

FIGURE



Fig. 3-1 FLOW REGIME AT TANGKULAP

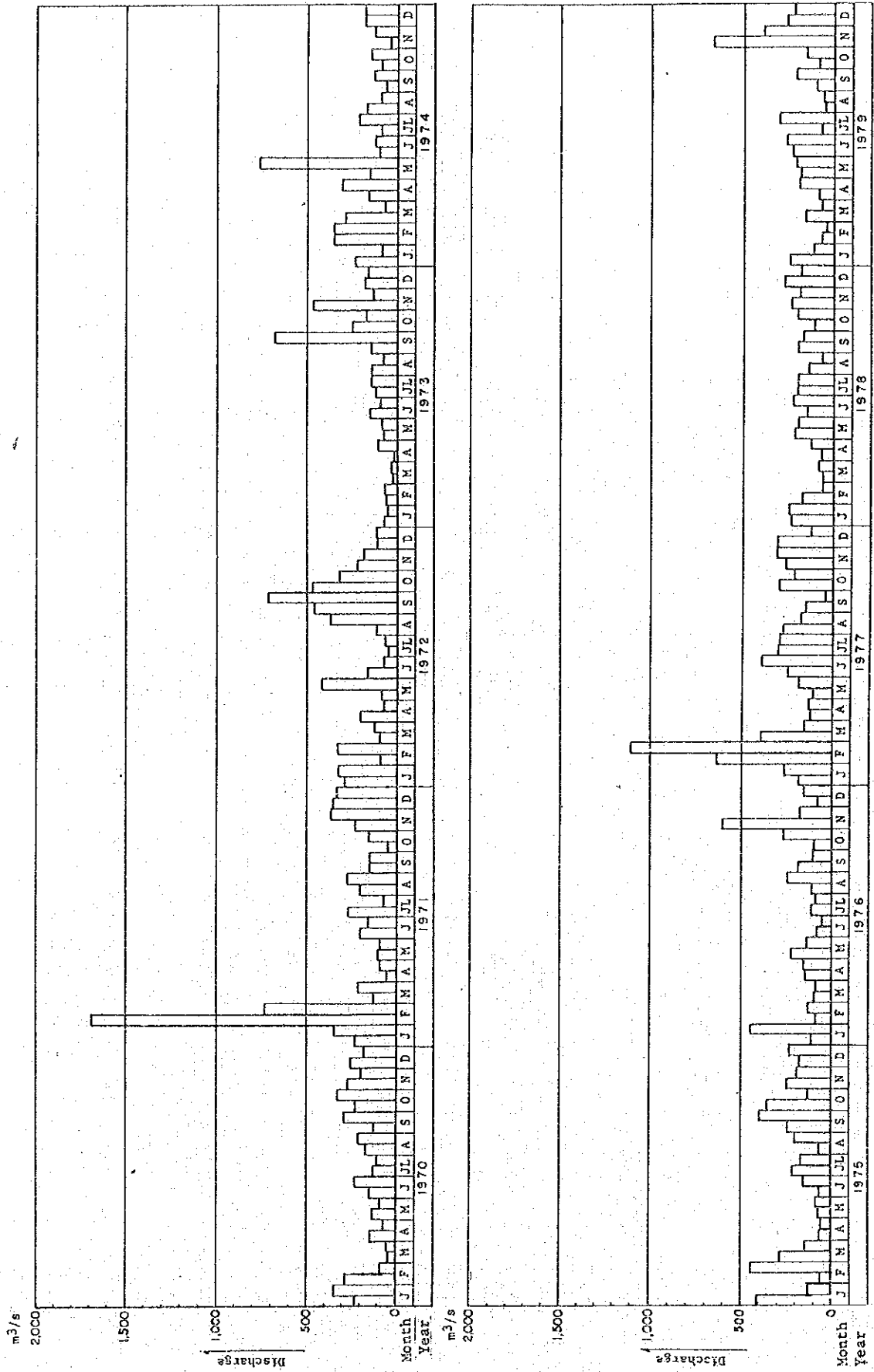
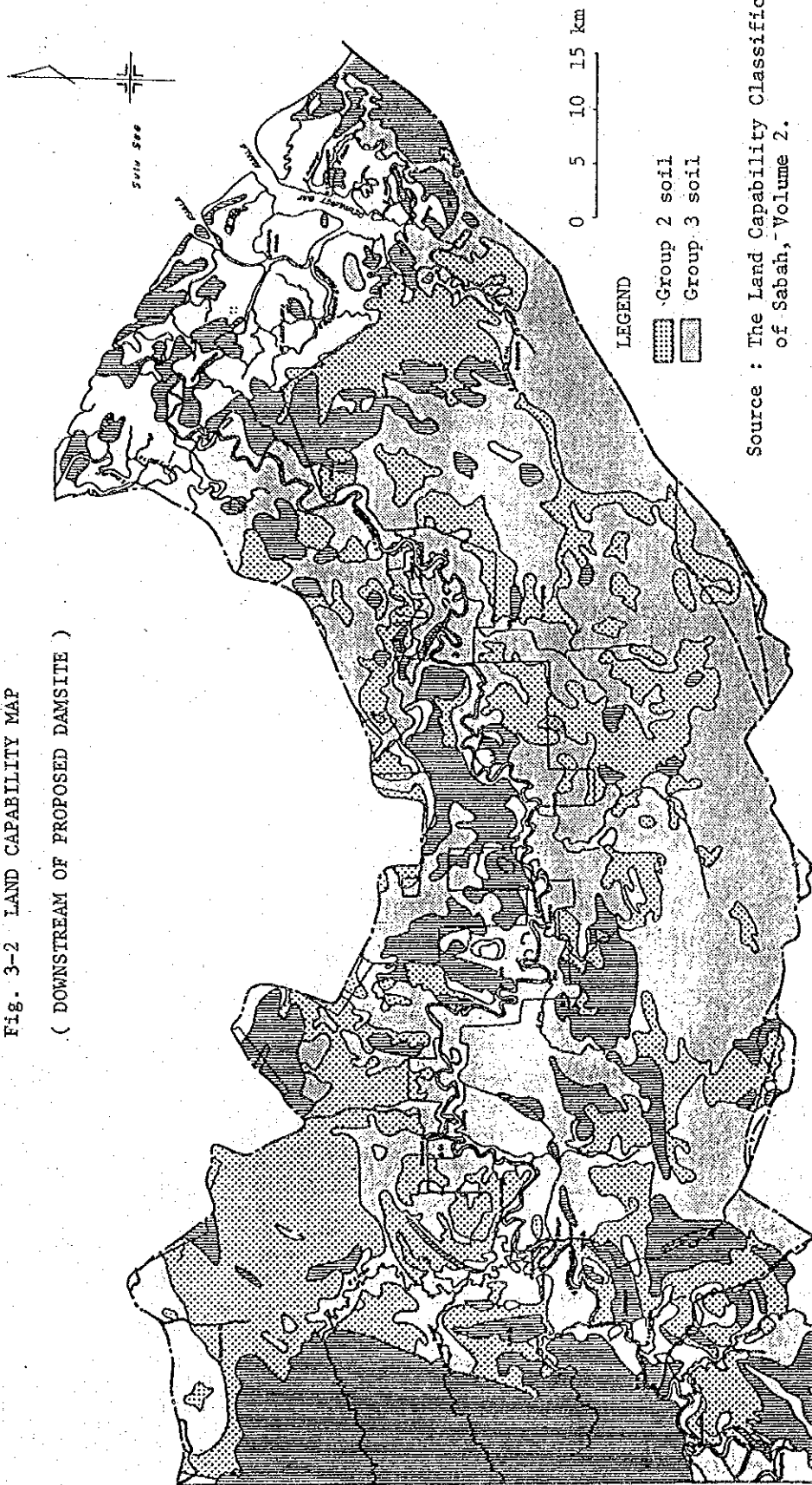


Fig. 3-2 LAND CAPABILITY MAP
(DOWNSTREAM OF PROPOSED DAMSITE)



Source : The Land Capability Classification
of Sabah, - Volume 2.

Fig. 3-4 CHANNEL WIDTH DISTRIBUTION

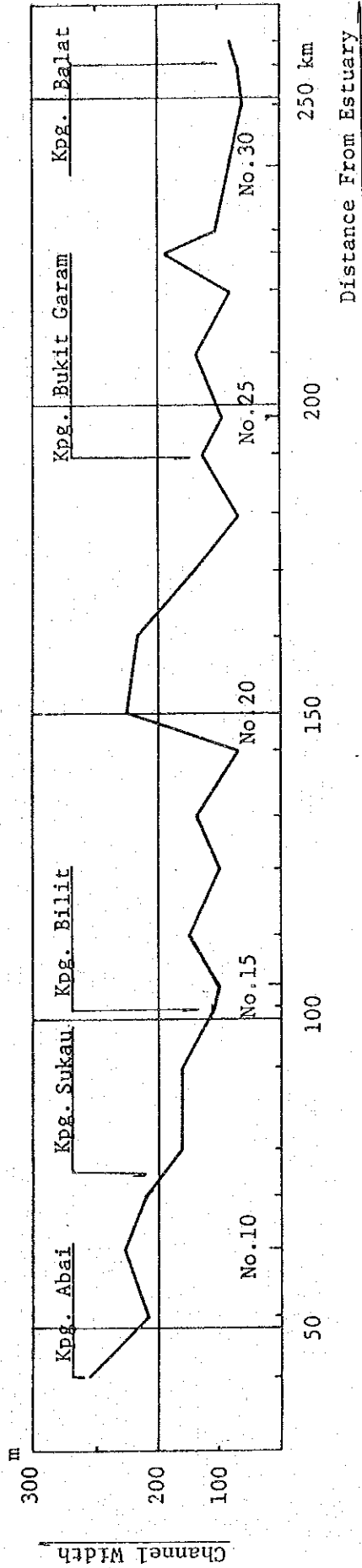
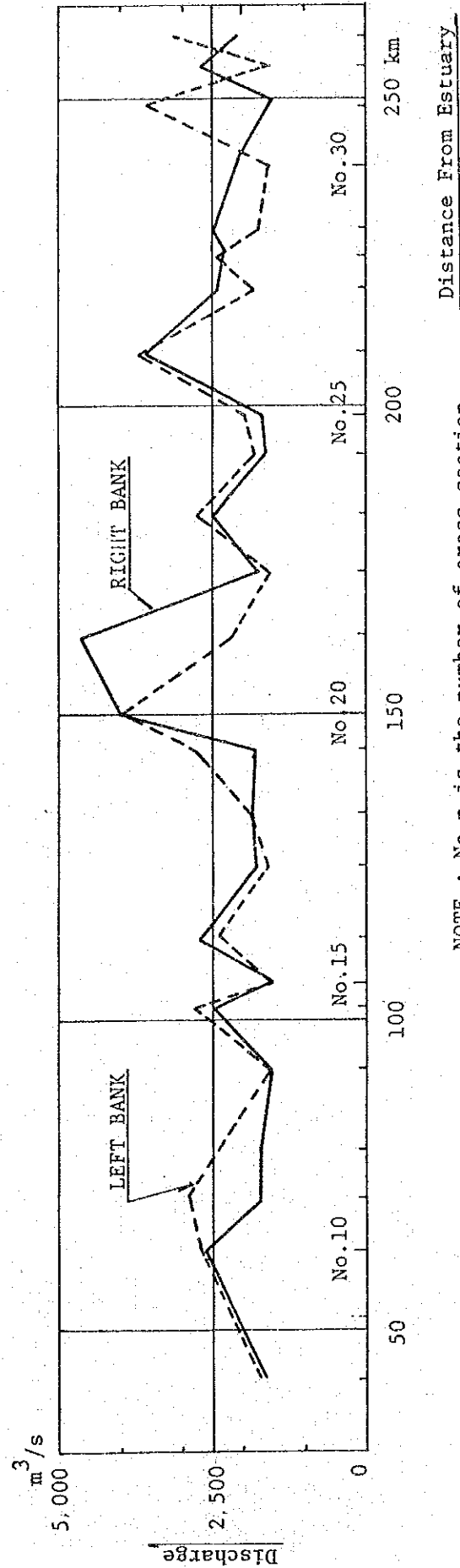


Fig. 3-5 PRESENT FLOW CAPACITY



NOTE : No.n is the number of cross-section.

