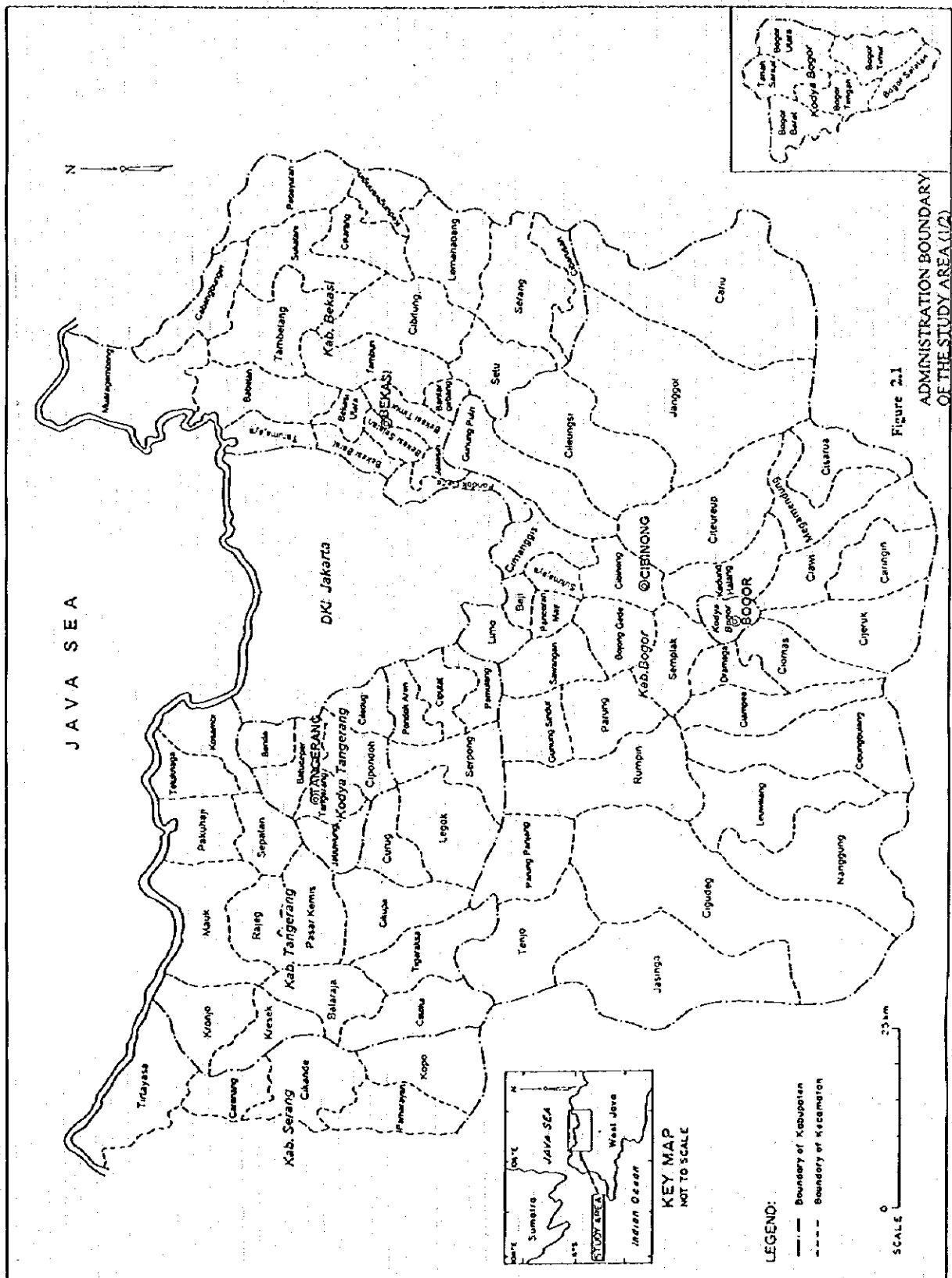
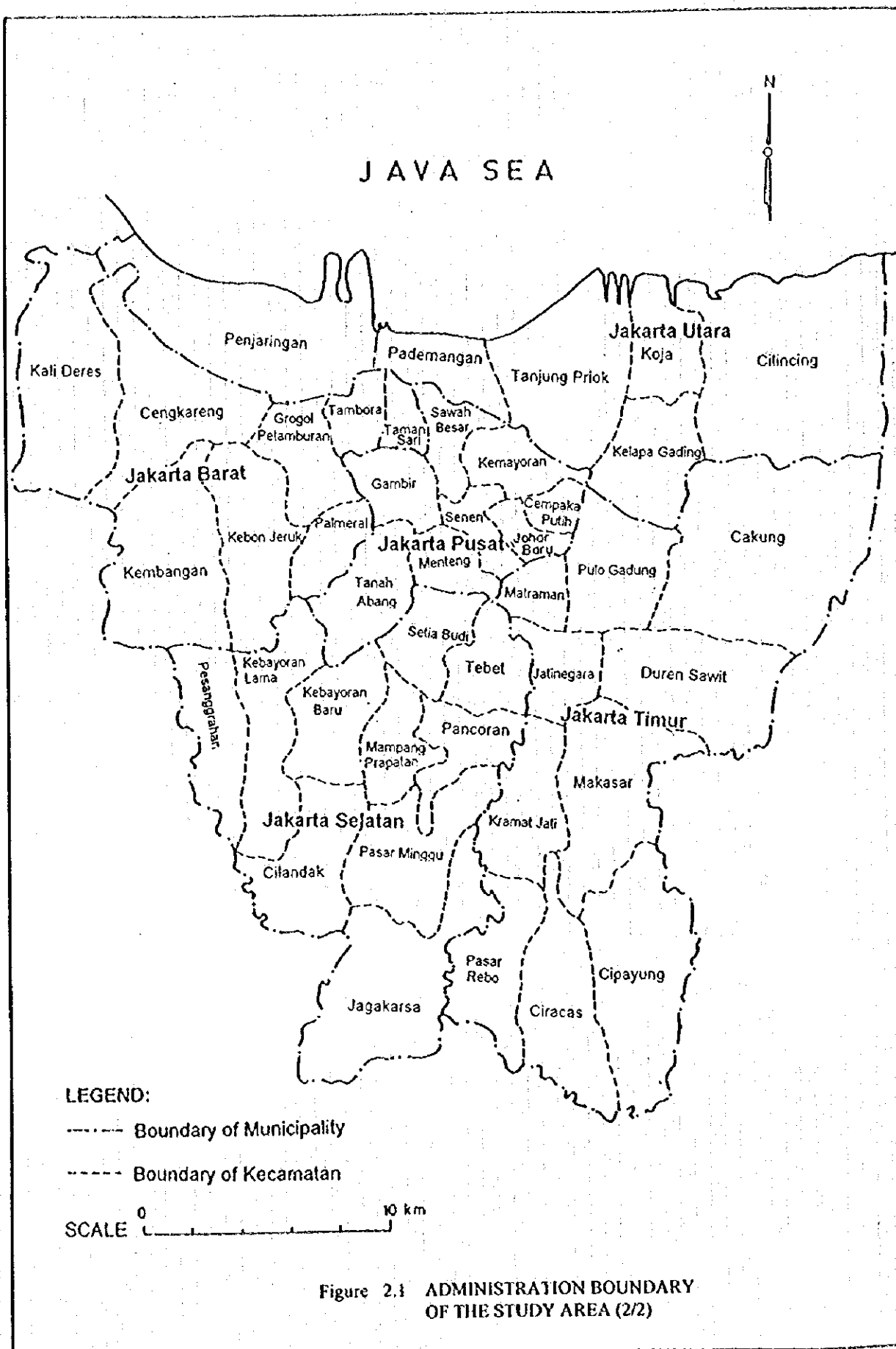
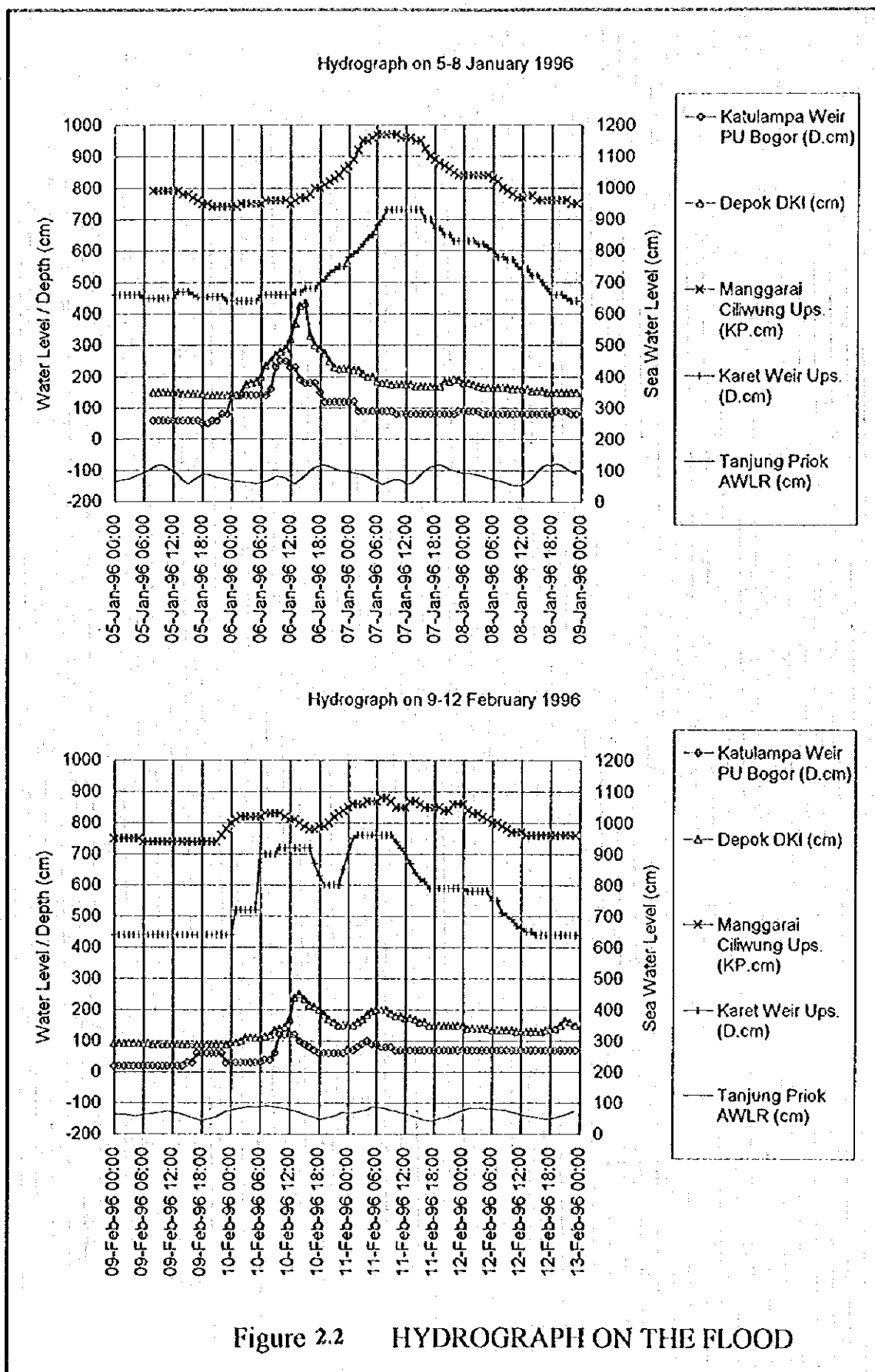
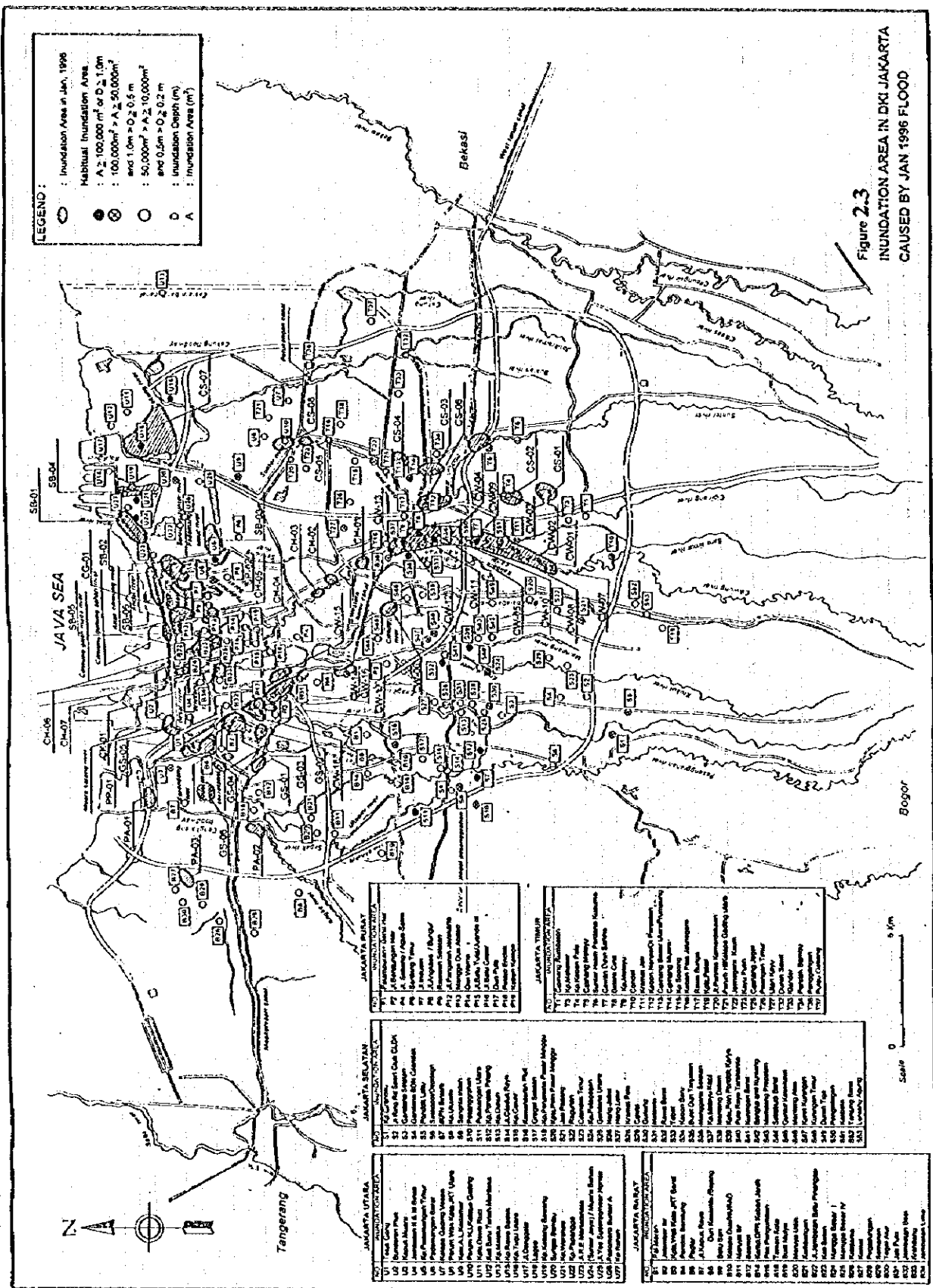


Figures









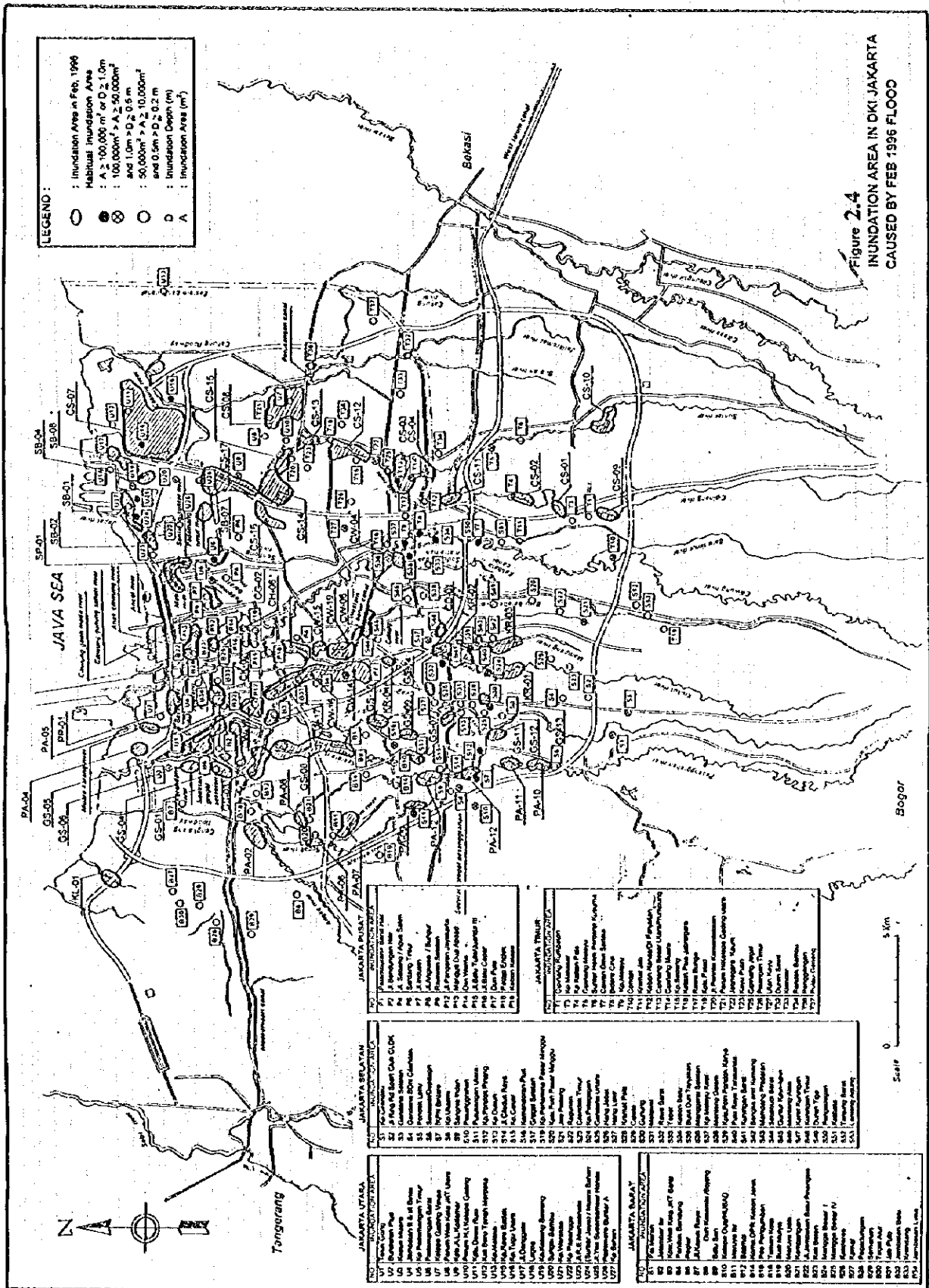


Figure 2.4
INUNDATION AREA IN DKI JAKARTA
CAUSED BY FEB 1996 FLOOD

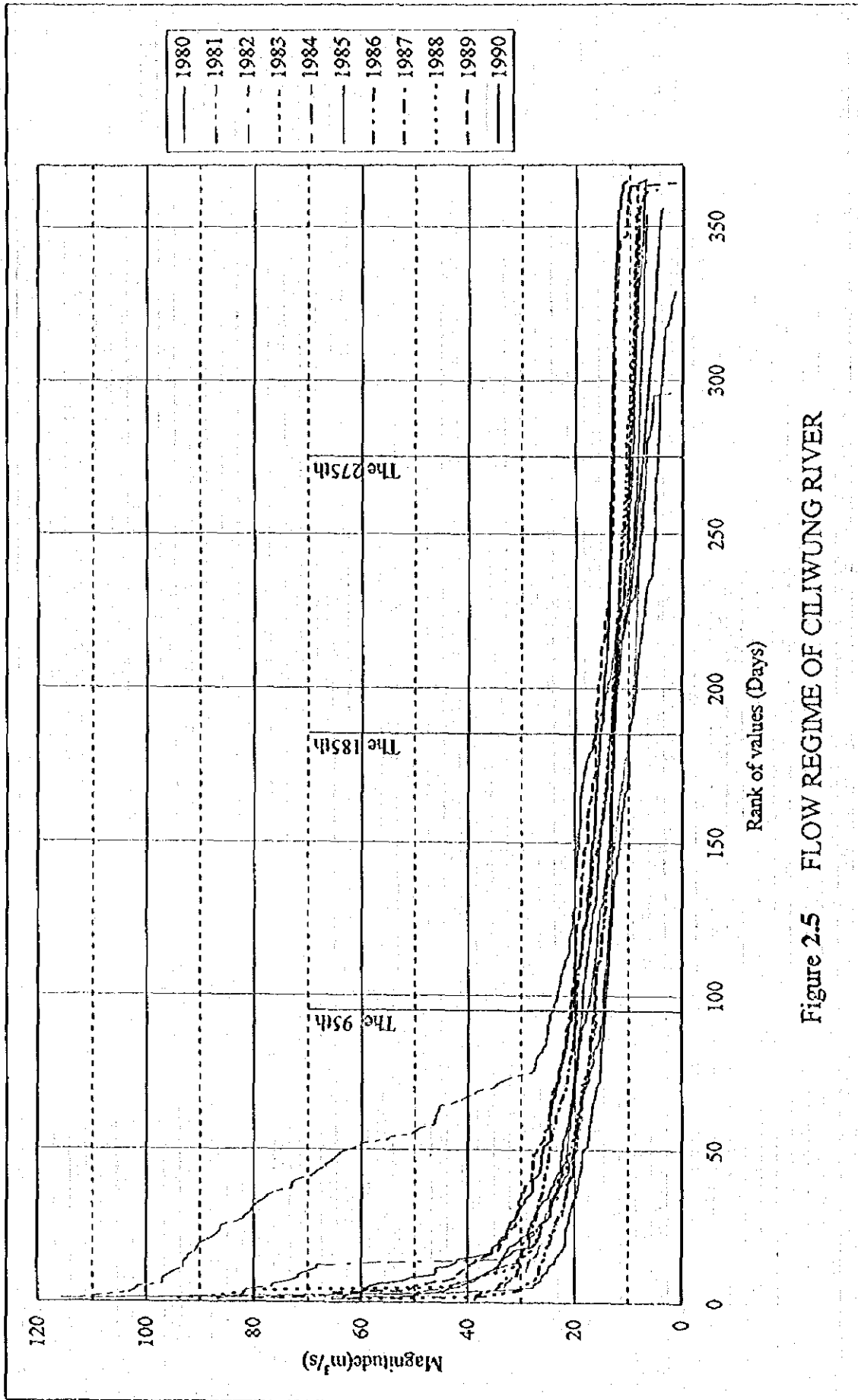


Figure 2.5 FLOW REGIME OF CILIWUNG RIVER

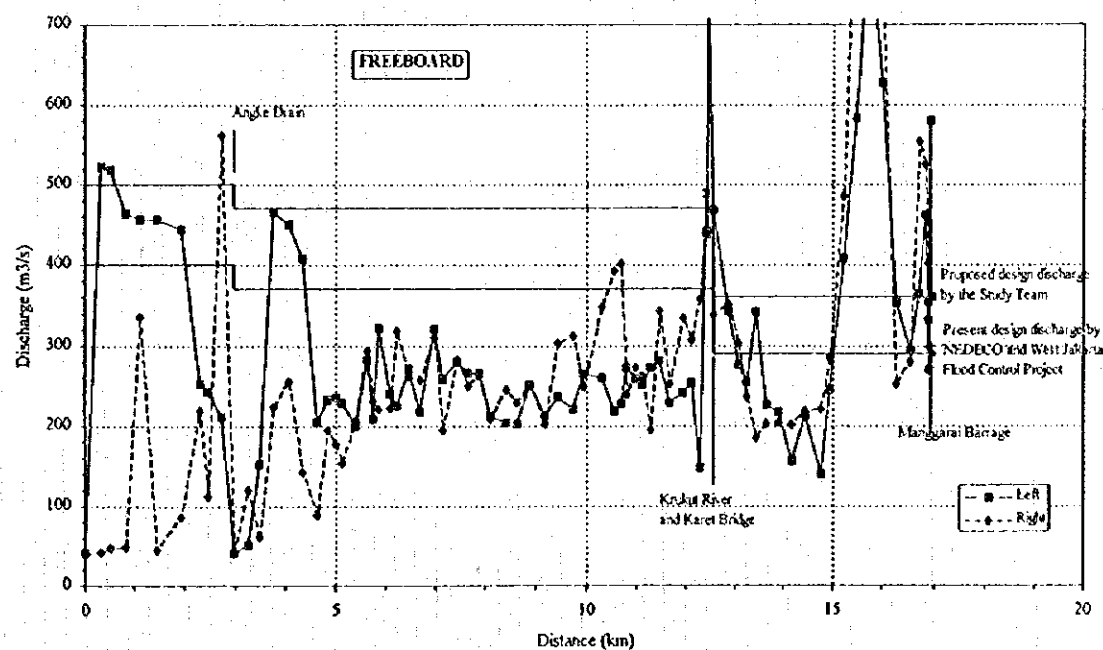
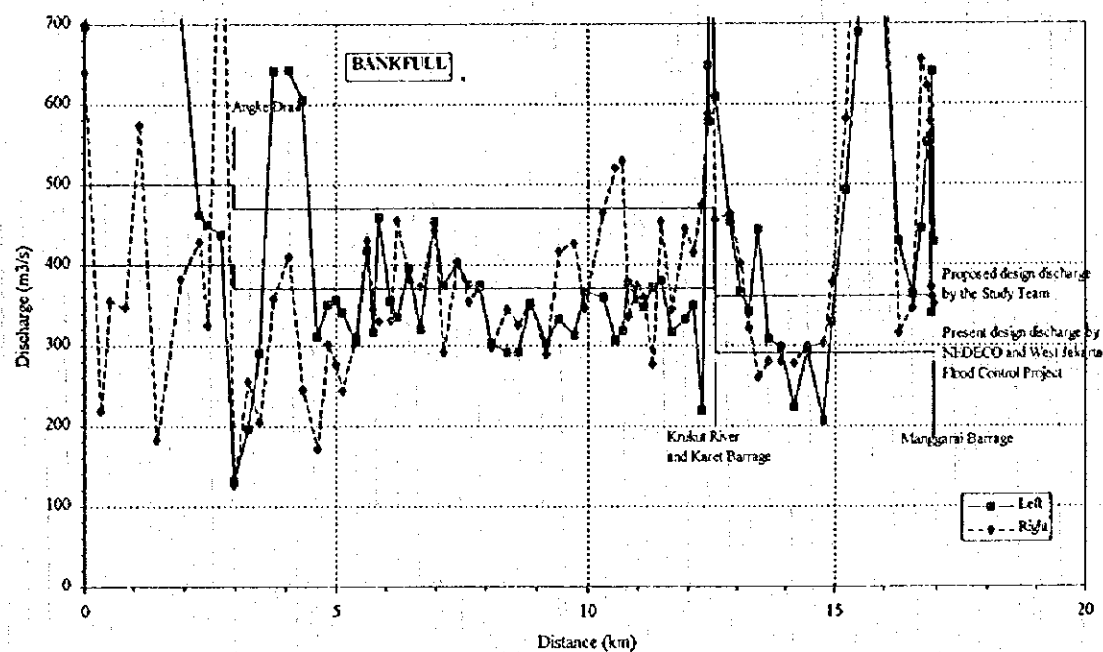


