REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE OF WATER RESOURCES DEVELOPMENT

FEASIBILITY STUDY

· ON

BATANG KUMU IRRIGATION PROJECT
IN RIAU PROVINCE

VOLUME III
DRAWINGS

MARCH 1989



JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO, JAPAN



REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE OF WATER RESOURCES DEVELOPMENT

FEASIBILITY STUDY

ON

BATANG KUMU IRRIGATION PROJECT

IN RIAU PROVINCE

VOLUME III
DRAWINGS

MARCH 1989

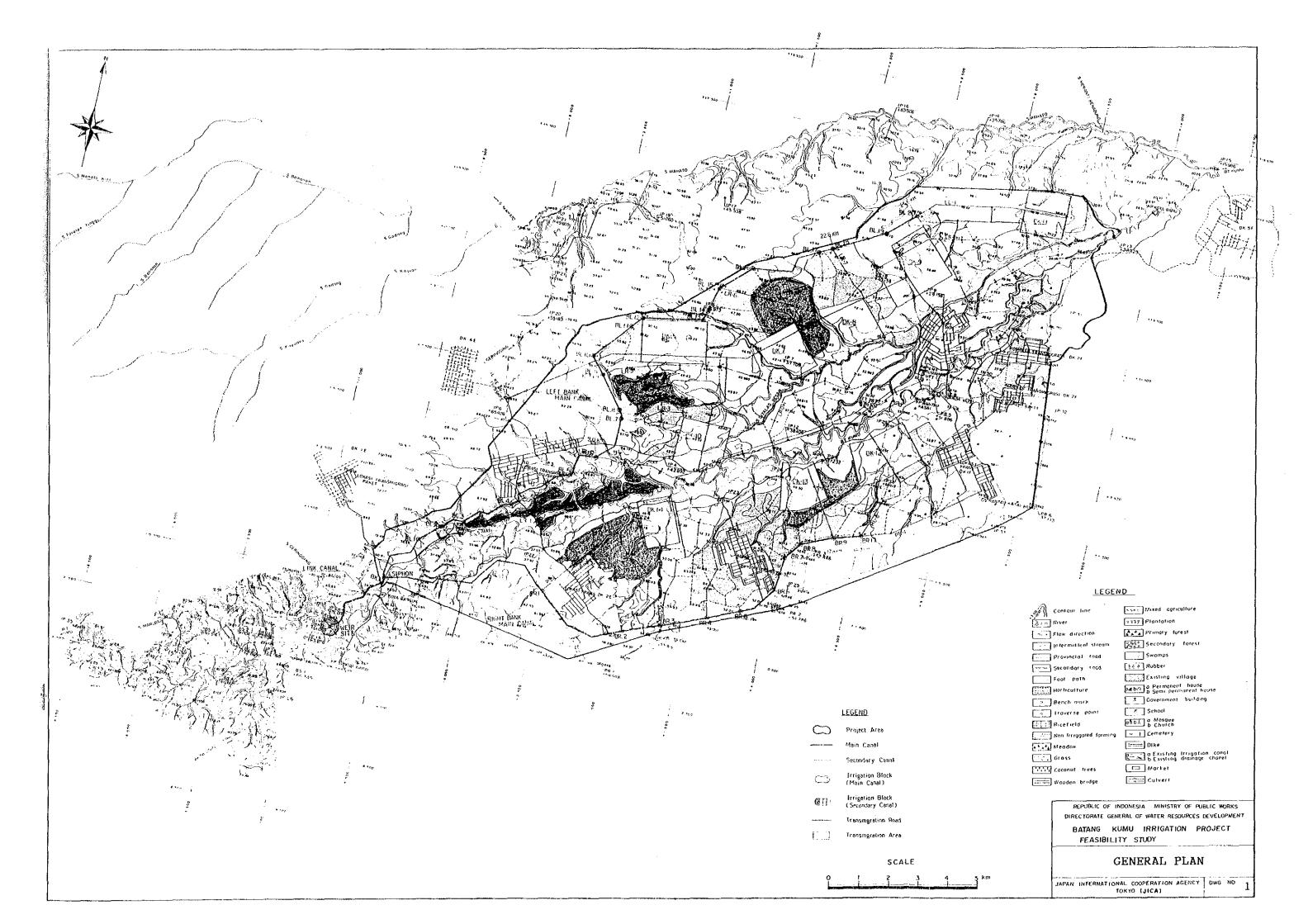
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO, JAPAN

