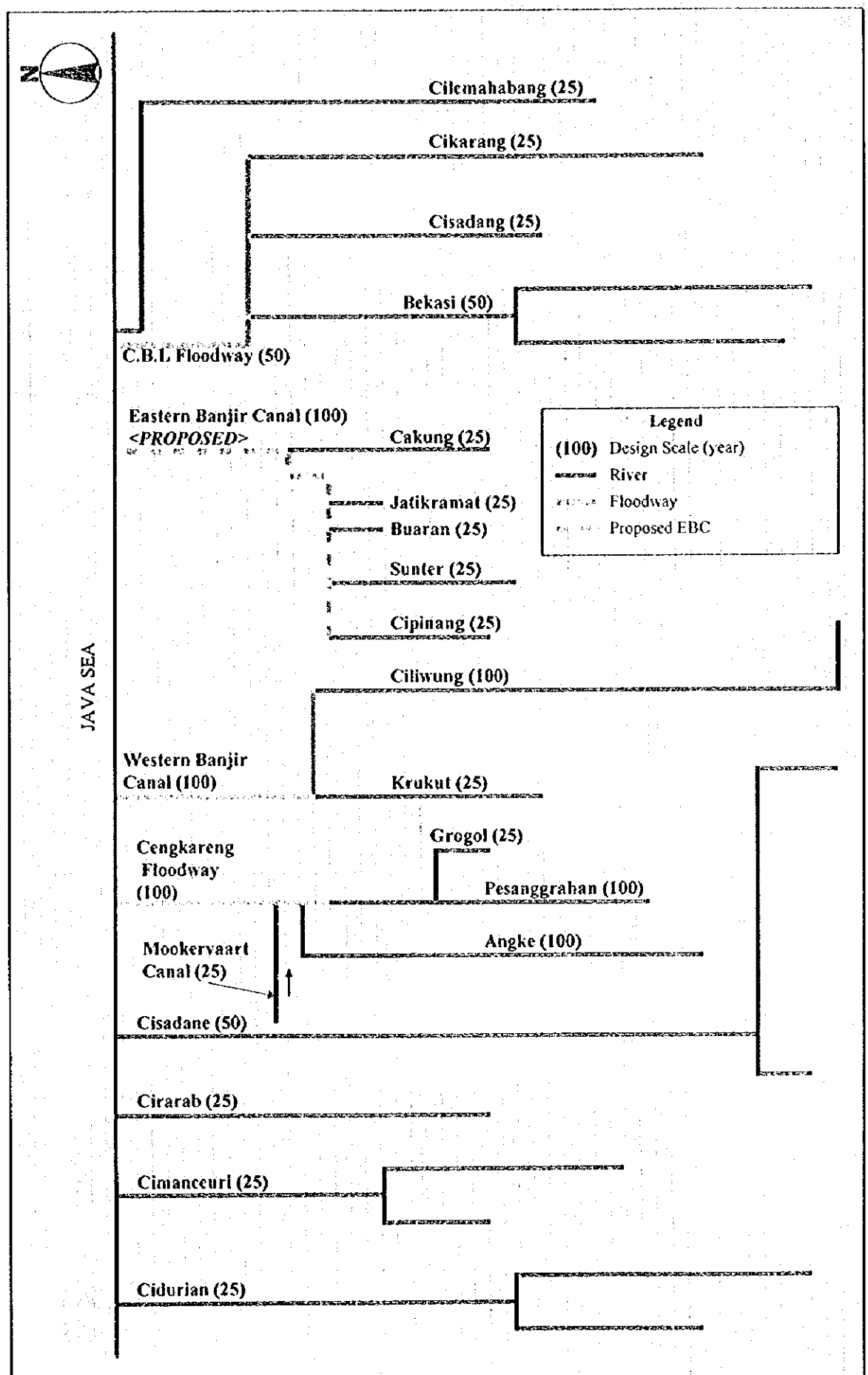


Figure 4.1 DESIGN SCALES FOR FLOOD CONTROL MASTER PLAN

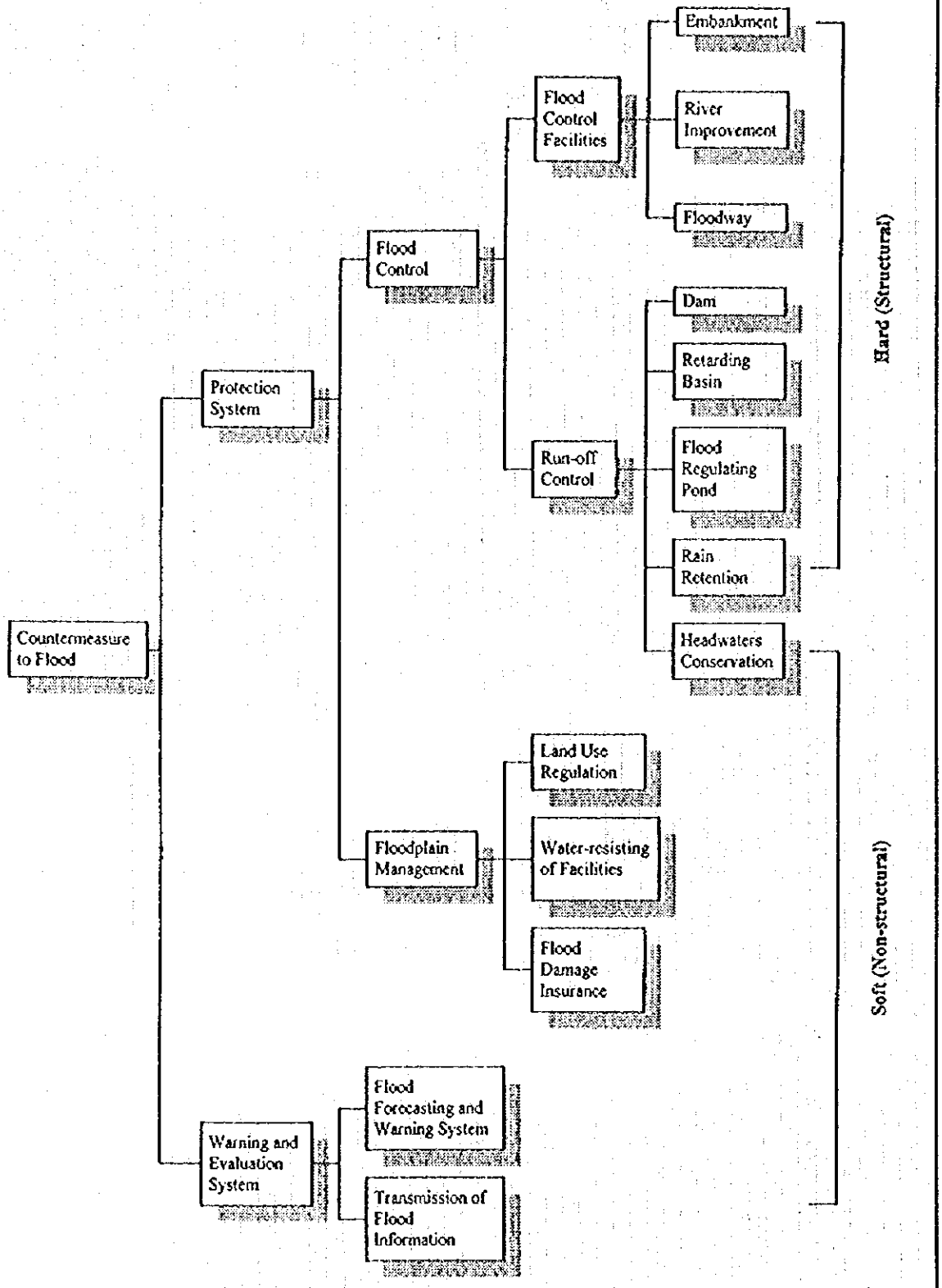


Figure 4.2 CONCEPT OF COMPREHENSIVE FLOOD CONTROL

Figure 4.3
ZONING OF BASIN BY FLOOD CONTROL FUNCTION

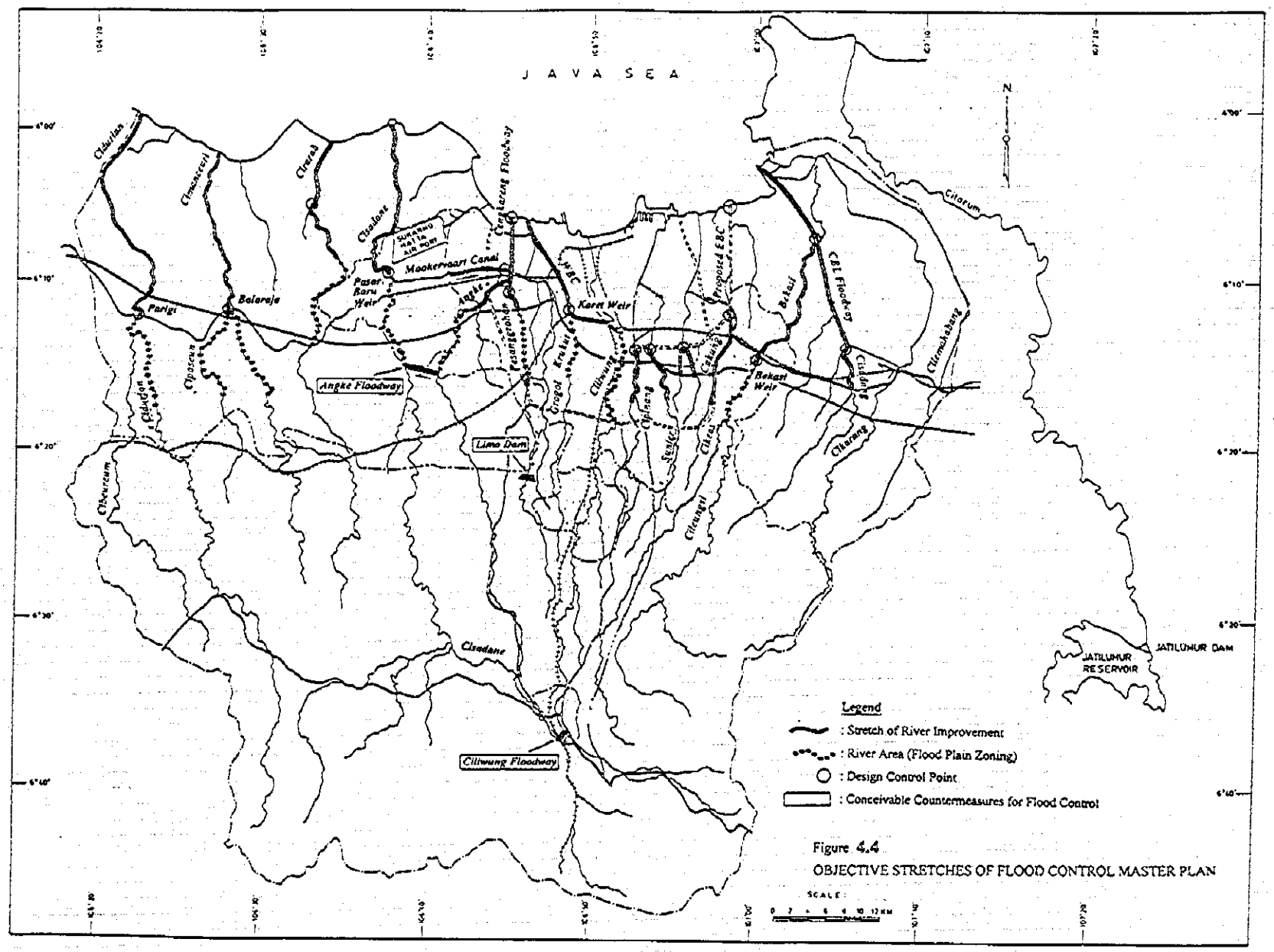


Figure 4.4
OBJECTIVE STRETCHES OF FLOOD CONTROL MASTER PLAN

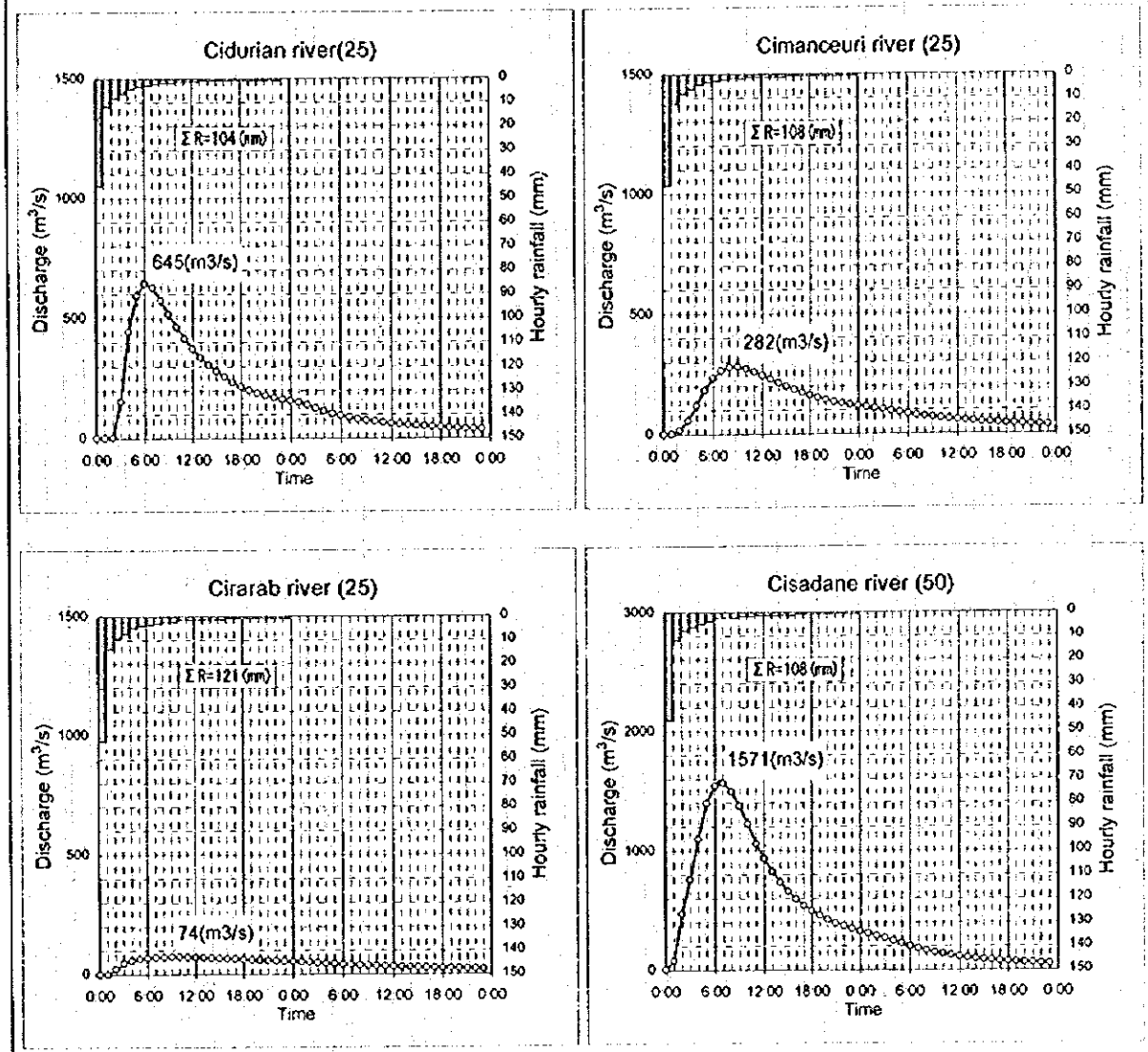


Figure 4.5 PROBABLE FLOOD RUNOFF (1/5)

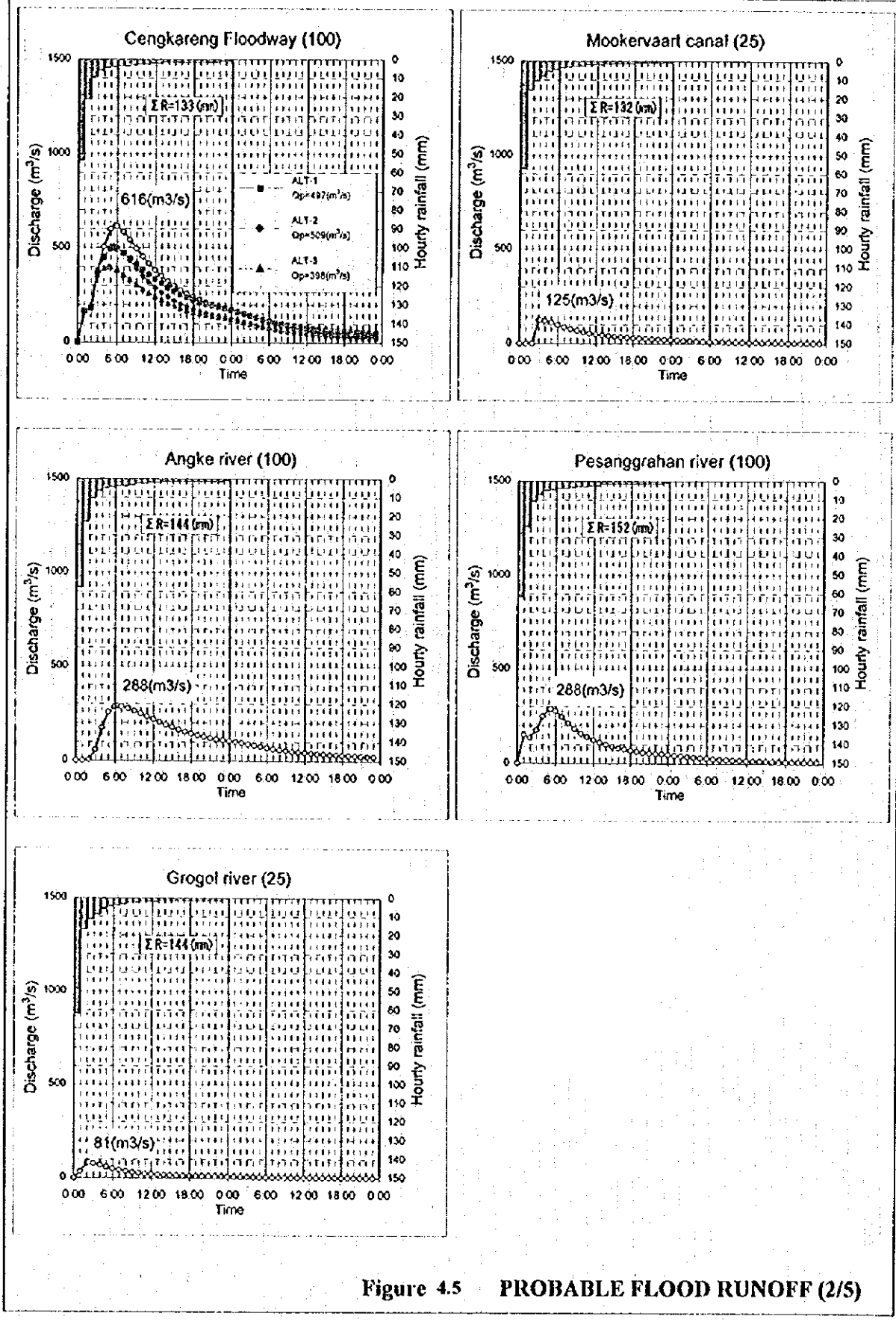
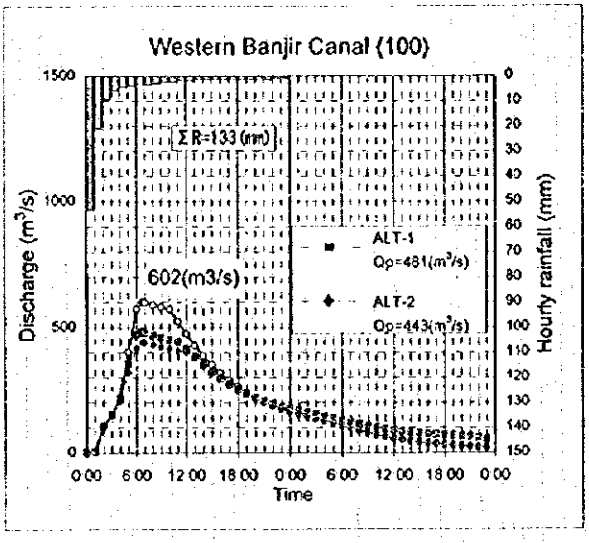
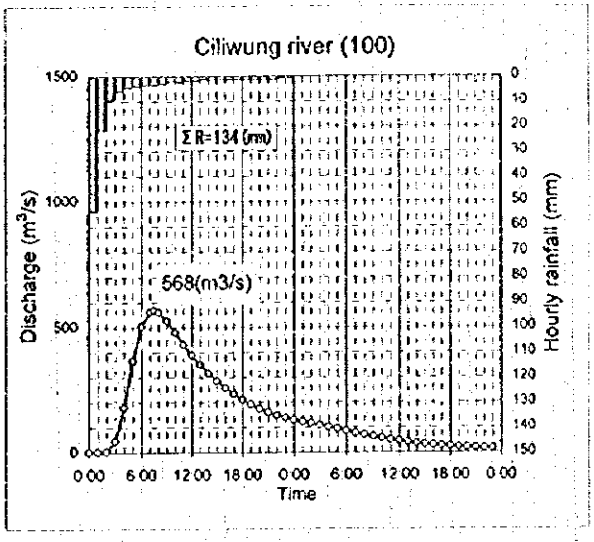


