

Reference Point :
 The Elevation is referred to ITG 177 (ITG 177 = 43.156 meters)
 The correlations between other system are :
 ITG 177 ± 0.0 = NAD - 0.875 meters ± PP ± meters

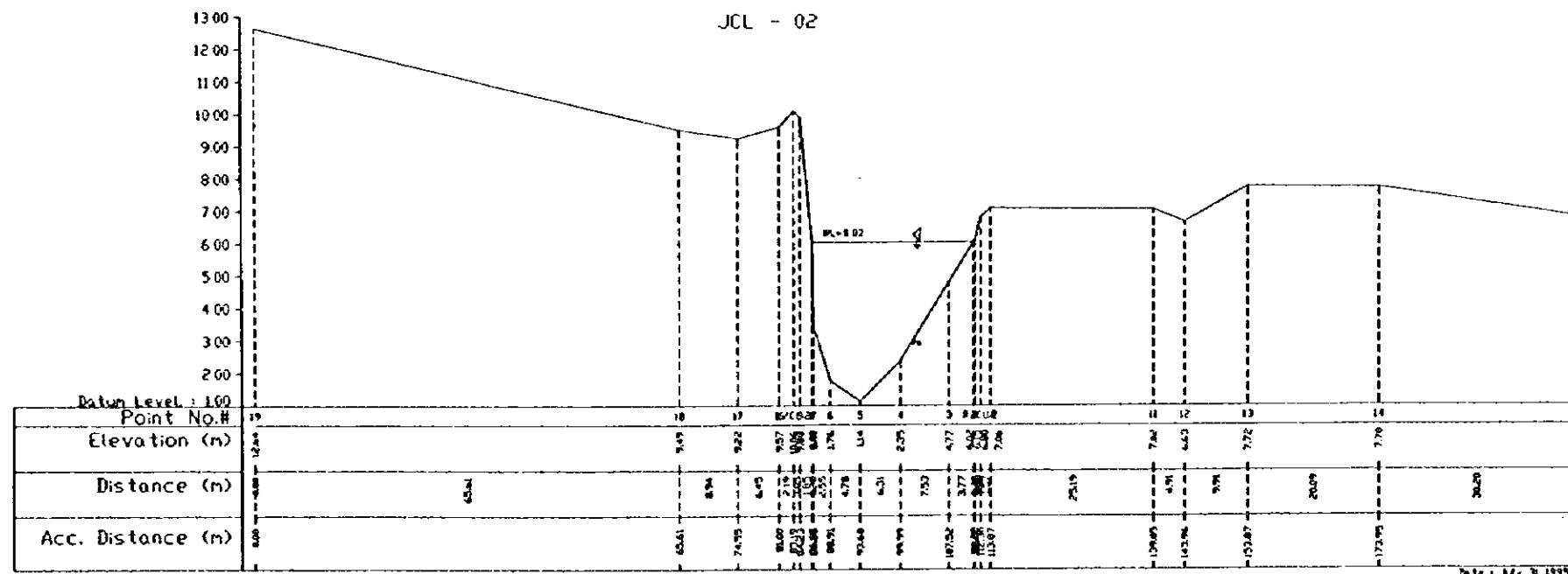
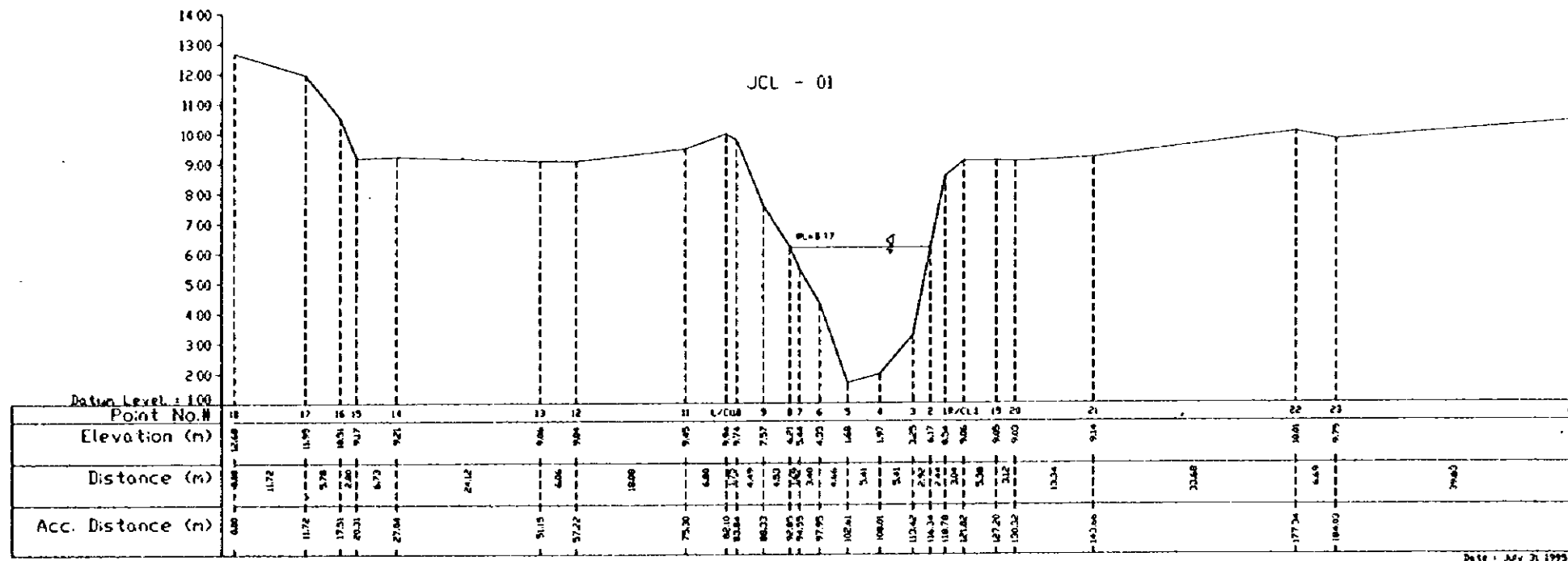
(IN METERS)
 1 : 1000
 0 100 200 300 400 500
 No. = 1 20000

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 : CILIWUNG RIVER	Drawing Title : LONGITUDINAL PROFILE
Checked by : BAMBO SOEGARTO	Approved by : K. FORNIE
Scale : Horizontal 1 : 200000 Vertical 1 : 1000	Sheet No : 1 of 1

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WHATMAN 6 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 - 0.875 meters = PP ± ... meter

(IN METERS)
 0 1 2 3 4 5 6 7 8 9 10
 1:500
 1:100
 1m = 1.000

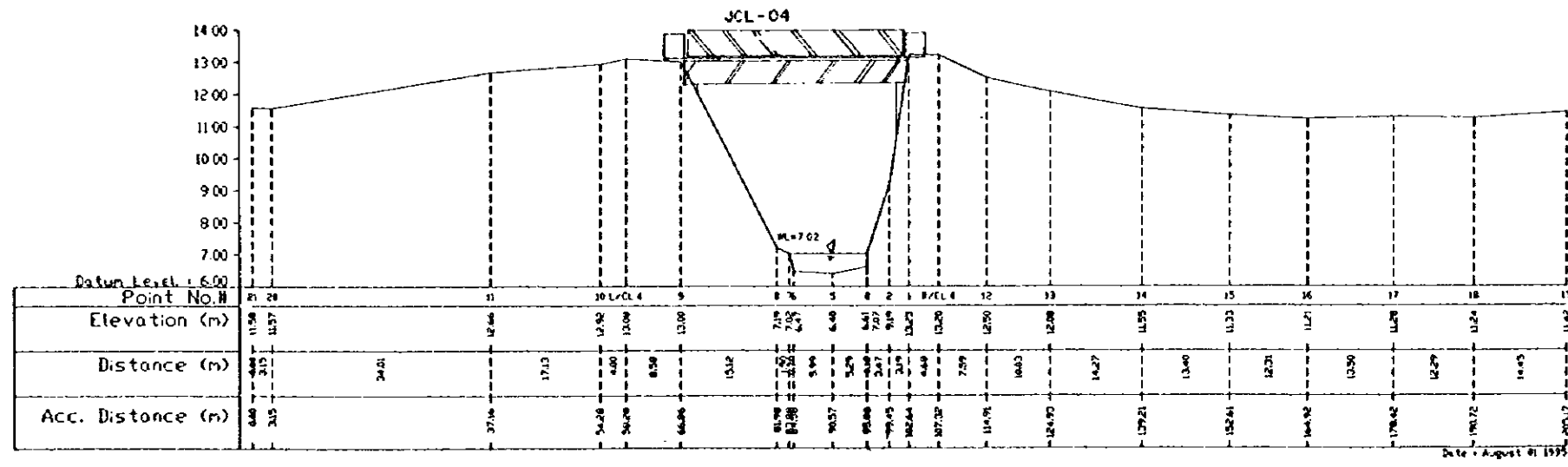
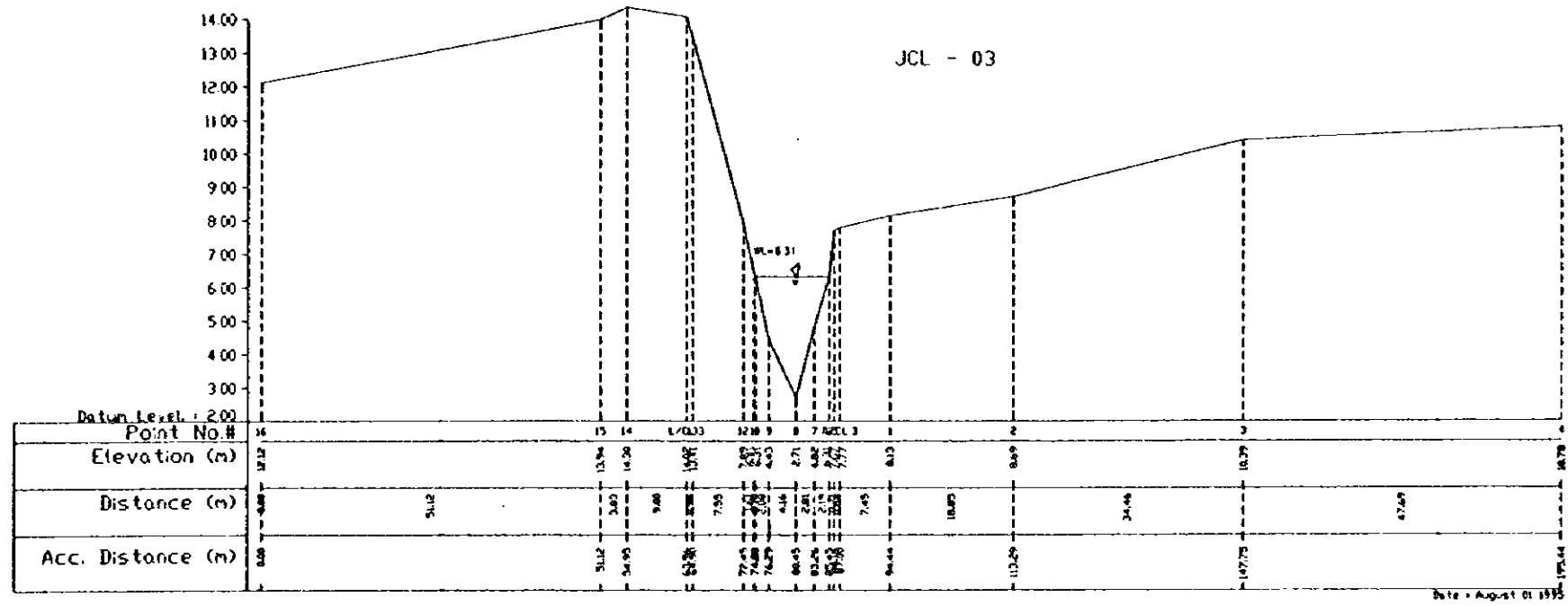
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILIWUNG RIVER		Drawing Title : CROSS SECTION	
Created by Name : BRONHO Signature : <i>[Signature]</i> Date : 11-11-95	Checked by Name : SCORPIO Signature : <i>[Signature]</i> Date : 11-11-95	Approved by Name : T. HAN Signature : <i>[Signature]</i> Date : 11-11-95	Approved by Name : R. TOPAN Signature : <i>[Signature]</i> Date : 11-11-95
Scale		Sheet No.	
Horizontal 1 : 500		1 of 38	
Vertical 1 : 100			

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 = KWP - 0.975 meters ± PP ± meter

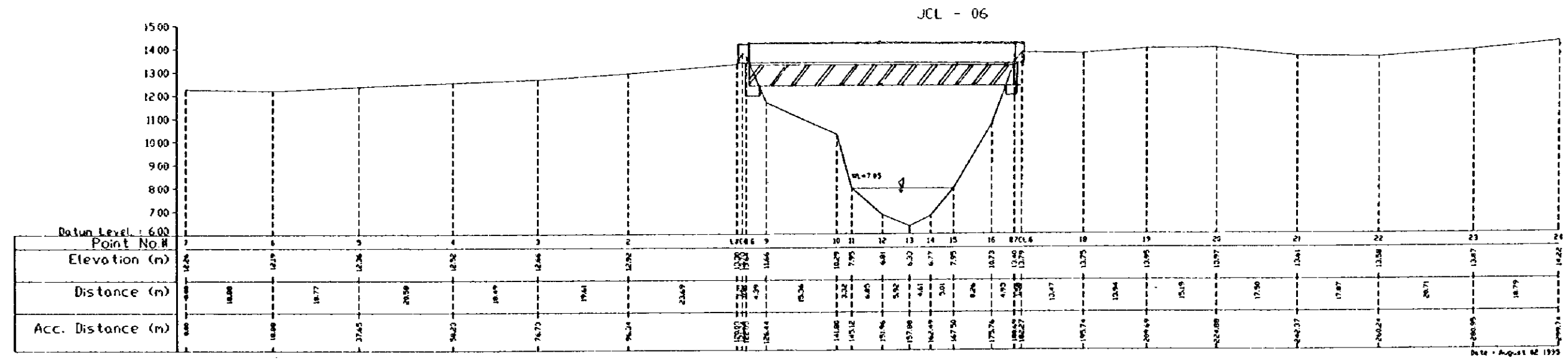
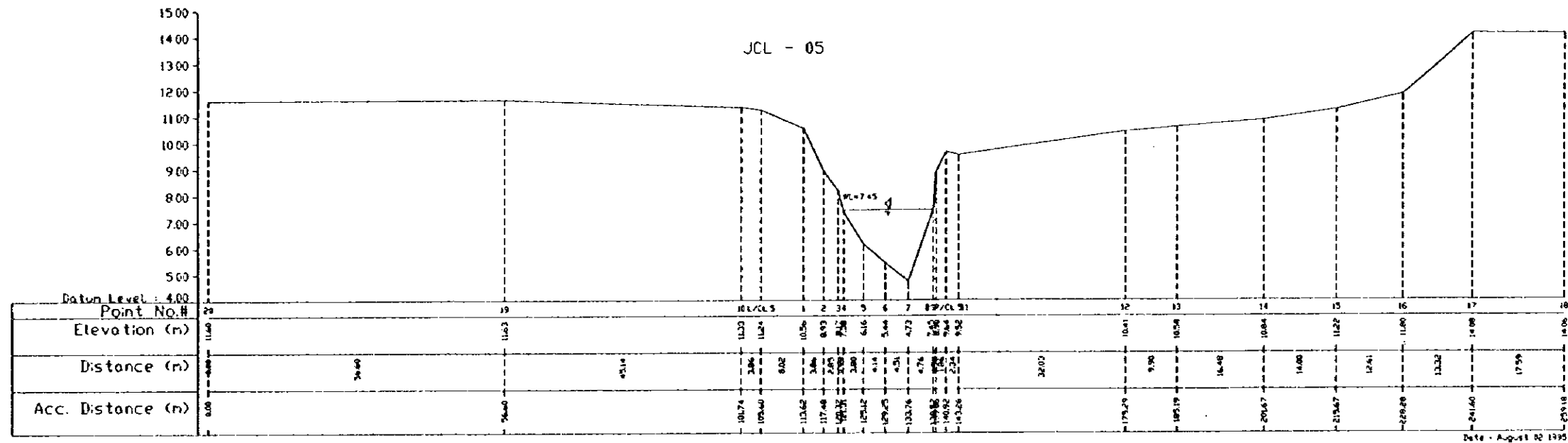
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Created by	Approved by	Scale	Sheet No.
None	None	Horizontal 1 : 500	02 of 38
Signature	Signature	Vertical 1 : 100	
Date	Date		

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



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

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

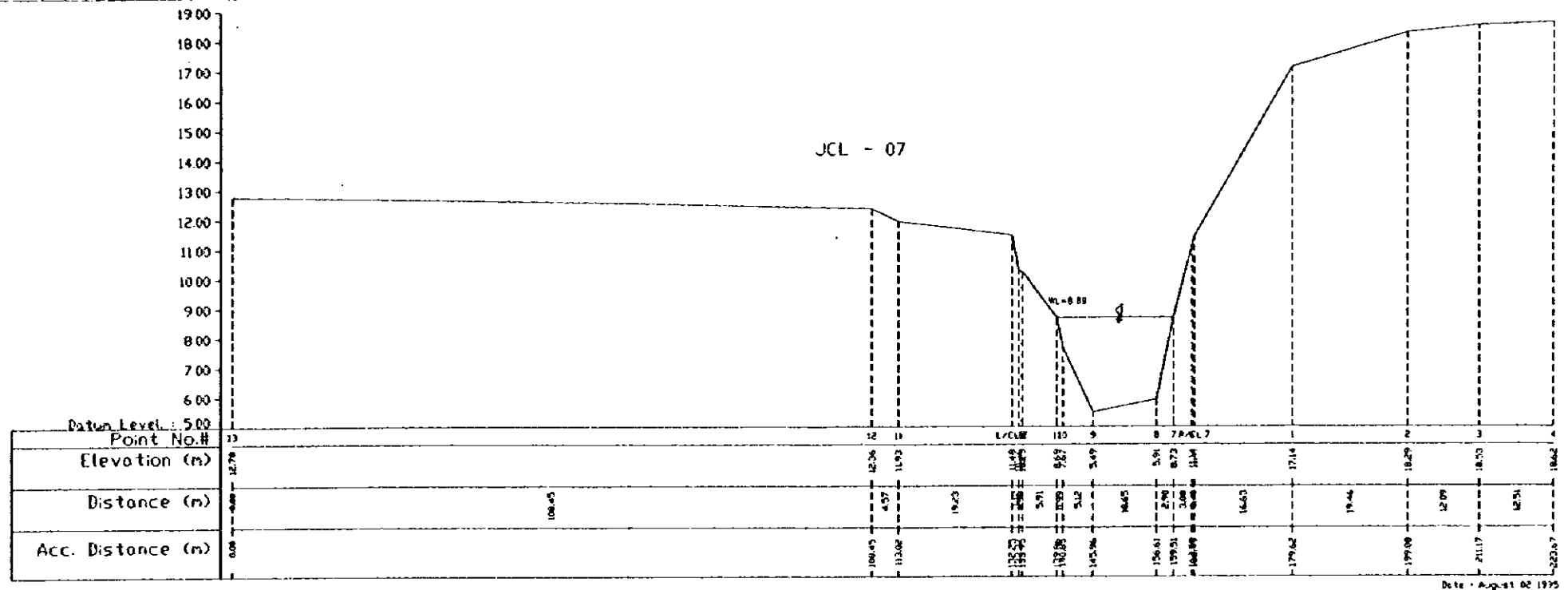
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JASOTABEK

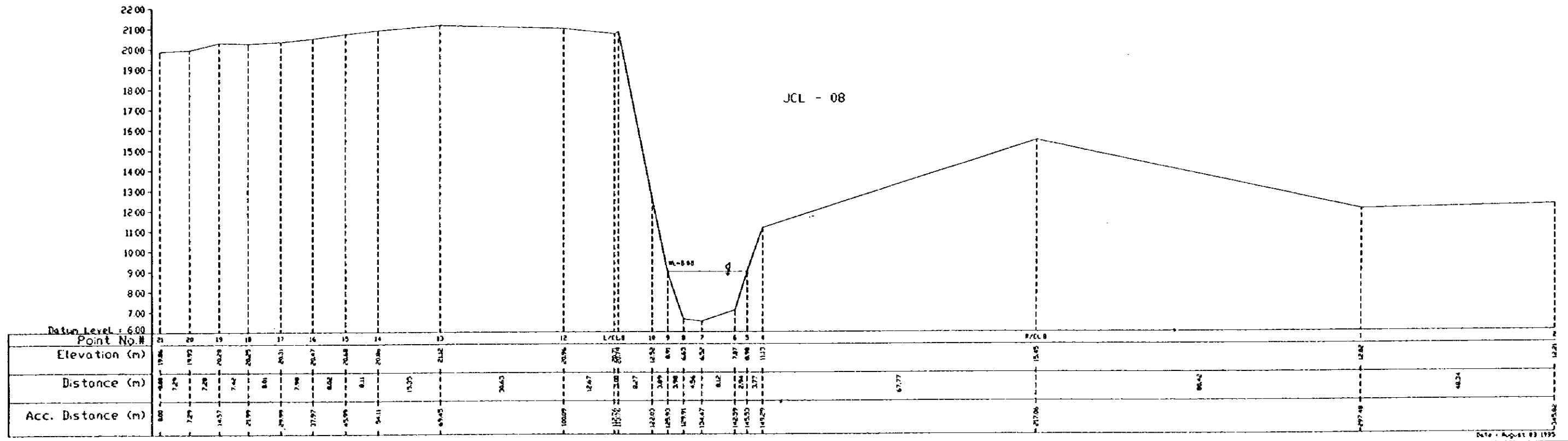
Name of River : **CILIWUNG RIVER** Drawing Title : **CROSS SECTION**

Checked By	Approved By	Scale	Sheet No
BAWONO SOEGARTO	T. SUI K. KURNIAWATI	Horizontal 1 : 500 Vertical 1 : 100	03 of 33

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



Date : August 02 1995



Date : August 03 1995

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

(IN METERS)
 0 1 2 3 4 5 6 7 8 9 10
 No = 1 500

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

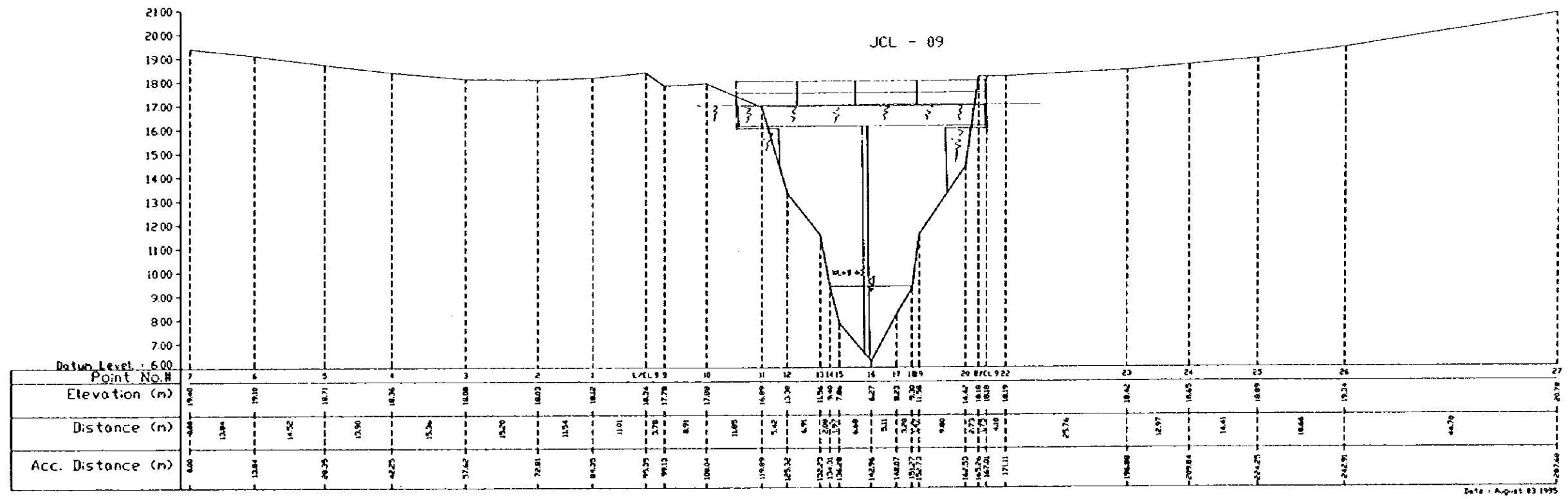
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked By	Approved By	Scale	Sheet No
BRUNO SOEDARNO	T. MAN K. TORNAME	Horizontal 1 : 500 Vertical 1 : 100	04 of 38

Date : 20.11.95 20.11.95

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



Date : August 03 1995

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

(IN METERS)
 1 : 500

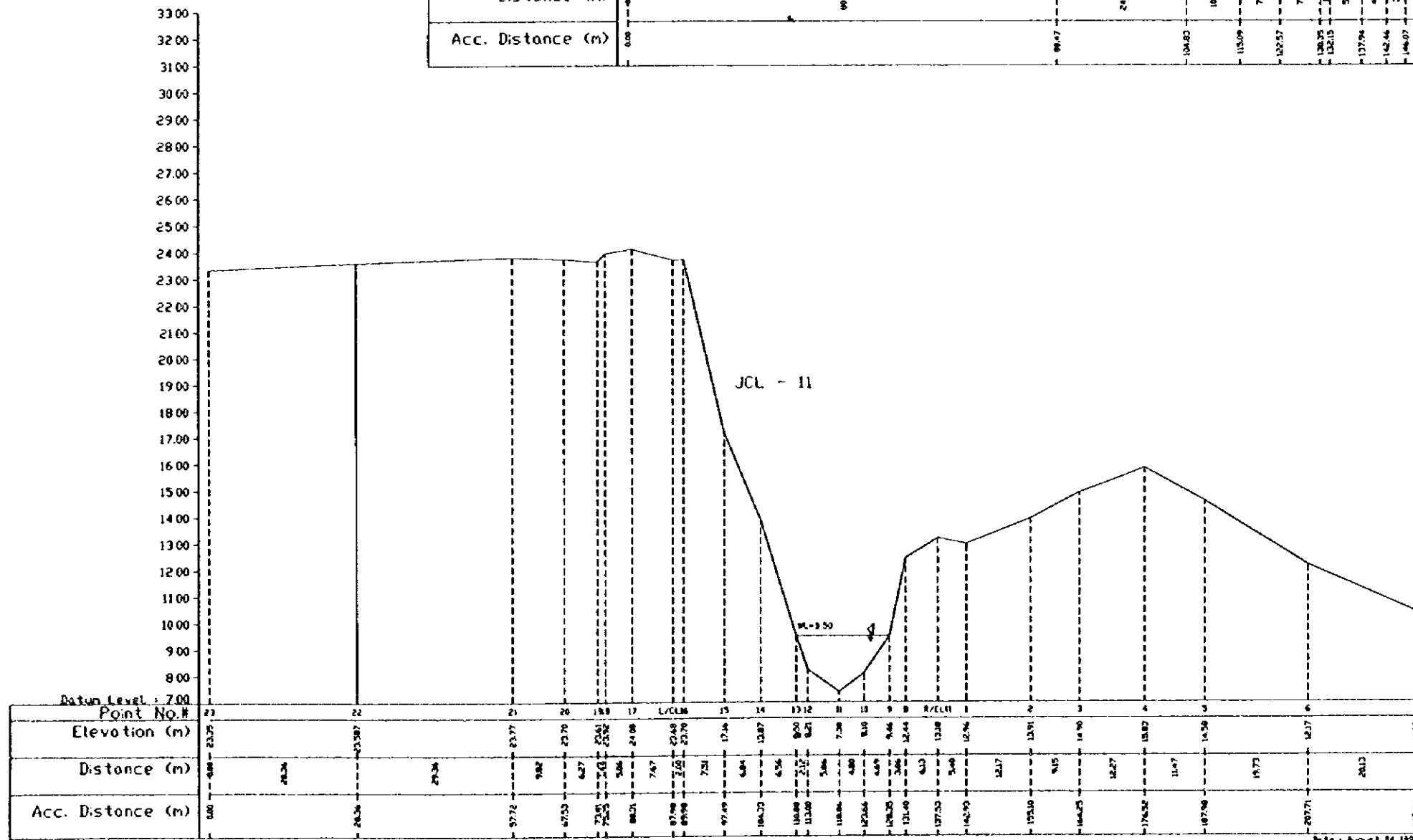
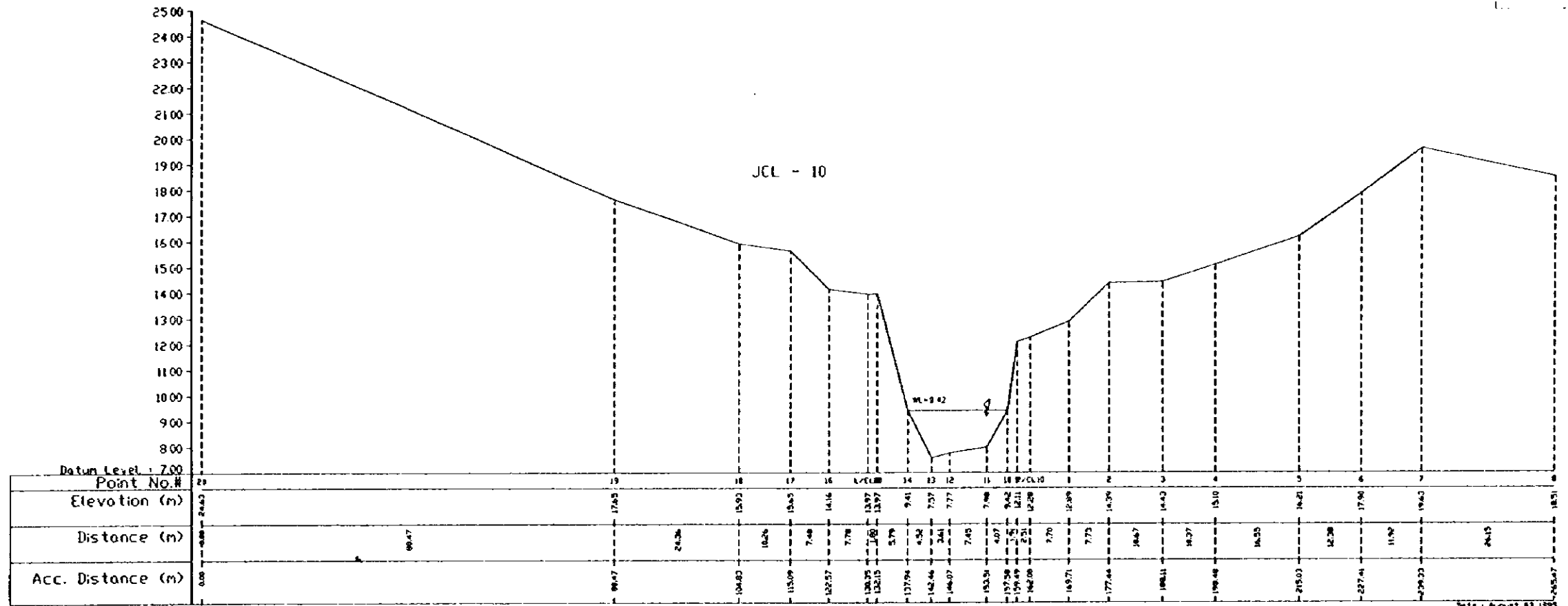
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
Name : B. PRONO	Name : K. TOEWAJE	Horizontal 1 : 500	05 of 34
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Vertical 1 : 100	
Date : 12-11-95	Date : 11-11-95		

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 = NKP - 0.975 meters = PP ± meter

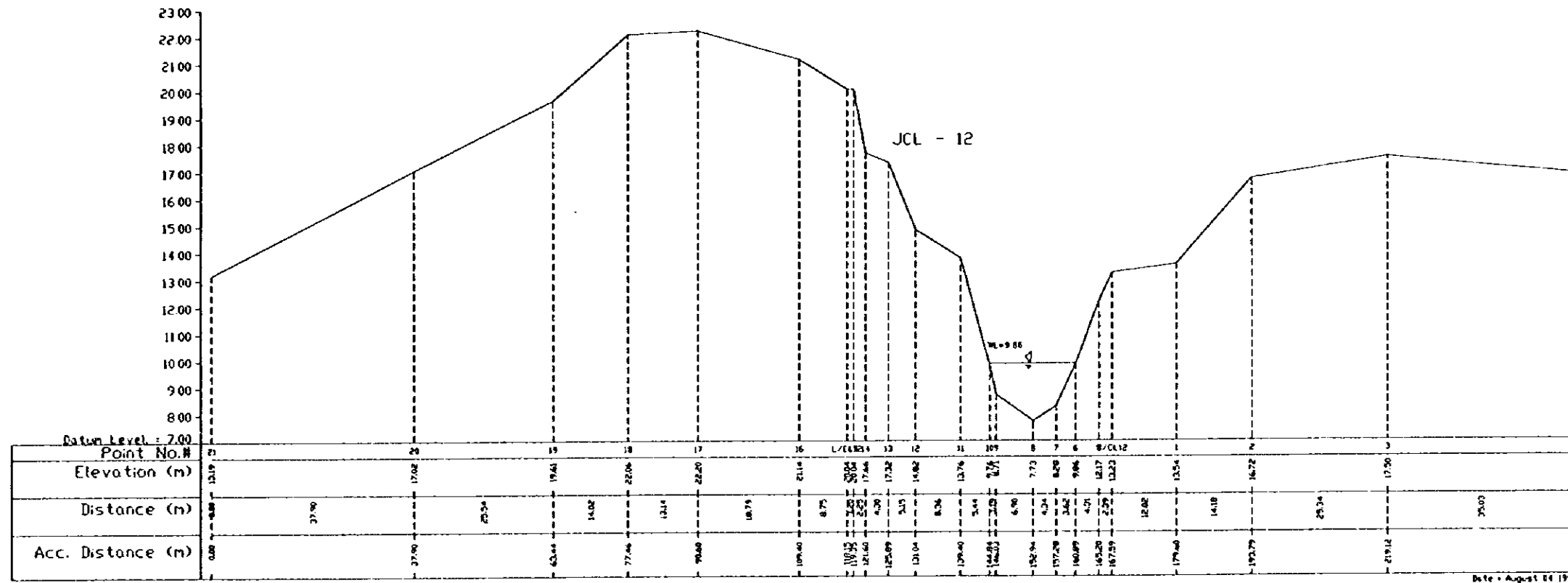
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

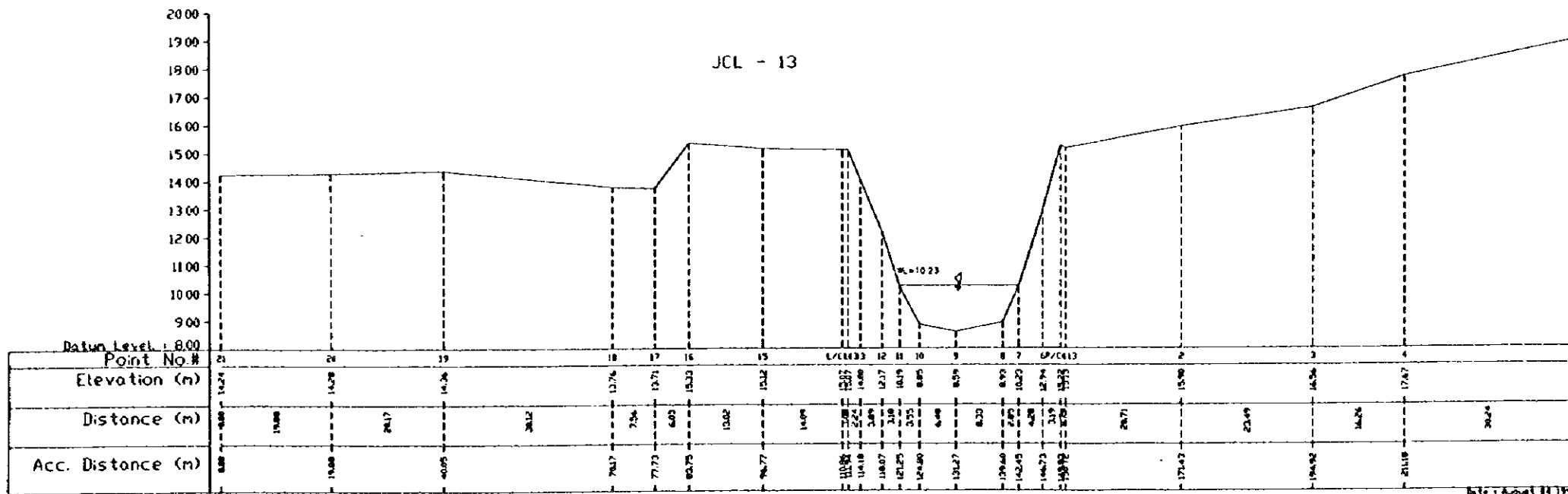
Name of River : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

Checked by : [Signature] Approved by : [Signature]
 Scale : Horizontal 1 : 500, Vertical 1 : 100
 Sheet No : 06 of 34

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 JAKARTA -- INDONESIA

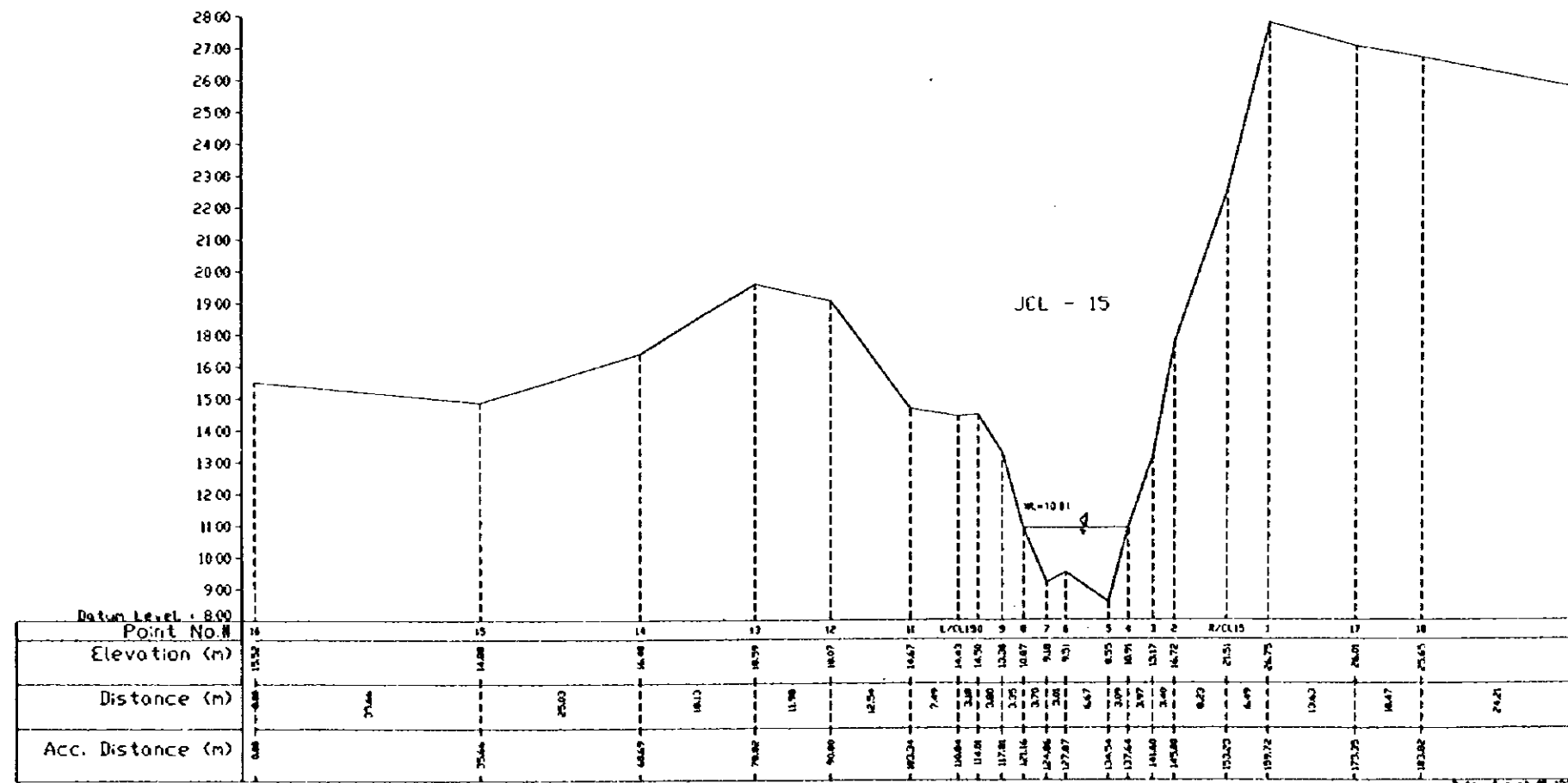
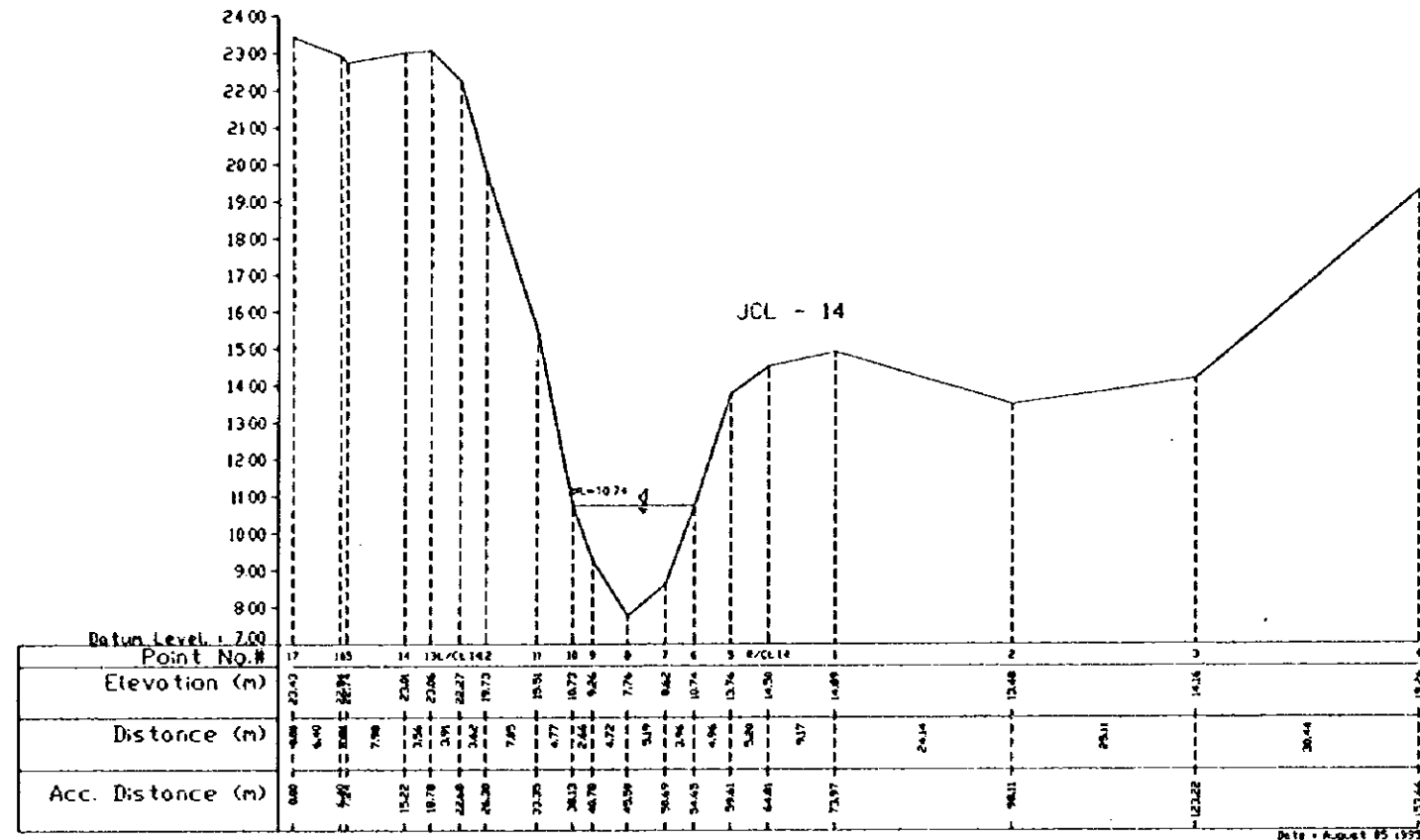


Date - August 24 1995



Date - August 24 1995

Reference Point : The Elevation is referred to ITC 177 = 40.136 meters The correlation between other system are : ITC 177 ± 0 = NWP - 0.875 meters = PP + . . . meter		 Scale : 1 : 100 (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 : CILIWUNG RIVER		Drawing Title : CROSS SECTION	
Checked by : B. SUDONO	Approved by : S. H. SUDARNO	Scale : Horizontal 1 : 500 Vertical 1 : 100	Sheet No. : 07 of 34
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WIRATMAN & Associates JAKARTA - INDONESIA	



