

FIG. 451 LOCATION MAP OF SABO WORKS IN THE YAWA RIVER BASIN  
(ANULING RIVER, BUDIAO RIVER AND PAWA-BURABOD RIVER)

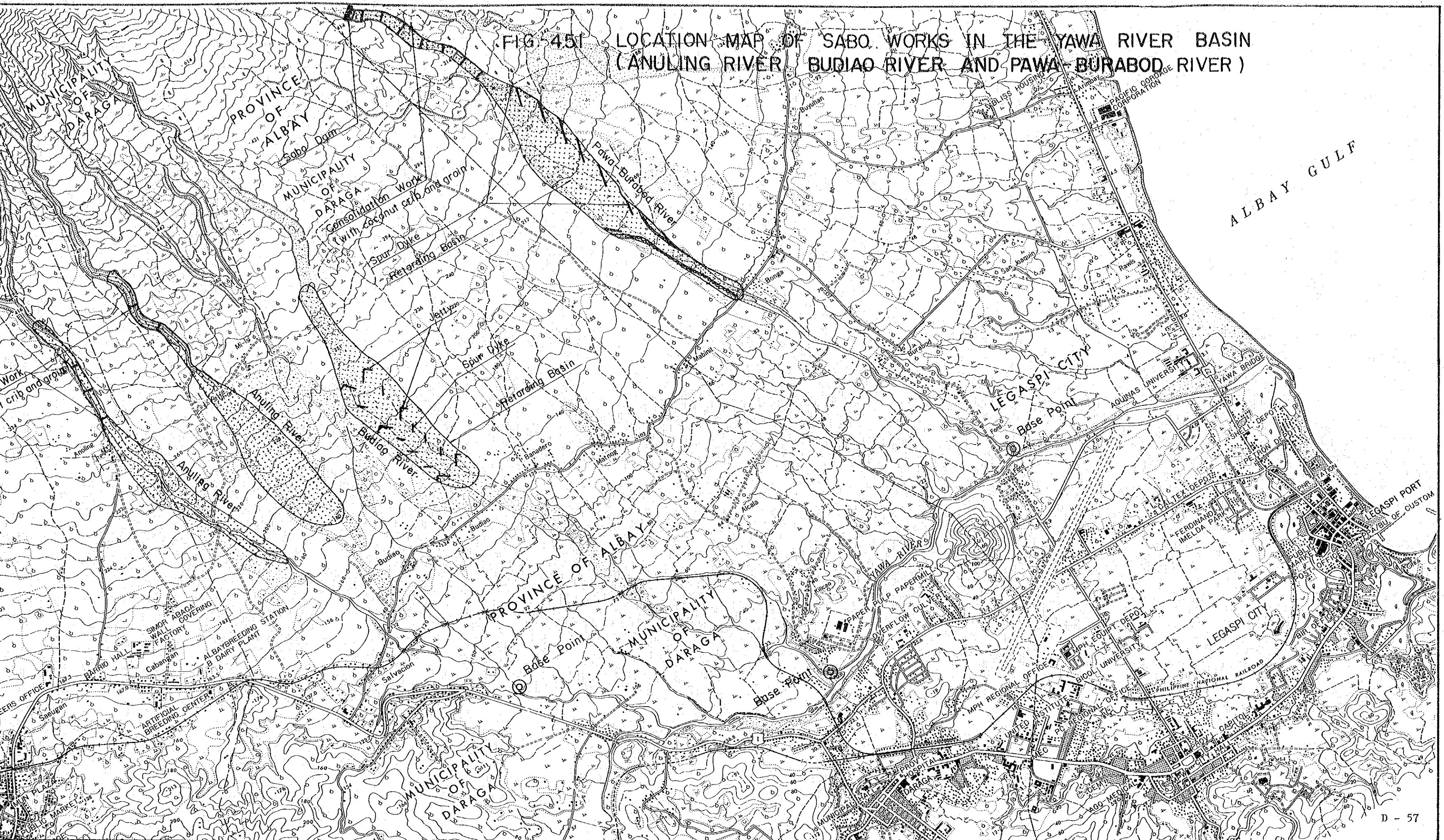


FIG.-452 PROFILE OF THE ANULING RIVER

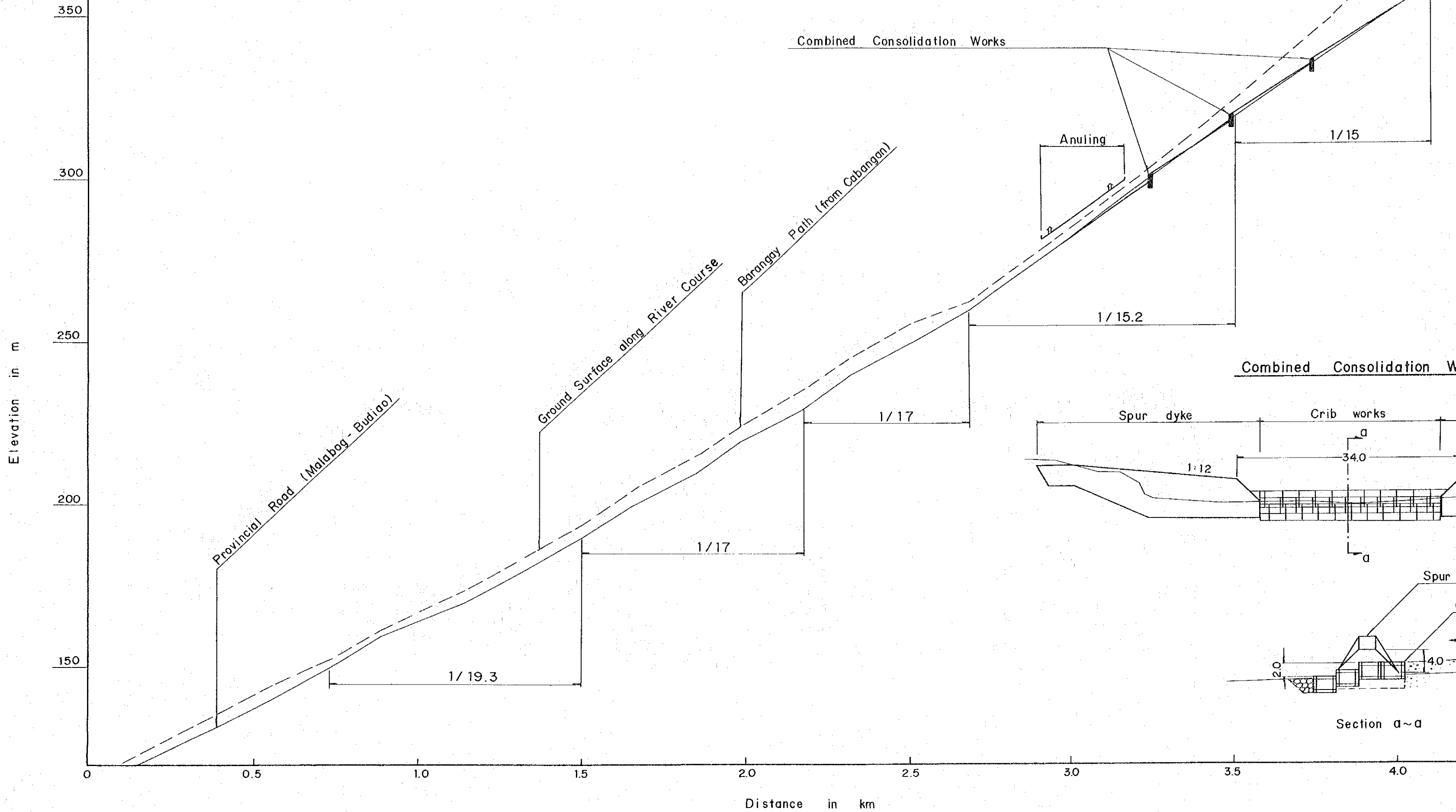


FIG.-4.52 PROFILE OF THE ANULING RIVER