Figure 4.5 PROBABLE FLOOD RUNOFF (2/5)





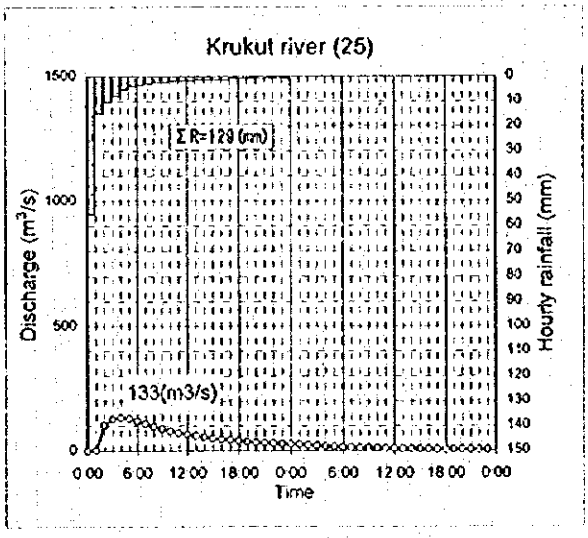


Figure 4.5 PROBABLE FLOOD RUNOFF (3/5)

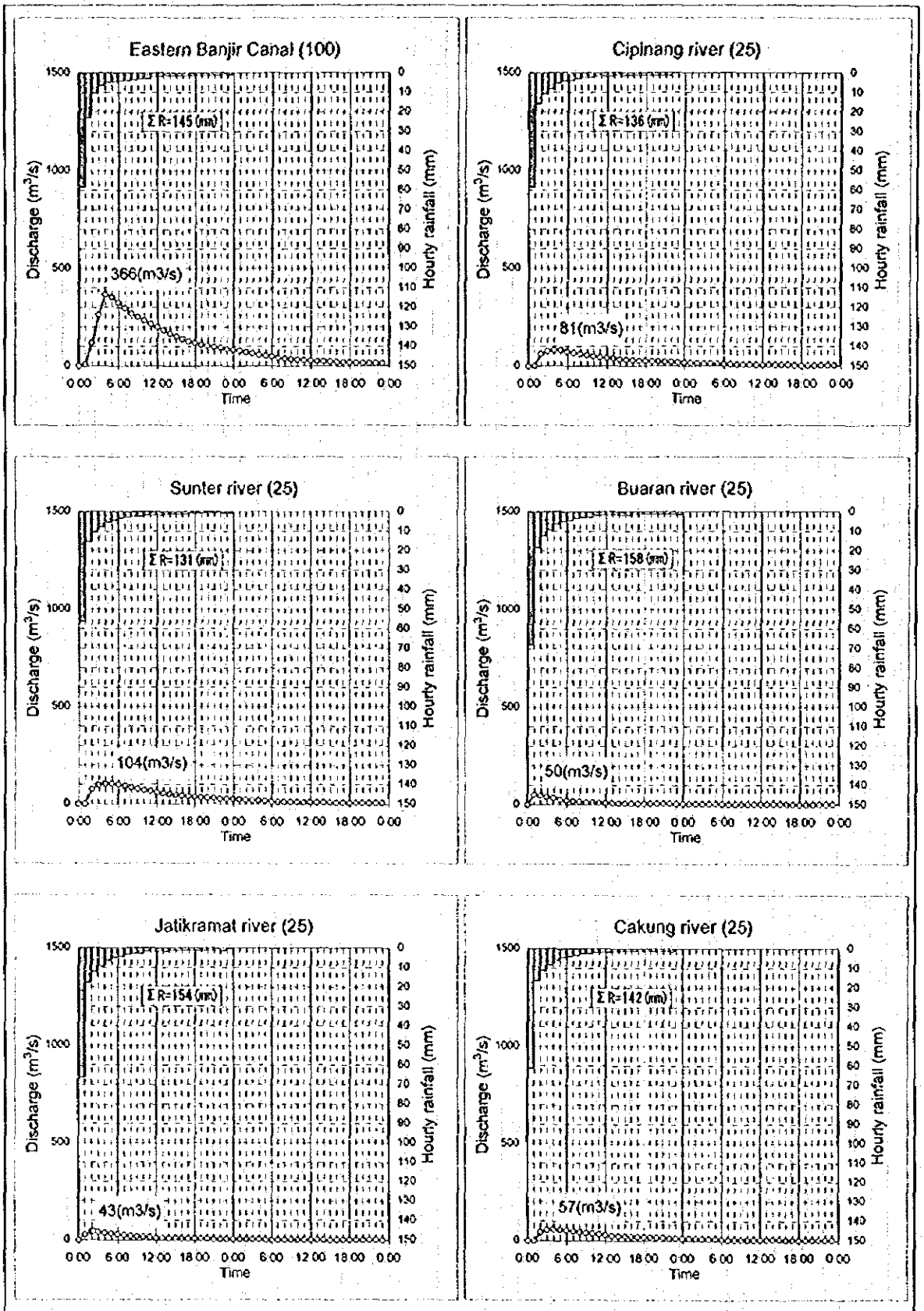


Figure 4.5 PROBABLE FLOOD RUNOFF (4/5)

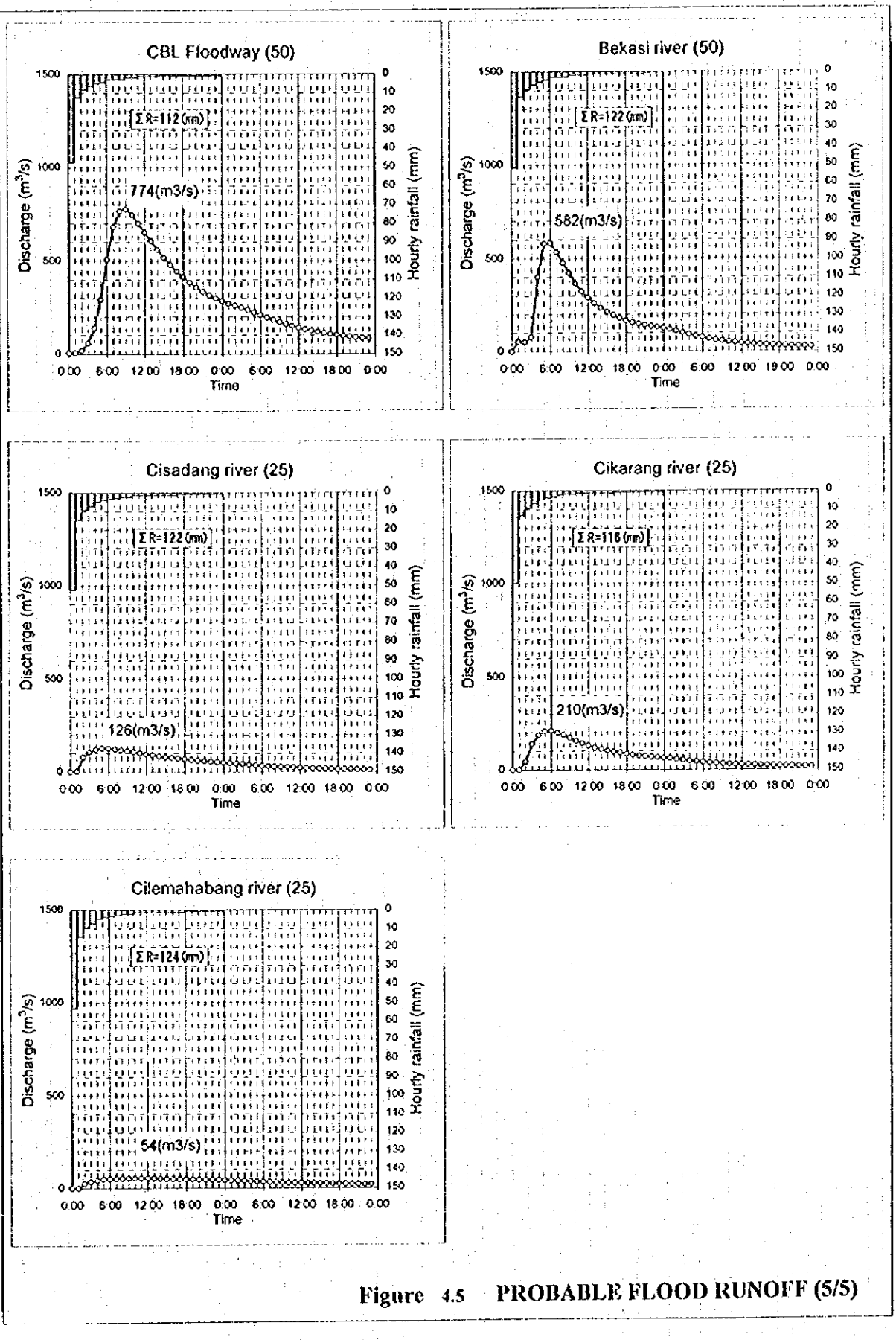


Figure 4.5 PROBABLE FLOOD RUNOFF (5/5)

Design discharge

River system	Design control point	Design scale (year)	Design 1-day rainfall (mm)	Catchment area (km^2)	Design discharg (m^3/s)	Specific dischareg ($m^3/s/km^2$)
Cidurian river	parigi	25	104	596	650	1.09
Cimanceuri river	Balaraja	25	108	415	290	0.70
Cirarab river	(Road bridge)	25	121	147	75	0.51
Cisadane river	Pasar Baru Weir	50	108	1,248	1,600	1.28
Cengkareng Floodway system	Cengkareng Weir	100	133	459	620	1.35
Mookervaart Canal	the conflence with Cengkareng Floodway	25	132	67	125	1.87
Angke river	the conflence with Cengkareng Floodway	100	144	224	290	1.29
Pesanggrahan river	the conflence with Cengkareng Floodway	100	152	137	290	2.12
Grogol river	Pondok Pinang Weir	25	144	30	85	2.83
Western Banjir Canal system	Karet Weir	100	134	421	670	1.59
Ciliwung river	Manggrai Weir	100	134	337	570	1.69
Krukut river	Before the conflence with W.B.C.	25	129	84	135	1.61
Eastern Banjir Canal System	After the conflence with Cikarang river	100	145	207	370	1.79
Cipinang river	Before the conflence with E.B.C.	25	136	50.5	85	1.68
Sunter river	Before the conflence with E.B.C.	25	131	73.1	105	1.44
Buaran river	Before the conflence with E.B.C.	25	158	13.0	50	3.85
Jatikramat river	Before the conflence with E.B.C.	25	154	16.5	45	2.73
Ckakung river	Before the conflence with E.B.C.	25	142	34.5	60	1.74
CBL Floodway system	After the conflence with Bekasi river	50	112	877	780	0.89
Bekasi river	Bekasi Weir	50	122	389	590	1.52
Cisadang river	Before the conflence with CBL Floodway	25	122	135	130	0.96
Cikarang river	Cikarang Weir	25	116	216	210	0.97
Cilemahabang river	(Road bridge)	25	124	121	55	0.45