Figure 2.6 PRESENT CARRYING CAPACITY OF WBC (1/2)

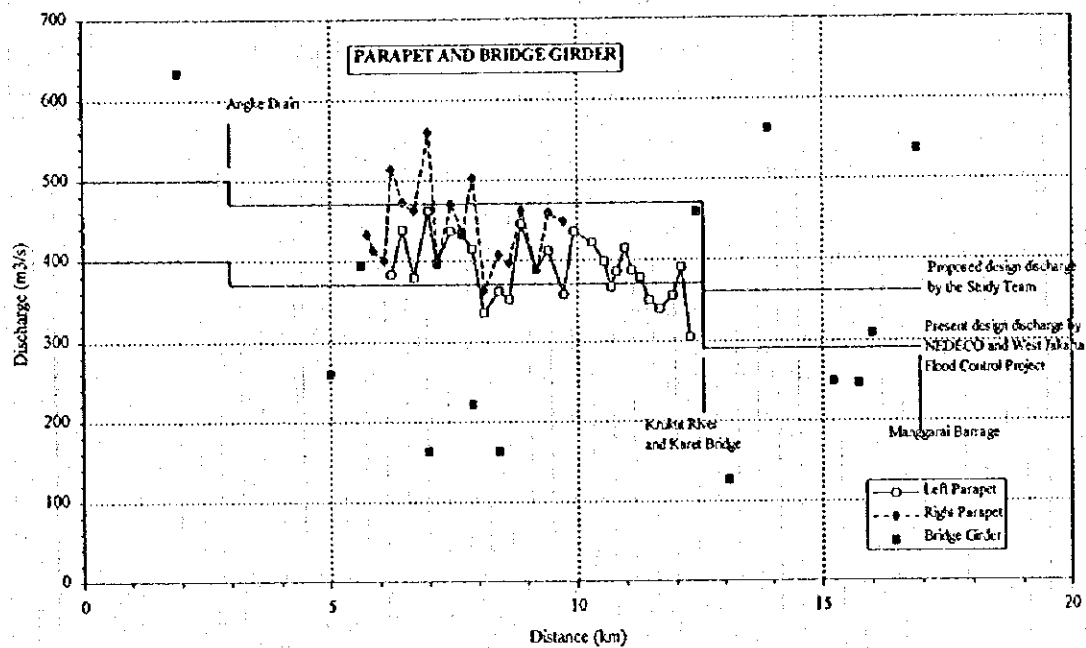


Figure 2.6 PRESENT CARRYING CAPACITY OF WBC (2/2)

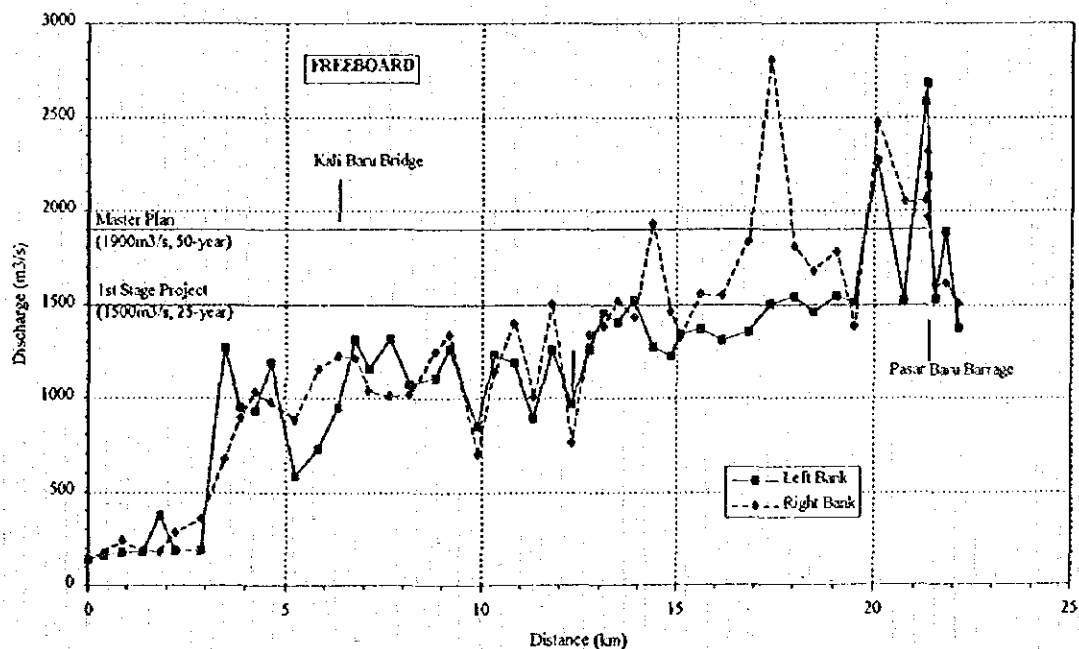
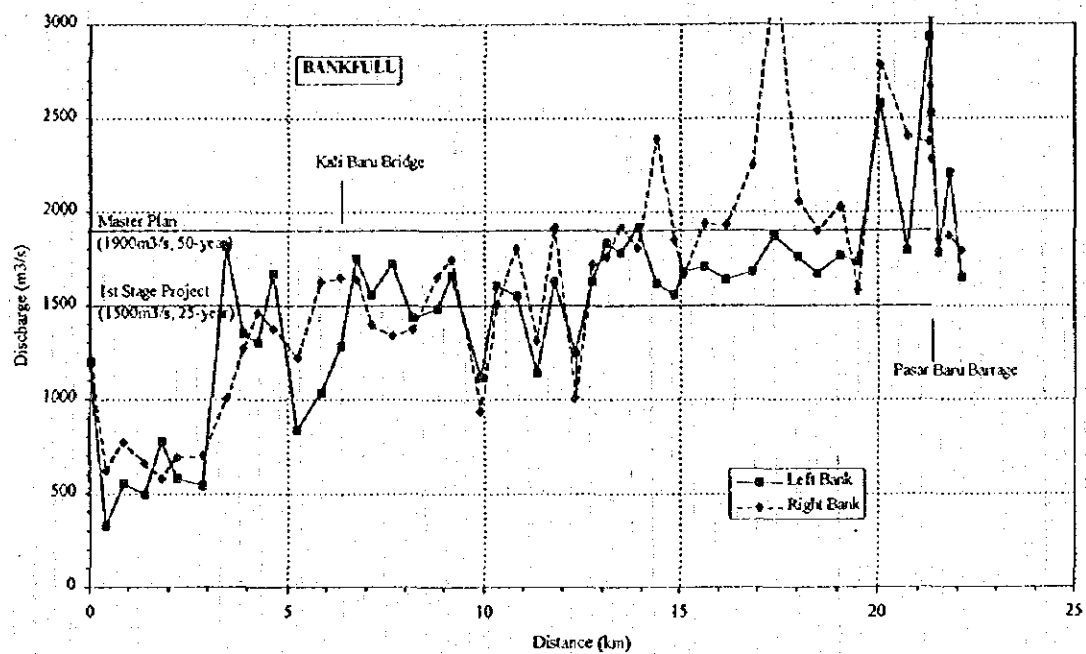


Figure 2.7 PRESENT CARRYING CAPACITY OF CISADANE RIVER

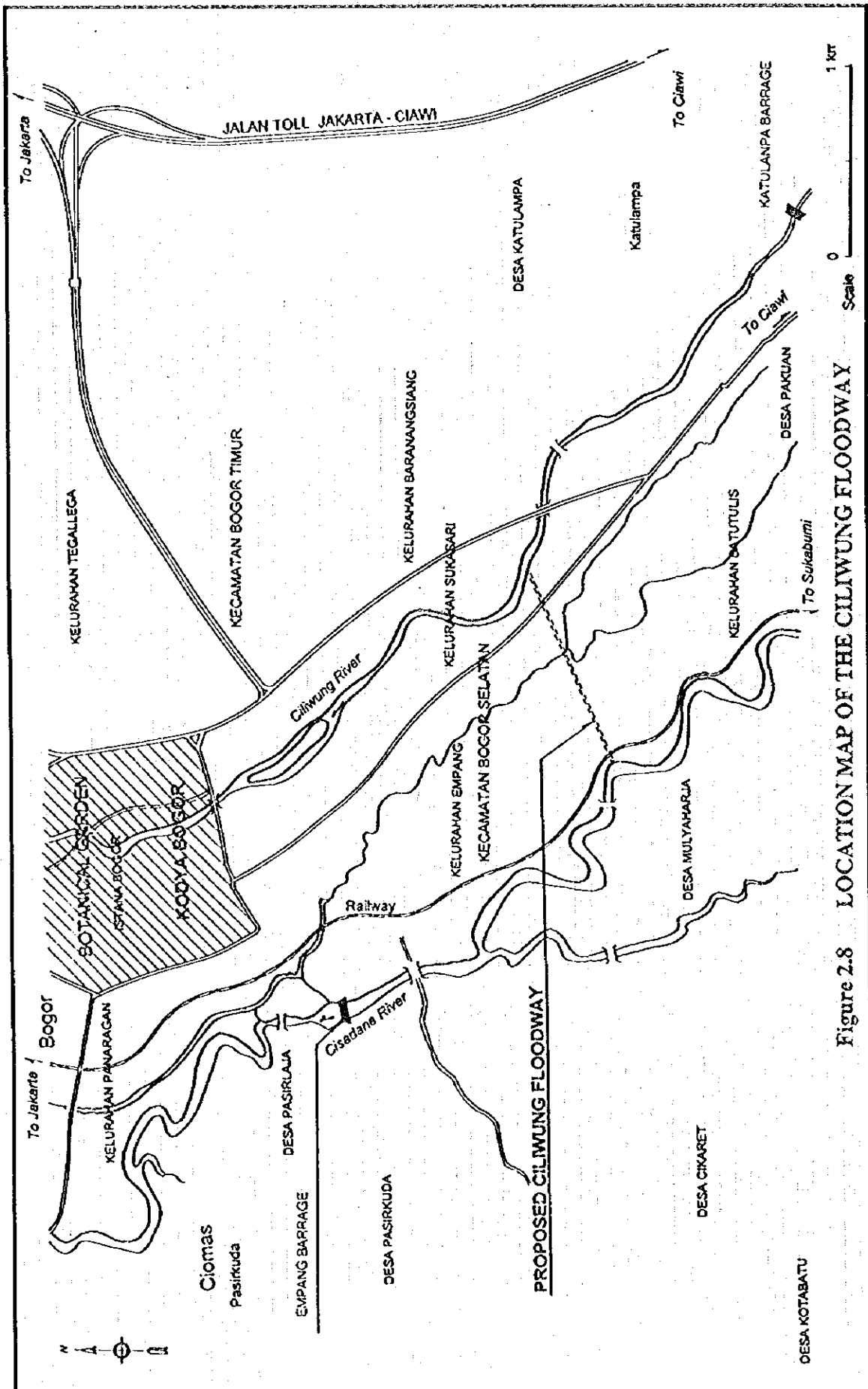
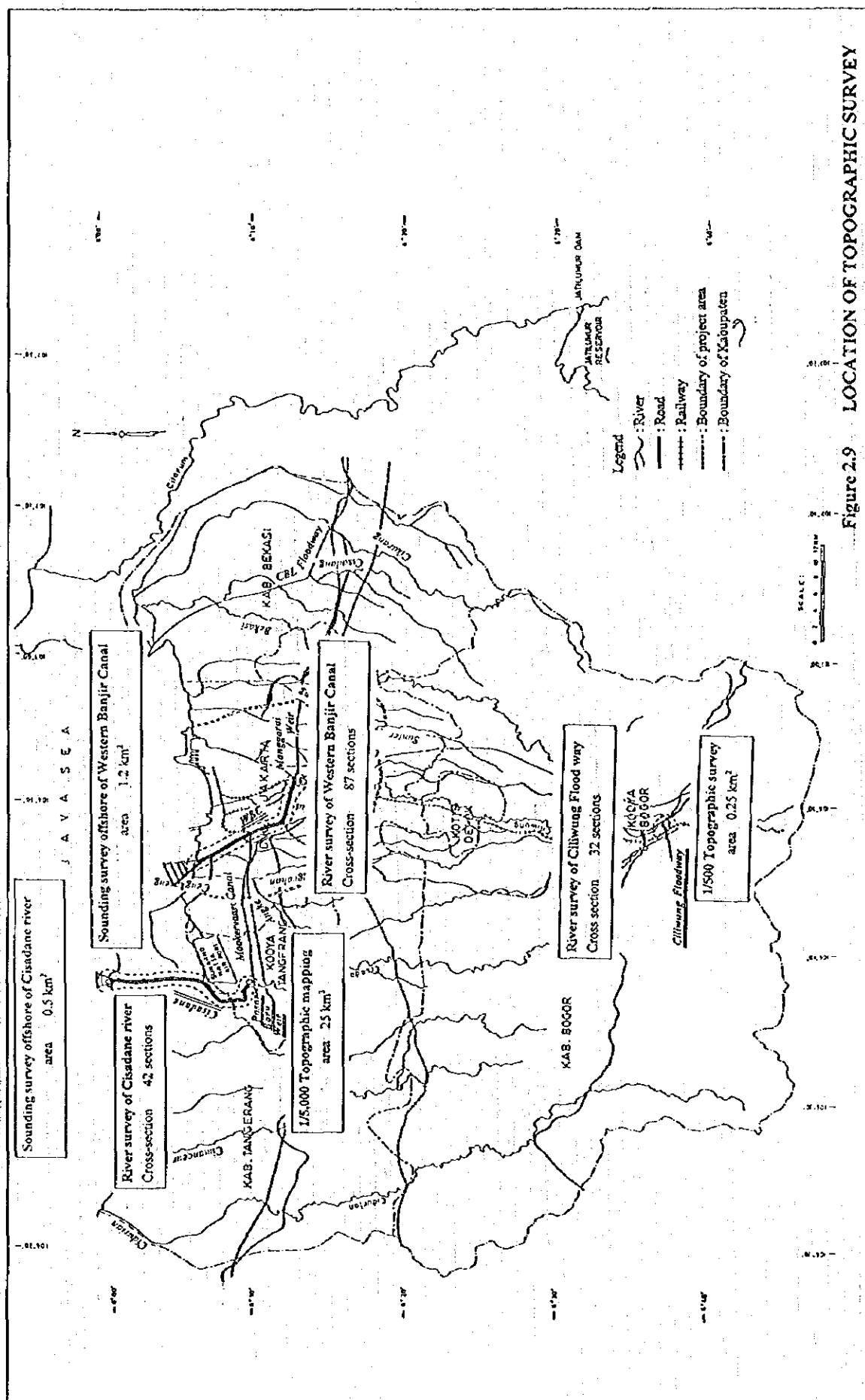
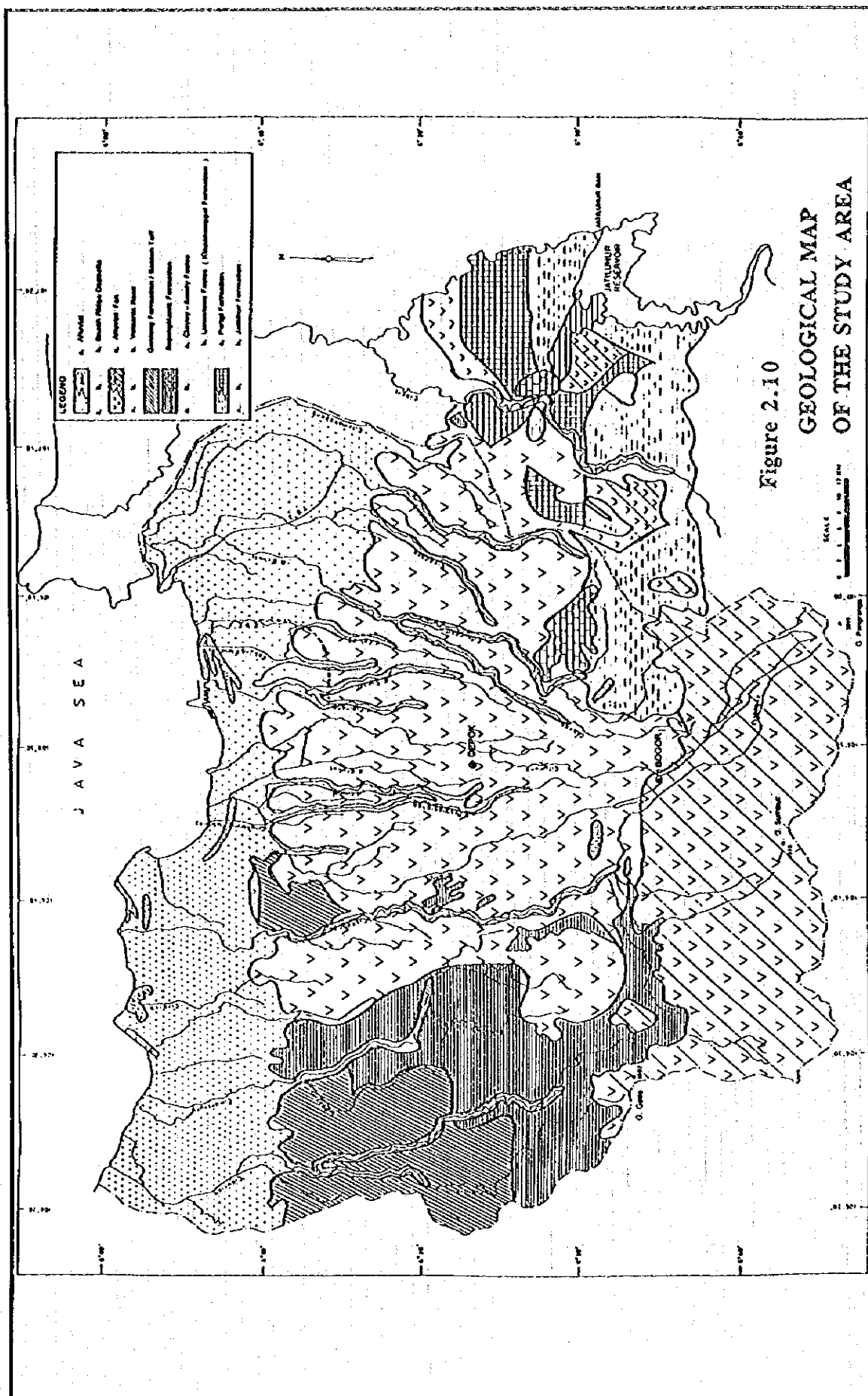