Distance From Estuary

Fig. 3-6 INUNDATION AREA IN THE LOWER BASIN

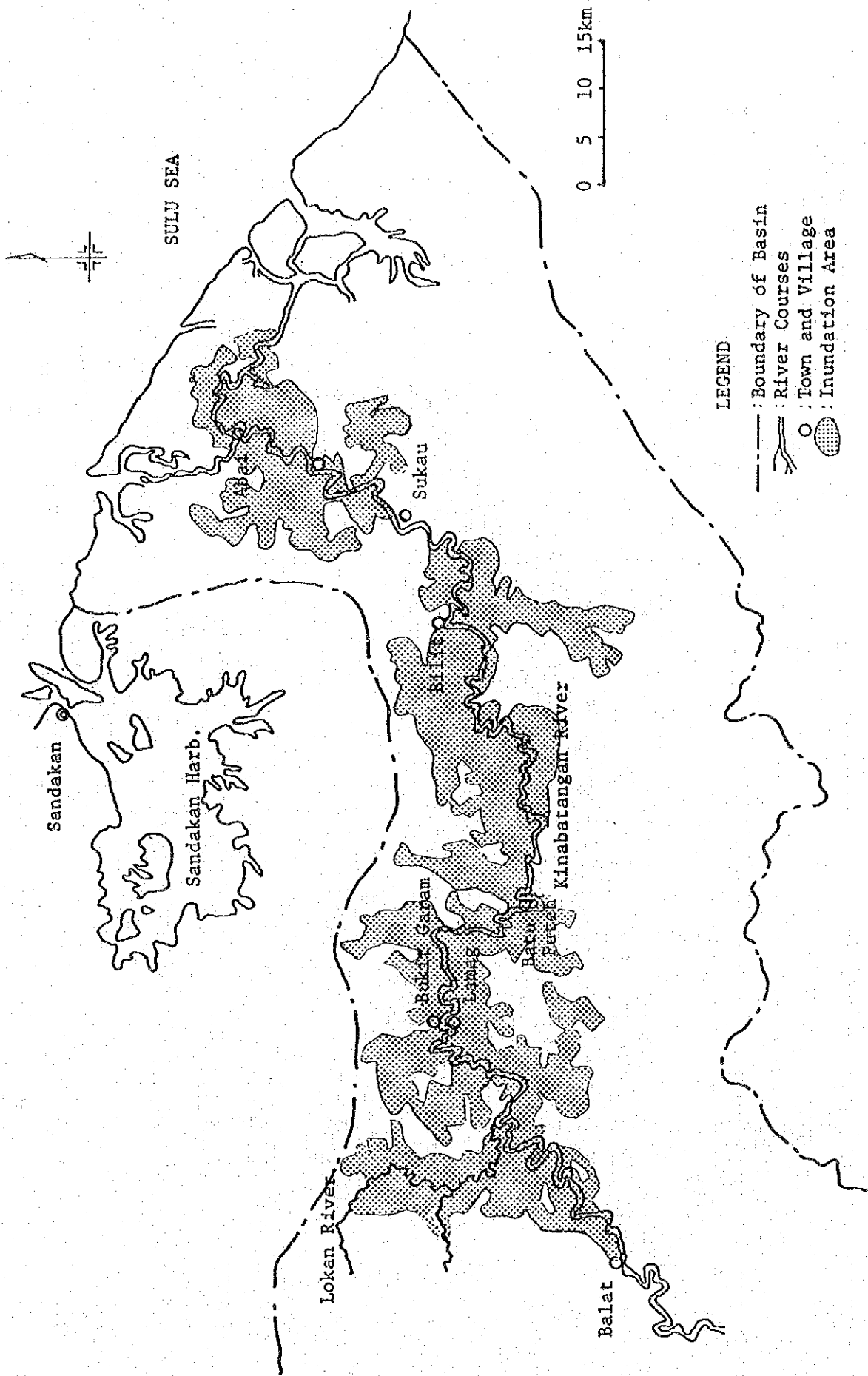


Fig. 3-7 PRESENT CROPPING PATTERN

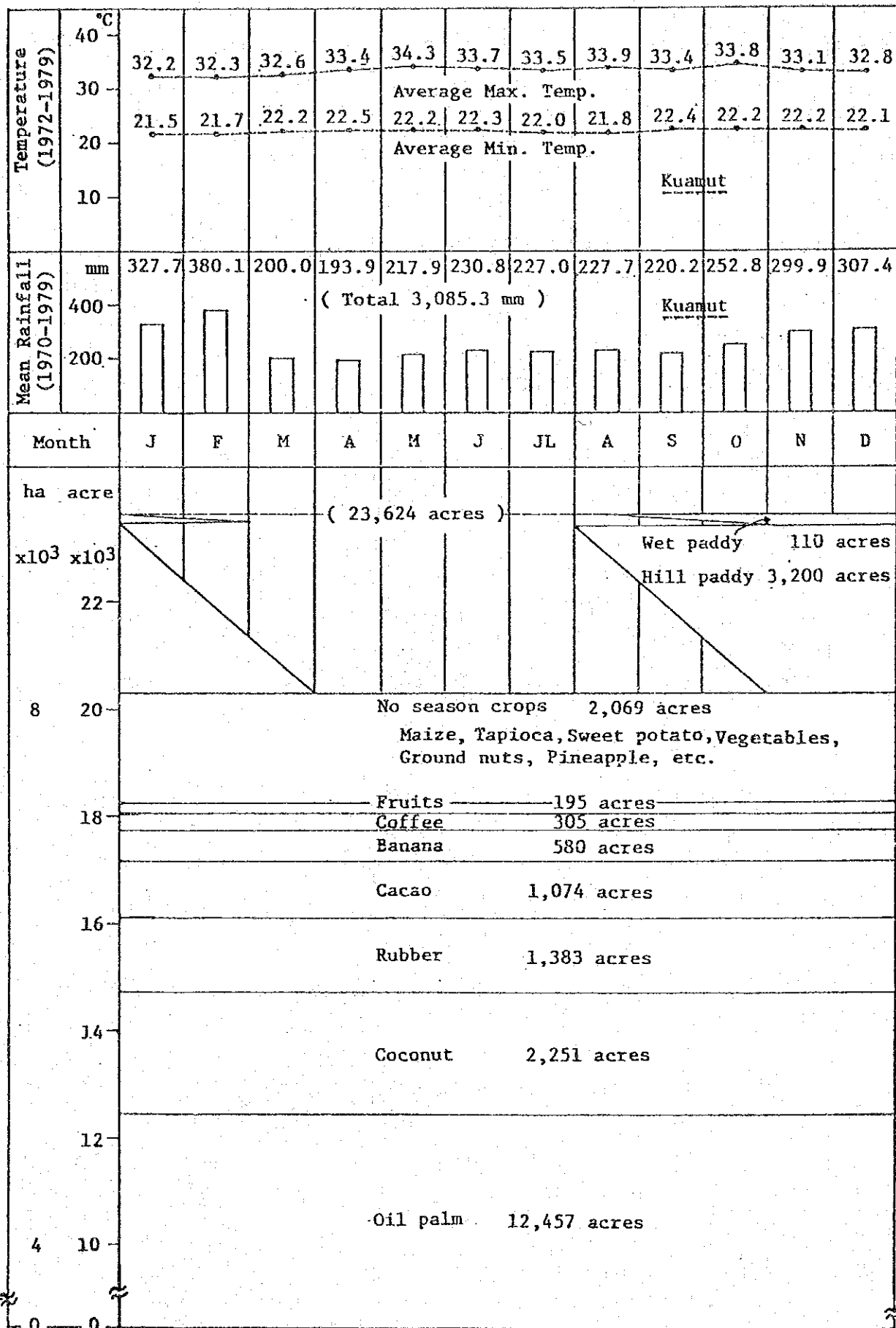


Fig. 3-9 SABAH GENERATING STATIONS, 1978

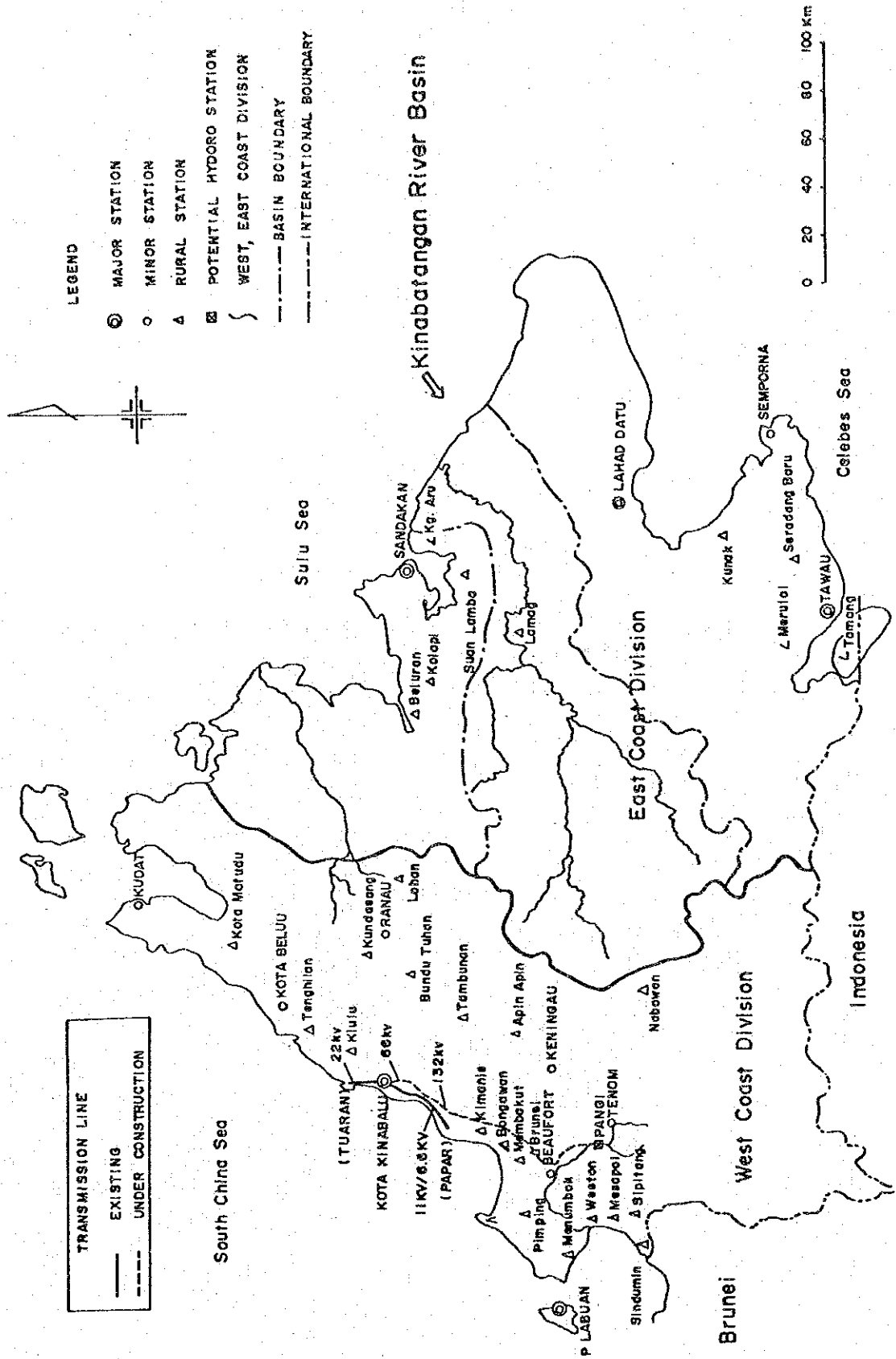


Fig. 3-10 DAIRY LOAD CURVE OF SANDAKAN

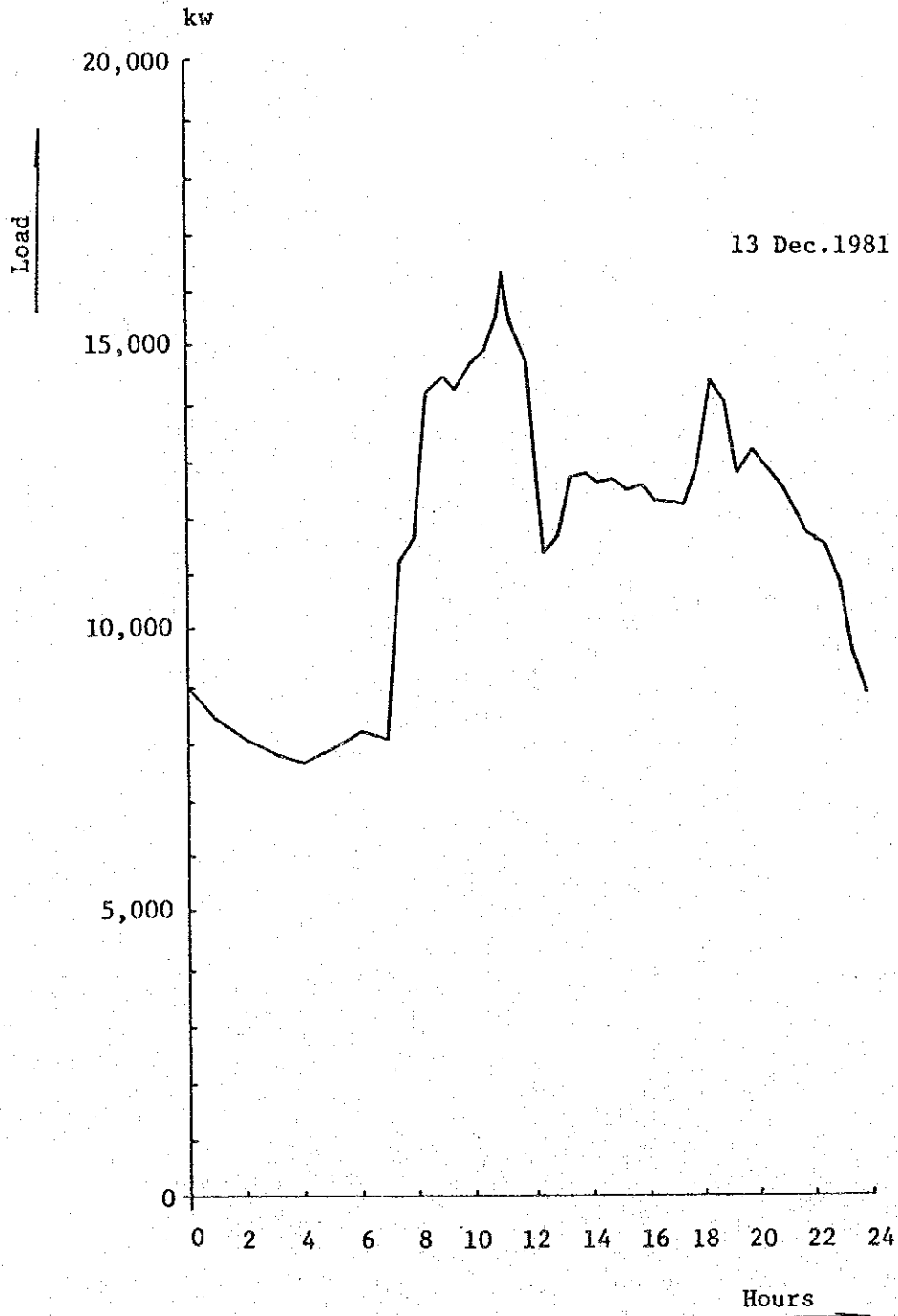
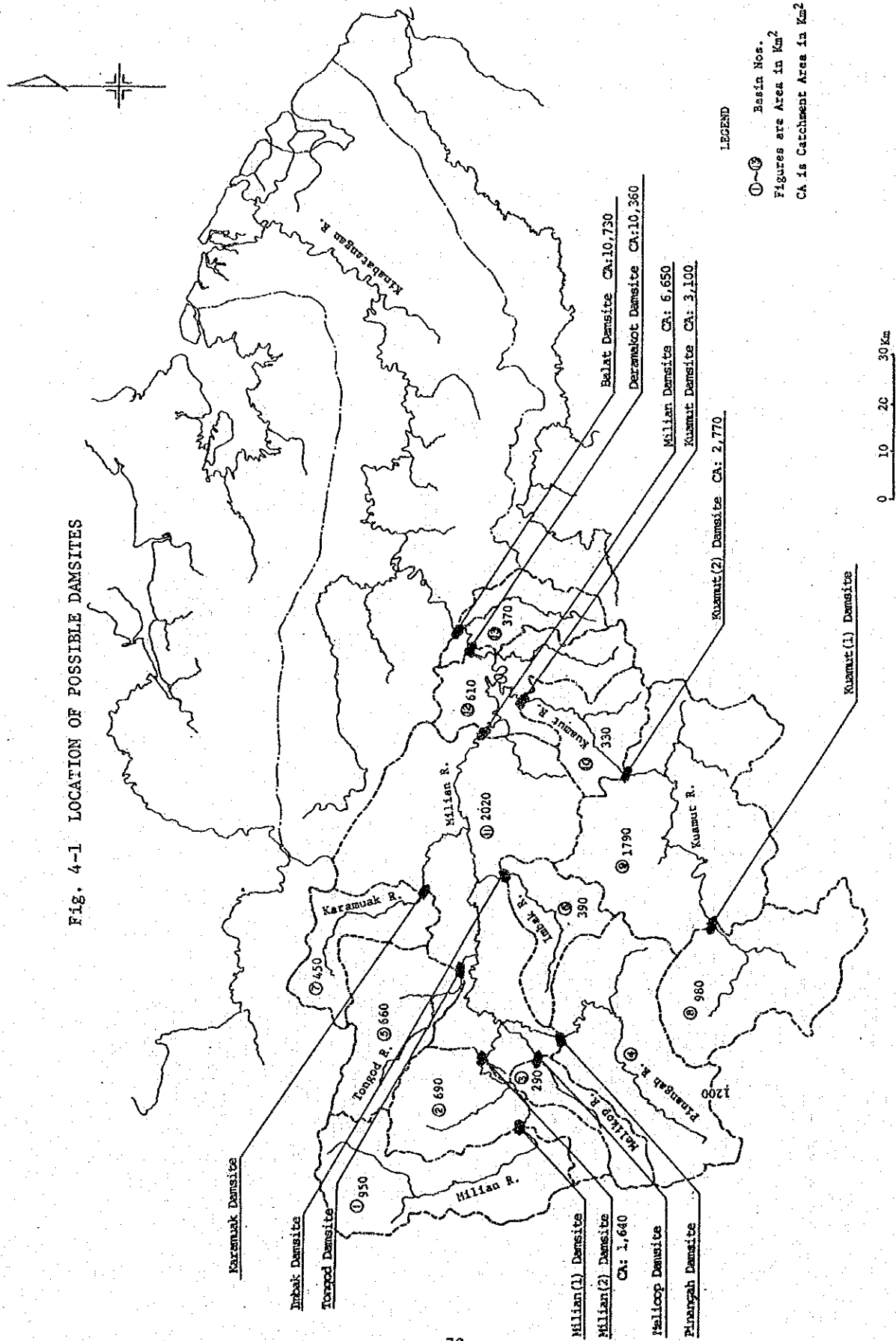


