

図-4.3.17 キナリ(A)川およびタリサイ川河川改修計画平面図

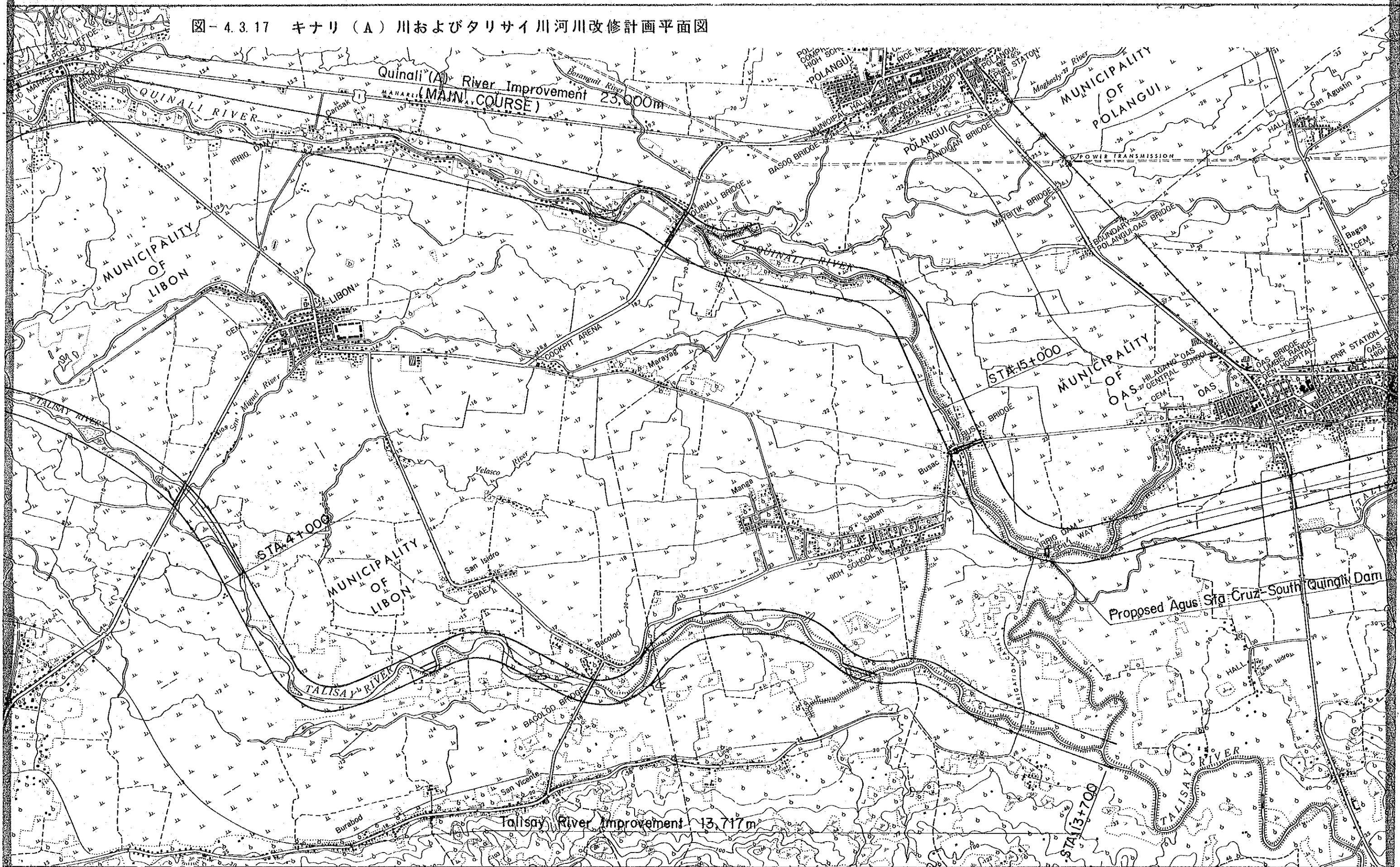




図-4.3.18 ナシシ川河川改修計画平面図

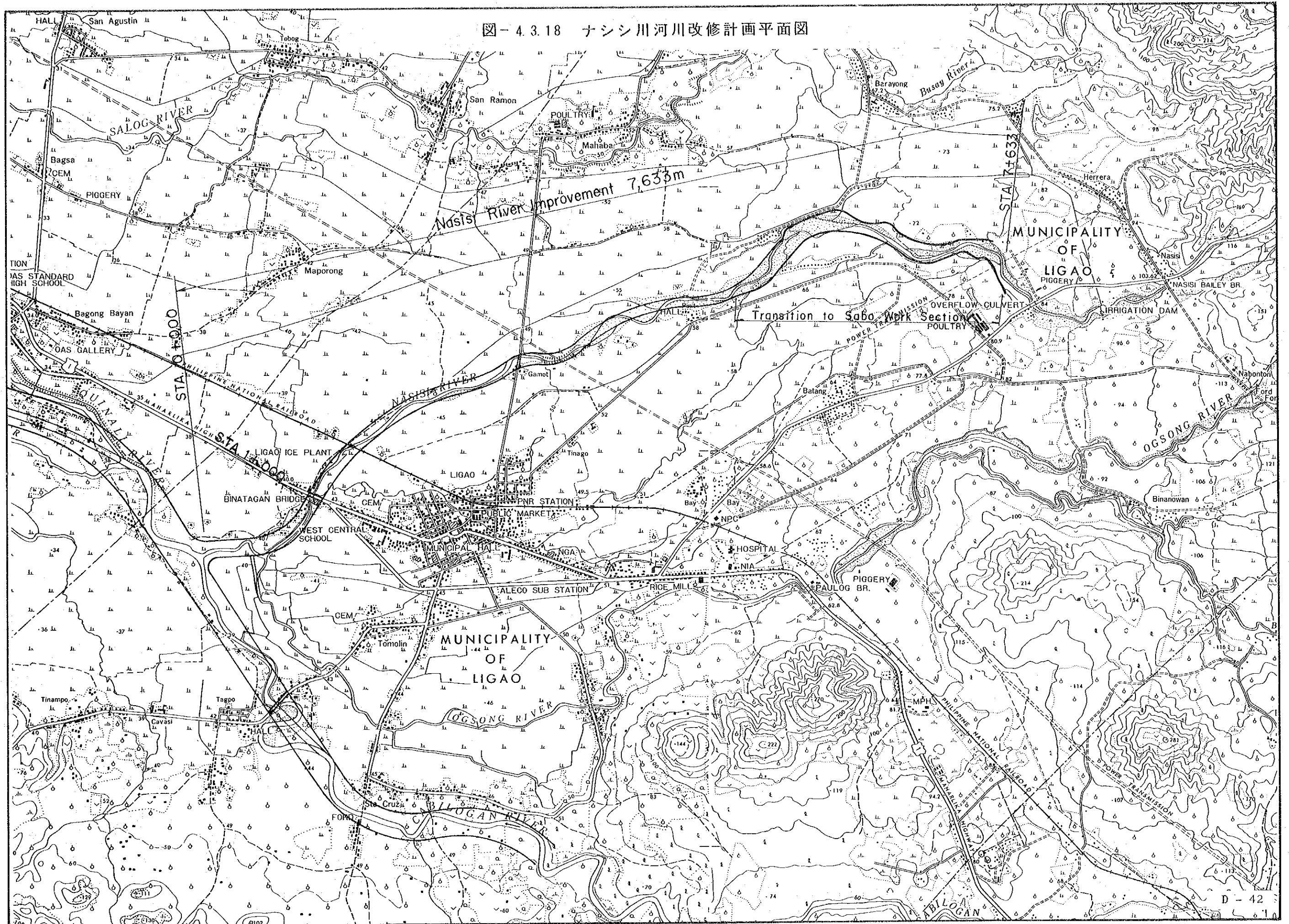
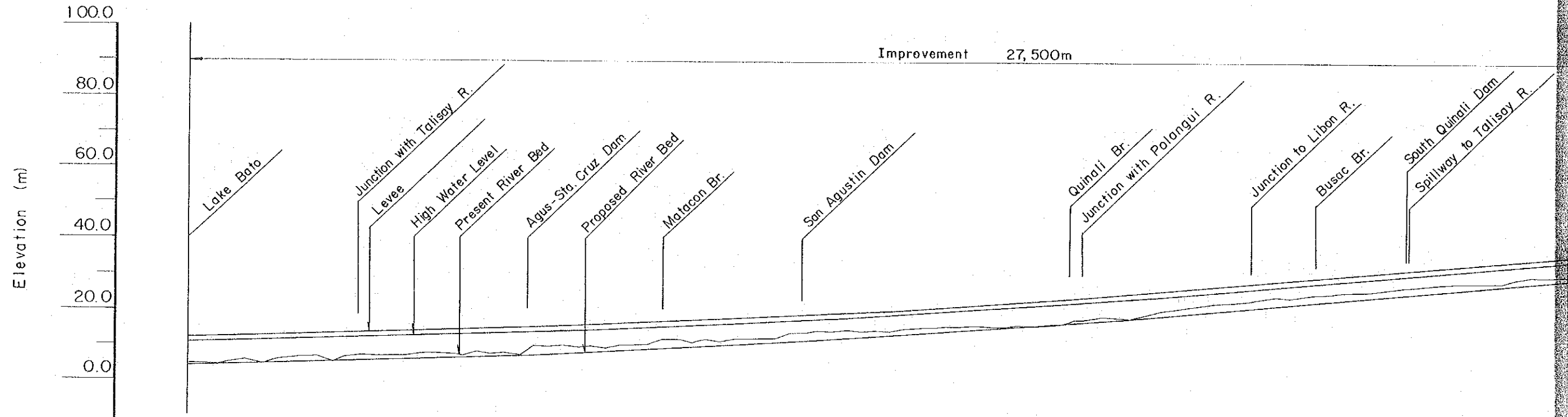
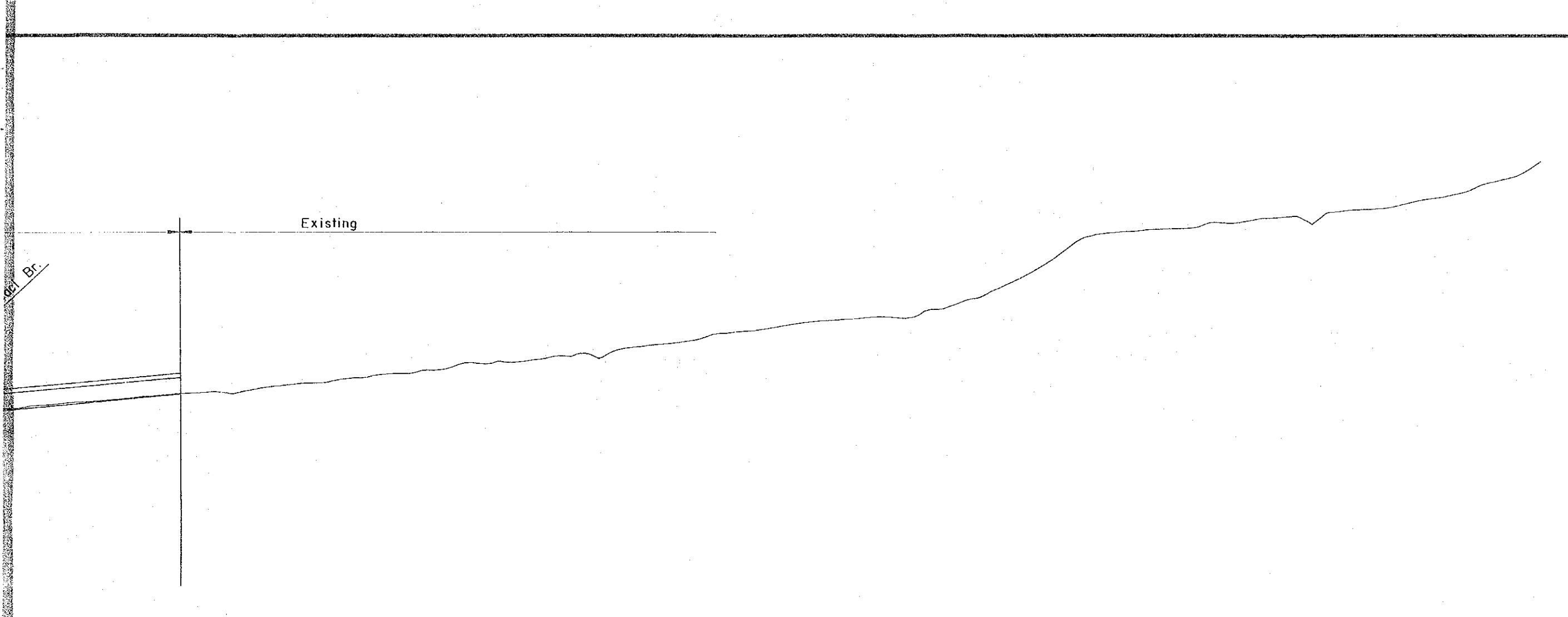


図-4.3.19 キナリ(A)川計画縦断面図



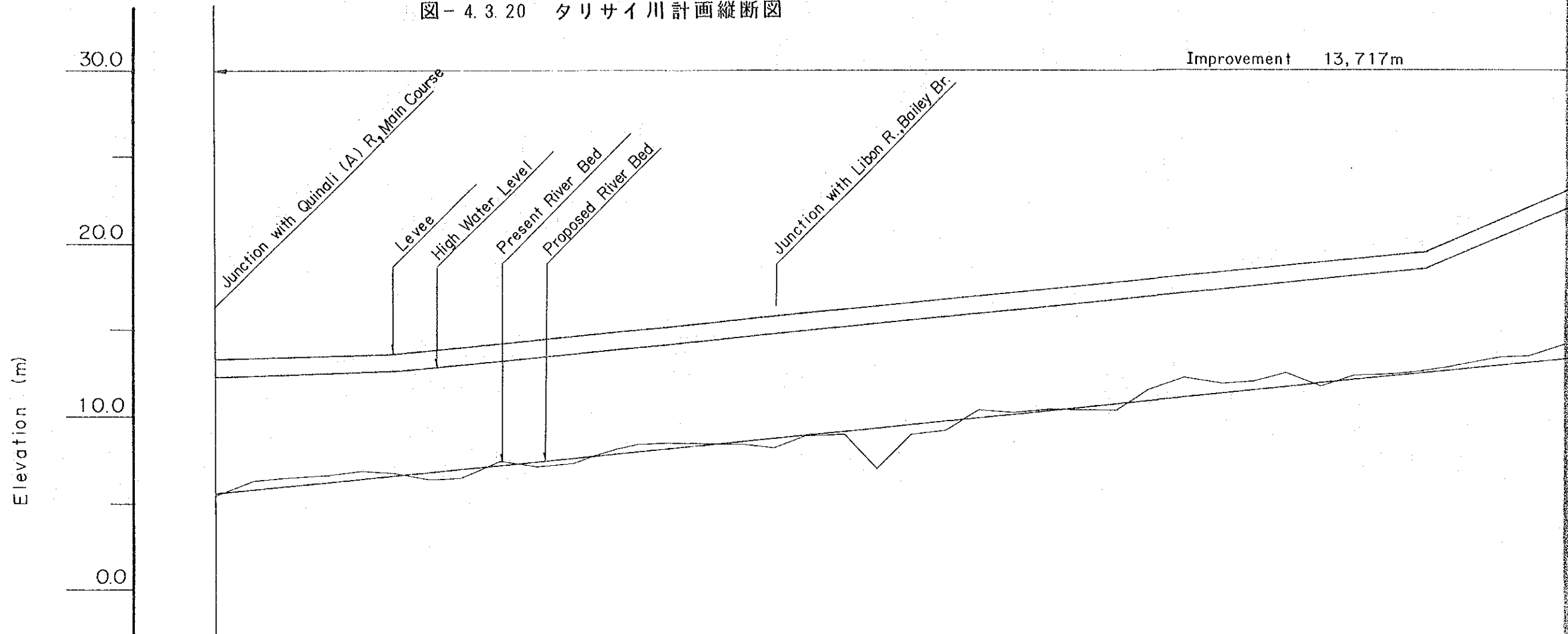
Proposed River Bed Gradient																									
Formation Height of Levee (EL.m)	11.99	12.64	13.28	13.66	14.30	14.53	15.53	16.52	17.52	18.67	20.10	21.53	22.96	24.40	25.86	27.68	29.50	31.32	33.14	34.96					
High Water Level (EL.m)	10.79	11.44	12.08	12.46	13.10	13.33	14.33	15.32	16.32	17.47	18.90	20.33	21.76	23.20	24.66	26.48	28.30	30.12	31.94	33.76					
Formation Height of River Bed (EL.m)	3.98	4.63	5.27	5.92	6.56	7.35	8.35	9.35	10.35	11.69	13.12	14.55	15.98	17.41	19.14	20.96	22.78	24.60	26.42	28.24					
Discharge (m <sup>3</sup> /s)		4,260			3,020				3,010									2,710							
Cumulative Distance (m)	0	1,000	2,000	2,341	3,000	4,000	4,600	5,000	6,000	7,000	8,000	8,200	9,000	10,000	11,000	12,000	12,512	13,000	13,200	14,000	15,000	16,000	17,000	18,000	19,000
Station No.	0+000	1+000	2+000	2+341	3+000	4+000	4+600	5+000	6+000	7+000	8+000	8+200	9+000	10+000	11+000	12+000	12+512	13+000	13+200	14+000	15+000	16+000	17+000	18+000	19+000