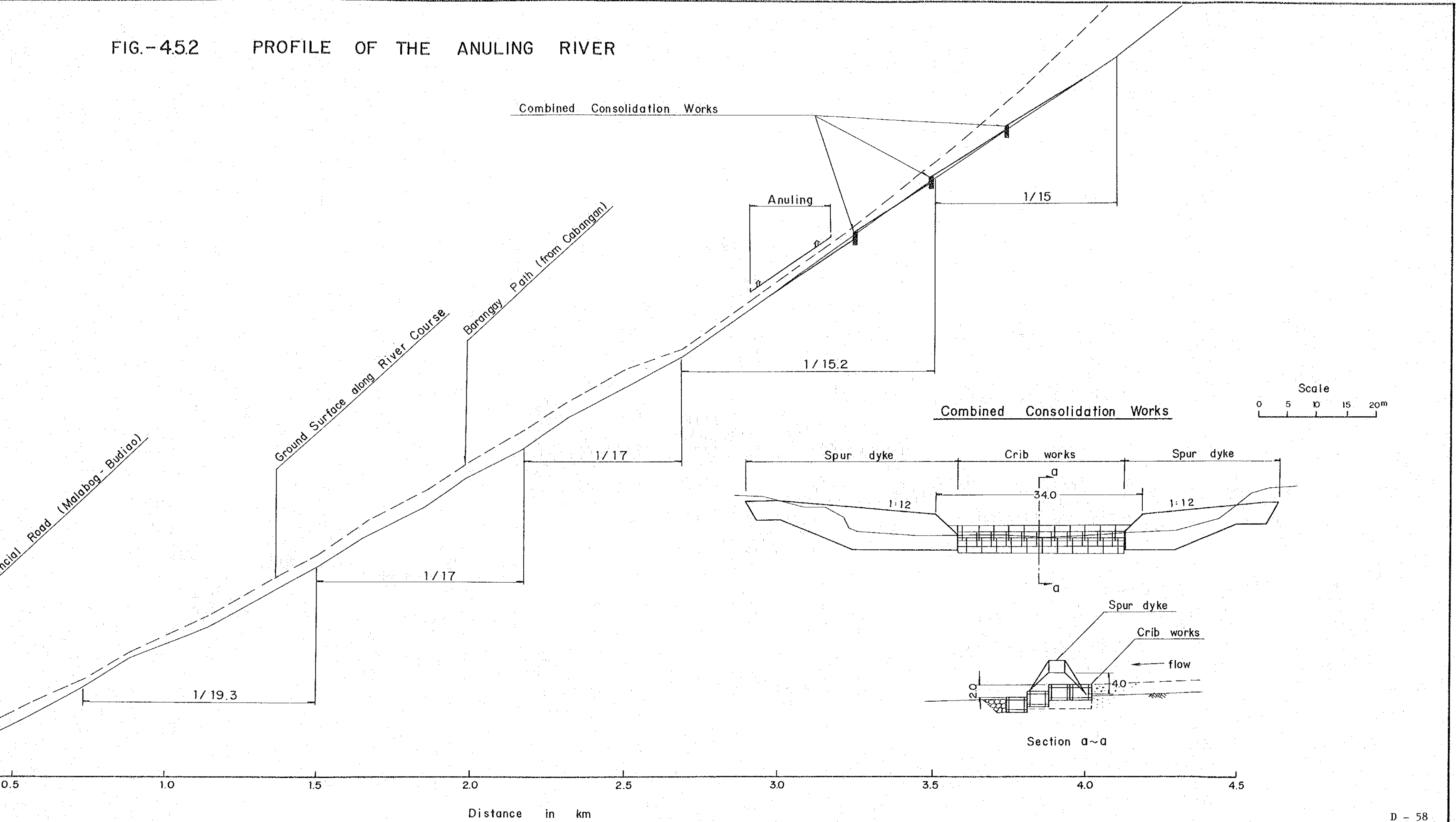


FIG.-4.53 PROFILE OF THE BUDIAO RIVER

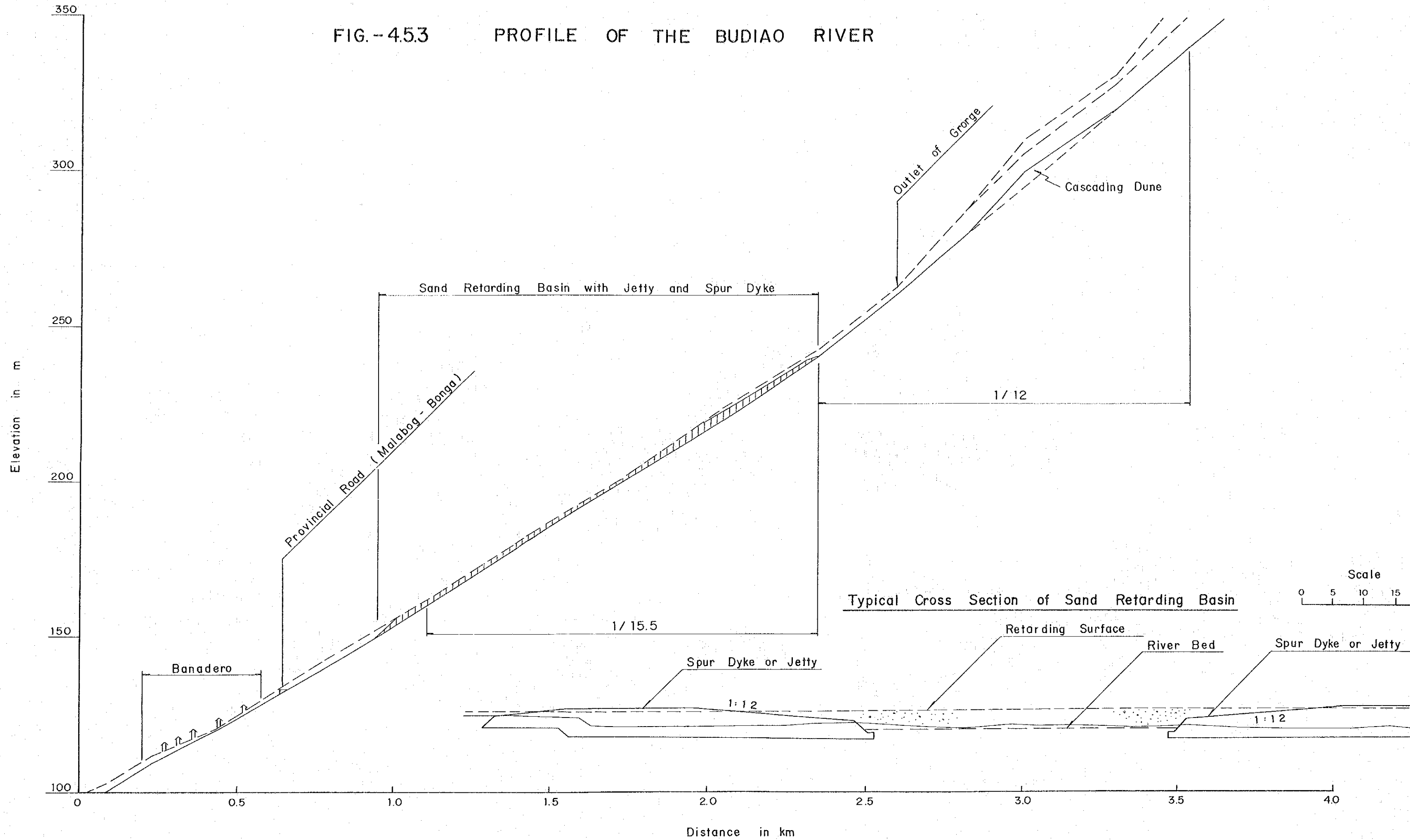