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

(IN METERS)
 1 : 500

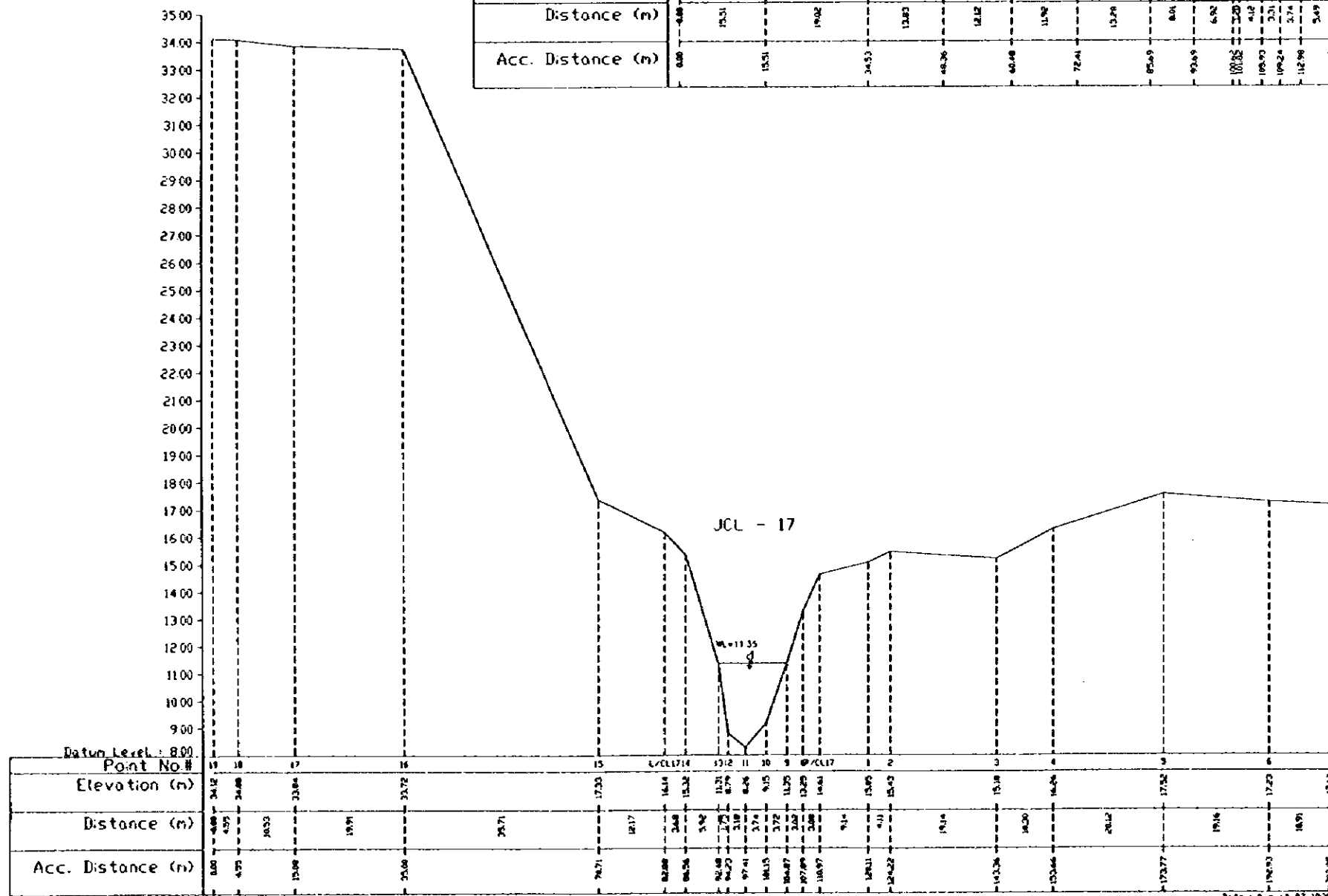
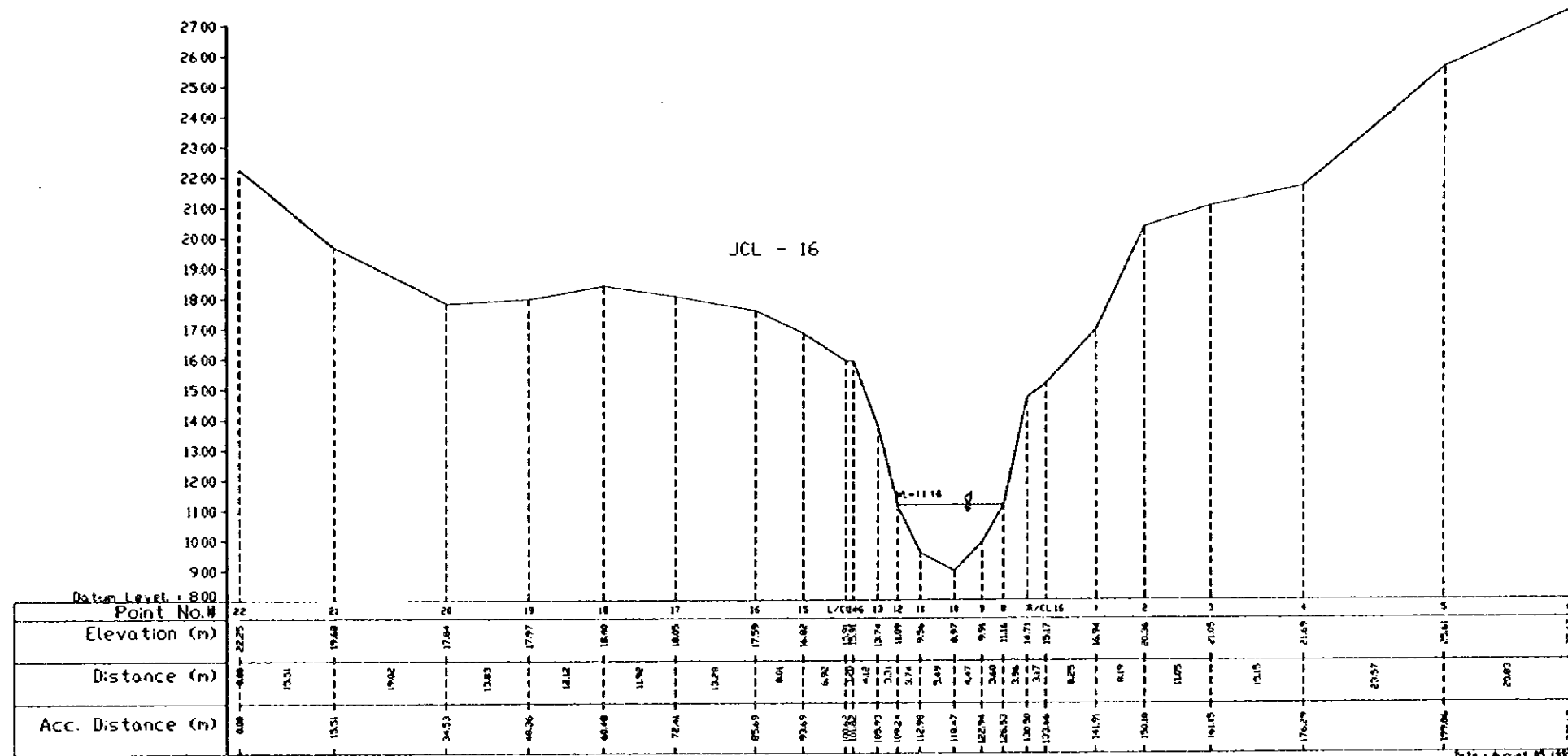
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by Name : BARNO SOEDARTO Signature : <i>[Signature]</i> Date : 10.11.95	Approved by Name : I. RANU K. FORSMAN Signature : <i>[Signature]</i> Date : 20.11.95	Scale Horizontal : 1 : 500 Vertical : 1 : 100	Sheet No. 08 of 34
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JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIJATMAN & Associates** JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to IIG 177 = 40.136 meters
 The correlation between other system are :
 IIG 177 ± 0 = MRP = 0.915 meters = PP ± ... meter

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

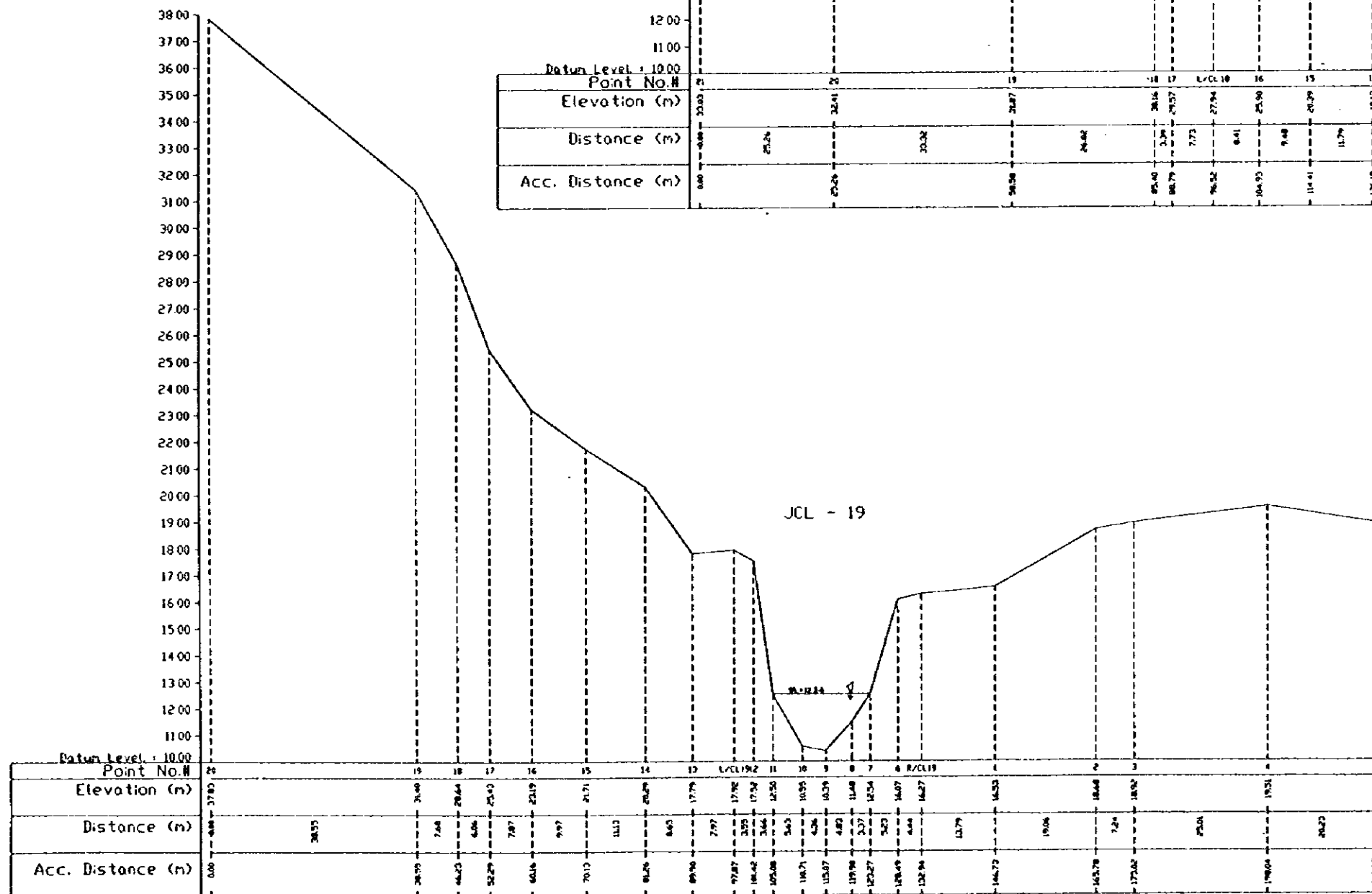
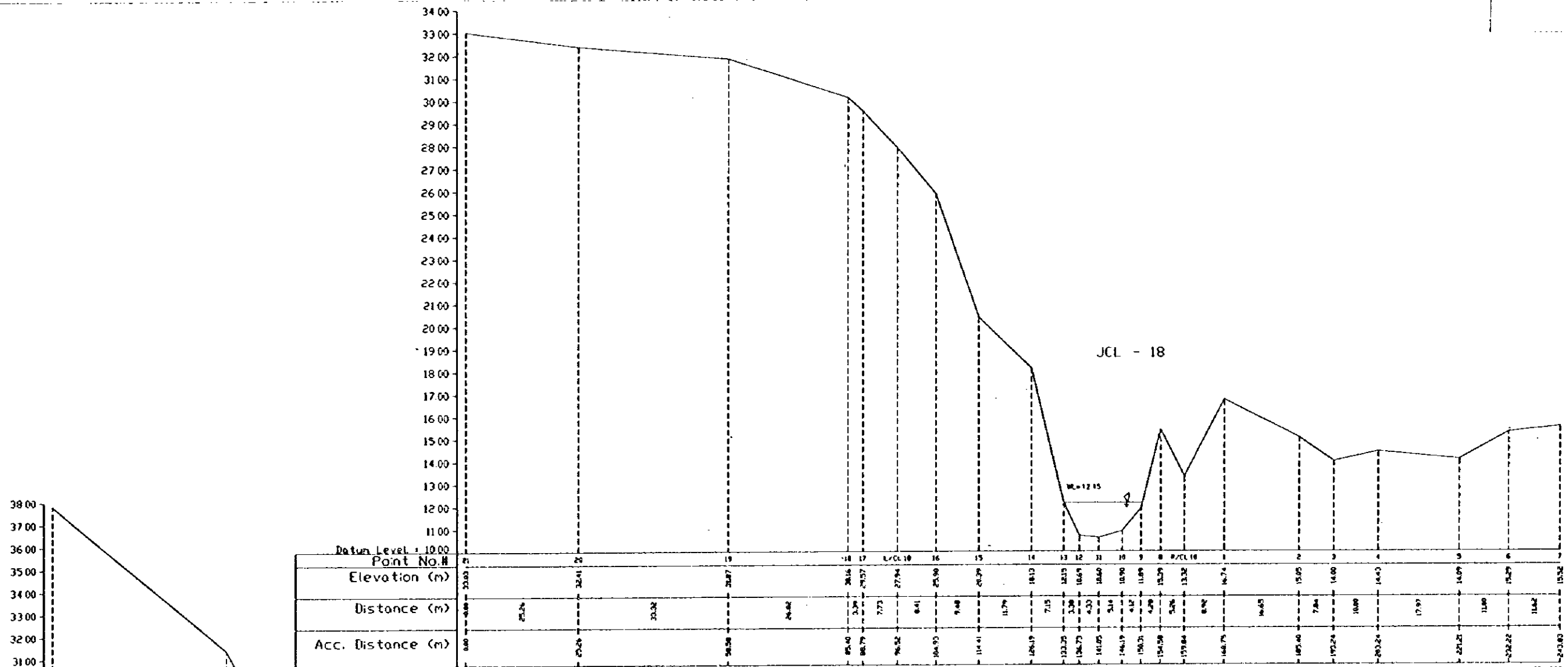
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

Checked by : BAWONO, SOEDARTO, T. ANU, K. SUPRIATNE
 Approved by : [Signature]
 Date : 23.11.92 - 11.11.92

Scale : Horizontal 1 : 500, Vertical 1 : 100
 Sheet No : 09 of 34

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 = NAD - 0.975 meters = PP ± ... meter

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

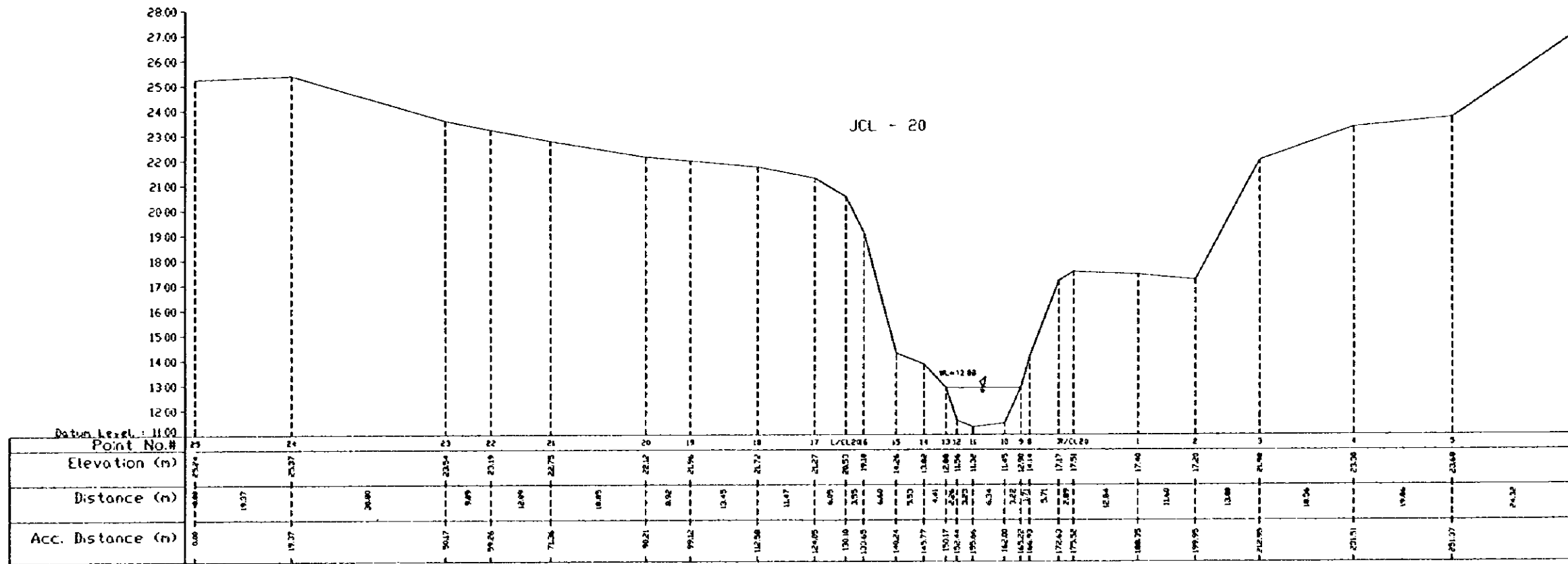
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

Checked by : [Signature]
 Approved by : [Signature]

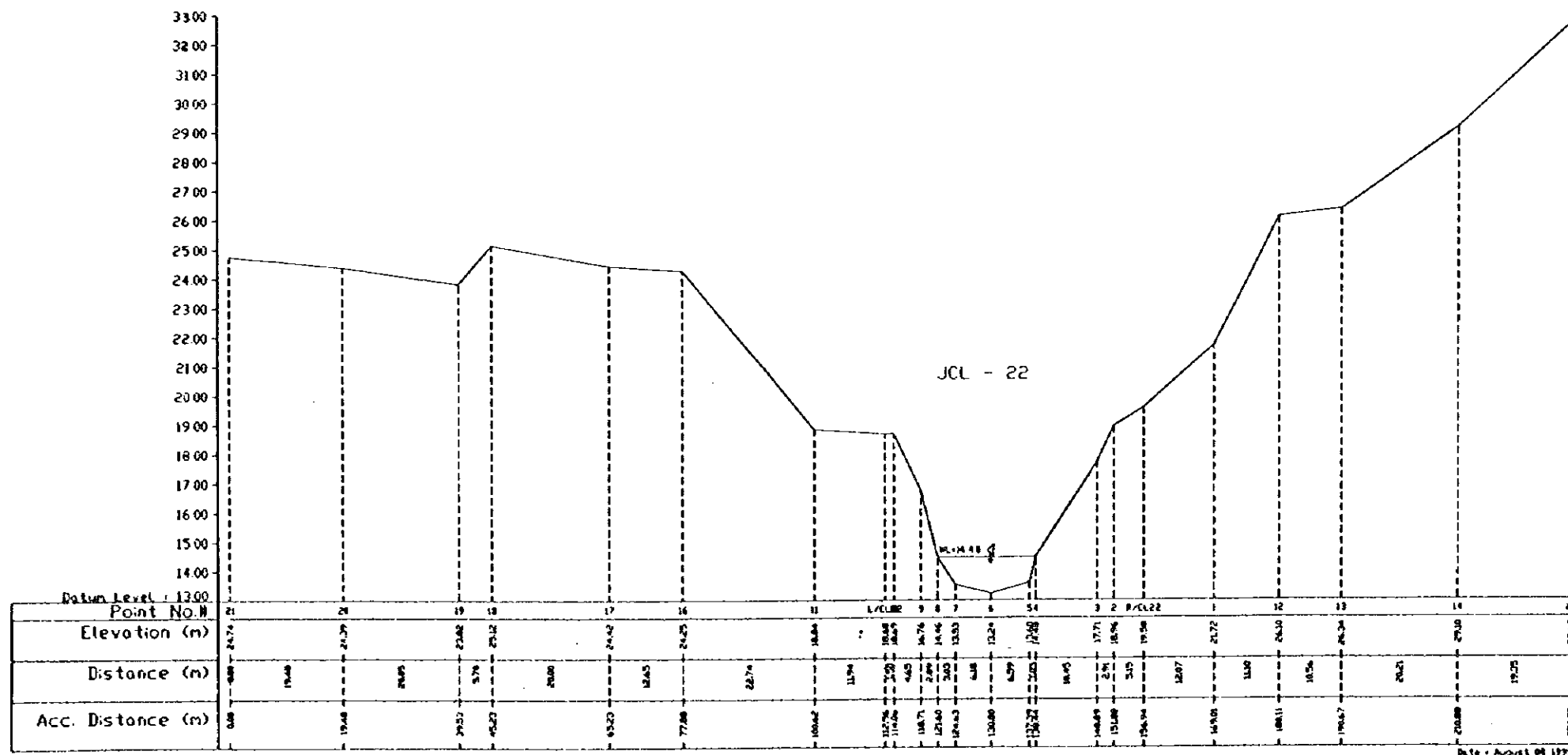
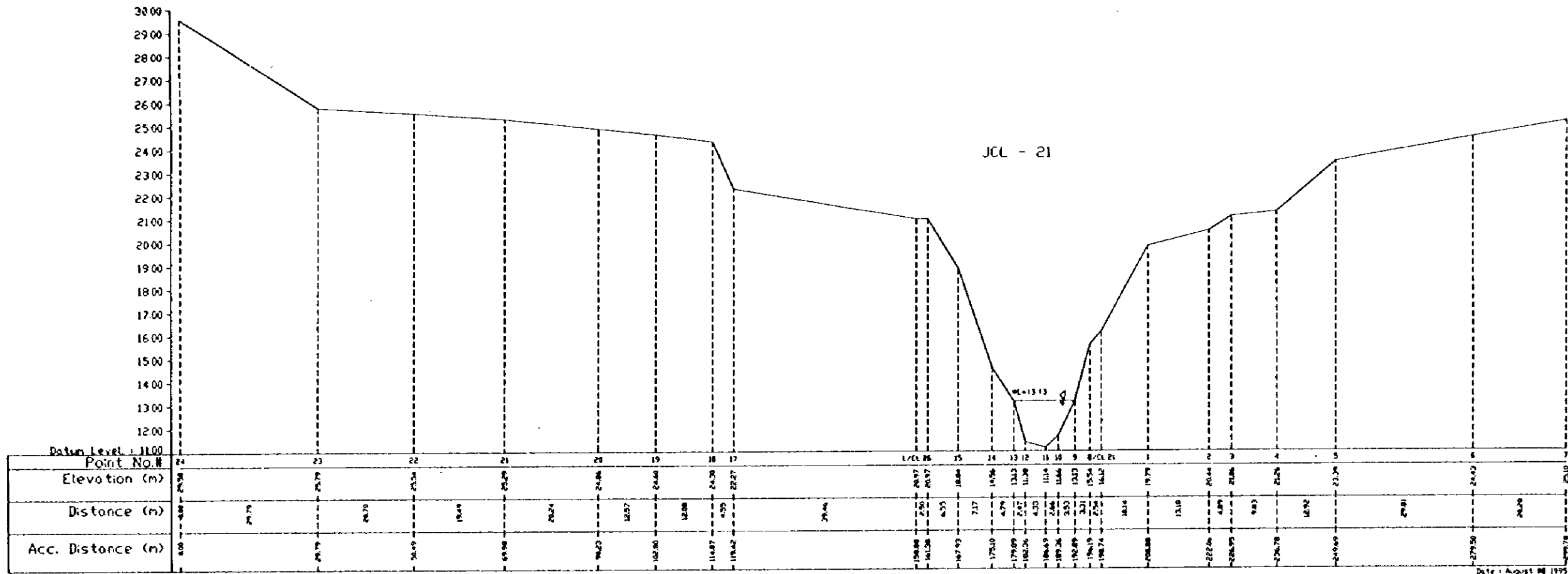
Scale : Horizontal 1 : 500, Vertical 1 : 100
 Sheet No : 10 of 34

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates JAKARTA - INDONESIA



Date : Sept 25 1975

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		
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 : CILIWUNG RIVER		Drawing Title : CROSS SECTION
Checked by BAWAND SOEDARTO Y. BAK 10.1.75	Approved by R. HORRINE 22.11.75	Scale Horizontal 1 : 500 Vertical 1 : 100
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WIRATMAN & Associates JAKARTA - INDONESIA



Reference Point:
 The Elevation is referred to FIG 177 = 40.136 meters
 The correlation between other system are:
 FIG 177 ± 0 = WSP = 0.875 meters = PP ± meter

(IN METERS)
 1:1000
 0 1 2 3 4 5 6 7 8 9 10

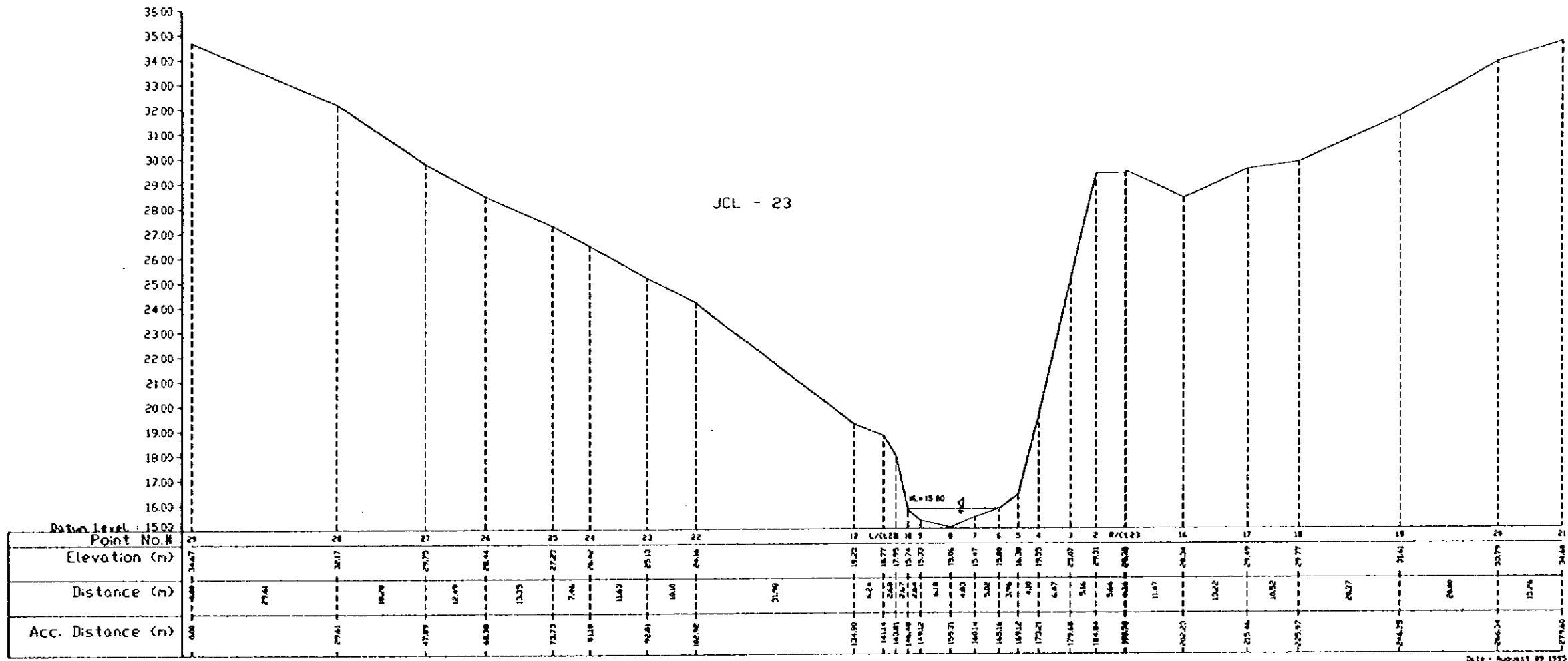
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

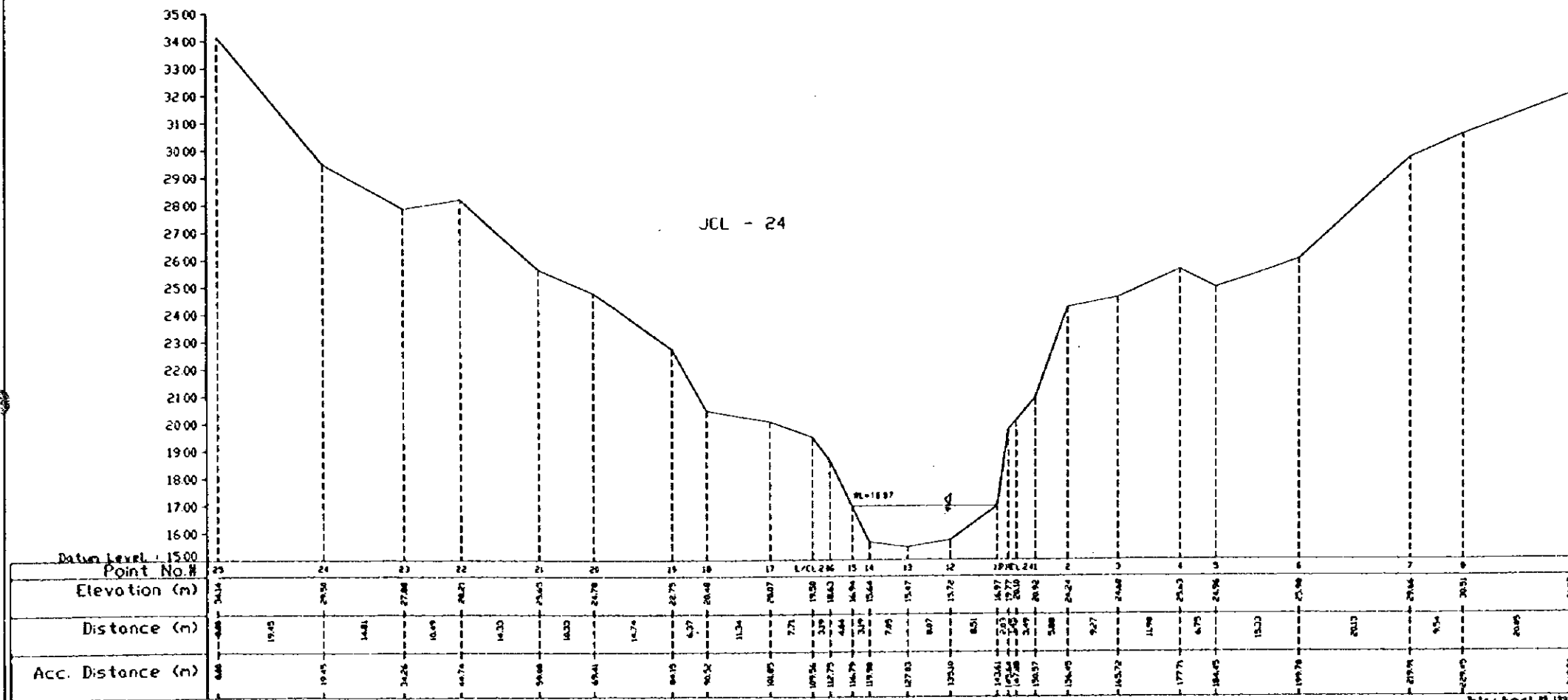
Name of River : **CILIWUNG RIVER** Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
BAROHO SOEDARNO	T. BUN R. TORANE	Horizontal 1 : 500	12 of 34
Signature	Date	Vertical 1 : 100	
	10.1.95		

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



Date - August 09 1995



Date - August 09 1995

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

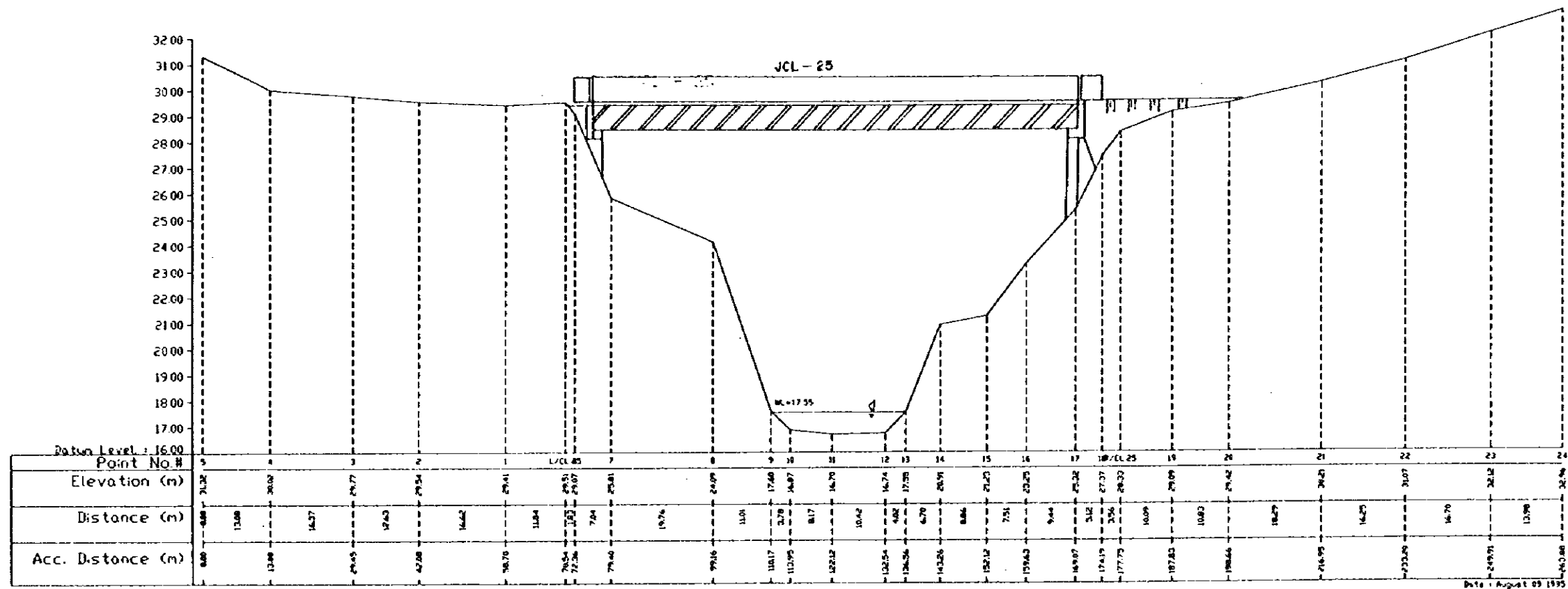
Name of River : CILIWUNG RIVER		Drawing Title : CROSS SECTION	
Checked by : S. SOEPRANO	Approved by : R. SOPANE	Scale : Horizontal 1 : 500 Vertical 1 : 100	Sheet No : 13 of 34

Name : S. SOEPRANO Date : 10.11.95

Signature : *[Signature]* Date : 11.11.95

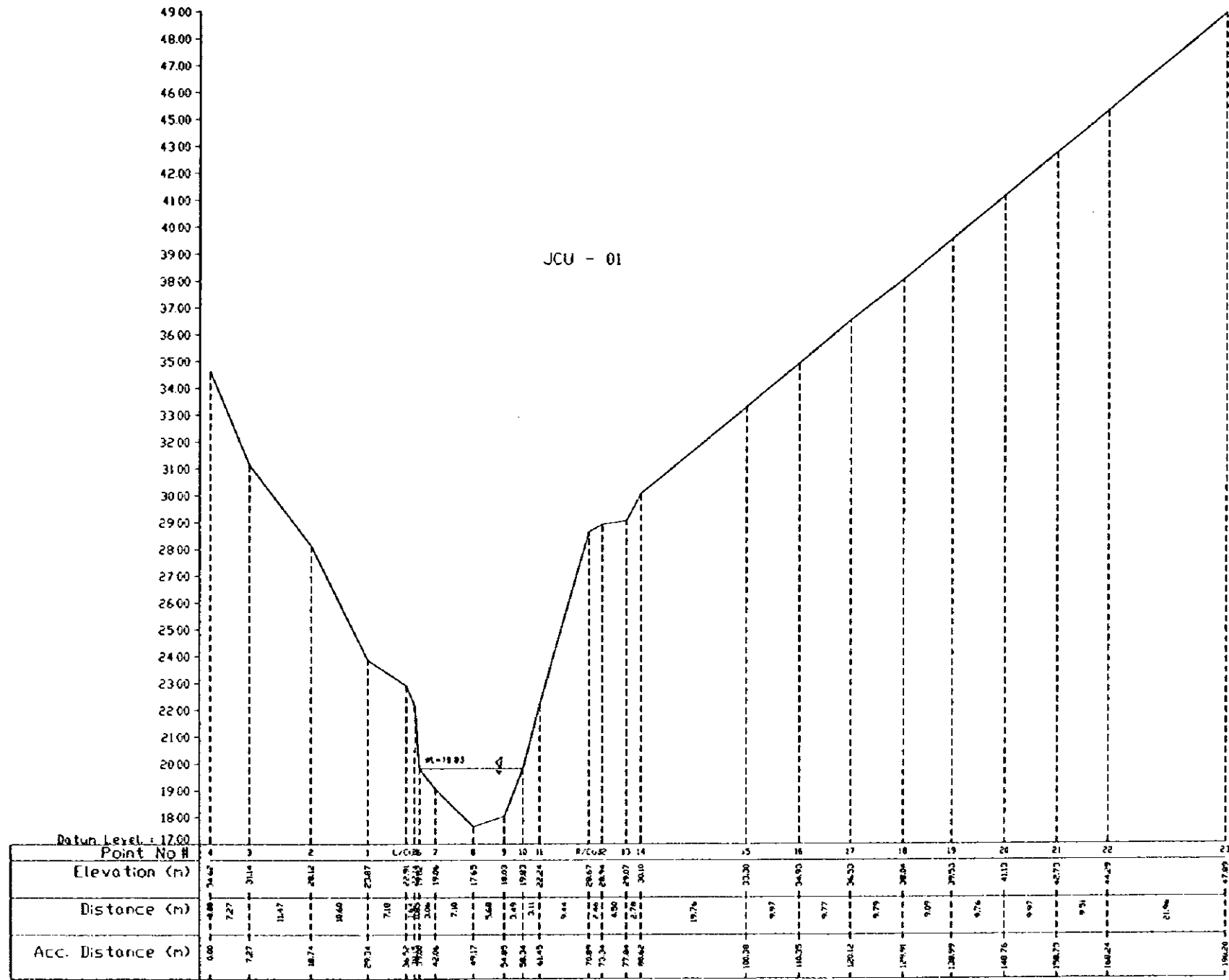
JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

WIRATMAN & Associates
JAKARTA - INDONESIA



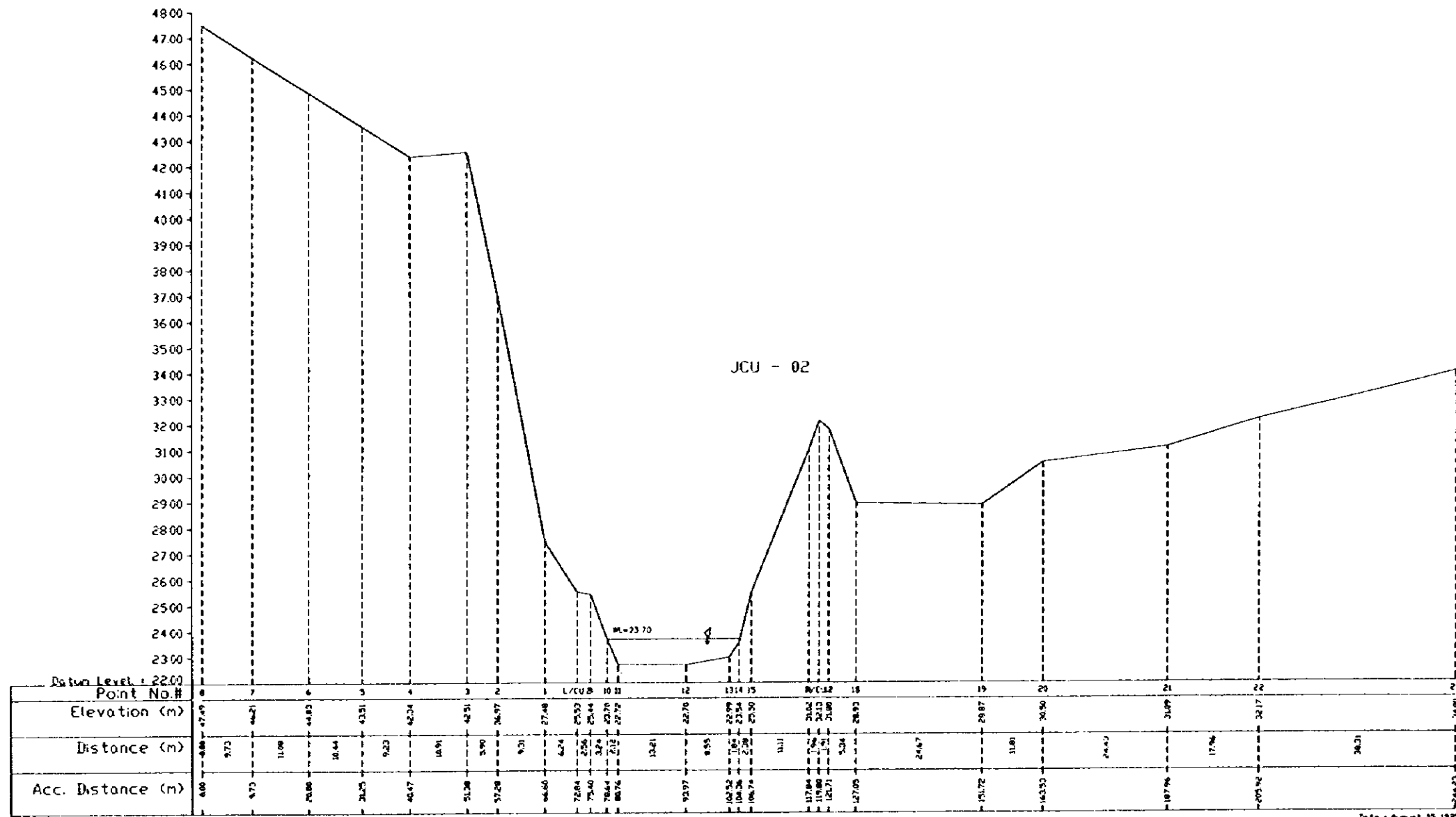
Date: August 09 1995

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) 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 : CILIWUNG RIVER		Drawing Title : CROSS SECTION
Checked by: Name : <i>[Signature]</i> Date : 10/11/95	Approved by: Name : <i>[Signature]</i> Date : 20/11/95	Scale: Horizontal 1 : 500 Vertical 1 : 100
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WIATMAN & Associates JAKARTA - INDONESIA



Date - August 27 1995

Reference Point: The Elevation is referred to TTG 177 = 40.136 meters The correlation between other system are: TTG 177 & 0 = 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 : CILIWUNG RIVER		Drawing Title : CROSS SECTION	
Checked by Name: BAWONO Signature: [Signature] Date: 10.11.95	Approved by Name: I. ANI Signature: [Signature] Date: 22.11.95	Scale Horizontal 1 : 500 Vertical 1 : 100	Sheet No 15 of 34
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WRATMAN & Associates JAKARTA - INDONESIA	



Date : August 05 1995

Reference Point :
 The Elevation is referred to TIG 177 = 40 136 meters
 The correlation between other system are :
 TIG 177 ± 0 = NWP = 0.875 meters = PP 4

(IN METERS)
 Scale : 1 : 500

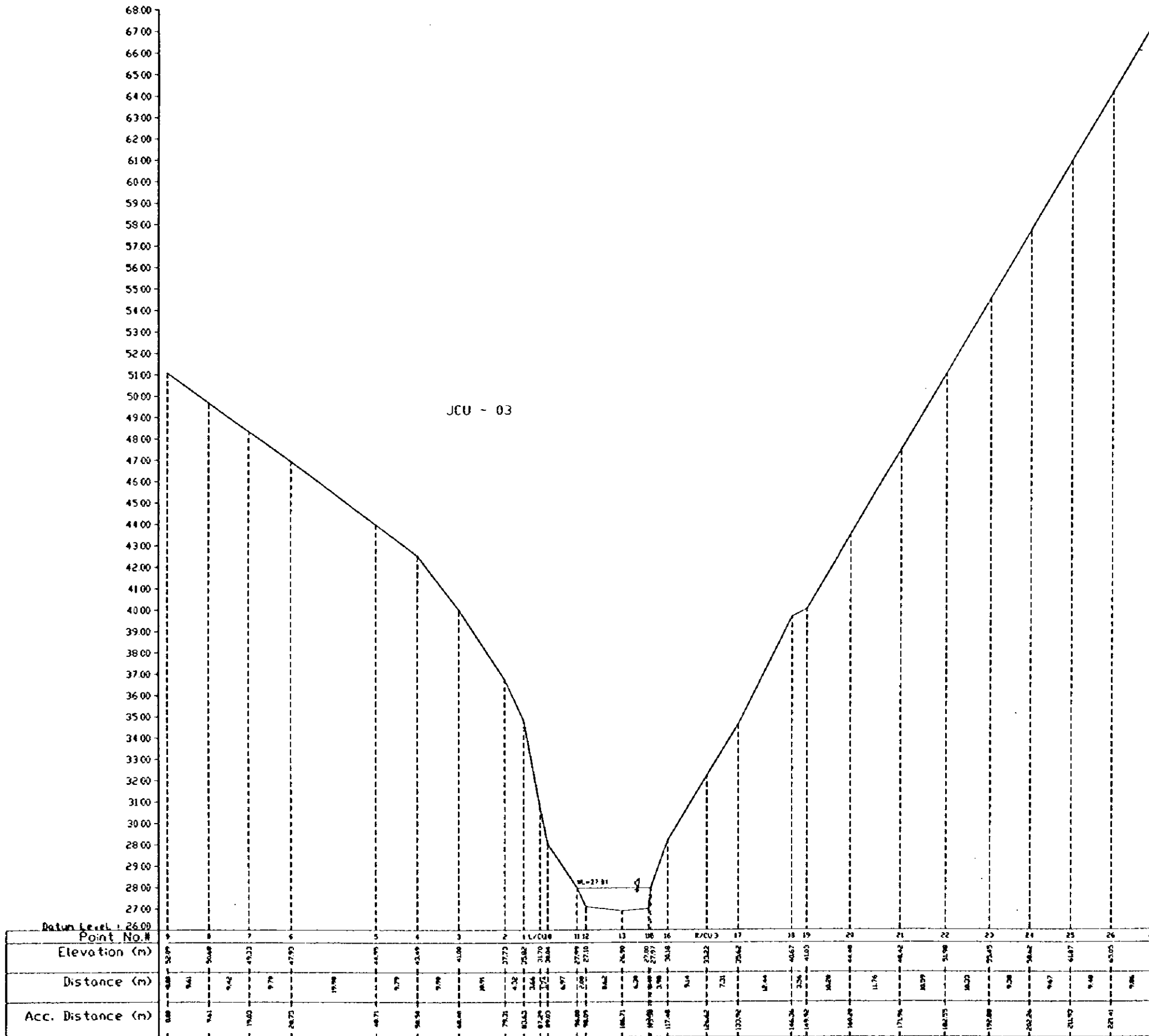
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by		Approved by		Scale	Sheet No
None	BURHO	SUDIPNO	K. SUPARNO	Horizontal 1 : 500	16 of 34
Signature	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Vertical 1 : 100	
Date	12.11.95	11.11.95	20.11.95		

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



Reference Point:
 The Elevation is referred to TIG 172 = 40.138 meters
 The correlation between other system are:
 TIG 172 ± 0 = NWP - 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

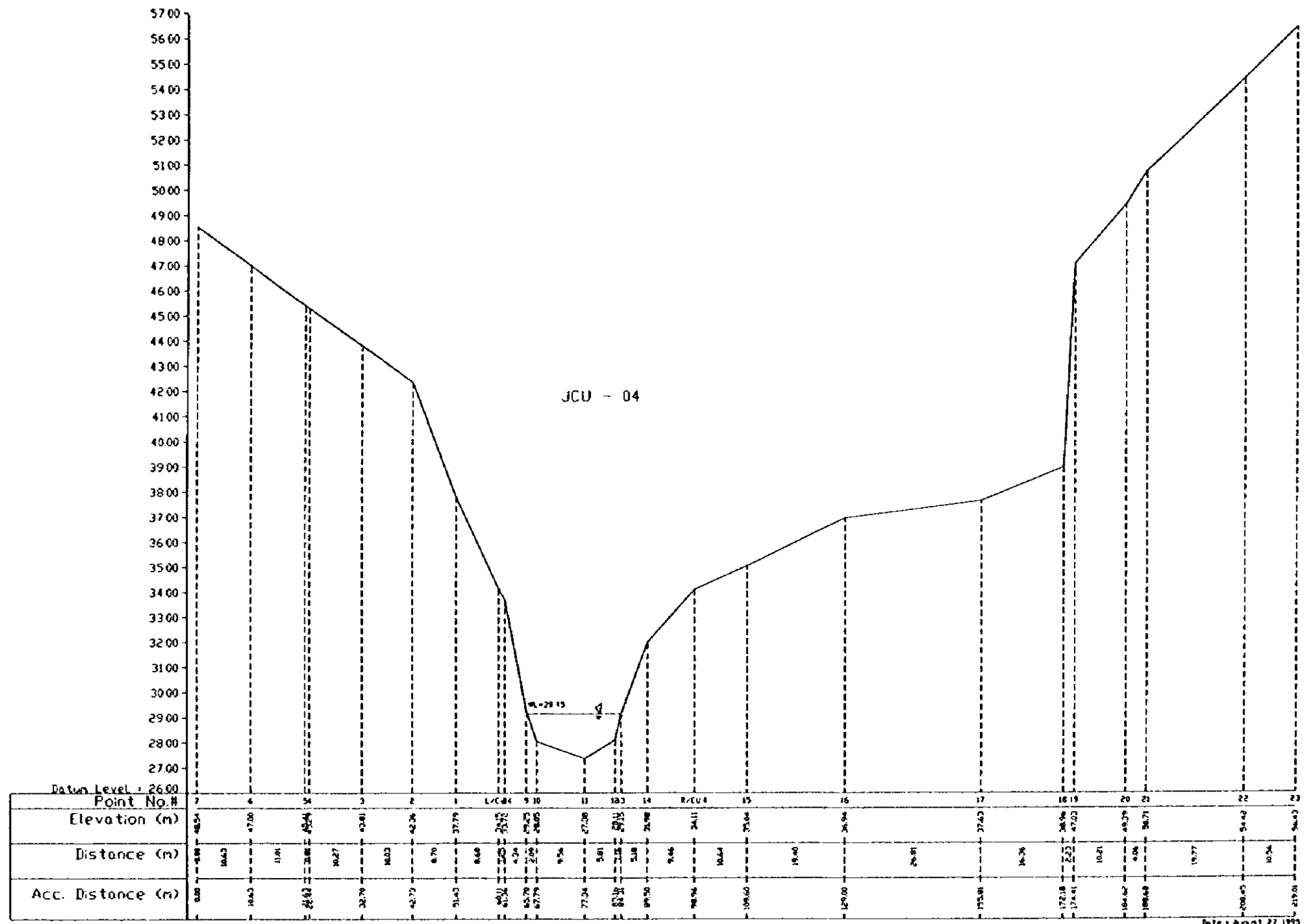
Name of River : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

Checked by	Approved by	Scale	Sheet No.
B. W. H. S. (Signature)	K. T. P. (Signature)	Horizontal 1 : 500 Vertical 1 : 100	17 of 34

Date : 12.1.95

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIJAYMAN & Associates
 JAKARTA - INDONESIA

