

図 - 16 既設河川関連構造物位置図 (1/3)

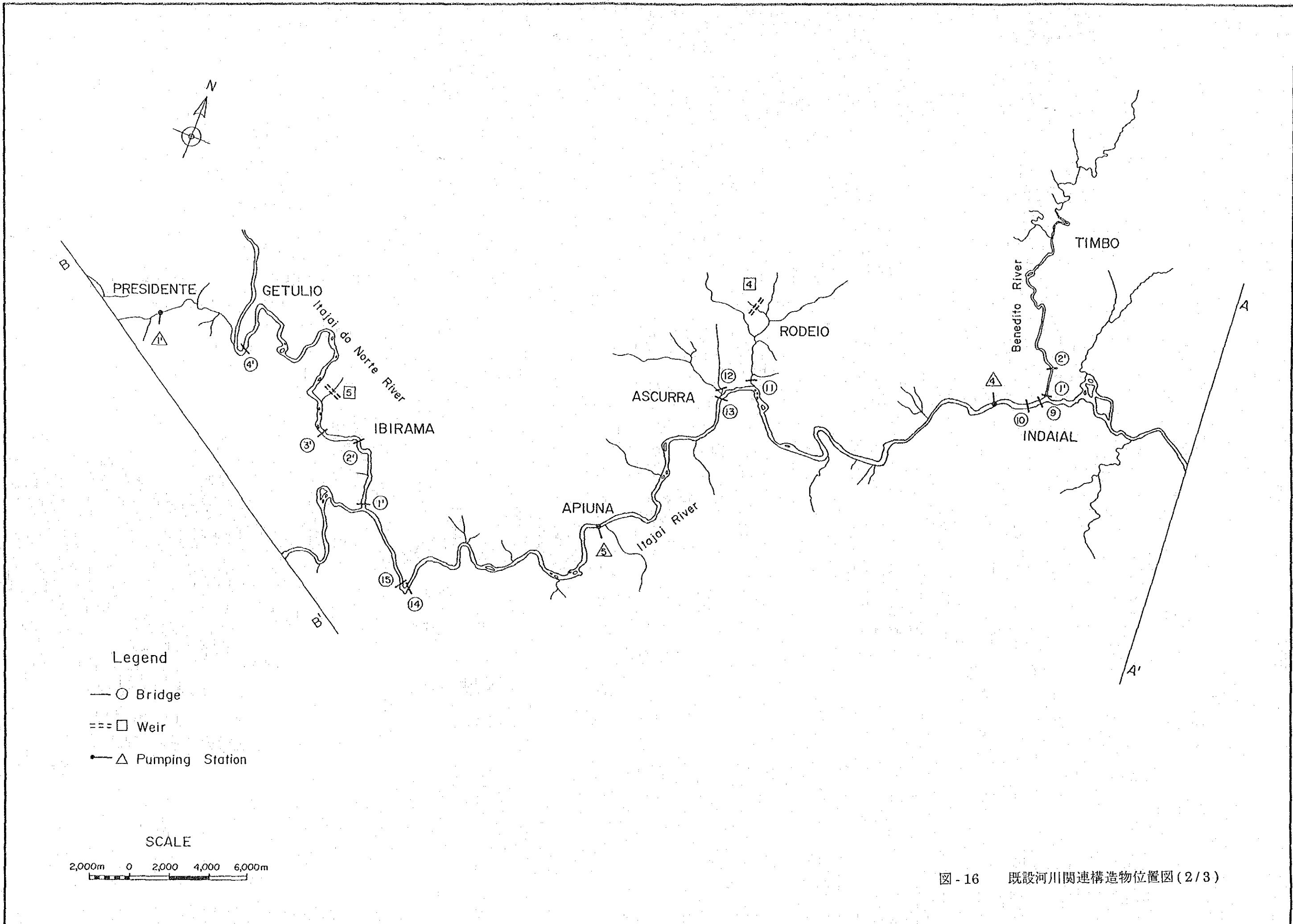


図 - 16 既設河川関連構造物位置図 (2/3)

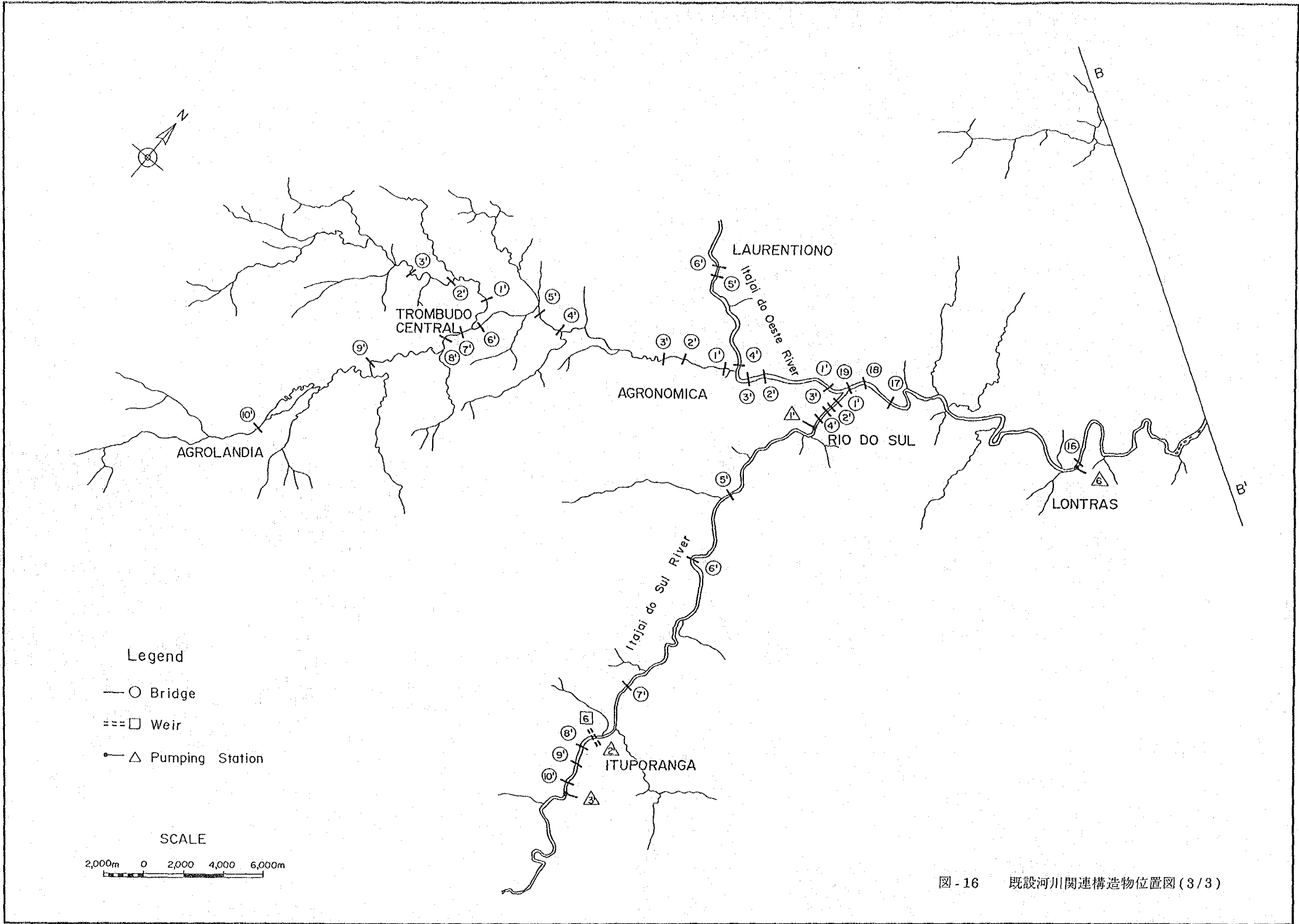
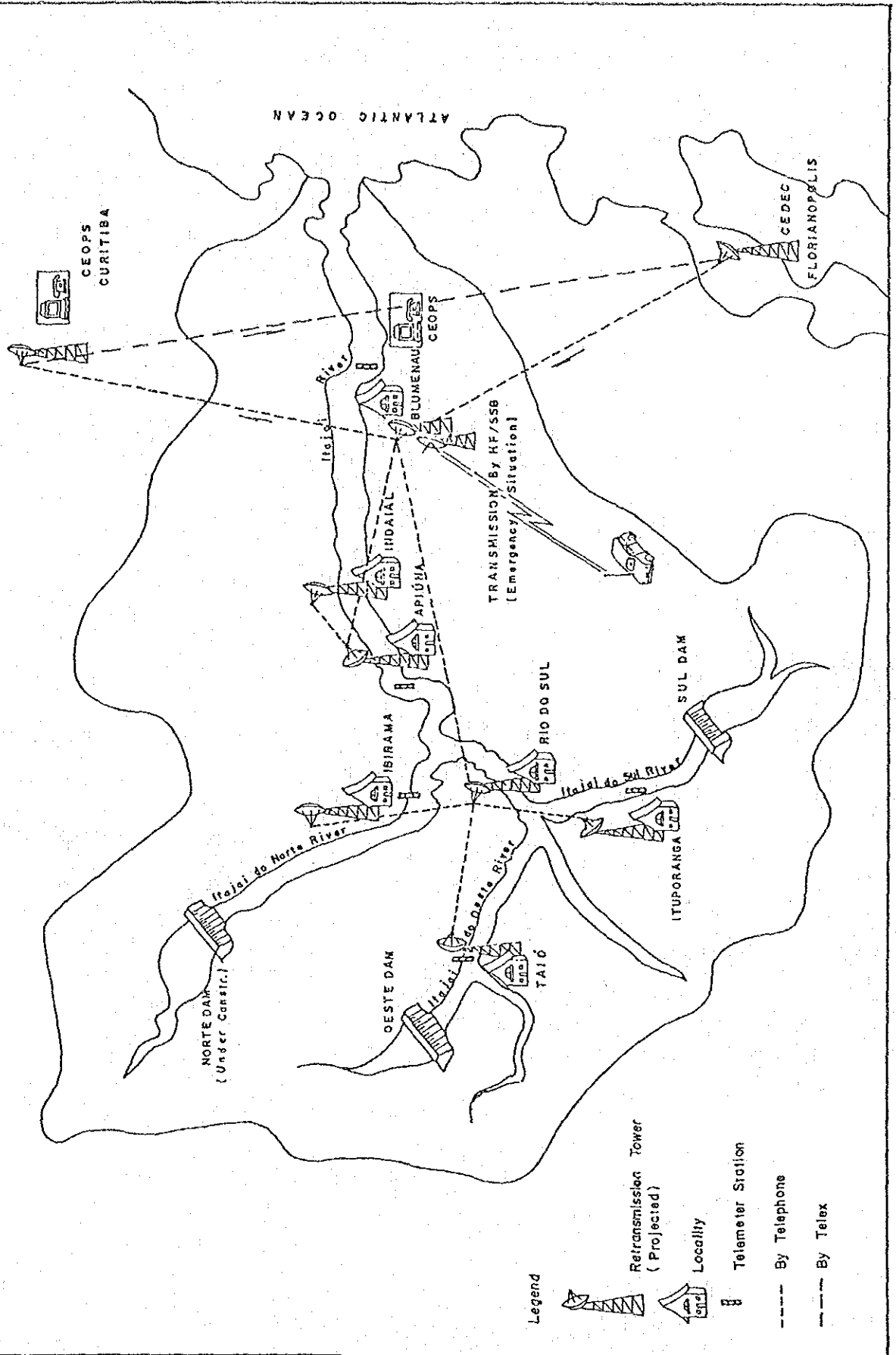


図-16 既設河川関連構造物位置図(3/3)