FIG.-4.53

PROFILE OF THE BUDIAO RIVER

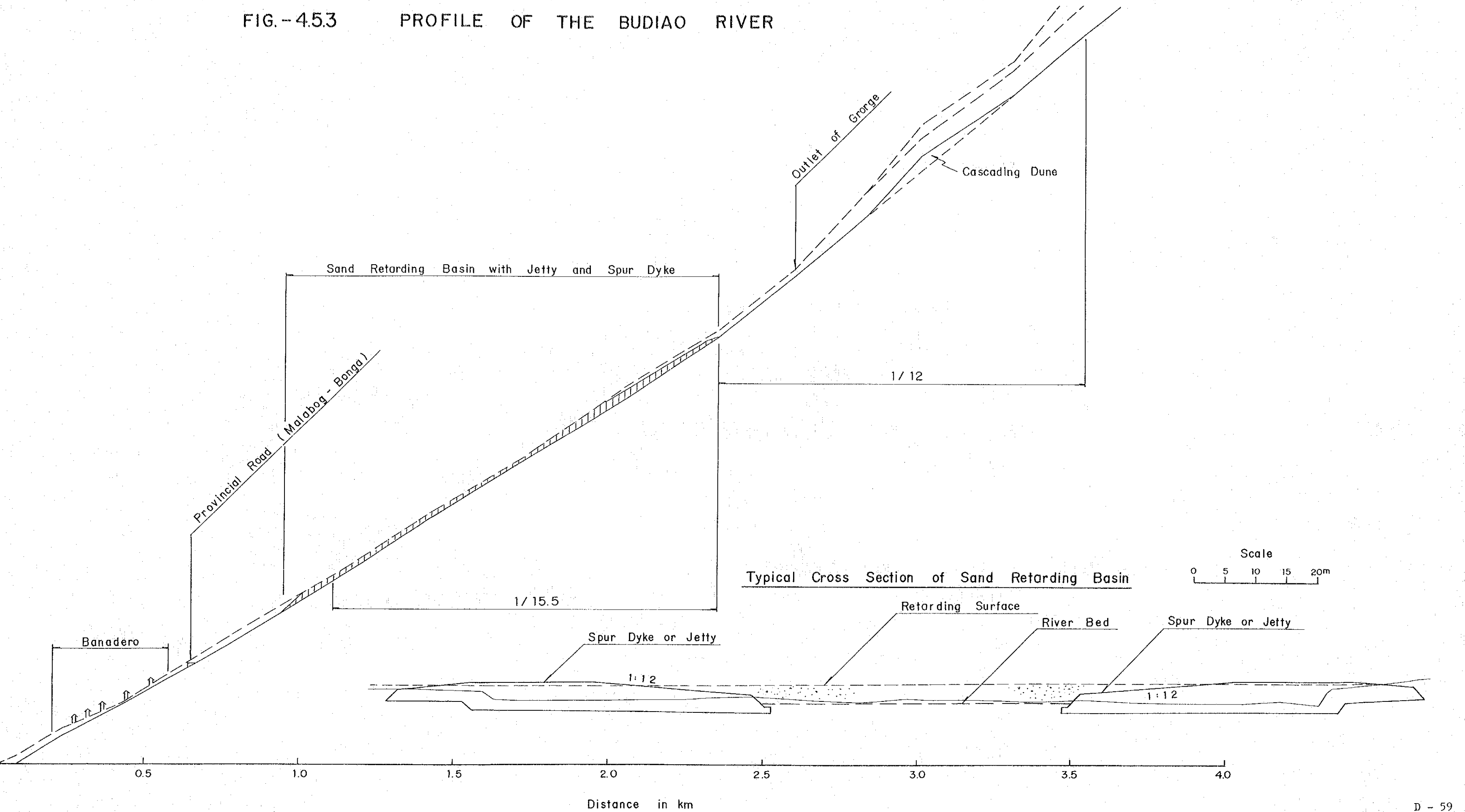


FIG. - 4.5.4 PROFILE OF THE PAWA-BURABOD RIVER