Figure 2.8 LOCATION MAP OF THE CILIWUNG FLOODWAY





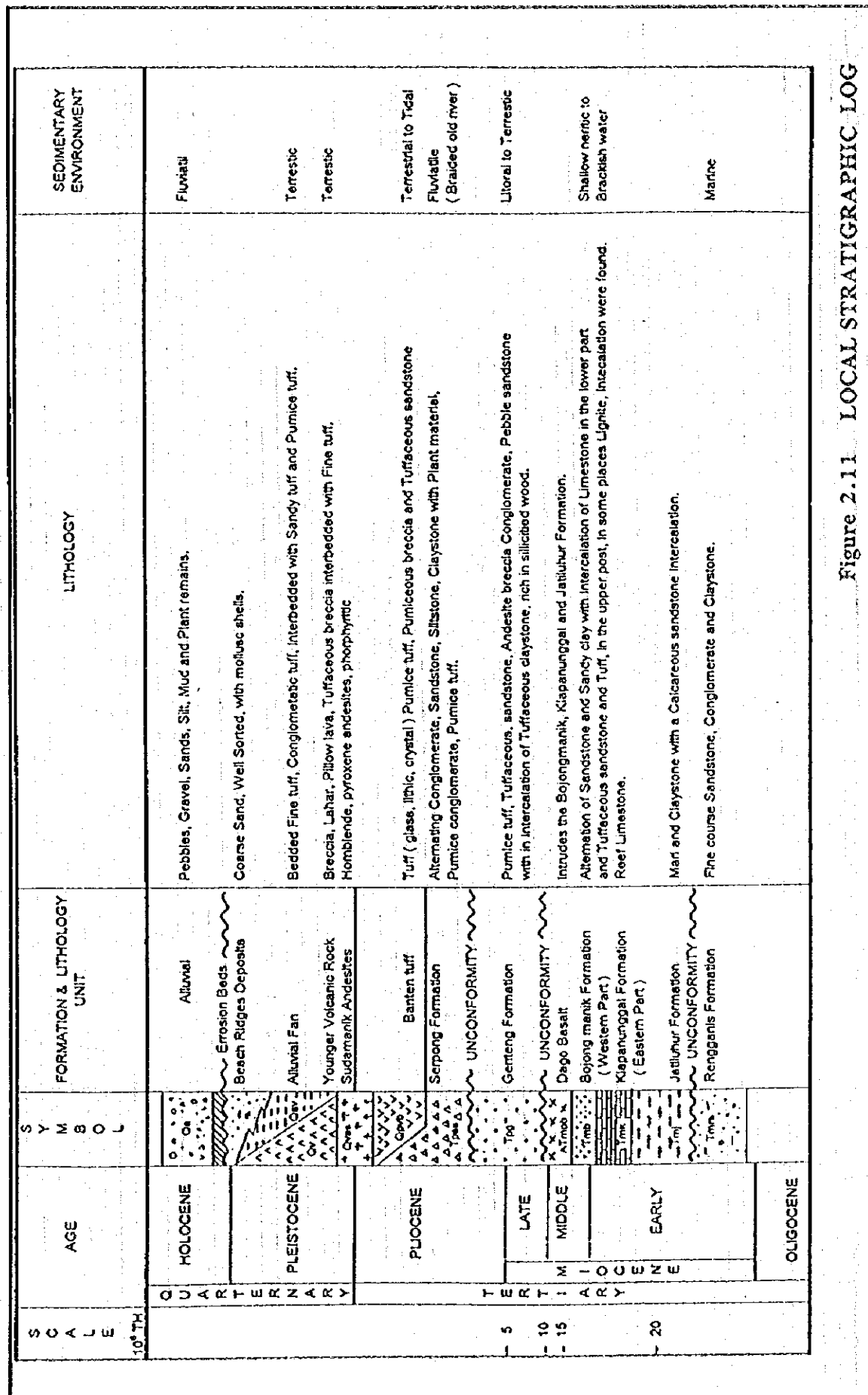


Figure 2.11 LOCAL STRATIGRAPHIC LOG

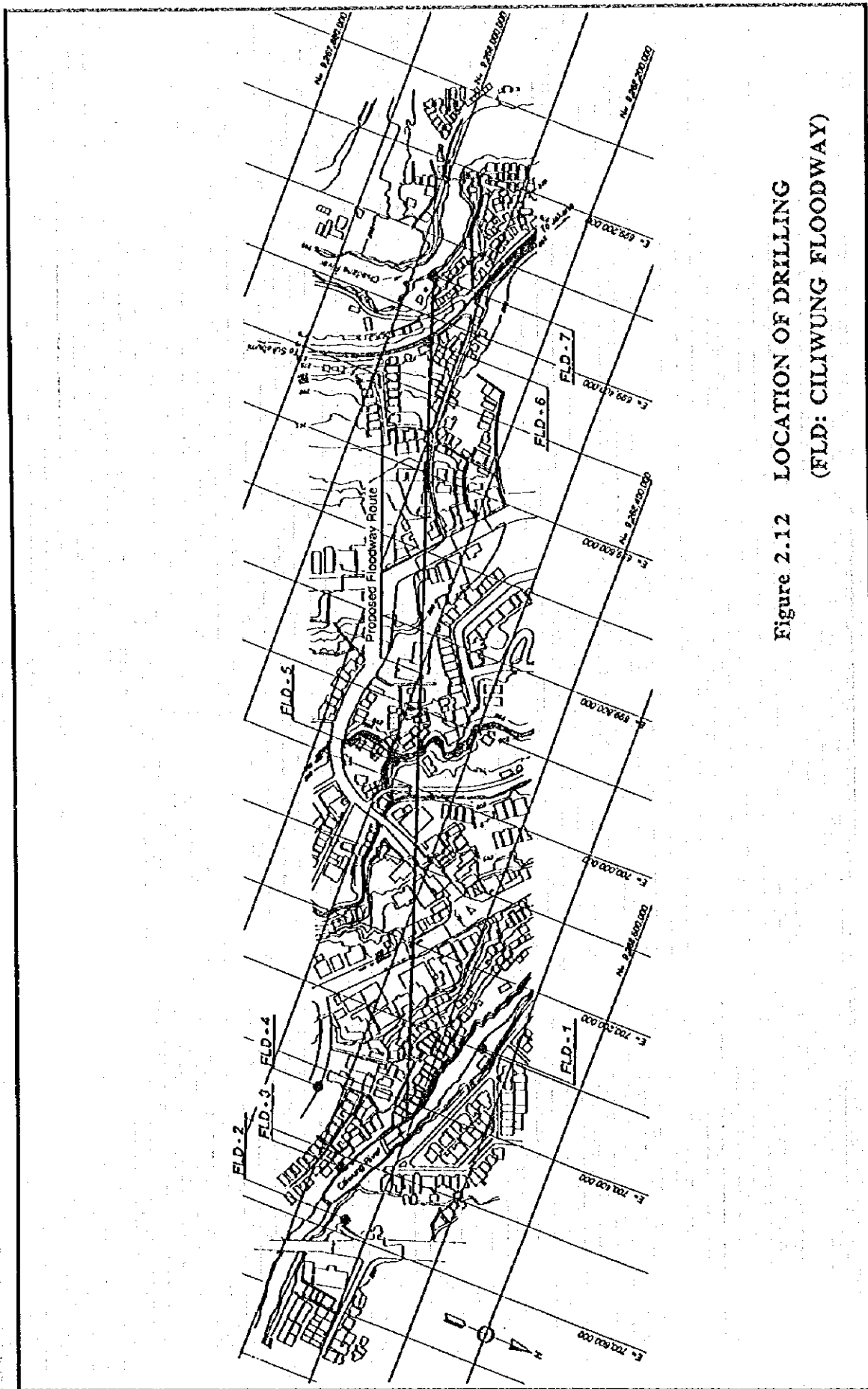
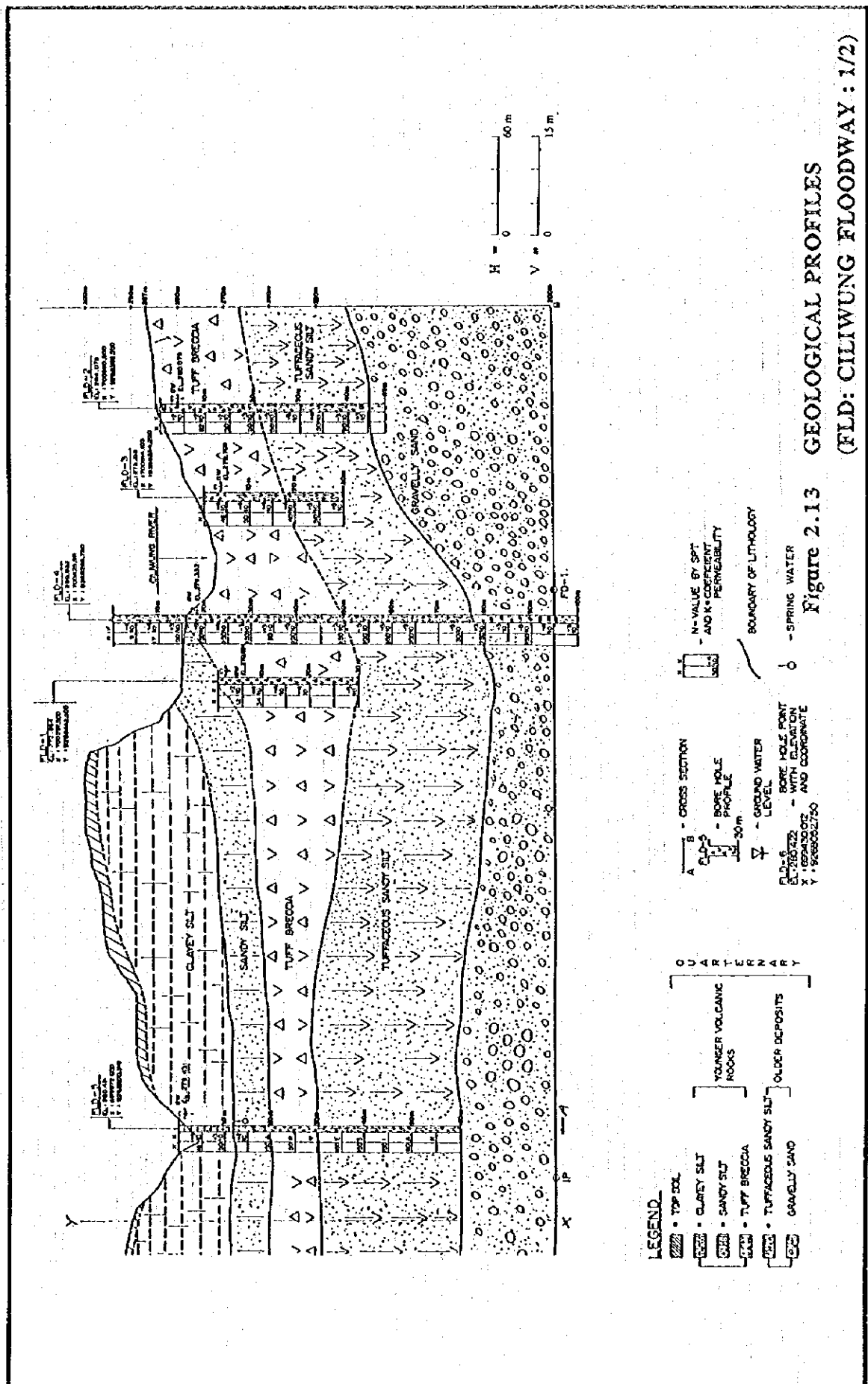
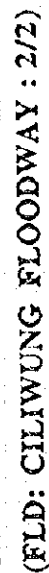
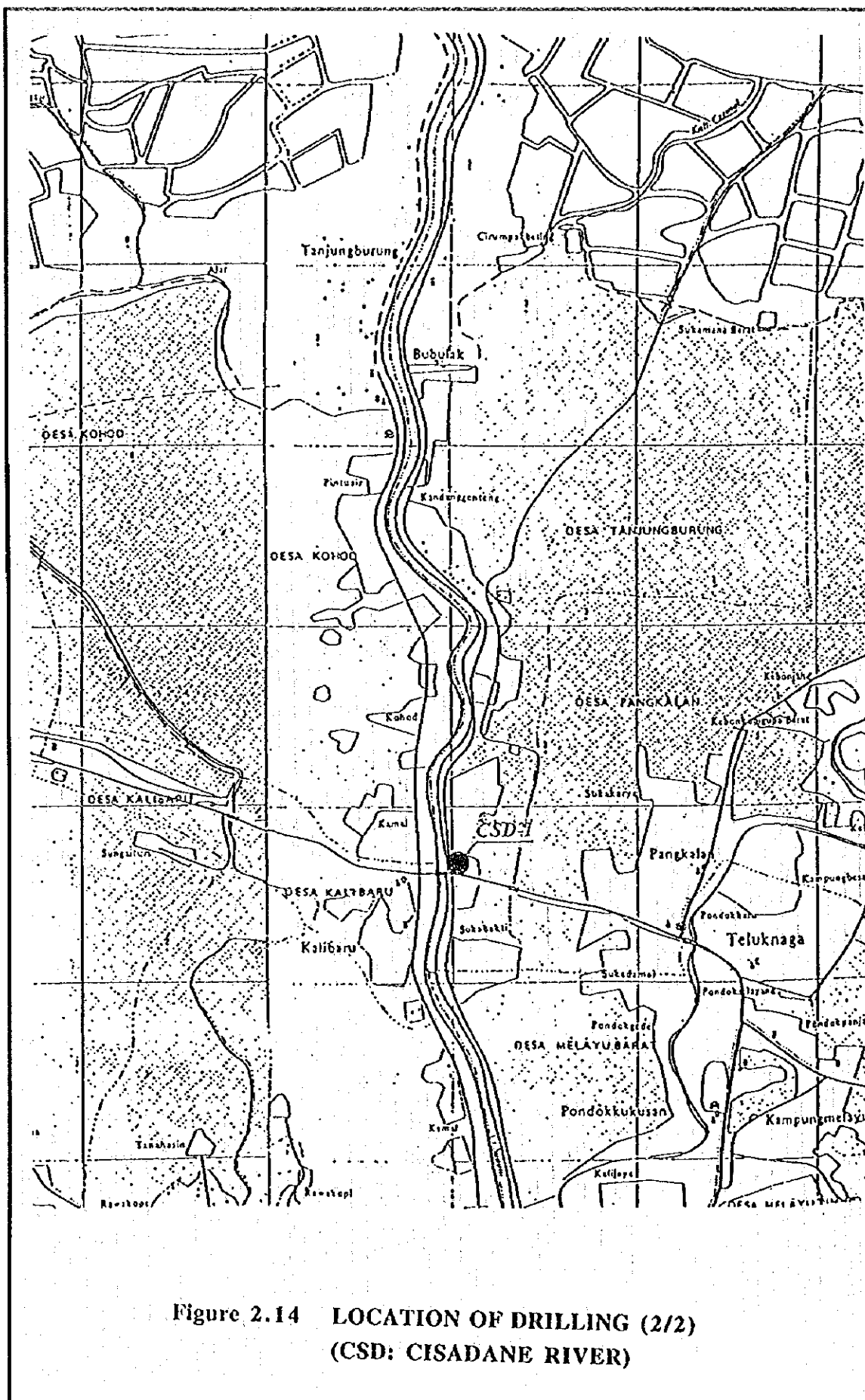


Figure 2.12 LOCATION OF DRILLING
(FLD: CILIWUNG FLOODWAY)







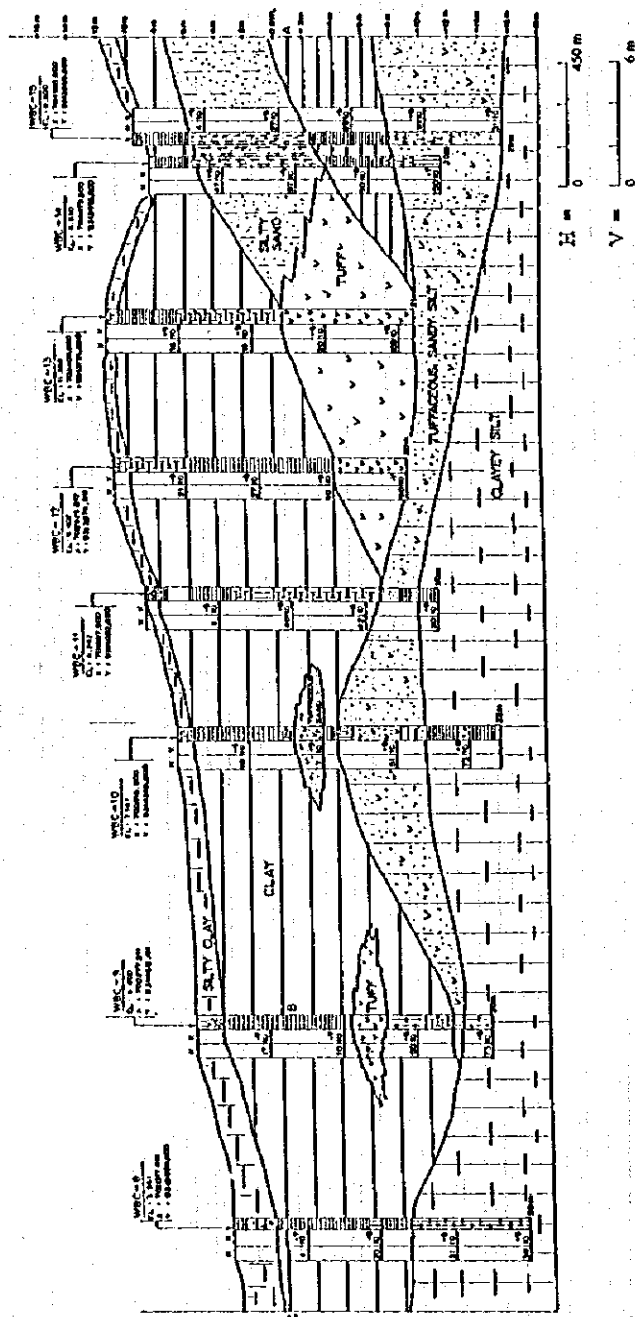
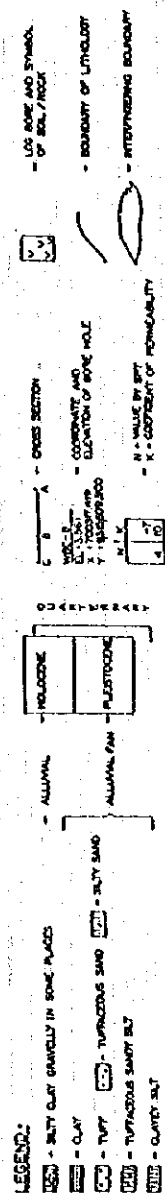
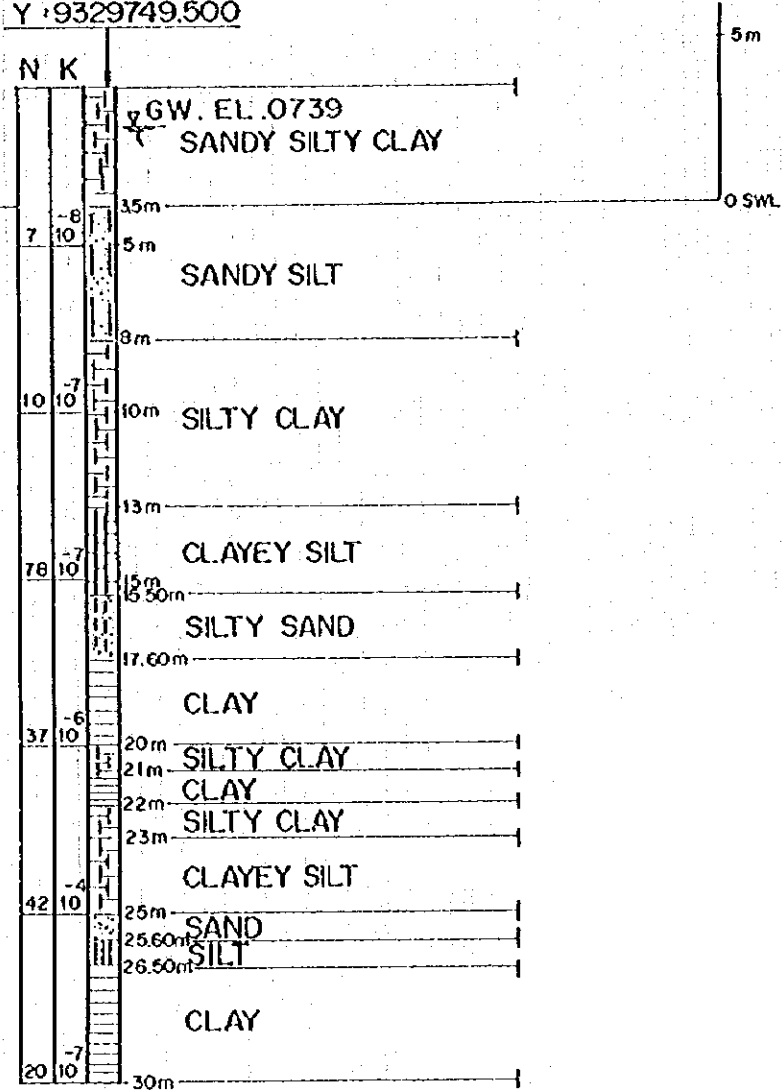


Figure 2.15
GEOLOGICAL PROFILES
(WBC/CISADANE RIVER: 2/3)



HORIZONTAL SCALE : NO SCALE
 VERTICAL SCALE : 1 : 50

CSD-1
 EL : 3.539
 X : 680784.900
 Y : 9329749.500



LEGEND

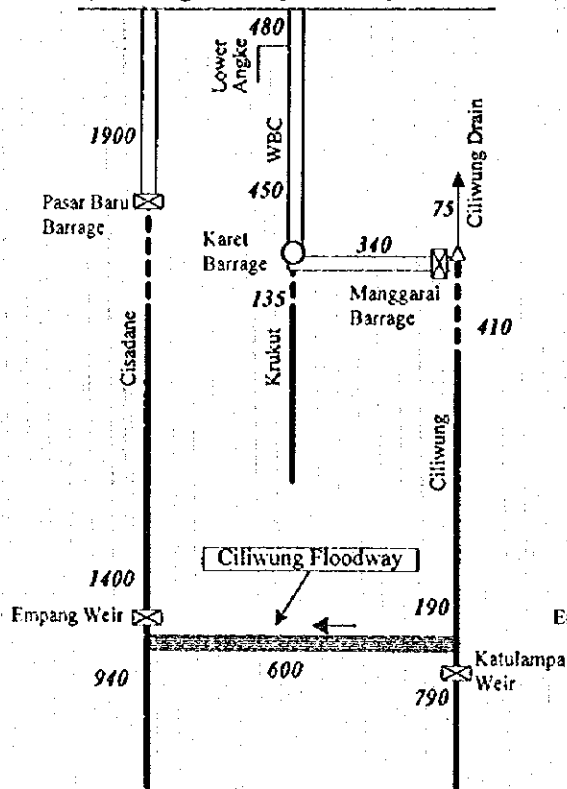
CSD-1
 EL : 3.539
 X : 680784.900
 Y : 9329749.500
 SWL = SEA WATER
 LEVEL

N	K
20	-7 10

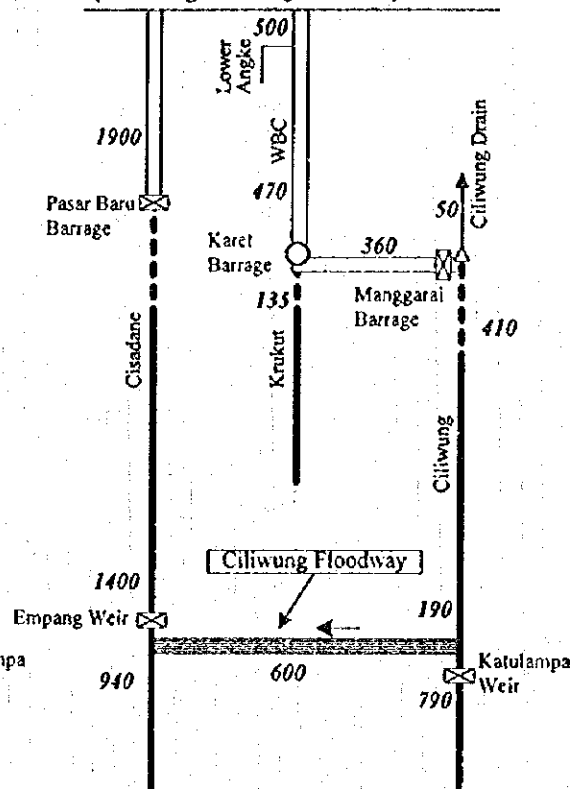
N = VALUE BY SPT AND
 K = COEFFICIENT PERMEABILITY

Figure 2.15 GEOLOGICAL PROFILES
 (WBC/CISADANE RIVER: 3/3)

1) NEW MASTER PLAN (Original Plan)
(Ciliwung Drain $Q=75\text{m}^3/\text{s}$)



2) NEW MASTER PLAN (Revised Plan)
(Ciliwung Drain $Q=50\text{ m}^3/\text{s}$)



3) PRESENT DESIGN DISCHARGE DISTRIBUTION
(by NEDECO and West Jakarta Flood Control Project)
(Ciliwung Drain $Q=75\text{m}^3/\text{s}$)

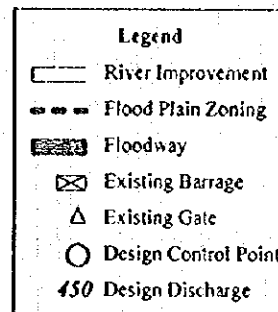
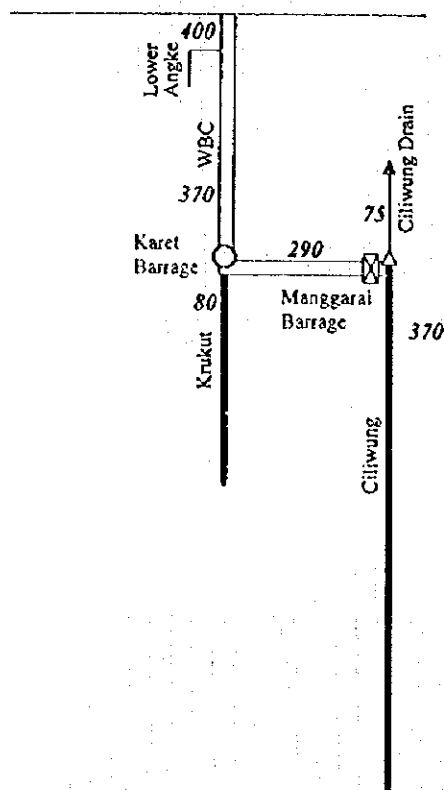