26+000	26,000	40.96	46.36	47.36
27+000	27,000	42.78	48.18	49.18
27+500	27,500	43.68	49.09	50.09
28+000	28,000			
29+000	29,000			
30+000	30,000			
31+000	31,000			
32+000	32,000			
33+000	33,000			
34+000	34,000			
35+000	35,000			
36+000	36,000			
37+000	37,000			
38+000	38,000			
39+000	39,000			
40+000	40,000			
41+000	41,000			
42+000	42,000			
43+000	43,000			
44+000	44,000			
45+000	45,000			
46+000	46,000			
46+627	46,627			
46+672	46,672			

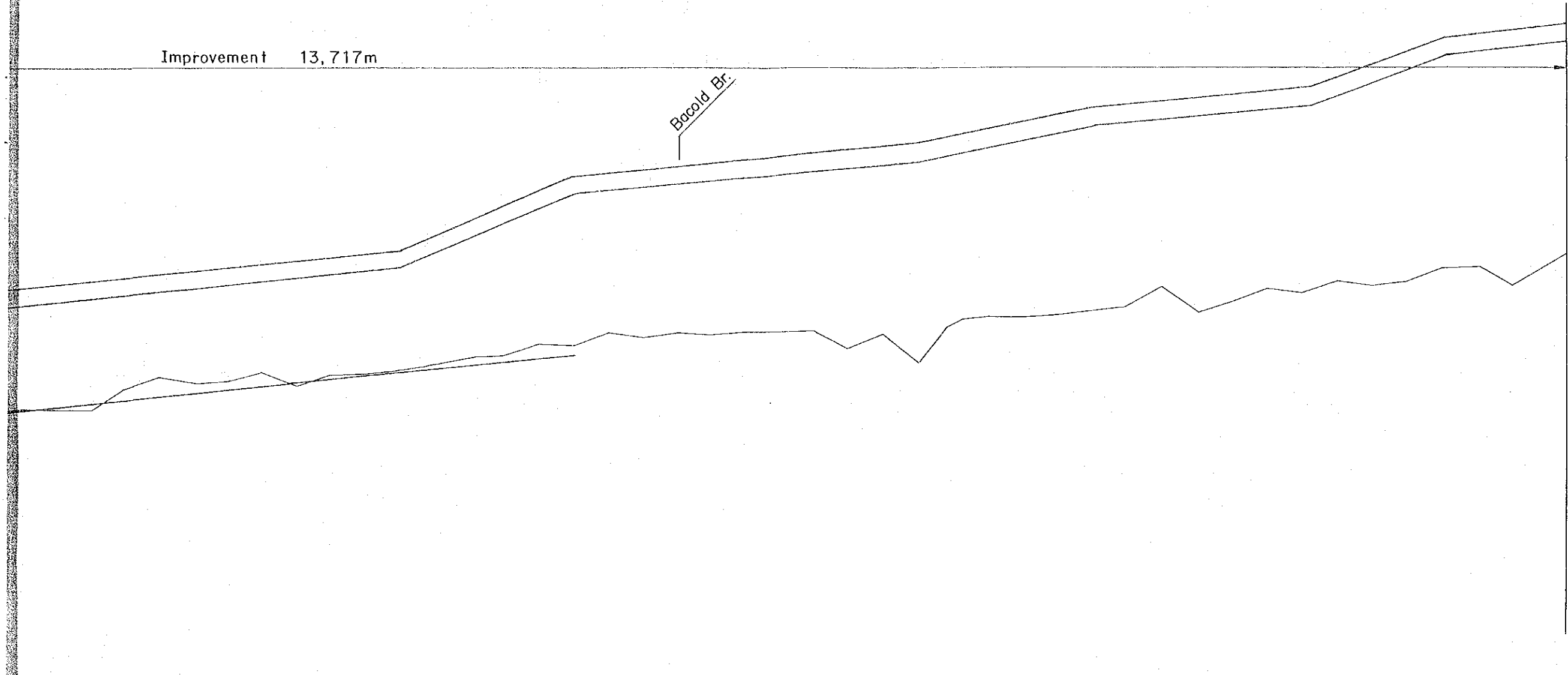
図-4.3.20 タリサイ川計画縦断面図



Proposed River Bed Gradient							
Formation Height of Levee (EL.m)	13.30 13.32	13.64	14.64	15.64	16.63	17.63	18.63 19.63
High Water Level (EL.m)	12.30 12.32	12.64	13.64	14.64	15.63	16.63	17.63 18.63
Formation Height of River Bed (EL.m)	5.49 5.51	6.51	7.51	8.51	9.51	10.51	11.51 12.51
Discharge (m <sup>3</sup> /s)							
Cumulative Distance (m)	0	1,000	2,000	3,000	3,266	4,000	5,000 6,000 7,000
Station No.	0+017 0+000	1+000	2+000	3+000	3+266	4+000	5+000 6+000 7+000

Improvement 13,717m

Bacold Br.



Station	Existing River Bed Slope $I = 1/1,000$	Existing River Bed Slope $I = 1/800$
5+000	17.63	10.51
6+000	18.63	11.51
7+000	19.63	12.51
8+000	23.77	13.51
9+000	24.77	23.77
10+000	25.77	24.77
11+000	27.86	26.86
12+000	28.86	27.86
13+000	31.71	30.71
13+700	32.59	31.59



図-4.3.21 ナシシ川計画縦断面図

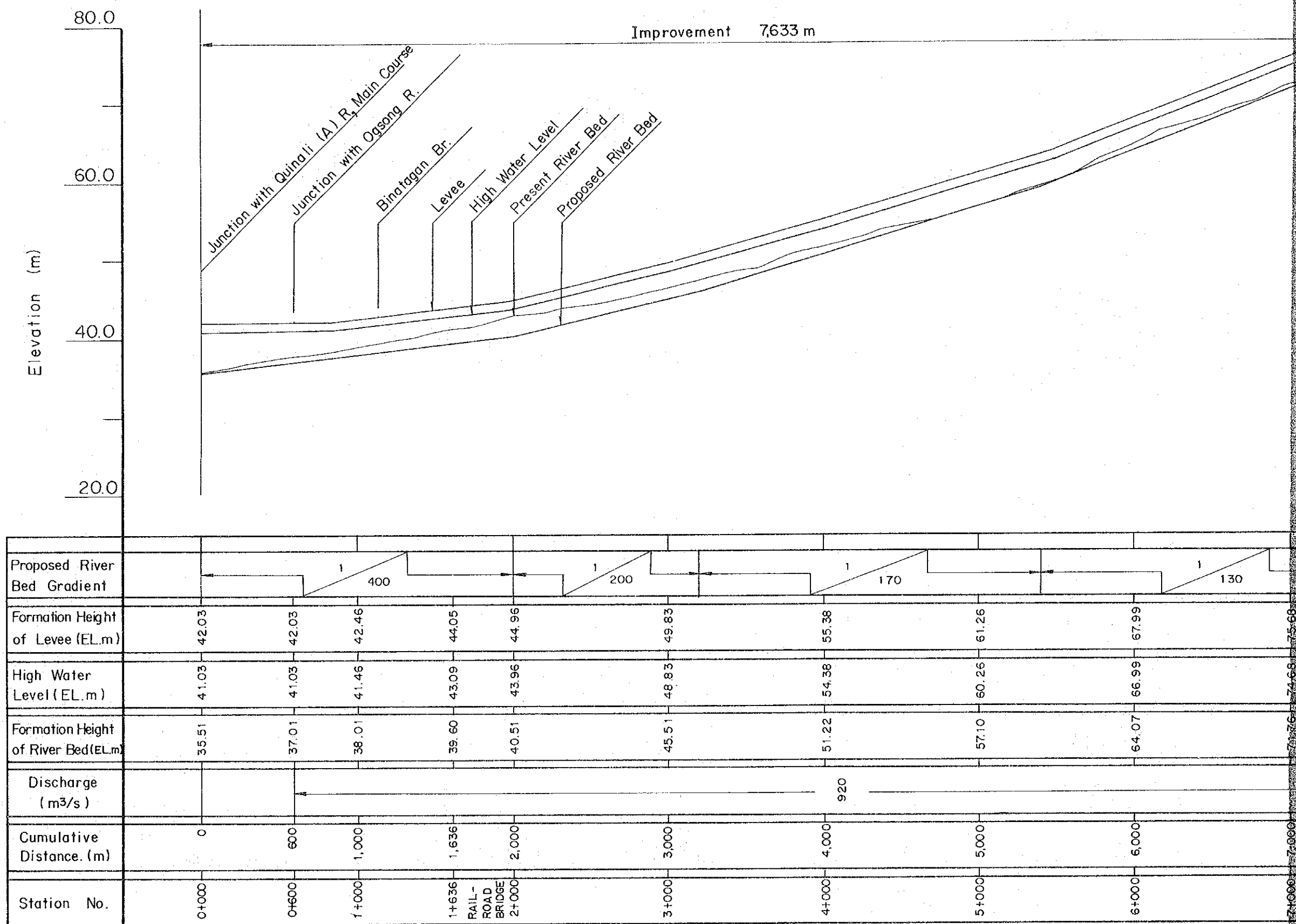
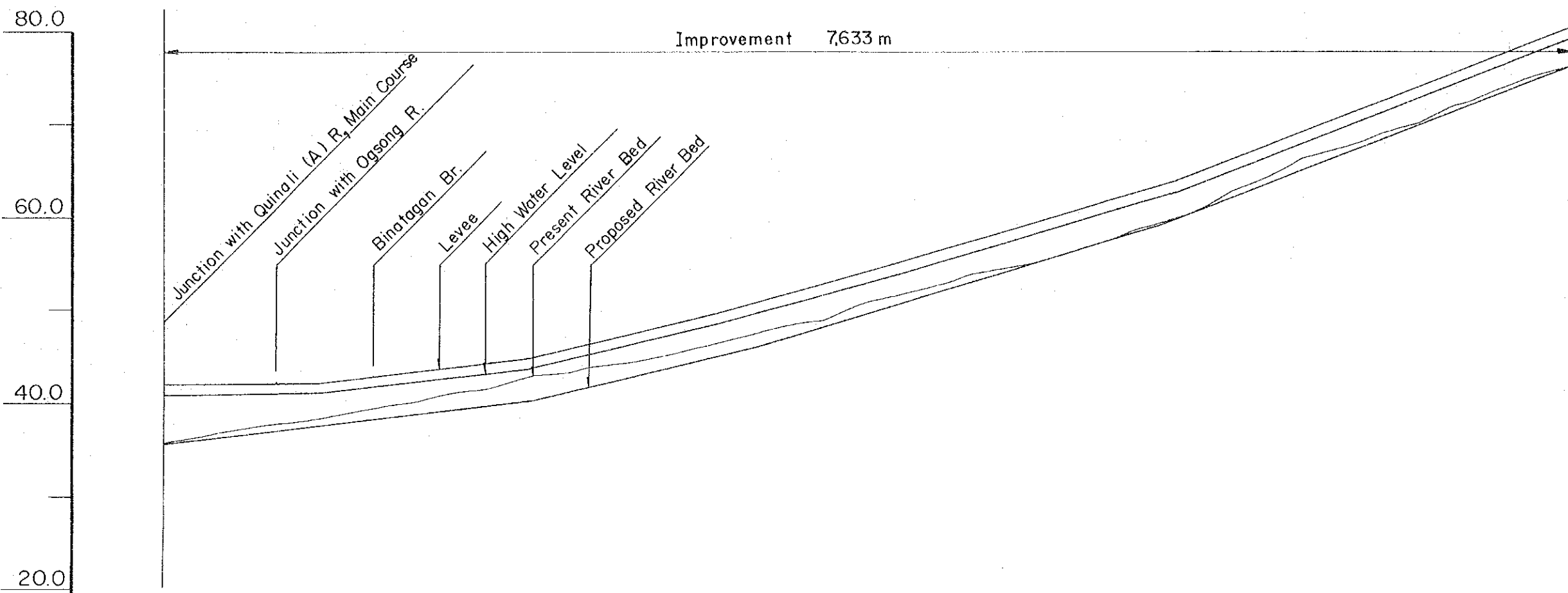


図-4.3.21 ナシシ川計画縦断面図

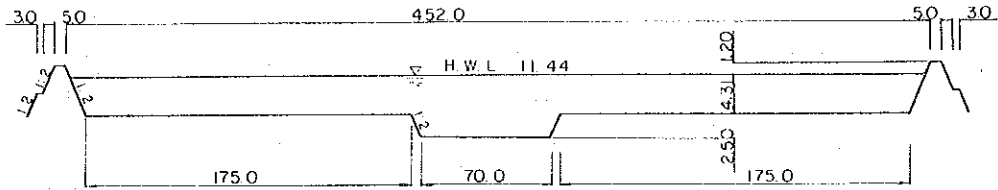


Proposed River Gradient	1/400		1/200		1/170		1/130					
Levee Height (EL.m)	42.03	42.03	42.46	44.05	44.96	49.83	55.38	61.26	67.99	75.68	80.55	
Water Level (EL.m)	41.03	41.03	41.46	43.09	43.96	48.83	54.38	60.26	66.99	74.68	79.55	
Present River Bed (EL.m)	35.51	37.01	38.01	39.60	40.51	45.51	51.22	57.10	64.07	71.76	76.63	
Discharge (m <sup>3</sup> /s)	920											
Cumulative Distance (m)	0	600	1,000	1,636	2,000	3,000	4,000	5,000	6,000	7,000	7,633	8,000
Station No.	0+000	0+600	1+000	1+636 RAIL-ROAD BRIDGE	2+000	3+000	4+000	5+000	6+000	7+000	7+633 BOX CULVERT	8+000

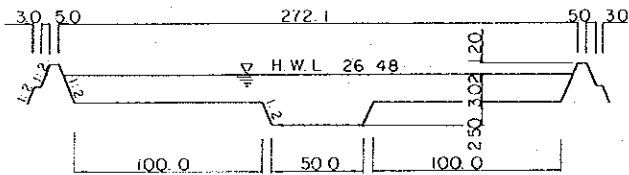


図-4.3.22 キナリ(A)川計画標準断面図

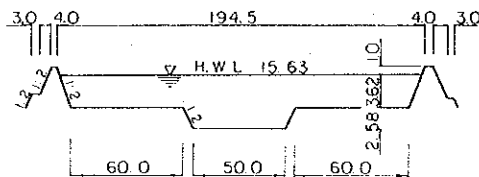
STA. 1 + 000 (Main Course)



STA. 15 + 000 (Main Course)



STA. 4 + 000 (Talisay R.)