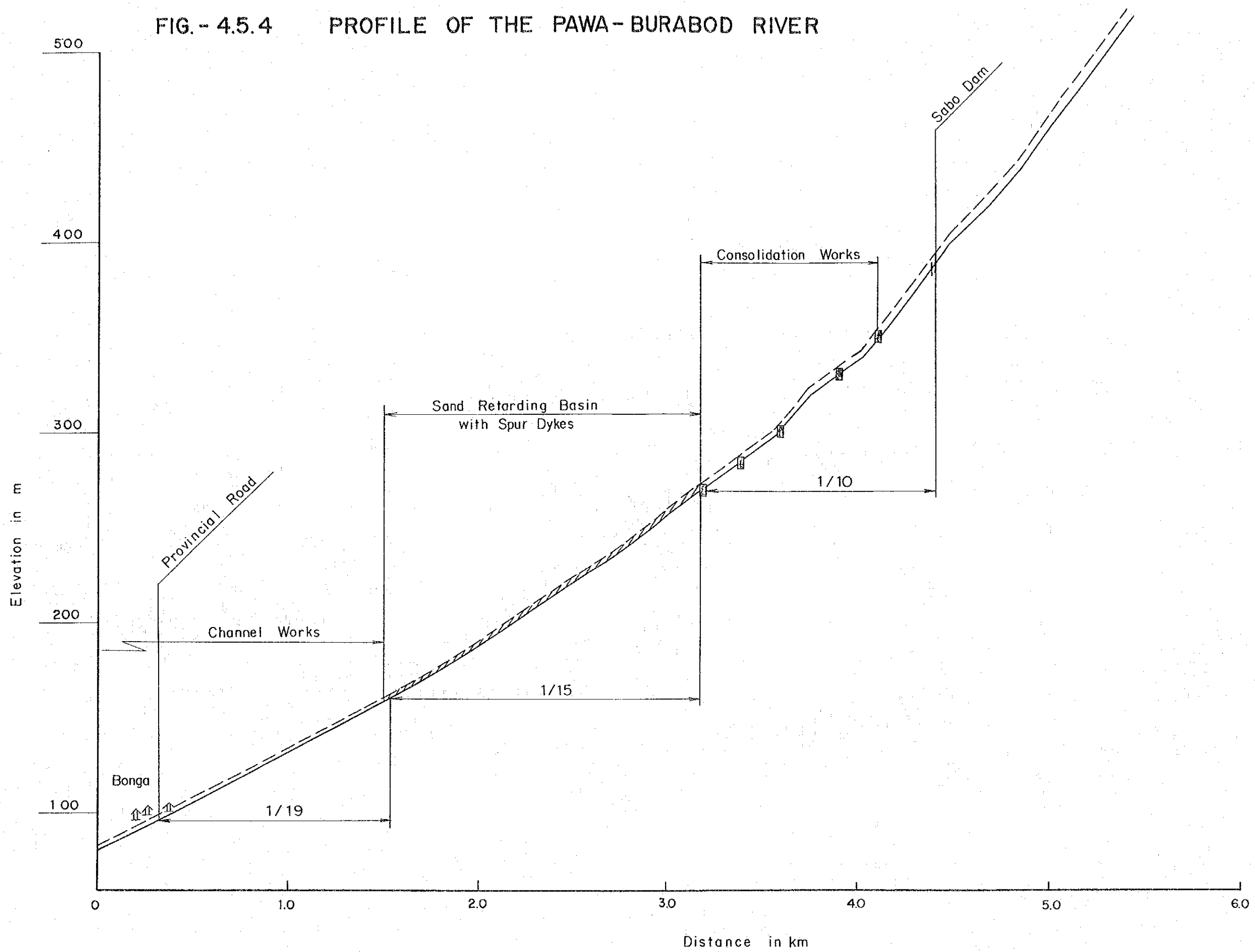
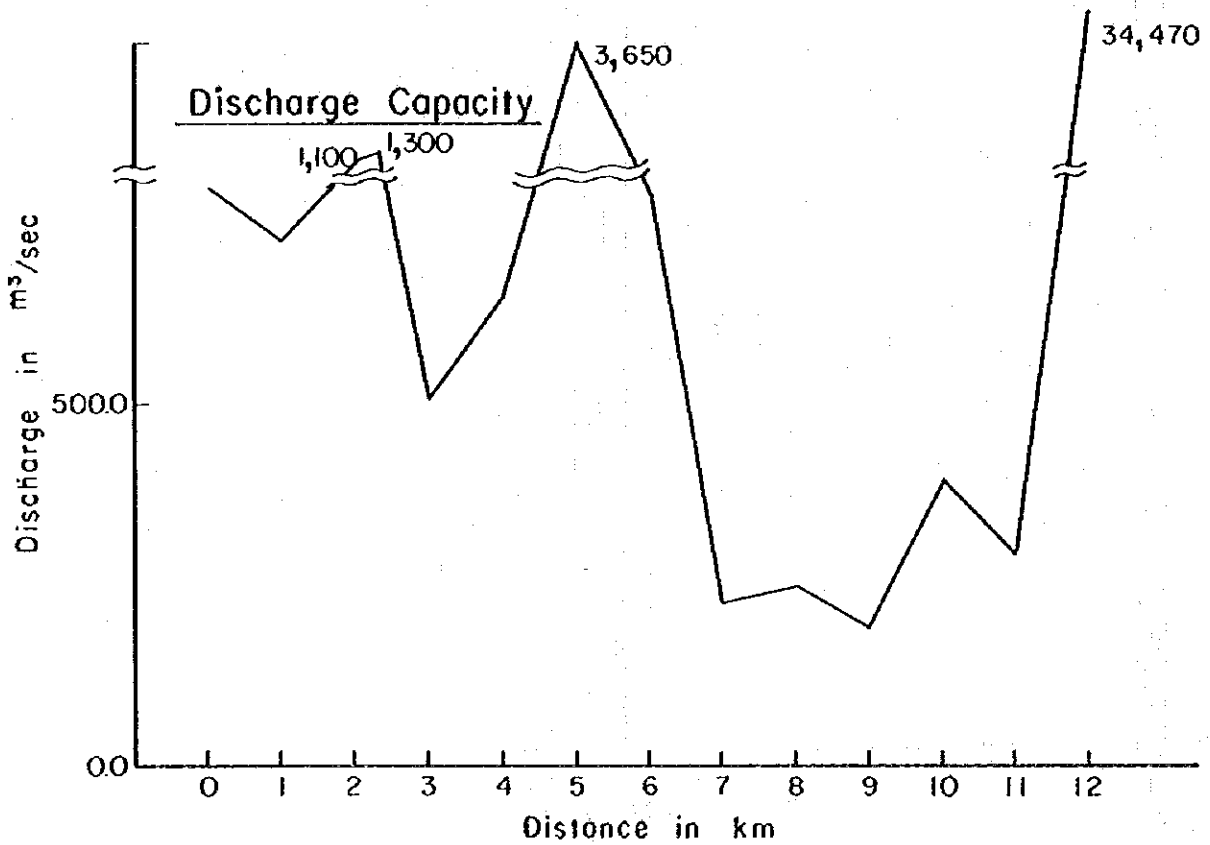
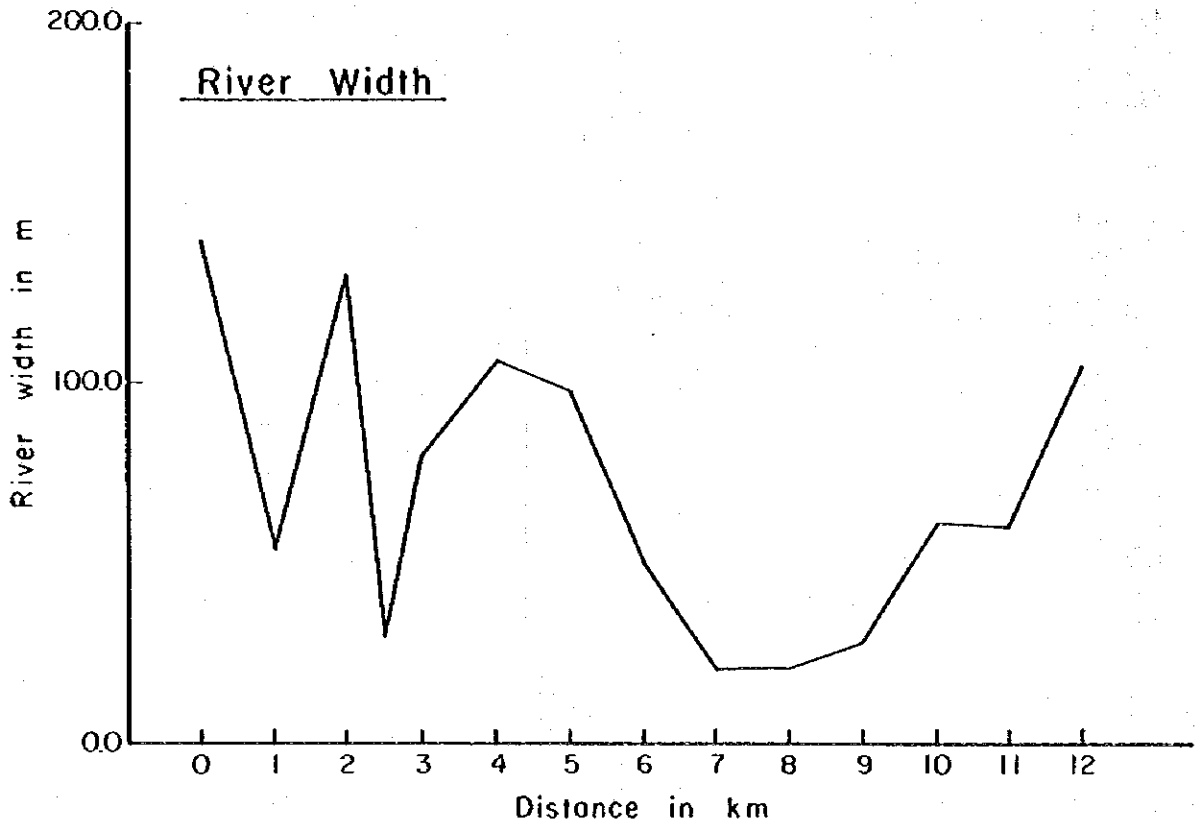




