

図 III-11 洪水及び堆砂の被害地域 (1974年8月中旬)

MAPPING SYMBOL	CLASSIFICATION SYMBOL	EXTENT AREA (ha)	Note	Classification criteria			
[Stippled pattern]	A(1).B(1)	1,320	A. Inundation period	(1) 1 to 2 days	(2) 3 to 4 days	(3) 5 to 7 days	(4) more than 7 days
[Cross-hatched pattern]	A(1).B(1).C(1)	180		B. Inundation depth	less than 15 cm	15 to 45 cm	45 to 75 cm
[Horizontal line pattern]	A(1).B(2)	70	C. Depth of sediments		less than 10 cm	10 to 30 cm	30 to 50 cm
[Vertical line pattern]	A(1).B(2).C(1)	400					
[Diagonal line pattern]	A(2).B(2)	1,370					
[Wavy line pattern]	A(2).B(2).C(1)	350					
[Dotted pattern]	A(3).B(3)	1,250					
[Total area]	Total	4,940					

Data source ; The philippines recomends for rice , 1977
 Depth of inundation and sediments is preliminarily estimated based on the data obtained by field interviews with farmers.

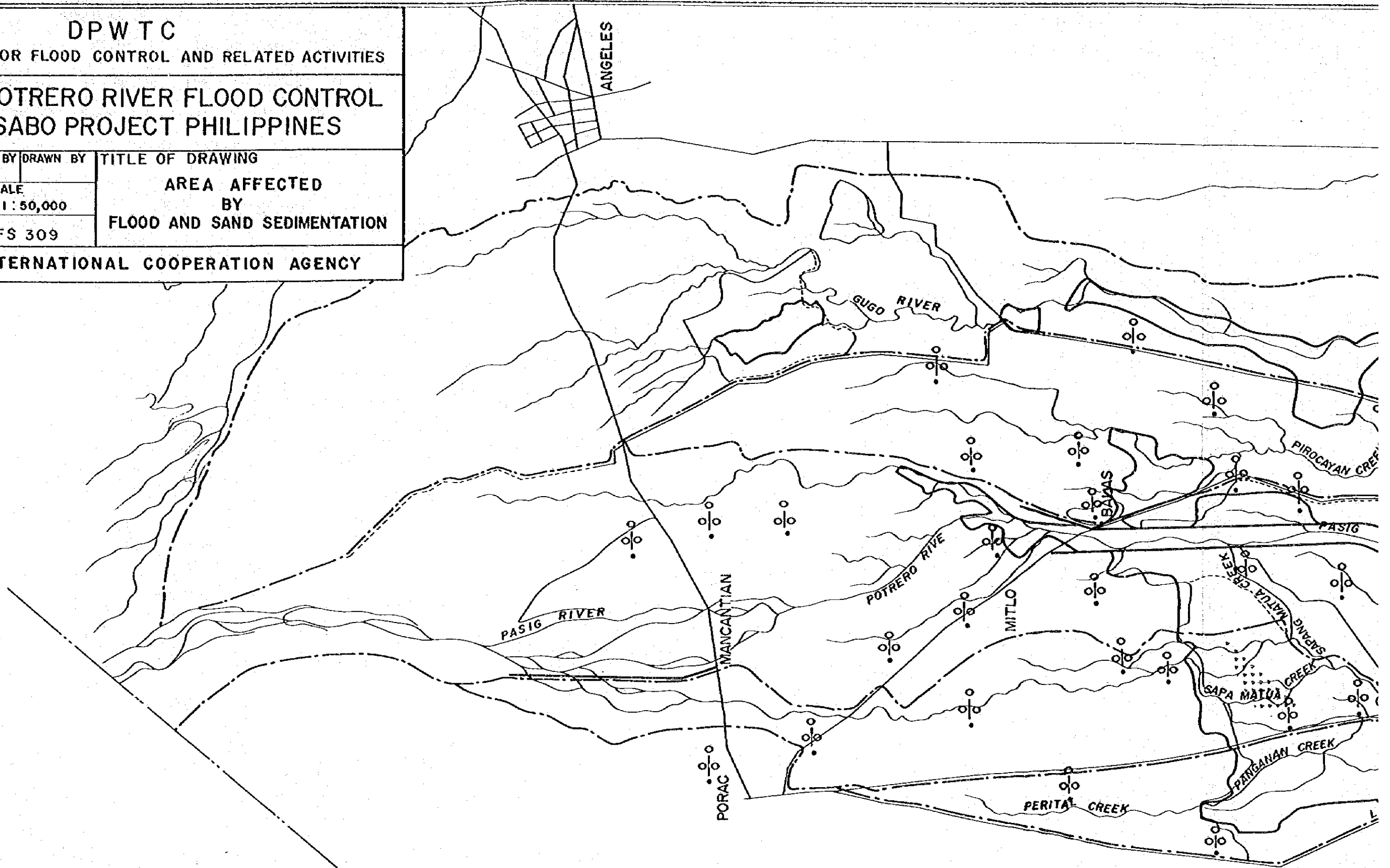
DPWTC

TASK FORCE FOR FLOOD CONTROL AND RELATED ACTIVITIES

PASIG-POTRERO RIVER FLOOD CONTROL
AND SABO PROJECT PHILIPPINES

CHECKED BY	DESIGNED BY	DRAWN BY	TITLE OF DRAWING
DATE	SCALE		AREA AFFECTED
SEP. 30. 1978	1:50,000		BY
DRAWING NO.	PPFS 309		FLOOD AND SAND SEDIMENTATION

JAPAN INTERNATIONAL COOPERATION AGENCY



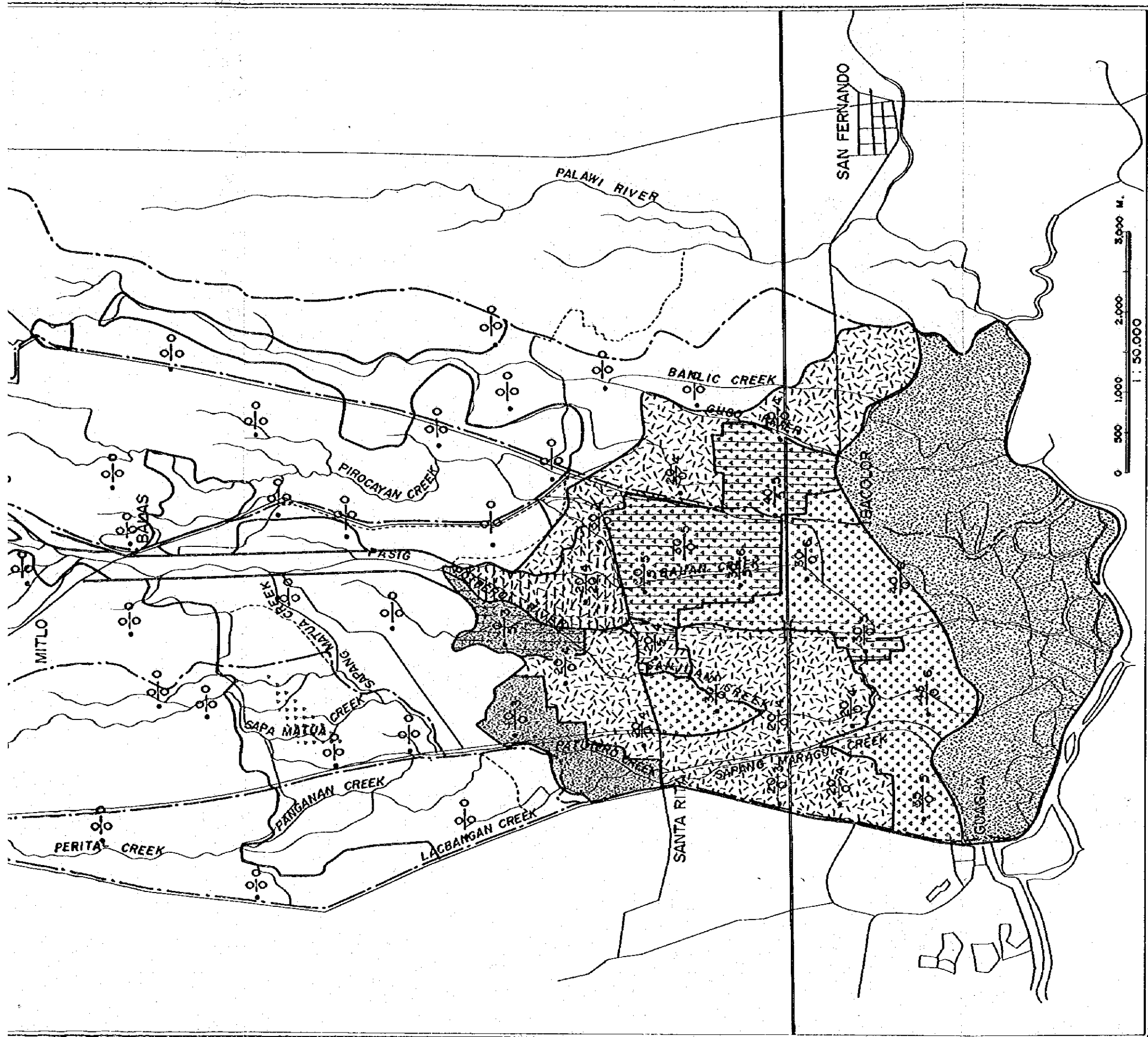


図 III-12 洪水及び堆砂の被害地域 (1976年5月中旬)

MAPPING SYMBOL	CLASSIFICATION SYMBOL	EXTENT AREA (ha)	Note ;	Classification criteria
				(1) (2) (3) (4)
[Symbol 1]	A(2).B(1)	150	A. Inundation	1 to 3 to 5 to more than
[Symbol 2]	A(2).B(1).C(1)	70	period	2 days 4 days 7 days 7 days
[Symbol 3]	A(2).B(2)	1,340	B. Inundation	less than 15 to 45 to more than
[Symbol 4]	A(2).B(2).C(1)	40	depth	15 cm 45 cm 75 cm 75 cm
[Symbol 5]	A(2).B(2).C(2)	160	C. Depth of	less than 10 to 30 to more than
[Symbol 6]	A(3).B(2)	590	sediments	10 cm 30 cm 50 cm 50 cm
[Symbol 7]	A(3).B(2).C(1)	420		
[Symbol 8]	A(4).B(3)	1,250		
	Total	3,020		

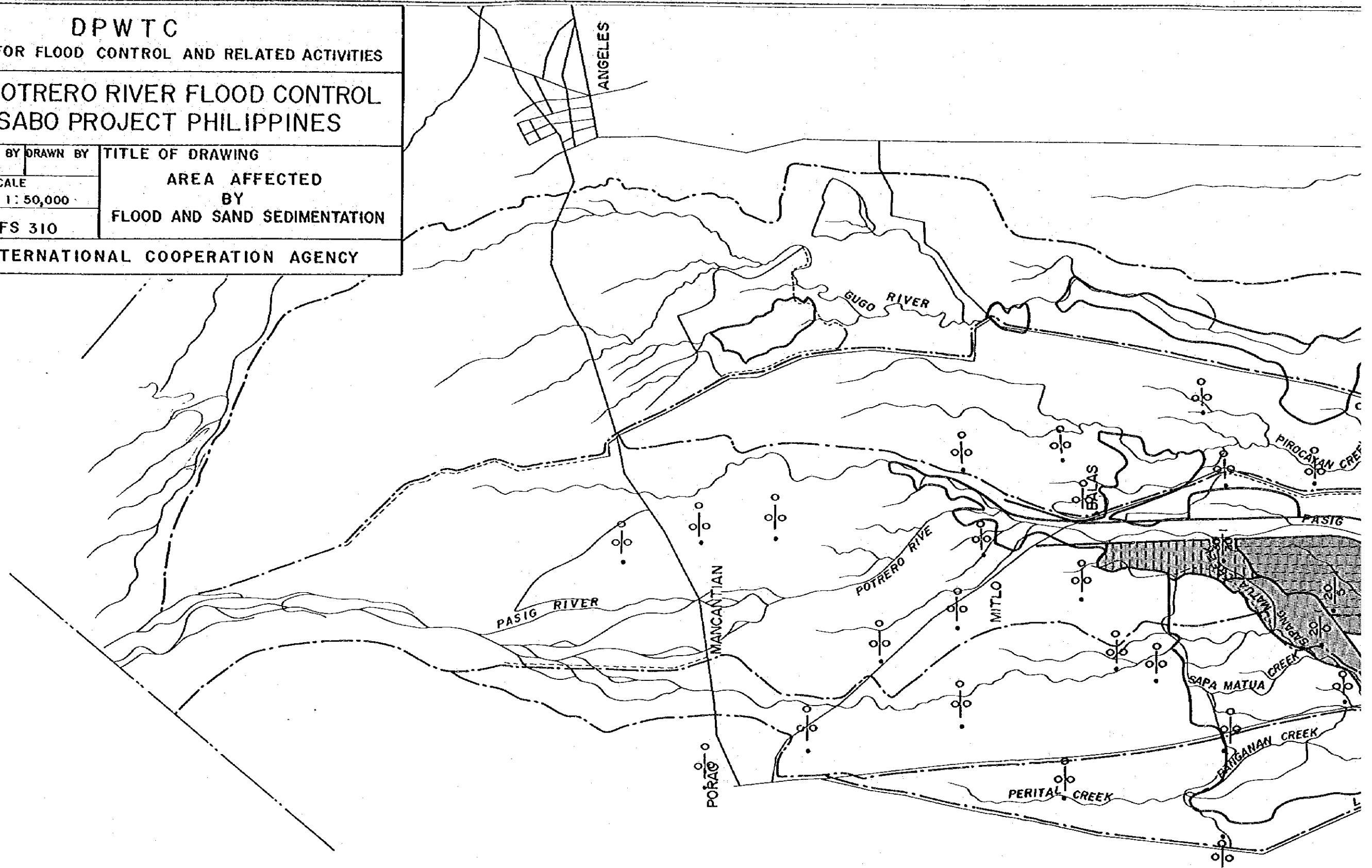
Data source ; The Philippines recomends for rice, 1977
 Depth of inundation and sediments is
 preliminarily estimated based on the
 data obtained by field interviews with farmers.

