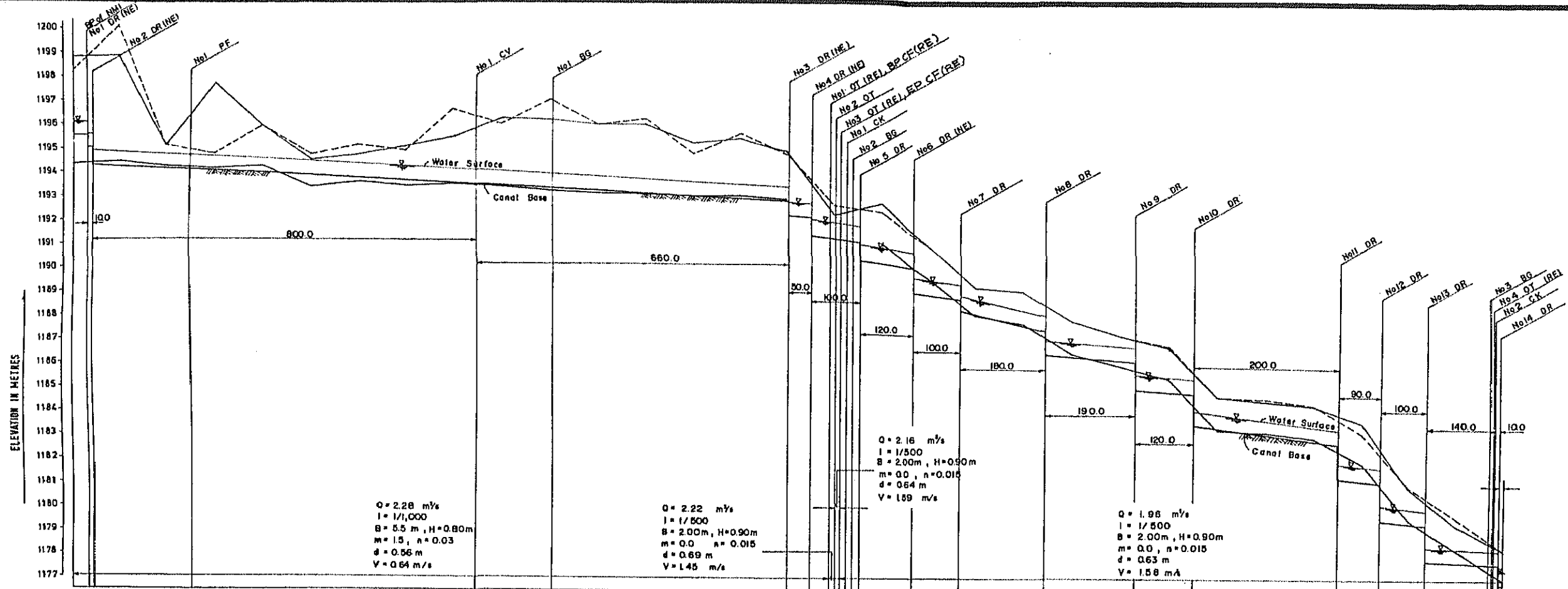
STANDARD CANAL CROSS SECTION



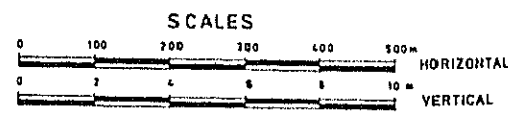
PROFILE OF BOX CULVERT

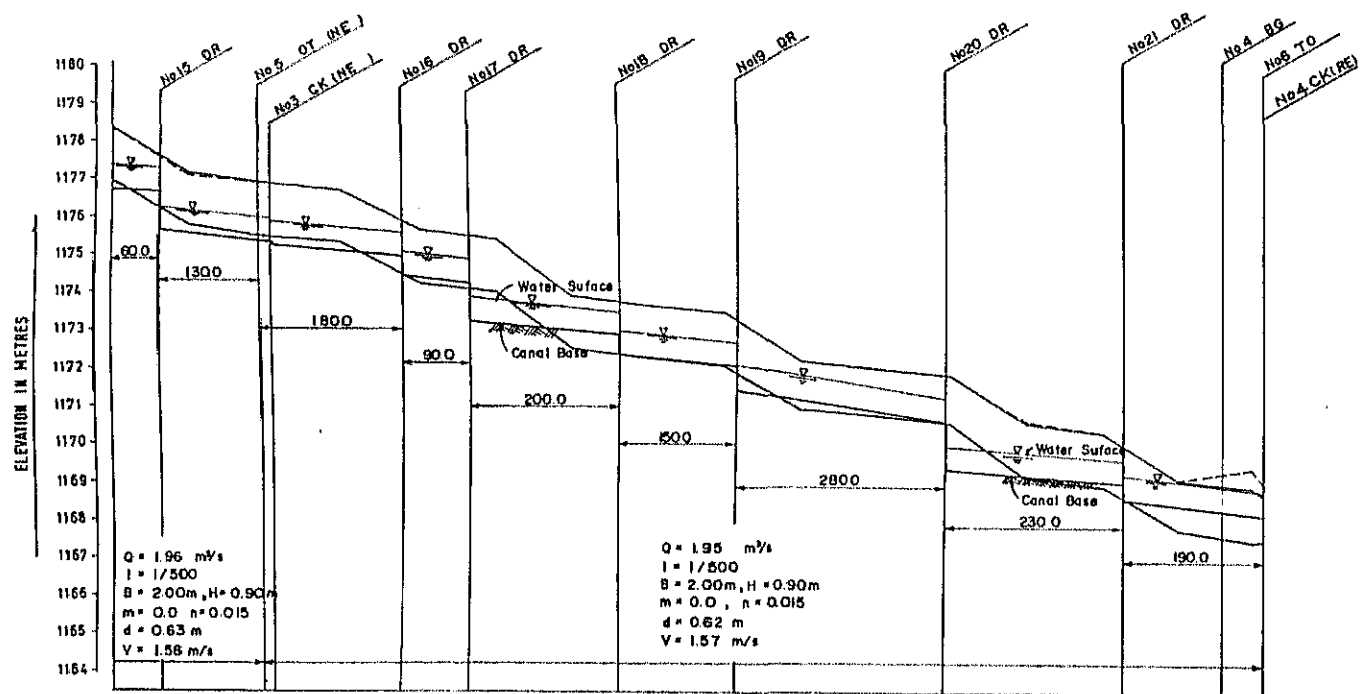


REPUBLIC OF KENYA NATIONAL IRRIGATION BOARD	
THE MWEA IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING PROFILE OF LINK CANAL-III, REGULATING BASEN	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No. 2008