STA. 1 + 000 (Nasisi R.)

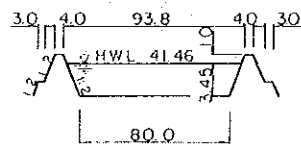
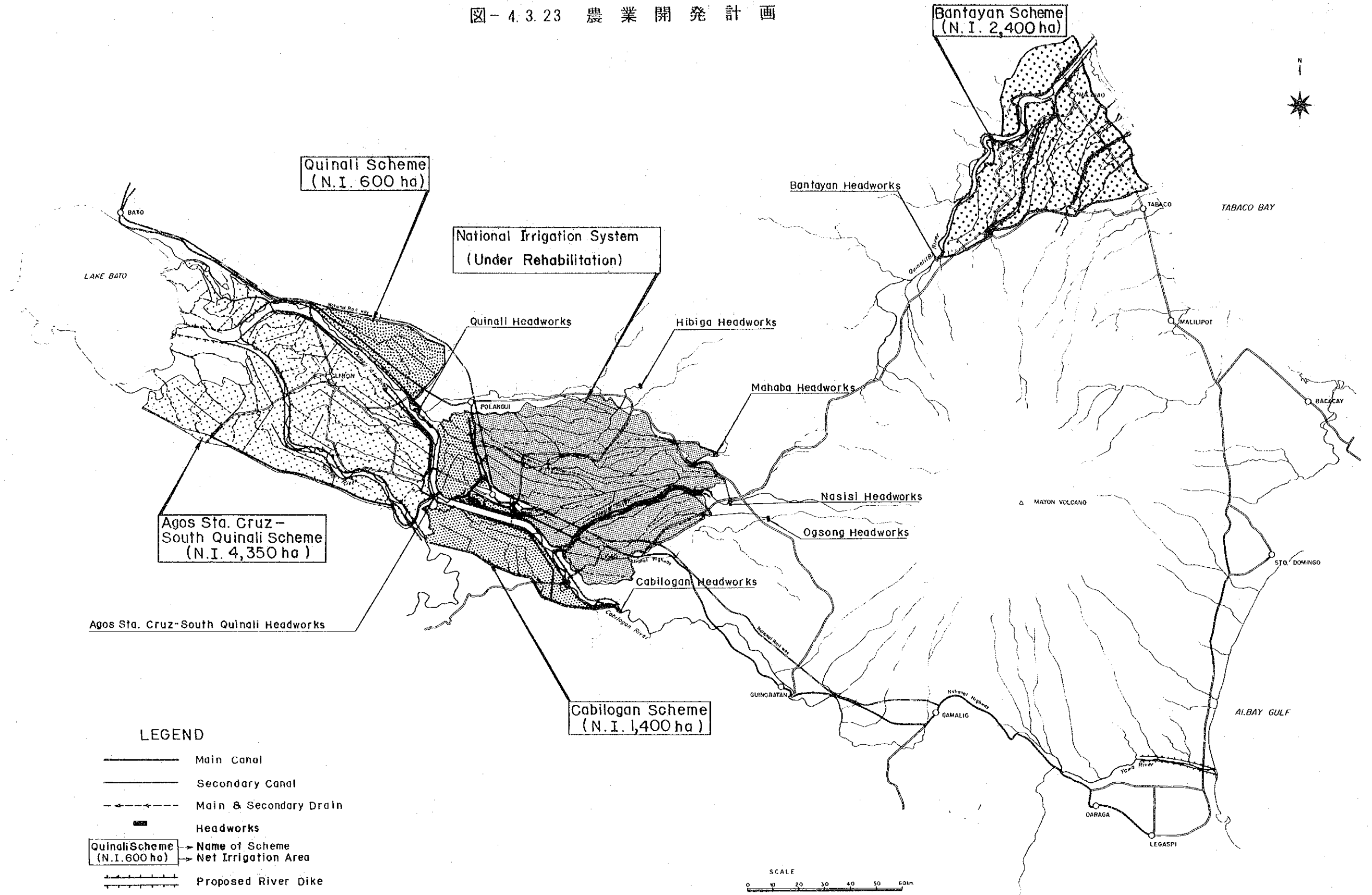






図-4.3.23 農業開発計画



LEGEND

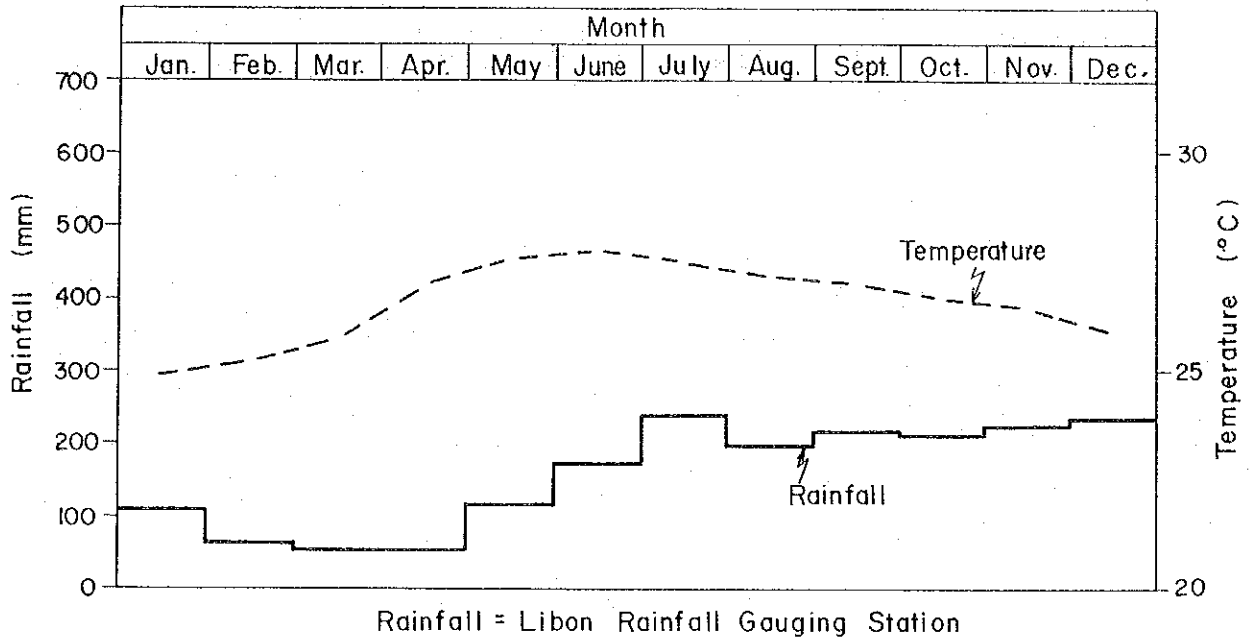
- Main Canal
- Secondary Canal
- - - Main & Secondary Drain
- Headworks
- Quinali Scheme (N.I. 600 ha) → Name of Scheme
- Quinali Scheme (N.I. 600 ha) → Net Irrigation Area
- ▬▬▬ Proposed River Dike

SCALE  
0 10 20 30 40 50 60km





図- 4.3.24 キナリ (A) 川流域計画作付体系



PROPOSED CROPPING PATTERN

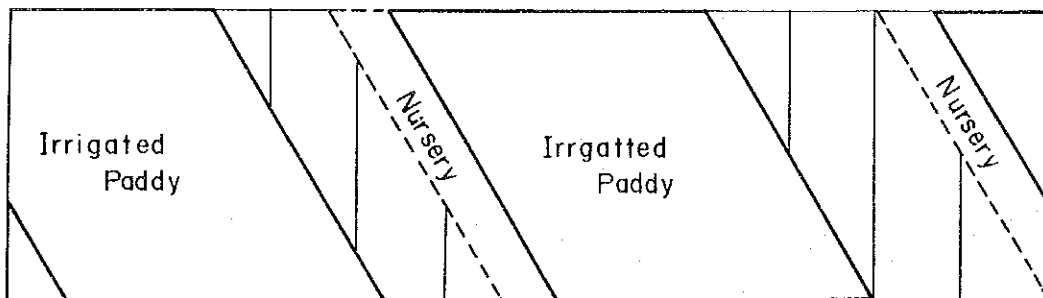
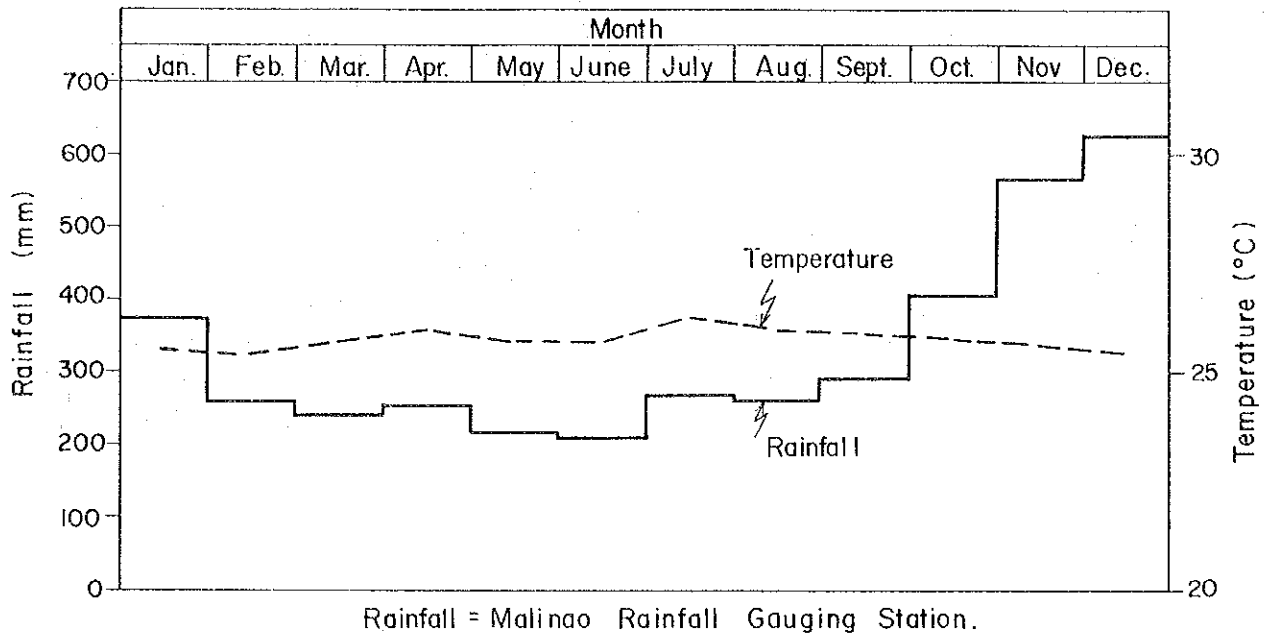