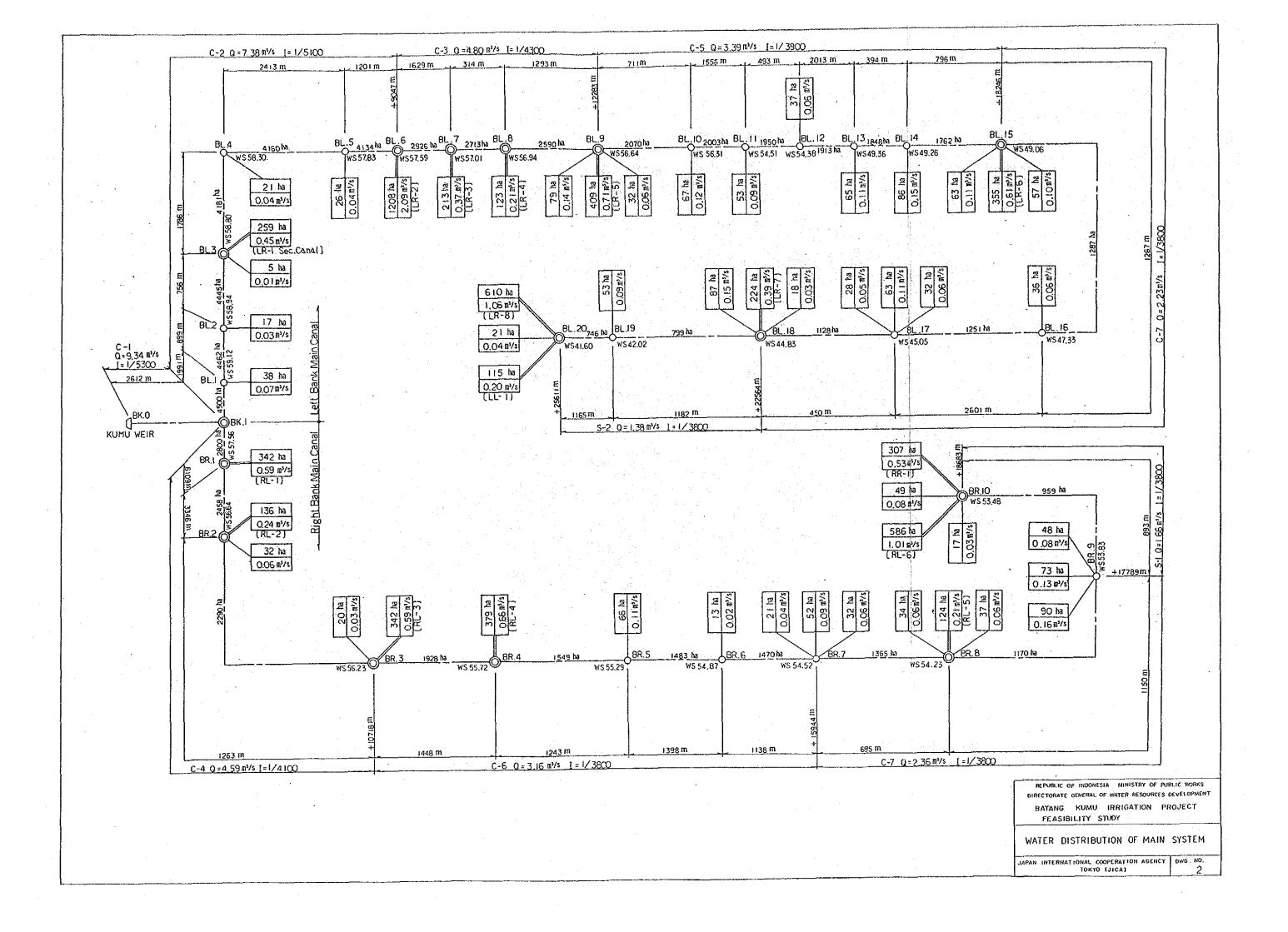
AFT CR(3) 89-15 国際協力事業団 19337

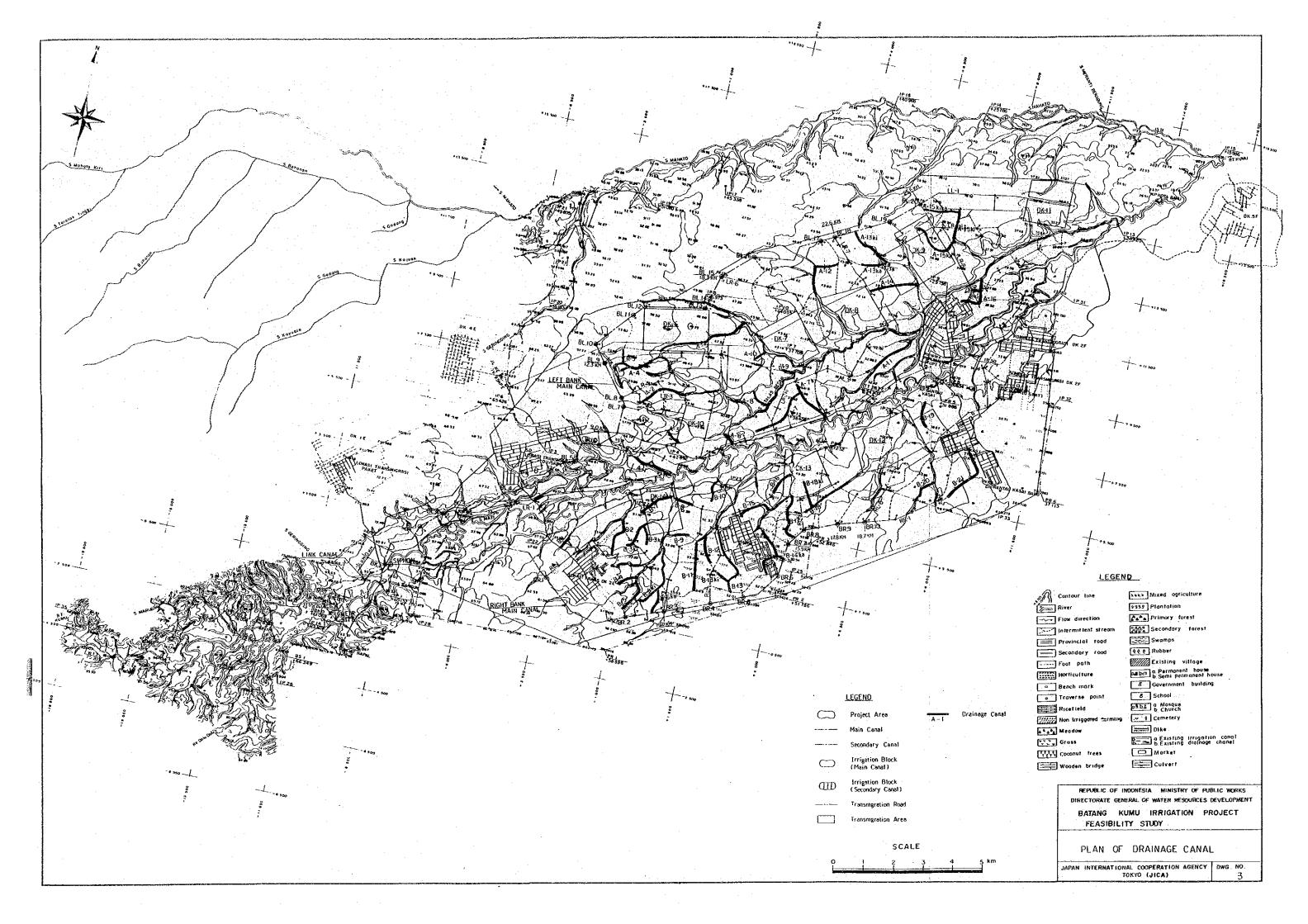
BATANG KUMU IRRIGATION PROJECT

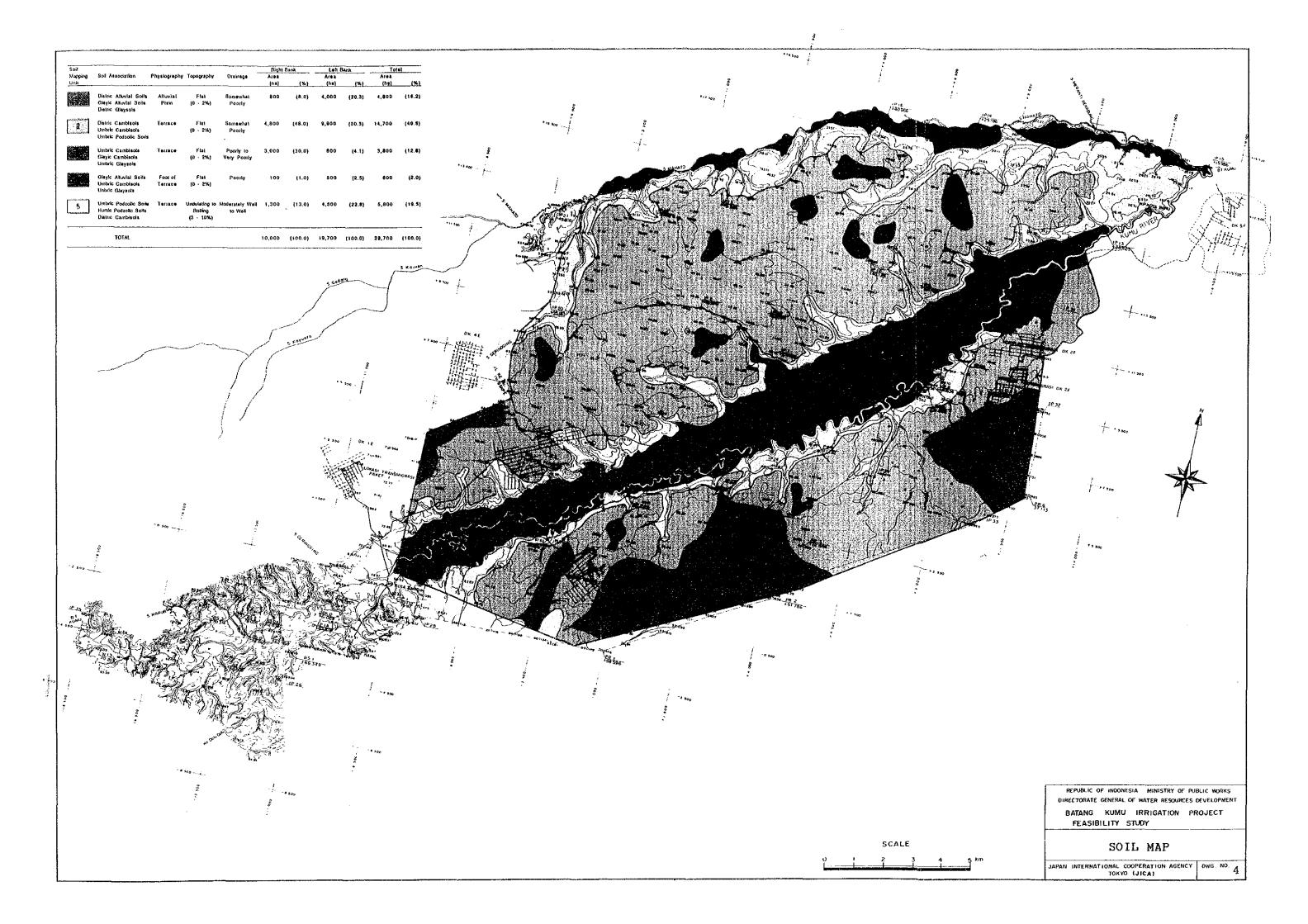
LIST OF DRAWINGS

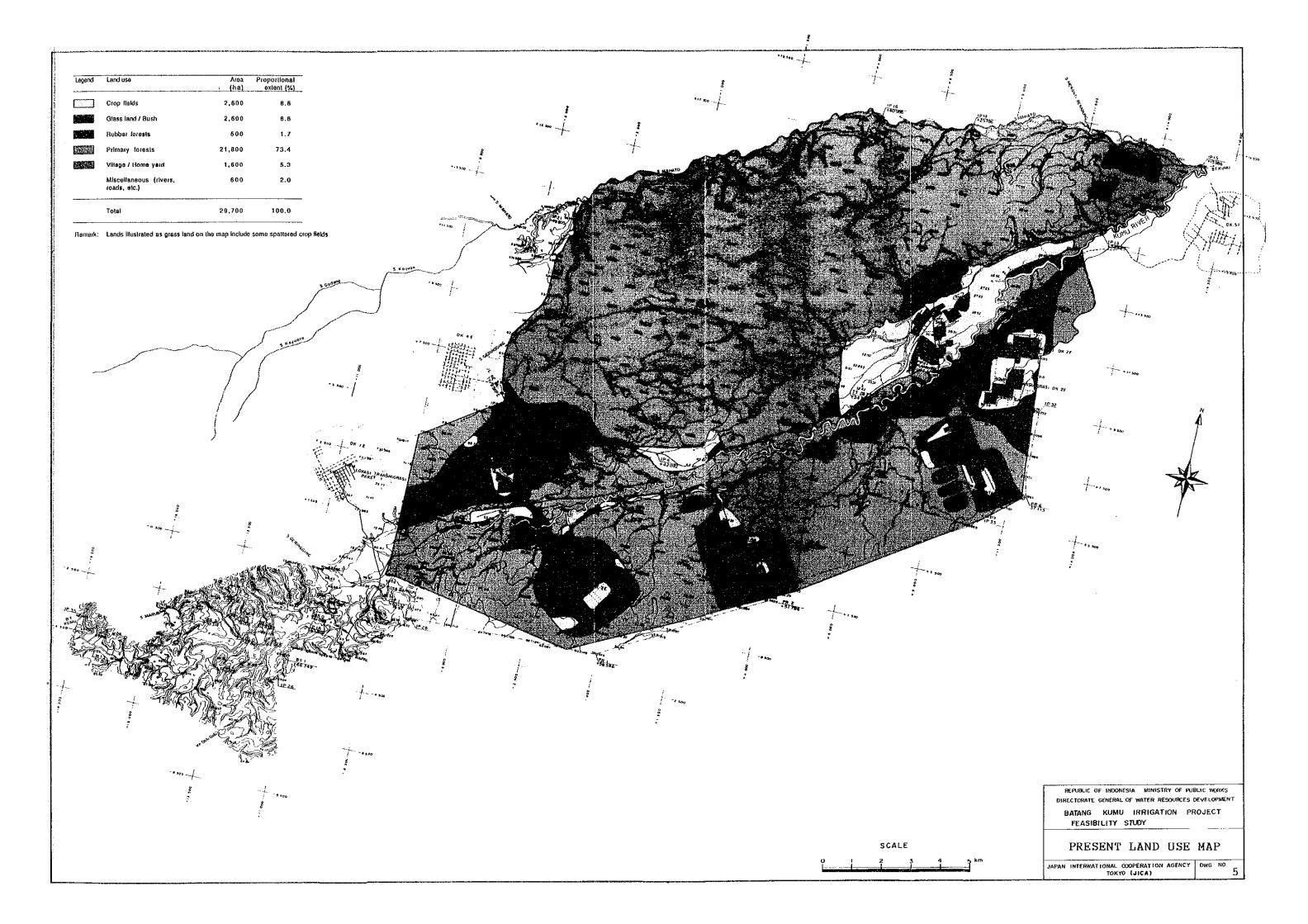
DWG.NO.	TITLE
	CONTRACTOR A T. VOY B IV
	GENERAL PLAN
2	WATER DISTRIBUTION OF MAIN SYSTEM
3	PLAN OF DRAINAGE CANAL
4	SOIL MAP
5	PRESENT LAND USE MAP
6 :	LAND SUITABILITY MAP FOR PADDY
7	LAND SUITABILITY MAP FOR UPLAND AND
	PERENNIAL CROPS
8	GEOLOGICAL MAP
9	PLAN OF KUMU WEIR (1)
10	PROFILE OF KUMU WEIR AXIS
11	PROFILE OF COUPURE AXIS
12	PLAN OF KUMU WEIR (2)
13	SECTION OF KUMU WEIR
14	LINK CANAL PROFILE (1/2)
15	LINK CANAL PROFILE (2/2)
16	LEFT BANK MAIN CANAL (1/5)
17	LEFT BANK MAIN CANAL (2/5)
18	LEFT BANK MAIN CANAL (3/5)
19	LEFT BANK MAIN CANAL (4/5)
20	LEFT BANK MAIN CANAL (5/5)
21	RIGHT BANK MAIN CANAL (1/4)
2 2	RIGHT BANK MAIN CANAL (2/4)
23	RIGHT BANK MAIN CANAL (3/4)
24	RIGHT BANK MAIN CANAL (4/4)
25	TYPICAL CROSS SECTION OF THIN
	CONCRETE LINING CANAL
26	TYPICAL CROSS SECTION OF EARTH CANAL