Date : August 28 1995



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

(IN METERS)
 1 : 500

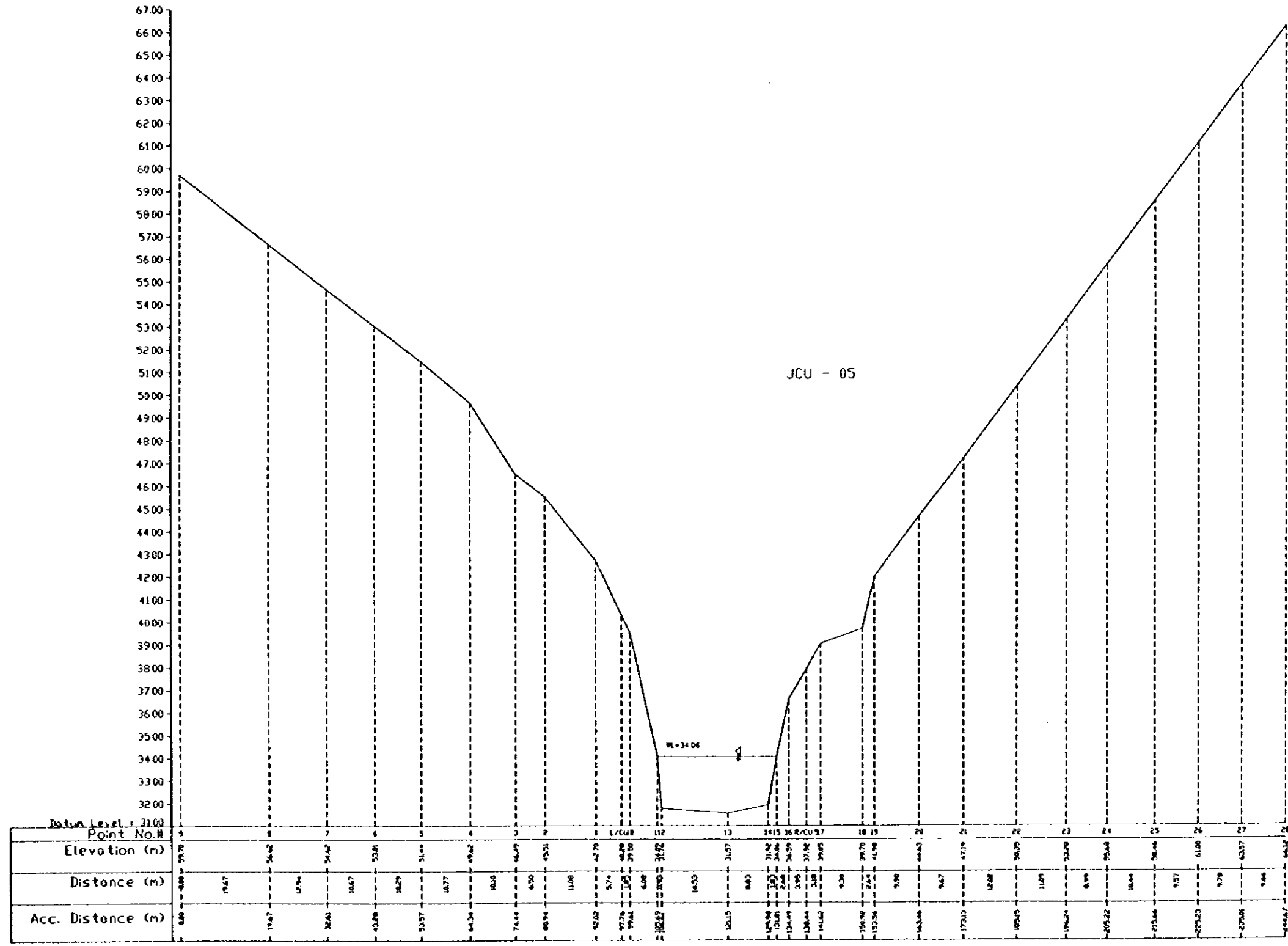
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
None	None	Horizontal 1 : 500	18 of 34
Signature	Signature	Vertical 1 : 100	
Date	Date		

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



Point No.	Elevation (m)	Distance (m)	Acc. Distance (m)
1	5972	0.00	0.00
2	5662	19.67	19.67
3	5462	47.94	67.61
4	5336	106.7	174.31
5	5144	162.9	337.21
6	4962	247.7	584.91
7	4647	362.0	946.91
8	4531	630	1576.91
9	4270	1126	2702.91
10	4029	1574	4276.91
11	3732	2408	6684.91
12	3172	3192	9876.91
13	3157	3455	13331.91
14	3670	3893	17224.91
15	3670	4115	21339.91
16	3905	4349	25688.91
17	3905	4582	30270.91
18	4198	4820	35090.91
19	4462	5067	40157.91
20	4719	5320	45476.91
21	5025	5580	50956.91
22	5320	5840	56596.91
23	5584	6100	62396.91
24	5844	6360	68340.91
25	6100	6620	74420.91
26	6357	6880	80640.91
27	6612	7140	86980.91
28	6867	7400	93440.91

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

(IN METERS)

1 : 500

1 : 100

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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 : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

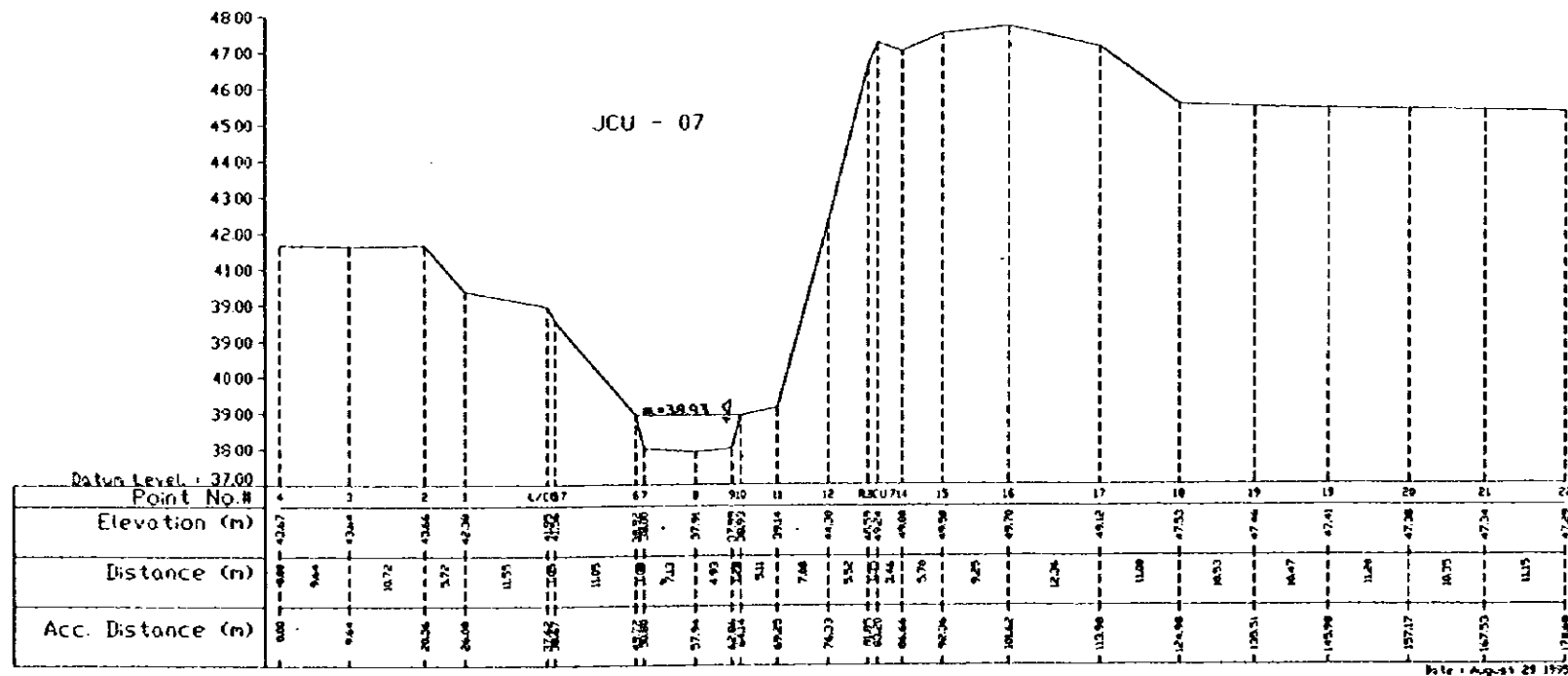
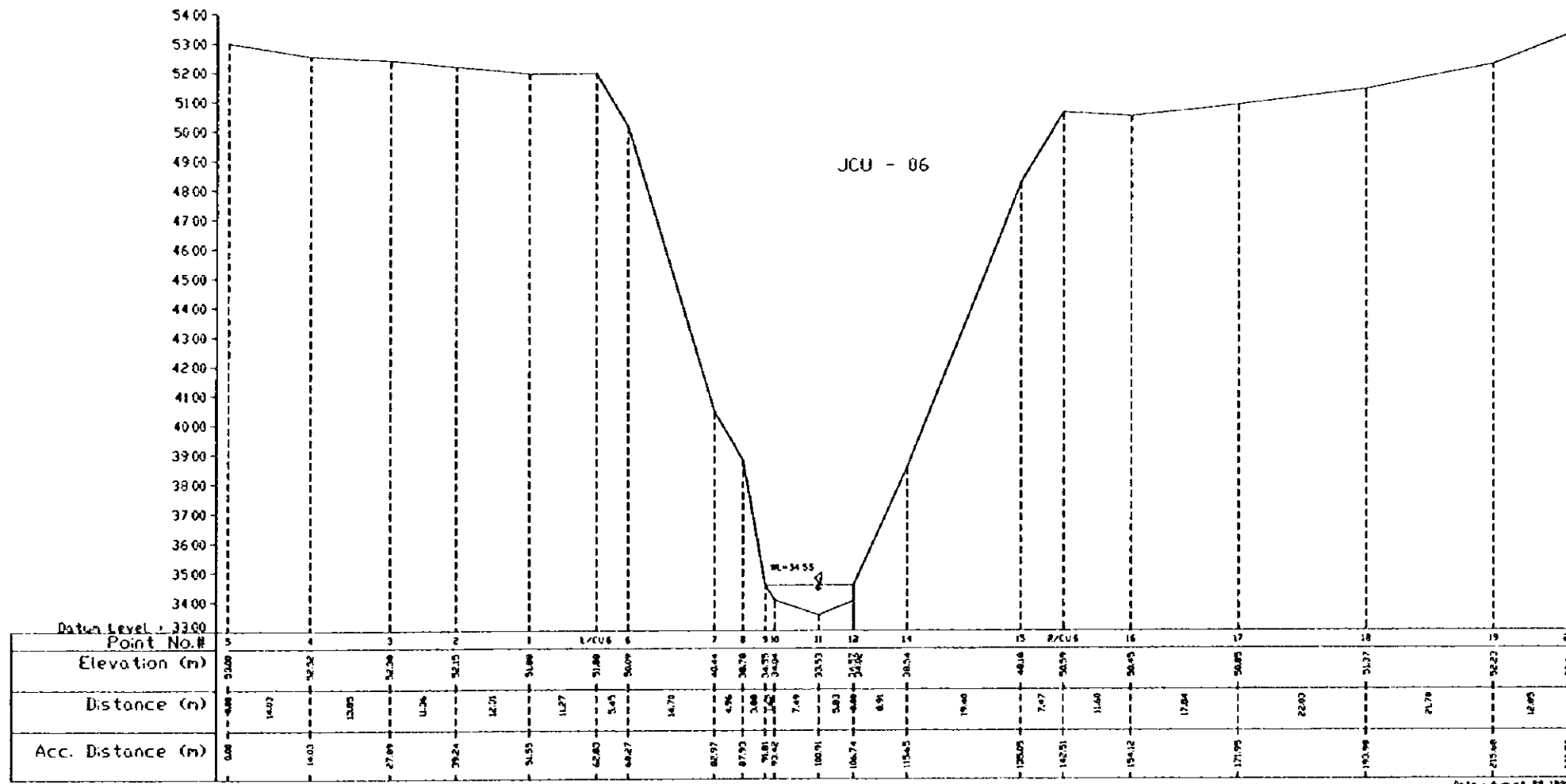
Checked by : BRAND SOEDARTO
 Approved by : T. HAN R. FORNIE

Signature : [Signature]
 Date : 12.11.95

Scale : Horizontal 1 : 500
 Vertical 1 : 100

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates JAKARTA - INDONESIA

Date : August 29 1995



Reference Point :
 The Elevation is referred to ITG 177 = 40.436 meters.
 The correlation between other system are
 ITG 177 ± 0 = NWP = 0.975 meters = PP + ... meter

(IN METERS)
 1 : 500

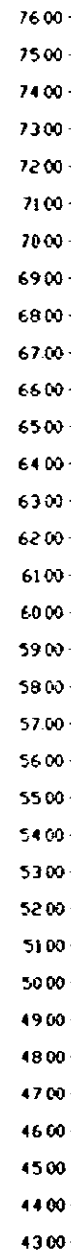
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by BIRCHHO SIEDARTO	Approved by R. RUM K. TORONG	Scale Horizontal 1 : 500 Vertical 1 : 100	Sheet No 20 of 34
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JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA

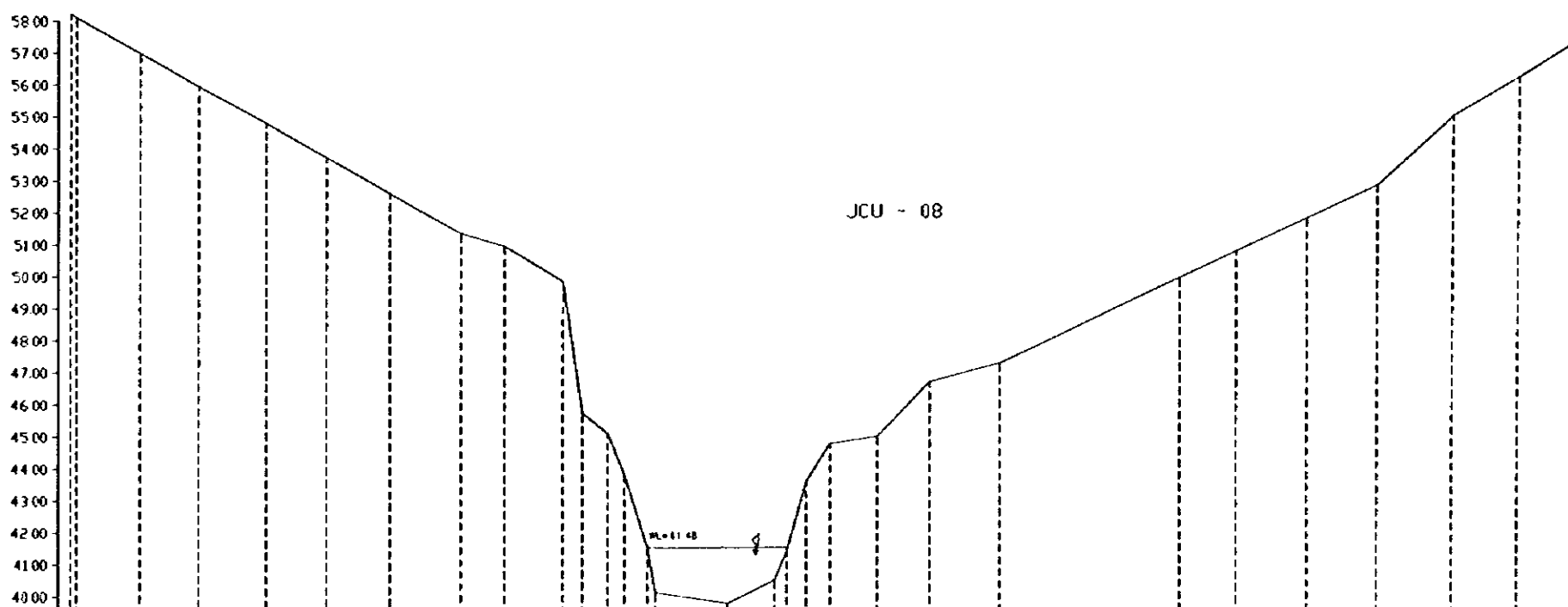


Datum Level : 42.00		Point No.#	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Elevation (m)			75.52	73.46	71.52	70.13	68.55	67.07	65.54	63.87	62.51	61.06	59.87	58.73	57.59	56.43	55.07	53.24	51.05	49.28	48.04	46.85	45.03	43.00
Distance (m)			11.34	16.71	18.97	18.48	7.69	10.89	18.97	74.02	18.62	8.86	69.91	6.99	7.82	18.21	18.99	123.82	125.86	7.62	6.79	13.89	4.66	9.44
Acc. Distance (m)			0.00	11.34	28.24	47.22	65.91	84.88	103.85	177.87	251.89	260.75	330.66	337.65	345.47	363.68	382.67	506.49	630.35	706.64	713.43	727.32	741.21	750.65

JCU - 09

RL = +43.50

Datum Level : 39.02		Point No.#	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
Elevation (m)			43.42	43.28	43.24	43.17	43.14	43.13	43.12	43.11	43.10	43.09	43.08	43.07	43.06	43.05	43.04	43.03	43.02	43.01	43.00	
Distance (m)			11.06	7.34	10.44	9.44	10.00	11.23	6.95	9.12	8.98	8.07	8.08	8.28	8.28	8.29	8.30	8.31	8.32	8.33	8.34	
Acc. Distance (m)			11.06	18.40	28.84	38.28	47.72	58.95	65.90	75.02	83.99	92.06	100.34	108.62	116.90	125.19	133.48	141.77	150.06	158.35	166.64	174.93



JCU - 08

RL = +41.48

Reference Point :
 The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are:
 TIG 177 ± 0 = MWP - 0.875 meters = PP 4 meters

(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

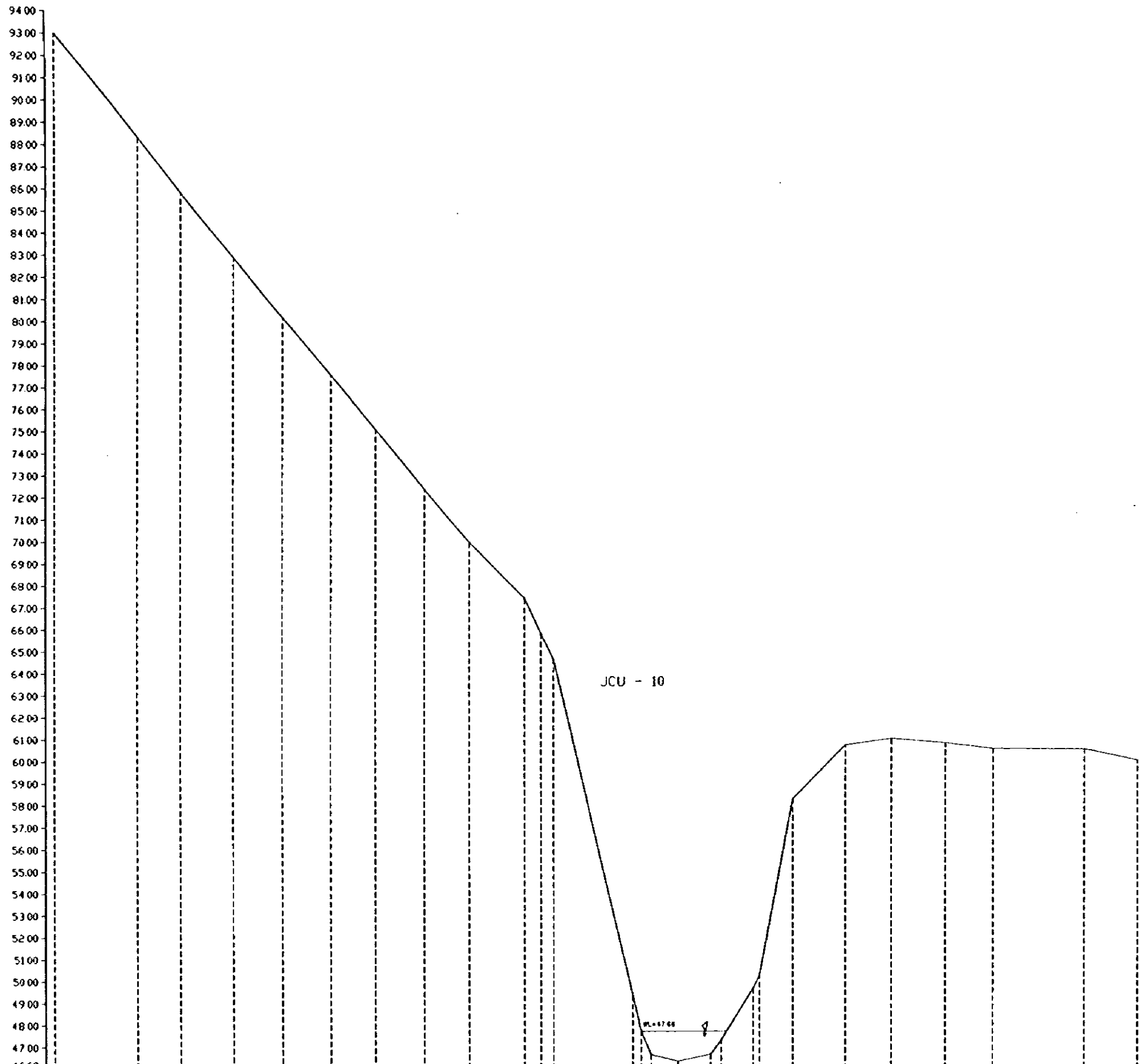
Name of River : **CILIWUNG RIVER** Drawing Title : **CROSS SECTION**

Checked by : B. PRONO	Approved by : K. TOMANE	Scale : Horizontal 1 : 500 Vertical 1 : 100	Sheet No : 21 of 34
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Date : 20.11.95

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

Date : August 21 1995



Point No.#	Elevation (m)	Distance (m)	Acc. Distance (m)
25	93.00	0.00	0.00
24	88.33	19.25	19.25
23	85.79	16.79	36.04
22	82.85	12.20	48.24
21	80.13	11.20	59.44
20	77.32	10.84	70.28
19	74.03	10.25	80.53
18	72.01	11.20	91.73
17	69.94	10.27	102.00
16	67.27	12.71	114.71
15	65.75	2.29	117.00
14	64.58	2.77	119.77
13	61.32	18.22	138.00
12	59.33	1.75	139.75
11	58.21	2.21	141.96
10	57.48	9.45	151.41
9	56.42	7.34	158.75
8	57.24	2.75	161.50
7	57.37	7.37	168.87
6	58.51	2.52	171.39
5	58.75	7.43	178.82
4	60.06	11.94	190.76
3	60.96	14.57	205.33
2	60.75	12.25	217.58
1	60.48	16.99	234.57
0	60.44	20.52	255.09
1	60.44	12.81	267.90

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

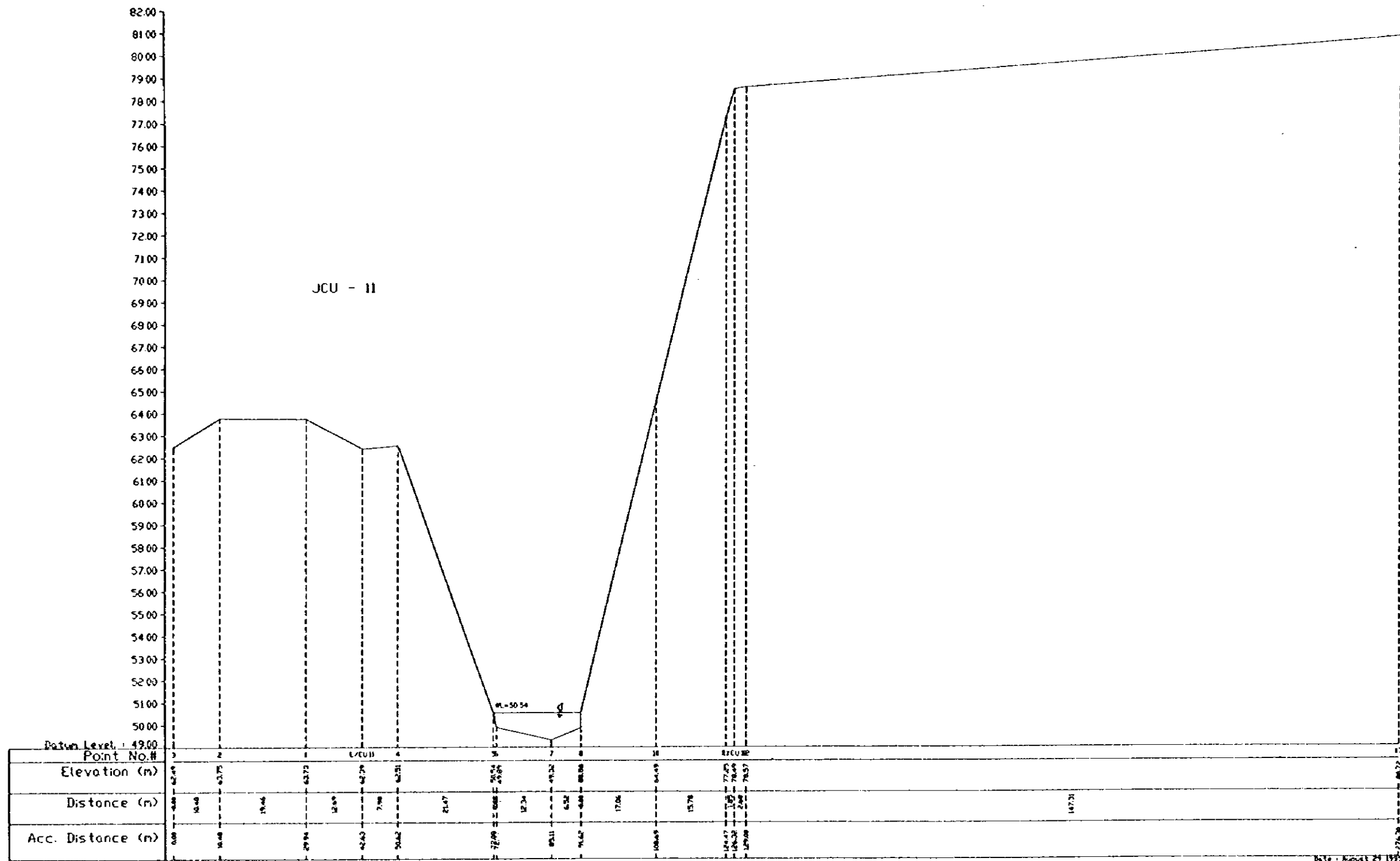
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILIWUNG RIVER	Drawing Title : CROSS SECTION
Checked by : S. SUDARNO	Approved by : K. TORANE
Scale : Horizontal 1 : 500 Vertical 1 : 100	Sheet No. : 22 of 34

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

WIBATMAN & Associates
 JAKARTA - INDONESIA

Date : Sept. 23 1995



Date: August 24 1995

Reference Point :
 The Elevation is referred to ITC 1977 = 40.156 meters
 The correlation between other system are :
 ITC 1977 ± 0 = ANP = 0.975 meters = PP ± ... meter

(IN METERS)
 1 : 500
 1 : 100
 No - 1/500

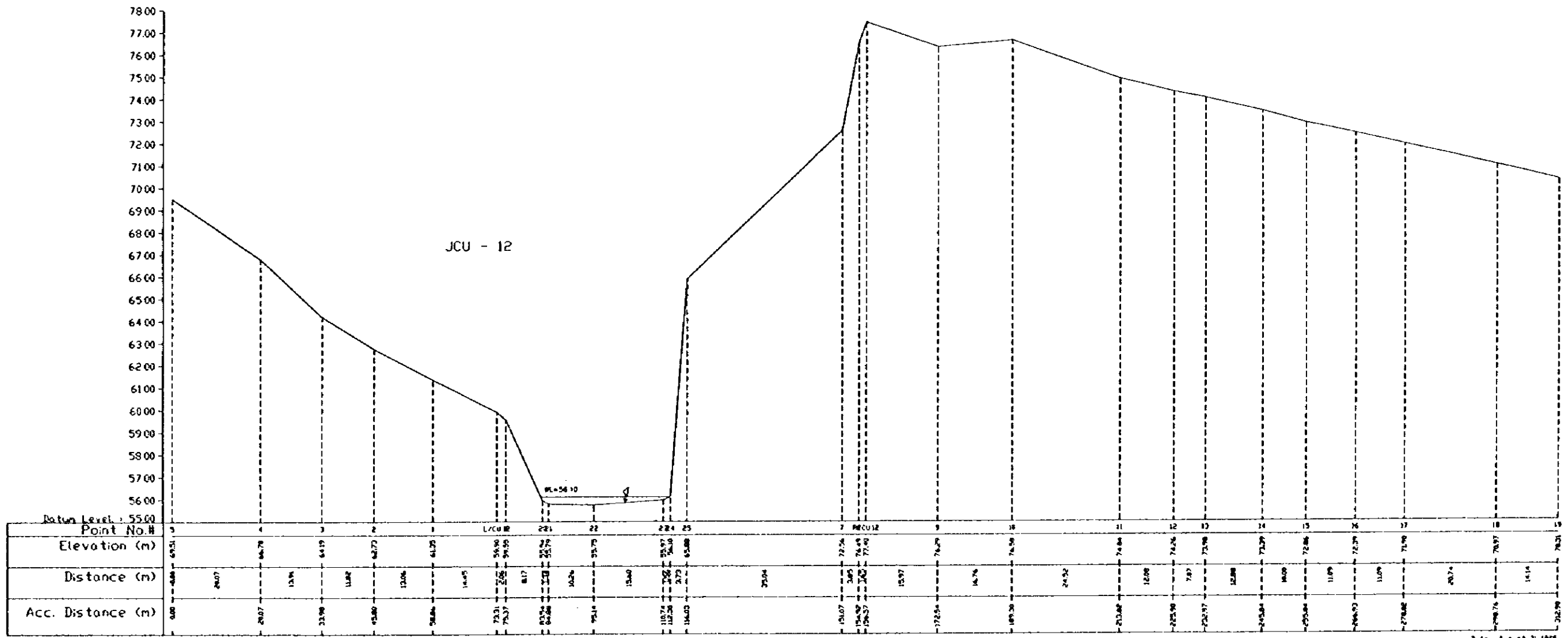
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
BRUNO	A. SUDARNO	Horizontal 1 : 500 Vertical 1 : 100	23 of 34

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



Scale - August 31 1995

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

(IN METERS)
 1:500

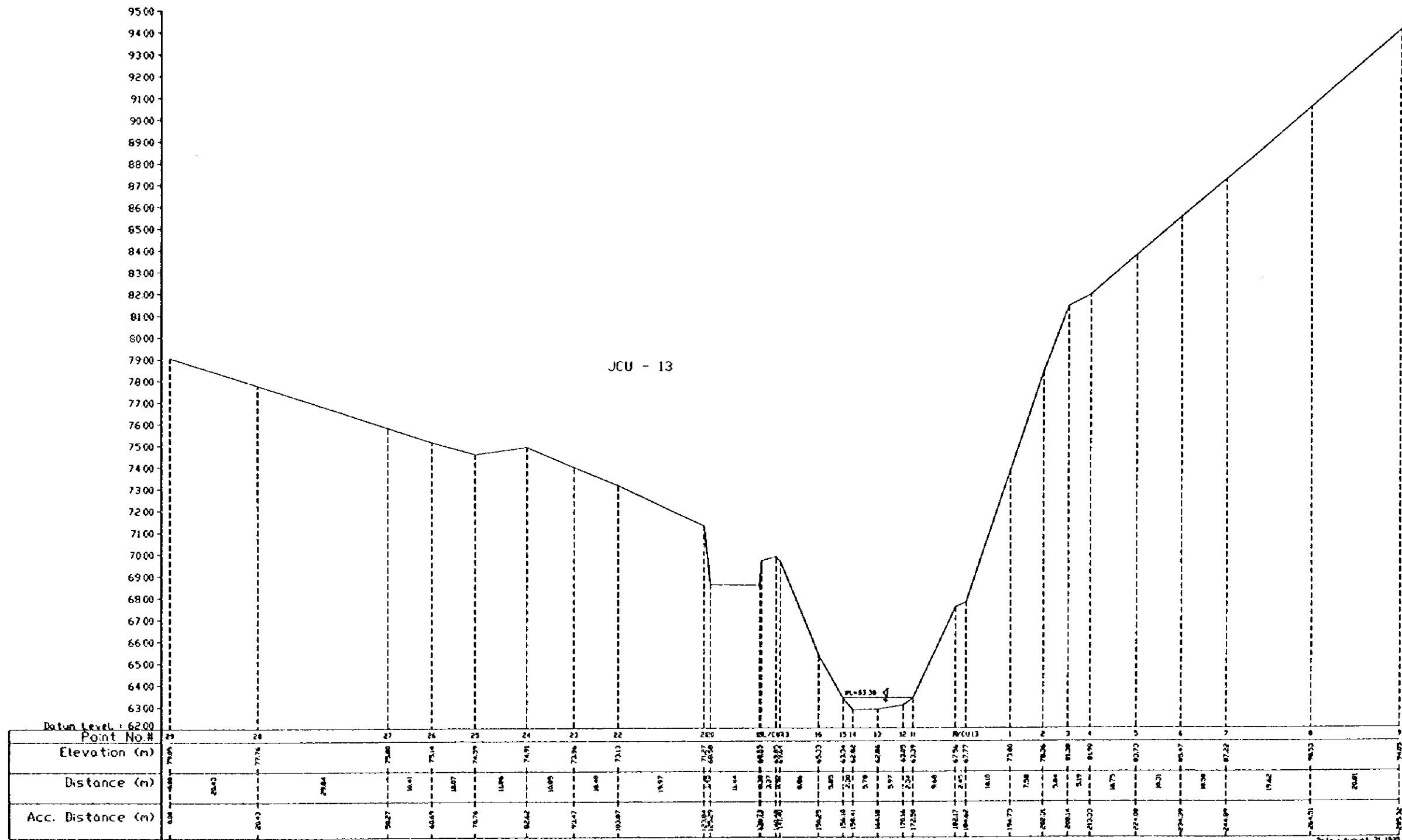
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
BRUNO SOEDARNO	I. H. H. TOPHANE	Horizontal 1 : 500	24 of 34
By Date	Date	Vertical 1 : 100	
12.11.95	12.11.95		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WIRATMAN & Associates JAKARTA - INDONESIA



Date: August 31 1995

Reference Point:
 The Elevation is referred to ITG 177 = 60.136 meters
 The correlation between other system are:
 ITG 177 ± 0 = hWP - 0.875 meters = PP + ... meter

(IN METERS)
 0 10 20 30 40 50
 1:500
 No = 1.800

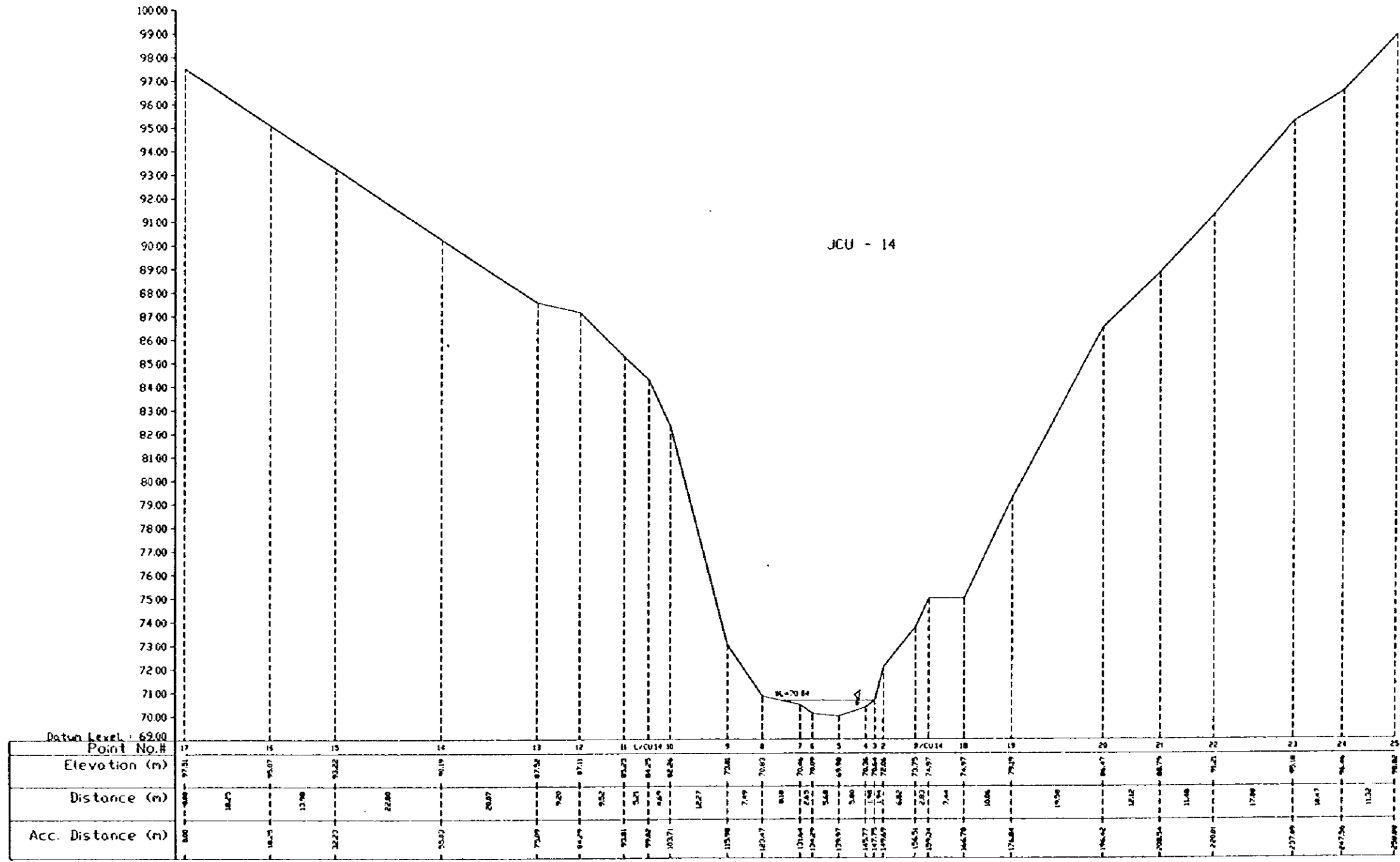
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
BRUNO SOEJARTO	I. HAN A. SUPANE	Horizontal 1 : 500 Vertical 1 : 100	25 of 34
Signature	Date		
<i>[Signature]</i>	10.8.95		

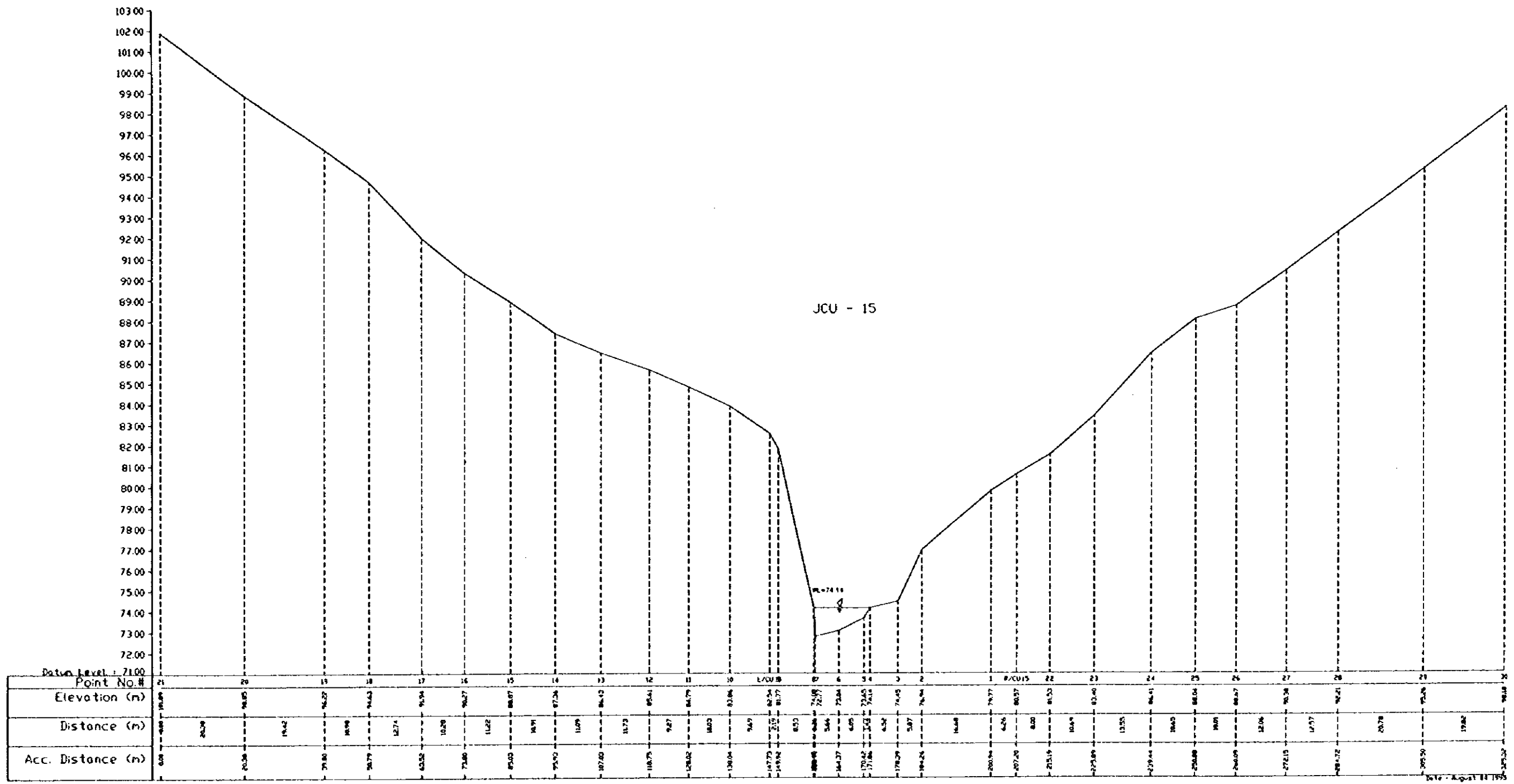
JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



JCU - 14

Date : Sept 04 1995

Reference Point : The Elevation is referred to ITG 177 = 40 136 meters The correlation between other systems are : ITG 177 ± 0 = 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 : CILIWUNG RIVER		Drawing Title : CROSS SECTION
Checked by : BIRANO SOEPRITO Date : 10.11.95	Approved by : T. MUR R. YUPANE Date : 20.11.95	Scale : Horizontal 1 : 500 Vertical 1 : 100
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WHATMAN & Associates JAKARTA - INDONESIA
		Sheet No. 26 of 34



Reference Point :
 The Elevation is referred to TTG 177 = 40.136 meters
 The connection between other system are :
 TTG 177 ± 0 = KWT = 0.975 meters = PP ± meter

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

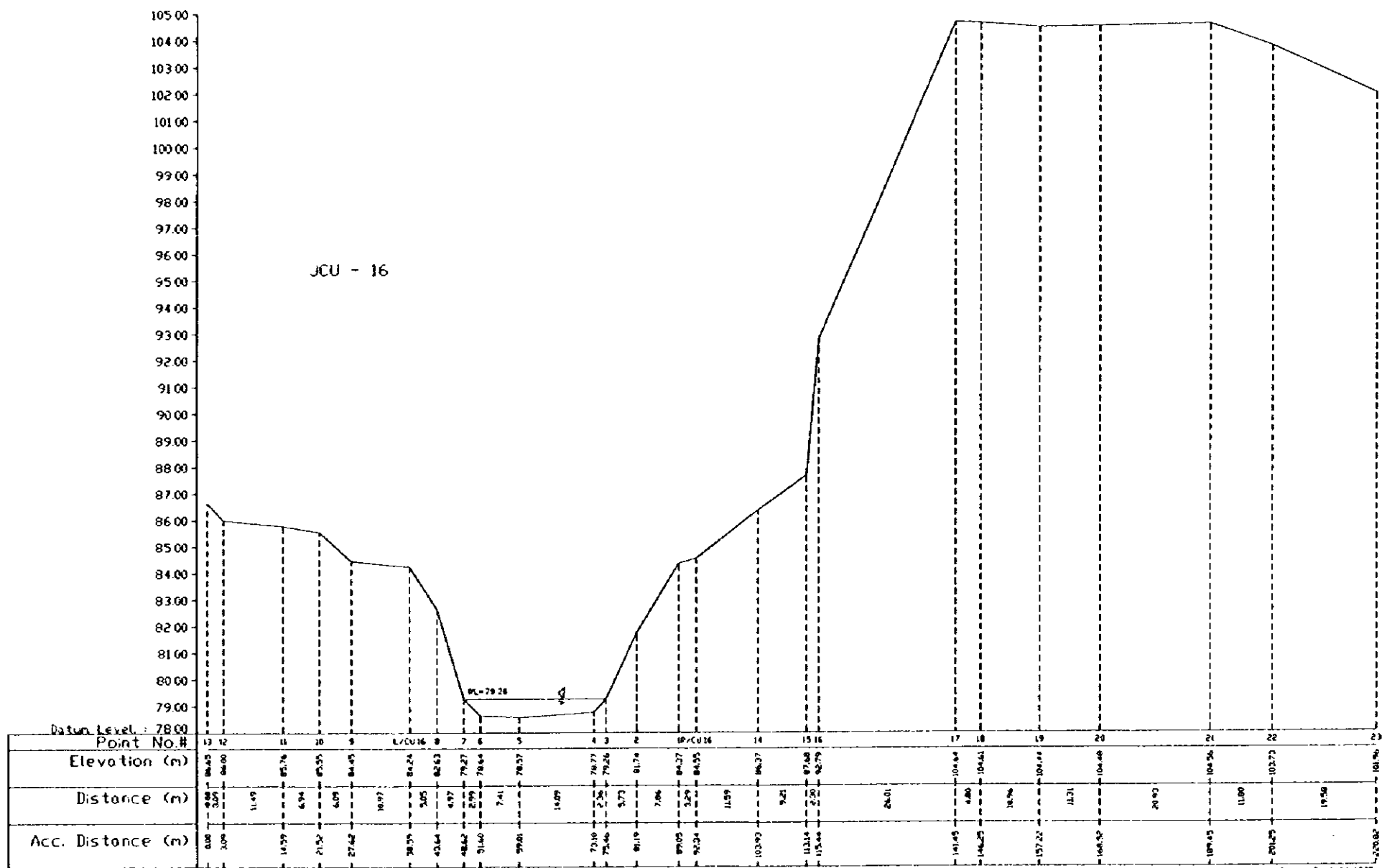
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

Checked By : [Signature]
 Approved By : [Signature]

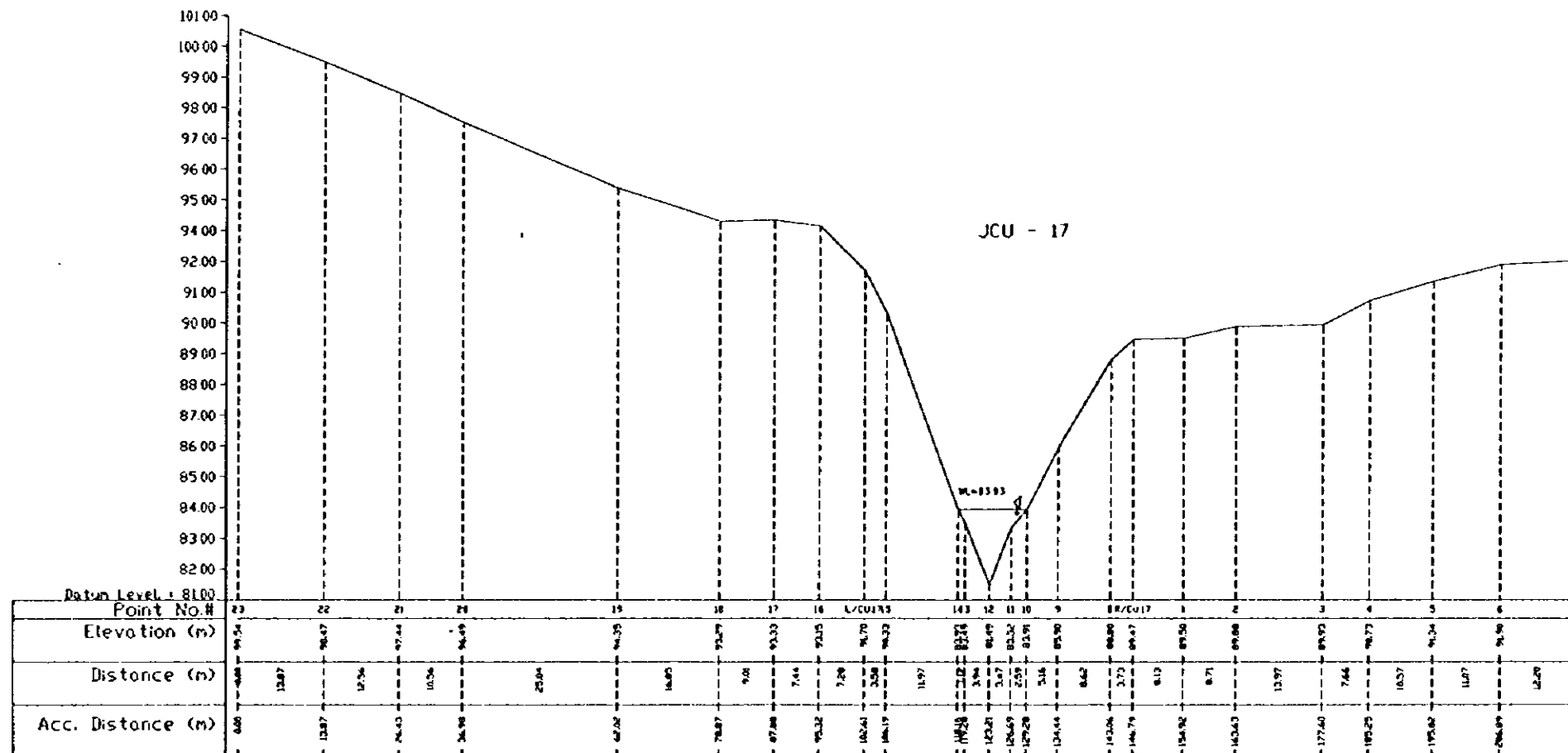
Scale : Horizontal 1 : 500, Vertical 1 : 100
 Sheet No. : 27 of 34