図-4.3.25 キナリ (B) 川流域計画作付体系



PROPOSED CROPPING PATTERN

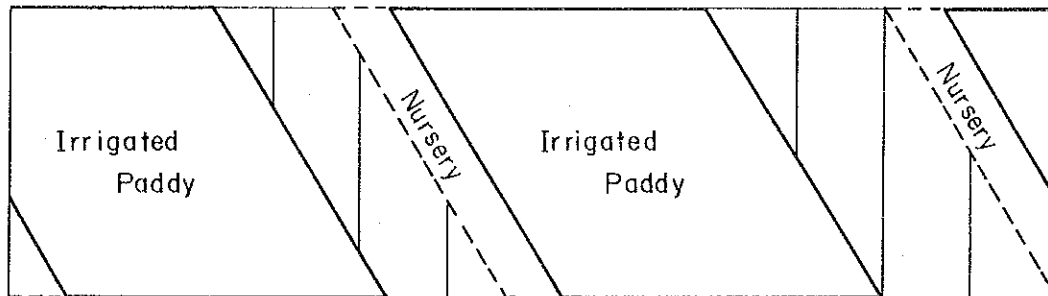


図-4.4.1 キナリ(B)川流域砂防施設配置計画図

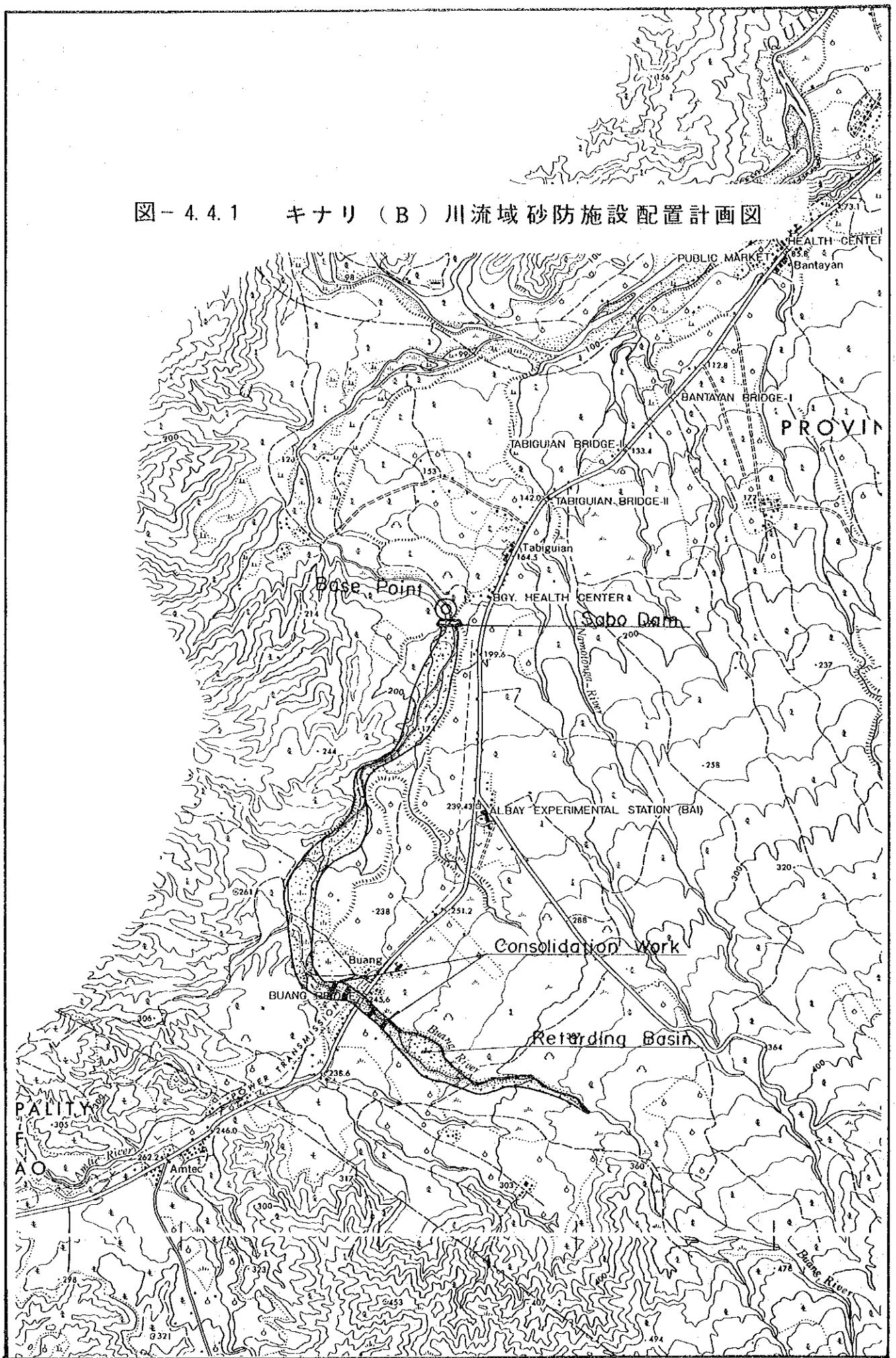
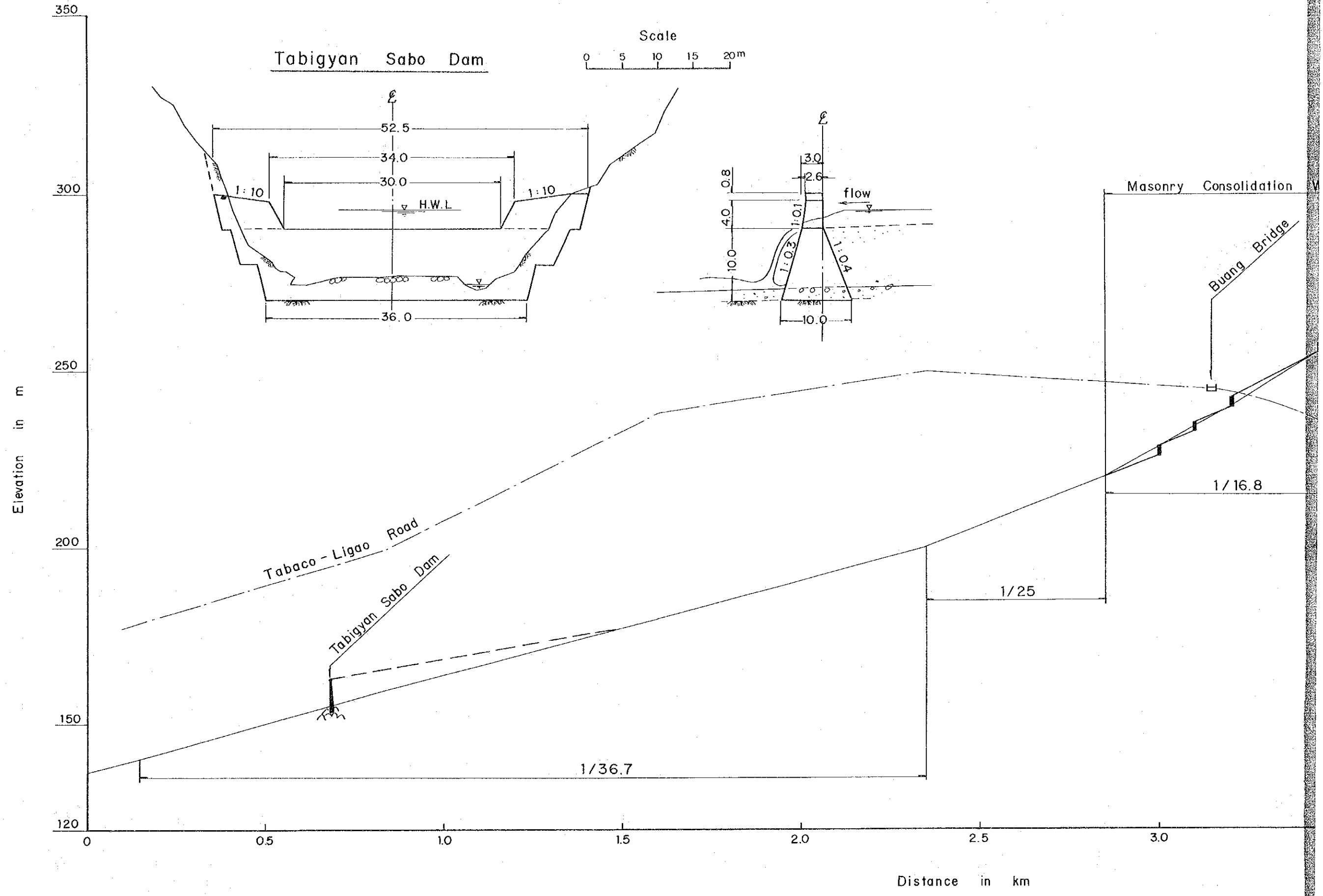


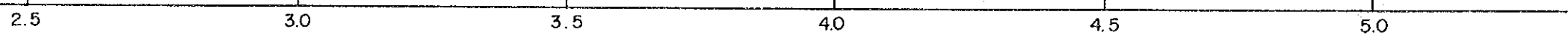
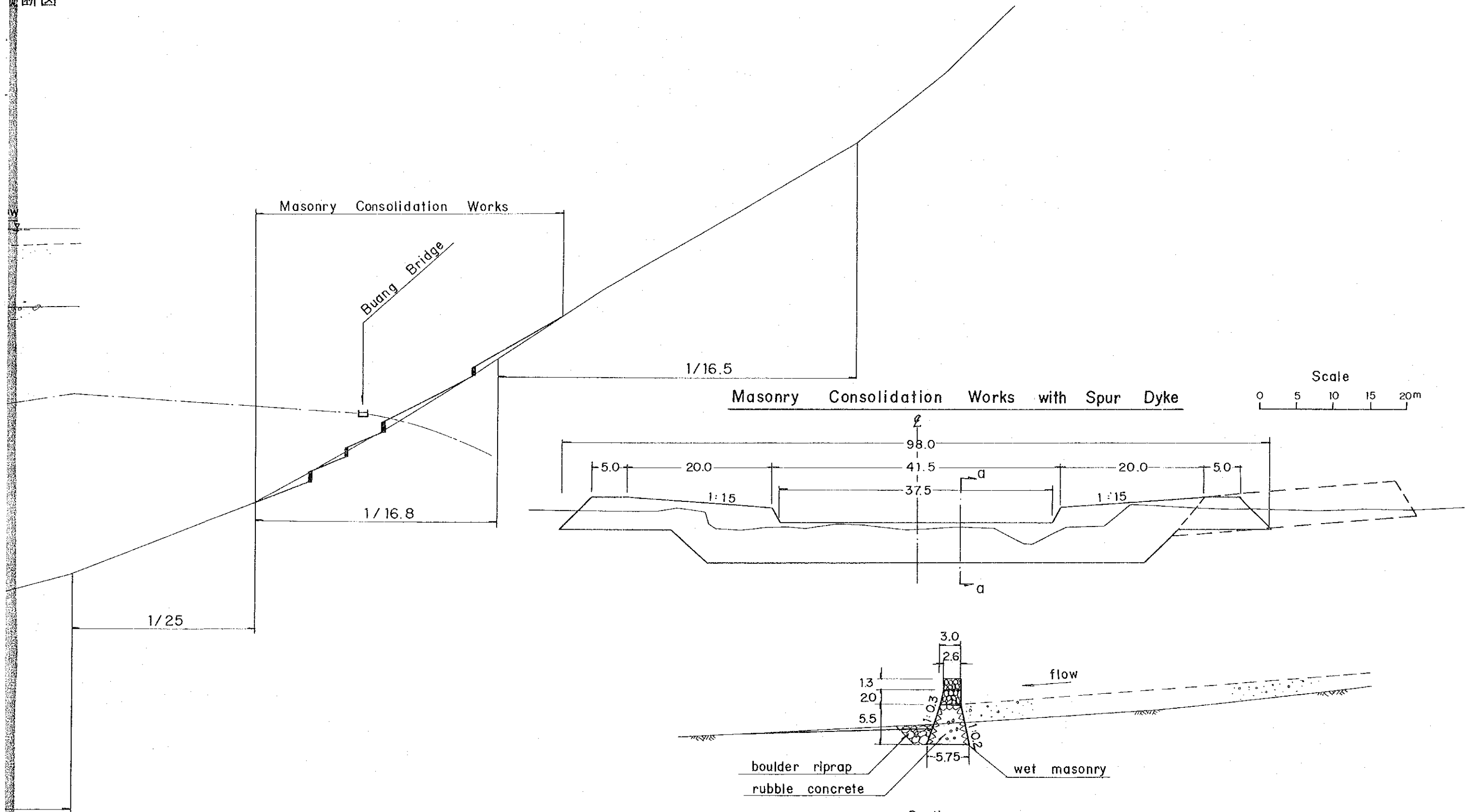




図-4.4.2 キナリ(B)川縦断面図



断图



Distance in km





図-4.4.3 キナリ(B)川現河道の川幅と流下能力

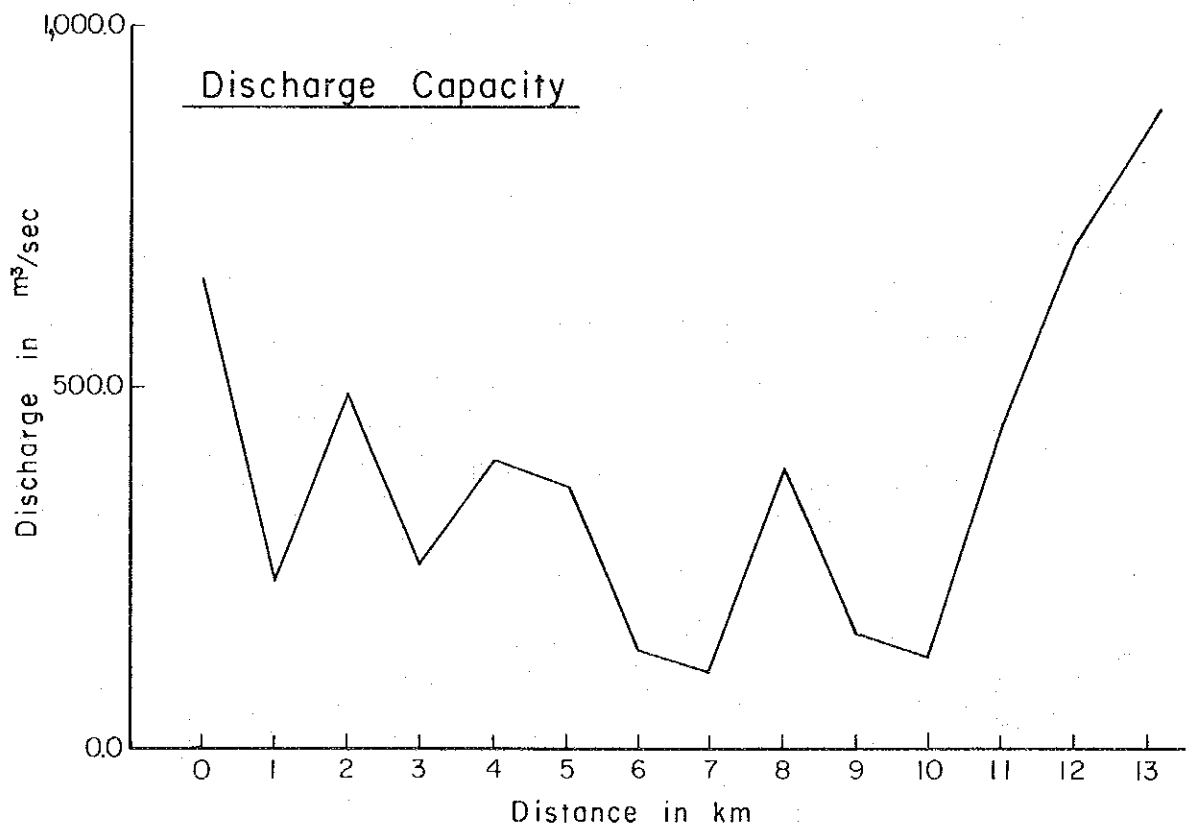
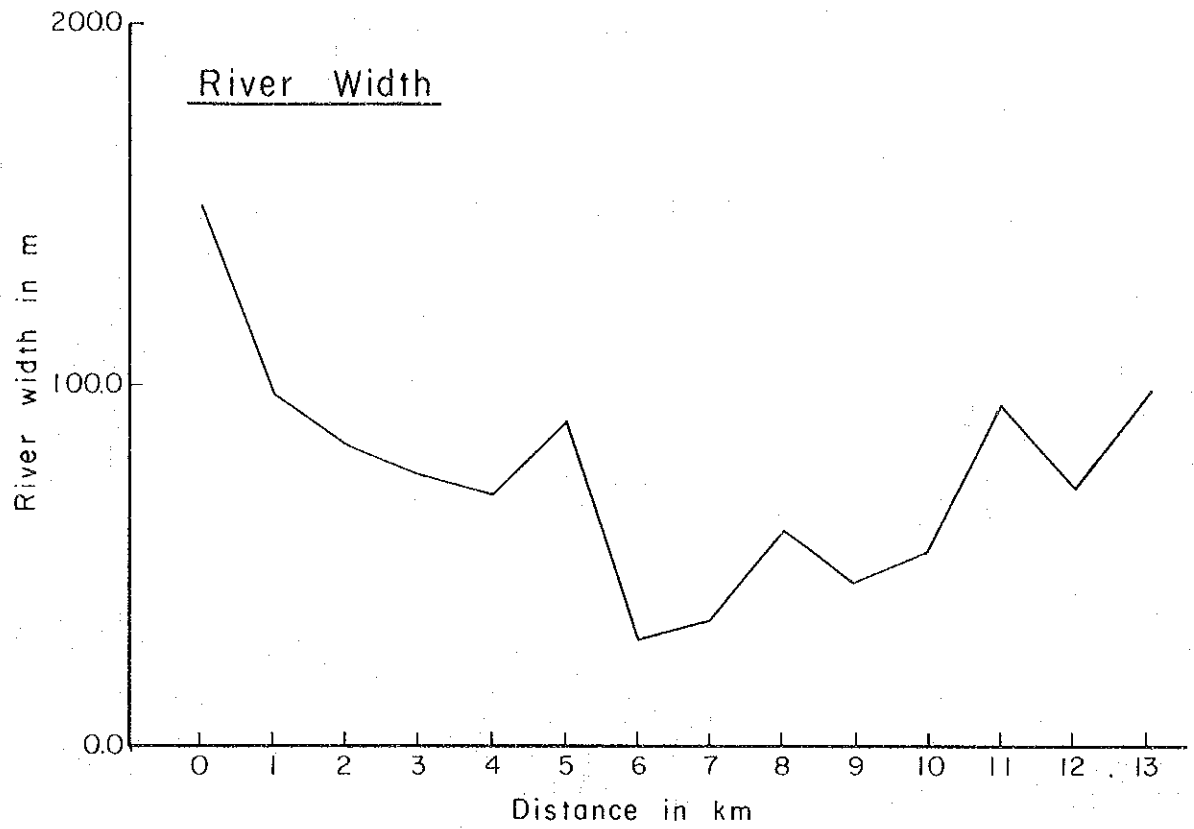