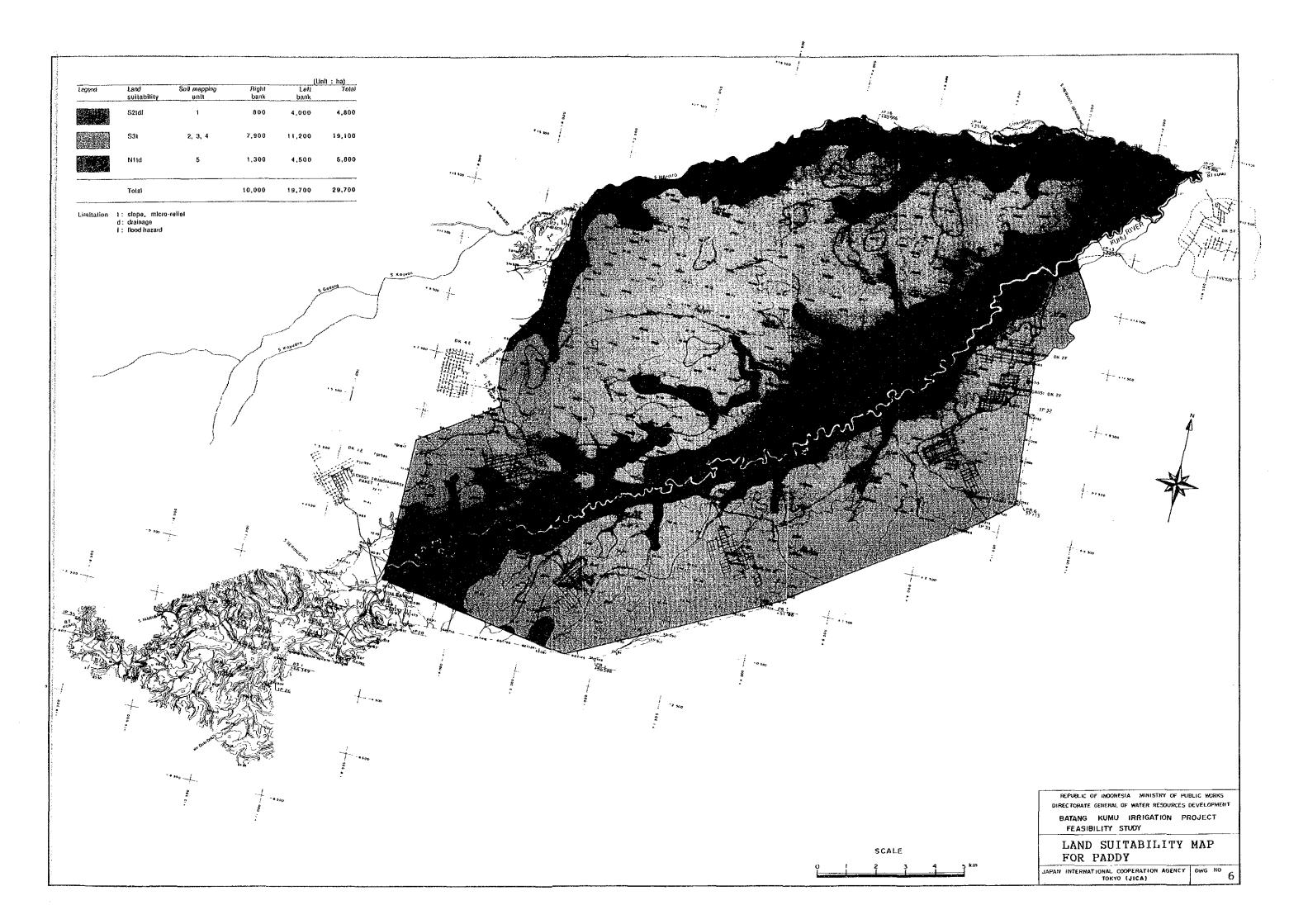


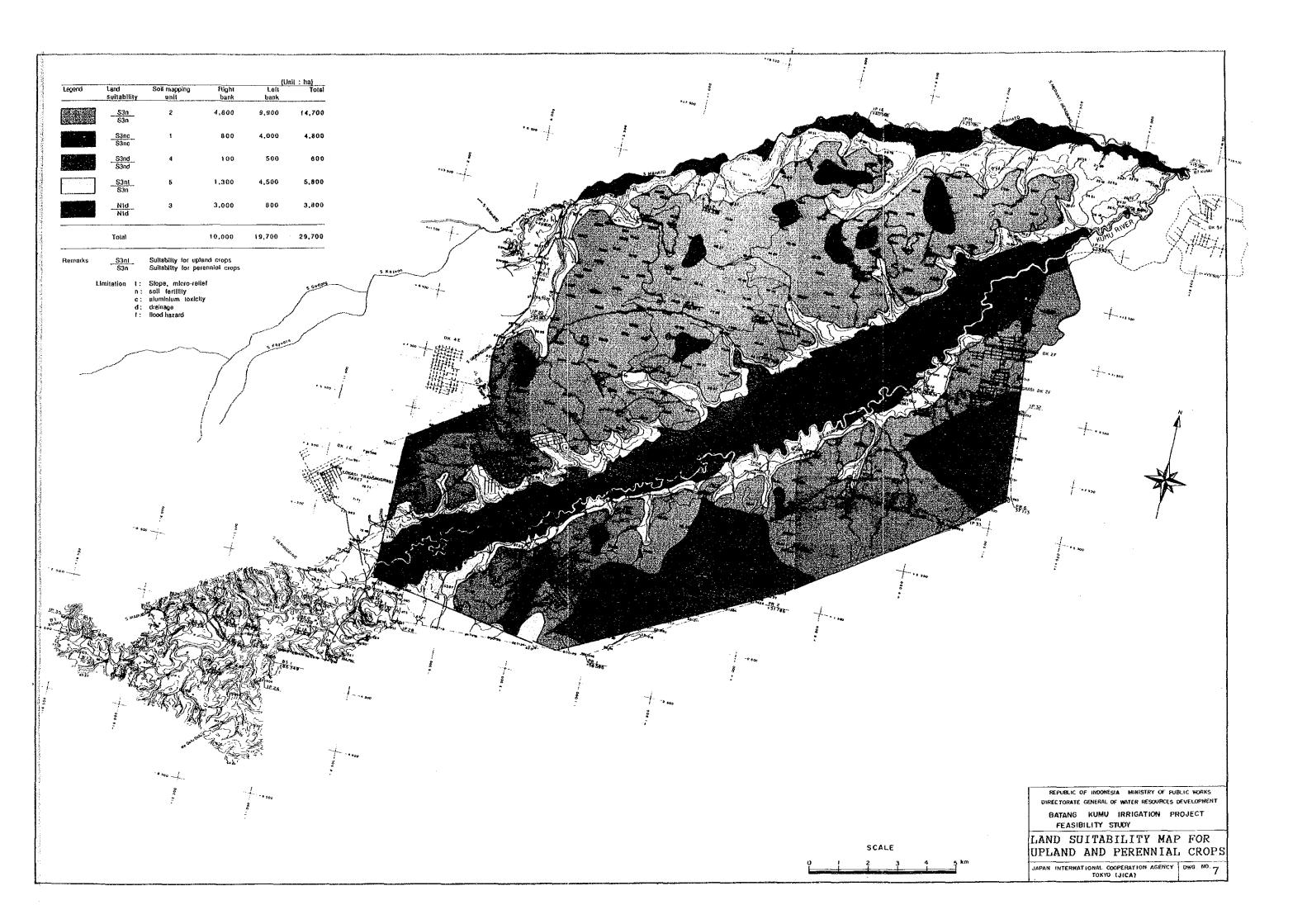


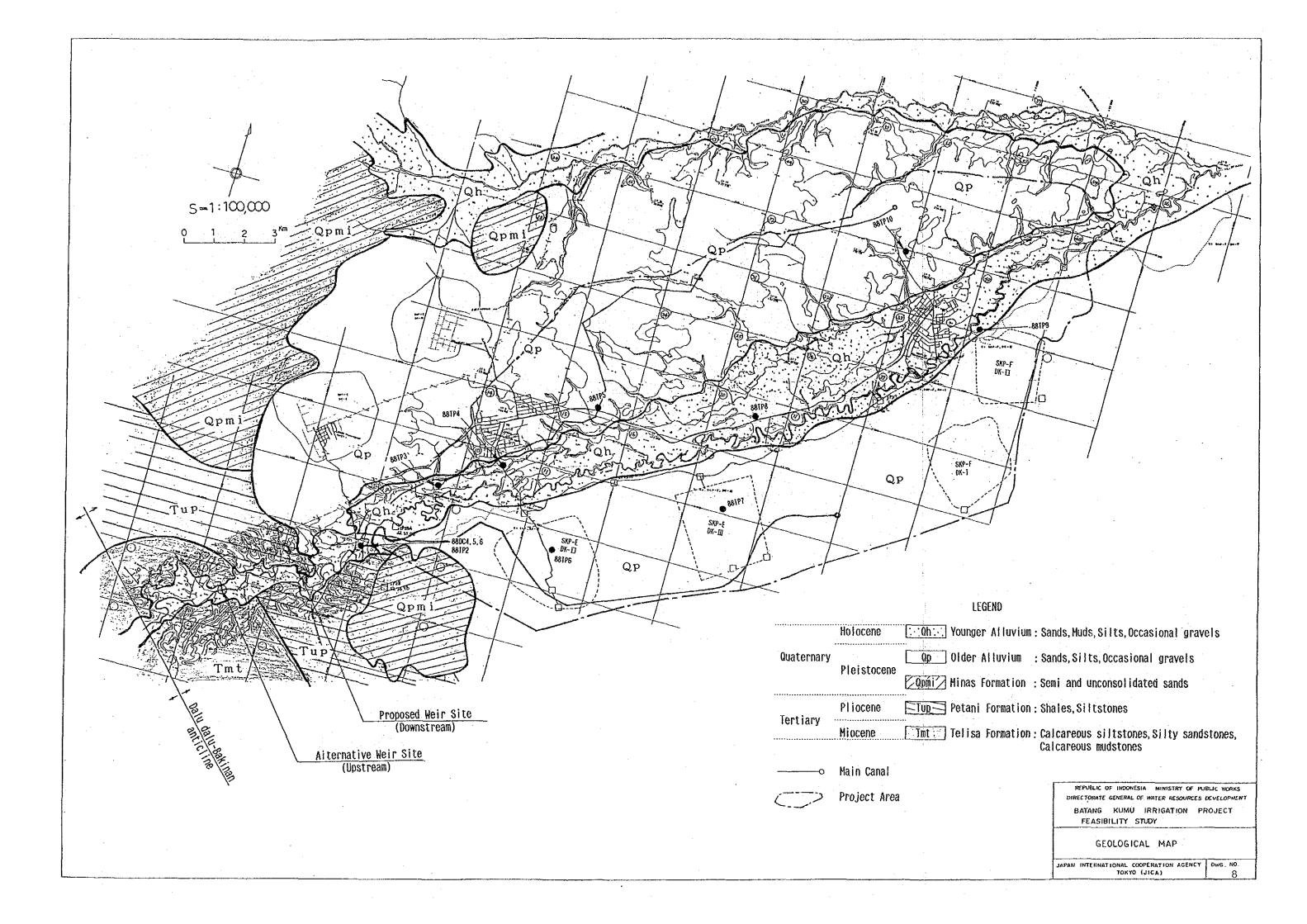


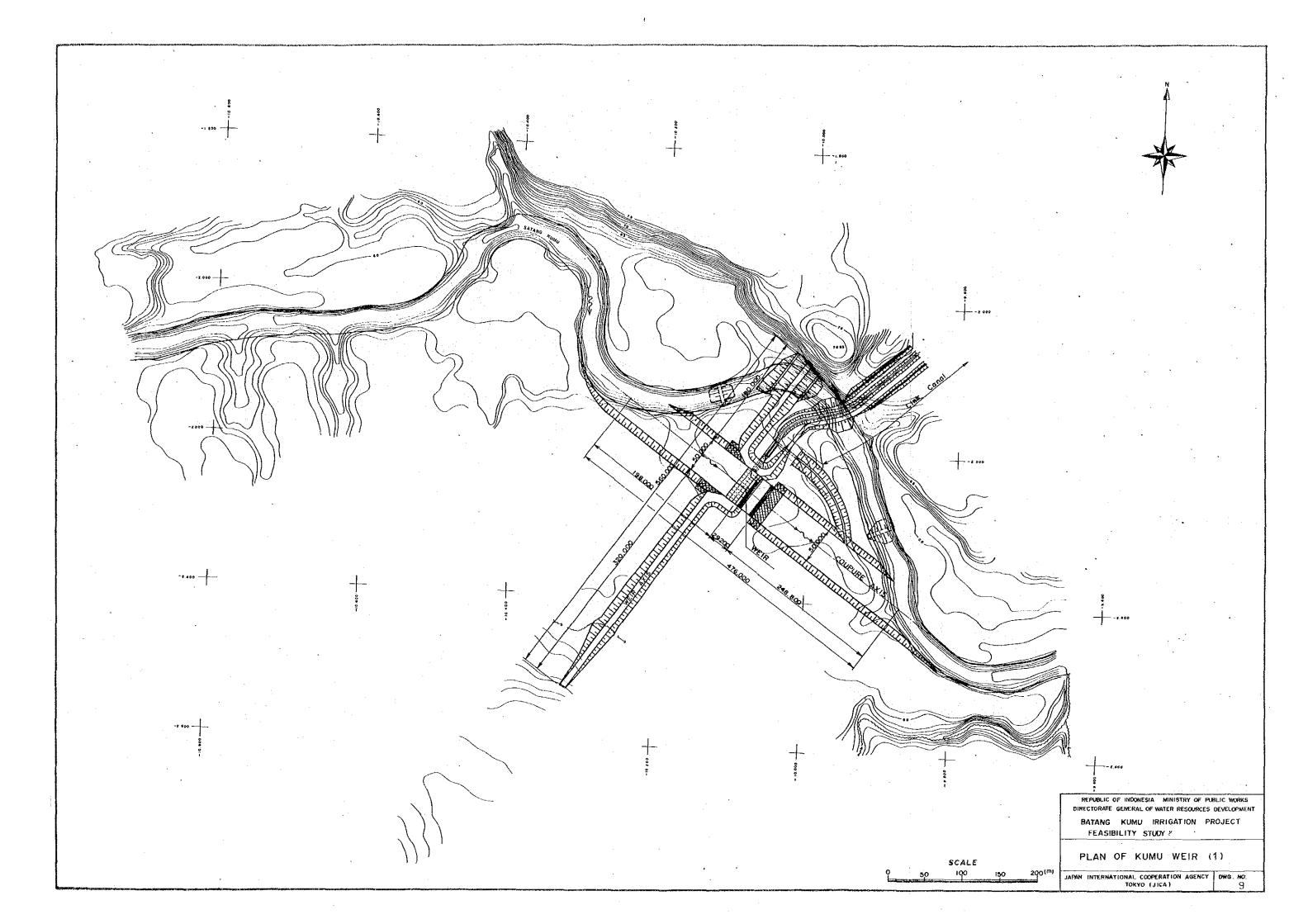


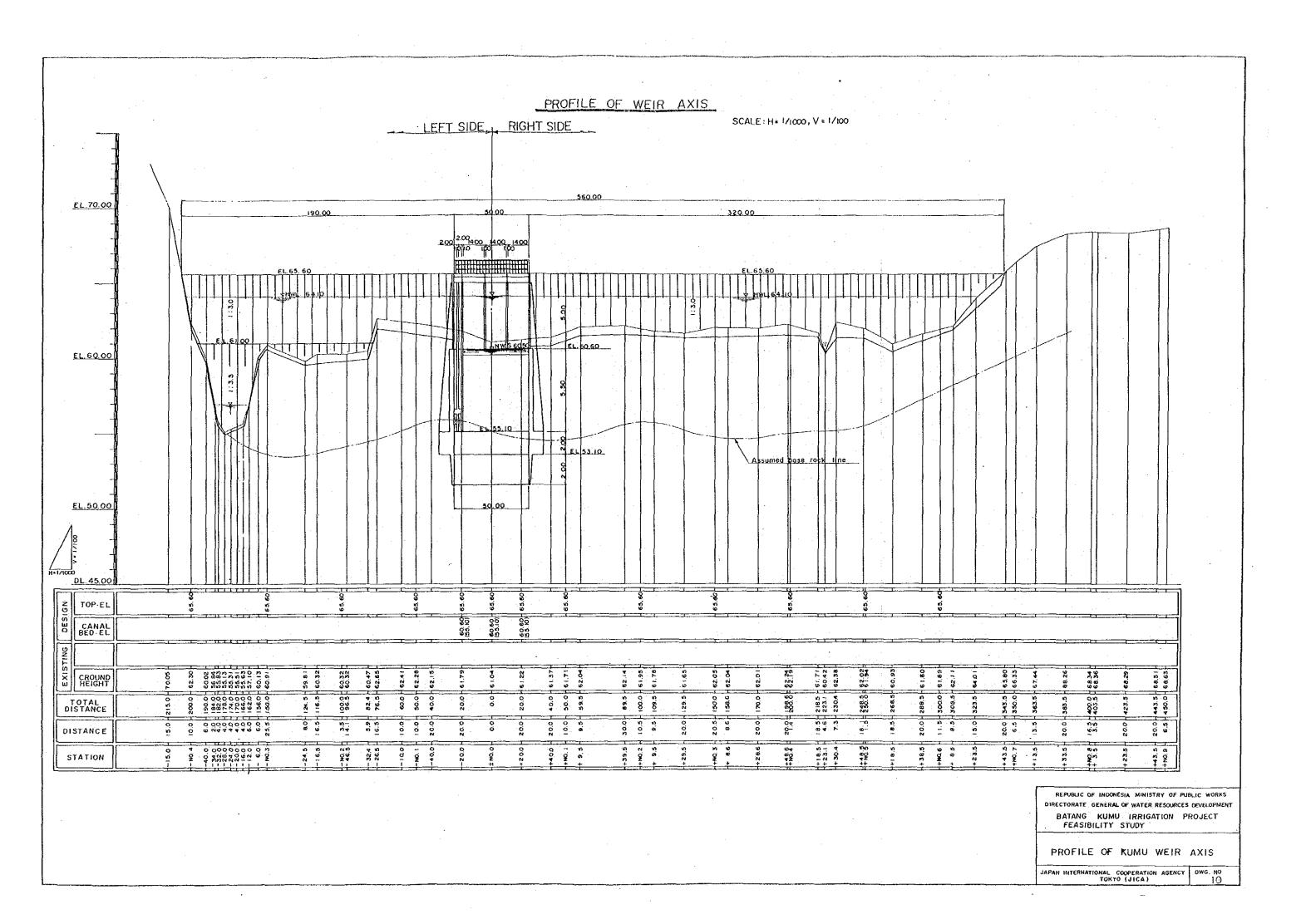


