

Reference Point:
 The Elevation is referred to TTG 177 = 40.136 meters
 The correlation between other system are
 TTG 177 ± 0 = NWP - 0.975 meters = PP ± 0.000 meters

(IN METERS)
 1:500

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

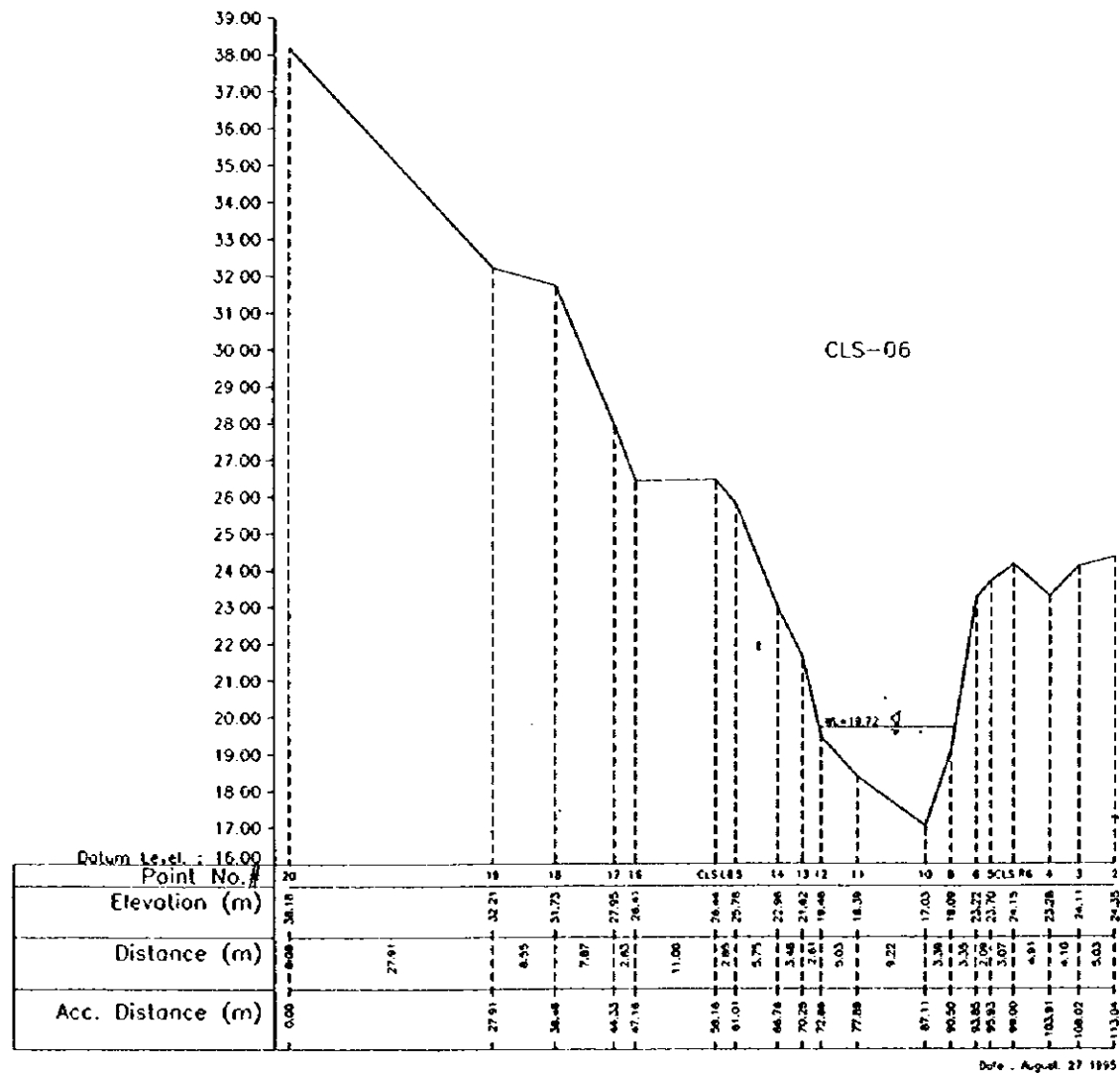
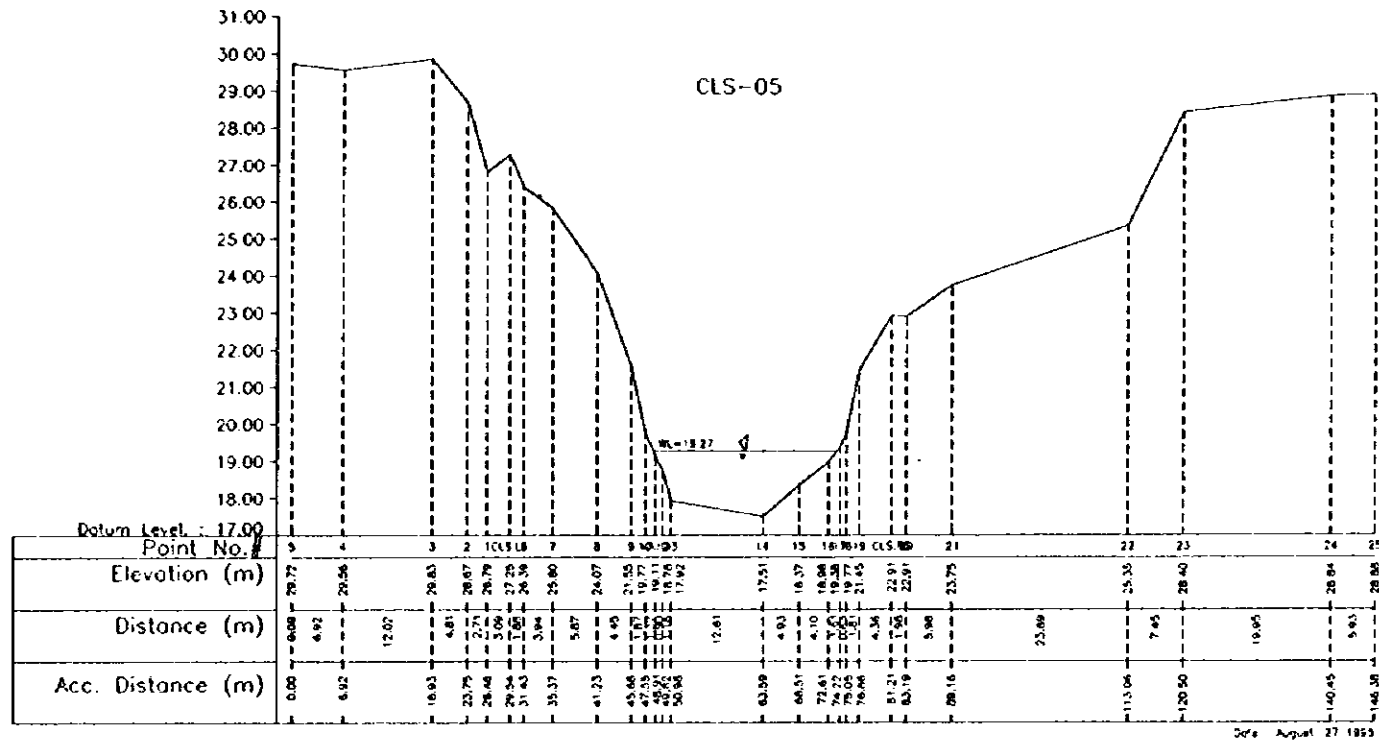
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CILENGSI RIVER** Drawing Title : **CROSS SECTION**

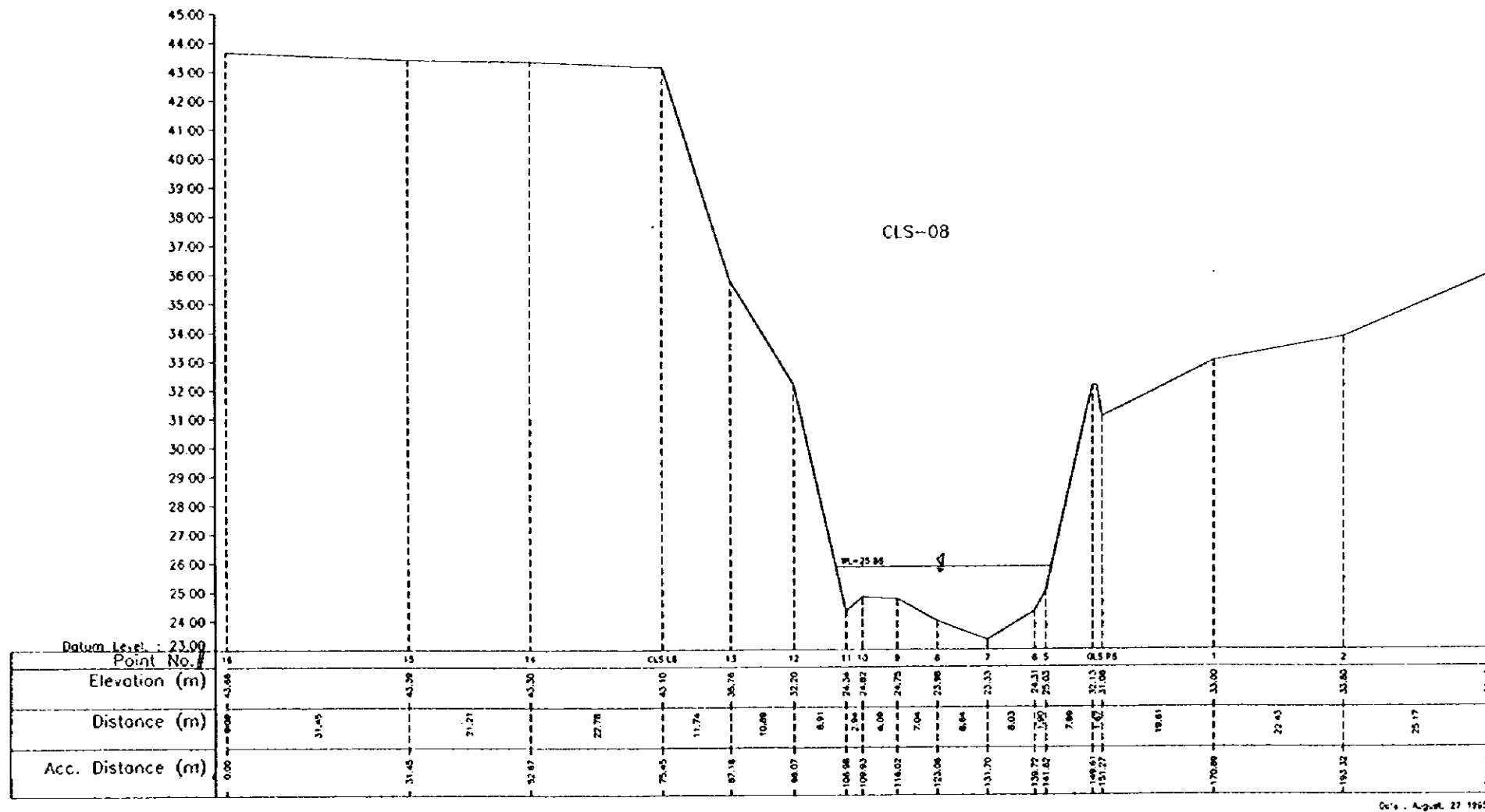
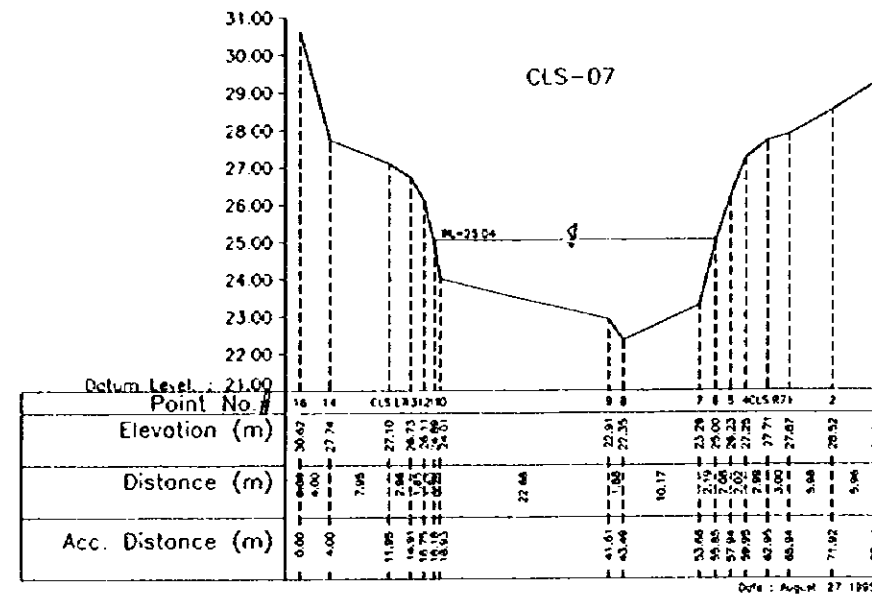
Checked by : *[Signature]* Approved by : *[Signature]* Scale : Sheet No : **1 of 3**

Name : **BAROHO SOEDARTO** Name : **K. TORNAME**
 Signature : *[Signature]* Signature : *[Signature]*
 Date : **13/11/95** Date : **12/11/95**

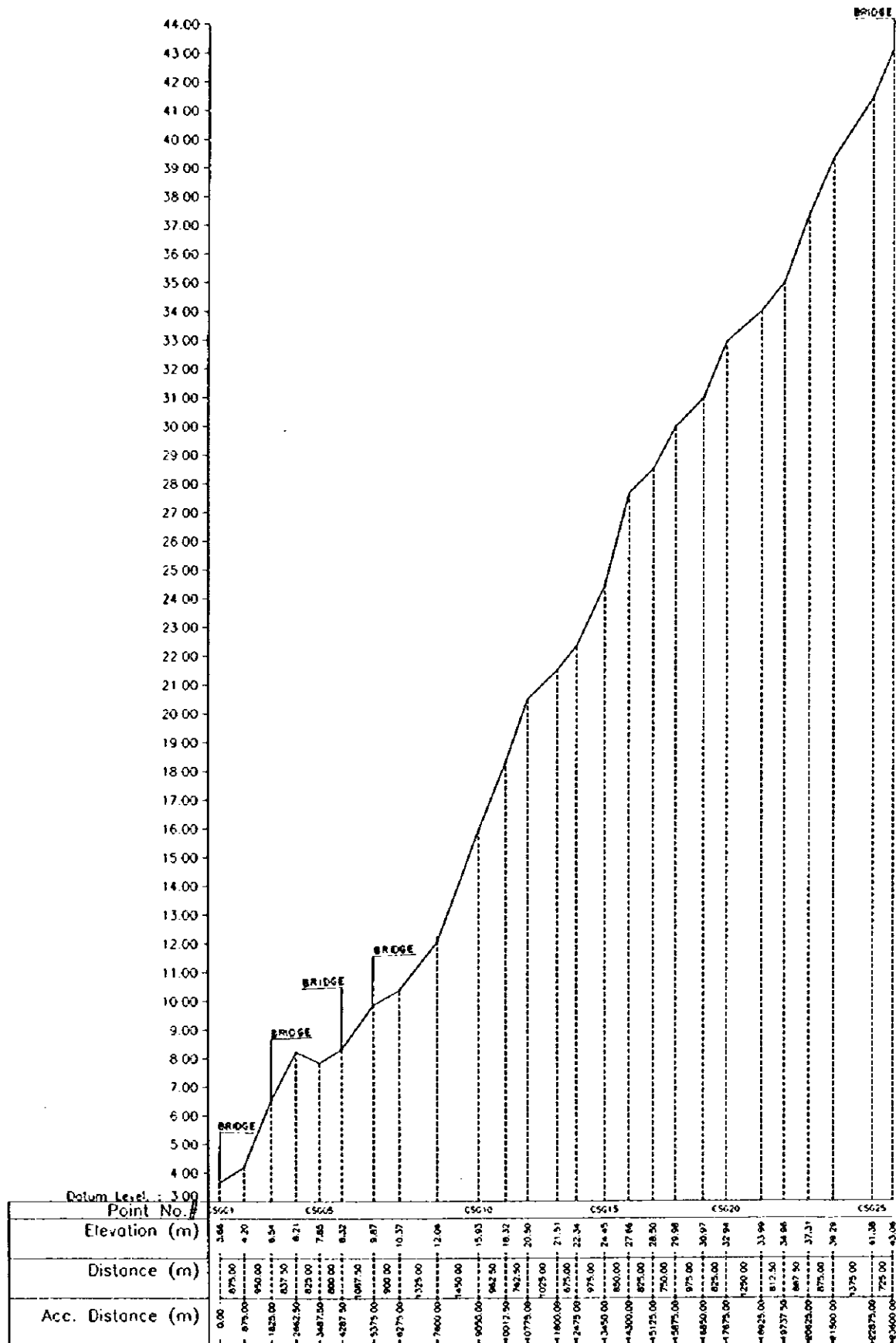
JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIJATMAN & Associates** JAKARTA - INDONESIA



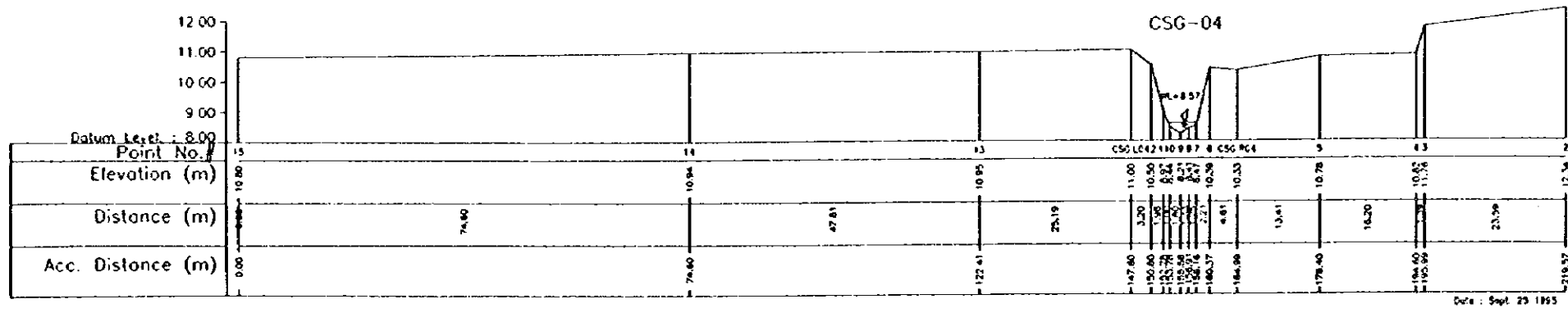
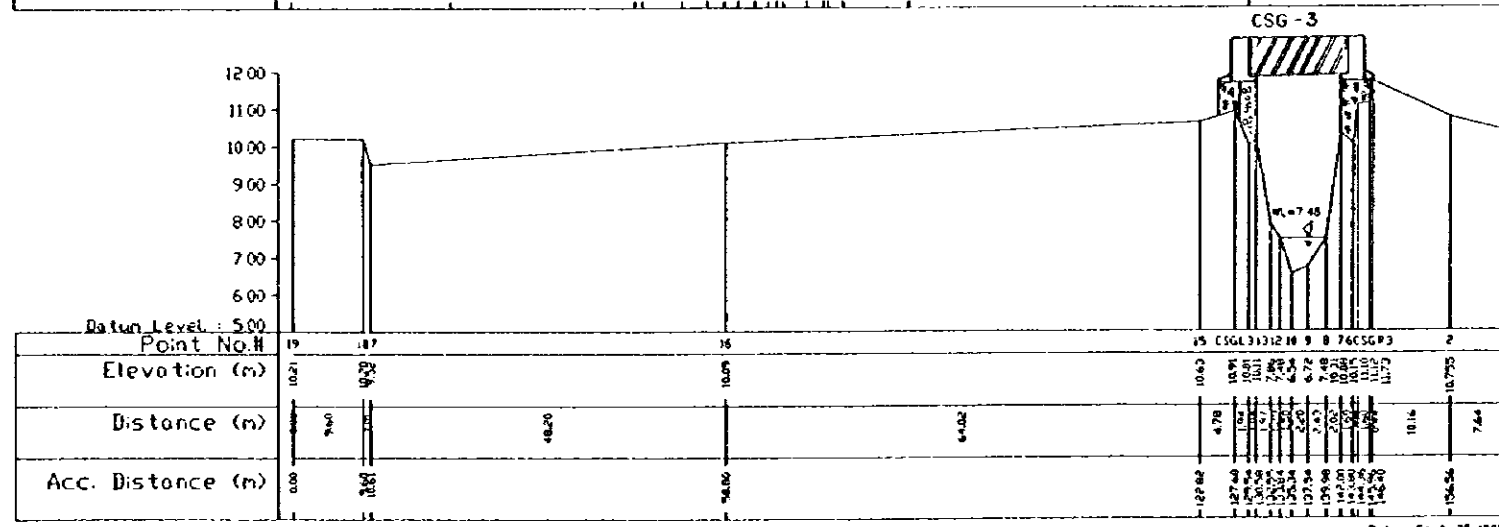
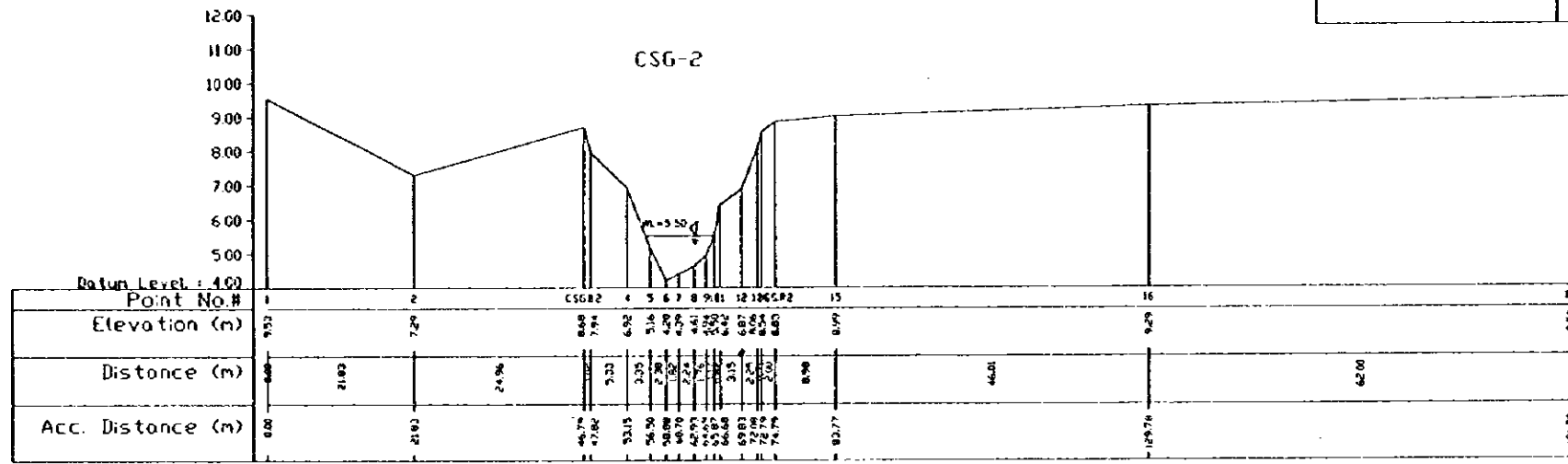
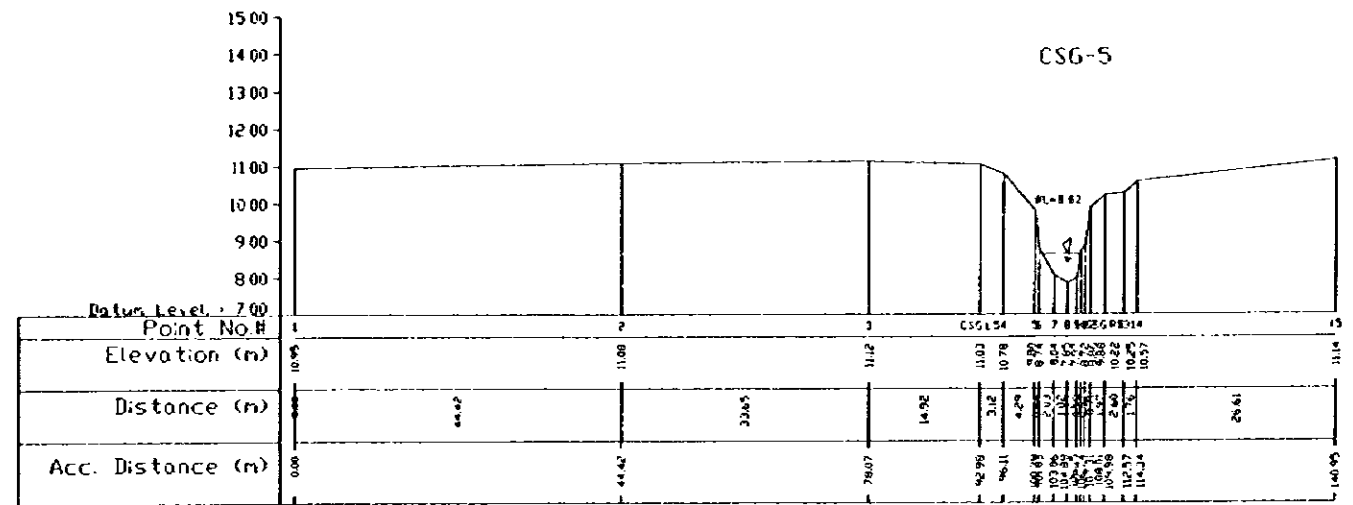
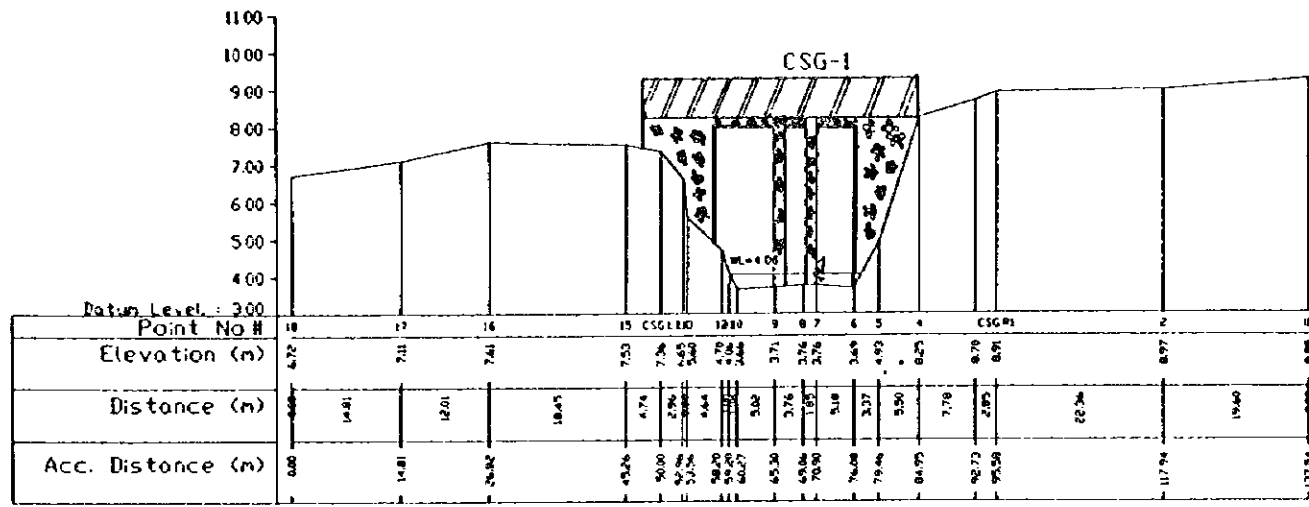
Reference Point: The Elevation is referred to TIG 177 = 40.136 meters The correlation between other system are: TIG 177 ± 0 = KSP - 0.875 meters = PP ± ... meter			
MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTABEK			
Name of River : CILEUNGSI RIVER		Drawing Title : CROSS SECTION	
Checked by	Approved by	Scale	Sheet No
Name : BIRNHO SOEDAPLO Signature : <i>[Signature]</i> Date : 18.11.95	Name : H. TOPANE Signature : <i>[Signature]</i> Date : 21.11.95	Horizontal 1 : 500 Vertical 1 : 100	2 of 3
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WIJATMAN & Associates JAKARTA - INDONESIA	



Reference Point: The Elevation is referred to TIG 177 = 40.136 meters The correlation between other system are: TIG 177 ± 0 = HWP = 0.975 meters = PP ± meter				
MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT				
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK				
Name of River : CILEUNGSI RIVER			Drawing Title : CROSS SECTION	
Checked by:	Approved by:		Scale	Sheet No.
Name: Signature: Date:			Horizontal 1 : 500 Vertical 1 : 100	3 of 3
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			Watanabe & Associates JAKARTA - INDONESIA	



Reference Point The Elevation is related to FIG 177 = 43.136 meters The correlation between other system are FIG 177 g 0 = NWP = 0.975 meters = PP + ... meter		
MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT		
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK		
Name of River : CISADANG RIVER		Drawing Title : LONGITUDINAL PROFILE
Checked by Name: <i>BIRINDO</i> Signature: <i>[Signature]</i> Date: <i>26/11/95</i>	Approved by Name: <i>REKARTO</i> Signature: <i>[Signature]</i> Date: <i>26/11/95</i>	Scale Horizontal 1 : 100000 Vertical 1 : 100
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WIRATMAN & Associates JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIG 177 = 40.156 meters
 The correlation between other system are :
 TIG 177 & D = MWP - 0.875 meters = PP + ... meter

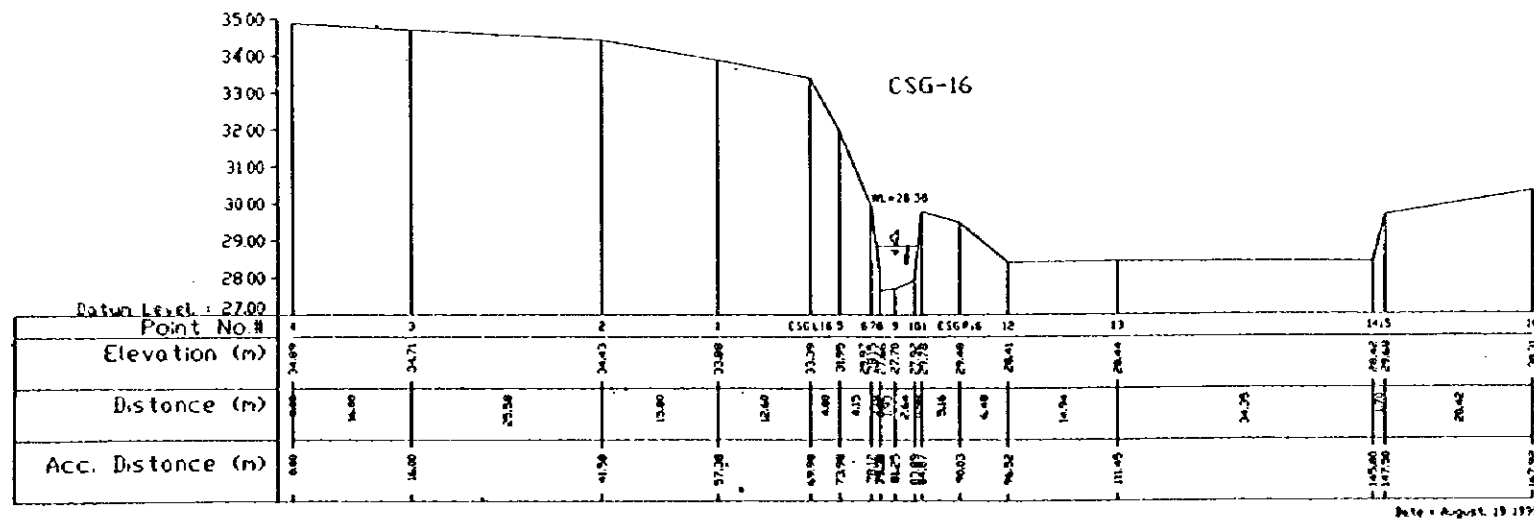
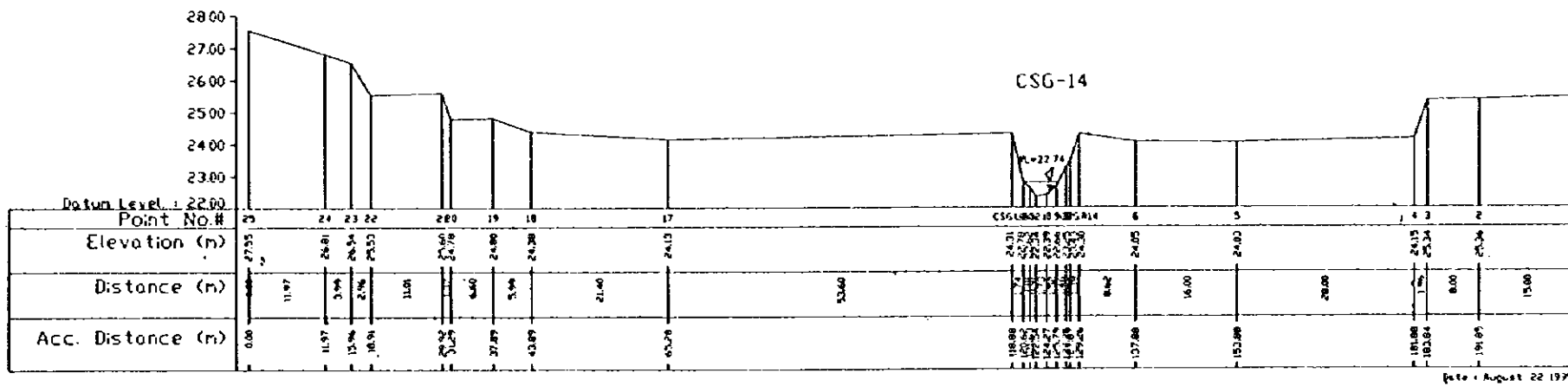
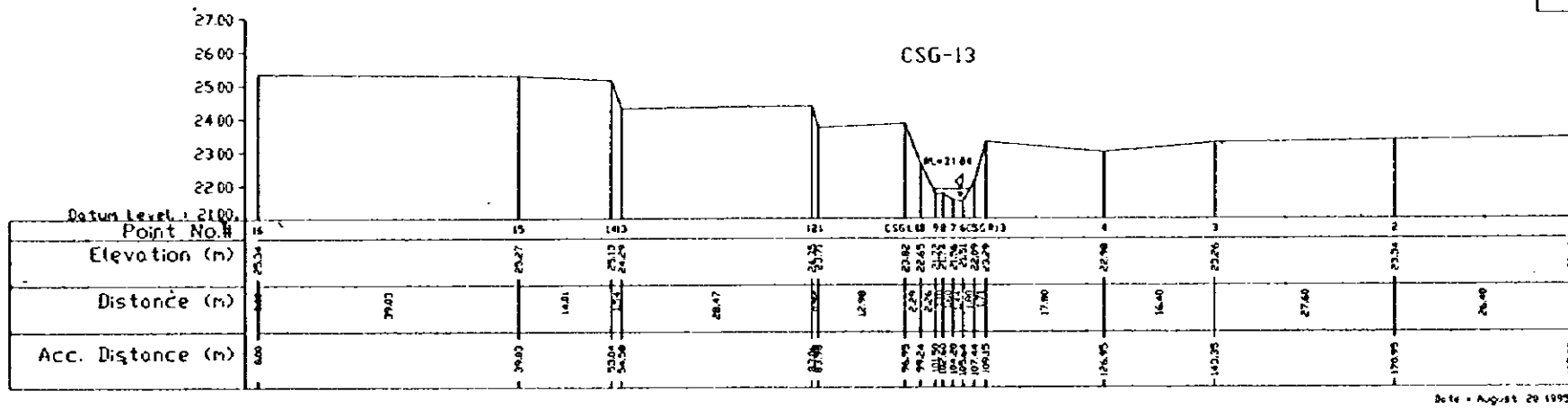
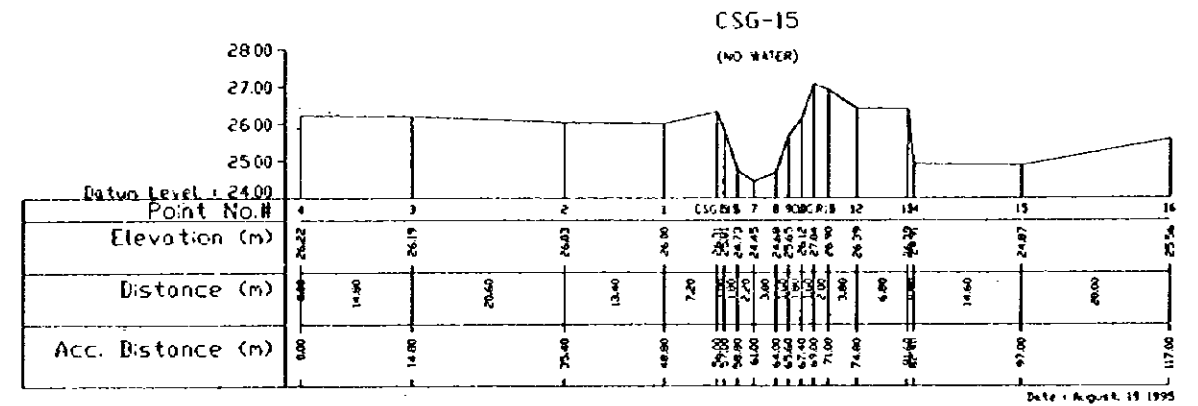
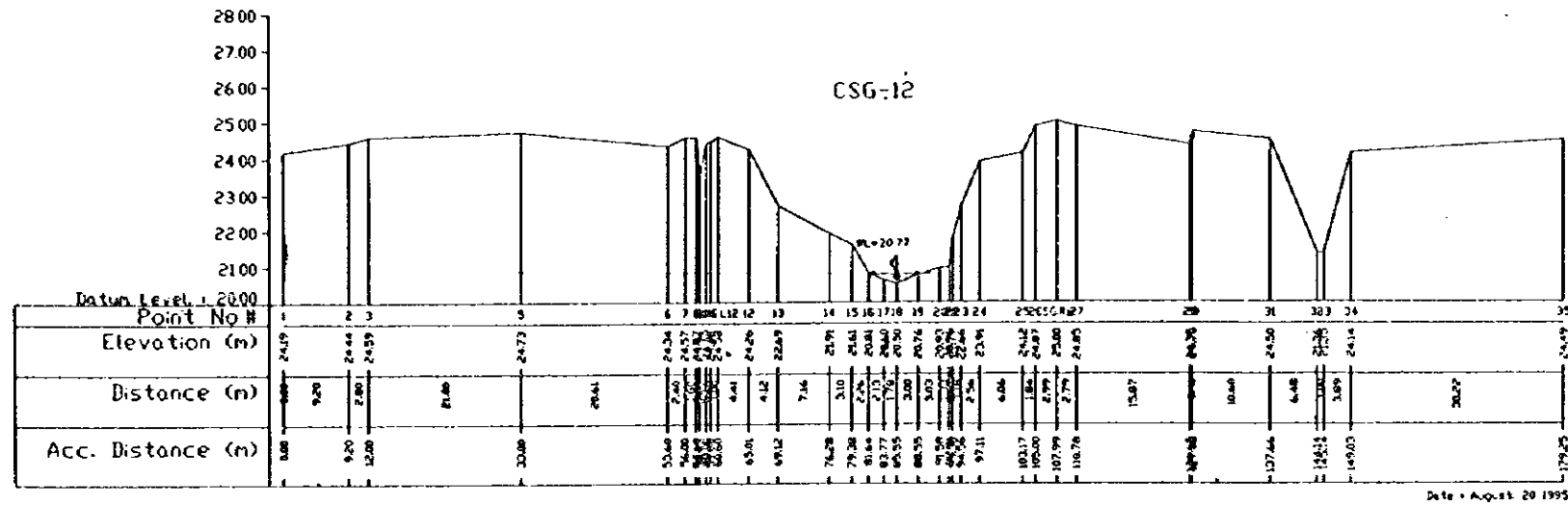
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River :	CISADANG RIVER	Drawing Title :	CROSS SECTION
Checked by :	SOEPRANTO	Approved by :	SOEPRANTO
Date :	12.10.95	Date :	21.11.95

Scale : Horizontal 1 : 500, Vertical 1 : 100
 Sheet No. : 1 of 5

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WIJATMAN & Associates JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are :
 TIG 177 ± 0 = NWP - 0.975 meters = PP + ... meter