図-17 既設洪水予警報システム系統図





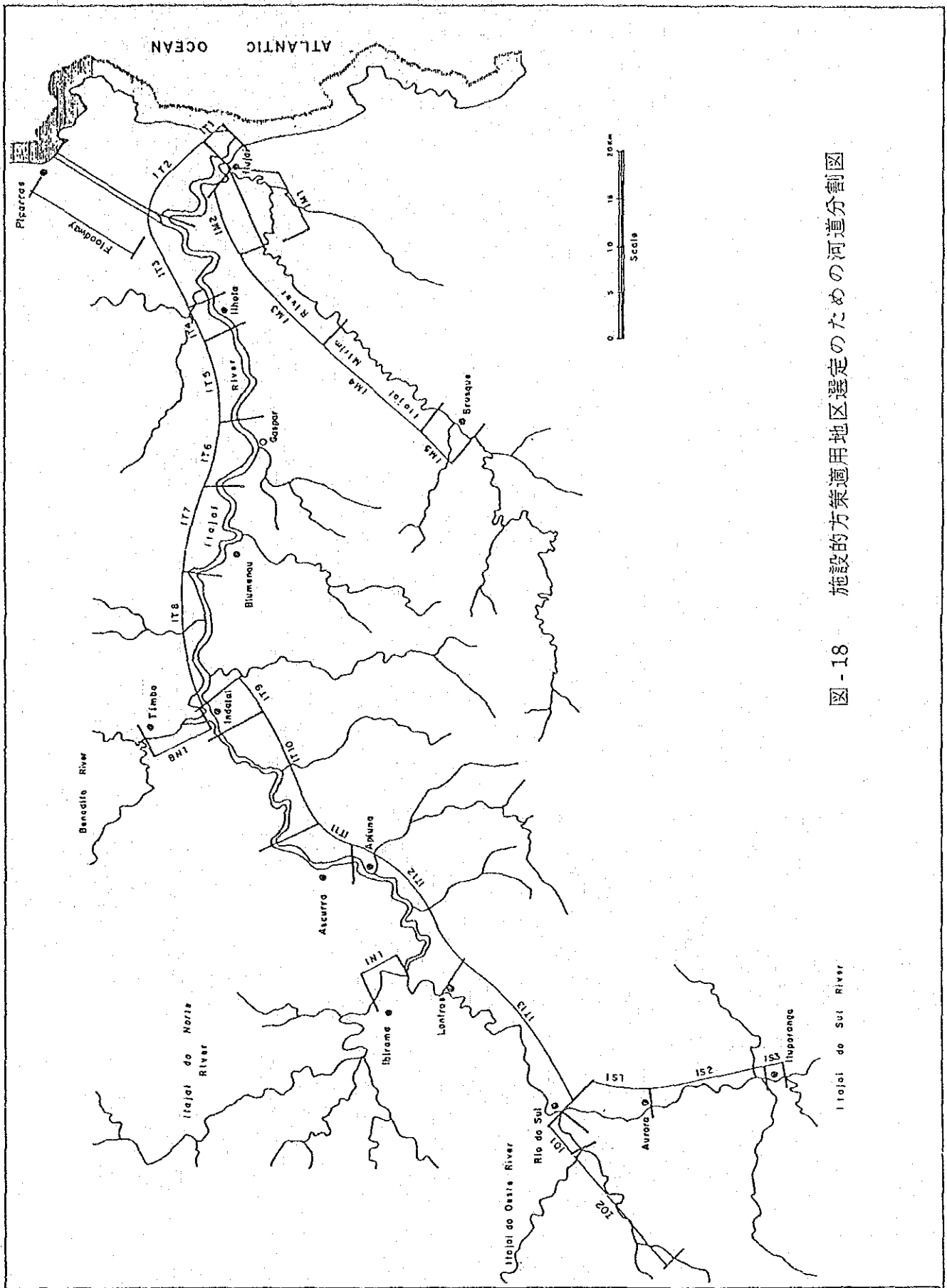


図 - 18 施設の方策適用地区選定のための河道分割図





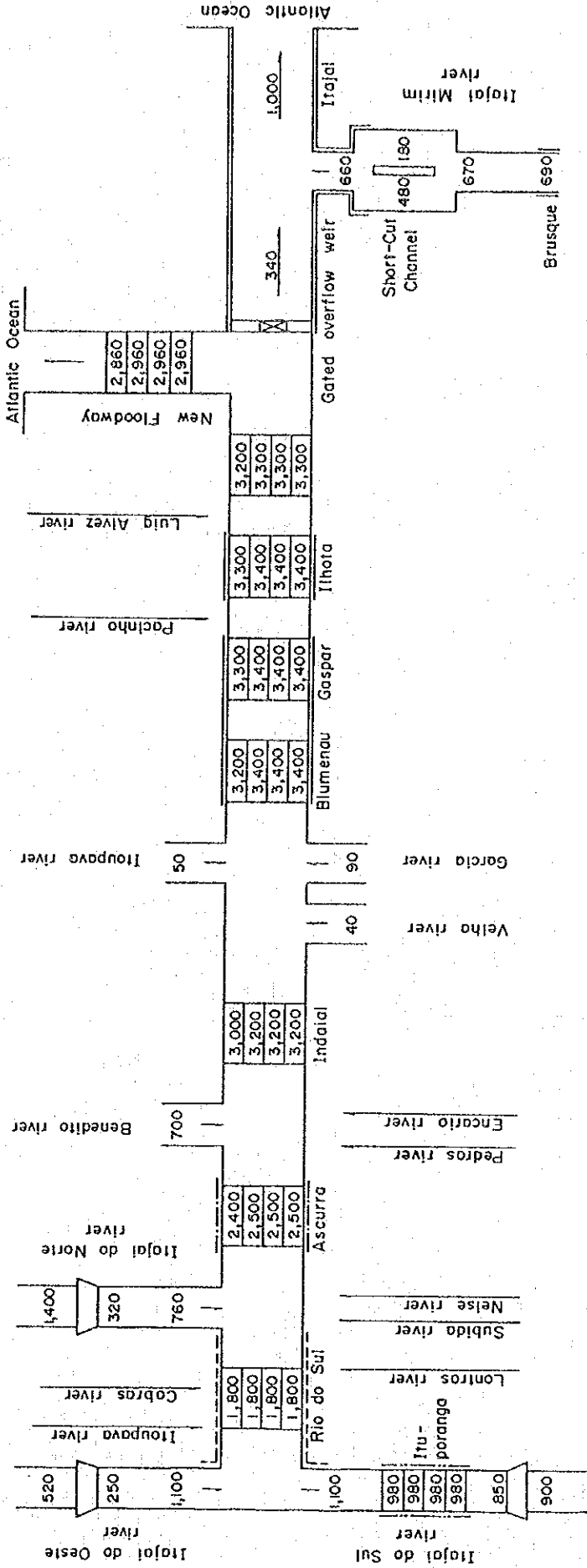
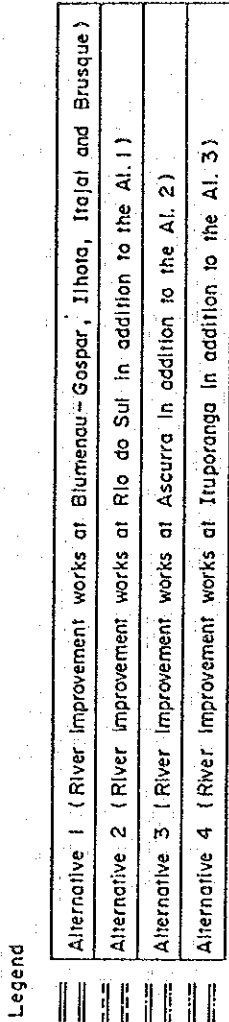


图 - 19 暂定治水案・計画高水流量配分图 (確率年 1 / 10)

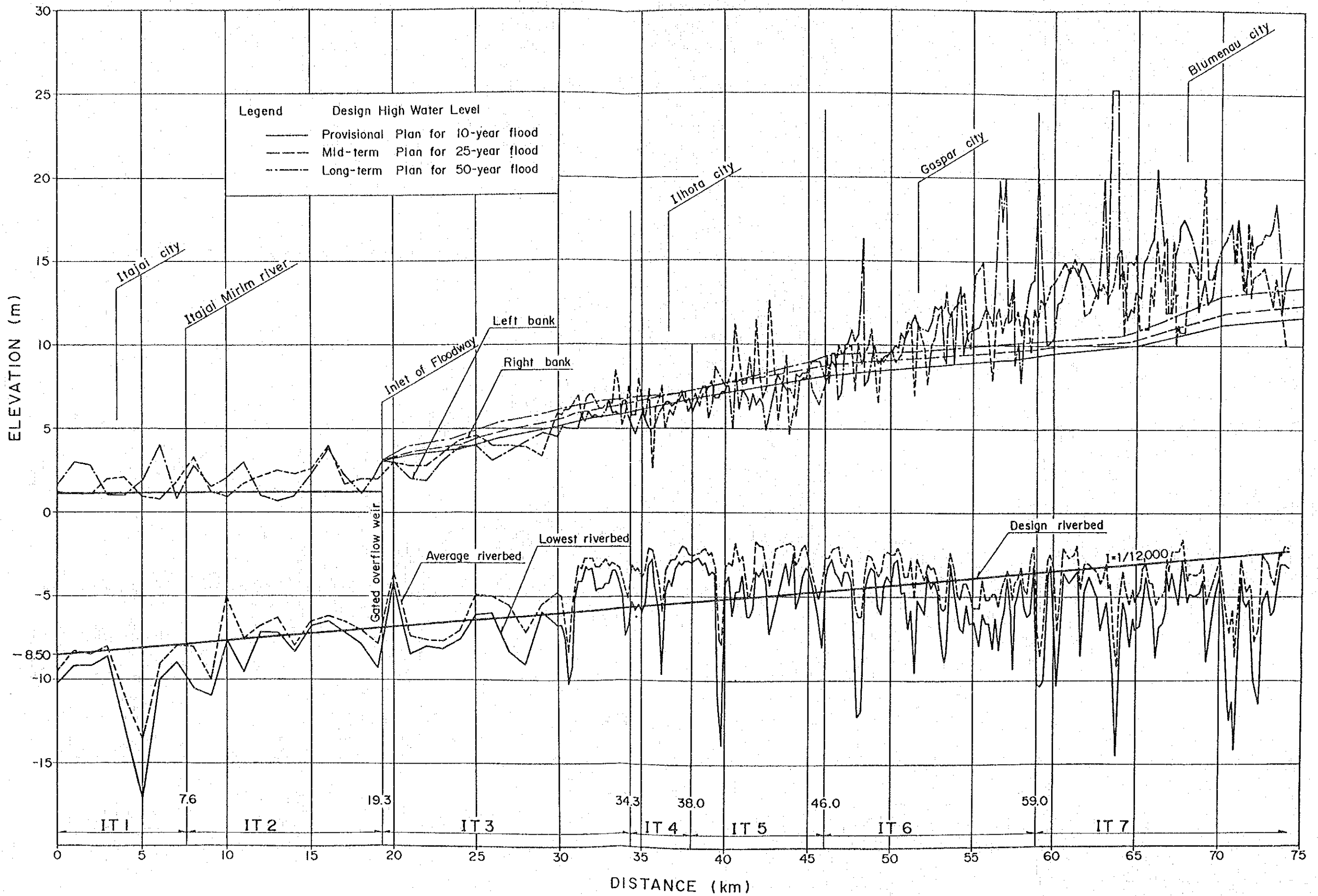
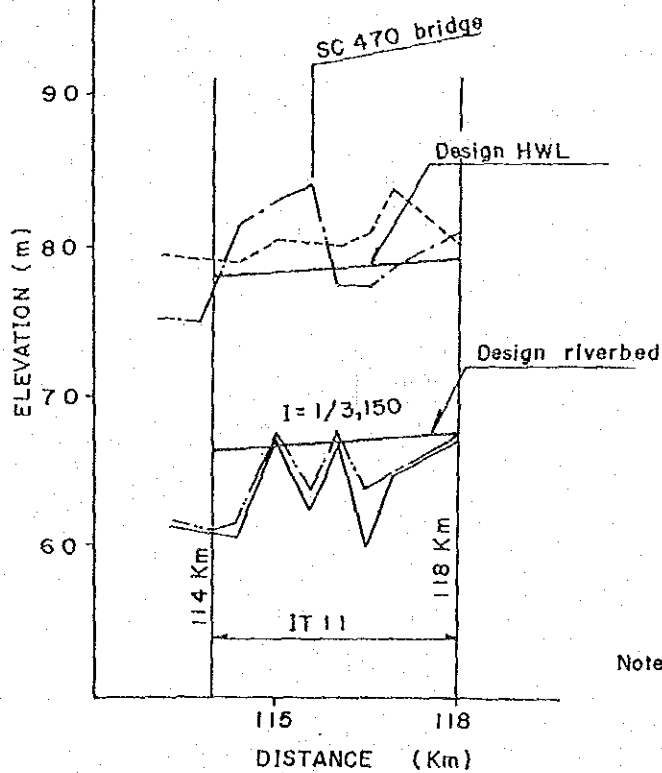
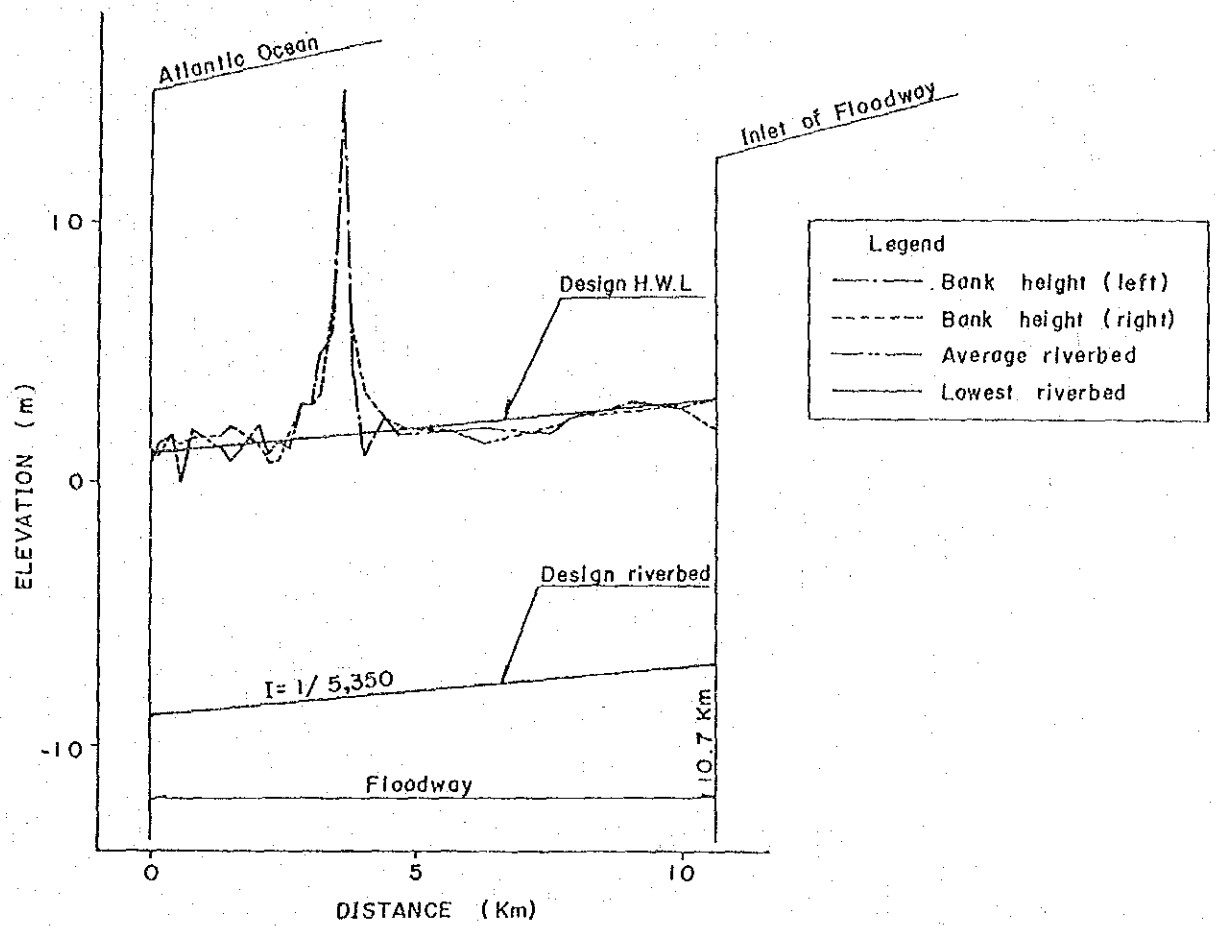


图-20 計画河道縦断面图(1/4)





Note; Design H.W.L. will be the same level in any plan.