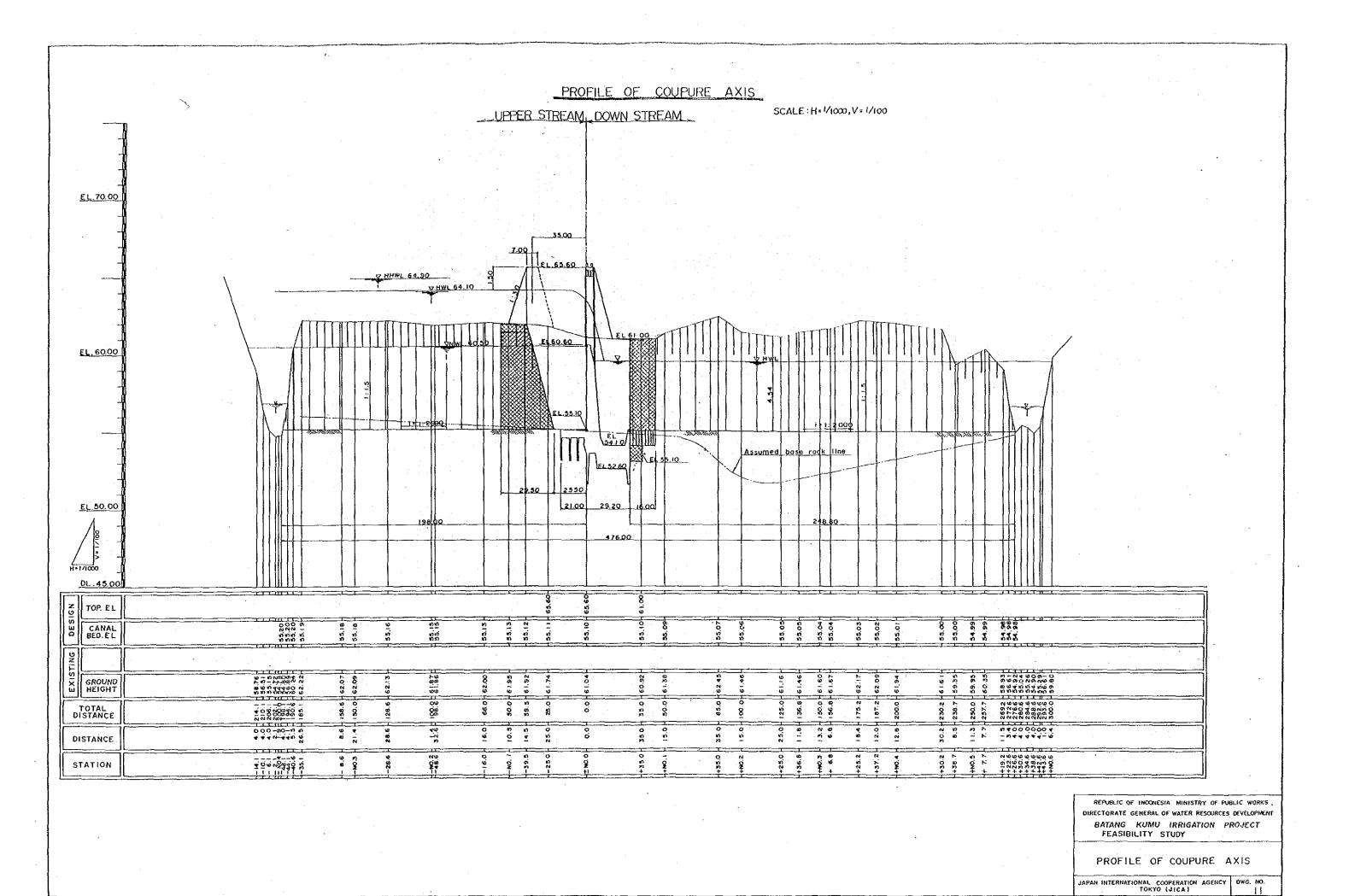


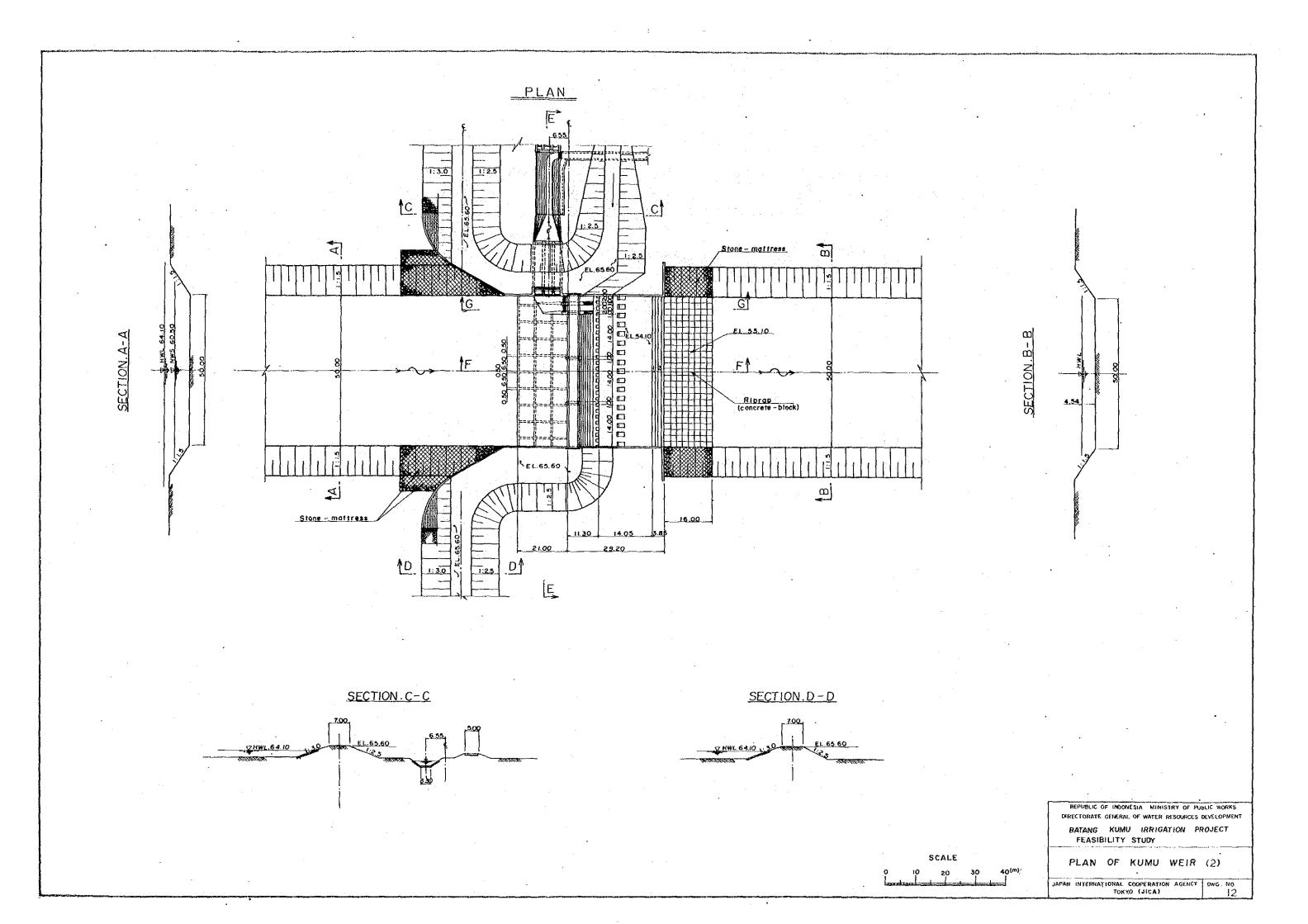




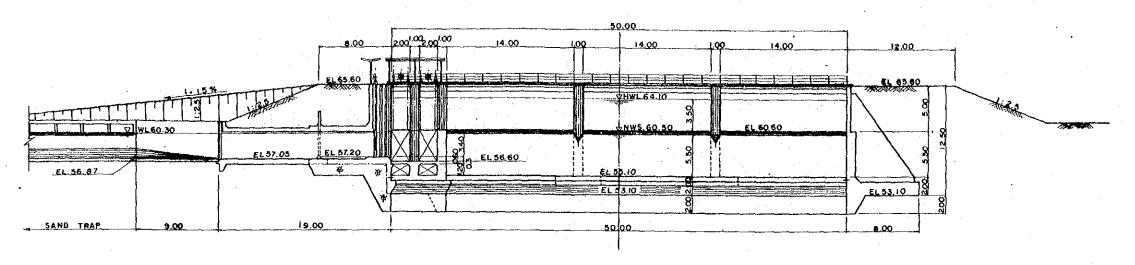




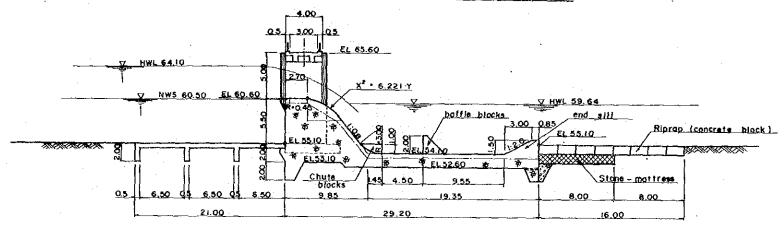


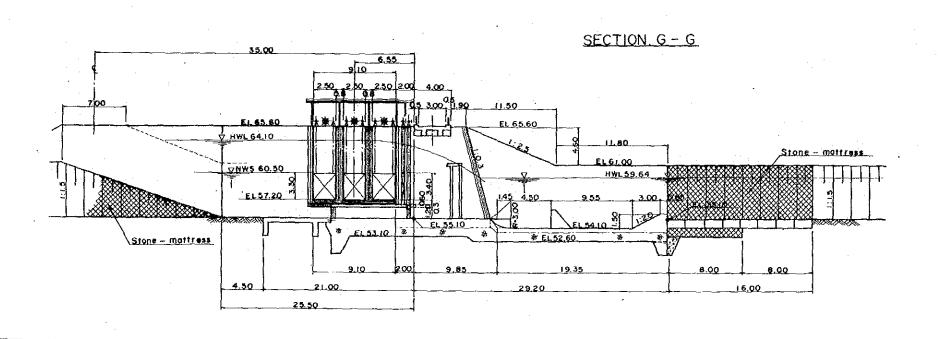