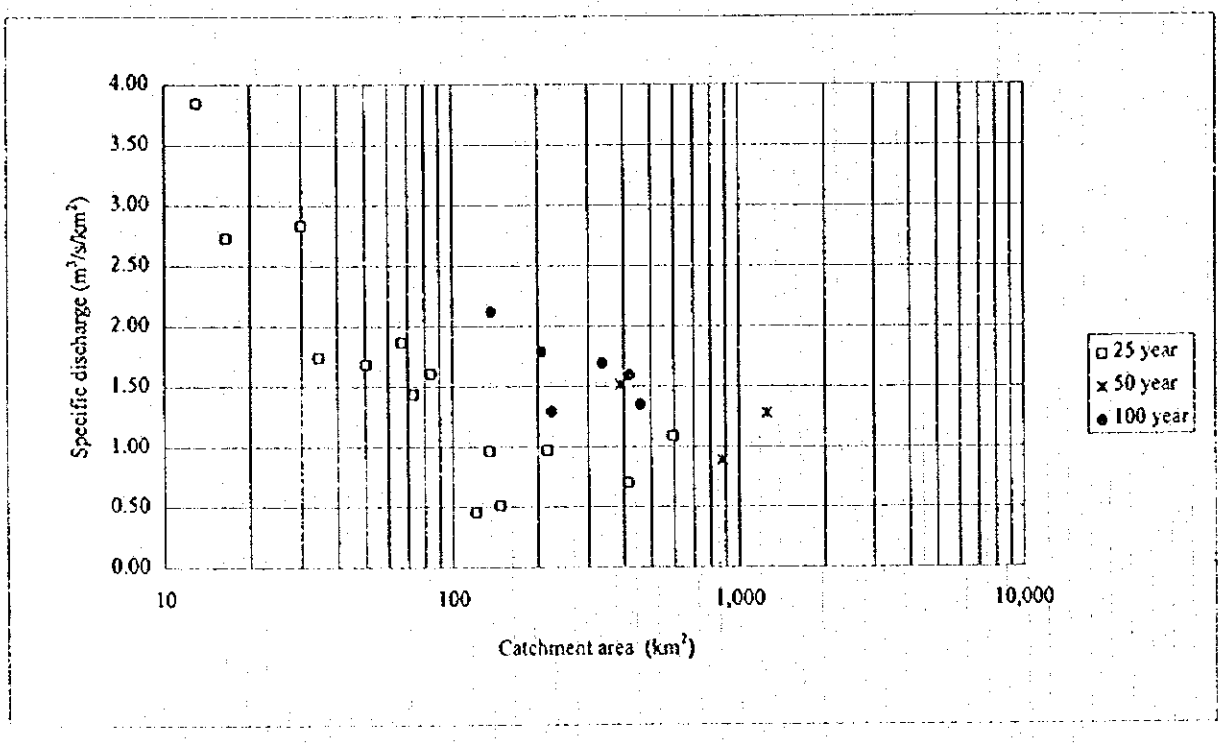


Figure 4.6 PROBABLE FLOOD PEAK

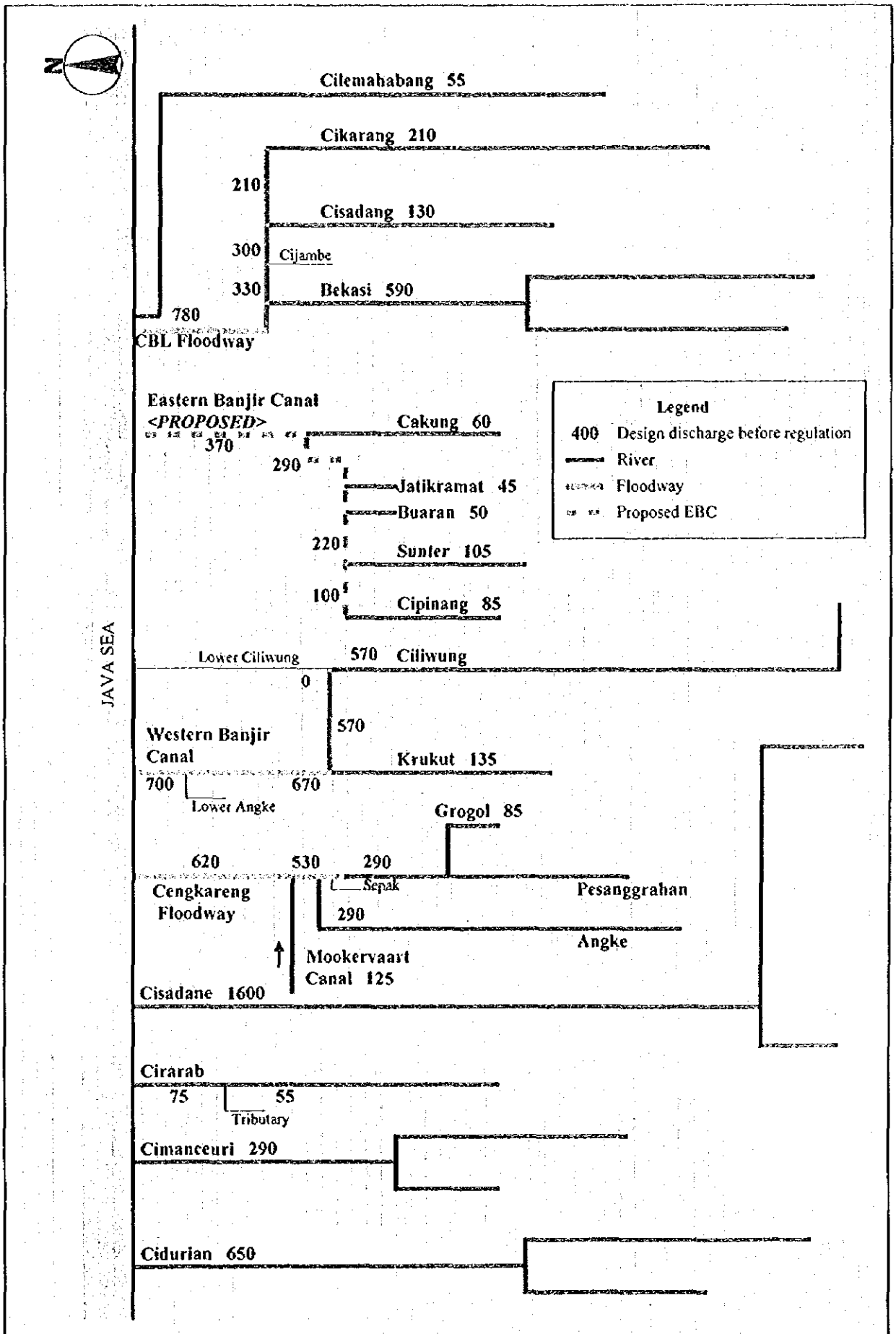


Figure 4.7 DESIGN DISCHARGE BEFORE REGULATION

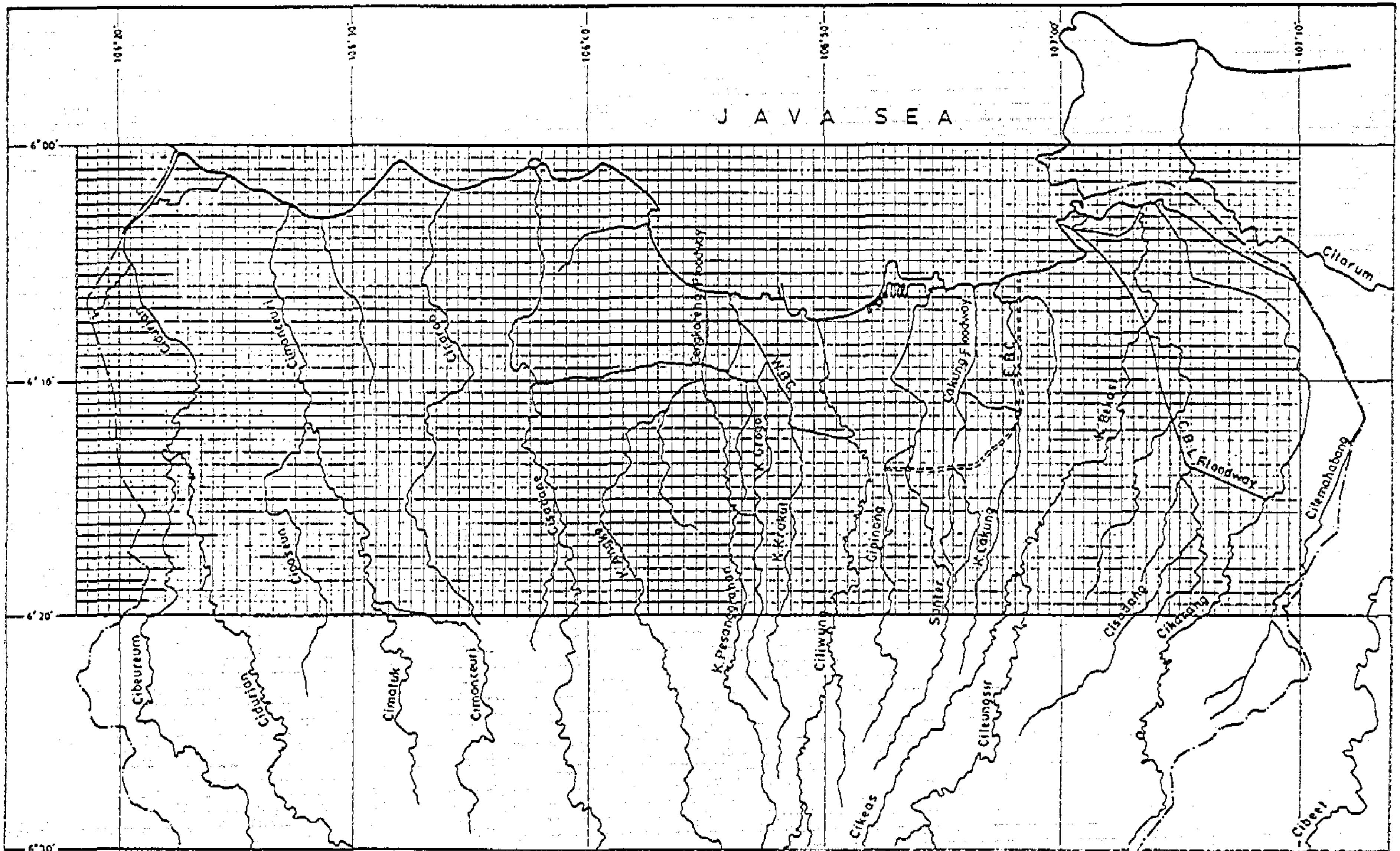


Figure 4.8 MESH BLOCK FOR FLOODING-MODEL

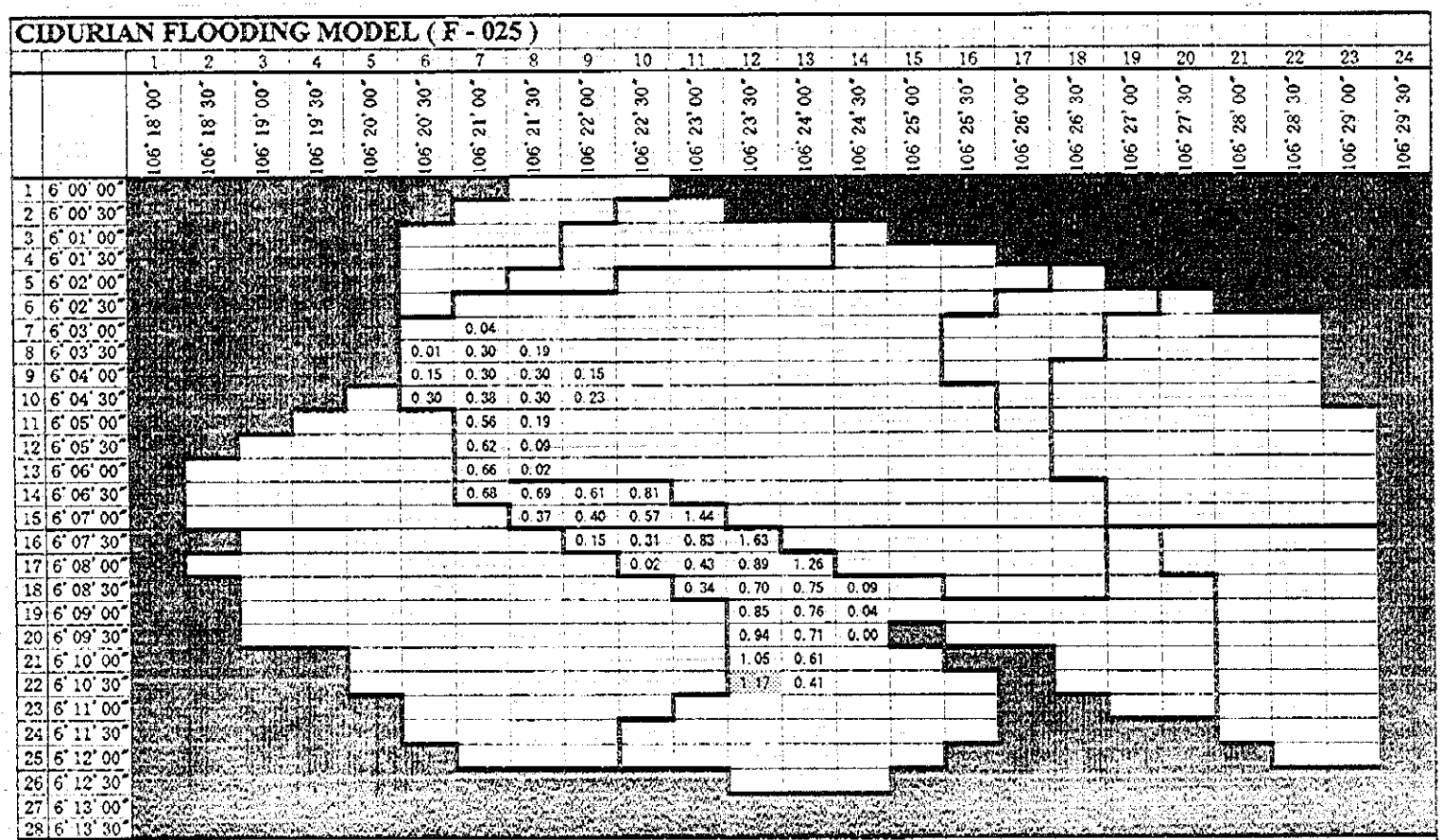


Figure 4.9 MAXIMUM INUNDATION DEPTH (1/8)

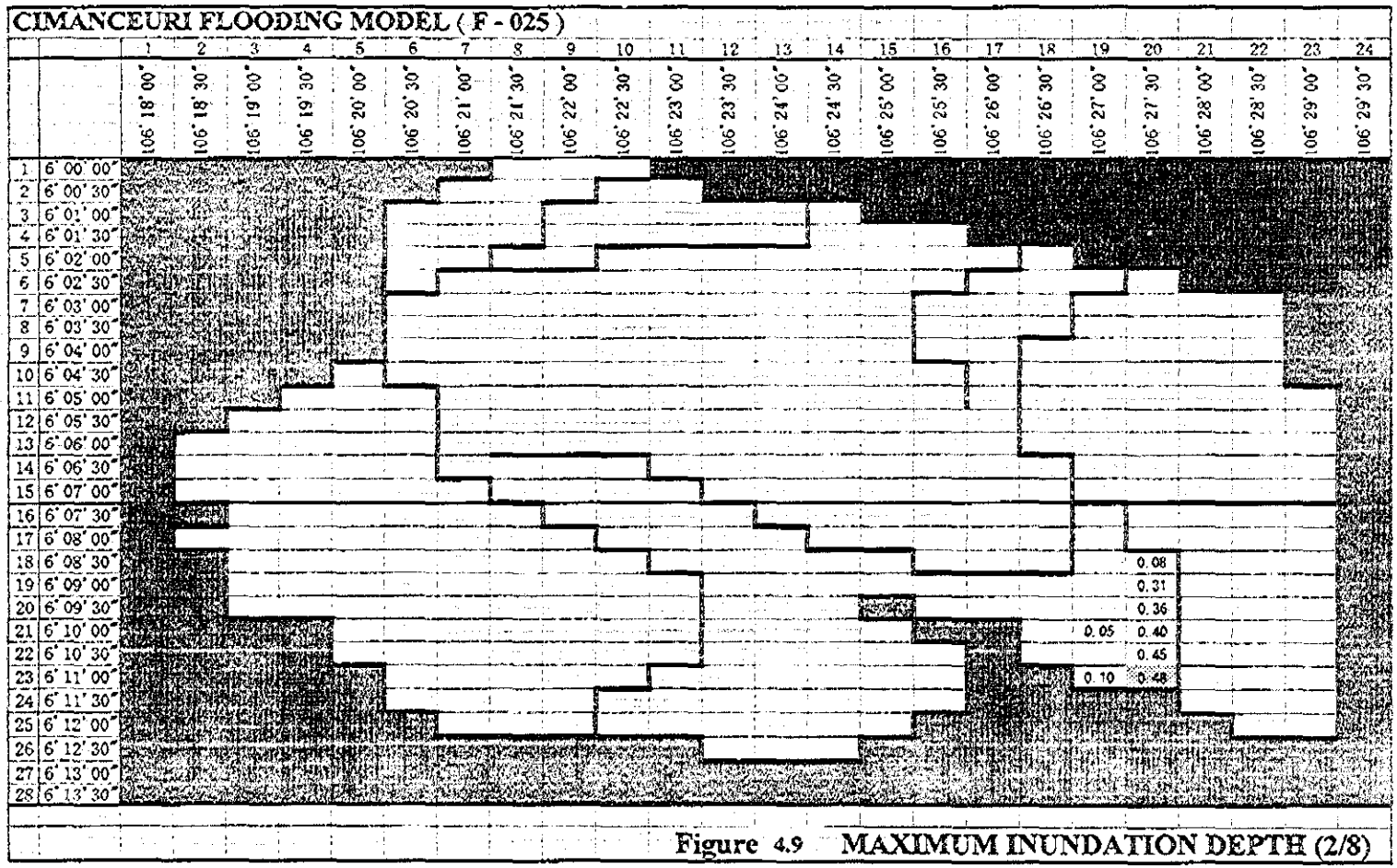


Figure 4.9 MAXIMUM INUNDATION DEPTH (2/8)

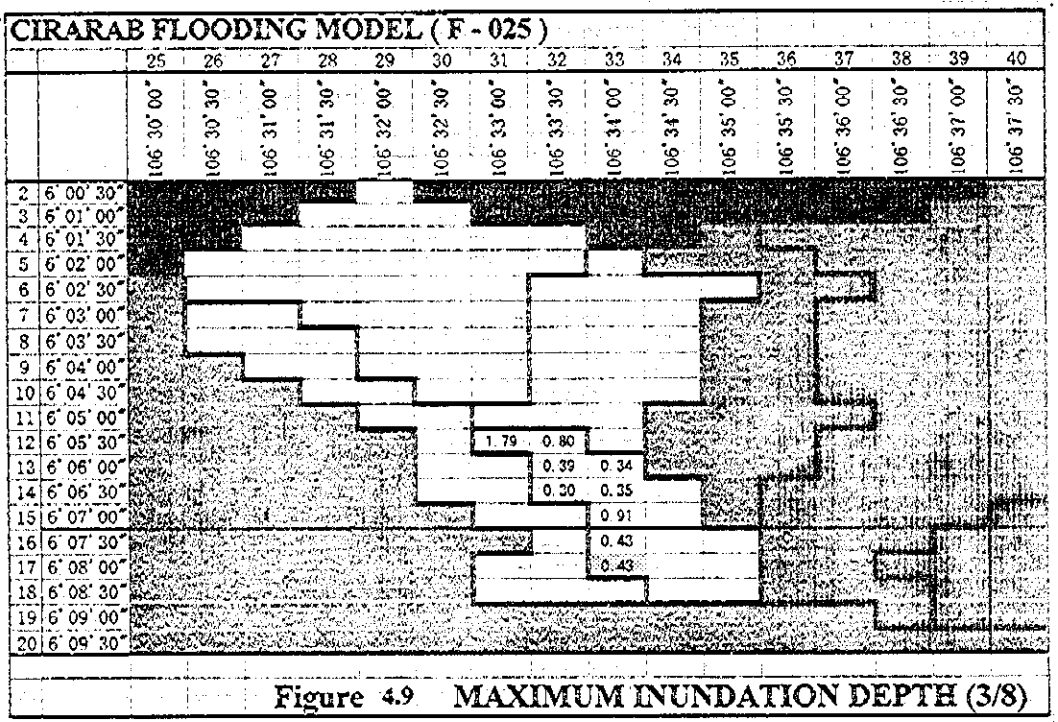


Figure 4.9 MAXIMUM INUNDATION DEPTH (3/8)

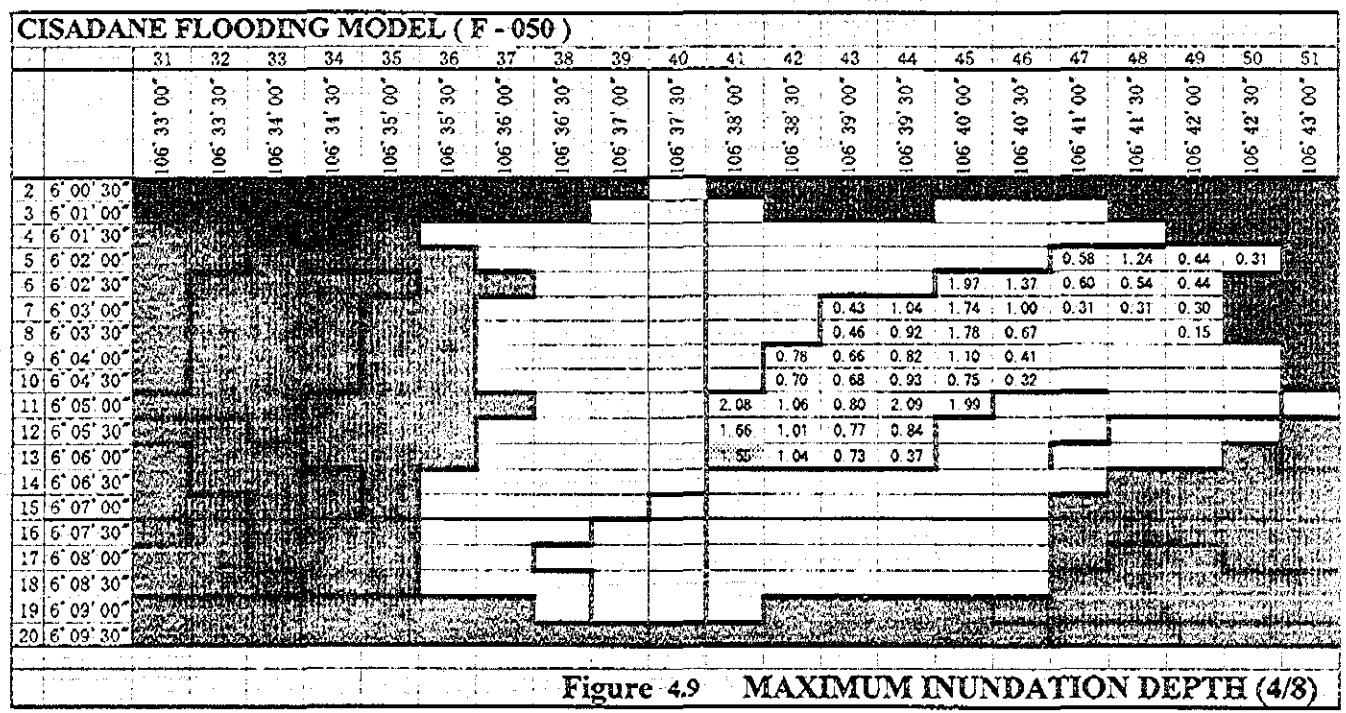


Figure 4.9 MAXIMUM INUNDATION DEPTH (4/8)