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates JAKARTA - INDONESIA



Date - Sept 04 1995

Reference Point : The Elevation is referred to FIG 177 = 40.136 meters The correlation between other system are : FIG 177 ± 0 = NWP = 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 : CILIWUNG RIVER		Drawing Title : CROSS SECTION	
Checked by	Approved by	Scale	Sheet No
Name : BIRSHO Signature : Date : 12.01.95	Name : Signature : Date : 20.11.95	Horizontal 1 : 500 Vertical 1 : 100	28 of 34
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WIRAWAN & Associates JAKARTA - INDONESIA	



Date: Sept 04 1995

Reference Point:
 The Elevation is referred to ITC 177 = 40.136 meters.
 The correlation between other system are:
 ITC 177 ± 0 = MNP = 0.875 meters = PP ± . . . meter

(IN METERS)

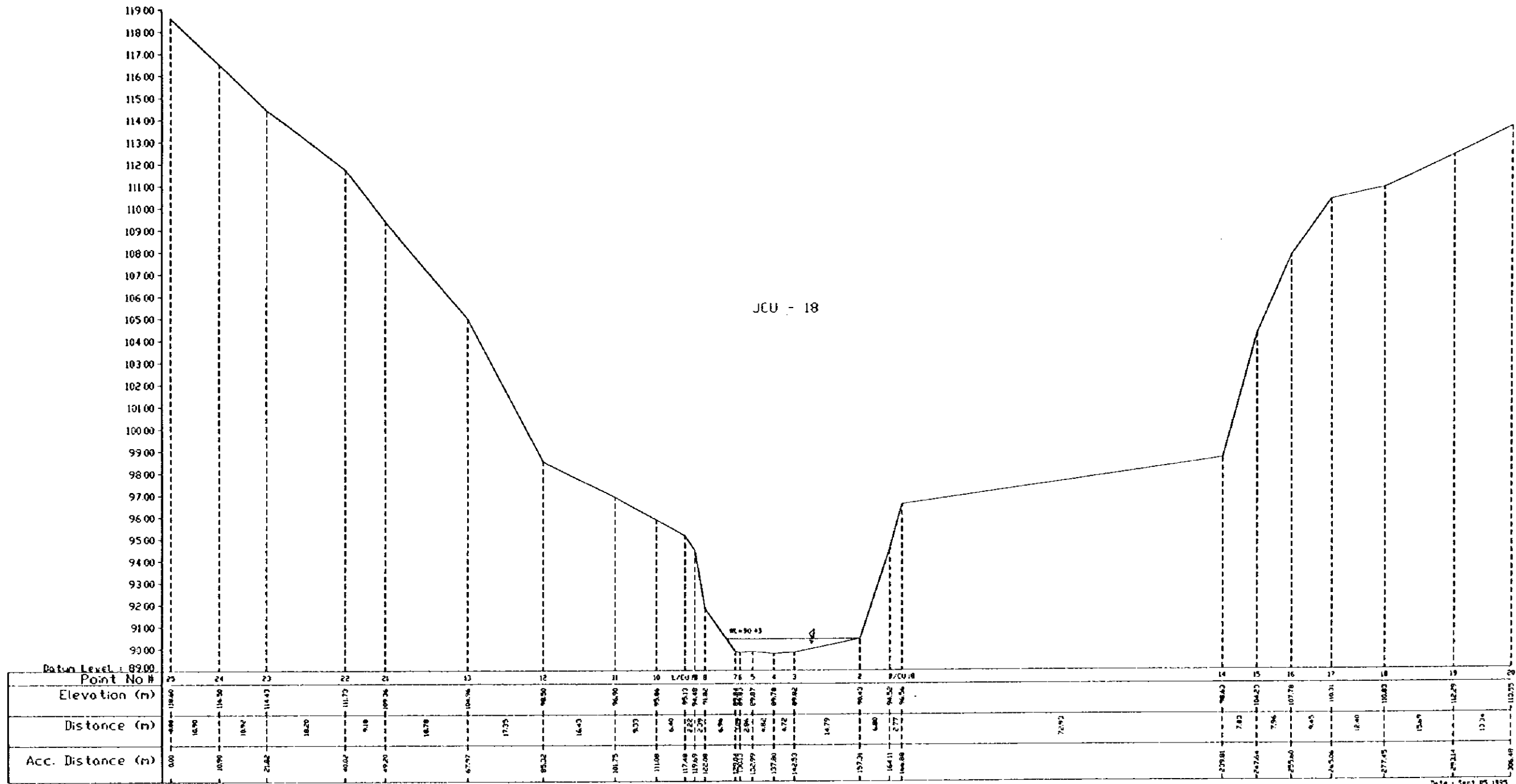
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
Name : Budiyo SOEDARJO	Name : E. M. K. ZOPHANE	Horizontal : 1 : 500	29 of 34
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Vertical : 1 : 100	
Date : 12.11.95	Date : 20.11.95		

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



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

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

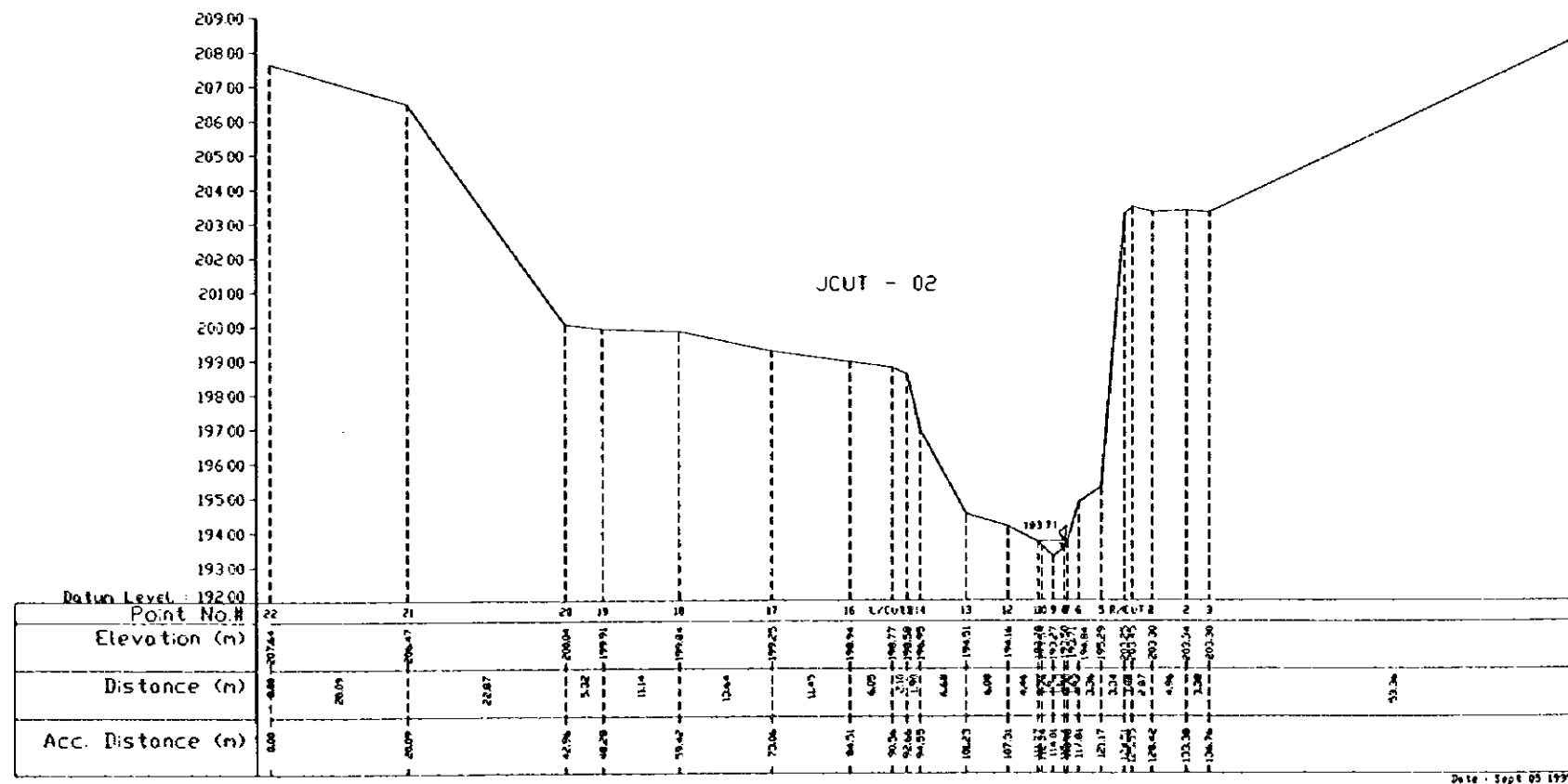
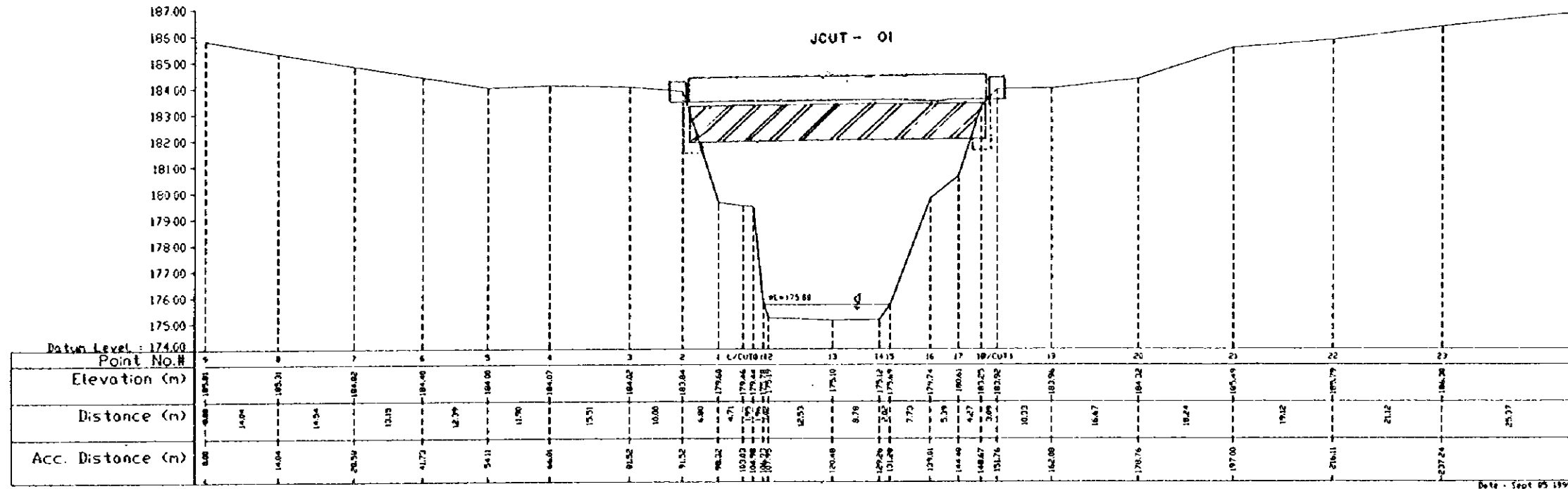
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

Checked by : [Signature] Approved by : [Signature]
 Name : [Name] [Name]
 Signature : [Signature] [Signature]
 Date : 10.11.25 11.11.25

Scale : Horizontal 1 : 500
 Vertical 1 : 100
 Sheet No : 30 of 34

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIATMAN & Associates JAKARTA - INDONESIA



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

(IN METERS)
 1 : 1100
 1 : 500

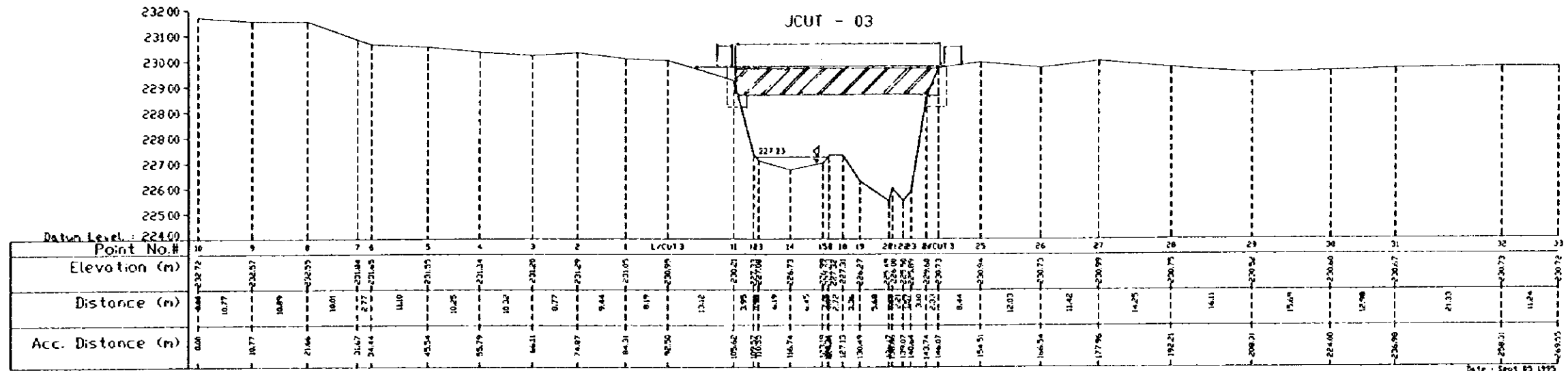
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

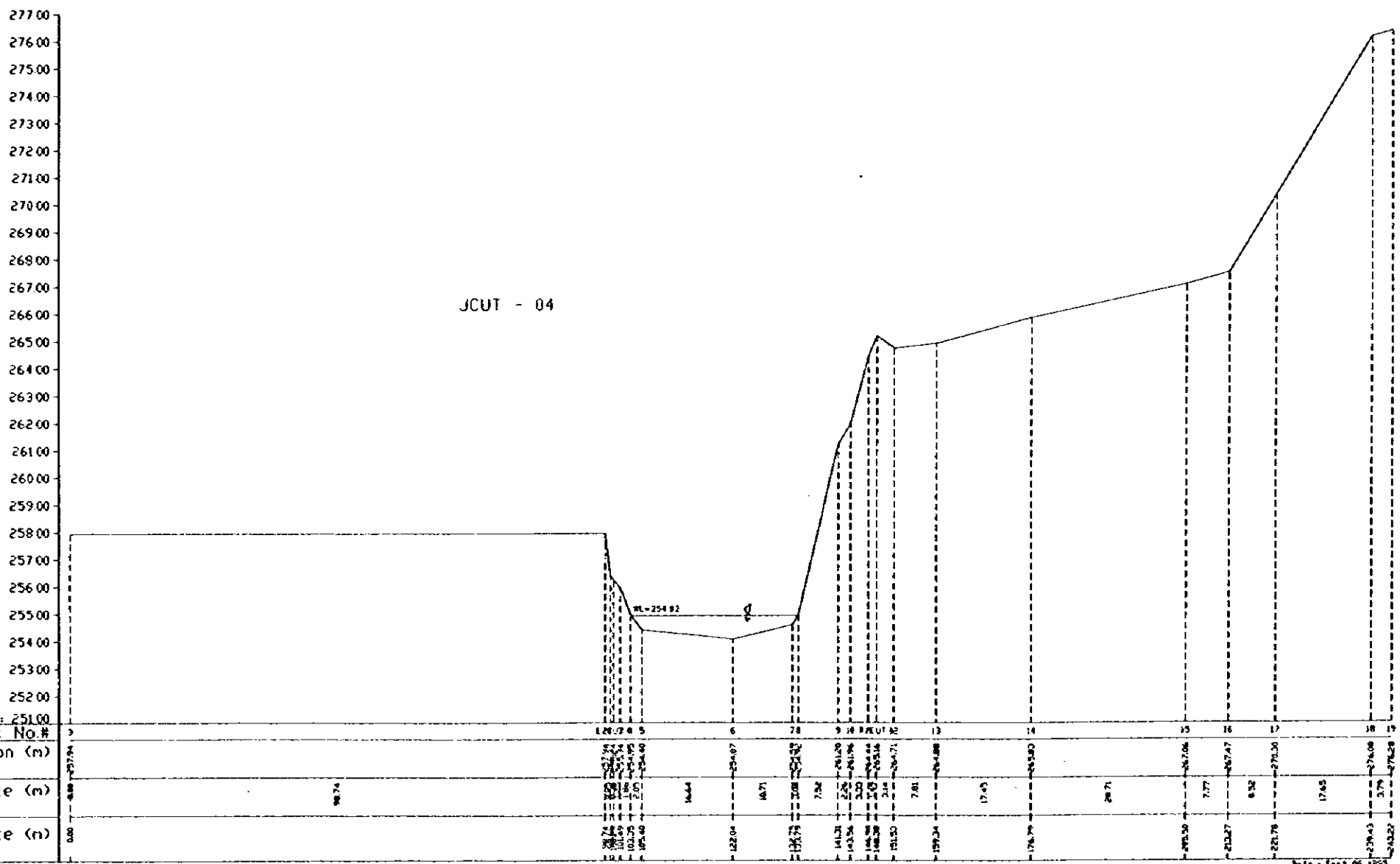
Name of River : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

Checked by B. KICAO 22.11.95	Approved by S. KARTO 20.11.95	Scale Horizontal 1 : 500 Vertical 1 : 100	Sheet No. 31 of 34
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JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates
 JAKARTA - INDONESIA



Date: Sept 05 1995



Date: Sept 06 1995

Reference Point:
 The Elevation is referred to FIG 177 = 42.136 meters
 The correlation between other system are
 FIG 177 ± 0 = 42.975 meters = FP ± meter

(IN METERS)
 1 : 100
 1 : 500

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

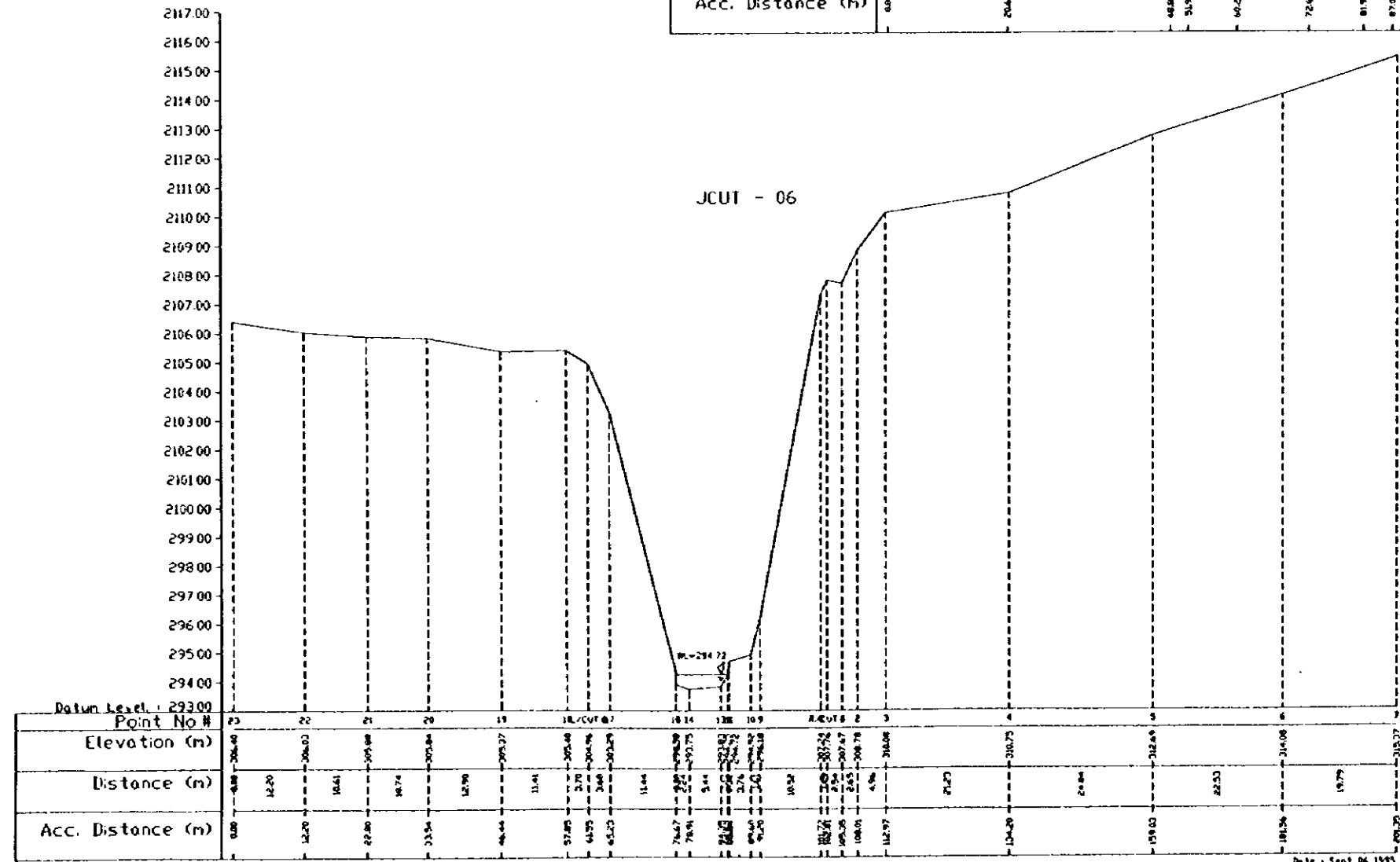
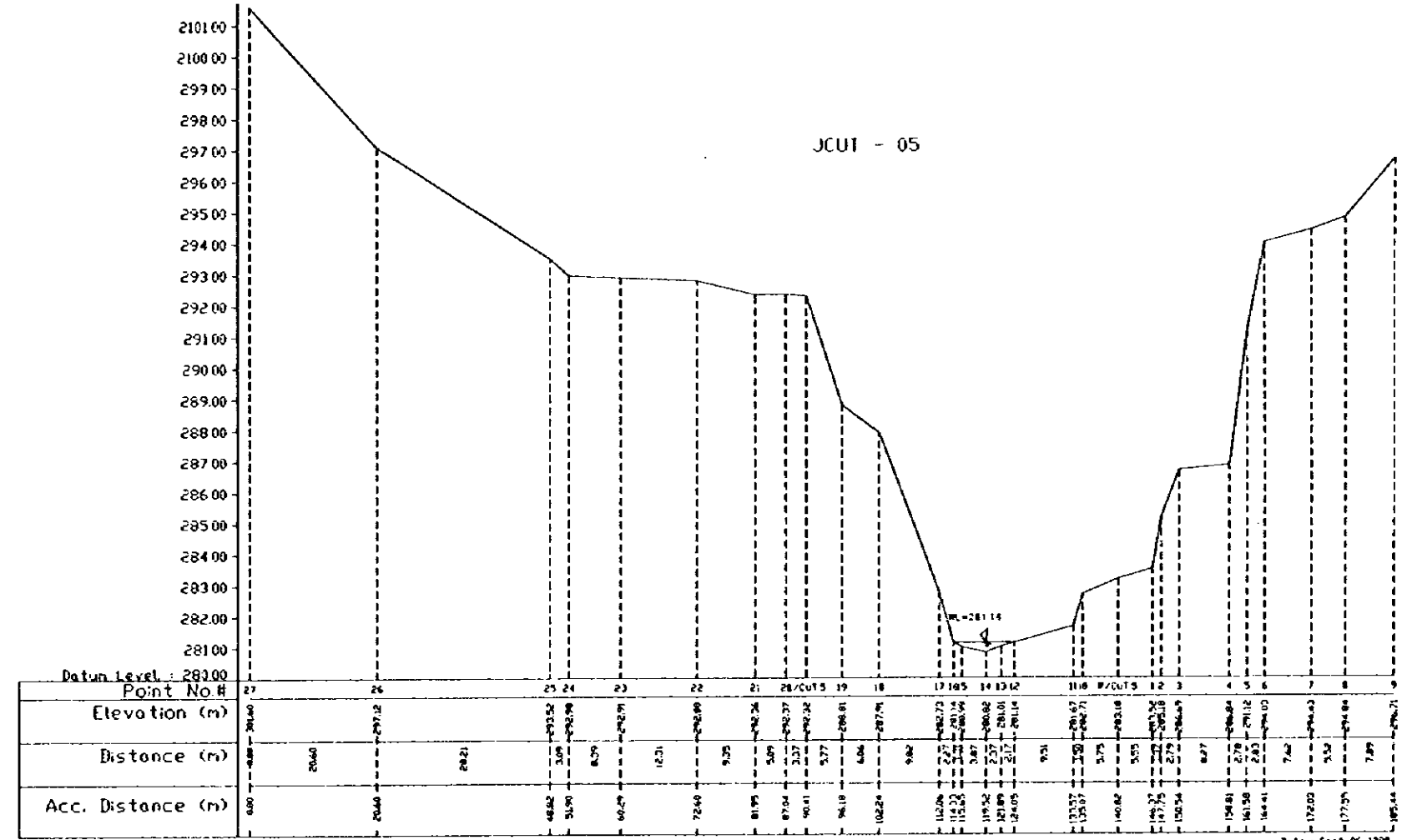
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

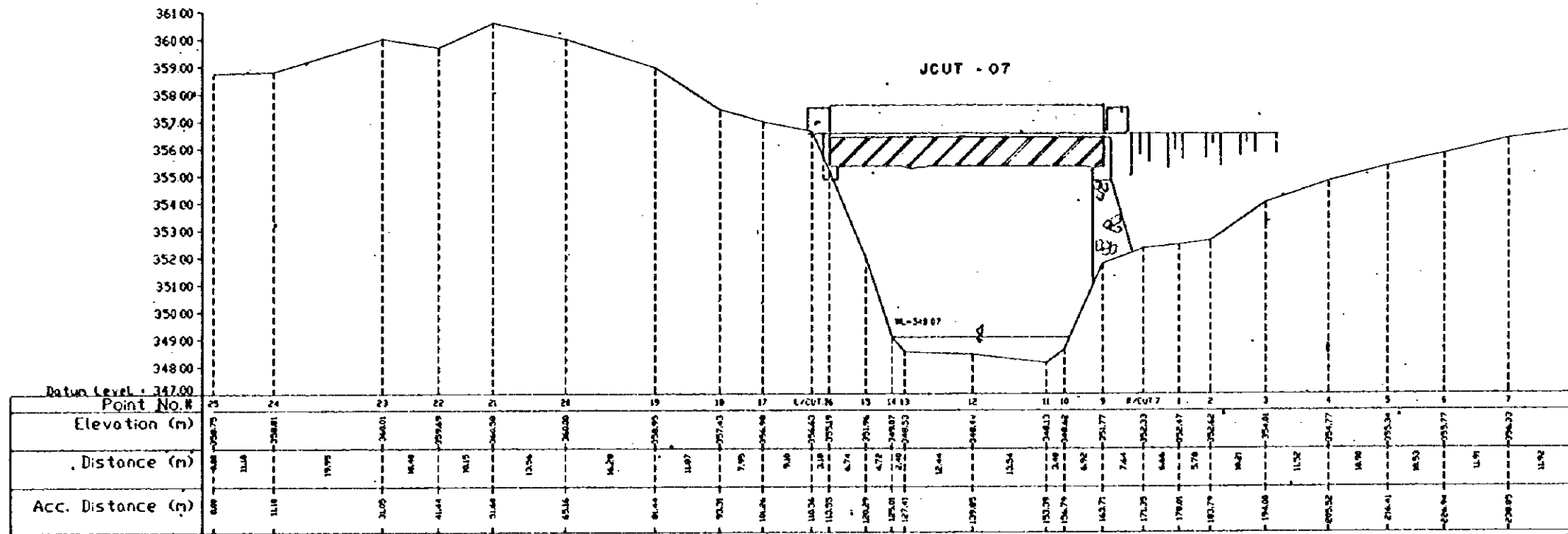
Checked By	Approved By	Scale	Sheet No.
Buana SUCARNO	I. H. N. N. N.	Horizontal 1 : 500 Vertical 1 : 100	32 of 34

Date: 20.11.95

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WILIAMAN & Associates JAKARTA - INDONESIA



Reference Point : The Elevation is referred to TTG 177 = 40.138 meters The correlation between other system are TTG 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 : CILIWUNG RIVER		Drawing Title : CROSS SECTION	
Checked by <i>[Signature]</i>	Approved by <i>[Signature]</i>	Scale Horizontal : 1 : 500 Vertical : 1 : 100	Sheet No. 33 of 34
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WARITMAN & Associates JAKARTA -- INDONESIA	



Date : Sept 26 1995

Reference Point :
 The Elevation is referred to TIG 177 = 40.158 meters
 The correlation between other system are :
 TIG 177 ± 0 = NRP - 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

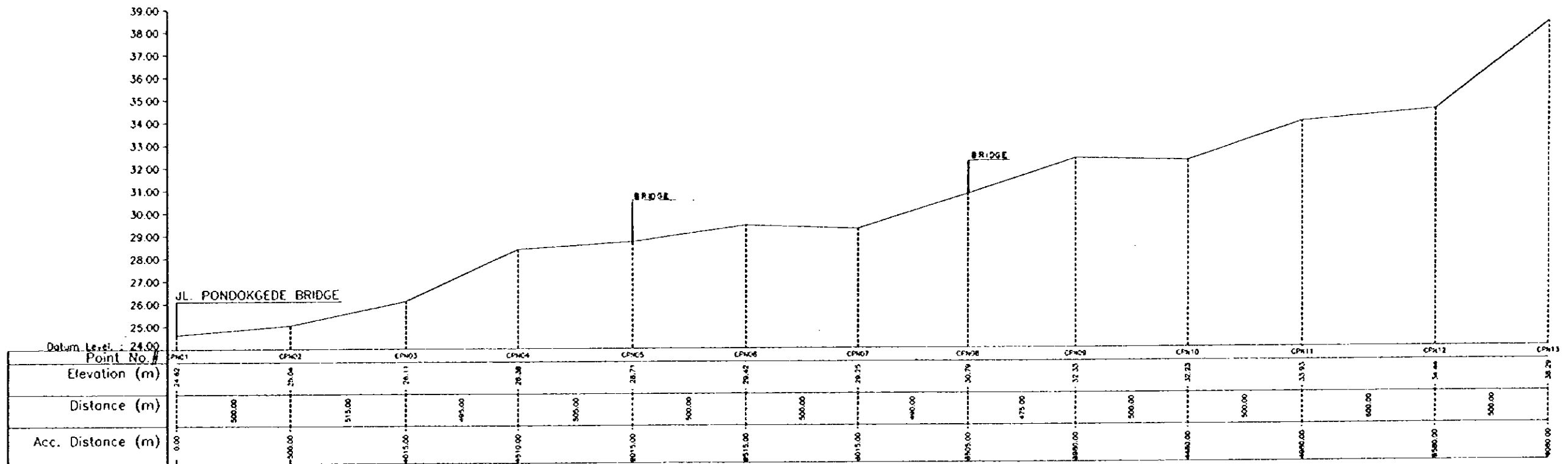
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CILIWUNG RIVER
 Drawing Title : CROSS SECTION

Checked by	Approved by	Scale	Sheet No
BANDUNG S. S. S.	I. S. S. R. S. S.	Horizontal 1 : 500 Vertical 1 : 100	34 of 34

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates
 JAKARTA - INDONESIA

8 River Survey of Proposed Eastern Banjir Canal System
(Cipinang, Sunter, Buaran, Jatikramat and Cakung Rivers)



Reference Point :
 The Elevation is referred to TIG 177 = 43 136 meters
 The correlation between other system are
 TIG 177 ± 0 = NWP = 0.975 meters = PP ± ... meter

(IN METERS)
 0 1 2 3 4 5 6 7 8 9 10
 0 1 2 3 4 5 6 7 8 9 10
 1:10000

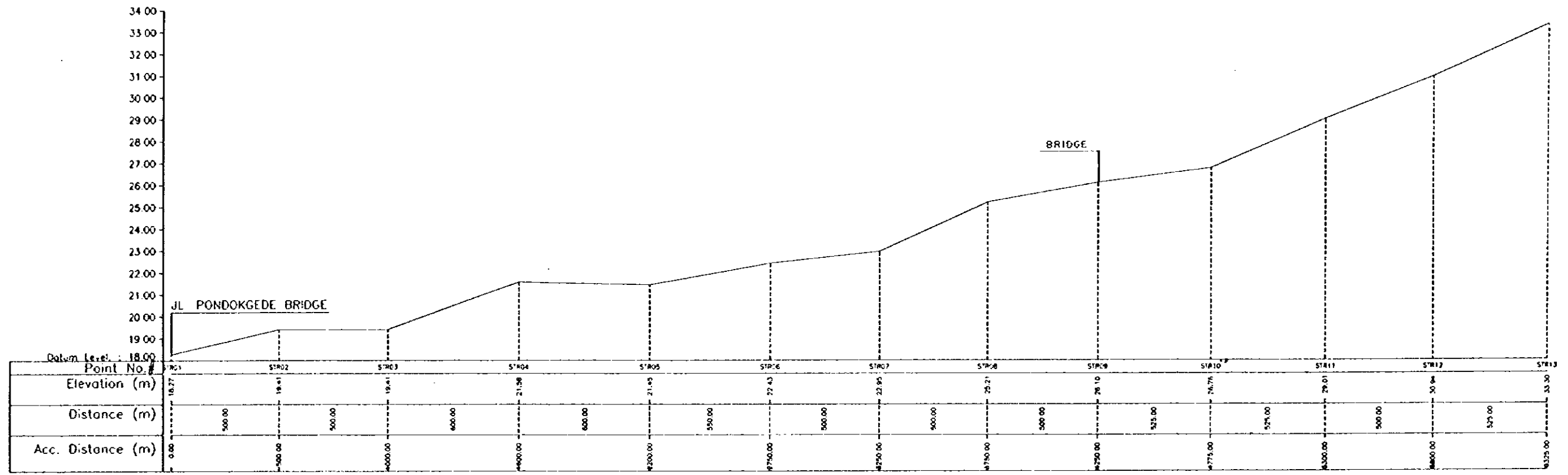
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
BANHO Signature: [Signature] Date: 26-1-25	SEDIPTO Signature: [Signature] Date: 26-1-25	Horizontal 1 : 10000 Vertical 1 : 100	1 of 1

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WHATMAN & 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 = PF ± . . . meter

1:100 (IN METERS)

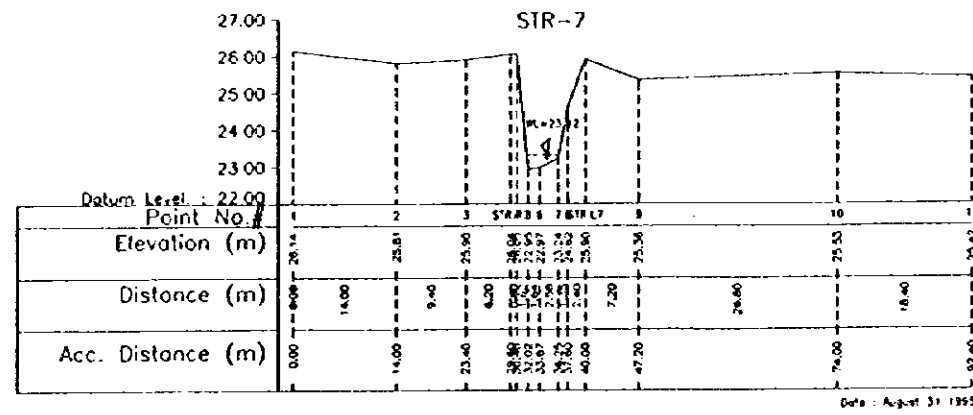
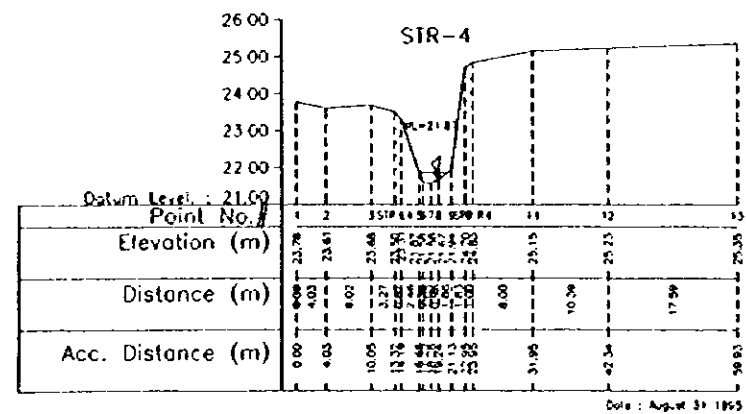
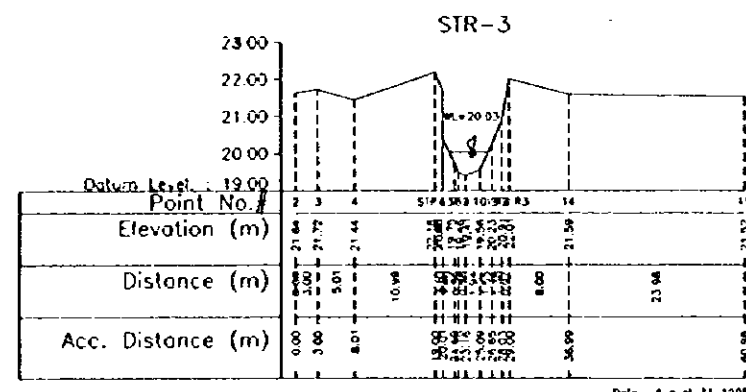
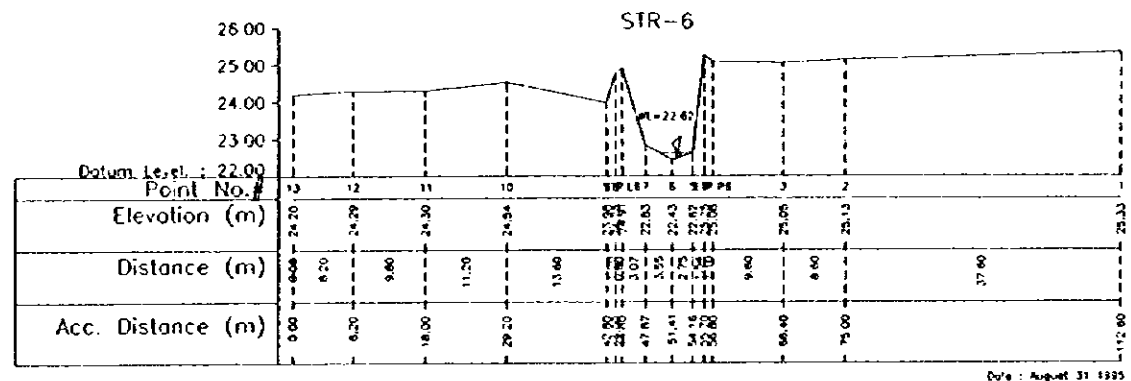
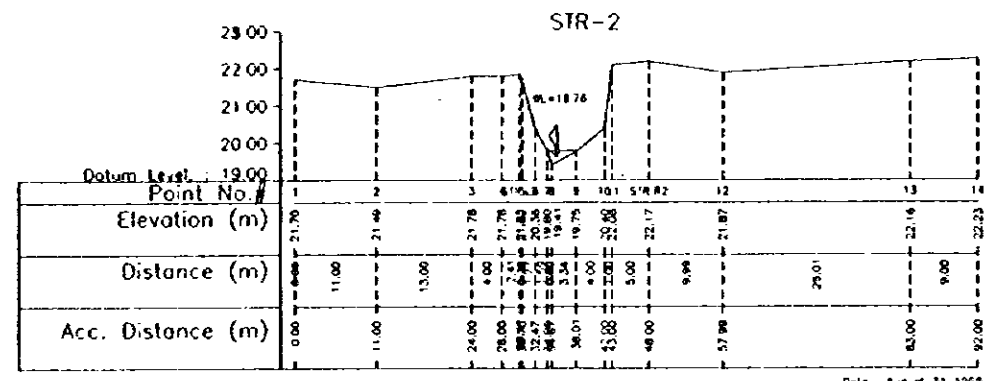
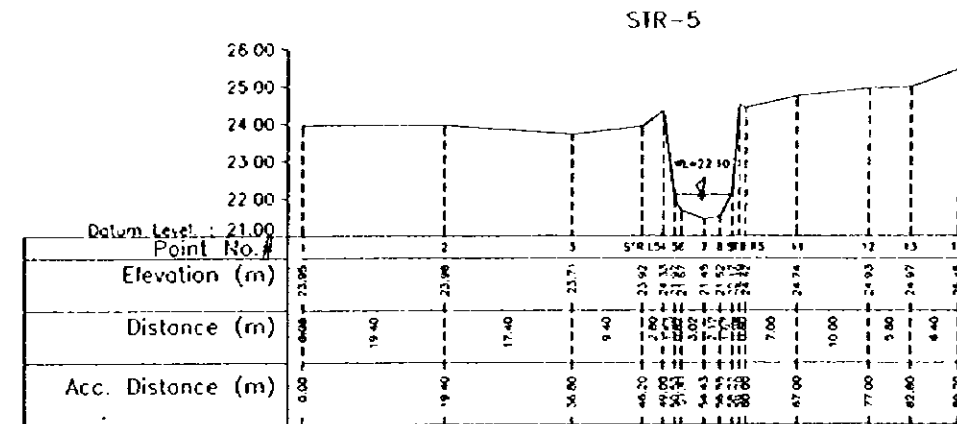
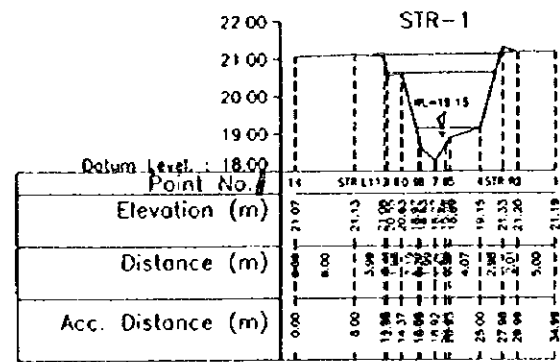
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTABEK

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

Created by	Approved by	Scale	Sheet No
Name : <i>[Signature]</i>	Name : <i>[Signature]</i>	Horizontal 1 : 10000	1 of 1
Date : 25.11.25	Date : 26.11.25	Vertical 1 : 100	

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



Reference Point
The Elevation is referred to ITC 177 = 40.136 meters
The correlation between other system are
ITC 177 ± 0 = NWP = 0.975 meters = FP ± meter

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

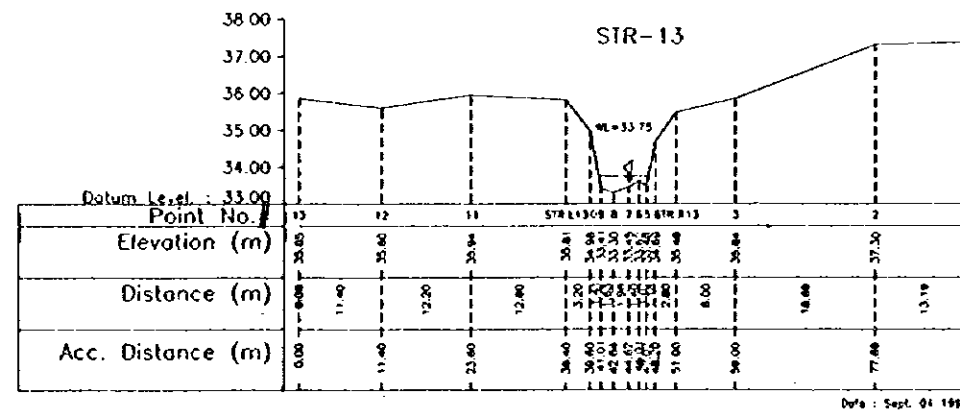
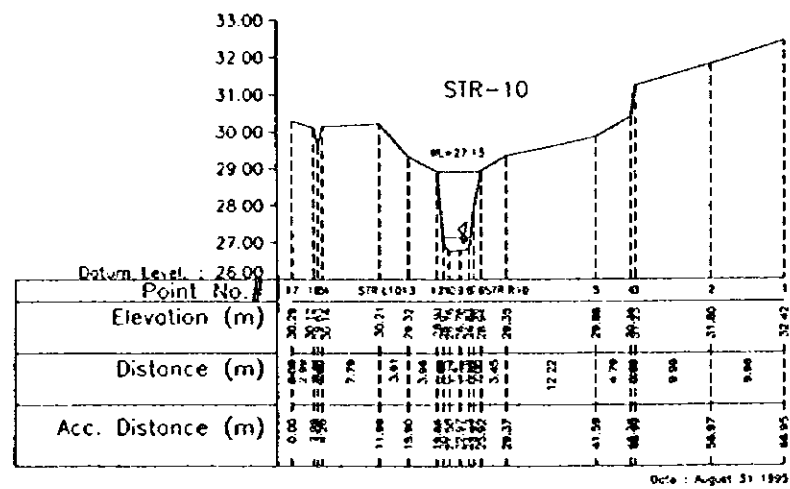
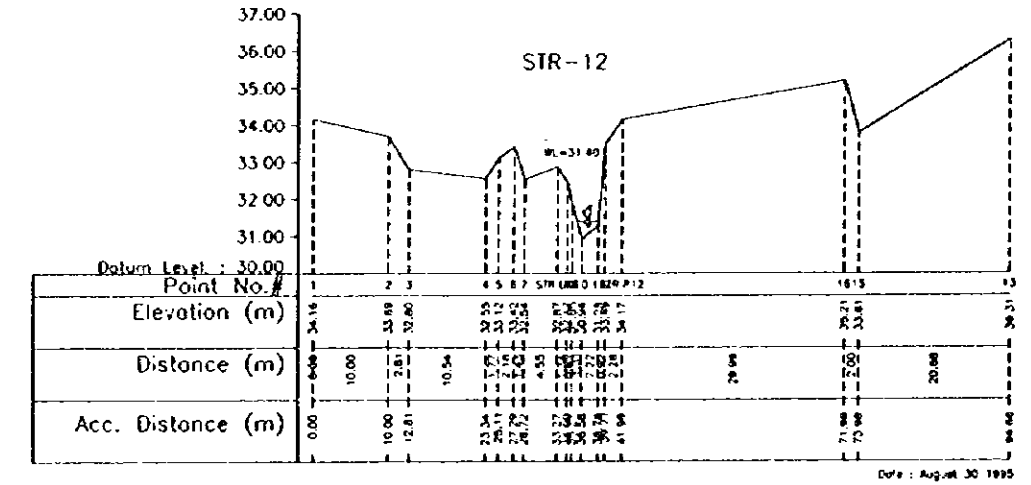
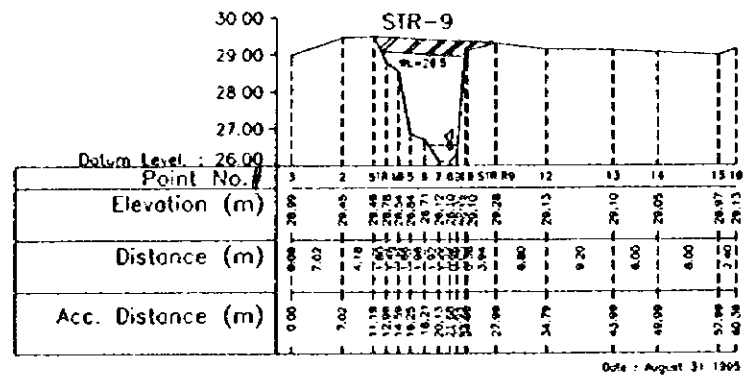
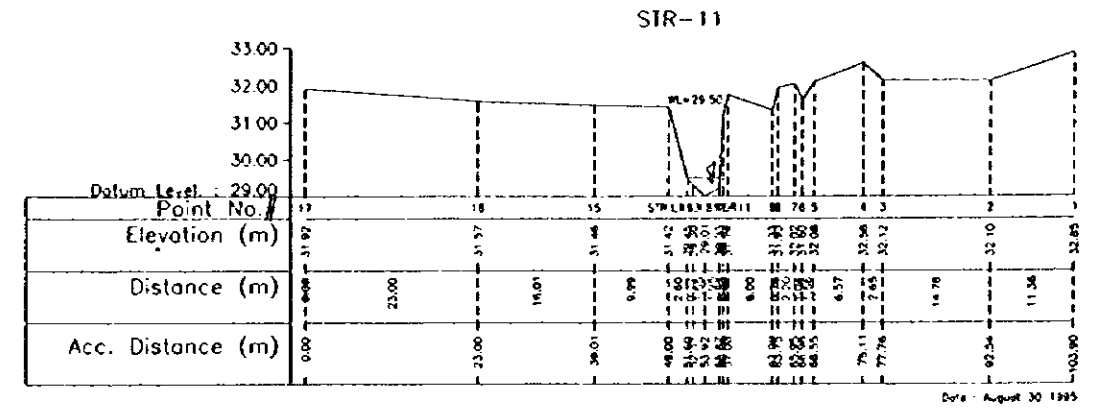
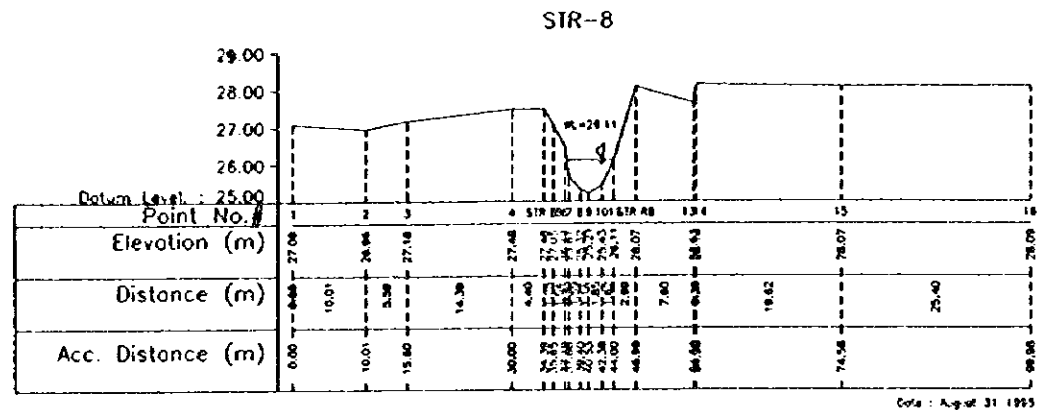
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