SECTION E-E



SECTION. F - F



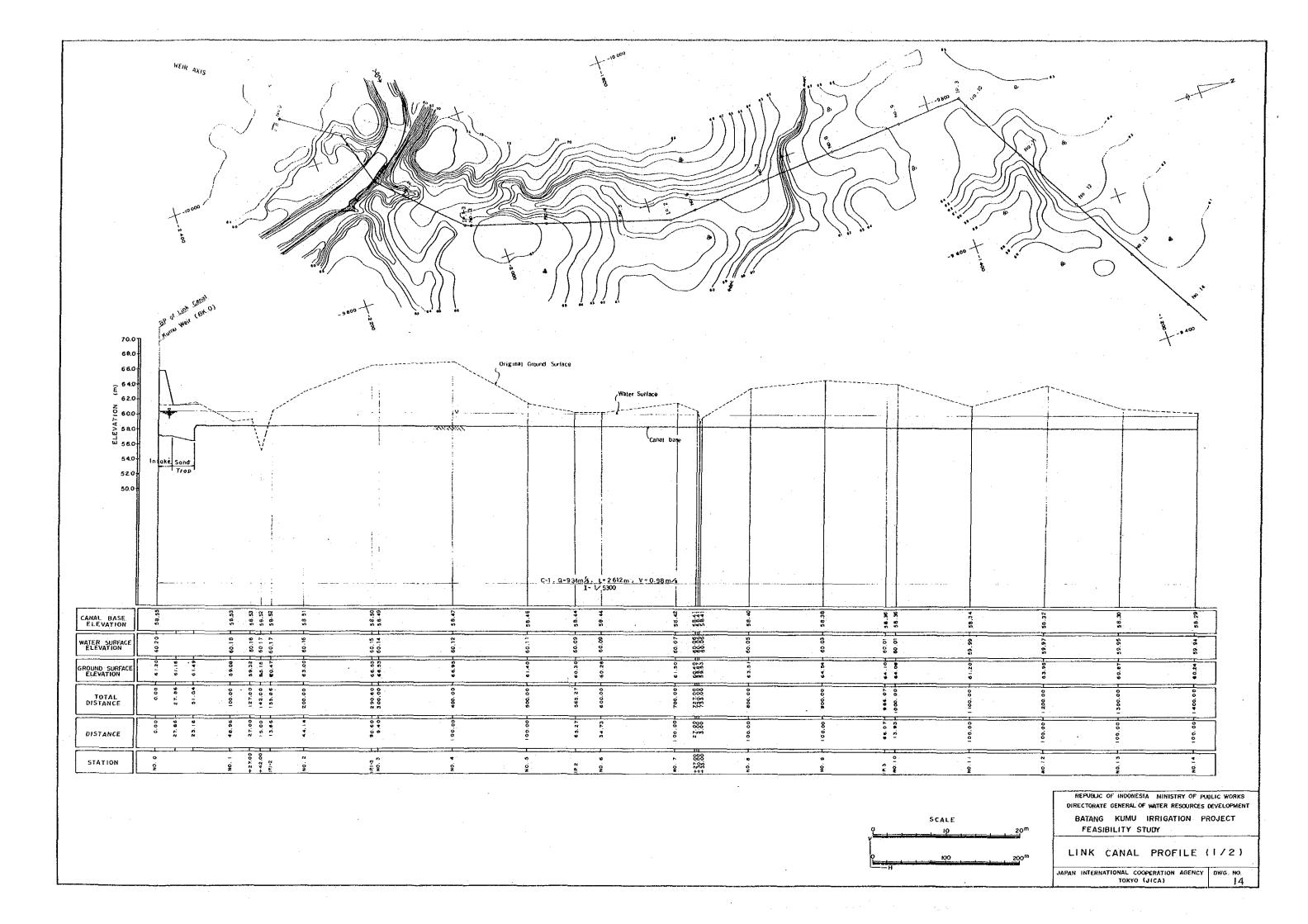


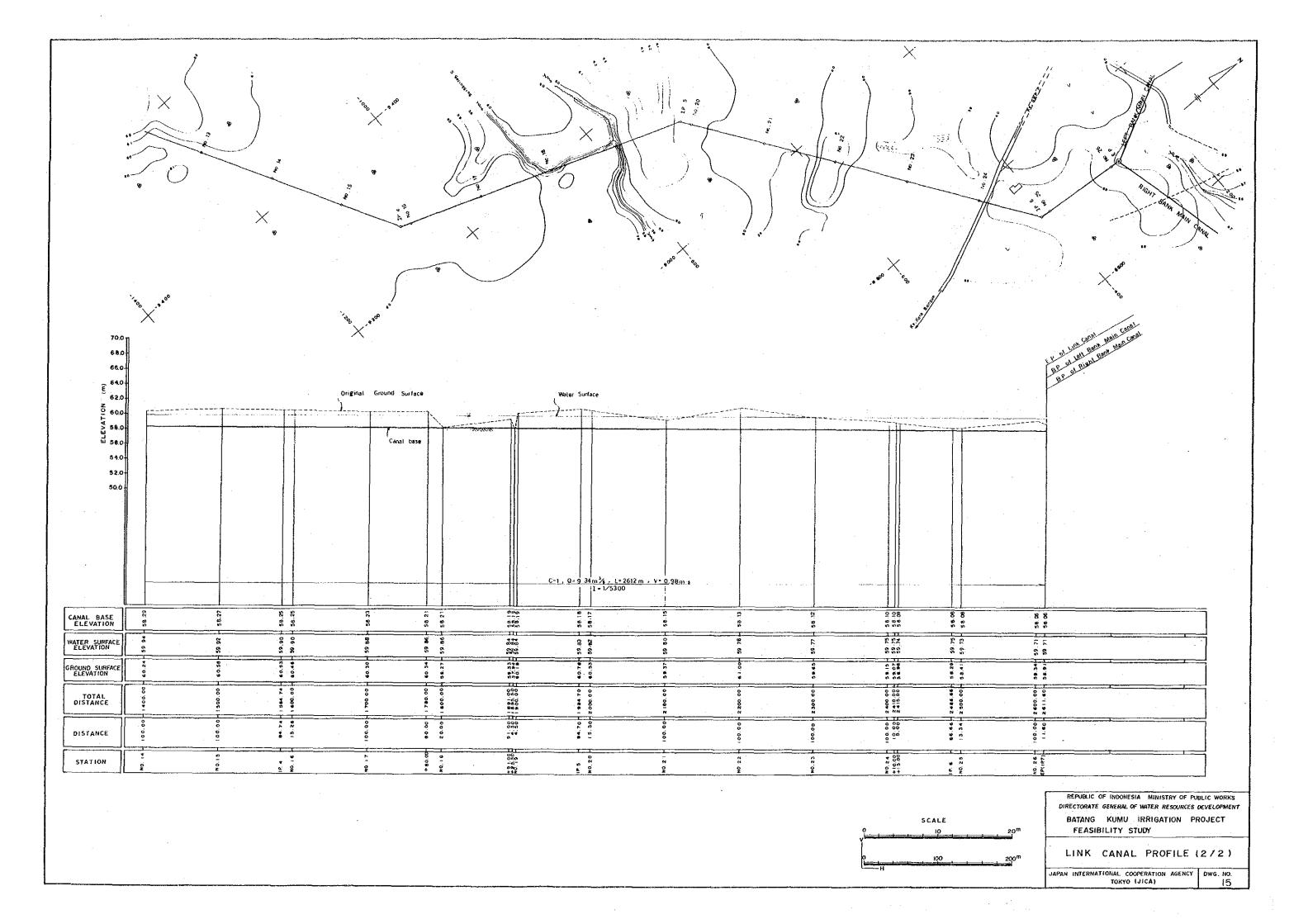
REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
BATANG KUMU IRRIGATION PROJECT
FEASIBILITY STUDY