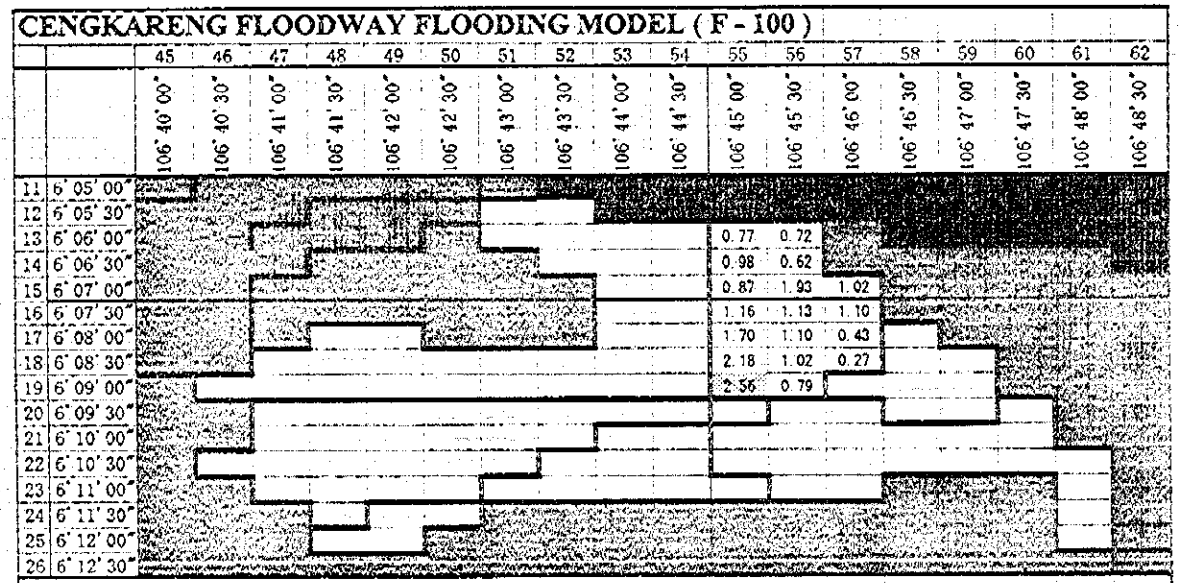


Figure 4.9 MAXIMUM INUNDATION DEPTH (5/8)

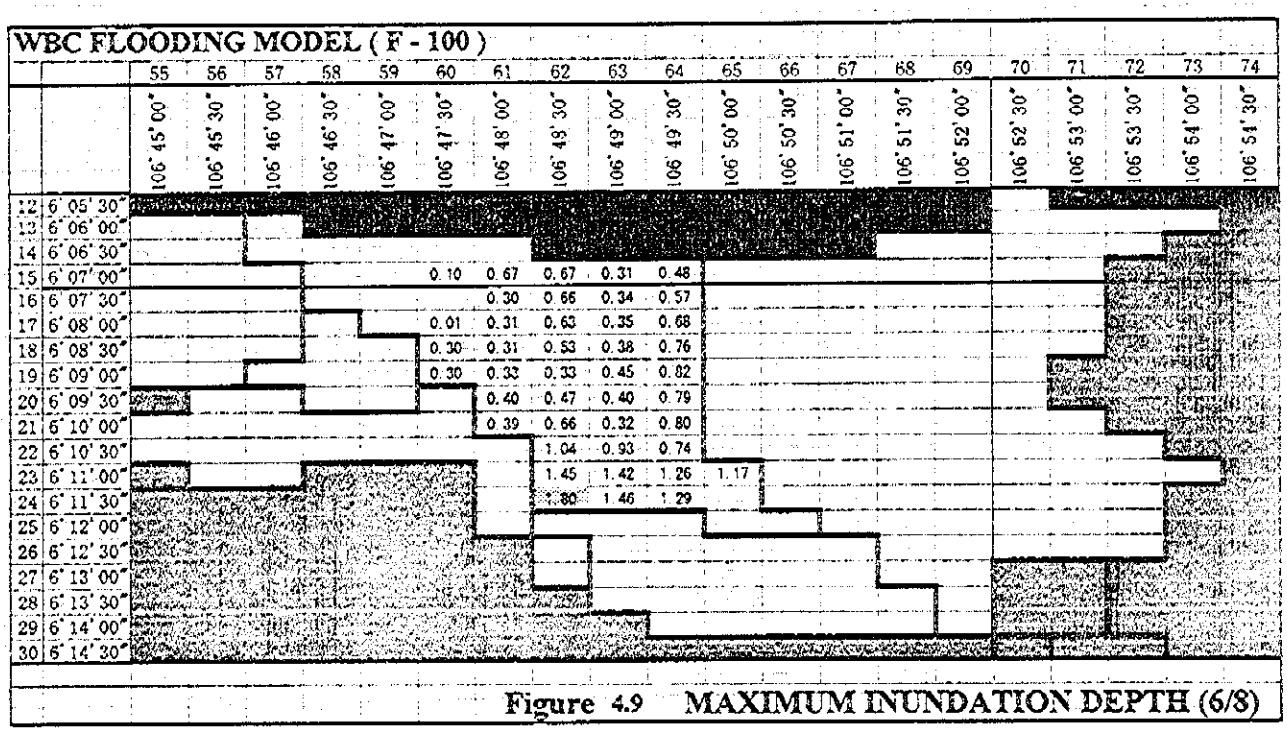


Figure 4.9 MAXIMUM INUNDATION DEPTH (6/8)

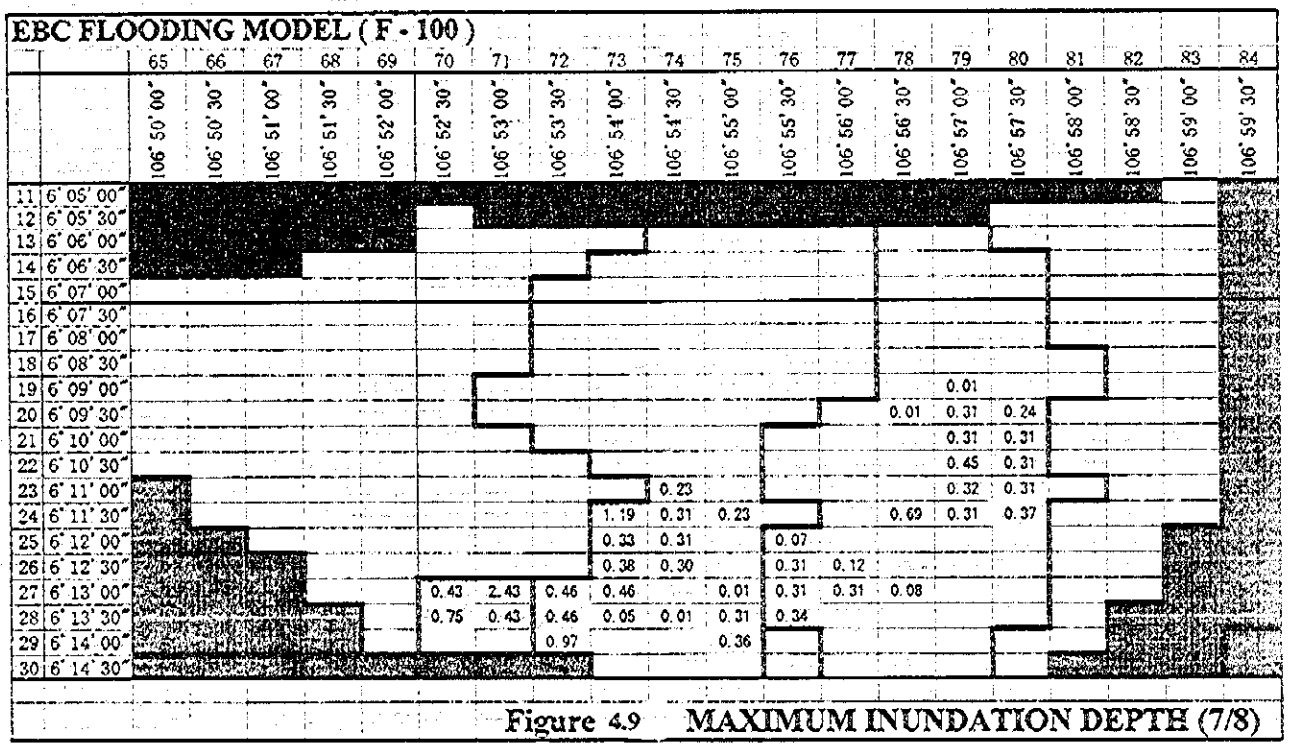


Figure 4.9 MAXIMUM INUNDATION DEPTH (7/8)

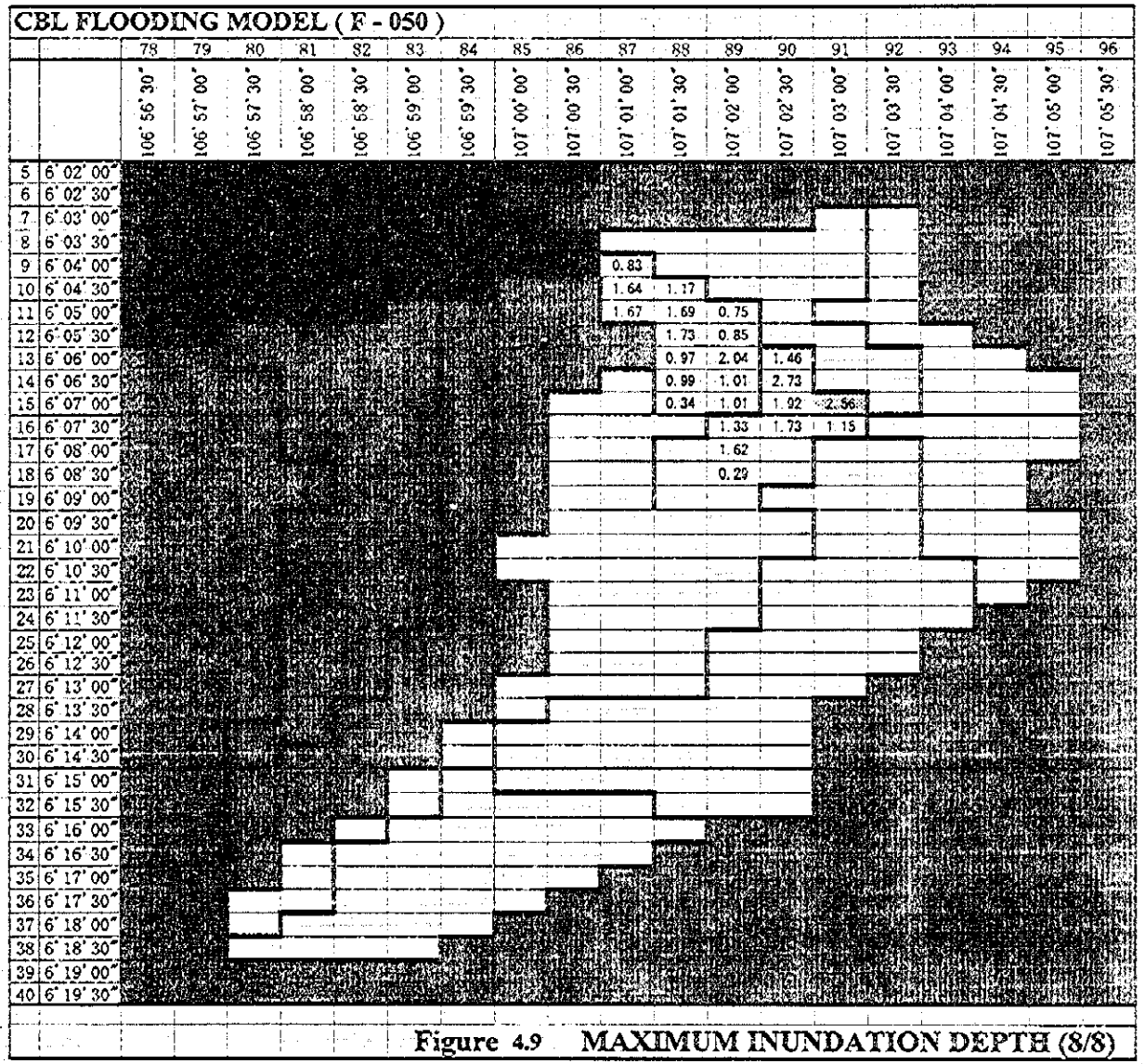


Figure 4.9 MAXIMUM INUNDATION DEPTH (8/8)