Figure 2.16
DESIGN DISCHARGE DISTRIBUTION AT MANGGARAI

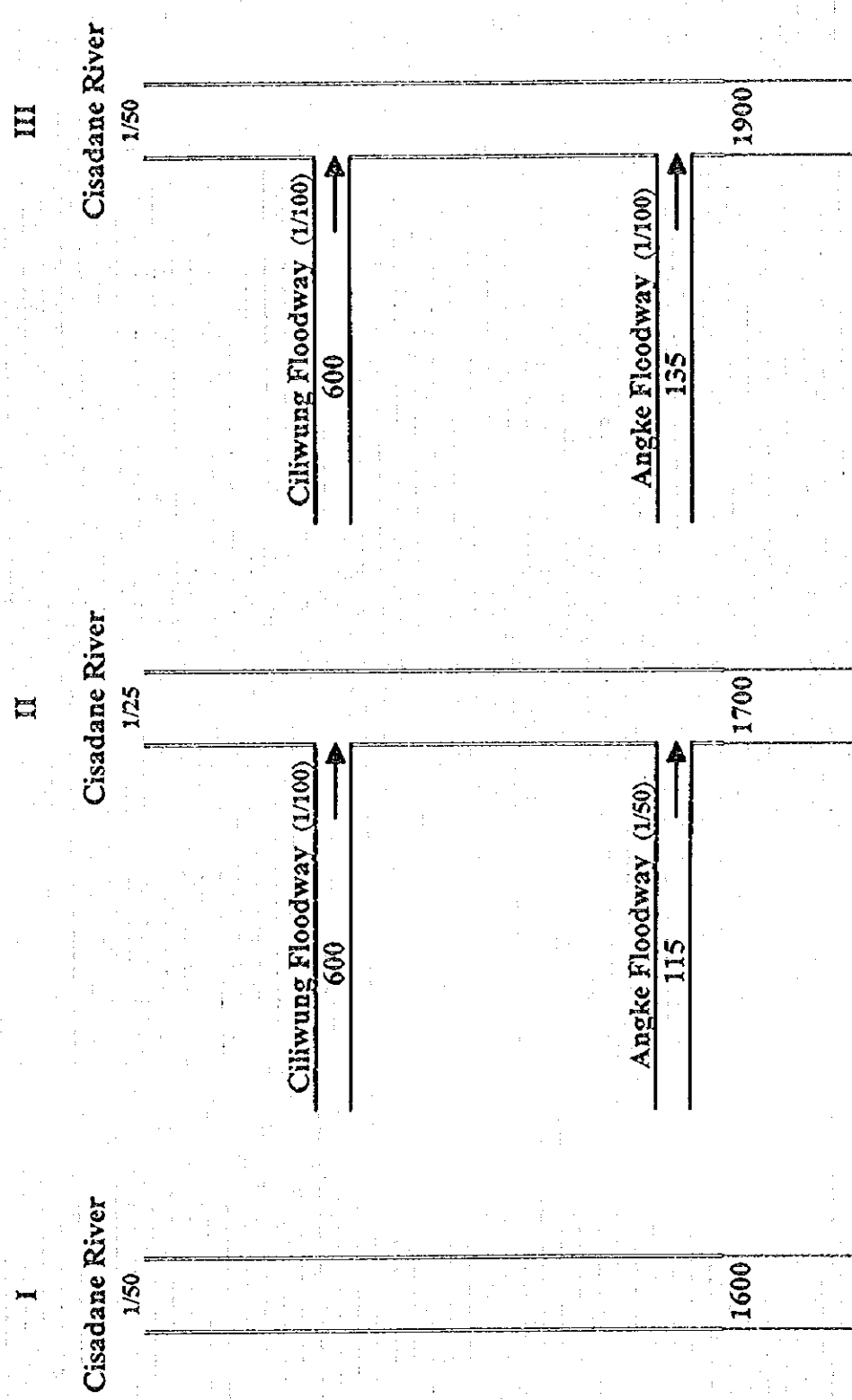


Figure 2.17 ALTERNATIVES OF DESIGN DISCHARGE DISTRIBUTION OF CISADANE RIVER

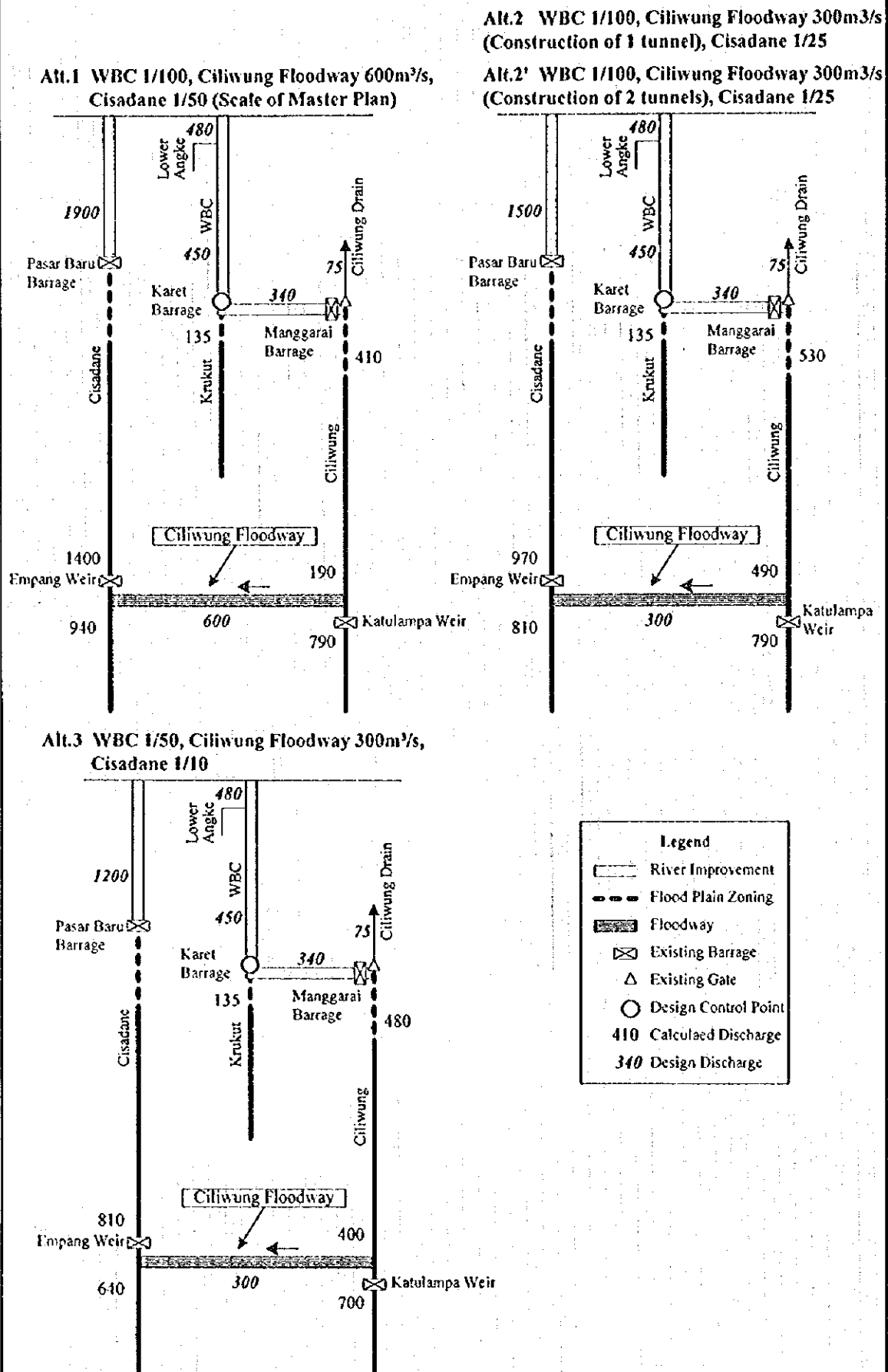
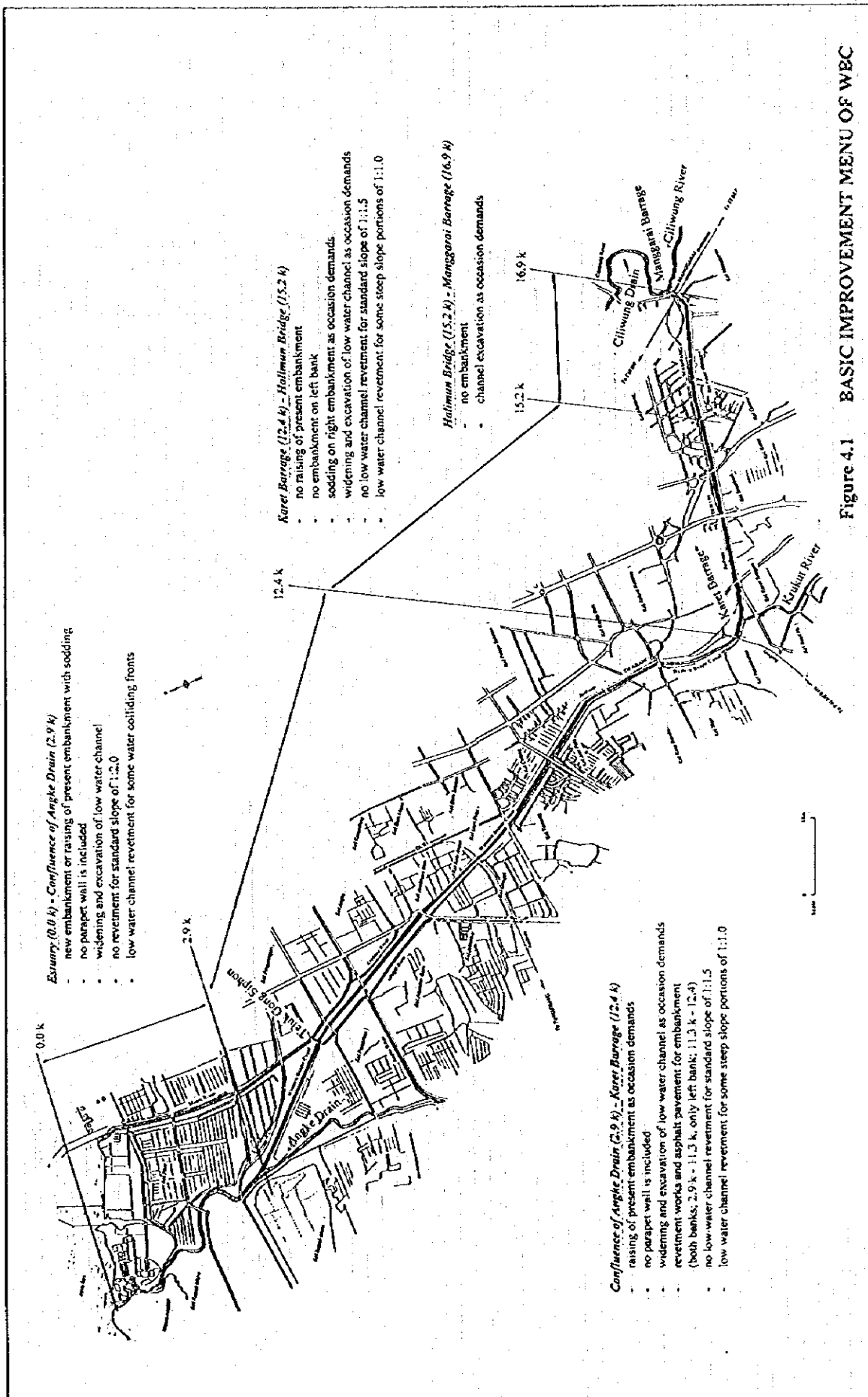
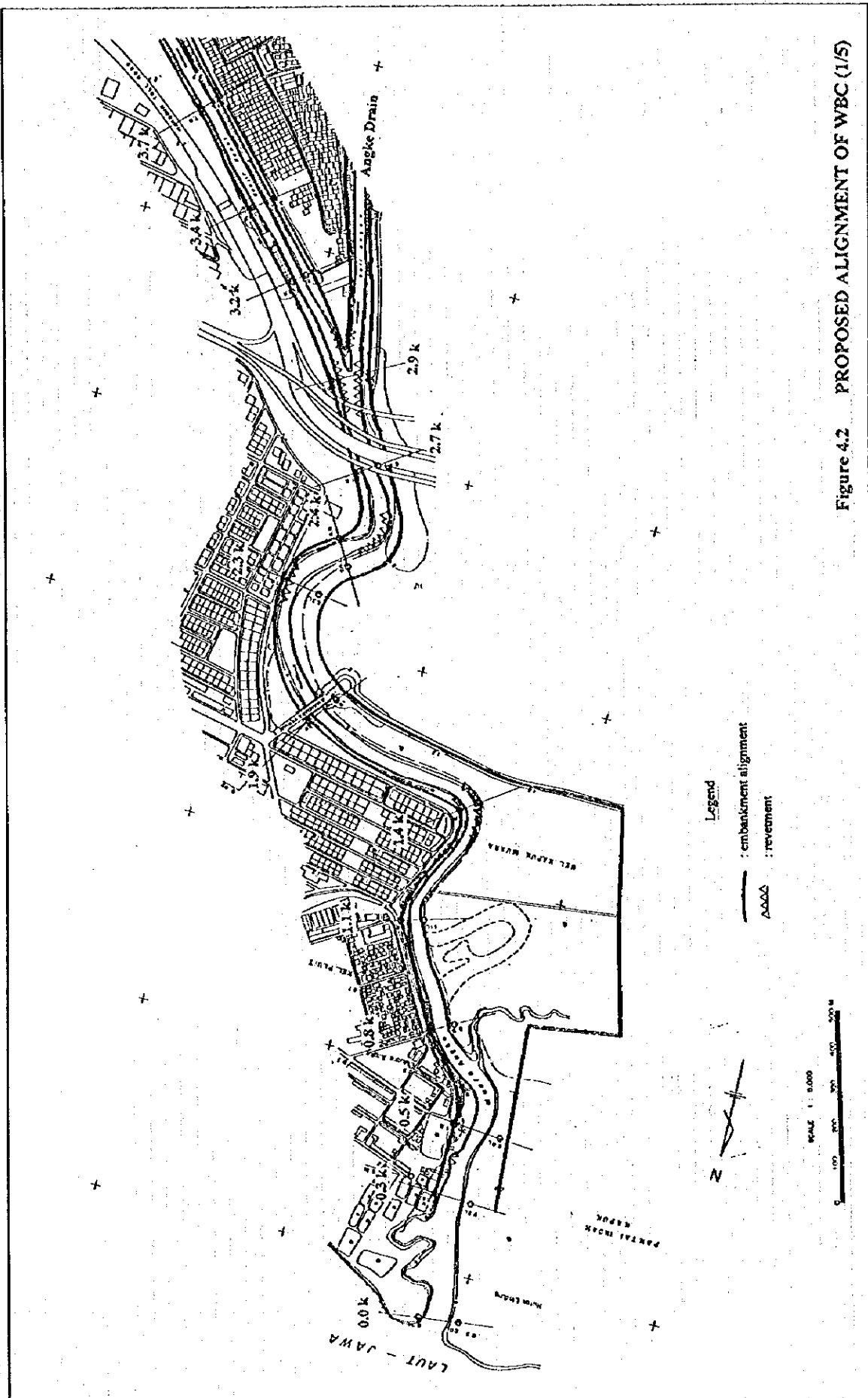
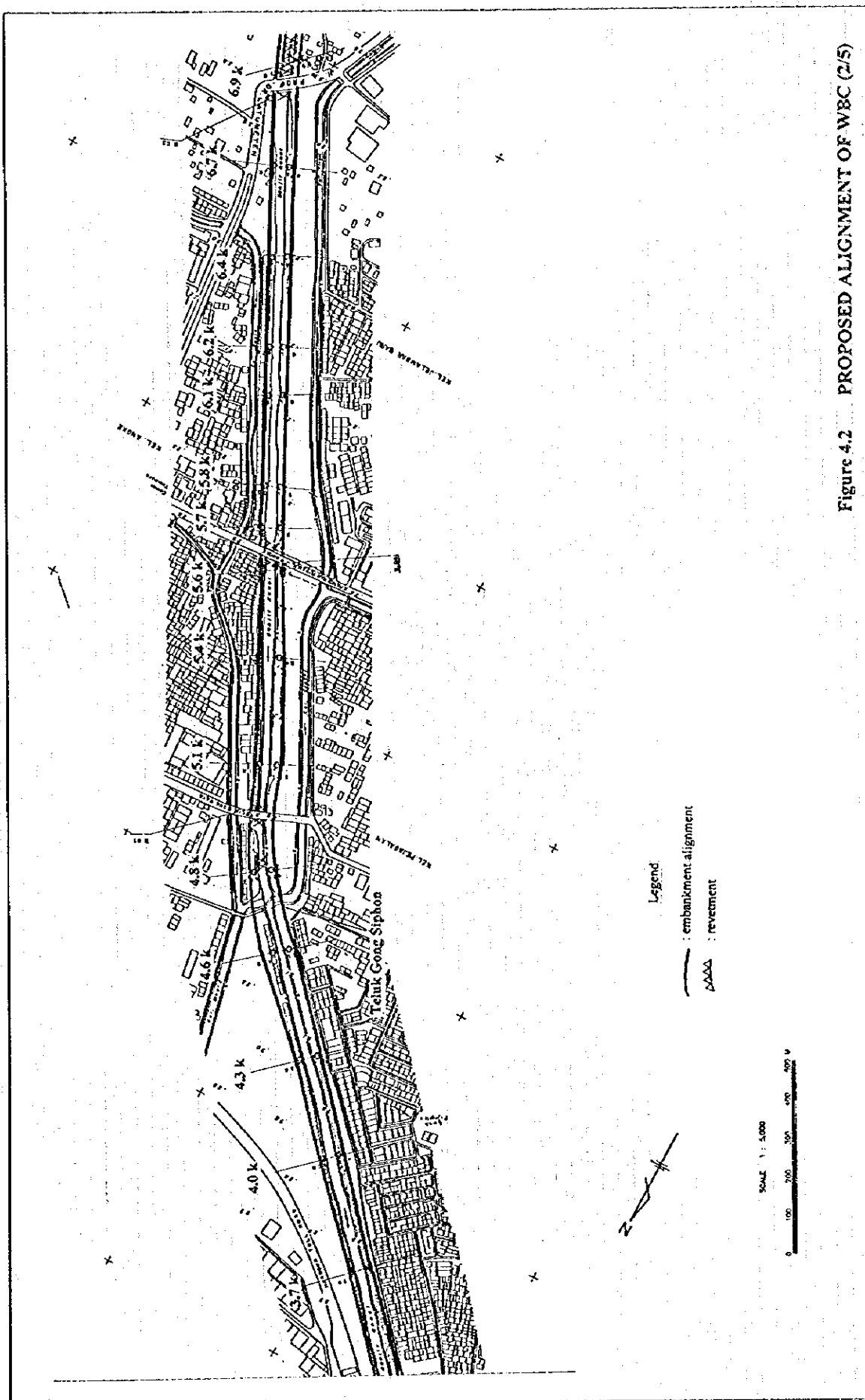
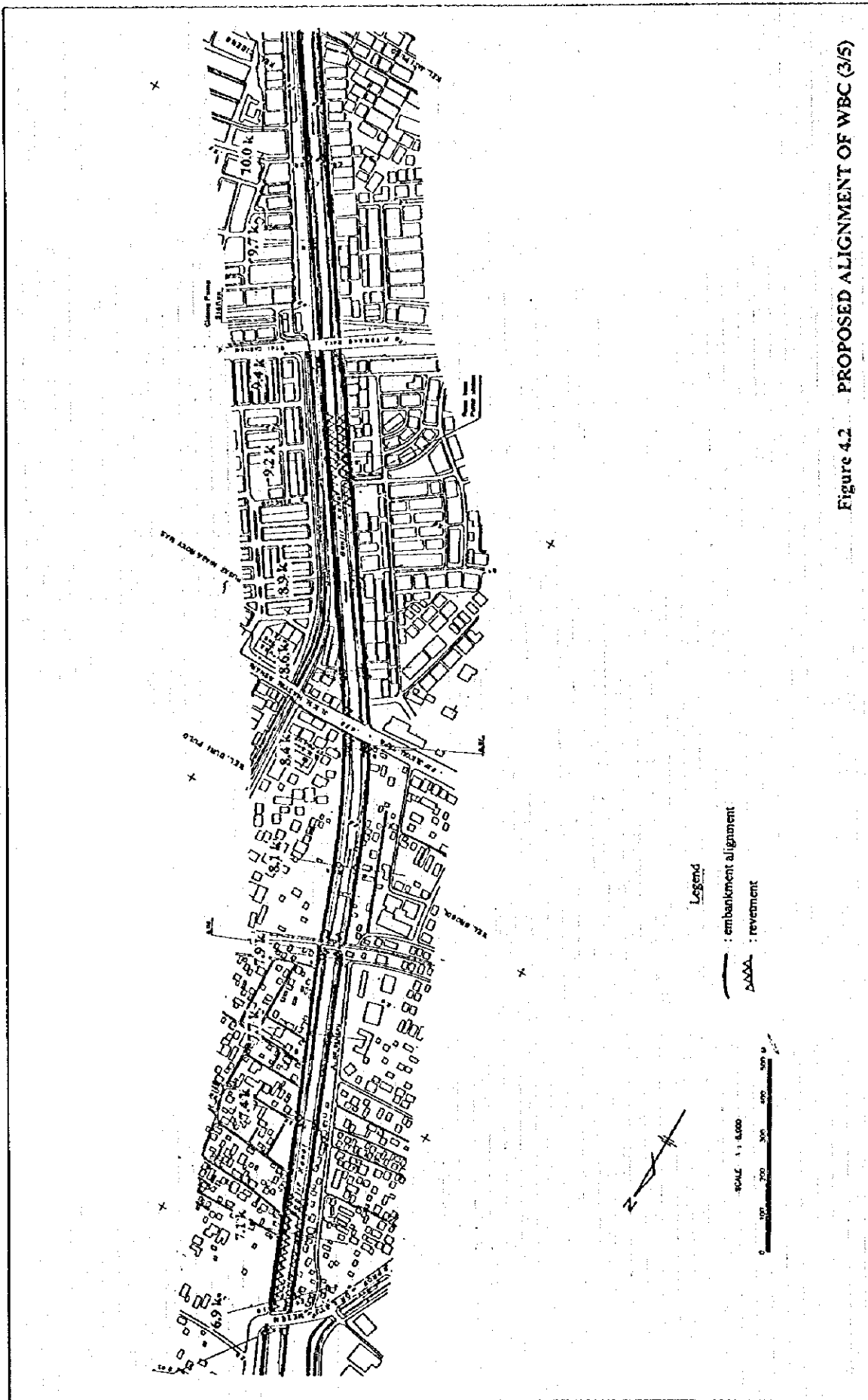


Figure 3.1 ALTERNATIVE SCHEMES FOR URGENT FLOOD CONTROL PROJECT









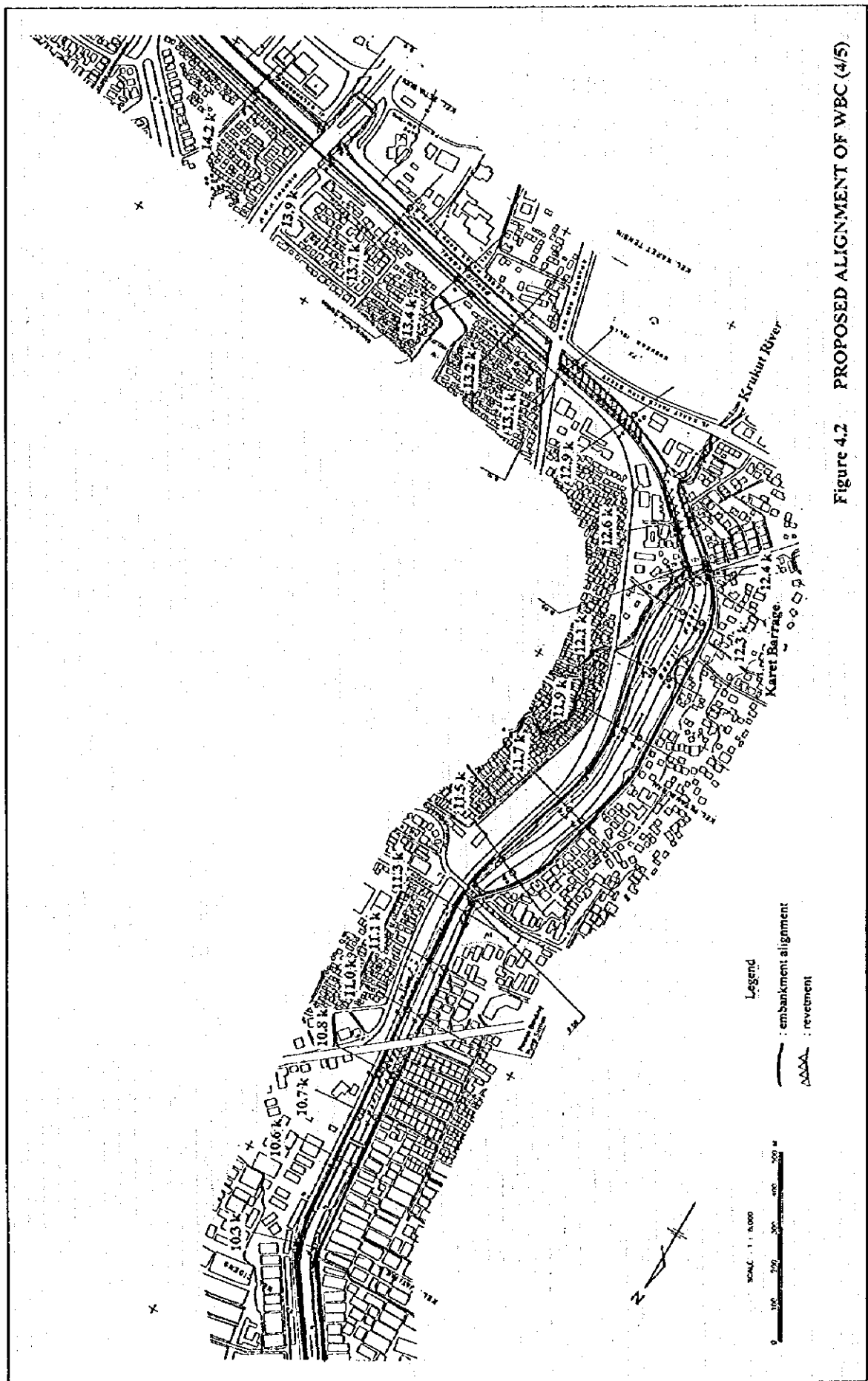
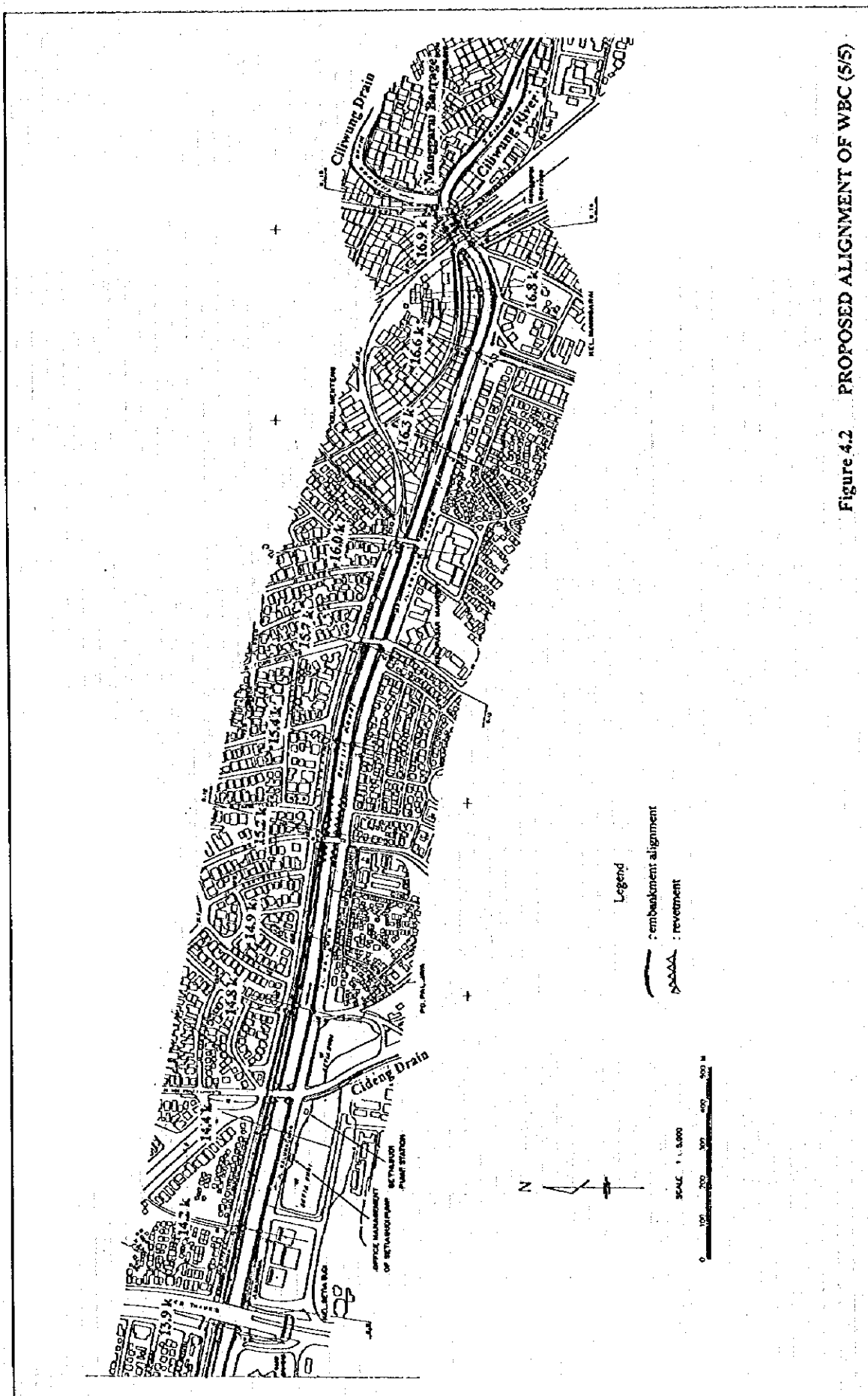


Figure 4.2 PROPOSED ALIGNMENT OF WBC (4/5)