図-4.4.4 キナリ (B) 川流量配分図

Unit : m<sup>3</sup>/sec

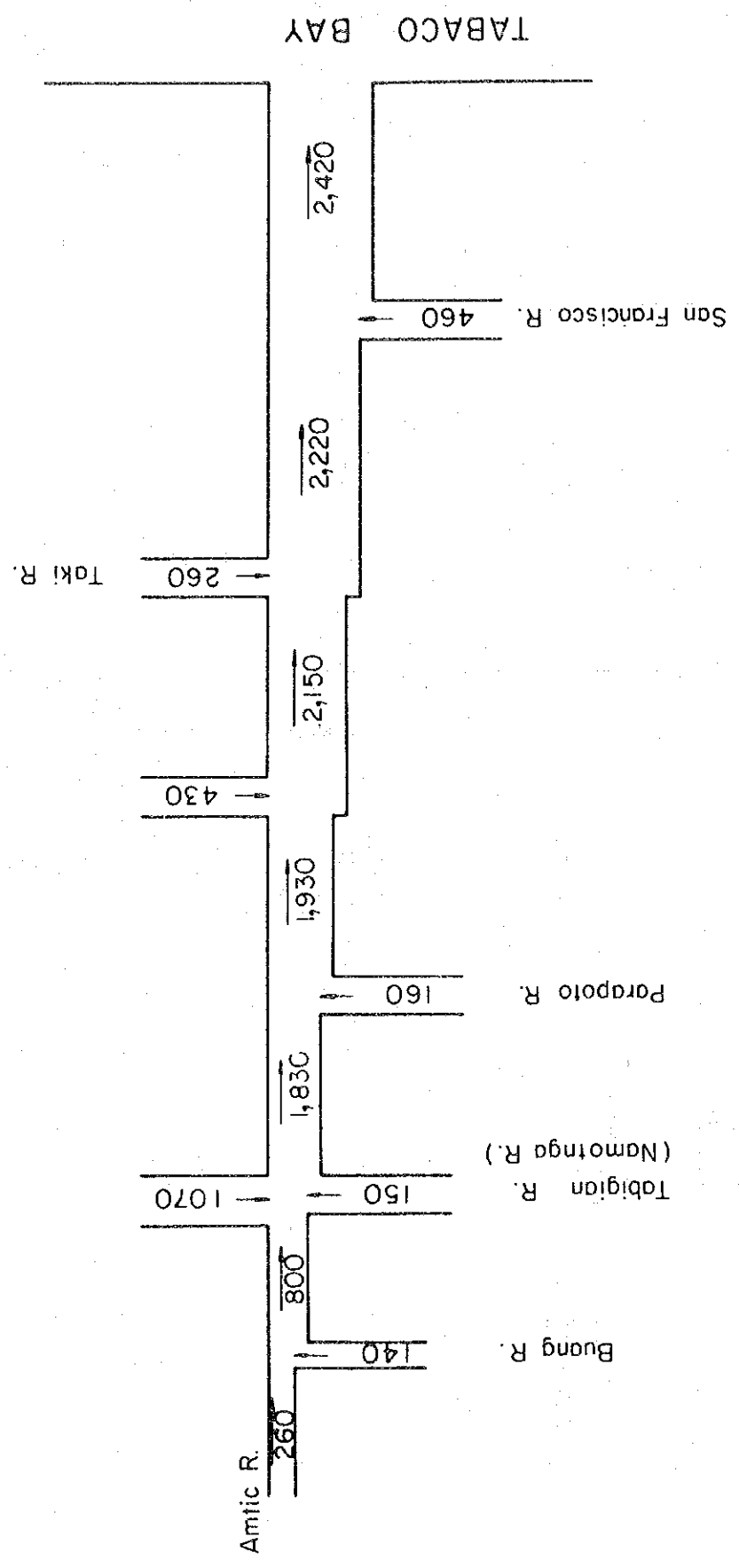




図-4.4.5 キナリ(B)川河川改修計画平面図

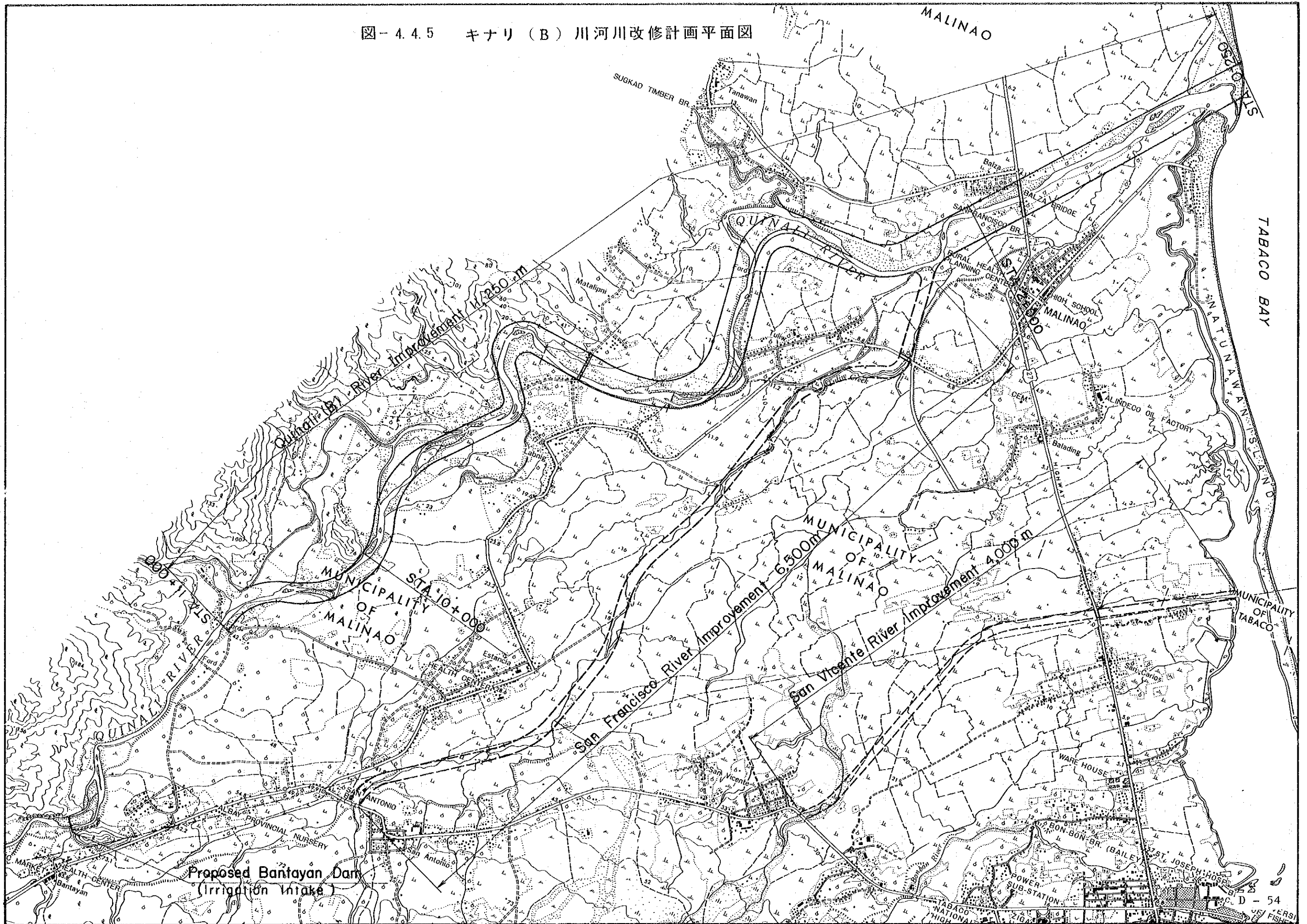
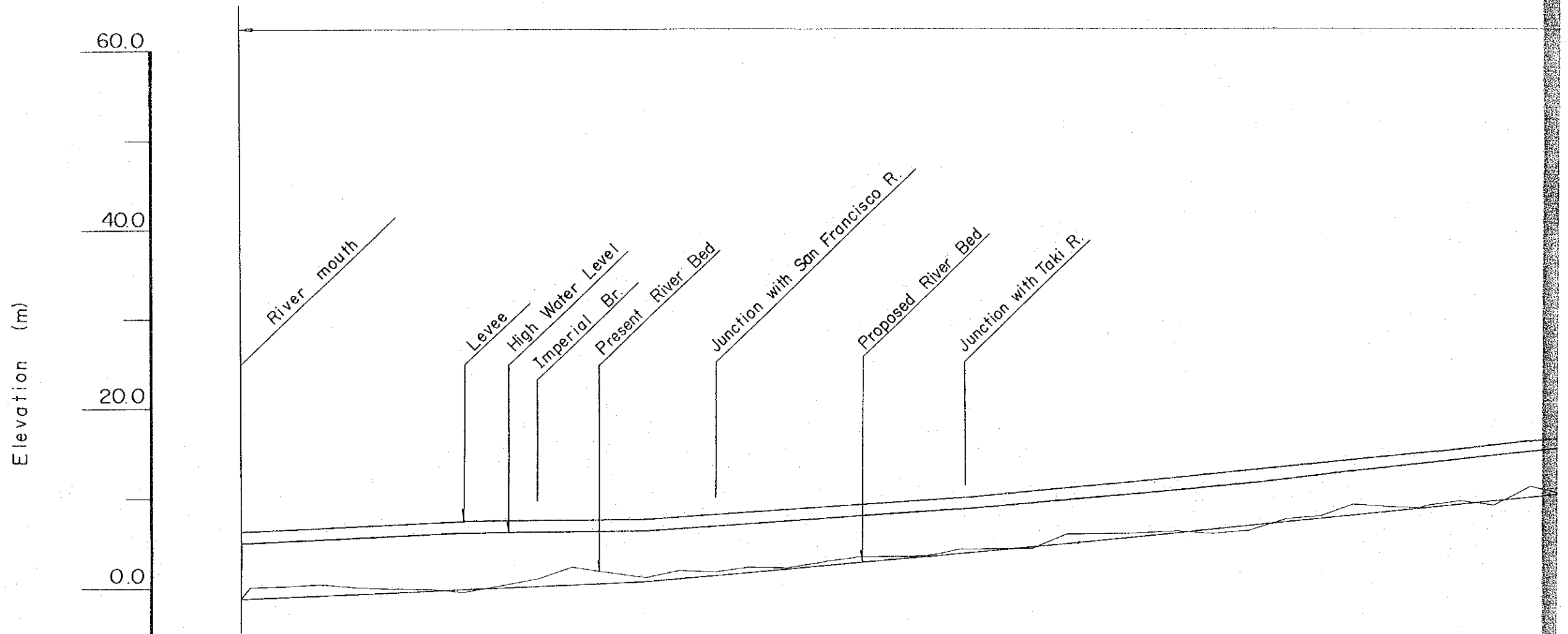


図-4.4.6 キナリ(B)川計画縦断面図



Proposed River Bed Gradient			1 1,200			1 660			1 470			
Formation Height of Levee (EL.m)	6.33	6.54	7.38	7.60	8.91	10.36	12.33	14.45	16.58			
High Water Level (EL.m)	5.13	5.34	6.18	6.40	7.71	9.16	11.13	13.25	15.38			
Formation Height of River Bed (EL.m)	-1.02	-0.81	0.03	0.85	2.36	3.88	5.89	8.01	10.14			
Discharge (m <sup>3</sup> /s)			2,420		2,220							
Cumulative Distance (m)	-250	0	1,000	2,000	2,400	3,000	3,800	4,000	4,200	5,000	6,000	7,000
Station No.	0+250	0+000	1+000	2+000	2+400	3+000	3+800	4+000	4+200	5+000	6+000	7+000

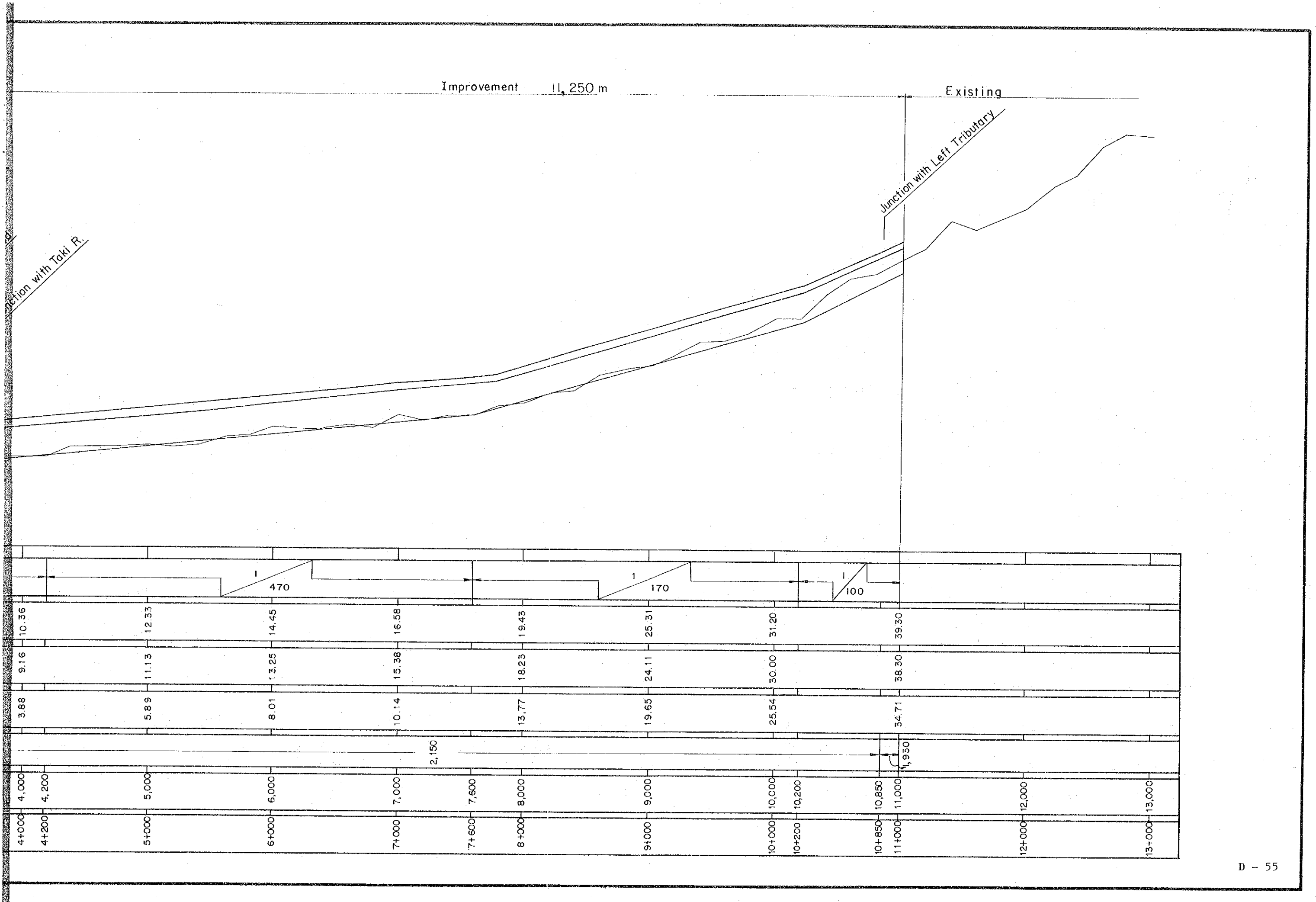
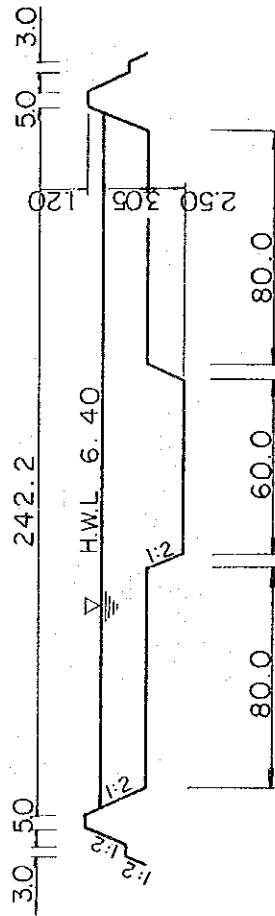