FIG. 4-1 LOCATION OF POSSIBLE DAMSITES



LEGEND
 ①-⑥ Basin Nos.
 Figures are Area in Km²
 CA is Catchment Area in Km²

Fig. 4-2 DISTRIBUTION OF KAMPUNG BY GROUND HEIGHT

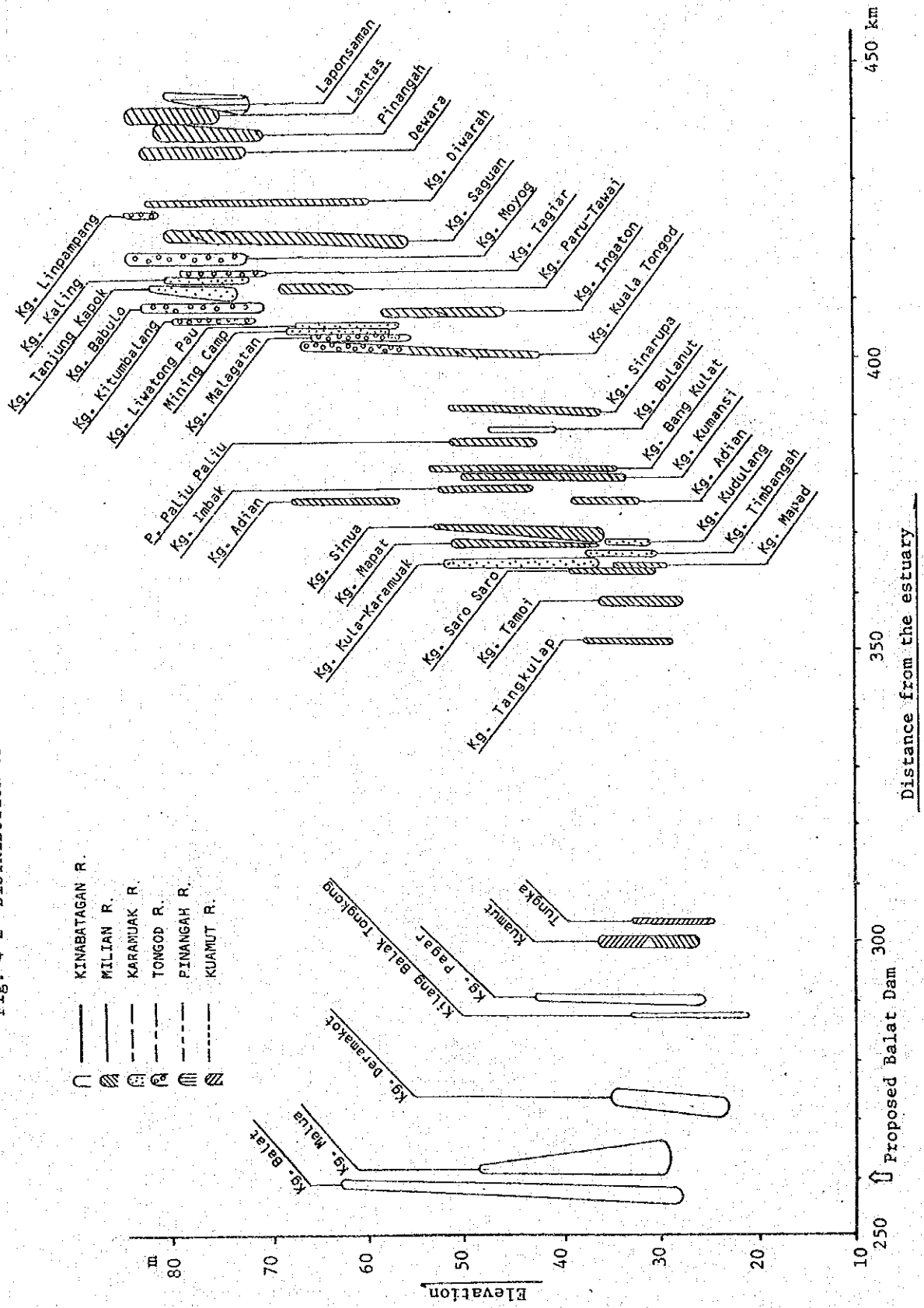


Fig. 4-3 SUBMERGED AREA BY BALAT DAM

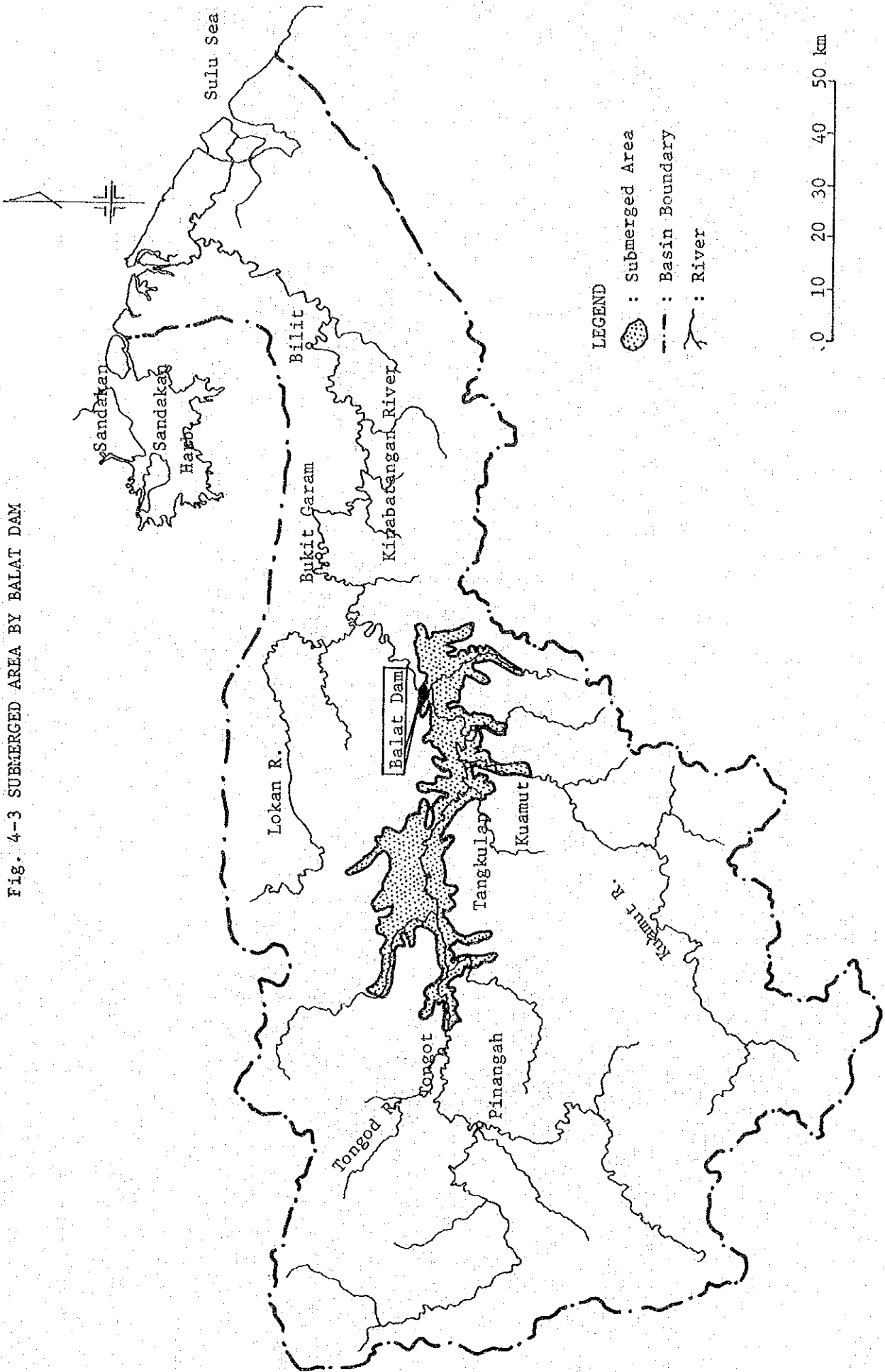


Fig. 4-4 ALLOCATION OF RESERVOIR STORAGE CAPACITY

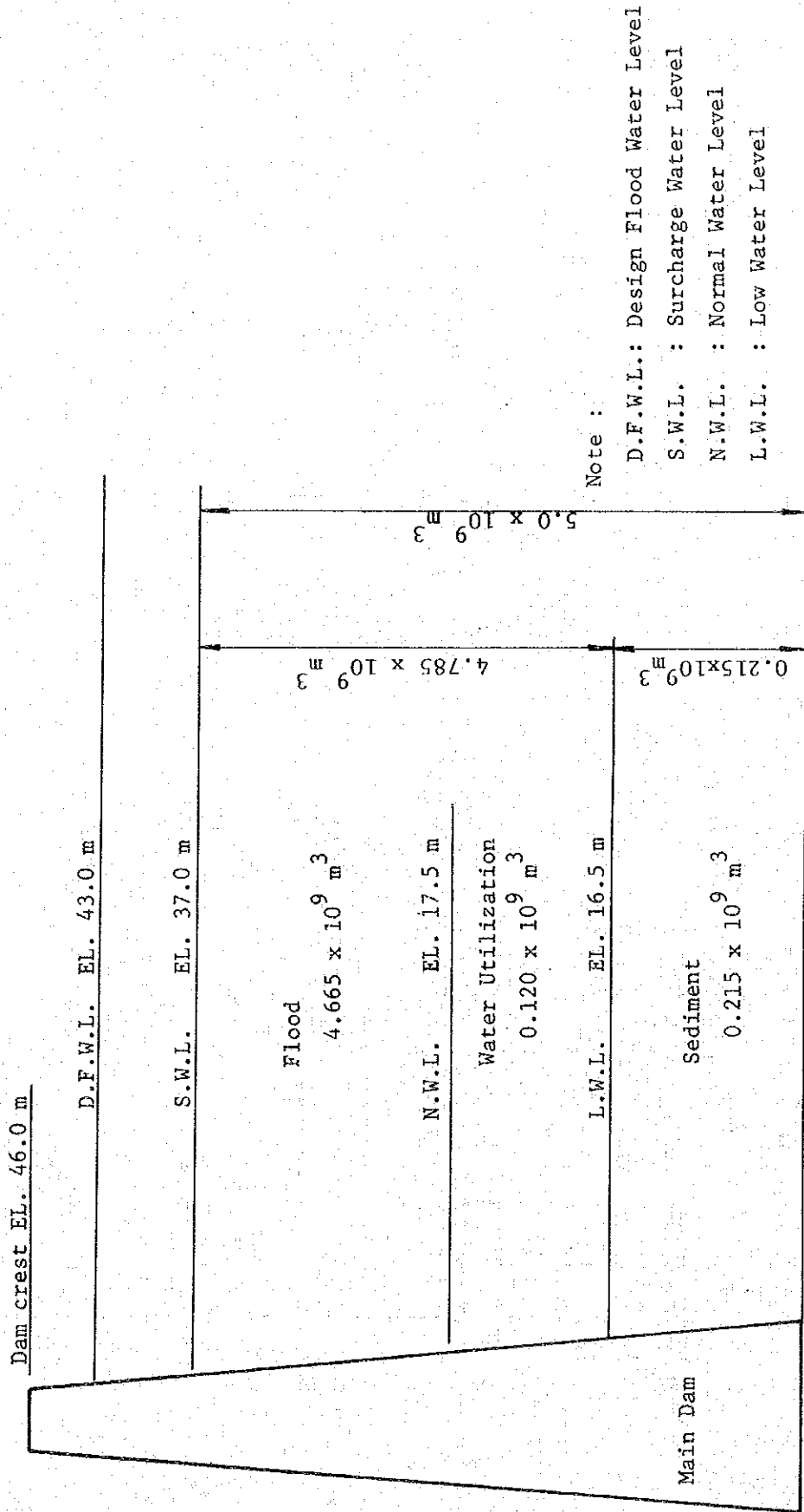


Fig. 4-5 DISTRIBUTION OF STANDARD PROJECT AND DESIGN FLOOD DISCHARGE

Unit : m³/s

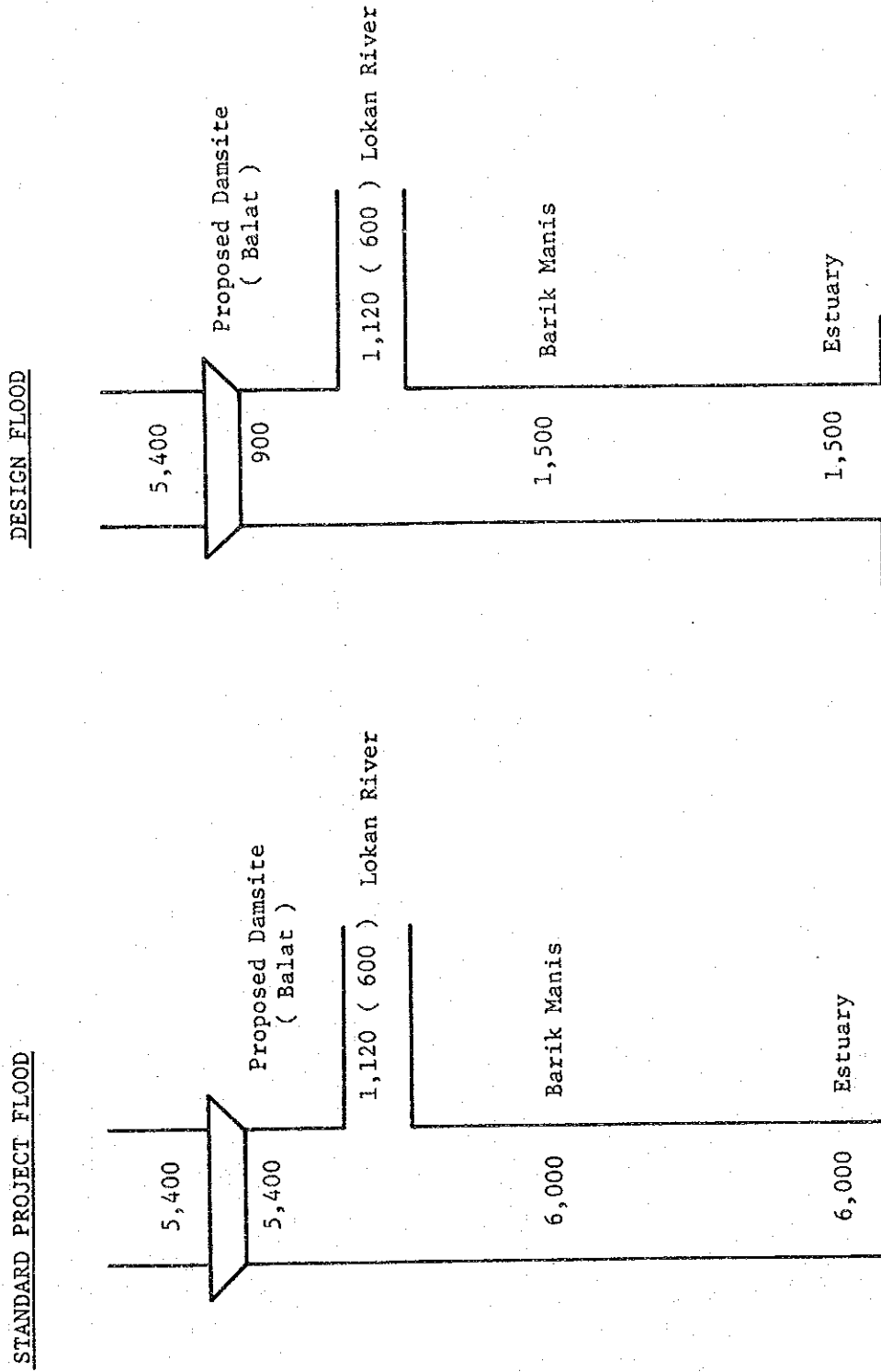