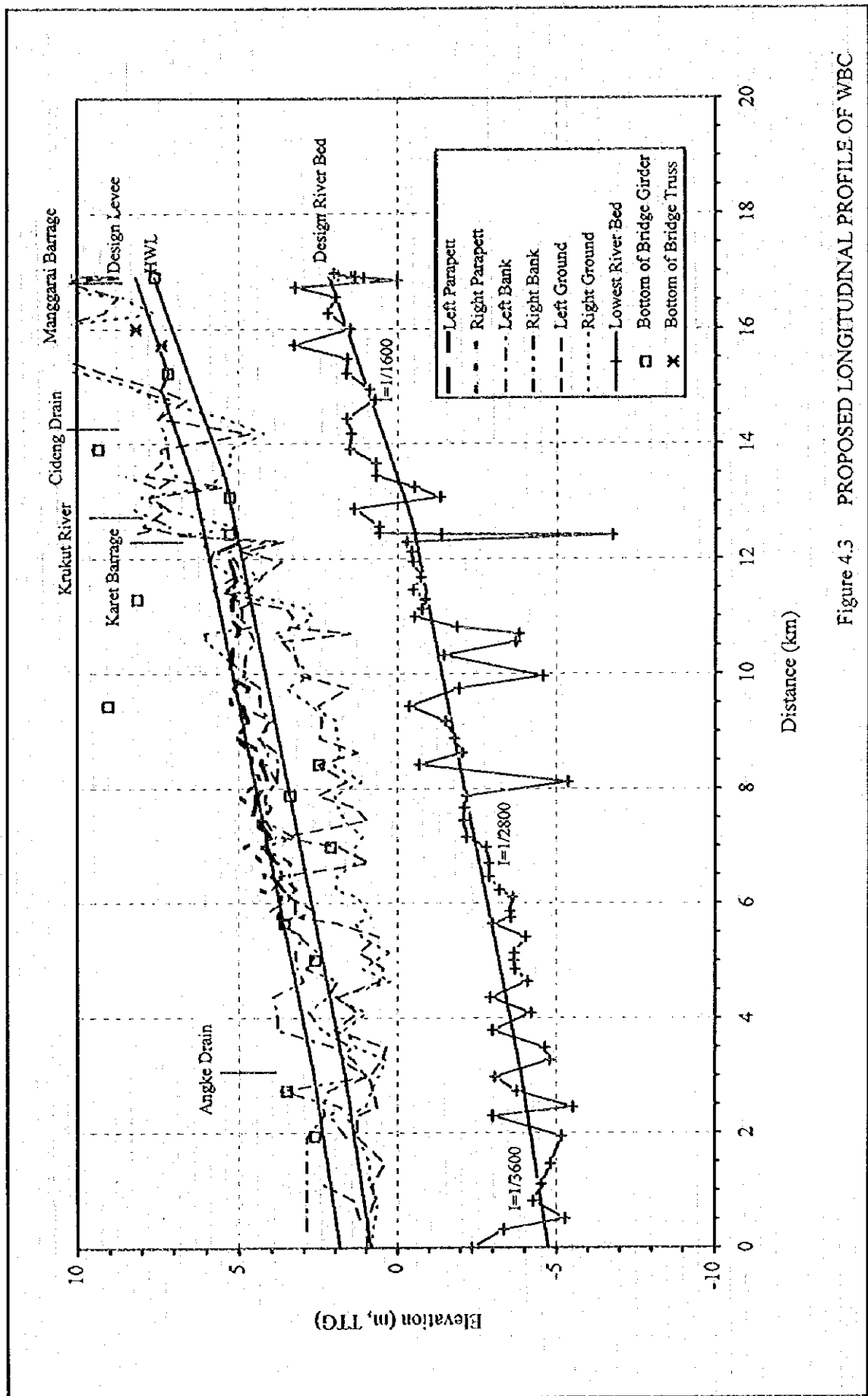


Figure 4.3 PROPOSED LONGITUDINAL PROFILE OF WBC

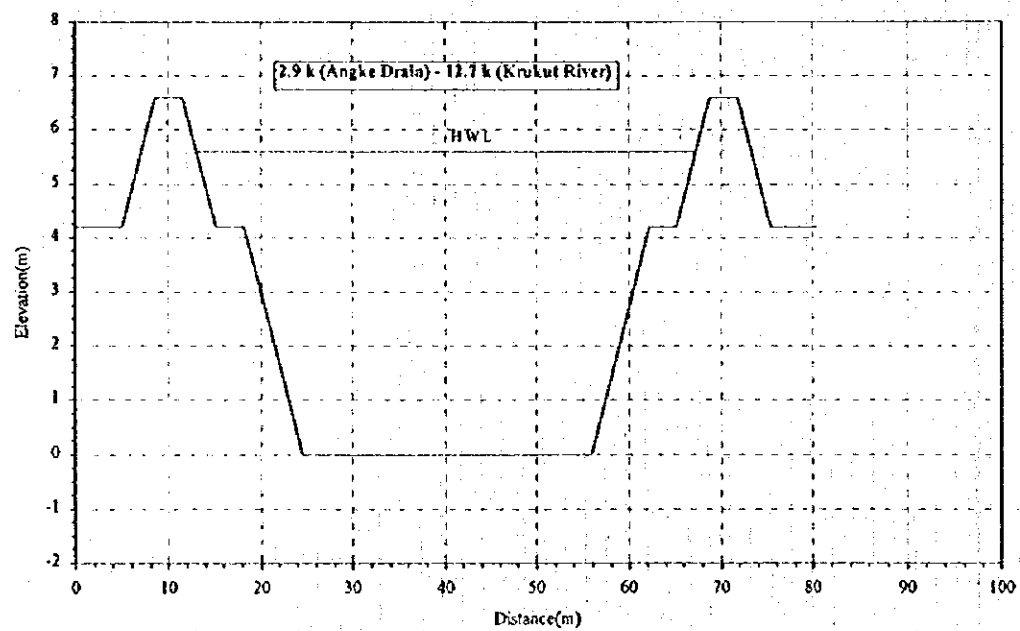
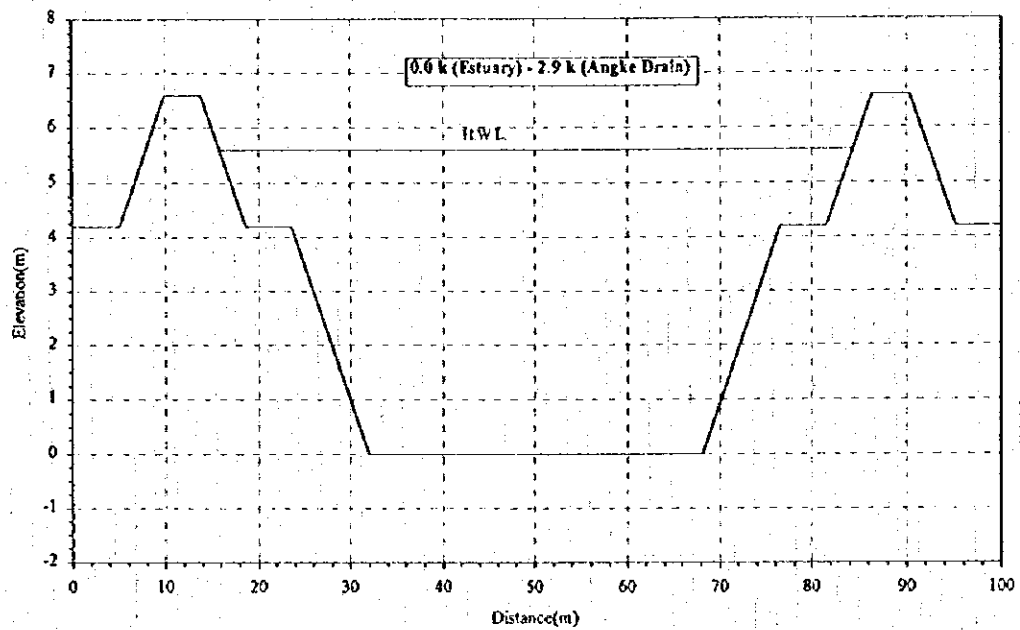


Figure 4.4 PROPOSED STANDARD CROSS SECTION OF WBC (1/2)

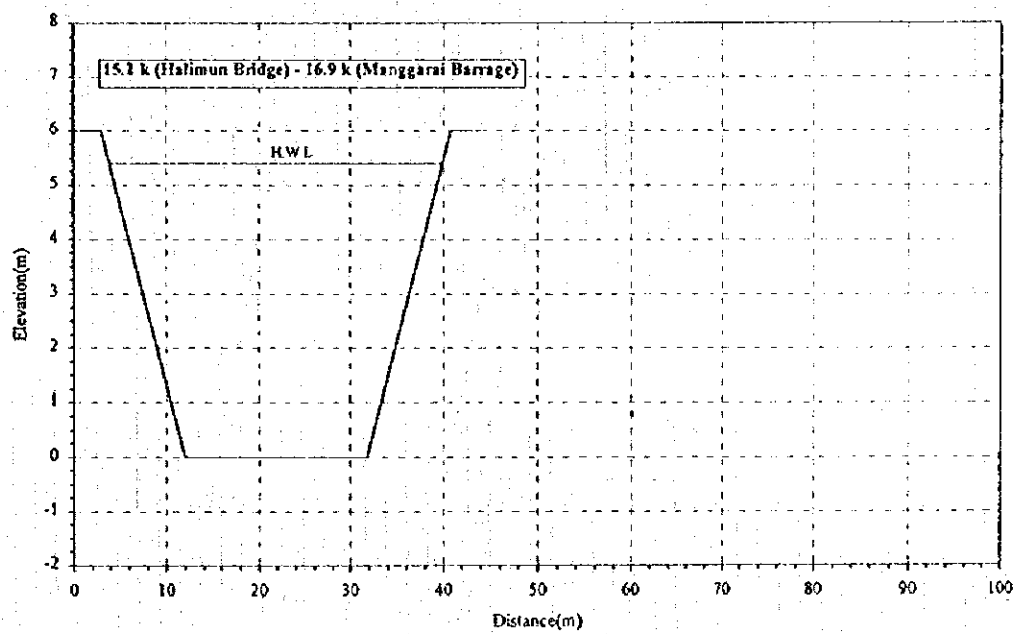
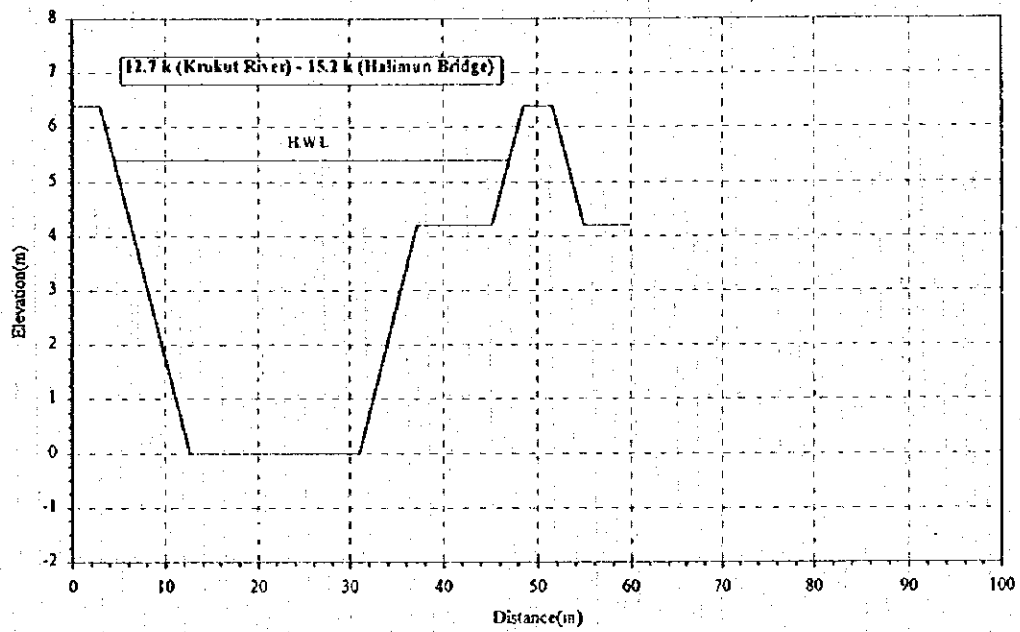
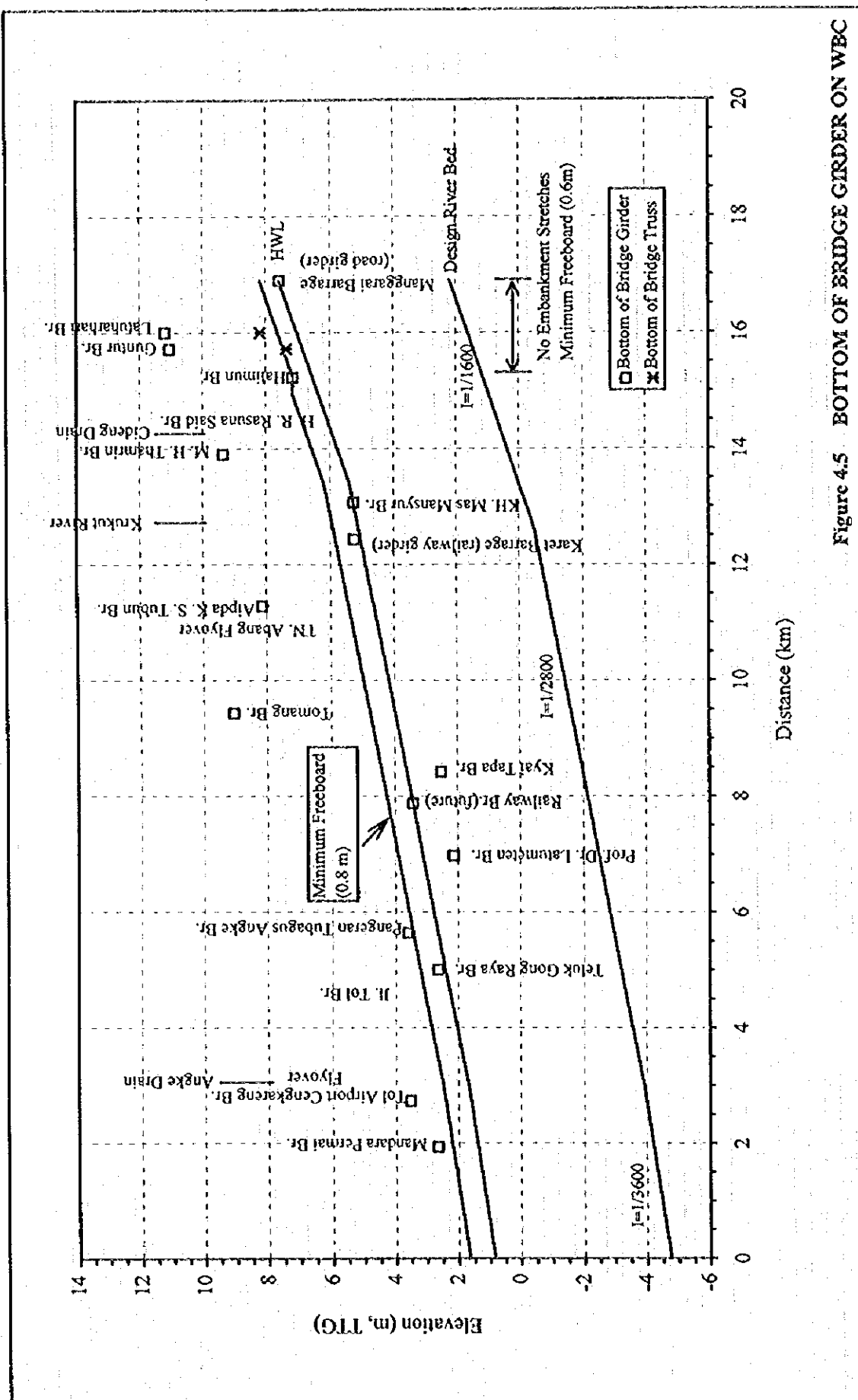
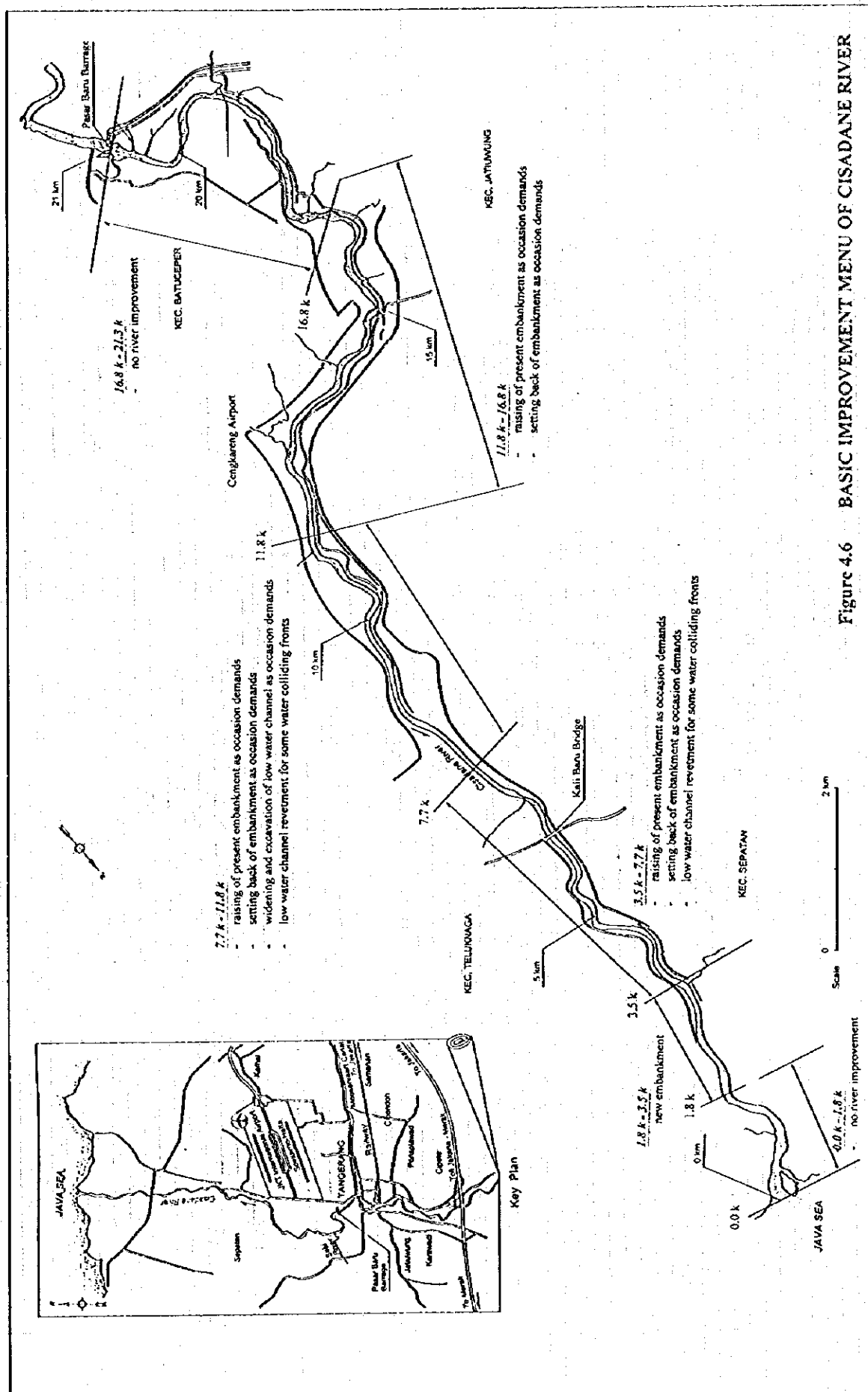


Figure 4.4 PROPOSED STANDARD CROSS SECTION OF WBC (2/2)





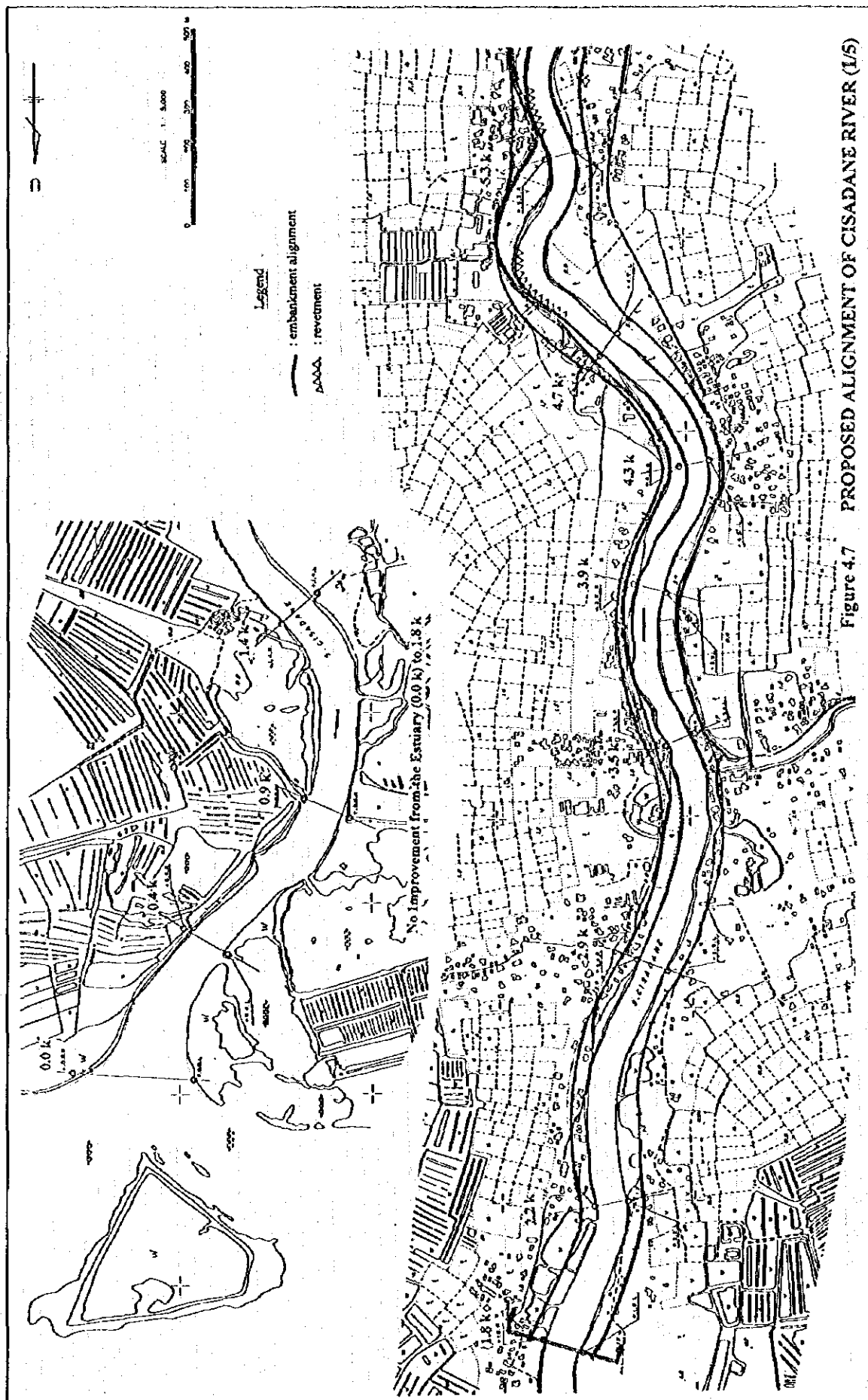


Figure 4.7 PROPOSED ALIGNMENT OF CISADANE RIVER (1/5)

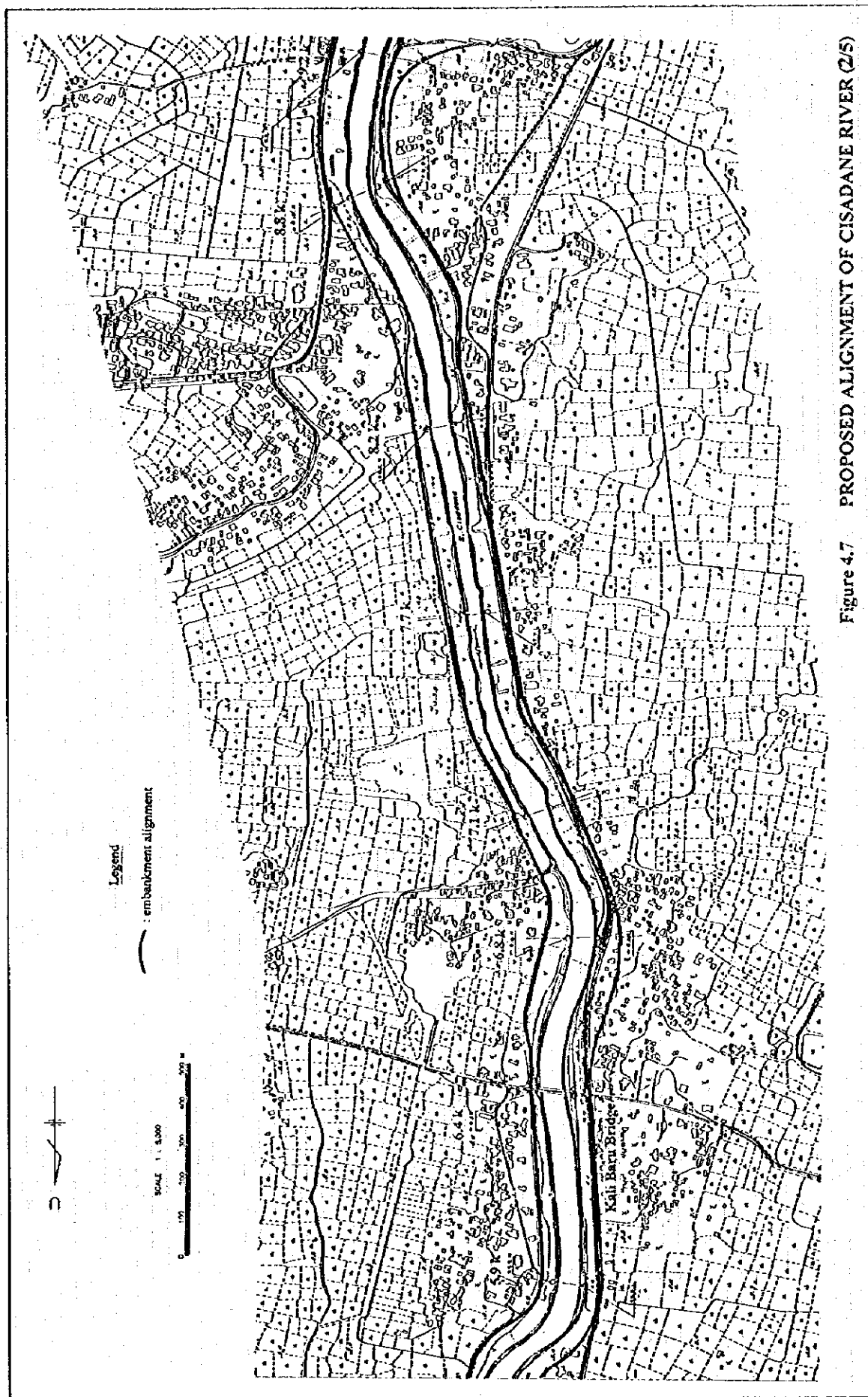


Figure 4.7 PROPOSED ALIGNMENT OF CISADANE RIVER (2/5)