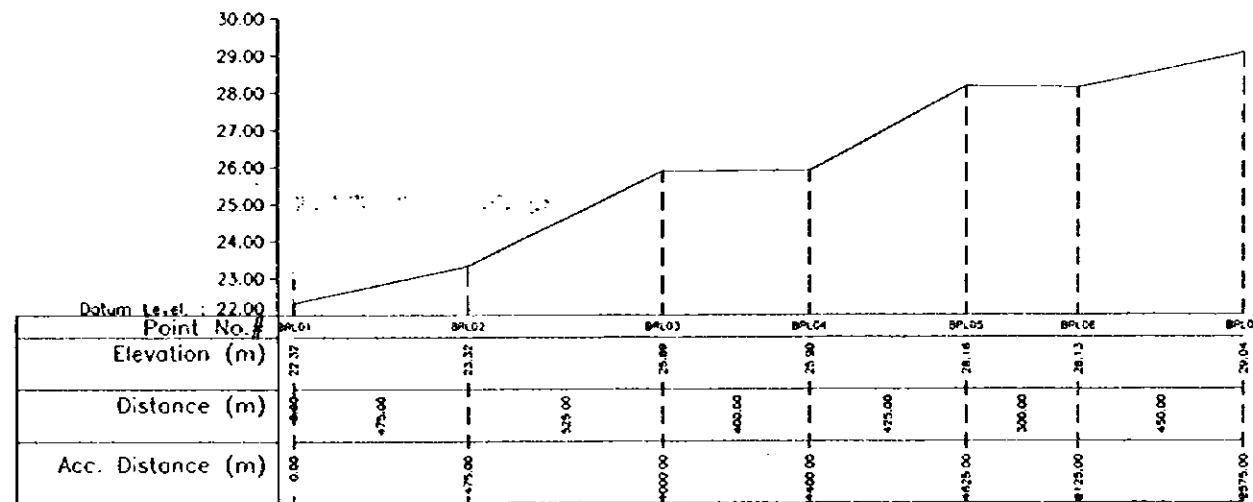
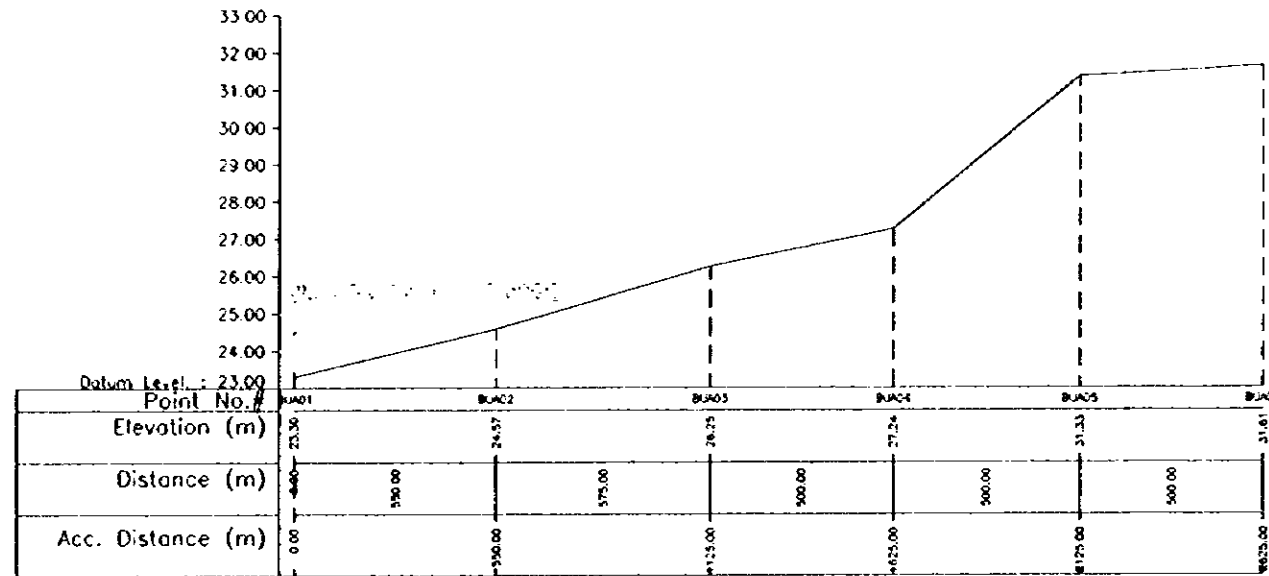
Name of River : **SUNTER RIVER** Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
Signature: [Signature]	Signature: [Signature]	Horizontal 1 : 500 Vertical 1 : 100	1 of 2

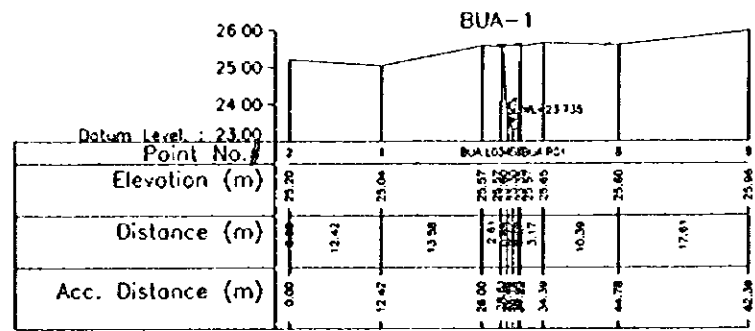
JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WILMAN & Associates** JAKARTA - INDONESIA



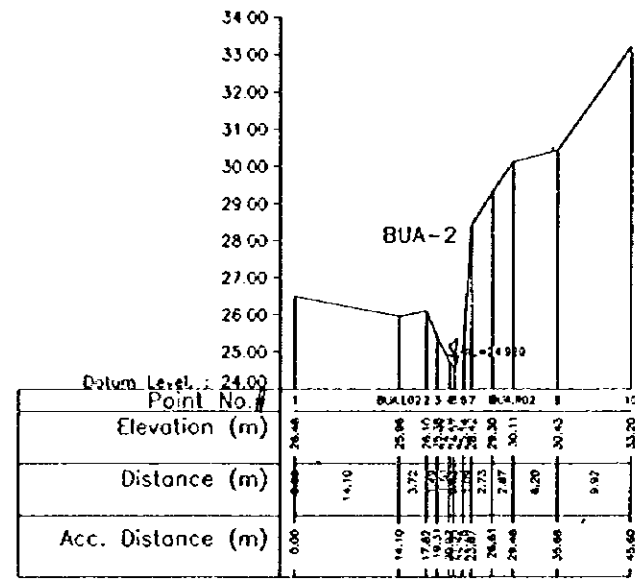
Reference Point			
The Elevation is referred to ITG 177 = 40.136 meters The correlation between silar system and ITG 177 ± 0 = ANP - 0.975 meters = FP ± meter			
		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
Name of River :		Drawing Title :	
SUNTER RIVER		CROSS SECTION	
Checked by	Approved by	Scale	Sheet No
Name : BAWONO SOECAPTO Signature : [Signature] Date : 17.11.95	Name : T. BAN Signature : [Signature] Date : 12.11.95	Horizontal 1 : 500 Vertical 1 : 100	2 of 2
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WIRATMAN & Associates JAKARTA - INDONESIA	



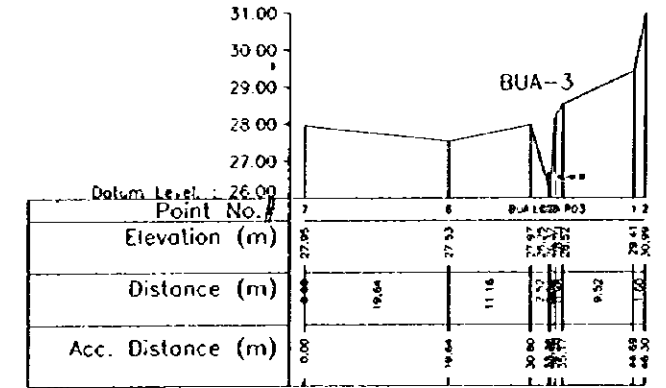
Reference Point: The Elevation is referred to TIG 177 = 40.136 meters The correlation between other system are: TIG 177 ± 0 = WRP - 0.975 meters = PP + ... meter			
MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
Name of River : BUARAN & JATIKRAMAT RIVERS		Drawing Title : LONGITUDINAL PROFILE	
Checked by	Approved by	Scale	Sheet No
Name: BIRCHD Signature: [Signature] Date: 26/1/95	Name: N. T. S. W. E. Signature: [Signature] Date: 26/1/95	Horizontal 1 : 10000 Vertical 1 : 100	1 of 1
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WIRATMAN & Associates JAKARTA - INDONESIA	



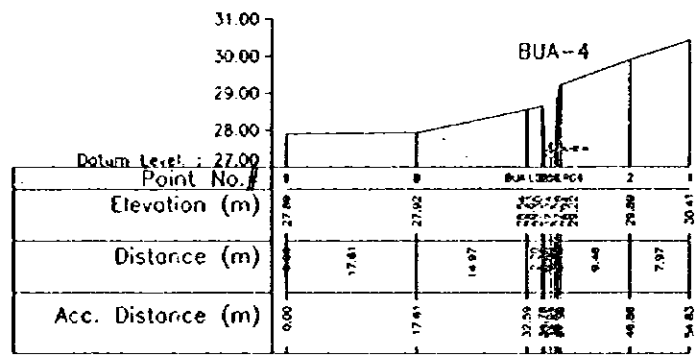
Date : Sept 4 1995



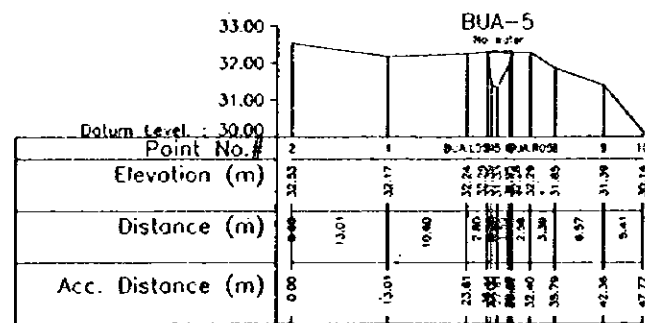
Date : Sept 4 1995



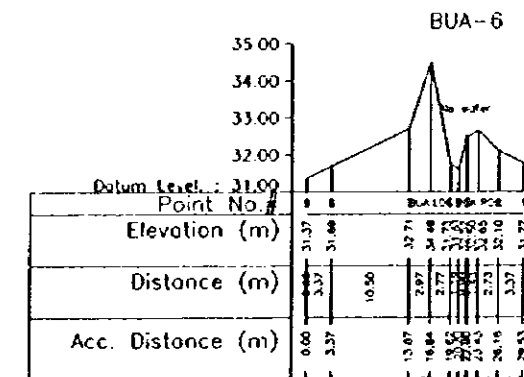
Date : Sept 4 1995



Date : Sept 4 1995



Date : Sept 4 1995



Date : Sept 4 1995

Reference Point :
 The Elevation is referred to TIG 177 = 43 436 meters
 The correlation between other system are
 TIG 177 ± 0 = NWP = 0.975 meters = PP ± . . . meter

(IN METERS)
 1 : 500

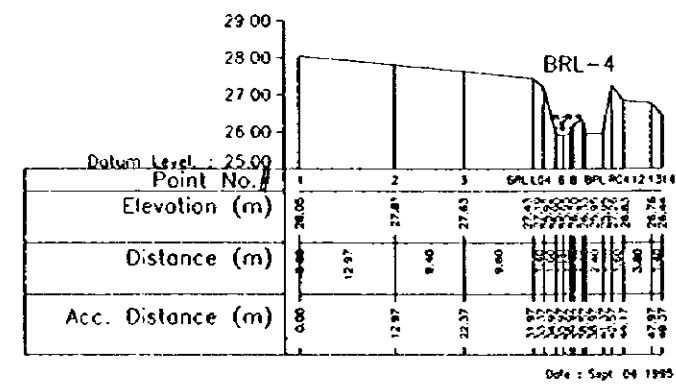
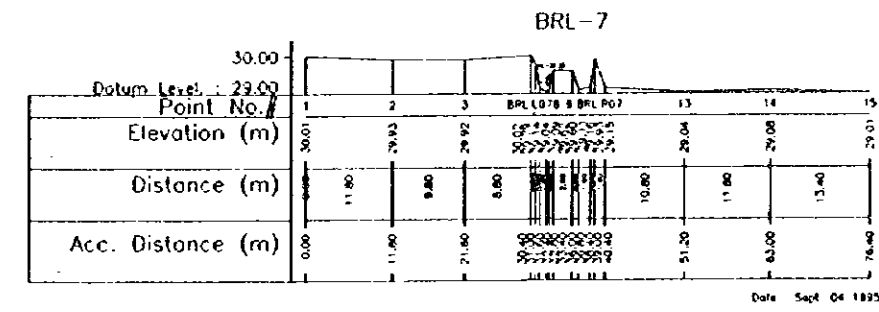
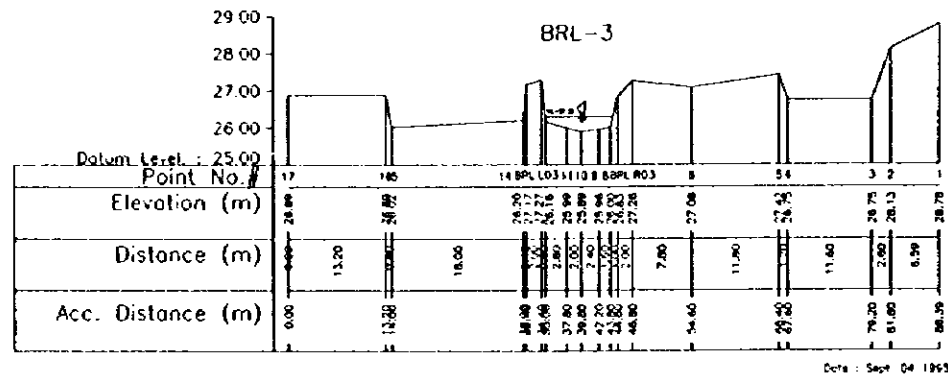
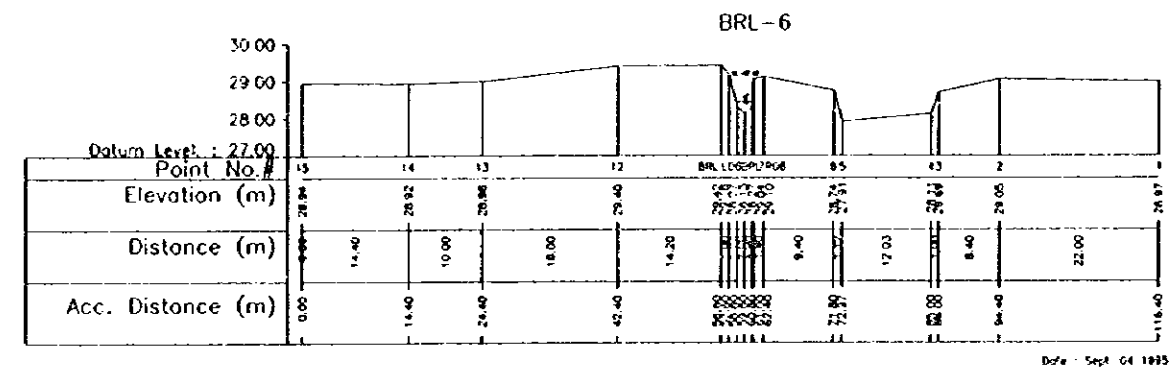
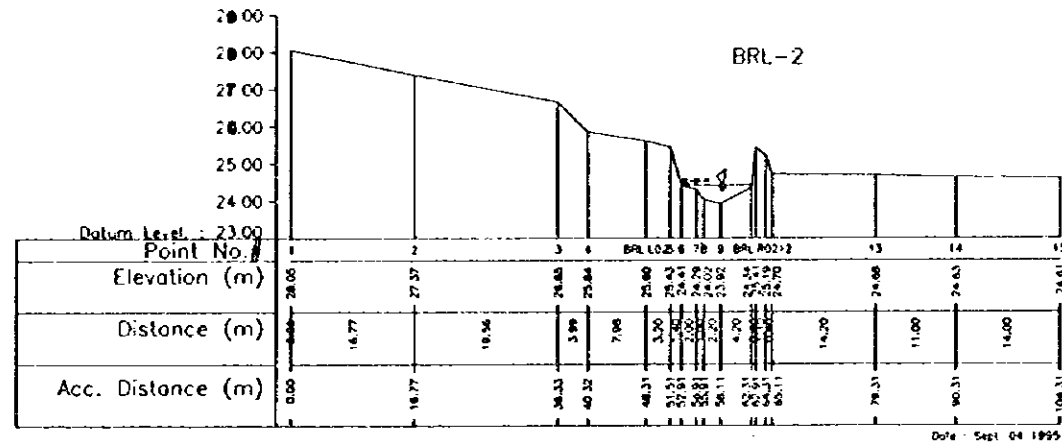
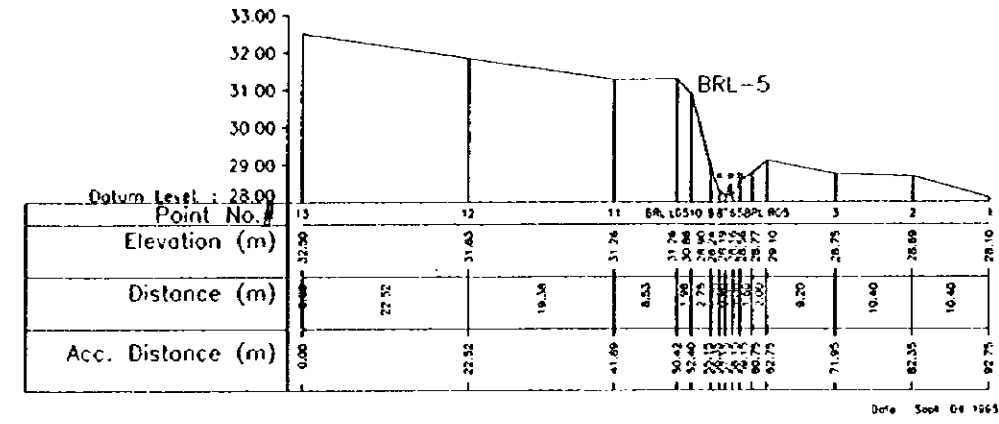
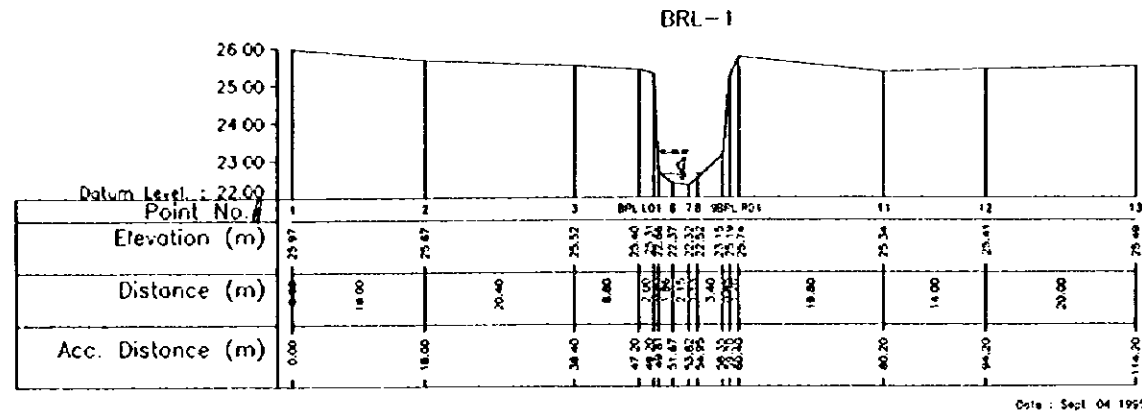
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
Name : BAWONO	Name : T. HAN	Horizontal : 1 : 500	1 of 1
Signature : [Signature]	Signature : [Signature]	Vertical : 1 : 100	
Date : 11.11.95	Date : 12.11.95		

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



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

(IN METERS)

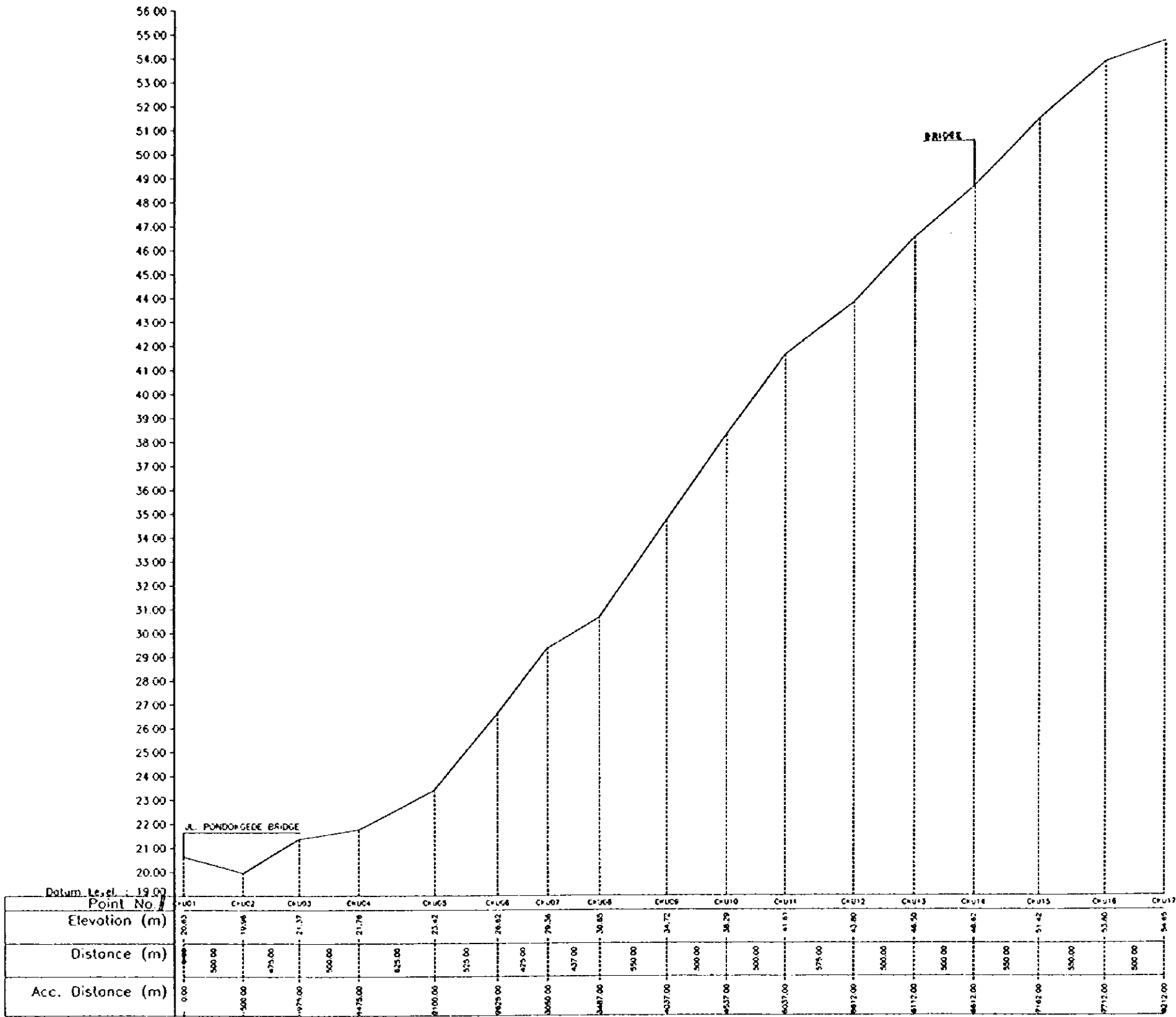
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MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : JATIKRAMAT RIVER		Drawing Title : CROSS SECTION	
Checked by :	Approved by :	Scale : Horizontal 1 : 500	Sheet No : 1 of 1
Signature :	Date : 18.11.95	Vertical : 1 : 100	

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 JAKARTA - INDONESIA



Reference Point :
 The Elevation is referred to TTG 177 = 43.156 meters
 The correlation between other system are :
 TTG 177 ± 0 = NWP - 0.975 meters = PP ± meter

(IN METERS)
 0 200 400
 1 : 20000
 No. = 1/20000

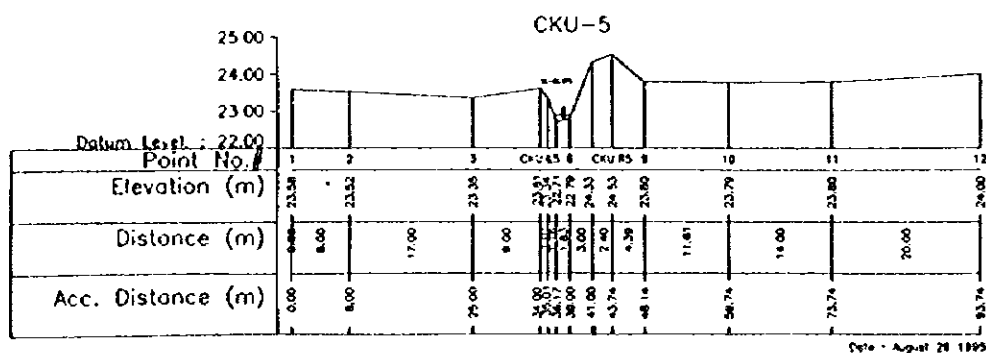
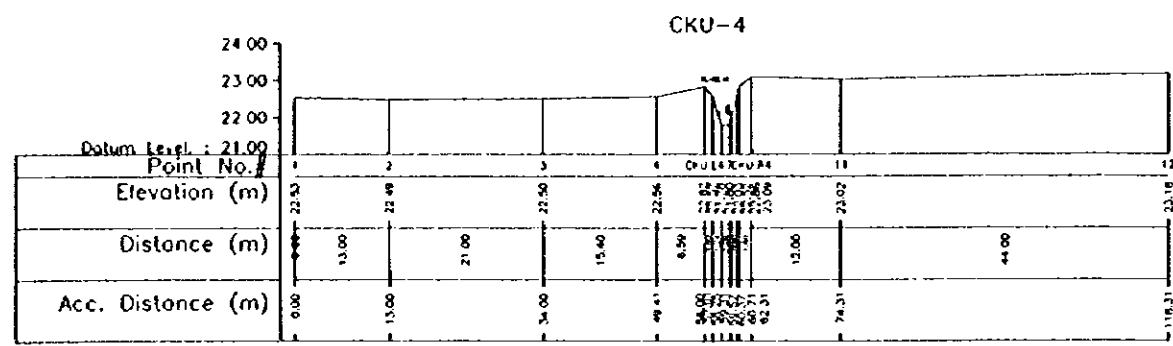
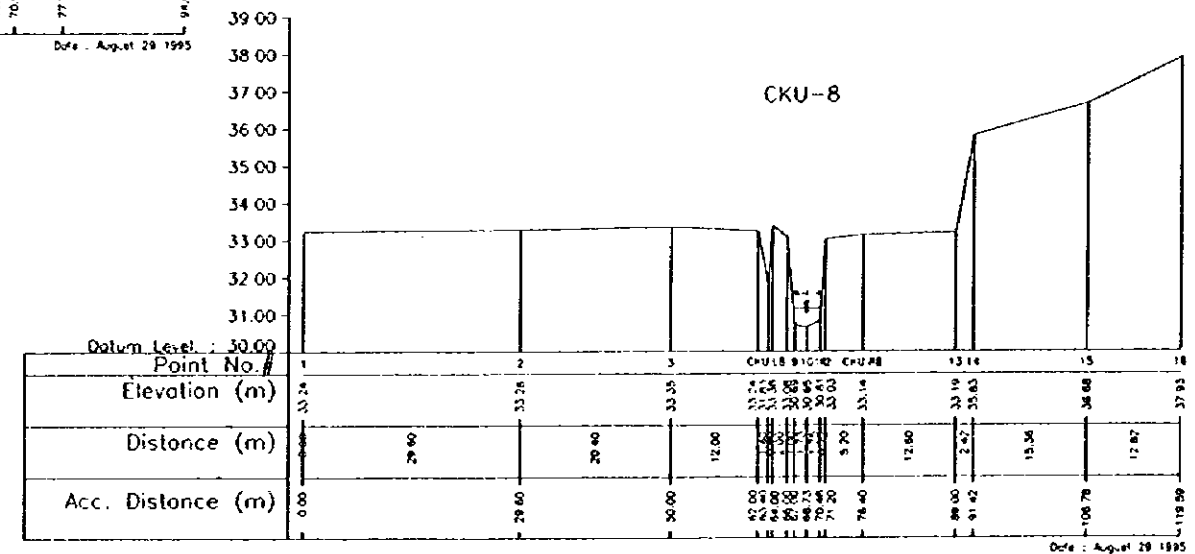
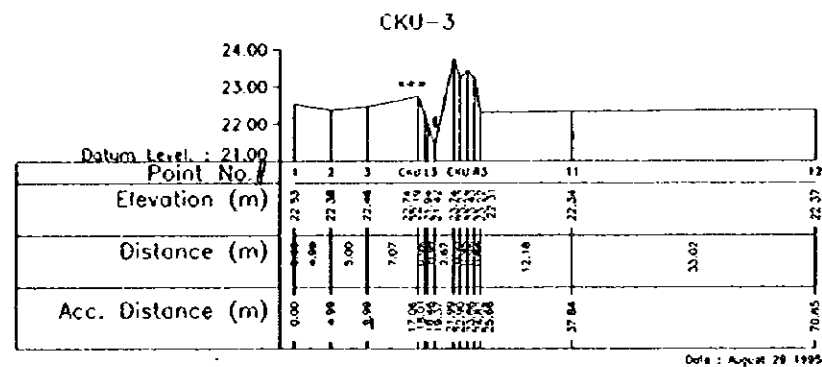
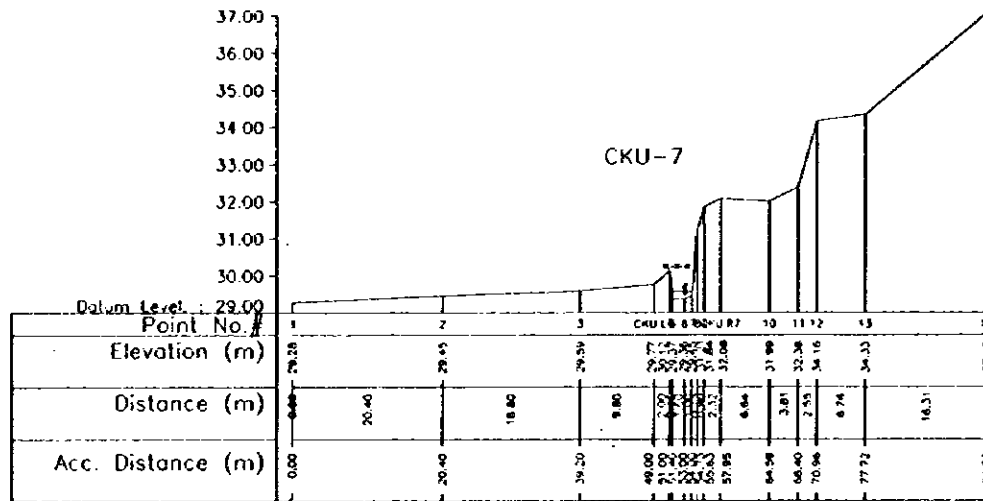
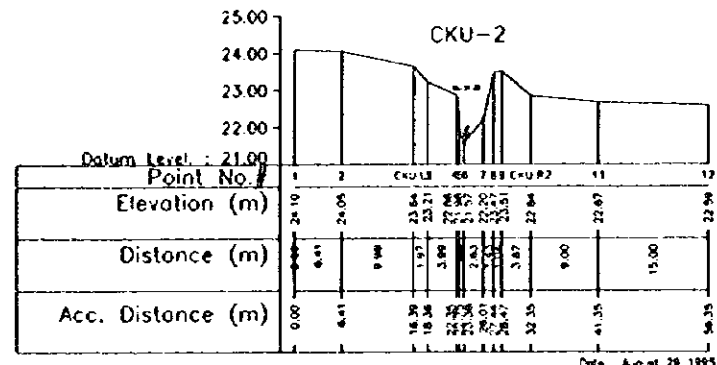
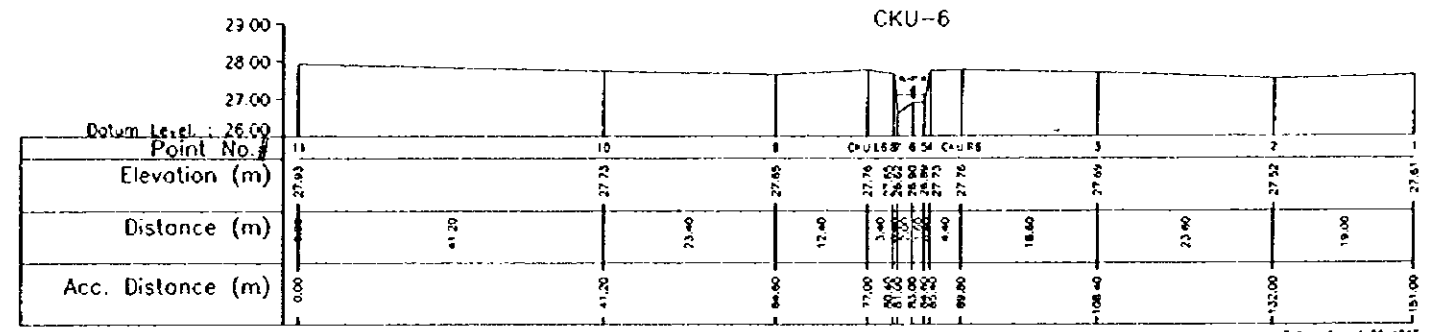
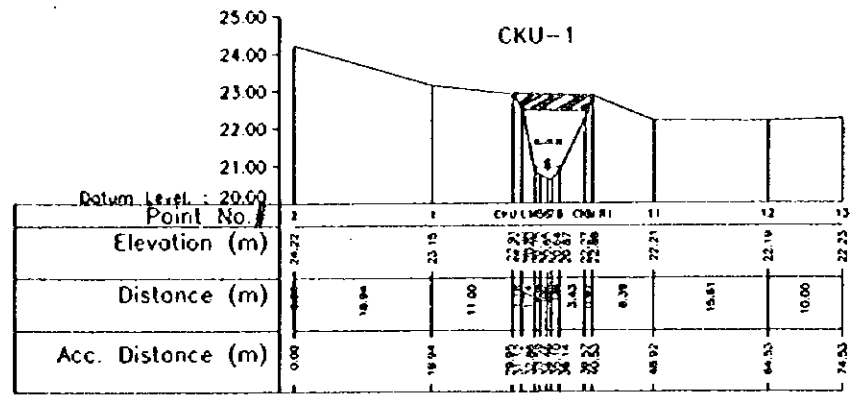
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
BRUNO SOESAPTO	R. TORANE	Horizontal 1 : 20000 Vertical 1 : 100	1 of 1

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



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

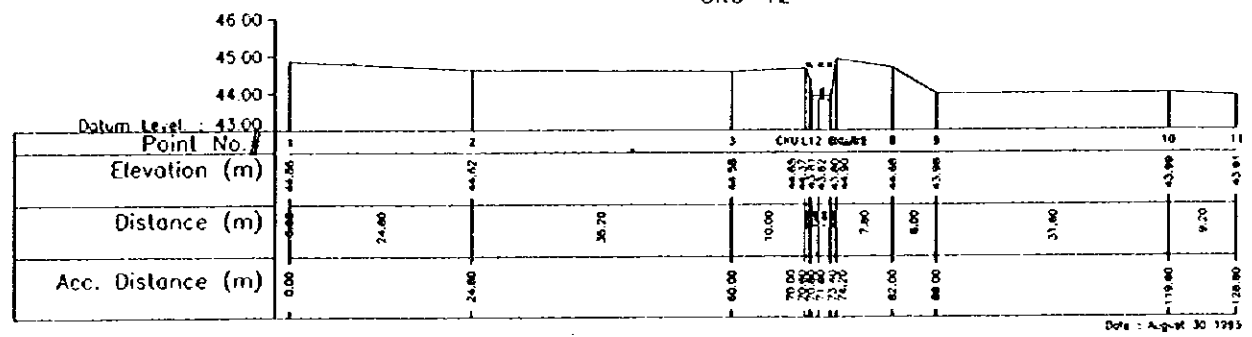
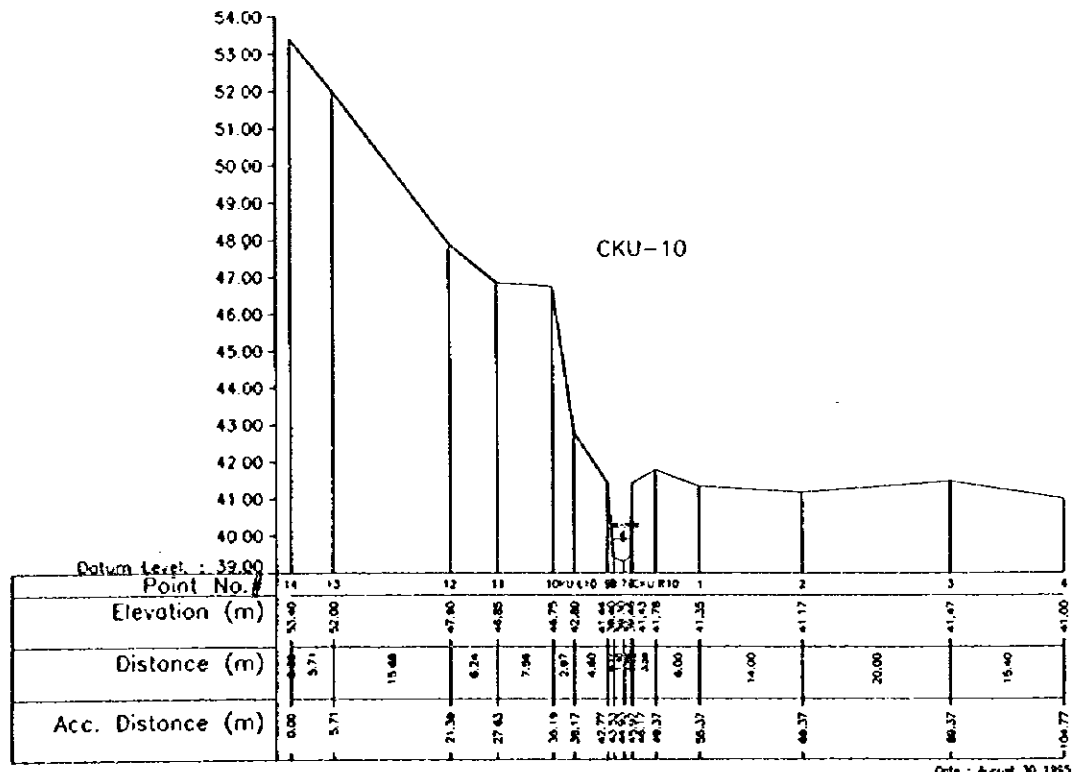
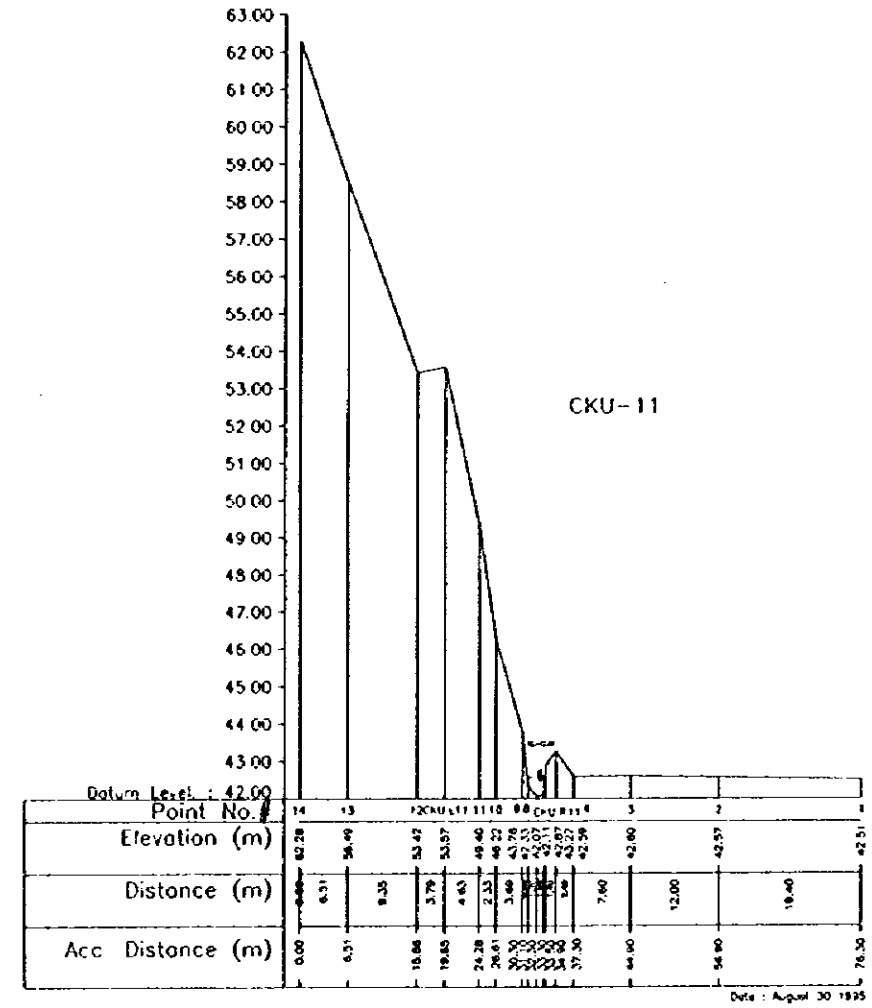
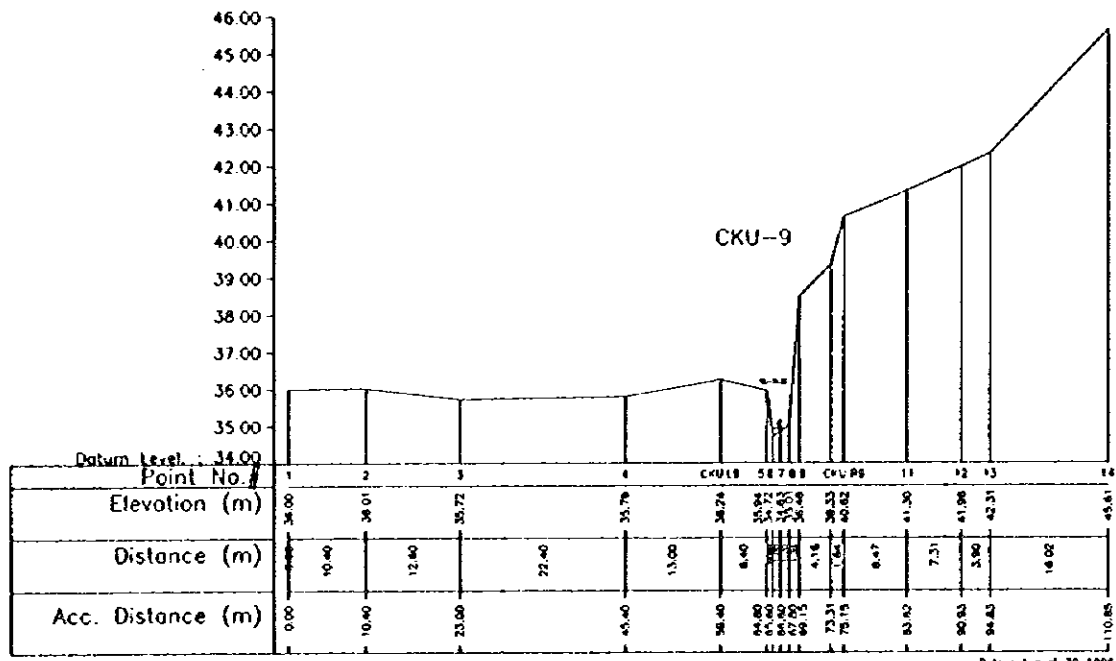
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
Signature: [Signature]	Signature: [Signature]	Horizontal 1 : 500	1 of 3
Date: 16.11.95	Date: 17.11.95	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 = NWP - 0.925 meters = PP + ... meters