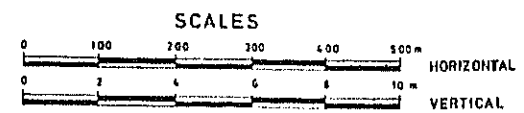


STATION No.	PROPOSED CONDITION			EXISTING CONDITION		
	EMBAKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION
BP	1198.30	1198.30	1198.30	1198.36	1198.85	1194.35
1	1198.31	1198.31	1198.31	1198.15	1198.61	1194.48
2	1198.31	1198.31	1198.31	1198.14	1198.57	1194.27
3	1198.31	1198.31	1198.31	1198.82	1197.78	1194.19
4	1198.31	1198.31	1198.31	1198.96	1198.96	1194.24
5	1198.31	1198.31	1198.31	1198.73	1198.49	1194.34
6	1198.31	1198.31	1198.31	1198.13	1198.70	1193.59
7	1198.31	1198.31	1198.31	1198.91	1198.06	1193.39
8	1198.31	1198.31	1198.31	1198.60	1198.43	1193.47
9	1198.31	1198.31	1198.31	1198.02	1198.26	1193.39
10	1198.31	1198.31	1198.31	1198.06	1198.19	1193.25
11	1198.31	1198.31	1198.31	1198.99	1198.01	1193.14
12	1198.31	1198.31	1198.31	1198.25	1198.25	1193.32
13	1198.31	1198.31	1198.31	1198.79	1198.26	1193.02
14	1198.31	1198.31	1198.31	1198.68	1198.48	1193.07
15	1198.31	1198.31	1198.31	1198.79	1198.93	1192.89
16	1198.31	1198.31	1198.31	1198.65	1198.64	1192.64
17	1198.31	1198.31	1198.31	1198.41	1198.77	1192.82
18	1198.31	1198.31	1198.31	1198.09	1198.09	1192.71
19	1198.31	1198.31	1198.31	1198.35	1198.33	1192.15
20	1198.31	1198.31	1198.31	1198.16	1198.14	1192.79
21	1198.31	1198.31	1198.31	1198.90	1198.91	1192.49
22	1198.31	1198.31	1198.31	1198.75	1198.76	1192.54
23	1198.31	1198.31	1198.31	1198.82	1198.75	1192.43
24	1198.31	1198.31	1198.31	1198.70	1198.69	1192.28
25	1198.31	1198.31	1198.31	1198.61	1198.49	1192.27
26	1198.31	1198.31	1198.31	1198.34	1198.31	1192.95
27	1198.31	1198.31	1198.31	1198.14	1198.60	1192.91
28	1198.31	1198.31	1198.31	1198.95	1198.92	1192.55
29	1198.31	1198.31	1198.31	1198.65	1198.36	1192.30
30	1198.31	1198.31	1198.31	1178.33	1178.32	1176.94

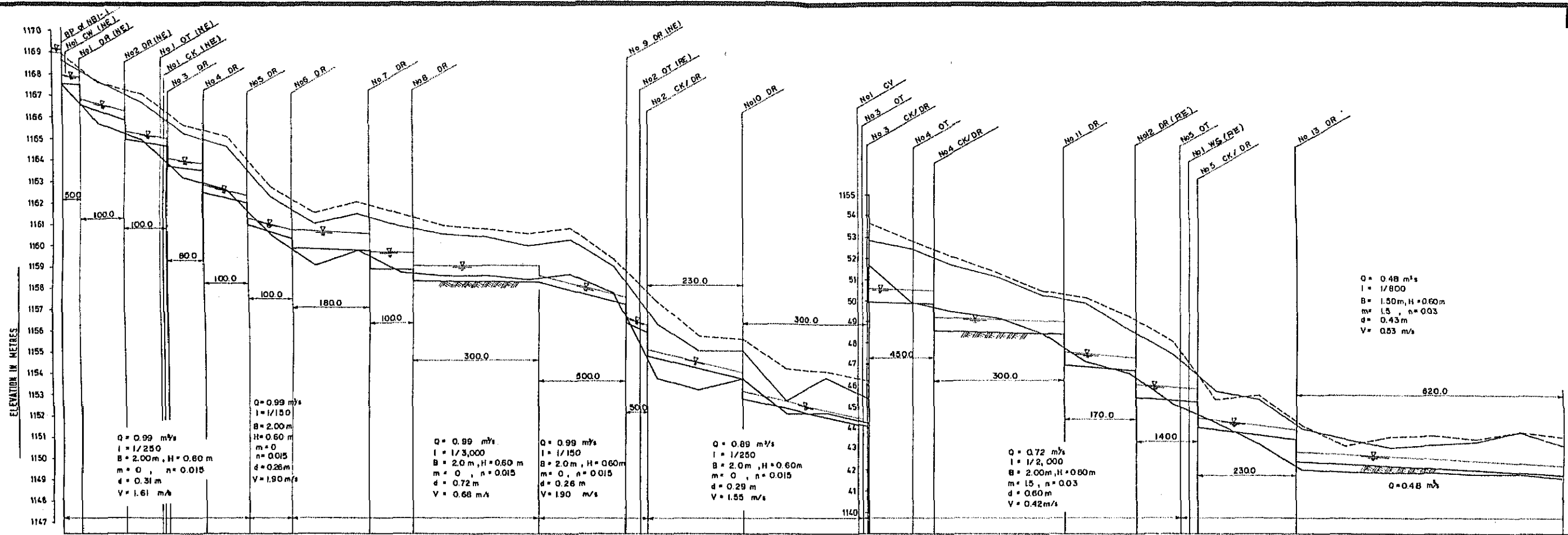




STATION No.	PROPOSED CONDITION			EXISTING CONDITION		
	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION
30	77.24	77.24	76.61	1178.33	1178.32	1176.94
31	76.51	76.25	75.61	77.06	77.13	75.74
32	76.25	75.98	75.35	76.85	76.85	75.44
33				76.64	76.66	75.33
34	73.94	73.56	74.94	75.63	75.64	74.24
35	73.16	72.88	74.26	75.41	75.41	74.03
36	74.16	73.88	73.26	73.89	73.89	72.54
37	73.76	73.48	72.86	73.68	73.67	72.24
38	73.26	72.98	72.36	73.27	73.18	72.03
39	72.96	72.68	72.06	72.22	72.23	70.95
40	72.36	72.08	71.46	72.05	72.02	70.77
41	71.80	71.52	70.90	71.83	71.84	70.58
42	70.50	70.22	69.60	70.63	70.58	69.16
43				70.34	70.33	68.93
44	70.04	69.76	69.14	69.07	69.08	67.81
45	68.64	68.36	68.74	69.41	68.89	67.51
EP	68.26	68.98	68.56	1168.98	1168.69	1167.52
						15.12

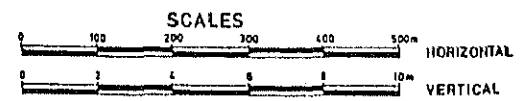


REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD  
 THE MWEA IRRIGATION  
 DEVELOPMENT PROJECT  
 TITLE OF DRAWING  
**PROFILE OF NYAMINDI MAIN CANAL-I (2/2)**  
 JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO JAPAN  
 DWG. No.  
 3002



Q = 0.48 m<sup>3</sup>/s  
 I = 1/800  
 B = 1.50 m, H = 0.60 m  
 m = 1.5, n = 0.03  
 d = 0.43 m  
 V = 0.53 m/s