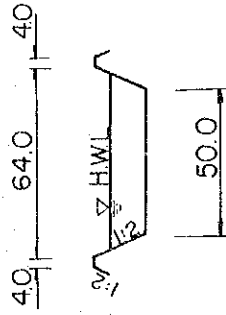


図-4.4.7 キナリ (B) 川計画標準断面図

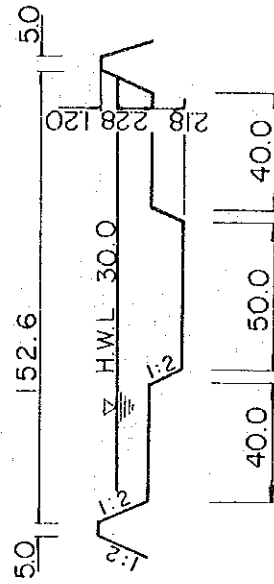
STA. 2 + 000 (Main Course)



THE SAN FRANCISCO RIVER



STA. 10 + 000 (Main Course)



THE SAN VICENTE RIVER

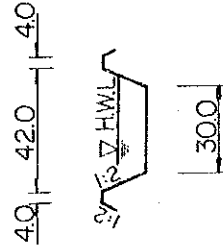




図-4.5.1 ヤワ川流域砂防施設配置計画図  
(アマリン川、フジャオ川、パウ・ブラボド川)

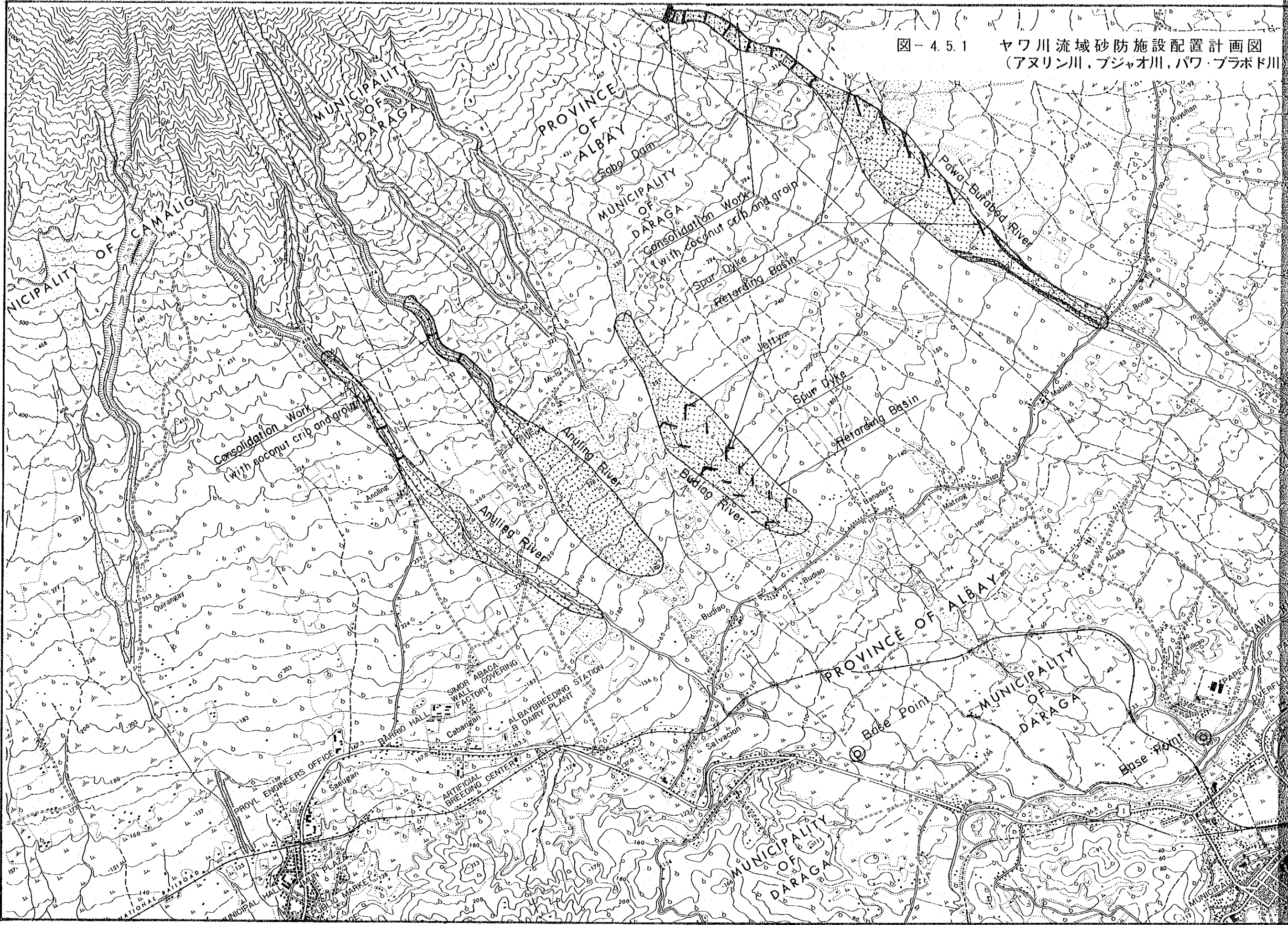


図-4.5.1 ヤワ川流域砂防施設配置計画図  
 (アヌリン川, プジャオ川, パワ・ブラボド川)

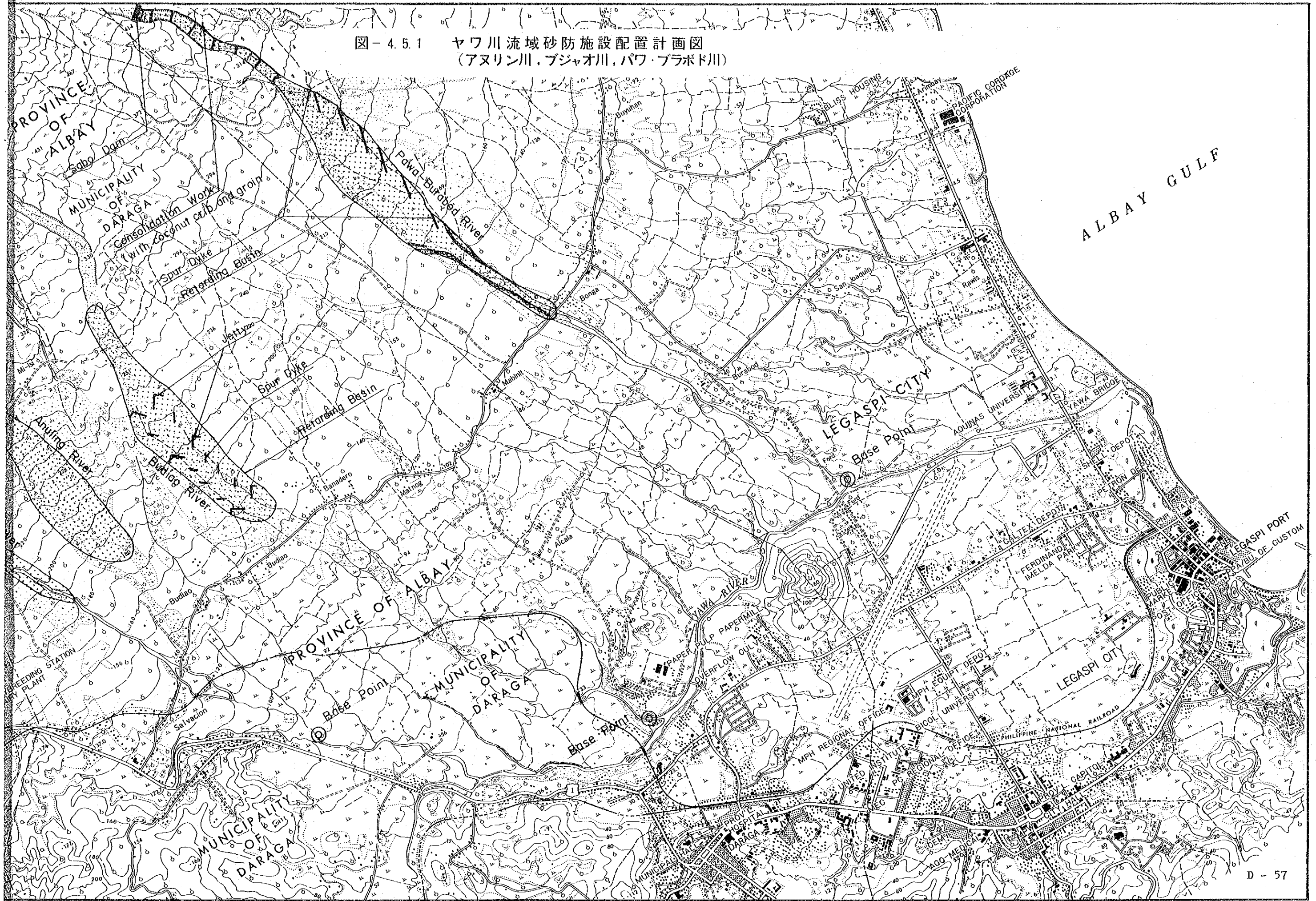
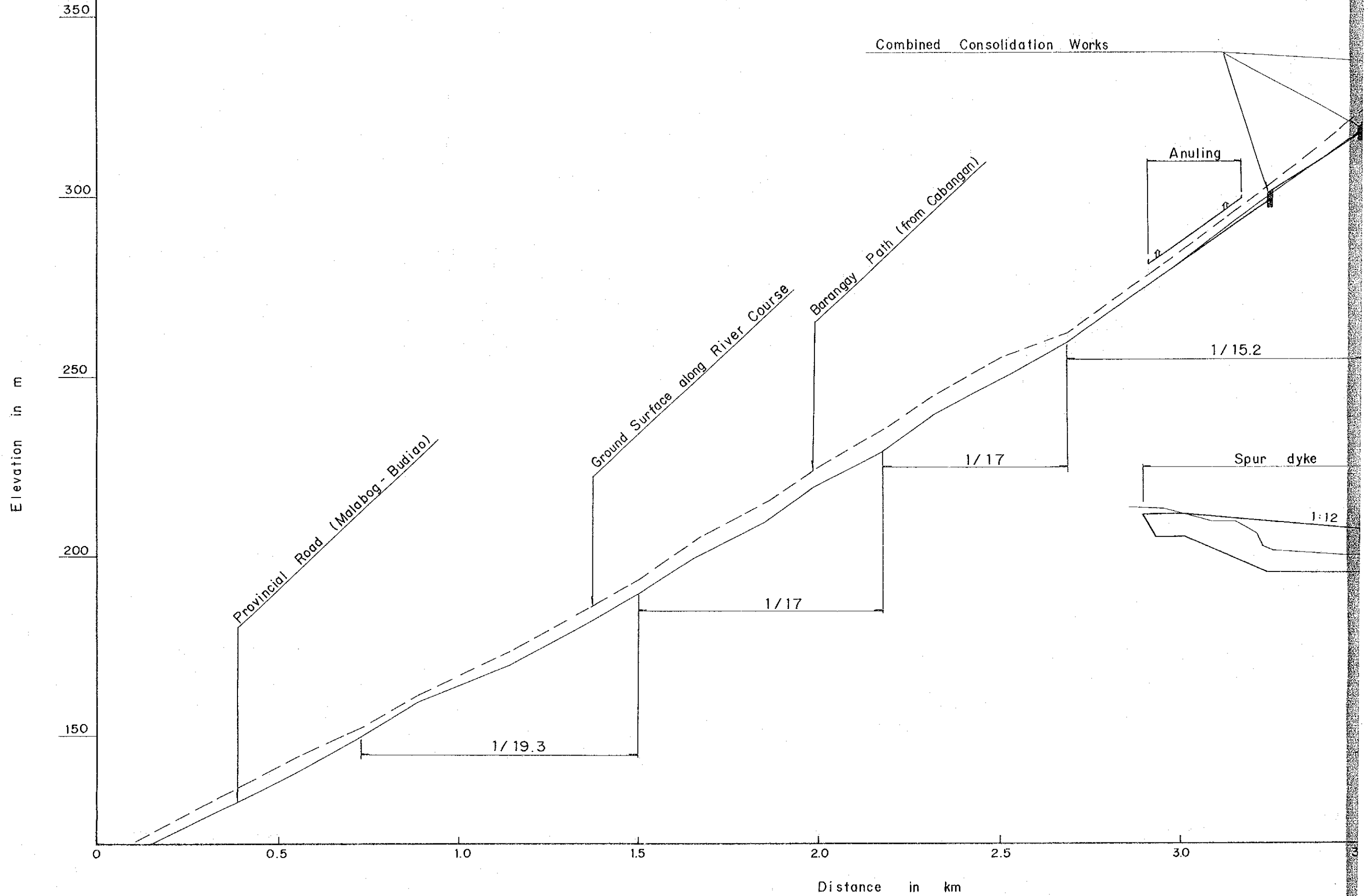