(IN METERS)
 1 : 500
 1 : 100
 1 : 50
 1 : 20
 1 : 10
 1 : 5
 1 : 2
 1 : 1

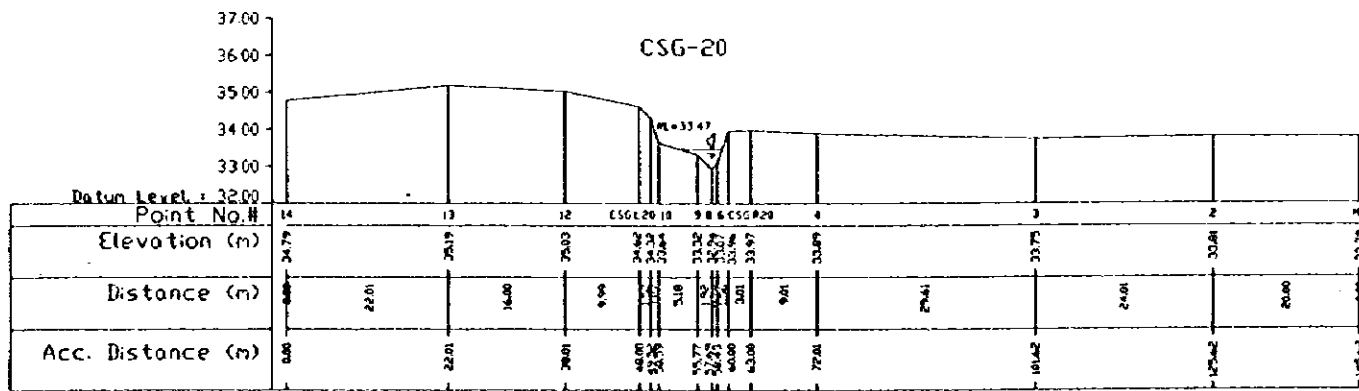
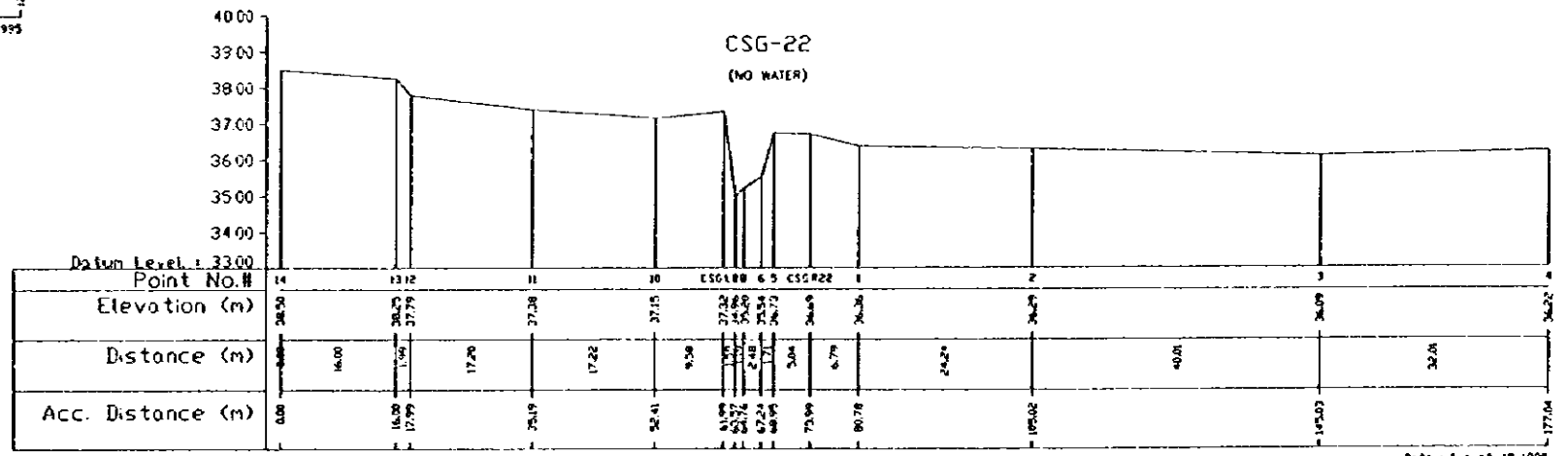
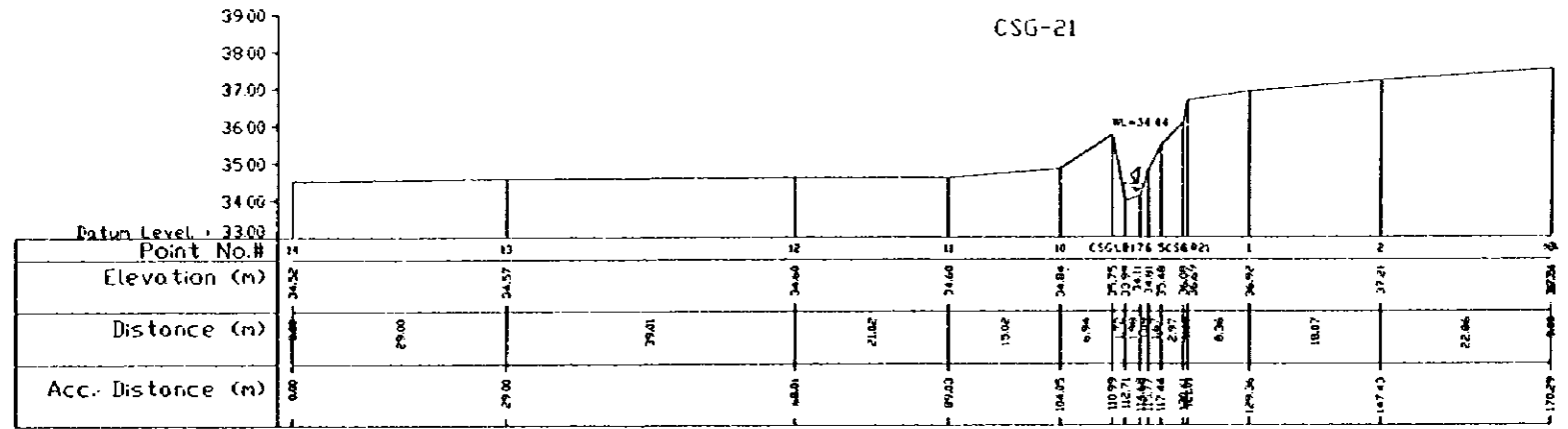
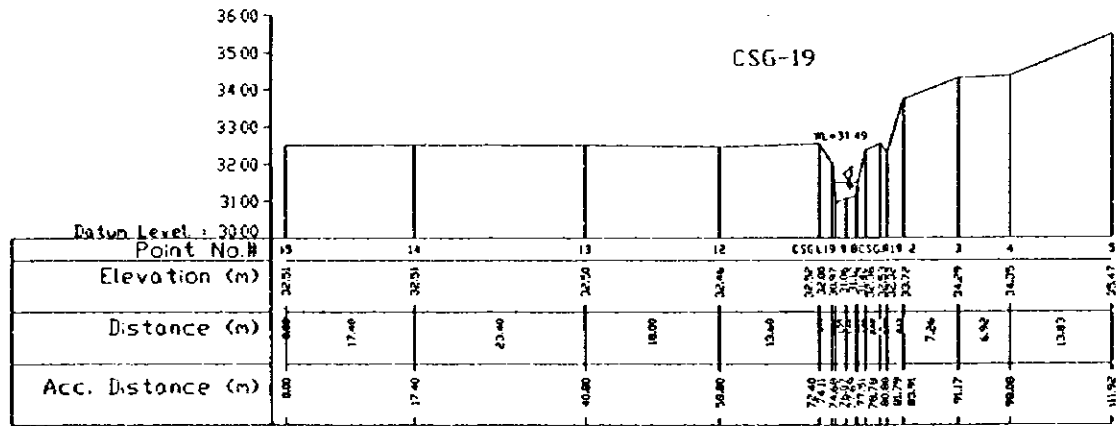
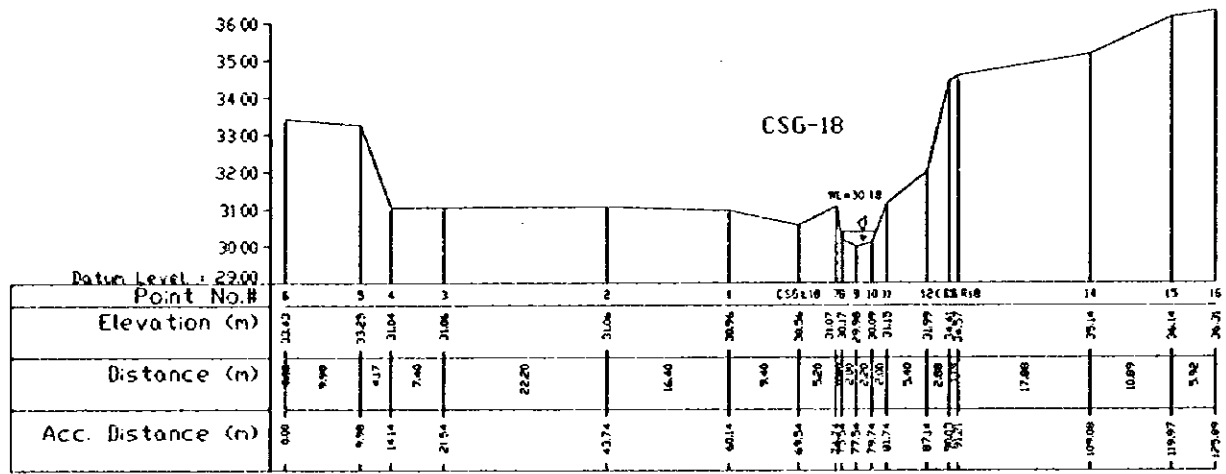
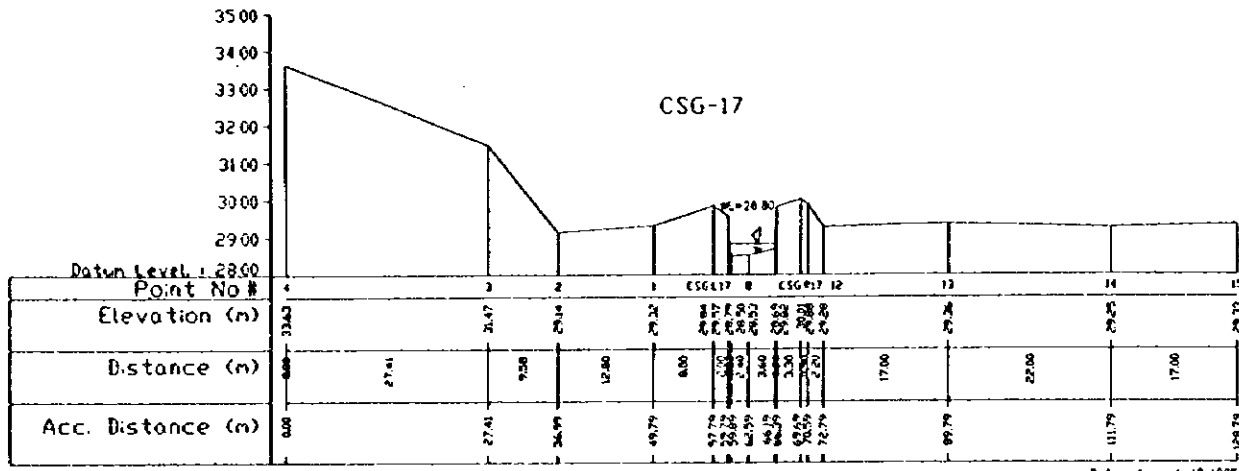
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CISADANG RIVER** Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
Signature: [Signature]	Signature: [Signature]	Horizontal 1 : 500 Vertical 1 : 100	3 of 5

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WATMAN & Associates** JAKARTA - INDONESIA



Reference Point :

The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are :
 TIG 177 ± 0 = WMP - 0.975 meters = PP 4

(IN METERS)
 1 : 100
 1 : 500

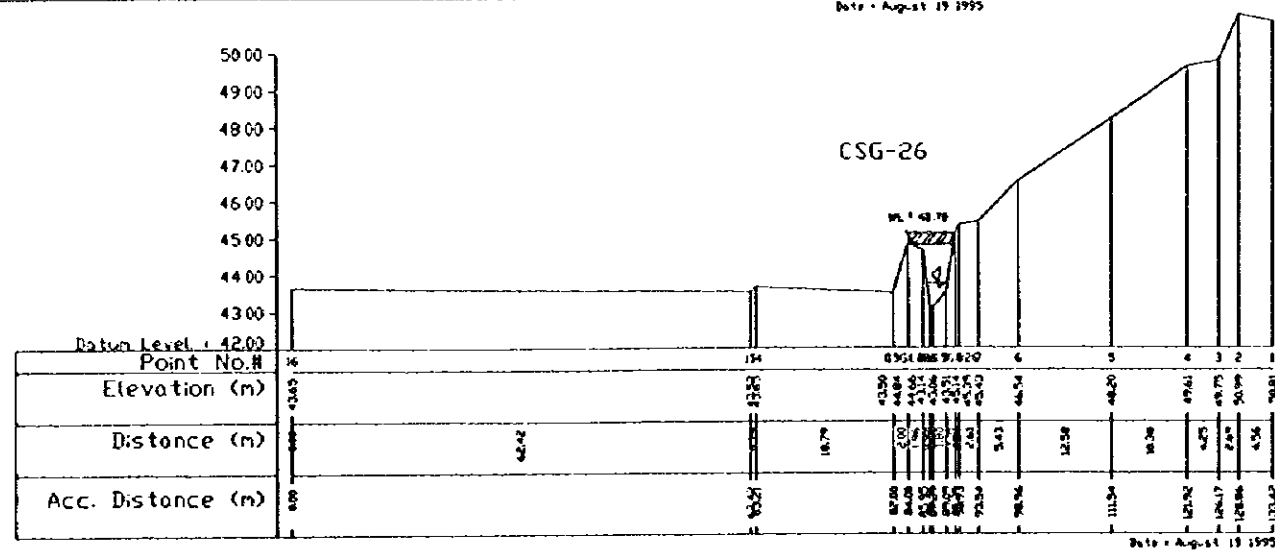
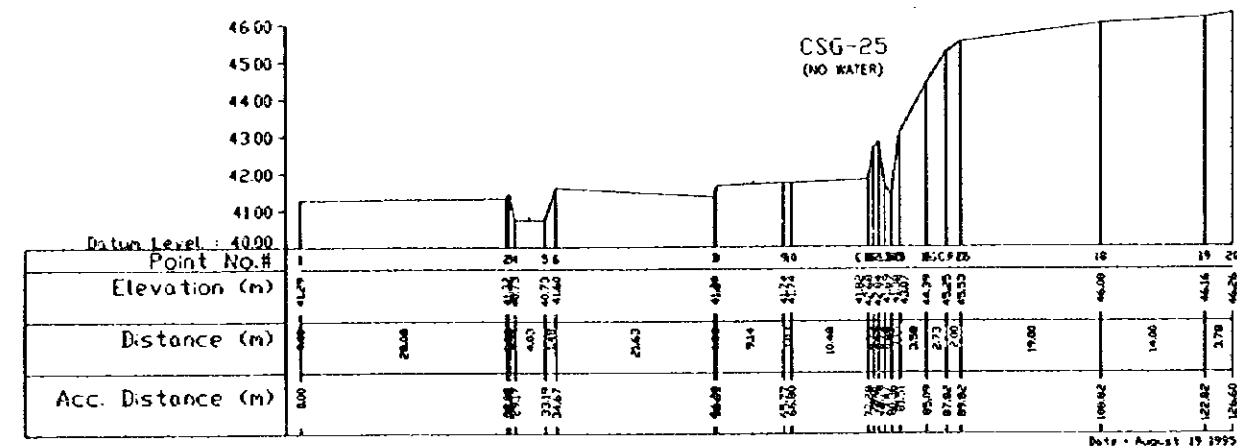
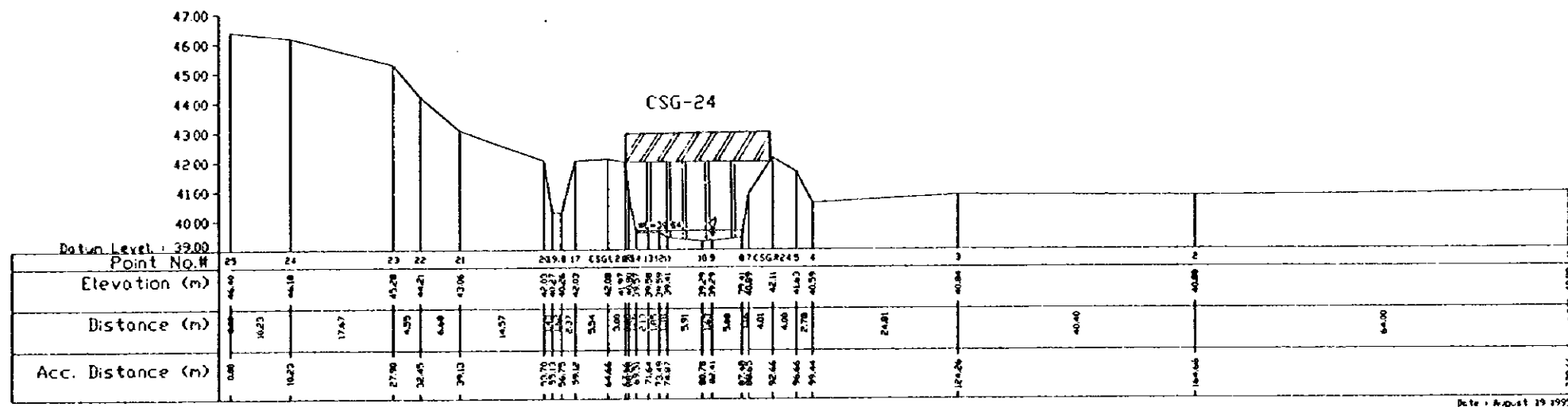
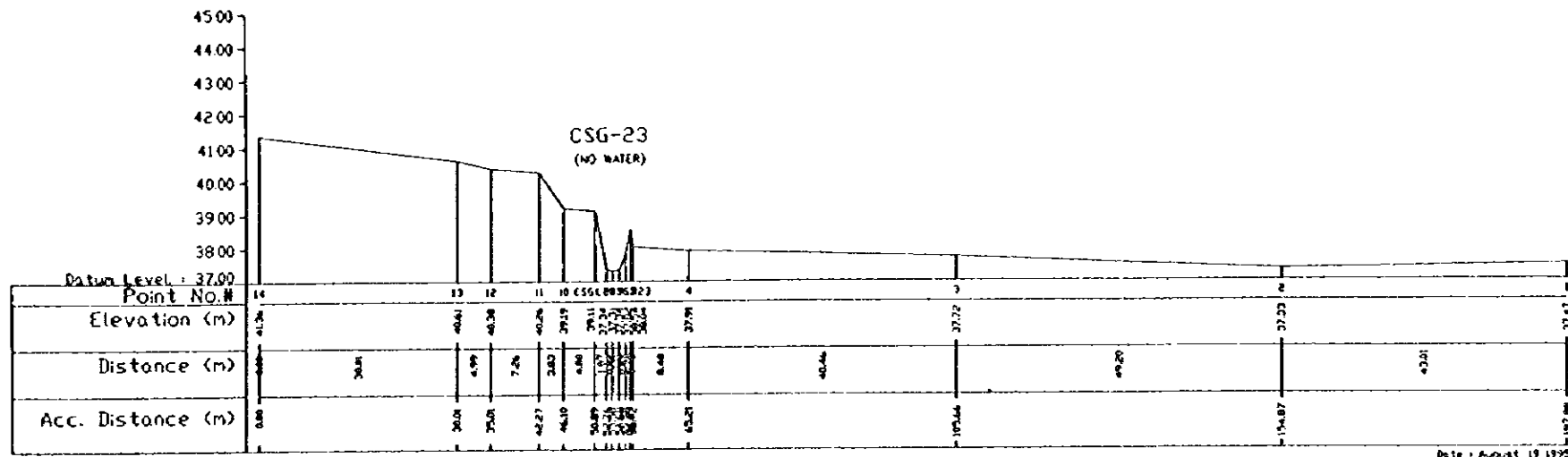
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CISADANG RIVER
 Drawing Title : CROSS SECTION

Checked By	Approved By	Scale	Sheet No
BRUNO SOEPRATO	T. MAN K. TOPIKANE	Horizontal 1 : 500 Vertical 1 : 100	4 of 5

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates
 JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are :
 TIG 177 ± 0 = ANP - 0.975 meters = PP + . . . meter

(IN METERS)
 1 : 100
 1 : 500
 No = 1 500

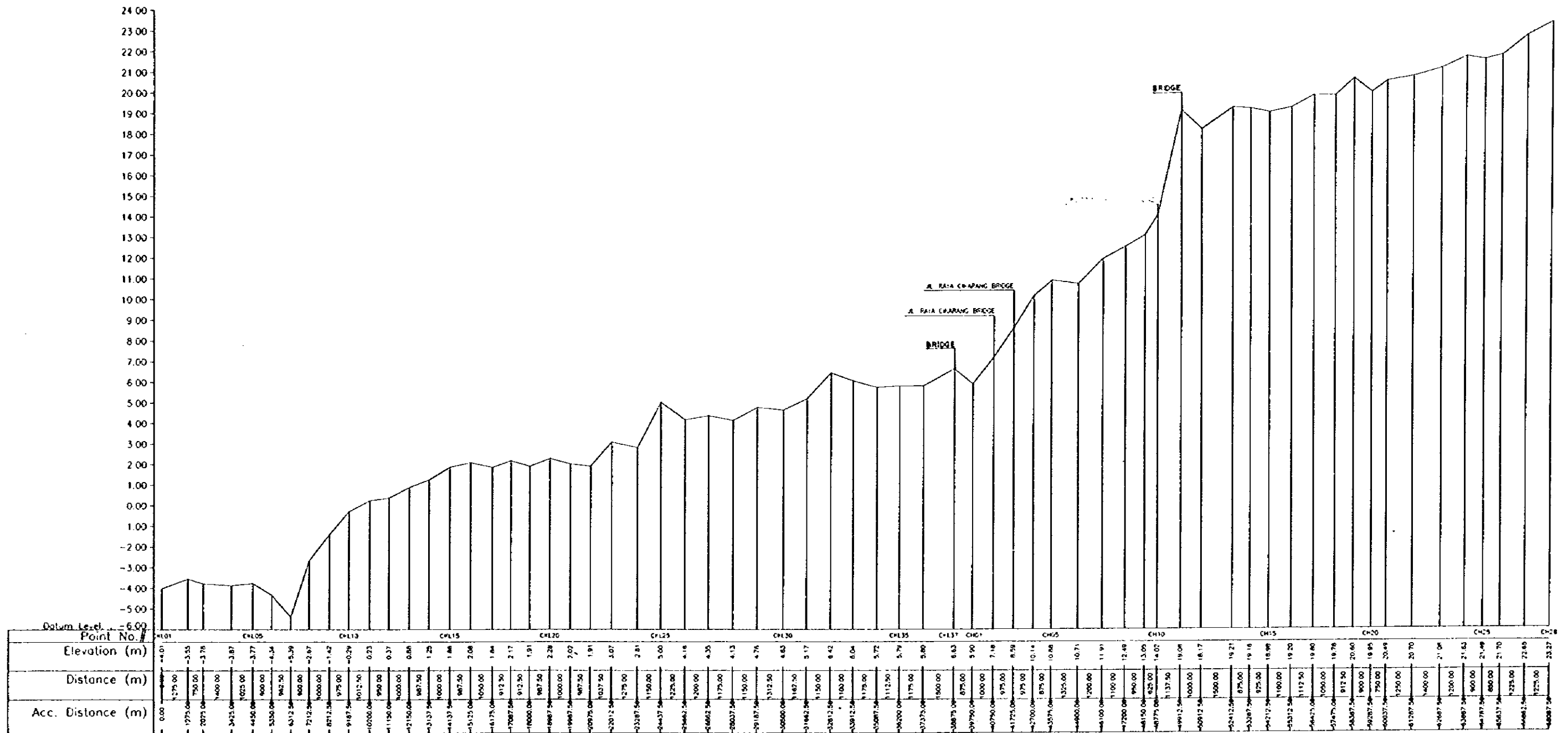
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEX

Name of River : **CISADANG RIVER** Drawing Title : **CROSS SECTION**

Created by	Approved by	Scale	Sheet No
Name : <i>Bahaso</i>	Name : <i>R. TORNAME</i>	Horizontal 1 : 500	5 of 5
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Vertical 1 : 100	
Date : 18.08.95	Date : 21.08.95		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WATMAN & Associates** JAKARTA - INDONESIA



Reference Point
 The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are
 TIG 177 ± 0 = NAD - 0.975 meters + PP ± meter

1:100 (IN METERS)
 Scale: 1:100000 (Horizontal), 1:100 (Vertical)
 Page: 1 of 1

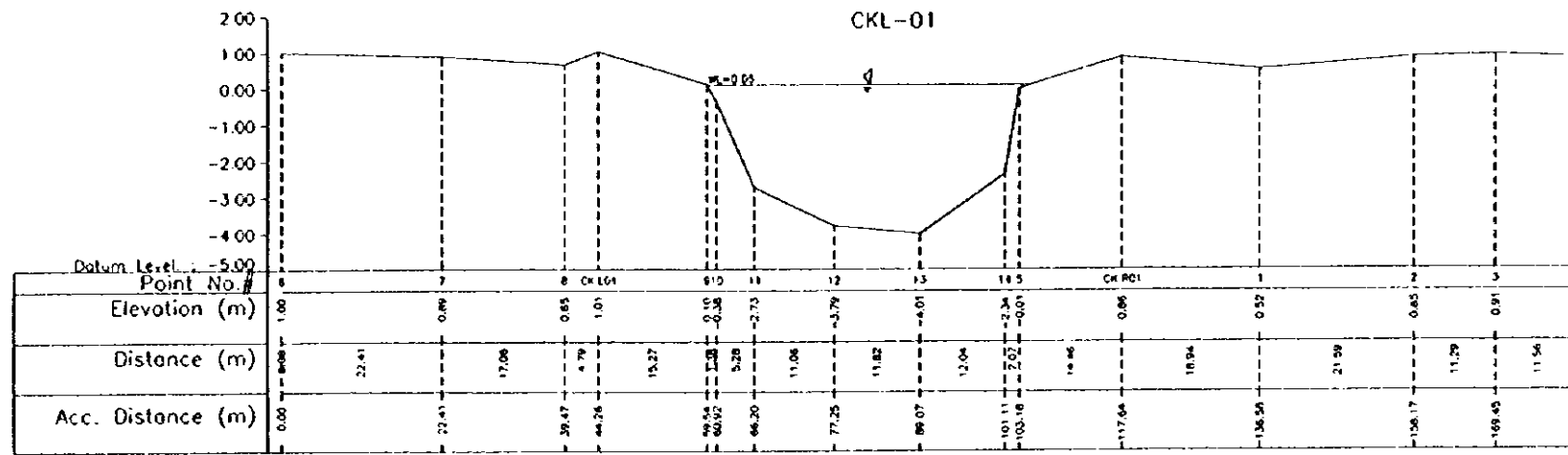
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

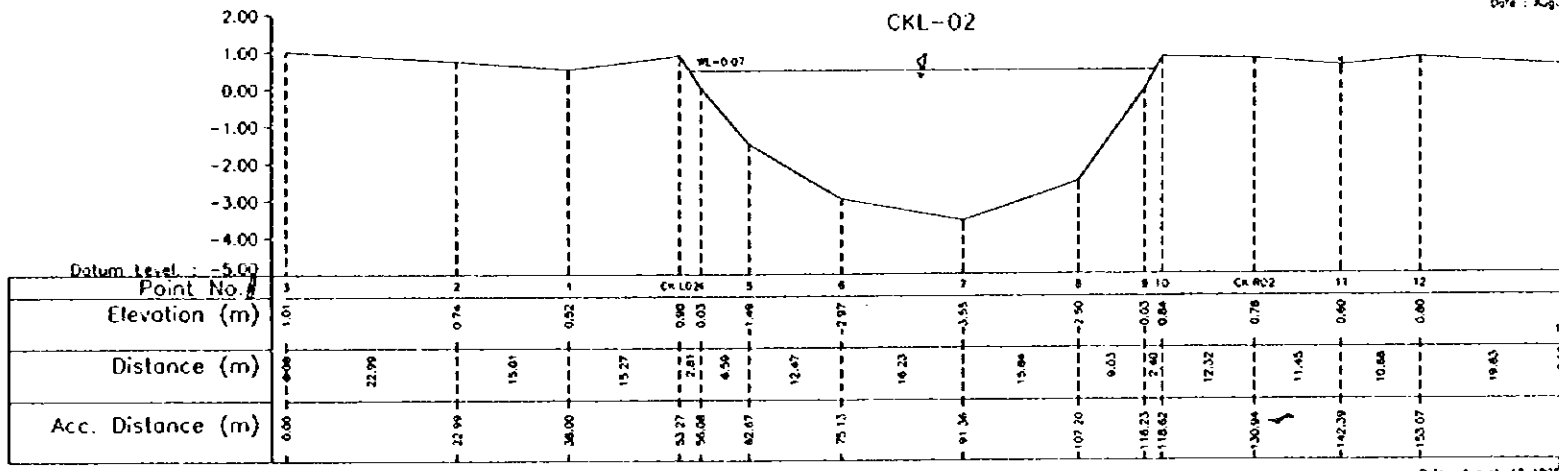
Name of River : **CIKARANG RIVER**
 Drawing Title : **LONGITUDINAL PROFILE**

Checked by : *[Signature]*
 Approved by : *[Signature]*
 Date : 25.11.2015

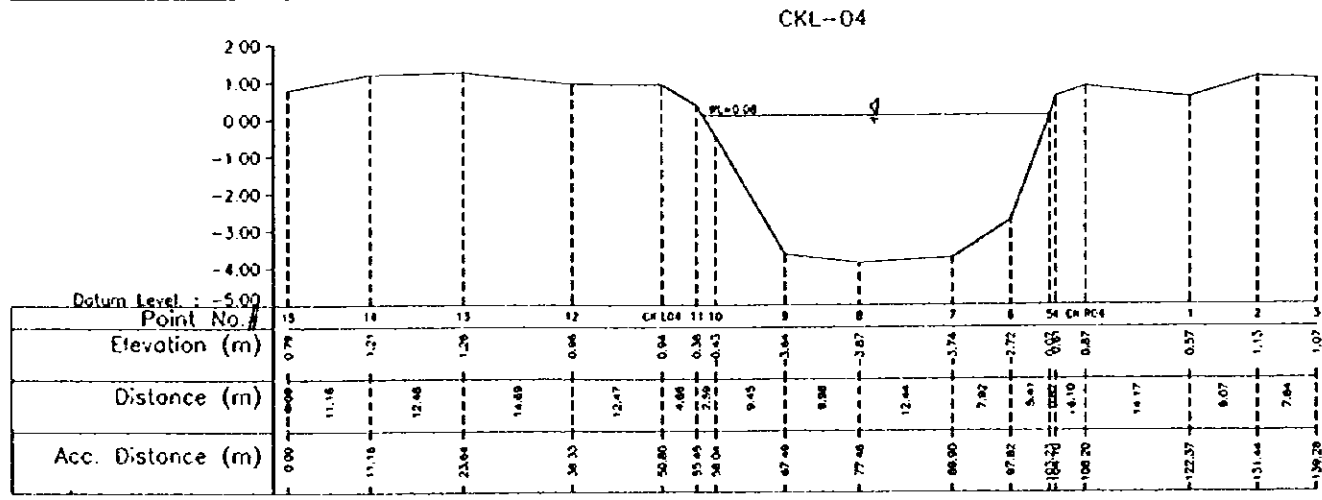
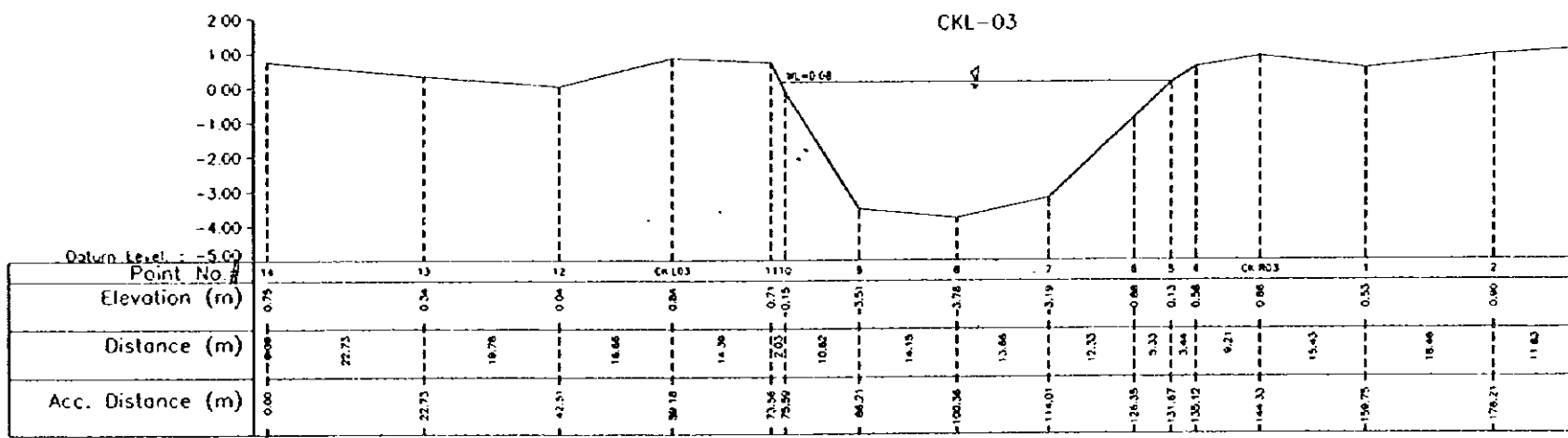
JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WIRATAMA & Associates
 JAKARTA - INDONESIA



Date: August 19 1995



Date: August 18 1995



Date: August 18 1995

Reference Point
 The Elevation is referred to BTO 177 = 43.136 meters
 The correlation between other system are
 BTO 177 ± 0 = NWP - 0.975 meters = PP + ... meter

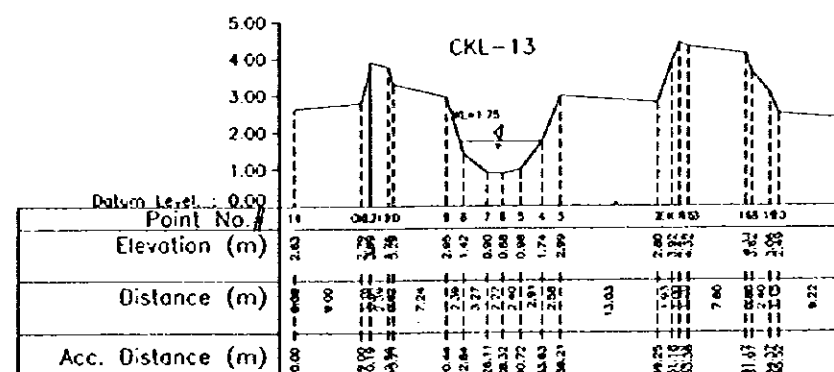
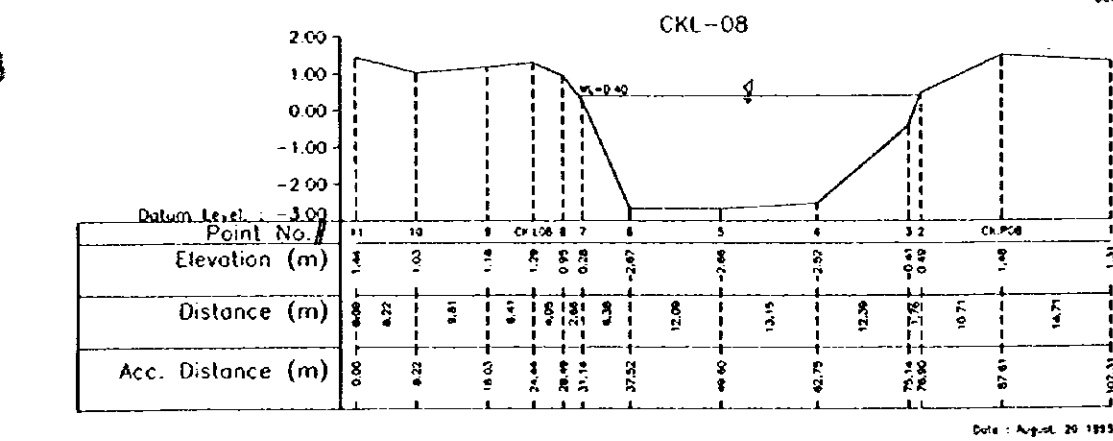
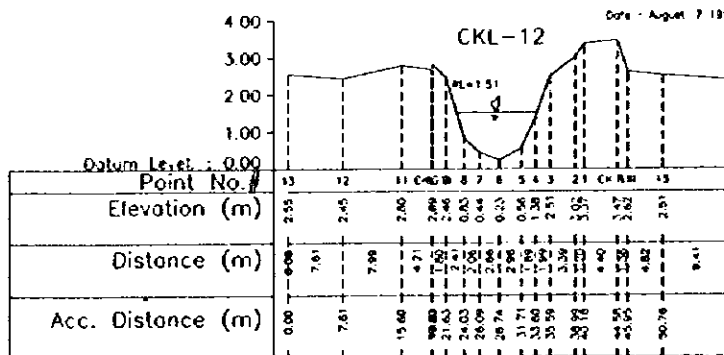
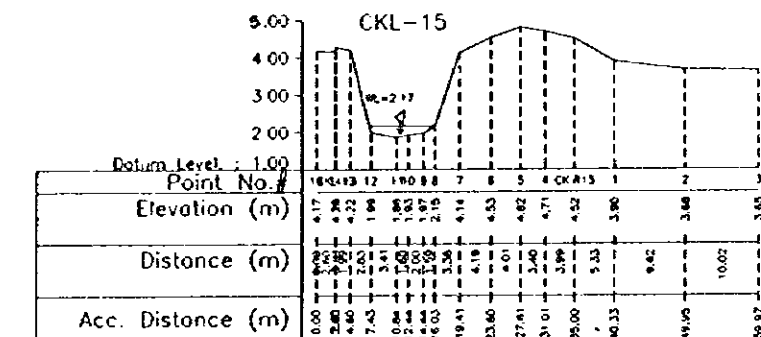
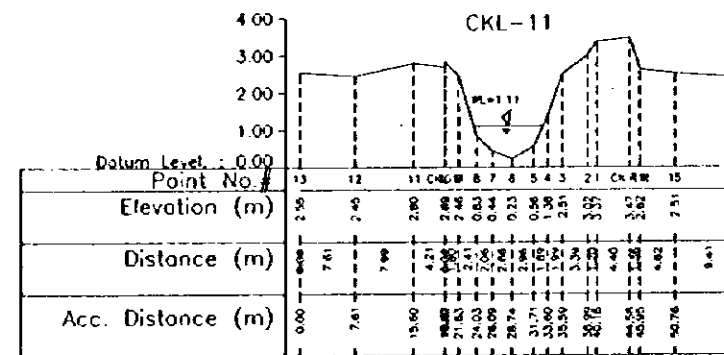
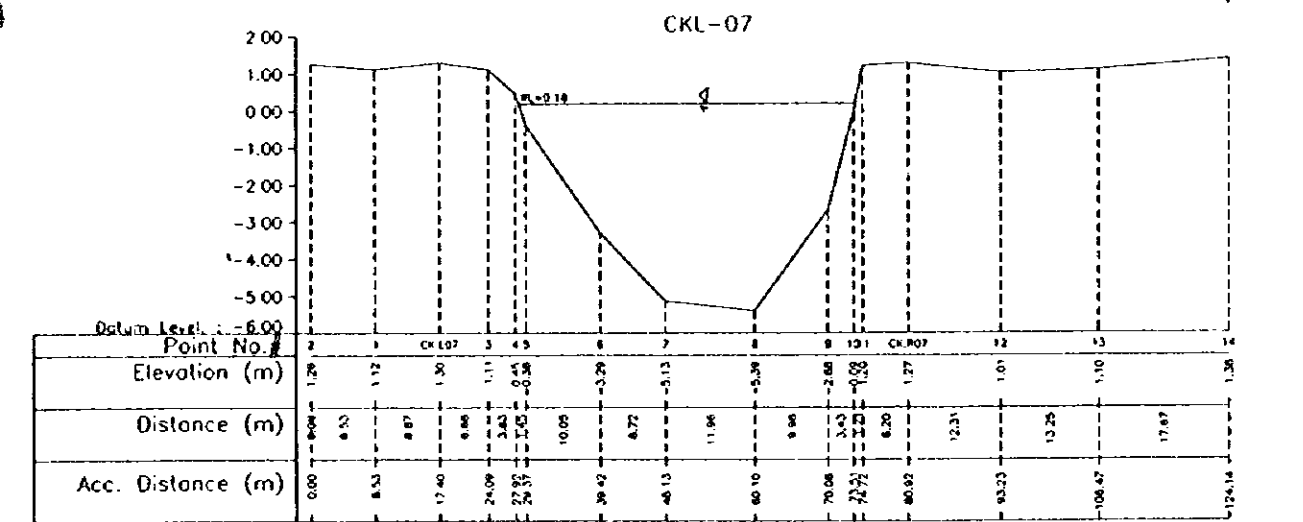
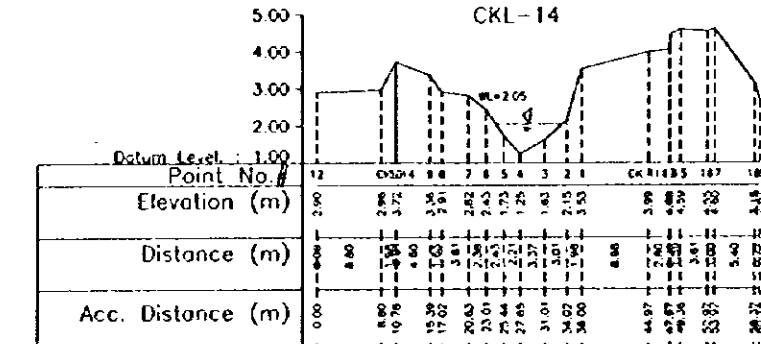
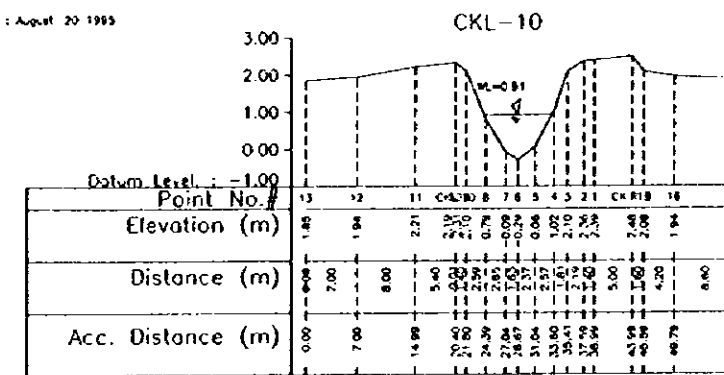
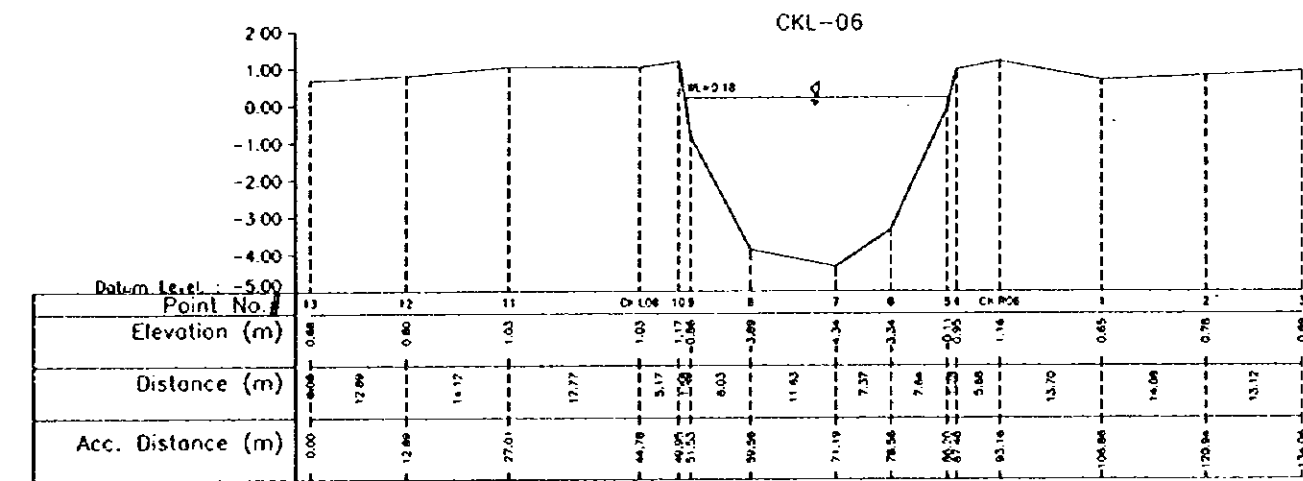
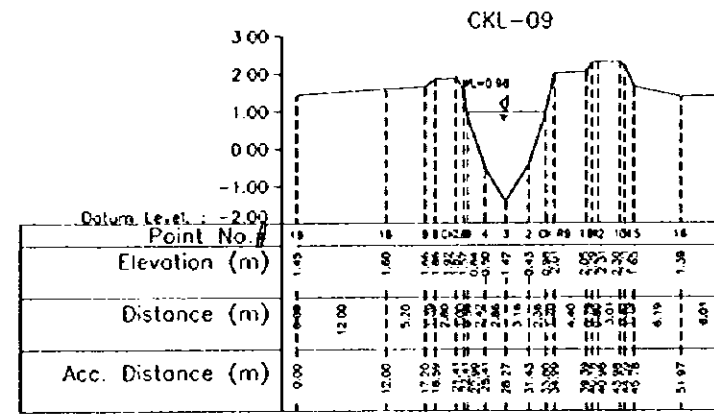
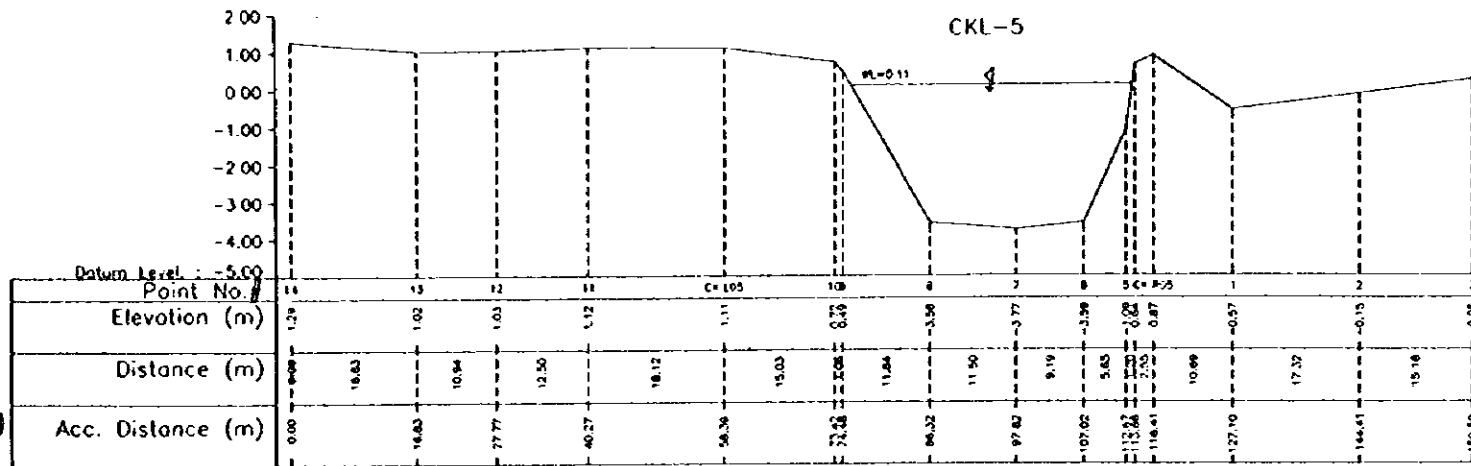
(IN METERS)
 1:100
 1:500