STATION No.	PROPOSED CONDITION			EXISTING CONDITION			
	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION	DISTANCE
BP	68.37	68.08	67.77	1168.98	1168.69	1167.54	84.88
46	68.17	67.88	67.57	67.71	67.75	65.77	100.00
47	66.77	66.48	66.17	67.65	67.76	65.50	100.00
48	65.37	65.08	64.77	65.67	65.31	63.21	100.00
49	64.93	64.64	64.33	65.13	64.84	62.63	100.00
50	62.83	62.54	62.23	62.76	62.47	60.49	100.00
51	61.53	61.24	60.93	61.60	61.31	59.12	100.00
52	60.42	60.13	59.82	61.09	60.80	58.26	100.00
53	59.42	59.13	58.82	59.53	59.24	58.73	100.00
54	58.79	58.50	58.20	60.95	60.66	58.58	100.00
55	58.19	57.90	57.60	60.77	60.48	58.60	100.00
56	58.79	58.50	58.20	60.55	60.26	58.40	100.00
57	57.46	57.17	56.86	60.81	60.52	58.65	100.00
58	56.46	56.17	55.86	59.28	58.99	57.19	100.00
59	55.79	55.50	55.20	57.32	57.03	53.72	100.00
60	54.53	54.24	53.93	55.73	55.44	53.26	100.00
61	53.90	53.61	53.30	55.60	55.31	53.27	100.00
62	52.90	52.61	52.30	54.23	53.94	52.11	100.00
63	51.70	51.41	51.10	54.09	53.80	52.14	100.00
64	50.71	50.42	50.11	53.65	53.36	51.72	100.00
65	50.63	50.34	50.03	52.72	52.43	49.90	100.00
66	49.13	48.84	48.53	51.97	51.68	49.42	100.00
67	48.93	48.64	48.33	51.20	50.91	49.08	100.00
68	48.93	48.64	48.33	50.36	50.07	48.37	100.00
69	48.93	48.64	48.33	50.03	49.74	47.05	100.00
70	47.48	47.19	46.88	49.14	48.85	46.52	100.00
71	47.39	47.10	46.80	48.00	47.71	45.04	100.00
72	45.68	45.39	45.08	45.28	44.99	43.23	100.00
73	45.45	45.16	44.85	43.11	42.82	43.21	100.00
74	44.15	43.86	43.55	43.74	43.45	41.98	100.00
75	44.03	43.74	43.43	43.11	42.82	41.89	100.00
76	43.03	42.74	42.43	43.52	43.23	41.95	100.00
77	43.03	42.74	42.43	43.53	43.24	41.99	100.00
78	43.03	42.74	42.43	43.42	43.13	41.82	100.00
79	43.03	42.74	42.43	43.74	43.45	41.75	100.00
80	41.05	40.76	40.45	1143.52	1143.23	1141.59	100.00

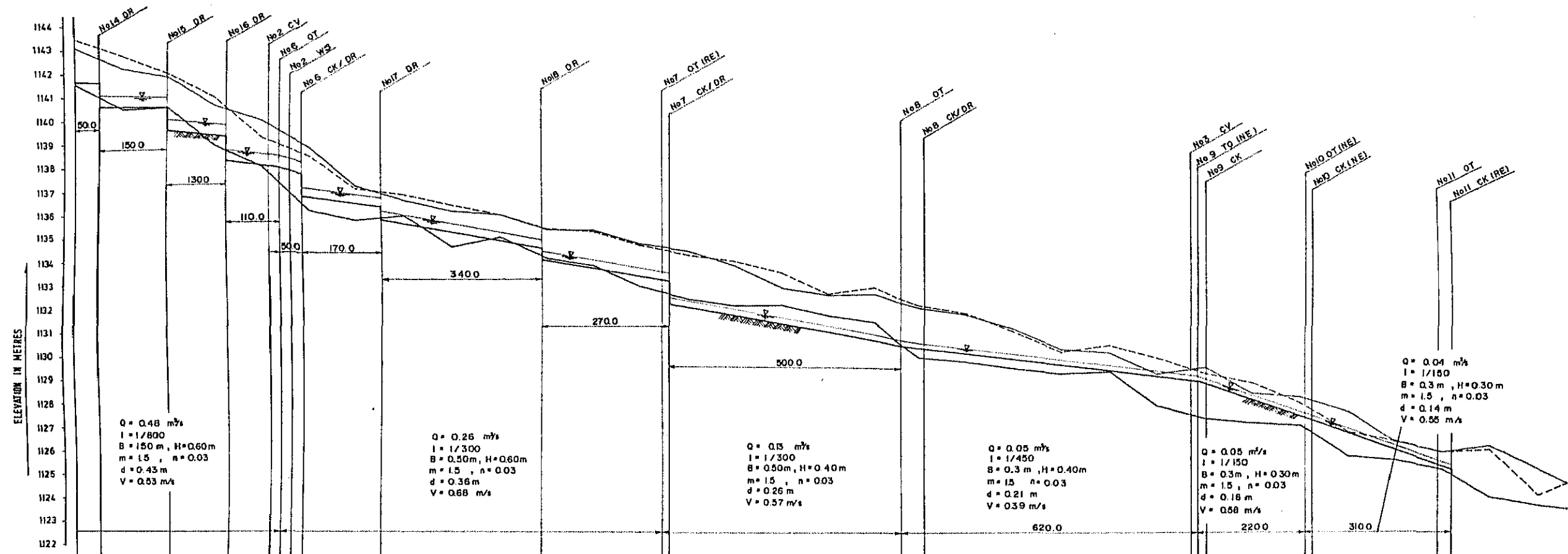


REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD  
 THE MWEA IRRIGATION  
 DEVELOPMENT PROJECT

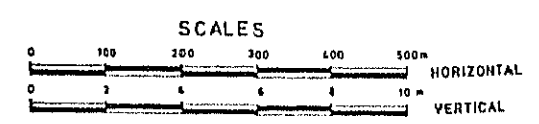
TITLE OF DRAWING  
**PROFILE OF NYAMINDI BRANCH CANAL-1 (1/2)**

JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO JAPAN

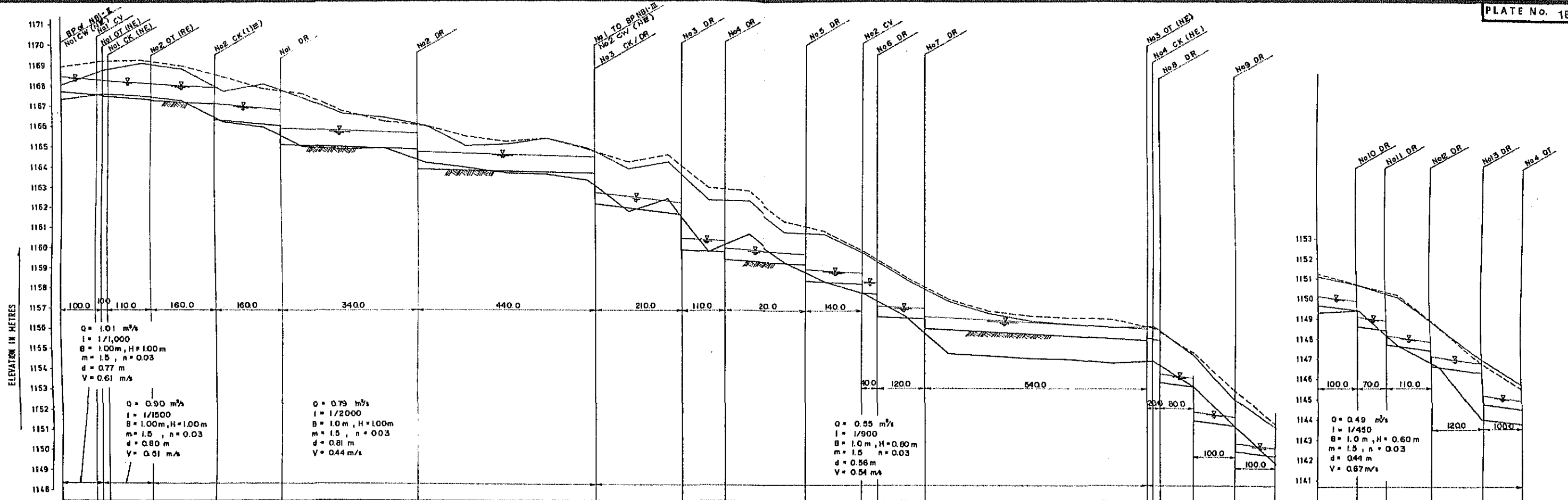
DWG. No.  
**3003**



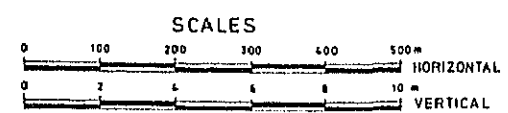
STATION No.	PROPOSED CONDITION				EXISTING CONDITION			
	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	DISTANCE	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION	REDUCED DISTANCE
80	1142.19	1142.08	1141.59	100.00	1143.52	1143.19	1141.58	8000.00
81	42.19	42.02	41.59	100.00	42.83	42.79	40.53	8100.00
82	41.19	41.02	40.59	100.00	42.03	41.94	40.65	8200.00
83	41.00	40.83	40.40	100.00	41.08	40.72	39.02	8300.00
84	39.84	39.67	39.24	100.00	39.31	40.04	38.02	8400.00
85	38.84	38.67	38.24	100.00	38.55	38.88	36.23	8500.00
86	38.60	38.43	38.00	100.00	37.15	37.24	35.80	8600.00
87	36.84	36.67	36.24	100.00	35.90	35.63	35.98	8700.00
88	35.84	35.67	35.24	100.00	35.07	36.06	34.69	8800.00
89	34.84	34.67	34.24	100.00	34.15	35.07	35.12	8900.00
90	33.84	33.67	33.24	100.00	33.46	34.74	34.20	9000.00
91	32.84	32.67	32.24	100.00	33.33	34.74	33.92	9100.00
92	31.84	31.67	31.24	100.00	32.35	33.74	33.02	9200.00
93	30.84	30.67	30.24	100.00	31.35	32.74	32.48	9300.00
94	29.84	29.67	29.24	100.00	30.35	31.74	32.18	9400.00
95	28.84	28.67	28.24	100.00	29.35	30.74	32.22	9500.00
96	27.84	27.67	27.24	100.00	28.35	29.74	31.83	9600.00
97	26.84	26.67	26.24	100.00	27.35	28.74	31.53	9700.00
98	25.84	25.67	25.24	100.00	26.35	27.74	30.06	9800.00
99	24.84	24.67	24.24	100.00	25.35	26.74	29.85	9900.00
100	23.84	23.67	23.24	100.00	24.35	25.74	29.54	10000.00
101	22.84	22.67	22.24	100.00	23.35	24.74	29.30	10100.00
102	21.84	21.67	21.24	100.00	22.35	23.74	29.41	10200.00
103	20.84	20.67	20.24	100.00	21.35	22.74	27.98	10300.00
104	19.84	19.67	19.24	100.00	20.35	21.74	27.45	10400.00
105	18.84	18.67	18.24	100.00	19.35	20.74	27.25	10500.00
106	17.84	17.67	17.24	100.00	18.35	19.74	27.15	10600.00
107	16.84	16.67	16.24	100.00	17.35	18.74	25.82	10700.00
108	15.84	15.67	15.24	100.00	16.35	17.74	25.69	10800.00
109	14.84	14.67	14.24	100.00	15.35	16.74	25.65	10900.00
110	13.84	13.67	13.24	100.00	14.35	15.74	25.33	11000.00
111	12.84	12.67	12.24	100.00	13.35	14.74	24.15	11100.00
EP	11.84	11.67	11.24	61.73	12.35	13.74	23.79	11161.73



REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD  
 THE MWEA IRRIGATION  
 DEVELOPMENT PROJECT  
 TITLE OF DRAWING  
**PROFILE OF NYAMINDI BRANCH CANAL-I (2/2)**  
 JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO JAPAN  
 DWG. No.  
 3004