圖 - 20 計画河道縦断図 (2/4)



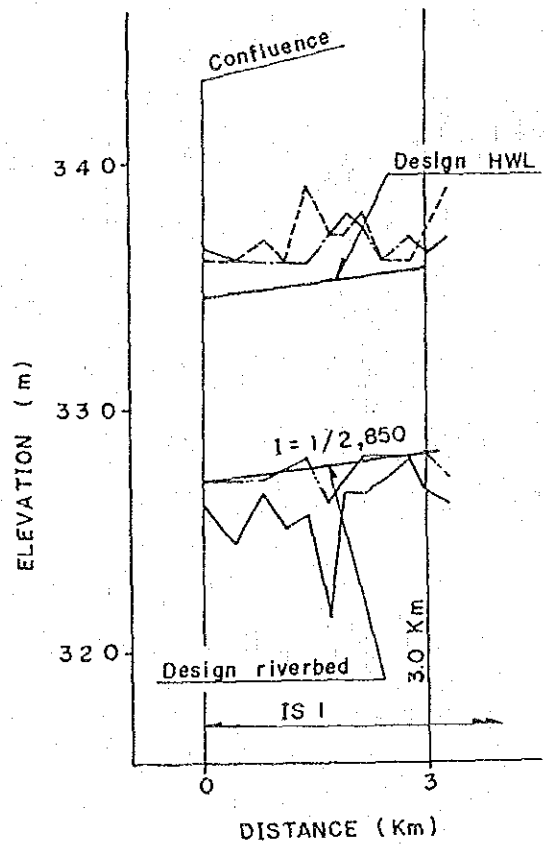
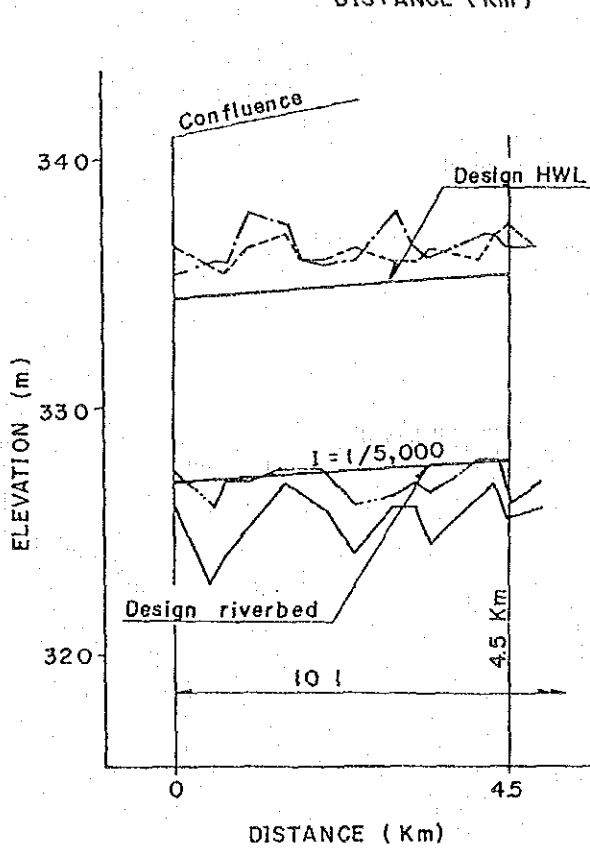
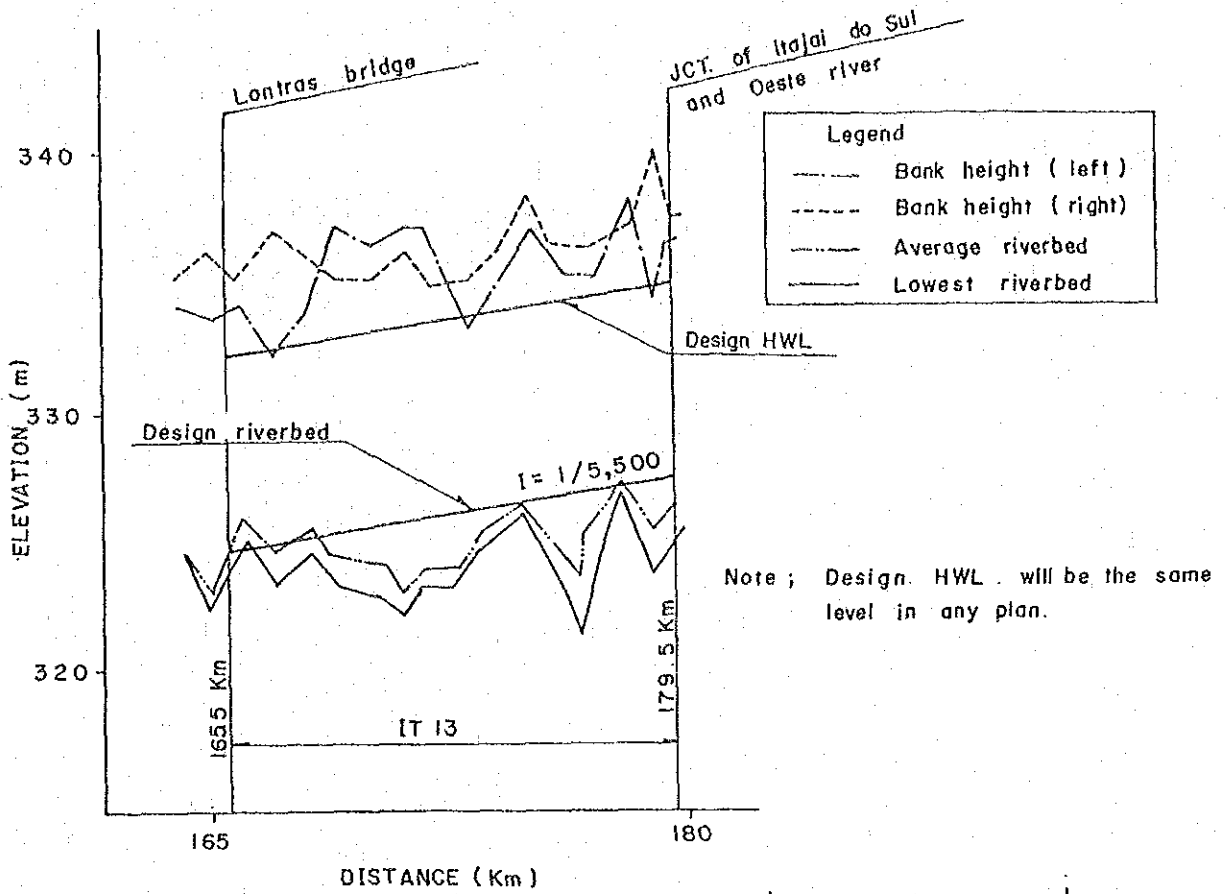


图 - 20 計画河道縦断図 (3/4)



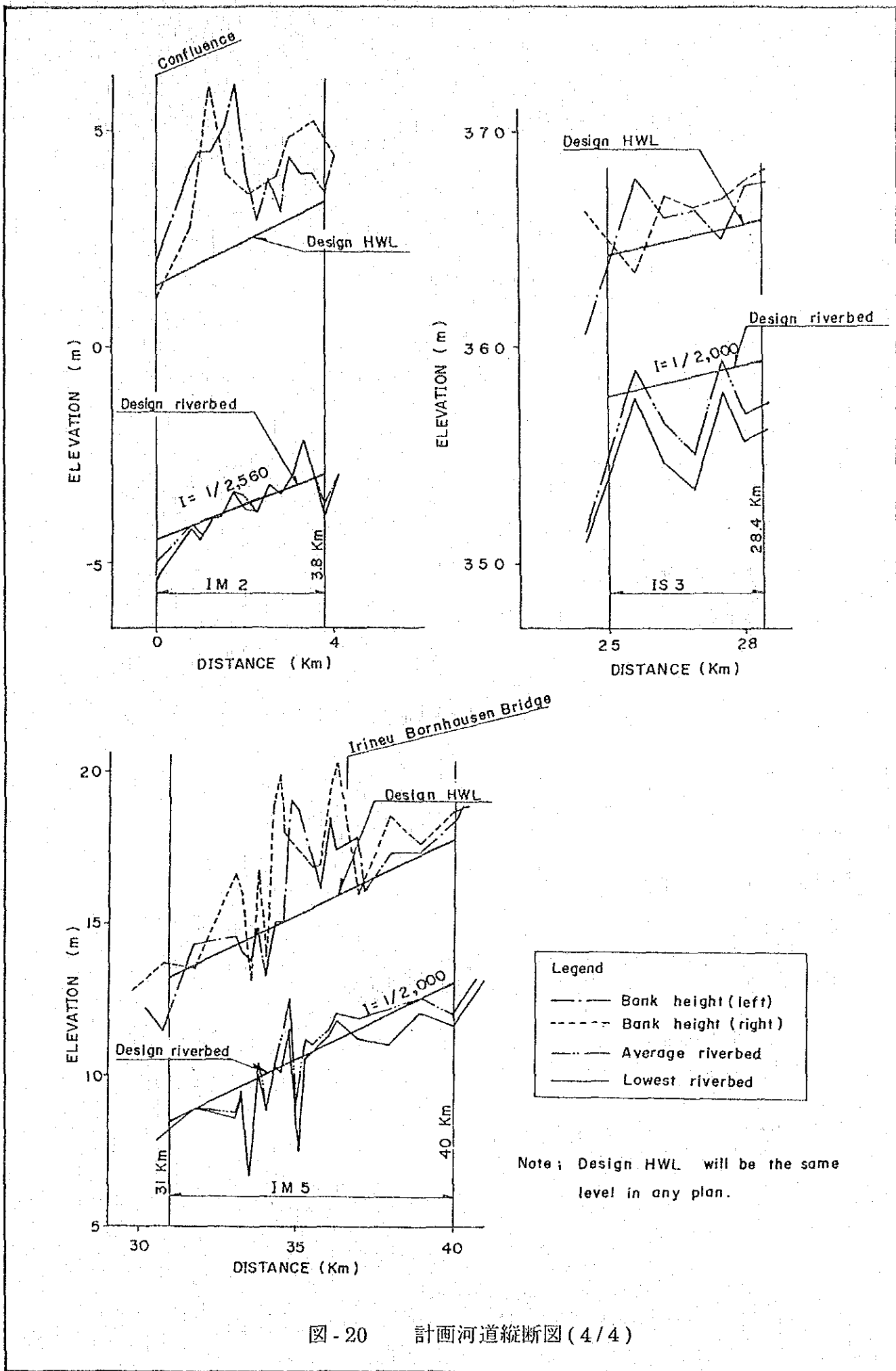
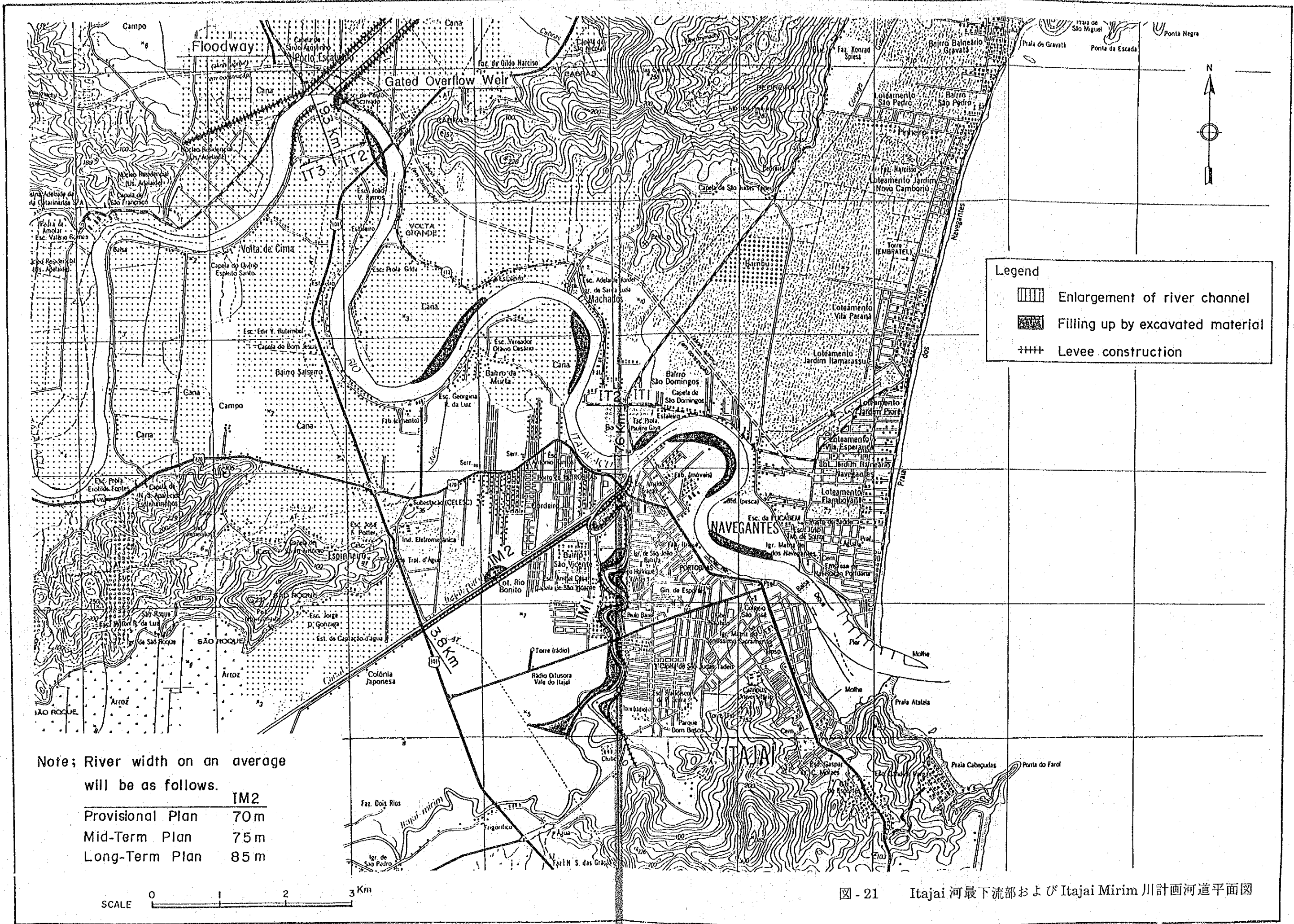


圖 - 20 計画河道縦断面圖 (4/4)





Note; River width on an average will be as follows.

