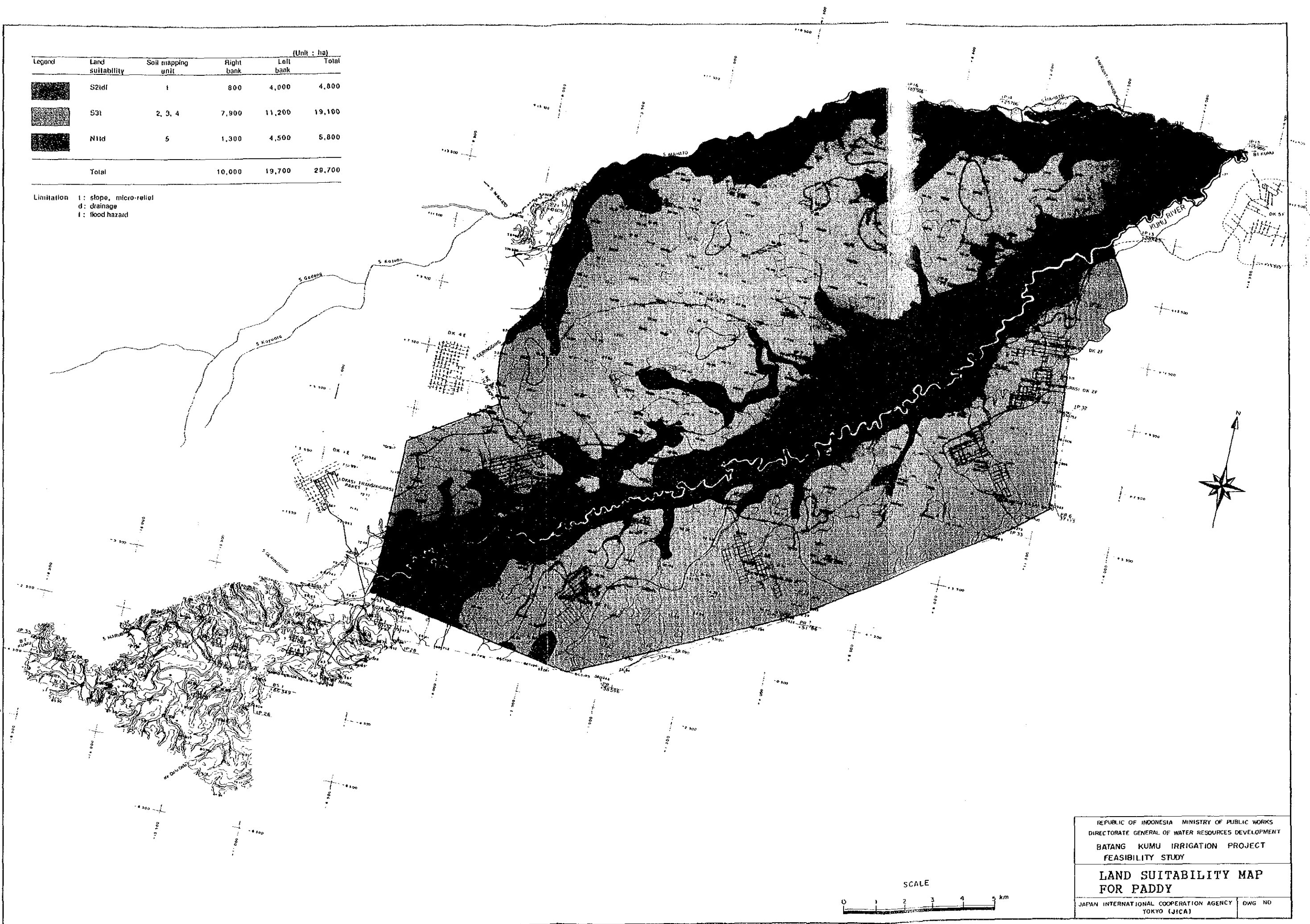


Legend	Land suitability	Soil mapping unit	(Unit : ha)		
			Right bank	Left bank	Total
	S2ldf	1	800	4,000	4,800
	S3l	2, 3, 4	7,900	11,200	19,100
	N1ld	5	1,300	4,500	5,800
Total			10,000	19,700	29,700

Limitation  
 l: slope, micro-relief  
 d: drainage  
 f: flood hazard



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**LAND SUITABILITY MAP  
 FOR PADDY**

JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO (JICA)      DWG NO

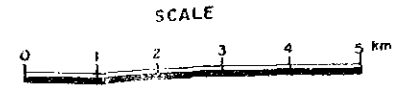
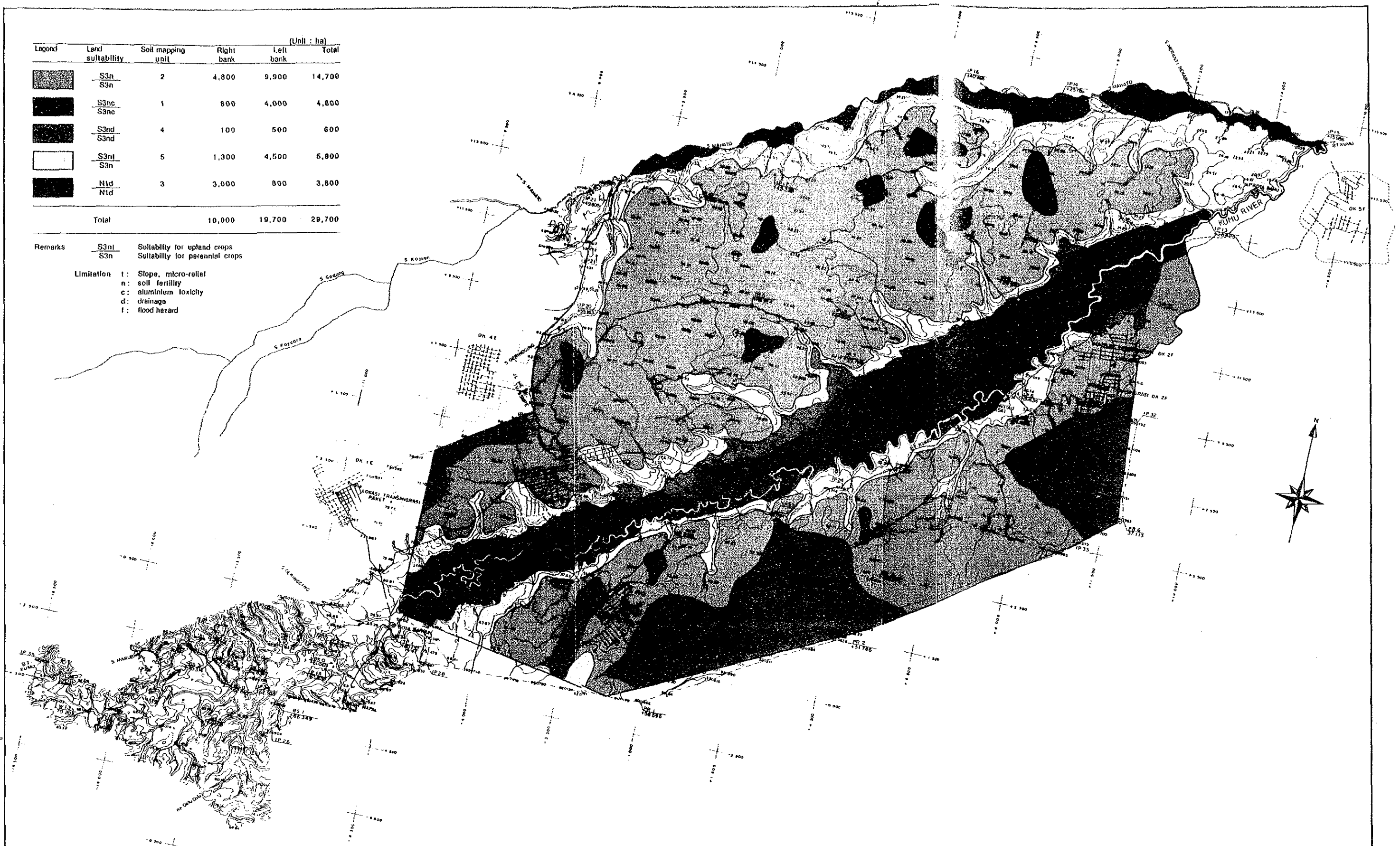
SCALE