図-4.5.2 アヌリン川縦断面図



ヌリン川縦断面図

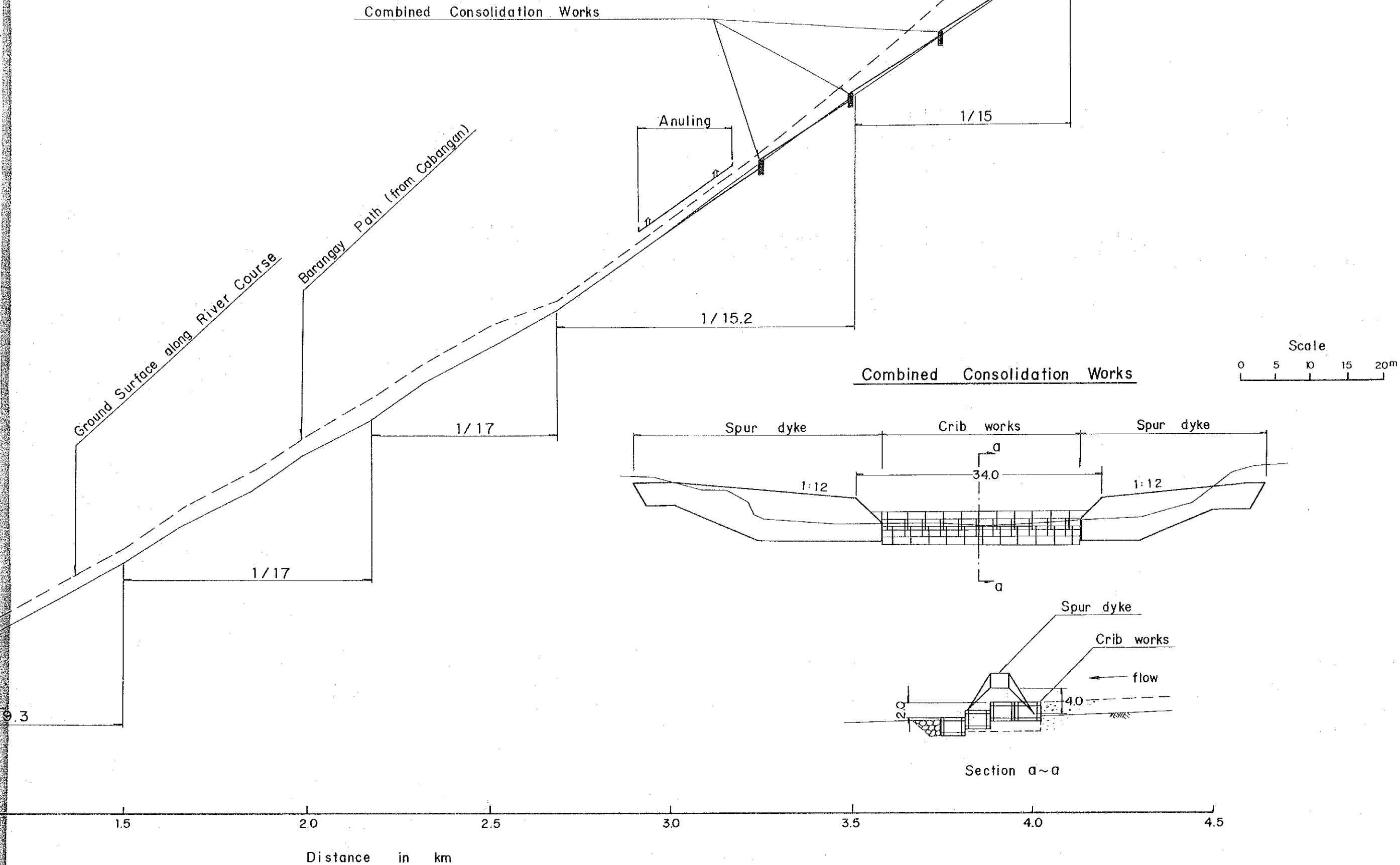


図-4.5.3 ブジャオ川縦断面図

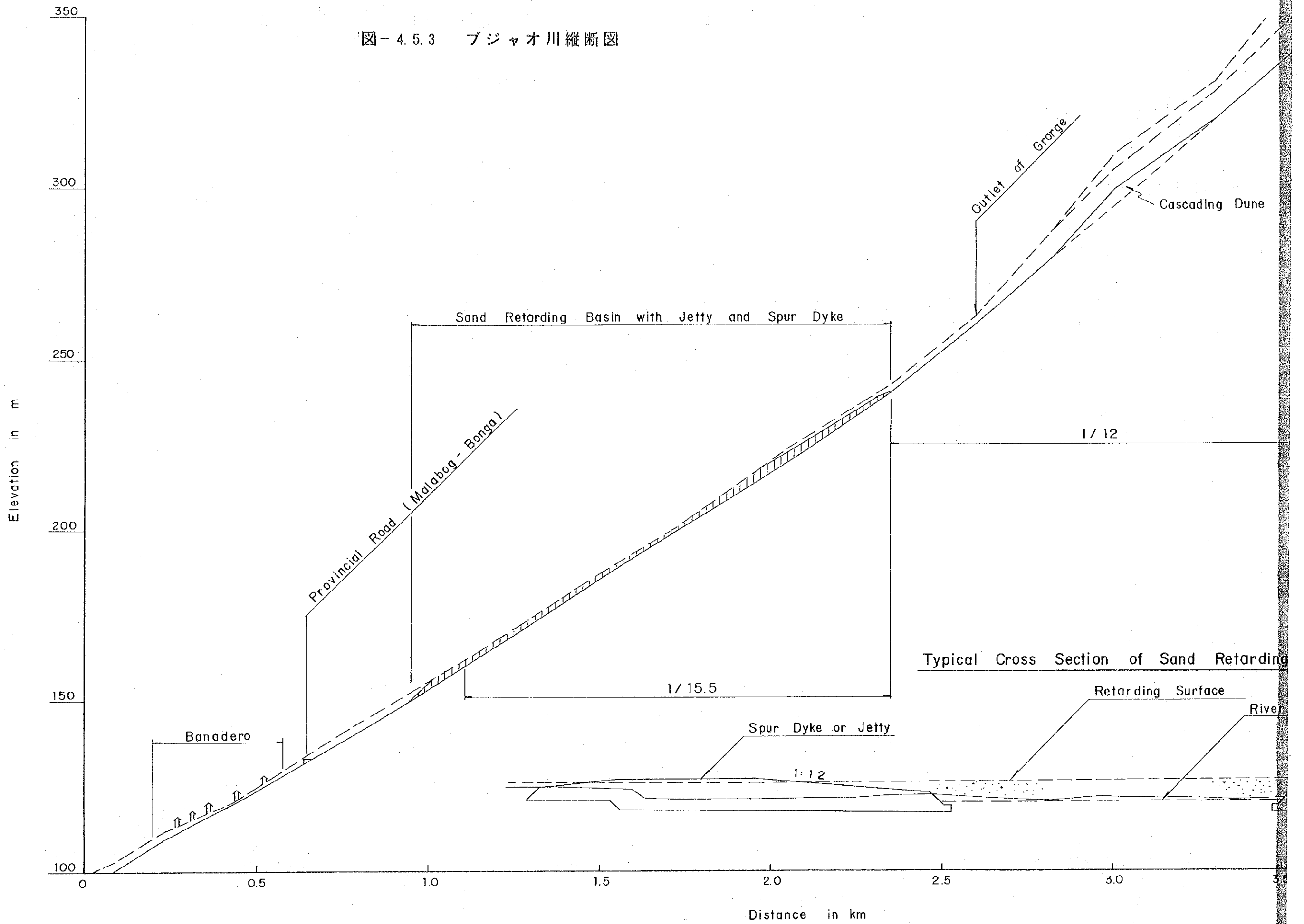


図-4.5.3 ブジャオ川縦断図

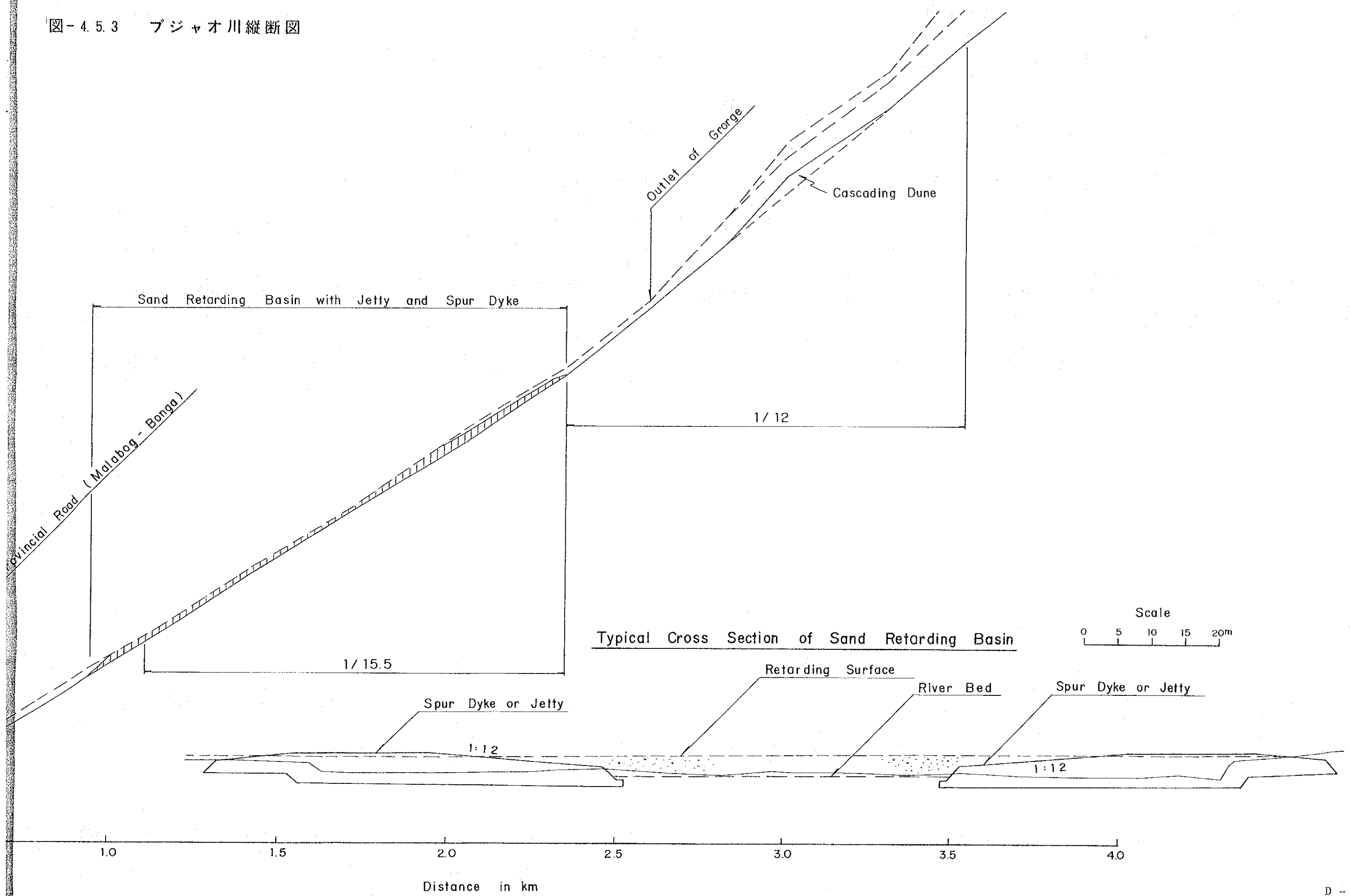


図-4.5.4 パワ・ブラボド川縦断図

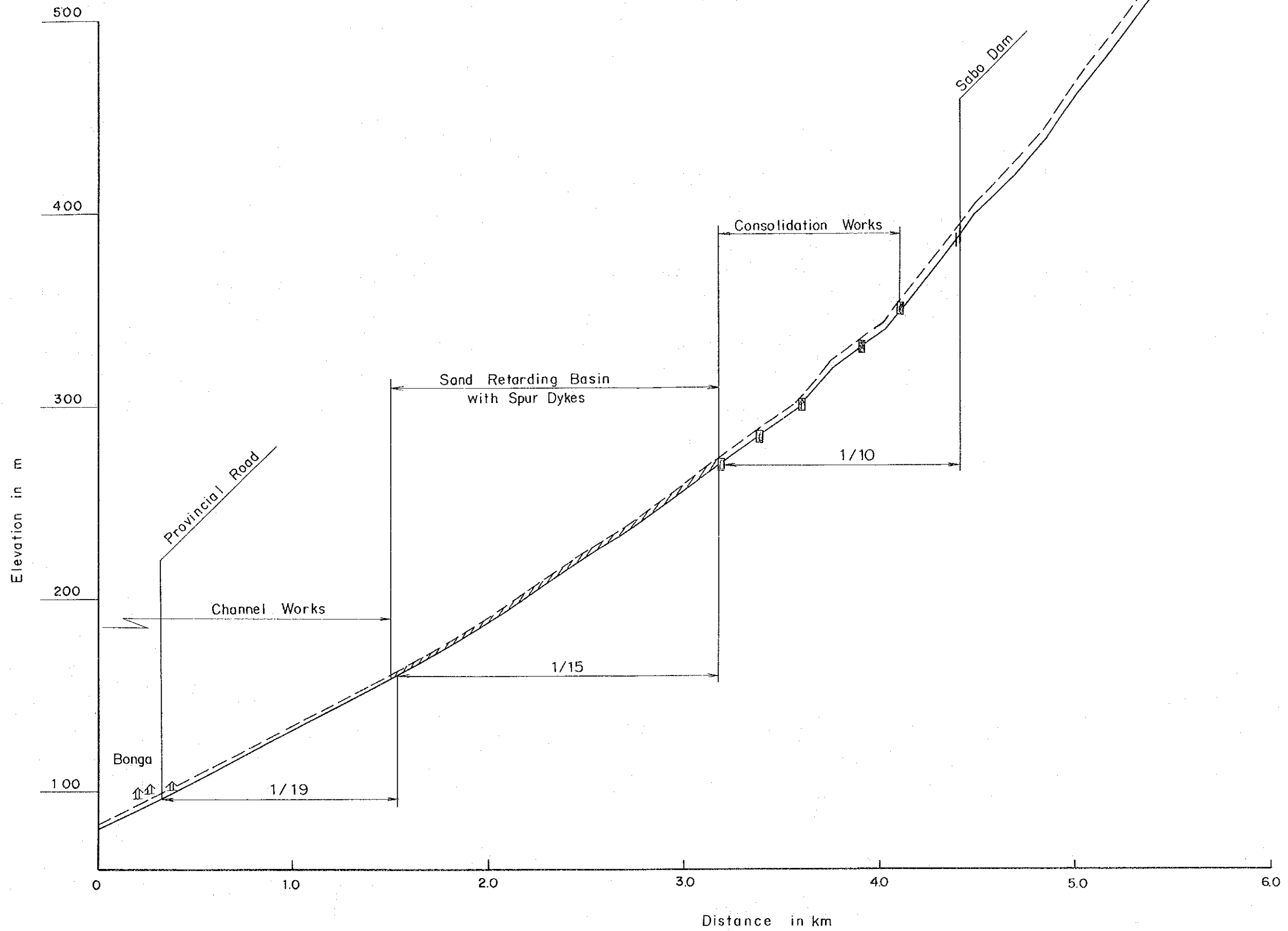






図-4.5.5 ヤワ川現河道の川幅と流下能力

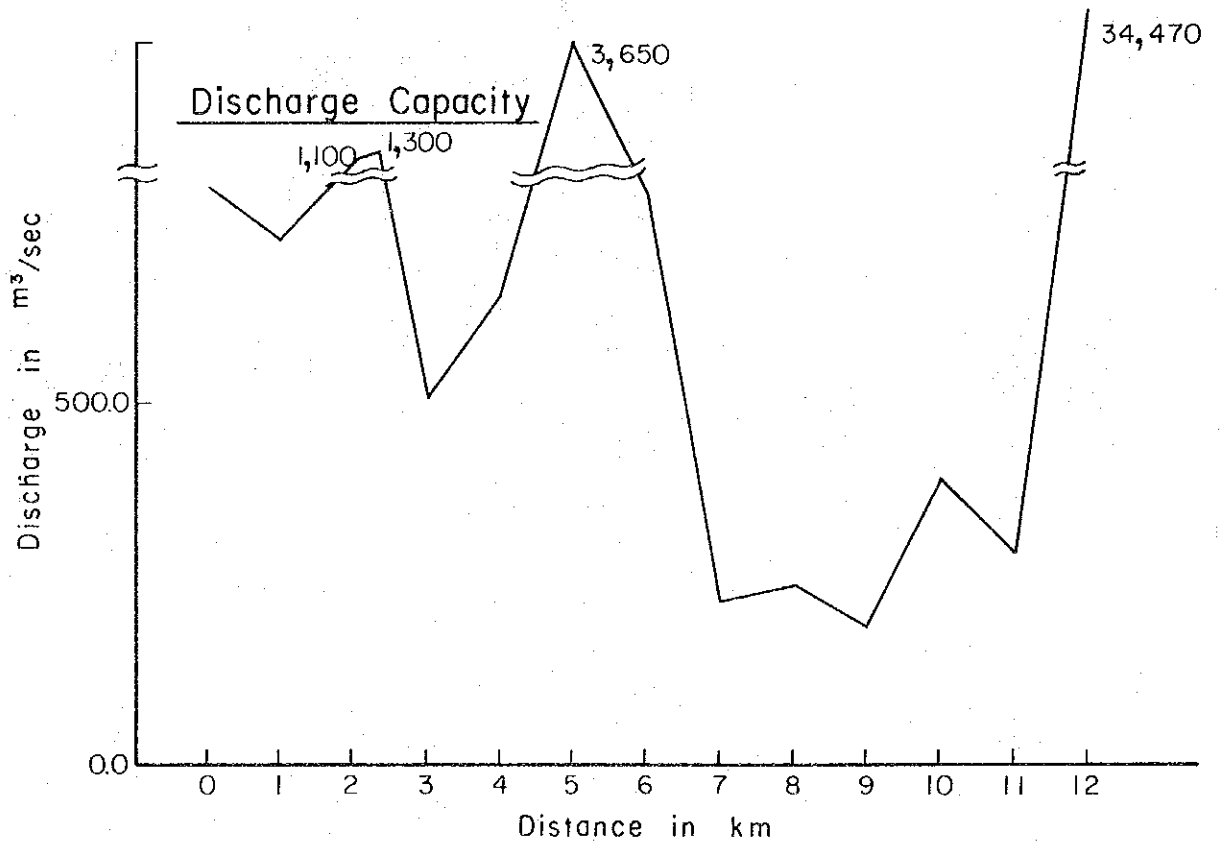
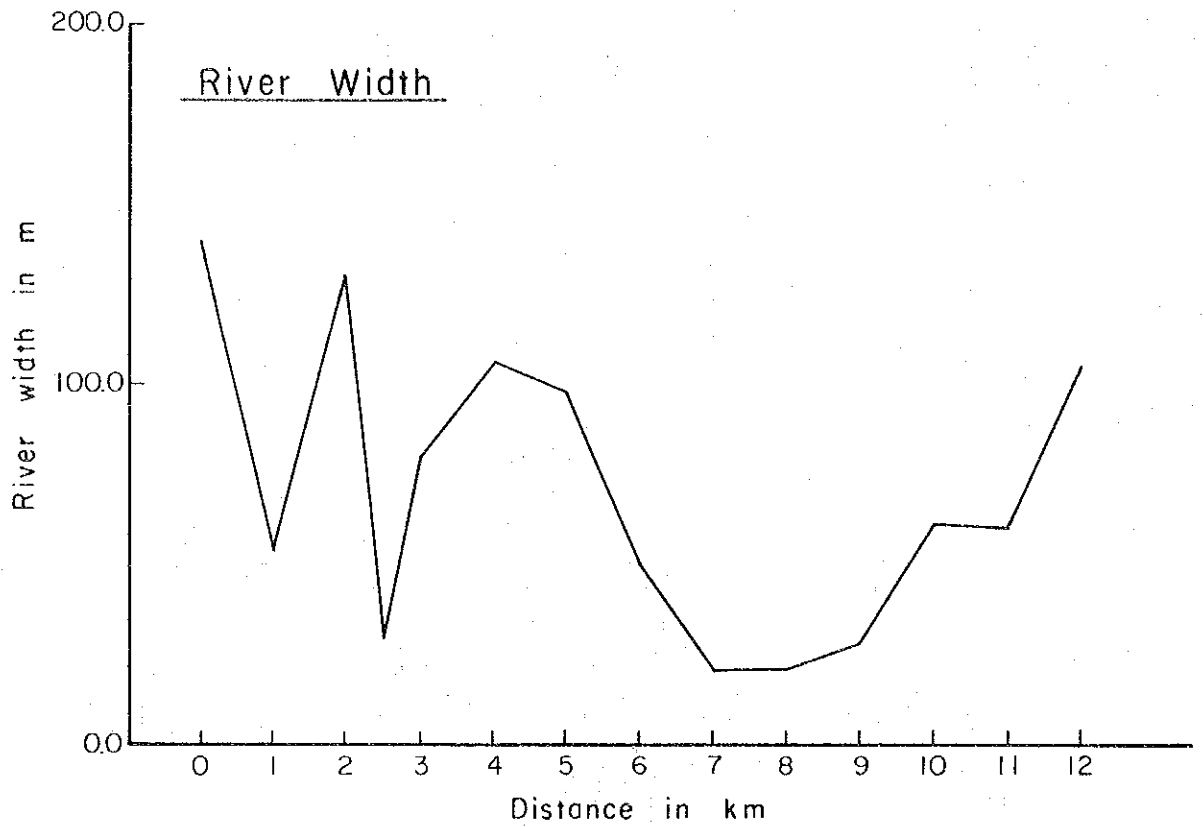


図-4.5.6 ヤマ川流量配分図

Unit : m<sup>3</sup>/sec

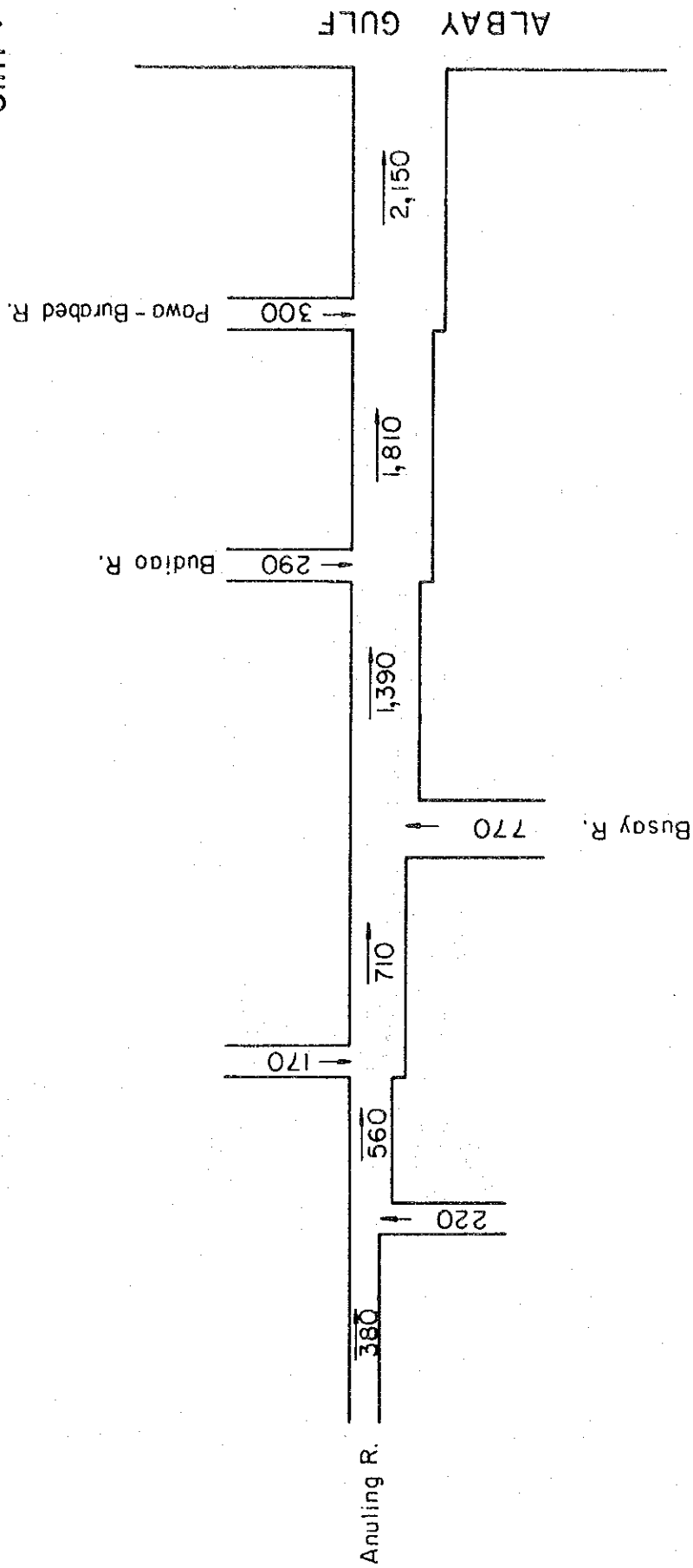




図-4.5.7 ヤワ川河川改修計画平面図





図-4.5.8 ヤワ川縦断面図

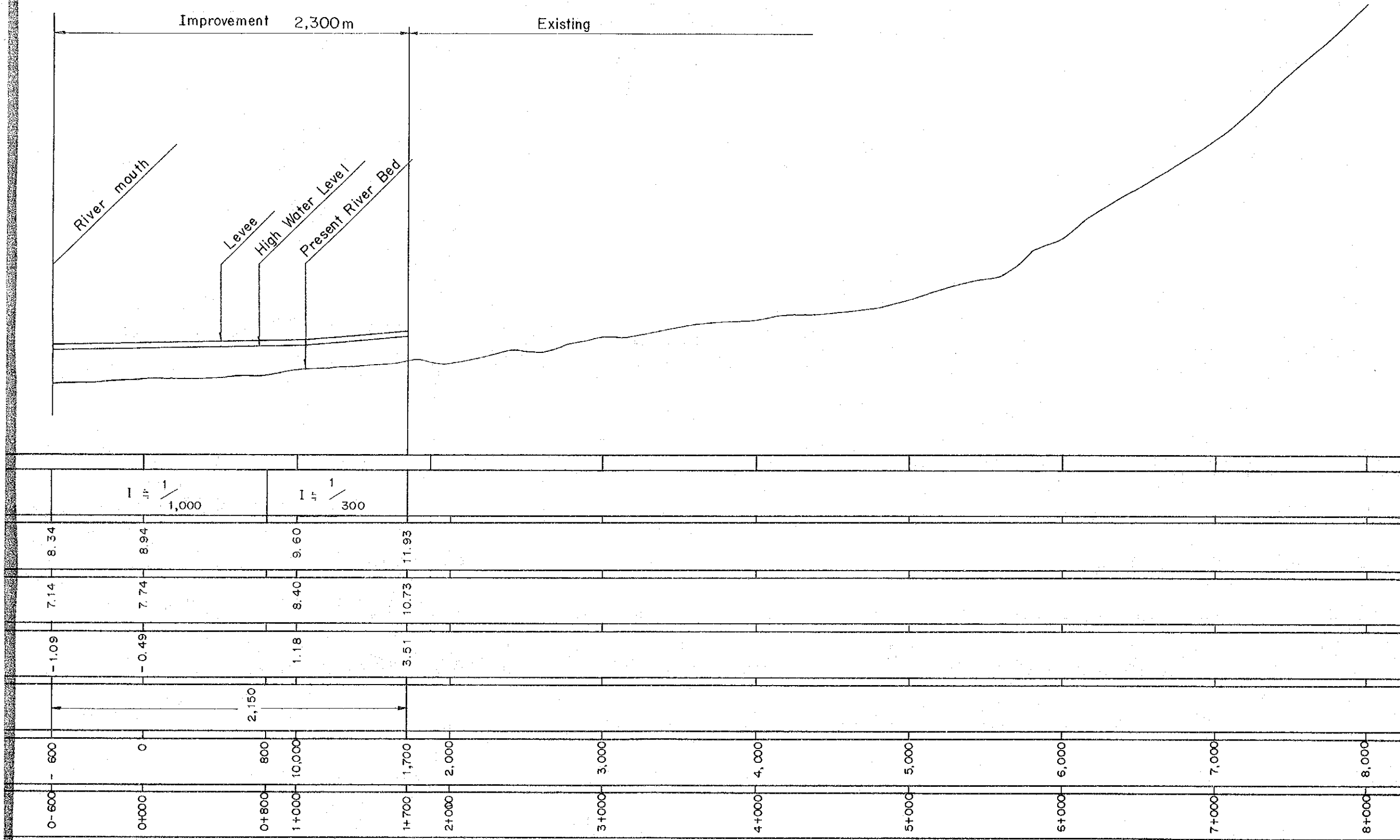




図-4.5.9 ヤワ川の計画標準断面図

STA. 1 + 000

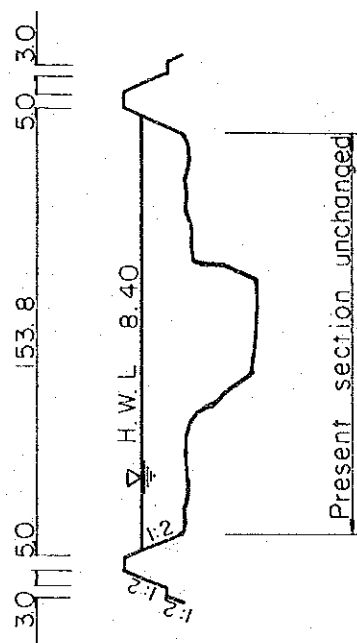




图-5.2.1 工事工程表

Work Item	1st. Year	2nd Year	3rd. Year	4th. Year	5th. Year	6th. Year	7th. Year	8th. Year	9th. Year	10th. Year
QUINALI (A) RIVER										
Sabo Works										
Quirangay Spur Dike	(EL.120-EL.180)									
Jetty		(EL.150-EL.180)								
Tumpa Consolidation Work										(EL.240-EL.320)
Maninila Consolidation Work										(EL.100-EL.130)
Masarawag Spur Dike										
Jetty								(EL.270)	(EL.90-EL.220)	
Consolidation Work								(EL.270)		(EL.90-EL.120)
Ogong Consolidation Work		(EL.120)		(EL.100)						
Spur Dike & Jetty		(EL.200-EL.280)								
Nasisi Consolidation Dam					EL.247 & EL.200					
Spur Dike						(EL.170)				