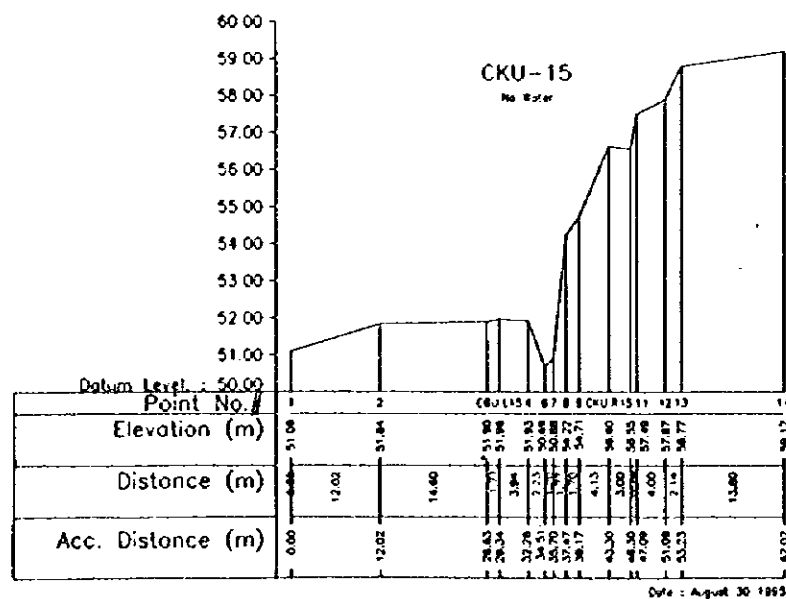
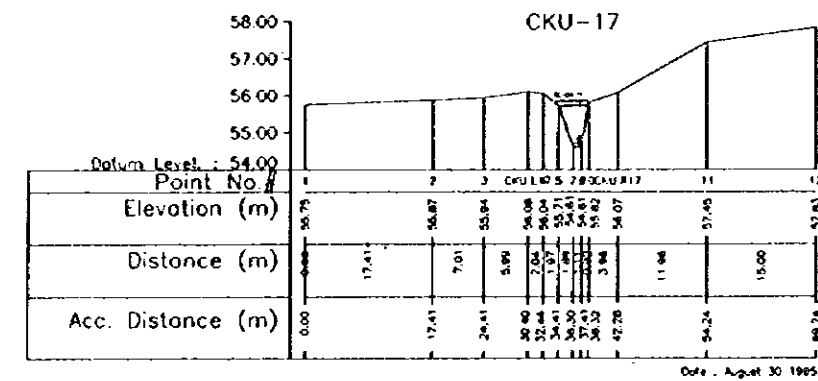
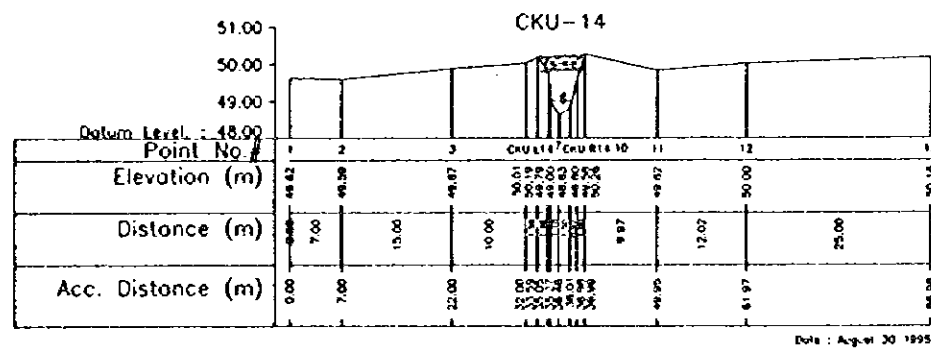
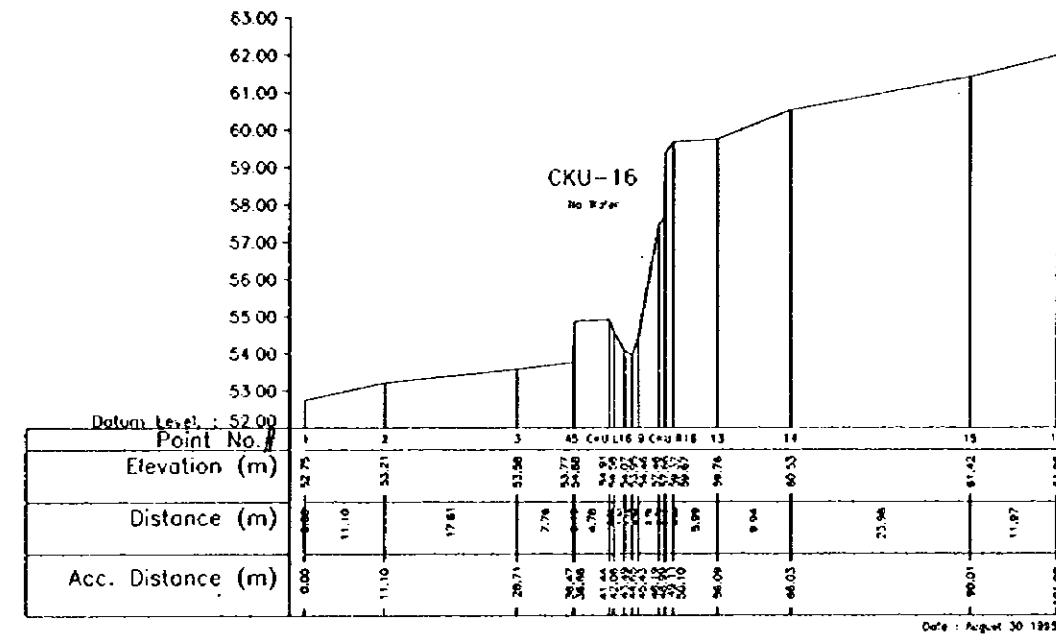
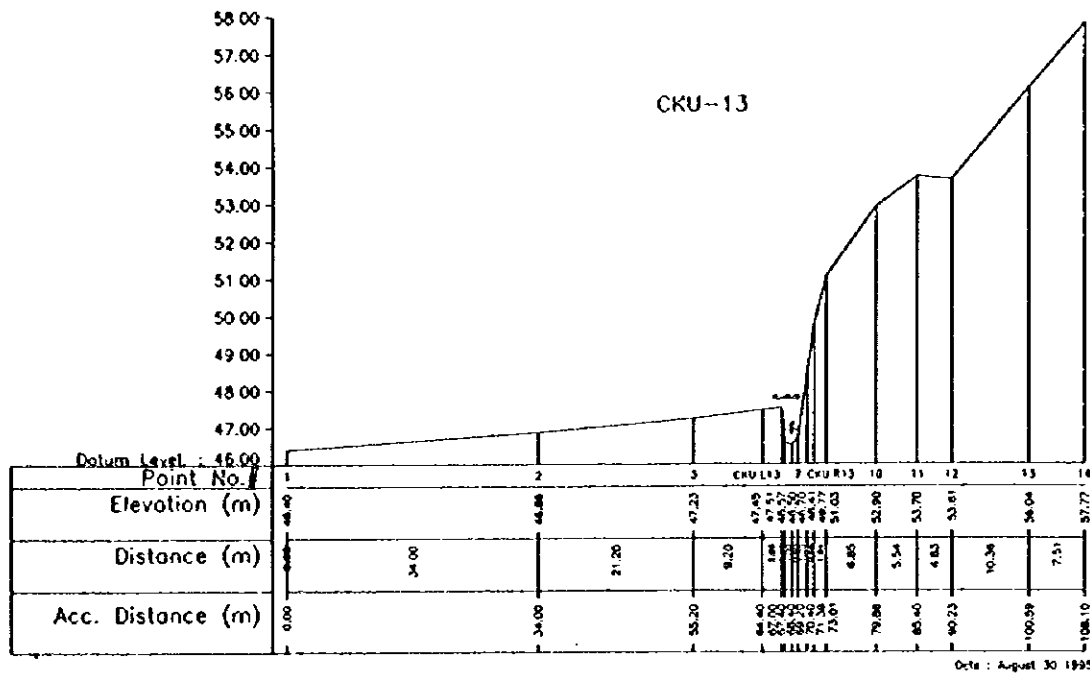
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
Name : B. BAWO / S. SUDARNO / I. HAN / K. TUBANE		Horizontal 1 : 500	2 of 3
Signature : [Signatures]		Vertical 1 : 100	
Date : 12.11.95 / 4.11.95 / 21.11.95			

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



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

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

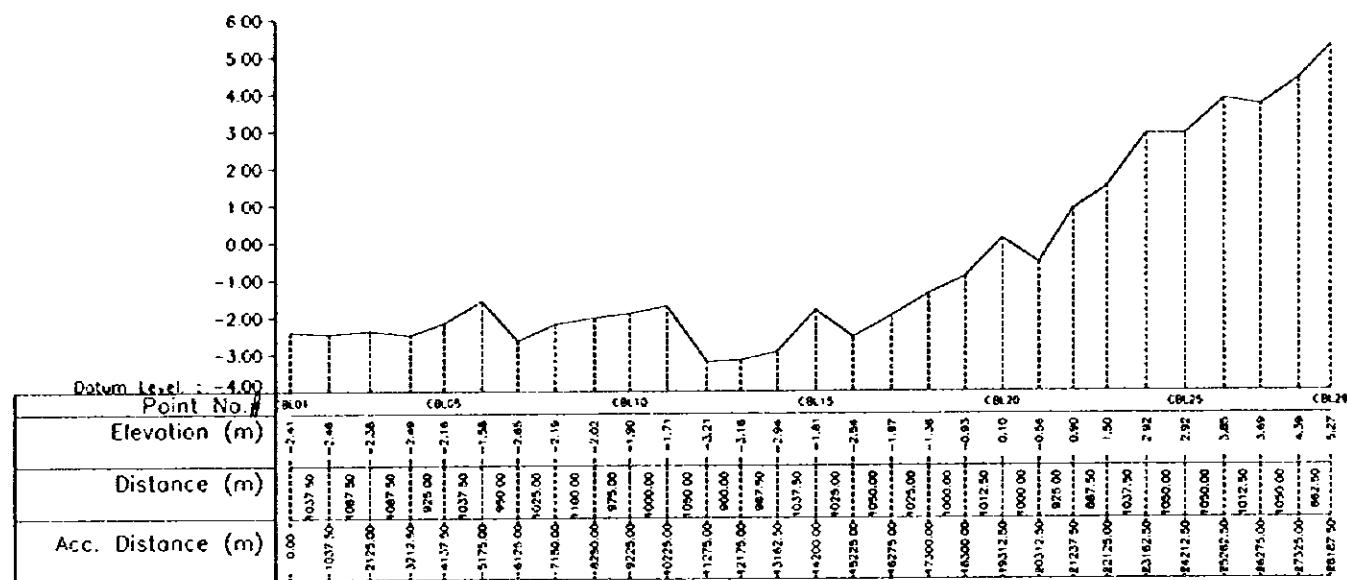
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by : <i>[Signature]</i>	Approved by : <i>[Signature]</i>	Scale	Sheet No
Name : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Horizontal 1 : 500	3 of 3
Date : 10/11/95	Date : 10/11/95	Vertical 1 : 100	

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

9 River Survey of CBL Floodway System
(CBL Floodway, Bekasi, Cileungsi, Cikeas, Cisadang, Cikarang and Cilemahabang Rivers)



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

(OF METERS)
 0 100 200 300
 1 : 100000

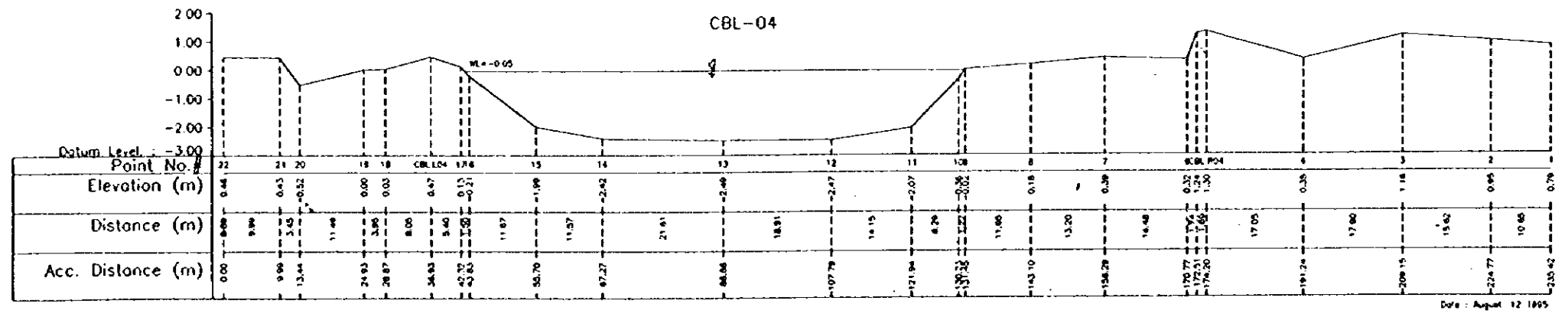
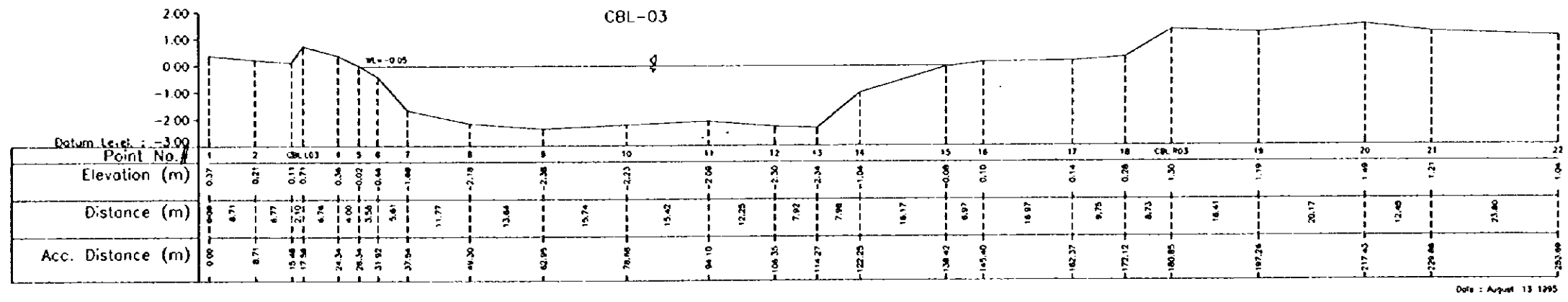
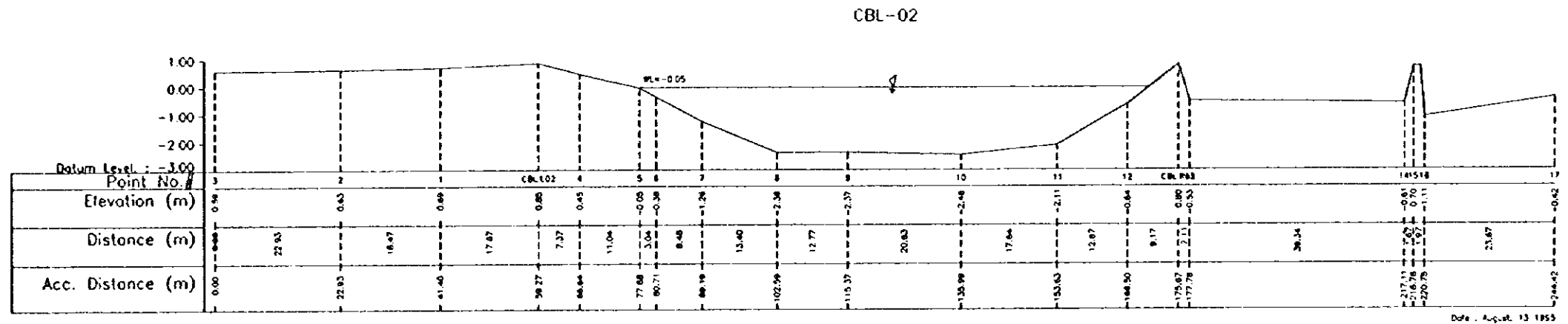
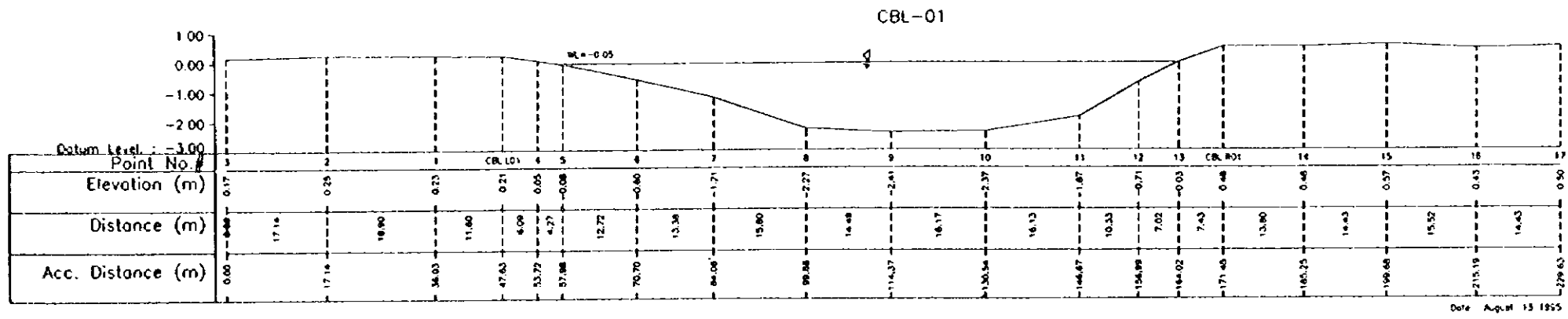
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CBL FLOODWAY** Drawing Title : **LONGITUDINAL PROFILE**

Checked by	Approved by	Scale	Sheet No
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Horizontal : 1 : 100000	1 of 1
Date : <i>[Date]</i>	Date : <i>[Date]</i>	Vertical : 1 : 100	

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



Reference Point:
 * The Elevation is referred to TTG 177 = 40.136 meters
 * The correlation between other system are:
 TTG 177 ± 0 = ANP = 0.975 meters = RP ± ... meter

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

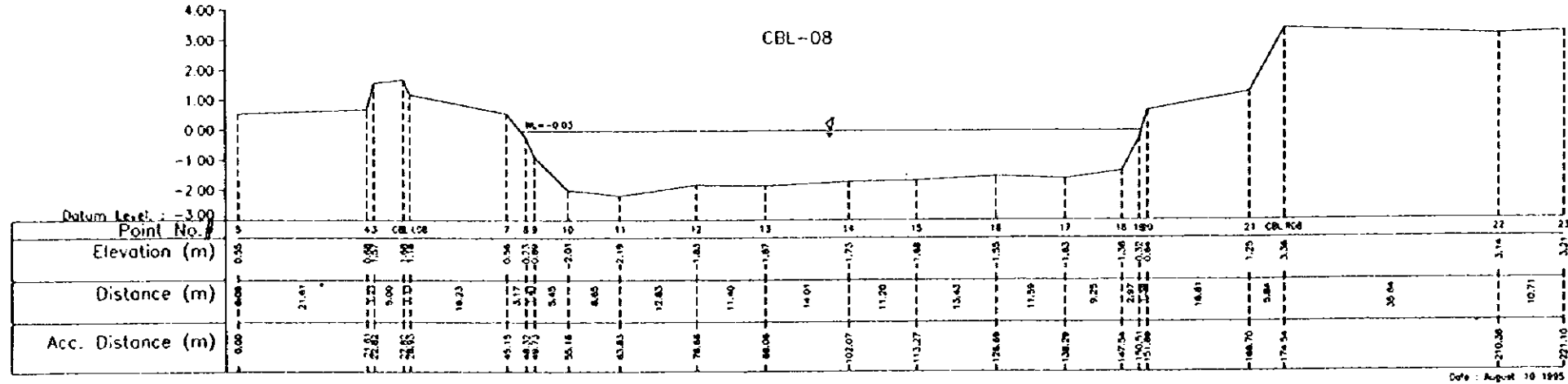
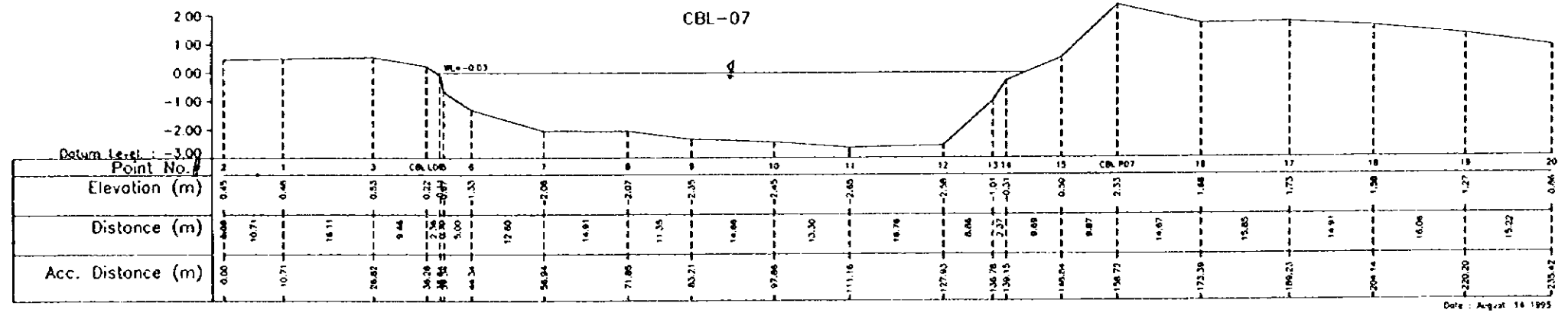
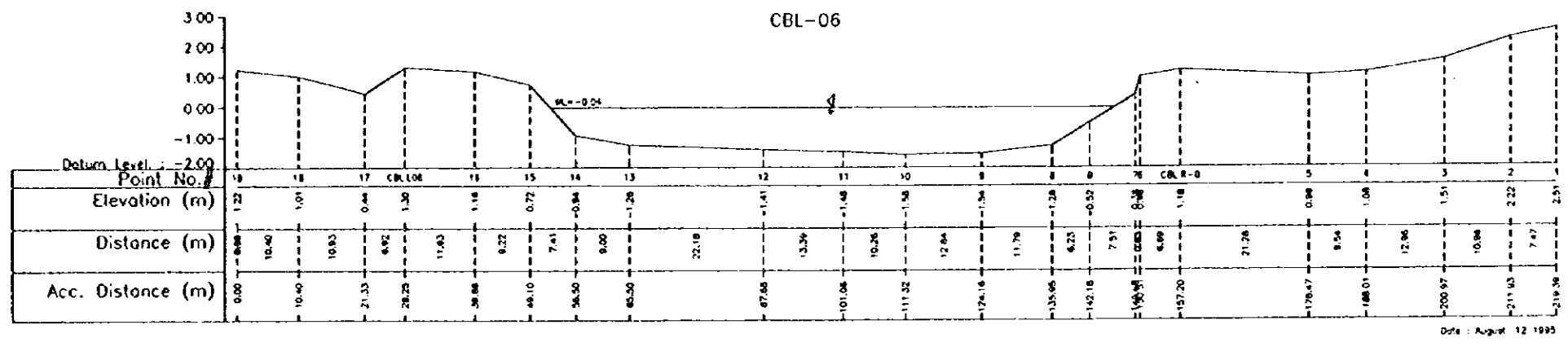
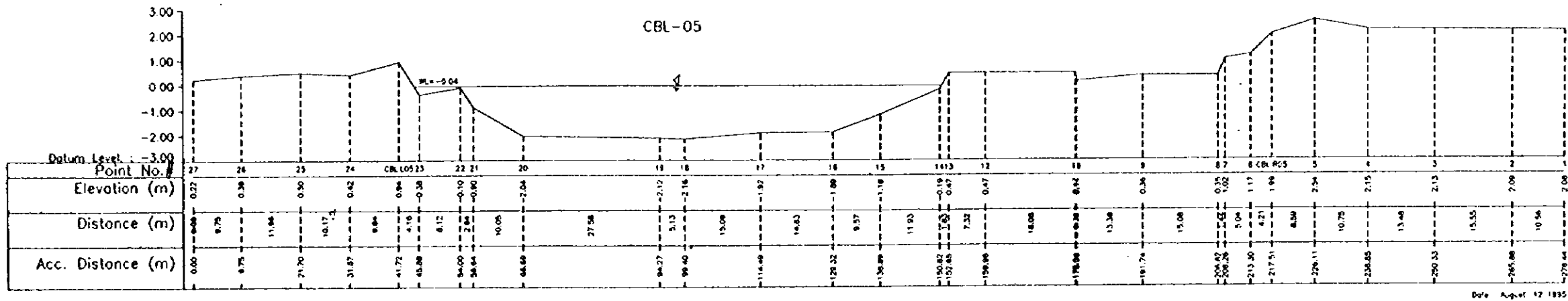
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

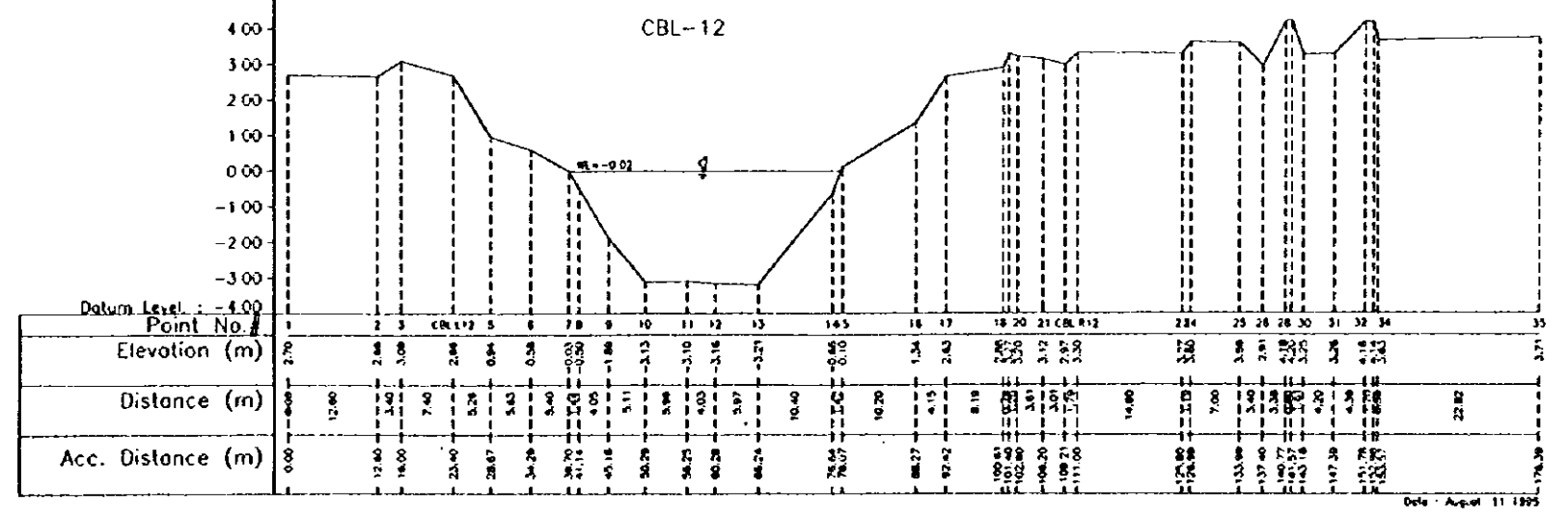
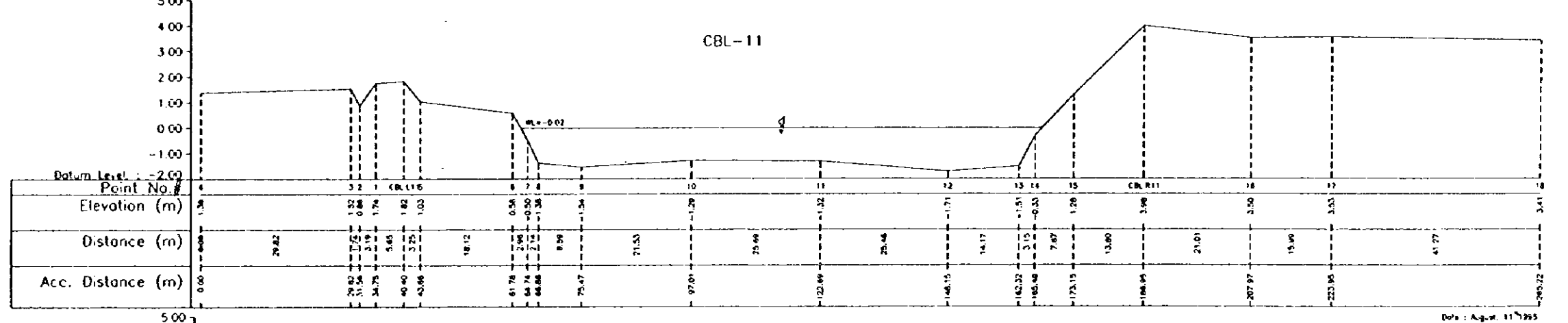
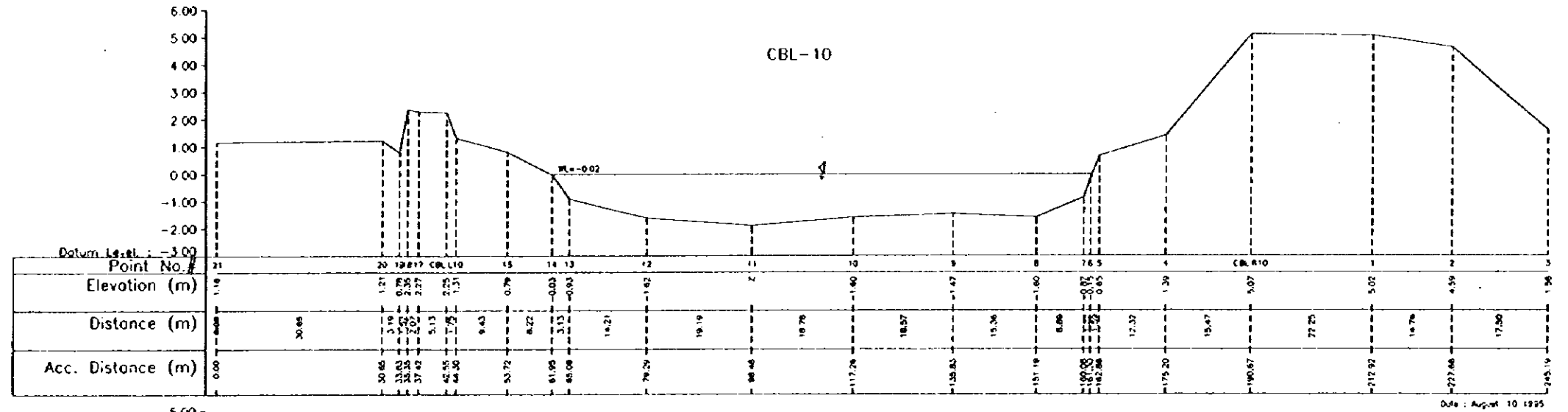
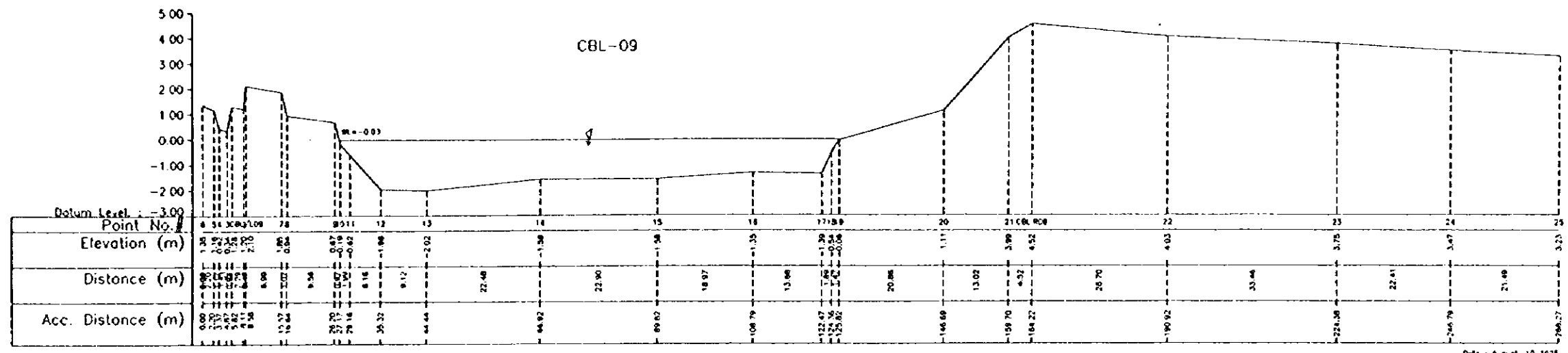
Name of River : **CBL FLOODWAY** Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No.
BRUNO	SUDARNO	Horizontal 1 : 500	1 of 8
Signature: [Signature]	Signature: [Signature]	Vertical 1 : 100	
Date: 10.11.95	Date: 19.11.95		

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Reference Point The Elevation is referred to TIC 177 = 40.136 meters The correlation between other system are TIC 177 ± 0 = BMP - 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 : CBL FLOODWAY		Drawing Title : CROSS SECTION	
Checked by : <i>[Signature]</i>		Approved by : <i>[Signature]</i>	
Scale : Horizontal 1 : 500		Sheet No : 2 of 8	
Date : 18.11.95		Date : 19.11.95	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		WHATMAN & Associates JAKARTA - INDONESIA	



Reference Point :
 The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are
 TIG 177 ± 0 = MWP - 0.815 meters = PP ± : meter

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 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

(IN METERS)

Scale = 1:500

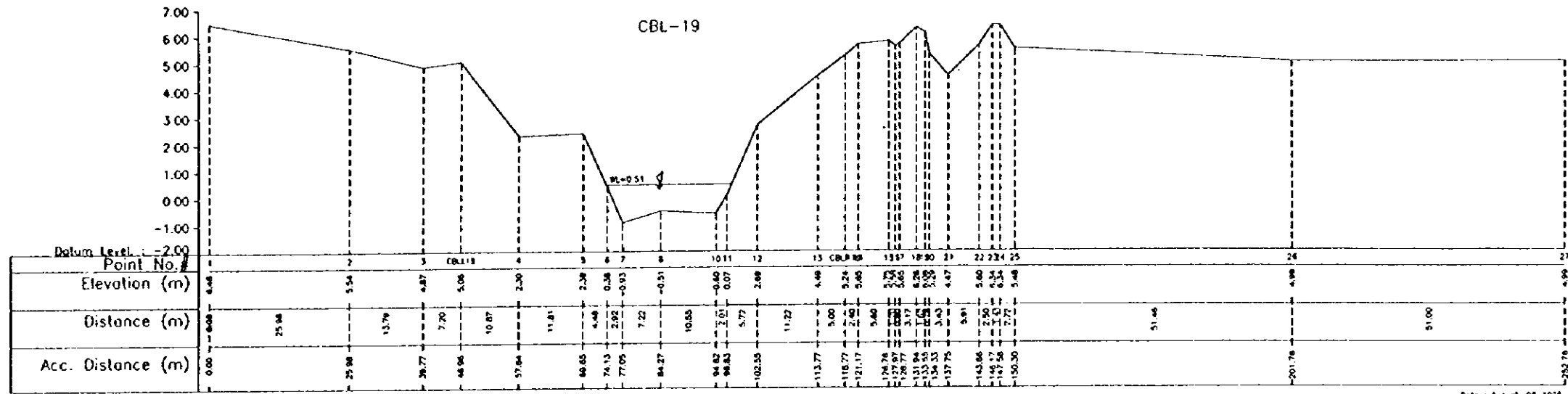
Name of River : **CBL FLOODWAY**

Drawing Title : **CROSS SECTION**

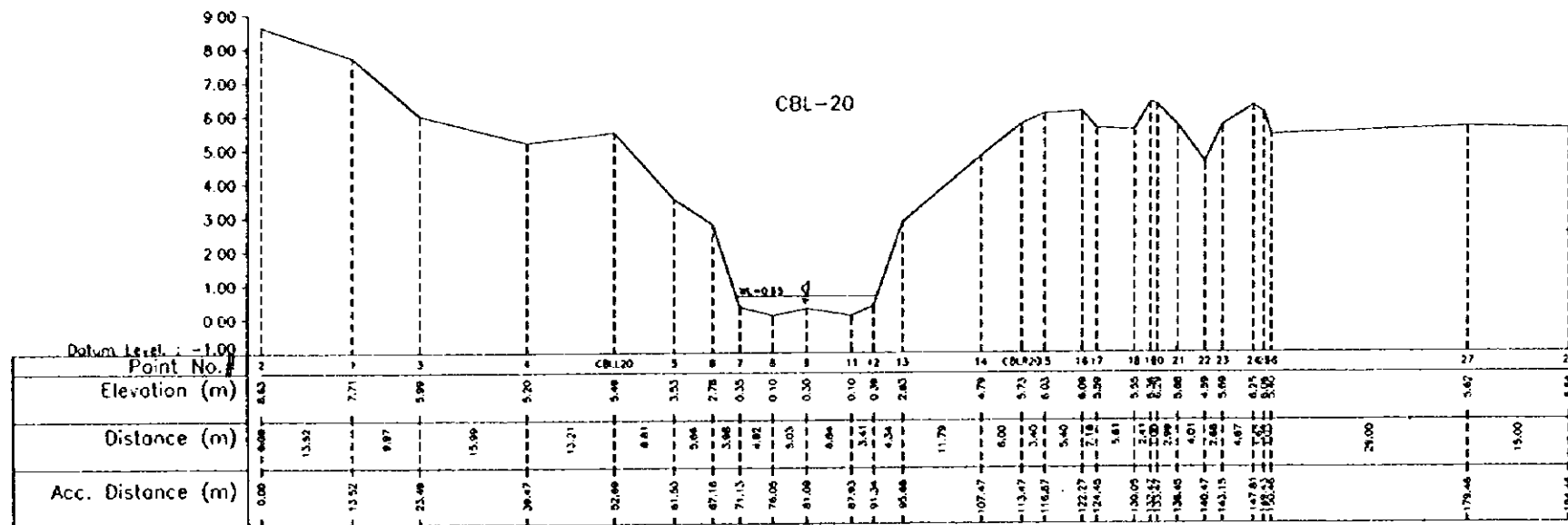
Checked by	Approved by	Scale	Sheet No
Name : B. PRONO	Name : R. SUPRIATNA	Horizontal 1 : 500	3 of 8
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Vertical 1 : 100	
Date : 10.11.95	Date : 27.12.95		

JICA JAPAN INTERNATIONAL
COOPERATION AGENCY

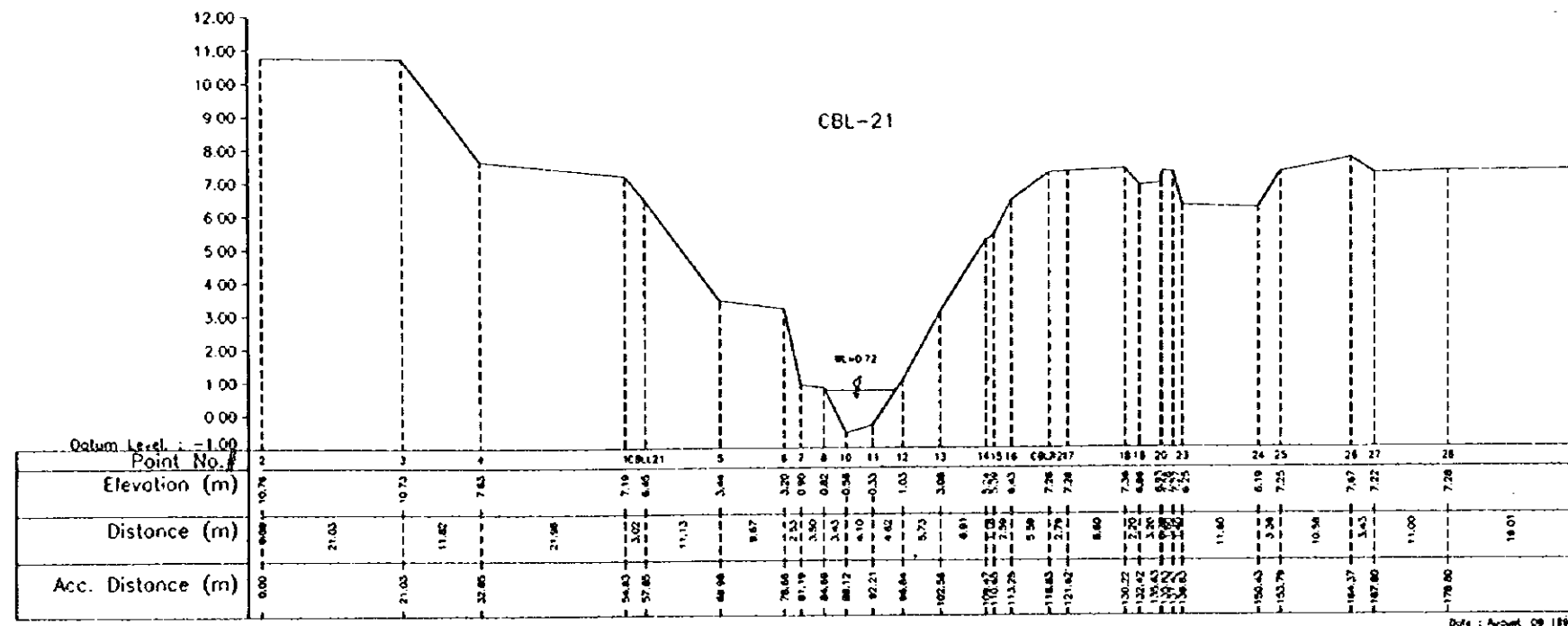
WIRATMAN & Associates
JAKARTA -- INDONESIA



Date: August 08 1995



Date: August 08 1995



Date: August 08 1995

Reference Point :
 The Elevation is referred to TIG 177 = 40.436 meters
 The correlation between other system are
 TIG 177 ± 0 = KRP - 0.975 meters = PP + . . . meter

(IN METERS)
 1 : 500

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DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

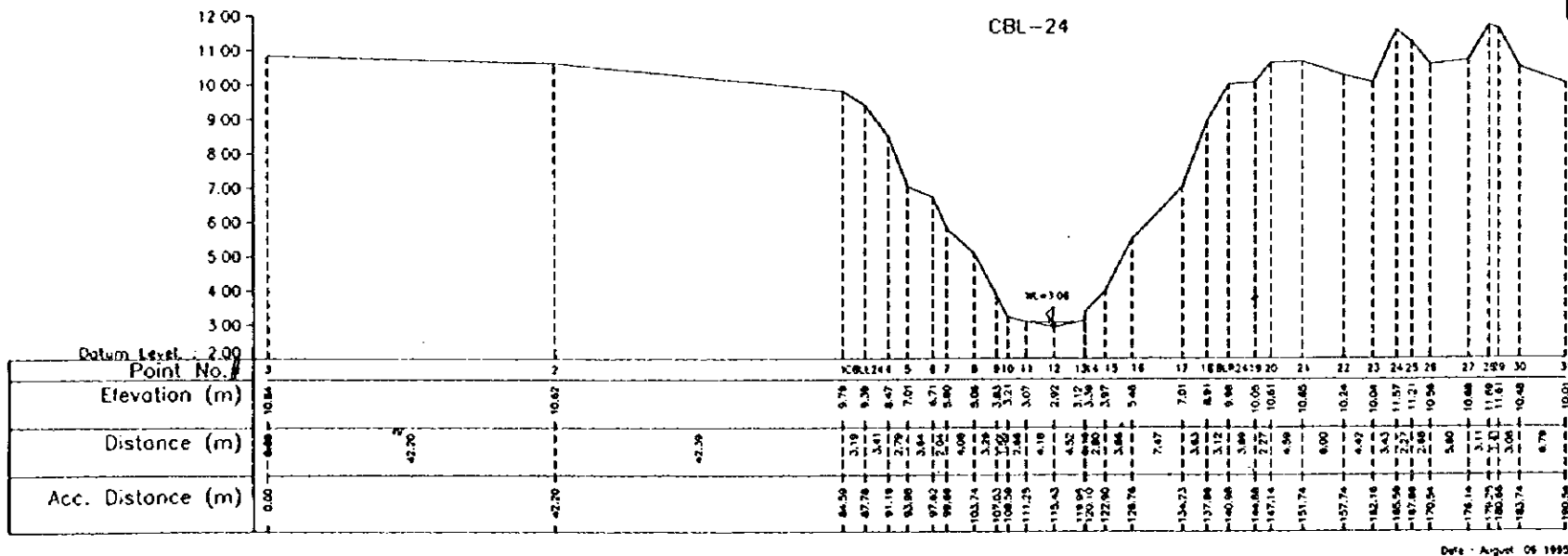
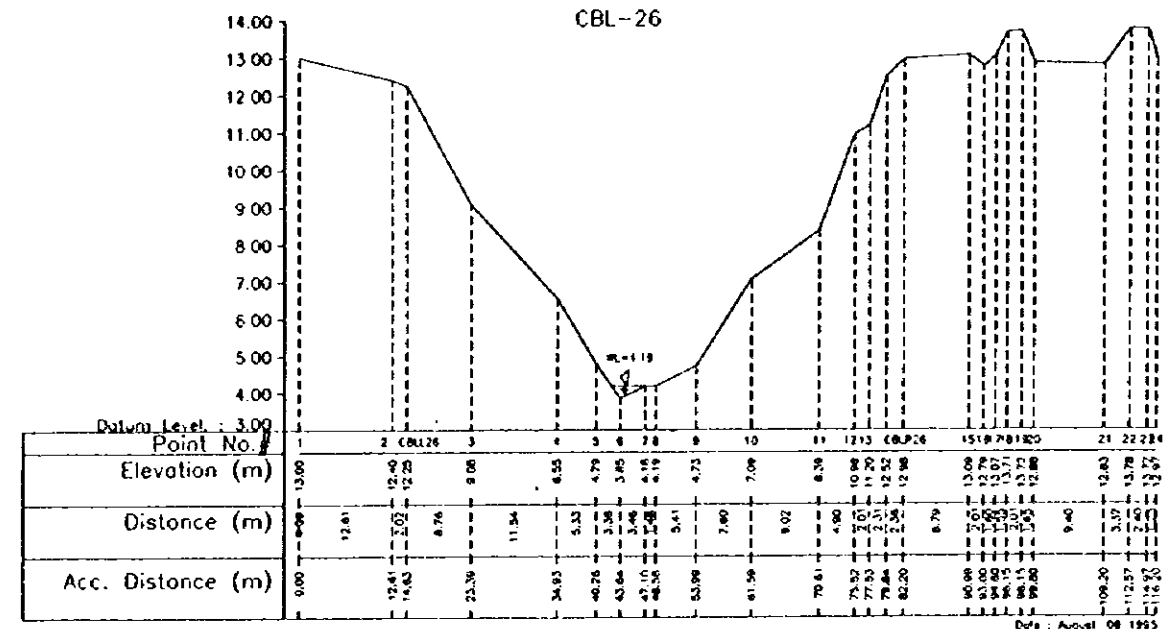
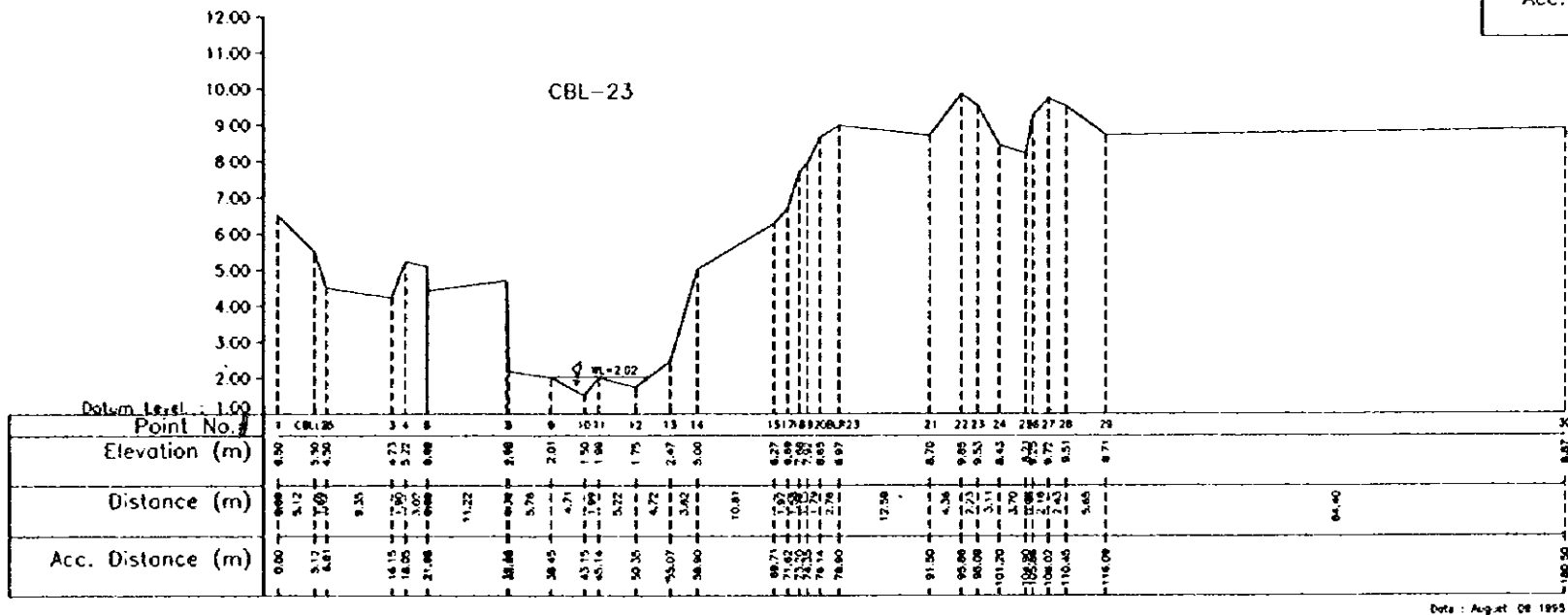
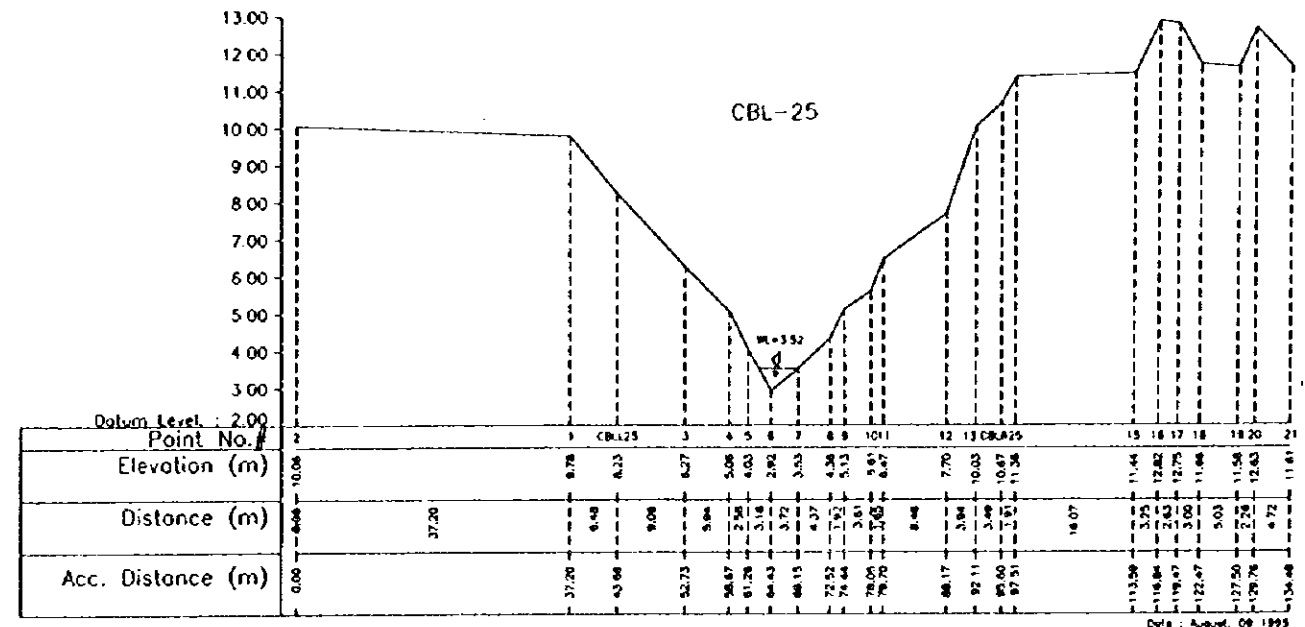
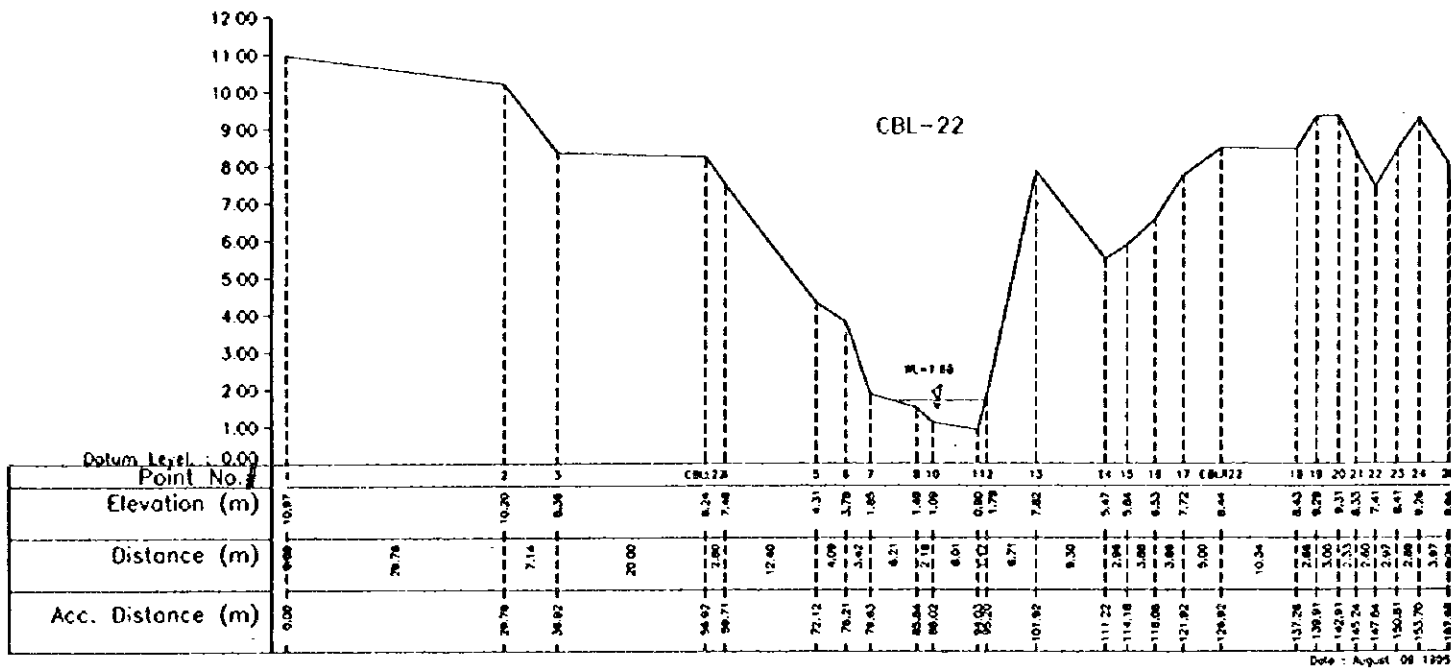
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : **CBL FLOODWAY** Drawing Title : **CROSS SECTION**