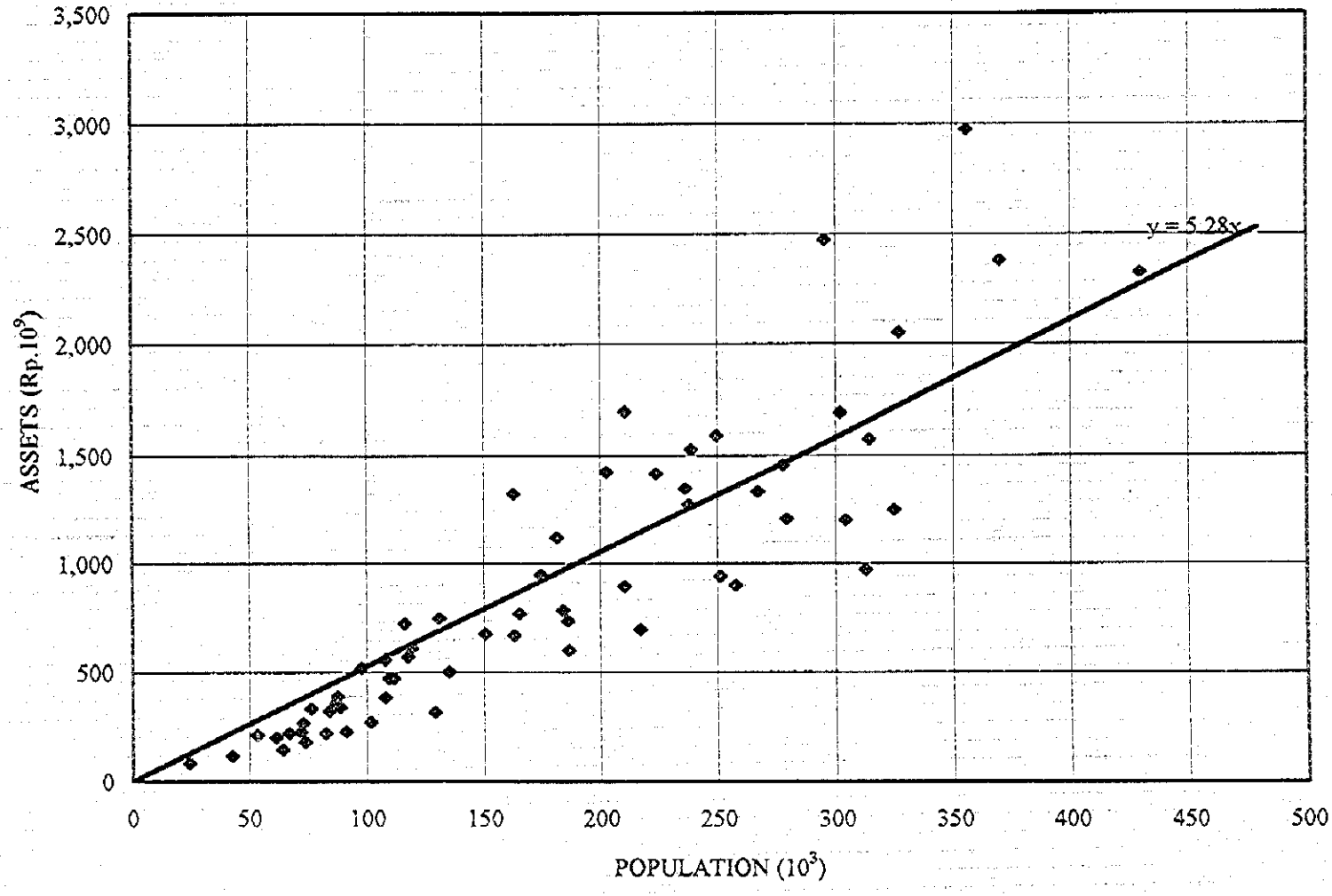


Figure 4.10 CORRELATION BETWEEN POPULATION AND ASSETS OF KECAMATANS IN FLOOD PRONE AREA

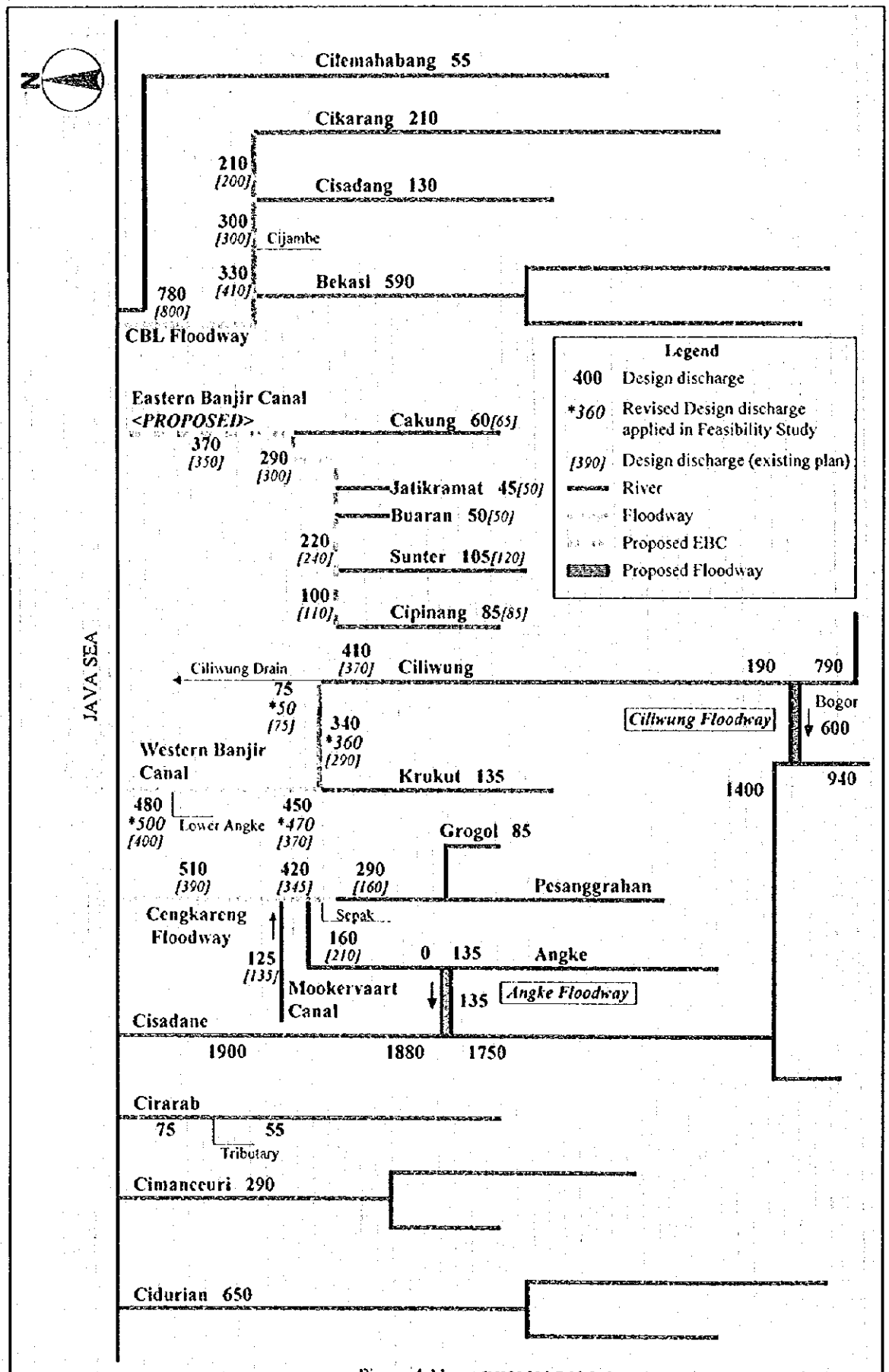
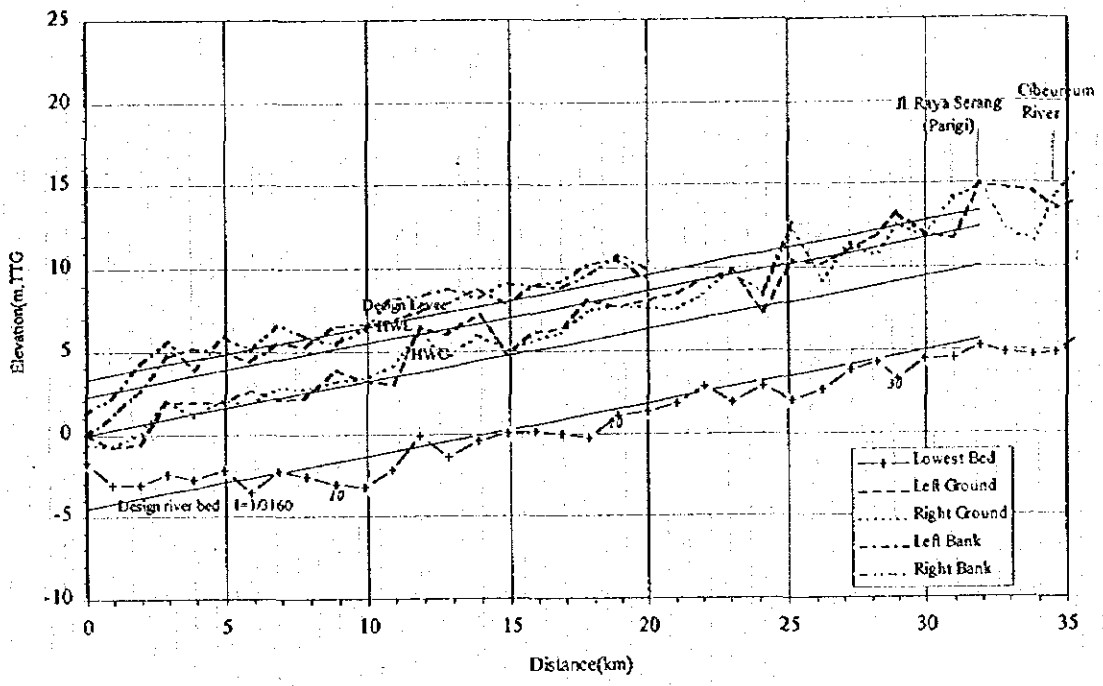


Figure 4.11 DESIGN DISCHARGE DISTRIBUTION FOR PROPOSED MASTER PLAN

CIDURIAN RIVER SYSTEM

CIDURIAN RIVER



CIDURIAN RIVER (Estuary - Jl. Serang Raya<Parigi>)

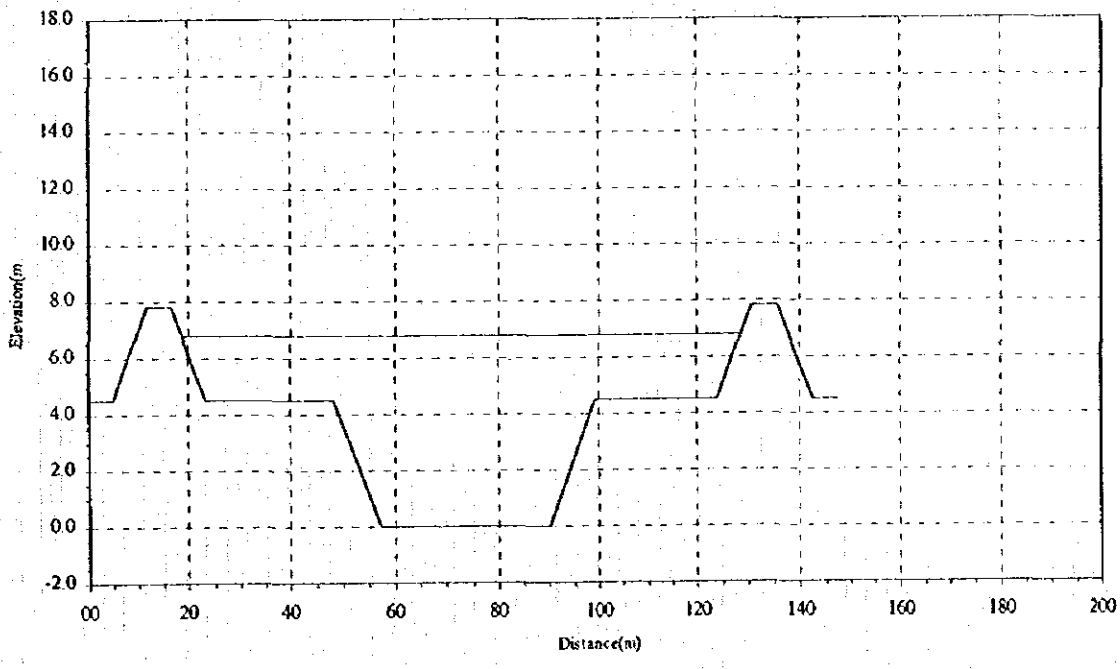


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (1/13)

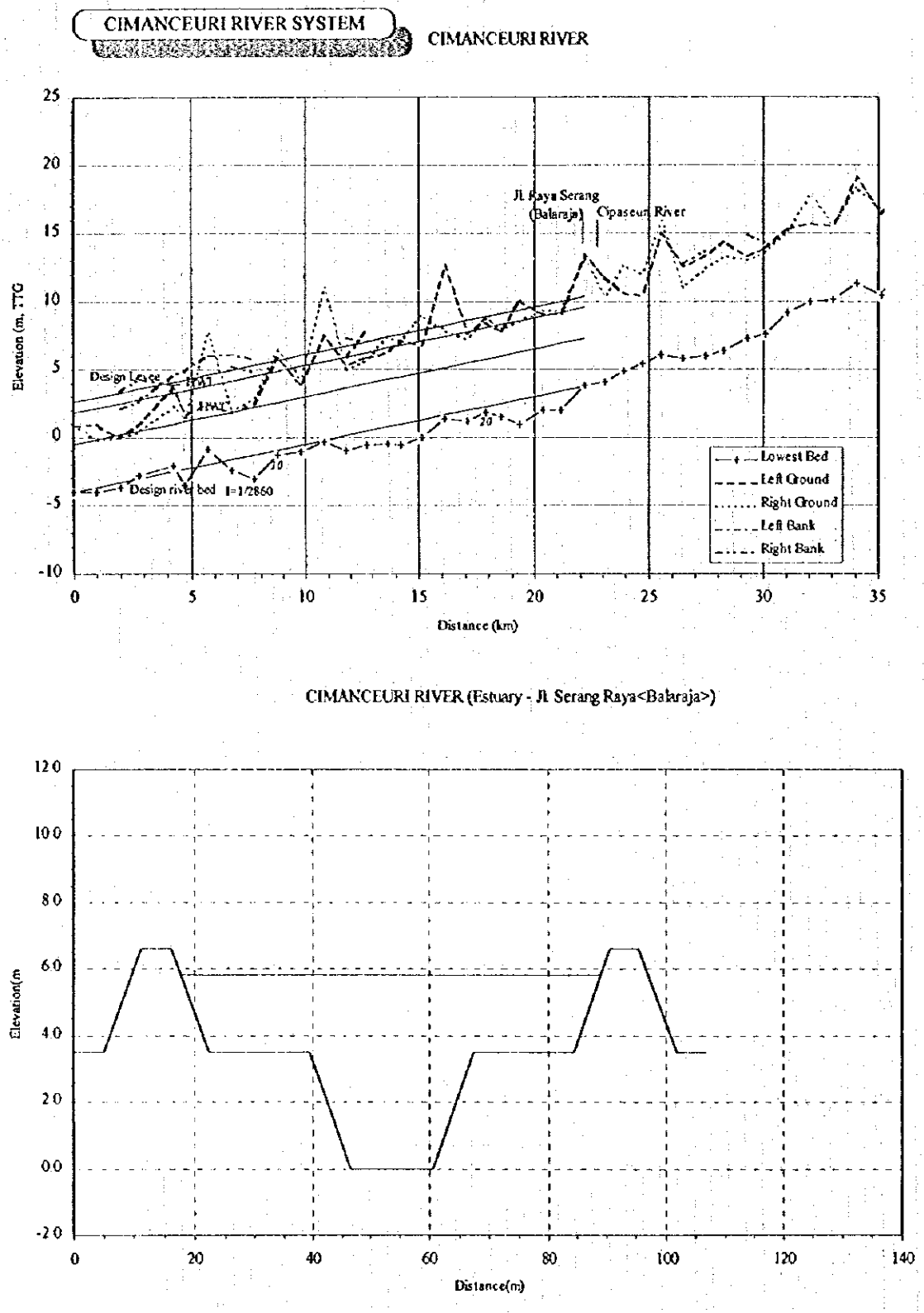
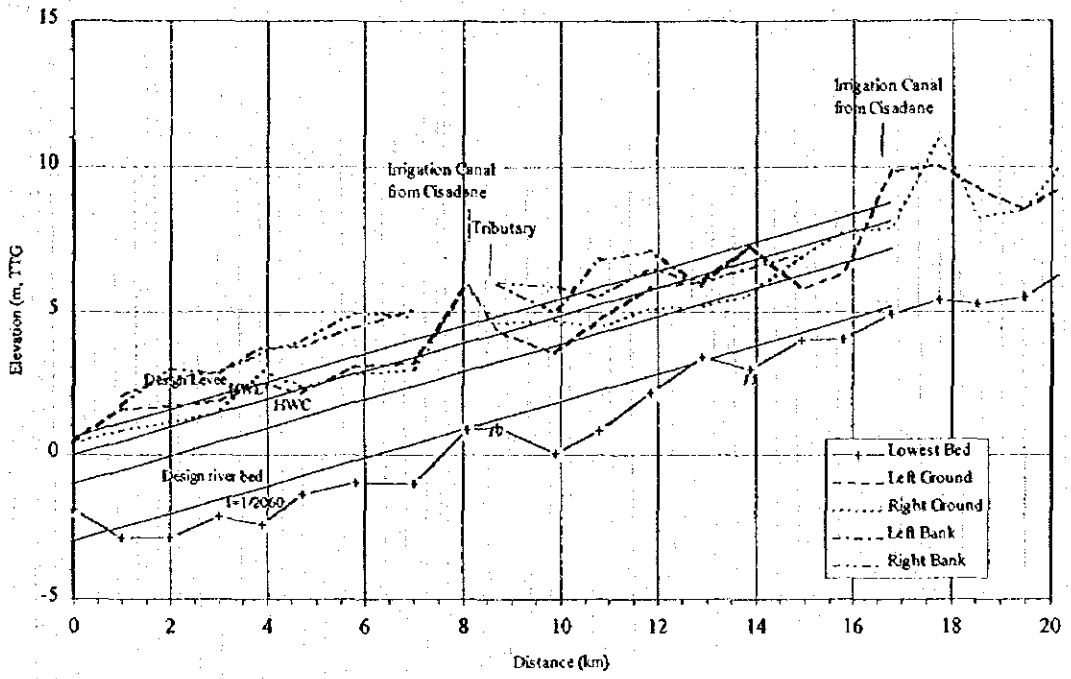


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (2/13)

CIRARAB RIVER SYSTEM

CIRARAB RIVER



CIRARAB RIVER

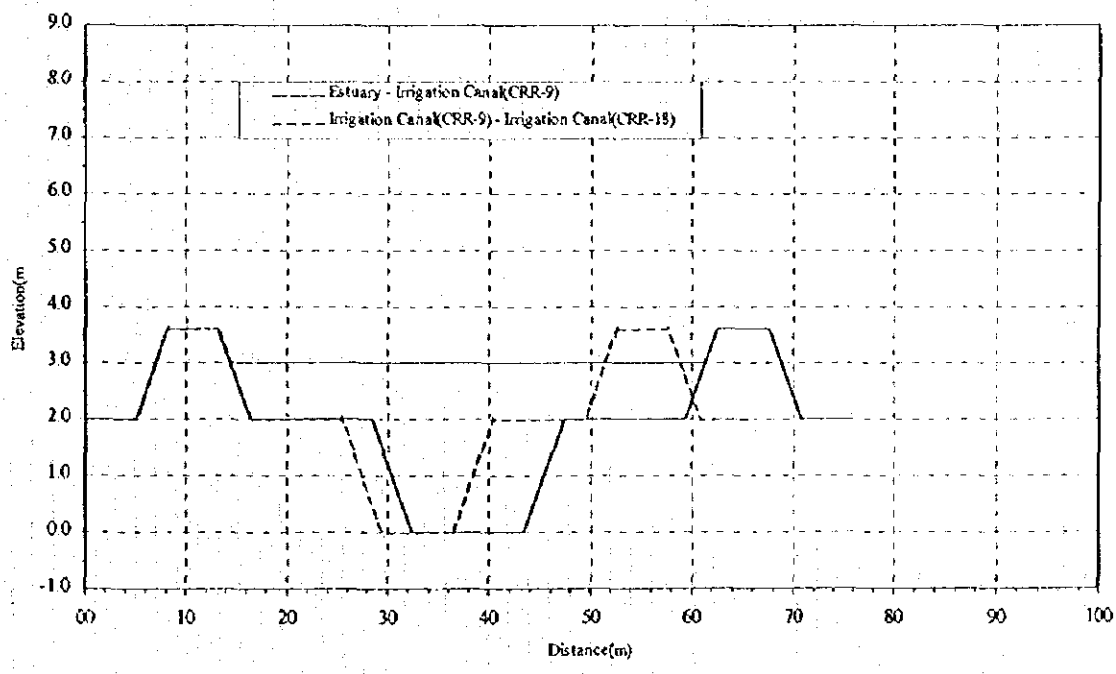
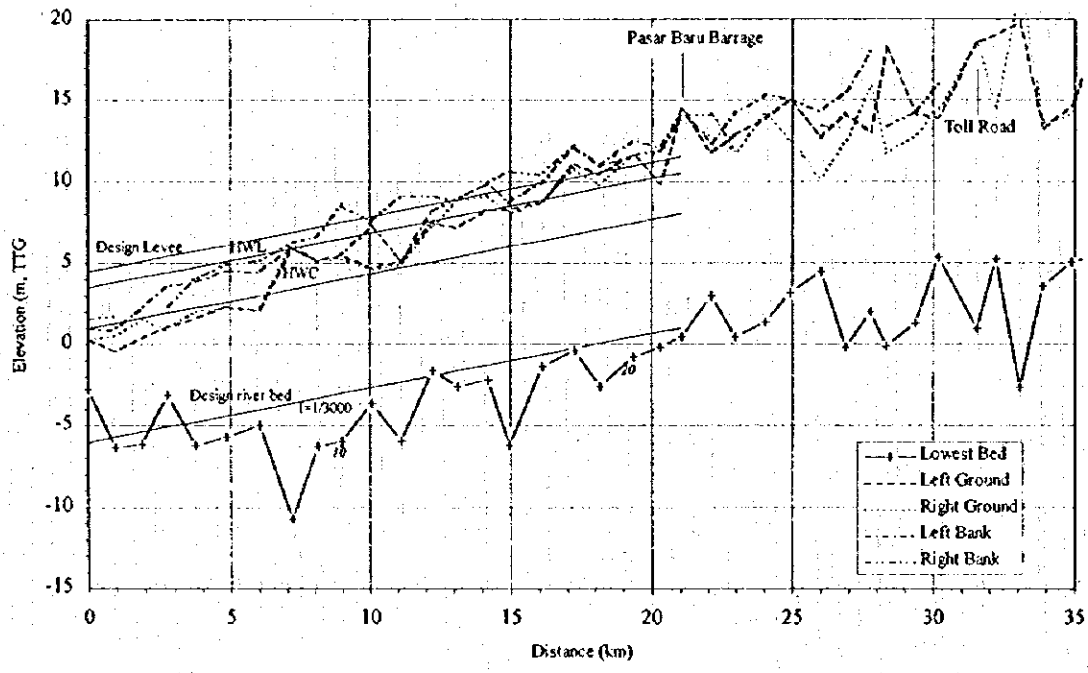


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (3/13)

CISADANE RIVER SYSTEM

CISADANE RIVER



CISADANE RIVER (Estuary - Pasar Baru Barrage)