FIG.-4.55 RIVER WIDTH AND DISCHARGE CAPACITY OF THE PRESENT RIVER CHANNEL, THE YAWA RIVER





**FIG-456 DESIGN DISCHARGE DISTRIBUTION DIAGRAM, THE YAWA RIVER  
(RETURN PERIOD 50 - YEAR)**  
Unit : m<sup>3</sup>/sec

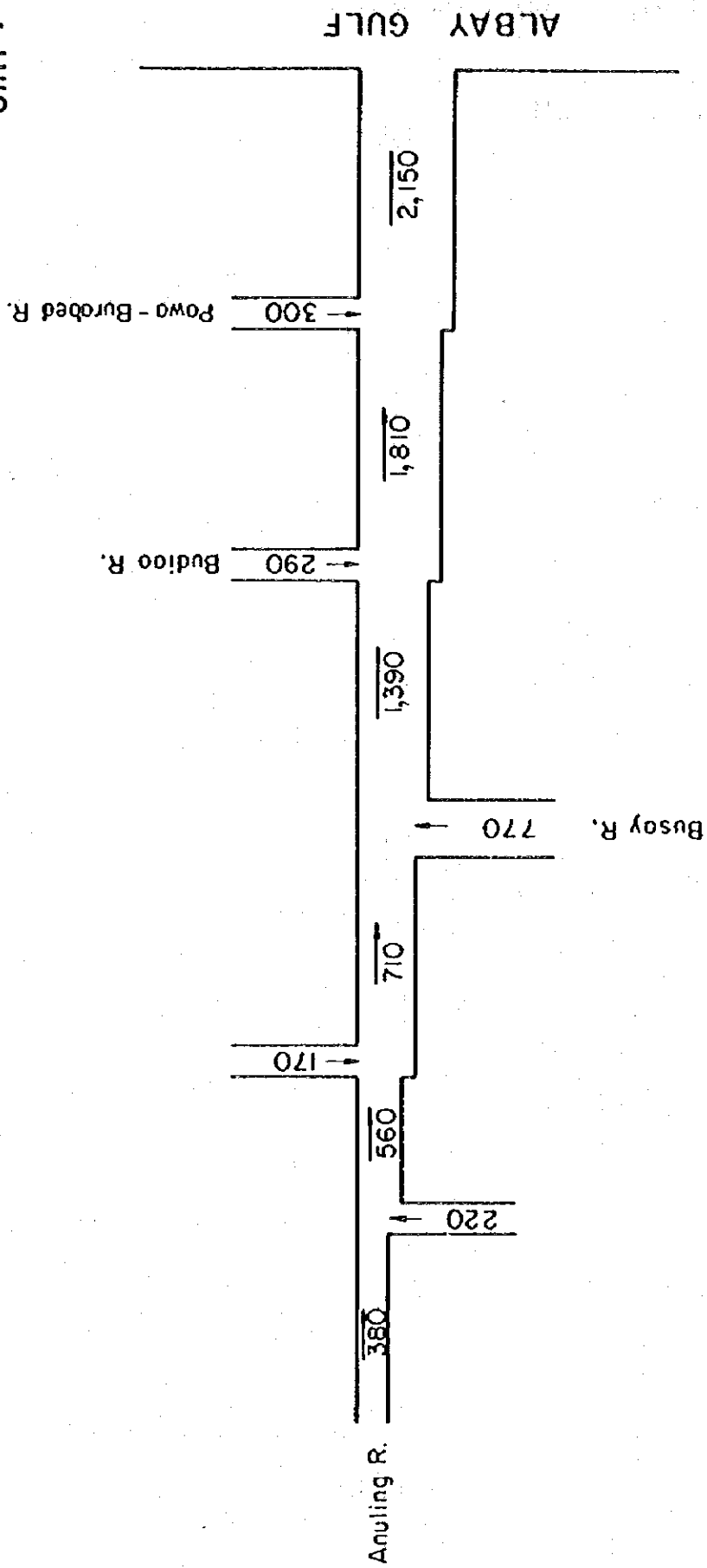




FIG-4.5.7 GENERAL PLAN OF THE YAWA RIVER

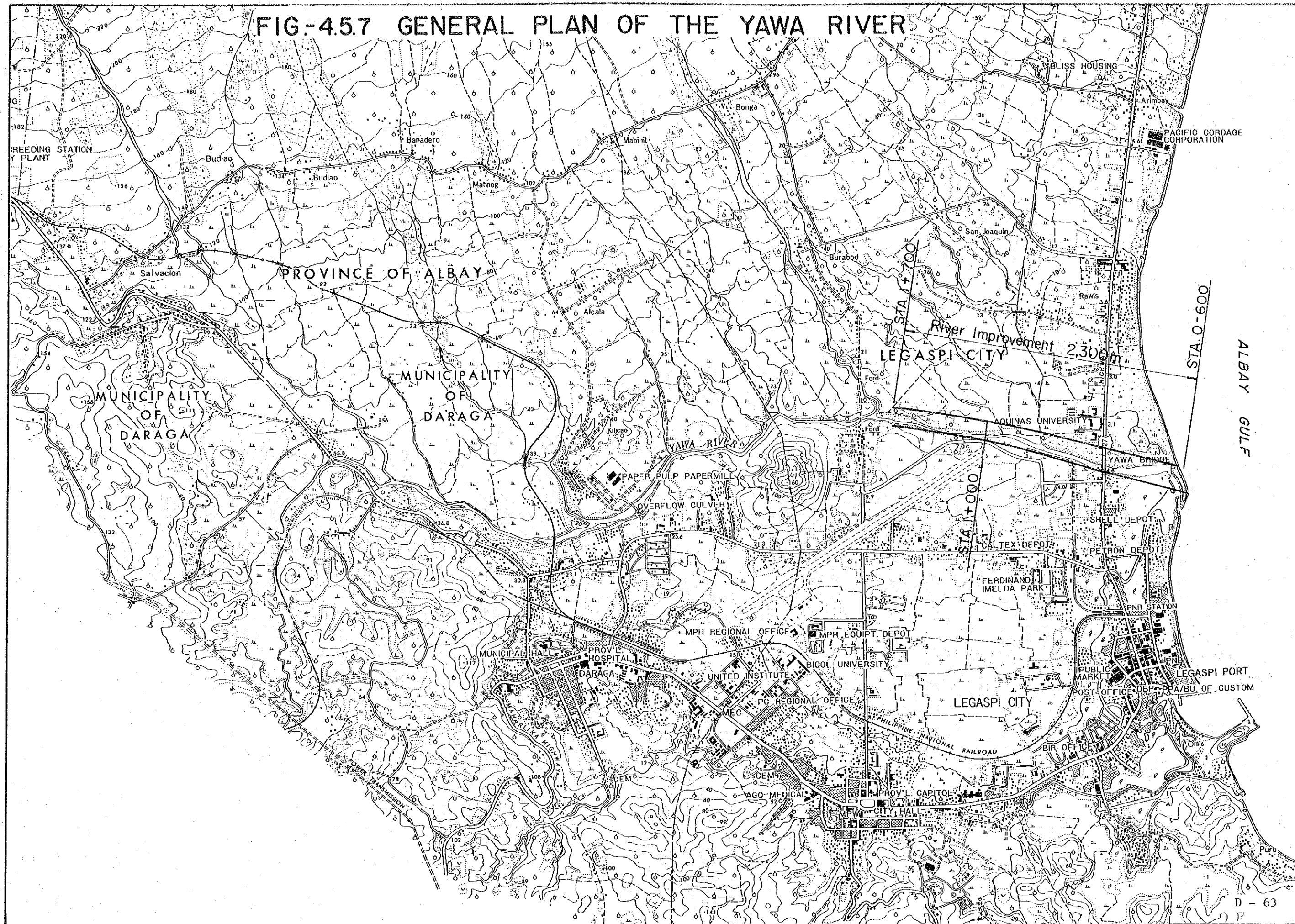
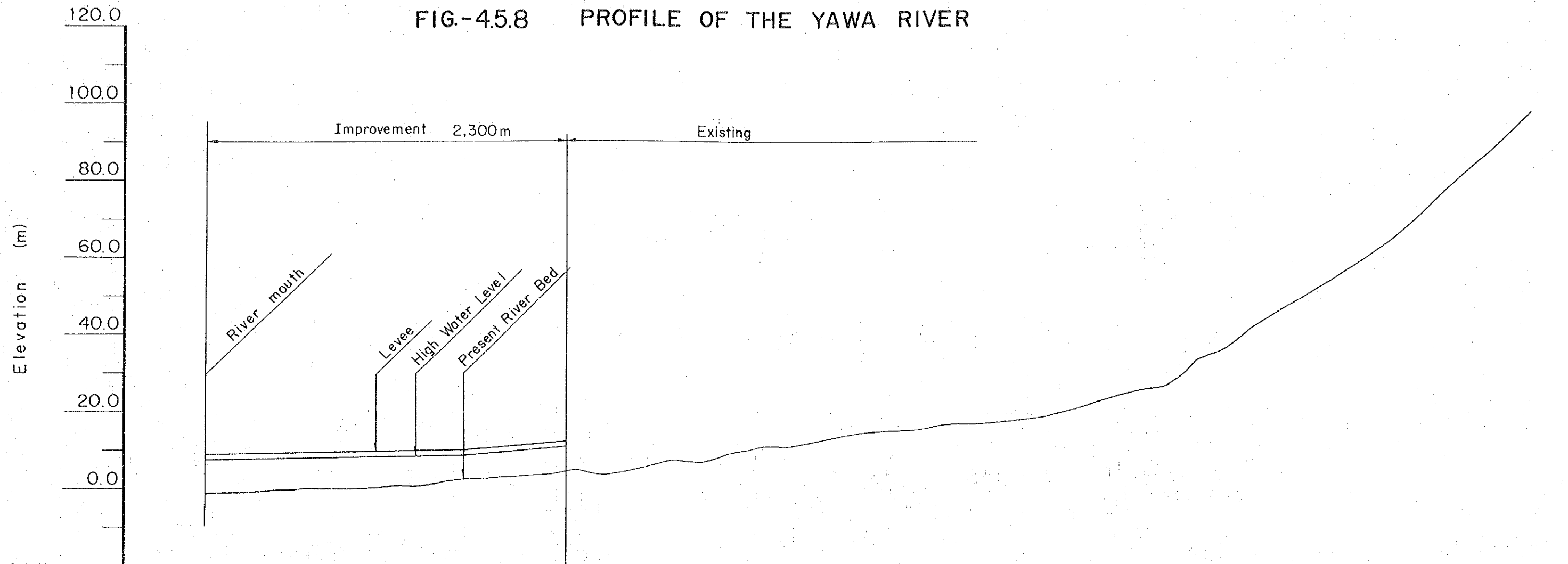