Fig. 4-6 HYDROGRAPHS OF STANDARD PROJECT AND DESIGN FLOOD

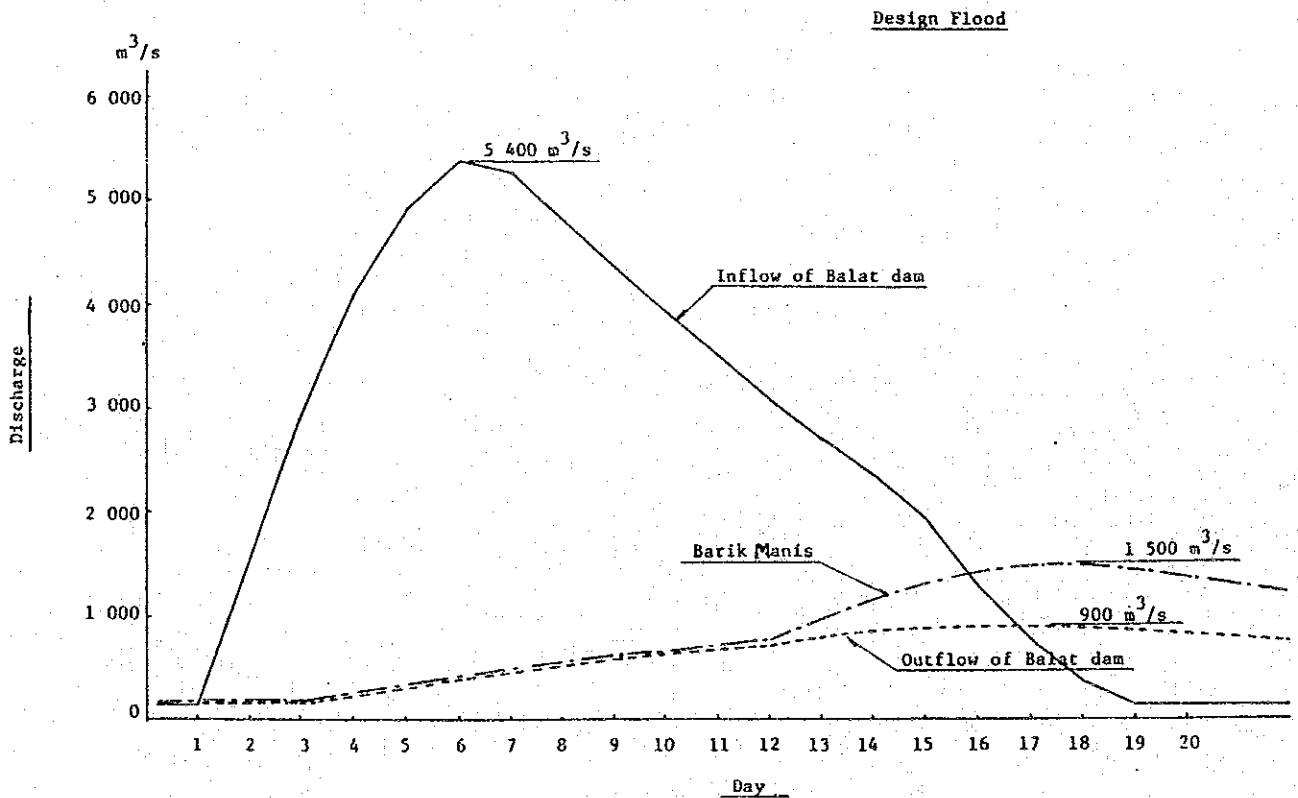
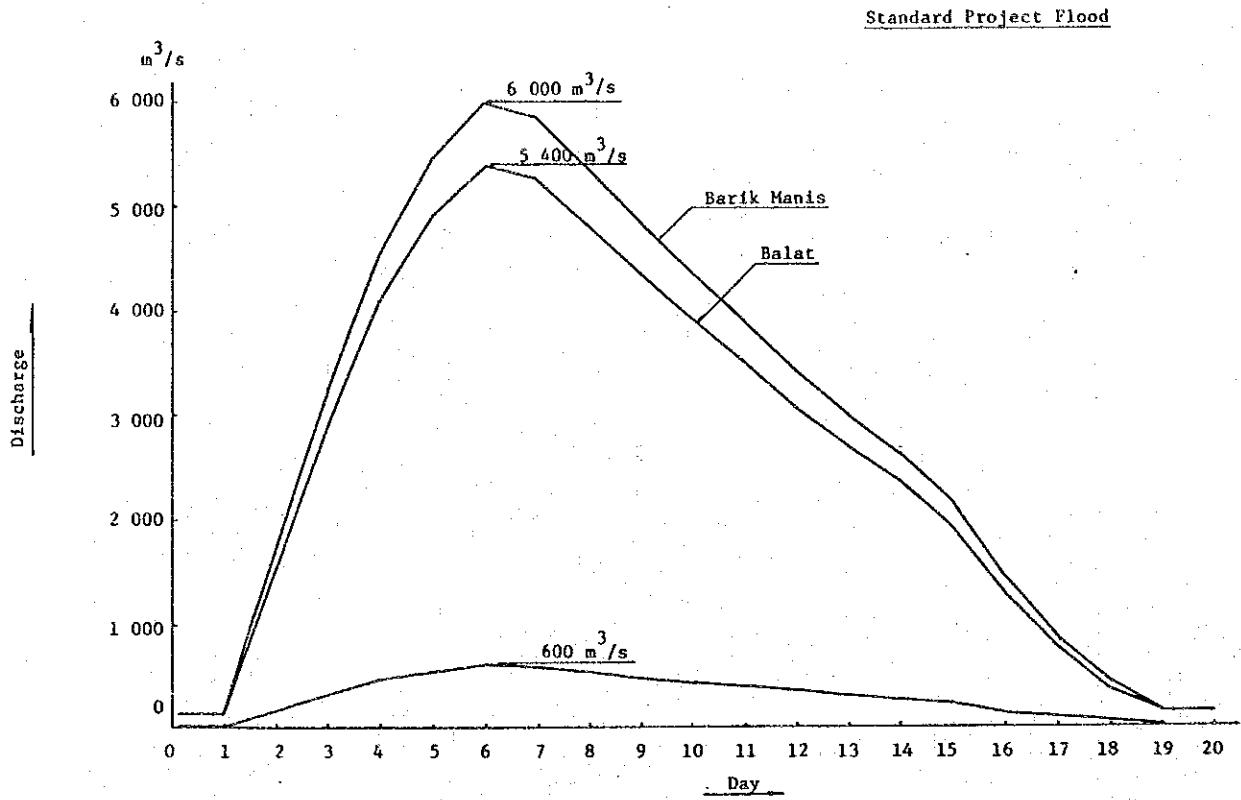


Fig. 4-7 LEAST CONSTRUCTION COST OF DAM AND RIVER IMPROVEMENT

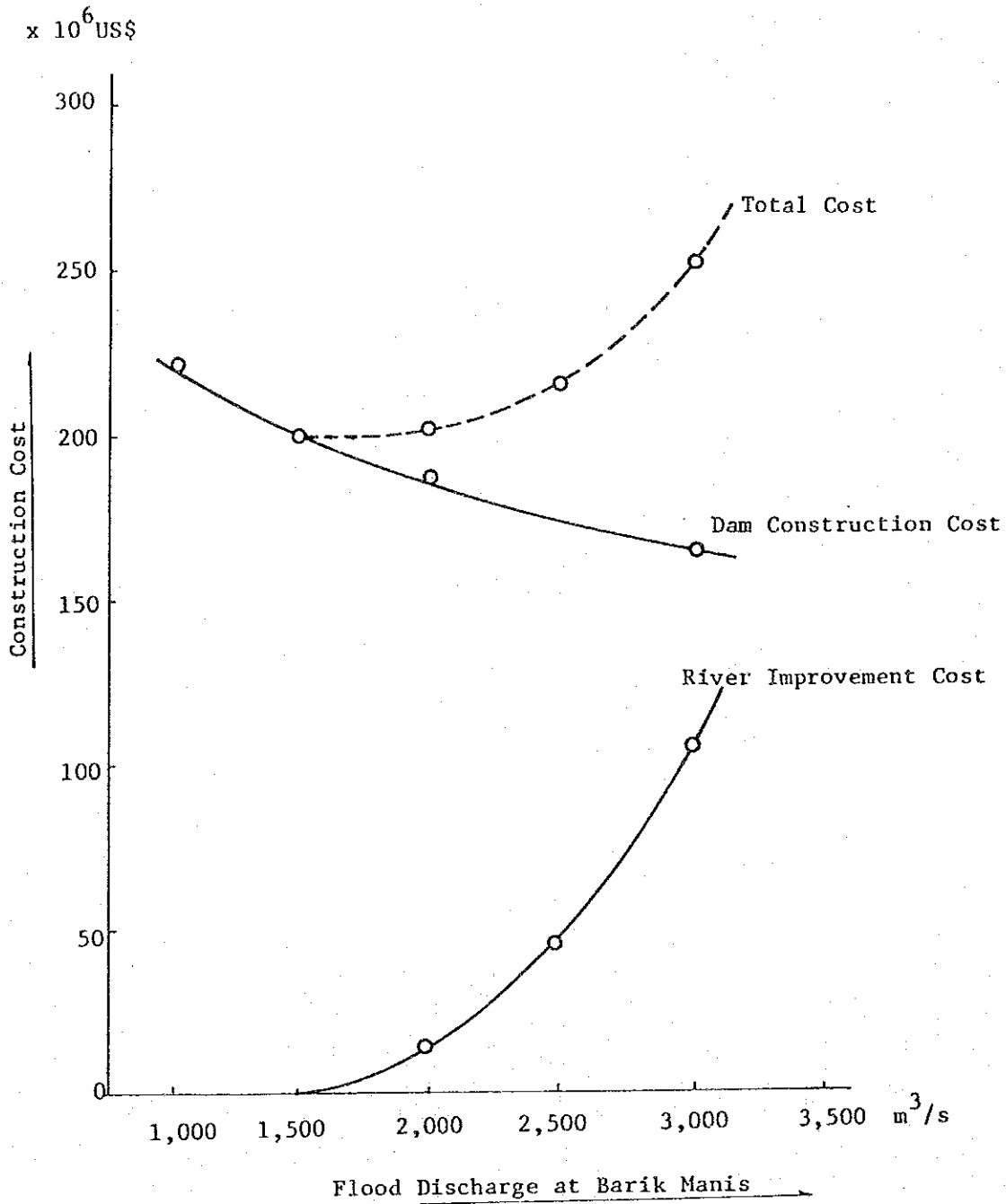


Fig. 4-8 POTENTIAL AGRICULTURAL DEVELOPMENT AREA

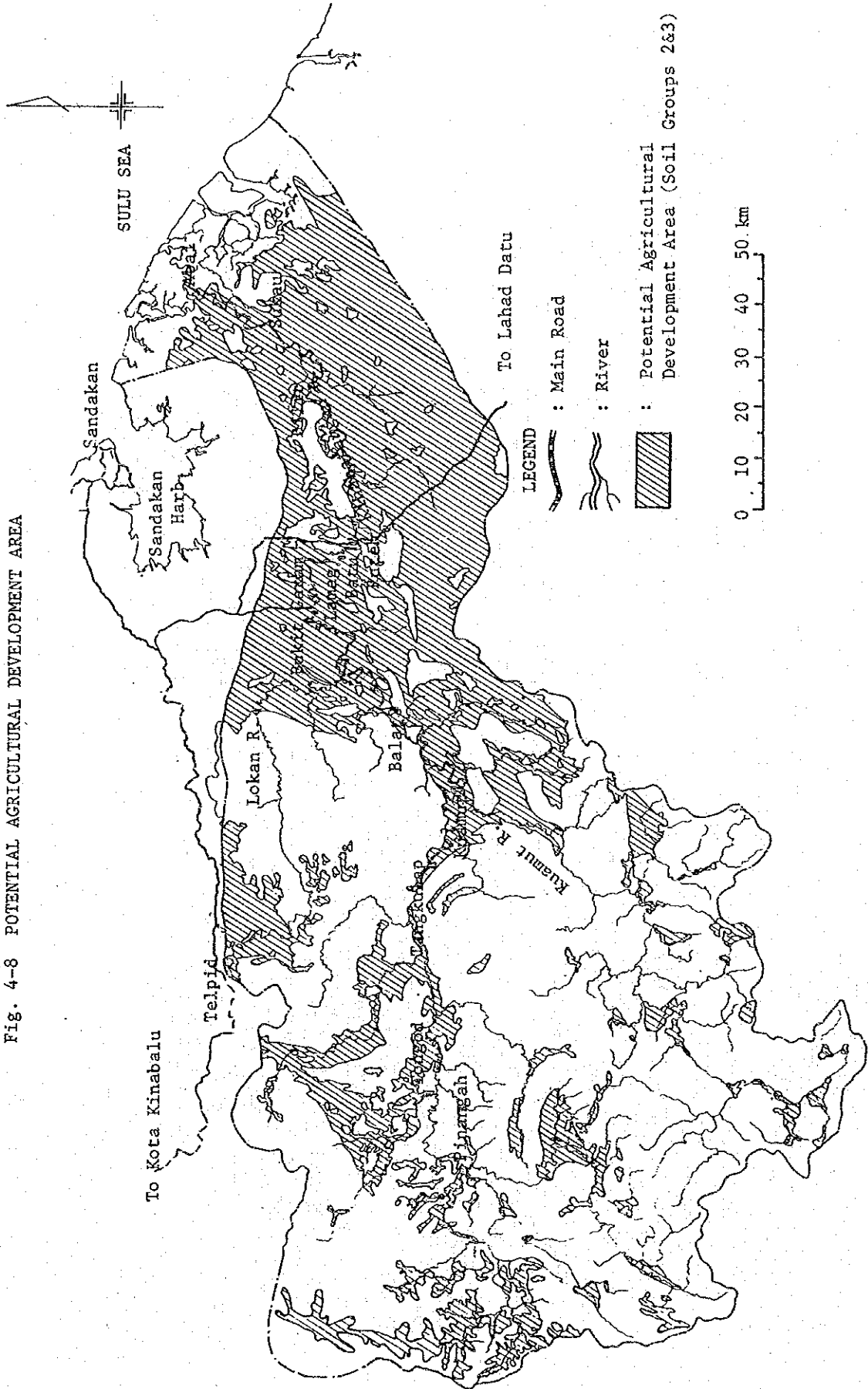


Fig. 4-9 PROPOSED AGRICULTURAL DEVELOPMENT AREA

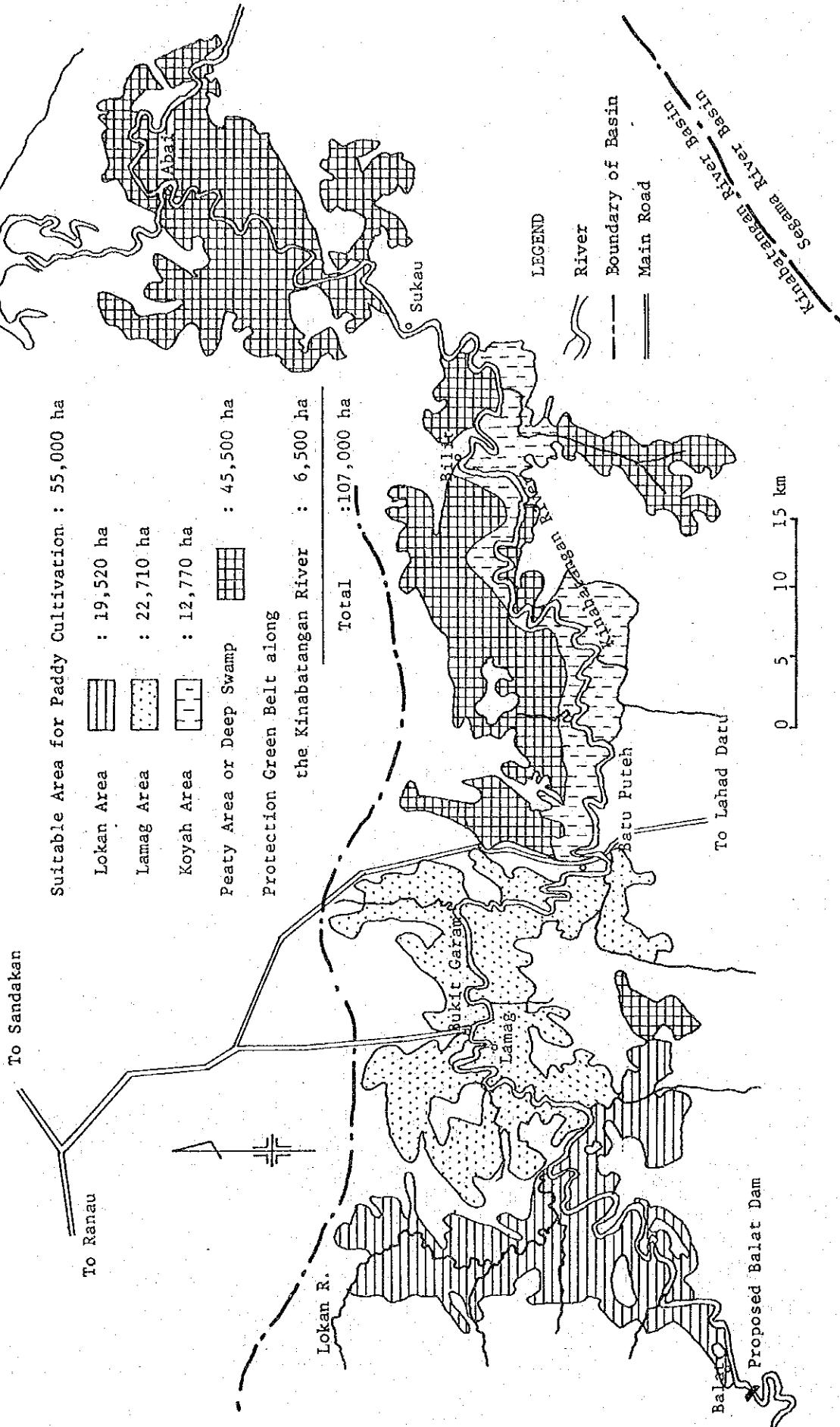
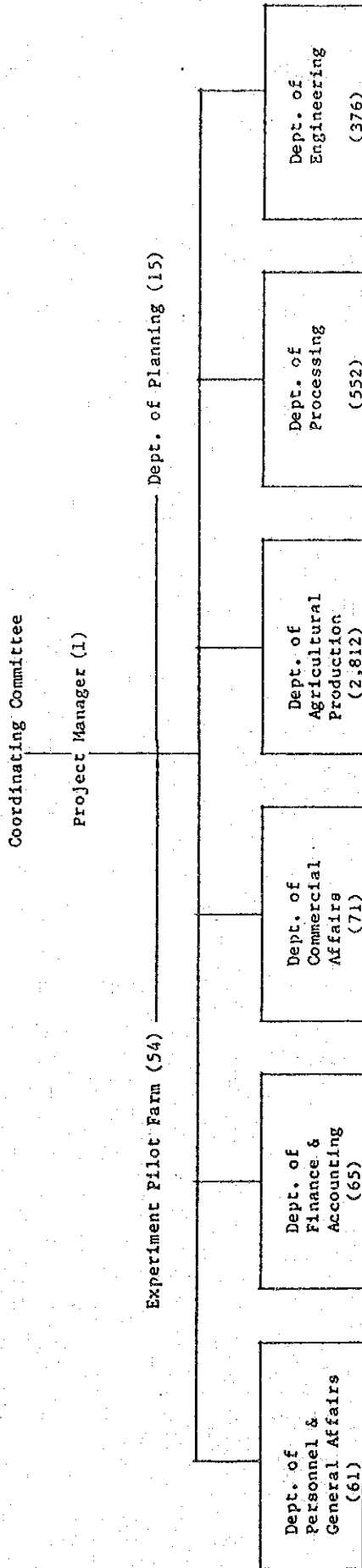


Fig. 4-10 FARMING ORGANIZATION



Note : Total required manpower would be 4007.