Groin & Levee						(EL.100-EL.170)				
Consolidation Work							(EL.100)			
River Improvement Works										
Levee for the Quinali (A) River										
STA.0+000 — 2+341										
2+341 — 6+615										
6+615 — 12+500										
12+500 — 17+074										
17+074 — 21+892		(Ocs. Diversion)								
21+892 — 27+500										
Levee for the Nasisi River										
STA.0+000 — 7+000										
Levee for the Talisay River										
STA.0+017 — 3+266										
3+266 — 7+500										
7+500 — 13+700										
Irrigation Works										

工 事 工 程 表

Work Item	1st. Year	2nd. Year	3rd. Year	4th. Year	5th. Year	6th. Year	7th. Year	8th. Year	9th. Year	10th. Year
QUJINALI (B) RIVER										
Sabo Works										
Buang Consolidation Dam	(EL. 220 - EL. 270)									
Sabo Dam	(EL. 155)									
River Improvement Works										
Levee for the Quinali (B) River										
Levee for the San Francisco River										
Levee for the San Vicente River										
Irrigation Works										
YAWA RIVER										
Sabo Works										
Anuling Consolidation Work								(EL. 200 - EL. 370)		
Budiao Spur Dike & Jetty								(EL. 160 - EL. 230)		
Pawa - Burabod Sabo Dam	(EL. 400)									
Spur Dike										
River Improvement Works										
Levee for the Yawa River										

図-6.4.1 事業の内部収益率曲線