	IM2
Provisional Plan	70m
Mid-Term Plan	75m
Long-Term Plan	85m

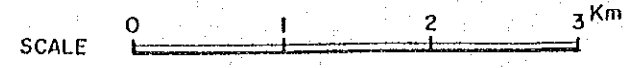


図 - 21 Itajai 河最下流部および Itajai Mirim 川計画河道平面図



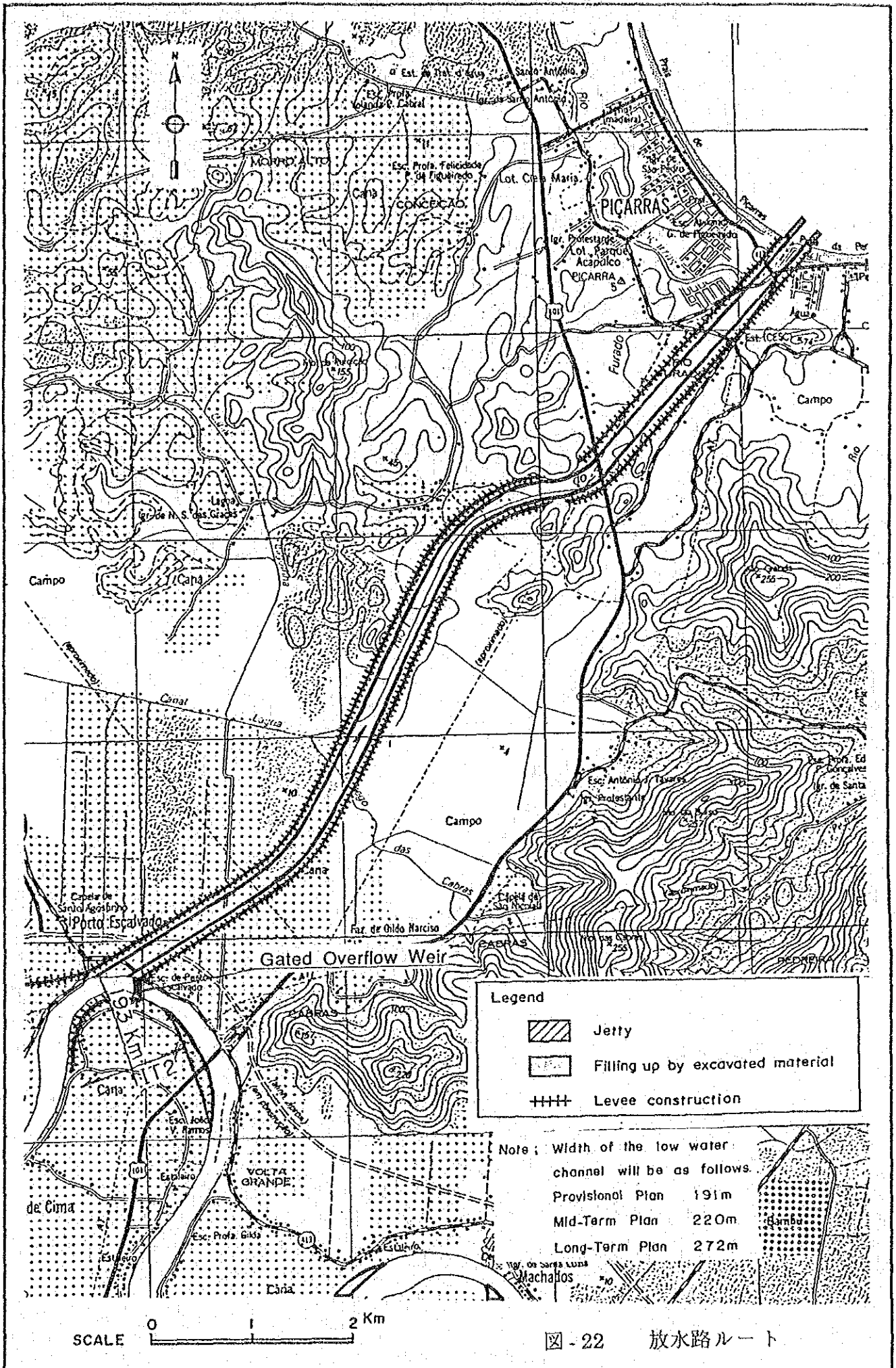
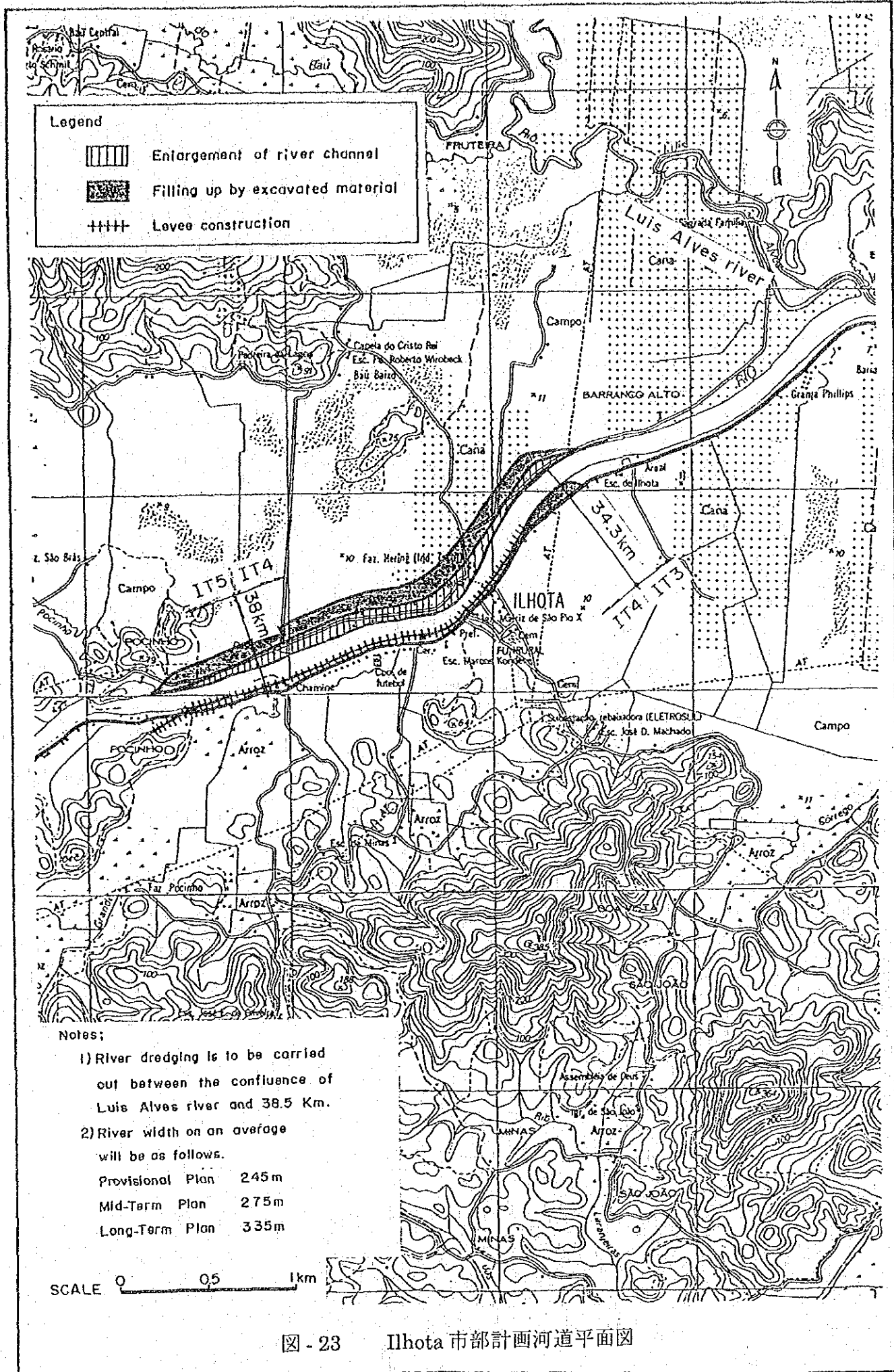





図 - 22 放水路ルート





**Legend**

-  Enlargement of river channel
-  Filling up by excavated material
-  Levee construction

- Notes:**
- 1) River dredging is to be carried out between the confluence of Luis Alves river and 38.5 Km.
  - 2) River width on an average will be as follows.
 