() ; Number of required staff.

Fig. 4-11 PROPOSED CROPPING PATERN AND METEOROLOGICAL CONDITION

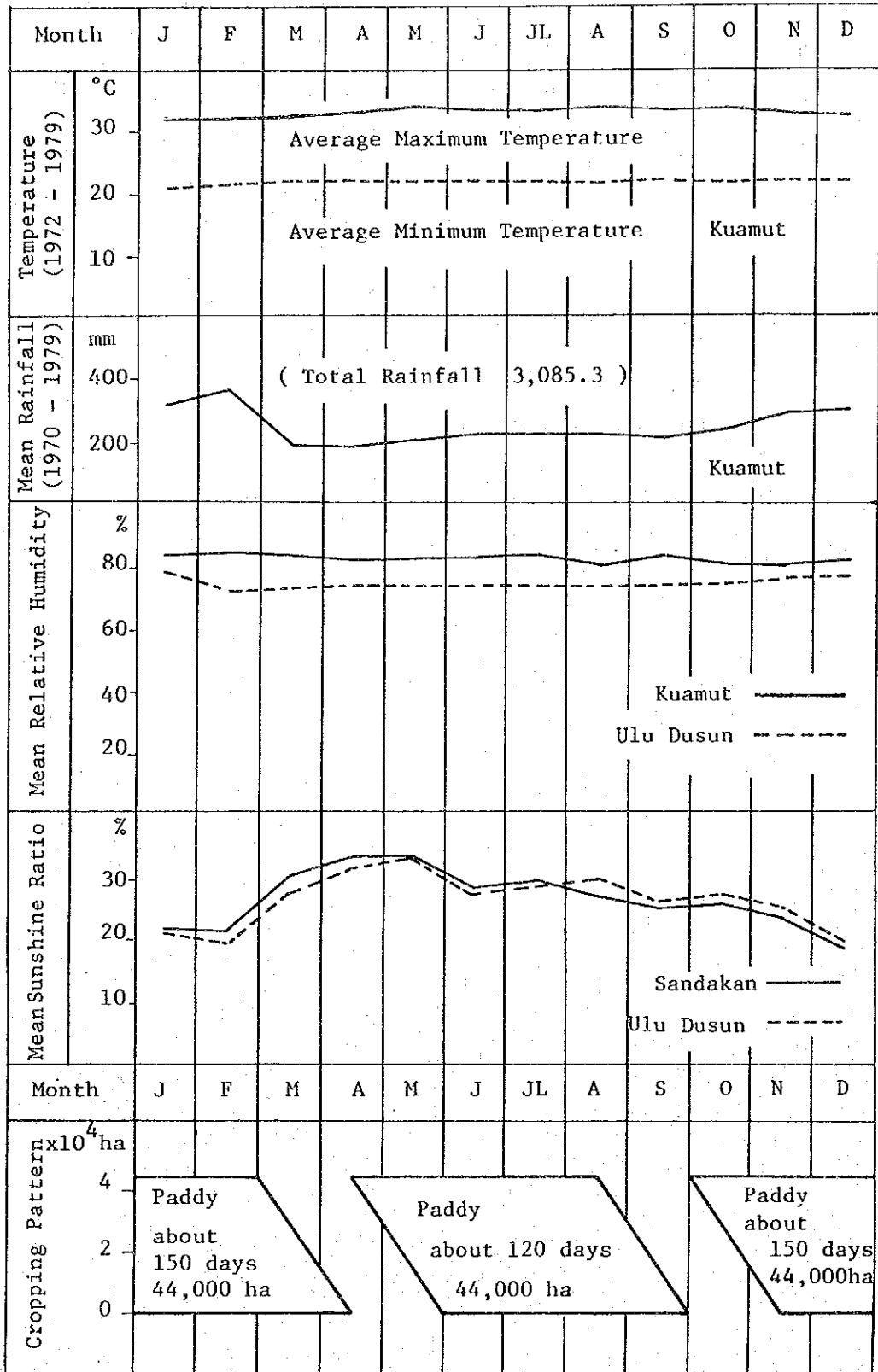


Fig. 4-12 PROPOSED AREA FOR PADDY DEVELOPMENT

Lokan Area :		Lamag Area :		Koyah Area :		LEGEND	
Block No.	Area (ha)	Block No.	Area (ha)	Block No.	Area (ha)	○	Block Number (23 blocks)
1	860	10	1,860	17	2,160	●	Proposed Rice Mill (11 places)
2	960	11	2,960	18	1,010	★	Proposed Pumping Station (23 stations)
3	2,750	12	4,240	19	1,000		
4	3,780	13	2,780	20	1,860		
5	1,130	14	2,120	21	1,180		
6	2,220	15	2,960	22	1,610		
7	1,880	16	1,240	23	1,390		
8	1,240						
9	810						
Total	15,630	Total	18,160	Total	10,210		

Proposed area for paddy development : 44,000 ha.