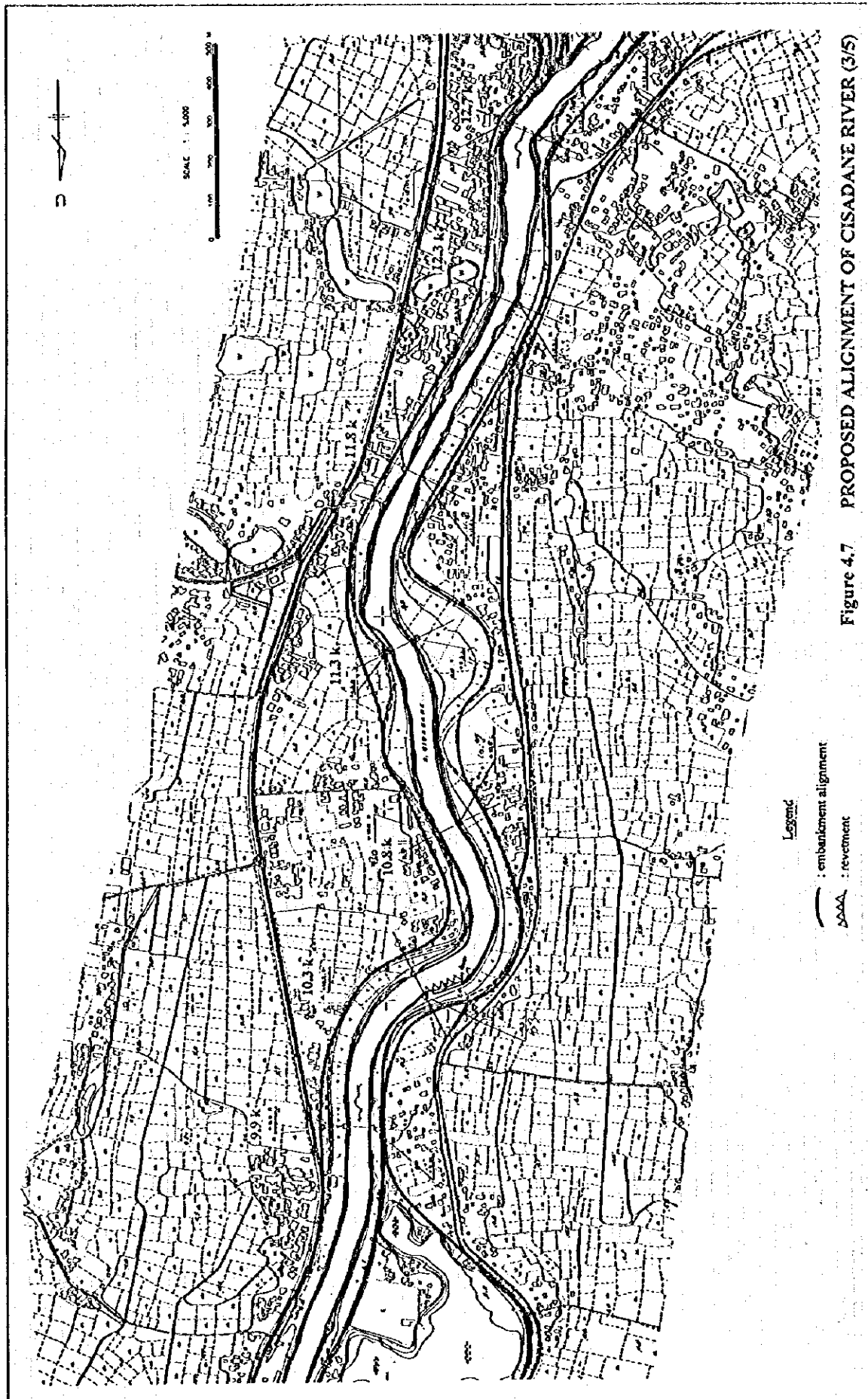


Figure 4.7 PROPOSED ALIGNMENT OF CISADANE RIVER (3/5)

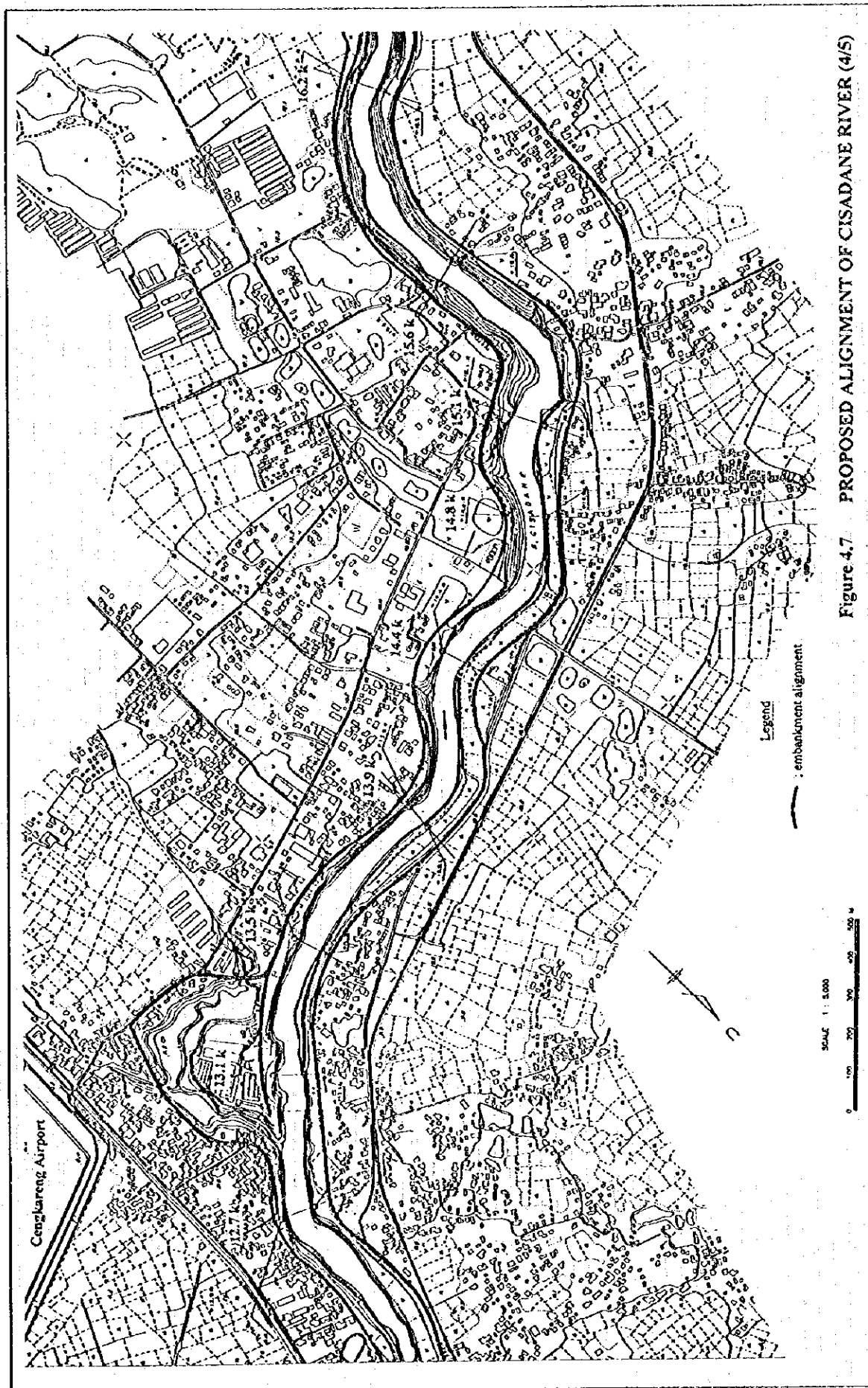


Figure 4.7 PROPOSED ALIGNMENT OF CISADANE RIVER (4/5)



Figure 4.7 PROPOSED ALIGNMENT OF CISADANE RIVER (5/5)

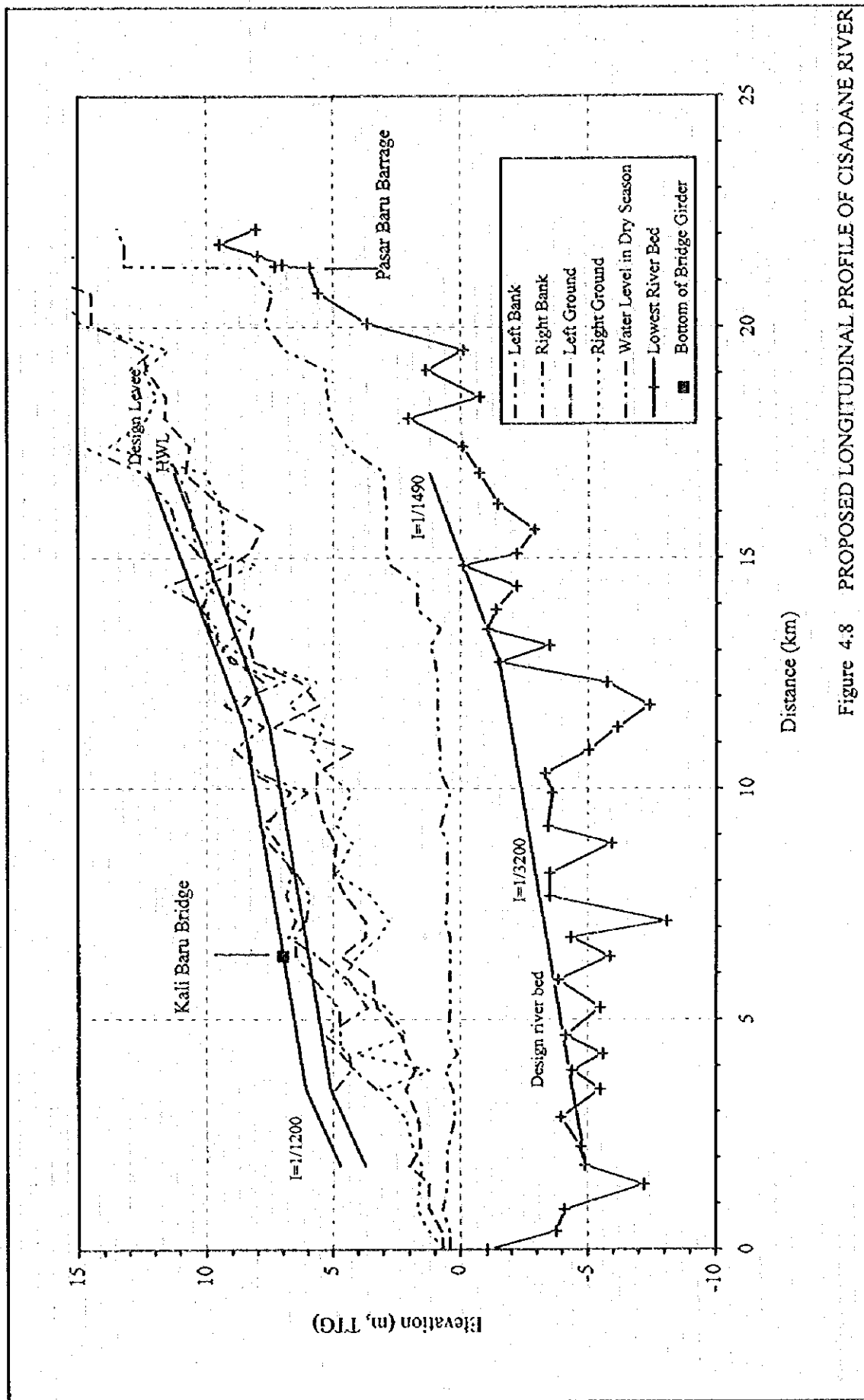


Figure 4.8 PROPOSED LONGITUDINAL PROFILE OF CISADANE RIVER

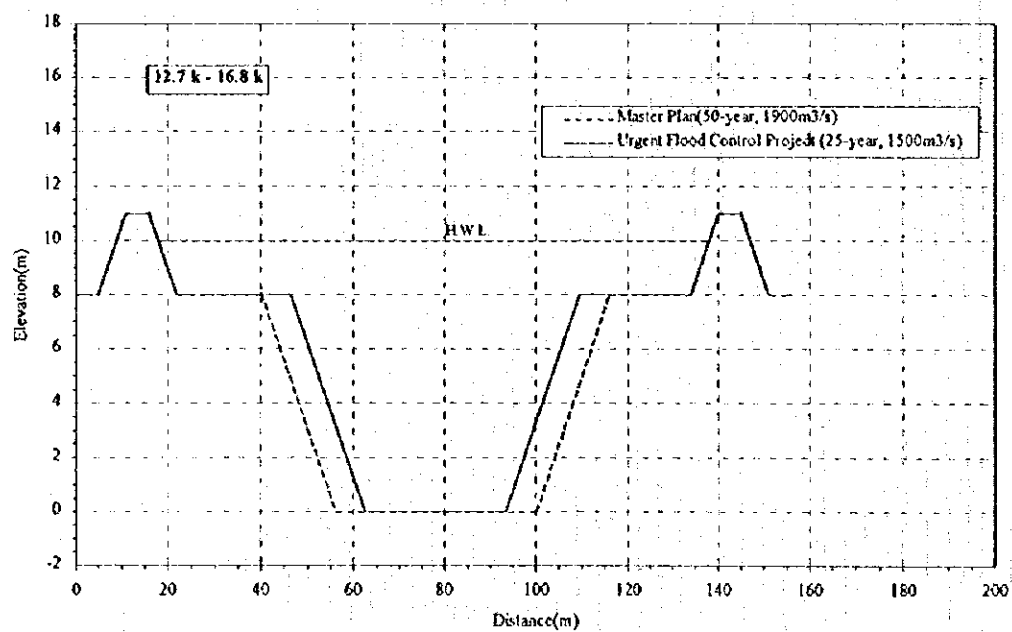
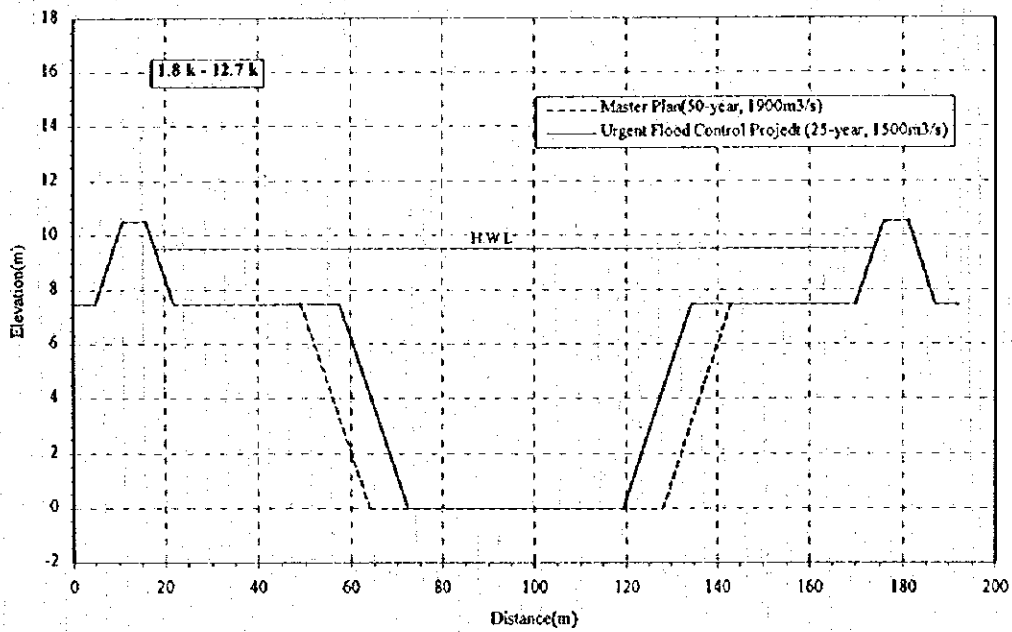


Figure 4.9 PROPOSED STANDARD CROSS SECTION OF CISADANE RIVER

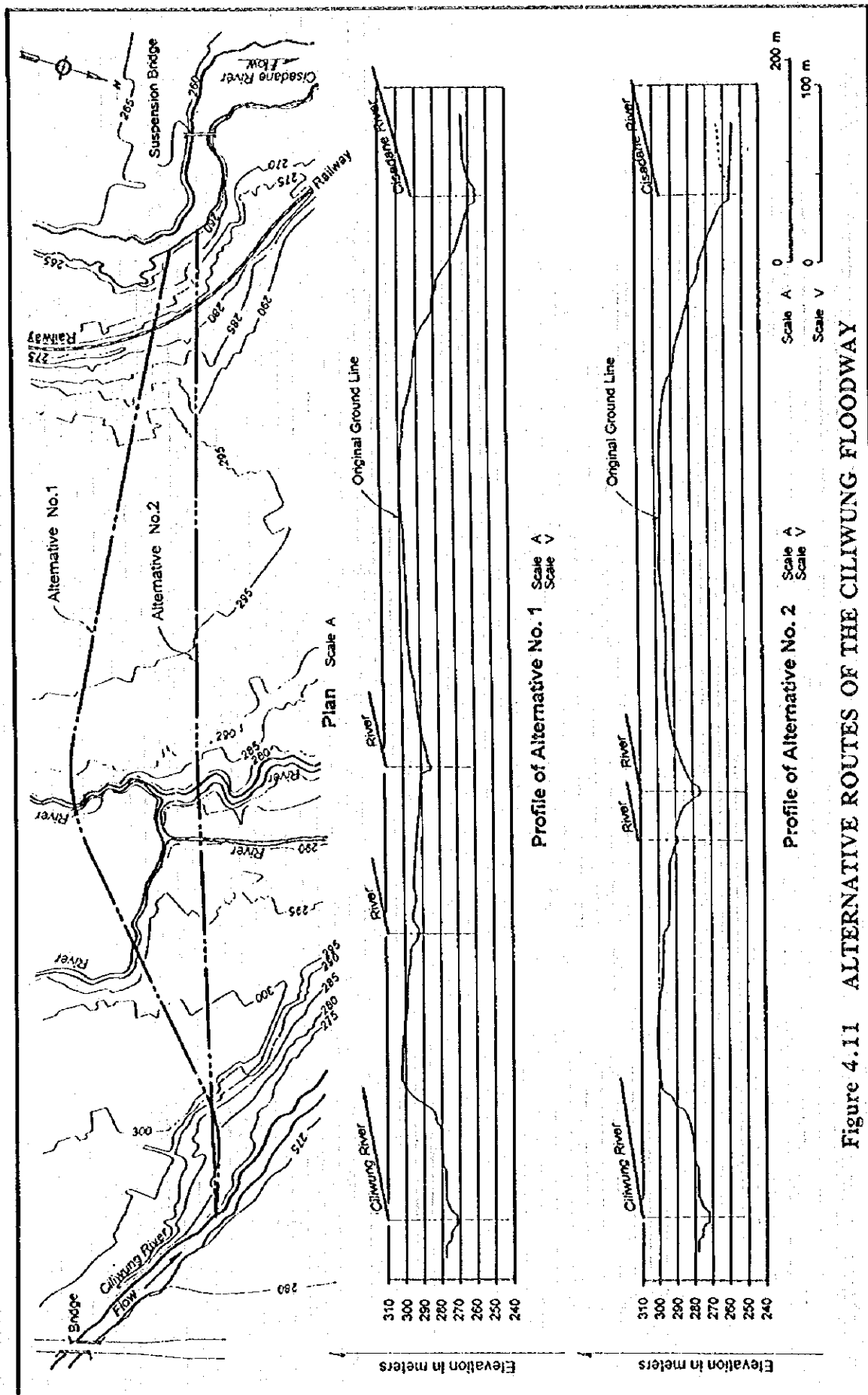
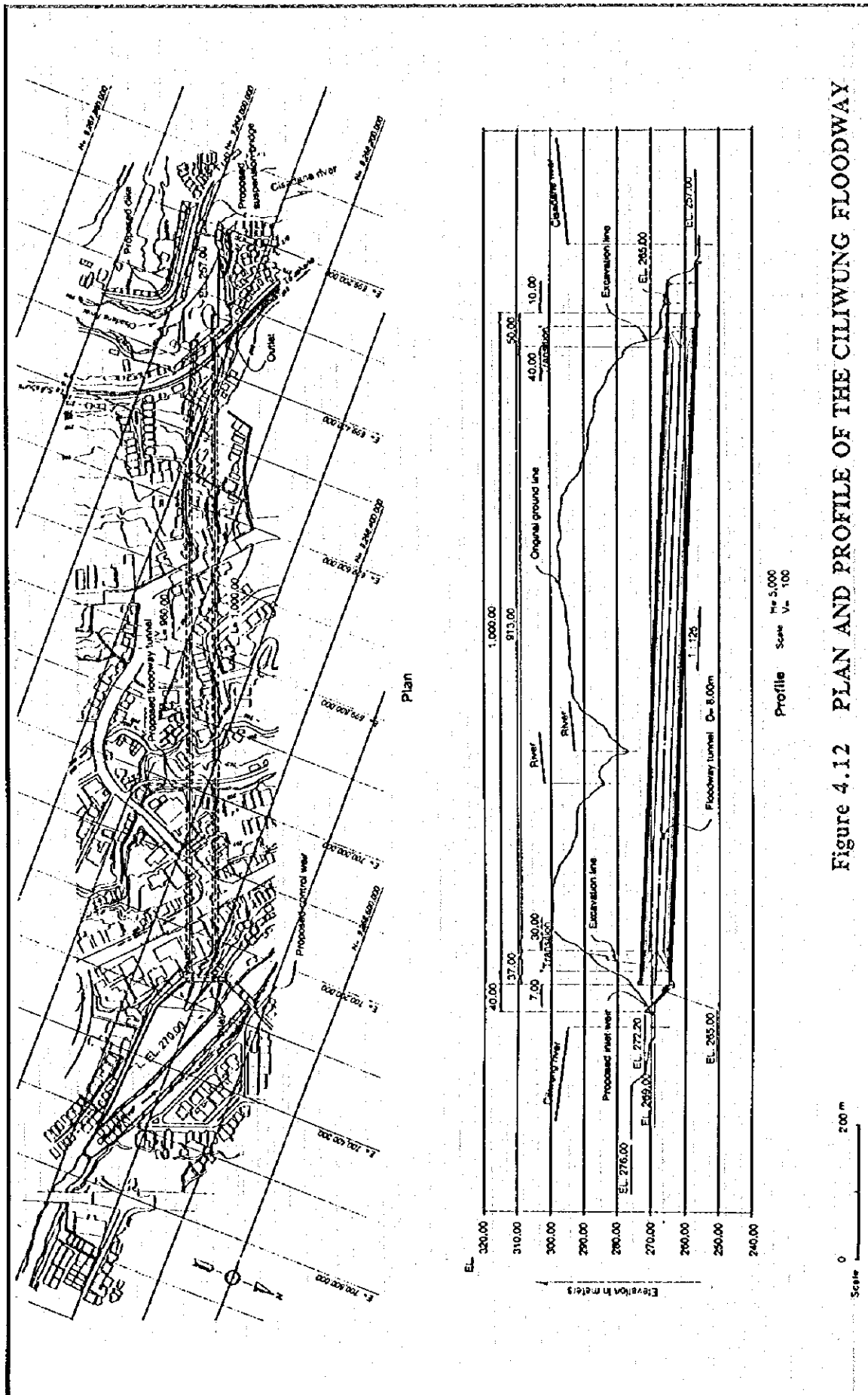