Provisional Plan	245 m
Mid-Term Plan	275 m
Long-Term Plan	335 m

SCALE 0 0.5 1 km

图 - 23 Ilhota 市部計畫河道平面圖

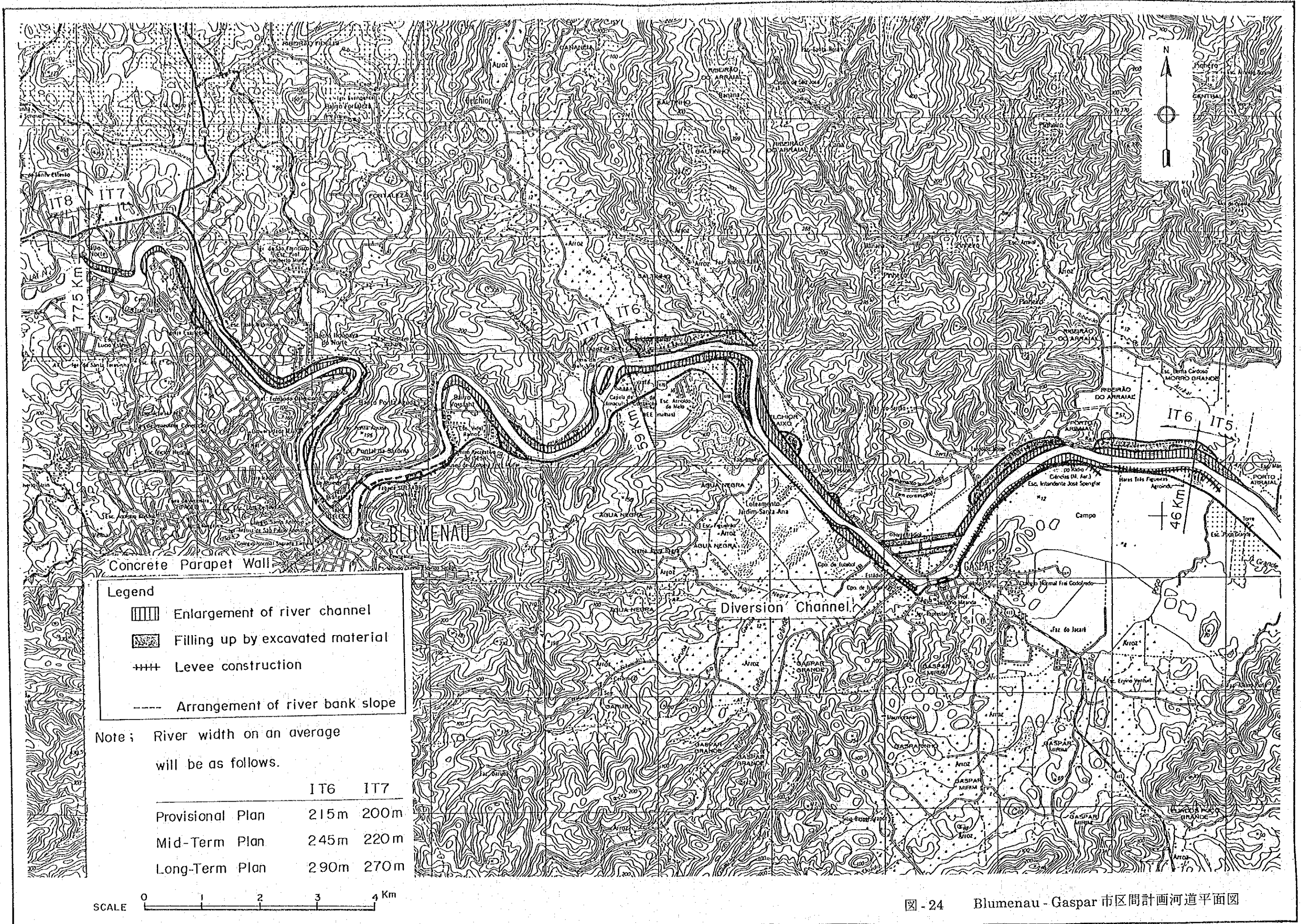


图-24 Blumenau-Gaspar 市区间计划河道平面图



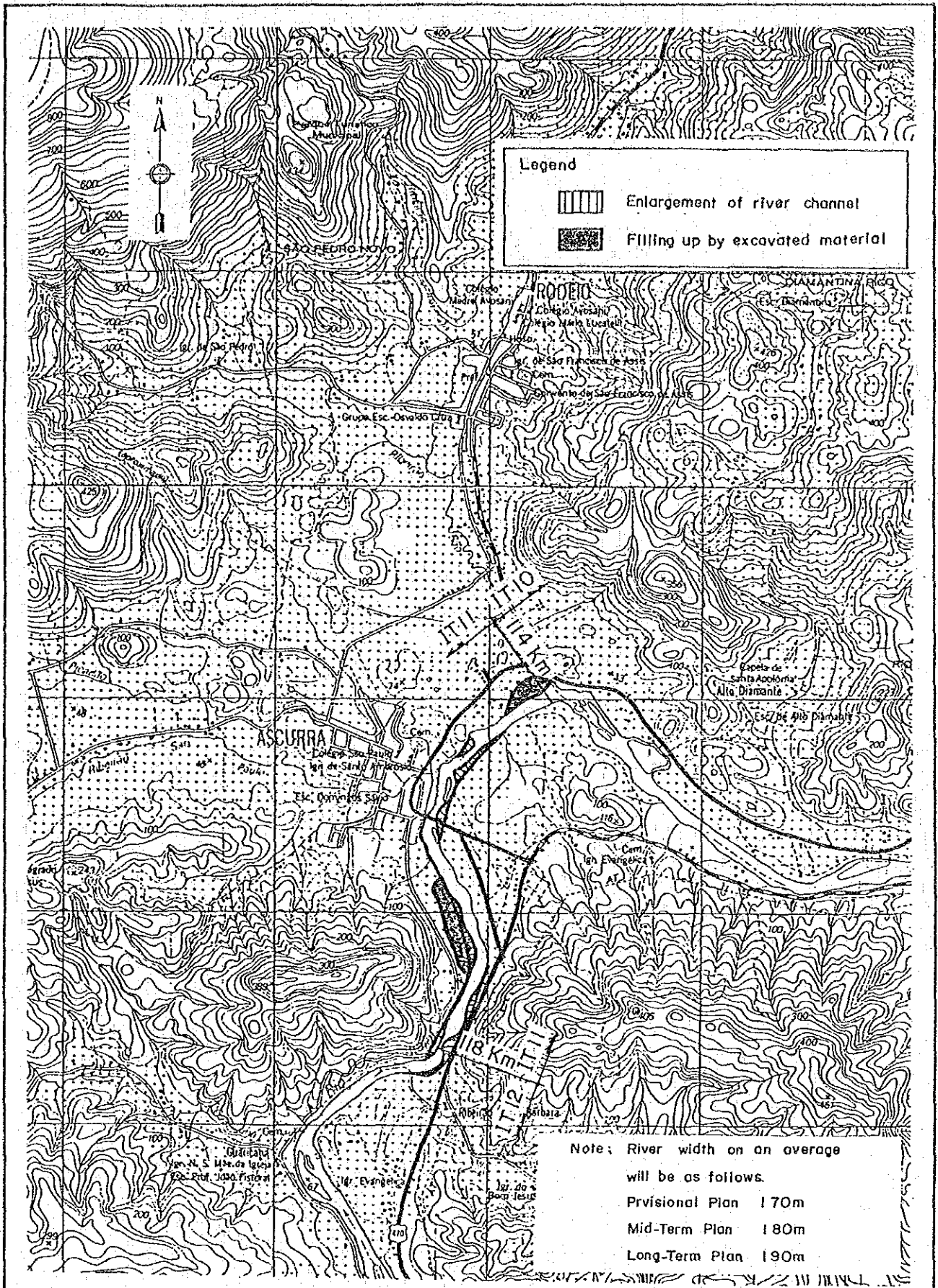
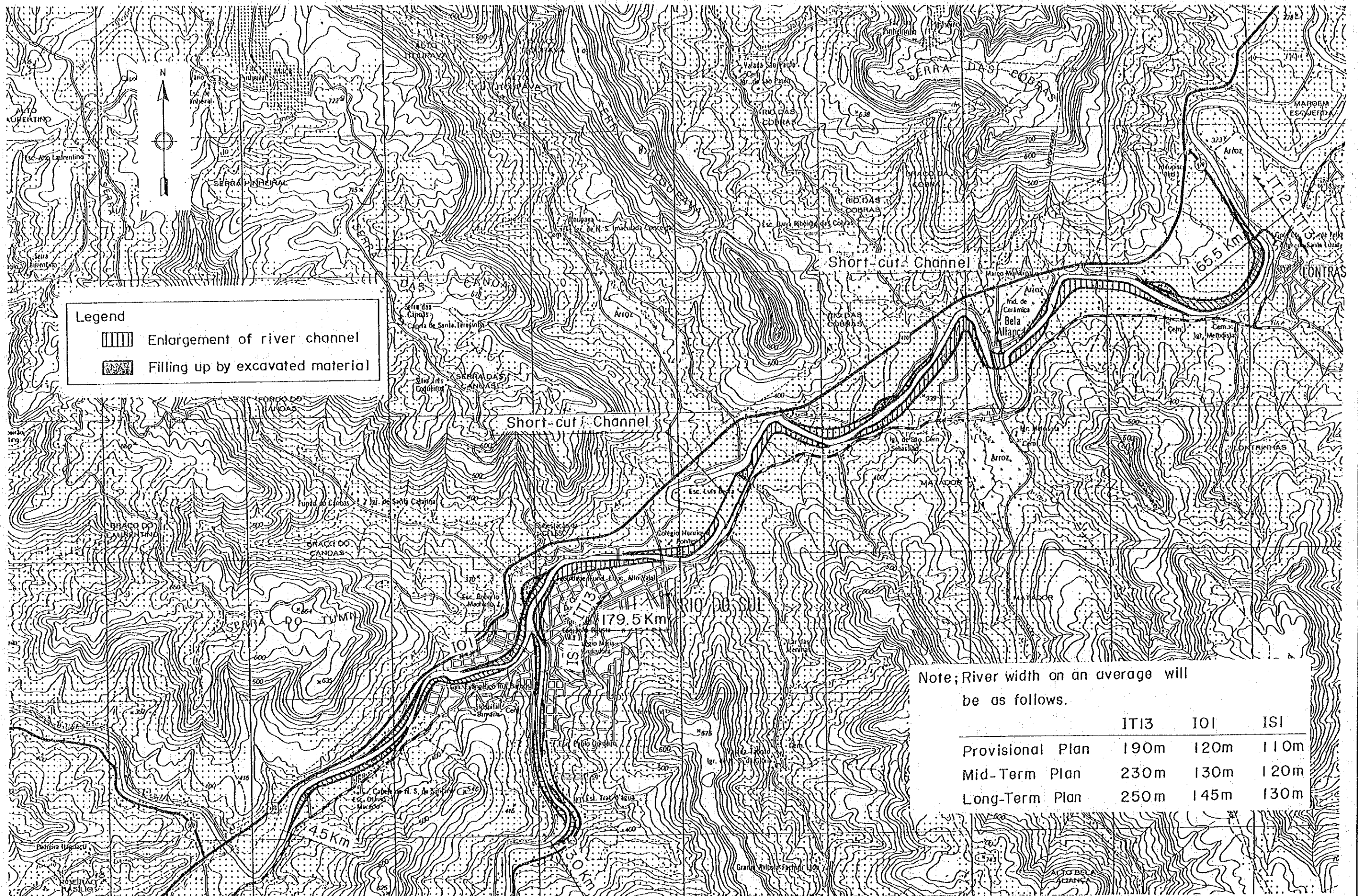




图 - 25 Ascurra 市部計画河道平面图





Legend

-  Enlargement of river channel
-  Filling up by excavated material

Note; River width on an average will be as follows.

	IT13	IO1	ISI
Provisional Plan	190m	120m	110m
Mid-Term Plan	230m	130m	120m
Long-Term Plan	250m	145m	130m