DPWTC

TASK FORCE FOR FLOOD CONTROL AND RELATED ACTIVITIES

PASIG-POTRERO RIVER FLOOD CONTROL
AND SABO PROJECT PHILIPPINES

CHECKED BY	DESIGNED BY	DRAWN BY	TITLE OF DRAWING
DATE	SCALE	AREA AFFECTED	
SEP. 30. 1978	1: 50,000	BY	
DRAWING NO.	PPFS 310	FLOOD AND SAND SEDIMENTATION	
JAPAN INTERNATIONAL COOPERATION AGENCY			



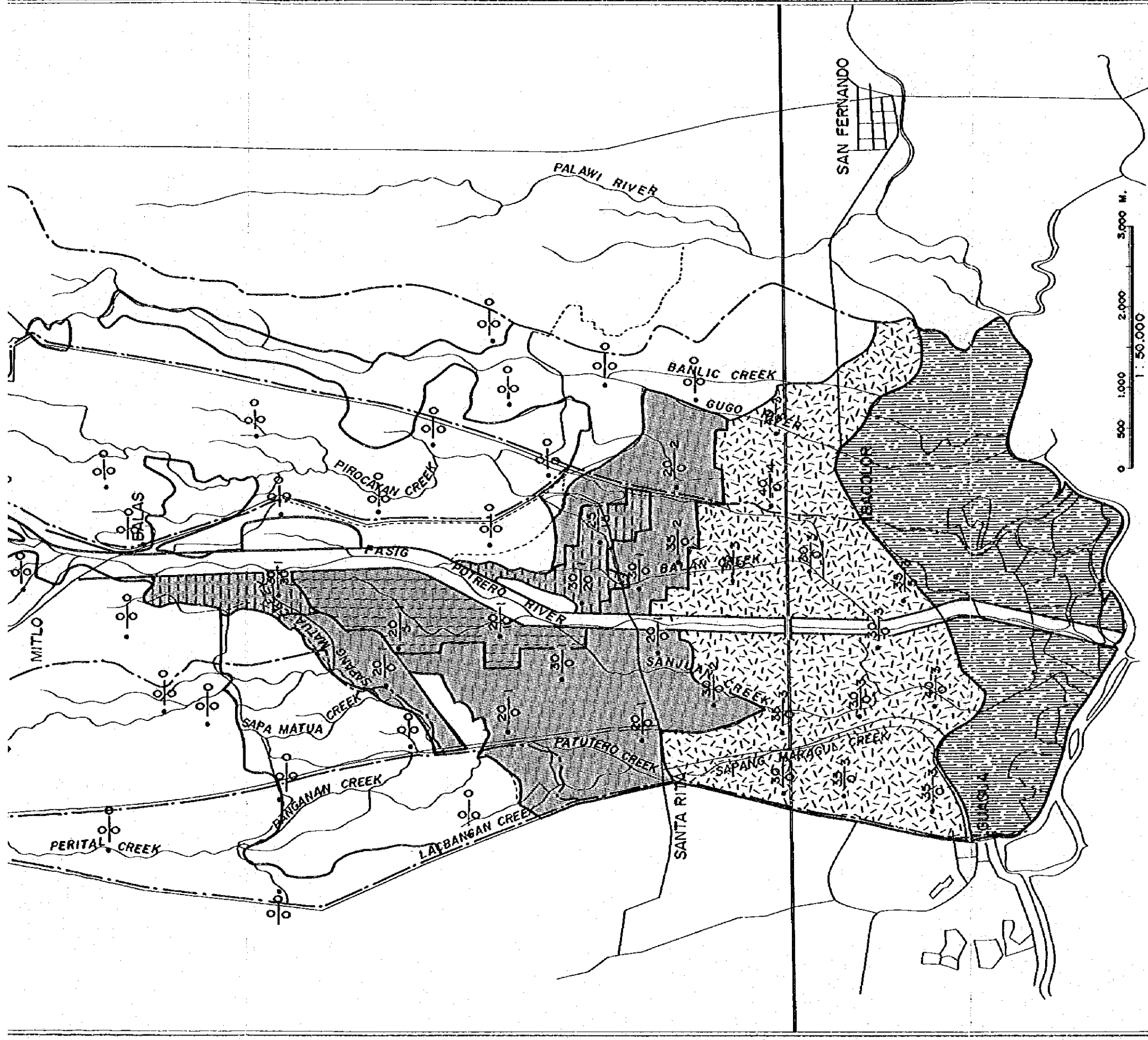
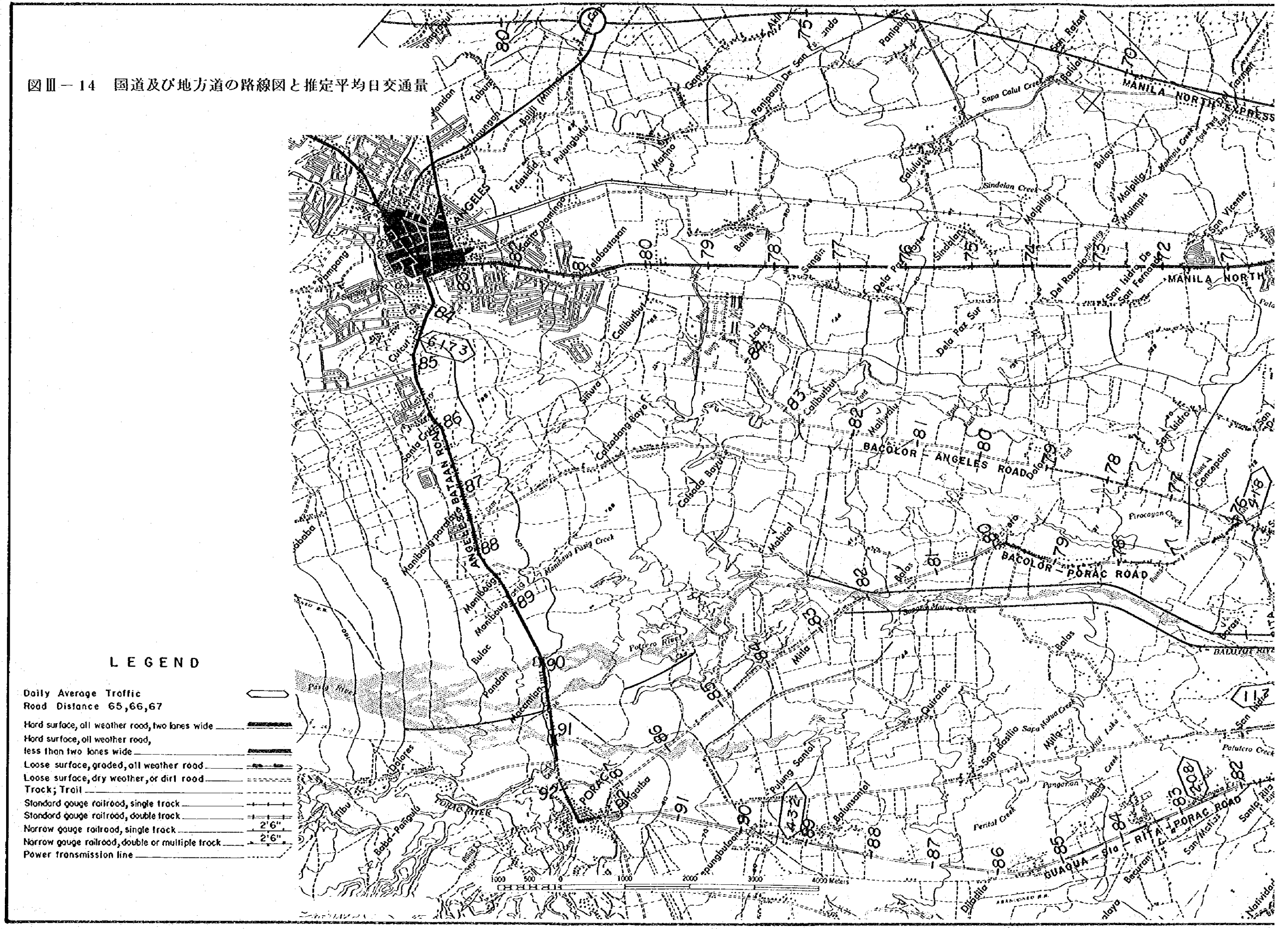


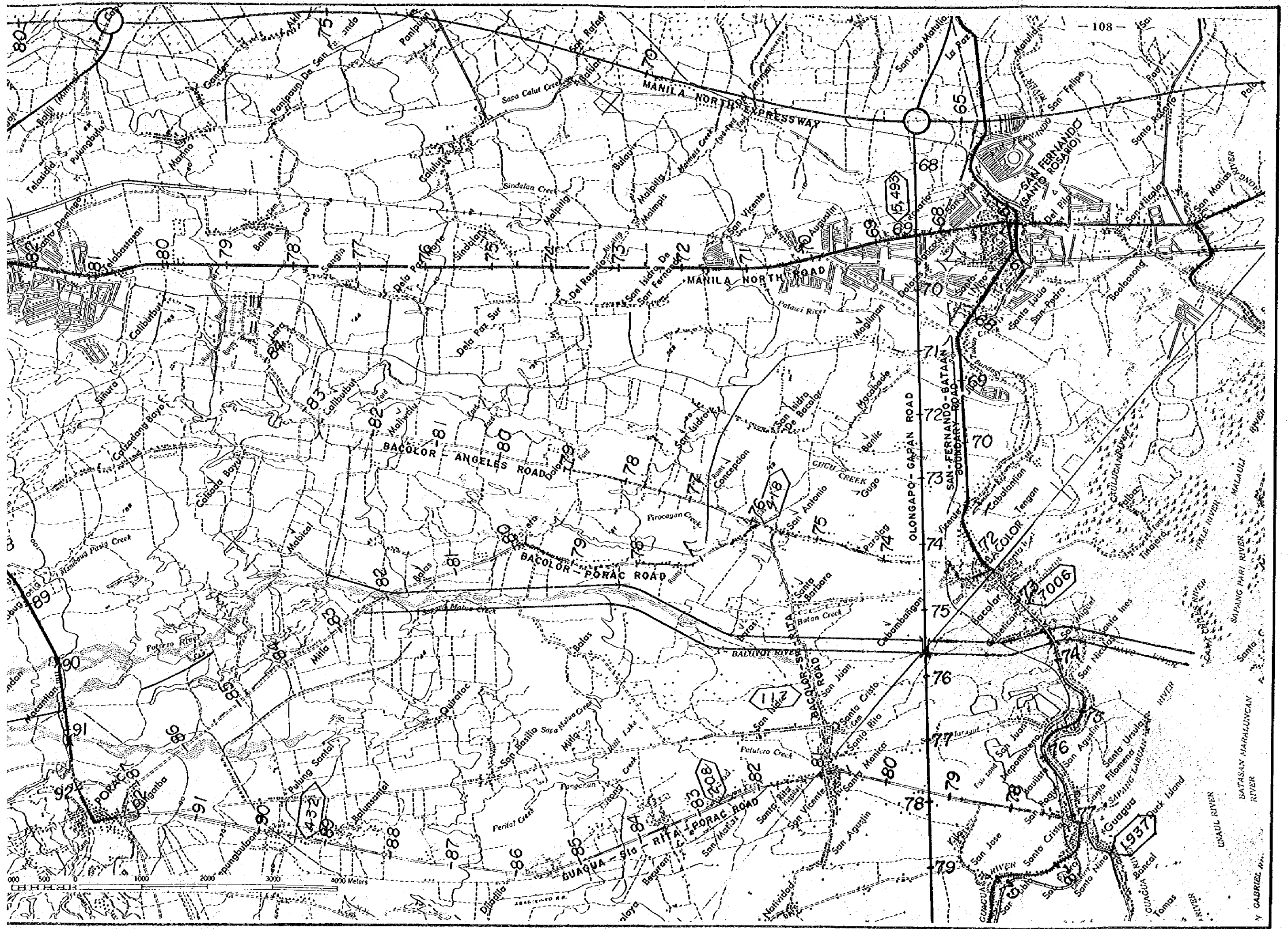
図 III-13 洪水及び堆砂の被害地域 (1977年11月)

MAPPING SYMBOL	CLASSIFICATION SYMBOL	EXTENT AREA (ha)	Note ;	Classification criteria
				(1) (2) (3) (4)
	A(1).B(2)	1,000	A. Inundation period	1 to 3 to 5 to more than
	A(1).B(2).C(1)	220		2 days 4 days 7 days 7 days
	A(1).B(2).C(2)	190	B. Inundation depth	less than 15 to 45 to more than
	A(2).B(2)	1,400	C. Depth of sediments	15 cm 45 cm 75 cm 75 cm
	A(3).B(3)	1,170		less than 10 to 30 to more than
	Total	3,980		10 cm 30 cm 50 cm 50 cm

Data source ; The Philippines recommends for rice, 1977
 Depth of inundation and sediments is
 preliminarily estimated based on the
 data obtained by field interviews with farmers.