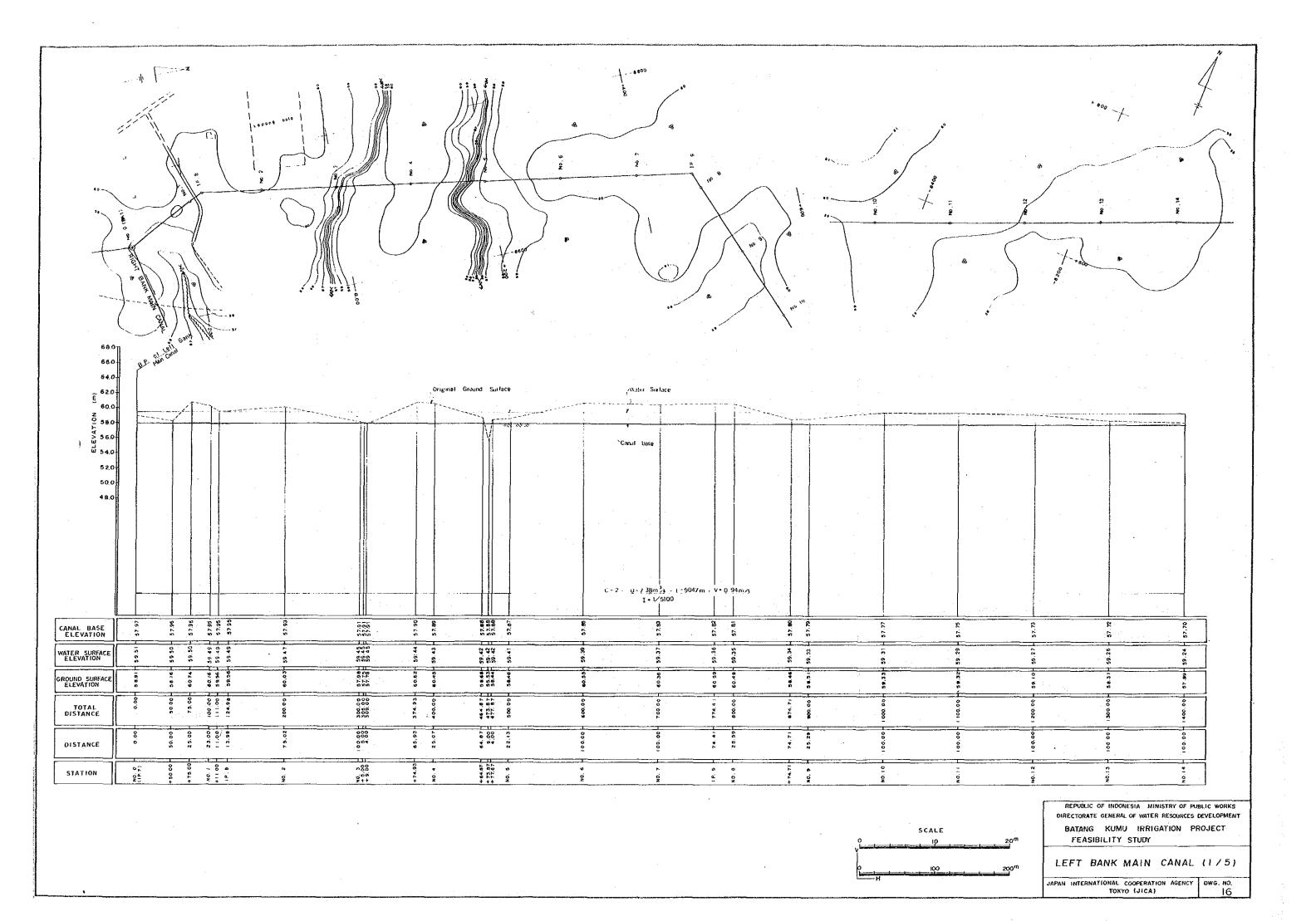
SECTION OF KUMU WEIR

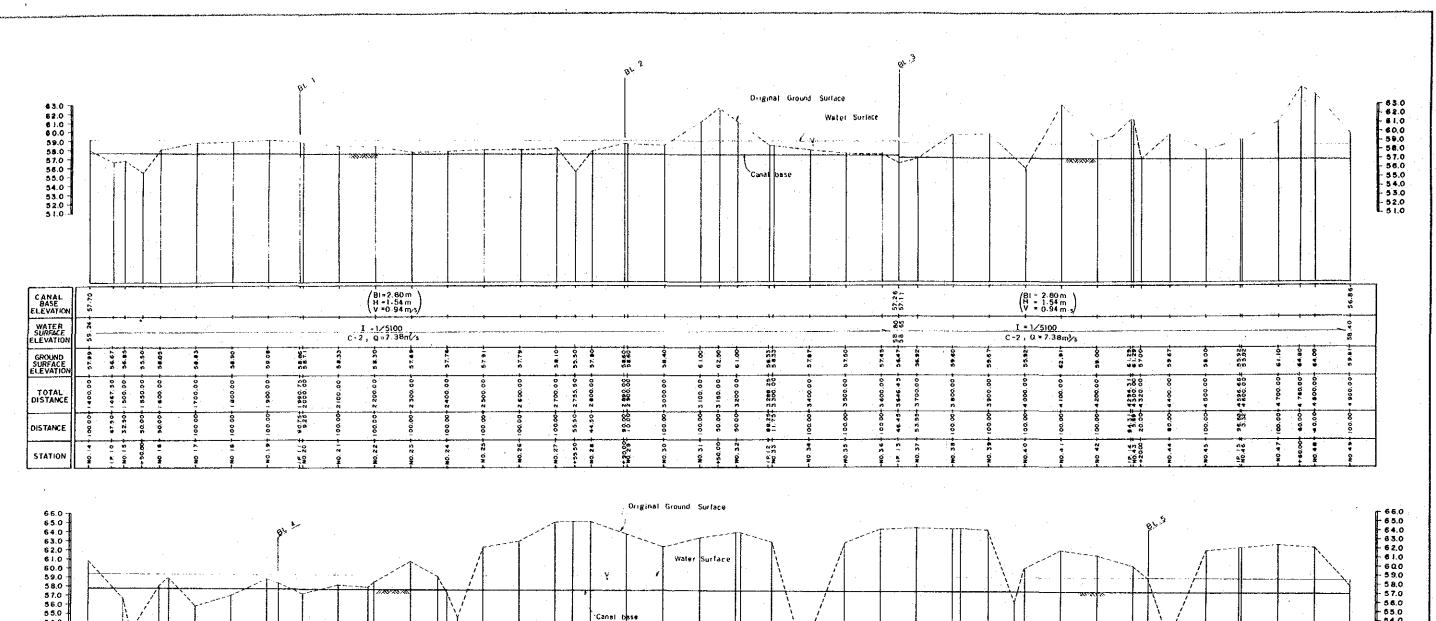
JAPAN INTERNATIONAL COOPERATION AGENCY DWG NO. TOKYO (JICA) 13

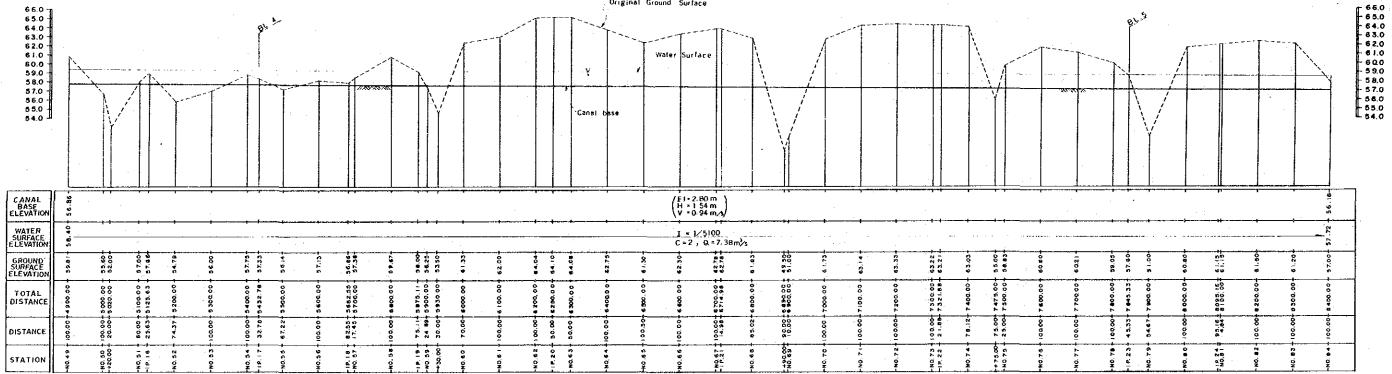
SCALE SEC







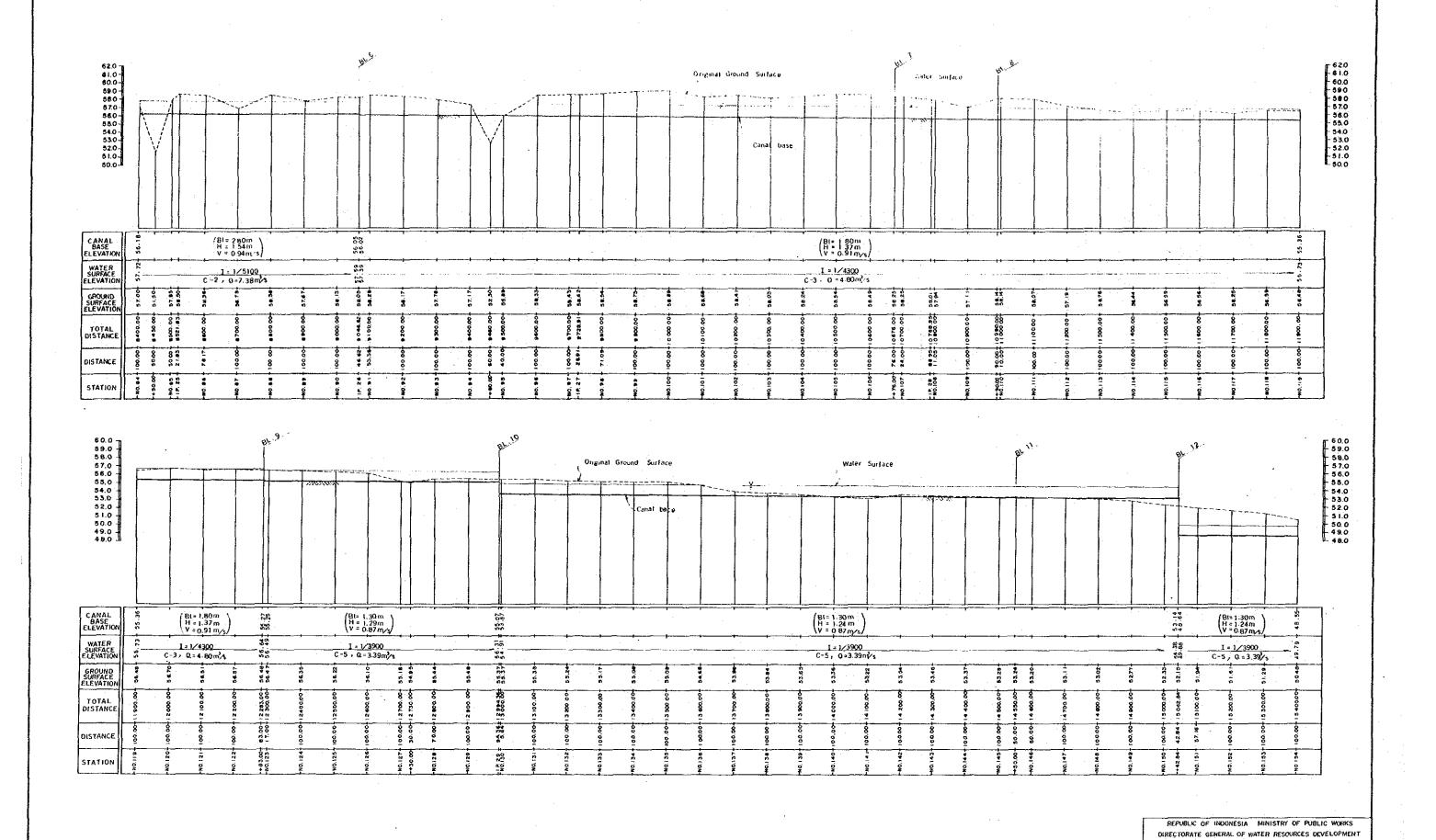




REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT BATANG KUMU IRRIGATION PROJECT FEASIBILITY STUDY

LEFT BANK MAIN CANAL (2/5)