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CIKARANG RIVER (LOWER)		Drawing Title : CROSS SECTION	
Checked by Name: <i>BIRNO SOEGARDI</i> Signature: <i>[Signature]</i> Date: <i>18.11.95</i>	Approved by Name: <i>[Signature]</i> Signature: <i>[Signature]</i> Date: <i>18.11.95</i>	Scale Horizontal: 1 : 500 Vertical: 1 : 100	Sheet No. 1 of 5

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WATAMAN & Associates** JAKARTA - INDONESIA



Reference Point: The Elevation is referred to ITG 177 = 43136 meters. The correlation between other system are: ITG 177 ± 0 = NAD - 0.975 meters = PP ± ... meter

(IN METERS)

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

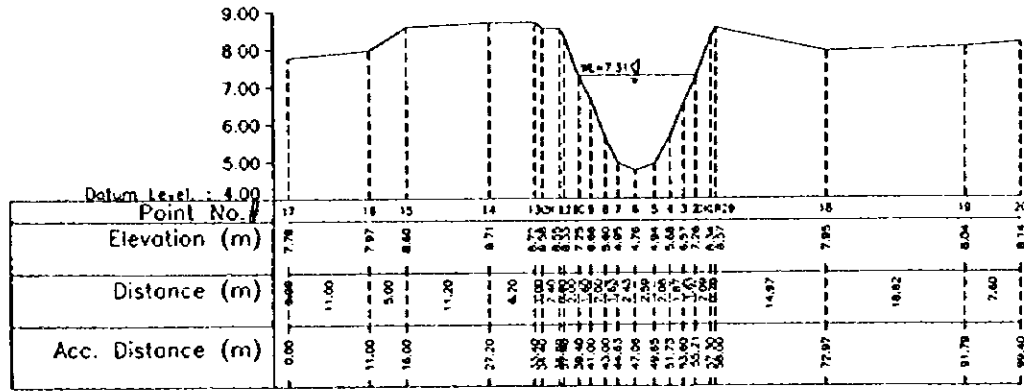
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CIKARANG RIVER (LOWER)** Drawing Title : **CROSS SECTION**

Checked by : [Signature] Approved by : [Signature] Scale : Horizontal 1 : 500 Sheet No : 2 of 5

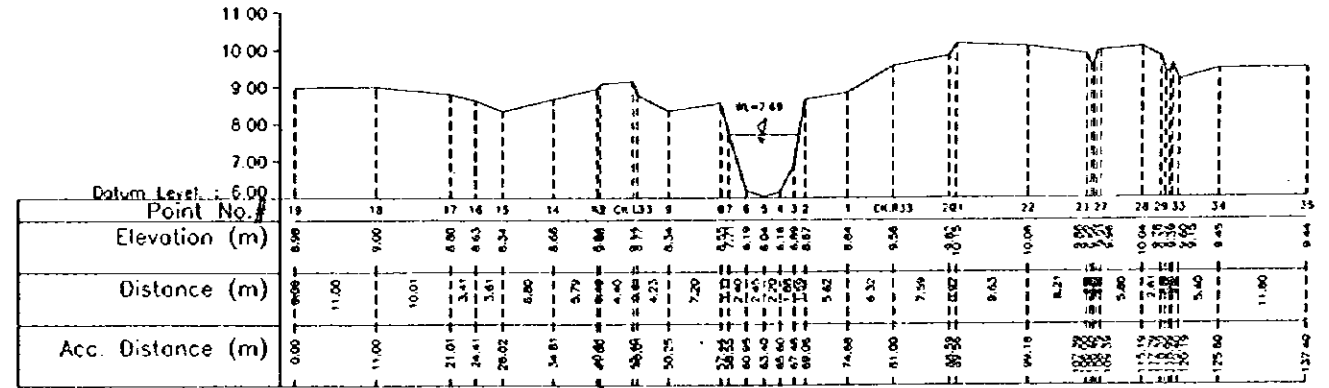
JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIATMAN & Associates** JAKARTA -- INDONESIA

CKL-29



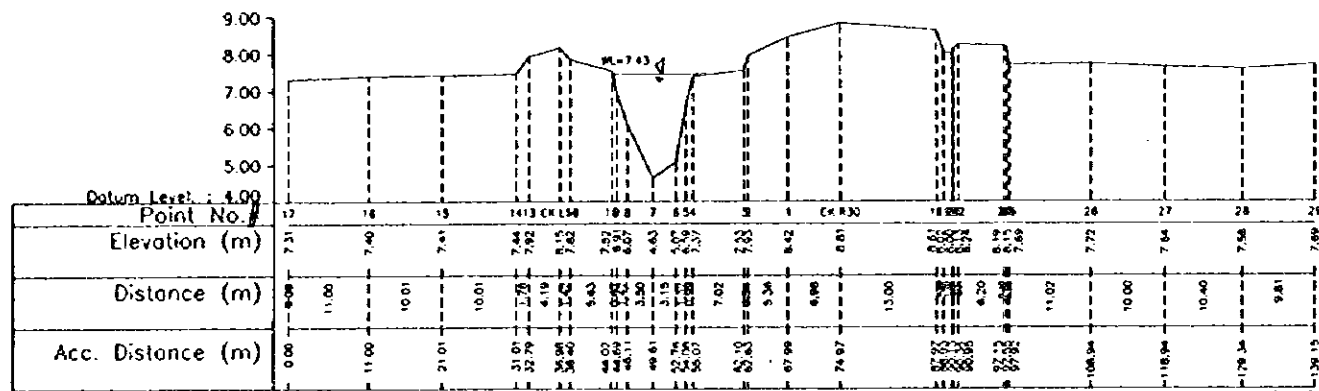
Date : August 2 1995

CKL-33



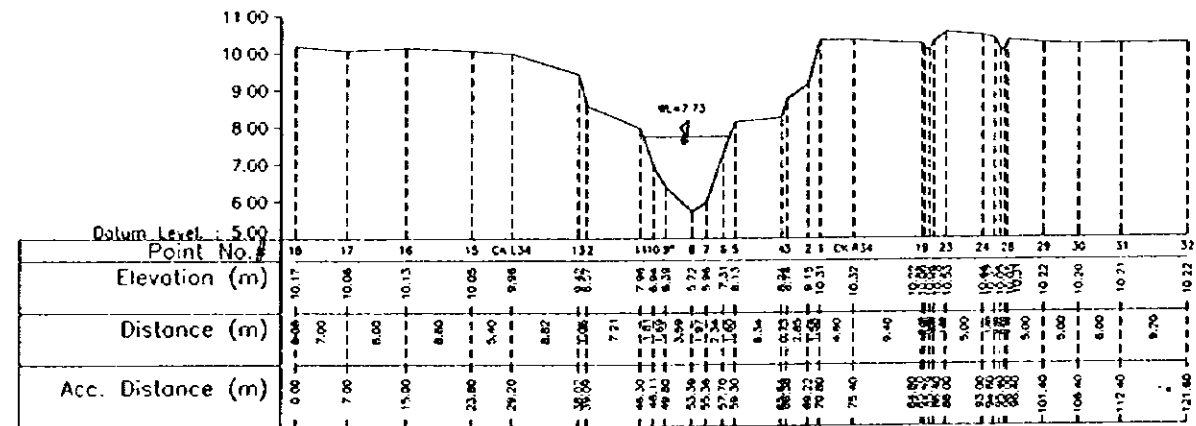
Date : August 1 1995

CKL-30



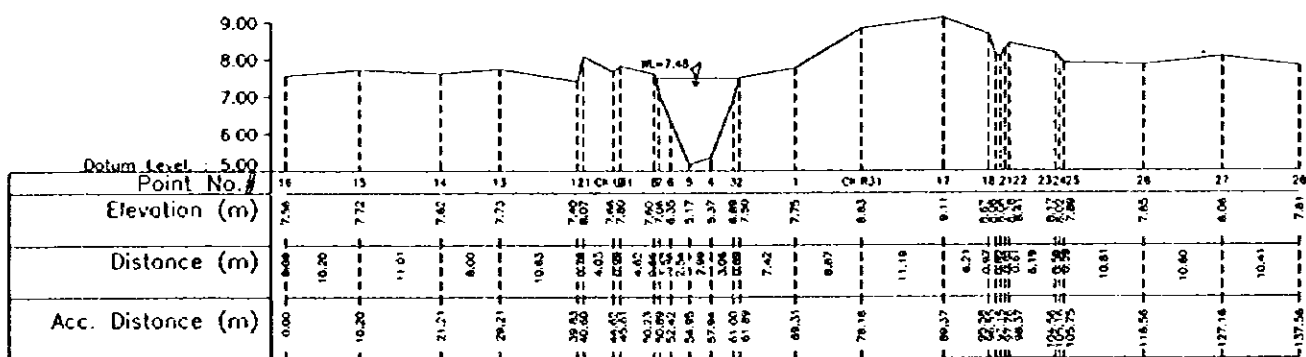
Date : August 2 1995

CKL-34



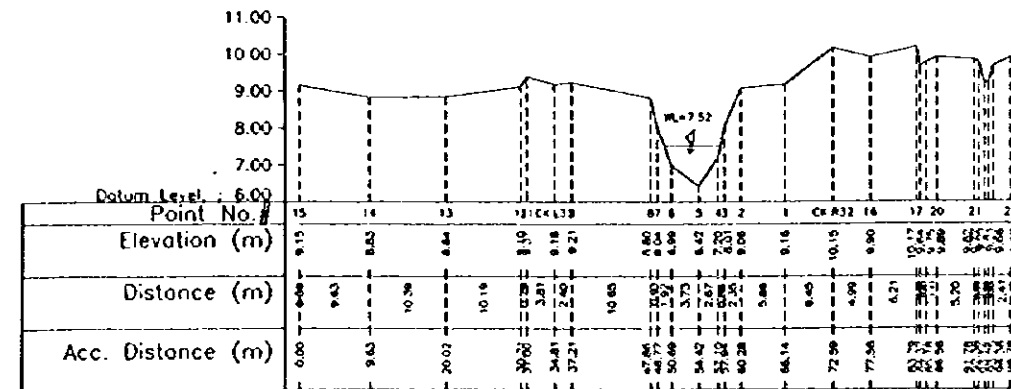
Date : August 1 1995

CKL-31



Date : August 2 1995

CKL-32



Date : August 2 1995

Reference Point :
 The Elevation is referred to TIG 127 = 40.136 meters
 The correlation between other system are
 TIG 127 ± 0 = NXP = 0.975 meters + PP ± meter

(IN METERS)
 1:100
 1:500
 1:1000

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

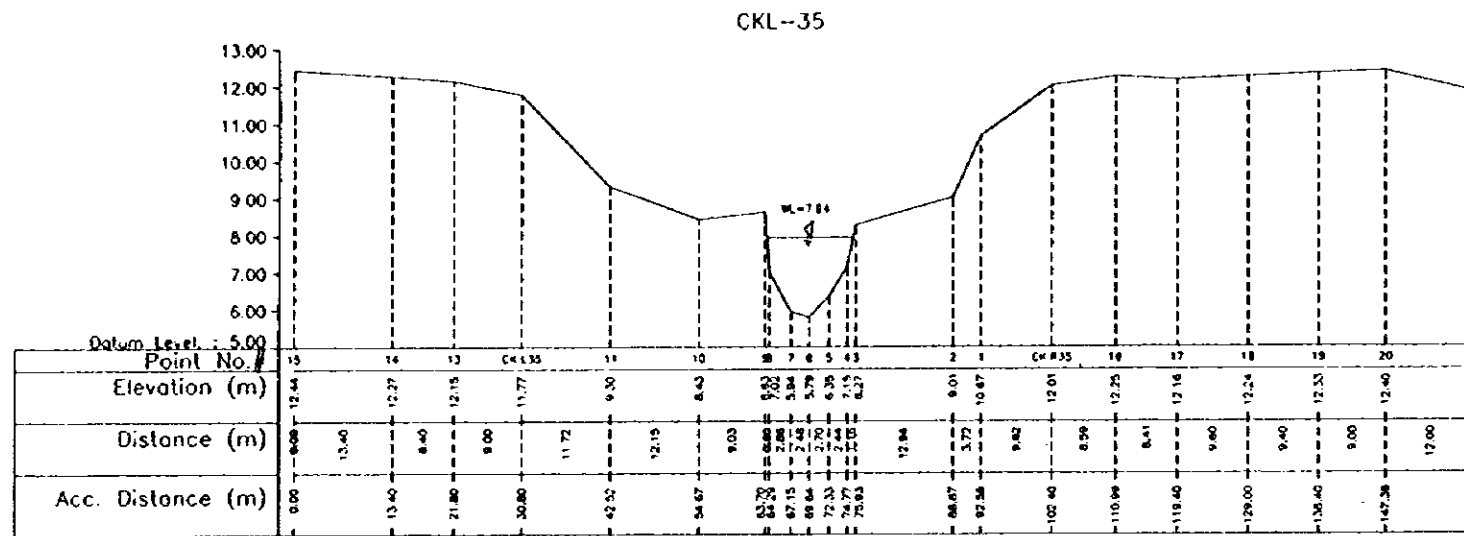
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CIKARANG RIVER (LOWER)**
 Drawing Title : **CROSS SECTION**

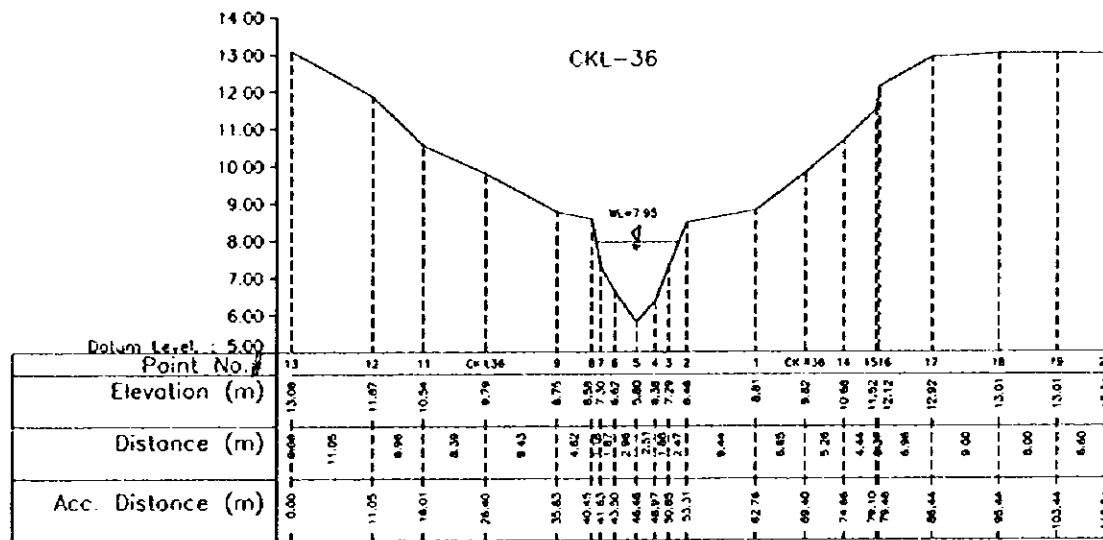
Checked by	Approved by	Scale	Sheet No
BRANDY SOEJATNO	T. NUNU	Horizontal 1 : 500 Vertical 1 : 100	4 of 5

Date : 29.11.95

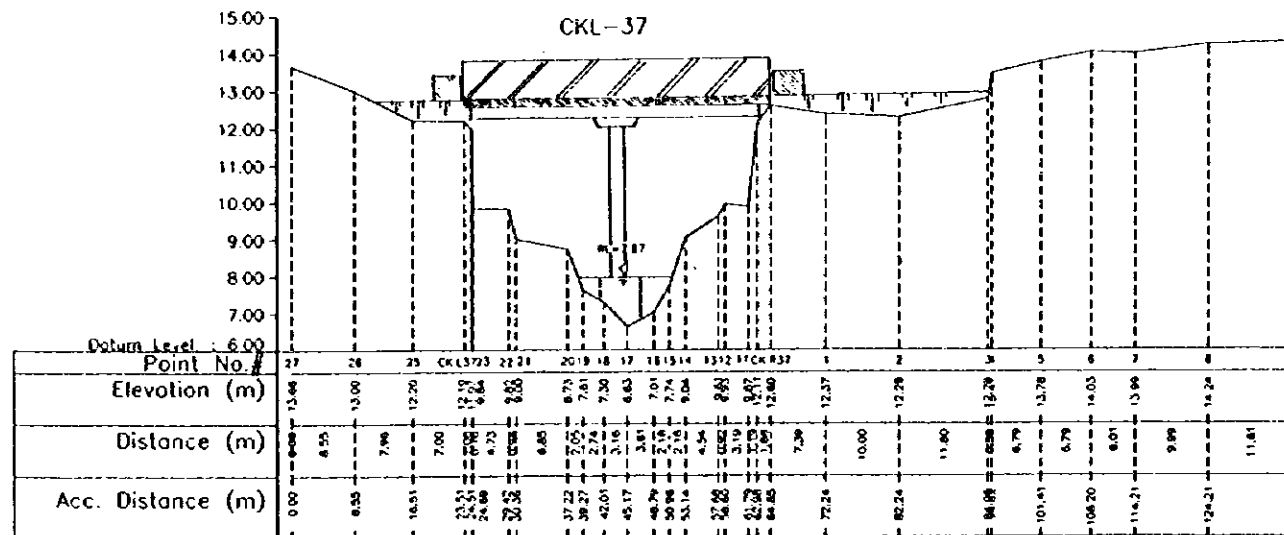
JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIJAYMAN & Associates
 JAKARTA - INDONESIA



Date: Aug. 1 1995

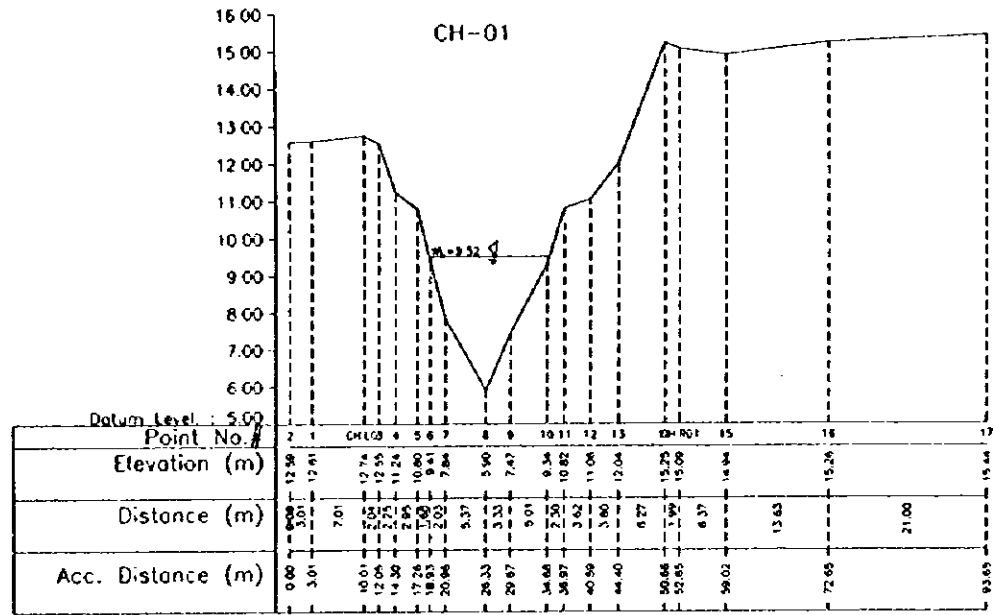


Date: August 1 1995

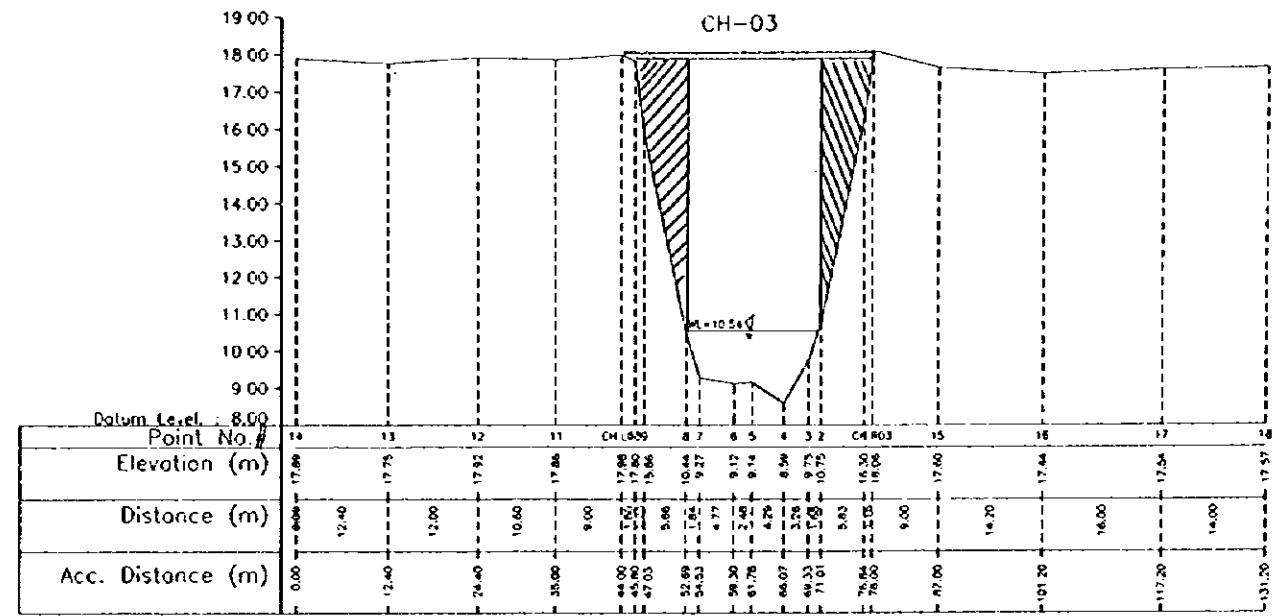


Date: August 1 1995

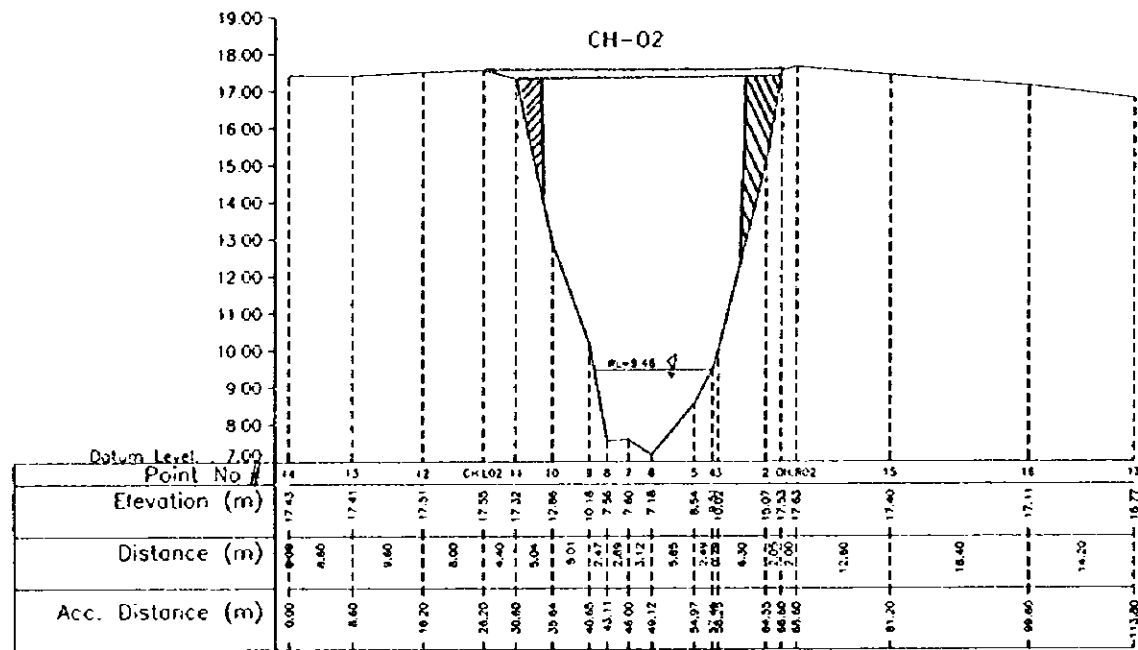
Reference Point: The Elevation is referred to TIG 177 = 40.136 meters The correlation between other system are: TIG 177 ± 0 = NAP - 0.975 meters = PP ± ... meter		(IN METERS) 	
MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
Name of River : CIKARANG RIVER (LOWER)		Drawing Title : CROSS SECTION	
Checked by : 		Approved by : 	
Name : Signature : Date :		Scale : Horizontal 1 : 500 Vertical 1 : 100	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WIJATMAN & Associates JAKARTA - INDONESIA	
		Sheet No : 5 of 5	



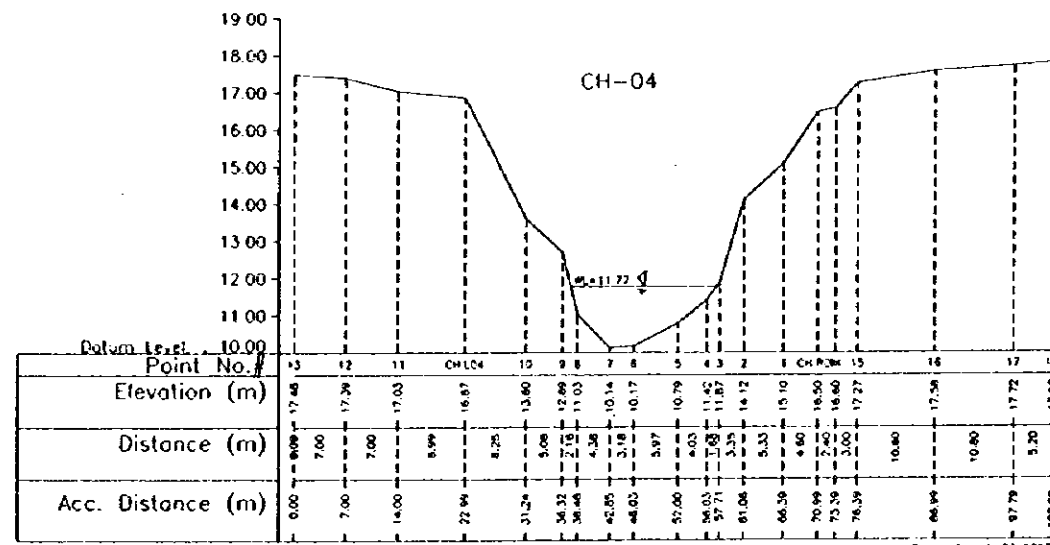
Date : August 20 1995



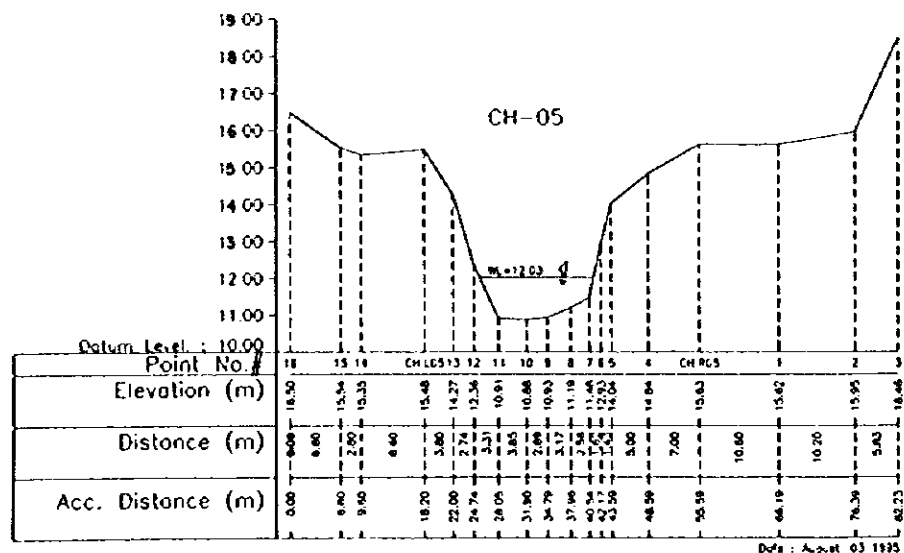
Date : August 02 1995



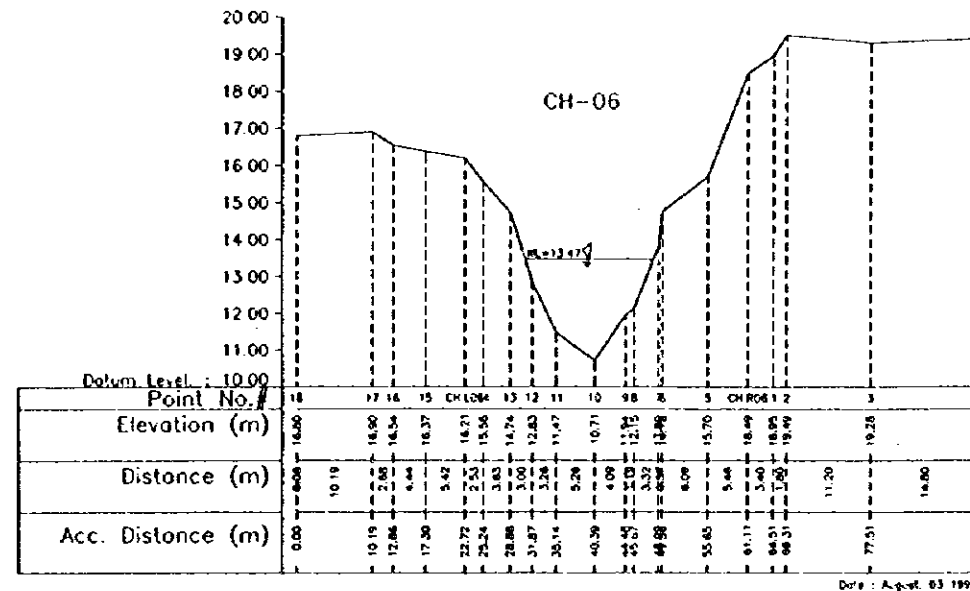
Date : August 02 1995



Date : August 02 1995



Date : August 03 1995



Date : August 03 1995

Reference Point :
 The Elevation is referred to TIG 177 = 43136 meters
 The correlation between other system are :
 TIG 177 ± 0 = NKP - 0.975 meters = PP ± 0 meter

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

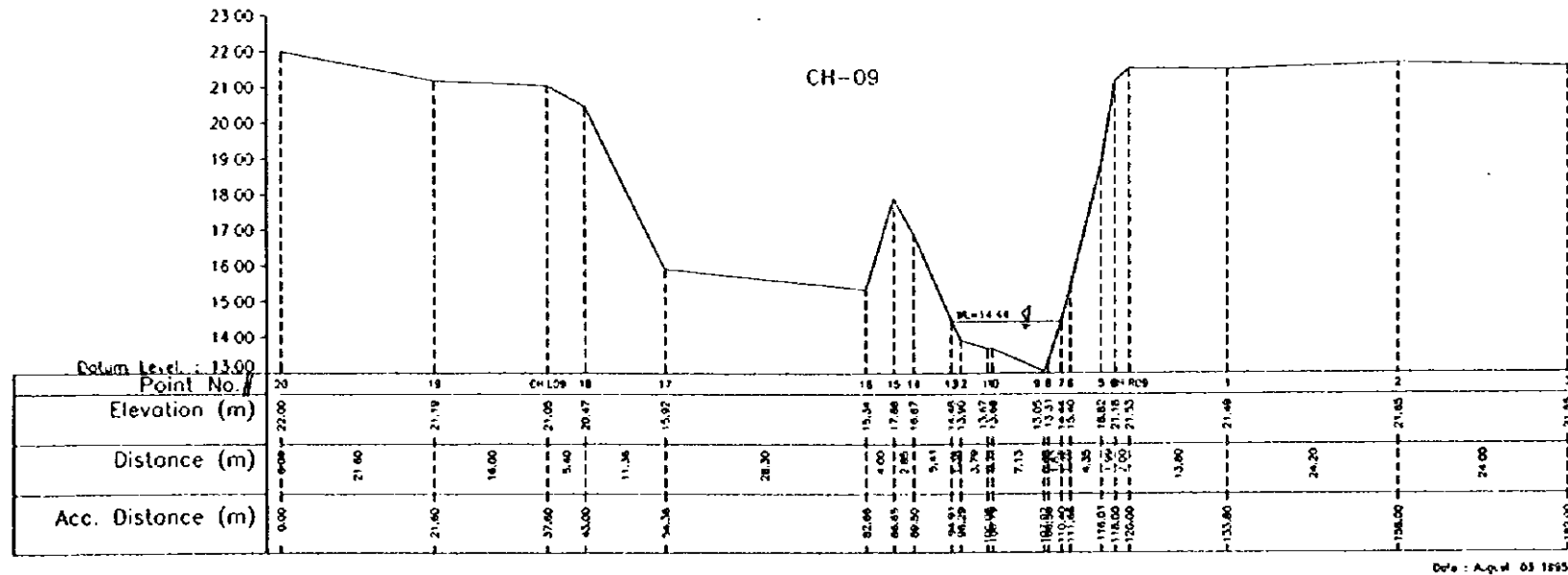
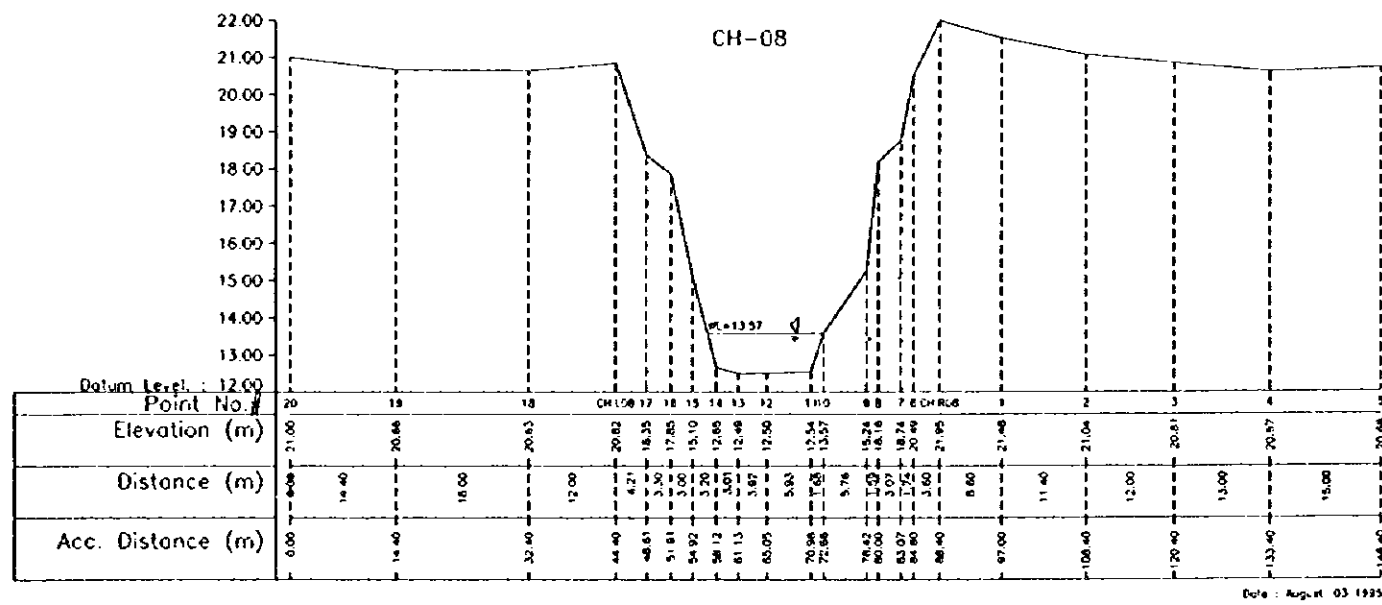
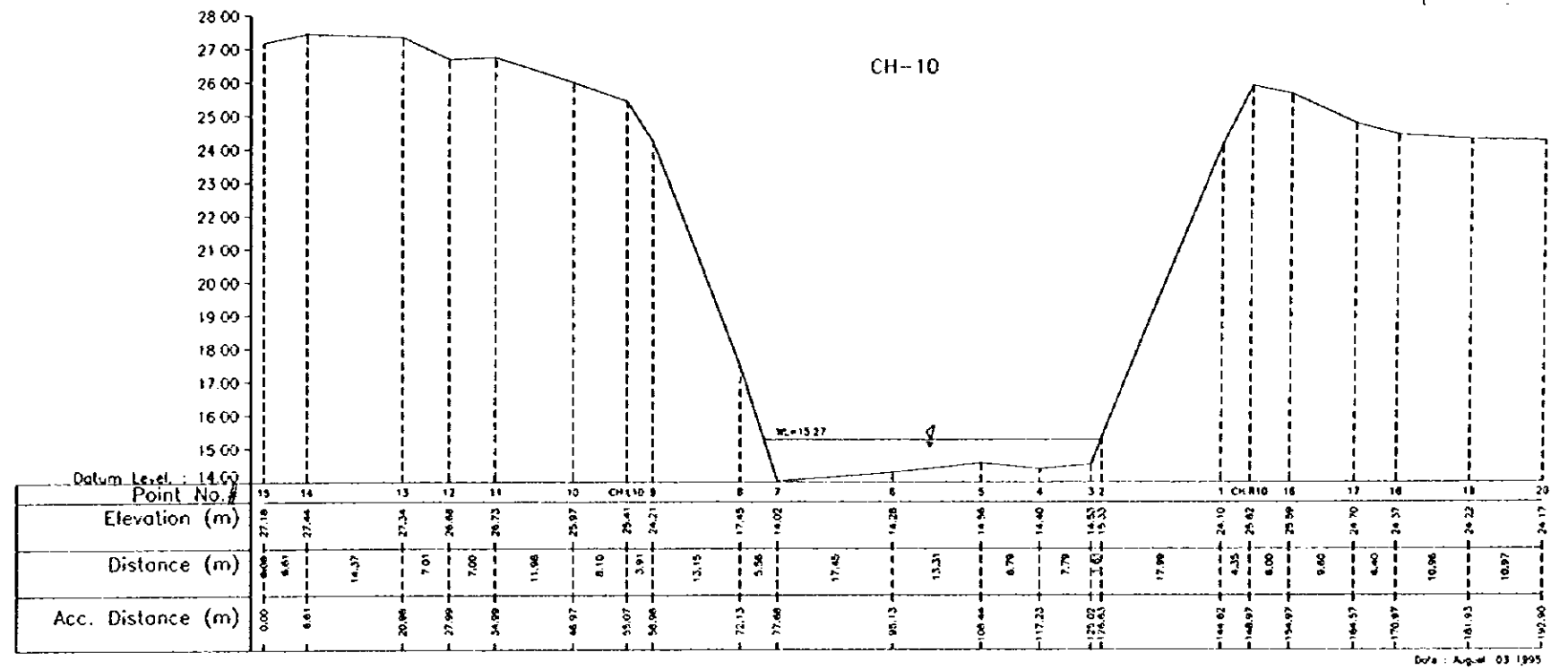
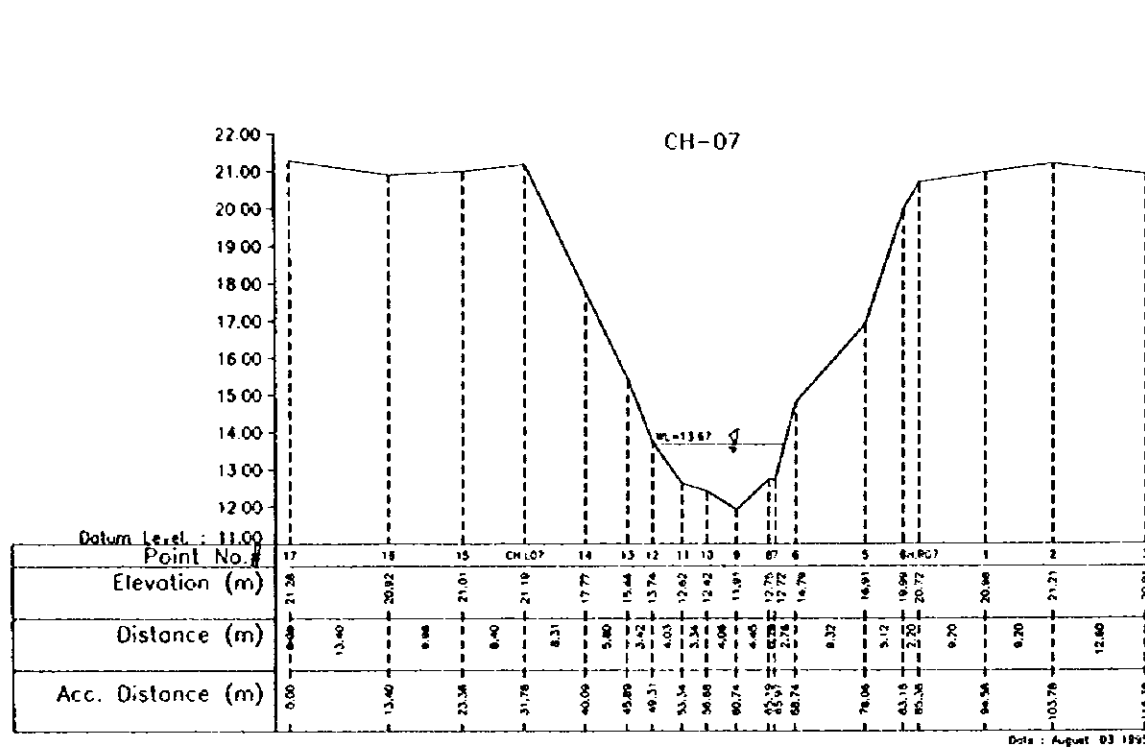
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CIKARANG RIVER (UPPER)** Drawing Title : **CROSS SECTION**