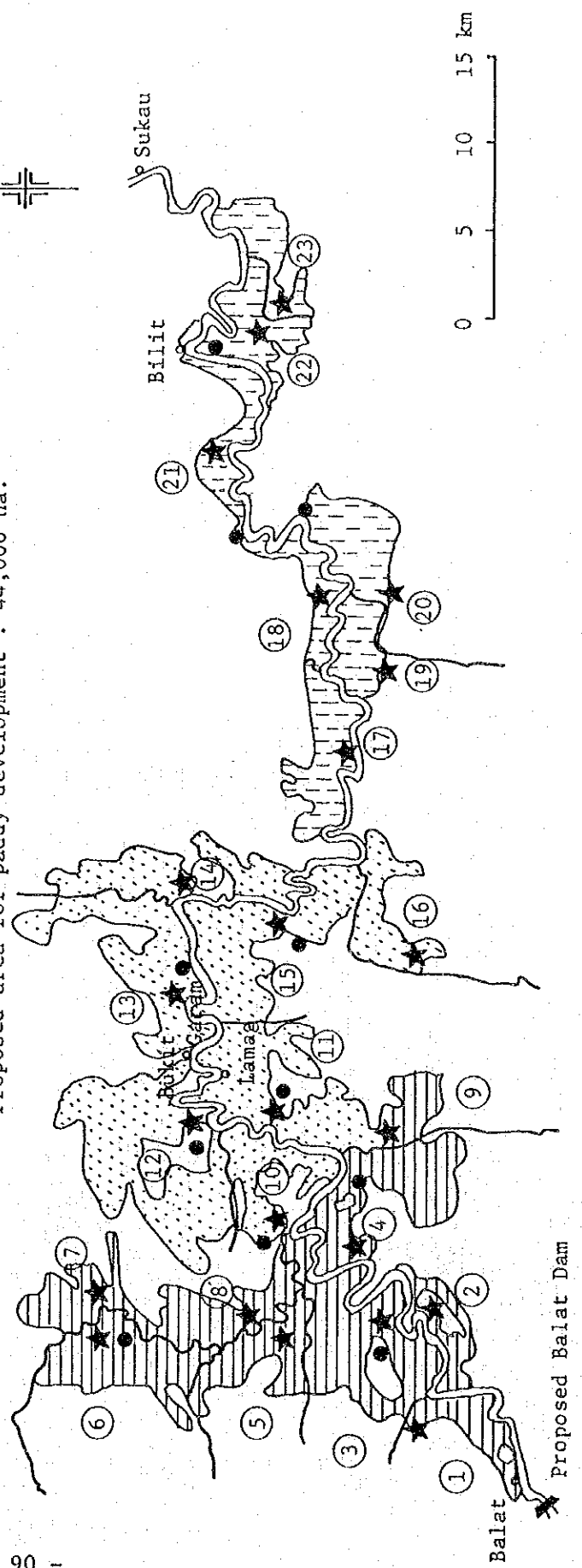


Fig. 4-13 REQUIRED RESERVOIR CAPACITY FOR WATER REQUIREMENT

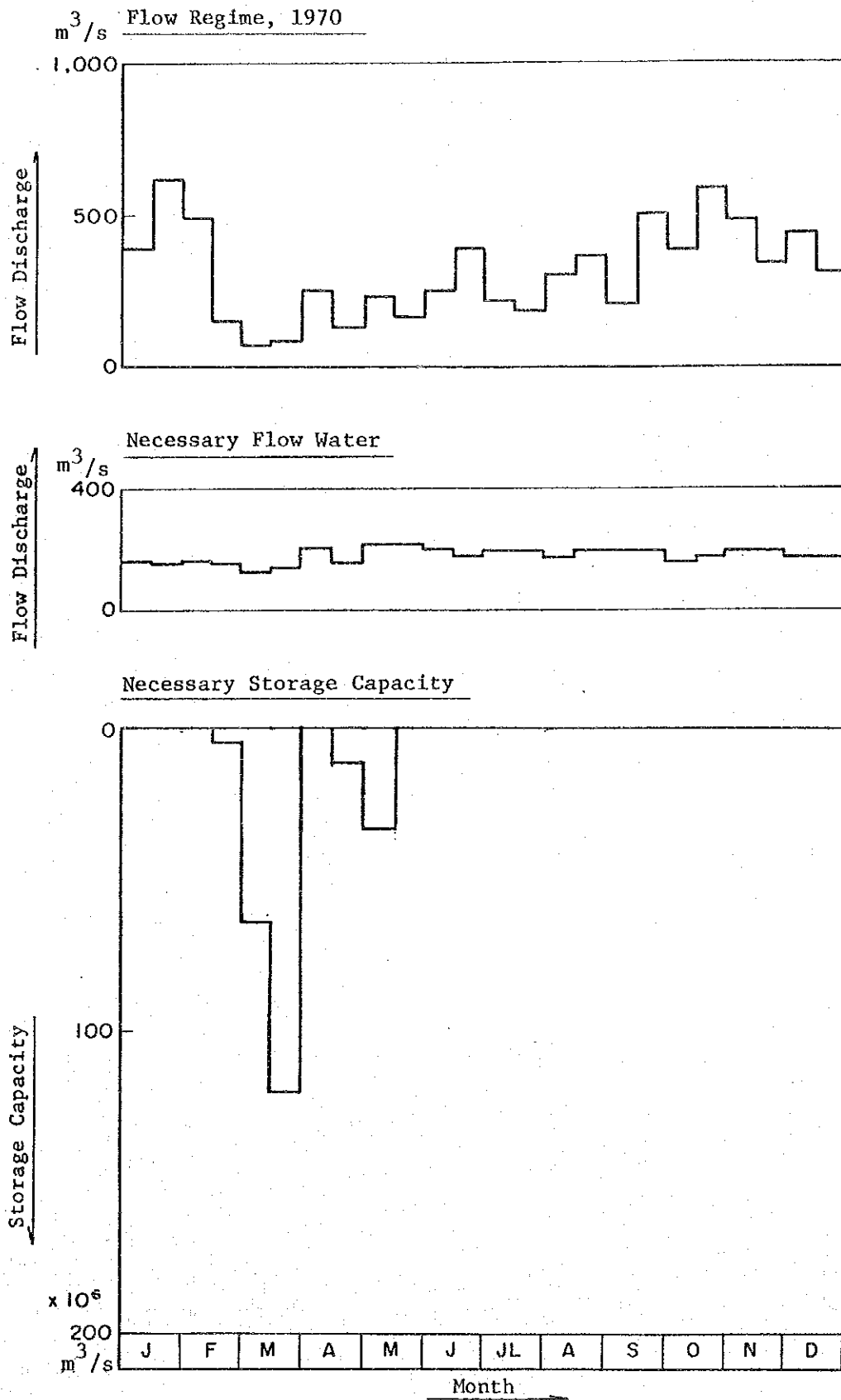


Fig. 4-14 FLOW DIAGRAM OF MAXIMUM DIVERSION REQUIREMENT

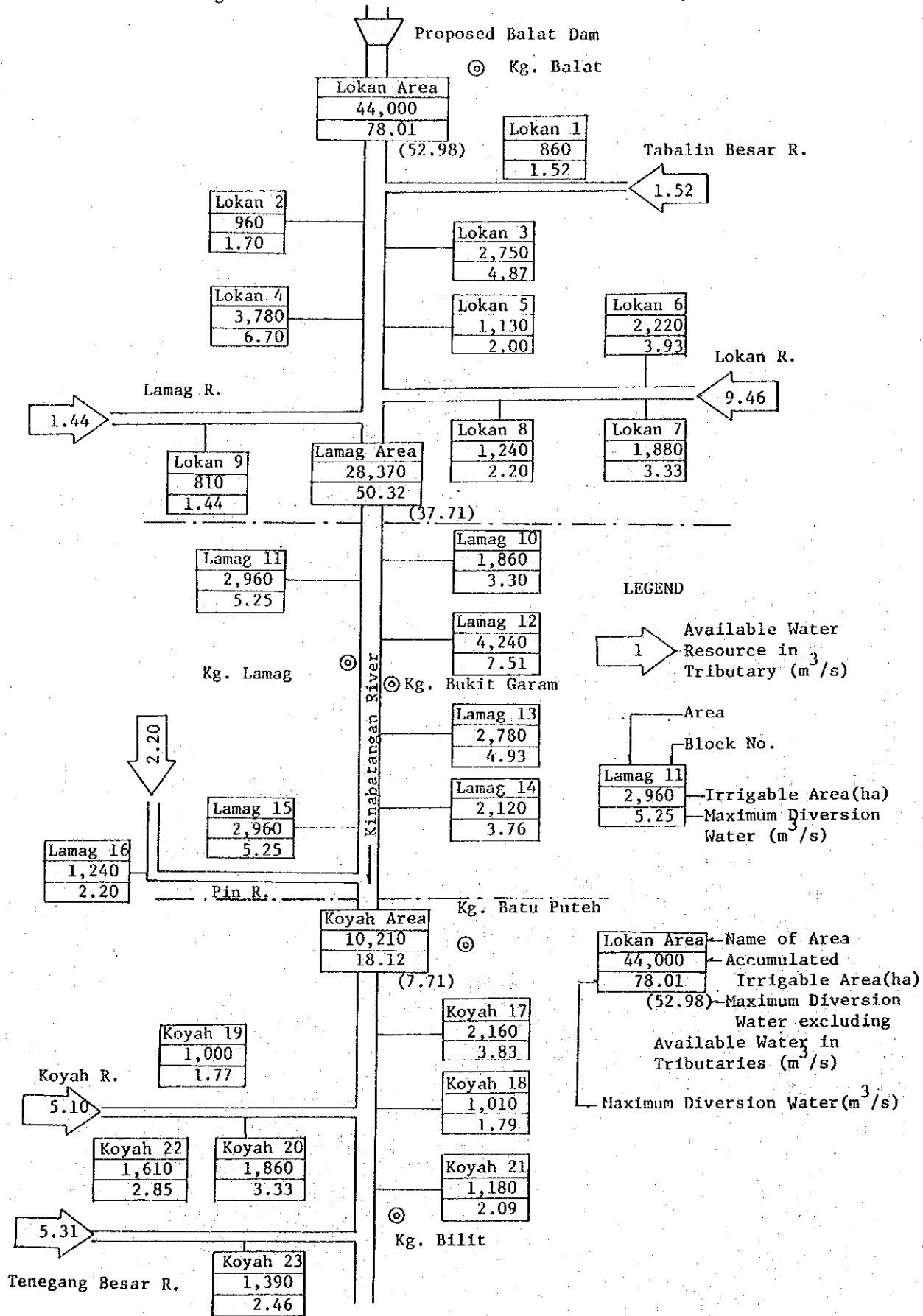


Fig. 4-15 COMPARISON OF GENERATING TYPE

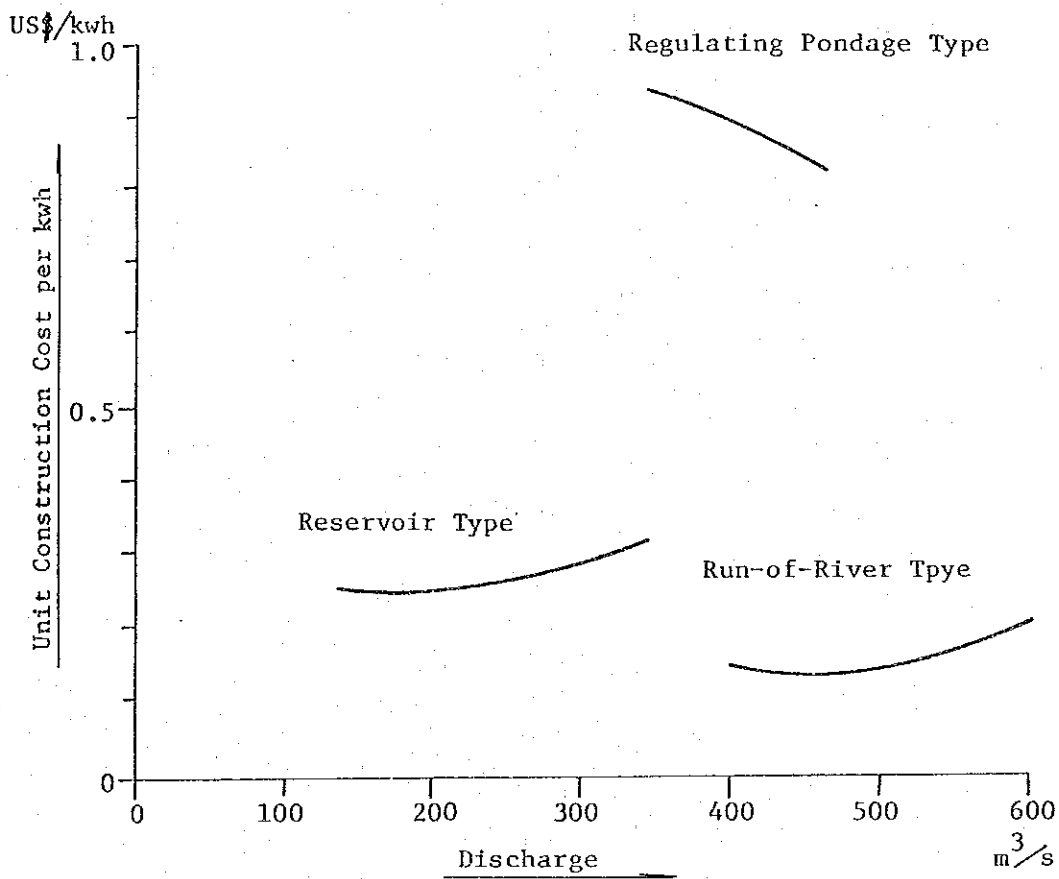


Fig. 4-16 ROUTE MAP OF TRANSMISSION LINE

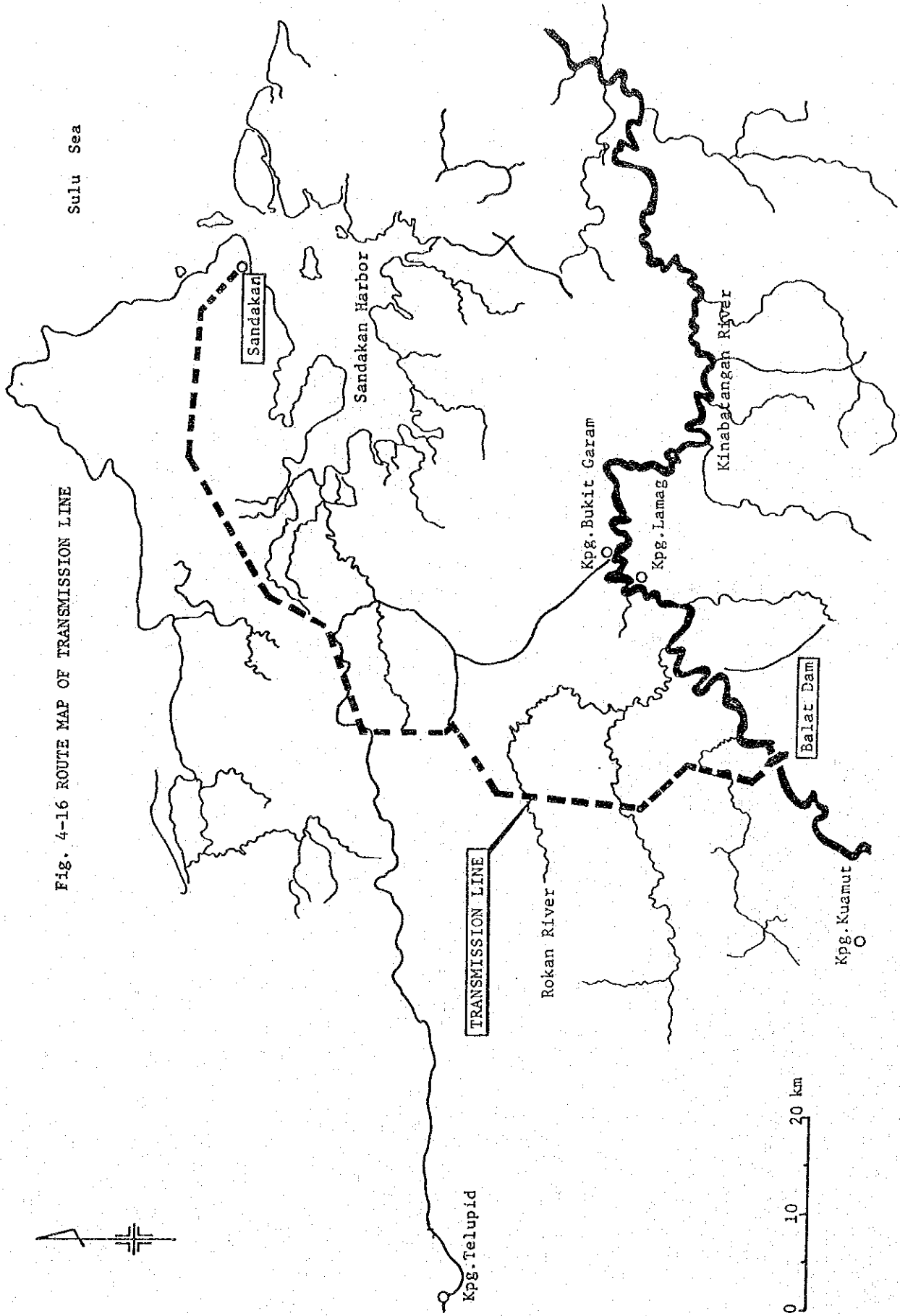


Fig. 5-1 PLAN OF BALAT DAM

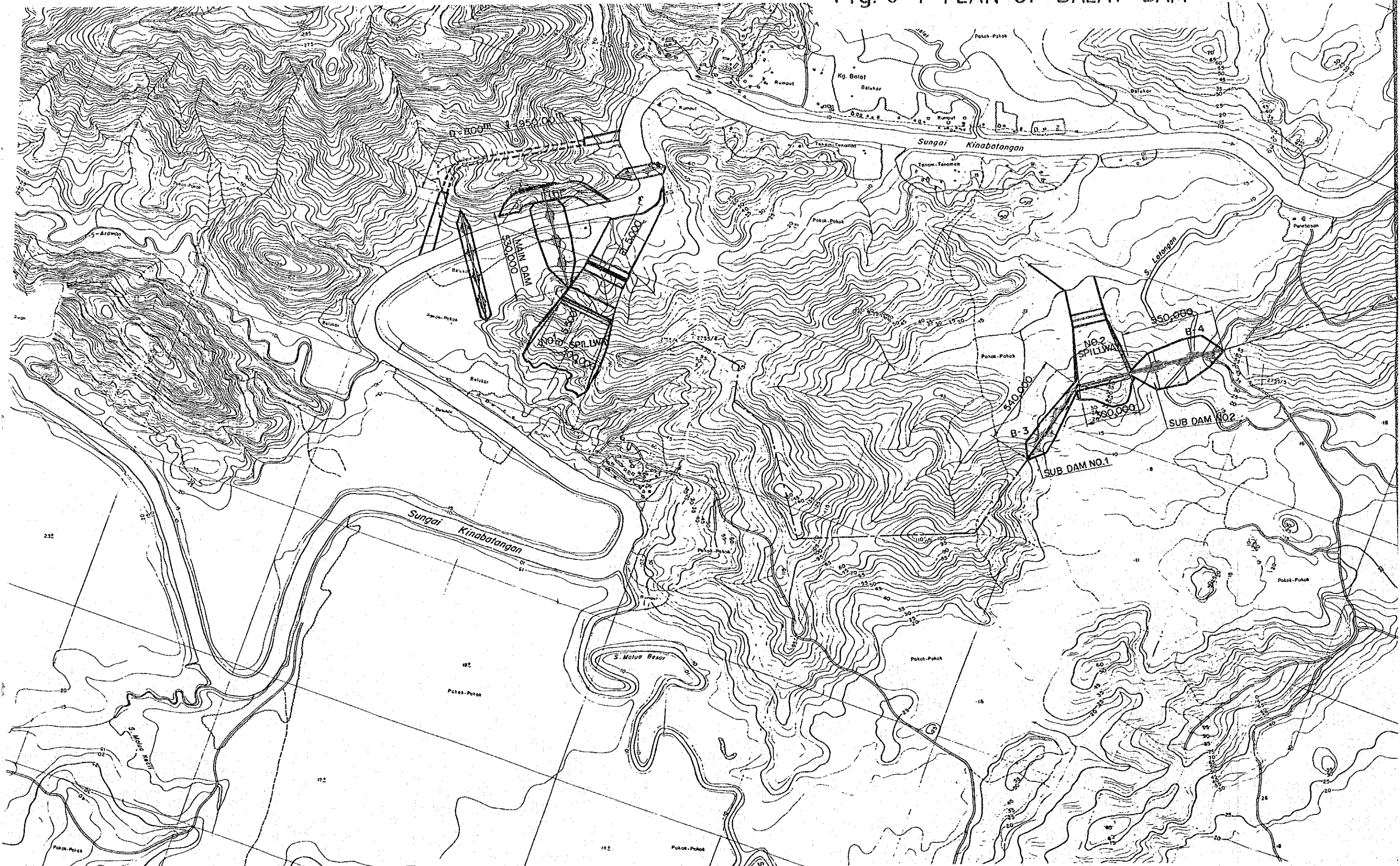
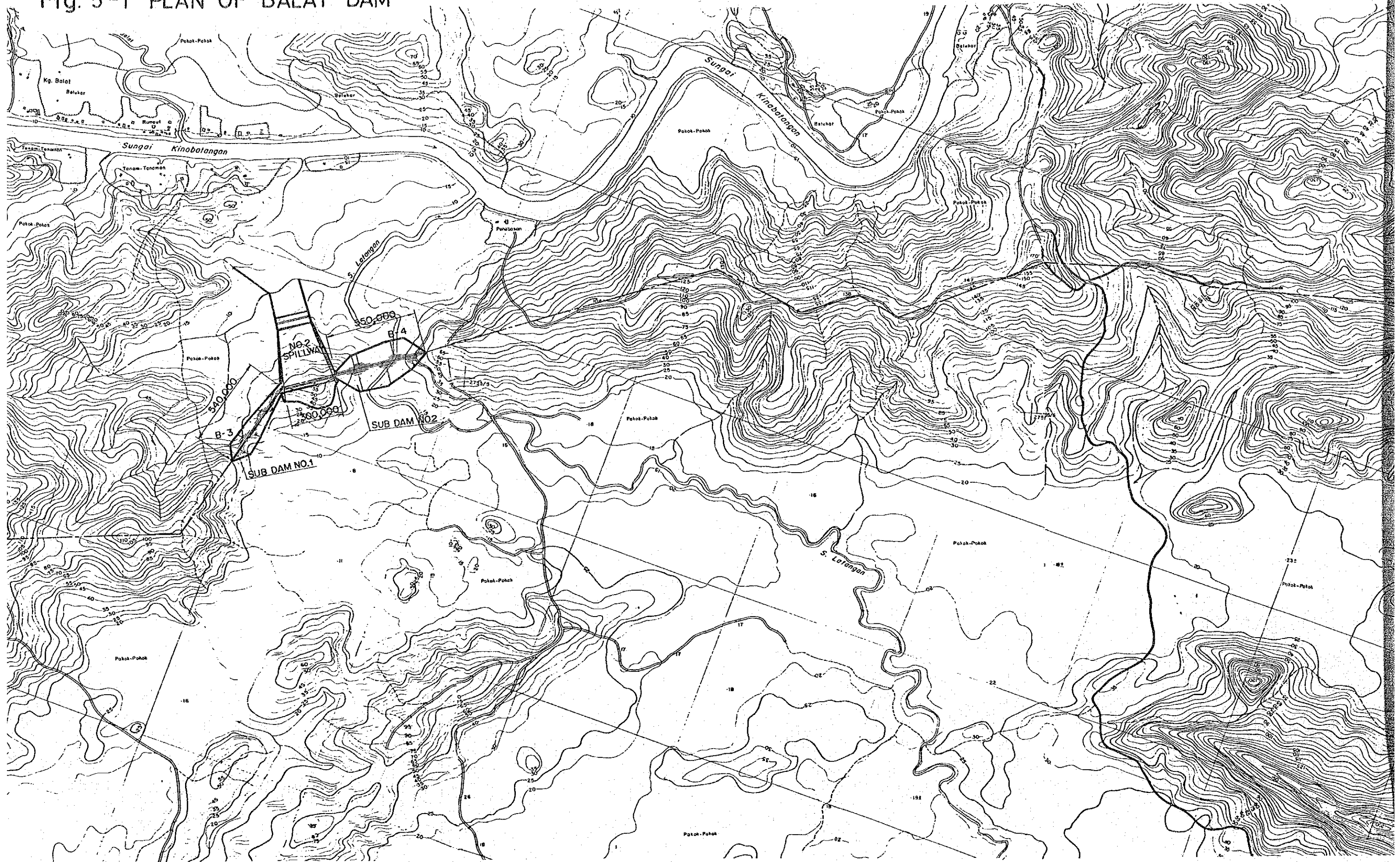
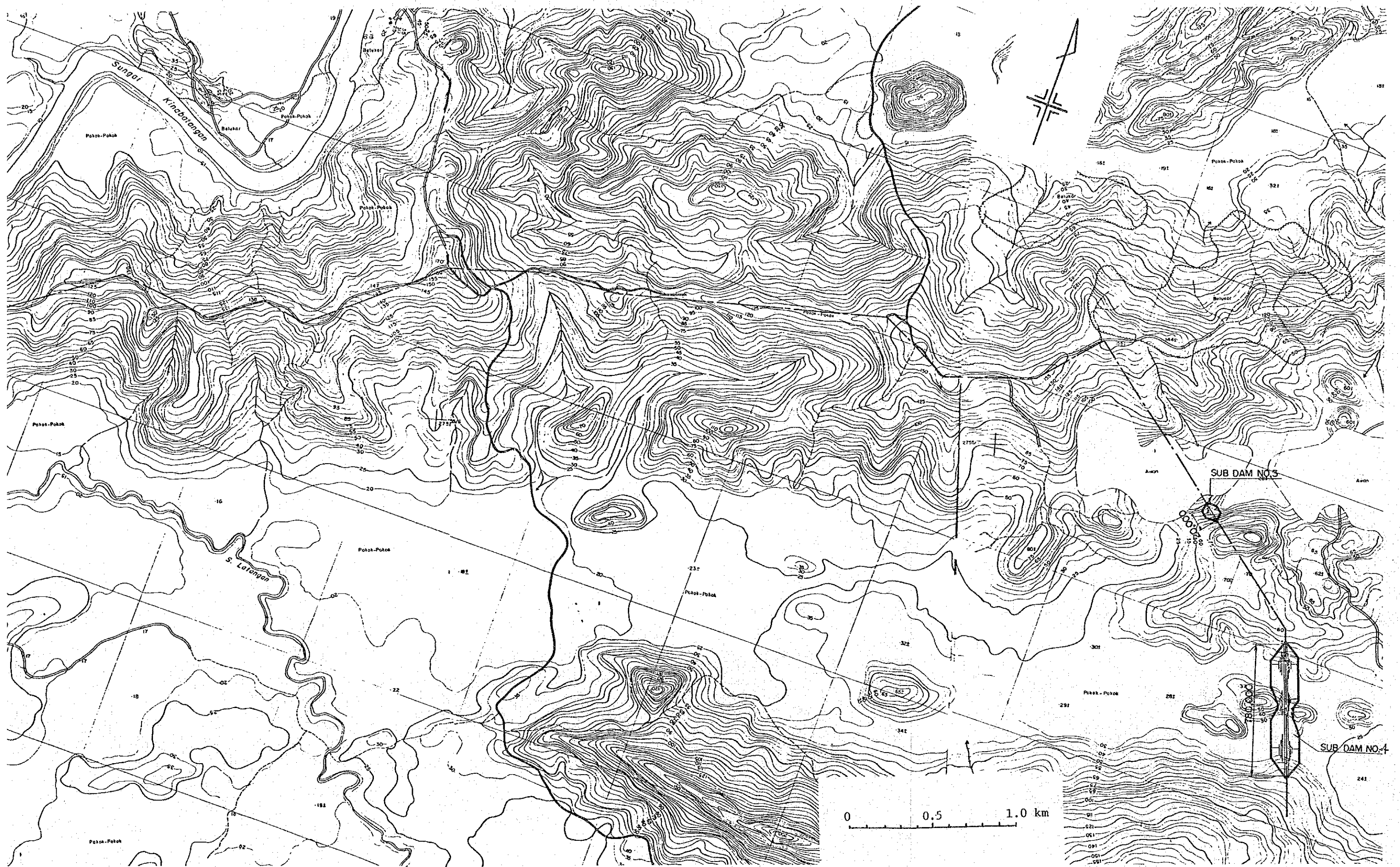