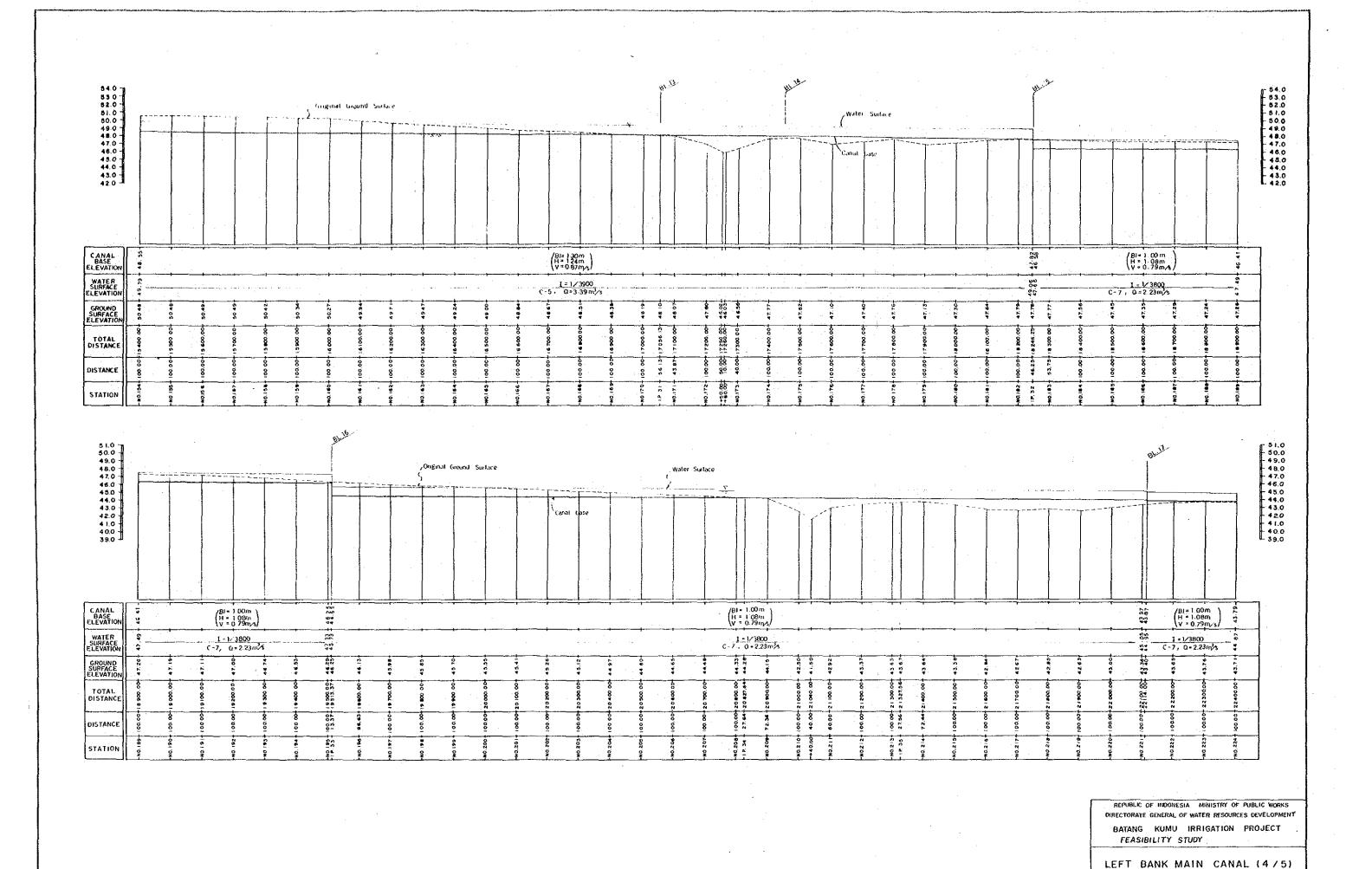
JAPAN INTERNATIONAL COOPERATION AGENCY DWG. NO. TOKYO (JICA) 17



BATANG KUMU IRRIGATION PROJECT

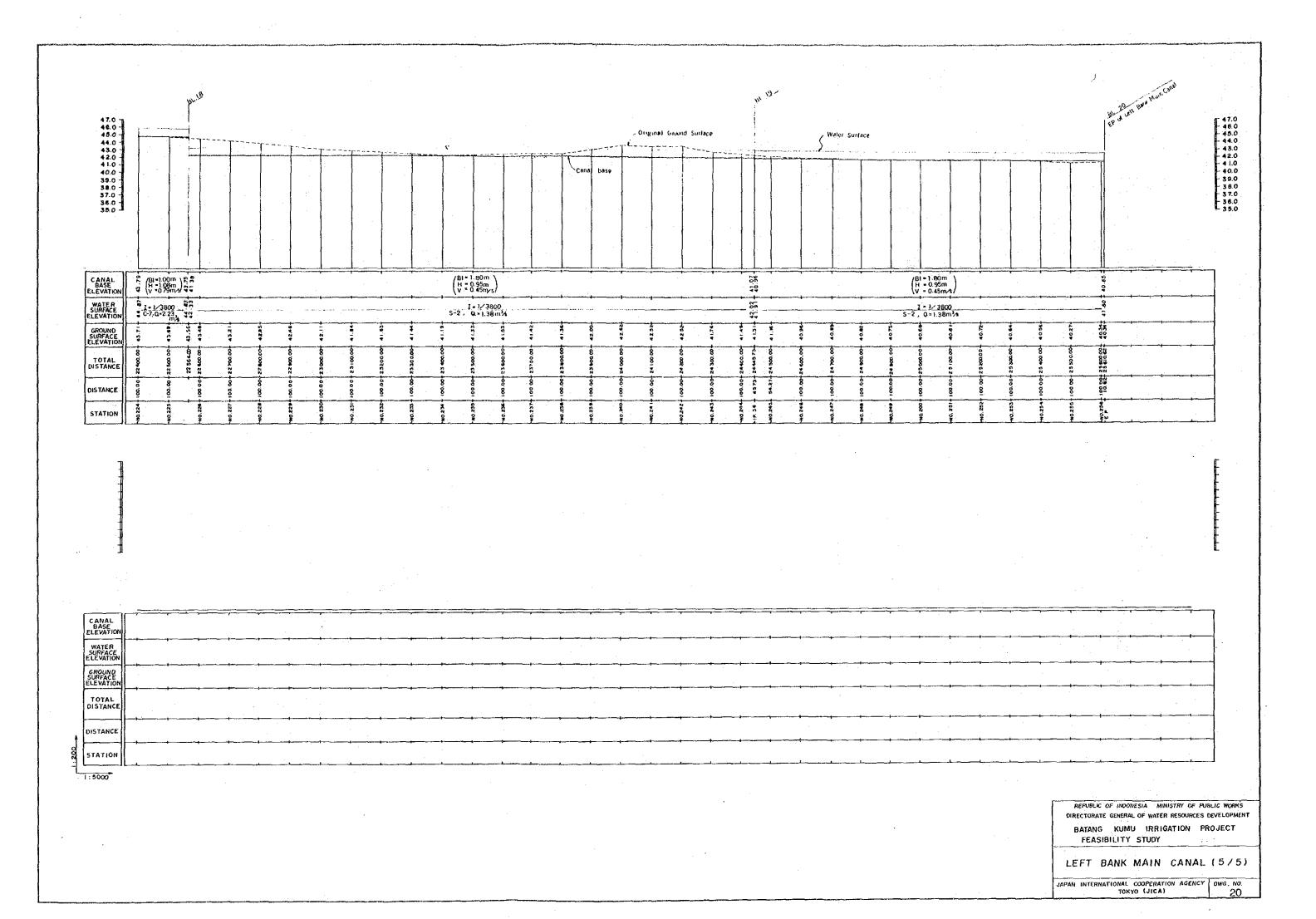
JAPAN INTERNATIONAL COOPERATION AGENCY DWG NO.

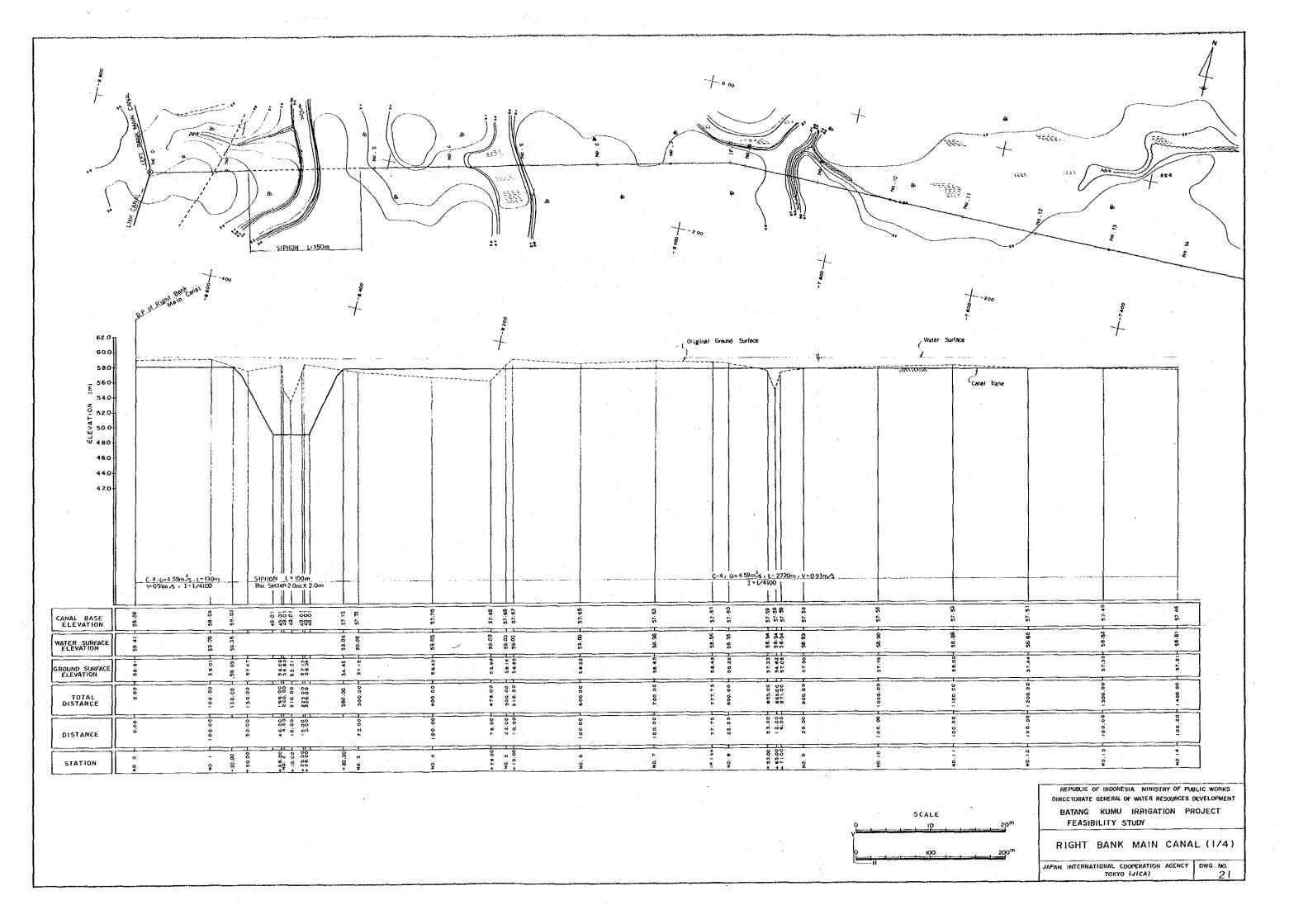
FEASIBILITY STUDY

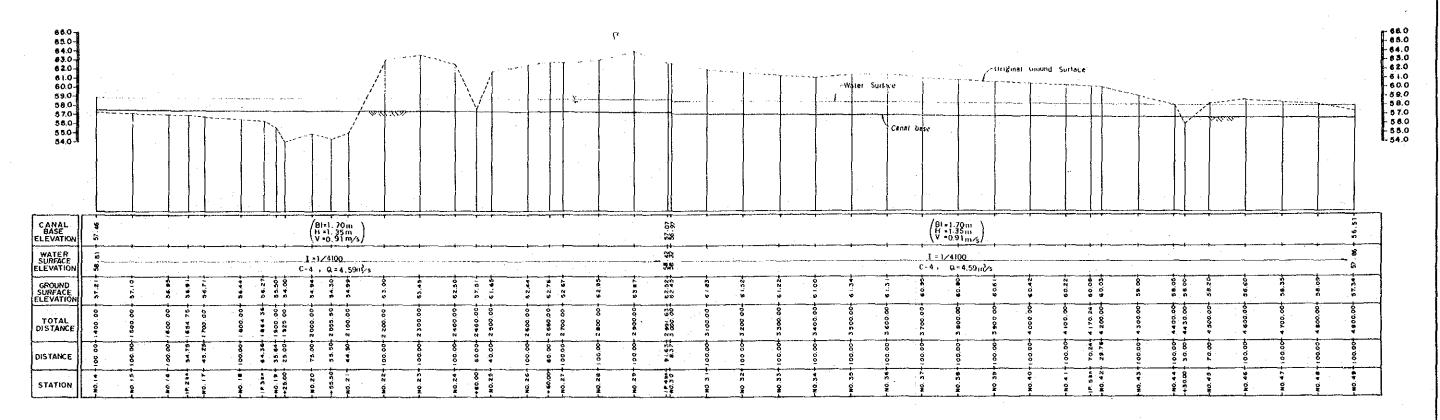


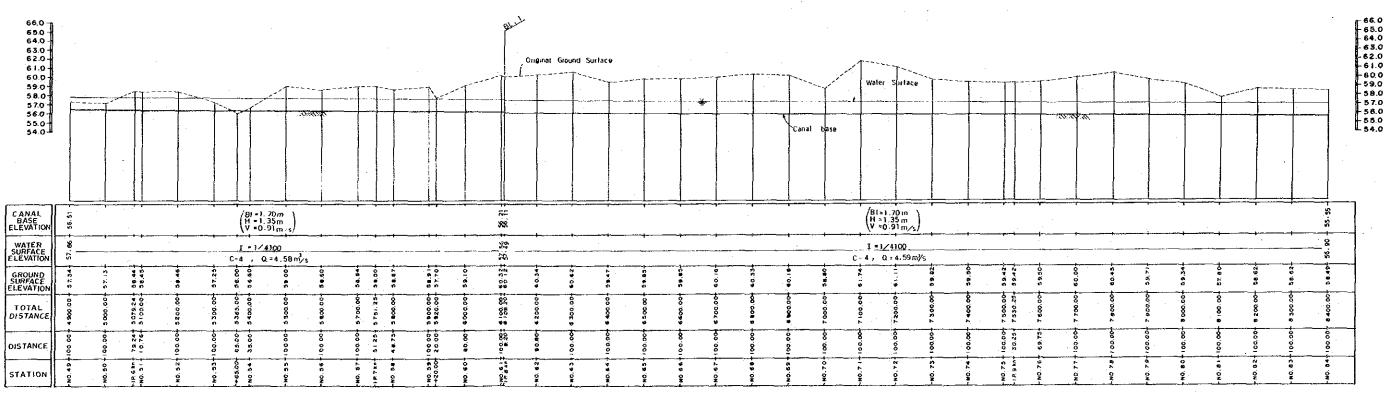
JAPAN INTERNATIONAL COOPERATION AGENCY DWG. NO.
TOKYO (JICA)

19





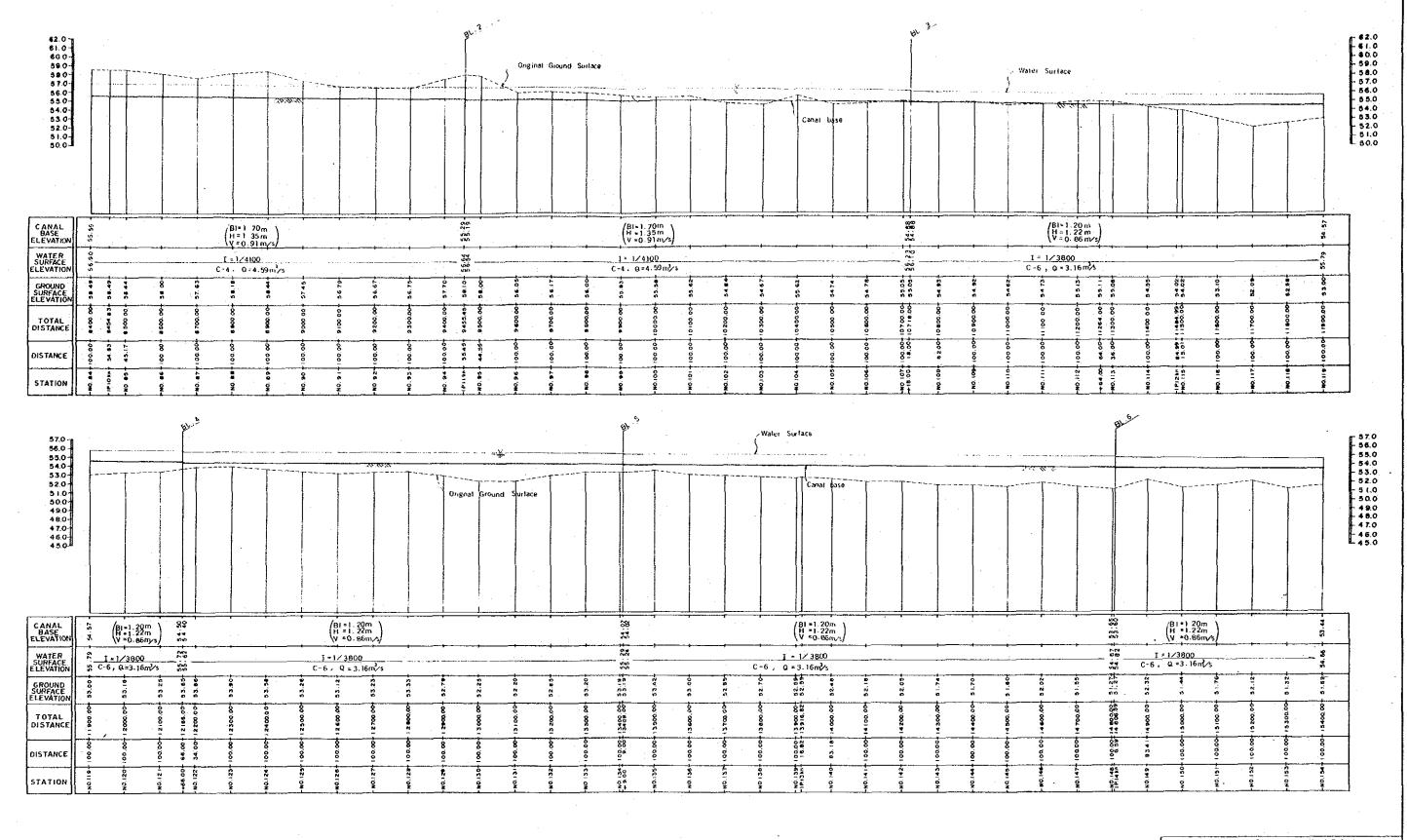




REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
BATANG KUMU IRRIGATION PROJECT
FEASIBILITY STUDY

RIGHT BANK MAIN CANAL (2/4)