FIG-45.8 PROFILE OF THE YAWA RIVER



Existing River Bed Gradient		$I = \frac{1}{1,000}$		$I = \frac{1}{300}$																
Formation Height of Levee (EL.m)	8.34	8.94		9.60	11.93															
High Water Level (EL.m)	7.14	7.74		8.40	10.73															
Formation Height of River Bed (EL.m)	-1.09	-0.49		1.18	3.51															
Discharge (m <sup>3</sup> /s)	←		2,150		→															
Cumulative Distance (m)	600	0	800	10,000	1,700	2,000	3,000	4,000	5,000	6,000	7,000	8,000								
Station No.	0+600	0+000	0+800	1+000	1+700	2+000	3+000	4+000	5+000	6+000	7+000	8+000								



FIG.-459 TYPICAL CROSS SECTION OF YAWA RIVER

STA. 1 + 000

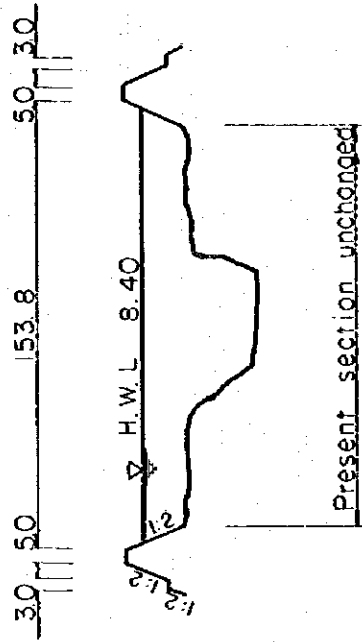


FIG. - 5.2.1 CONSTRUCTION TIME SCHEDULE

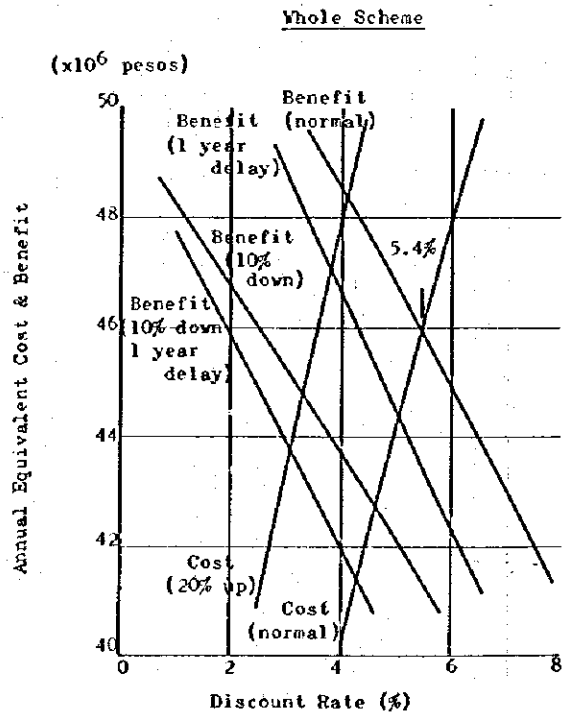
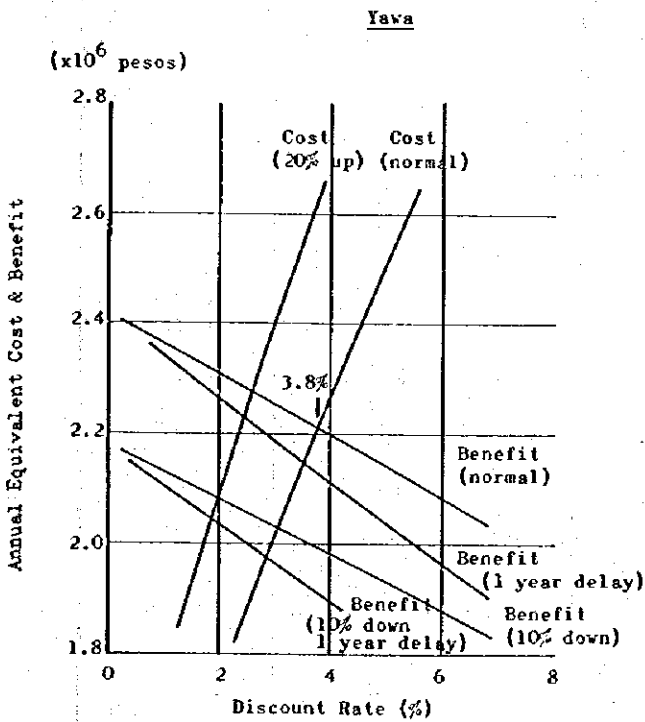
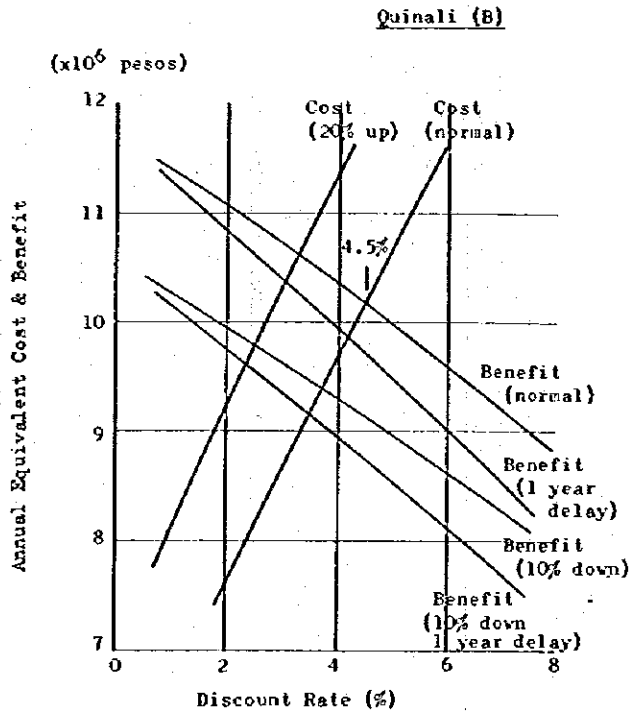
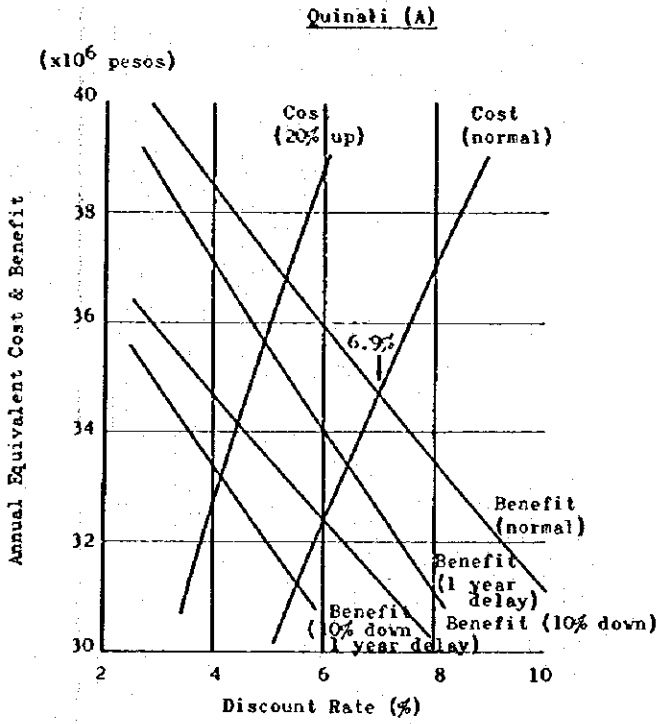
Work Item	1st. Year	2nd Year	3rd. Year	4th. Year	5th. Year	6th. Year	7th. Year	8th. Year	9th. Year	10th. Year
QUINALI (A) RIVER										
Sabo Works										
Quirangy Spur Dike	(EL 140-EL 170)									
Jetty		(EL 130-EL 170)								
Tumpa Consolidation Work										(EL 240-EL 300)
Maninila Consolidation Work										(EL 100-EL 150)
Masarawag Spur Dike								(EL 270)	(EL 190-EL 220)	
Jetty								(EL 270)		
Consolidation Work			(EL 120)							(EL 90-EL 120)
Ogong Consolidation Work				(EL 100)						
Spur Dike & Jetty			(EL 200-EL 280)							
Nasisi Consolidation Dam					EL 227 & EL 200					
Spur Dike						(EL 170)				
Grain & Levee						(EL 100-EL 170)				
Consolidation Work							(EL 80)			
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										
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										

# CONSTRUCTION TIME SCHEDULE

Work Item	1st. Year	2nd. Year	3rd. Year	4th. Year	5th. Year	6th. Year	7th. Year	8th. Year	9th. Year	10th. Year
<b>QUINALI (B) RIVER</b>										
Sabo Works										
Buang Consolidation Dam	(EL. 270-EL. 270)									
Sabo Dam	(EL. 150)									
River Improvement Works										
Levee for the Quinali (B) River										
Levee for the San Francisco River										
Levee for the San Vicente River										
Irrigation Works										
<b>YAWA RIVER</b>										
Sabo Works										
Anuling Consolidation Work										
Budico Spur Dike & Jetty	(EL. 400)									
Pawa-Burabod Sabo Dam										
Spur Dike		(EL. 160-EL. 260)								
River Improvement Works										
Levee for the Yawa River										



# FIG- 6.4.1 SENSITIVITY ANALYSIS









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