SCALE 0 1 2 3 Km

图 - 26 Rio do Sul - Lontras 市区間計画河道平面图



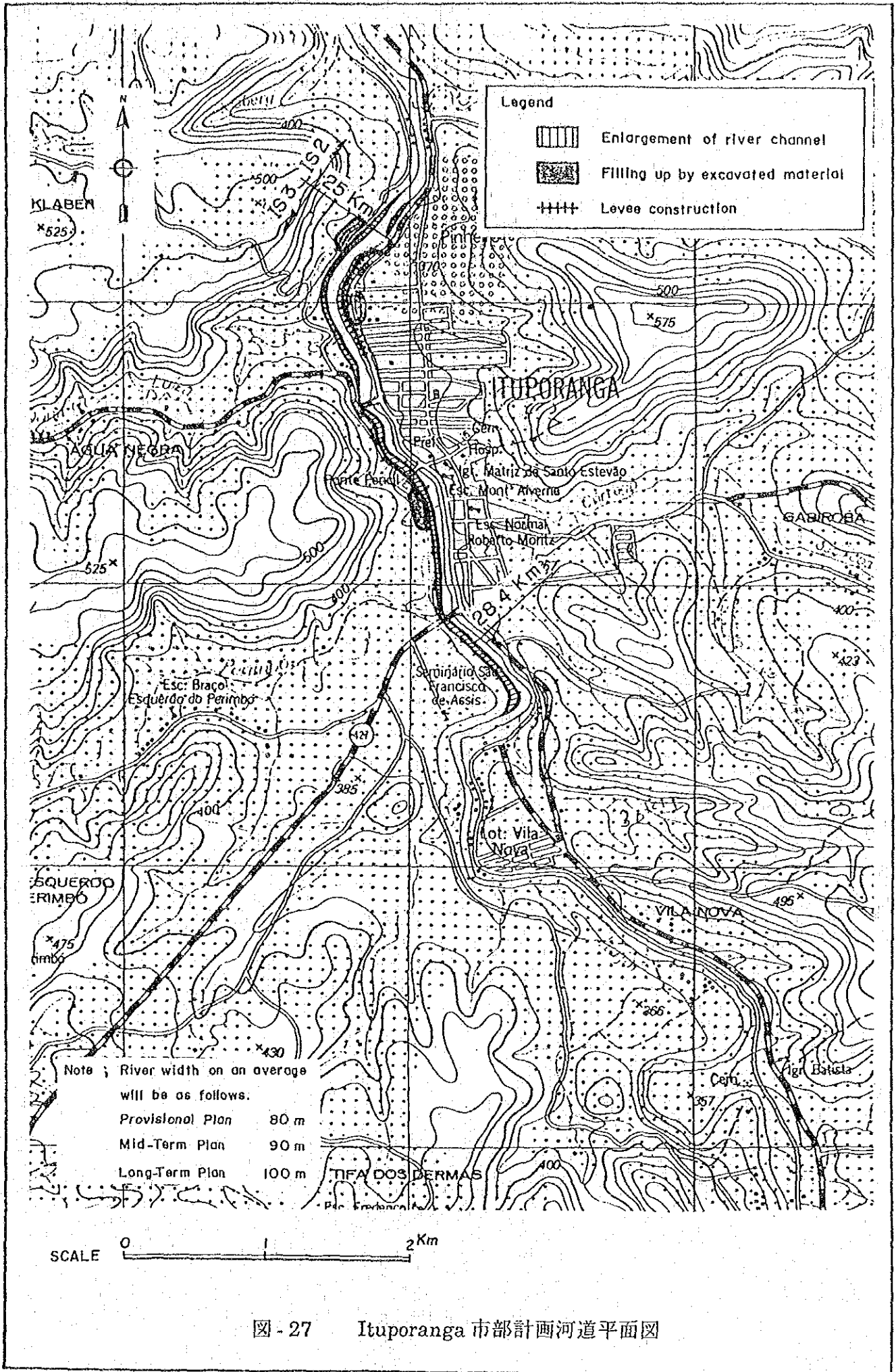


图 - 27 Ituporanga 市部計画河道平面图



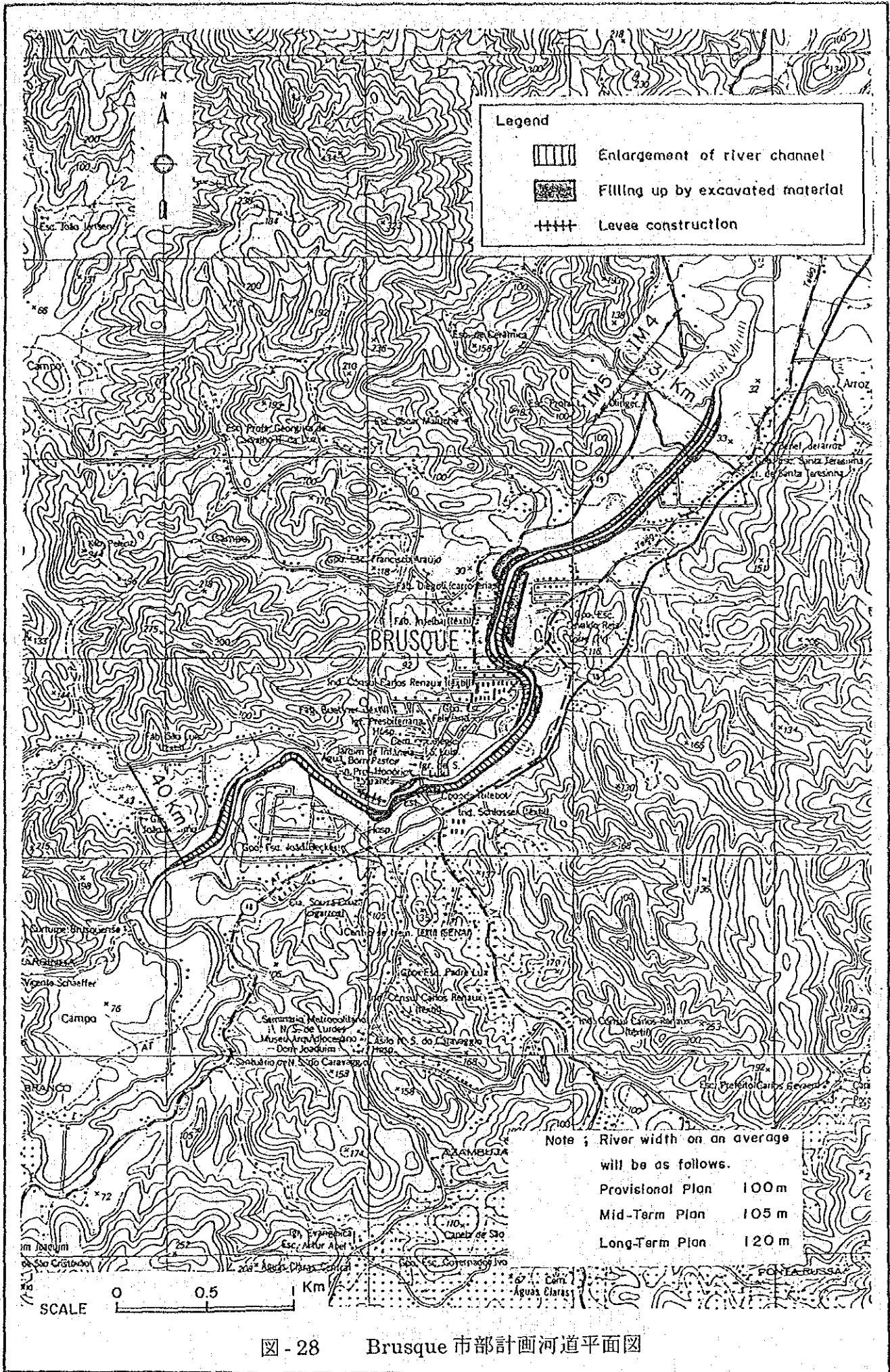


图 - 28 Brusque 市部計画河道平面图



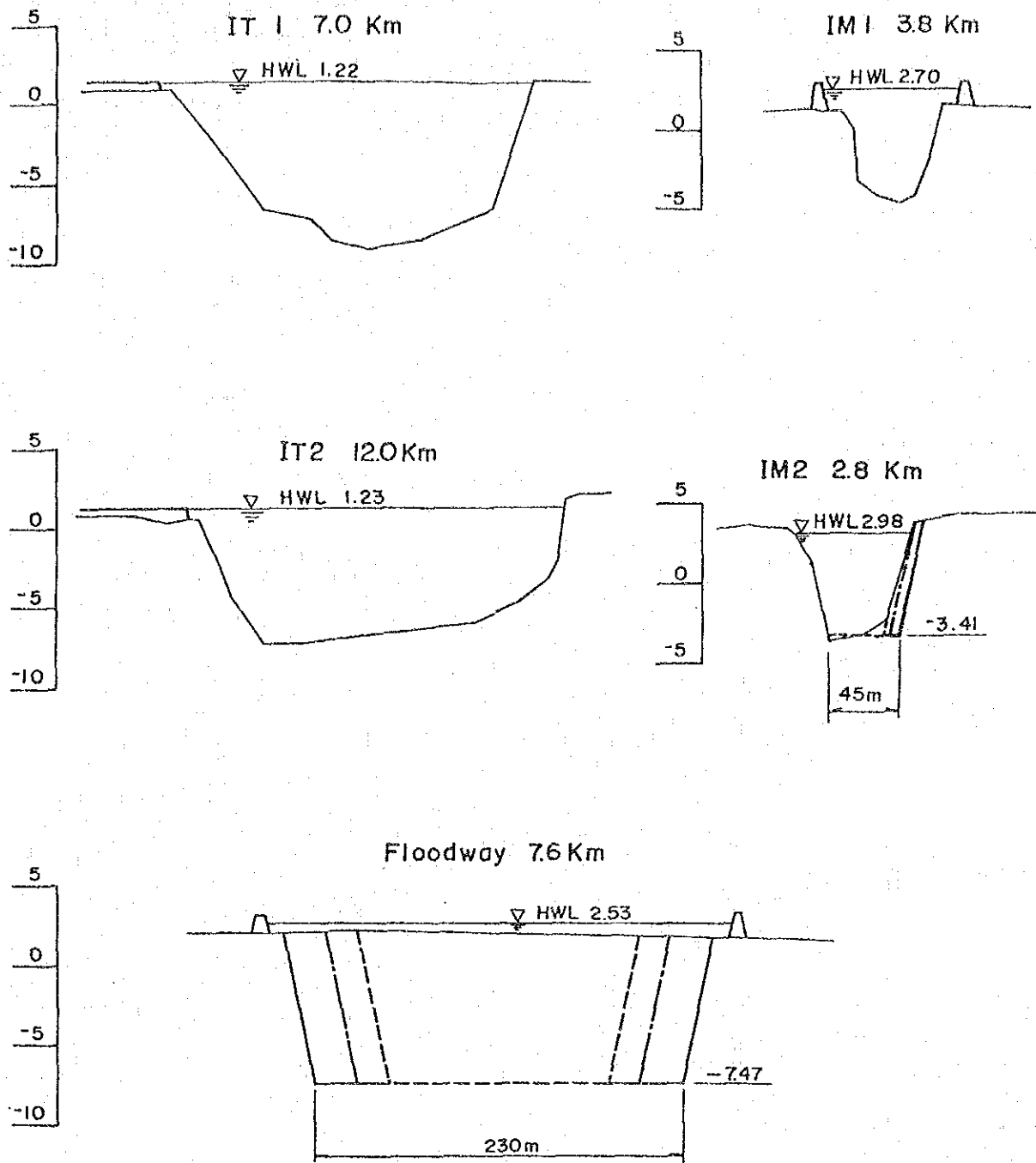
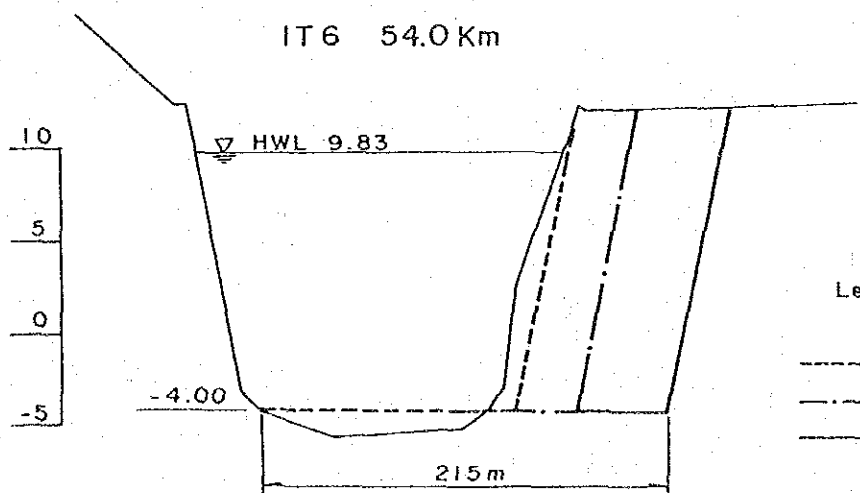
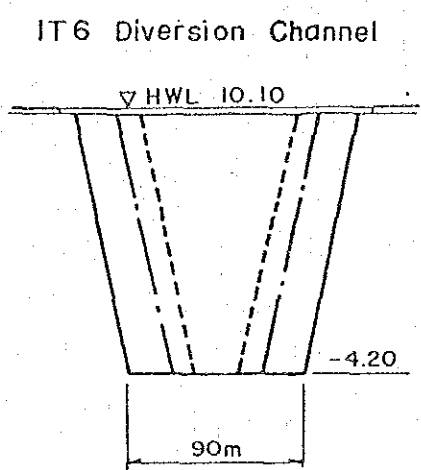
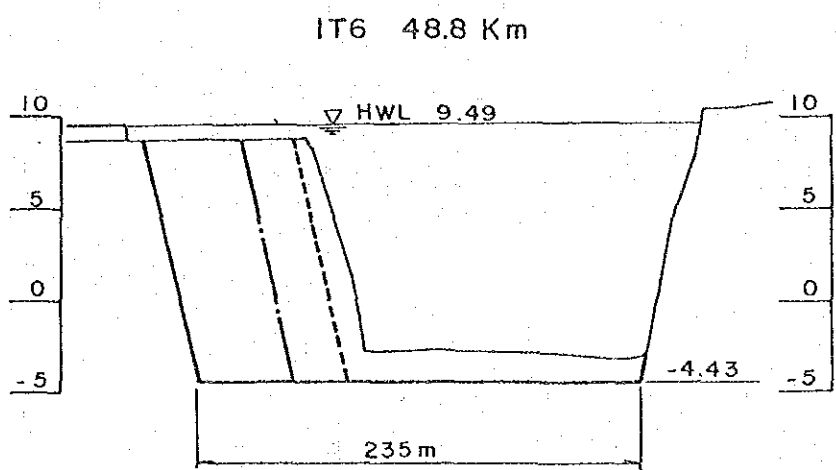
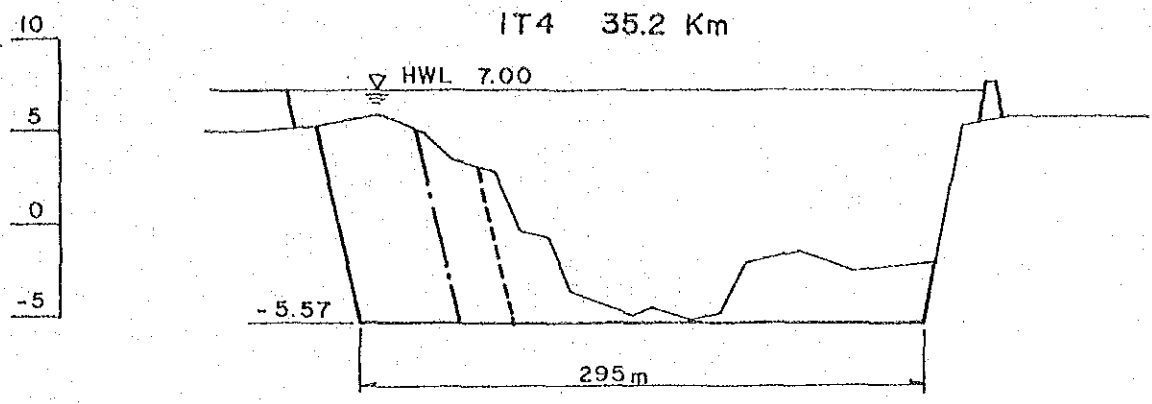


图 - 29 計画河道標準横断面图 (1/4)





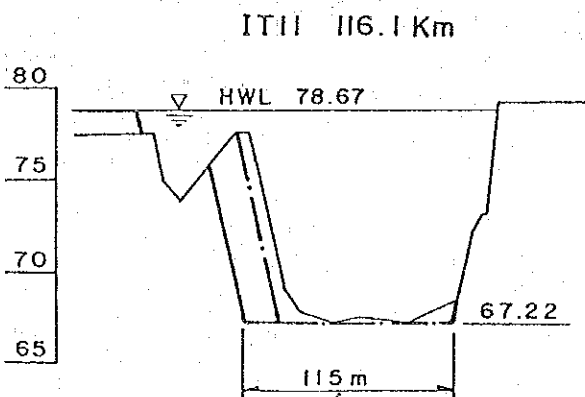
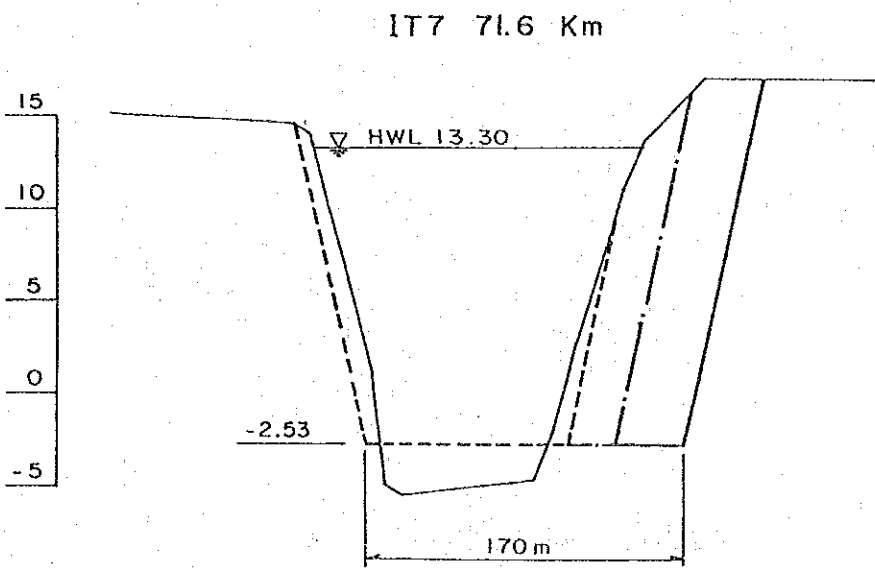
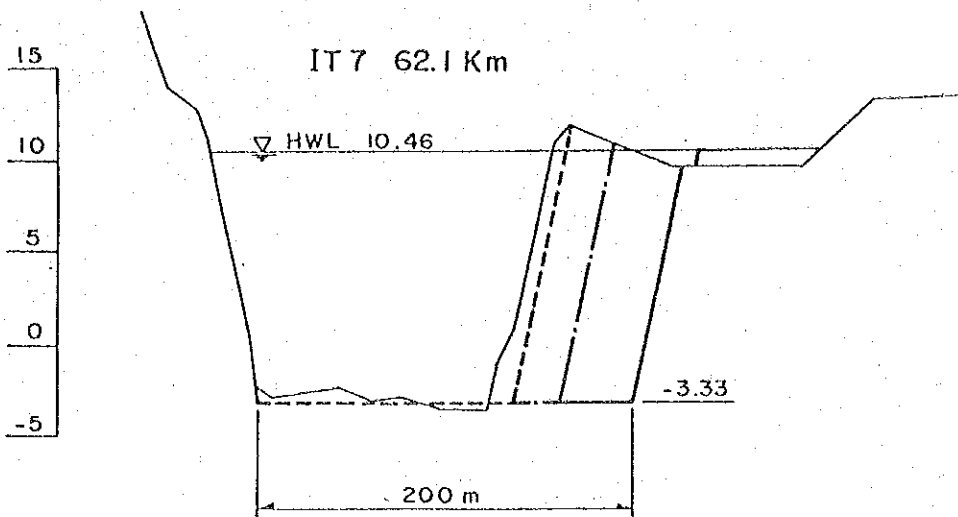


- Legend
- Provisional Plan
  - · - · - Mid-Term Plan
  - Long-Term Plan

Note: HWL means design high water level for Long-Term Plan.

圖 - 29 計畫河道標準橫断面圖 (2/4)





Legend

- Provisional Plan
- Mid-Term Plan
- Long-Term Plan

Note; HWL means design high water level for Long-Term Plan.