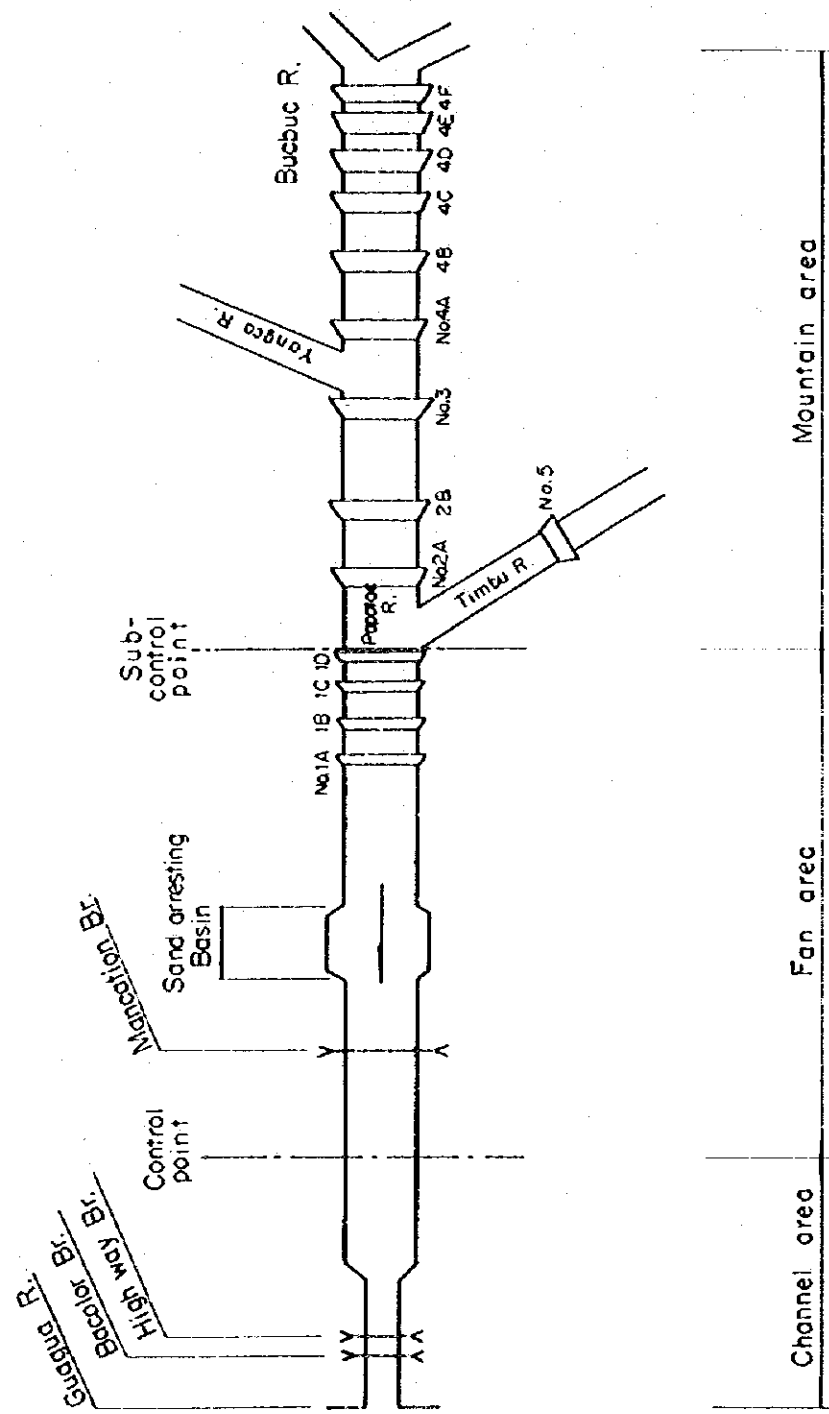
図 III-14 国道及び地方道の路線図と推定平均日交通量



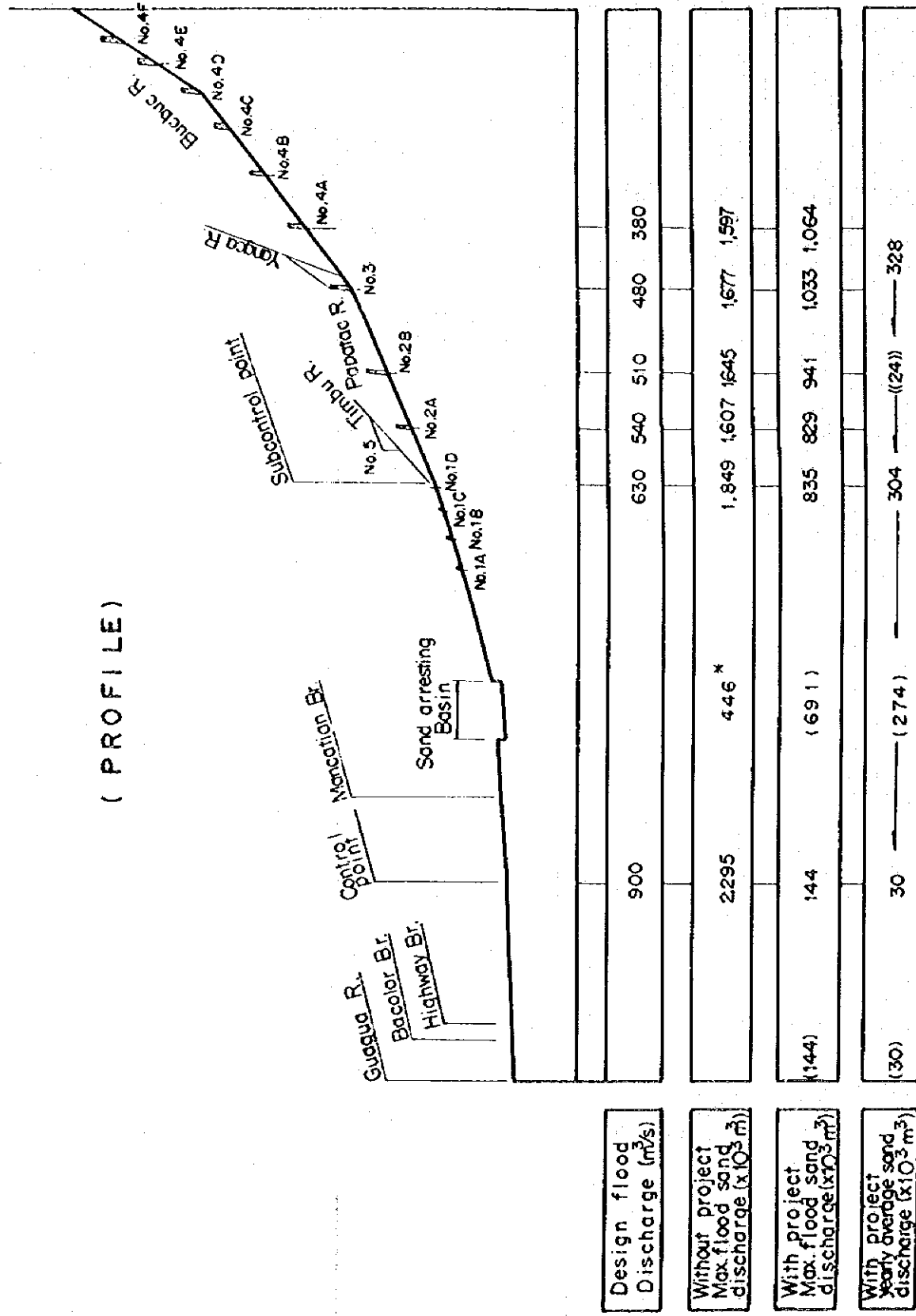


図IV-1 有施設及び無施設に於ける土砂及び洪水量の配分図

(PLAN)

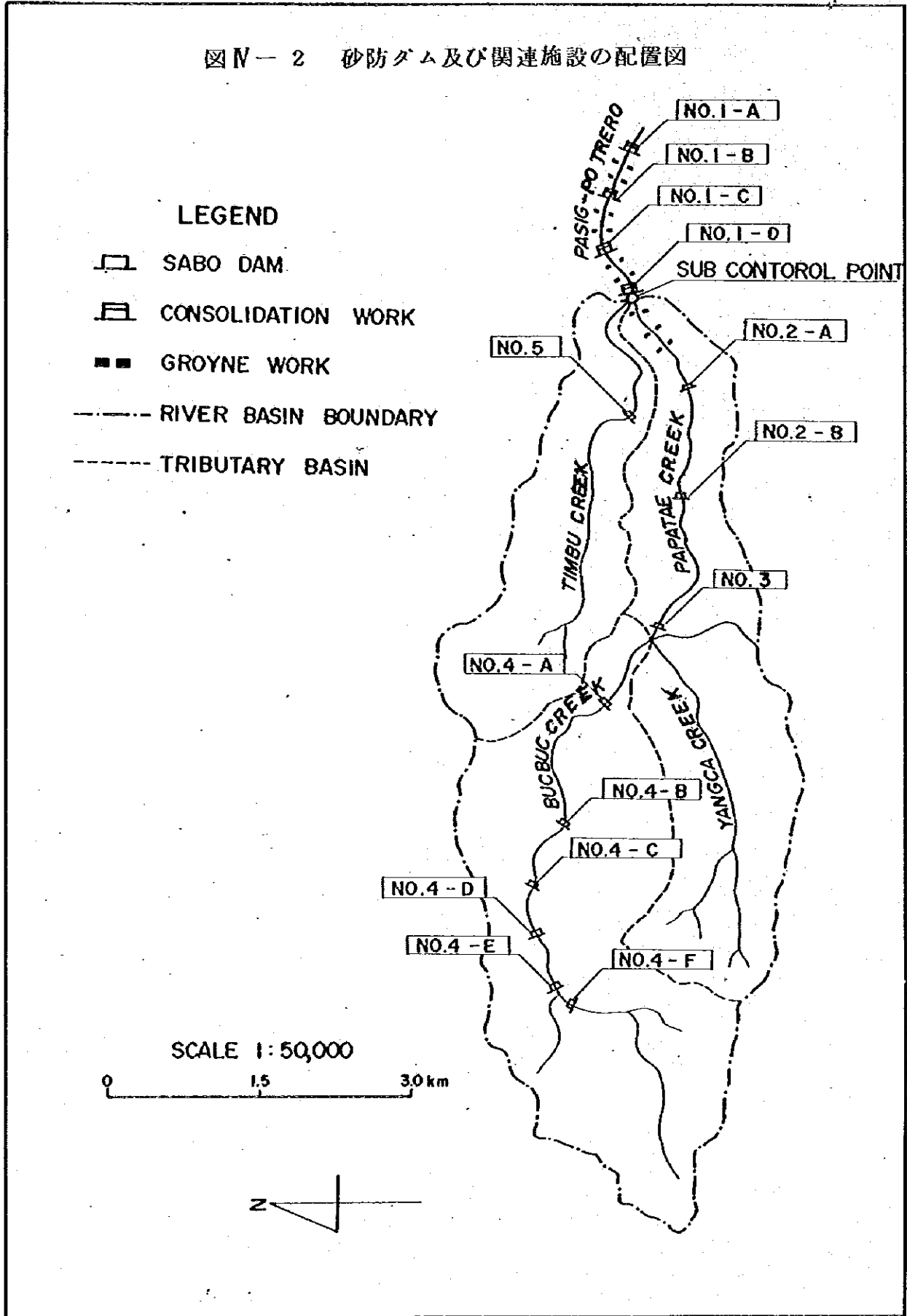


(PROFILE)



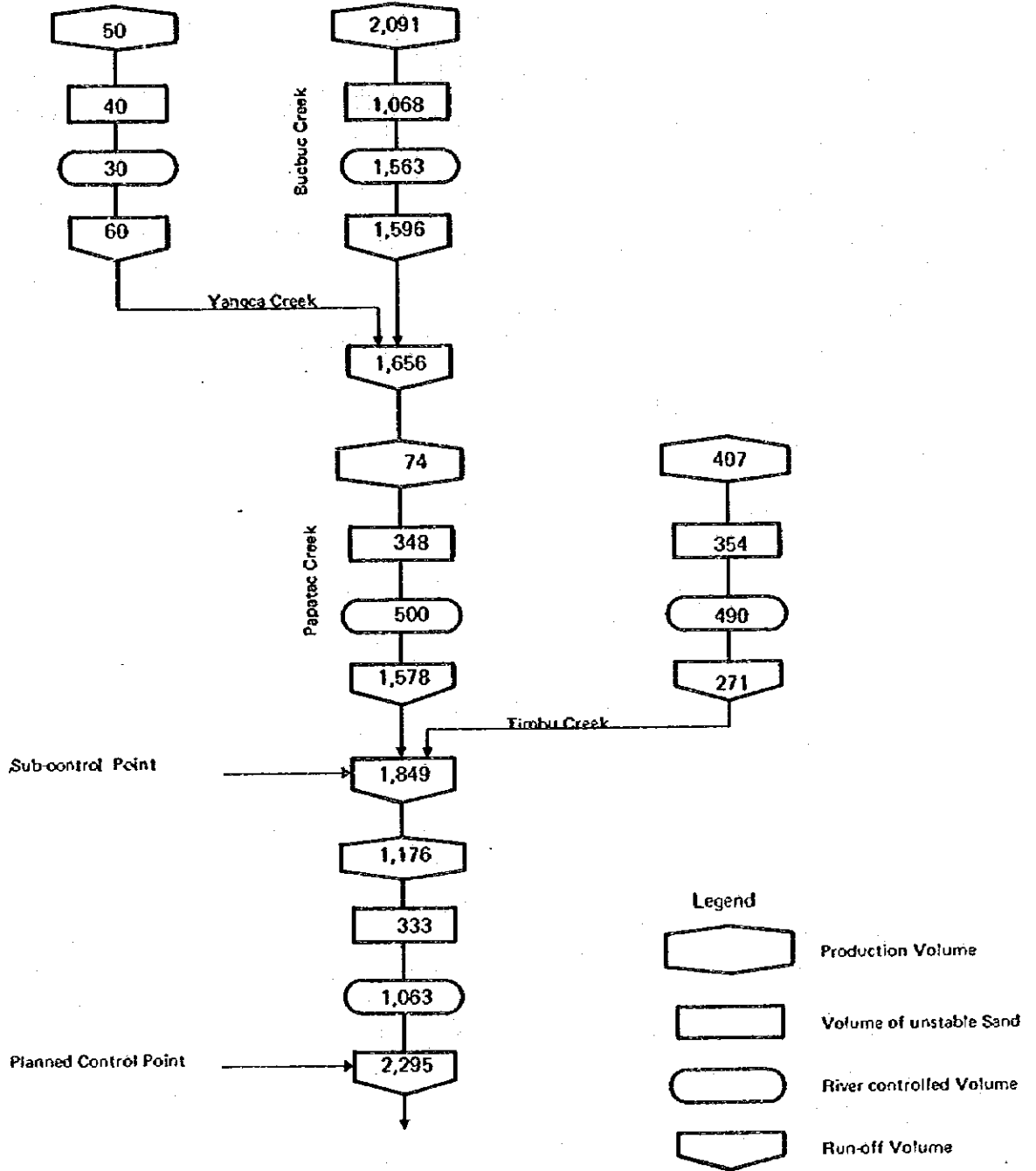
() : Sand volume to be dredged. ([]) : River bed control sand volume
 * : Sand volume produced by river bed and river banks erosion between sub-control point and control point.