Fig. 5-1 PLAN OF BALAT DAM





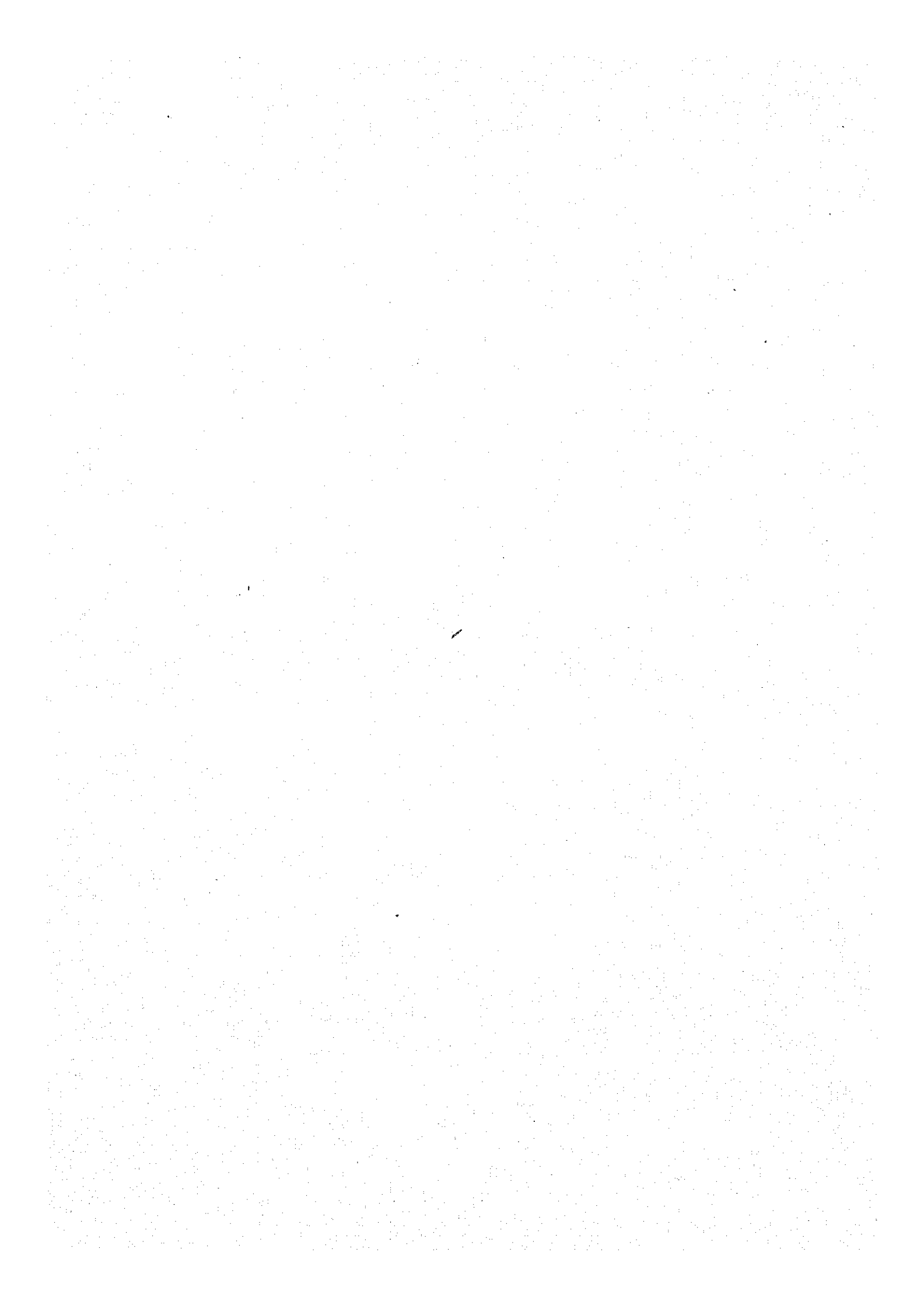


Fig. 5-2 PROFILE ALONG AXIS OF DAM

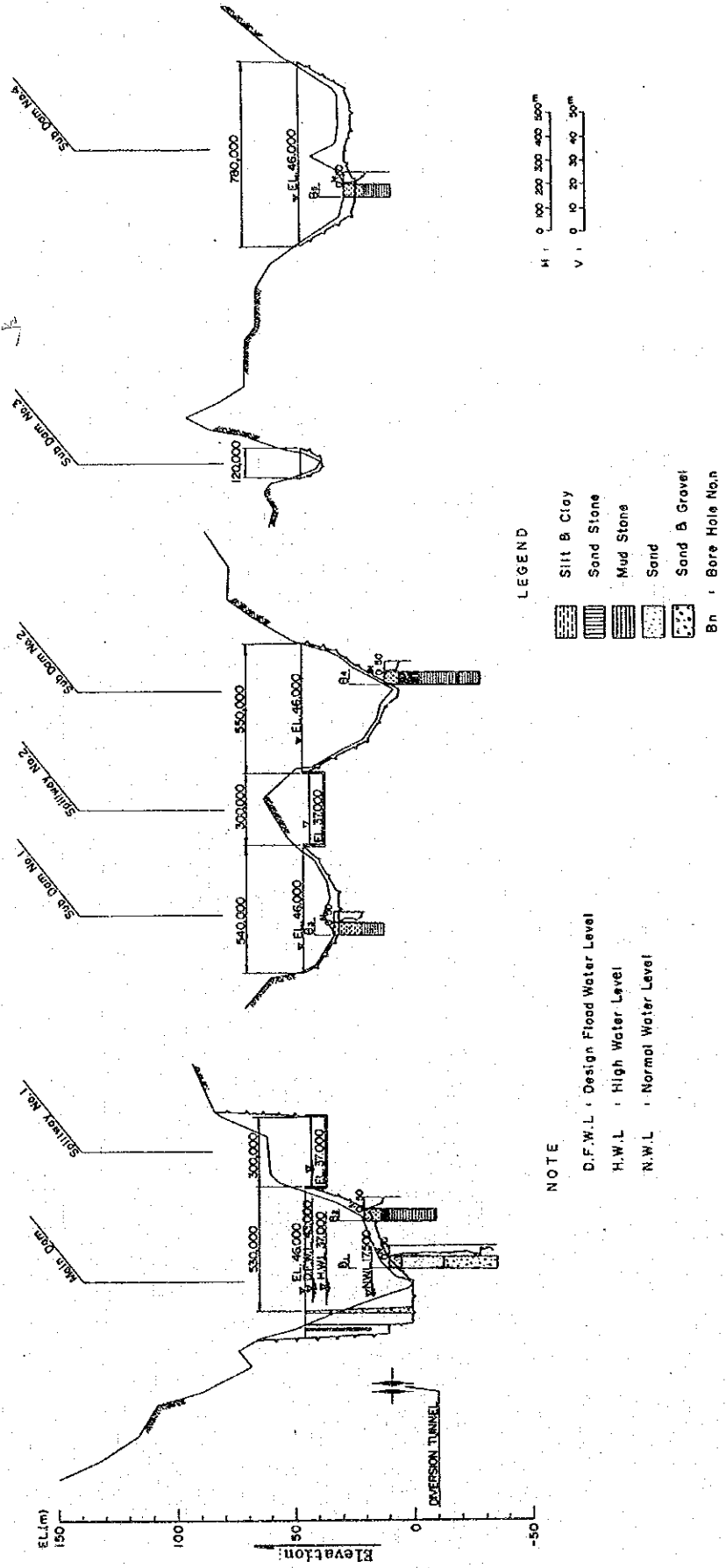


Fig. 5-3 TYPICAL CROSS-SECTION OF DAM

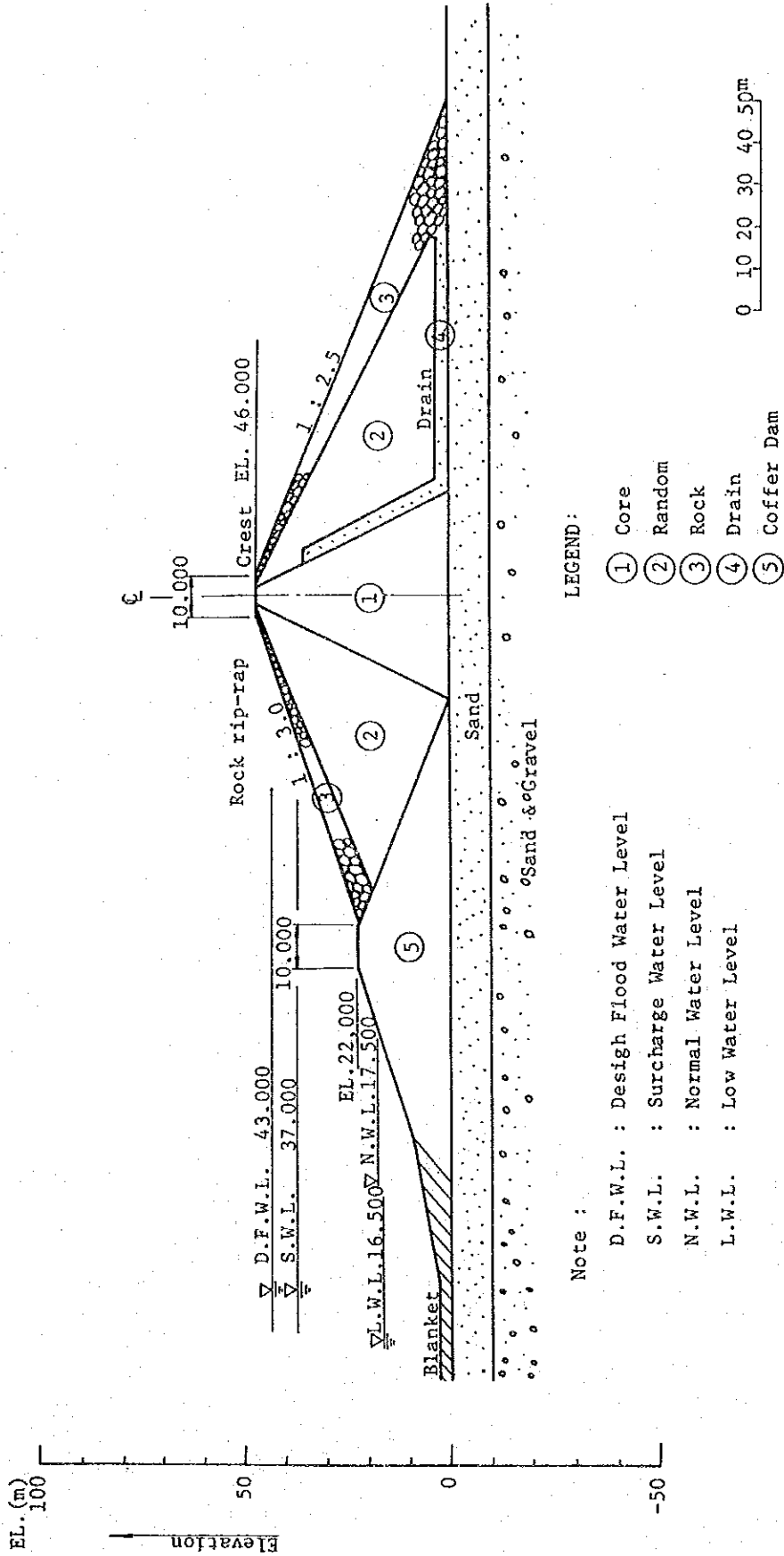


Fig. 5-4 PLAN OF OUTLET FACILITY

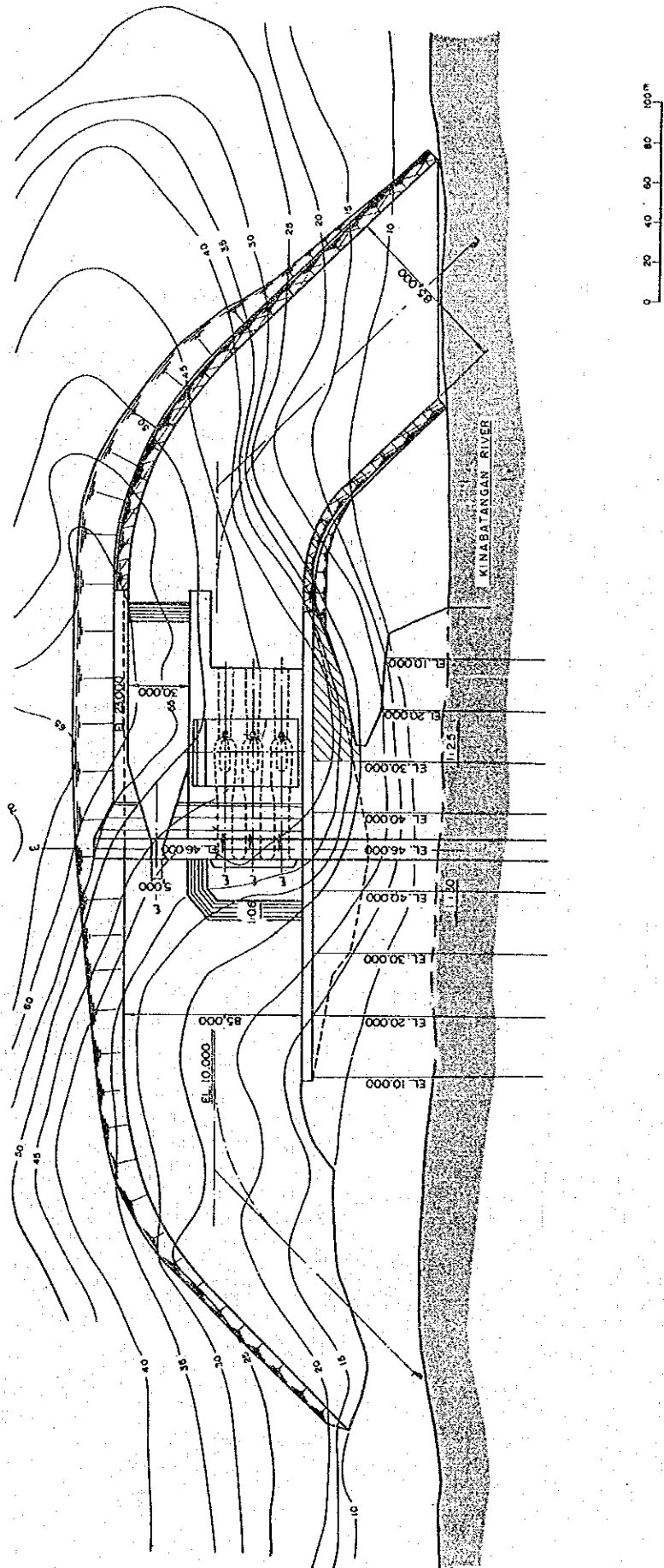


Fig. 5-5 TYPICAL LAYOUT OF FIELD STRUCTURE

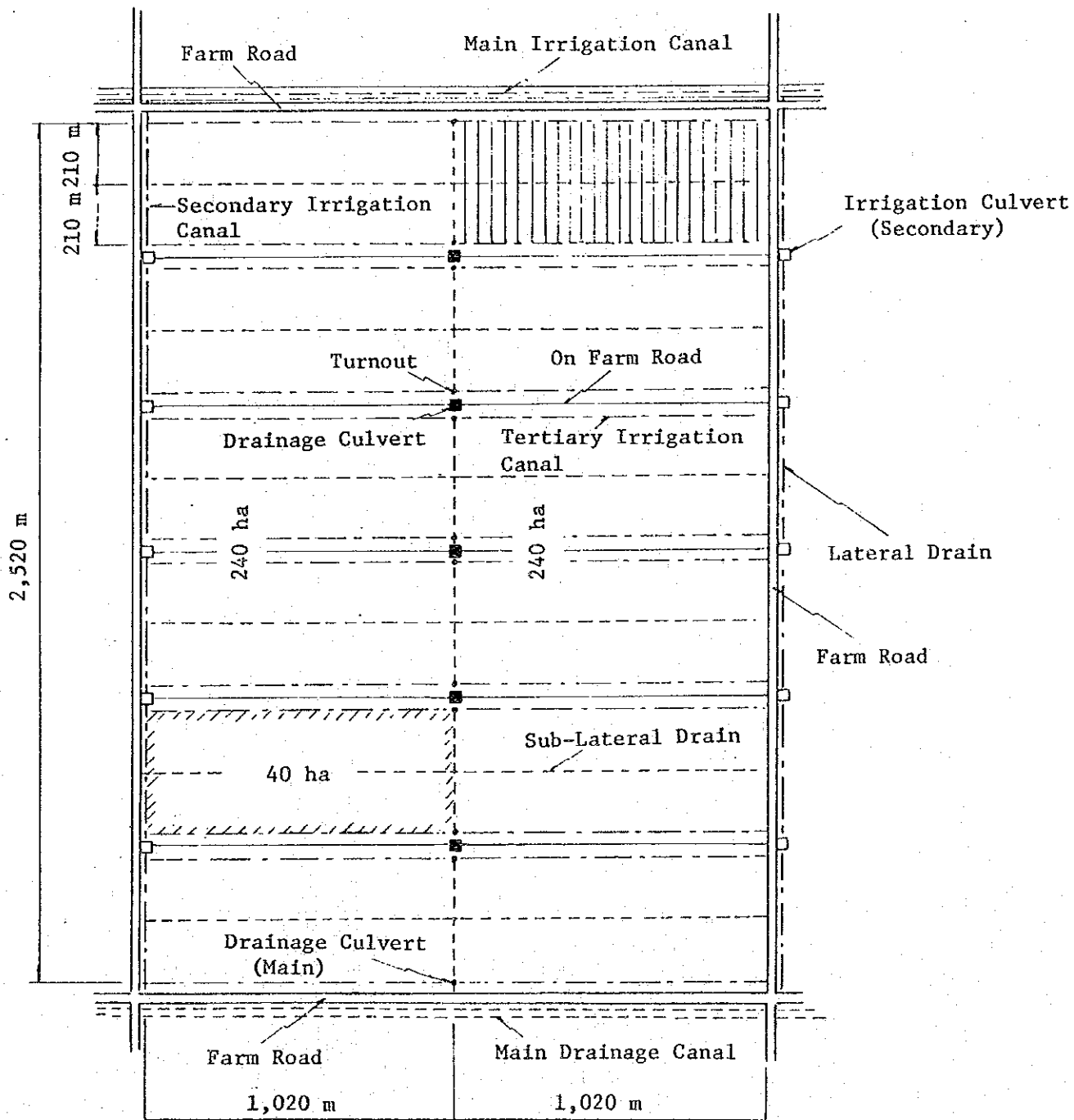


Fig. 5-6 PLAN AND CROSS-SECTION OF HYDRO POWER STATION

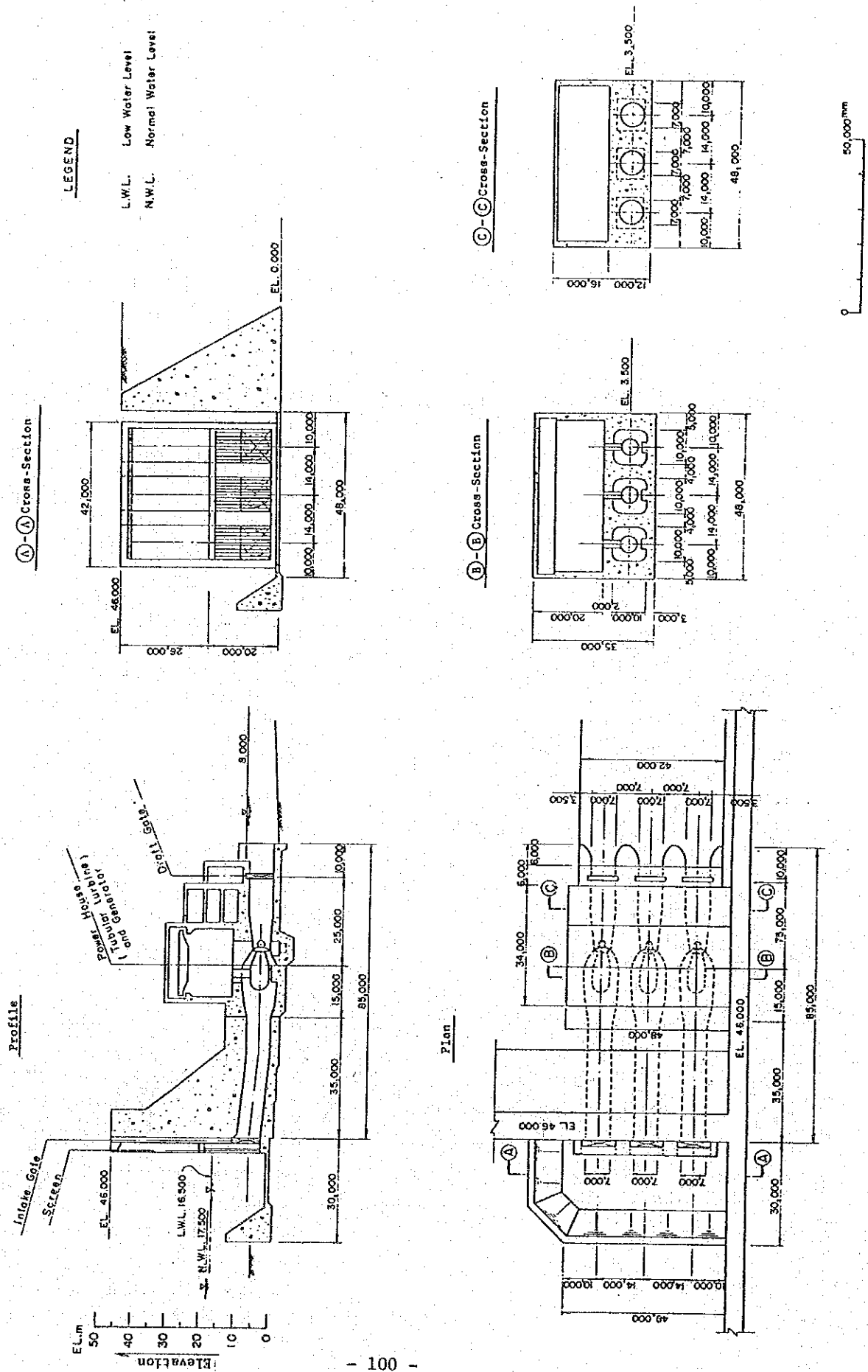


Fig. 6-1 CONSTRUCTION SCHEDULE

WORK ITEM	1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992			
	1st YEAR	2nd YEAR	3rd YEAR	4th YEAR	5th YEAR	6th YEAR	7th YEAR	8th YEAR	9th YEAR	10th YEAR	11th YEAR	12th YEAR	13th YEAR	14th YEAR	15th YEAR	16th YEAR	17th YEAR	18th YEAR	19th YEAR	20th YEAR	21st YEAR	22nd YEAR		
F/S	4	7	10	4	7	10	4	7	10	4	7	10	4	7	10	4	7	10	4	7	10	4	7	10
PREPARATION	For Detailed Design																							
ENGINEERING SERVICE	For Construction																							
LAND ACQUISITION	For Detailed Design																							
ACCESS ROAD	For Construction																							
PREPARATORY	For Construction																							
RIVER DIVERSION	For Construction																							
COFFER DAM	For Construction																							
OUTLET WORKS	For Construction																							
MAIN DAM	For Construction																							
SUB DAM	For Construction																							
SPILLWAY	For Construction																							
RESETTLEMENT	For Construction																							