JAPAN INTERNATIONAL COOPERATION AGENCY DWG. NO. TOKYO (JICA) 22

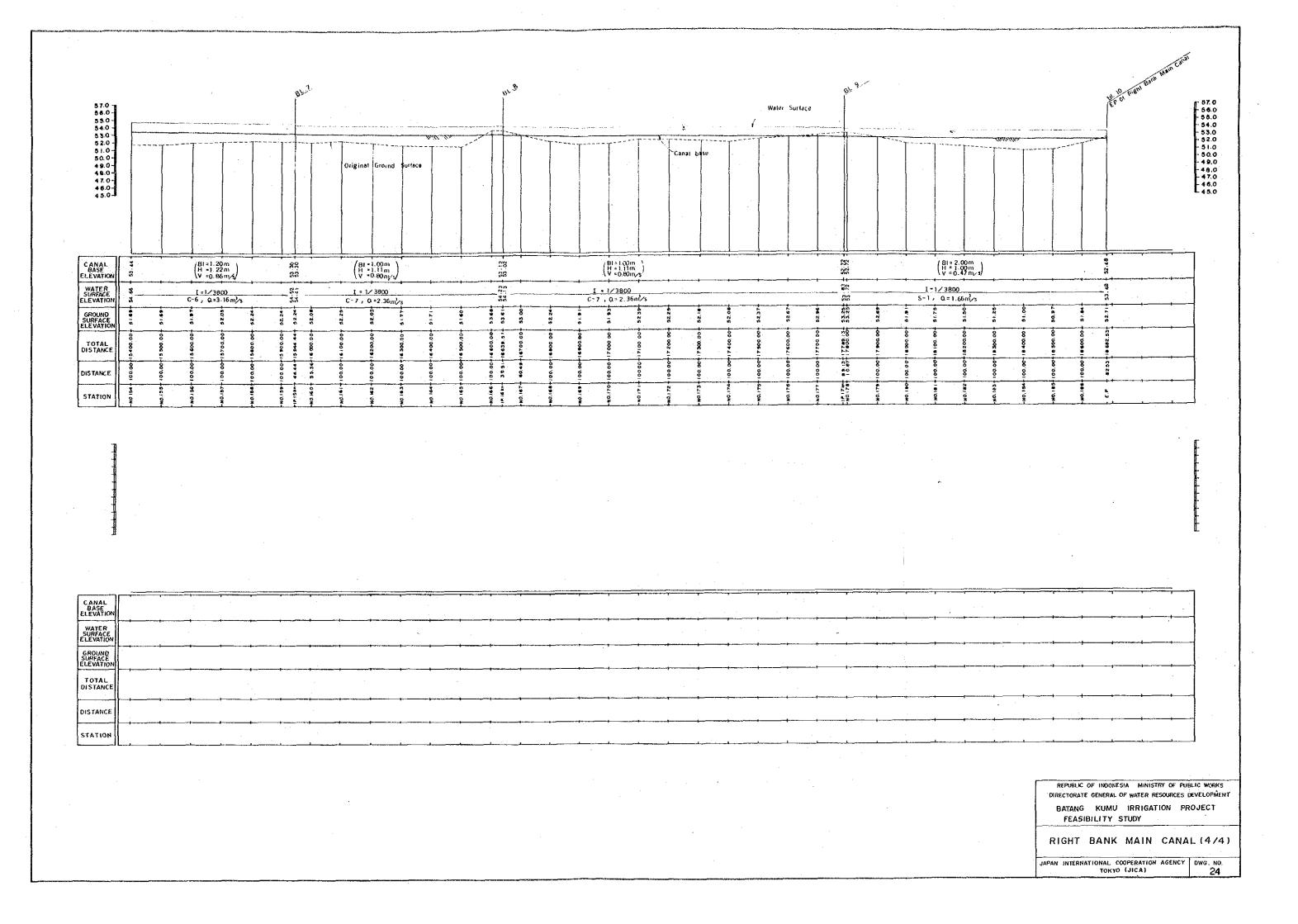


REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
BATANG KUMU IRRIGATION PROJECT
FEASIBILITY STUDY

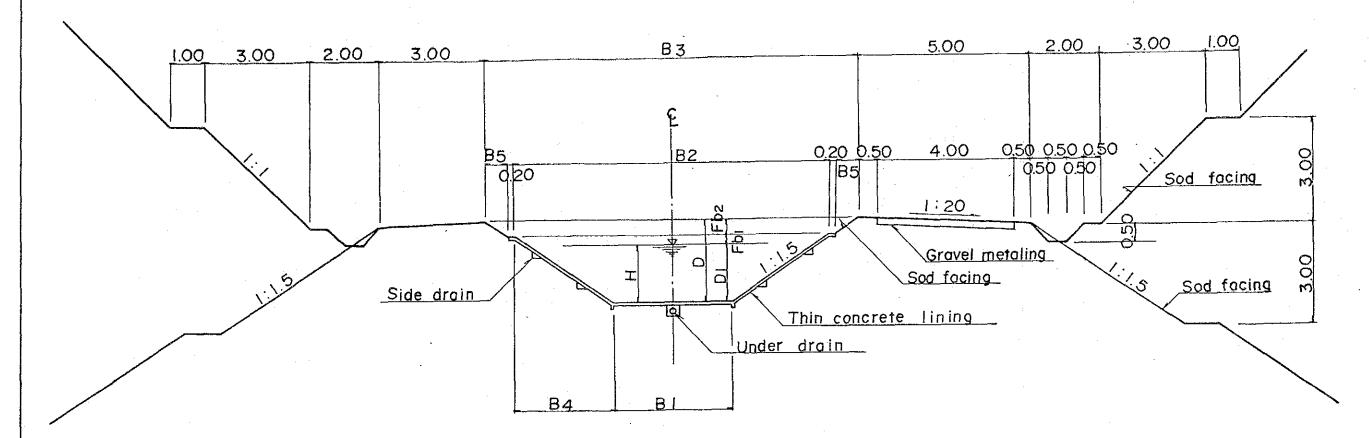
RIGHT BANK MAIN CANAL (3/4)

JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA)

DWG, NO. 23



THIN CONCRETE LINING CANAL



Dimension of Concrete Lining Canal

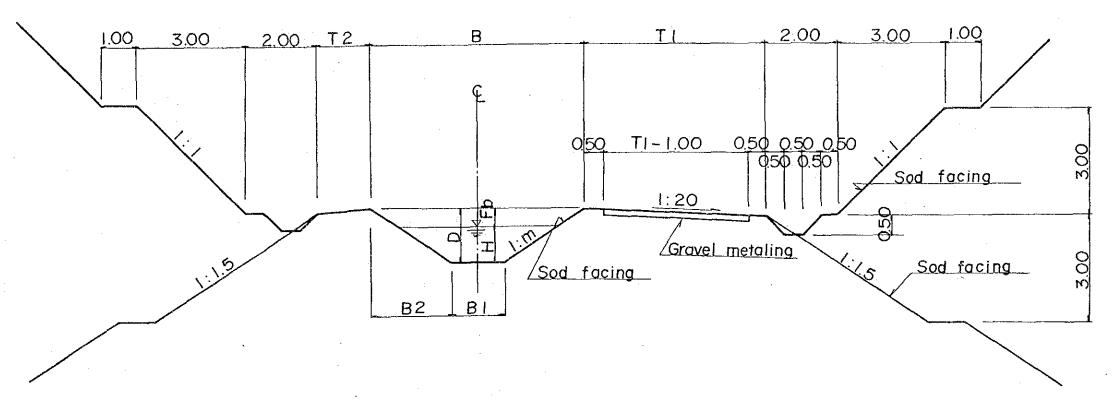
No.	Q	m	Ві	B2	В3	B4	B5	Н	FbI	Fb2	DI	D	I	
140.	m ³ /s		m	m	m	m	m	m	m	m	m	m	m	
	75	<u> </u>						:						
C- 1	9.34	1.5	3.30	9.15	10.90	2.925	0.675	1.65	0.30	0.45	1.95	240	1/5300	
C- 2	7.38	11. 0	2.80	8.35	10.10	2.775	11	1.54	0.31	n	1.85		1/5100	
C-3	4.80	1)	1.80	6.75	8.20	2.475	0.525	1.37	0.28	0.35	1.65		1/4300	
C-4	4.59	tt .	1.70	6.50	7.95	2.400	п	1.35	0.25	11	1.60	1.95	1/4 100	
C-5	3.39	11	1.30	5.80	7. 25	2.250	Et .	1.24	0.26	at .	1.50		1/3900	
C-6	3.16		1.20	5.70	7.15	2.250	н	1.22	0.28	11	1.50	1.85	1/3800	
C-7	2.36	15	1.00	5.20	6.65	2.100	12	1.1	0.29	11	1.40		1/3800	
C-8	2.09	11	1.00	4.90	6.35	1.950	11	1.05	0.25	11	1.30	1.65	1/3800	
	2.00		1.00			 								
				ı			I							

REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
BATANG KUMU IRRIGATION PROJECT
FEASIBILITY STUDY

TYPICAL CROSS SECTION OF THIN CONCRETE LINING CANAL

JAPAN INTERNATIONAL COOPERATION AGENCY DWG. NO.
TOKYO (JICA) 25

EARTH CANAL



Dimension of Earth Canal

No	Q	H	Fb	D	BI	m	B2	В	TI	T2	Ī
	m^3/s	m	m	m	m		m	m	m	m	
								,			
s-I	1.66	1.00	0.60	1.60	2.00	1.5	2.400	6.80	5.00	3.00	1/3800
5-2	1.38	0.95	0.50	1.45	1.80	1)	2.175	6.15	13	n	11
5-3	1.06	0.90	0.50	1.40	1.40	11	2.100	5.60	ii .	2.00	11
5-4	1.01	0.89	0.51	1.40	1.30	n	2.100	5.50	11	11	1/3600
S-5	0.76	0.82	0.53	1.35	1.10	* H	2.025	5.15	3.00	11	1/2900
S-6	0.71	0.81	0.54	1.35	1.00	1)	2.025	5.05	11	13	1/2700
5-7	0.66	0.79	0.51	1.30	1.00	I)	1.950	4.90	11	16	1/2900
5-8	0.53	0.74	0.51	1. 25	0.90	11	1.875	4.65	11	11	1/3100
S-9	0.45	0.71	0.44	1.15	0.80	Ü	1.725	4.25	11	11	1/3100
5-10	0.39	0.68	0.42	1.10	0.70	H	1.650	4.00	11	11	1/3000
S-11	0.24	0.60	0.40	1.00	0.60	1.0	1.500	3.60	51		1/2300

REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
BATANG KUMU IRRIGATION PROJECT

TYPICAL CROSS SECTION OF EARTH CANAL

FEASIBILITY STUDY

JAPAN INTERNATIONAL COOPERATION AGENCY DWG. NO. 10KYO (JICA) 26