図N-2 砂防ダム及び関連施設の配置図

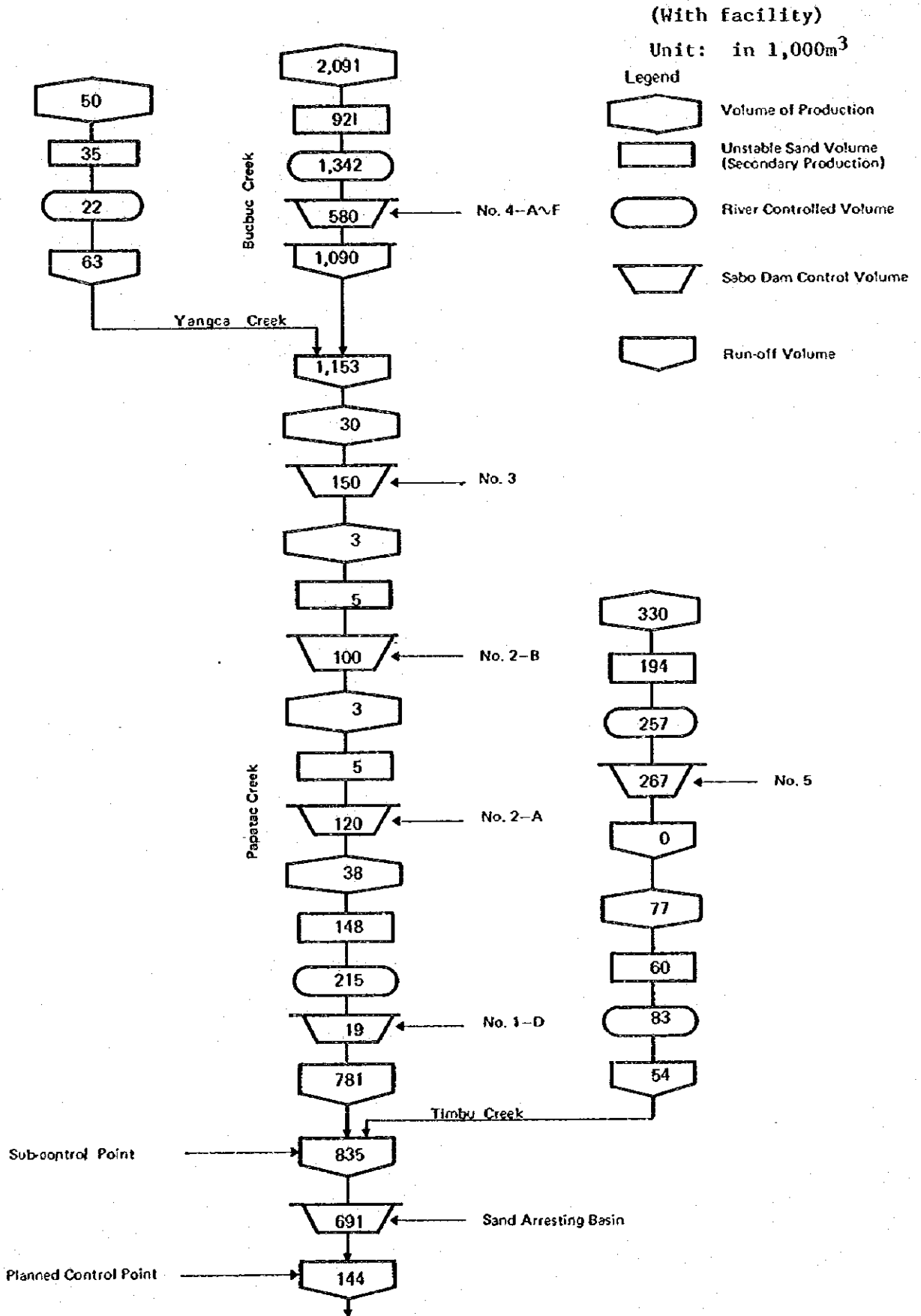


図IV-3 最大洪水時の流出土砂量配分図（無施設）

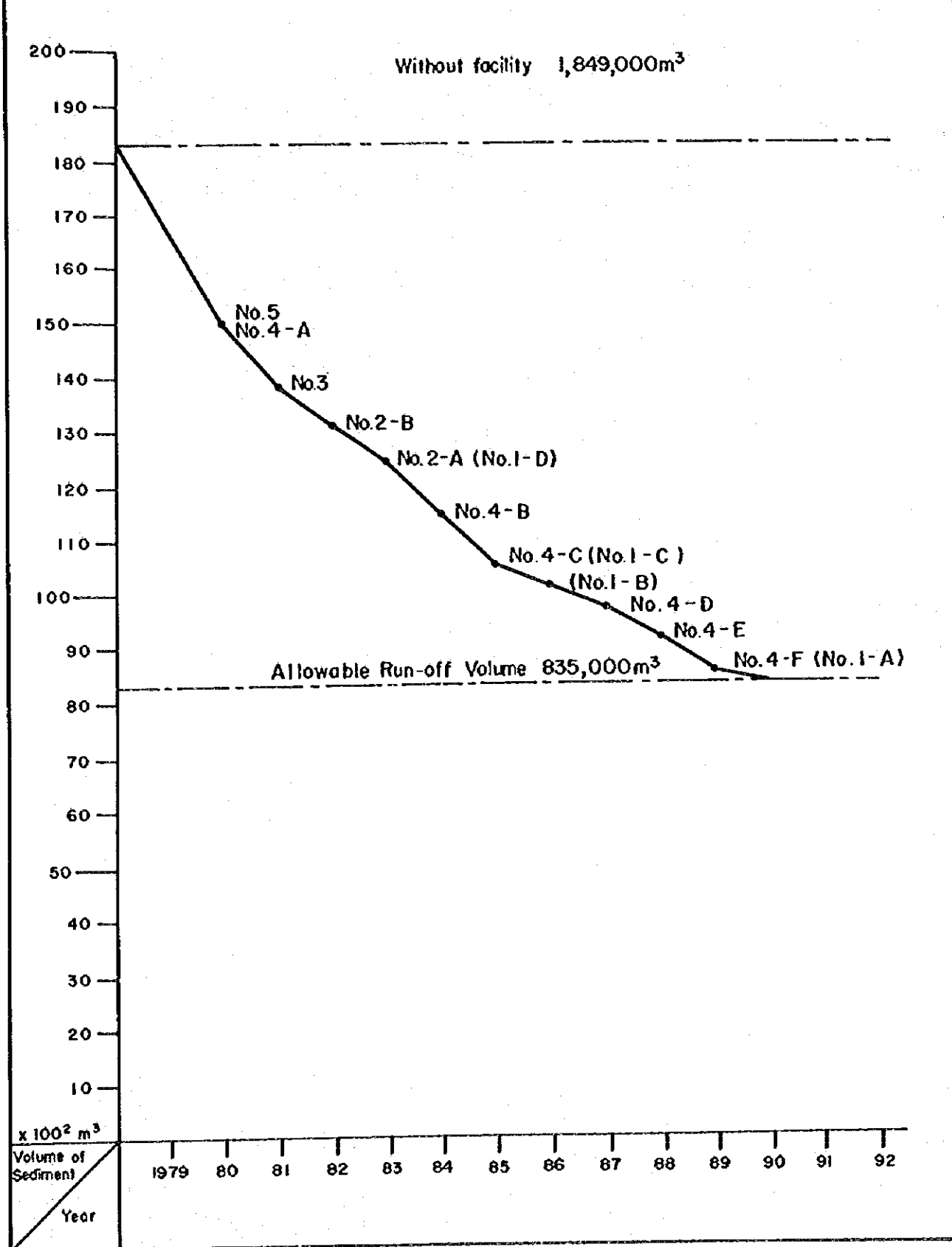
Unit: in 1,000m³



図Ⅳ-4 最大洪水時の流出土砂量配分図(有施設)

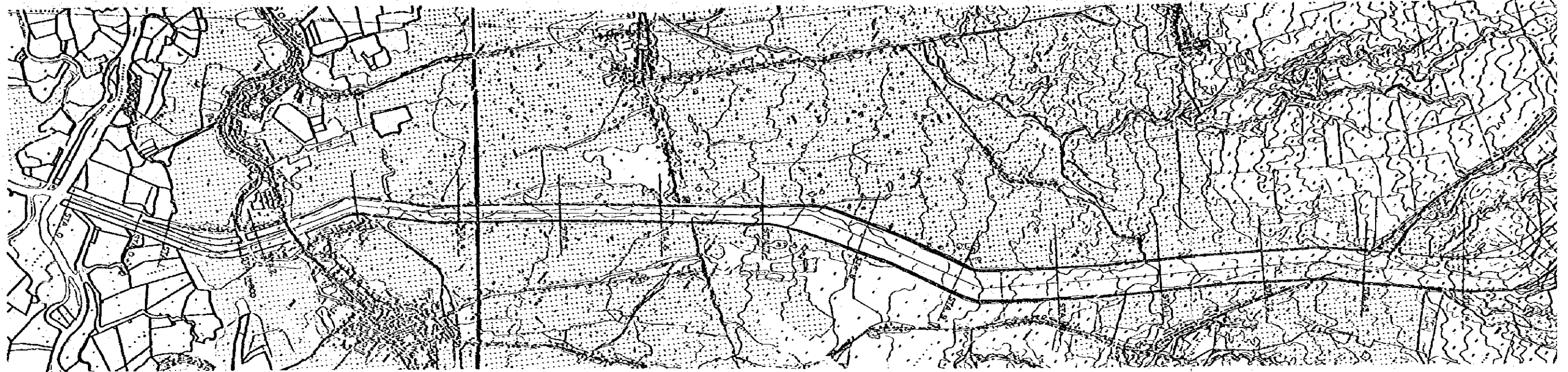


図V-5 砂防ダム完成による流砂量の変化(最大洪水時, 基準点)



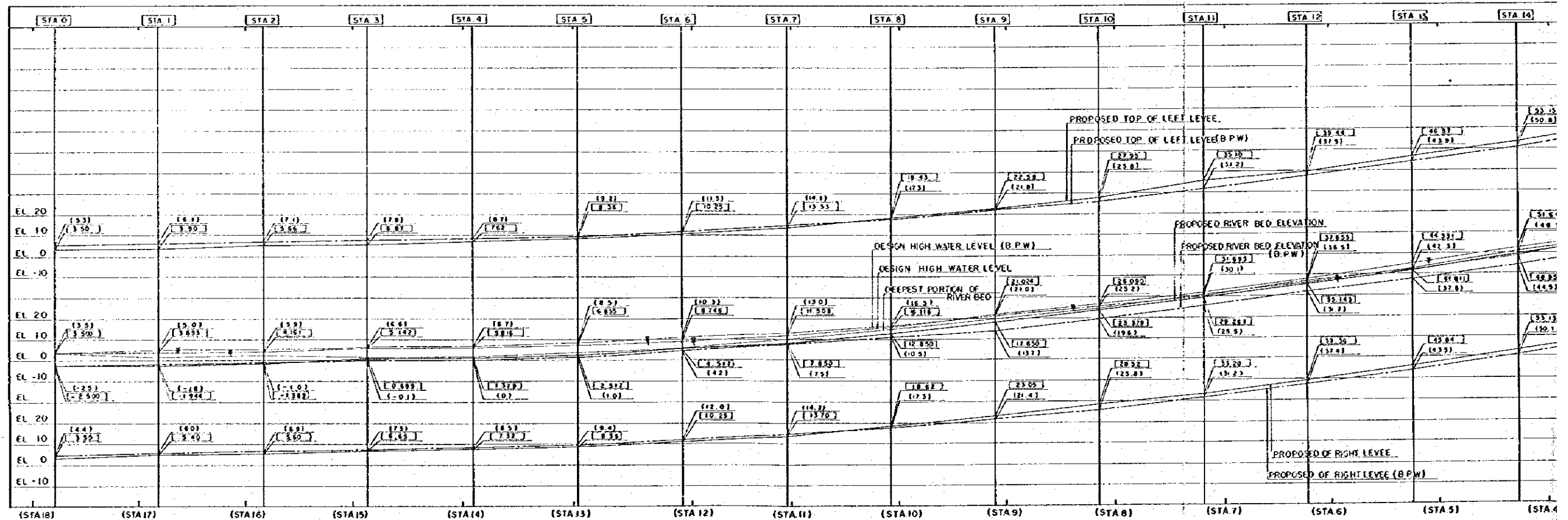
図Ⅳ-6 公共事業局案及び計画案の比較図(2-1)

PLAN



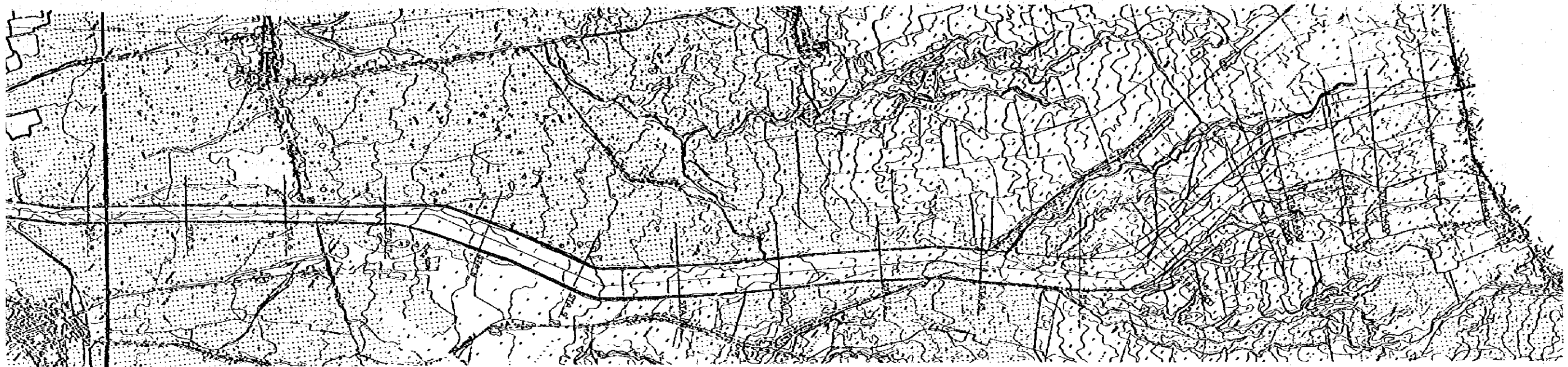
NOTE : ——— (B.P.W) (EL)
 ——— PROPOSED (EL)