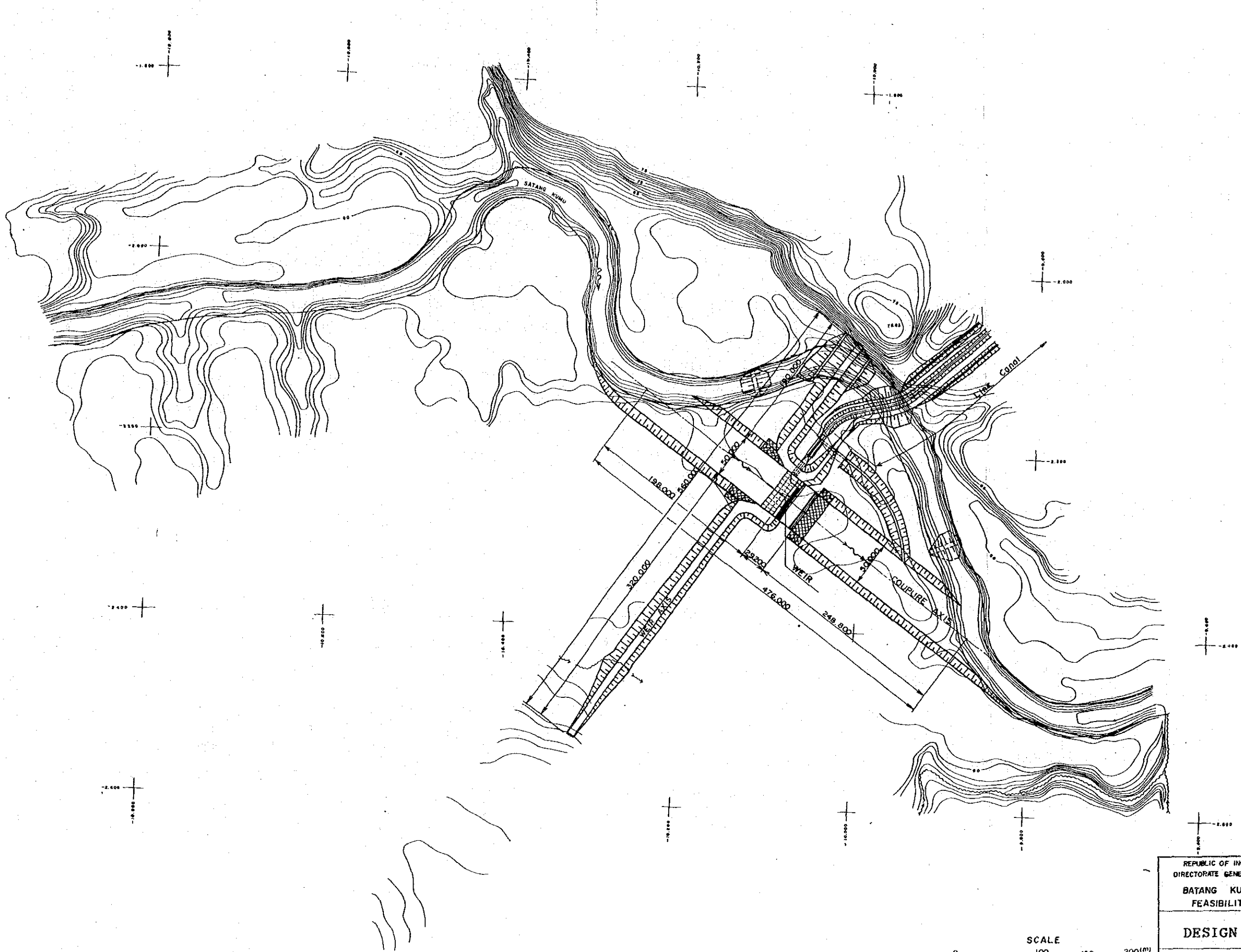
Legend	Land suitability	Soil mapping unit	(Unit : ha)		
			Right bank	Left bank	Total
	S3n S3n	2	4,800	9,900	14,700
	S3nc S3nc	1	800	4,000	4,800
	S3nd S3nd	4	100	500	600
	S3nl S3n	5	1,300	4,500	5,800
	N1d N1d	3	3,000	800	3,800
Total			10,000	19,700	29,700

Remarks S3nl Suitability for upland crops  
S3n Suitability for perennial crops

Limitation 1: Slope, micro-relief  
n: soil fertility  
c: aluminum toxicity  
d: drainage  
f: flood hazard



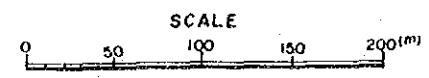
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DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
BATANG KUMU IRRIGATION PROJECT  
FEASIBILITY STUDY  
**LAND SUITABILITY MAP FOR  
UPLAND AND PERENNIAL CROPS**  
JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. NO.  
TOKYO (JICA)



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 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 BATANG KUMU IRRIGATION PROJECT  
 FEASIBILITY STUDY