Checked by : *[Signature]* Approved by : *[Signature]* Scale : Sheet No. : **1 of 6**

Date : *16-08-95* Date : *21-08-95*

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WHATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to FTG 177 = 40.136 meters
 The correlation between other system are
 FTG 177 ± 0 = HWP - 0.975 meters = PP + meter

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

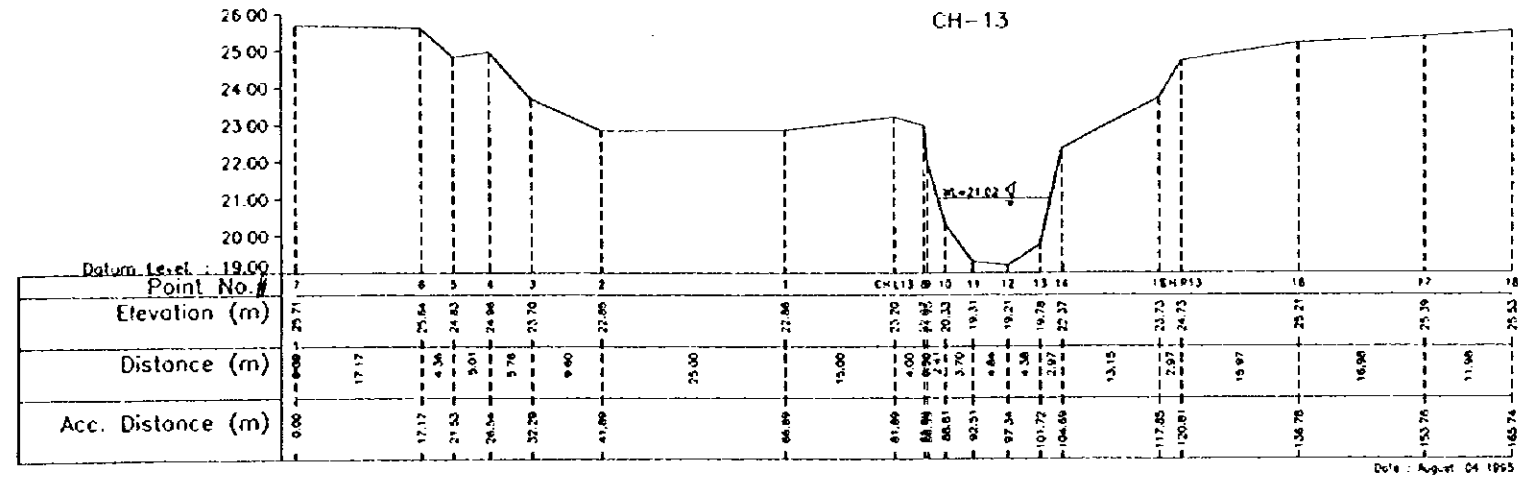
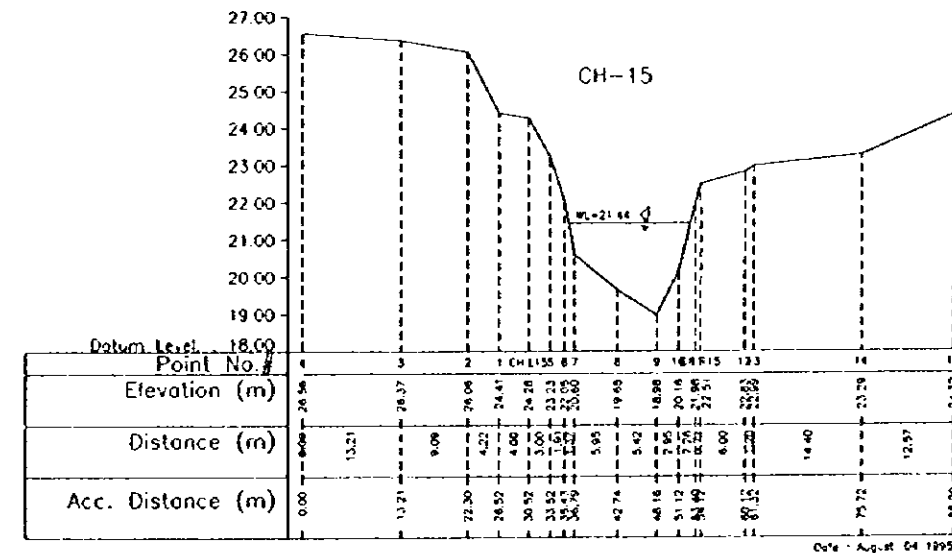
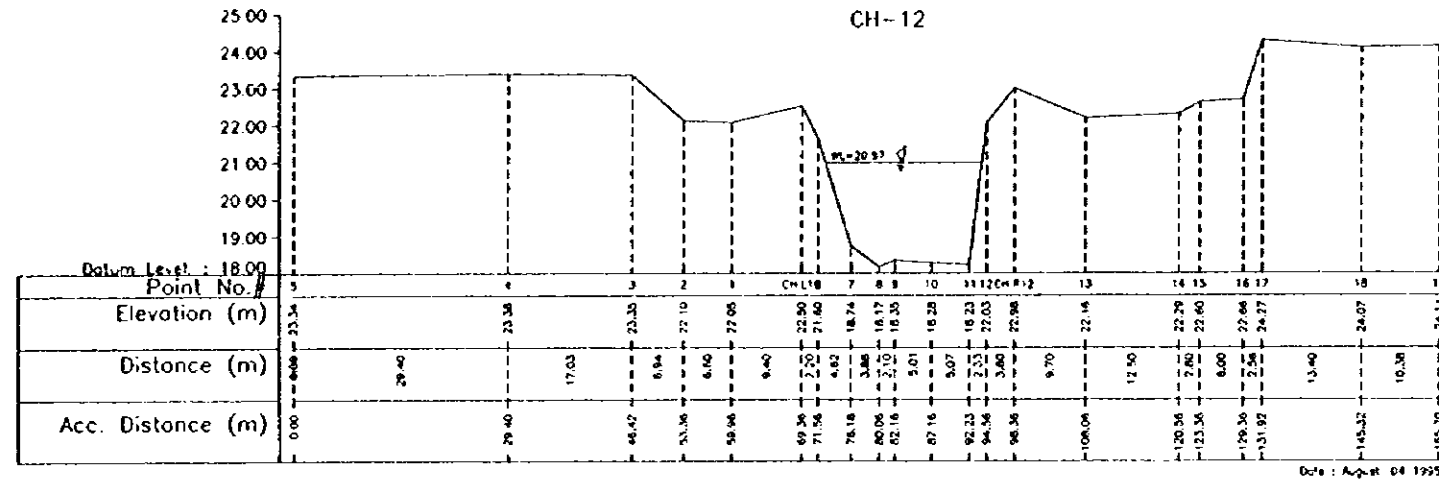
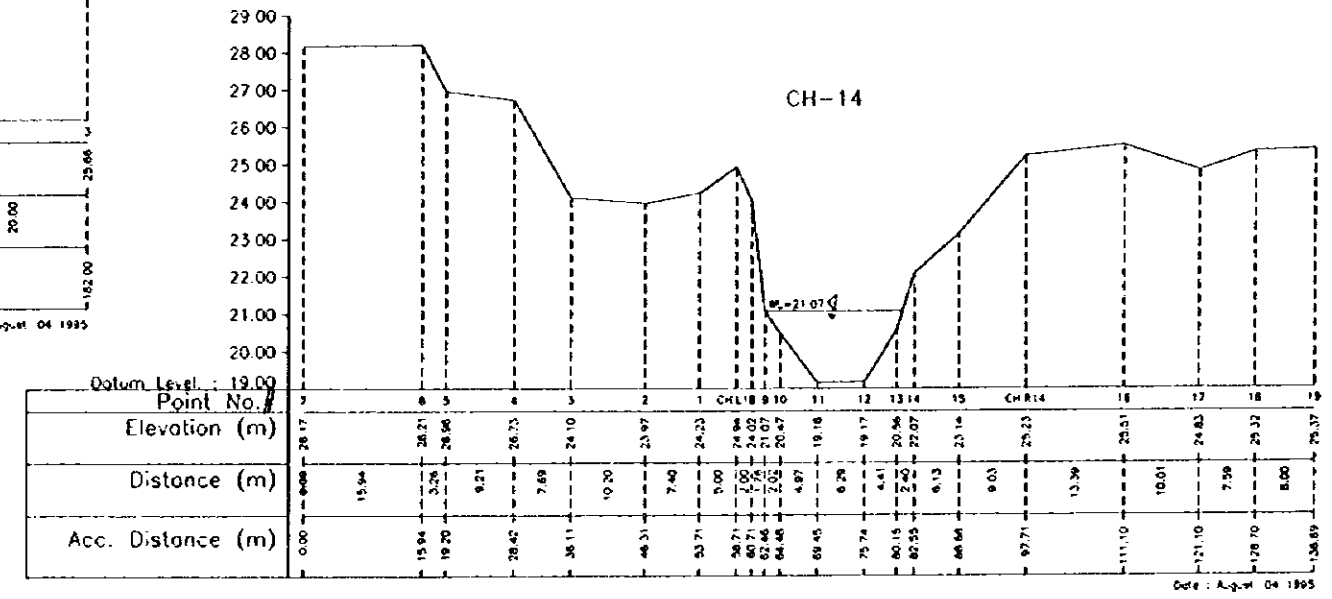
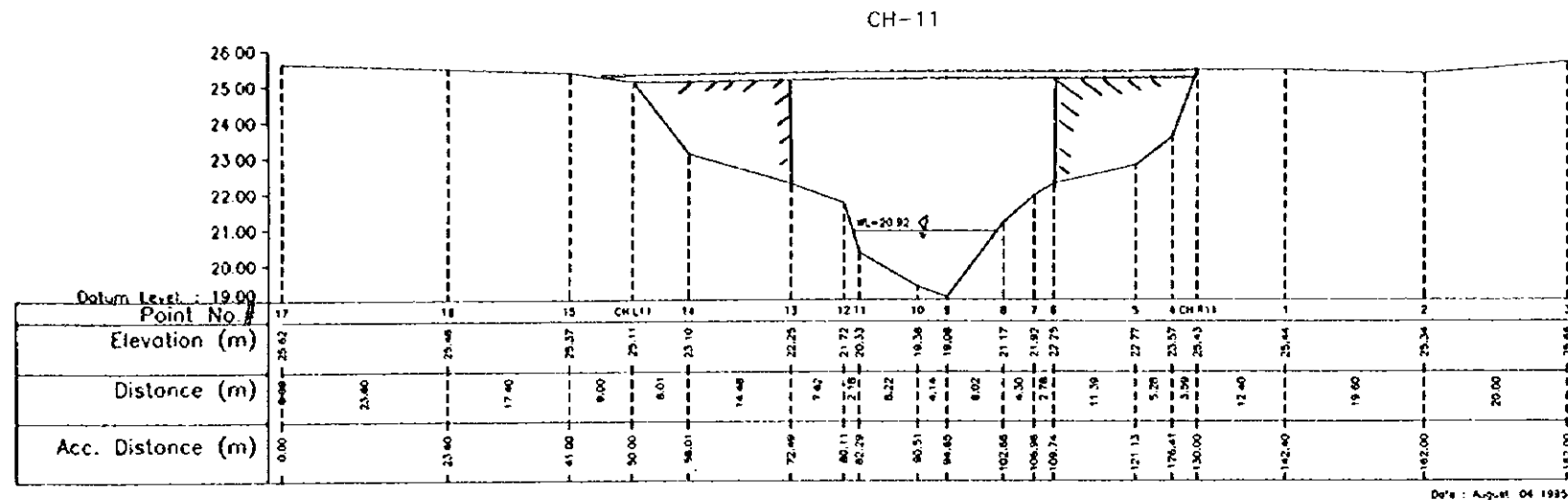
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CIKARANG RIVER (UPPER) Drawing Title : CROSS SECTION

Checked by : [Signature] Approved by : [Signature] Scale : Horizontal 1 : 500 Sheet No : 2 of 6

Date : 12.8.95 17.11.95 21.11.95 Vertical 1 : 100

JICA JAPAN INTERNATIONAL COOPERATION AGENCY WIRATMAN & Associates JAKARTA - INDONESIA



Reference Point:
 The Elevation is referred to TIG 177 = 43.136 meters
 The correlation between other system are
 TIG 177 ± 0 = h.m.p. - 0.975 meters = P.P. + . . . meter

(IN METERS)

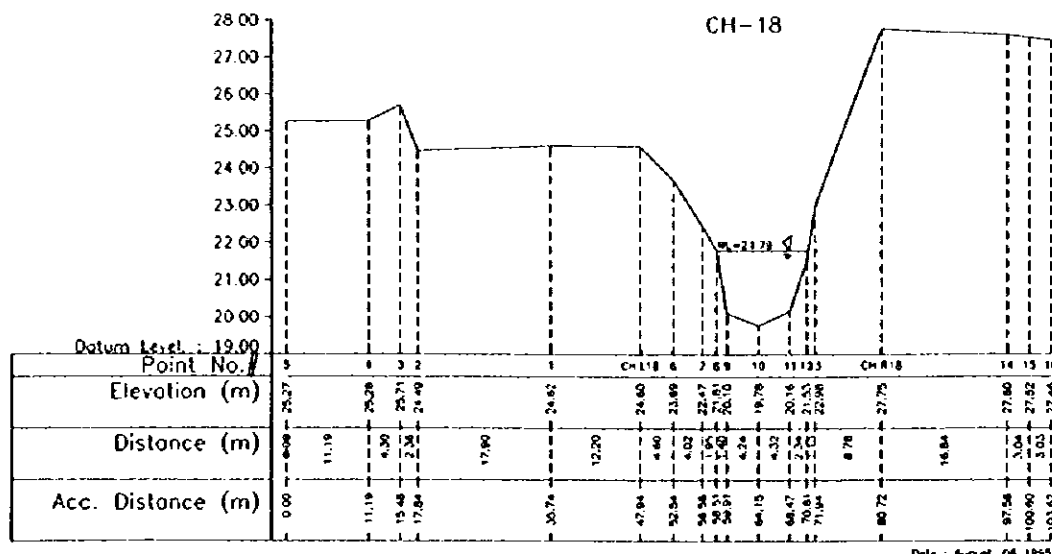
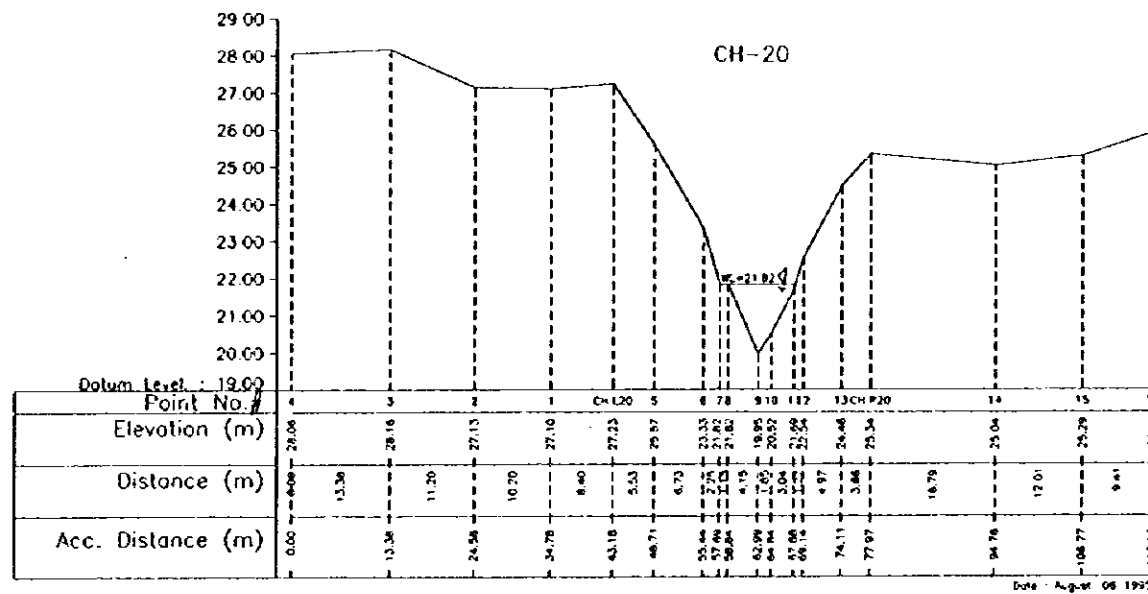
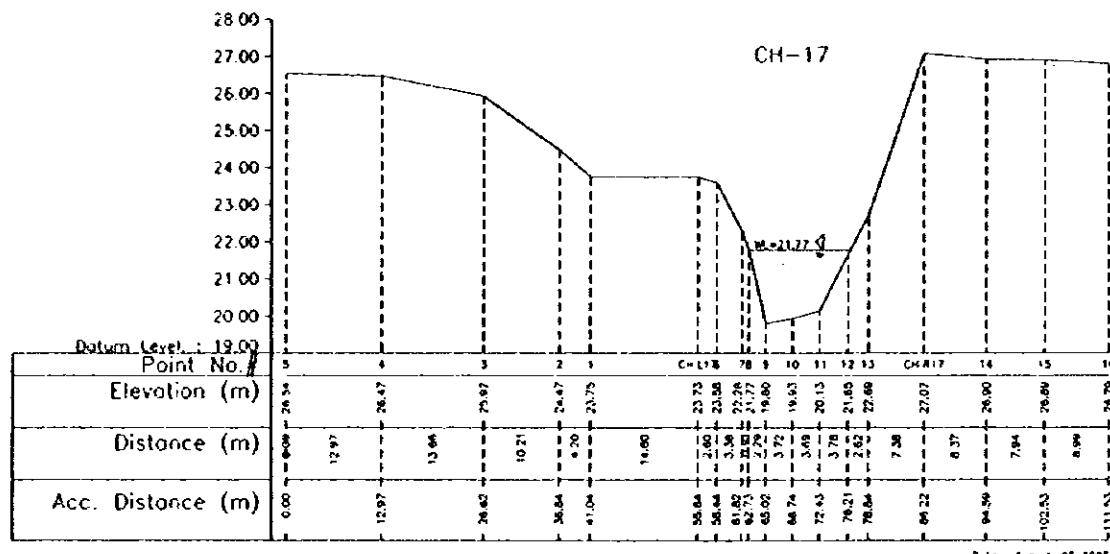
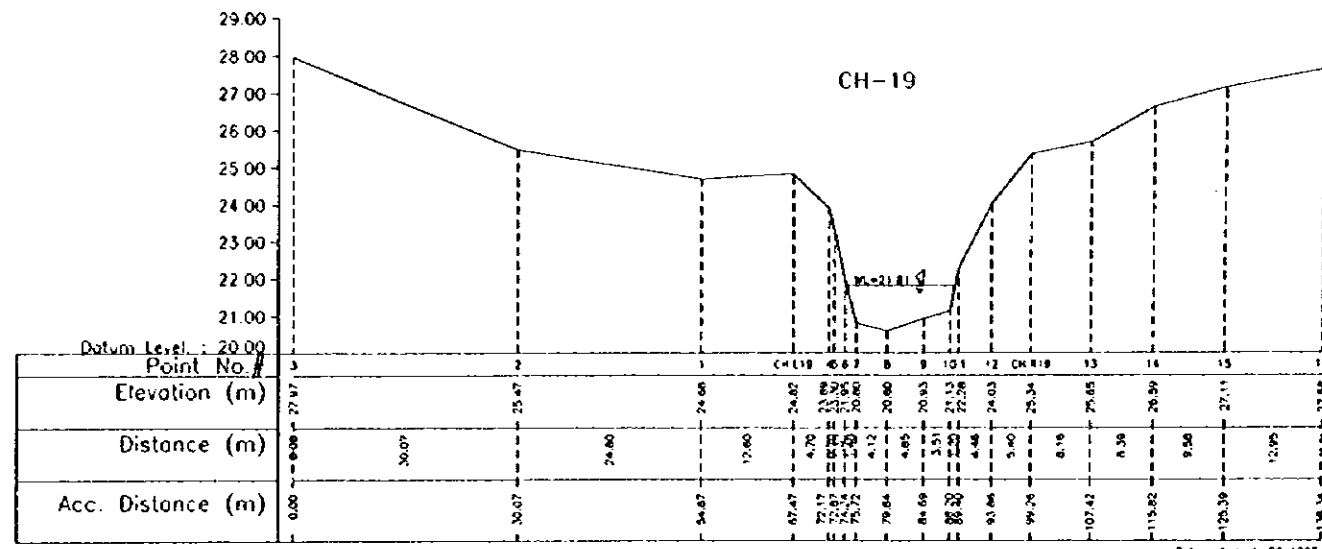
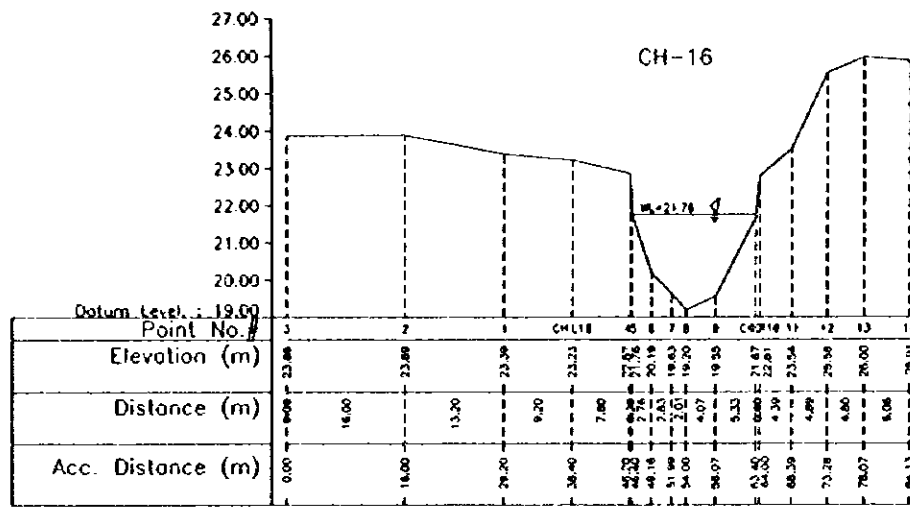
 1 : 500

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CIKARANG RIVER (UPPER)		Drawing Title : CROSS SECTION	
Checked by : BIRONO SOECAPTO	Approved by : R. TORANE	Scale : Horizontal 1 : 500	Sheet No : 3 of 6
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Vertical : 1 : 100	
Date : 18.11.95	Date : 21.11.95		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WHATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIG 127 = 40.136 meters
 The correlation between other system are :
 TIG 127 ± 0 = NWP - 0.975 meters = PP + . . . meter

1:100 (IN METERS)
 1 2 3 4 5 6 7 8 9 10
 0 1 2 3 4 5 6 7 8 9 10
 1:500

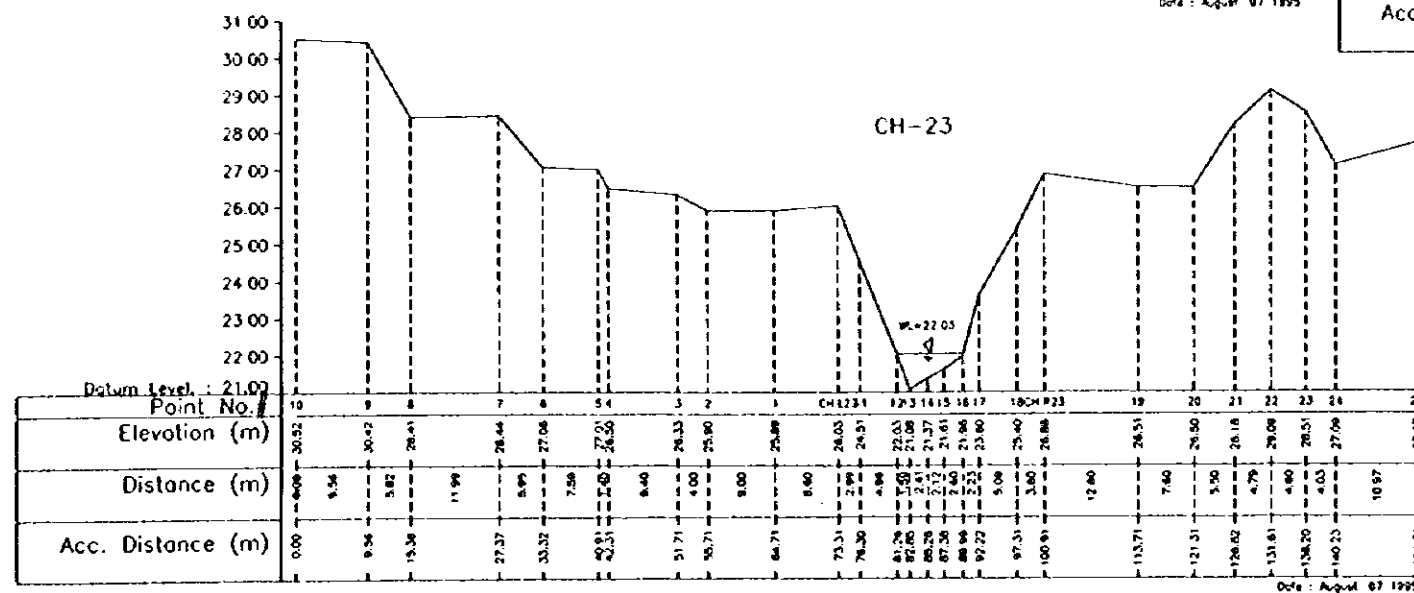
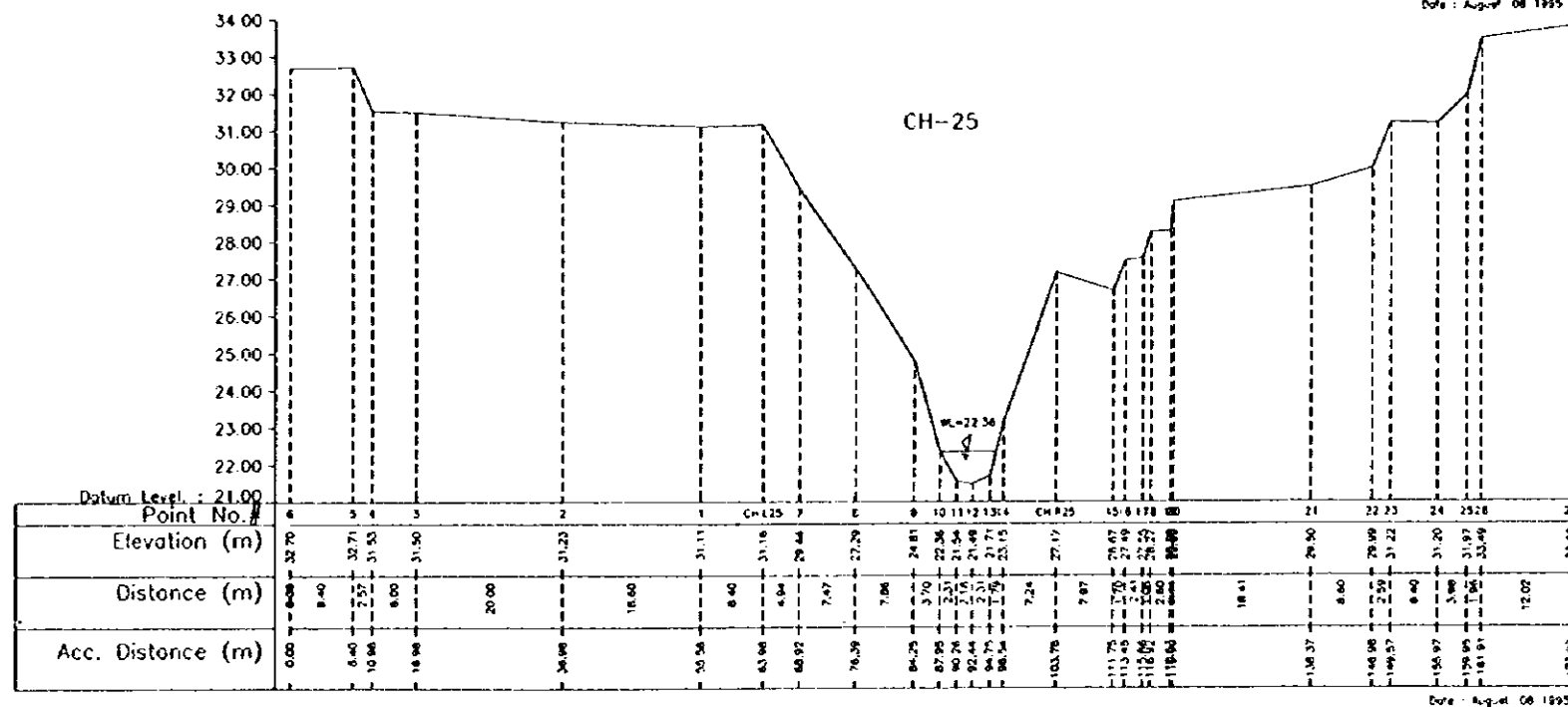
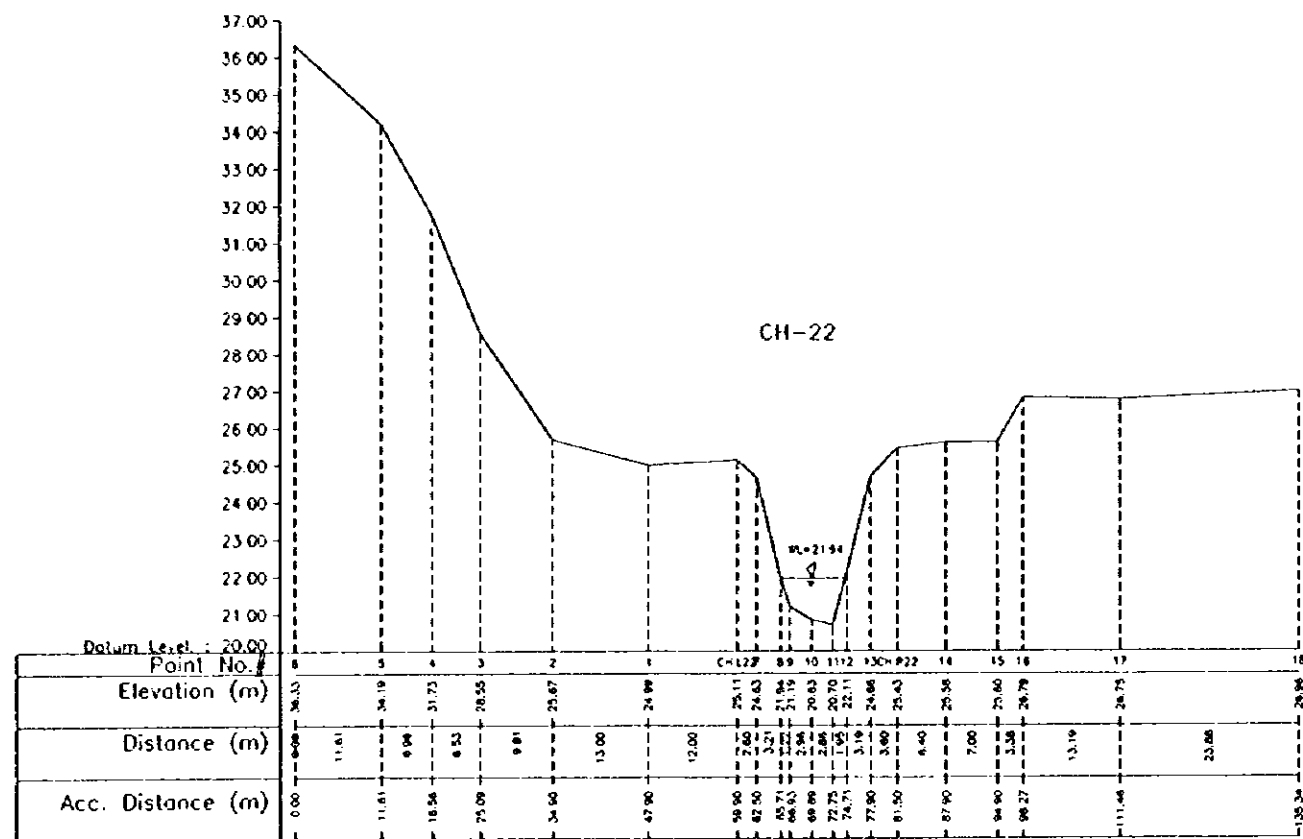
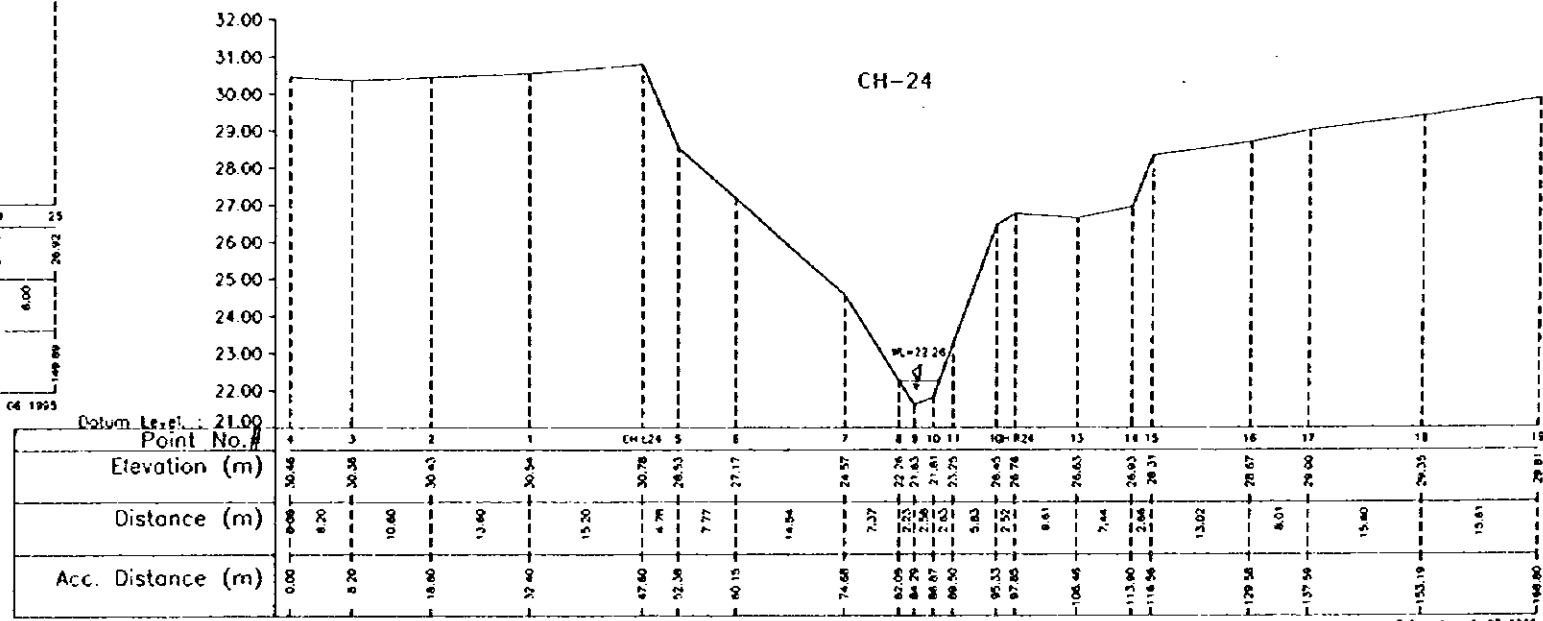
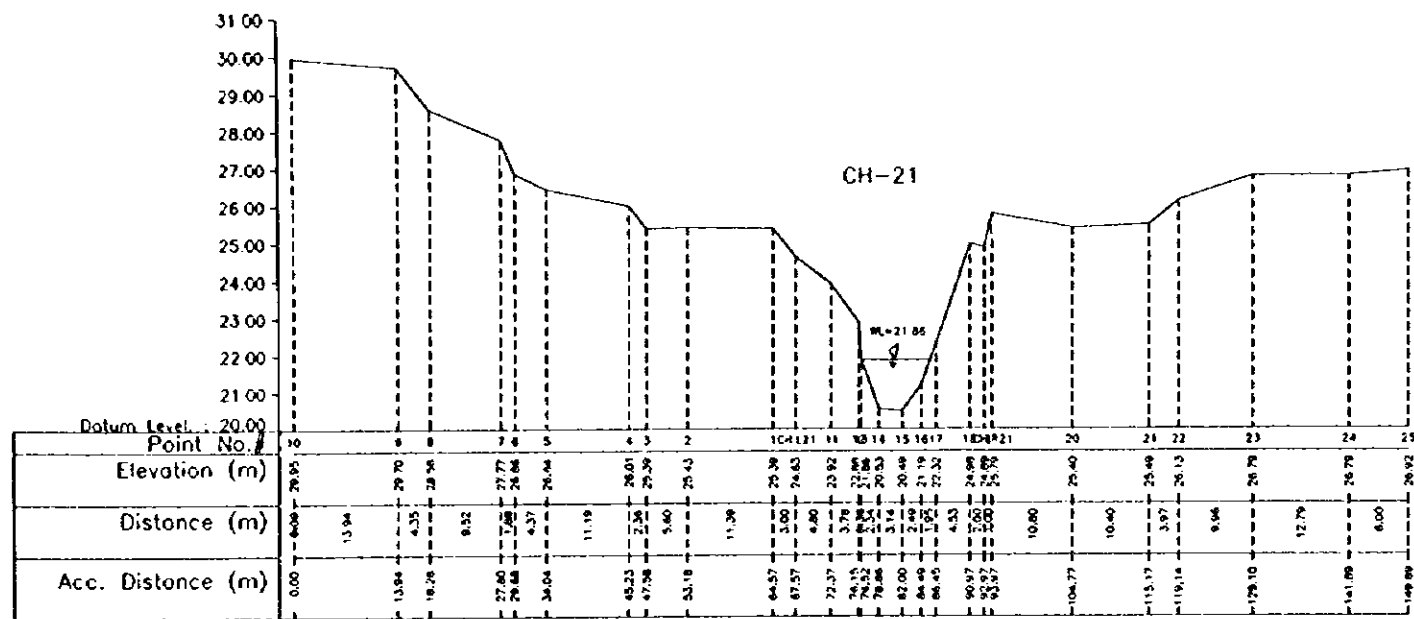
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CIKARANG RIVER (UPPER)** Drawing title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
Name : BRUNO SOEPHRO T. R. H. SUPANE	Signature : [Signature]	Horizontal 1 : 500	4 of 6
Date : 18.11.2019	Date : 19.11.2019	Vertical 1 : 100	

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WATMAN & Associates** JAKARTA - INDONESIA



Reference Point:
The Elevation is referred to TIG 177 = 40136 meters
The correlation between other system are
TIG 177 ± 0 = MRP - 0.975 meters = PP ±

Scale: 1:500 (Horizontal), 1:100 (Vertical)

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

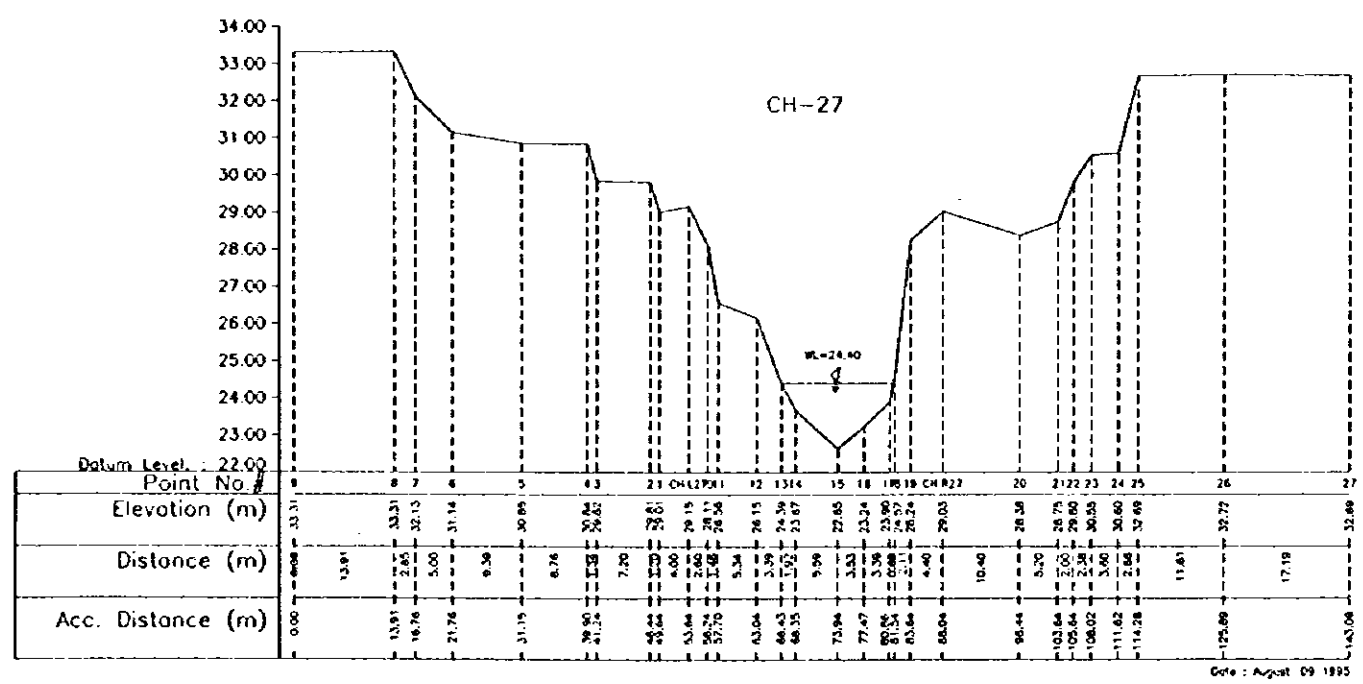
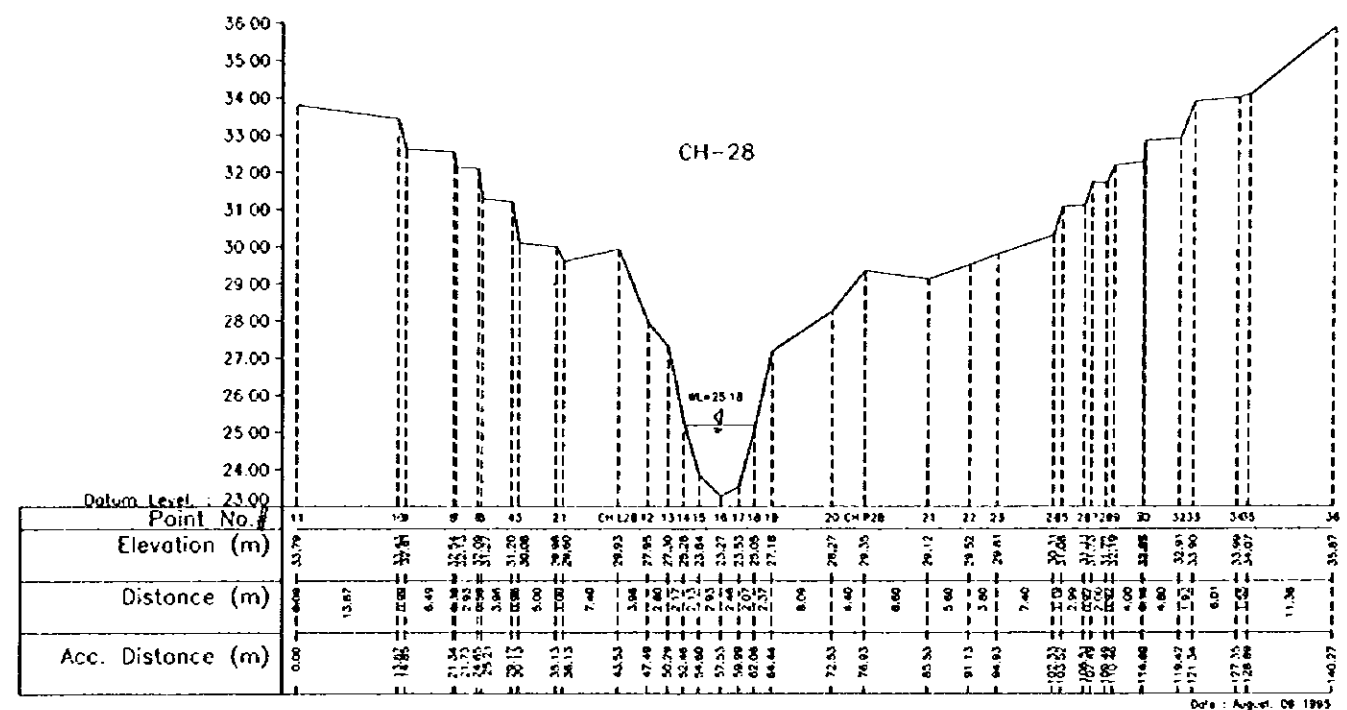
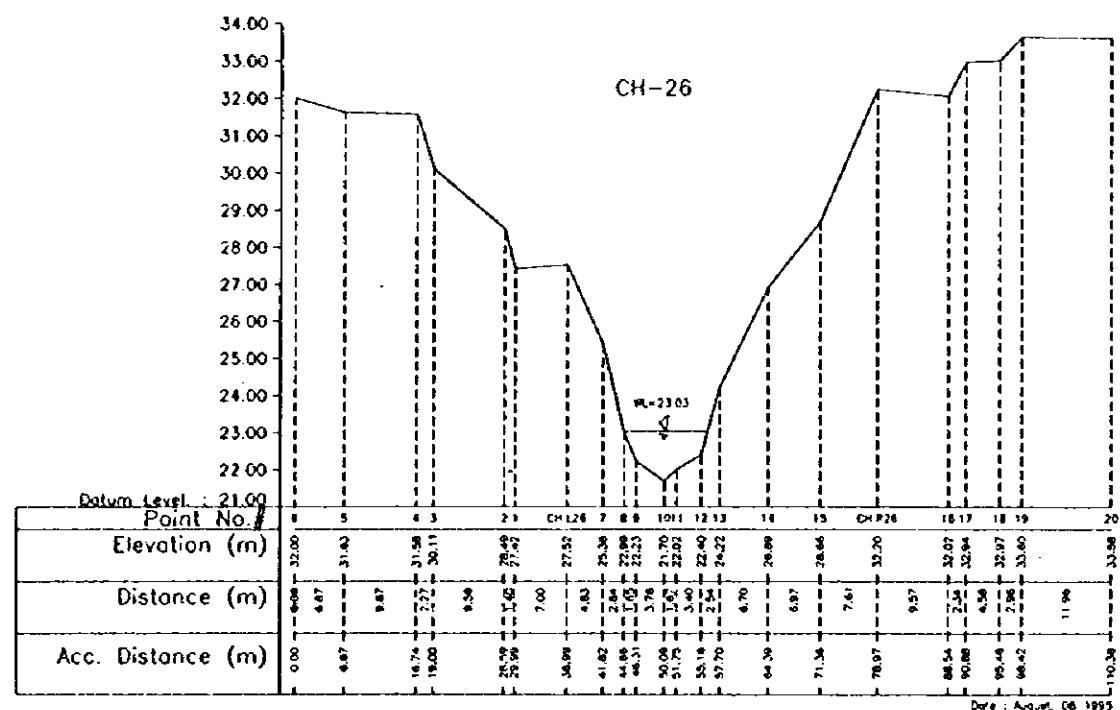
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River: CIKARANG RIVER (UPPER) Drawing Title: CROSS SECTION