PROFILE

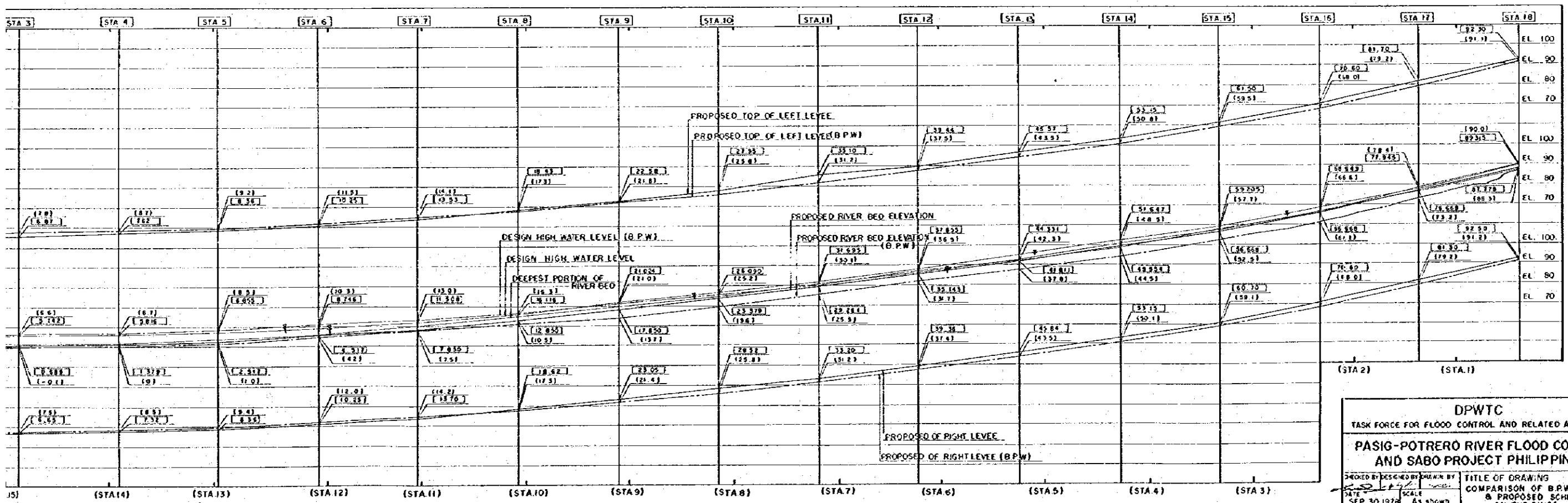
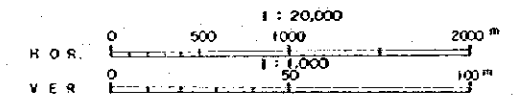


図N-6 公共事業局案及び計画案の比較図(2-1)

PLAN



PROFILE



DPWTC
TASK FORCE FOR FLOOD CONTROL AND RELATED ACTIVITIES

PASIG-POTRERO RIVER FLOOD CONTROL AND SABO PROJECT PHILIPPINES

DESIGNED BY: [Name] DRAWN BY: [Name] TITLE OF DRAWING: COMPARISON OF B.P.W.'S & PROPOSED SCHEMES ON THE RIVER PLAN AND PROFILE (2-1)

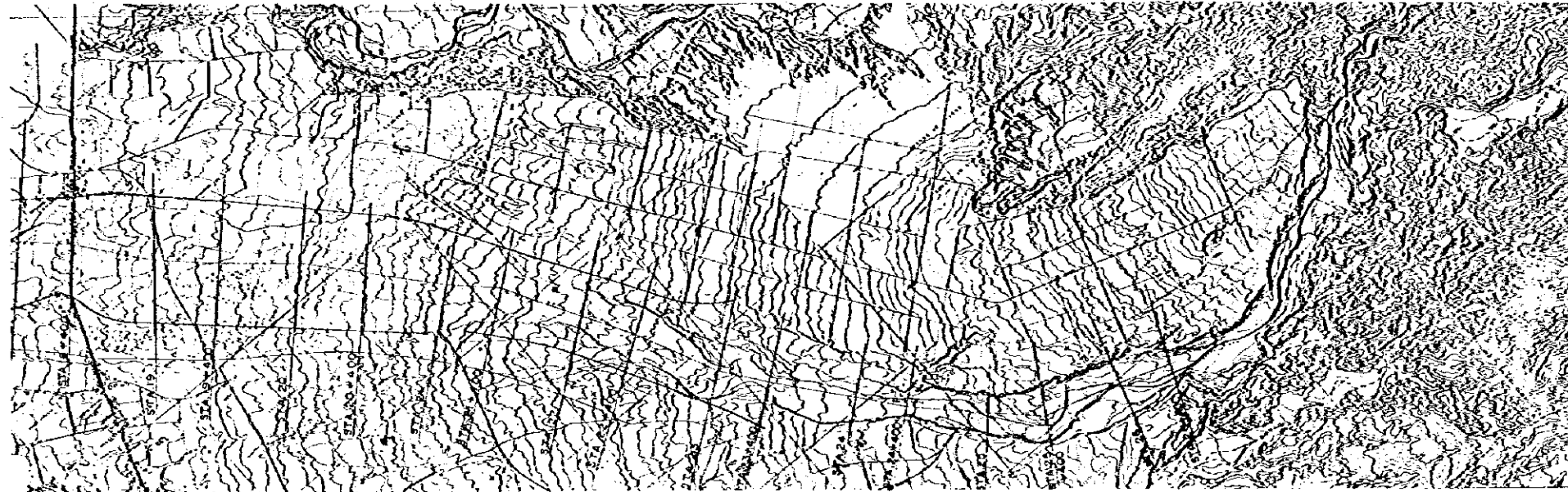
DATE: SEP. 30, 1978 SCALE: AS SHOWN

DRAWING NO. PPF 131

JAPAN INTERNATIONAL COOPERATION AGENCY

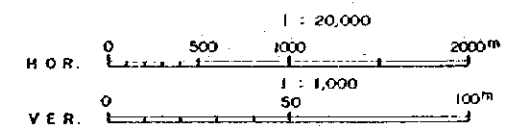
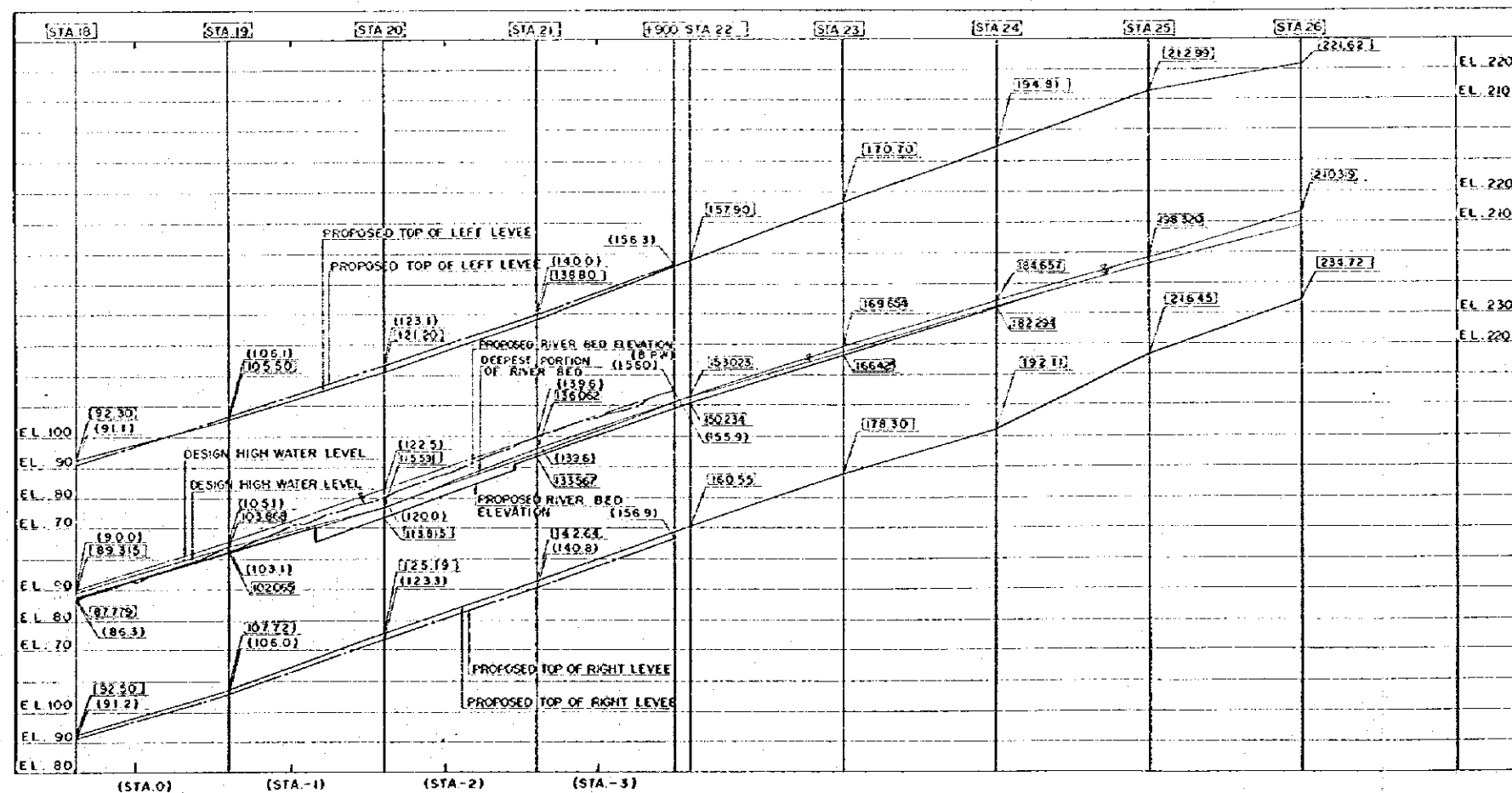
図N-7 公共事業局案及び計画案の比較図(2-2)

PLAN

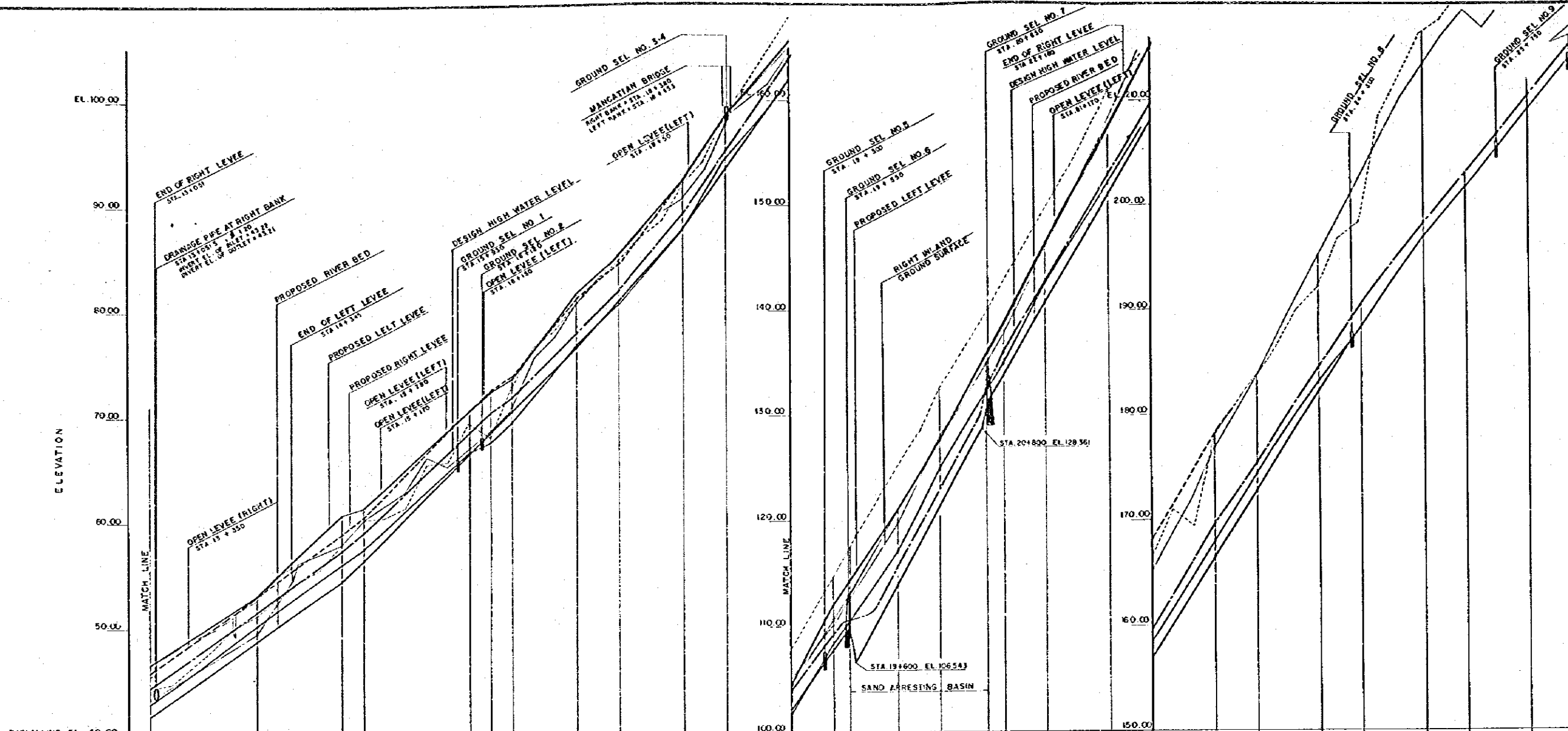


PROFILE

NOTE: ——— (B. P. W) (EL)
 ——— [PROPOSED] (EL)



DPWTC	
TASK FORCE FOR FLOOD CONTROL AND RELATED ACTIVITIES	
PASIG-POTRERO RIVER FLOOD CONTROL AND SABO PROJECT PHILIPPINES	
CHECKED BY: _____ DATE: SEP. 30, 1978 DRAWING NO: P.P.F.S. 132	DESIGNED BY: _____ SCALE: As shown TITLE OF DRAWING: COMPARISON OF B.P.W'S & PROPOSED SCHEMES ON THE RIVER PLAN AND PROFILE(2-2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