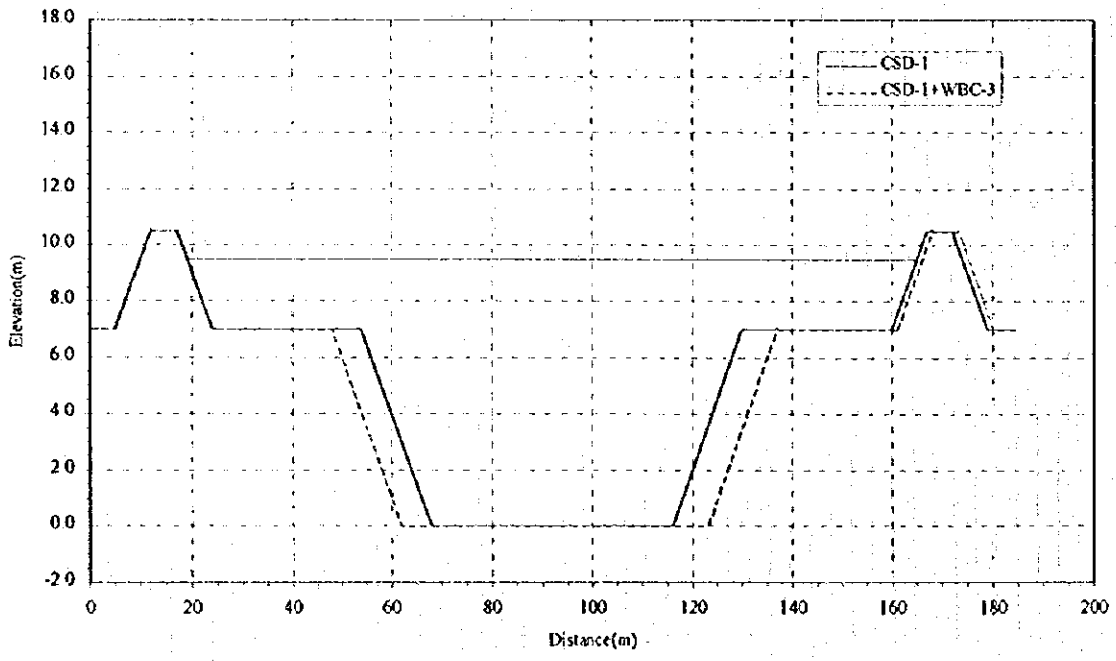
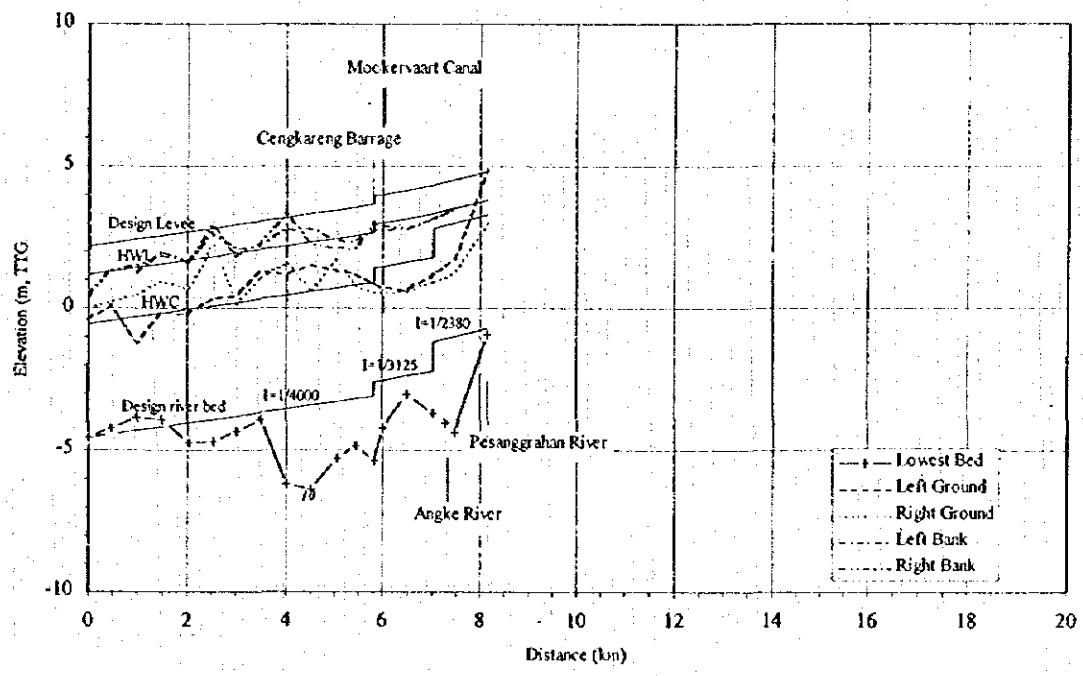


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (4/13)

CENGKARENG FLOODWAY SYSTEM (1/4)

CENGKARENG FLOODWAY



CENGKARENG FLOODWAY

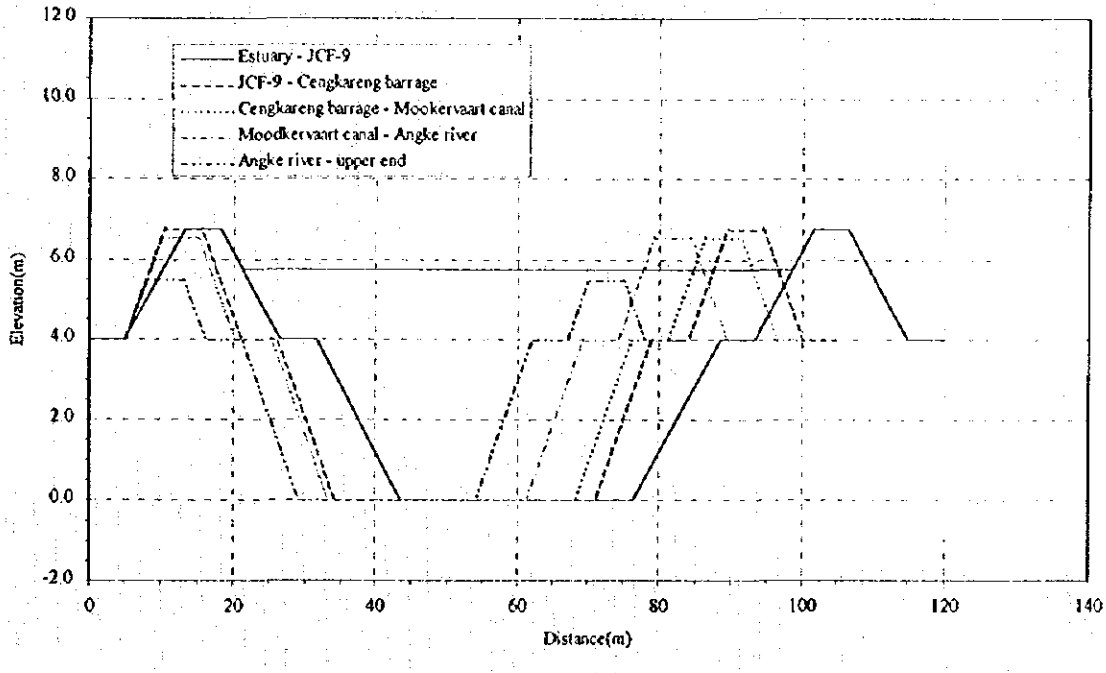
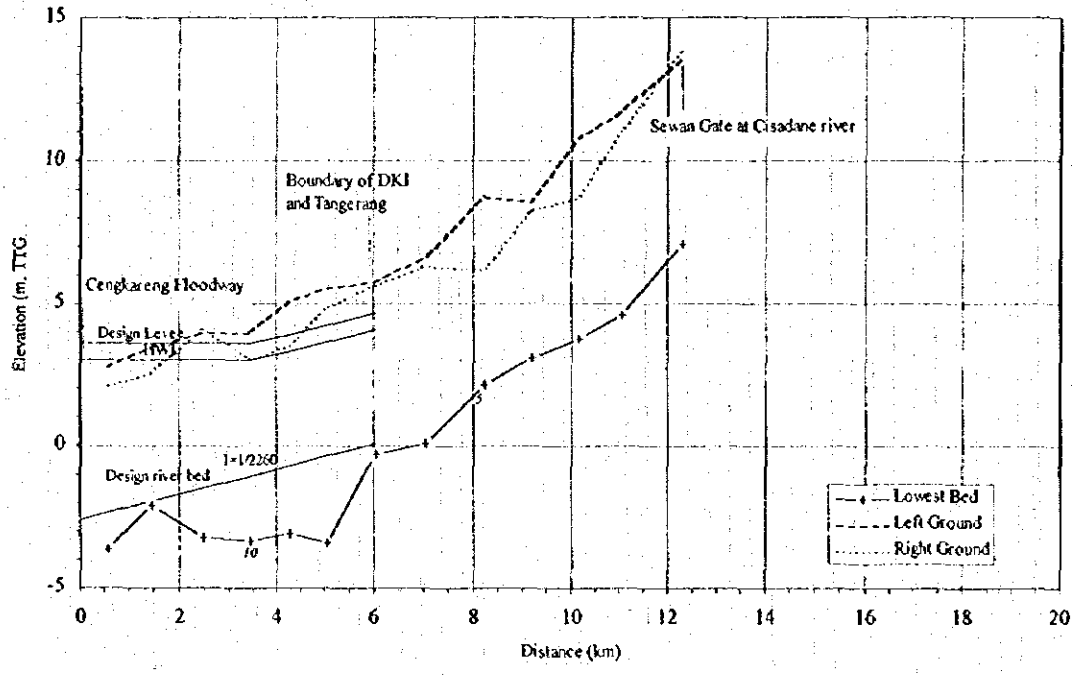


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (5/13)

CENGKARENG FLOODWAY SYSTEM (2/4)



MOOKERVAART CANAL (Cengkareng Floodway - Boundary of DKI and Tangerang)

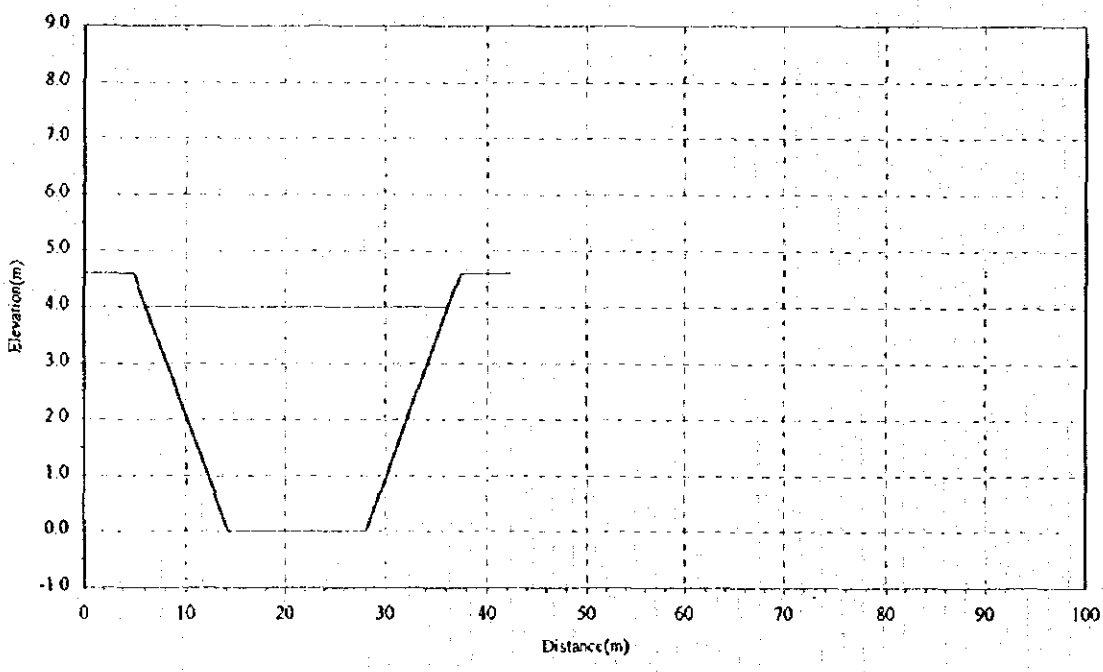
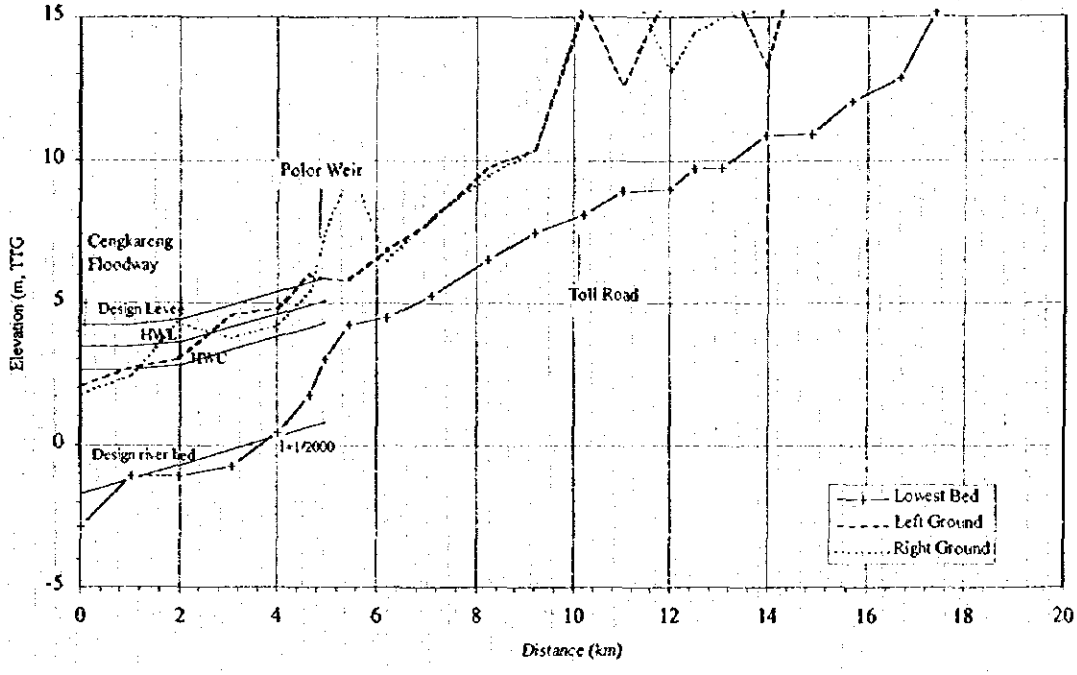


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (6/13)

CENGKARENG FLOODWAY SYSTEM (3/4)

ANGKE RIVER



ANGKE RIVER (Conf with Cengkareng Floodway - Polor Weir)

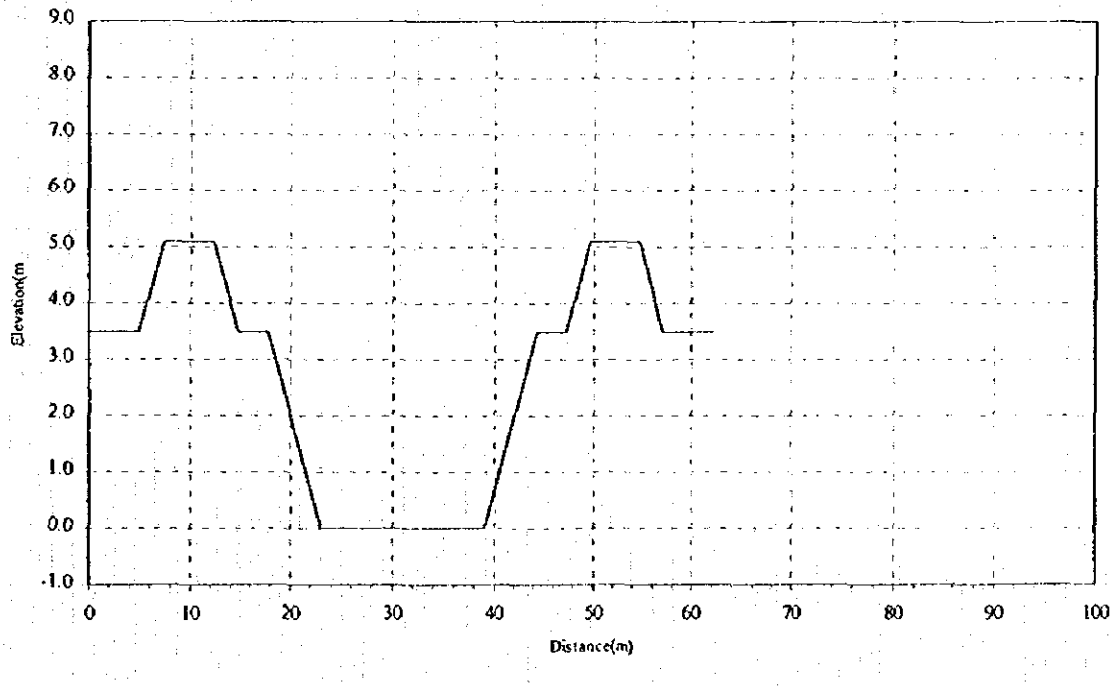
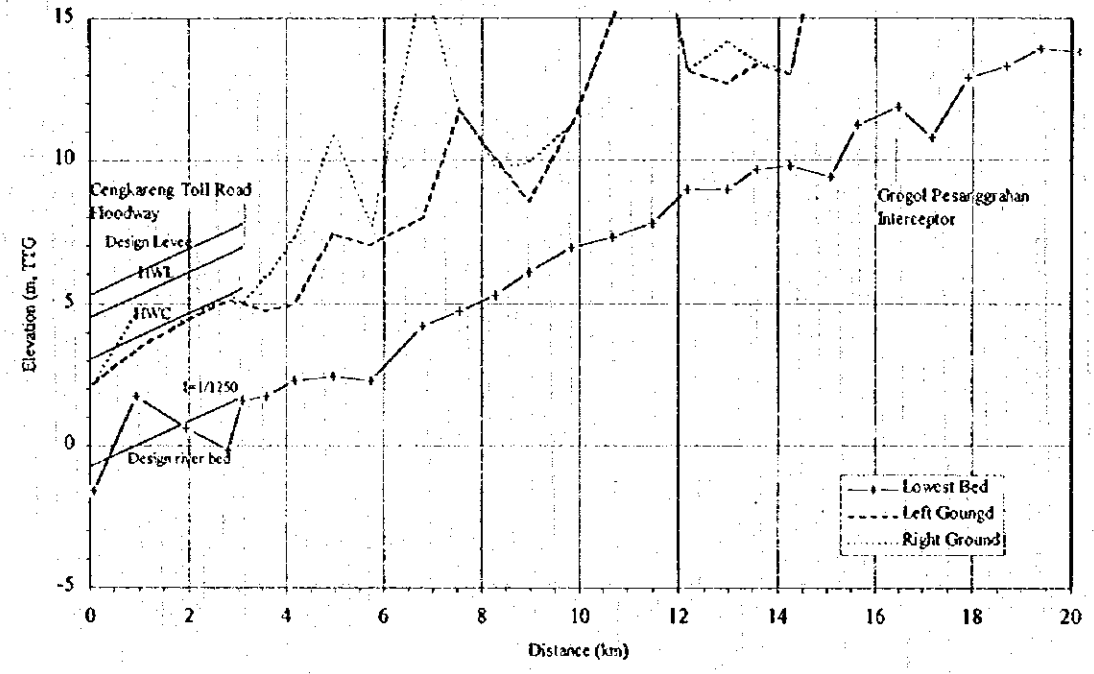


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (7/13)

CENGKARENG FLOODWAY SYSTEM (4/4)

PESANGGRAHAN RIVER



PESANGGRAHAN RIVER (Conf. with Cengkareng Floodway - Toll Jakarta-Merak)