Figure 4.11 ALTERNATIVE ROUTES OF THE CILIWUNG FLOODWAY



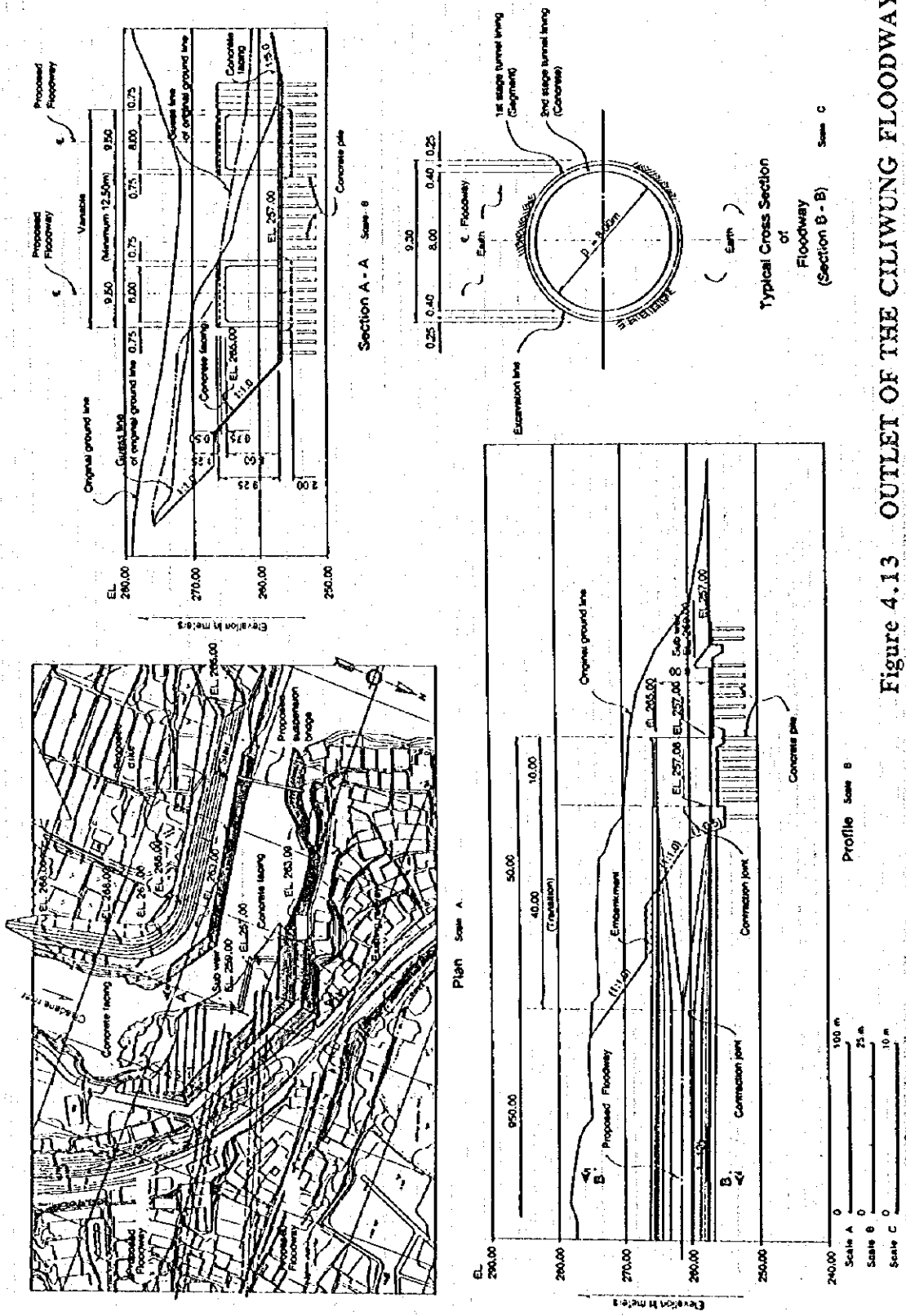


Figure 4.13 OUTLET OF THE CILIWUNG FLOODWAY

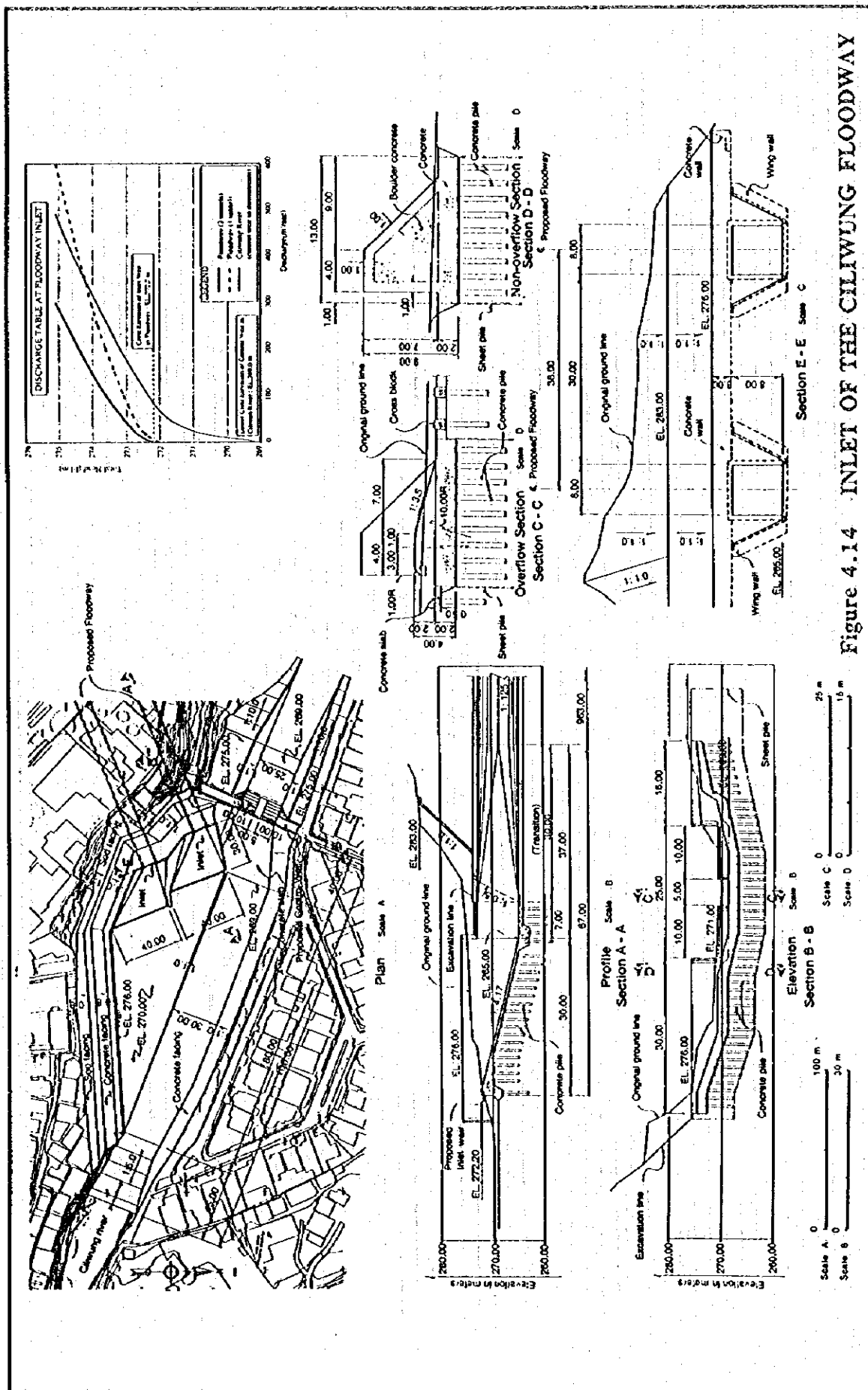
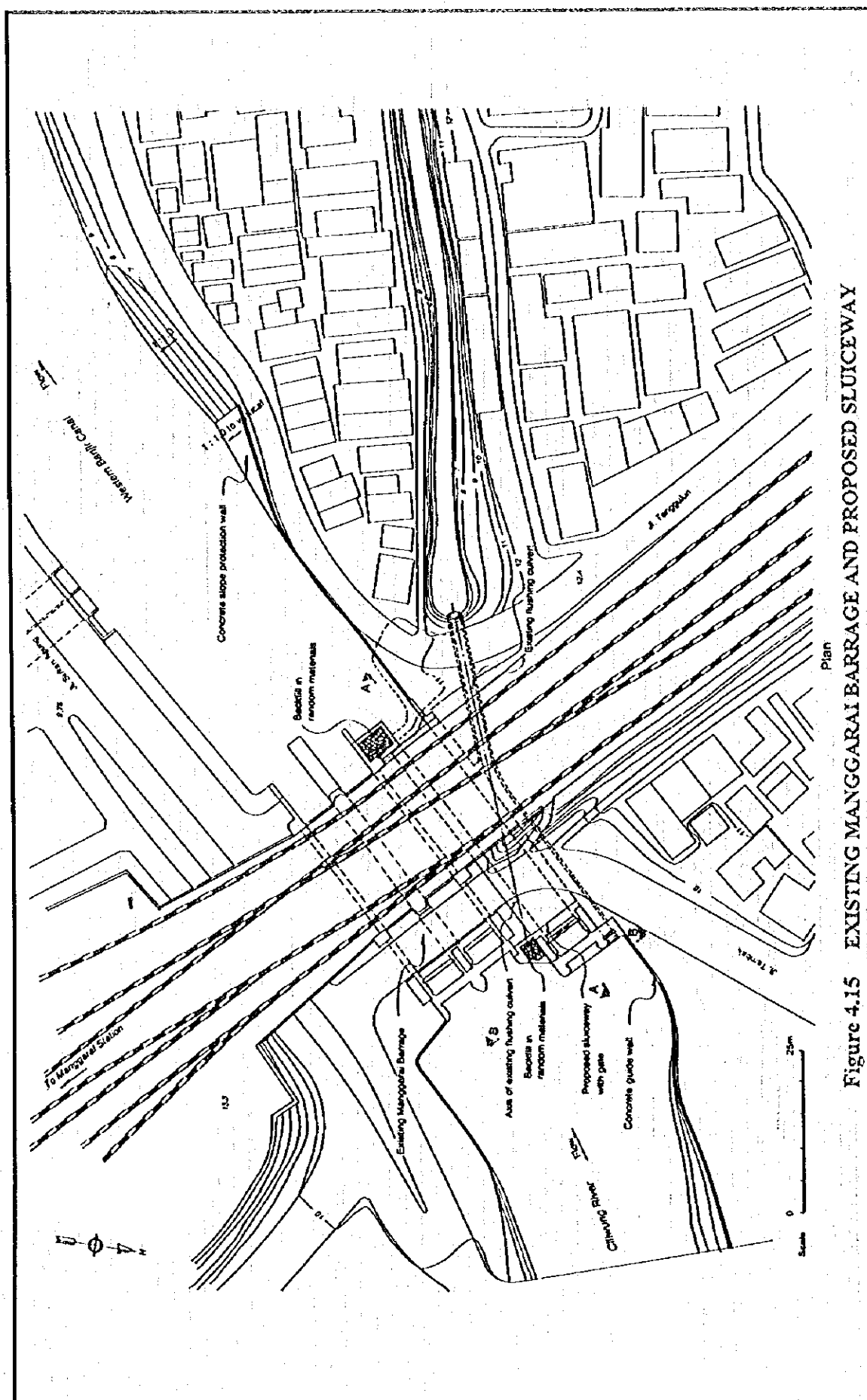


Figure 4.14 INLET OF THE CILIWUNG FLOODWAY



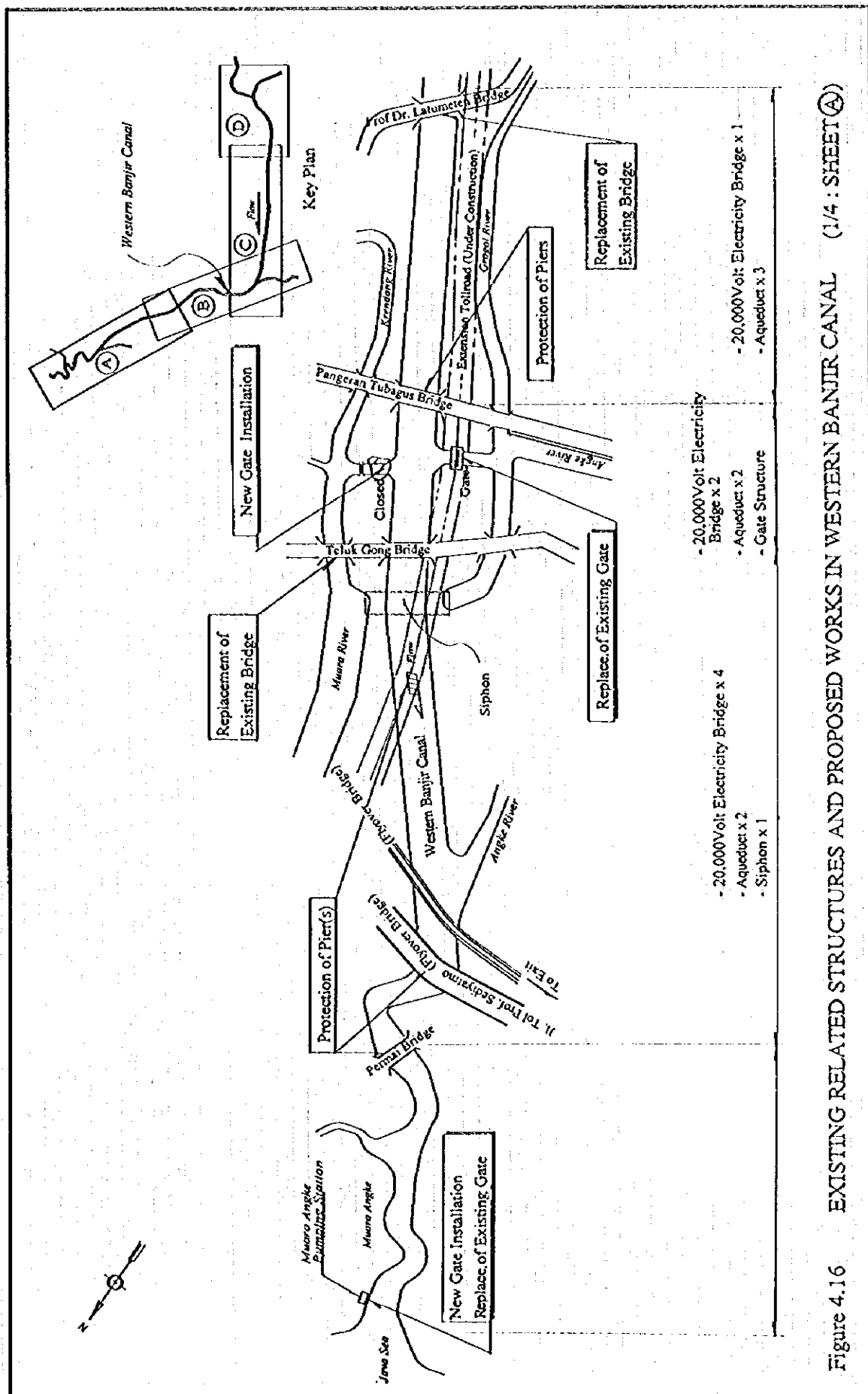


Figure 4.16 EXISTING RELATED STRUCTURES AND PROPOSED WORKS IN WESTERN BANJIR CANAL (1/4 : SHEET A)



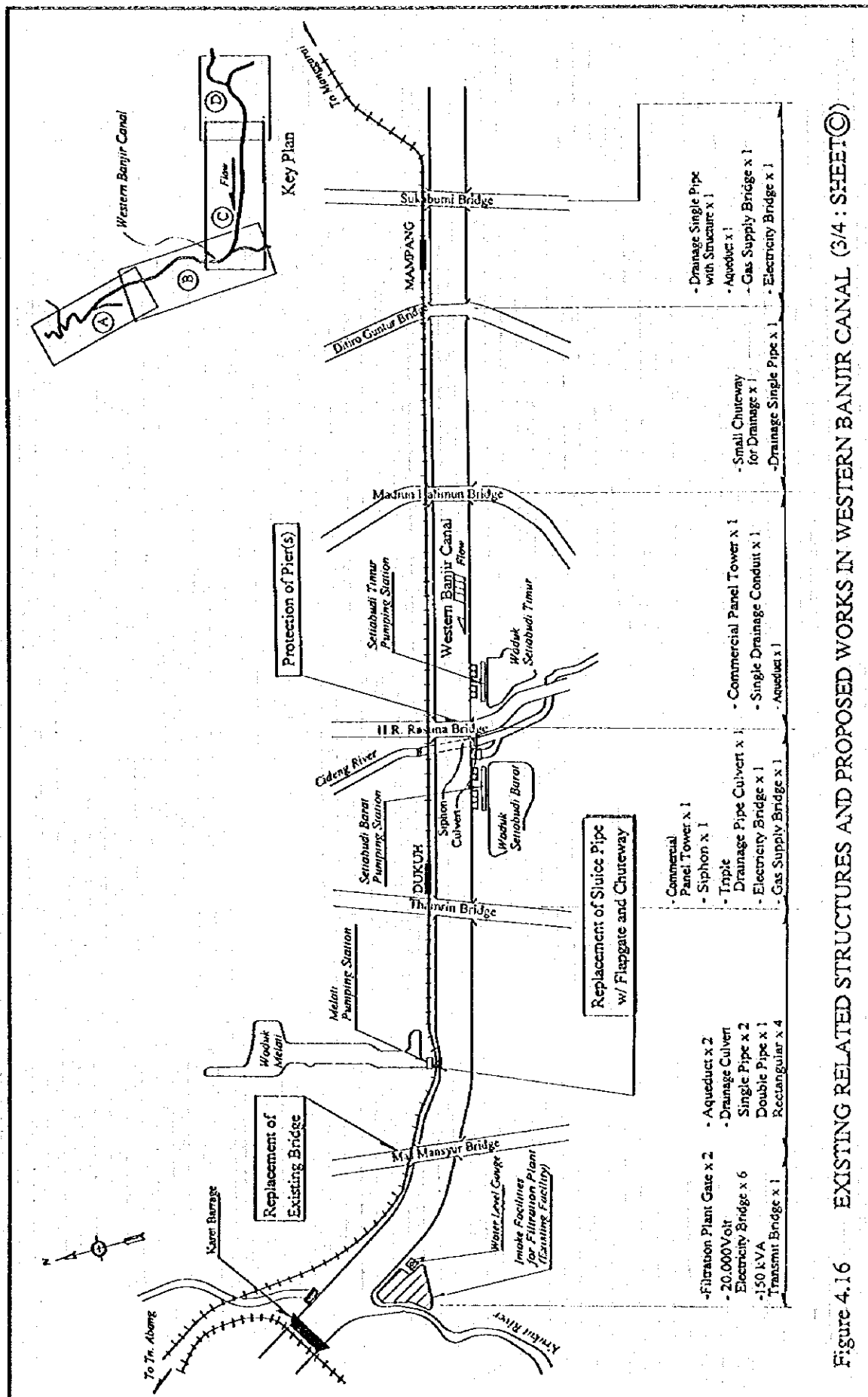


Figure 4.16 EXISTING RELATED STRUCTURES AND PROPOSED WORKS IN WESTERN BANJIR CANAL (3/4 : SHEET©)

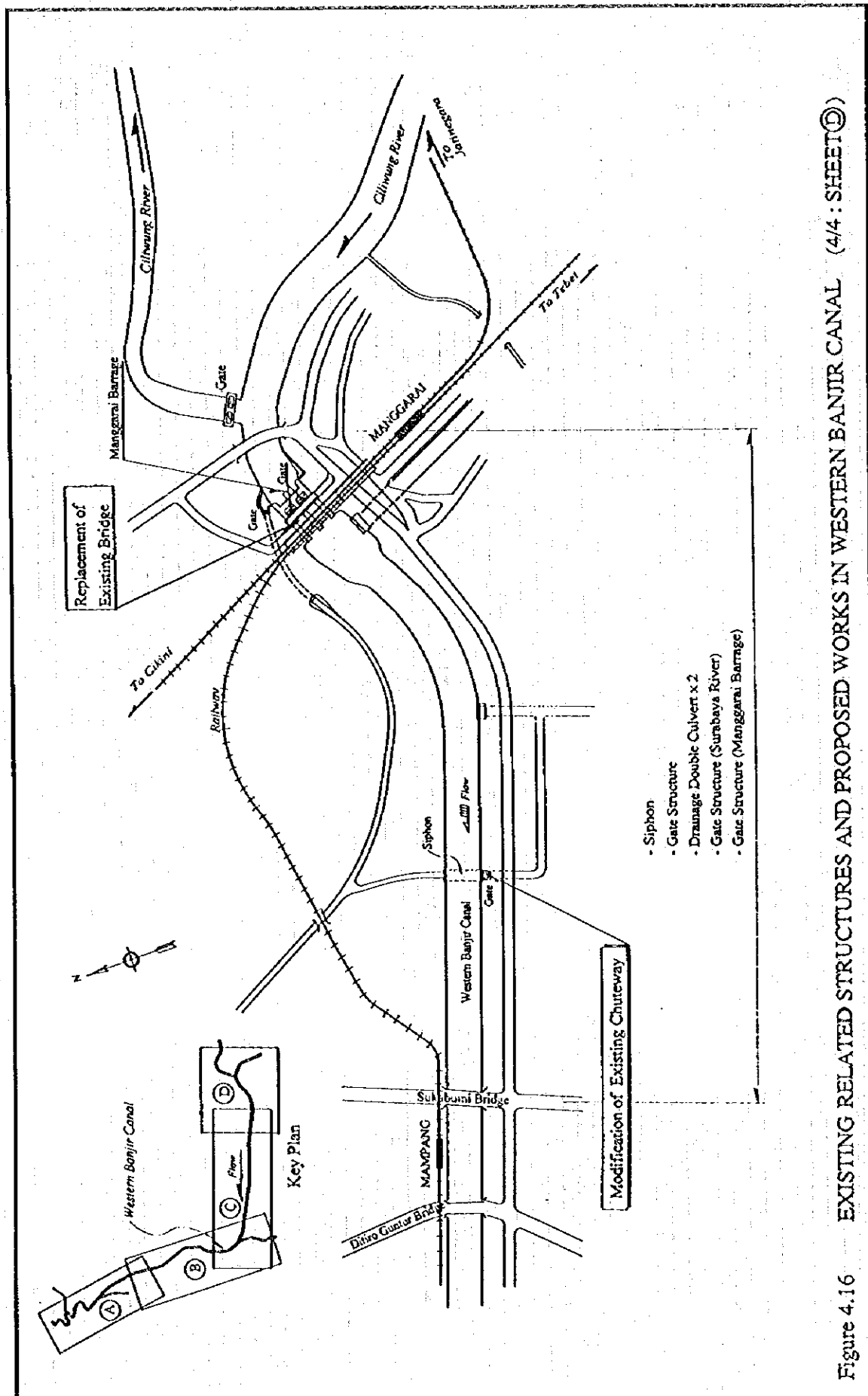


Figure 4.16 EXISTING RELATED STRUCTURES AND PROPOSED WORKS IN WESTERN BANJIR CANAL (4/4 : SHEET ④)

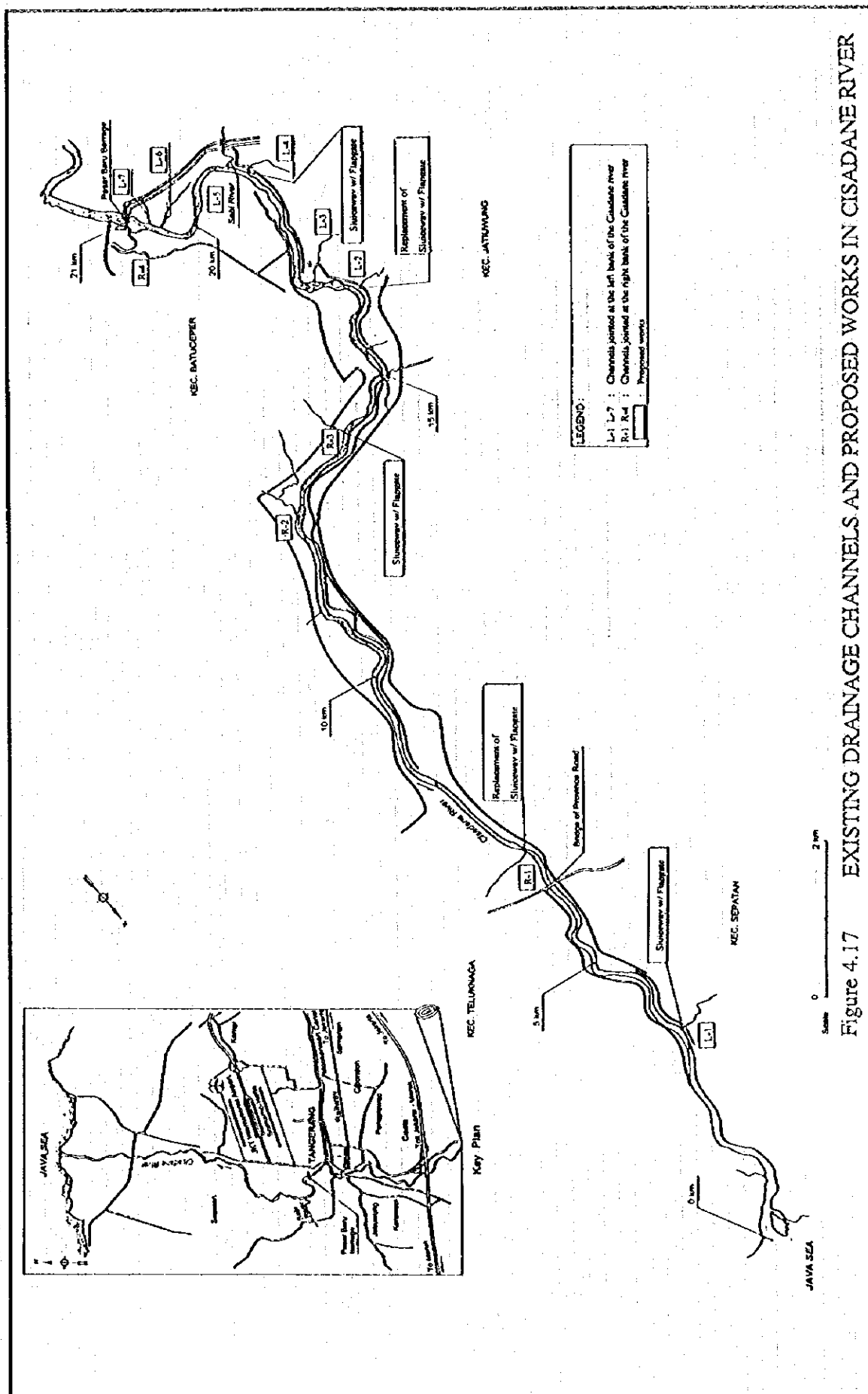


Figure 5.1 CONSTRUCTION SCHEDULE OF FIRST PHASE SCHEMES

Item/No.	Description]	2000/01	2001/02	2002/03	2003/04	2004/05
I. CISADANE RIVER						
1. RIVER CHANNEL IMPROVEMENT						
1.1	Preparatory Works					
1.2	Earth Works					
1.2.1	(1) Open-cut Excavation, 825,000 m ³					
1.2.2	(2) Backfill, 1,800 UG					
1.3	(3) Embankment for Dike, 913,000 m ³					
1.3.1	Foundation Treatment					
1.4	Concrete Works, 2,520 m ³					
2	DRAINAGE FACILITIES					
II. CILIWUNG FLOODWAY						
1	PREPARATORY WORKS					
2	Manufacturing of Shield Tunneling Machine					
3	Earth Work					
3.1	Cleaning and Snapping					
3.2	Open-cut Excavation, 283,200 m ³					
3.3	Backfill, 300 m ³					
3.4	Embankment, 32,600 m ³					
4	Foundation Treatment					
5	Concrete Works for Open Structures, 11,130m ³					
6	Shield Tunneling Work					
6.1	Starting Base					
6.2	U-turn Base					
6.3	Temporary Works for Tunneling Works					
6.4	Tunnel Excavation and Initial Tunnel Lining, 136,600 m ³					
6.5	Second Lining with Concrete, 15,100m ³					
7	Suspension Bridge, 1.5 mW x 4.0 mL					
	Road Works					