DATUM LINE = EL. 40.00	MATCH LINE		MATCH LINE		MATCH LINE	
PROPOSED RIVER BED GRADIENT	1/140	1/100	1/90	1/70	1/55	1/60
PROPOSED RIVER BED ELEVATION	41.81	41.99	42.05	42.11	42.17	42.23
DESIGN HIGH WATER LEVEL	46.33	46.47	46.61	46.75	46.89	47.03
TOP OF PROPOSED RIGHT LEVEE	45.84	45.98	46.12	46.26	46.40	46.54
TOP OF PROPOSED LEFT LEVEE	48.37	48.51	48.65	48.79	48.93	49.07
DEEPEST PORTION OF RIVER BED	42.44	42.58	42.72	42.86	43.00	43.14
CUMULATIVE DISTANCE	0.000	4.000	8.000	12.000	16.000	20.000
DISTANCE	0	400	800	1200	1600	2000
STATION NO.	13+000	14+000	15+000	16+000	17+000	18+000

図 IV - 9 計画縦断線形図 (2 - 2)

SCALE HORIZONTAL 1 : 20000
VERTICAL 1 : 200

DPWTC
TASK FORCE FOR FLOOD CONTROL AND RELATED ACTIVITIES

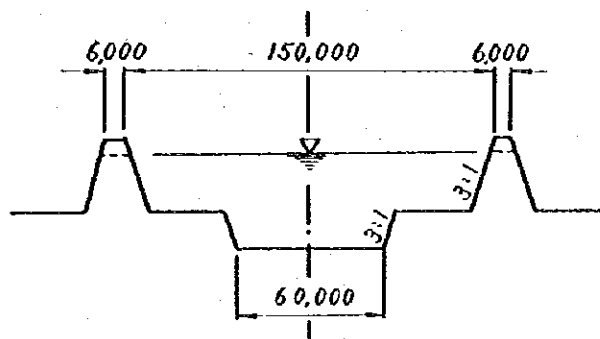
PASIG-POTRERO RIVER FLOOD CONTROL AND SABO PROJECT PHILIPPINES

DESIGNED BY: [Signature] DRAWN BY: [Signature] TITLE OF DRAWING: PROFILE 2 - 2
SCALE: As shown
DATE: SEP. 30, 1978
PPFS 109

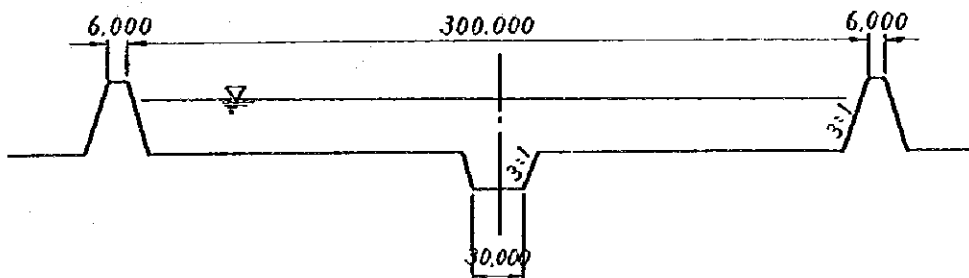
JAPAN INTERNATIONAL COOPERATION AGENCY

図N-10 パシグ・ポトレロ川の計画標準断面図

(STA. 0 ~ STA. 4+300)



(STA. 7 ~ STA. 16)



図IV-11 貯砂池施設の平面図

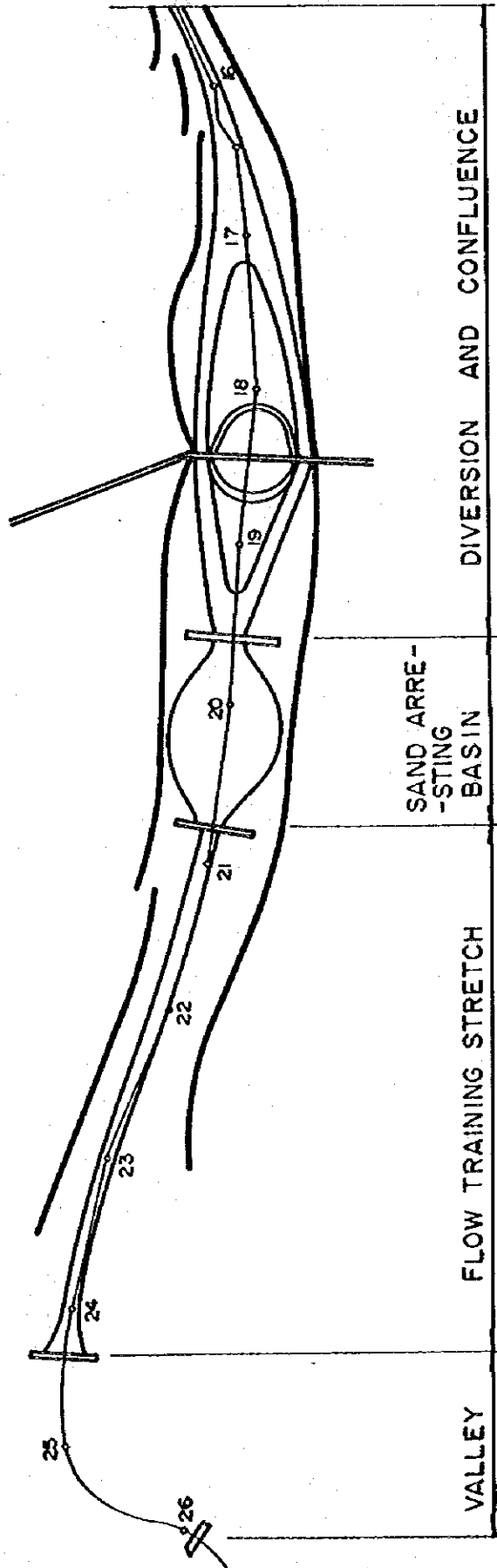

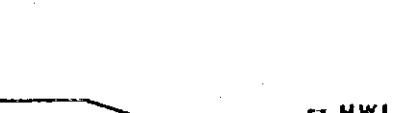
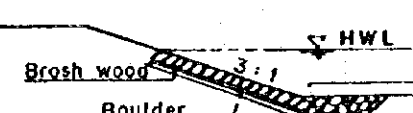
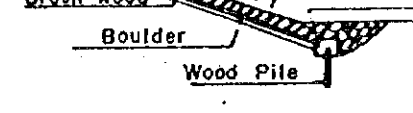
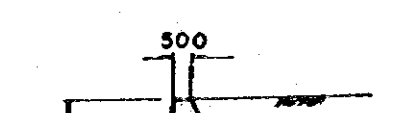

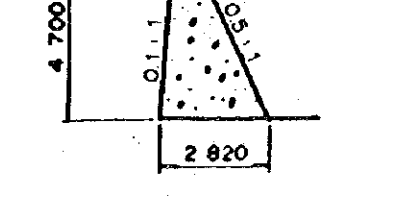
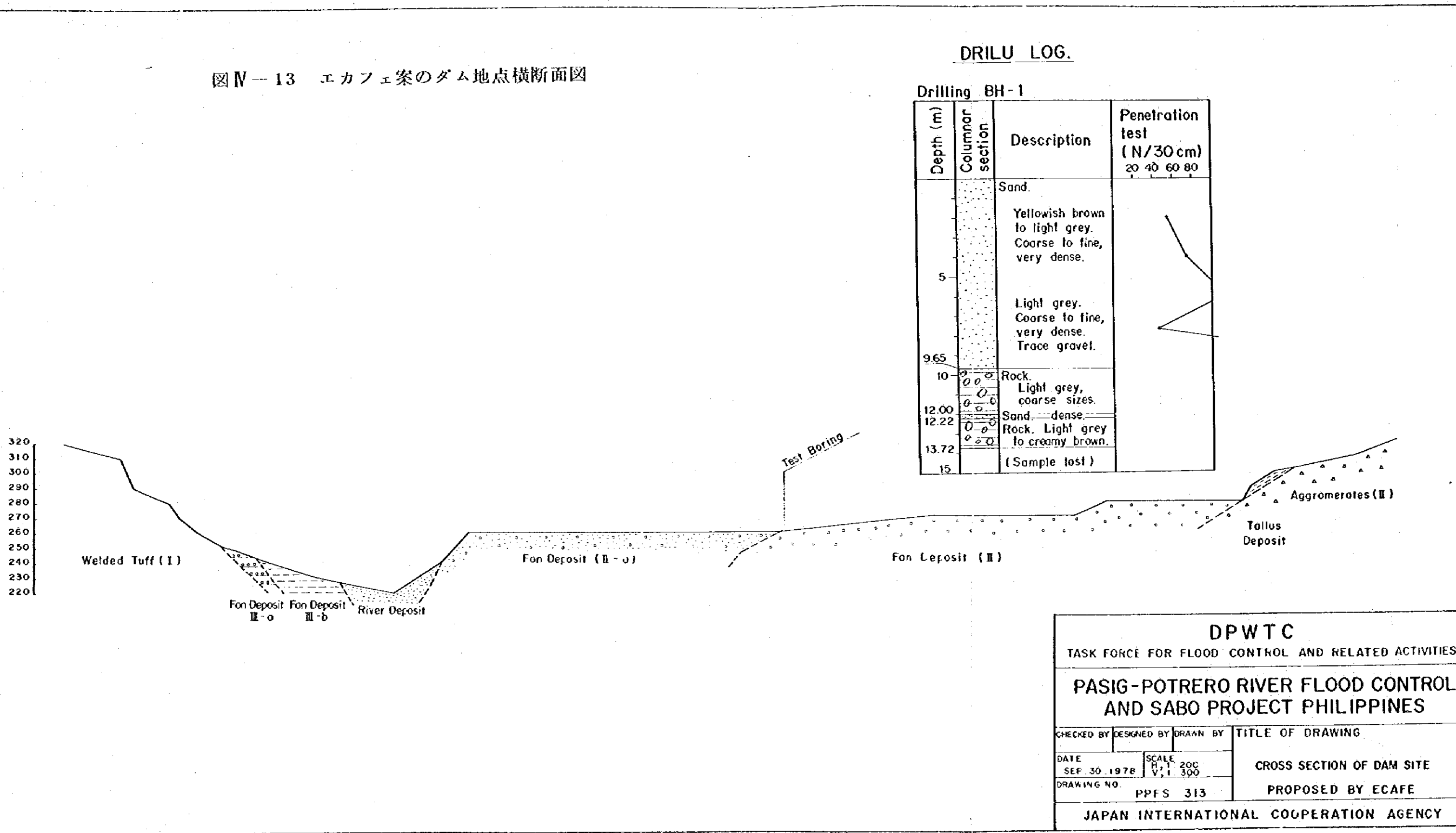


図 IV - 12 計画河川構造物

WORKS	TYPICAL SECTION	LOCATION	REFERENCE
<p>LEVEE TYPE 1</p>		<p>LEFT STA 1+380 ~ STA 2+500 STA 19+500 ~ STA 23+00 RIGHT STA 1+0 ~ STA 2+800 STA 13+500 ~ STA 19+400 STA 22+100 ~ STA 23+800</p>	<p>NEW EMBANKMENT</p>
<p>TYPE 2</p>		<p>LEFT STA 0+50 ~ STA 1+580 RIGHT STA 0+50 ~ STA 1+0</p>	<p>PROVISIONAL LEVEE</p>
<p>TYPE 3</p>		<p>LEFT STA 2+500 ~ STA 6+550 RIGHT STA 2+500 ~ STA 7+700 STA 10+750 ~ STA 18+0</p>	<p>WIDENING</p>
<p>REVETMENT TYPE 1</p>		<p>LEFT STA 0+50 ~ STA 4+300 STA 13+180 ~ STA 16+850 STA 17+50 ~ STA 18+350 RIGHT STA 0+50 ~ STA 4+200 STA 13+50 ~ STA 14+0 STA 17+50 ~ STA 18+300 STA 22+00 ~ STA 23+20</p>	<p>HIGH WATER REVETMENT</p>
<p>TYPE 2</p>		<p>STA 2+330 STA 4+200</p>	<p>LOW WATER REVETMENT</p>
<p>TYPE 3</p>		<p>LEFT STA 7+0 ~ STA 9+250 RIGHT STA 8+0 ~ STA 9+280 STA 13+350 ~ STA 14+0</p>	<p>LAND SIDE REVETMENT</p>
<p>RETAINING WALL</p>		<p>STA 18+300 ~ STA 19+400</p>	

WORKS	TYPICAL SECTION	LOCATION	REFERENCE
<p>GROYNE</p> <p>TYPE 1</p> <p>TYPE 2</p>		<p>VALLEY</p> <p>SAND ARRESTING STRETCH</p> <p>CURVING PORTION</p>	<p>THE PORTION WHERE SAND GRAIN SIZE IS LARGE</p> <p>THE PORTION WHERE SAND GRAIN SIZE IS SMALL</p>
<p>GROUND SEL</p> <p>TYPE 1</p> <p>TYPE 2</p>		<p>STA. 26+400</p> <p>STA. 25+700</p> <p>STA. 19+300</p> <p>STA. 18+3.00 x 2</p> <p>STA. 16+150</p> <p>STA. 15+900</p> <p>STA. 19+550</p> <p>STA. 20+850</p>	<p>B = 70m H = 2.5m</p> <p>B = 100m H = 2.5m</p>

図 IV-13 エカフェ案のダム地点横断面図



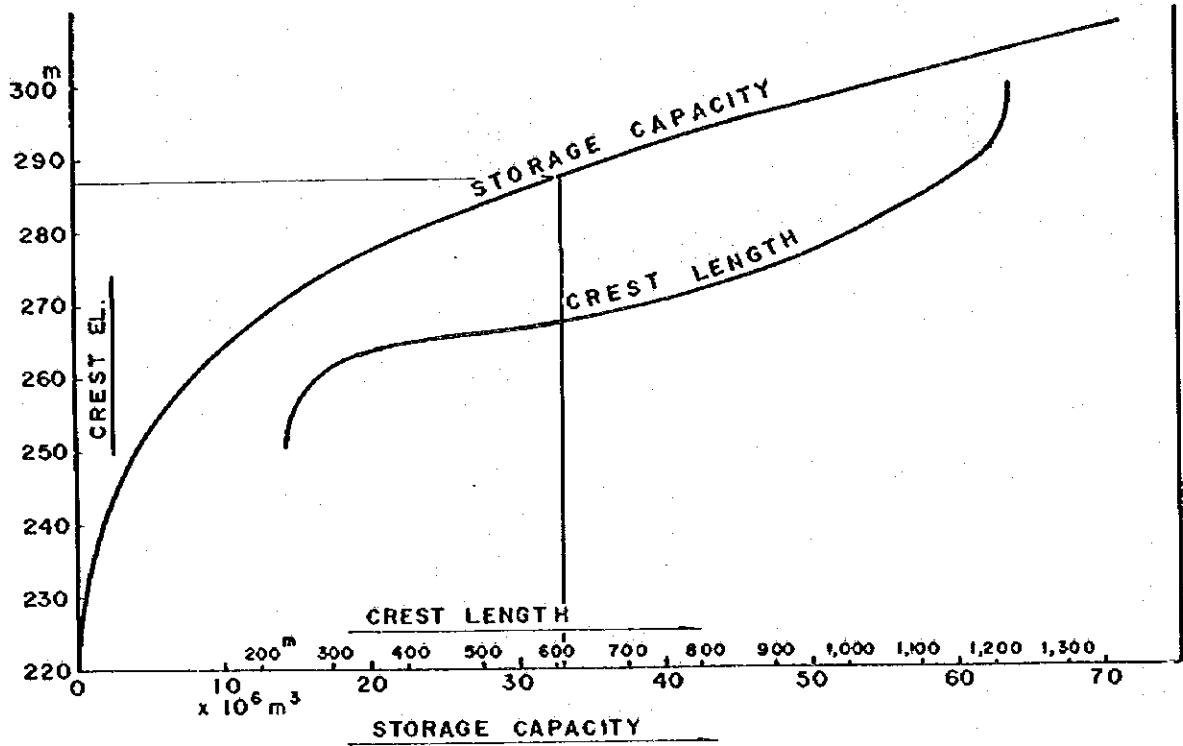
DRILU LOG.