Created by: BAWANG, SOEDAMIS, T. PAN, K. TOPANUE Approved by: [Signature]

Scale: Horizontal 1:500, Vertical 1:100 Sheet No: 5 of 6

JICA JAPAN INTERNATIONAL COOPERATION AGENCY WIRATAMA & Associates JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to ITG 177 = 40 136 meters
 The correlation between other system are :
 ITG 177 ± 0 = HWP = 0.975 meters = PP ± ... meter

(IN METERS)
 Scale: 1:500

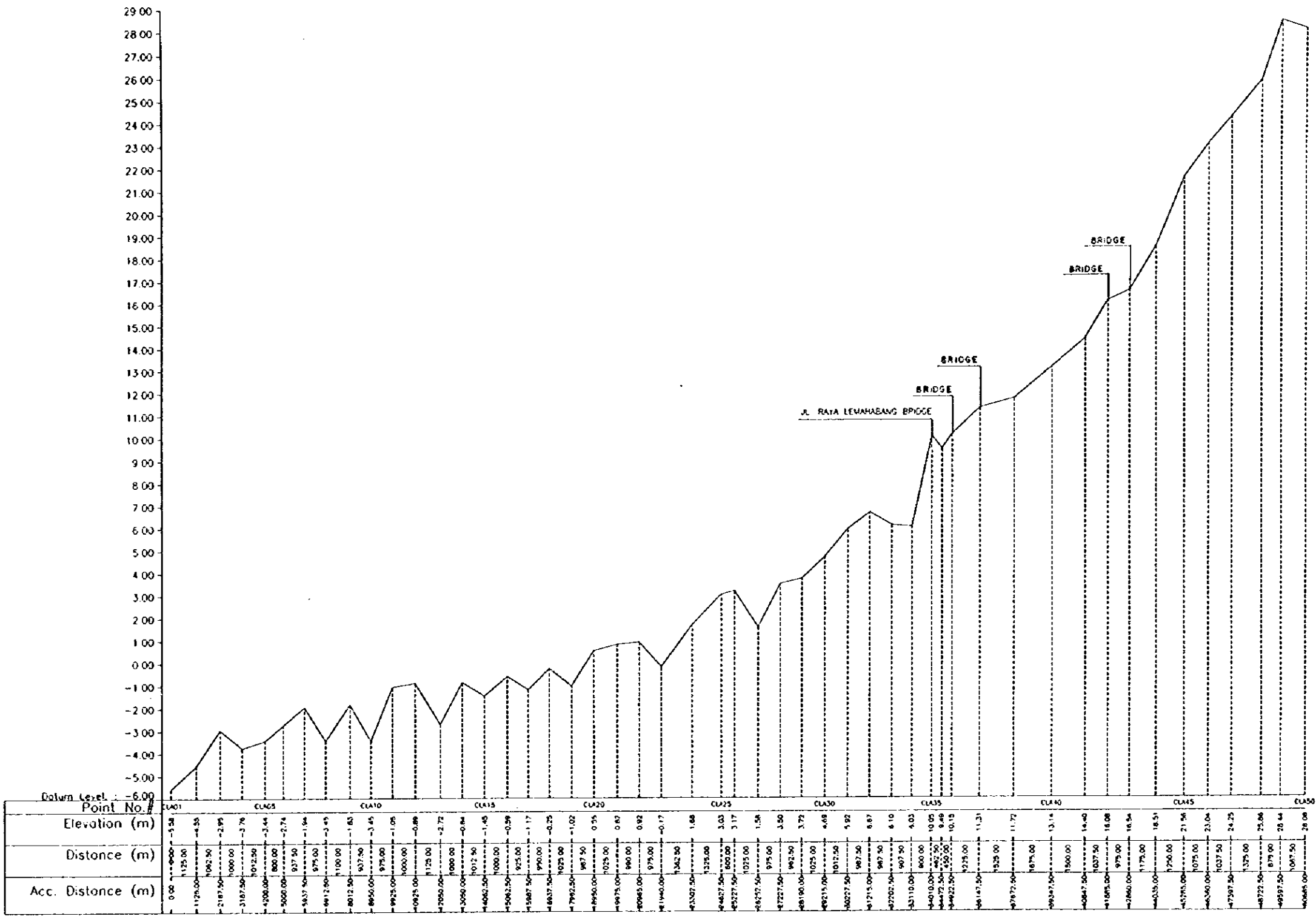
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CIKARANG RIVER (UPPER)** Drawing Title : **CROSS SECTION**

Checked By	Approved By	Scale	Sheet No.
B. PRONO	S. SOEPARTO	Horizontal 1 : 500	6 of 6
Signature	Signature	Vertical 1 : 100	
Date	Date		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIDJAJA & Associates** JAKARTA - INDONESIA



Reference Point:
 The Elevation is referred to ITC 177 = 40.136 meters
 The correlation between other system are
 ITC 177 ± 0 = 4mP - 0.975 meters = PP ± meter

(IN METERS)
 1 : 100000

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

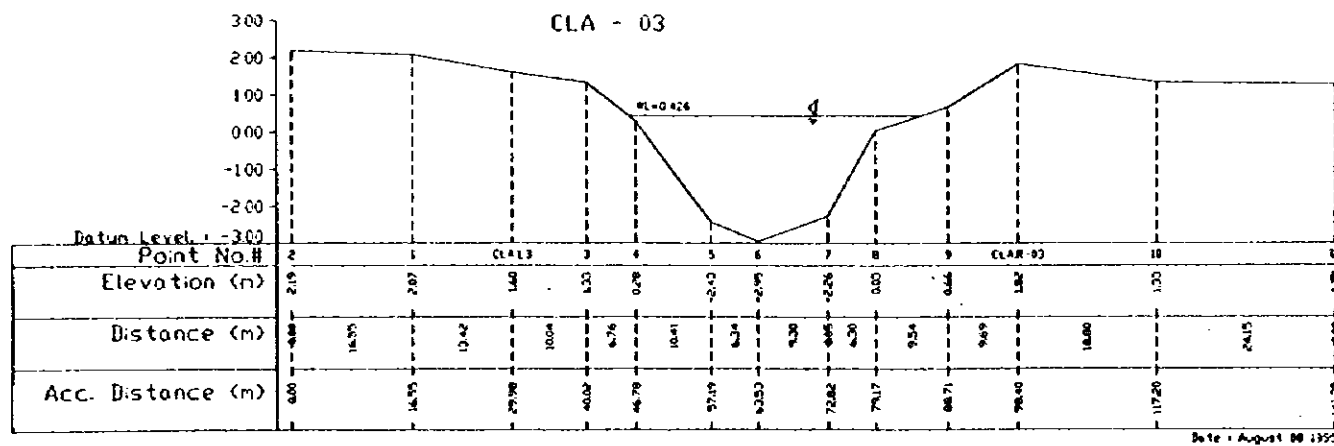
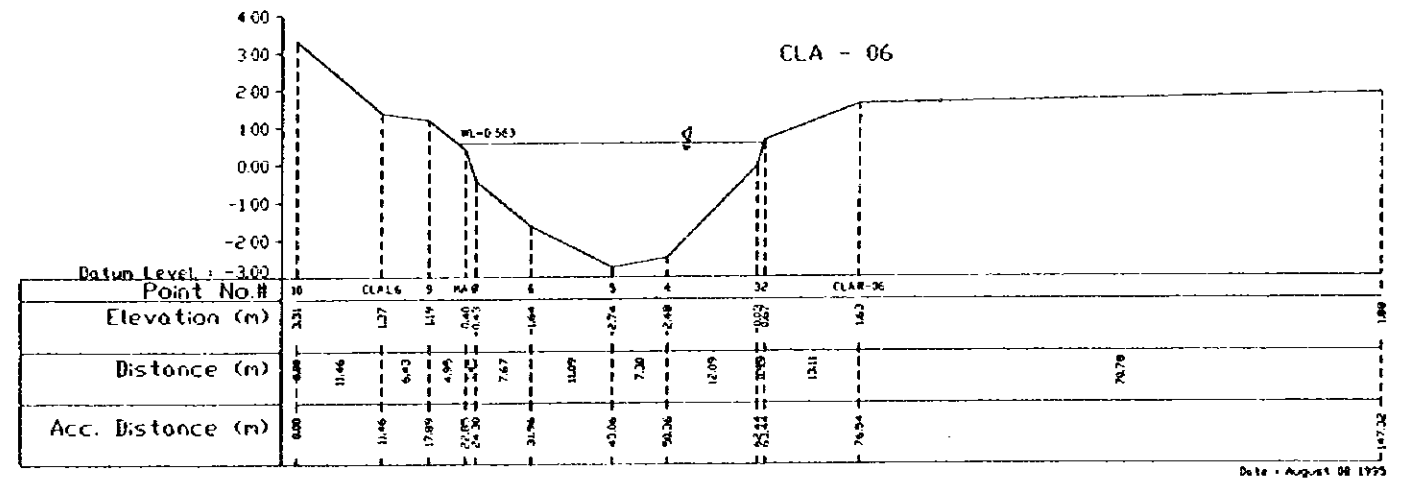
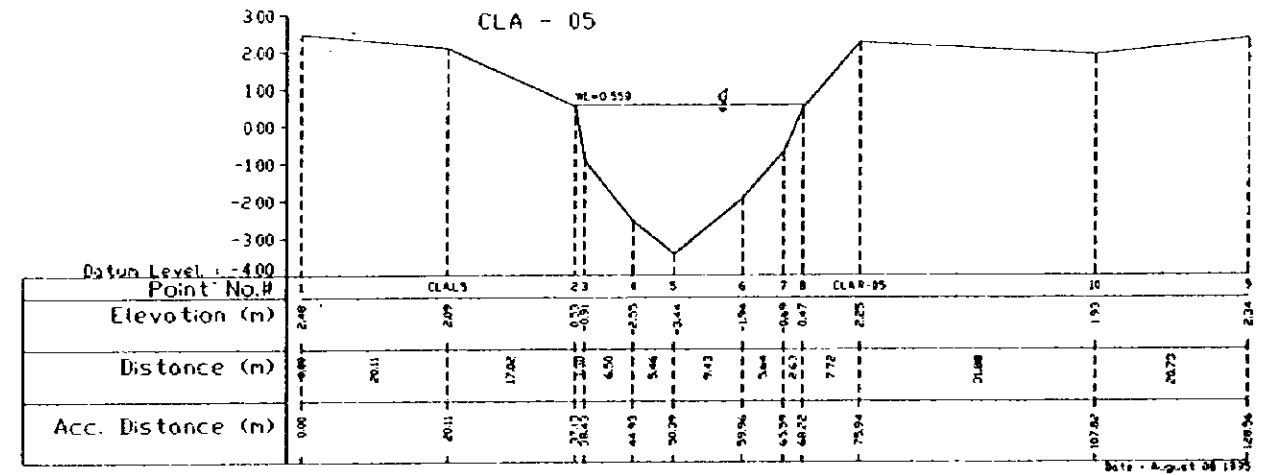
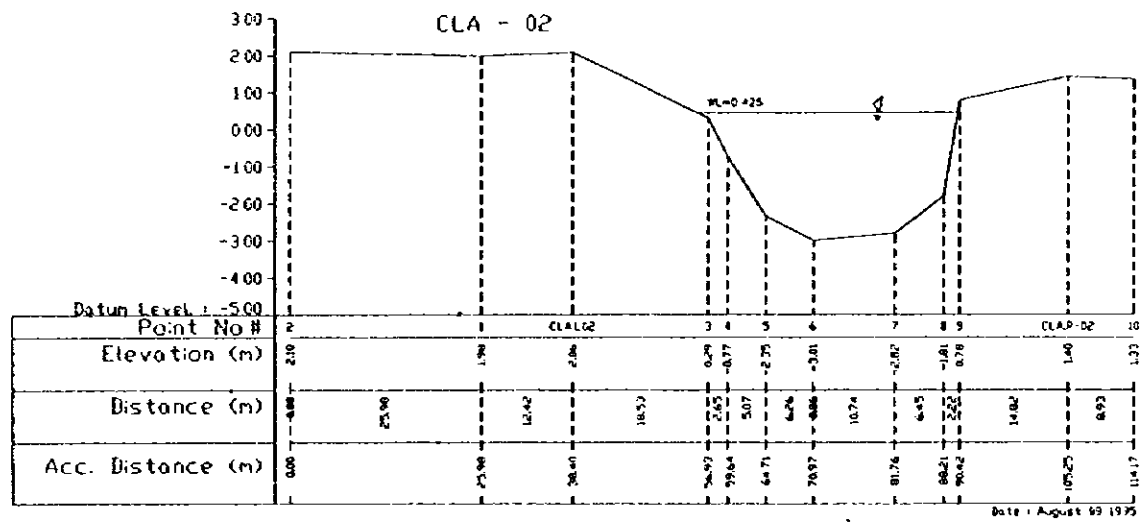
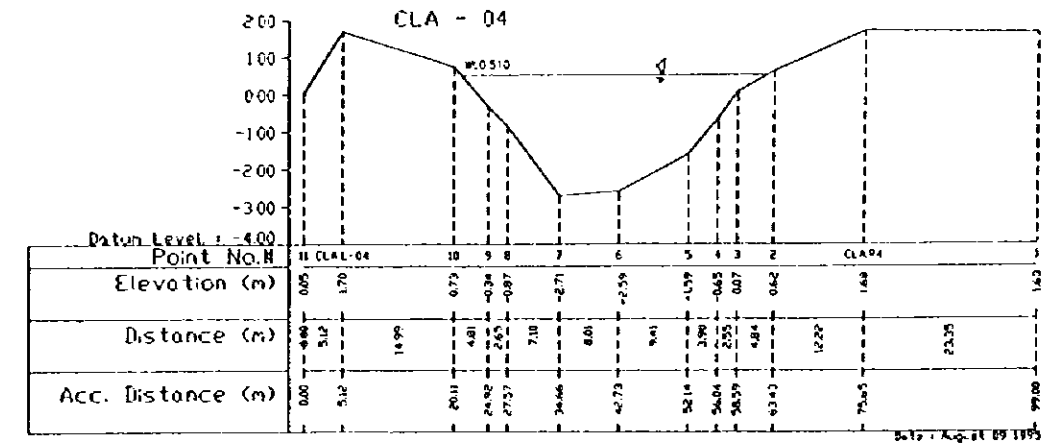
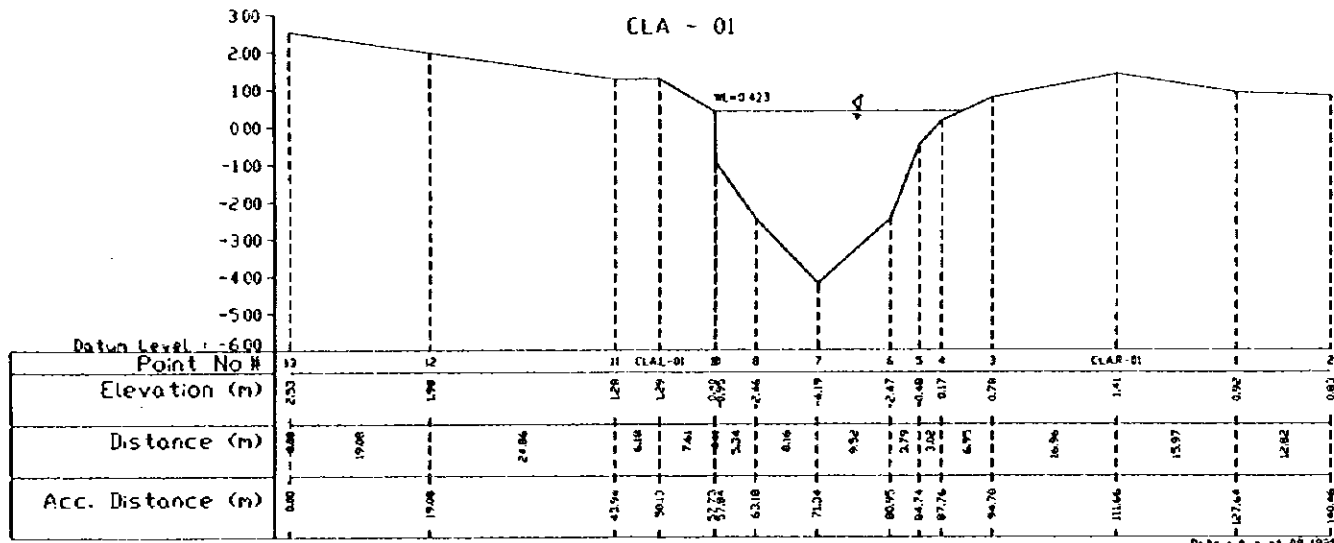
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CILEMAHABANG RIVER** Drawing Title : **LONGITUDINAL PROFILE**

Checked by BARIAN SUDAPITA	Approved by T. MAN	Scale Horizontal 1 : 100000 Vertical 1 : 100	Sheet No. 1 of 1
-------------------------------	-----------------------	--	---------------------

Date : 26.11.95 26.11.95

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WRATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIG 177 = 40136 meters
 The correlation between other system are
 TIG 177 ± 0 = NADP = 0.975 meters ± FP ± meter

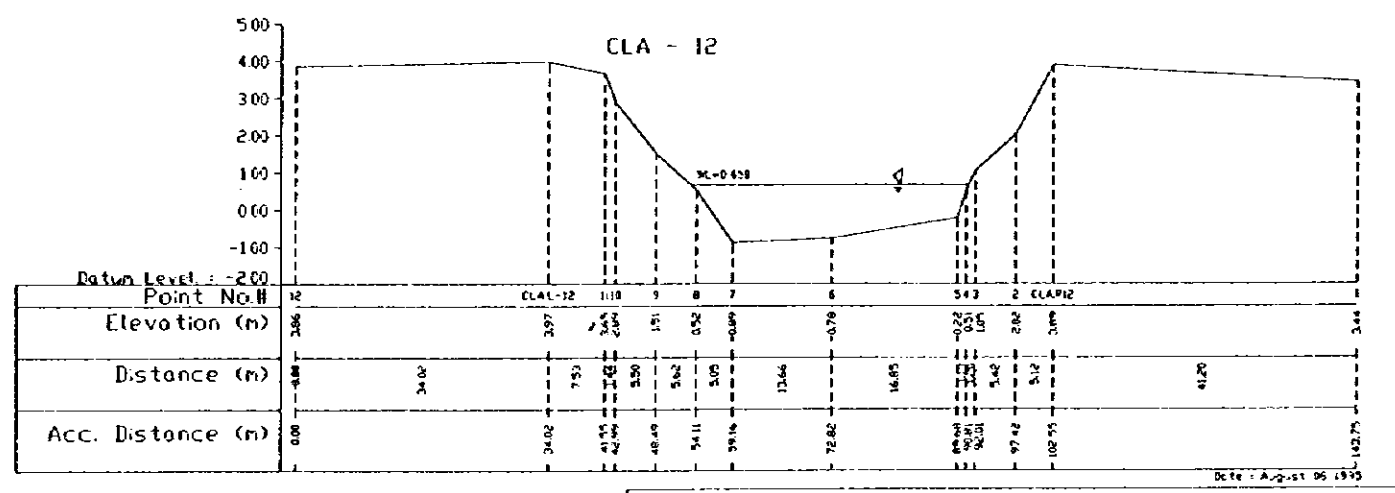
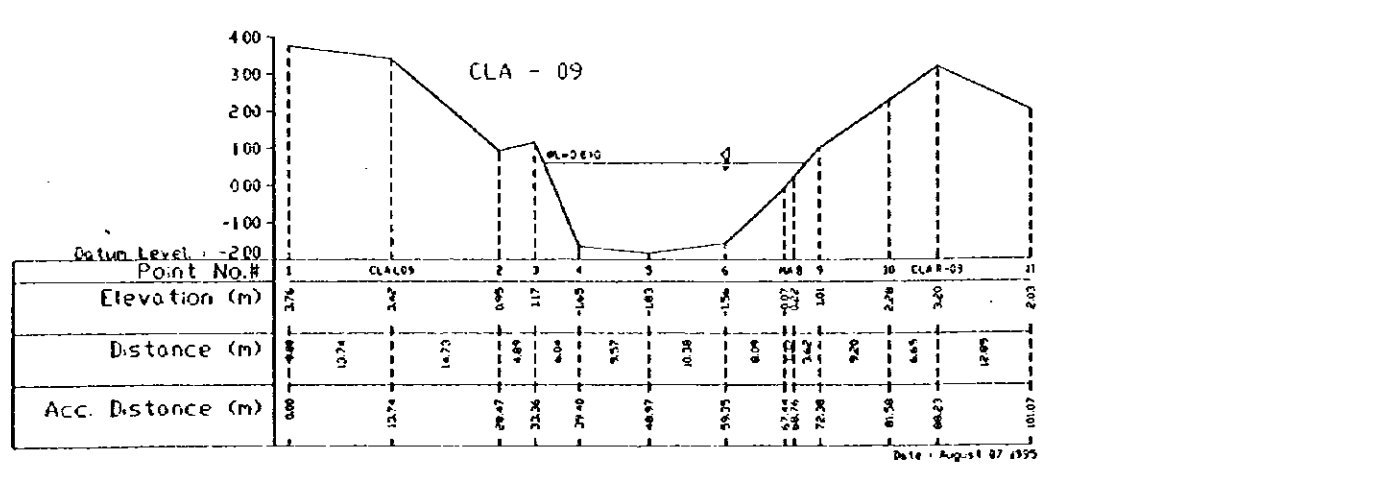
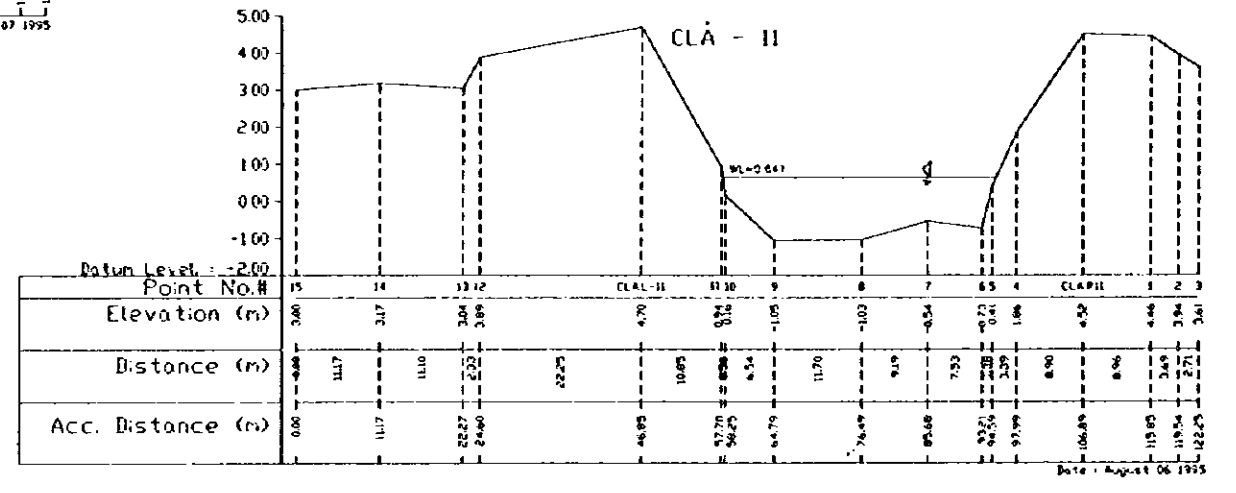
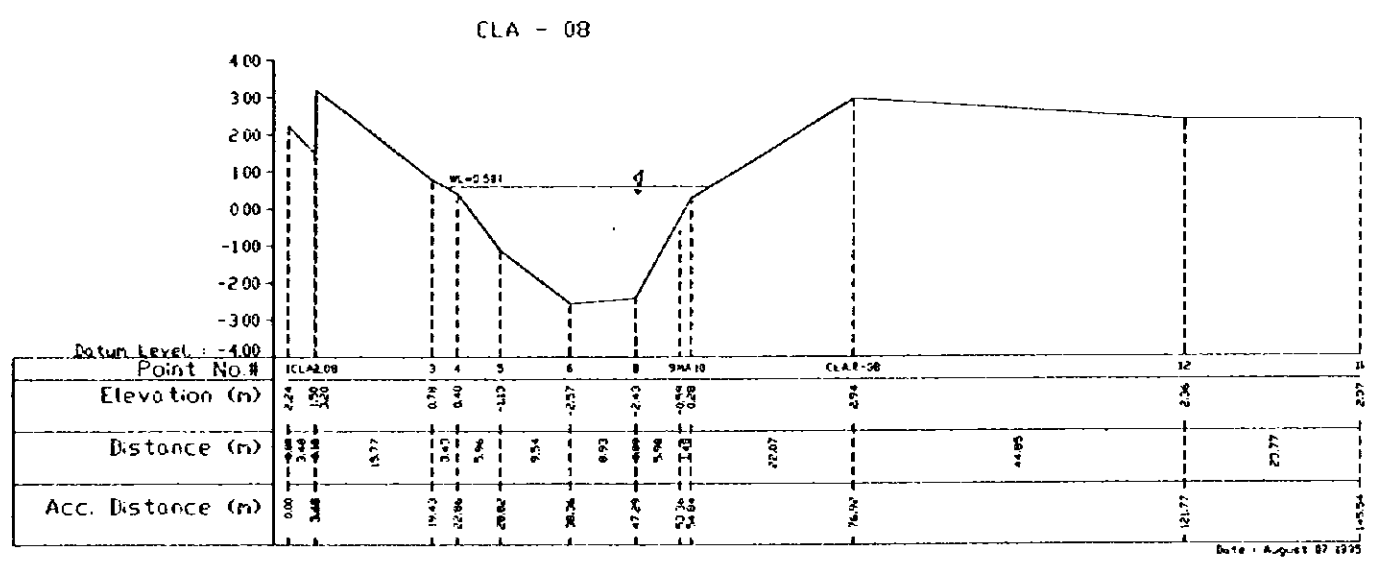
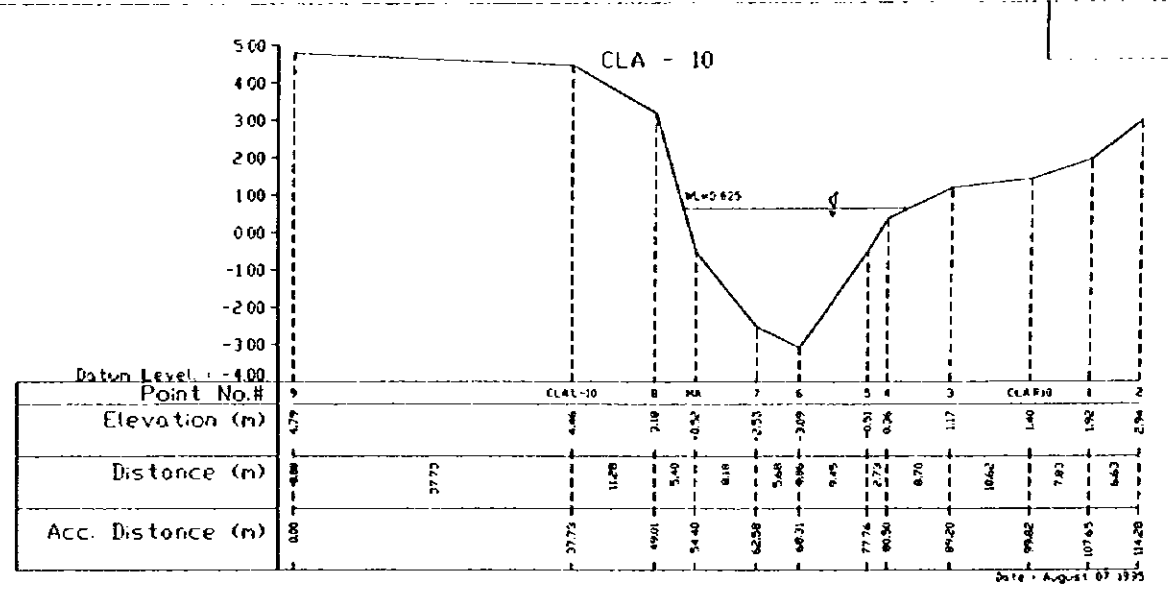
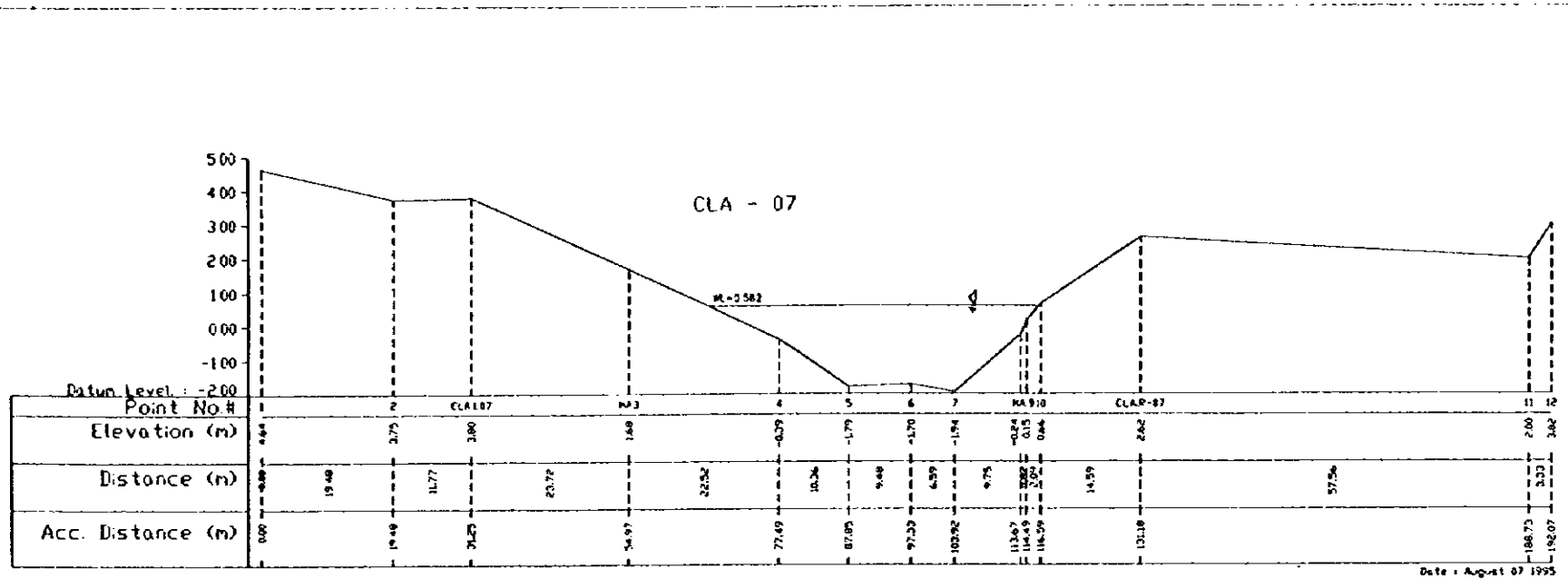
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CILEMAHABANG RIVER** Drawing Title : **CROSS SECTION**

Checked by : *[Signature]* Approved by : *[Signature]* Scale : Horizontal 1 : 500 Sheet No : 1 of 10

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WRATMAN & Associates** JAKARTA - INDONESIA



Reference Point:
The Elevation is referred to TIG 177 = 49.136 meters
The correlation between other system are
TIG 177 ± 0 = NWP - 0.975 meters = PP + meter

1:100 (in meters)
Scale: 1:500
No. = 1:500

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

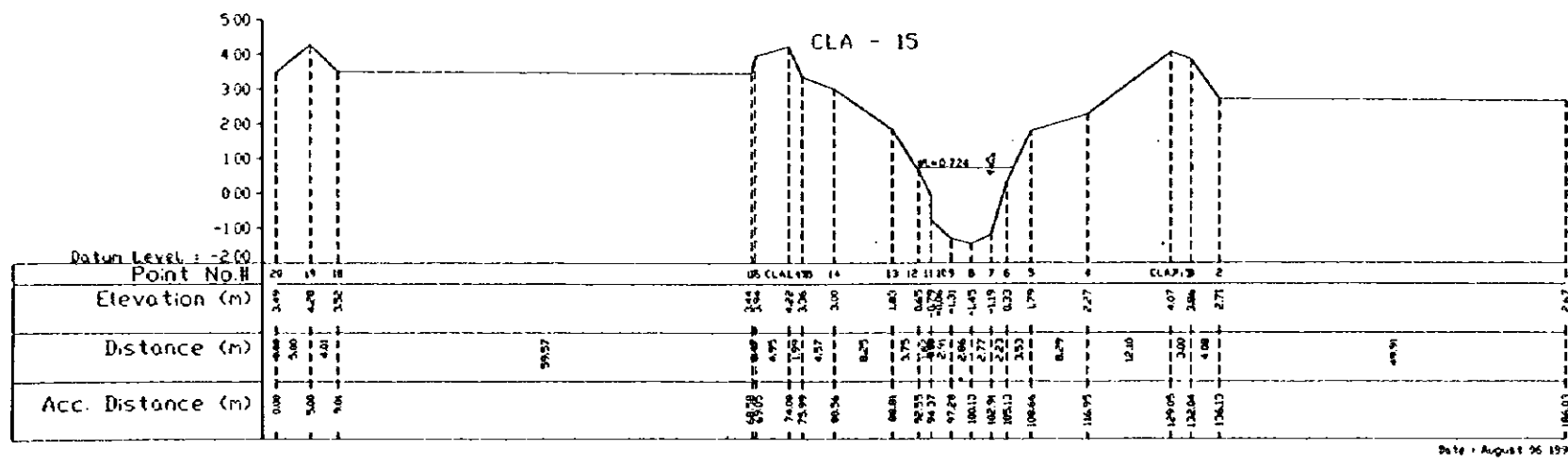
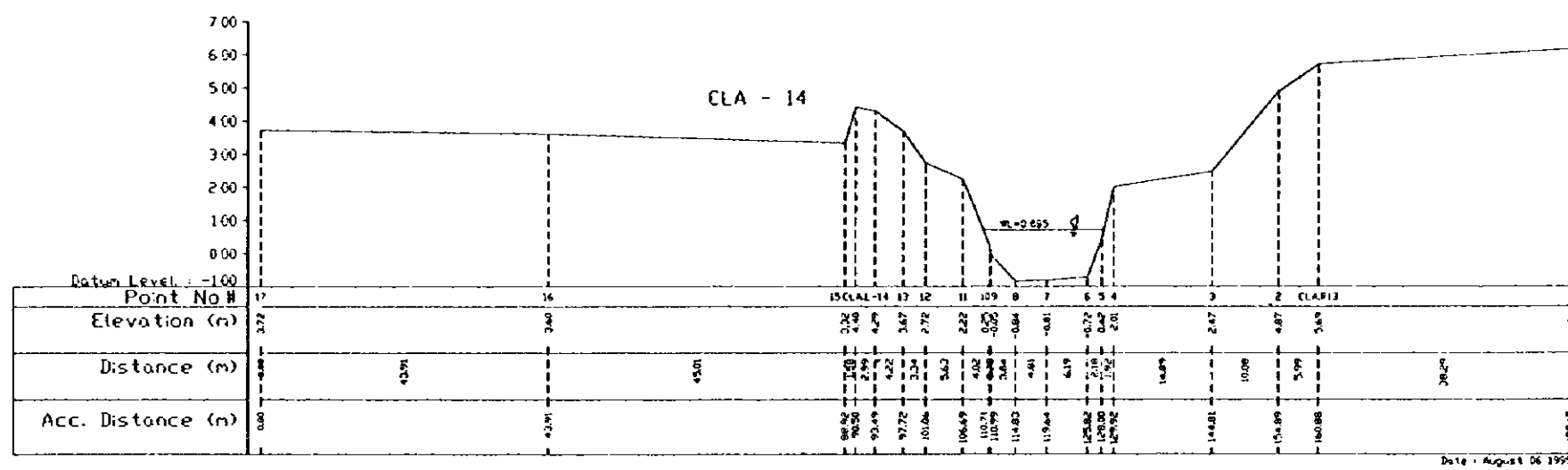
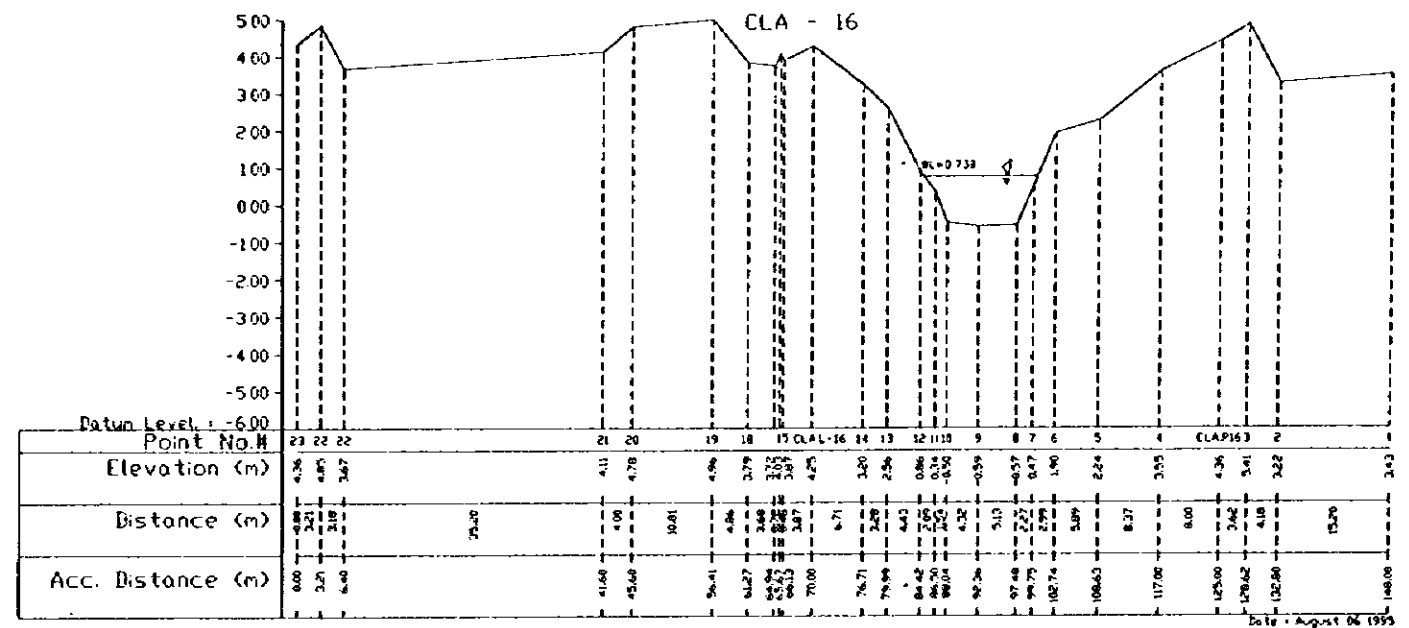
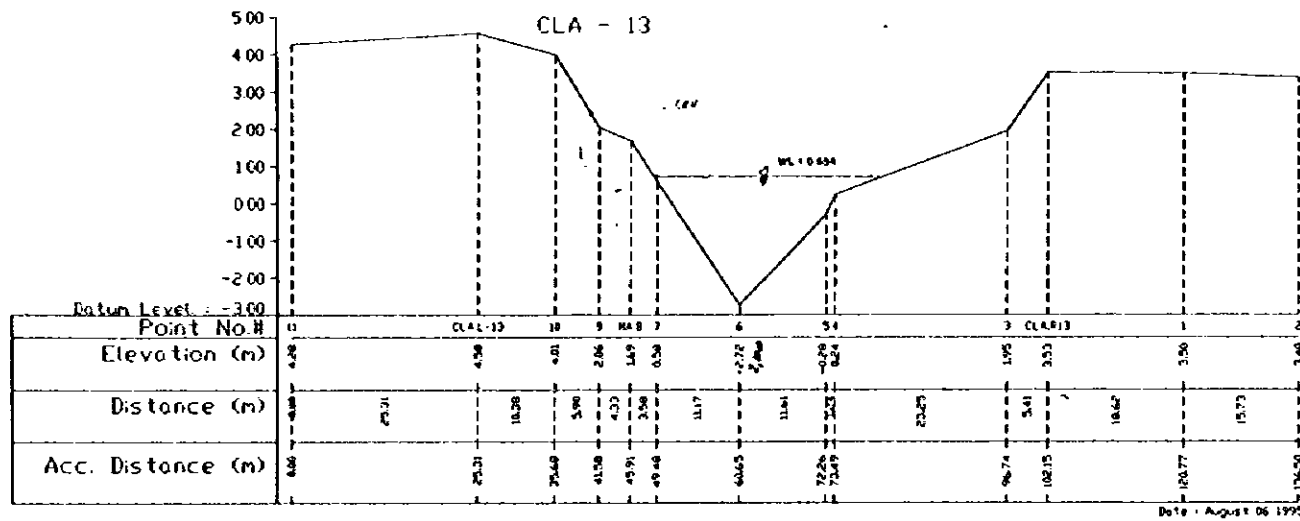
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CILEMAHABANG RIVER** Drawing Title : **CROSS SECTION**