図 - 29 計画河道標準横断面図 (3/4)



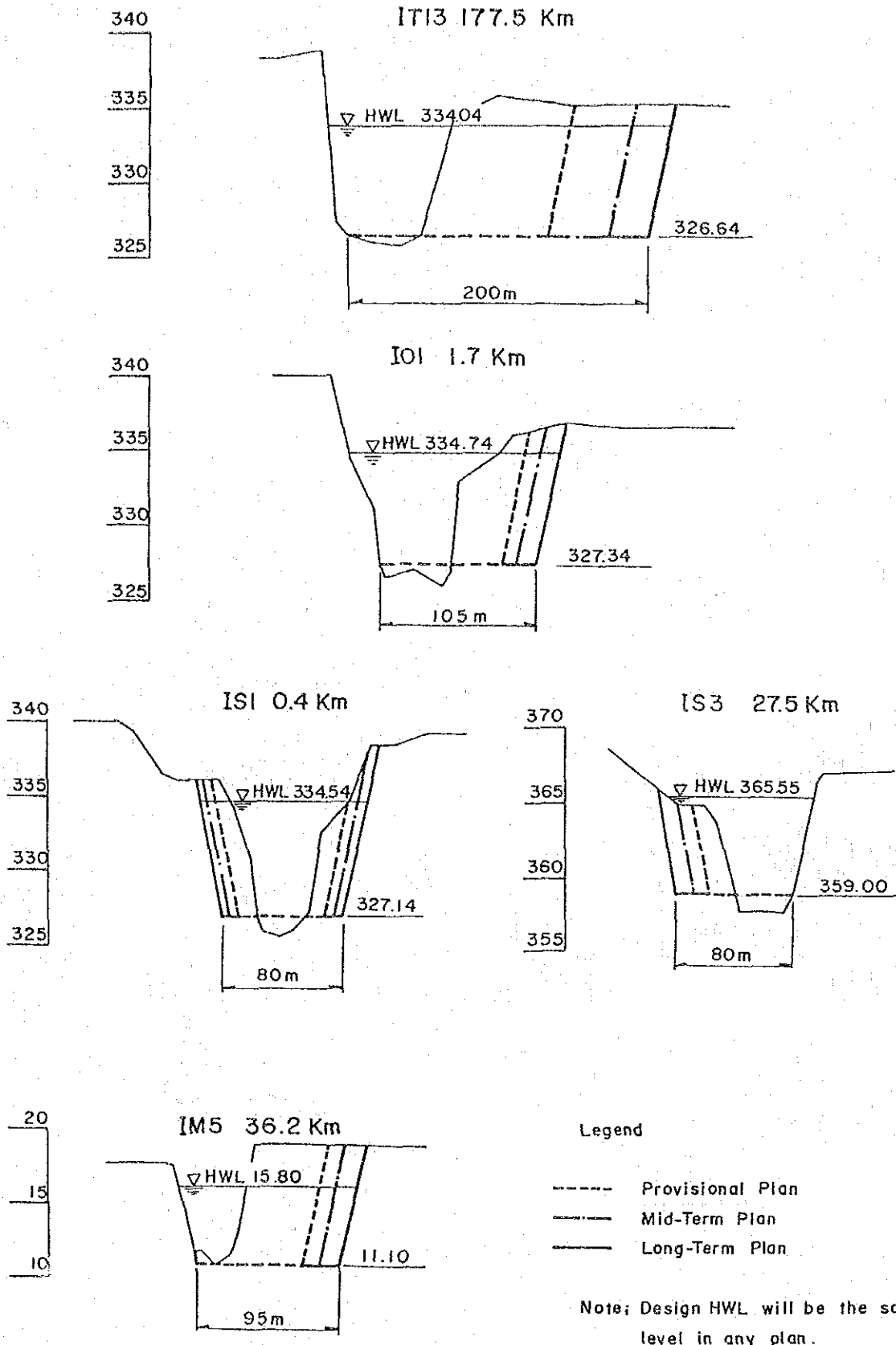
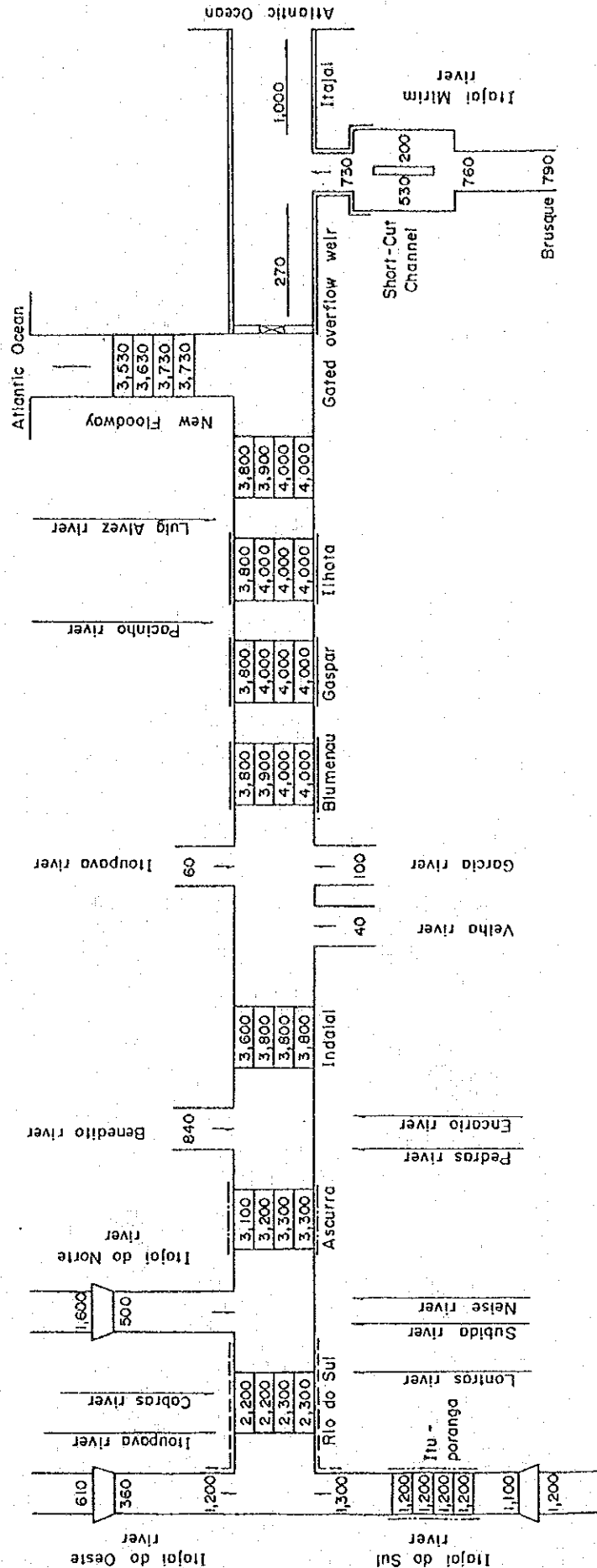


图 - 29 計画河道標準横断面図 (4 / 4)



Legend

- ==== Alternative 1 (River improvement works at Blumenau - Gaspar, Ilhota, Itajai and Brusque)
- ==== Alternative 2 (River improvement works at Rio do Sul in addition to the Al. 1)
- ==== Alternative 3 (River improvement works at Ascurra in addition to the Al. 2)
- ==== Alternative 4 (River improvement works at Ituporanga in addition to the Al. 3)







Legend

====	Alternative 1 (River improvement works at Blumenau-Gaspar, Ilhota, Itajaí and Brusque)
=====	Alternative 2 (River improvement works at Rio do Sul in addition to the A1.1)
=====	Alternative 3 (River improvement works at Ascurra in addition to the A1.2)
=====	Alternative 4 (River improvement works at Ituporanga in addition to the A1.3)

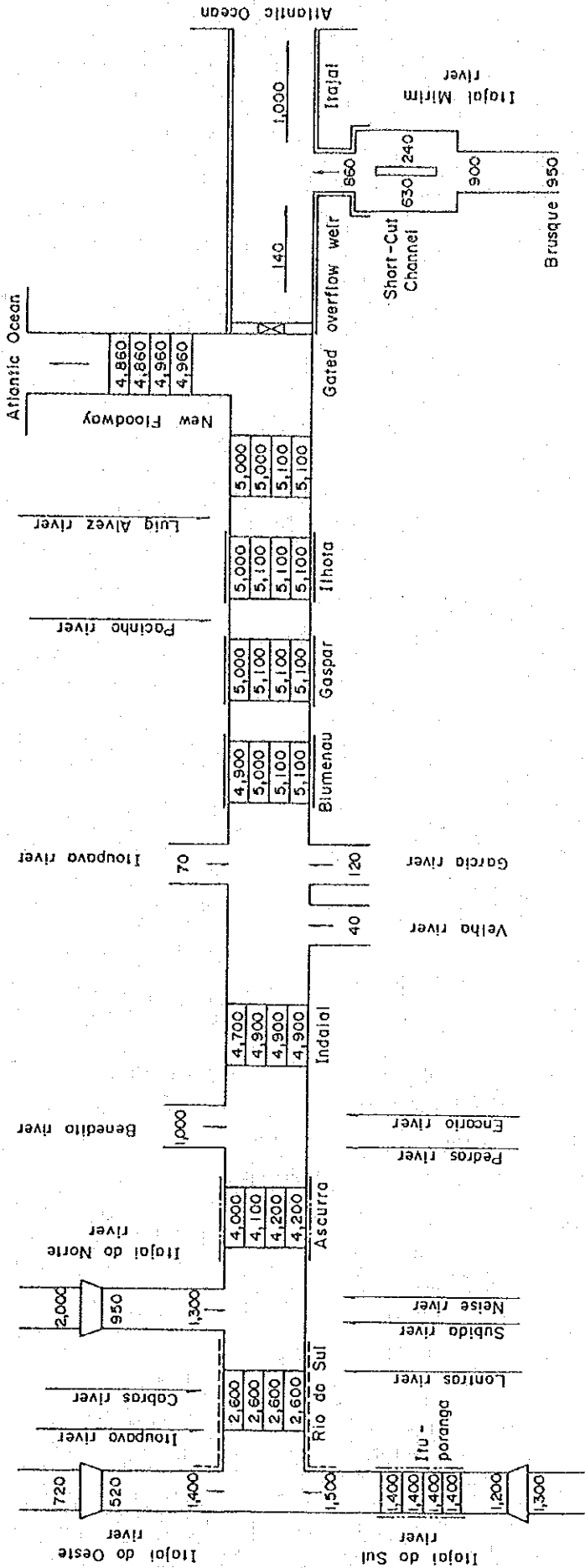
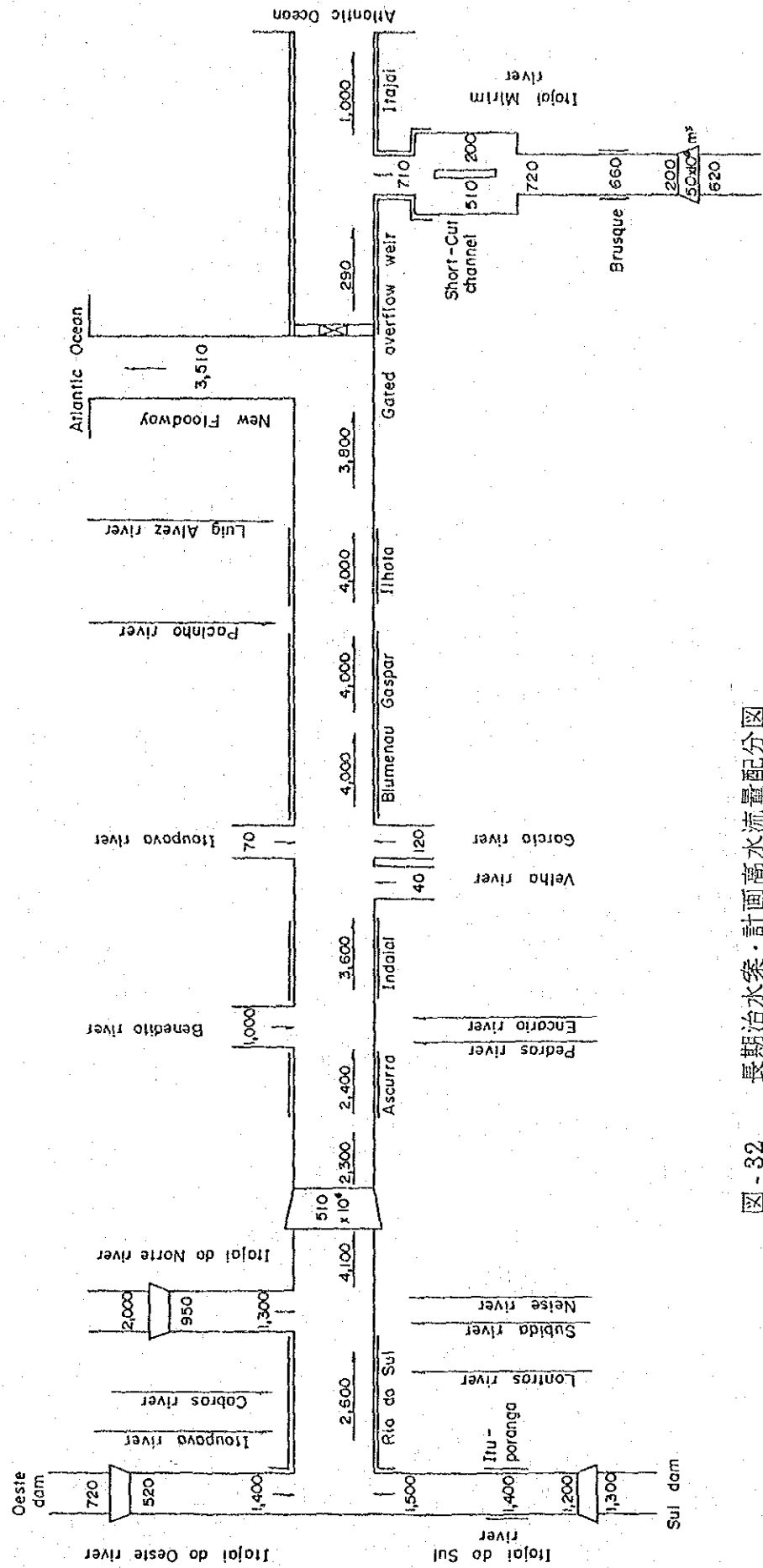


图-31 长期治水案・計画高水流量配分图  
(河川改修方式、確率年 1/50)



Legend

=====  
River improvement stretch



Mirim dam

図 - 32 長期治水案・計画高水流量配分図  
(河川改修およびAscurraダムの組み合わせ方式、確率年1/50)