PREPARATORY	For Construction																							
JUNGLE CLEARING & LEVELLING	For Construction																							
IRRIGATION, DRAINAGE & ROAD PROJECT BUILDING, etc.	For Construction																							
RICE MILL & FARM MACHINERY	For Construction																							
PREPARATORY	For Construction																							
CIVIL WORKS	For Construction																							
GENERATING EQUIPMENT	For Construction																							
POWER HOUSE	For Construction																							
TRANSMISSION LINE	For Construction																							

A T T A C H M E N T

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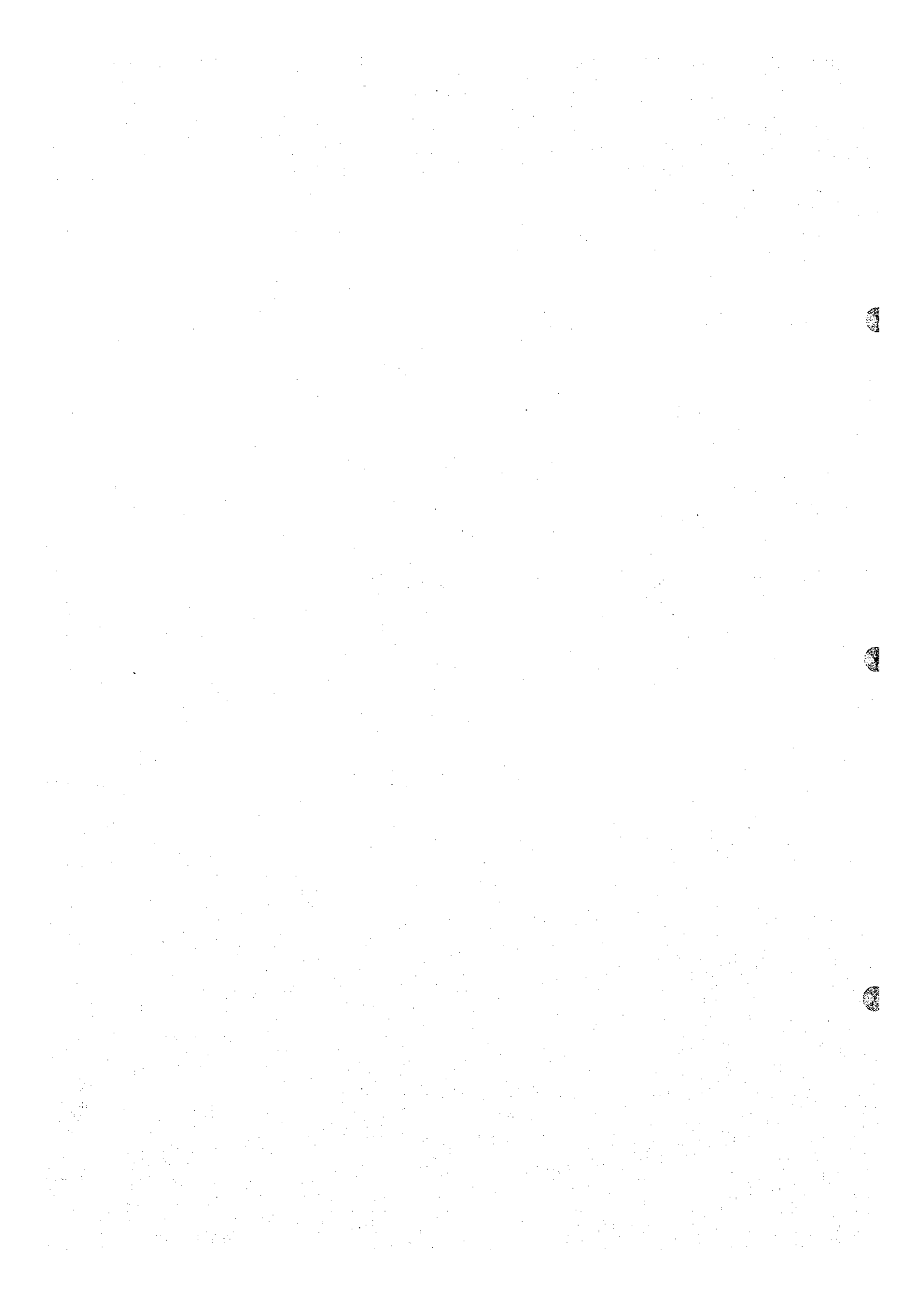
ATTACHMENT : MEMBER OF SURVEY TEAM AND ADVISORY COMMITTEE

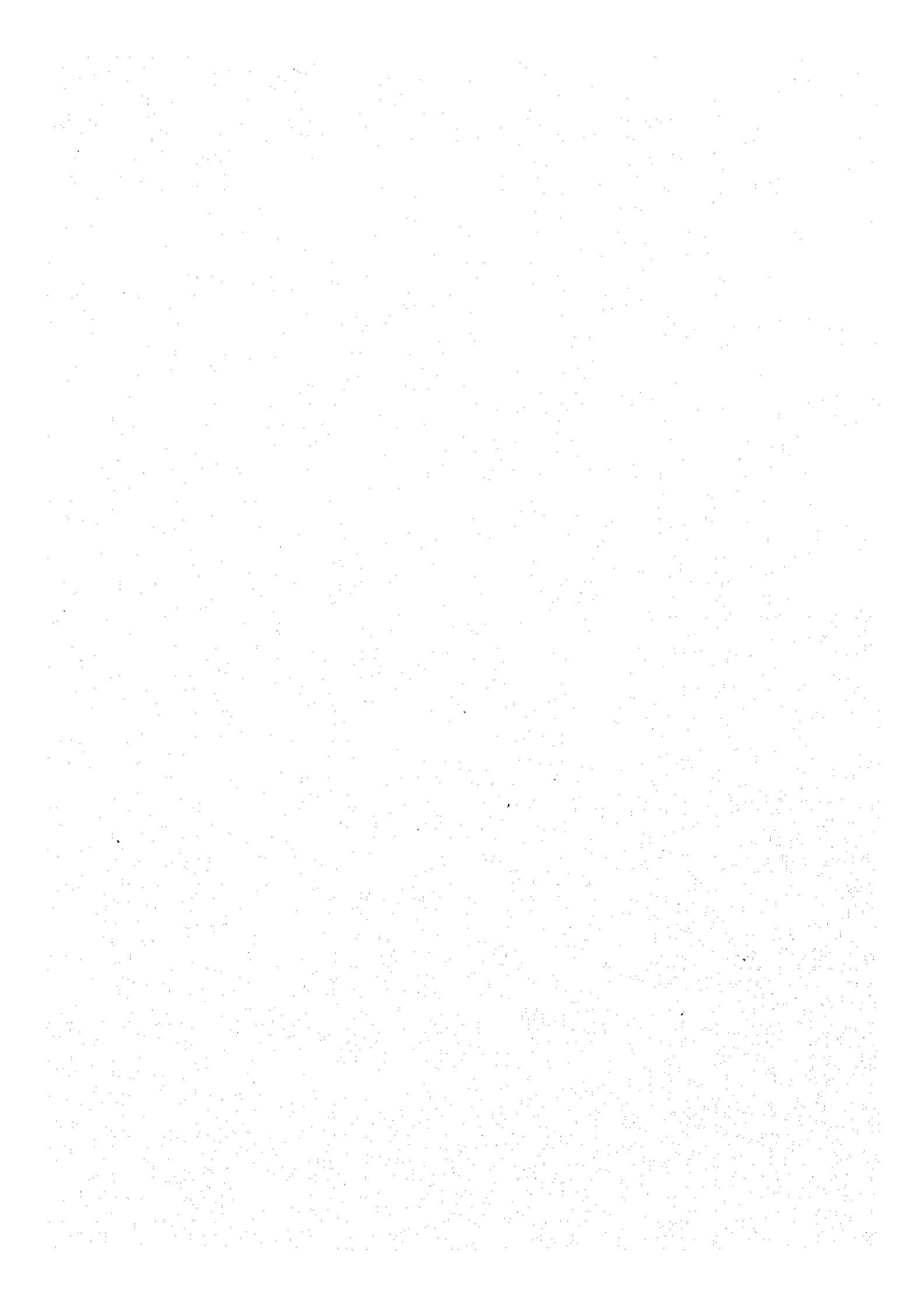
Survey Team

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- do -	Mr. Kazumi Nobe (2nd Stage)
Geologist	Mr. Takuji Murakami
Flood Control Engineer	Mr. Akio Shichijugari
Dam and Hydro Power Engineer	Mr. Tadashi Kudo
Irrigation Engineer	Mr. Takafumi Suzuki
Agronomy	Mr. Keisaku Kobayashi
Regional Planner	Mr. Eiji Nishita
Socio-Economist	Mr. Yoshiharu Matsumoto

Advisory Committee

Head	Mr. Eiichi Yoshitake
Flood Control	Mr. Mitsuaki Mizuno
Regional Plan	Mr. Keiichi Inoue
Agricultural Development Plan	Mr. Masataka Kurosawa
Hydro Power	Mr. Masatoshi Furuichi (1st Stage)
- do -	Mr. Isao Yamamoto (2nd Stage)
Power Development Plan	Mr. Masao Makino
Coordinator	Mr. Hitonori Ono





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