**DESIGN OF WEIR (1/5)**

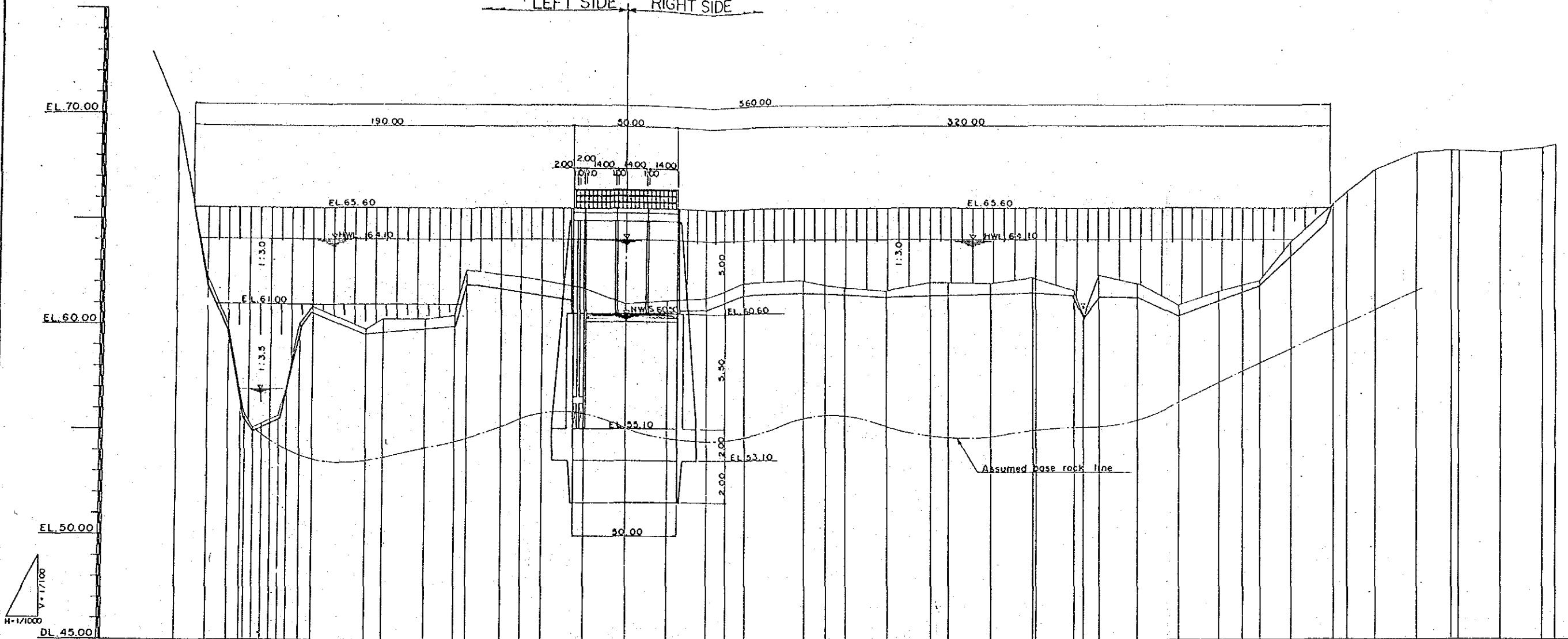
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | DWG. NO. TOKYO (JICA)



PROFILE OF WEIR AXIS

SCALE: H = 1/1000, V = 1/100

LEFT SIDE RIGHT SIDE



STATION	DISTANCE	TOTAL DISTANCE	EXISTING GROUND HEIGHT	DESIGN	
				CANAL BED EL	TOP EL
-15.0	15.0	215.0	70.05	65.60	65.60
-10.0	10.0	200.0	62.30	65.60	65.60
-40.0	6.0	190.0	60.02	65.60	65.60
-35.0	2.0	184.0	56.84	65.60	65.60
-30.0	4.0	176.0	53.72	65.60	65.60
-25.0	4.0	174.0	55.31	65.60	65.60
-20.0	4.0	170.0	55.51	65.60	65.60
-16.0	4.0	166.0	55.83	65.60	65.60
-12.0	6.0	162.0	57.10	65.60	65.60
-6.0	6.0	156.0	60.13	65.60	65.60
+0.3	25.5	150.0	60.91	65.60	65.60
+24.5	6.0	124.5	59.81	65.60	65.60
+16.5	16.5	116.5	60.32	65.60	65.60
+10.2	3.5	100.0	60.32	65.60	65.60
+6.5	14.1	96.3	60.32	65.60	65.60
+32.4	5.9	82.4	60.47	65.60	65.60
+26.5	16.5	76.5	62.85	65.60	65.60
+10.0	10.0	60.0	62.41	65.60	65.60
+10.1	10.0	50.0	62.28	65.60	65.60
+4.0	20.0	40.0	62.15	65.60	65.60
-20.0	20.0	20.0	61.79	65.60	65.60
+10.0	0.0	0.0	61.04	65.60	65.60
+20.0	20.0	20.0	61.22	65.60	65.60
+40.0	20.0	40.0	61.37	65.60	65.60
+10.1	10.0	50.0	61.71	65.60	65.60
+9.5	9.5	59.5	62.04	65.60	65.60
+39.5	30.0	89.5	62.14	65.60	65.60
+10.2	10.5	100.0	61.95	65.60	65.60
+9.5	9.5	109.5	61.78	65.60	65.60
+29.5	20.0	129.5	61.85	65.60	65.60
+10.3	20.5	150.0	62.03	65.60	65.60
+6.6	8.6	158.6	62.04	65.60	65.60
+28.6	20.0	170.0	62.01	65.60	65.60
+10.4	20.4	198.6	62.19	65.60	65.60
+18.5	18.5	218.5	61.71	65.60	65.60
+23.1	4.6	223.1	60.42	65.60	65.60
+30.4	7.3	230.4	62.38	65.60	65.60
+18.5	18.5	248.5	62.02	65.60	65.60
+18.5	18.5	268.5	60.93	65.60	65.60
+38.5	20.0	288.5	61.80	65.60	65.60
+10.6	11.5	300.0	61.89	65.60	65.60
+8.5	8.5	308.5	62.11	65.60	65.60
+23.5	15.0	323.5	64.01	65.60	65.60
+43.5	20.0	343.5	65.80	65.60	65.60
+10.7	6.5	350.0	66.33	65.60	65.60
+13.5	13.5	363.5	67.44	65.60	65.60
+33.5	20.0	383.5	88.26	65.60	65.60
+10.8	16.5	400.0	68.34	65.60	65.60
+3.5	3.5	403.5	68.36	65.60	65.60
+22.5	20.0	423.5	68.29	65.60	65.60
+43.5	20.0	443.5	68.51	65.60	65.60
+10.9	6.5	450.0	68.63	65.60	65.60