Drilling BH-1

Depth (m)	Columnar section	Description	Penetration test (N/30 cm)			
			20	40	60	80
0 - 9.65		Sand. Yellowish brown to light grey. Coarse to fine, very dense. Light grey. Coarse to fine, very dense. Trace gravel.	[Penetration test graph showing values increasing with depth]			
9.65 - 10.00		Rock. Light grey, coarse sizes.				
10.00 - 12.00		Sand, dense.				
12.00 - 12.22		Rock. Light grey to creamy brown.				
12.22 - 13.72		(Sample lost)				
13.72 - 15		(Sample lost)				

DPWTC			
TASK FORCE FOR FLOOD CONTROL AND RELATED ACTIVITIES			
PASIG-POTRERO RIVER FLOOD CONTROL AND SABO PROJECT PHILIPPINES			
CHECKED BY	DESIGNED BY	DRAWN BY	TITLE OF DRAWING
DATE SEP. 30. 1978	SCALE H, 1 200 V, 1 300		CROSS SECTION OF DAM SITE
DRAWING NO. PPFS 313			PROPOSED BY ECAFE
JAPAN INTERNATIONAL COOPERATION AGENCY			

図 IV-14 貯水容量曲線及びダム堤頂長さ曲線



DAM VOLUME CURVE

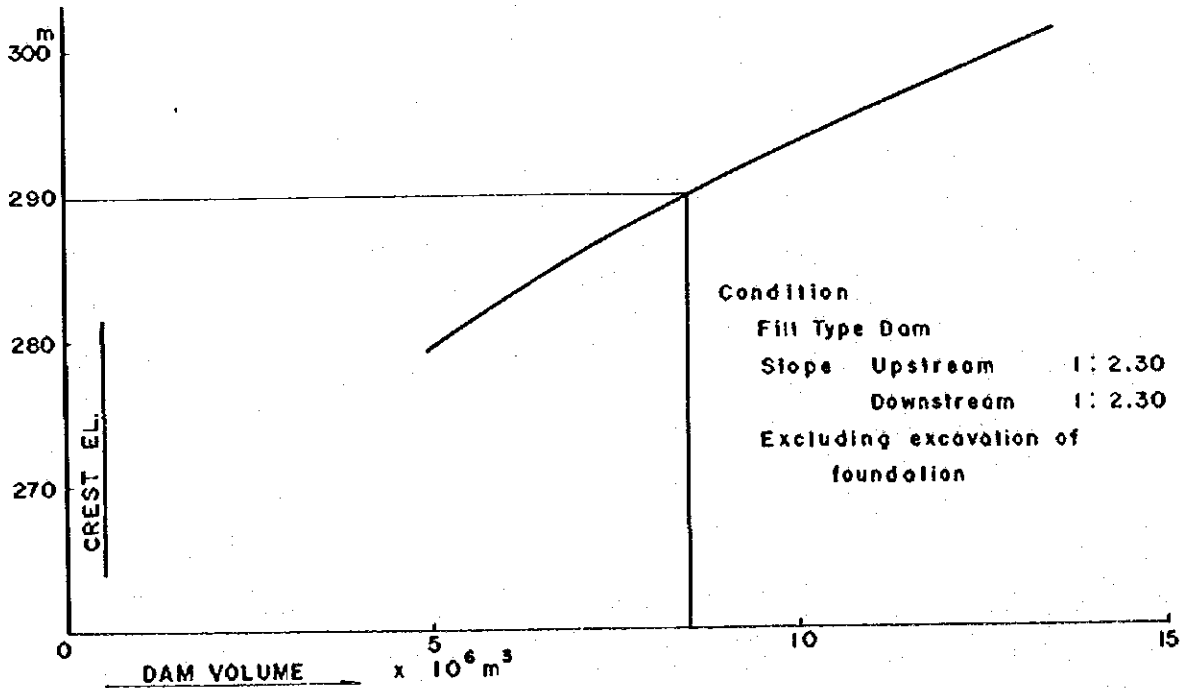


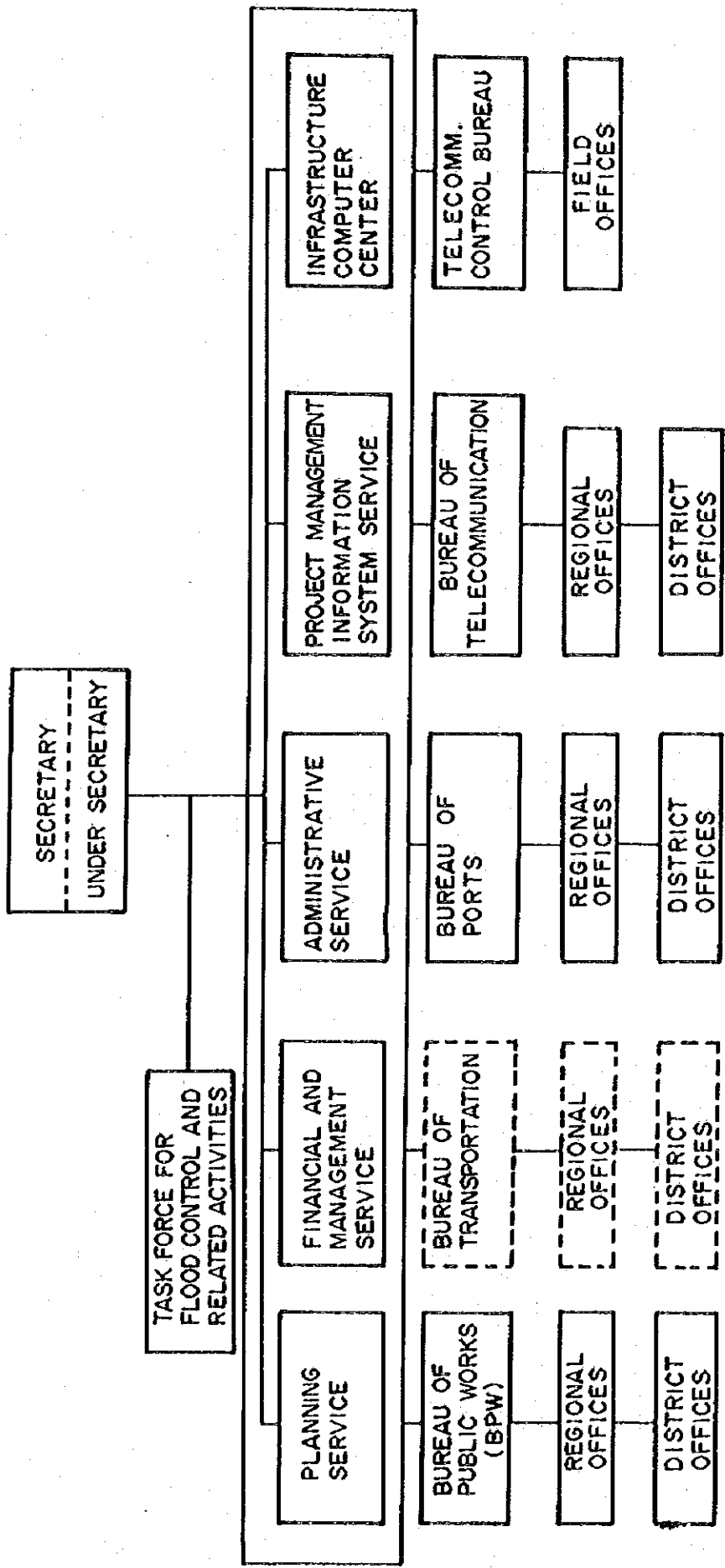
図 V-1 施工行程表

WORK	QUANTITY in m ³	1st. Year			2nd. Year			3rd. Year			4th. Year			5th. Year			6th. Year			7th. Year			8th. Year			9th. Year			10th. Year			11th. Year			12th. Year			
		3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	3	6	9	
Sabo Works																																						
No.5 Dam	6,870				<u>P.W.</u>	<u>E&C.W.</u>					<u>E & C.W.</u>																											
No.4-A Dam	6,920				<u>P.W.</u>						<u>E & C.W.</u>																											
No.3 Dam	7,110							<u>P.W.</u>	<u>E & C.W.</u>	<u>E&C.W.</u>																												
No.1-D Con.W	22,890								<u>P.W.</u>	<u>E&C.W.</u>				<u>E&C.W.</u>	<u>C.W.</u>	<u>C.W.</u>																						
No.2-B Dam	10,870								<u>P.W.</u>	<u>E&C.W.</u>				<u>E&C.W.</u>																								
No.2-A Dam	11,300										<u>P.W.</u>	<u>E&C.W.</u>		<u>E & C.W.</u>																								
No.4-B Dam	7,280													<u>P.W.</u>	<u>E & C.W.</u>	<u>E&C.W.</u>																						
No.1-C Con.W	11,950														<u>P.W.</u>	<u>E&C.W.</u>				<u>E&C.W.</u>		<u>E&C.W.</u>		<u>C.W.</u>														
No.4-C Dam	5,830														<u>P.W.</u>	<u>E & C.W.</u>				<u>E&C.W.</u>																		
No.1-B Con.W	13,220																			<u>P.W.</u>	<u>E&C.W.</u>		<u>E&C.W.</u>															
No.4-D Dam	8,520																						<u>P.W.</u>	<u>E&C.W.</u>		<u>E&C.W.</u>												
No.1-A Con.W	16,390																							<u>P.W.</u>	<u>E&C.W.</u>		<u>E&C.W.</u>		<u>E&C.W.</u>		<u>E&C.W.</u>		<u>C.W.</u>					
No.4-E Dam	7,130																																					
No.4-F Dam	5,760																										<u>P.W.</u>	<u>E&C.W.</u>		<u>E&C.W.</u>		<u>E&C.W.</u>		<u>E&C.W.</u>		<u>E&C.W.</u>		<u>E&C.W.</u>
River Improvement Works																																						
Preparatory work		—																																				
Excavation work	4,210,000	—			—			—			—			—																								
Embankment work	700,000	—			—			—			—			—																								
Structural works		—			—			—			—			—																								

P.W. : Preparatory Work, E & C.W. : Earth and Concrete Work, Con.W. : River Bed Consolidation Work.

Dam Quantity is Concrete Volume. Structural Works include Levee Revetment, Groyne, Ground-Sel and Drainage Facility.