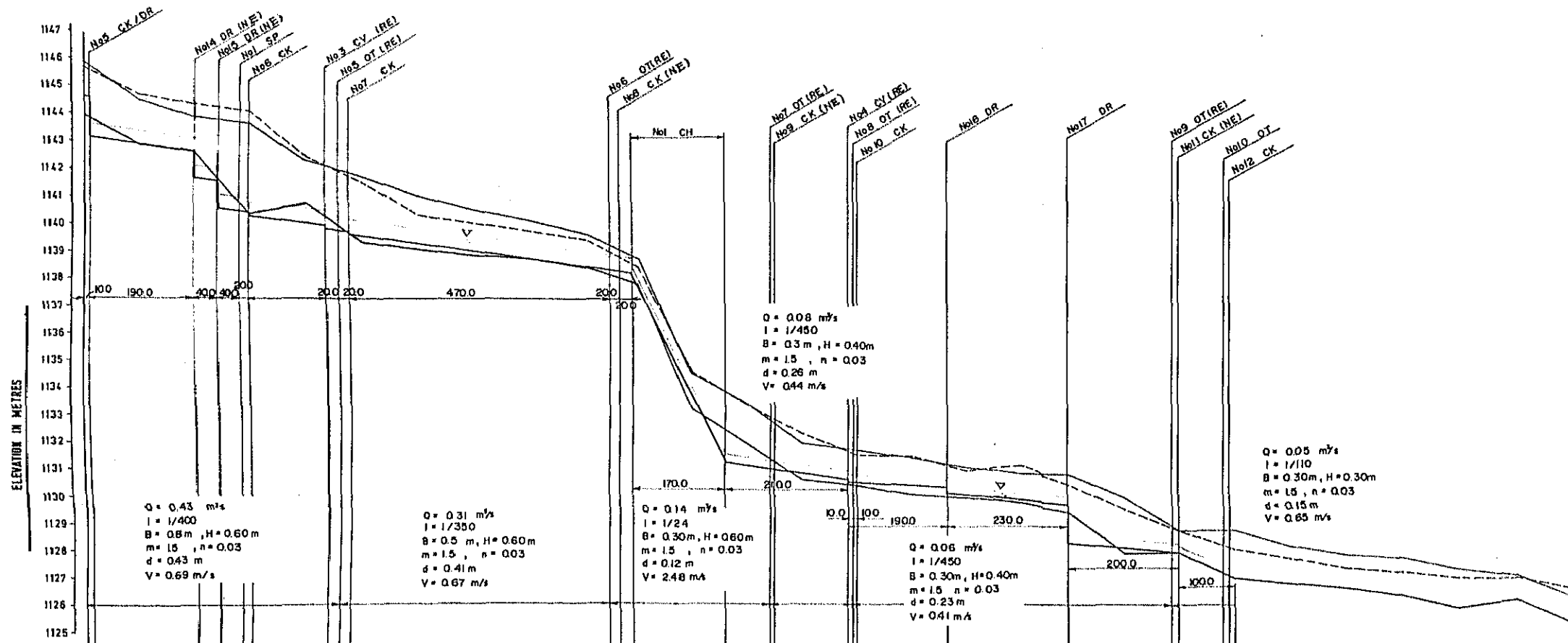


STATION No.	EXISTING CONDITION				PROPOSED CONDITION				
	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION	DISTANCE	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION	WATER SURFACE ELEVATION	EMBANKMENT ELEVATION
BP	1168.90	1167.35	1167.83	0.00	1168.00	1167.83	1168.00	1168.00	1168.83
1	69.24	67.62	67.32	100.00	69.24	67.62	67.32	68.98	68.98
2	69.27	67.47	67.24	200.00	69.27	67.47	67.24	68.15	68.15
3	68.95	67.24	67.24	300.00	68.95	67.24	67.24	70.30	70.30
4	68.39	66.14	66.22	400.00	68.39	66.14	66.22	68.15	68.34
5	67.82	65.93	65.93	500.00	67.82	65.93	65.93	65.93	65.93
6	67.55	64.96	64.96	600.00	67.55	64.96	64.96	65.78	65.78
7	66.67	64.78	64.78	700.00	66.67	64.78	64.78	64.68	64.68
8	66.20	64.91	64.91	800.00	66.20	64.91	64.91	64.97	64.97
9	65.95	64.16	63.67	900.00	65.95	64.16	63.67	62.71	62.71
10	65.44	63.92	63.92	1000.00	65.44	63.92	63.92	62.48	62.48
11	65.19	63.64	63.64	1100.00	65.19	63.64	63.64	60.68	60.68
12	65.38	63.60	63.60	1200.00	65.38	63.60	63.60	60.80	60.80
13	64.83	63.33	63.33	1300.00	64.83	63.33	63.33	60.16	60.16
14	64.18	61.75	61.75	1400.00	64.18	61.75	61.75	59.93	59.93
15	64.56	62.38	62.38	1500.00	64.56	62.38	62.38	59.03	59.03
16	62.88	59.76	59.76	1600.00	62.88	59.76	59.76	58.17	58.17
17	62.79	60.66	60.66	1700.00	62.79	60.66	60.66	58.61	58.61
18	61.29	58.25	58.25	1800.00	61.29	58.25	58.25	58.34	58.34
19	60.81	58.32	58.32	1900.00	60.81	58.32	58.32	57.72	57.72
20	58.80	57.72	57.72	2000.00	58.80	57.72	57.72	56.55	56.55
21	58.53	56.55	56.55	2100.00	58.53	56.55	56.55	54.73	54.73
22	56.83	54.73	54.73	2200.00	56.83	54.73	54.73	54.59	54.59
23	56.44	54.59	54.59	2300.00	56.44	54.59	54.59	54.47	54.47
24	56.47	54.44	54.44	2400.00	56.47	54.44	54.44	52.96	52.96
25	56.47	54.44	54.44	2500.00	56.47	54.44	54.44	51.12	51.12
26	56.44	54.28	54.28	2600.00	56.44	54.28	54.28	50.09	50.09
27	56.01	54.38	54.38	2700.00	56.01	54.38	54.38	50.25	50.25
28	54.81	53.13	53.13	2800.00	54.81	53.13	53.13	50.09	50.09
29	52.96	51.12	51.12	2900.00	52.96	51.12	51.12	50.09	50.09
30	51.25	51.12	51.12	3000.00	51.25	51.12	51.12	50.09	50.09
31	50.71	49.43	49.43	3100.00	50.71	49.43	49.43	48.89	48.89
32	50.24	47.67	47.67	3200.00	50.24	47.67	47.67	48.05	48.05
33	48.69	46.65	46.65	3300.00	48.69	46.65	46.65	46.82	46.82
34	46.83	44.70	44.70	3400.00	46.83	44.70	44.70	45.22	45.22
35	45.58	44.57	44.57	3500.00	45.58	44.57	44.57	45.00	45.00

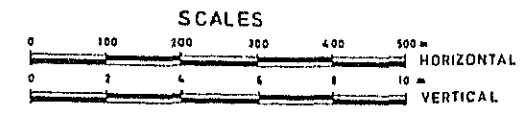


REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD  
 THE MWEA IRRIGATION  
 DEVELOPMENT PROJECT  
 TITLE OF DRAWING  
**PROFILE OF NYAMINDI BRANCH CANAL-II (1/2)**  
 JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO JAPAN  
 DWG. No.  
**3005**





STATION No.	PROPOSED CONDITION				EXISTING CONDITION			
	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION	DISTANCE	REDUCED DISTANCE
35	1145.17	1145.00	1144.97	1145.58	1145.79	1143.86	100.00	3500.00
36	1144.74	1144.57	1144.54	1145.58	1145.79	1143.86	100.00	3600.00
37	1144.58	1144.41	1144.38	1145.58	1145.79	1143.86	100.00	3700.00
38	1144.42	1144.25	1144.22	1145.58	1145.79	1143.86	100.00	3800.00
39	1144.26	1144.09	1144.06	1145.58	1145.79	1143.86	100.00	3900.00
40	1144.10	1143.93	1143.90	1145.58	1145.79	1143.86	100.00	4000.00
41	1143.94	1143.77	1143.74	1145.58	1145.79	1143.86	100.00	4100.00
42	1143.78	1143.61	1143.58	1145.58	1145.79	1143.86	100.00	4200.00
43	1143.62	1143.45	1143.42	1145.58	1145.79	1143.86	100.00	4300.00
44	1143.46	1143.29	1143.26	1145.58	1145.79	1143.86	100.00	4400.00
45	1143.30	1143.13	1143.10	1145.58	1145.79	1143.86	100.00	4500.00
46	1143.14	1142.97	1142.94	1145.58	1145.79	1143.86	100.00	4600.00
47	1142.98	1142.81	1142.78	1145.58	1145.79	1143.86	100.00	4700.00
48	1142.82	1142.65	1142.62	1145.58	1145.79	1143.86	100.00	4800.00
49	1142.66	1142.49	1142.46	1145.58	1145.79	1143.86	100.00	4900.00
50	1142.50	1142.33	1142.30	1145.58	1145.79	1143.86	100.00	5000.00
51	1142.34	1142.17	1142.14	1145.58	1145.79	1143.86	100.00	5100.00
52	1142.18	1142.01	1141.98	1145.58	1145.79	1143.86	100.00	5200.00
53	1142.02	1141.85	1141.82	1145.58	1145.79	1143.86	100.00	5300.00
54	1141.86	1141.69	1141.66	1145.58	1145.79	1143.86	100.00	5400.00
55	1141.70	1141.53	1141.50	1145.58	1145.79	1143.86	100.00	5500.00
56	1141.54	1141.37	1141.34	1145.58	1145.79	1143.86	100.00	5600.00
57	1141.38	1141.21	1141.18	1145.58	1145.79	1143.86	100.00	5700.00
58	1141.22	1141.05	1141.02	1145.58	1145.79	1143.86	100.00	5800.00
59	1141.06	1140.89	1140.86	1145.58	1145.79	1143.86	100.00	5900.00
60	1140.90	1140.73	1140.70	1145.58	1145.79	1143.86	100.00	6000.00
61	1140.74	1140.57	1140.54	1145.58	1145.79	1143.86	100.00	6100.00
62	1140.58	1140.41	1140.38	1145.58	1145.79	1143.86	100.00	6200.00
62 E.P.	1140.42	1140.25	1140.22	1145.58	1145.79	1143.86	22.96	