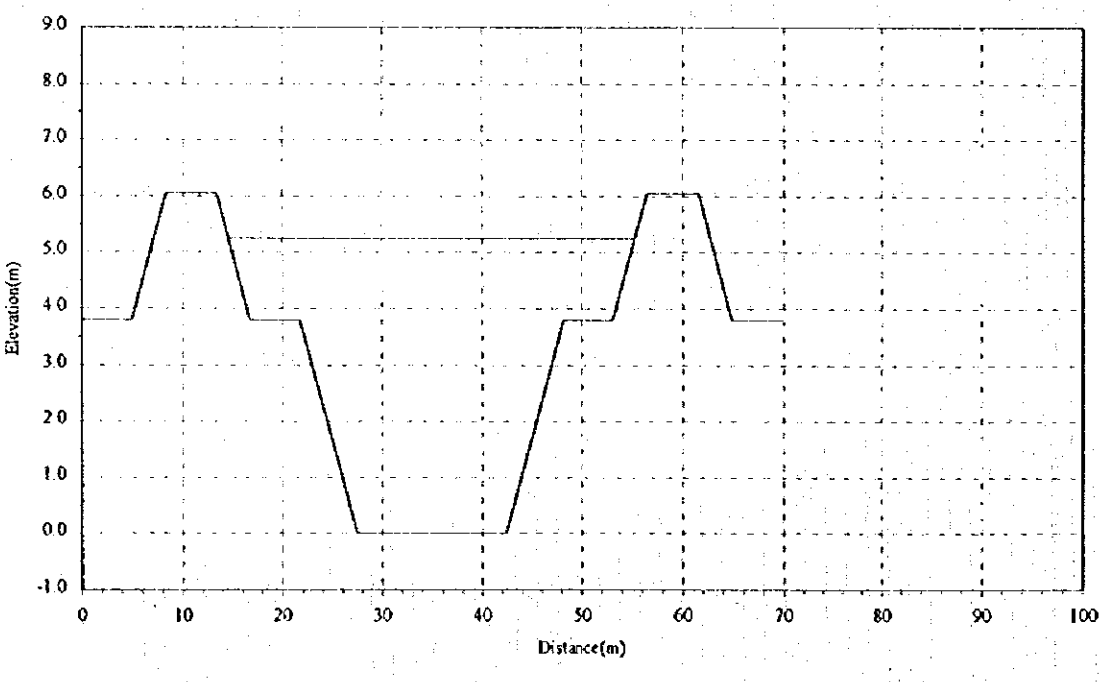
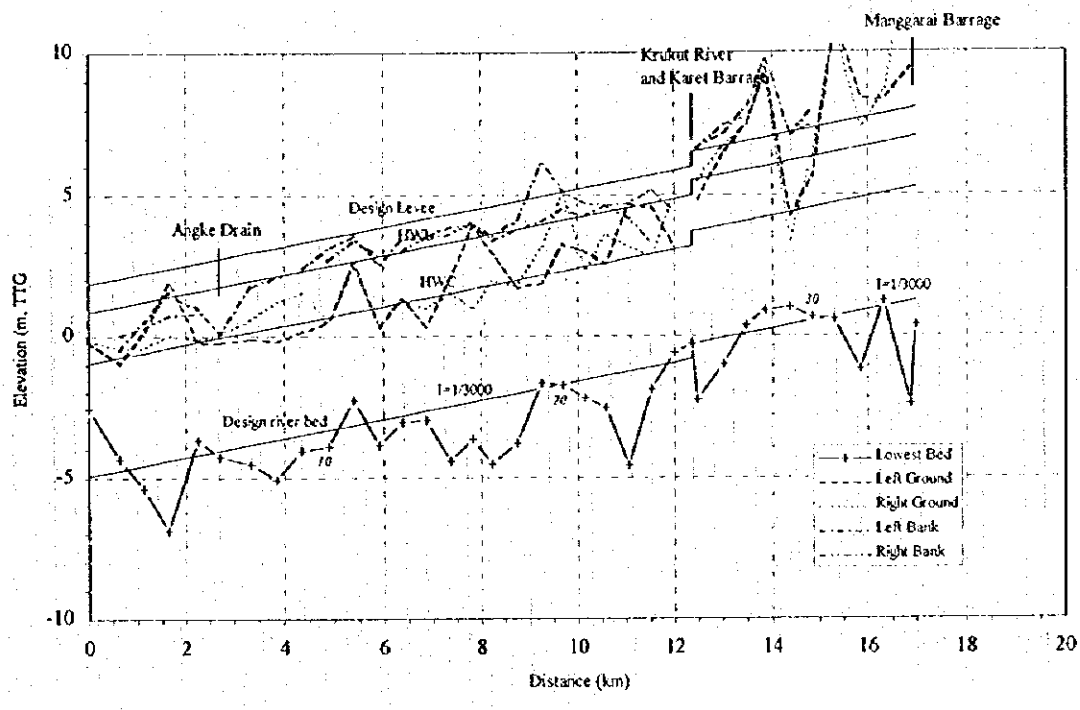


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (8/13)

WESTERN BANJIR CANAL SYSTEM

WESTERN BANJIR CANAL



WESTERN BANJIR CANAL

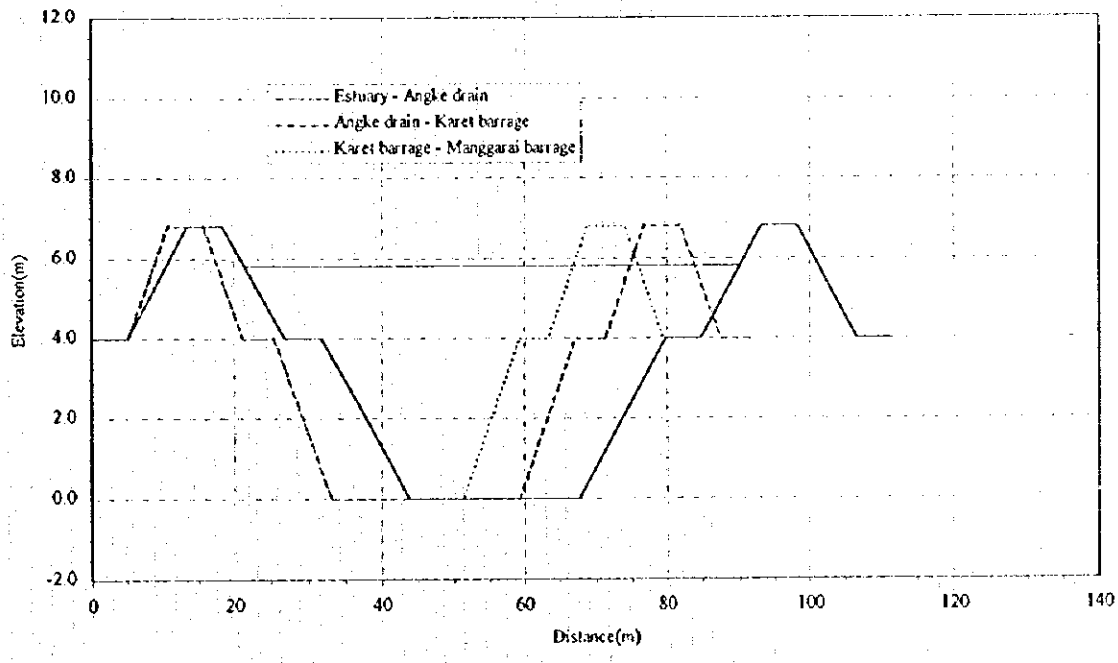
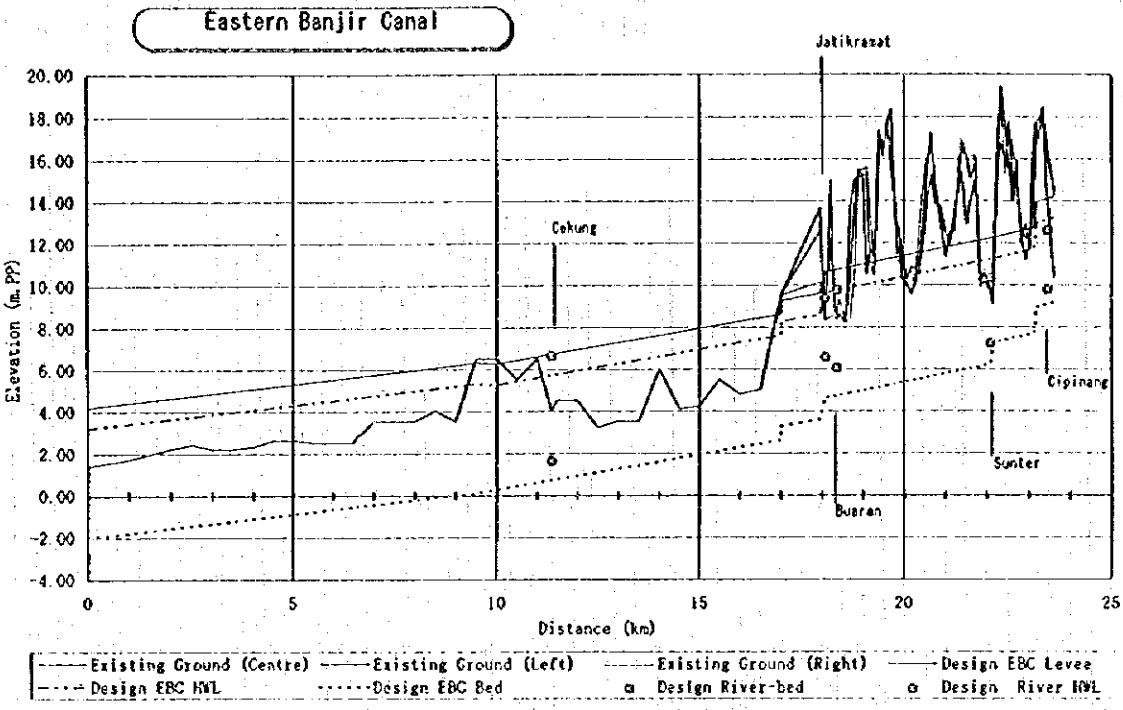


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (9/13)



EASTERN BANJIR CANAL

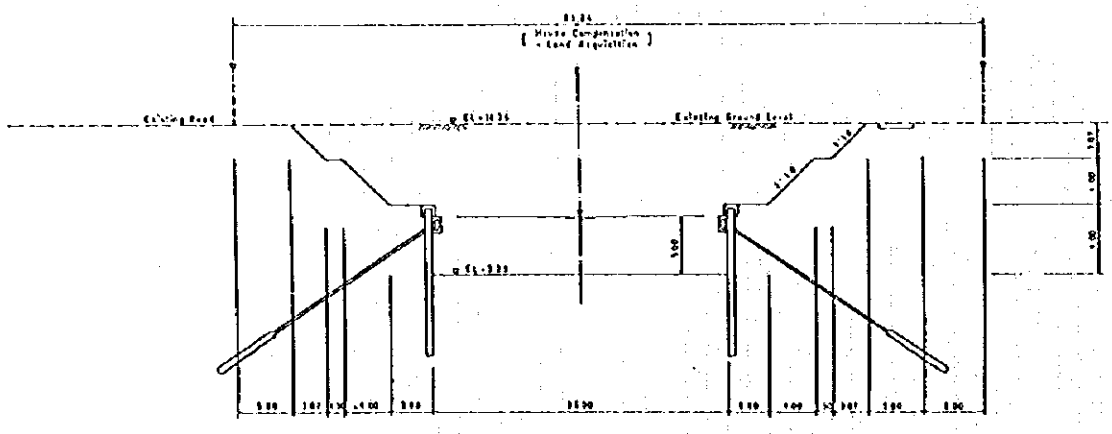
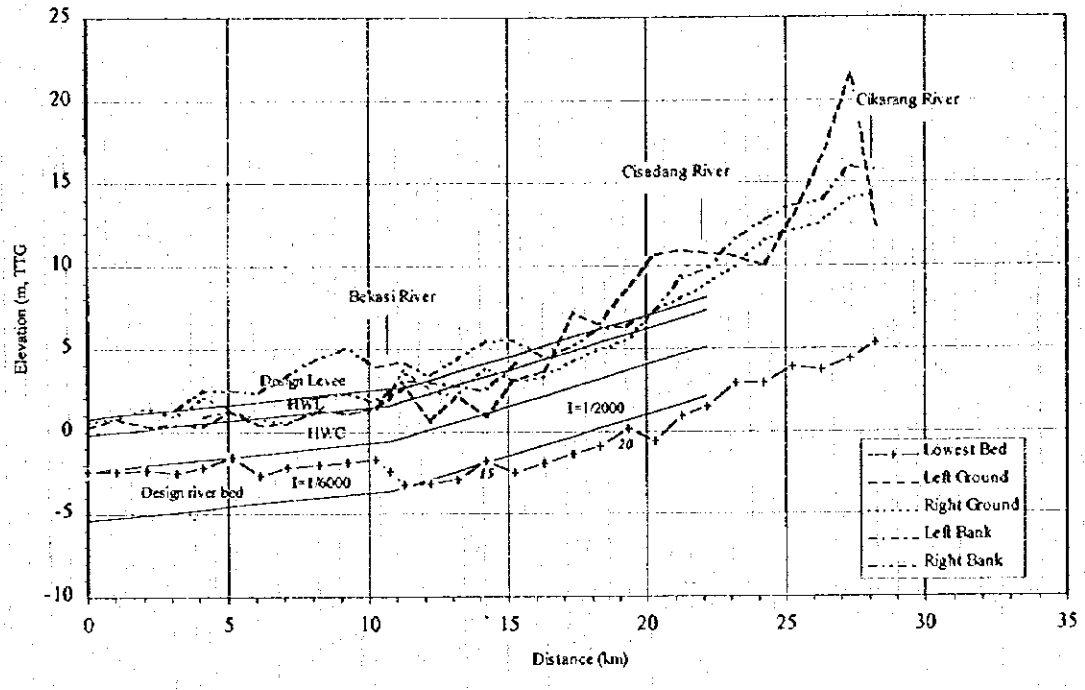


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS-SECTION (10/13)

CBL FLOODWAY SYSTEM (1/3)

CBL FLOODWAY



CBL FLOODWAY

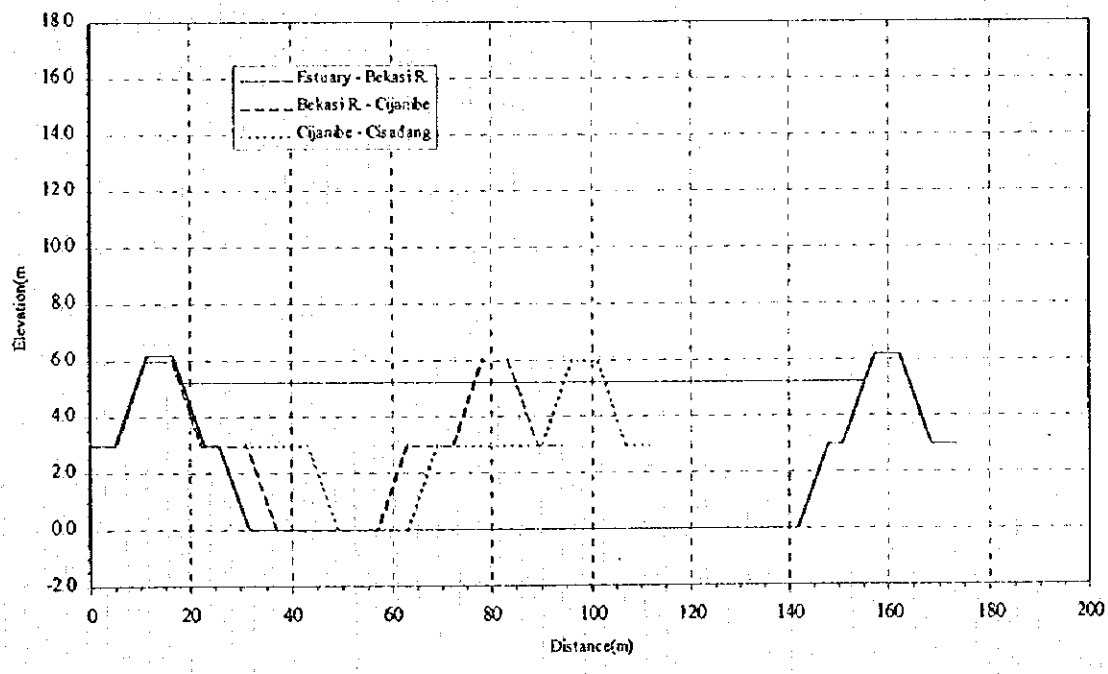
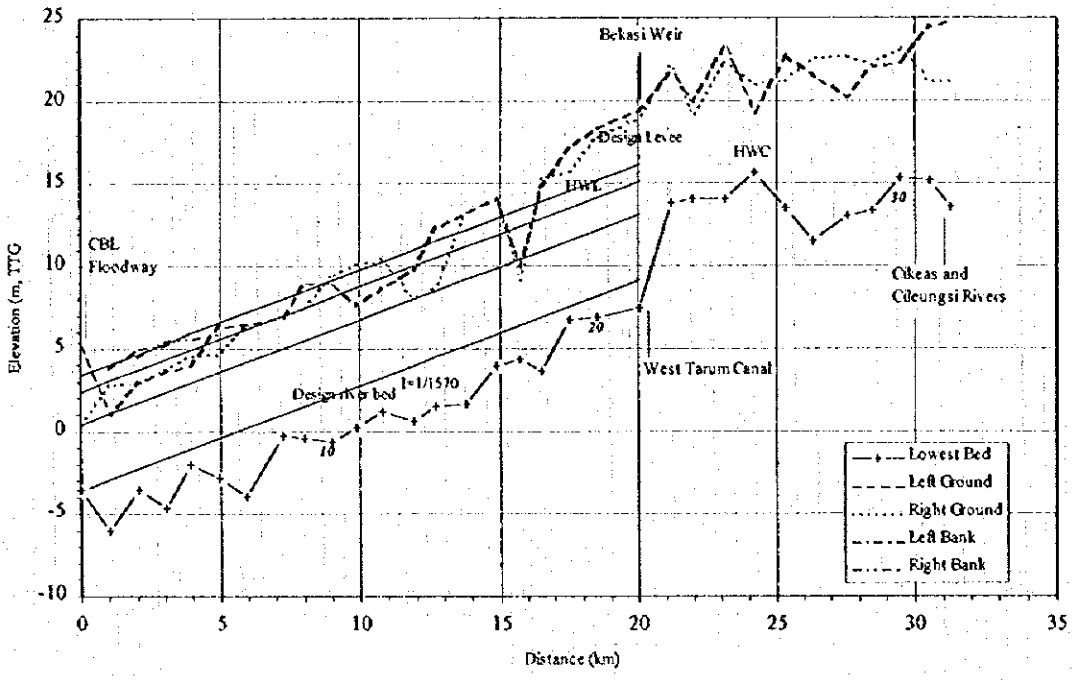


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (11/13)

CBL FLOODWAY SYSTEM (2/3)

BEKASI RIVER



BEKASI RIVER (Conf. with CBL - Bekasi Weir)