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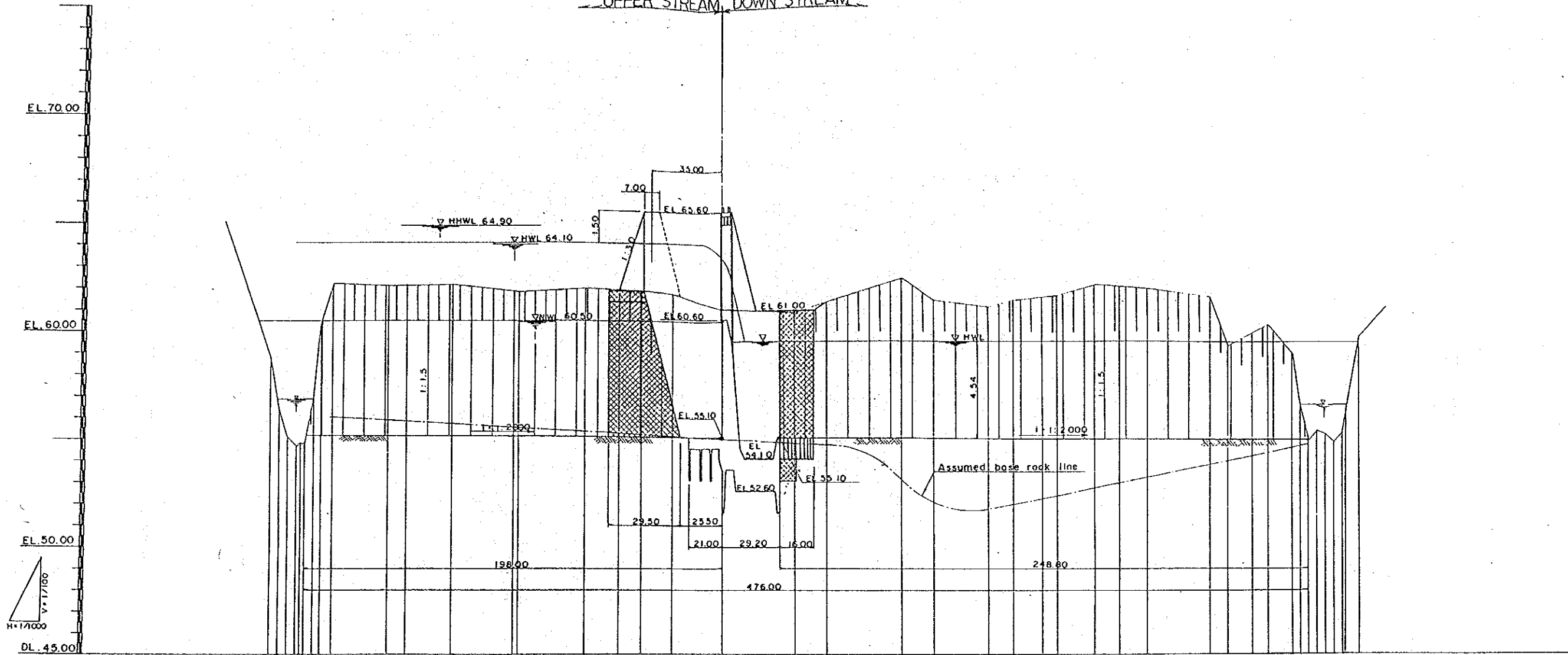
**DESIGN OF WEIR (2/5)**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DWG. NO