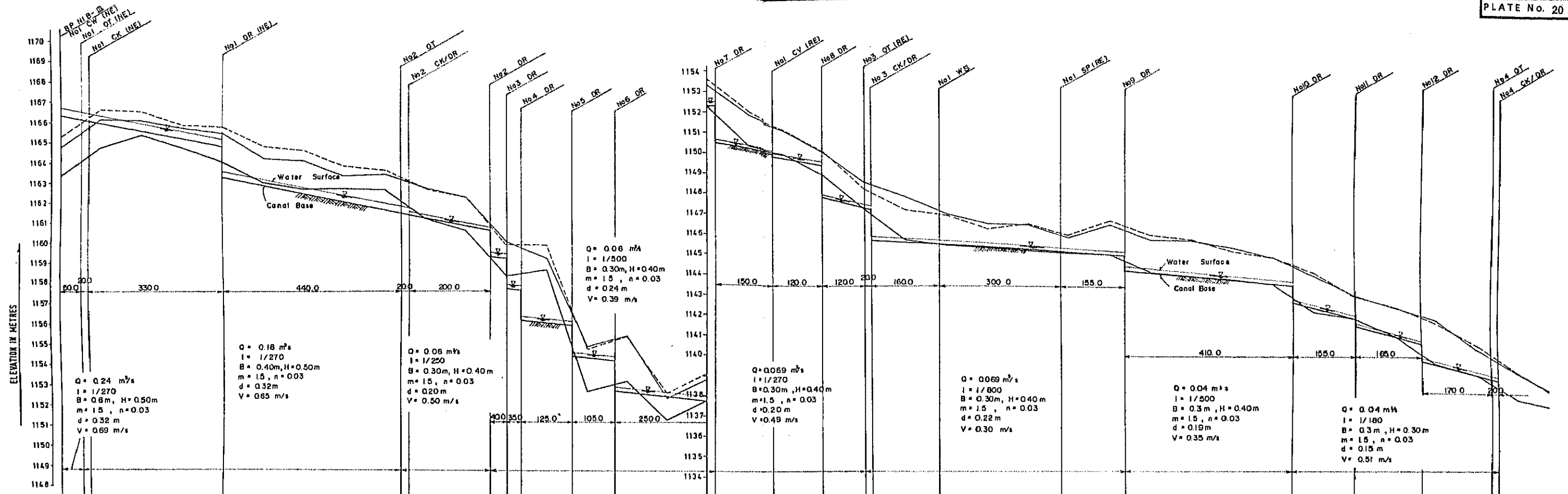
REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD

THE MWEA IRRIGATION  
 DEVELOPMENT PROJECT

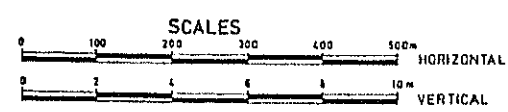
TITLE OF DRAWING  
 PROFILE OF NYAMINDI BRANCH CANAL-II (2/2)

JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO JAPAN

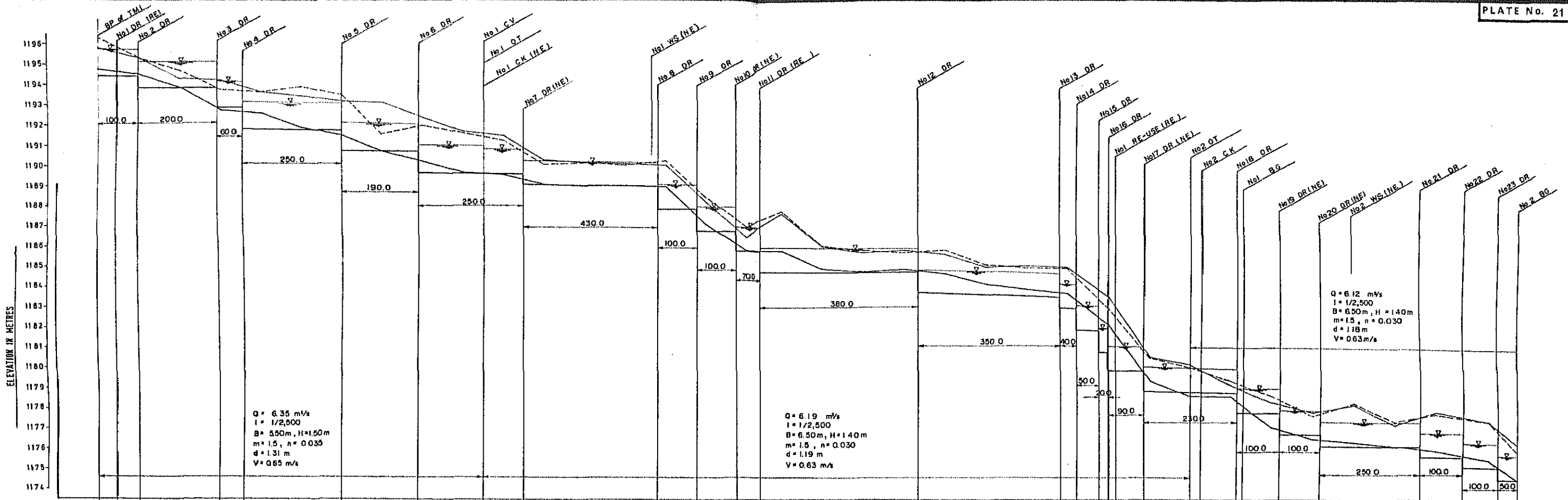
DWG. No.  
 3008



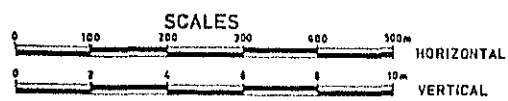
STATION No.	PROPOSED CONDITION			EXISTING CONDITION		
	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION
BP	1163.55	1166.37	1166.05	1163.50	1164.71	1163.50
1	65.96 65.79 65.24	66.18 66.06 65.56	65.96 65.79 65.24	66.04	66.04	64.65
2				66.42	66.02	65.28
3				65.63	65.68	64.63
4				65.67	65.28	63.89
5				64.63	64.12	62.88
6				64.50	64.04	62.60
7				63.71	63.23	62.57
8				63.52	63.34	62.59
9				62.65	62.69	61.17
10				62.26	62.28	60.64
11				59.94	59.94	58.37
12				59.91	59.25	58.70
13				54.77	54.88	52.87
14				55.38	55.44	53.19
15				52.59	52.35	51.25
16				53.57	53.28	52.26
17				51.99	51.85	50.31
18				51.16	51.12	49.94
19				50.07	50.02	48.86
20				48.21	48.21	47.24
21				47.20	47.86	45.71
22				46.89	46.94	45.39
23				46.19	46.44	45.28
24				46.45	46.40	45.09
25				45.89	45.77	45.02
26				45.60	45.40	44.95
27				45.87	45.84	44.04
28				45.63	45.59	43.85
29				45.08	45.24	43.71
30				44.81	44.80	43.44
31				44.07	43.92	42.07
32				42.91	42.96	41.78
33				42.37	42.34	40.93
34				41.80	41.74	39.53
35				40.49	40.28	38.97
36				39.16	39.13	37.77
EP				1138.20	1138.25	1137.43



REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD  
 THE MWEA IRRIGATION  
 DEVELOPMENT PROJECT  
 TITLE OF DRAWING  
**PROFILE OF NYAMINDI BRANCH CANAL-III**  
 JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO JAPAN  
 DWG. No.  
**3007**



STATION No.	EXISTING CONDITION		PROPOSED CONDITION	
	DISTANCE	REDUCED DISTANCE	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION
BP				
35	3500.00	3500.00	1194.39	1195.70
36	3600.00	3600.00	1194.35	1195.65
37	3700.00	3700.00	1194.69	1195.99
38	3800.00	3800.00	1193.61	1194.31
39	3900.00	3900.00	1192.61	1193.43
40	4000.00	4000.00	1192.79	1193.40
41	4100.00	4100.00	1191.79	1192.39
42	4200.00	4200.00	1191.69	1192.29
43	4300.00	4300.00	1190.69	1191.29
44	4400.00	4400.00	1190.69	1191.29
45	4500.00	4500.00	1189.61	1190.21
46	4600.00	4600.00	1189.61	1190.21
47	4700.00	4700.00	1188.51	1189.11
48	4800.00	4800.00	1188.51	1189.11
49	4900.00	4900.00	1187.41	1188.01
50	5000.00	5000.00	1187.41	1188.01
51	5100.00	5100.00	1186.31	1186.91
52	5200.00	5200.00	1186.31	1186.91
53	5300.00	5300.00	1185.21	1185.81
54	5400.00	5400.00	1185.21	1185.81
55	5500.00	5500.00	1184.11	1184.71
56	5600.00	5600.00	1184.11	1184.71
57	5700.00	5700.00	1183.01	1183.61
58	5800.00	5800.00	1183.01	1183.61
59	5900.00	5900.00	1181.91	1182.51
60	6000.00	6000.00	1181.91	1182.51
61	6100.00	6100.00	1180.81	1181.41
62	6200.00	6200.00	1180.81	1181.41
63	6300.00	6300.00	1179.71	1180.31
64	6400.00	6400.00	1179.71	1180.31
65	6500.00	6500.00	1178.61	1179.21
66	6600.00	6600.00	1178.61	1179.21
67	6700.00	6700.00	1177.51	1178.11
68	6800.00	6800.00	1177.51	1178.11
69	6925.40	6925.40	1176.41	1177.01
70	7000.00	7000.00	1176.41	1177.01

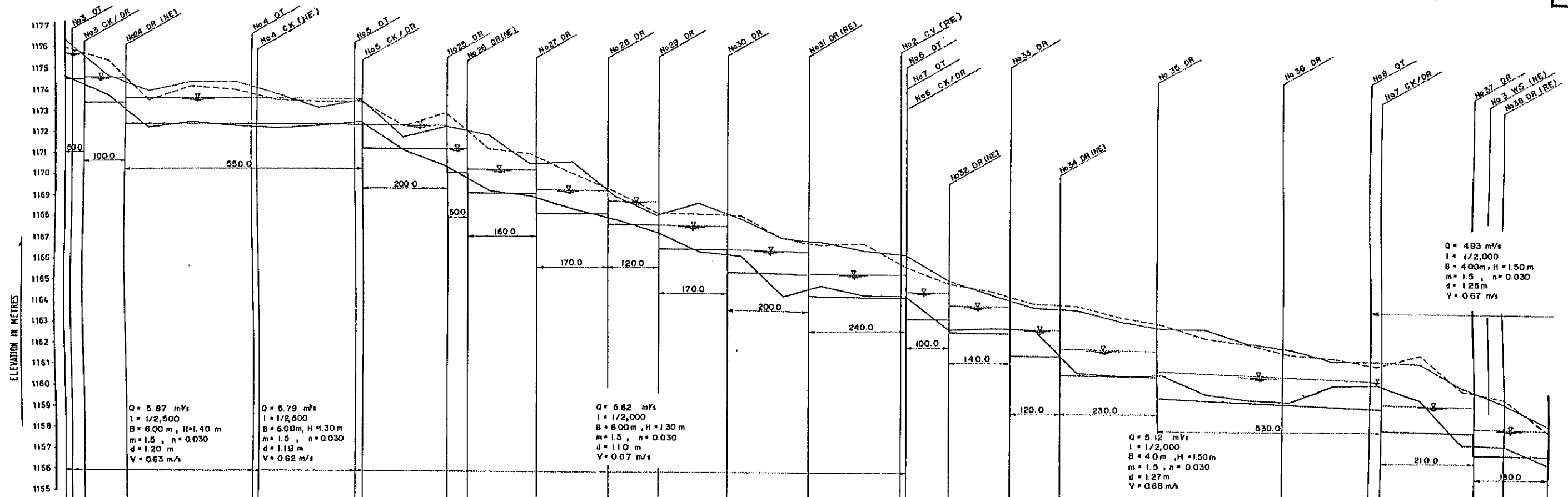


REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD  
 THE MWEA IRRIGATION  
 DEVELOPMENT PROJECT

TITLE OF DRAWING  
**PROFILE OF THIBA MAIN CANAL-I (1/3)**

JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO JAPAN

DWG. No.  
**3008**



Q = 4.93 m³/s  
 L = 1/2,000  
 B = 4.00m, H = 1.50 m  
 m = 1.5, n = 0.030  
 d = 1.25 m  
 V = 0.67 m/s

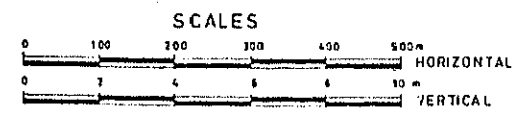
Q = 5.87 m³/s  
 L = 1/2,500  
 B = 6.00 m, H = 1.40 m  
 m = 1.5, n = 0.030  
 d = 1.20 m  
 V = 0.63 m/s

Q = 5.79 m³/s  
 L = 1/2,500  
 B = 6.00 m, H = 1.30 m  
 m = 1.5, n = 0.030  
 d = 1.19 m  
 V = 0.62 m/s

Q = 5.62 m³/s  
 L = 1/2,000  
 B = 6.00 m, H = 1.30 m  
 m = 1.5, n = 0.030  
 d = 1.10 m  
 V = 0.67 m/s

Q = 5.12 m³/s  
 L = 1/2,000  
 B = 4.0 m, H = 1.50 m  
 m = 1.5, n = 0.030  
 d = 1.27 m  
 V = 0.68 m/s