Checked by : [Signature] Approved by : [Signature] Scale : Horizontal 1:500 Sheet No : 2 of 10

Date : 12/11/75 Date : 12/11/75

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



Reference Point
 The Elevation is referred to TIG 177 = +0.136 meters
 The correlation between other system are:
 TIG 177 ± 0 = HAP - 0.975 meters = PP + m/e/r

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

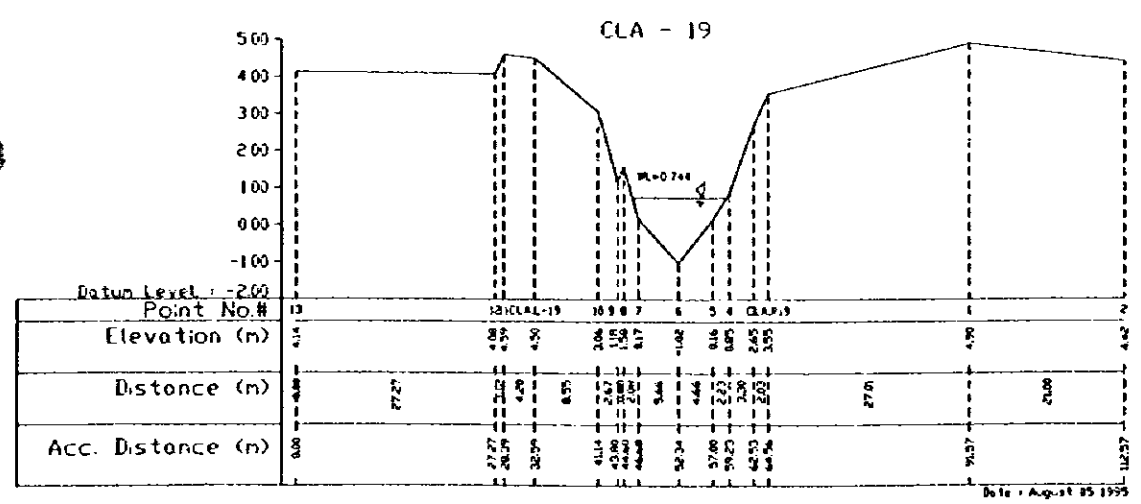
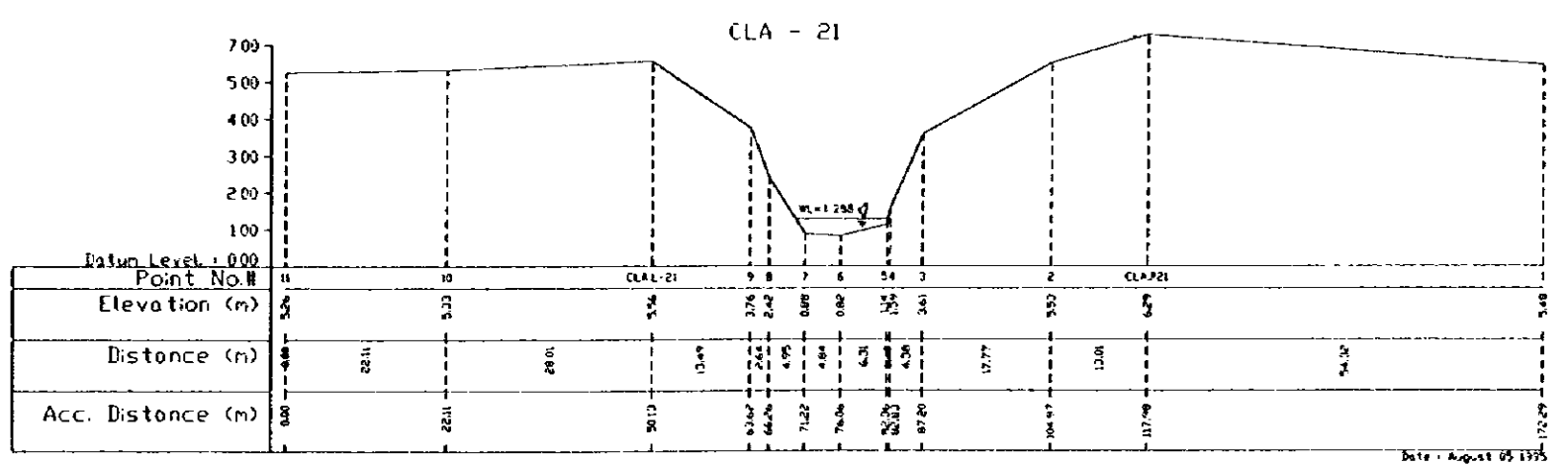
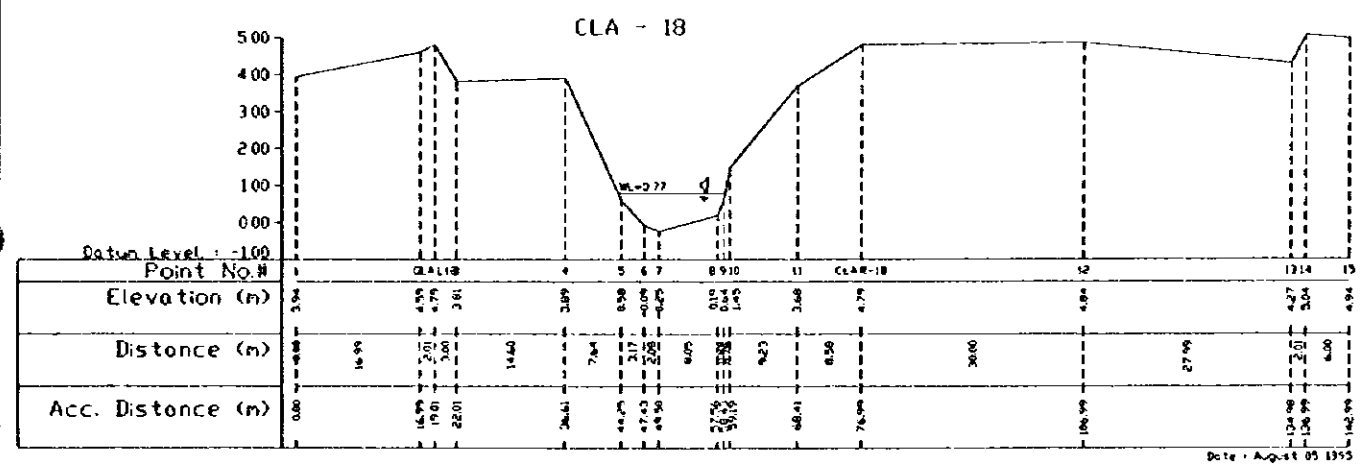
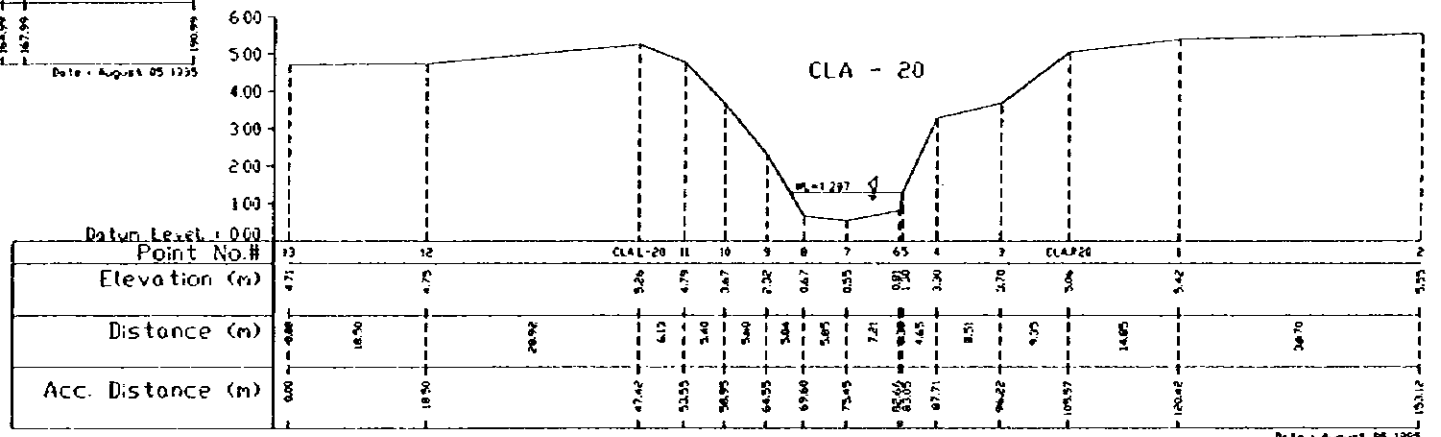
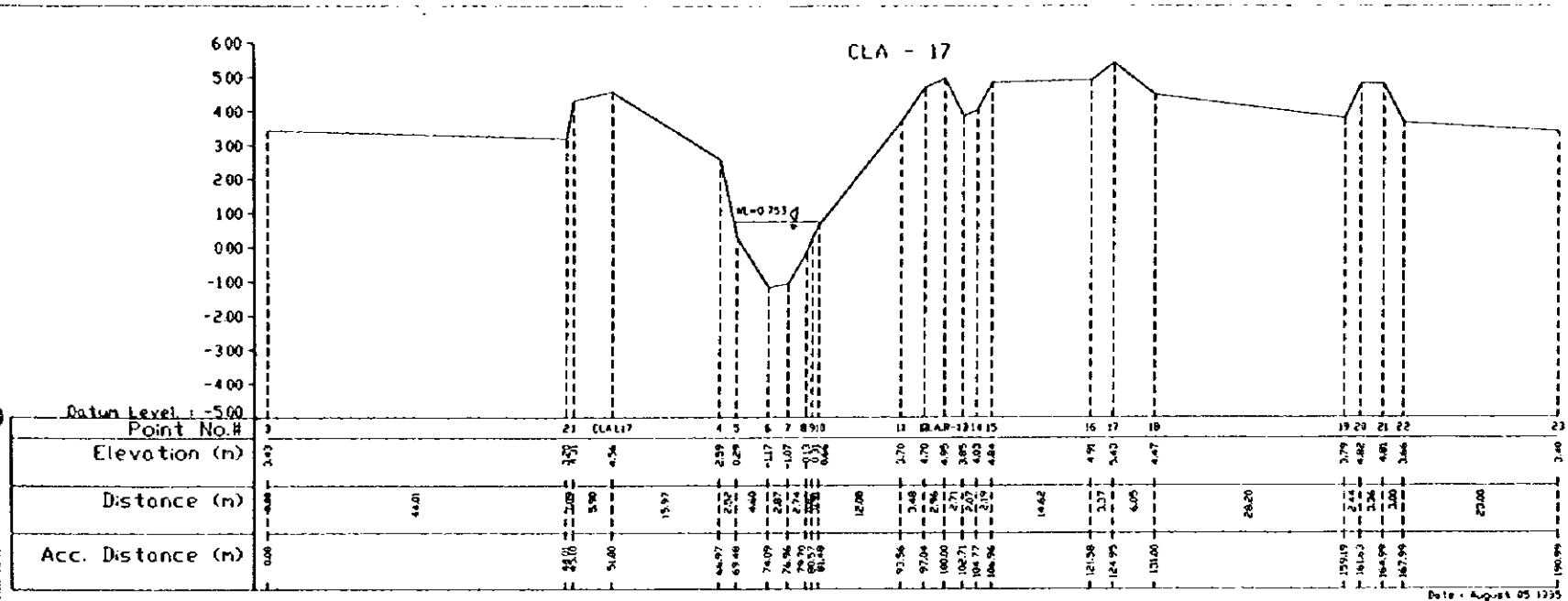
Name of River : CILEMAHABANG RIVER
 Drawing Title : CROSS SECTION

Checked by : BIRONO SUCAPTO
 Approved by : R. TOPANE

Scale : Horizontal 1 : 500
 Vertical 1 : 100

Sheet No : 3 of 10

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates
 JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to ITG 177 = 40136 meters
 The correlation between other system are :
 ITG 177 ± 0 = NADP - 0.975 meters = SP + . . . meter

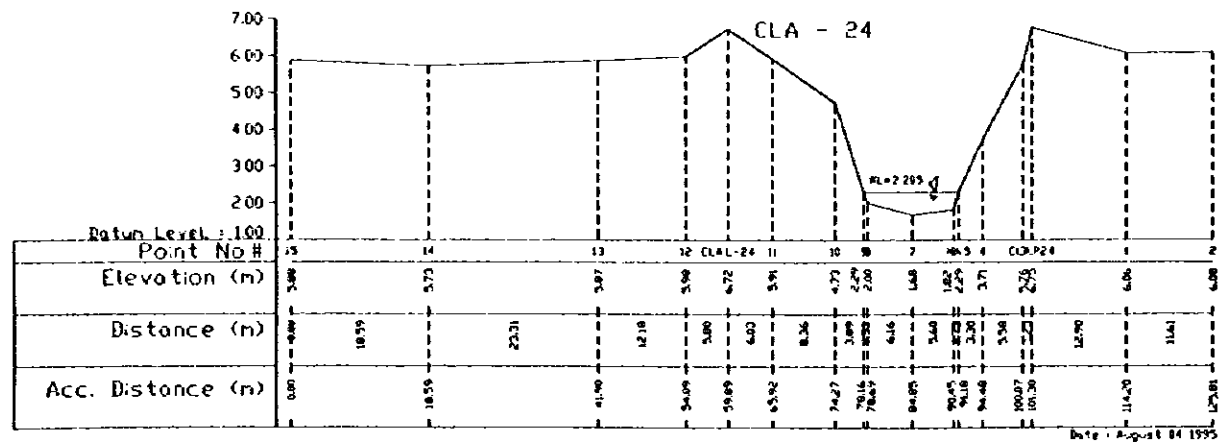
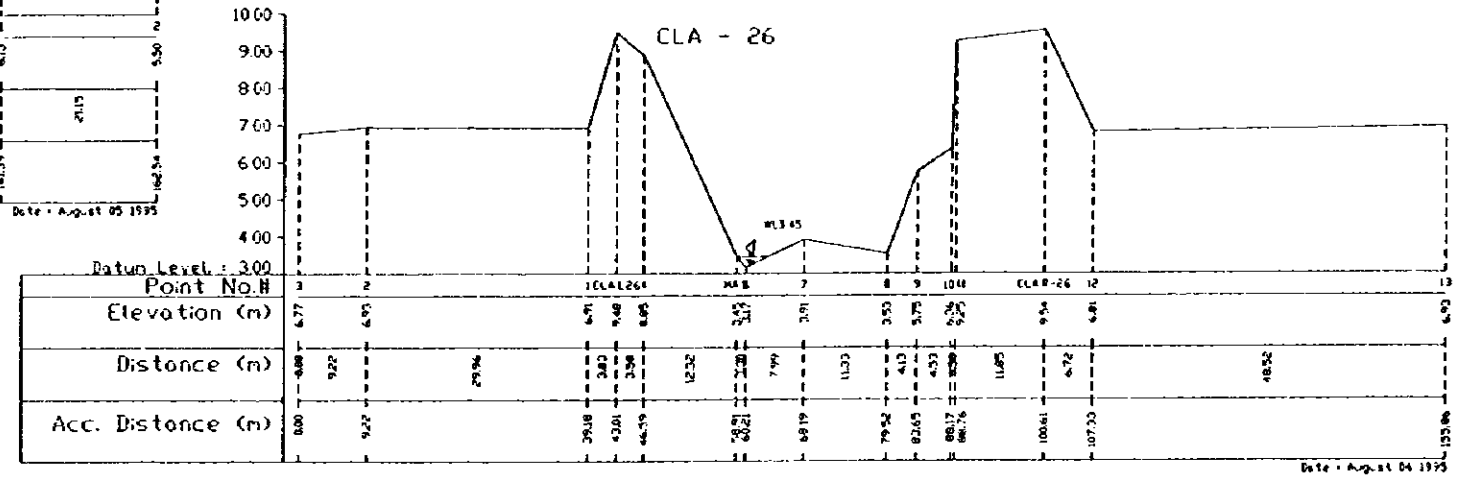
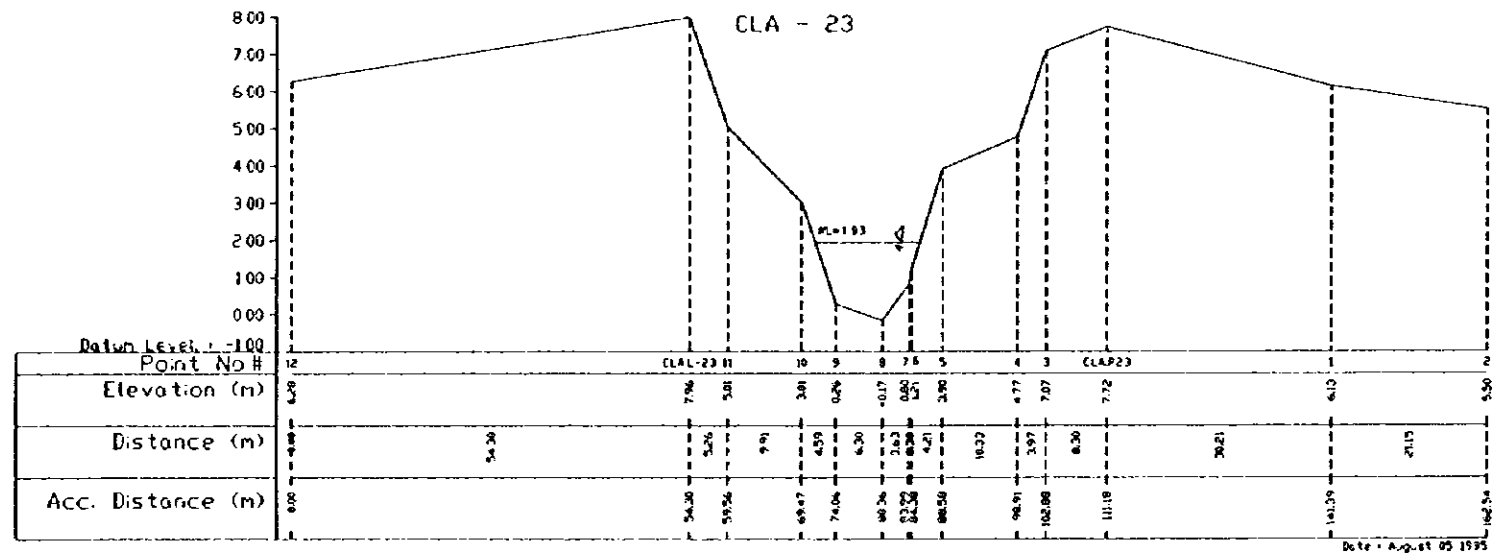
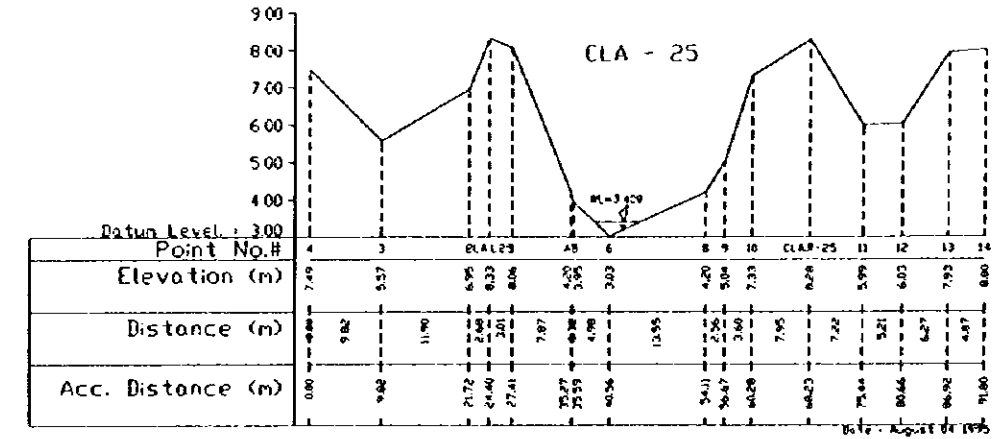
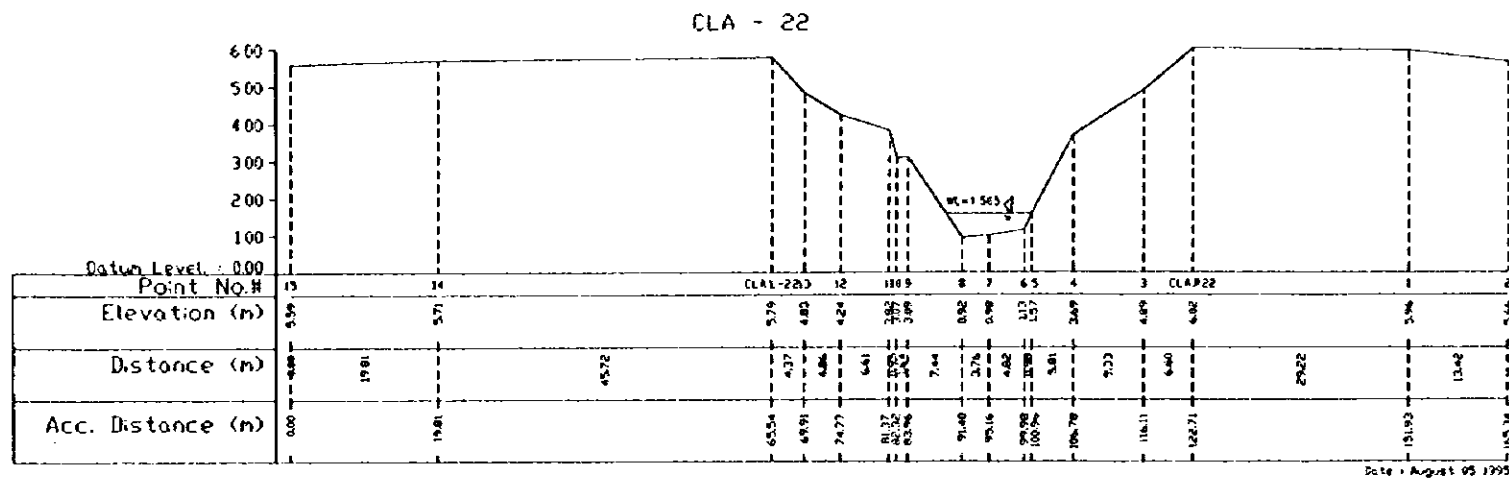
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN J.BOTABEK

Name of River : **CILEMAHABANG RIVER** Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No.
BIMOND SOEDARTO	F. HAN	Horizontal 1 : 500	4 of 10
Signature : (Signature)	(Signature)	Vertical 1 : 100	
Date : 16.11.91	31.11.95		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are
 TIG 177 ± 0 = NWP - 0.975 meters = PP ± ... meters

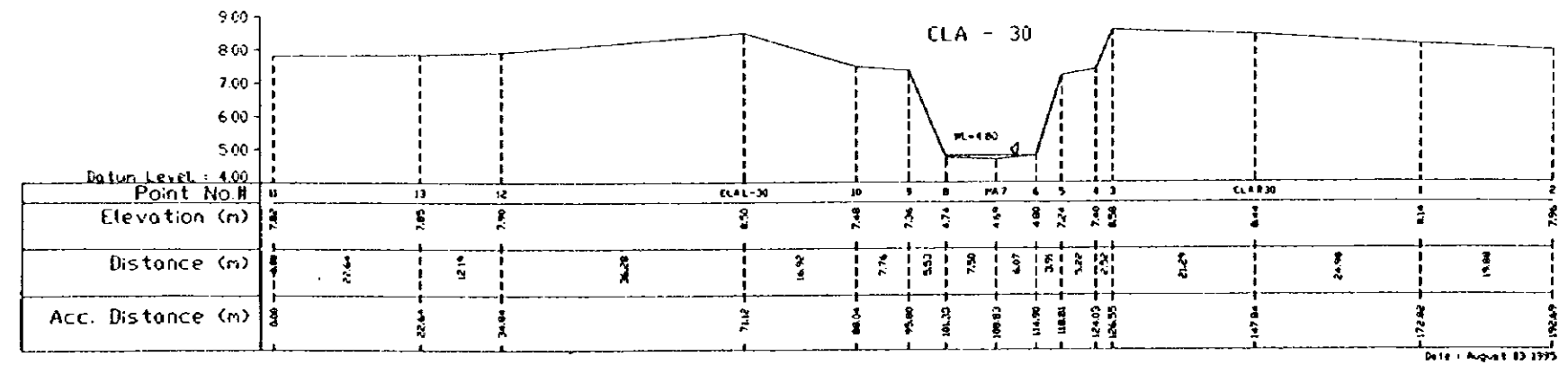
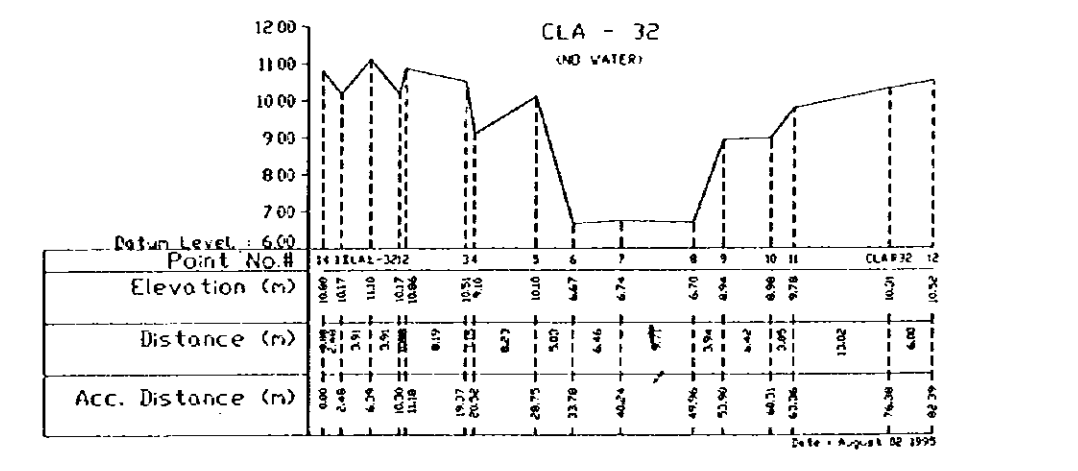
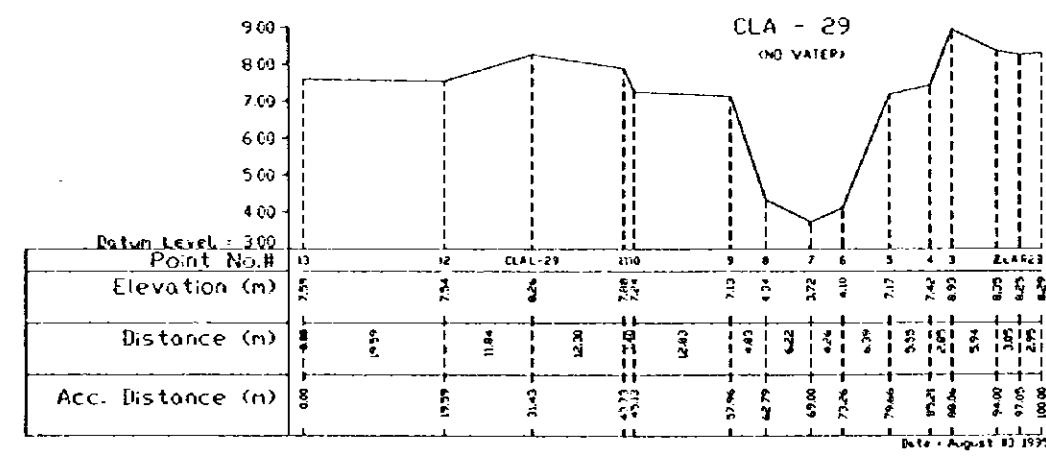
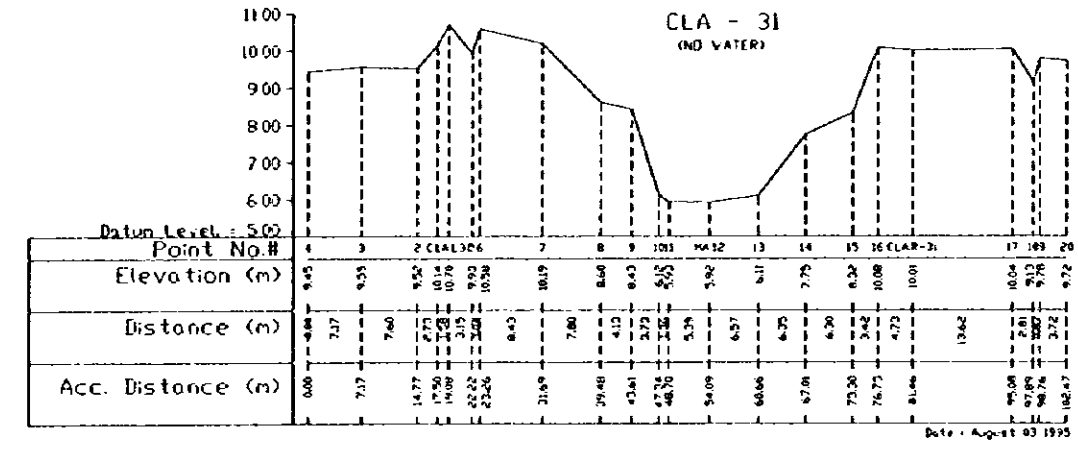
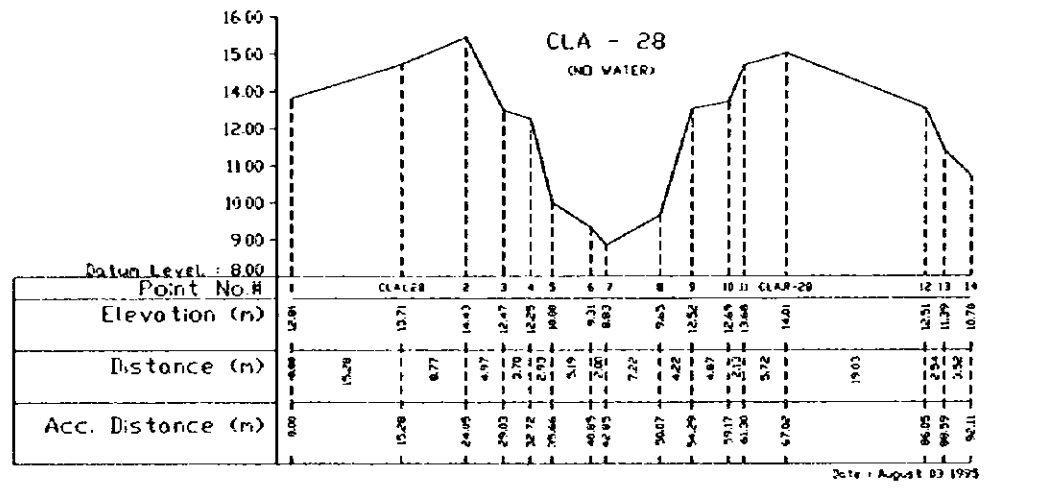
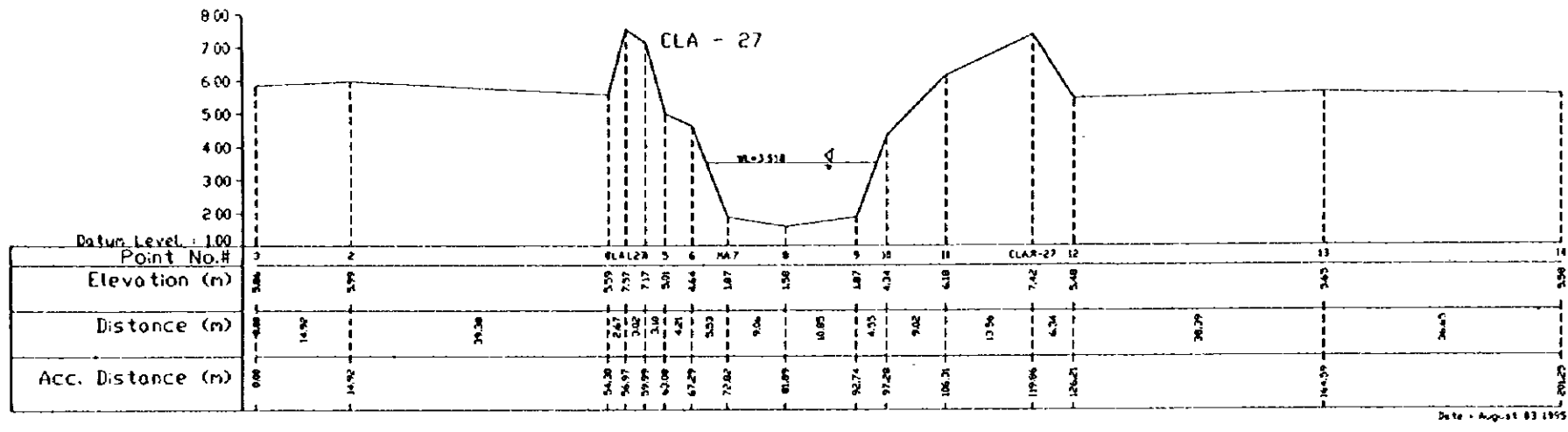
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CILEMAHABANG RIVER**
 Drawing Title : **CROSS SECTION**

Checked by : [Signature]
 Approved by : [Signature]
 Scale : Horizontal 1 : 500, Vertical 1 : 100
 Sheet No : 5 of 10

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates
 JAKARTA - INDONESIA



Reference Point :
 The Elevation is related to TIG 177 = 40 136 meters
 The correlation between other system are
 TIG 177 ± 0 = NWP = 0.975 meters = PP ± ... meter

(IN METERS)
 1 : 500

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

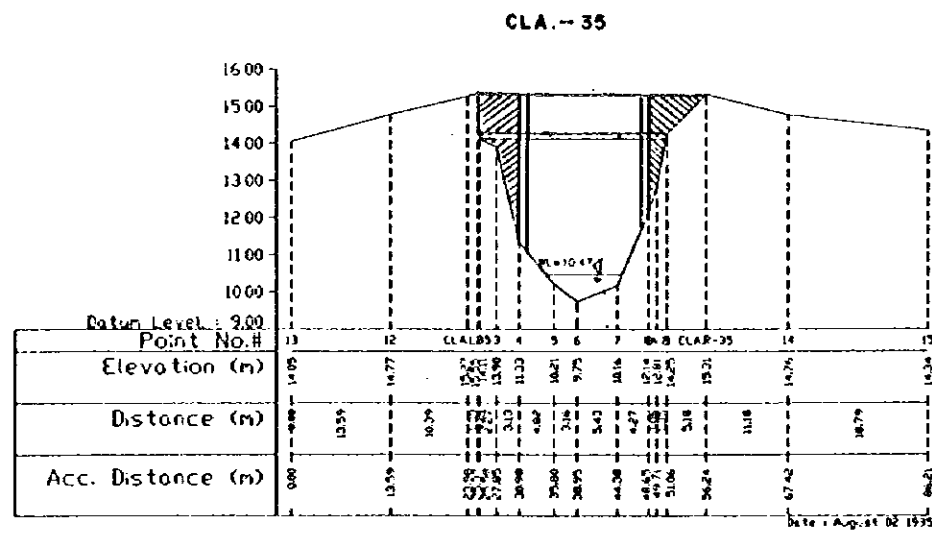
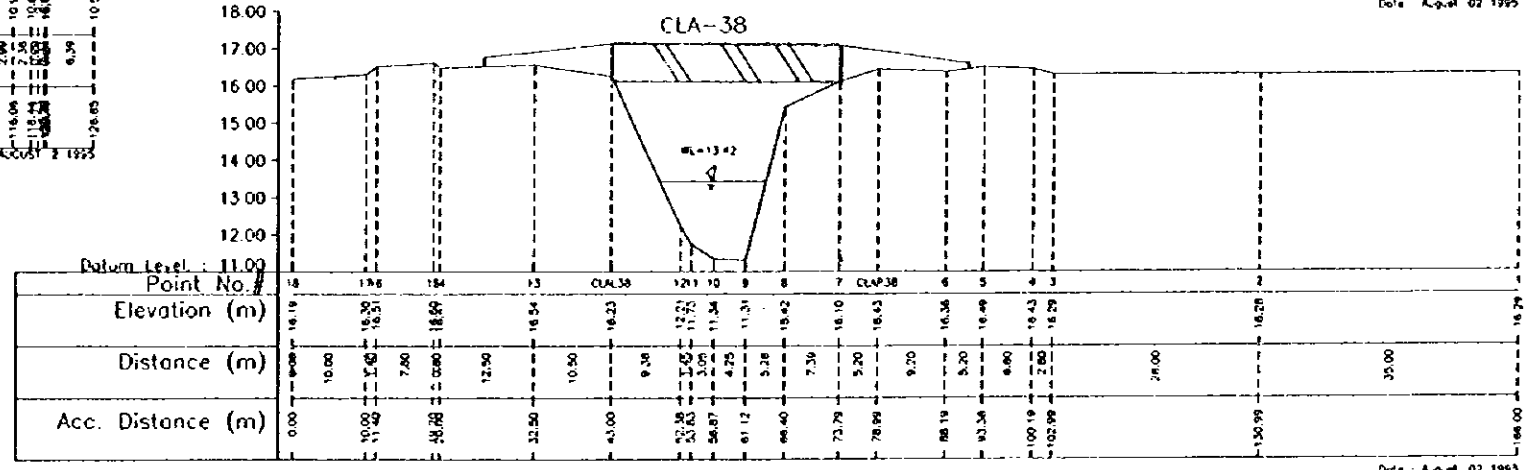
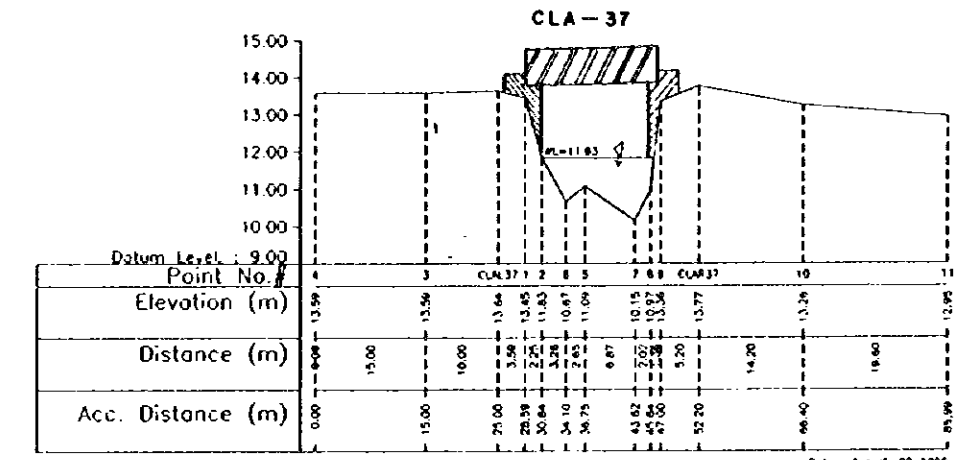
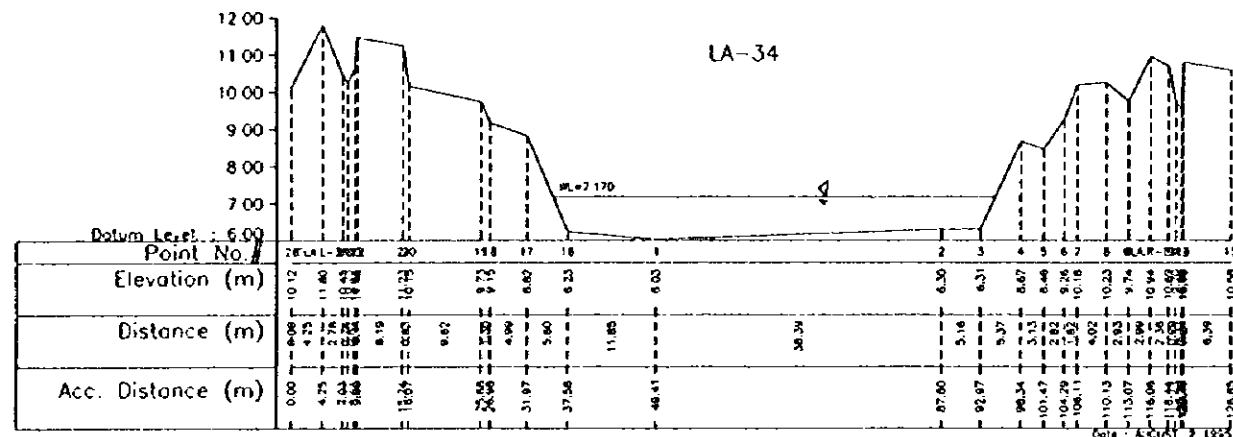
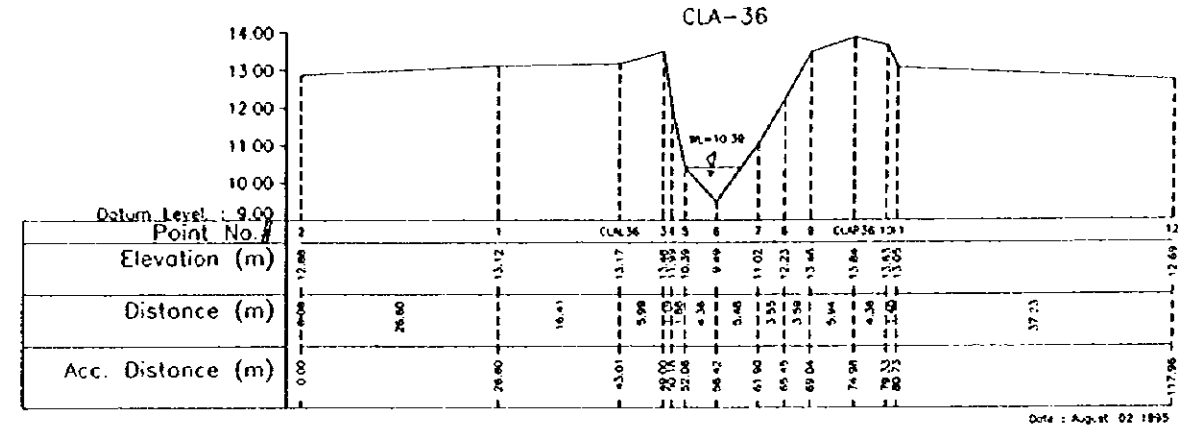
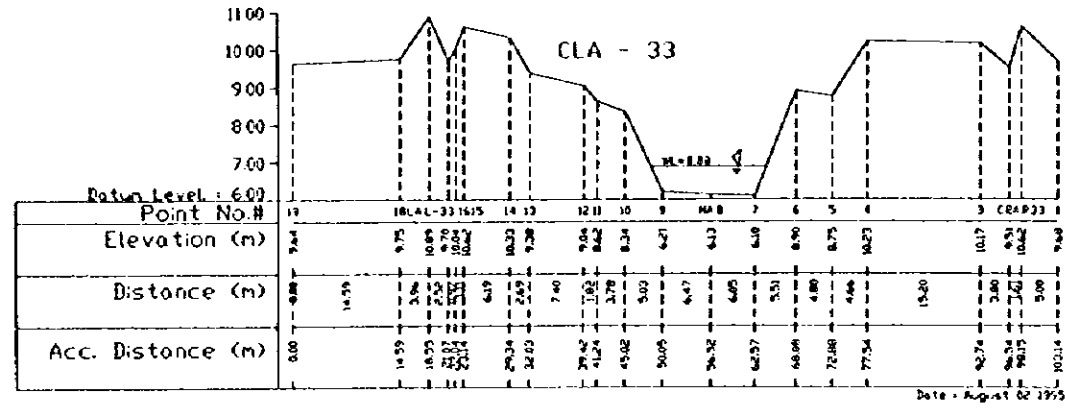
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CILEMAHABANG RIVER**
 Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
BRISNO SUCIAPITO	T. BUKU H. TOPRANE	Horizontal 1 : 500 Vertical 1 : 100	6 of 10