PROFILE OF COUPURE AXIS

UPPER STREAM DOWN STREAM

SCALE: H=1/1000, V=1/100



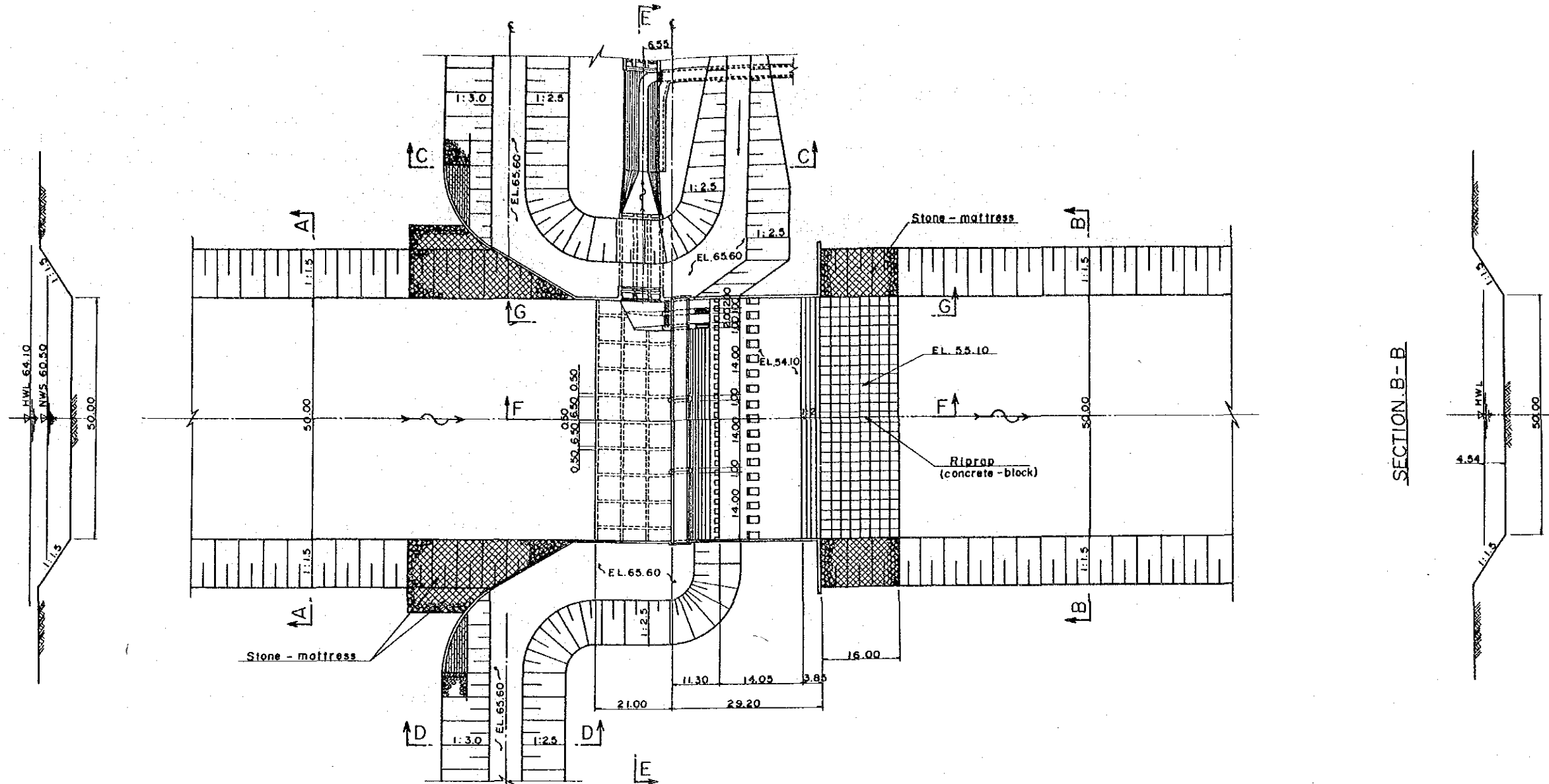
	DESIGN		EXISTING	TOTAL DISTANCE	DISTANCE	STATION
	TOP. EL.	CANAL BED. EL.				
		55.20				
		55.20				
		55.19				
			58.76	4.0	214.1	-14.1
			56.51	4.0	210.1	-10.1
			55.15	4.0	206.1	-6.1
			55.15	2.0	204.1	-4.1
			55.15	1.0	203.1	-3.1
			55.15	2.5	205.6	-4.6
			62.22	26.5	183.1	-35.1
			62.07	8.6	156.6	-8.6
			62.09	21.4	130.0	-40.3
			62.13	28.6	128.6	-28.6
			61.87	31.6	100.0	-48.2
			62.00	16.0	66.0	-16.0
			61.95	10.5	50.0	-10.5
			61.92	14.3	35.5	-39.5
			61.74	25.0	25.0	-25.0
			61.04	0.0	0.0	+40.0
			60.92	35.0	35.0	+35.0
			61.38	15.0	50.0	+40.1
			62.43	35.0	85.0	+35.0
			61.46	15.0	100.0	+40.2
			61.16	25.0	125.0	+25.0
			61.46	11.8	136.8	+36.8
			61.60	13.2	150.0	+40.3
			61.67	6.8	156.8	+6.8
			62.17	16.4	175.2	+25.2
			62.09	12.0	187.2	+37.2
			61.94	12.6	200.0	+40.4
			61.61	30.2	230.2	+30.2
			59.35	8.5	238.7	+38.7
			59.95	11.3	250.0	+40.5
			60.35	7.7	257.7	+40.7
			58.93	11.4	269.1	+40.2
			56.61	3.0	272.1	+26.6
			55.04	4.0	276.1	+30.6
			55.04	4.0	280.1	+30.6
			55.26	4.0	284.1	+30.6
			55.56	4.0	288.1	+30.6
			55.87	1.0	289.1	+25.6
			59.80	6.4	300.0	+40.6