Checked By	Approved By	Scale	Sheet No
BAMBHO	T. MUR	Horizontal 1 : 500	5 of 8
SOGARTO	R. TOFWME	Vertical 1 : 100	

Signature : *[Handwritten]*
 Date : 11.11.95

JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WHATMAN & 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

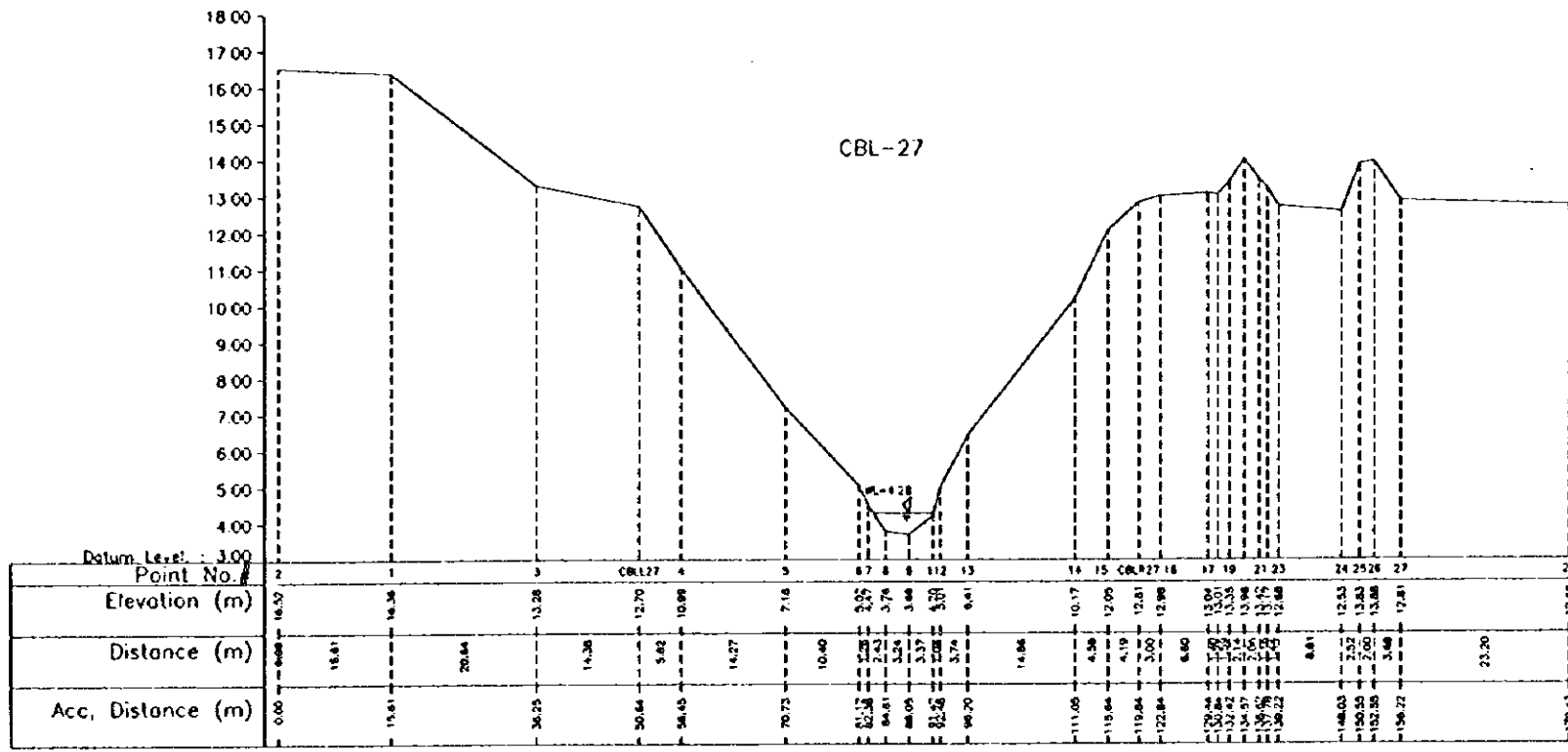
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

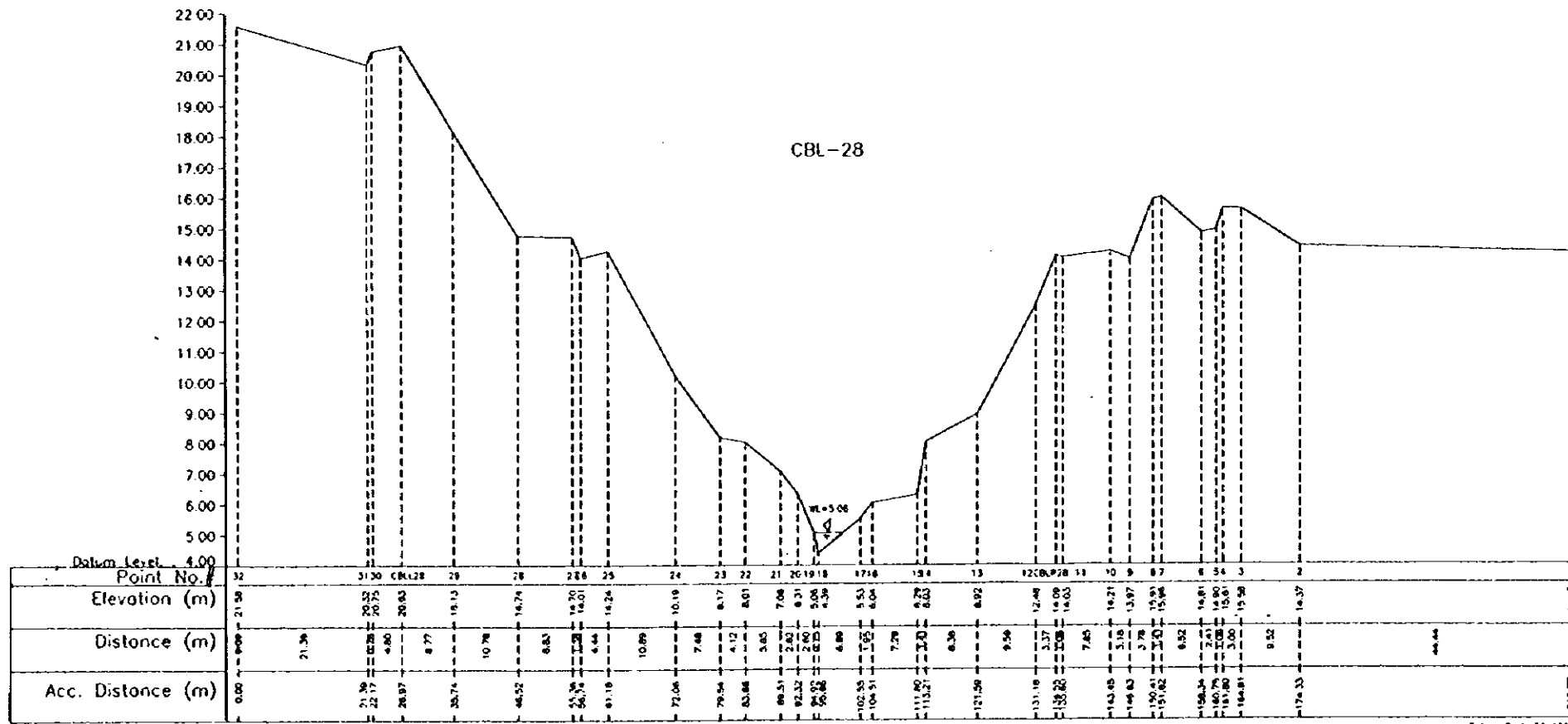
Name of River: CBL FLOODWAY
Drawing Title: CROSS SECTION

Checked by: [Signature] Approved by: [Signature]
Scale: Horizontal 1:500, Vertical 1:100
Sheet No: 6 of 8

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WILMANN & Associates
JAKARTA - INDONESIA



Date: Sept 08 1995



Date: Sept 08 1995

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

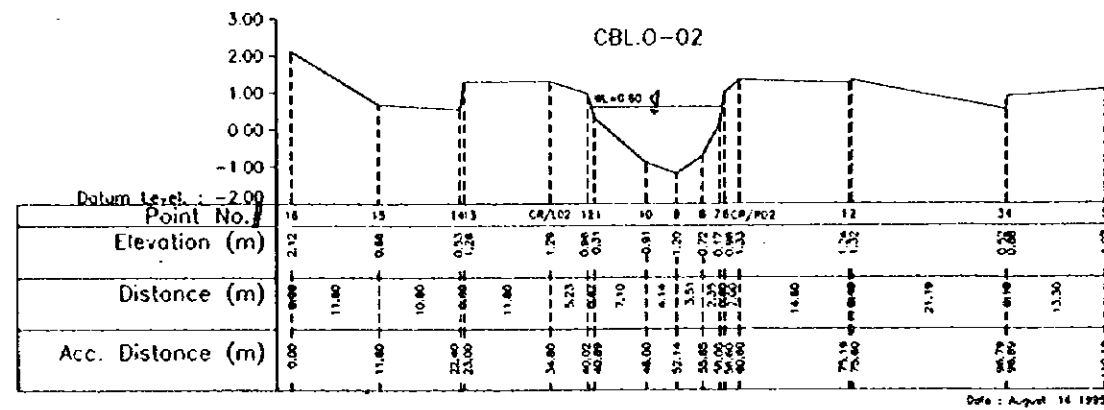
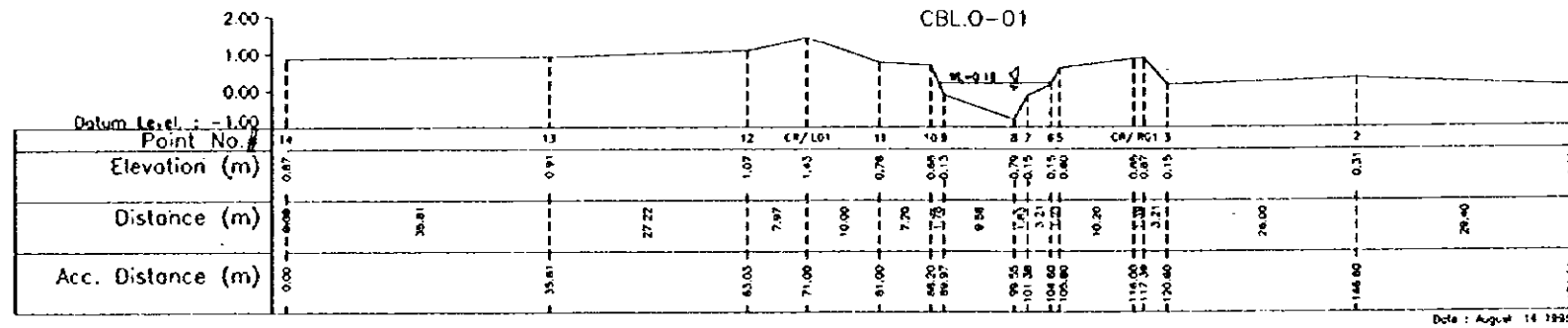
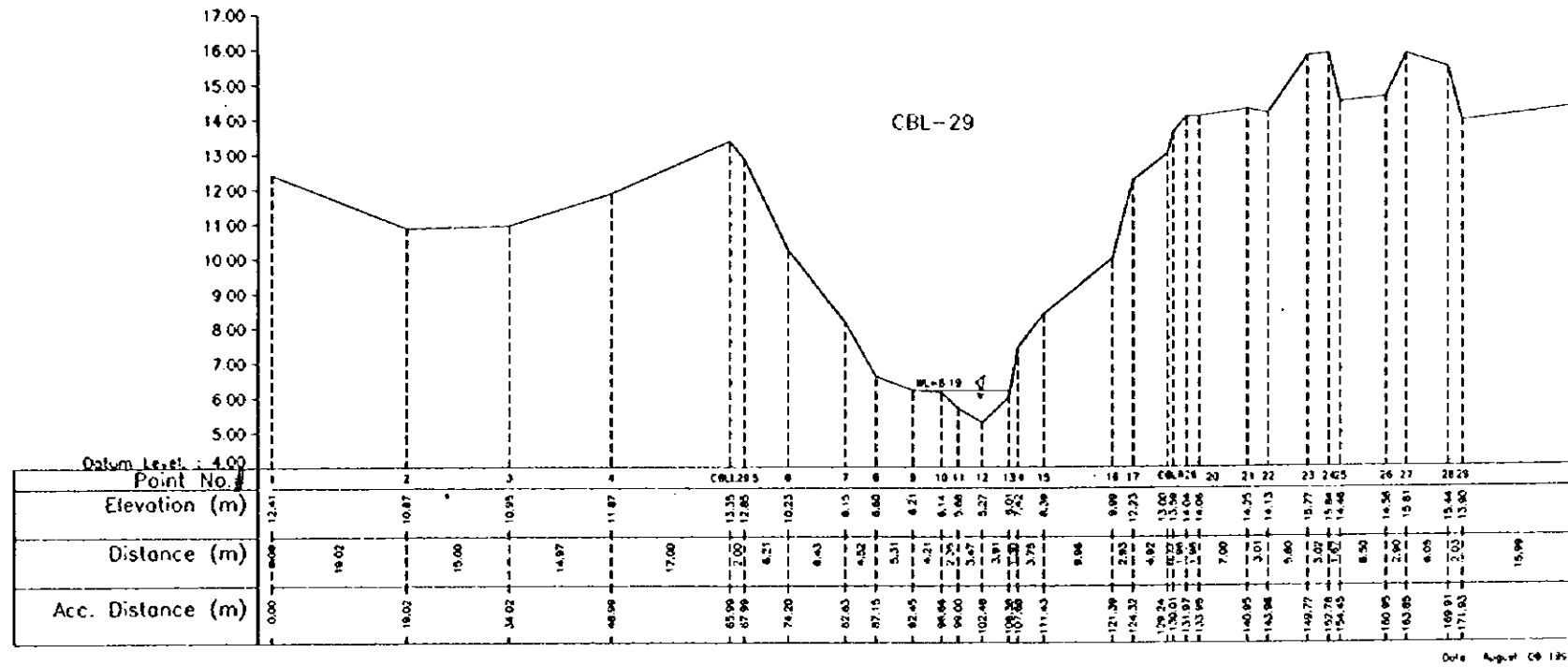
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CBL FLOODWAY
 Drawing Title : CROSS SECTION

Checked by	Approved by	Scale	Sheet No
BIRMO Signature: [Signature] Date: 18/09/95	T. MAN Signature: [Signature] Date: 17/09/95	Horizontal 1 : 500 Vertical 1 : 100	7 of 8

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
 WIRATMAN & Associates
 JAKARTA - INDONESIA



Reference Point:
The Elevation is referred to ITG 177 = 42.138 meters
The correlation between other system are:
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(IN METERS)

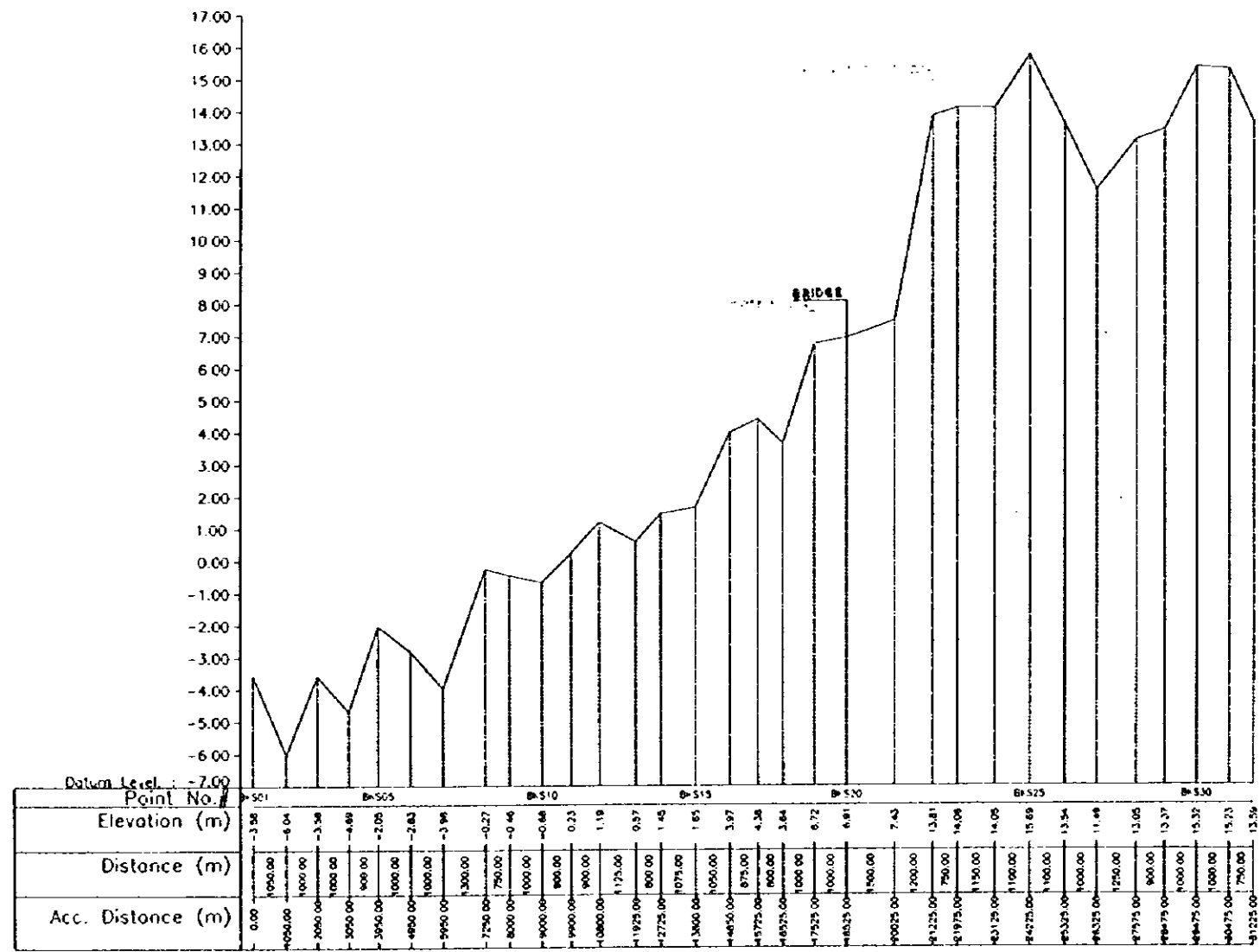
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CBL FLOODWAY
Drawing Title : CROSS SECTION

Checked by	Approved by	Scale	Sheet No.
B. BACHO	S. EDIARTO	Horizontal 1 : 500	8 of 8
Signature	Signature	Vertical 1 : 100	
Date: 08.11.95	Date: 09.11.95		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WIRATMAN & Associates
JAKARTA - INDONESIA



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

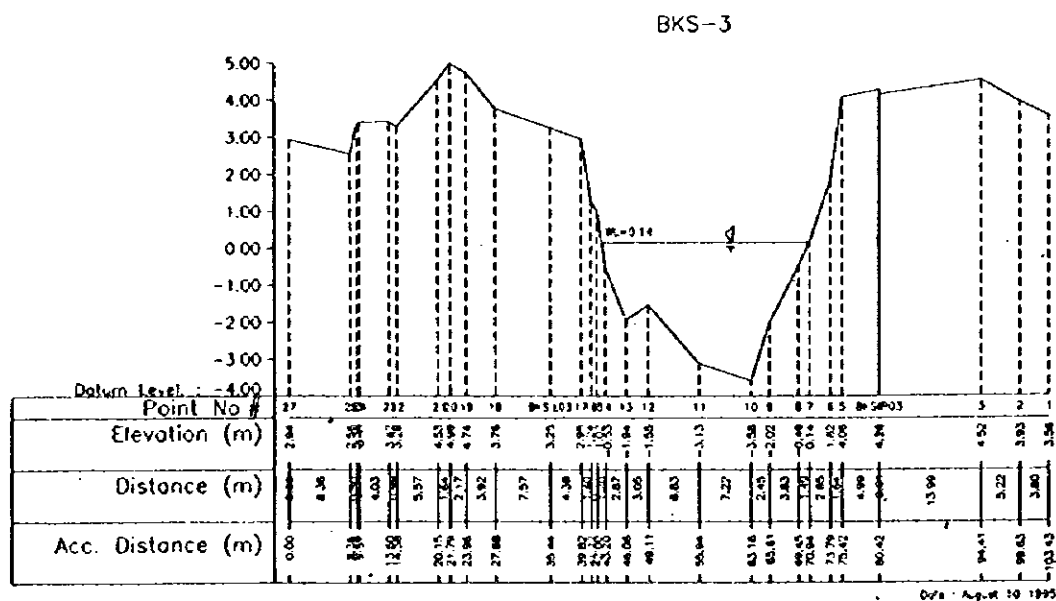
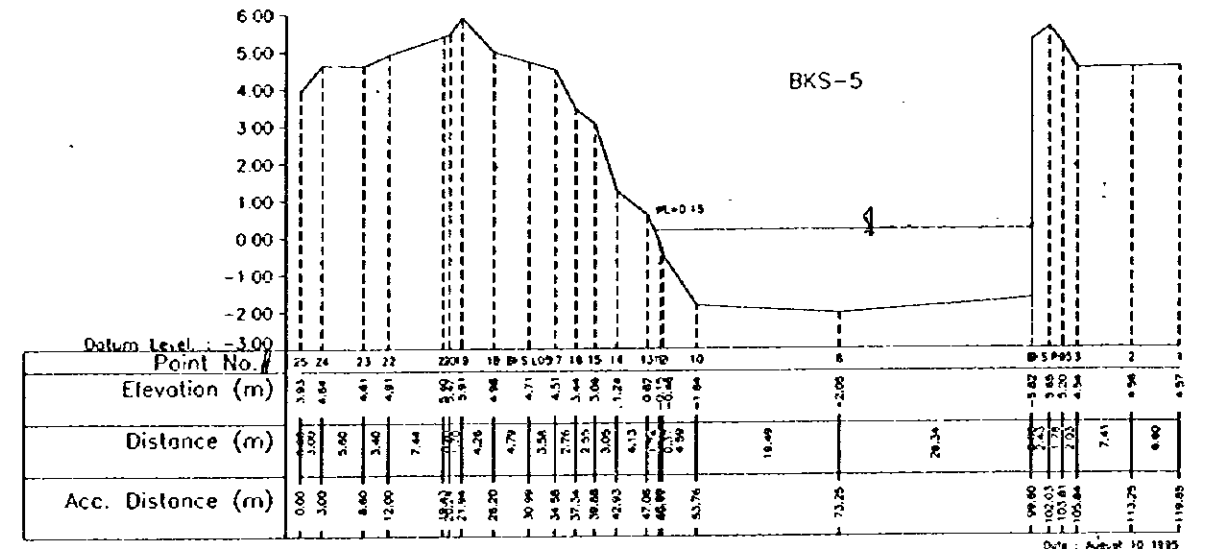
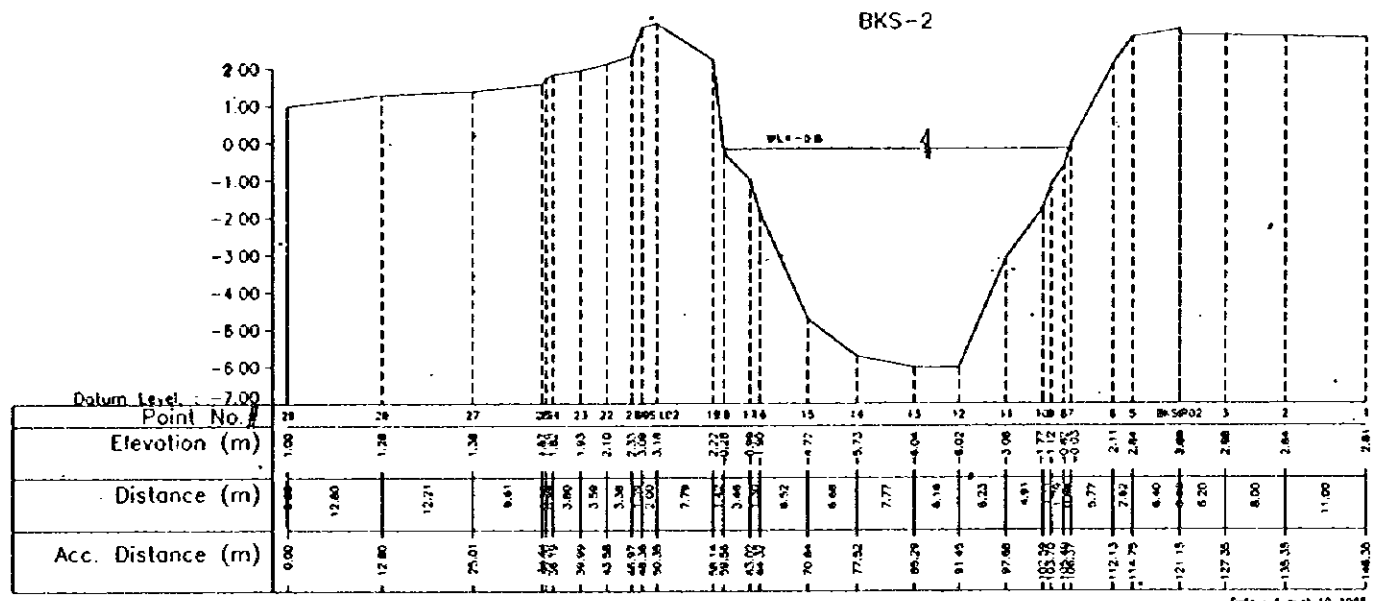
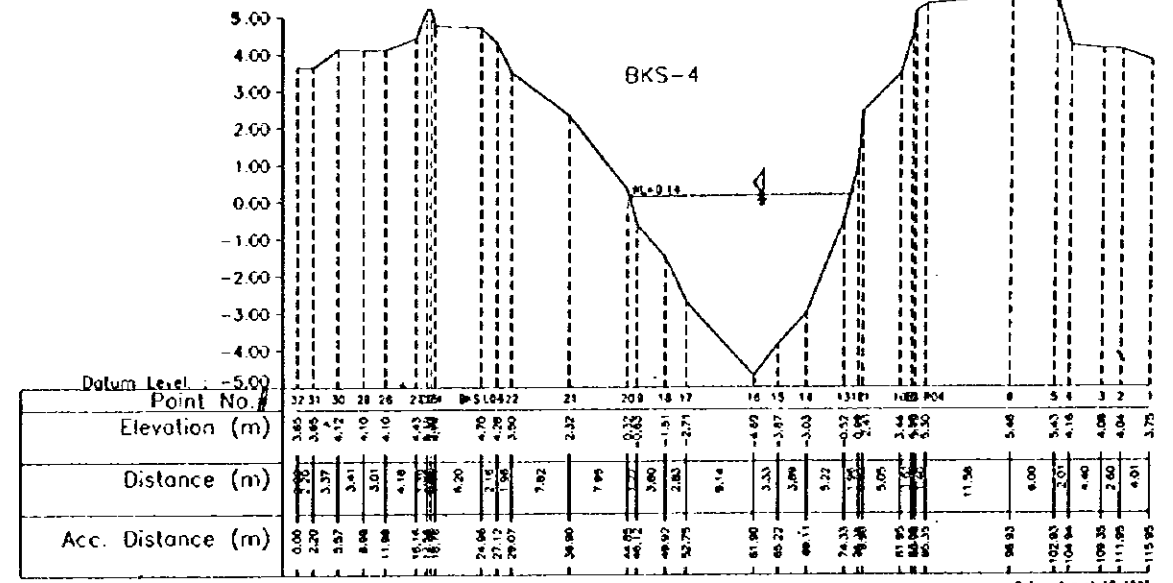
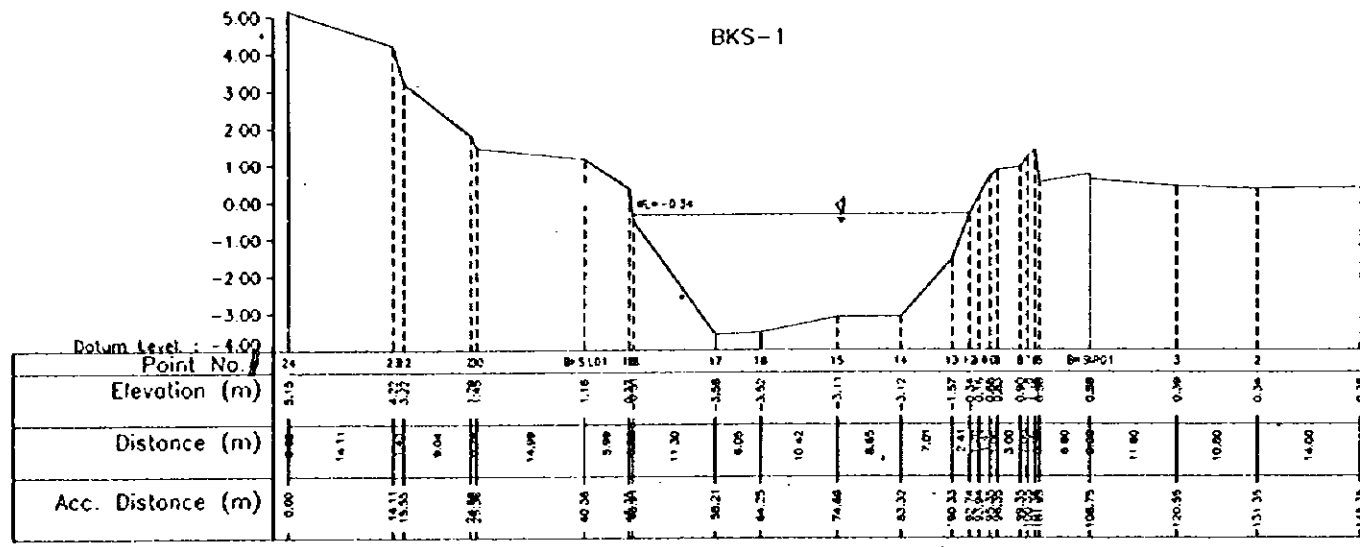
(IN METERS)
 0 1000 2000
 1:100000
 1m = 1:100000

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 : BEKASI RIVER		Drawing Title : LONGITUDINAL PROFILE	
Checked by BIRJONO Signature: <i>Birjono</i> Date: 25.11.2012	Approved by SUCANTO Signature: <i>Sucanto</i> Date: 26.11.2012	Scale Horizontal 1 : 100000 Vertical 1 : 100	Sheet No. 1 of 1

JICA JAPAN INTERNATIONAL COOPERATION AGENCY
WHAYMAN & Associates
 JAKARTA - INDONESIA



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

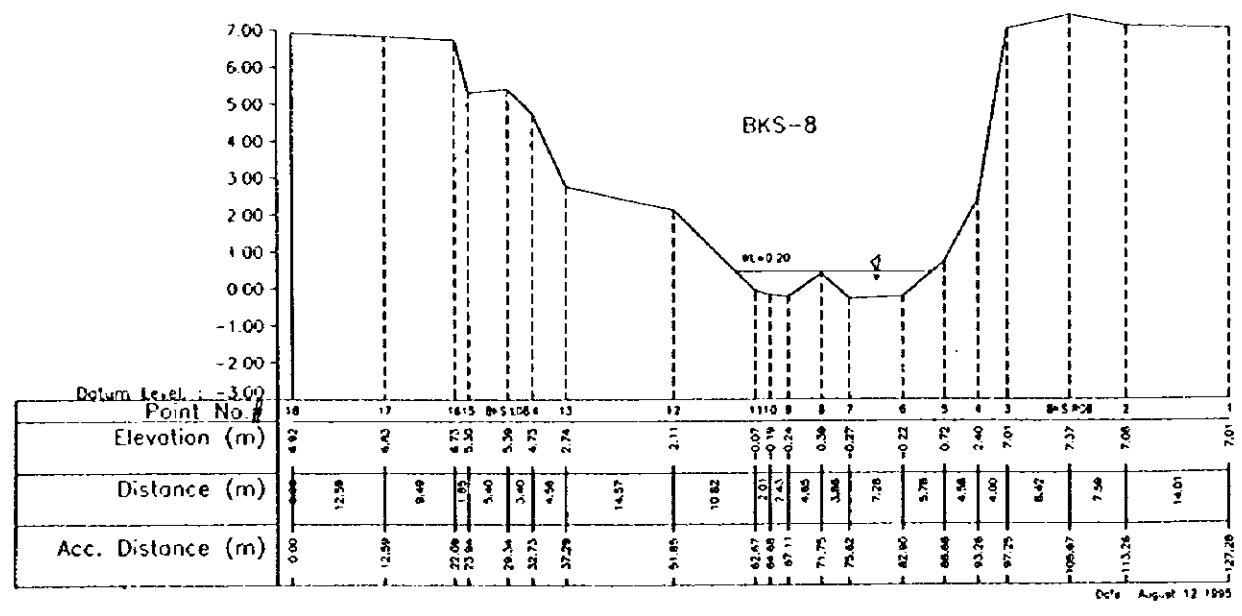
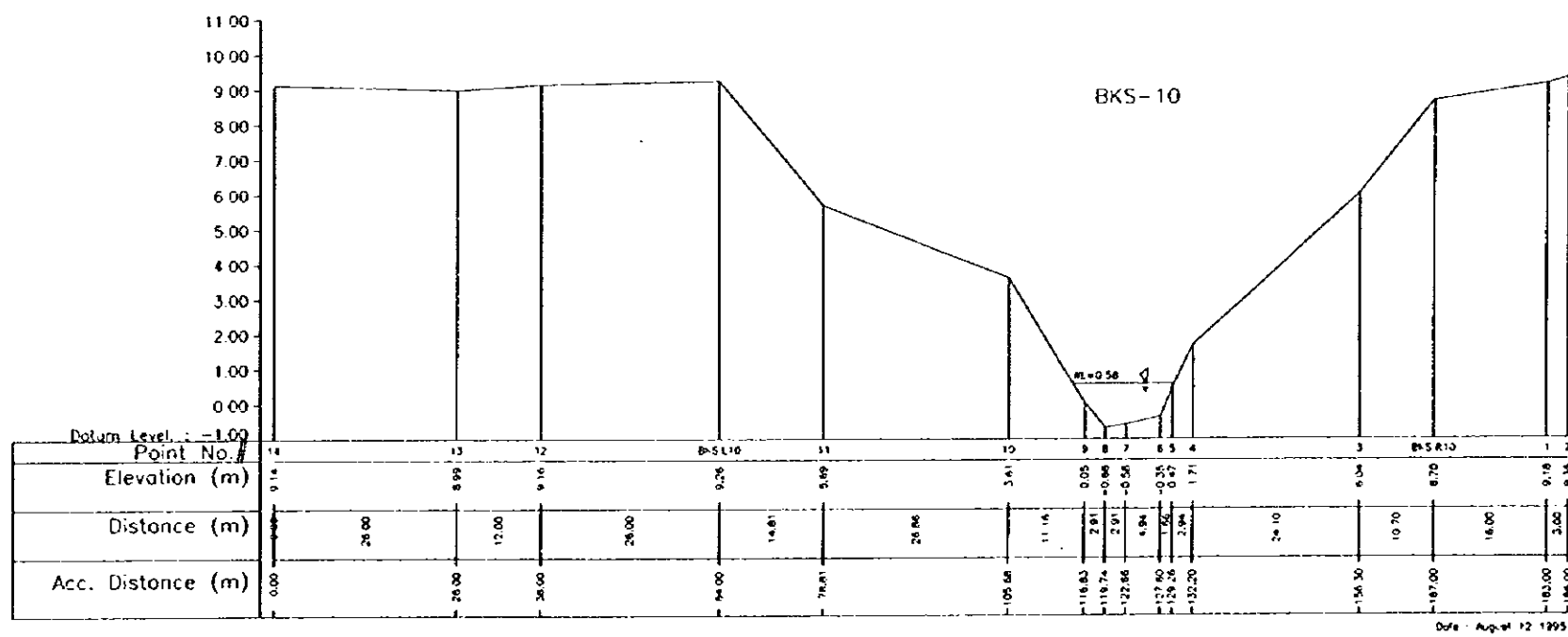
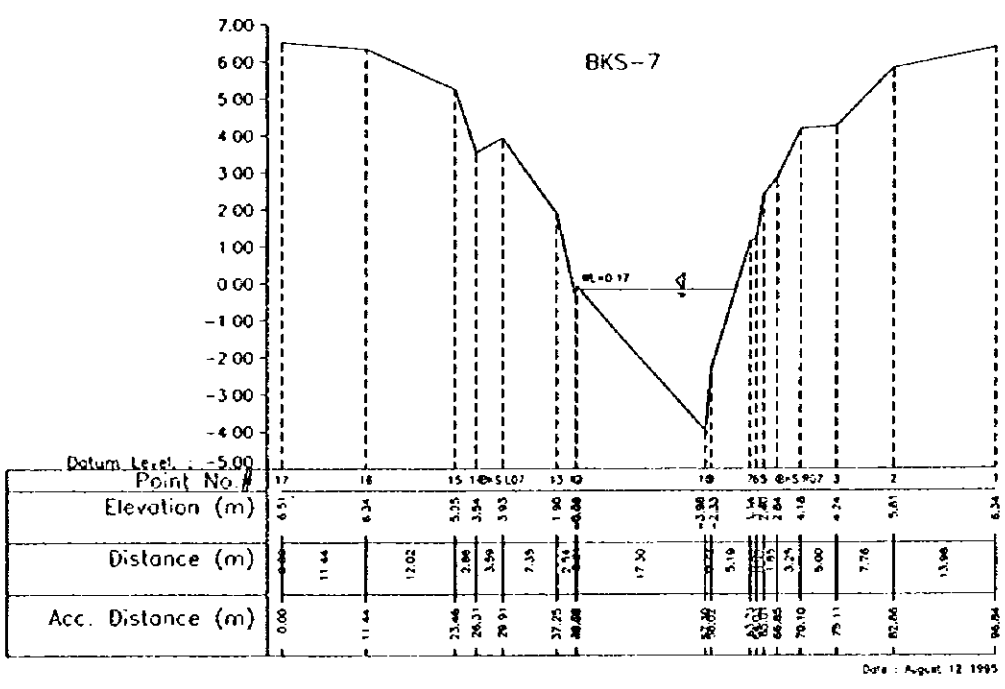
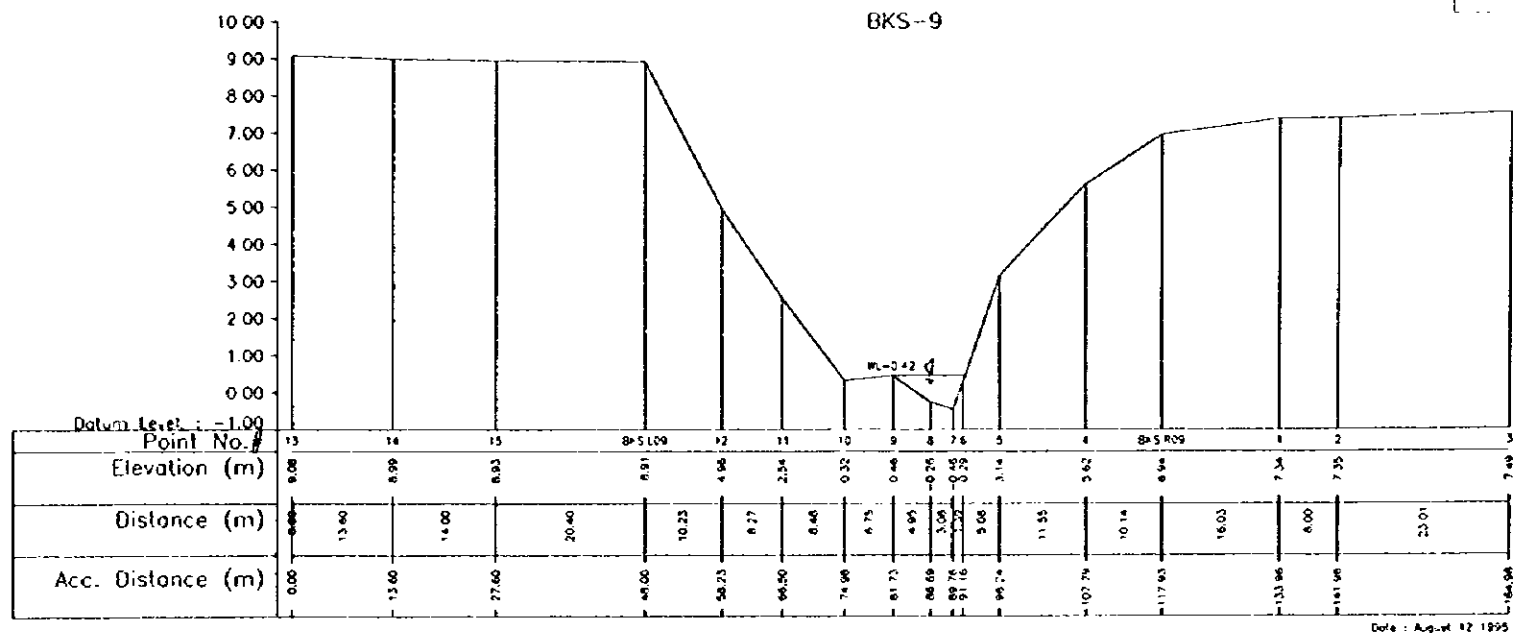
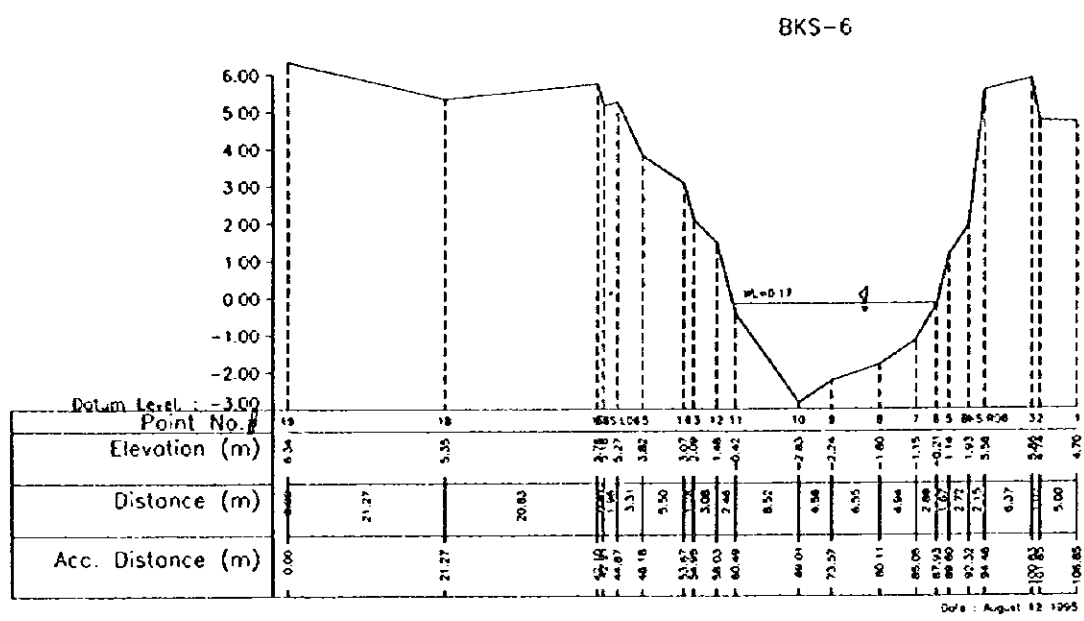
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked By	Approved By	Scale	Sheet No.
Name: <i>[Signature]</i>	Name: <i>[Signature]</i>	Horizontal 1 : 500	1 of 7
Date: 11.08.95	Date: 21.11.95	Vertical 1 : 100	