Signature: 15/08/95 19/11/95 27/11/95

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WHATMAN & Associates JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TIC 177 = 40.136 meters
 The correlation between other system are
 TIC 177 ± 0 = NWP - 0.975 meters = PP 4

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

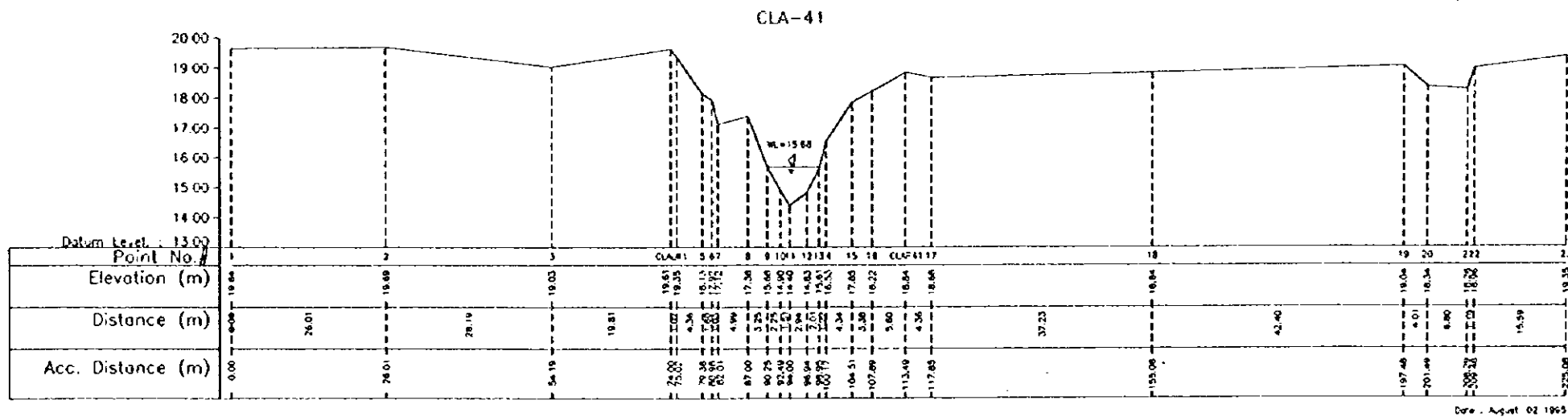
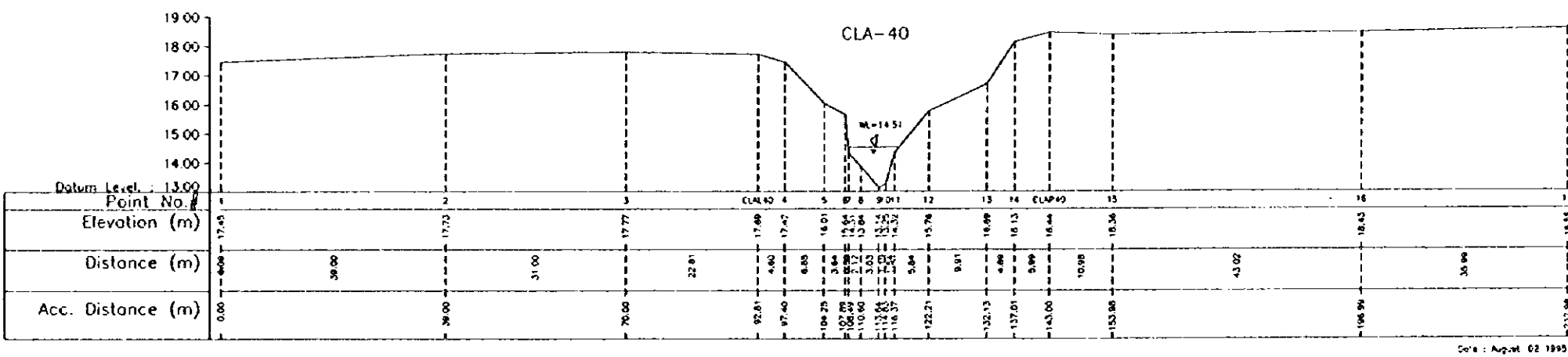
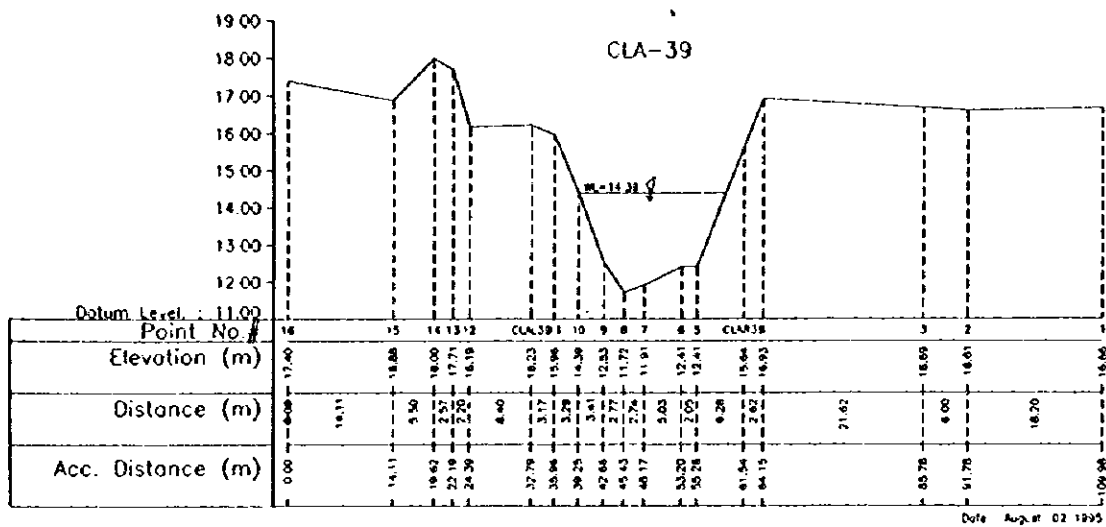
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CILEMAHABANG RIVER** Drawing Title : **CROSS SECTION**

Checked by : [Signature] Approved by : [Signature] Scale : Horizontal 1 : 500 Sheet No : 7 of 10

Date : [Date] Vertical 1 : 100

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WARATMAN & Associates** JAKARTA -- INDONESIA



Reference Point:
 The Elevation is referred to ITG 177 = +0.136 meters
 The correlation between other system are
 ITG 177 ± 0 = NWP - 0.975 meters = PP ± meter

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

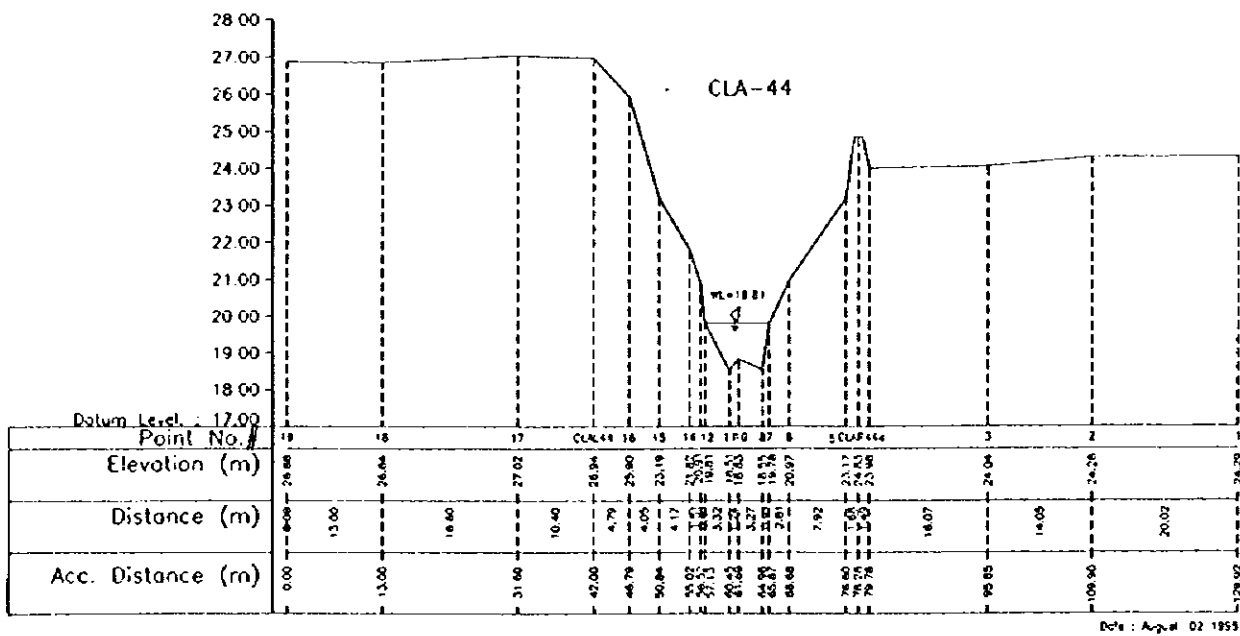
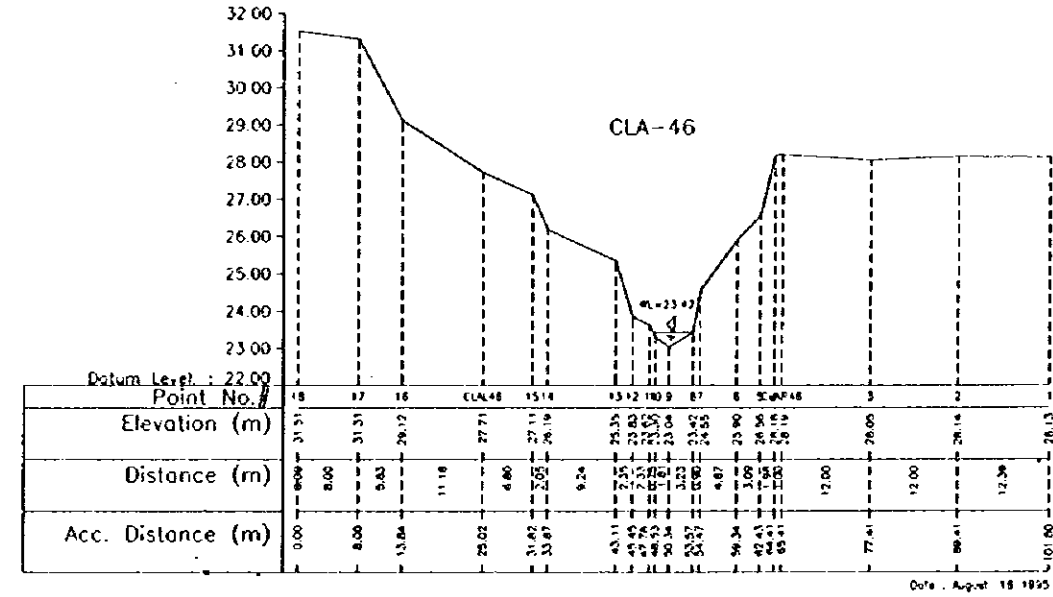
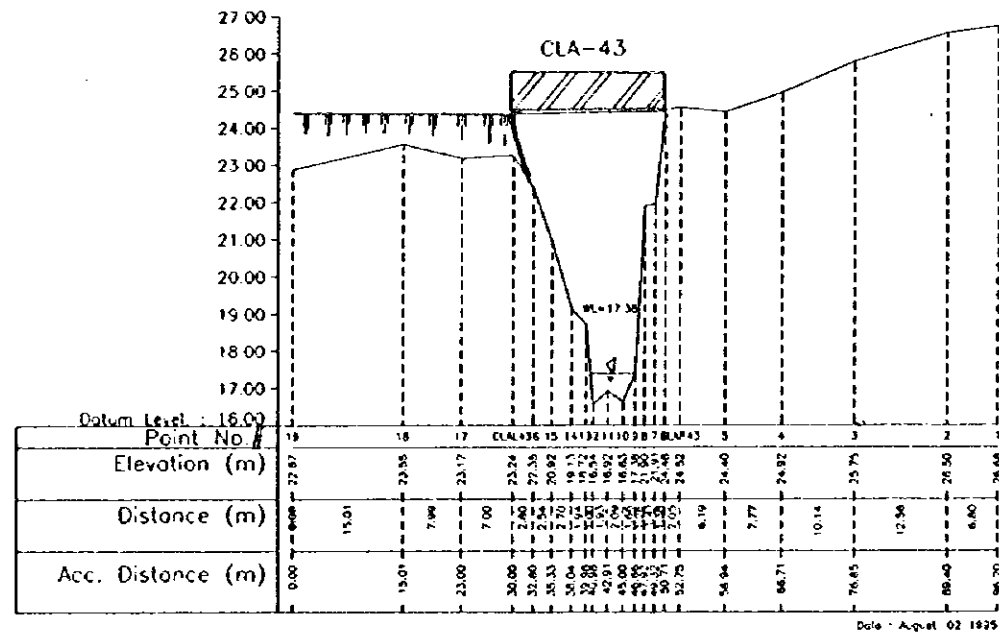
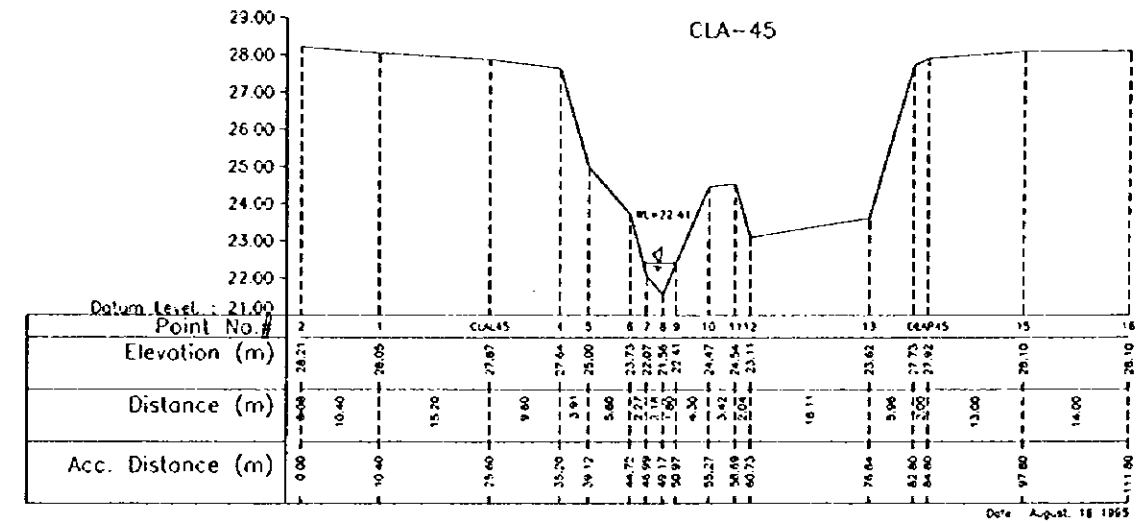
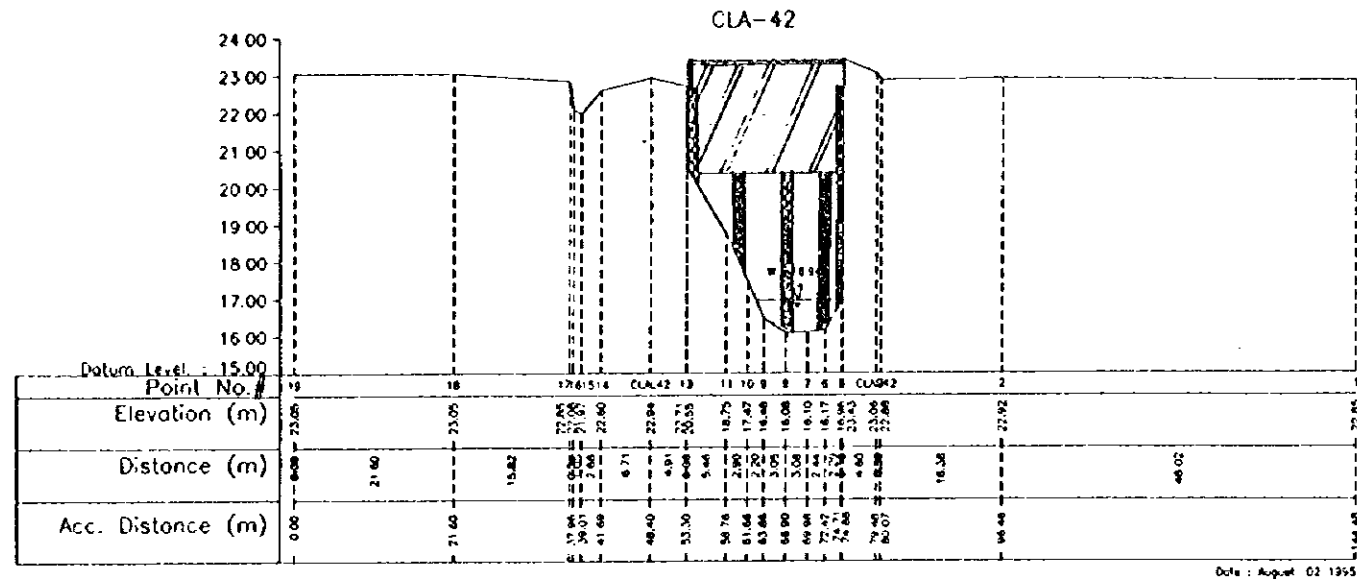
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILEMAHABANG RIVER
 Drawing Title : CROSS SECTION

Checked by	Approved by	Scale	Sheet No.
BACWNO	SUCOWASO	Horizontal 1 : 500	8 of 10
Signature	Signature	Vertical 1 : 100	
Date	Date		

12.11.95 19.11.95 27.11.95

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WATANABE & Associates JAKARTA - INDONESIA



Reference Point :
 The Elevation is related to TIG 177 = 40.158 meters
 The correlation between other system are :
 TIG 177 ± 0 = NAP - 0.975 meters = PP ± . . . meter

(IN METERS)
 1 : 500

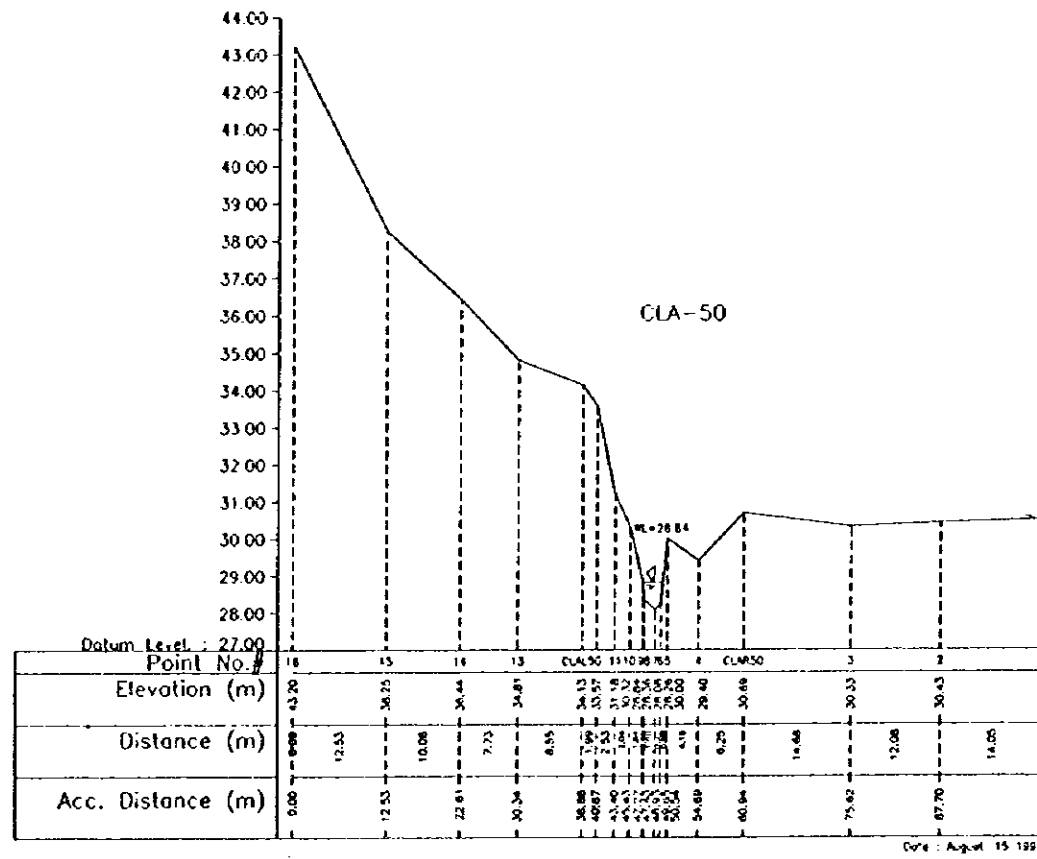
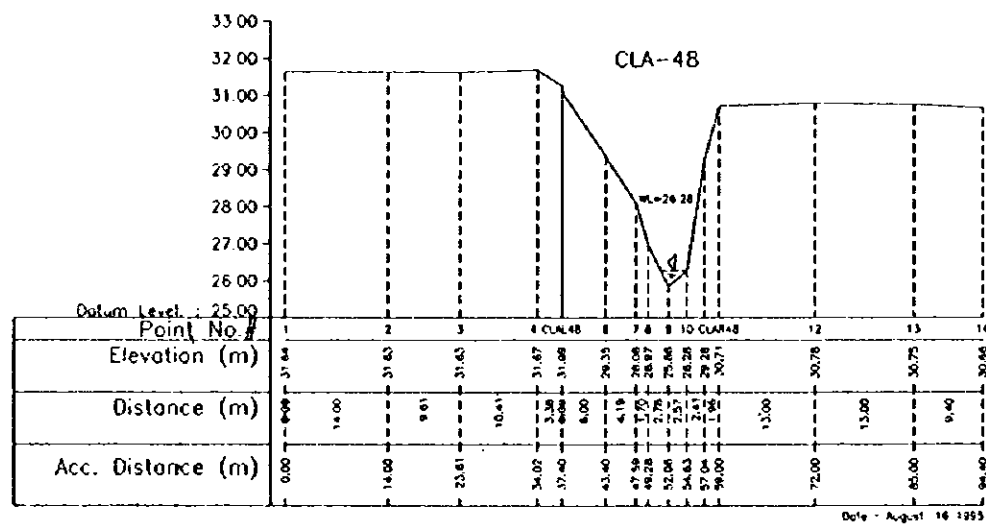
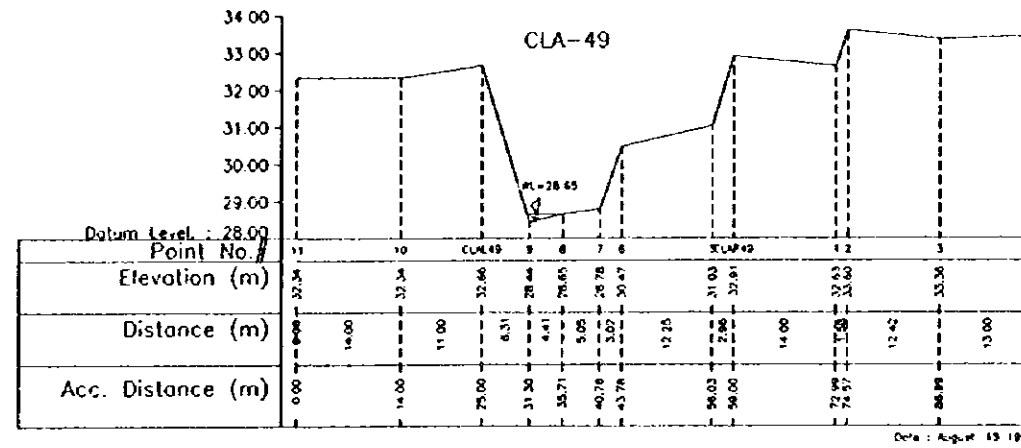
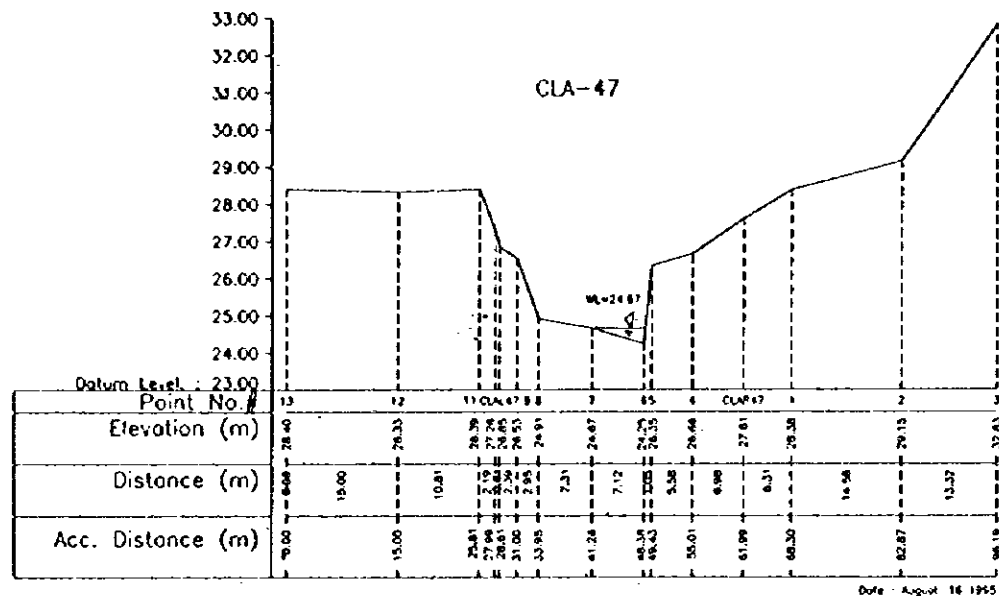
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CILEMAHABANG RIVER** Drawing Title : **CROSS SECTION**

Checked by : Name : BAWONO Signature : [Signature] Date : 10.11.95	Approved by : Name : S. EDWARD Signature : [Signature] Date : 18.11.95	Scale : Horizontal : 1 : 500 Vertical : 1 : 100	Sheet No : 9 of 10
---	---	---	-----------------------

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TTG 177 = 40.136 meters
 The correlation between other system are :
 TTG 177 ± 0 = HNP - 0.875 meters = PP + meter

(IN METERS)
 1:1000
 1:500

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILEMAHABANG RIVER
 Drawing Title : CROSS SECTION

Checked by	Approved by	Scale	Sheet No
SIGNO SOEWANTO	T. M. W. A. TOPIK	Horizontal 1 : 500	10 of 10
Signature	Signature	Vertical 1 : 100	
Date : 15.11.95	Date : 15.11.95		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WHITMAN & Associates
 JAKARTA - INDONESIA

10 Topographic Mapping of DKI Jakarta



SCALE 1 : 5,000



LEGEND

- ▲ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot Height
- ~ River
- ▣ Concrete Buildings (more than 4th floor)
- ▢ House
- ⊞ Mosque
- ⊞ Church
- ⊞ Hospital
- ⊞ School
- ⊞ Government Office
- Road
- - - Path
- ≡ Bridge
- ⋯ Railway
- ⊞ Station
- +— Electric Power Line
- ▨ Cutting and Embankment
- ⊞ Swamp
- ⊞ Moslem grave
- ⊞ Christian cemetery
- ⊞ Chinese grave
- ⊞ Paddy field
- ⋯ Boundary of Vegetation
- ∇ Field
- Forest
- W Grass
- ⊞ Water hole
- ⊞ Pond, Lake
- ⊞ Sand
- ⊞ Land Slide

	1208-434										1208-444																			
meter	18	19	20	21	22	23	24	25	26	27	28	29	30	18	19	20	21	22	23	24	25	26	27	28	29	30				
meter	23	24	25	26	27	28	29	30	31	32	33	34	35	23	24	25	26	27	28	29	30	31	32	33	34	35				
meter	3	4	5	6	7	8	9	10	11	12	13	14	15	3	4	5	6	7	8	9	10	11	12	13	14	15				
meter	8	9	10	11	12	13	14	15	16	17	18	19	20	8	9	10	11	12	13	14	15	16	17	18	19	20				
meter	13	14	15	16	17	18	19	20	21	22	23	24	25	13	14	15	16	17	18	19	20	21	22	23	24	25				
meter	18	19	20	21	22	23	24	25	26	27	28	29	30	18	19	20	21	22	23	24	25	26	27	28	29	30				
meter	23	24	25	26	27	28	29	30	31	32	33	34	35	23	24	25	26	27	28	29	30	31	32	33	34	35				
	1208-433										1208-441										1208-442									

X, Y : Based UTM Zone 48
N : Mean sea level (TTG)

Index contour : 10 meter
Main contour : 2 meter
Supplemental contour : 1 meter
Aerial photography : 1:10000 October 1994

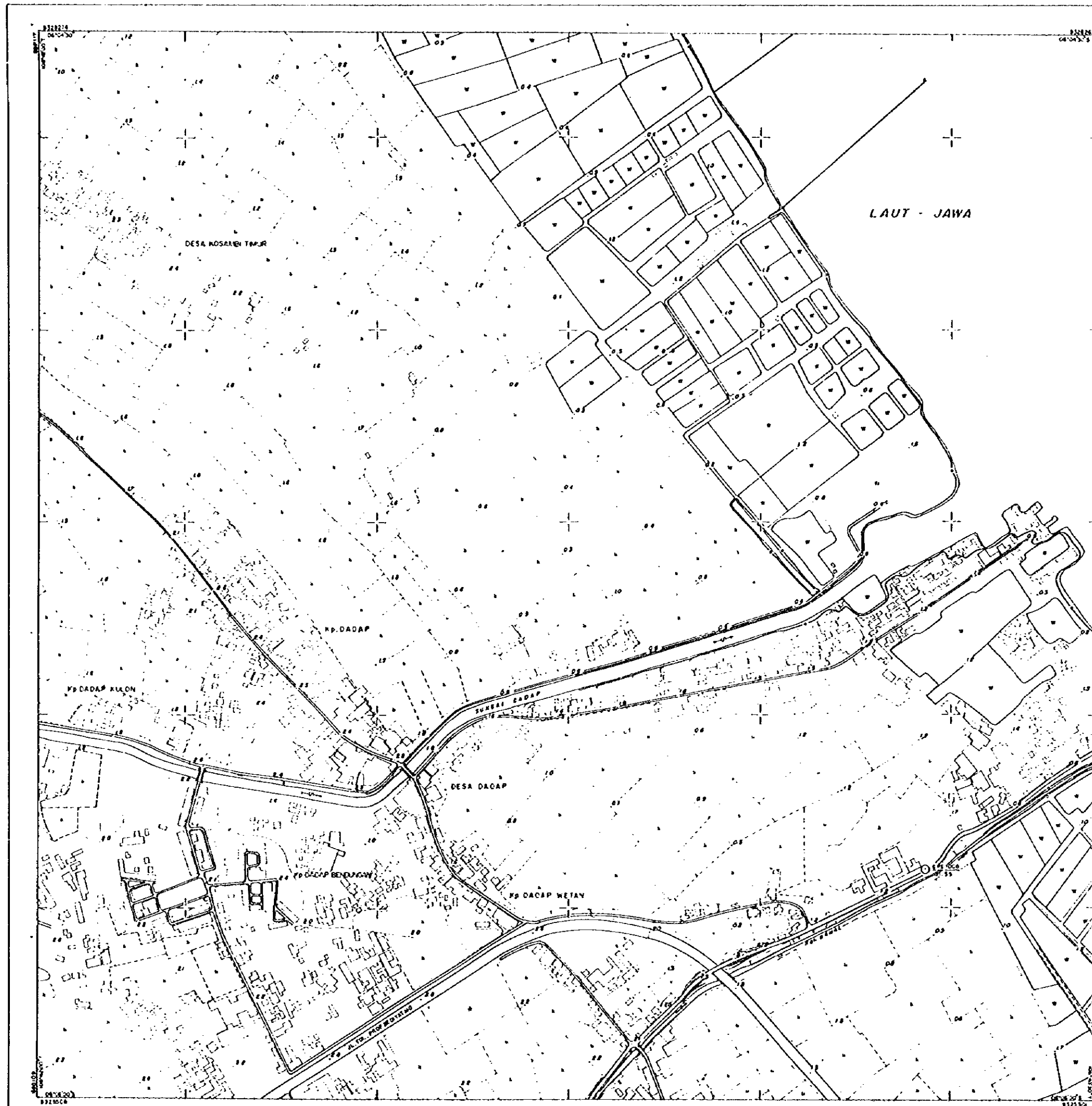
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CULWANG OSADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

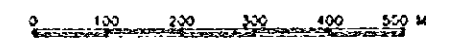
Working Map 1
TOPOGRAPHIC MAP

Checked by	Approved by	Field Survey No. 08
Signature	Signature	April 24 1995
Date	Date	Field Survey No. 07
6-2-94	6-2-94	1994-1995

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 D.P.T. ATLAS DELTASATYA



SCALE 1 : 5 000



LEGEND

- | | | | |
|---|--|-----|------------------------|
| ▲ | Existing Triangulation Point | ⊙ | Station |
| ⊙ | GPS Point | —+— | Electric Power Line |
| ⊕ | Existing Bench Mark | | Cutting and Embankment |
| • | Spot Height | ⊖ | Swamp |
| — | River | ⊖ | Muslim graves |
| ▭ | Concrete Building (more than 4m floor) | ⊖ | Christian cemetery |
| □ | House | ⊖ | Chinese graves |
| ⊖ | Mosque | ⊖ | Paddy field |
| ⊖ | Church | ⊖ | Boundary of Vegetation |
| ⊖ | Hospital | ∇ | Field |
| ⊖ | School | ⊖ | Forest |
| ⊖ | Government Office | ∇ | Grass |
| — | Road | ⊖ | Water hole |
| — | Path | ⊖ | Pond, lake |
| — | Bridge | ⊖ | Sand |
| — | Rail Road | ⊖ | Land Slide |

	1208-434				1208-444			
meter	19	20			16	17	18	19
meter	23	24	25	21	22	23	24	25
meter	3	4	5	1	2	3	4	5
meter	8	9	10	6	7	8	9	10
meter	13	14	15	11	12	13	14	15
meter	18	19	20	16	17	18	19	20
meter	23	24	25	21	22	23	24	25
meter	1208-432				1208-442			

X, Y : Base of UTM Zone 48
 H : Mean sea level (TTG)

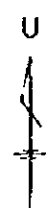
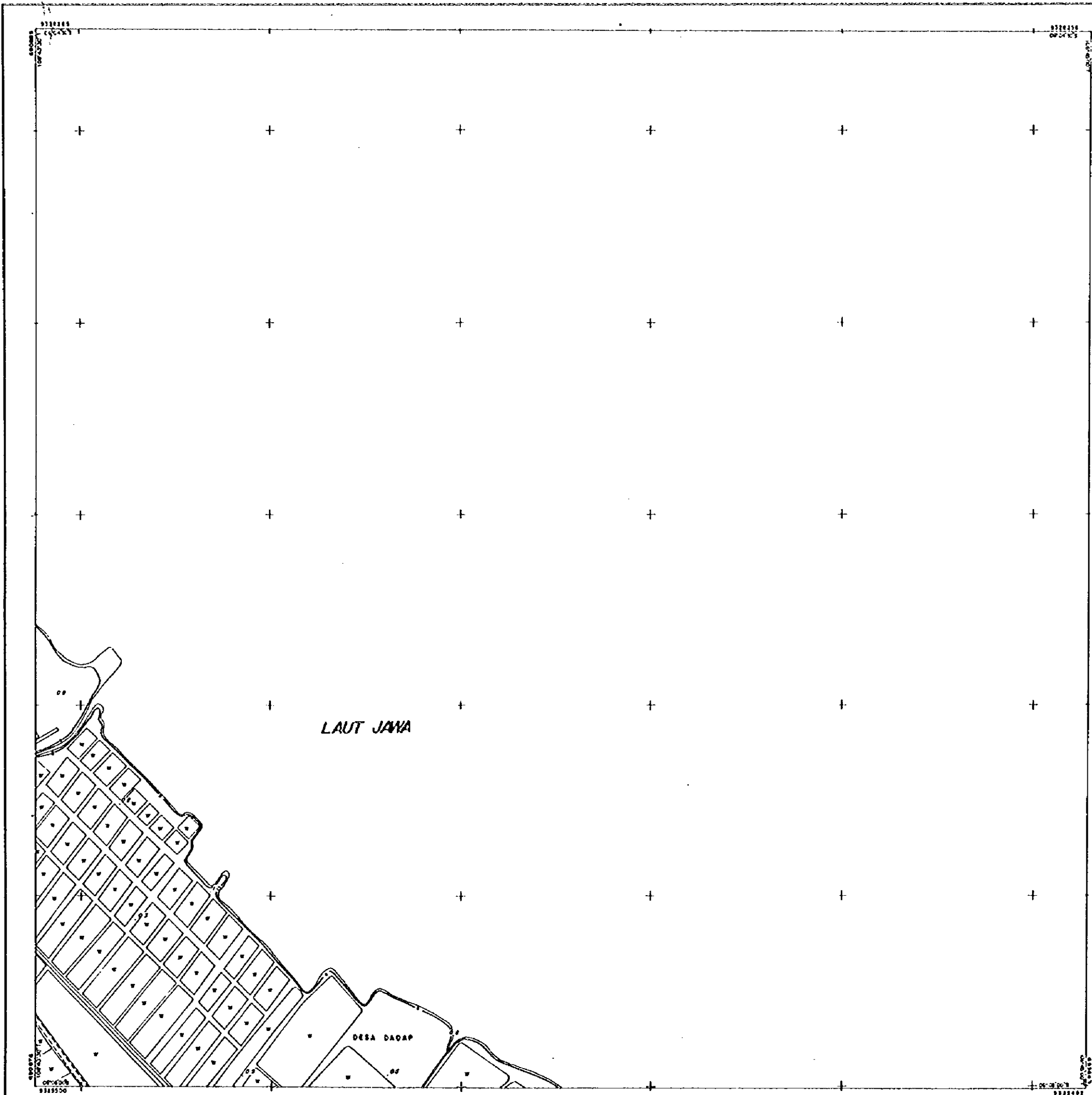
Index contour : 10 meter
 Main contour : 2 meter
 Supplemental contour : 1 meter
 Aerial photography : 1 : 20 000
 May 1994

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILAMPUNG OSADANE RIVER BASIN DEVELOPMENT PROJECT
 THE STUDY COMPREHENSIVE RIVER WATER
 MANAGEMENT PLAN IN JABOTABEK

Drawing Title : **TOPOGRAPHIC MAP**

Checked by	Approved by	Field Survey '85 08
Signature	Signature	Signature
Date	Date	Date

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 PT. ATLAS DELTASATTA

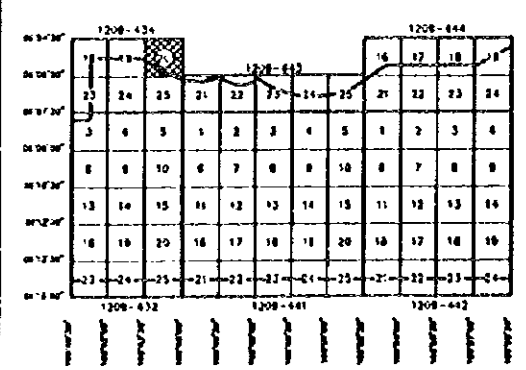


SCALE 1 : 5 000



LEGEND

- △ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot Height
- ~ River
- ▭ Concrete Building (more than 4th floor)
- ▭ House
- ▭ Mosque
- ▭ Church
- ⊙ Hospital
- ▭ School
- △ Government Office
- Road
- - - Path
- ≡ Bridge
- ⋯ Railway
- ⊙ Station
- +— Electric Power Line
- ▨ Cutting and Embankment
- ▨ Swamp
- ⊙ Mown grass
- ⊙ Christian cemetery
- ⊙ Orissa graves
- ▭ Paddy field
- ⋯ Boundary of Vegetation
- ∇ Field
- Forest
- ∇ Grass
- Water hole
- Pond, lake
- ▭ Sand
- ▭ Land Slide



X, Y : Based UTM Zone 48
 H : Mean sea level (TTG)
 Index contour : 10 meter
 Main contour : 2 meter
 Supplemental contour : 1 meter
 Aerial photography : 1:20,000
 May 1994