図 VI-1 公共事業通信運輸省 (M.P.W.T.C) の組織図



[] = Not Operational

図 VI - 2 公共事業局 (B.P.W) の組織図

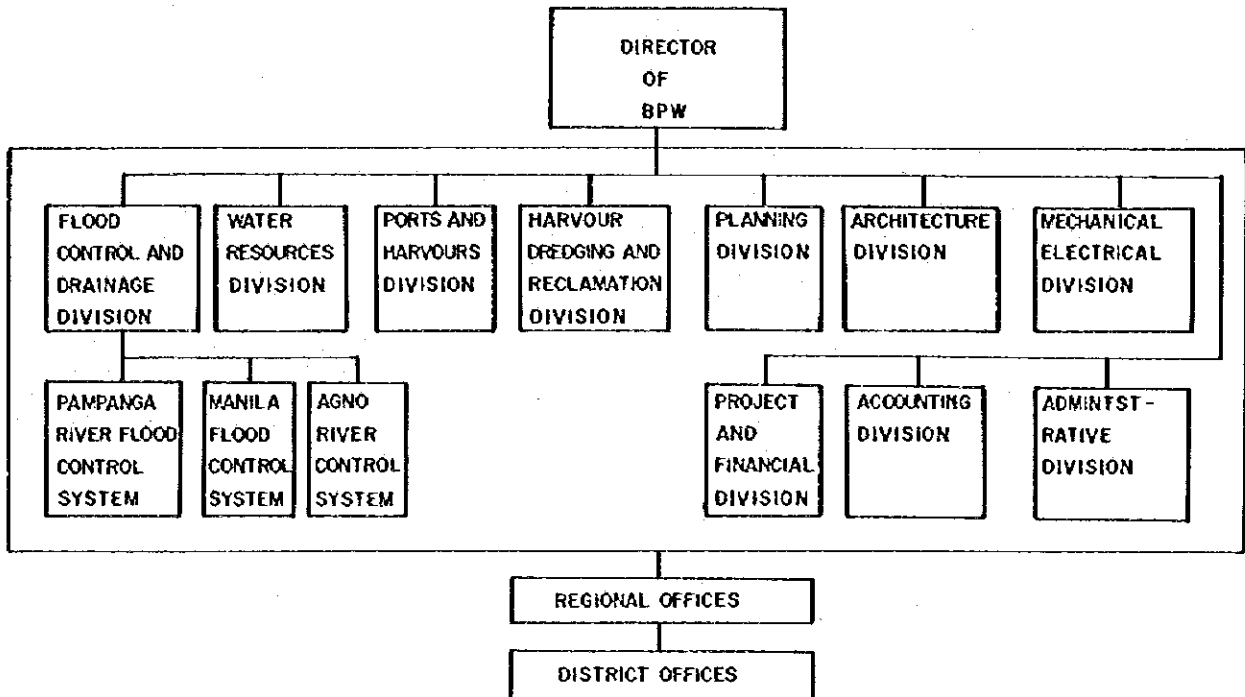


図 VI - 3 パンパンガ洪水防御システム (PRCS) の組織図

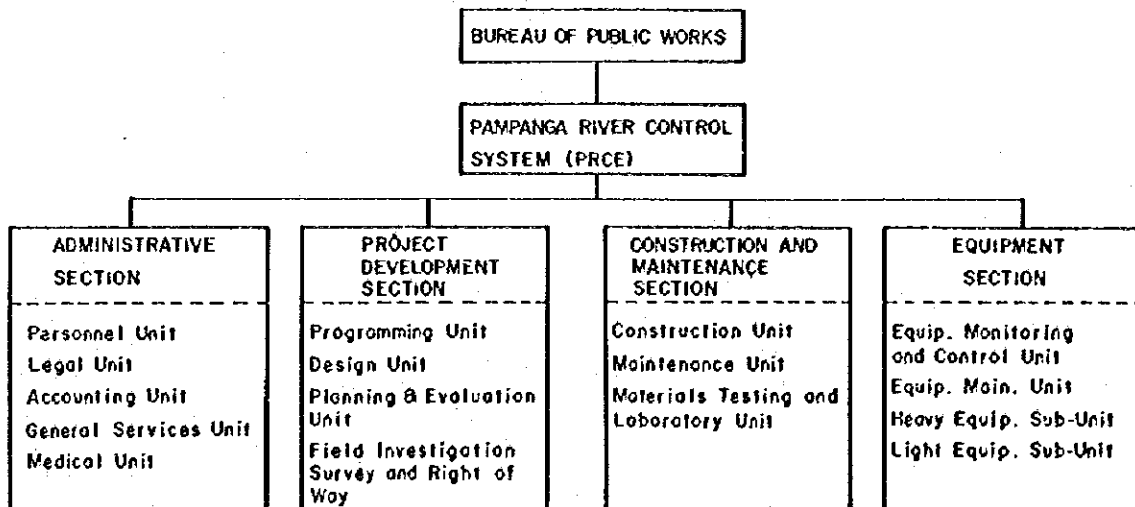


図 VI-4 洪水防御並びに関連事業のためのタスクフォーク (TFFCRA) の組織図

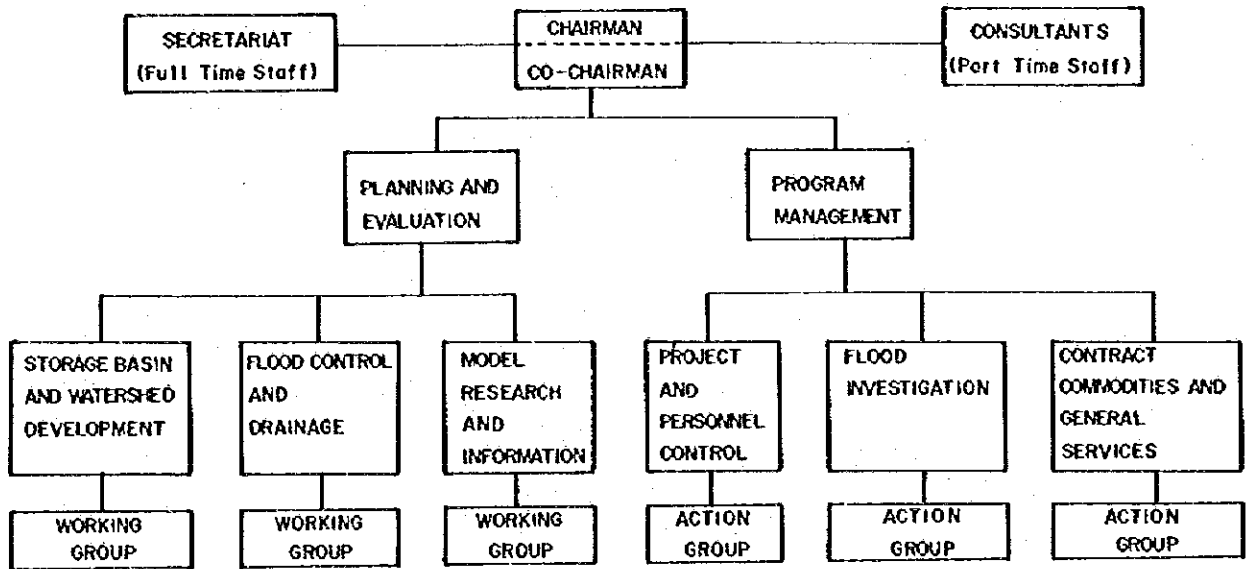
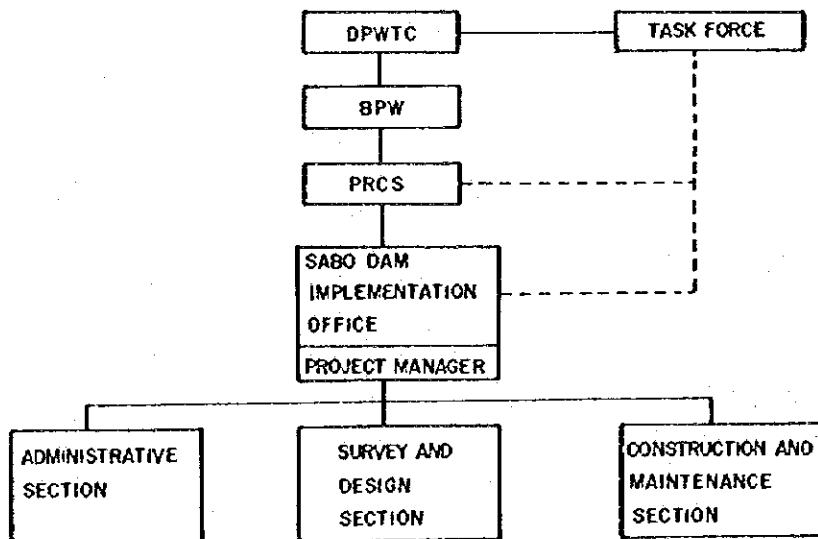
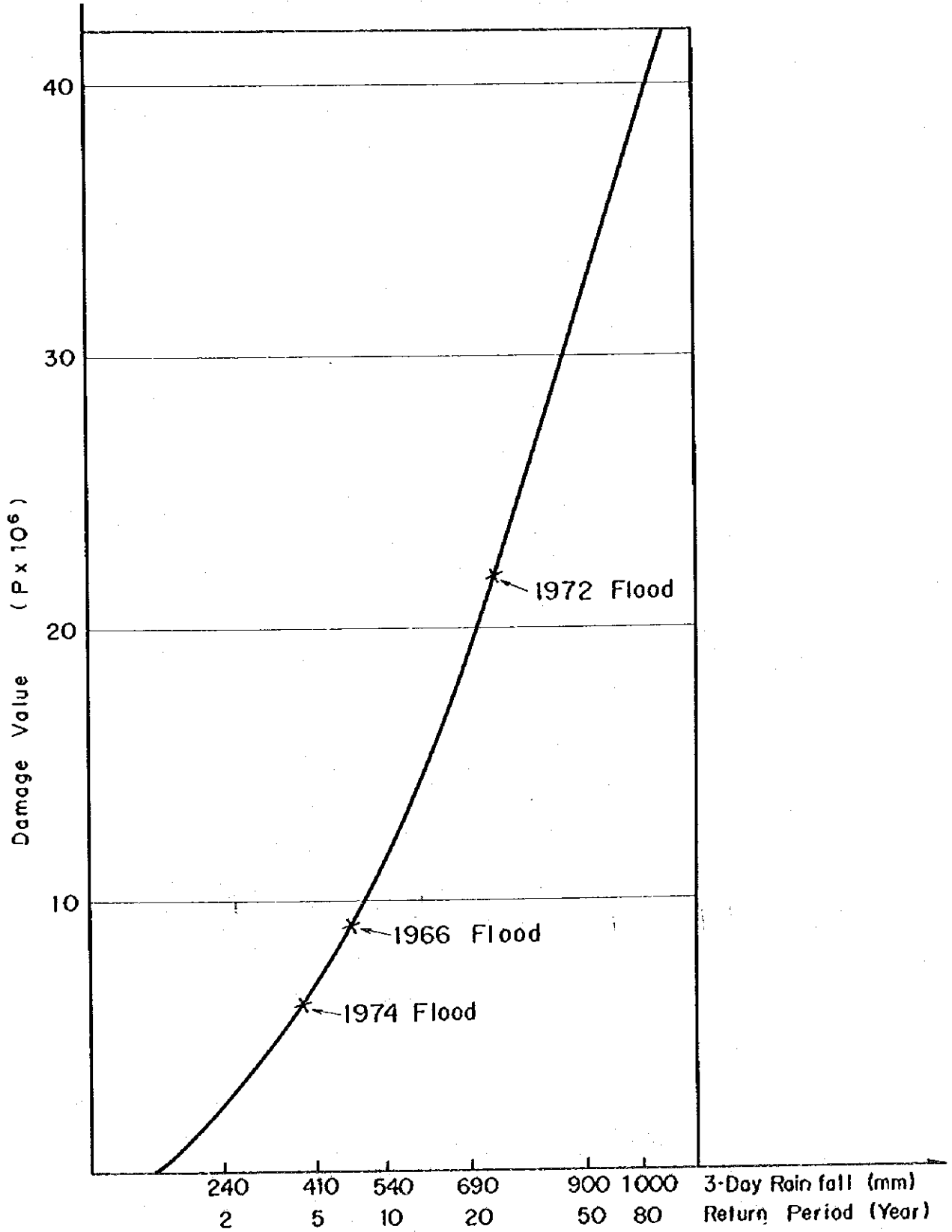


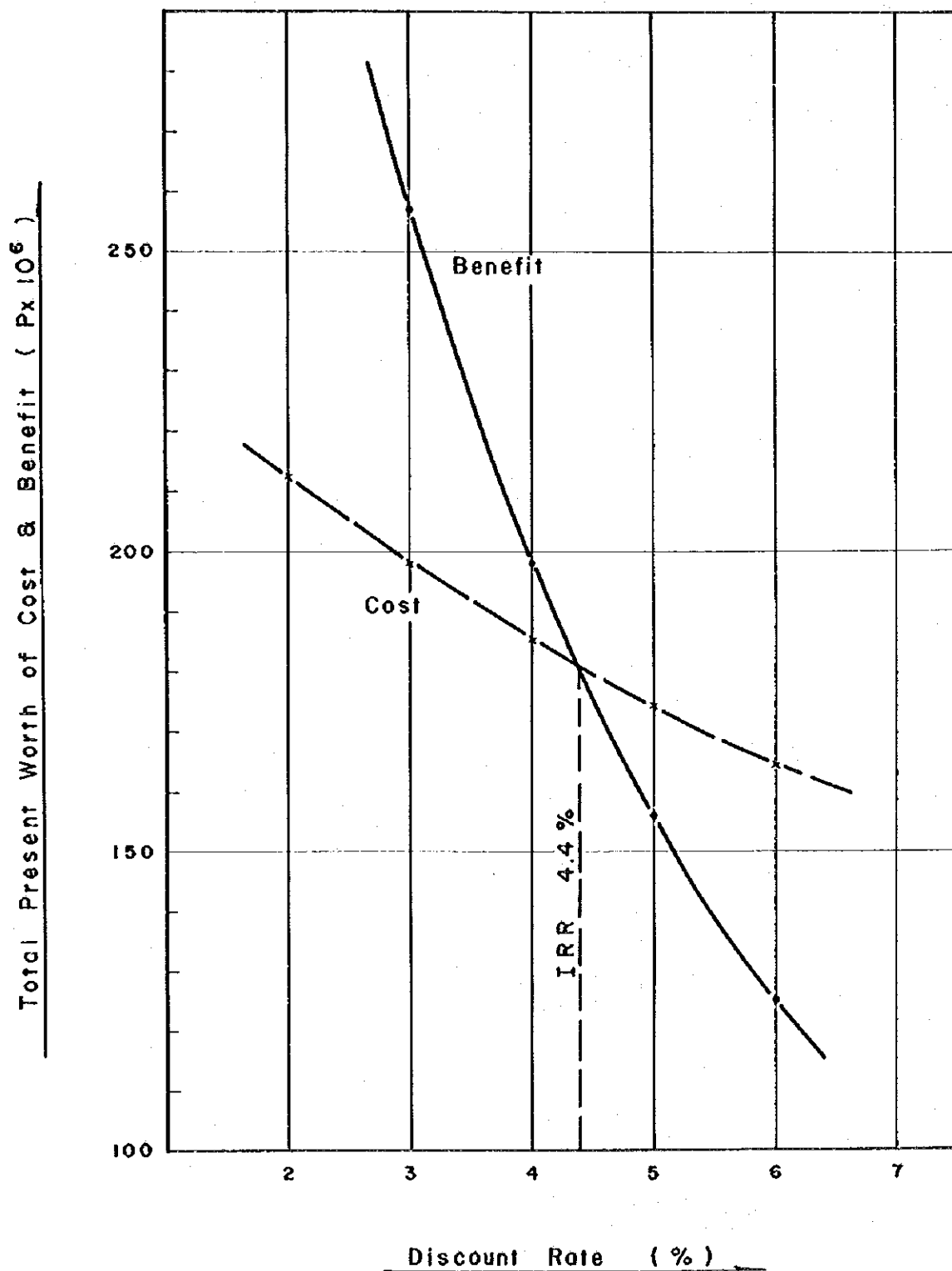
図 VI-5 パシグ・ポトレロ砂防事業の組織案



図Ⅷ-1 洪水被害額相関曲線



図Ⅷ-2 事業の内部収益率曲線



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