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 BATANG KUMU IRRIGATION PROJECT  
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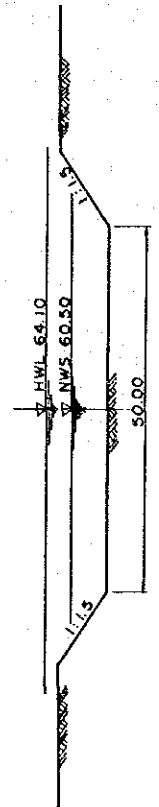
DESIGN OF WEIR (3/5)

JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA) DWG. NO.

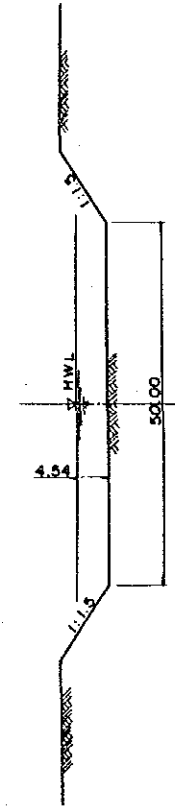
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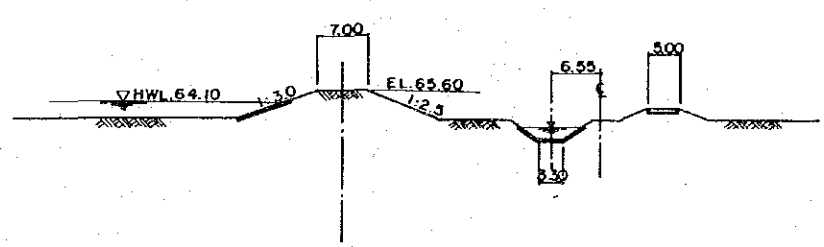
SECTION A-A



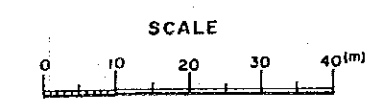
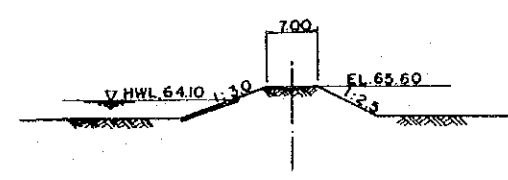
SECTION B-B