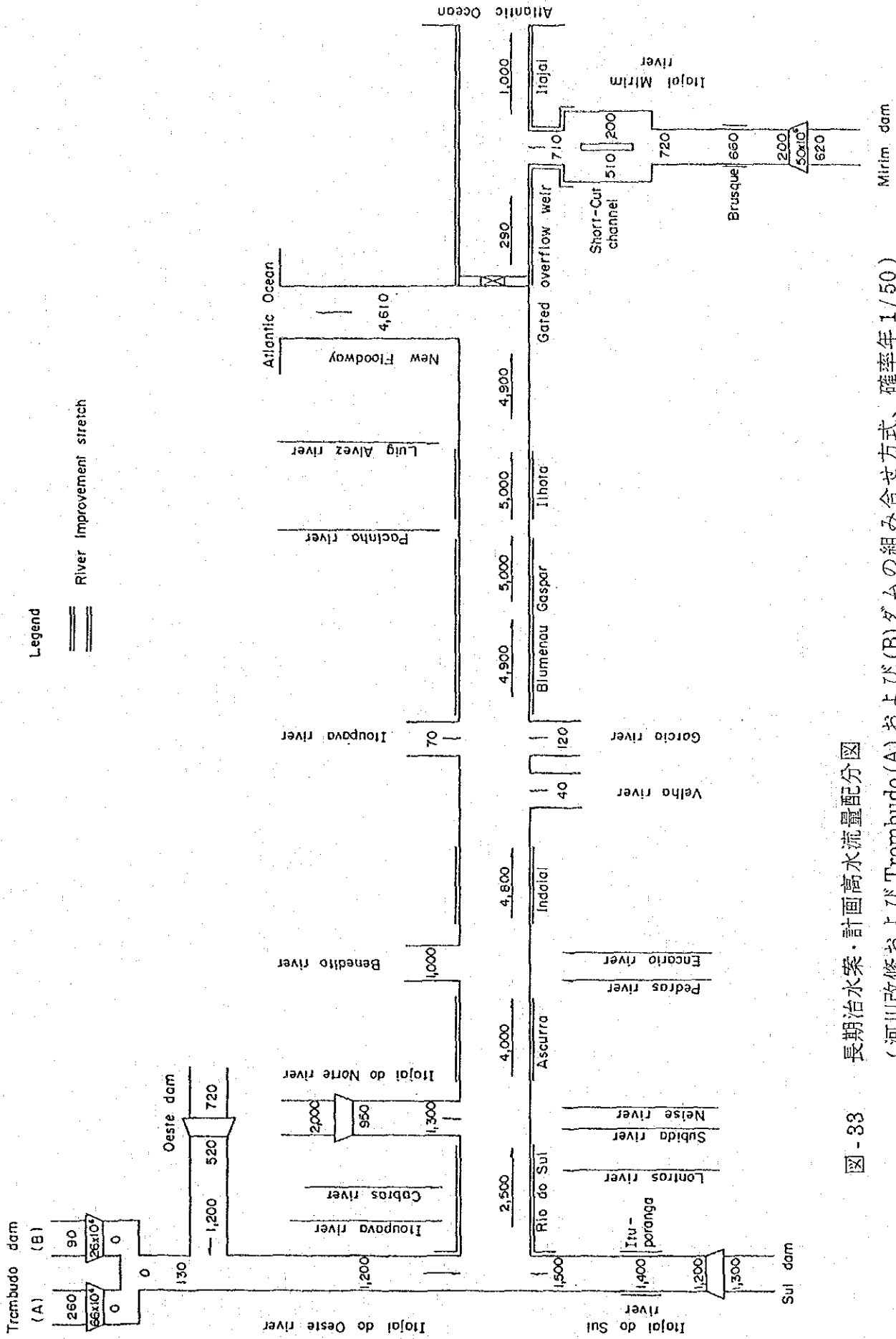


図-33 長期治水案・計画高水流量配分図

(河川改修およびTrombudo(A)および(B)ダムの組み合わせ方式、確率年1/50)

図-34 治水プロジェクト実施計画

Project	Const. Cost (10 <sup>6</sup> Cz \$)	87	88	89	90	91	92	93	94	95	96	97	98	99	2000	2001	2002	2003	2004	2005
<u>Provisonal Plan</u>																				
River improvement																				
Blumenau- Gaspar stretch	501		FN		T.C.															
Floodway and downstream of Itajai Mirim	737			FN		T.C.														
Rio do Sul-Lontras and Ituporanga stretches	879		FN		T.C.															
Brusque stretch	105			FN		T.C.														
Sub total	2,222																			
<u>Mid-Term Plan</u>																				
River improvement																				
Blumenau- Gaspar stretch	261							FN	T.C.											
Floodway and downstream of Itajai Milim	119									FN	T.C.									
Rio do Sul-Lontras and Ituporanga stretches	378									FN	T.C.									
Brusque stretch	13										FN	T.C.								
Sub total	771																			
<u>Long - Term Plan</u>																				
River improvement																				
Blumenau- Gaspar stretch	391												FN	T.C.						
Floodway and downstream of Itajai Mirim	197																FN	T.C.		
Rio do Sul- Lontras and Ituporanga stretches	283																FN	T.C.		
Brusque stretches	22																FN	T.C.		
Ilhota stretch	237													FN			T.C.			
Ascurra stretch	95														FN			T.C.		
Sub total	1,225																			
Total	4,218																			

Note:  Feasibility study  Detailed design  Construction  
 FN ; Financing T.C. ; Tendering and Contract



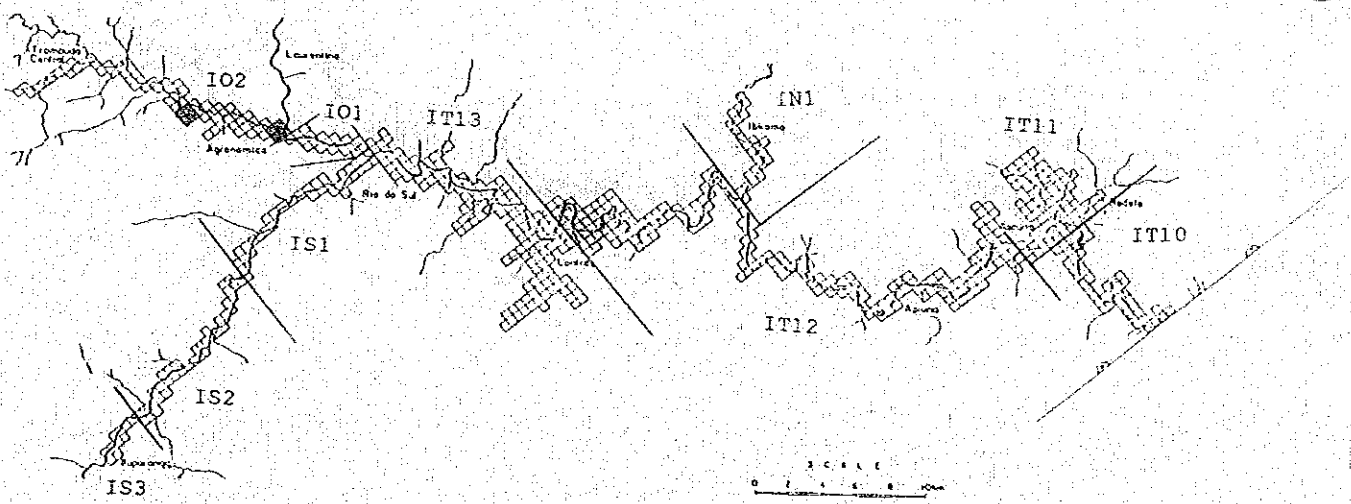
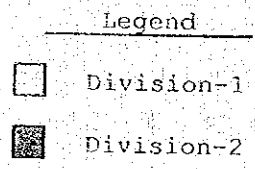
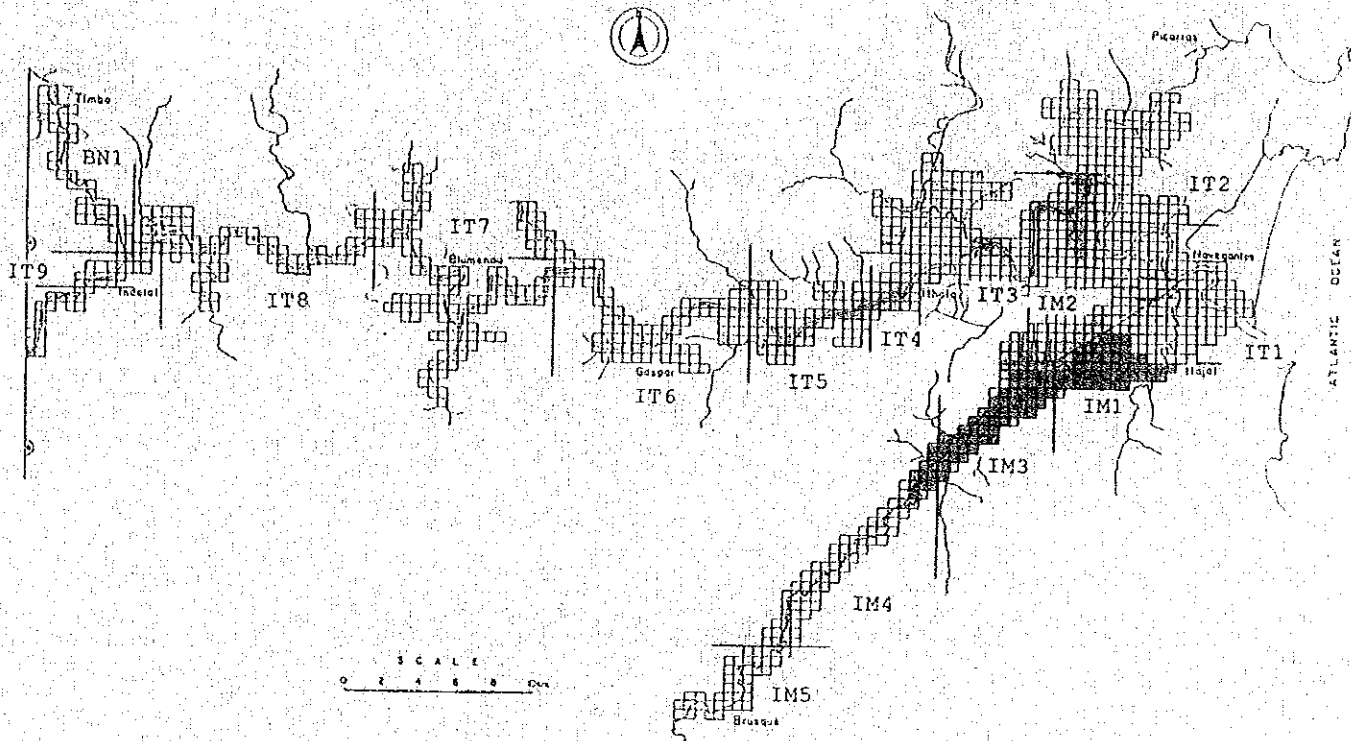


図 - 35 浸水深による土地区分図



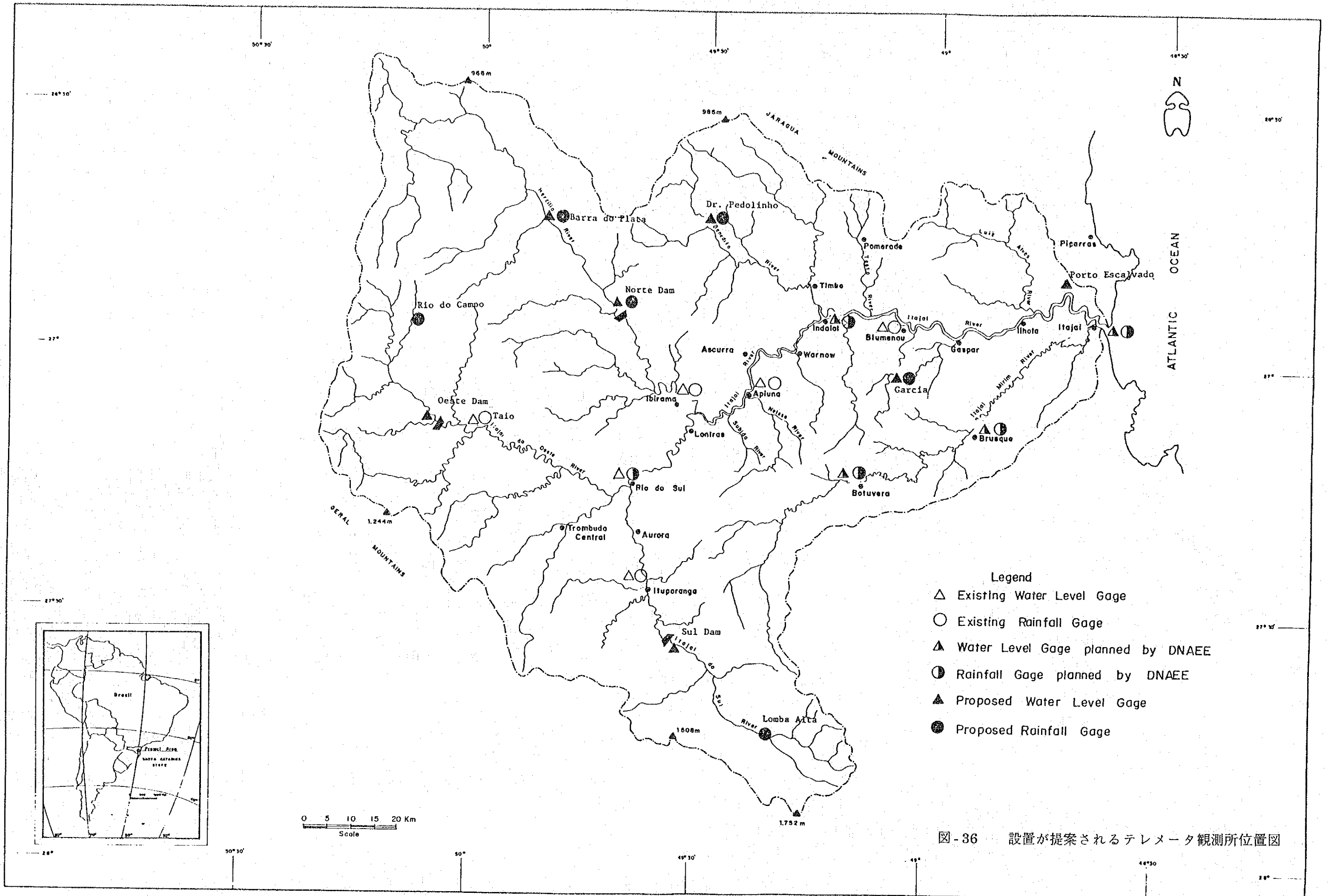


図-36 設置が提案されるテレメータ観測所位置図

張公

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