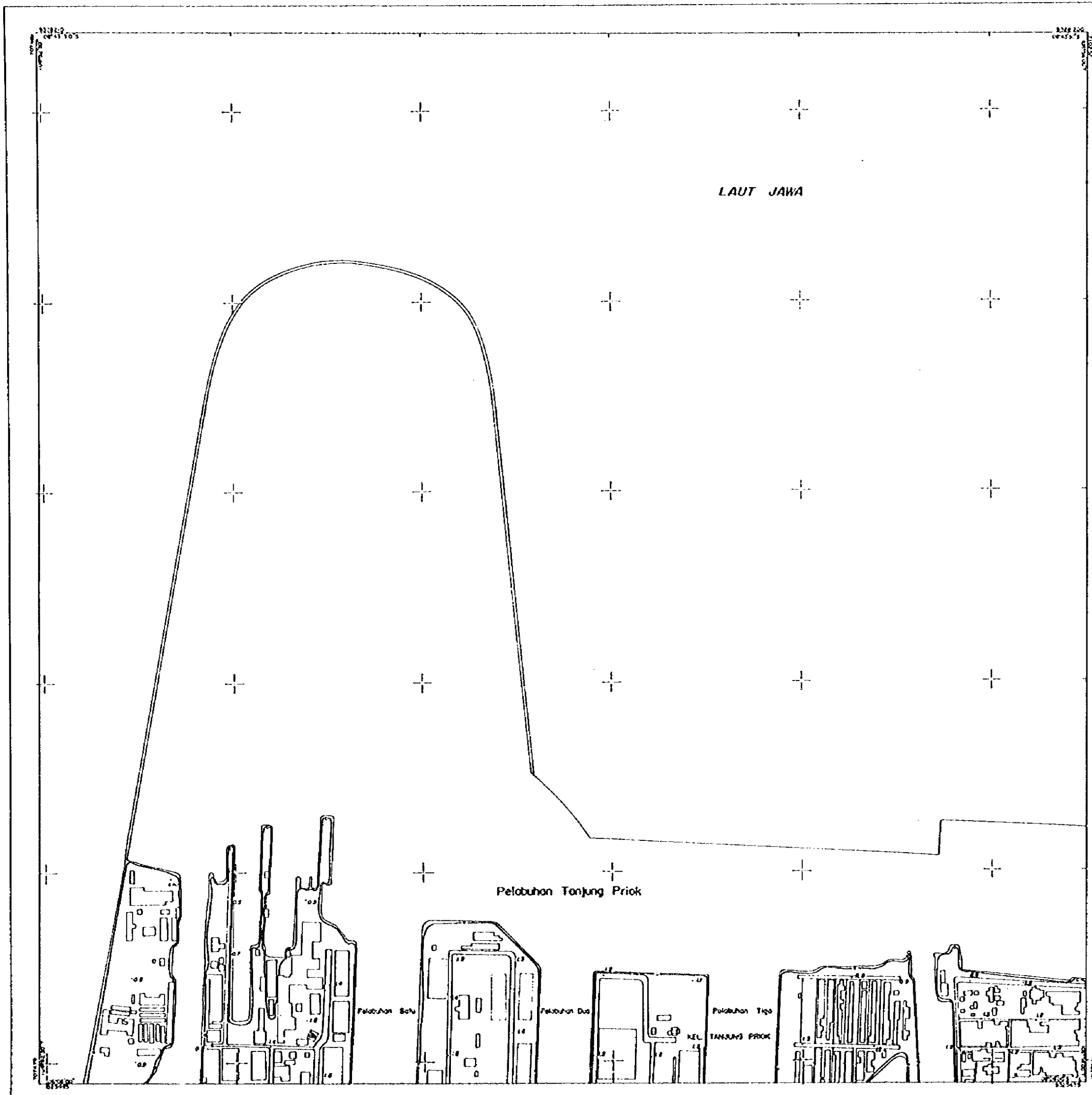
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 GUNUNG CIDADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER
 MANAGEMENT PLAN IN JABOTABEK

Drawing Title : **TOPOGRAPHIC MAP**

Checked by		Approved by		File Name
Name	Signature	Name	Signature	File No
Sumartono	<i>[Signature]</i>	L. B. H. P.	<i>[Signature]</i>	1208-434
Date	1-2-94	Date	1-2-94	Sheet No

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 PT. ATAS BELTASATYA
 1208-434
 20



SCALE 1 : 5 000



LEGEND

- △ Existing Triangulation Point
- ⊙ GPS Point
- ⊠ Existing Bench Mark
- Spot Height
- ~ River
- ▭ Concrete Building (more than 4m floor)
- House
- ⊕ Mosque
- ⊕ Church
- ⊕ Hospital
- ⊕ School
- ⊕ Government Office
- Road
- - - Path
- ≡ Bridge
- ⋯ Red Road
- ⊕ Station
- +— Electric Power Line
- ▨ Cutting and Embankment
- ▨ Swamp
- ⊕ Modern grass
- ⊕ Christian cemetery
- ⊕ Chinese grass
- ⊕ Paddy field
- ⋯ Boundary of Vegetation
- ∨ Field
- ⊕ Forest
- ∨ Grass
- Water hole
- Pond, lake
- Sand
- ⊕ Land Slide

	1208-434				1208-435				1208-444			
1208-434	19	18	23		23	24	25	26	27	28	29	30
1208-435	27	26	25	24	23	22	21	20	19	18	17	16
1208-444	3	4	5	6	7	8	9	10	11	12	13	14
	8	9	10	11	12	13	14	15	16	17	18	19
	13	14	15	16	17	18	19	20	21	22	23	24
	18	19	20	21	22	23	24	25	26	27	28	29
	23	24	25	26	27	28	29	30	31	32	33	34
	39	40	41	42	43	44	45	46	47	48	49	50

X, Y : Pseudo UTM Zone 48
H : Mean sea level (MTG)

Index contour : 10 meter
Main contour : 2 meter
Supplemental contour : 1 meter
Aerial photography : 1:20,000
May 1994

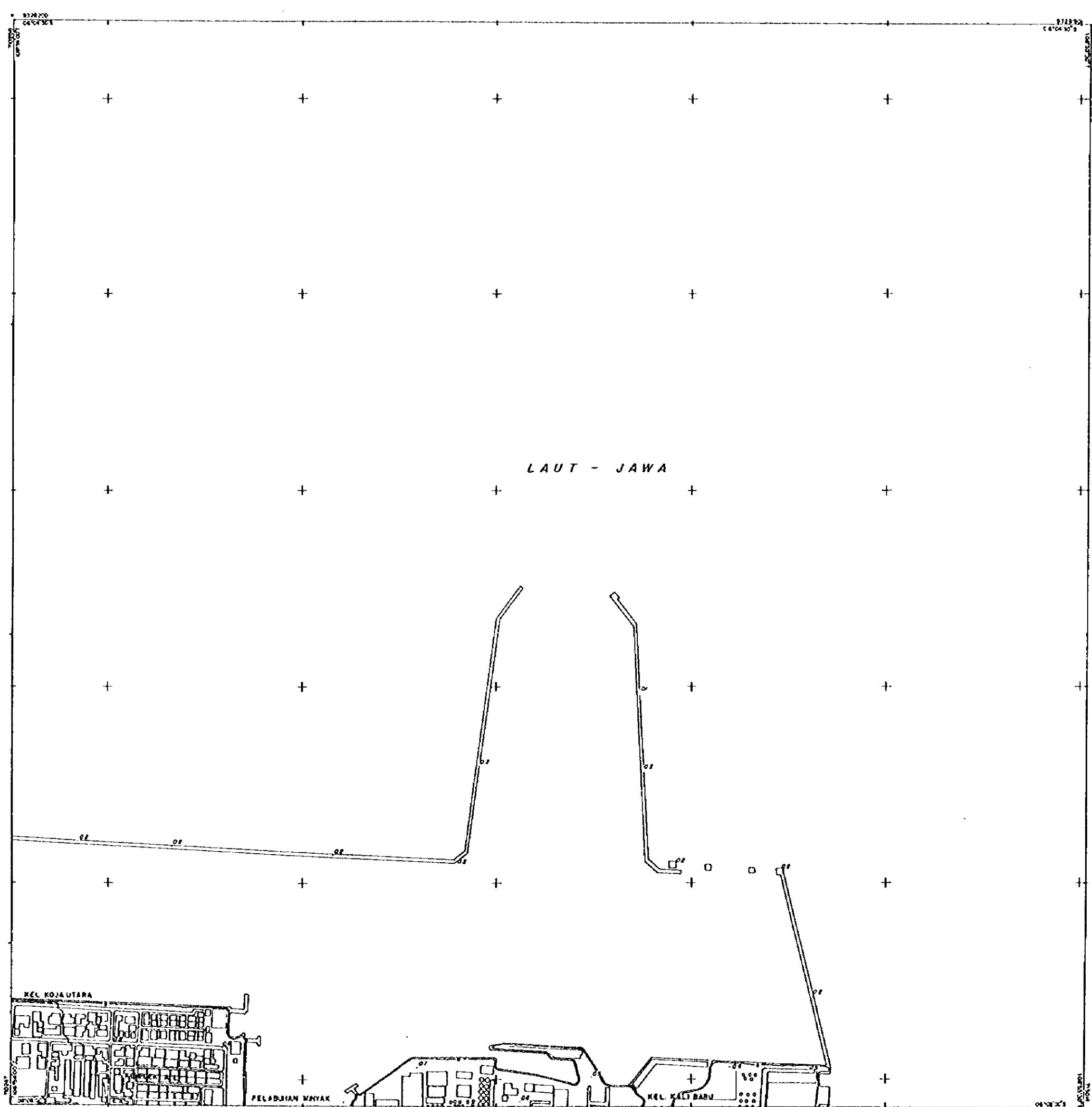
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CLIMUNG OSADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

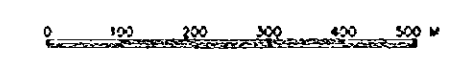
Drawing Title : **TOPOGRAPHIC MAP**

Checked by	Subarto	1. Ind	Approved by	I. Baskara	Field Survey '88-89
Name	Sumaryono	1. Ind	Signature	1. Baskara	Field '88, '89
Date	20-7-94	20-7-94	Date	20-7-94	Field Survey '88-89

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **PT. ARAS DOLABATYA** (Sheet No. 1208-444)



SCALE 1 : 5 000



LEGEND

- △ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot height
- ~ River
- ▭ Concrete Building (more than 400sq)
- ▭ House
- ⊞ Mosque
- ⊞ Church
- ⊞ Hospital
- ⊞ School
- ⊞ Government Office
- ▭ Road
- Path
- == Bridge
- Pathway
- ⊞ Station
- Electric Power Line
- ▭ Cutting and Embankment
- ▭ Swamp
- ~ Mosaic grass
- ⊞ Christian cemetery
- ~ Chinese grass
- ▭ Paddy field
- Boundary of Vegetation
- ∇ Field
- ∇ Forest
- ∇ Grass
- Water hole
- Pond, lake
- ~ Sand
- ~ Land Slide

1208-434										1208-444									
18	19	20	21	22	23	24	25	26	27	18	19	20	21	22	23	24	25	26	27
23	24	25	26	27	28	29	30	31	32	23	24	25	26	27	28	29	30	31	32
3	4	5	6	7	8	9	10	11	12	3	4	5	6	7	8	9	10	11	12
8	9	10	11	12	13	14	15	16	17	8	9	10	11	12	13	14	15	16	17
13	14	15	16	17	18	19	20	21	22	13	14	15	16	17	18	19	20	21	22
18	19	20	21	22	23	24	25	26	27	18	19	20	21	22	23	24	25	26	27
23	24	25	26	27	28	29	30	31	32	23	24	25	26	27	28	29	30	31	32
1208-435										1208-445									

X, Y : Based UTM Zone 48
 H : Mean sea level (TTG)

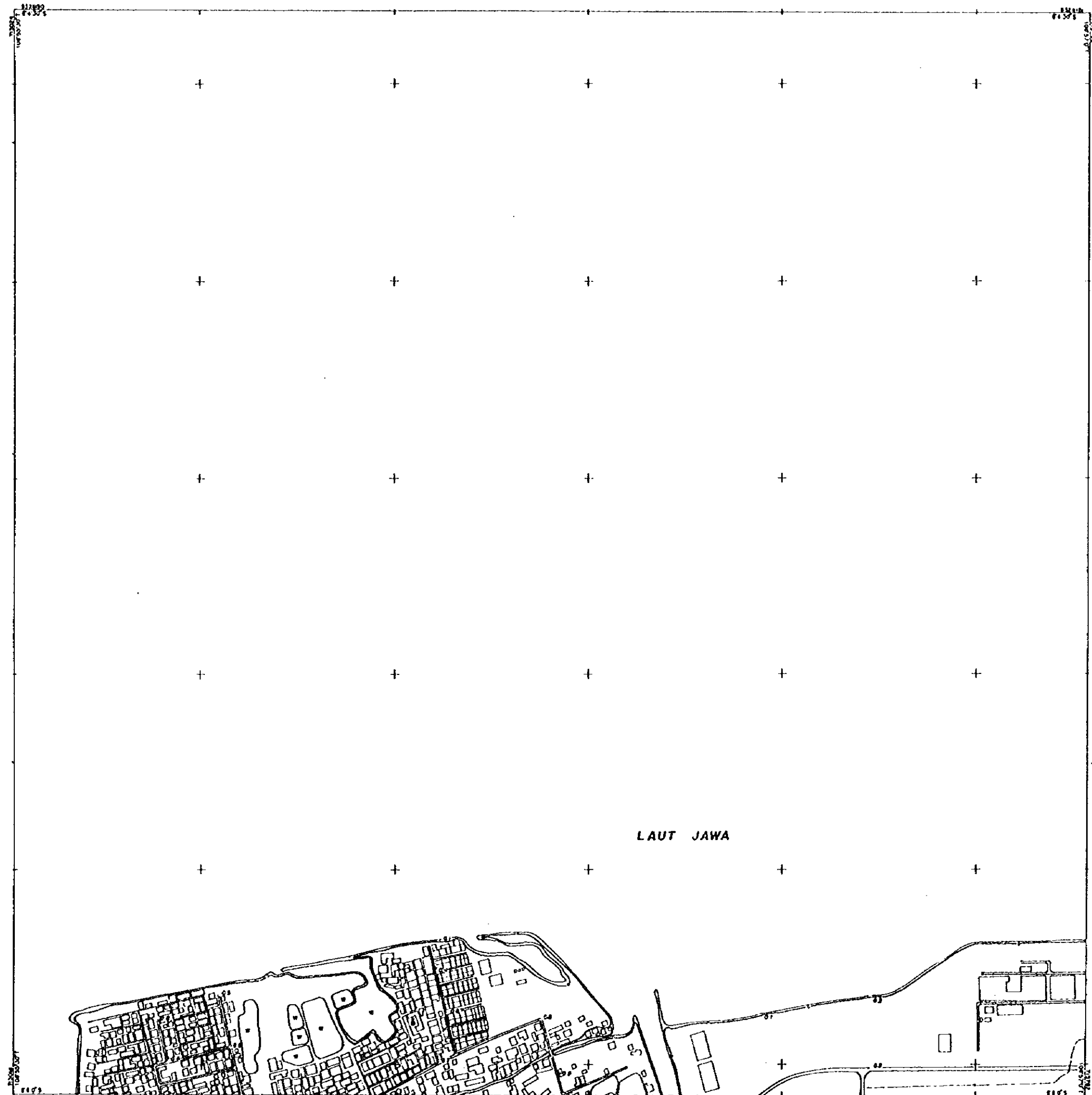
Index contour : 10 meter
 Main contour : 2 meter
 Supplemental contour : 1 meter
 Area of photography : 1 : 20,000
 May 1994

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 DUKUNGGUNG DASARANE RIVER BASIN DEVELOPMENT PROJECT

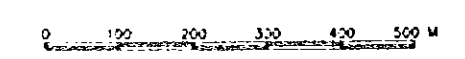
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Drawing No : **TOPOGRAPHIC MAP**

Checked by	Approved by	Field Survey '88
Name: Sumarto	Name: I. W. S.	April '88
Signature: [Signature]	Signature: [Signature]	Fielding '88
Date: 20-1-96	Date: 20-1-96	Field Drawing '88
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		Sheet No. 208-444-17

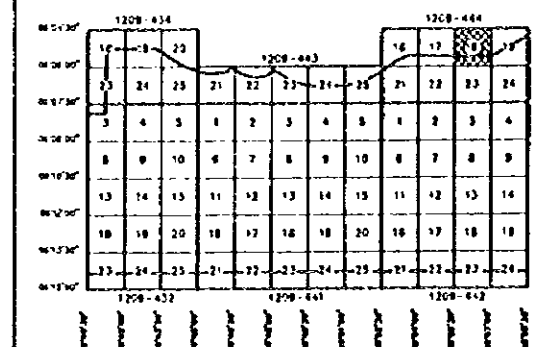


SCALE 1:5000



LEGEND

- △ Existing Triangulation Point
- ⊙ GPS Point
- Existing Bench Mark
- Spot Height
- ⚡ River
- ▭ Concrete Building (more than 400 m²)
- House
- ⚑ Mosque
- ⛪ Church
- ⚕ Hospital
- ⚖ School
- ⚖ Government Office
- Road
- - - Path
- ⚖ Bridge
- ⋯ Railway
- ⚡ Station
- ⚡ Electric Power Line
- ▭ Cutting and Embankment
- ▭ Swamp
- ⌒ Mosaic grass
- ↑ Cremation cemetery
- ⌒ Chinese graves
- ⌒ Paddy field
- ⌒ Boundary of Vegetation
- ∇ Field
- ∇ Forest
- ∇ Grass
- ⌒ Water hole
- ⌒ Pond, lake
- ⌒ Sand
- ⌒ Land Slide



X, Y : Bessel UTM Zone 48
H : Mean sea level (1978)

Index contour : 10 meter
Main contour : 2 meter
Supplemental contour : 1 meter
Aerial photography : 1:20 000
May 1994

MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CIKUPUNG OSADANE RIVER BASIN DEVELOPMENT PROJECT

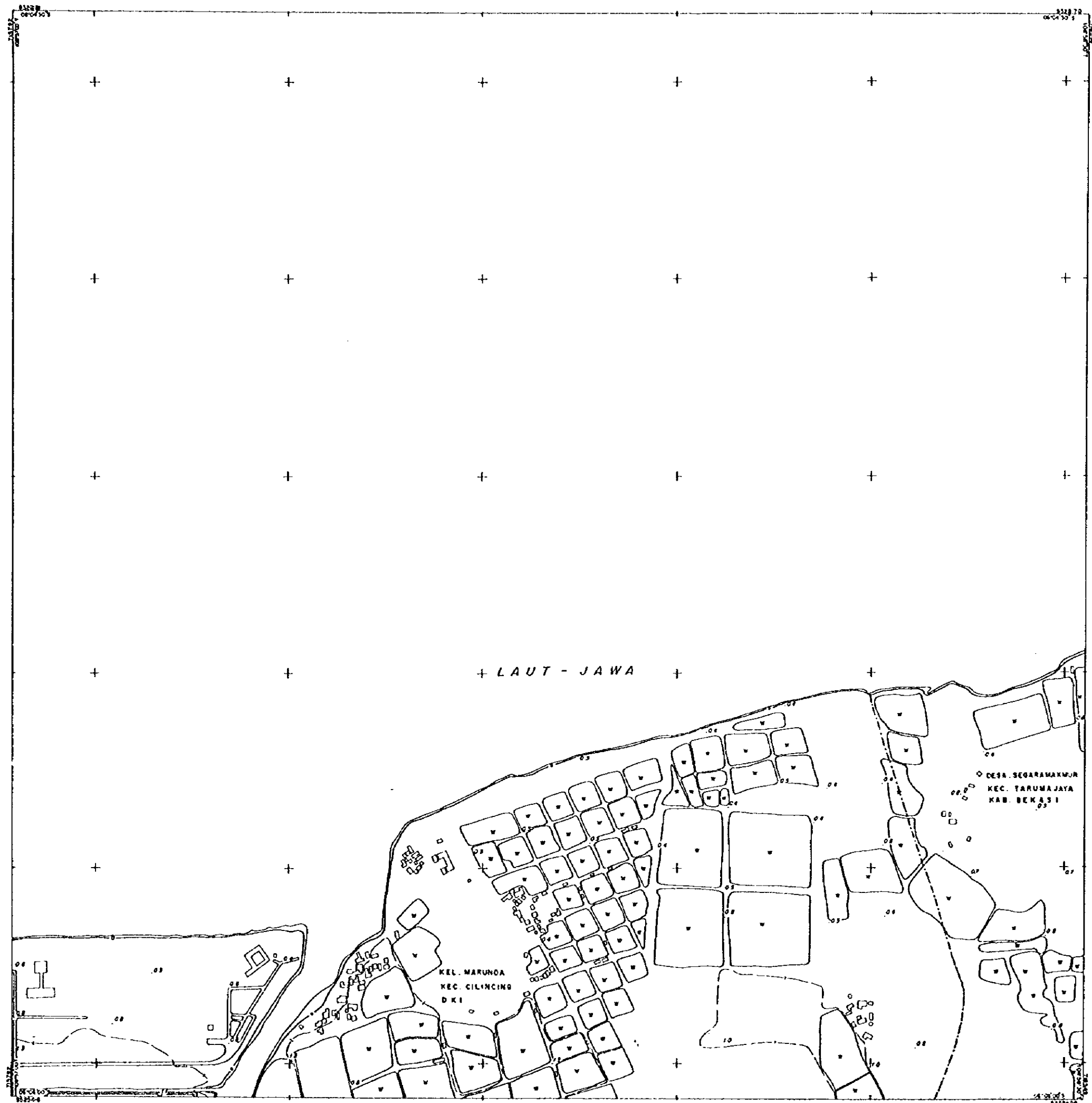
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Drawing Title: **TOPOGRAPHIC MAP**

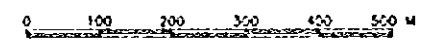
Checked by:	Approved by:	Date: Sunday 24 Dec
Name: Sumartono	Name: I. B. S. S.	Date: April 21 1994
Signature: [Signature]	Signature: [Signature]	Date: 20-1-94
Date: 20-1-94	Date: 20-1-94	Date: 20-1-94

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

PT. ATLAS BULSATIYA 1208-444 18



SCALE 1 : 5 000



LEGEND

- △ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot Height
- ~ River
- ▭ Concrete Building (maximum 4m floor)
- ▭ House
- ▭ Mosque
- ▭ Church
- Hospital
- ▭ School
- ▭ Government Office
- Road
- - - Path
- == Bridge
- Railway
- ⊙ Station
- +— Electric Power Line
- ▭ Cutting and Embankment
- ▭ Swamp
- ~ Moslem graves
- ⊙ Christian cemetery
- ~ Chinese graves
- ▭ Paddy field
- Boundary of Vegetation
- ∇ Field
- ▭ Forest
- ∇ Grass
- Water hole
- Pond, lake
- ~ Sand
- ~ Landslide

METER	1208-434								1208-444								
	18	19	20	21	22	23	24	25	16	17	18	19	20	21	22	23	24
1208-434	23	24	25	21	22	23	24	25	21	22	23	24	25	21	22	23	24
1208-435	5	6	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4
1208-436	8	8	10	6	7	6	9	10	6	5	7	6	8	8	8	8	8
1208-437	13	14	15	11	12	13	14	15	11	12	13	14	15	11	12	13	14
1208-438	18	18	20	16	17	16	19	20	16	17	18	17	18	18	18	18	18
1208-439	23	24	25	21	22	23	24	25	21	22	23	24	25	21	22	23	24

X, Y : Bessel UTM Zone 48
 M : Mean sea level (TIG)

Index contour : 10 meter
 Main contour : 2 meter
 Supplemental contour : 1 meter
 Aerial photography : 1 : 20 000
 May 1994

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 DILMUNG GASADANE RIVER BASIN DEVELOPMENT PROJECT

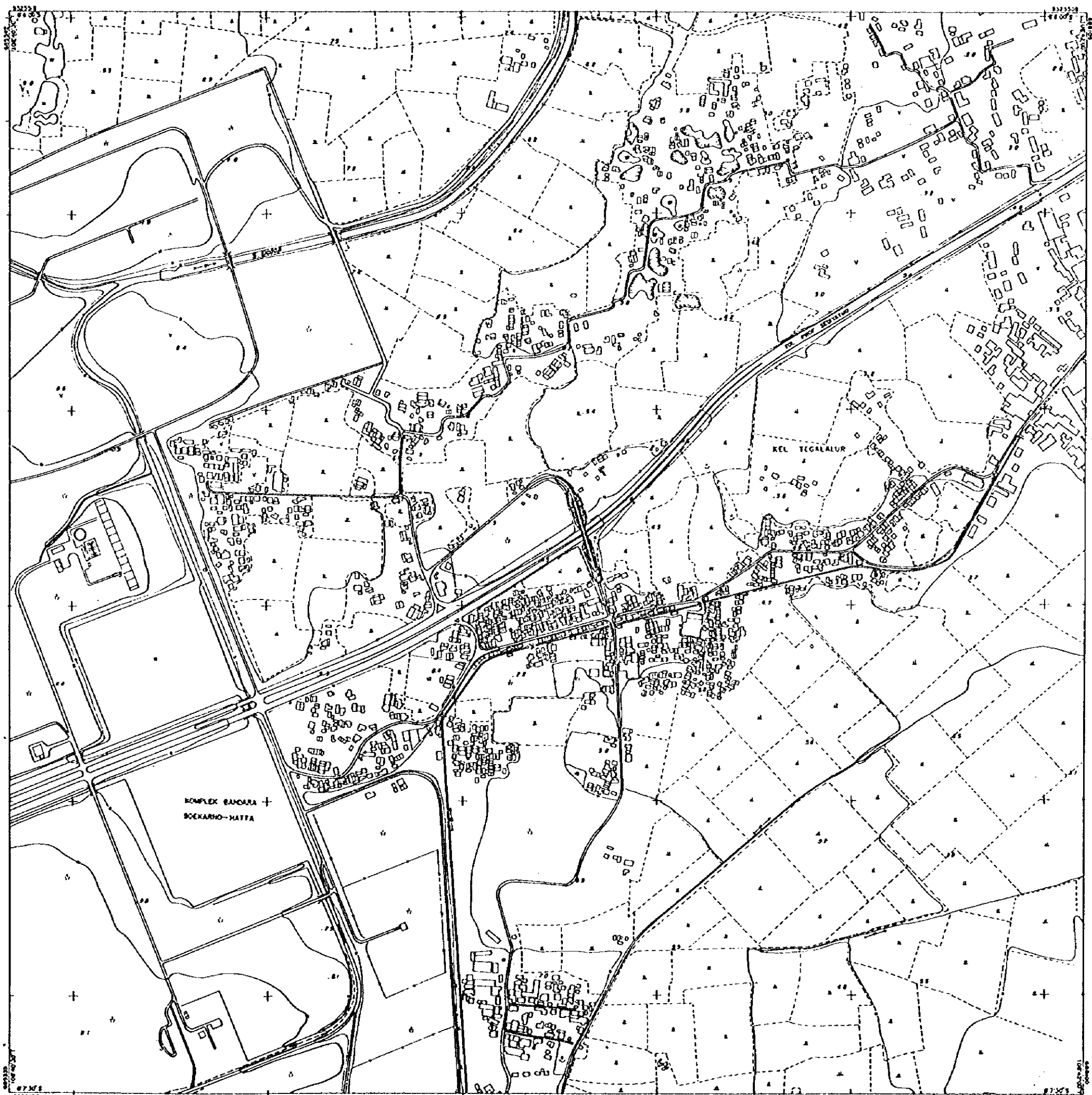
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Drawn To: **TOPOGRAPHIC MAP**

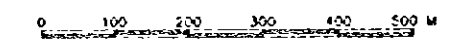
Checked by		Approved by		Printed by
Name	Signature	Name	Signature	Date
				April 1994
				May 1994
				June 1994

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

PT. PE. ARAS DELTASATIA 1200-444



SCALE 1 : 5000



LEGEND

- ▲ Existing Triangulation Point
- ⊙ GPS Point
- ⊠ Existing Bench Mark
- Spot height
- ~ River
- ▭ Concrete Building more than 4m floor
- ◻ House
- ⊞ Mosque
- ⊞ Church
- ⊞ Hospital
- ⊞ School
- ⊞ Government Office
- ~ Pond
- - - Path
- ≡ Bridge
- ⋯ Railway
- ⊞ Station
- Electric Power Line
- ▨ Cutting and Embankment
- ⊞ Swamp
- ⊞ Muslim graves
- ⊞ Christian cemetery
- ⊞ Chinese graves
- ⊞ Paddy field
- ⊞ Boundary of Vegetation
- ∇ Field
- ⊞ Forest
- ∇ Grass
- ⊞ Water hole
- ⊞ Pond, lake
- ⊞ Sand
- ⊞ Land Slide

1208-434					1208-434				
19	18	20			18	17	18	19	
24	25	21	22	24	21	22	23	24	
3	4	5	6	8	8	7	8	9	
8	9	10	9	7	10	9	7	8	9
13	14	15	11	12	14	15	11	12	14
18	18	20	18	17	18	19	16	17	18
23	24	25	21	22	24	25	21	22	24
1208-431					1208-431				

X, Y : Bessel UTM Zone 48
 N : Mean sea Level (ETG)
 Index contour : 10 meter
 Main contour : 2 meter
 Supplemental contour : 1 meter
 Aerial photography : 1 : 10000
 October 1994

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIMUNG CIGADANE RIVER BASIN DEVELOPMENT PROJECT
 THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

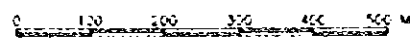
Drawing Title : **TOPOGRAPHIC MAP**

Checked by		Approved by		Field Survey '88
Name	Signature	Name	Signature	April '91
				July '91
Date	6-2-94	Date	6-2-94	Feb. Draft '91

JICA JAPAN INTERNATIONAL COOPERATION AGENCY PT. ATLAS DELTASATYA 1208-434 33



SCALE 1 : 5000



LEGEND

- △ Existing Triangulation Point
- GPS Point
- ⊙ Existing Bench Mark
- Spot Height
- ~ River
- ▭ Concrete Building (more than 4m high)
- House
- ⊕ Mosque
- ⊕ Church
- ⊕ Hospital
- ⊕ School
- ⊕ Government Office
- ⊕ Flood
- ⊕ Path
- ⊕ Bridge
- ⊕ Railway
- ⊕ Station
- ⊕ Electric Power Line
- ▨ Cutting and Embankment
- ▨ Swamp
- ⊕ Modern graves
- ⊕ Christian cemetery
- ⊕ Chinese graves
- ⊕ Paddy field
- ⊕ Boundary of vegetation
- ⊕ Field
- ⊕ Forest
- ⊕ Grass
- ⊕ Water hole
- ⊕ Pond, lake
- ⊕ Sand
- ⊕ Land Slide

122°50'	122°51'	122°52'	122°53'	122°54'	122°55'	122°56'	122°57'	122°58'	122°59'	123°00'	123°01'	123°02'	123°03'	123°04'	123°05'	123°06'	123°07'	123°08'	123°09'	123°10'									
6°15'	6°16'	6°17'	6°18'	6°19'	6°20'	6°21'	6°22'	6°23'	6°24'	6°25'	6°26'	6°27'	6°28'	6°29'	6°30'	6°31'	6°32'	6°33'	6°34'	6°35'									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

X, Y Passel UTM Zone 48
H Mean sea level (TTG)

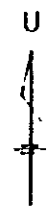
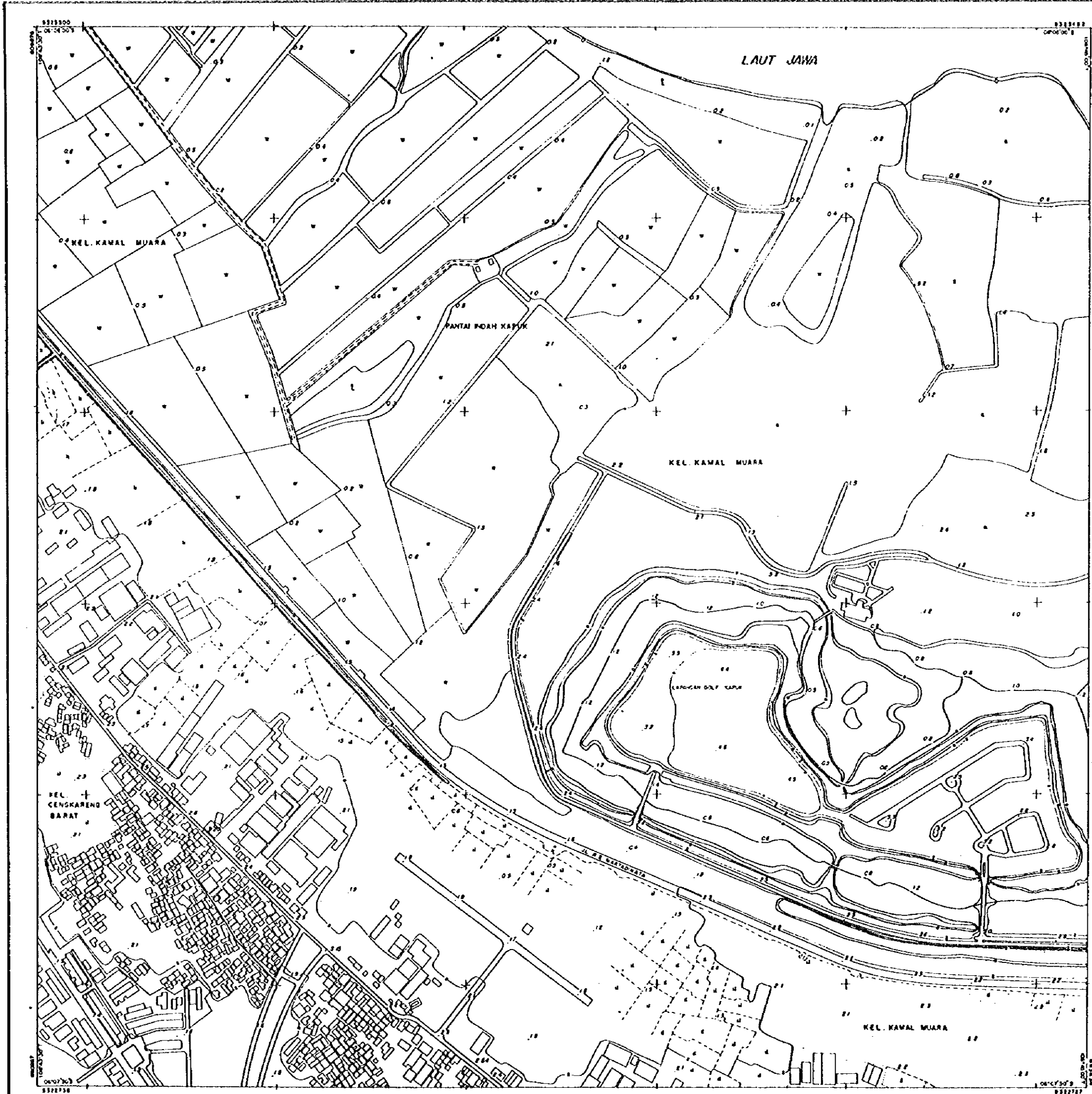
index contour 10 meter
 Main contour 2 meter
 Supplemental contour 1 meter
 Aerial photography 1:20,000
 May 1994

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CRUMUNG OSADANE RIVER BASIN DEVELOPMENT PROJECT
 THE STUDY ON COMPREHENSIVE RIVER WATER
 MANAGEMENT PLAN IN JABOTABEK

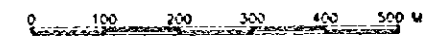
Drawing Title: **TOPOGRAPHIC MAP**

Drawn by	Checked by	Approved by	Date
Sumartono	Sumartono	L. Kusnanto	April 14 1994
Signature	Signature	Signature	Signature
Date	Date	Date	Date
7-2-94	1-7-94	1-2-94	Feb. 1994

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
PE. ATLAS DELTASATYA
 Sheet No. 208-434
 20



SCALE 1 : 5 000



LEGEND

- △ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot Height
- ~ River
- ▭ Concrete Building (more than 4m floor)
- ▭ House
- ⊕ Mosque
- ⊕ Church
- ⊕ Hospital
- ⊕ School
- ⊕ Government Office
- ~ Pond
- Path
- ≡ Bridge
- ⋯ Railway
- ⊕ Station
- ⊕ Electric Power Line
- ▭ Cutting and Embankment
- ▭ Swamp
- ⊕ Mossy grass
- ⊕ Chinese cemetery
- ⊕ Chinese graves
- ⊕ Paddy field
- Boundary of Vegetation
- ∇ Field
- Forest
- W Cross
- Water hole
- Pond, lake
- Sand
- ~ Land Slide

	1208-434					1208-444				
1207-434	18	19	20	21	22	16	17	18	19	
1207-434	23	24	25	26	27	21	22	23	24	
1207-434	3	4	5	6	7	1	2	3	4	
1207-434	8	9	10	11	12	6	7	8	9	
1207-434	13	14	15	16	17	10	11	12	13	14
1207-434	18	19	20	21	22	14	15	16	17	18
1207-434	23	24	25	26	27	18	19	20	21	22
	1208-432					1208-442				
1207-432	1	2	3	4	5	21	22	23	24	25
1207-432	6	7	8	9	10	26	27	28	29	30
1207-432	11	12	13	14	15	31	32	33	34	35
1207-432	16	17	18	19	20	36	37	38	39	40
1207-432	21	22	23	24	25	41	42	43	44	45

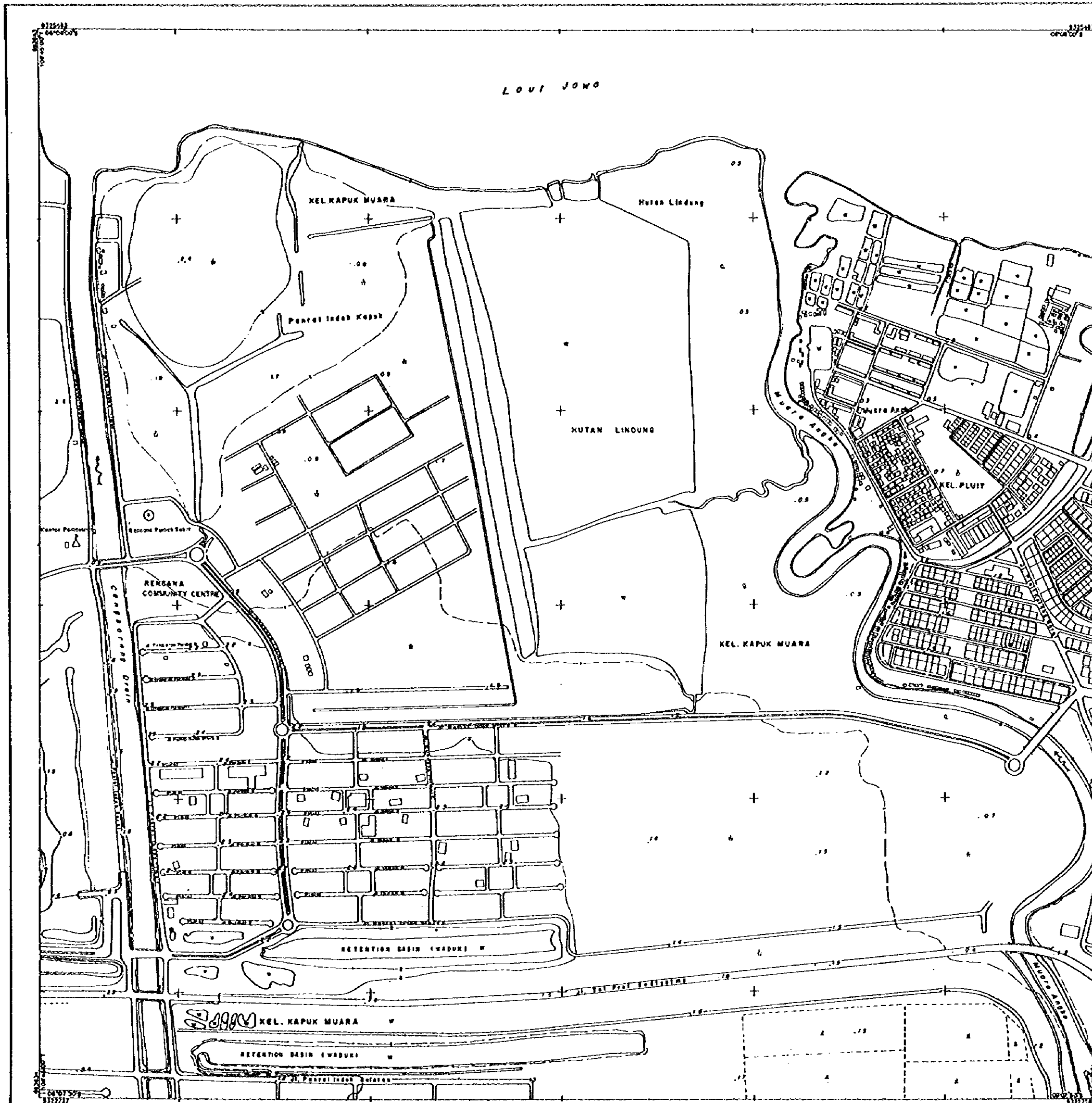
X, Y : Basal UTM Zone 48
M : Mean sea level (TTG)

Index contour : 10 meter
Main contour : 2 meter
Supplemental contour : 1 meter
Aerial photography : 1 : 20 000
May 1994

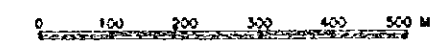
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIBUNG CYSADANE RIVER BASIN DEVELOPMENT PROJECT
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Drawing Title : **TOPOGRAPHIC MAP**

Created by	Checked by	Approved by	Field Survey '88
Signature	Signature	Signature	April '93
Date	Date	Date	Field Survey '88
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			Sheet No. 1208-434



SCALE 1 : 5000



LEGEND

- △ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot Height
- ~ River
- ▭ Concrete Building (more than 4m floor)
- ▭ House
- ▭ Mosque
- ▭ Church
- ⊙ Hospital
- ▭ School
- ▭ Government Office
- Road
- - - Path
- ≡ Bridge
- ≡≡≡ Railway
- ⊙ Station
- +— Electric Power Line
- ▭ Cutting and Embankment
- ▭ Swamp
- ~ Moisture grass
- ▭ Curation cemetery
- ▭ Chinese grass
- ▭ Paddy field
- ▭ Boundary of Vegetation
- ▭ Field
- ▭ Forest
- ▭ Cross
- Water hole
- Pond, lake
- ▭ Sand
- ▭ Land Slide

	1200-424				1200-444			
1200-424	19	20	21	22	23	24	25	26
1200-432	27	28	29	30	31	32	33	34
1200-440	35	36	37	38	39	40	41	42
1200-448	43	44	45	46	47	48	49	50
1200-456	51	52	53	54	55	56	57	58
1200-464	59	60	61	62	63	64	65	66
1200-472	67	68	69	70	71	72	73	74
1200-480	75	76	77	78	79	80	81	82
1200-488	83	84	85	86	87	88	89	90
1200-496	91	92	93	94	95	96	97	98
1200-504	99	100	101	102	103	104	105	106
1200-512	107	108	109	110	111	112	113	114
1200-520	115	116	117	118	119	120	121	122
1200-528	123	124	125	126	127	128	129	130
1200-536	131	132	133	134	135	136	137	138
1200-544	139	140	141	142	143	144	145	146
1200-552	147	148	149	150	151	152	153	154
1200-560	155	156	157	158	159	160	161	162
1200-568	163	164	165	166	167	168	169	170
1200-576	171	172	173	174	175	176	177	178
1200-584	179	180	181	182	183	184	185	186
1200-592	187	188	189	190	191	192	193	194
1200-600	195	196	197	198	199	200	201	202

X, Y : Based UTM Zone 48
 H : Mean sea level (TTG)
 Index contour : 10 meter
 Main contour : 2 meter
 Supplemental contour : 1 meter
 Aerial photography : 1 : 20 000
 May 1994

MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILUNG CIGADANE RIVER BASIN DEVELOPMENT PROJECT
 THE STUDY ON COMPREHENSIVE RIVER WATER
 MANAGEMENT PLAN IN JADOTABEK

Drawing Title : **TOPOGRAPHIC MAP**

Name	Checked by	Approved by	Field Survey No. 00
	Signature	Signature	Area 11 95 10
Date	1 - 2 - 96	1 - 2 - 96	Plan Drawing No. 01

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 PT. AIRAS DELTASATVA