SECTION C-C

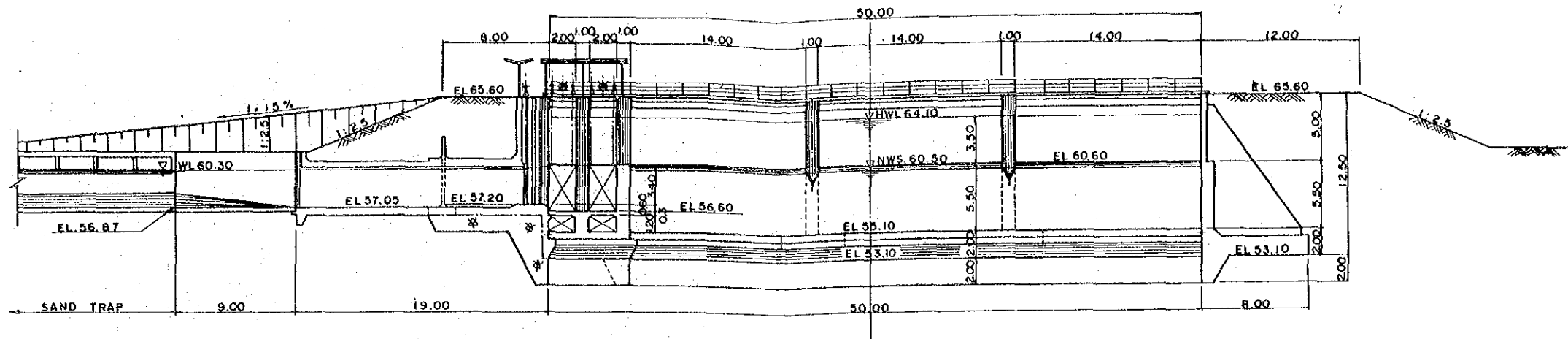


SECTION D-D

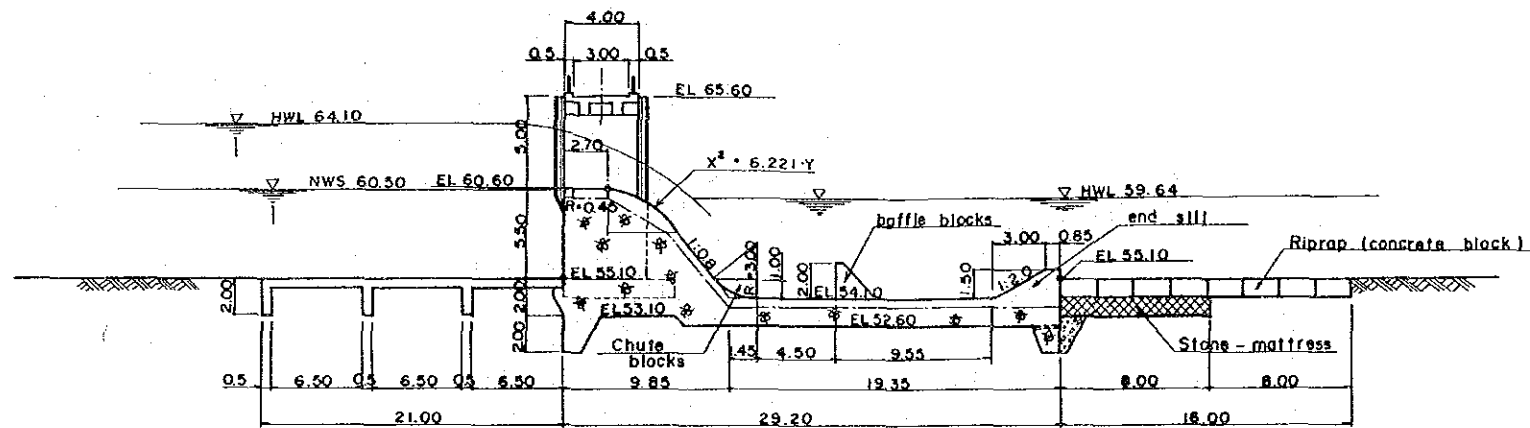


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DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
BATANG KUMU IRRIGATION PROJECT  
FEASIBILITY STUDY  
**DESIGN OF WEIR (4/5)**  
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA) DWG. NO.

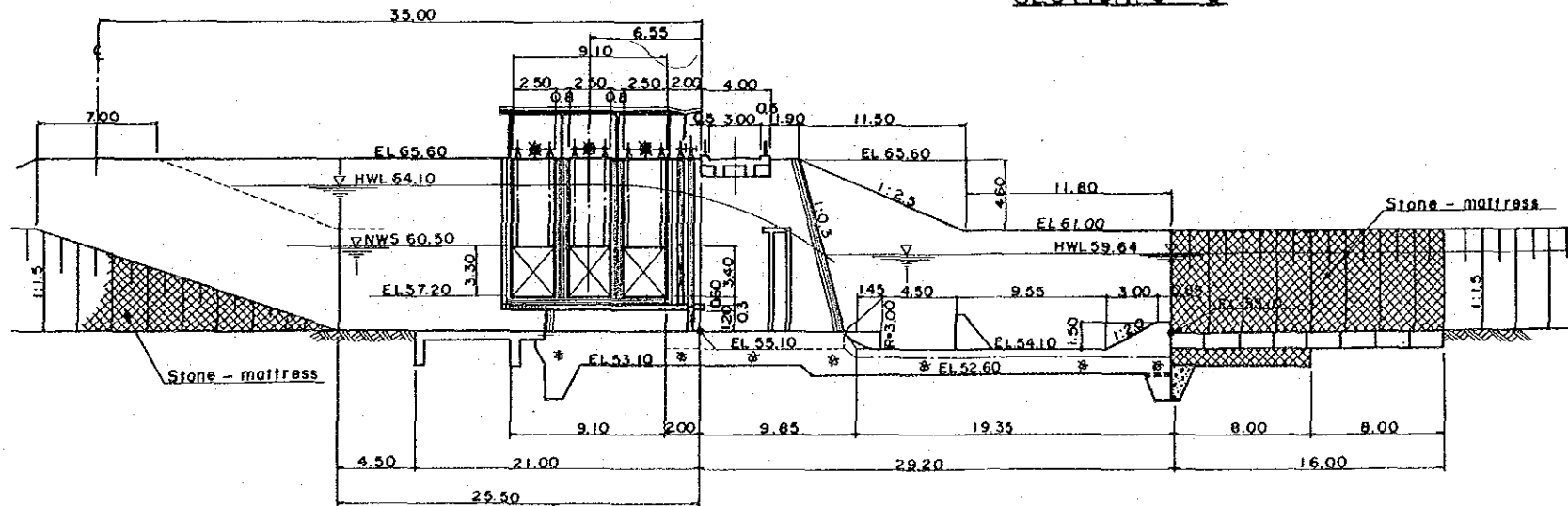
SECTION E-E



SECTION F-F



SECTION G-G



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 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
**BATANG KUMU IRRIGATION PROJECT**  
 FEASIBILITY STUDY

**DESIGN OF WEIR (5/5)**

JAPAN INTERNATIONAL COOPERATION AGENCY  
 TOKYO (JICA)

DWG. NO.







JICA