Figure 5.2 CONSTRUCTION SCHEDULE OF SECOND PHASE SCHEME

Item No.	Description	2004/05	2005/06	2006/07	2007/08	2008/09
1	WESTERN BANJIR CANAL	A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M	A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M	A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M	A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M	A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M
1	RIVER CHANNEL IMPROVEMENT					
1.1	Preparatory Works					
1.2	Earth Works					
	1) Open-cut Excavation, 1,357,100 m ³					
	2) Backfill, 1,300 m ³					
	3) Demolition of Concrete, 26,920 m ³					
	4) Embankment for dike, 110,600 m ³					
1.3	Foundation Treatment					
1.4	Concrete Works, 12,990 m ³					
1.5	Bridge Works					
1.6	Road Works					
1.7	Metal Works					
2	MANGGARAI BARRAGE					
2.1	Preparatory Works					
2.2	Earth Works					
	1) Open-cut Excavation, 10,200 m ³					
	2) Backfill, 5,000 m ³					
	3) Demolition of Concrete, 170 m ³					
	4) Embankment for dike, 4,500 m ³					
2.3	Foundation treatment					
2.4	Concrete Works, 6,020 m ³					
2.5	Road Works					
2.6	Metal Works					
3	RELATED STRUCTURES					
3.1	Preparatory Works					
3.2	Earth Works					
	1) Open-cut Excavation, 120 m ³					
	2) Backfill, 110 m ³					
	3) Demolition of Concrete, 40 m ³					
	4) Embankment for dike, 40 m ³					
3.3	Foundation Treatment					
3.4	Concrete Works, 165 m ³					
3.5	Road Works					
3.6	Metal Works					

Figure 5.3 IMPLEMENTATION SCHEDULE OF THE PROJECT

No.	Description	1999/97	1997/96	1996/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
I.	FEASIBILITY STUDY													
II.	1ST PHASE WORKS													
2.1	Final Arrangement and Selection of Consultant													
2.2	Detailed Design and Construction Supervision													
1)	Additional Investigation													
2)	Detailed Design													
3)	Construction Supervision													
2.3	Land Acquisition/Compensation													
1)	Caudene River													
2)	Climbing Floodway													
2.4	Selection of Contractor													
1)	Caudene River													
2)	Climbing Floodway													
2.5	Construction Works													
1)	Mobilization													
2)	Caudene River													
3)	Climbing Floodway													
III.	2ND PHASE WORKS													
3.1	Final Arrangement and Selection of Consultant													
3.2	Detailed Design and Construction Supervision													
1)	Additional Investigation													
2)	Detailed Design													
3)	Construction Supervision													
3.4	Land Acquisition/Compensation													
1)	Western Banjir Canal													
3.5	Selection of Contractor													
1)	Western Banjir Canal													
3.6	Construction Works													
1)	Mobilization													
2)	Western Banjir Canal													

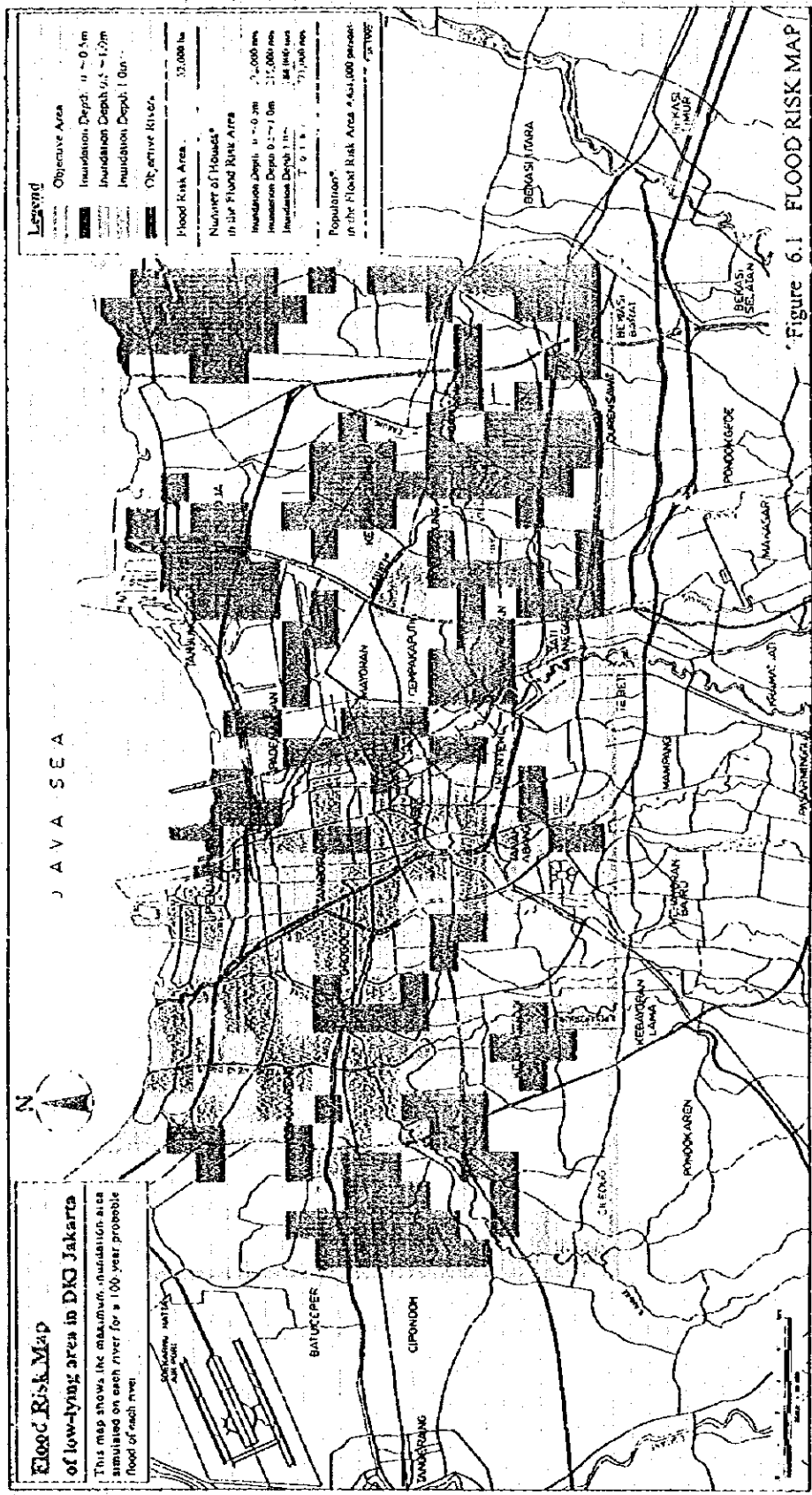
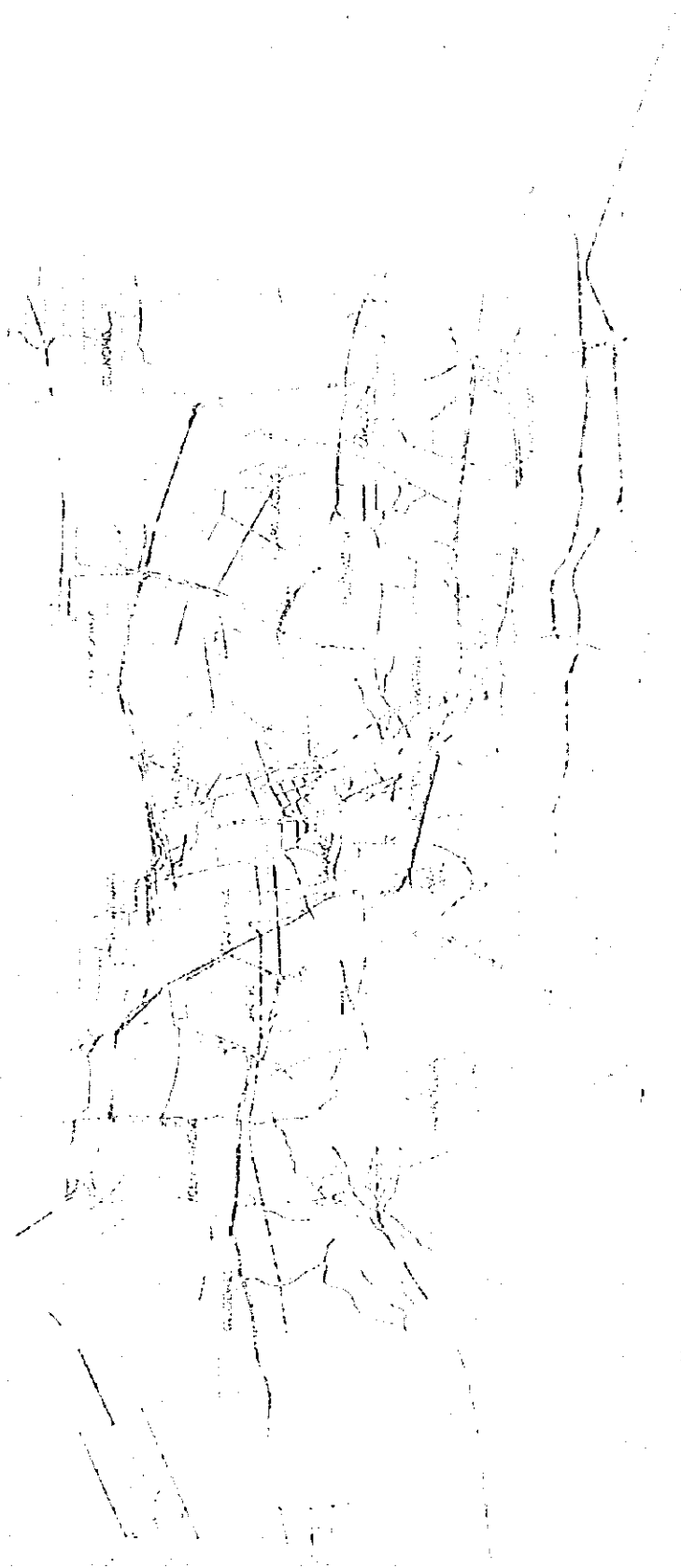


Figure 6.1 FLOOD RISK MAP
 THE STUDY FOR COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JAKARTA, 2002

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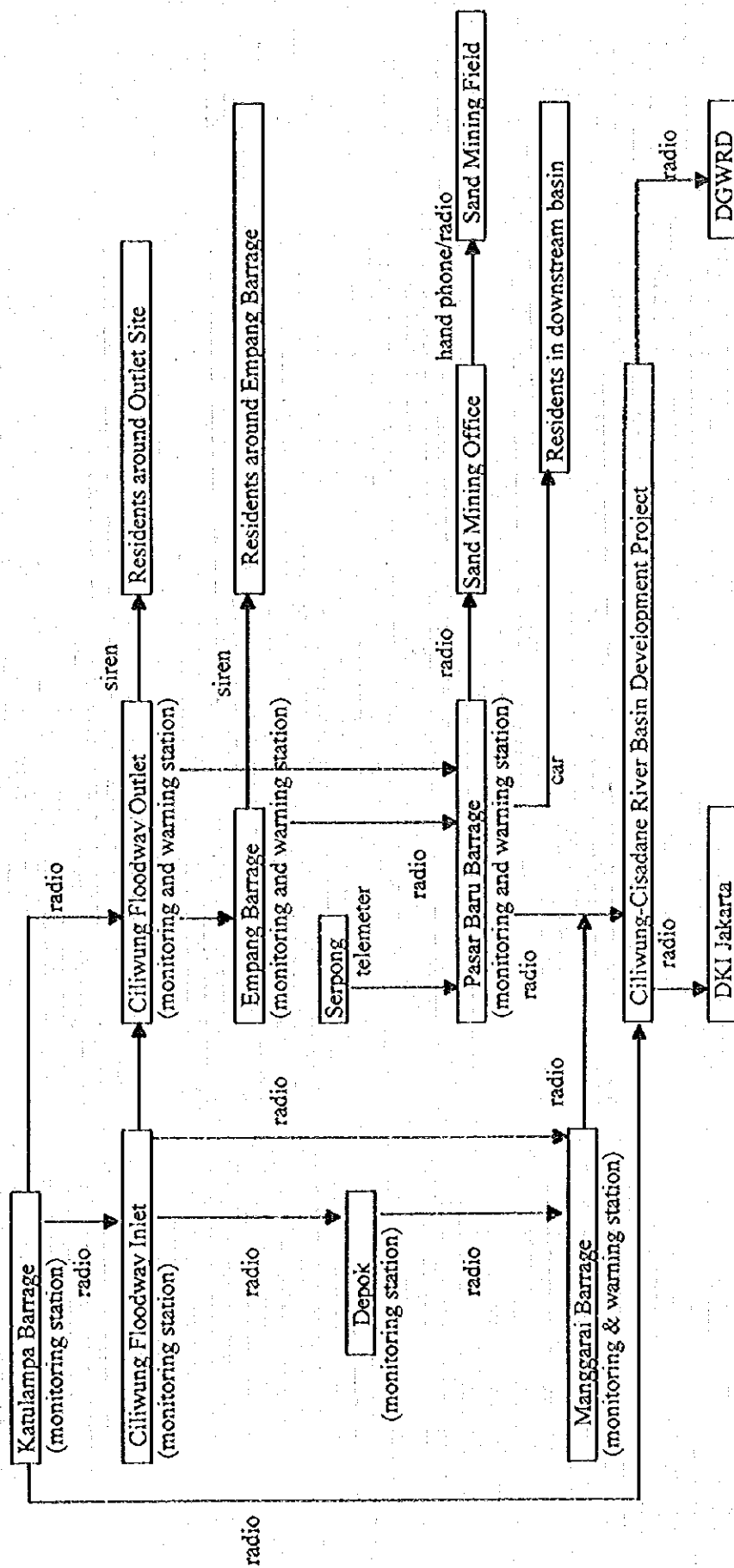
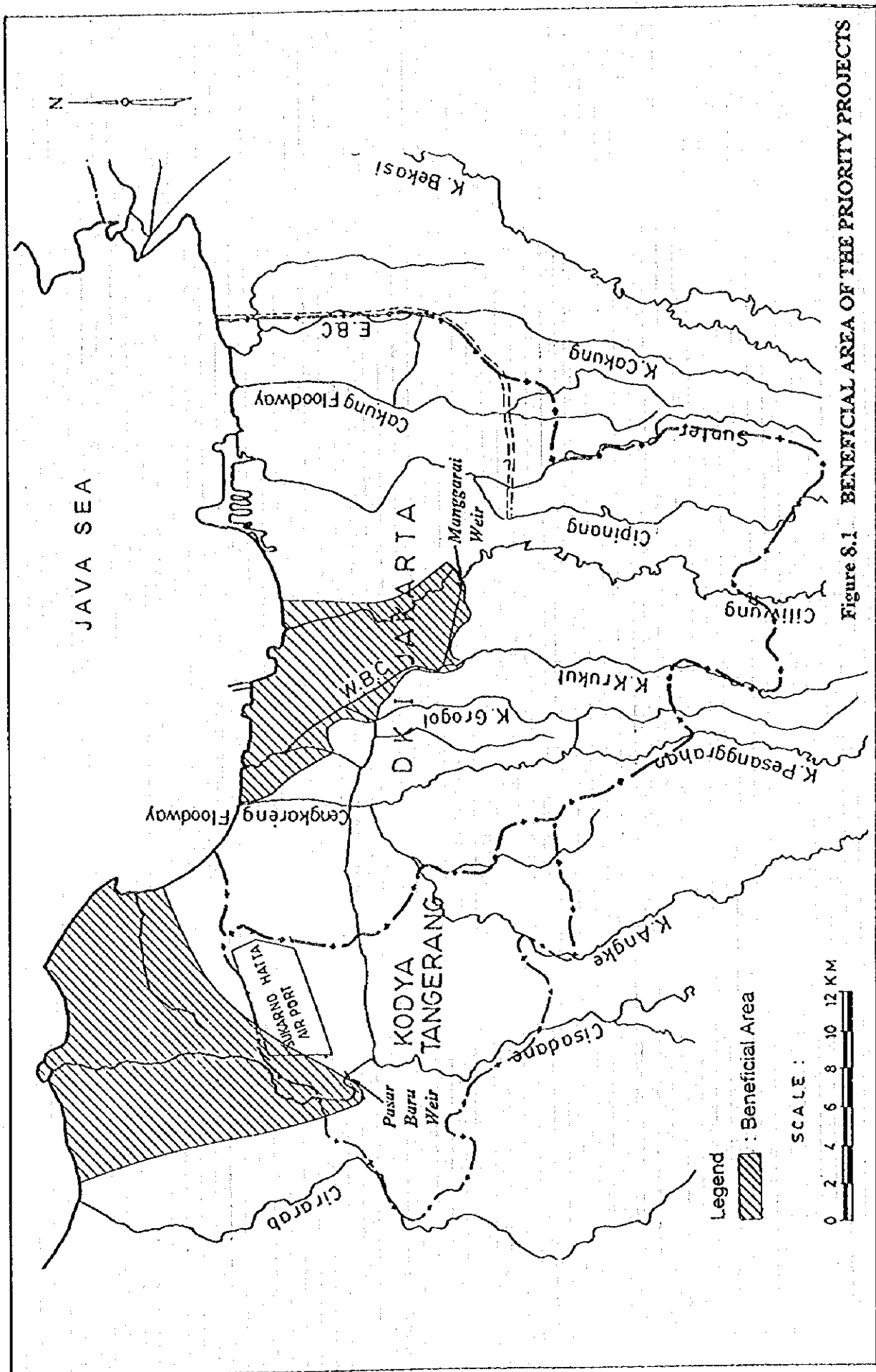


Figure 6.2 PROPOSED FLOOD WARNING INFORMATION NETWORK



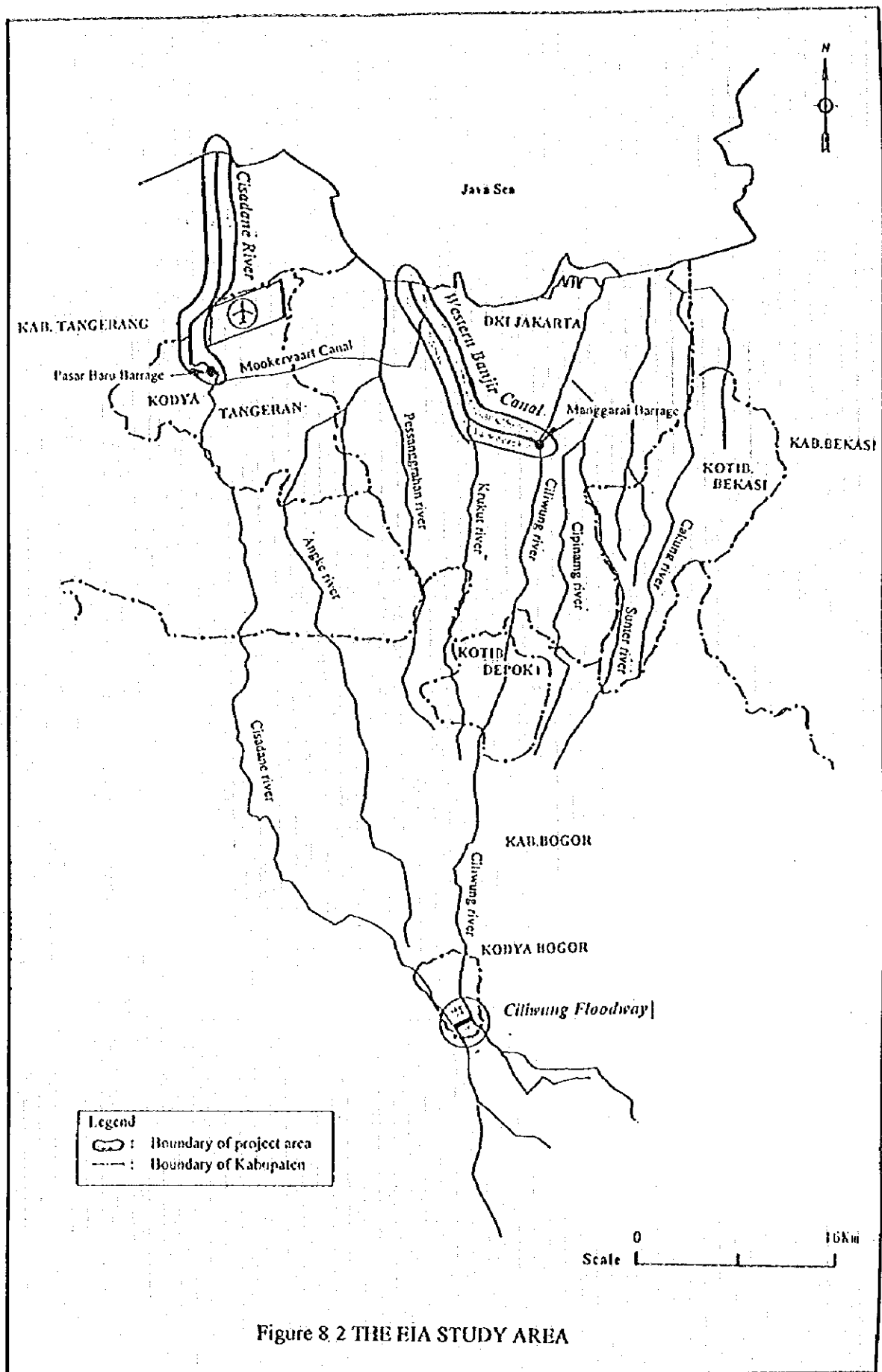


Figure 8.2 THE EIA STUDY AREA

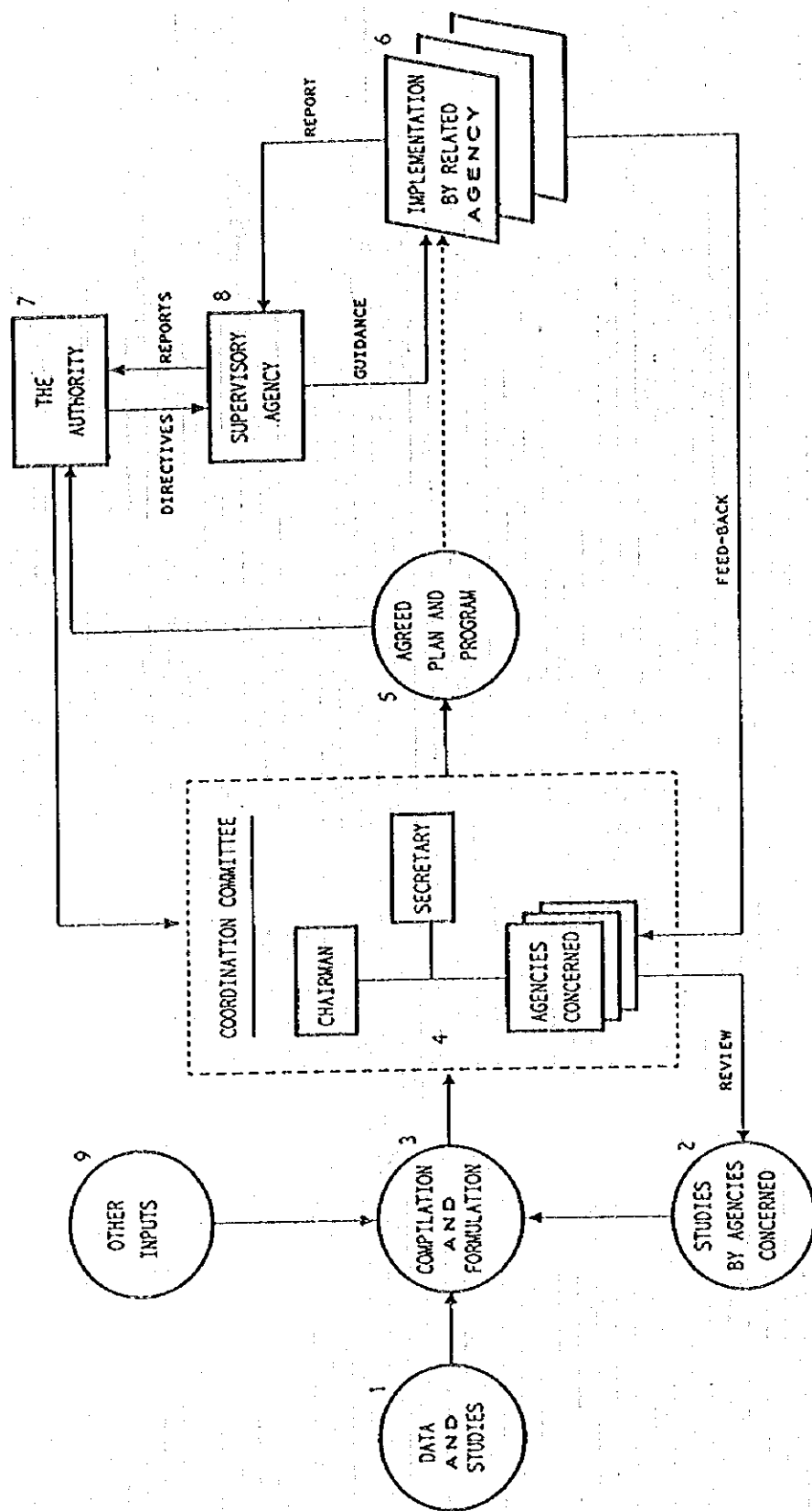


Figure 9.1 CHART OF
COORDINATION PROCEDURE
(Gov. Reg. No. 22/1982, Art.-8)



JICA