STATION No.	EXISTING CONDITION				PROPOSED CONDITION			
	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BASE ELEVATION	DISTANCE	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	DISTANCE
70	1175.87	1176.26	1174.53	100.00	1175.90	1175.70	1174.50	100.00
71	75.30	74.50	73.71	100.00	74.86	74.75	73.50	100.00
72	73.44	73.89	72.15	100.00	74.86	74.66	73.46	100.00
73	74.09	74.26	72.40	100.00	73.86	73.66	72.46	100.00
74	73.92	74.30	72.18	100.00	73.86	73.66	72.46	100.00
75	73.42	73.71	72.04	100.00	73.86	73.66	72.46	100.00
76	73.53	73.33	72.20	100.00	73.86	73.66	72.46	100.00
77	73.31	73.37	72.37	100.00	73.86	73.66	72.46	100.00
78	72.18	71.61	71.05	100.00	73.86	73.66	72.46	100.00
79	72.82	72.15	70.29	100.00	73.86	73.66	72.46	100.00
80	71.10	71.73	69.16	100.00	73.86	73.66	72.46	100.00
81	70.87	70.42	68.91	100.00	73.86	73.66	72.46	100.00
82	69.93	70.52	68.28	100.00	73.86	73.66	72.46	100.00
83	68.10	68.90	67.78	100.00	73.86	73.66	72.46	100.00
84	68.04	68.01	67.20	100.00	73.86	73.66	72.46	100.00
85	67.98	68.60	66.28	100.00	73.86	73.66	72.46	100.00
86	66.95	67.85	66.10	100.00	73.86	73.66	72.46	100.00
87	66.95	66.99	64.23	100.00	73.86	73.66	72.46	100.00
88	66.75	66.70	64.80	100.00	73.86	73.66	72.46	100.00
89	66.75	66.35	64.28	100.00	73.86	73.66	72.46	100.00
90	65.53	65.22	64.24	100.00	73.86	73.66	72.46	100.00
91	64.45	64.84	62.64	100.00	73.86	73.66	72.46	100.00
92	64.45	64.30	62.75	100.00	73.86	73.66	72.46	100.00
93	63.90	63.70	62.59	100.00	73.86	73.66	72.46	100.00
94	63.81	63.61	60.64	100.00	73.86	73.66	72.46	100.00
95	63.30	63.09	60.50	100.00	73.86	73.66	72.46	100.00
96	62.53	62.53	60.56	100.00	73.86	73.66	72.46	100.00
97	62.31	62.72	59.56	100.00	73.86	73.66	72.46	100.00
98	62.04	62.08	59.41	100.00	73.86	73.66	72.46	100.00
99	61.56	61.03	59.29	100.00	73.86	73.66	72.46	100.00
100	61.40	61.26	60.12	100.00	73.86	73.66	72.46	100.00
101	61.01	61.25	60.13	100.00	73.86	73.66	72.46	100.00
102	61.51	61.15	55.44	100.00	73.86	73.66	72.46	100.00
103	59.88	60.03	57.35	100.00	73.86	73.66	72.46	100.00
104	59.47	59.26	57.28	100.00	73.86	73.66	72.46	100.00
105	57.95	57.95	55.46	100.00	73.86	73.66	72.46	100.00



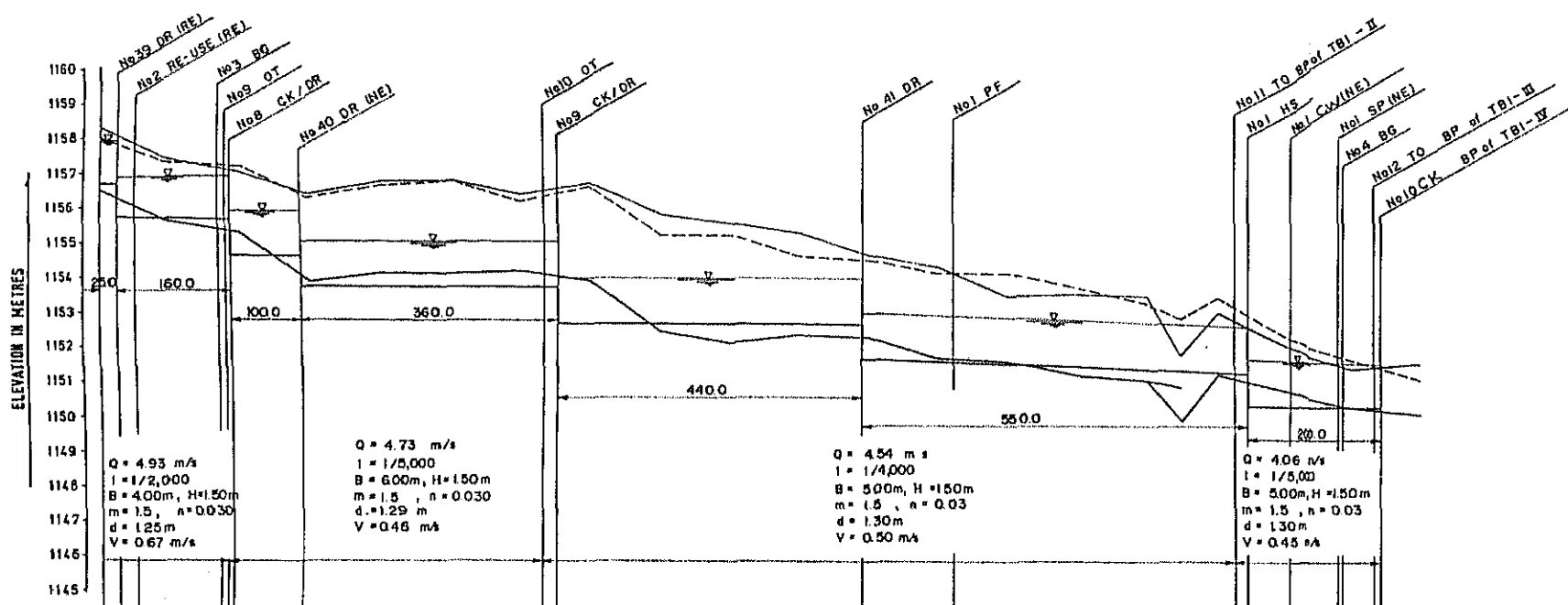
REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD

THE MWEA IRRIGATION  
 DEVELOPMENT PROJECT

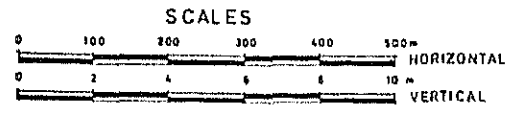
TITLE OF DRAWING  
**PROFILE OF THIBA MAIN CANAL-I (2/3)**

JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO JAPAN

DWG. No.  
**3009**



EXISTING CONDITION	PROPOSED CONDITION		DISTANCE	REDUCED DISTANCE	STATION No.	CURVE
	EMBANKMENT ELEVATION	WATER SURFACE ELEVATION				
RIGHT BANK ELEVATION	1157.95	1156.10	100.00	10500.00	105	
LEFT BANK ELEVATION	1158.25	1157.10	100.00	10600.00	106	
CANAL BASE ELEVATION	1156.46	1155.85	100.00	10700.00	107	
			100.00	10800.00	108	
			100.00	10900.00	109	
			100.00	11000.00	110	
			100.00	11100.00	111	
			100.00	11200.00	112	
			100.00	11300.00	113	
			100.00	11400.00	114	
			100.00	11500.00	115	
			100.00	11600.00	116	
			100.00	11700.00	117	
			100.00	11800.00	118	
			100.00	11900.00	119	
			100.00	12000.00	120	
			99.00	12049.90	EP	
			51.10	12100.00	121	
			100.00	12200.00	122	
			100.00	12300.00	123	
			100.00	12400.00	124	
			100.00	12500.00	125	
			100.00	12600.00	126	
			100.00	12700.00	127	
			100.00	12800.00	128	
			100.00	12900.00	129	



REPUBLIC OF KENYA  
 NATIONAL IRRIGATION BOARD  
 THE MWEA IRRIGATION DEVELOPMENT PROJECT  
 TITLE OF DRAWING  
**PROFILE OF THIBA MAIN CANAL-I (3/3)**  
 JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN  
 DWG. No. 3010