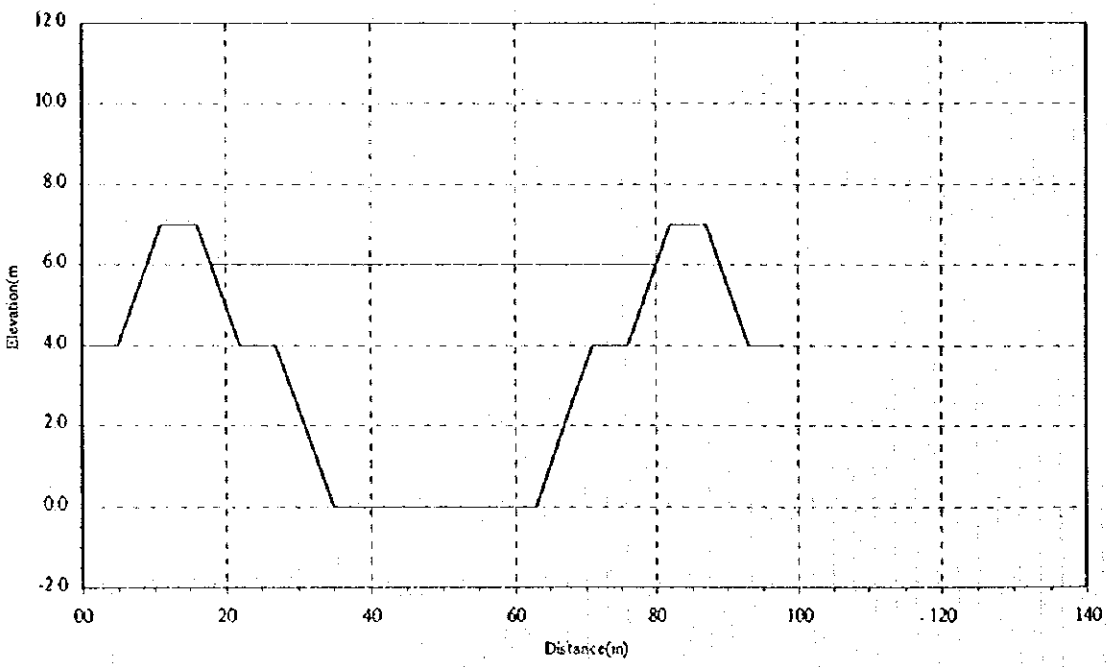
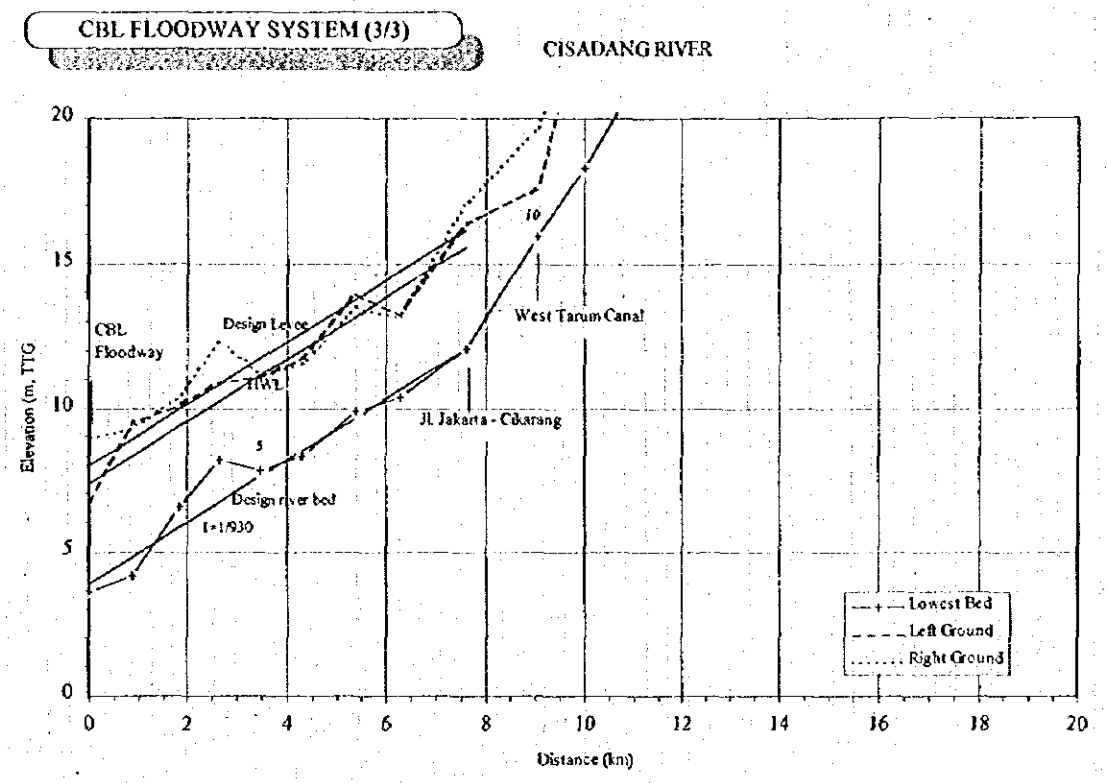


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (12/13)



CISADANG RIVER (Conf. with CBL - Jl. Jakarta-Cikarang)

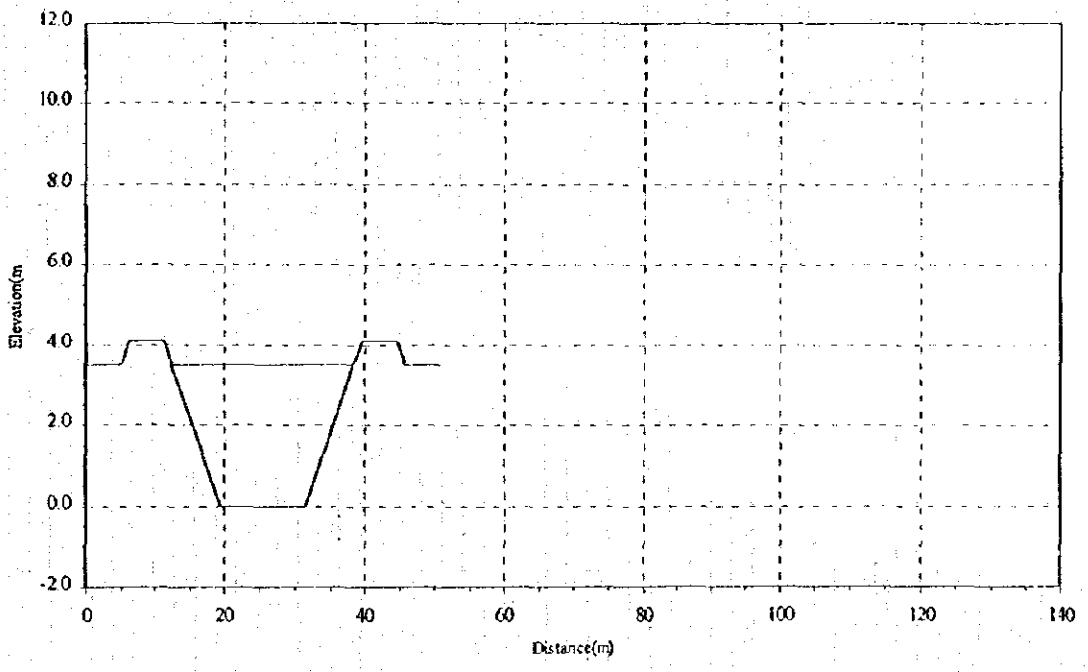


Figure 4.12 PROPOSED LONGITUDINAL PROFILE AND CROSS SECTION (13/13)

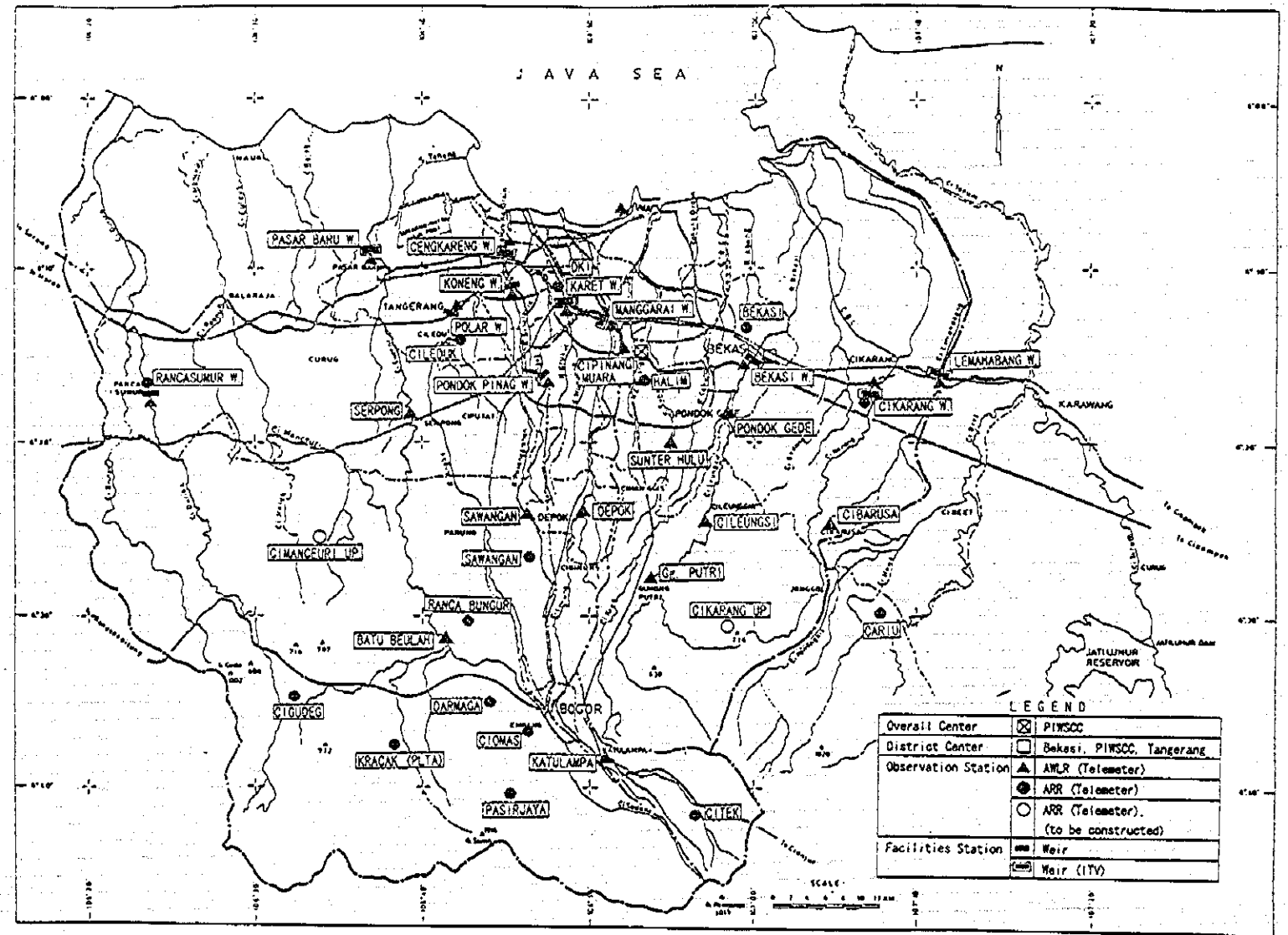


Figure 4.13 LOCATION OF WATER MANAGEMENT FACILITIES

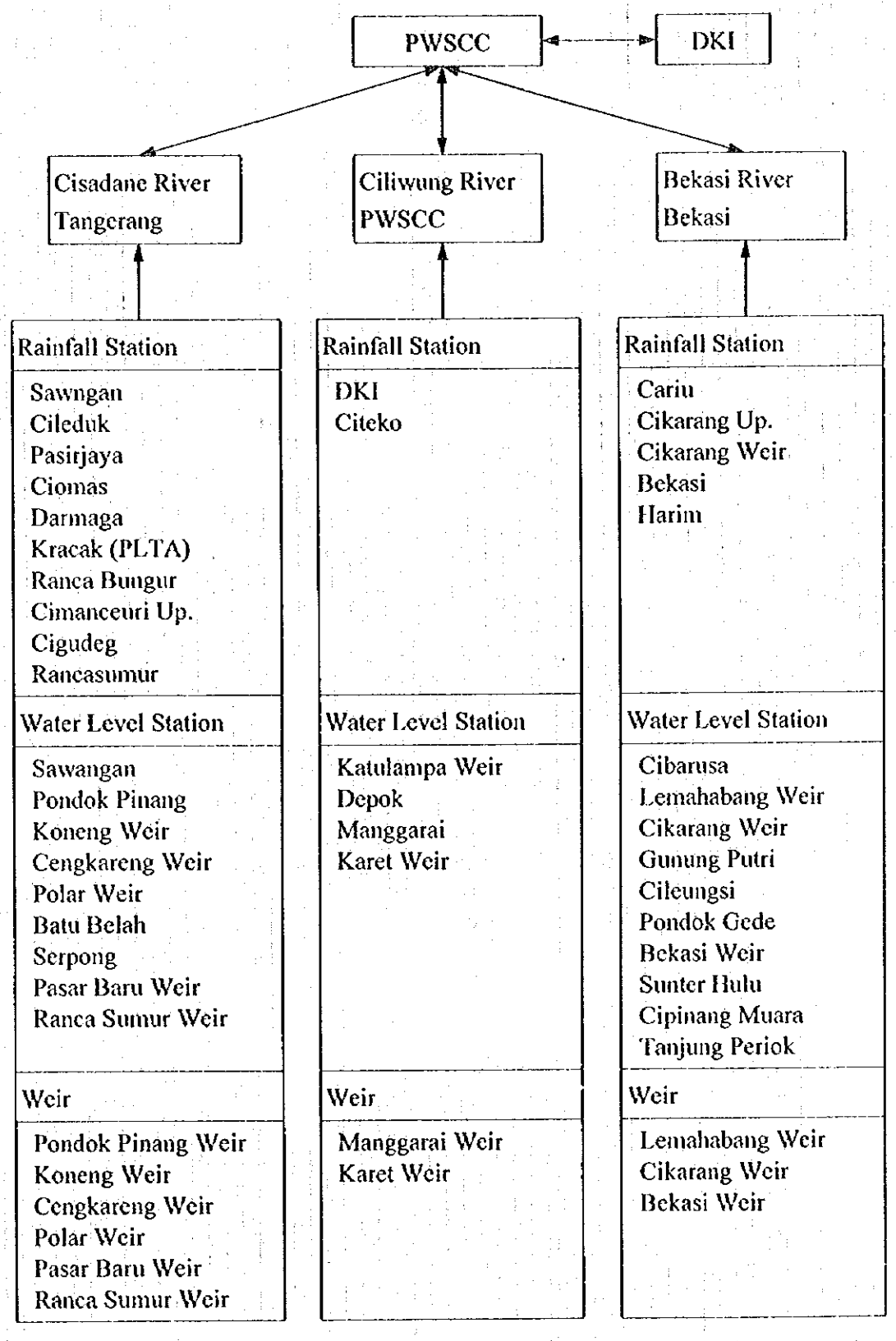


Figure 4.14 HIERARCHY OF MONITORING SYSTEM

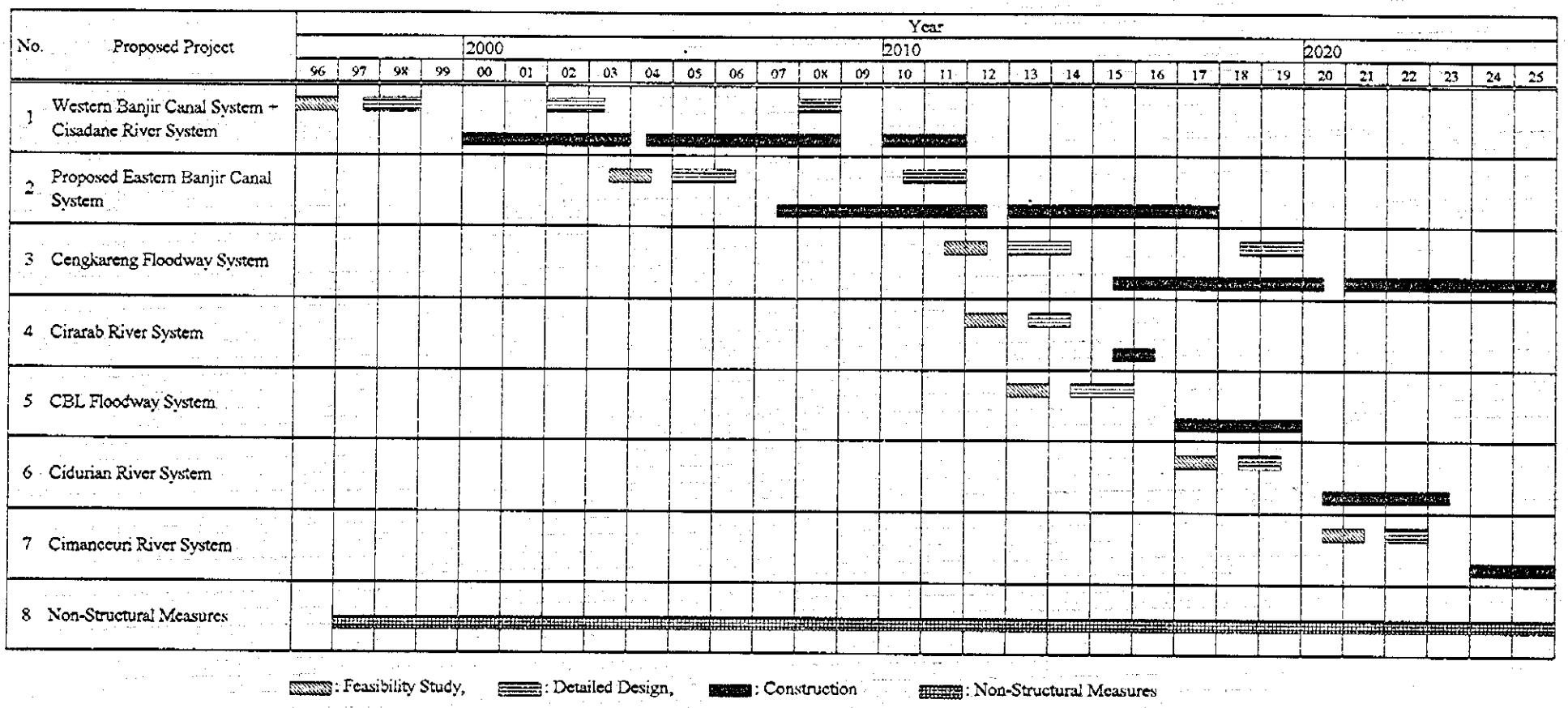


Figure 4.15 PROPOSED IMPLEMENTATION SCHEDULE