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



Reference Point:
The Elevation is referred to ITG 177 = 40.136 meters
The correlation between other system are
ITG 177 ± 0 = NWP - 0.975 meters = FP ± : meter

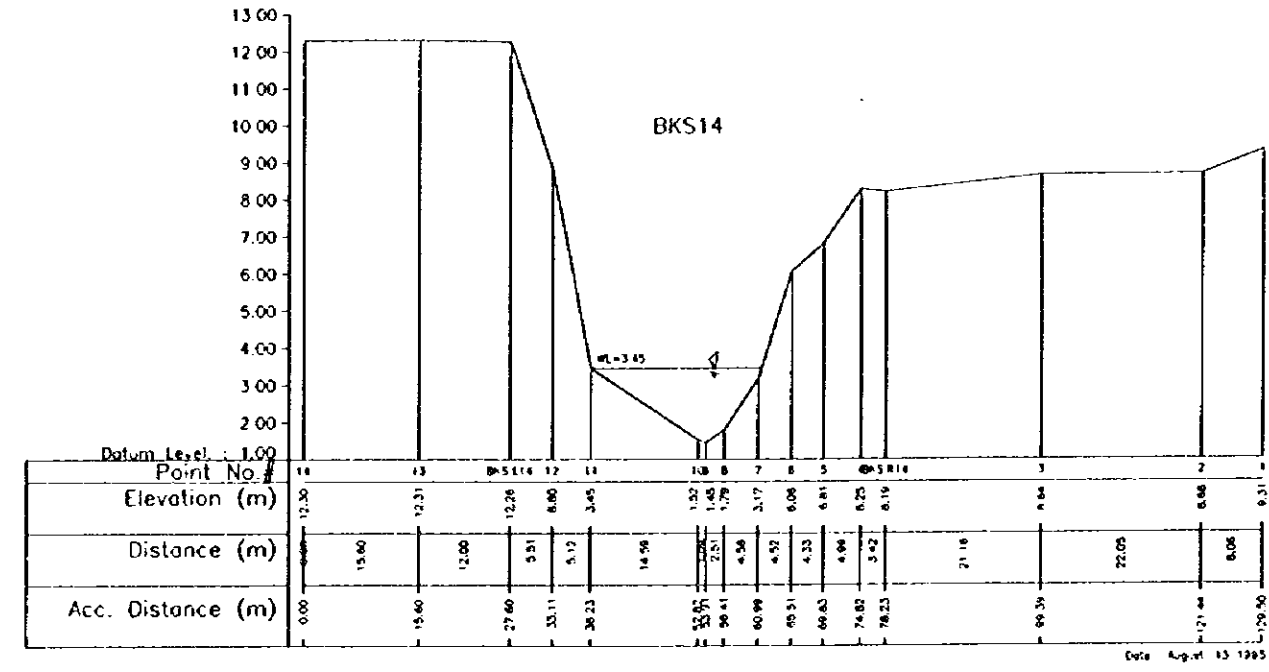
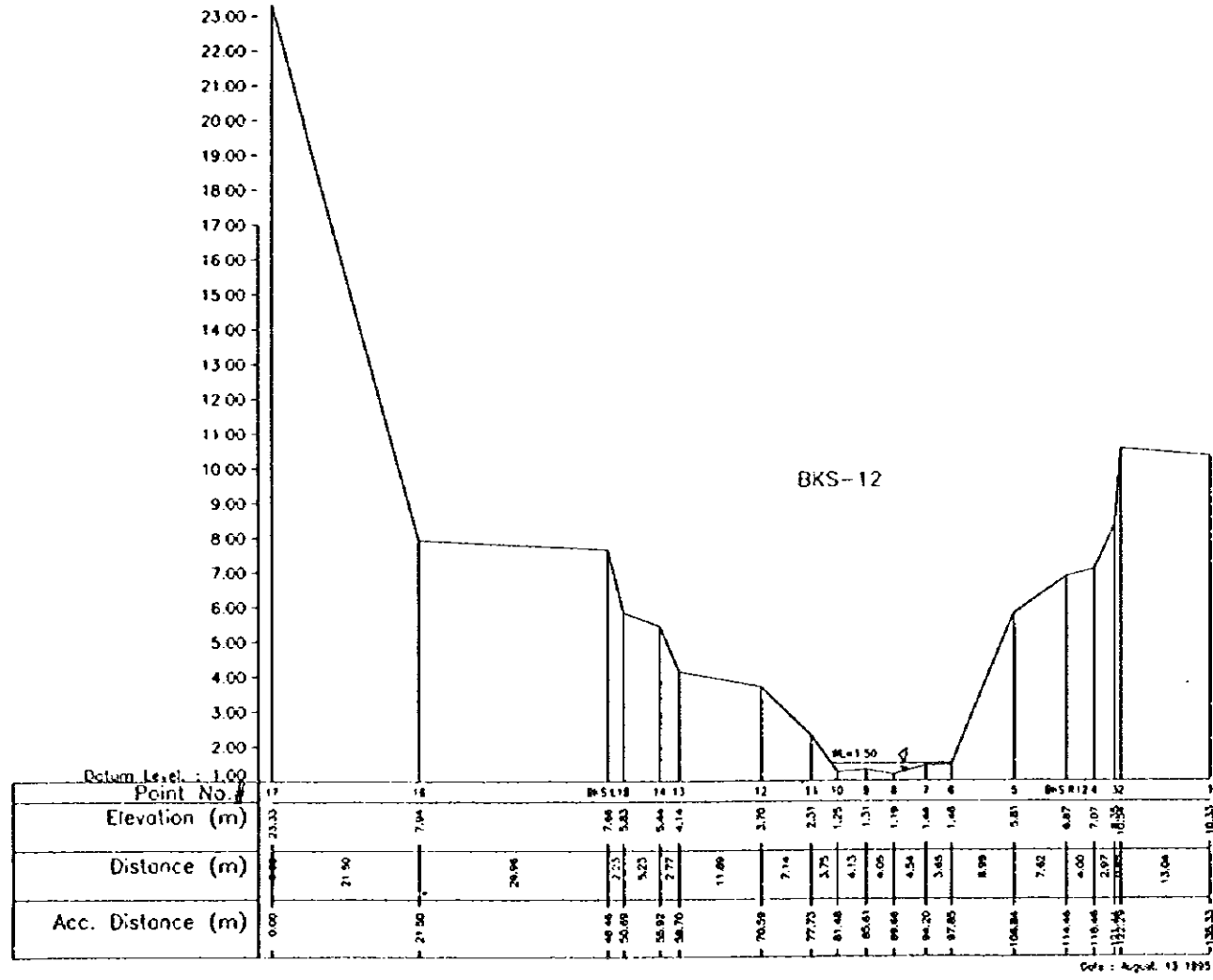
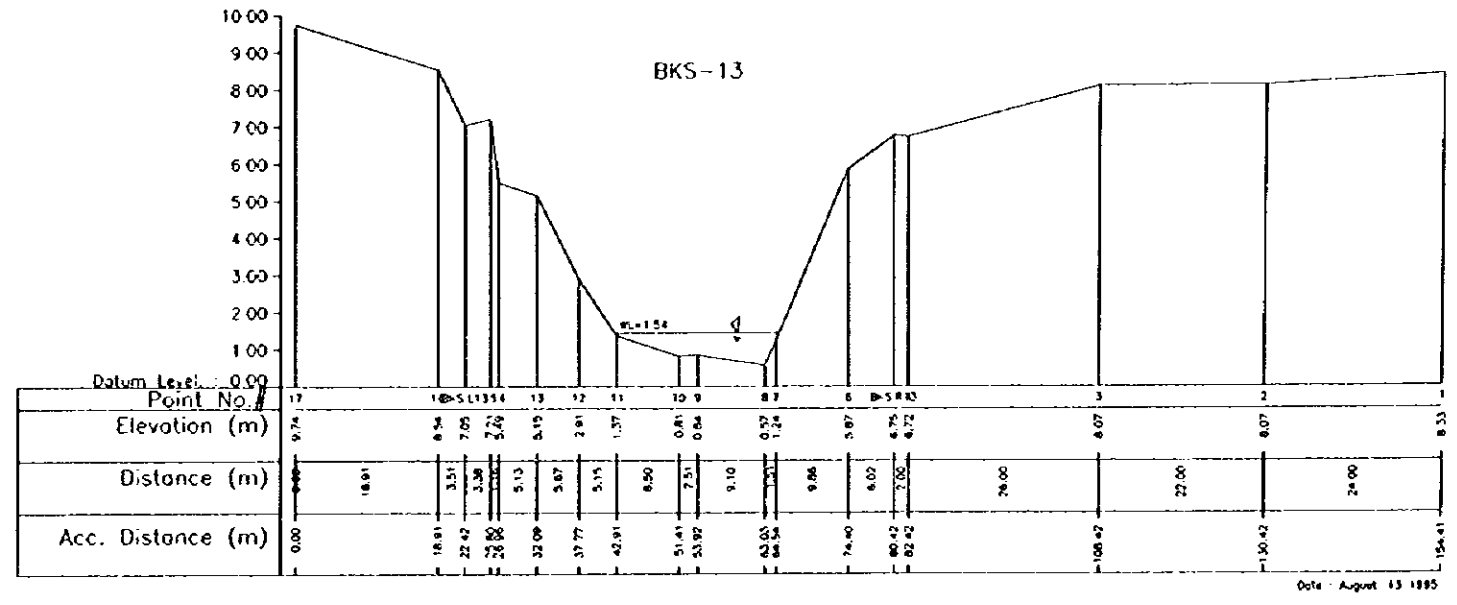
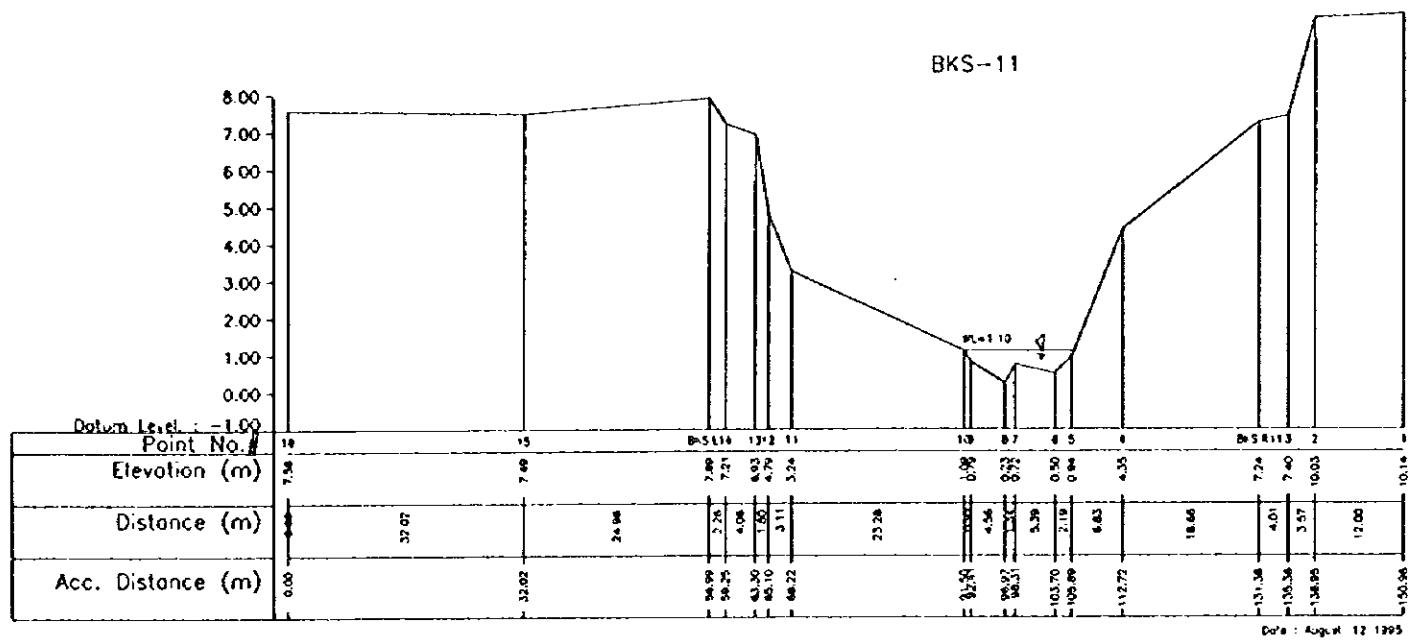
(IN METERS)
1 : 500

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 : BEKASI RIVER		Drawing Title : CROSS SECTION	
Checked by : BANCHO SOEPARTO	Approved by : H. TOPANE	Scale : Horizontal 1 : 500	Sheet No : 2 of 7
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Vertical : 1 : 100	
Date : 12.11.95	Date : 21.11.95		

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



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

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

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

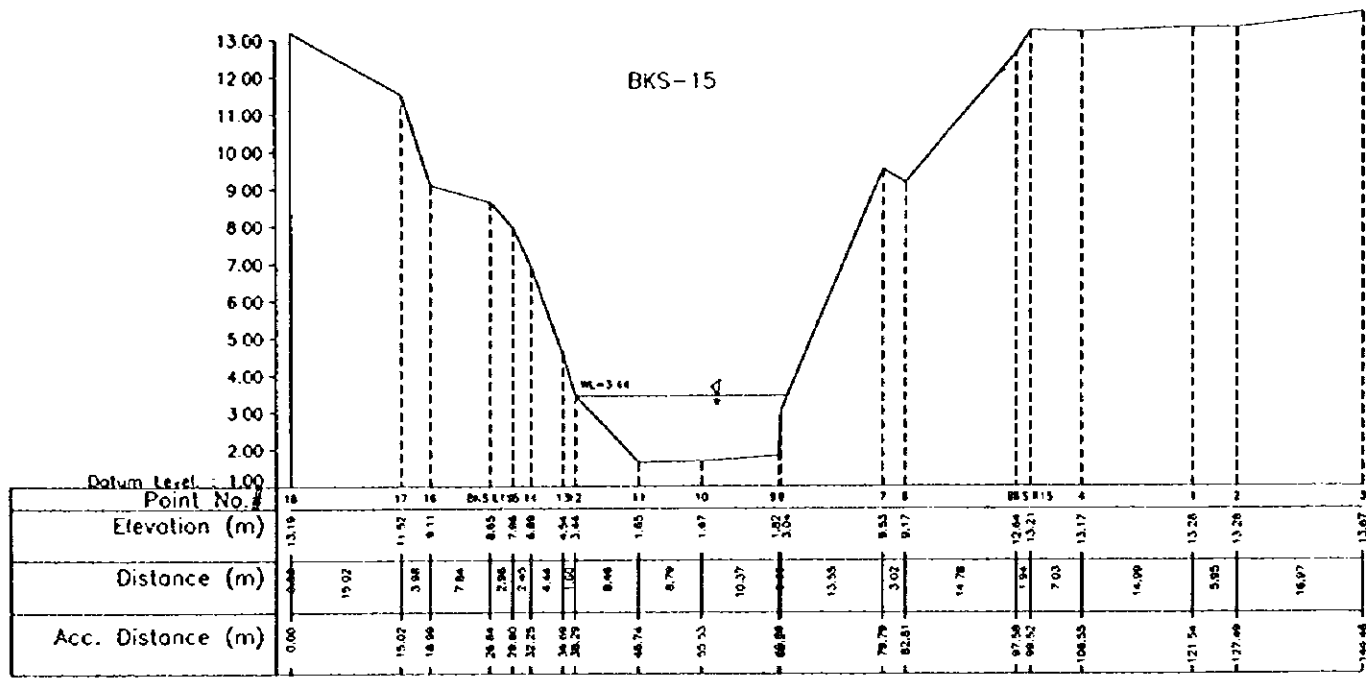
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

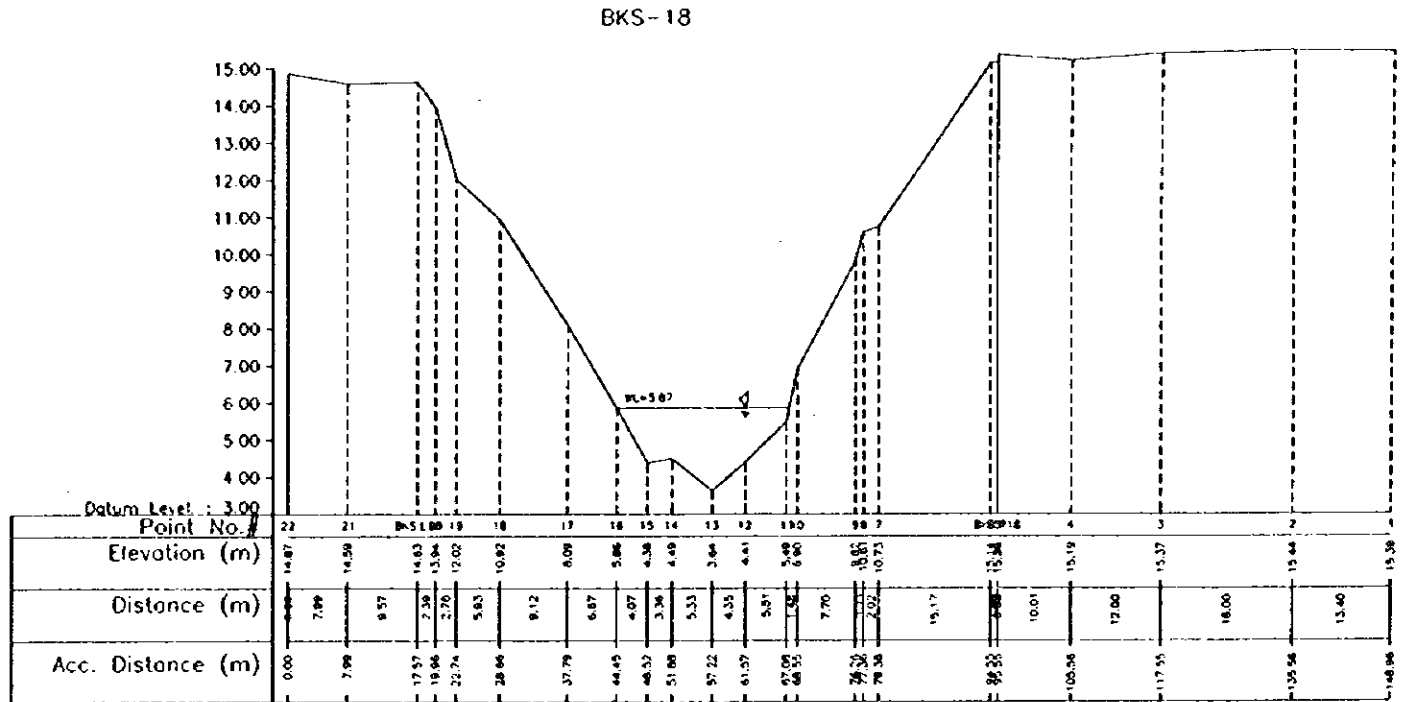
Checked by : BIRONO	Approved by : T. HAN	Scale : Horizontal 1 : 500 Vertical 1 : 100	Sheet No : 3 of 7
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Date : 20.11.85

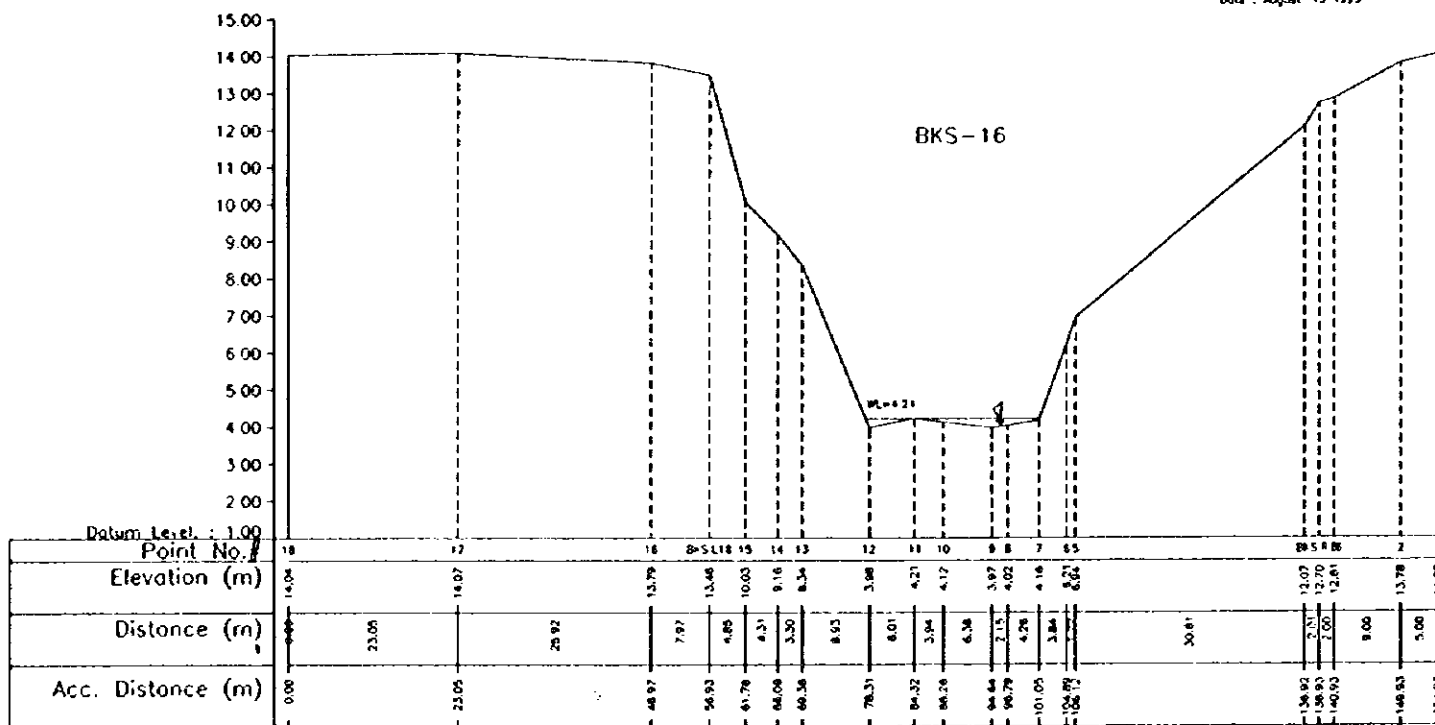
JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIRATMAN & Associates** JAKARTA - INDONESIA



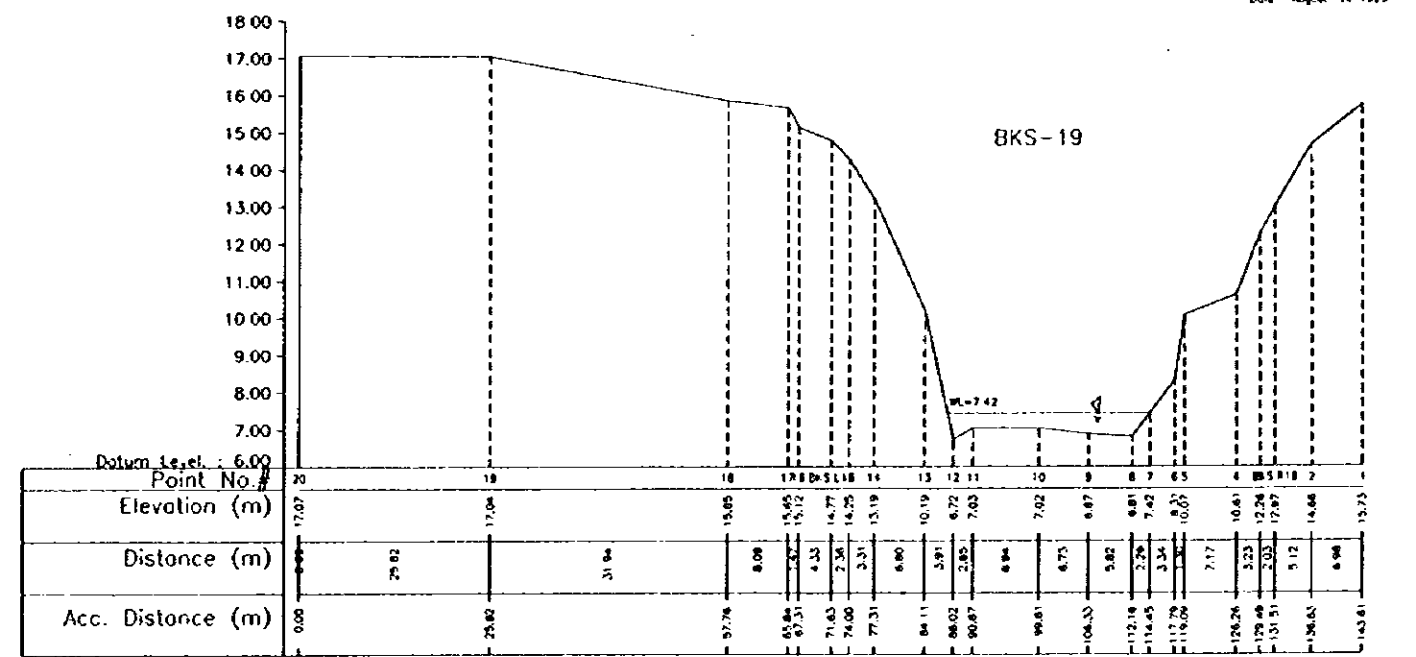
Date : August 13 1995



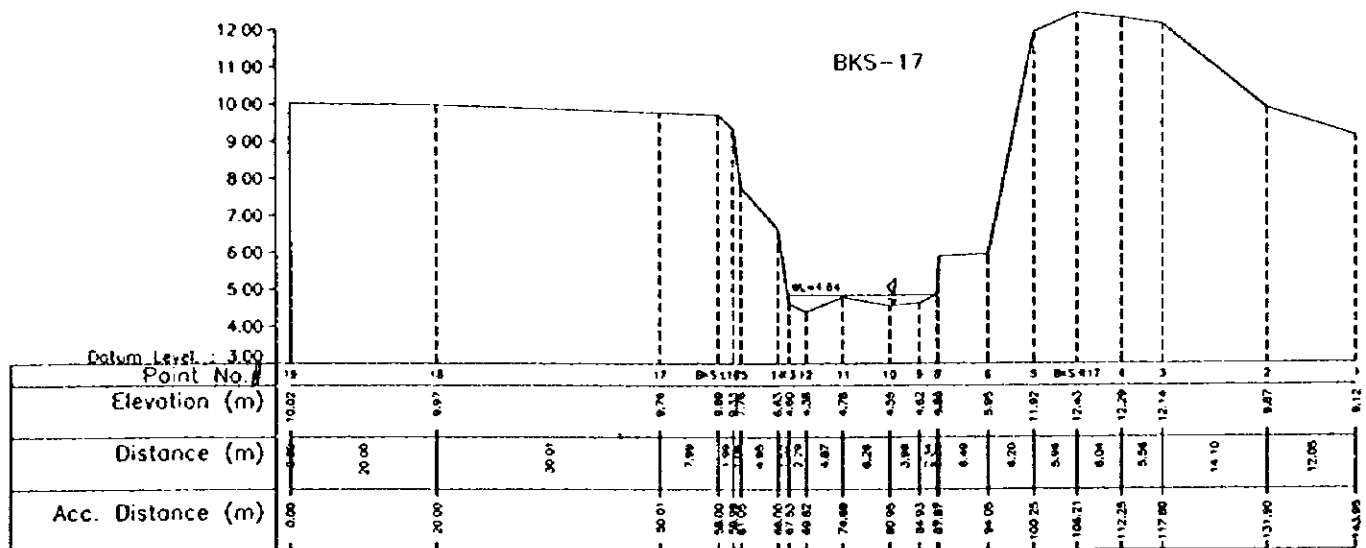
Date : August 14 1995



Date : August 14 1995



Date : August 14 1995



Date : August 14 1995

Reference Point :
 The Elevation is referred to ITG 177 = 40.136 meters
 The correlation between other system are :
 ITG 177 ± 0 = NAD 83 ± 0.975 meters = PP ± ... meter

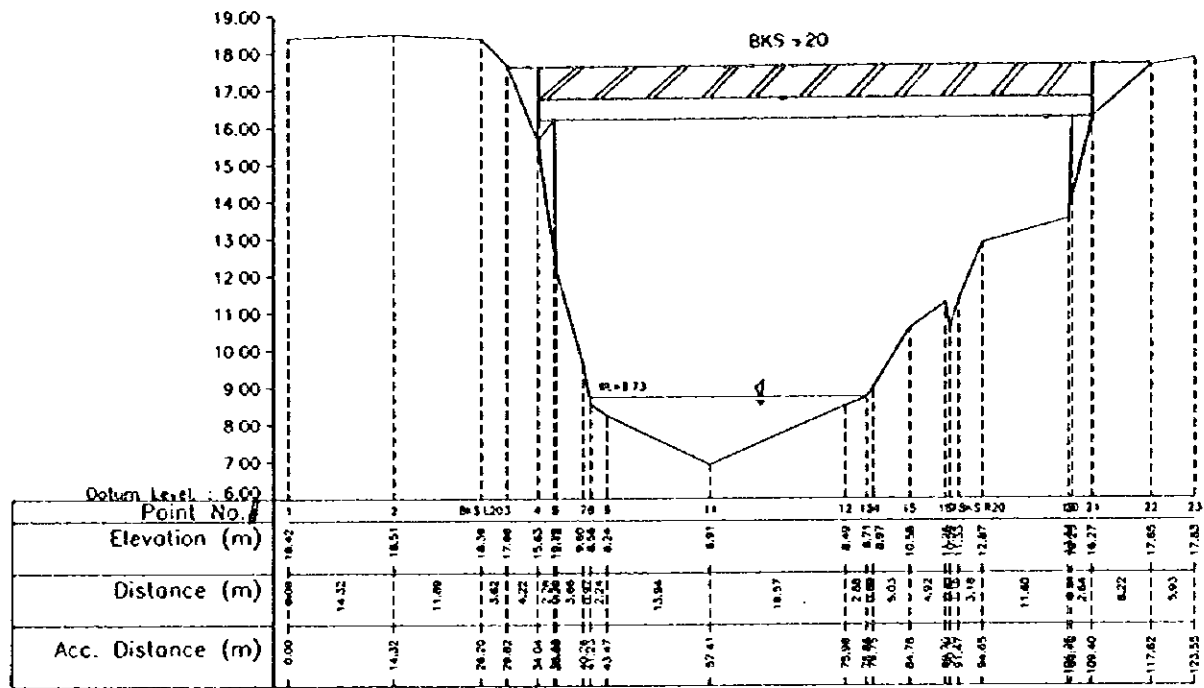
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

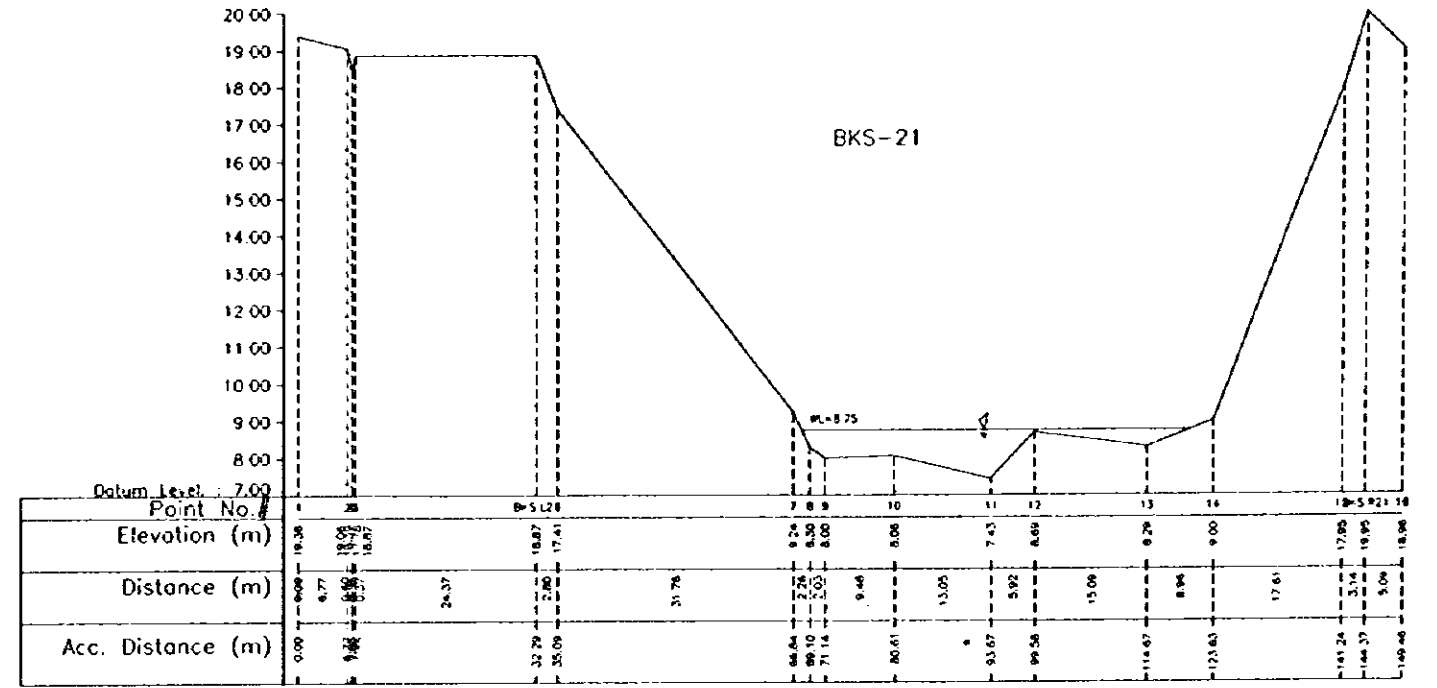
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 Name : [Name] Scale : Horizontal 1 : 500 Sheet No : 4 of 7
 Signature : [Signature] Date : 20-11-95 Vertical 1 : 100

JICA JAPAN INTERNATIONAL COOPERATION AGENCY WIRATMAN & Associates JAKARTA - INDONESIA



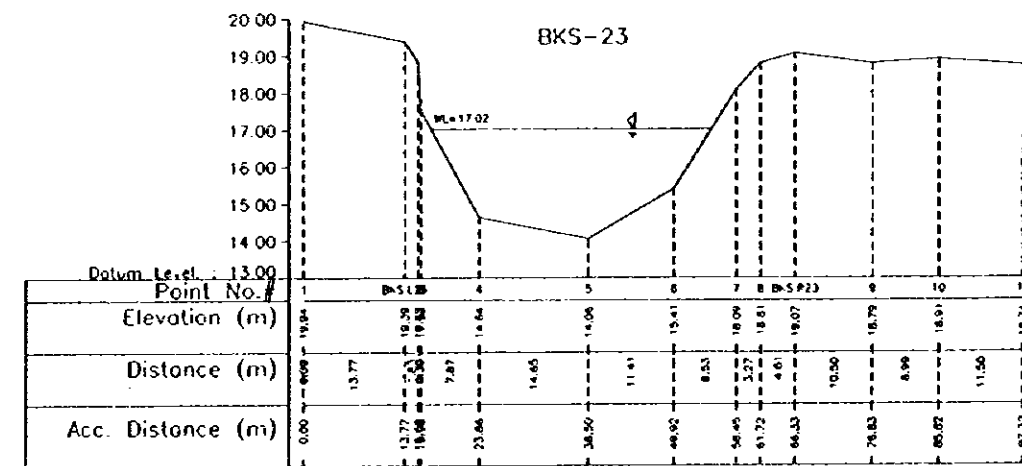
Point No.	Elevation (m)	Distance (m)	Acc. Distance (m)
1	18.42	0.00	0.00
2	18.51	14.32	14.32
3	18.36	11.09	25.41
4	17.06	3.42	28.83
5	15.43	4.22	33.05
6	13.03	3.06	36.11
7	9.00	3.06	39.17
8	8.73	3.18	42.35
9	8.91	13.84	56.19
10	8.89	18.57	74.76
11	8.71	2.00	76.76
12	8.87	3.18	79.94
13	10.58	4.92	84.86
14	12.87	3.18	88.04
15	12.87	11.40	99.44
16	14.00	2.54	101.98
17	16.37	8.22	110.20
18	17.85	5.93	116.13
19	17.85	123.55	123.55

Date : Sept 8 1995



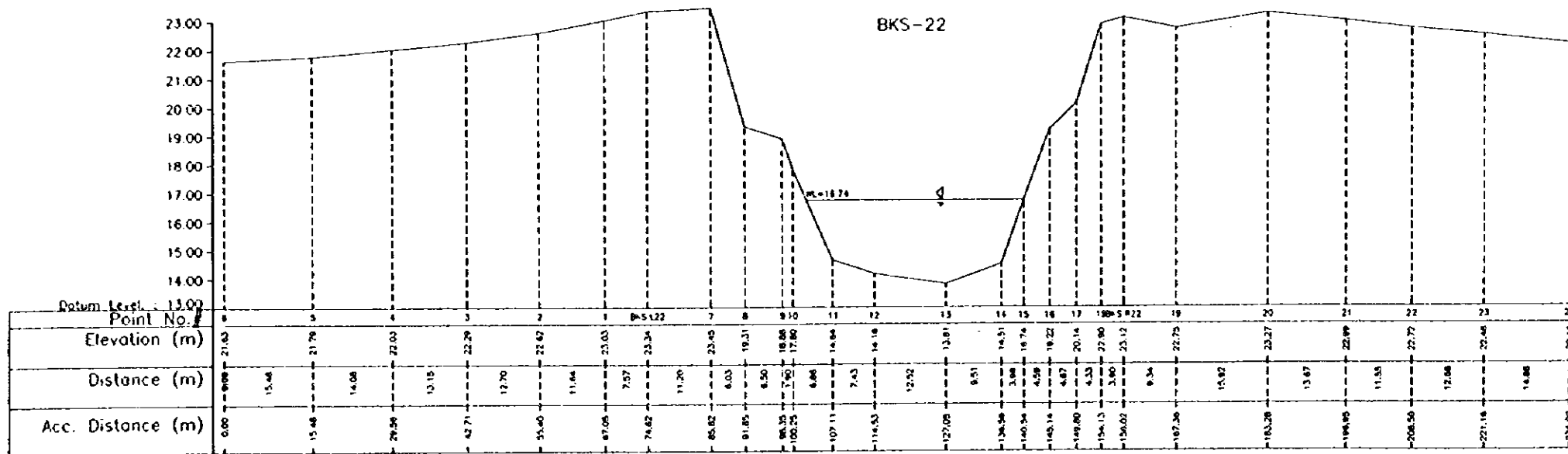
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2	18.07	6.77	6.77
3	18.07	24.37	31.14
4	17.41	2.00	33.14
5	17.41	35.08	68.22
6	8.75	7.89	76.11
7	8.00	9.48	85.59
8	8.00	13.05	98.64
9	7.43	5.92	104.56
10	8.69	15.06	119.62
11	8.29	8.94	128.56
12	9.00	17.61	146.17
13	17.85	3.14	149.31
14	18.95	5.08	154.39
15	18.95	189.48	189.48

Date : Sept 8 1995



Point No.	Elevation (m)	Distance (m)	Acc. Distance (m)
1	19.04	0.00	0.00
2	19.04	13.77	13.77
3	18.82	7.87	21.64
4	18.82	14.65	36.29
5	14.06	11.41	47.70
6	15.41	8.53	56.23
7	18.09	3.27	59.50
8	18.81	4.61	64.11
9	18.07	10.00	74.11
10	18.79	8.94	83.05
11	18.91	11.56	94.61
12	18.74	97.32	97.32

Date : Sept 8 1995



Point No.	Elevation (m)	Distance (m)	Acc. Distance (m)
1	21.62	0.00	0.00
2	21.79	15.48	15.48
3	22.03	14.08	29.56
4	22.29	13.15	42.71
5	22.82	13.70	56.41
6	23.03	11.84	68.25
7	23.34	7.37	75.62
8	23.45	11.20	86.82
9	23.45	6.03	92.85
10	19.31	6.50	99.35
11	18.88	7.50	106.85
12	17.80	6.84	113.69
13	16.84	10.11	123.80
14	16.16	7.43	131.23
15	14.00	12.92	144.15
16	13.81	9.51	153.66
17	14.51	3.88	157.54
18	16.74	3.08	160.62
19	18.22	4.59	165.21
20	19.22	4.87	170.08
21	20.14	4.33	174.41
22	22.90	3.80	178.21
23	25.12	9.34	187.55
24	22.75	15.82	203.37
25	22.89	13.87	217.24
26	22.72	11.58	228.82
27	22.46	12.88	241.70
28	22.16	14.88	256.58
29	22.16	234.07	234.07

Date : Sept 8 1995

Reference Point :
 The Elevation is referred to FIG 177 = 40+56 meters
 The correlation between other system are :
 FIG 177 ± 0 = NAD - 0.975 meters = PP ± ... meter

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

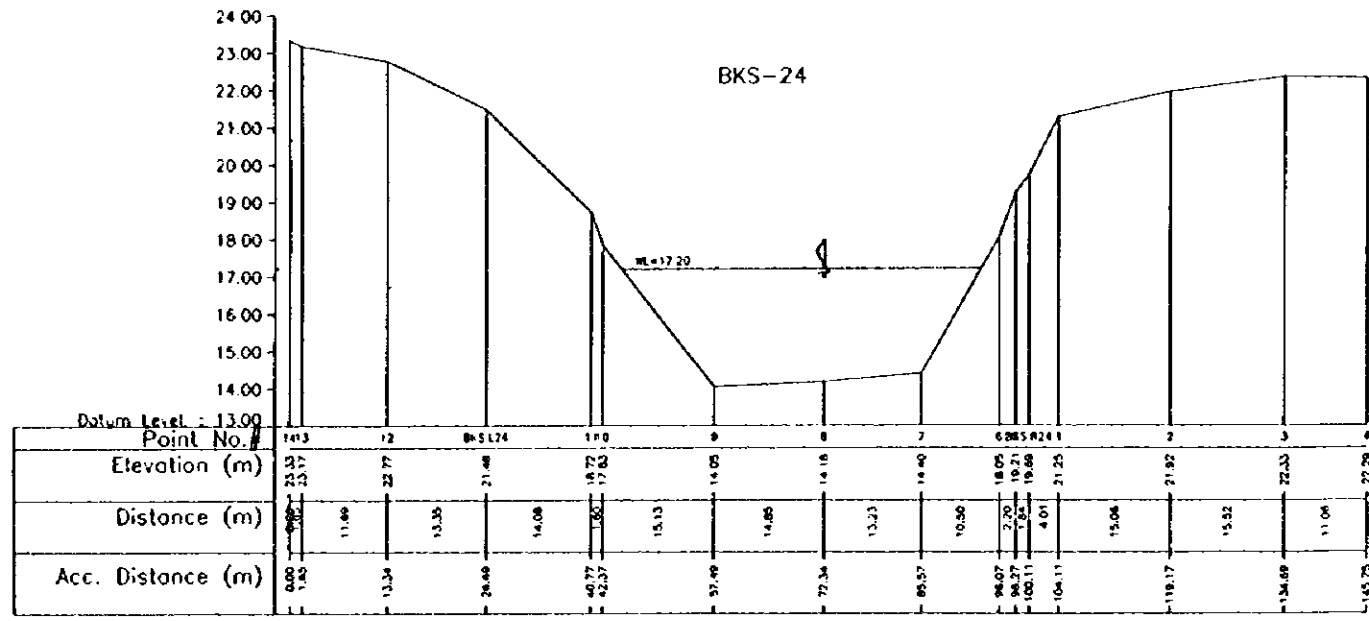
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

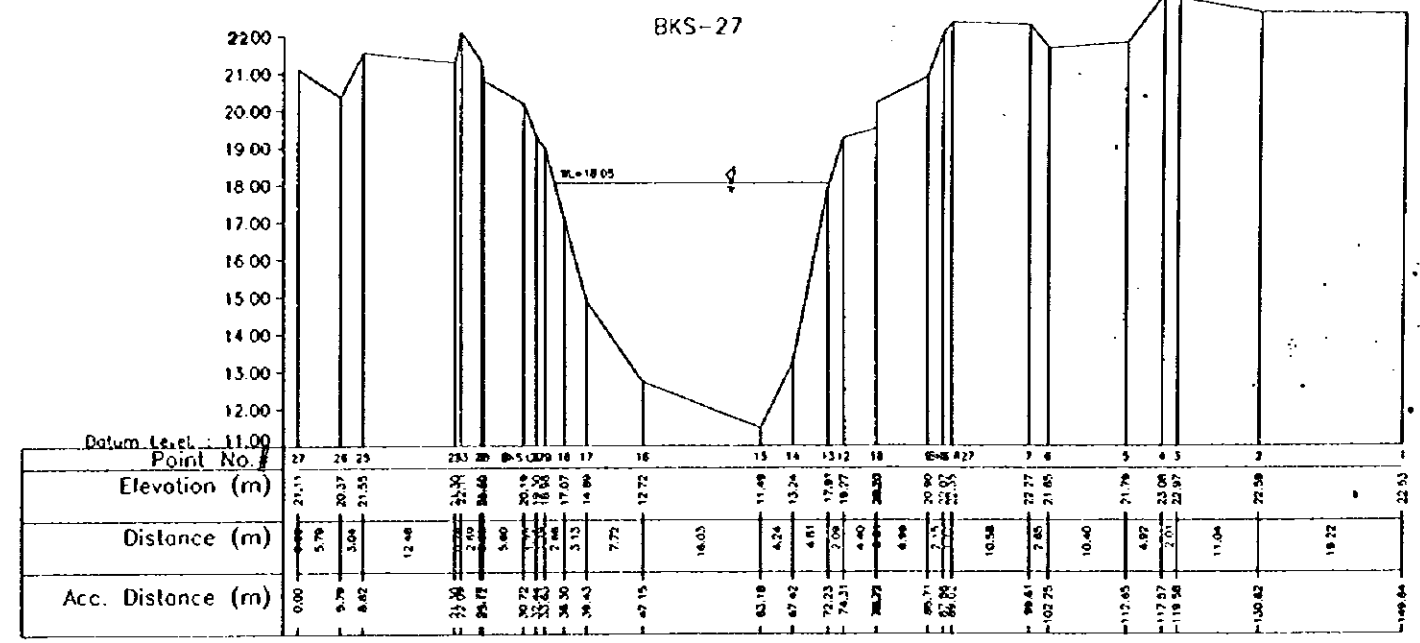
Name of River : **BEKASI RIVER** Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
BRWNO	R. TORANE	Horizontal 1 : 500	5 of 7
Signature	Signature	Vertical 1 : 100	
Date	Date		

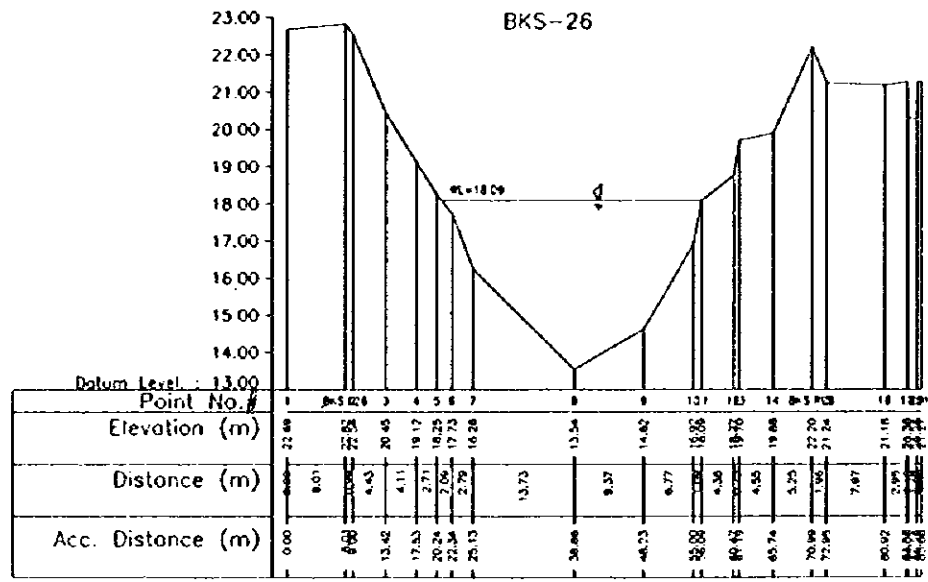
JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WHATMAN & Associates** JAKARTA - INDONESIA



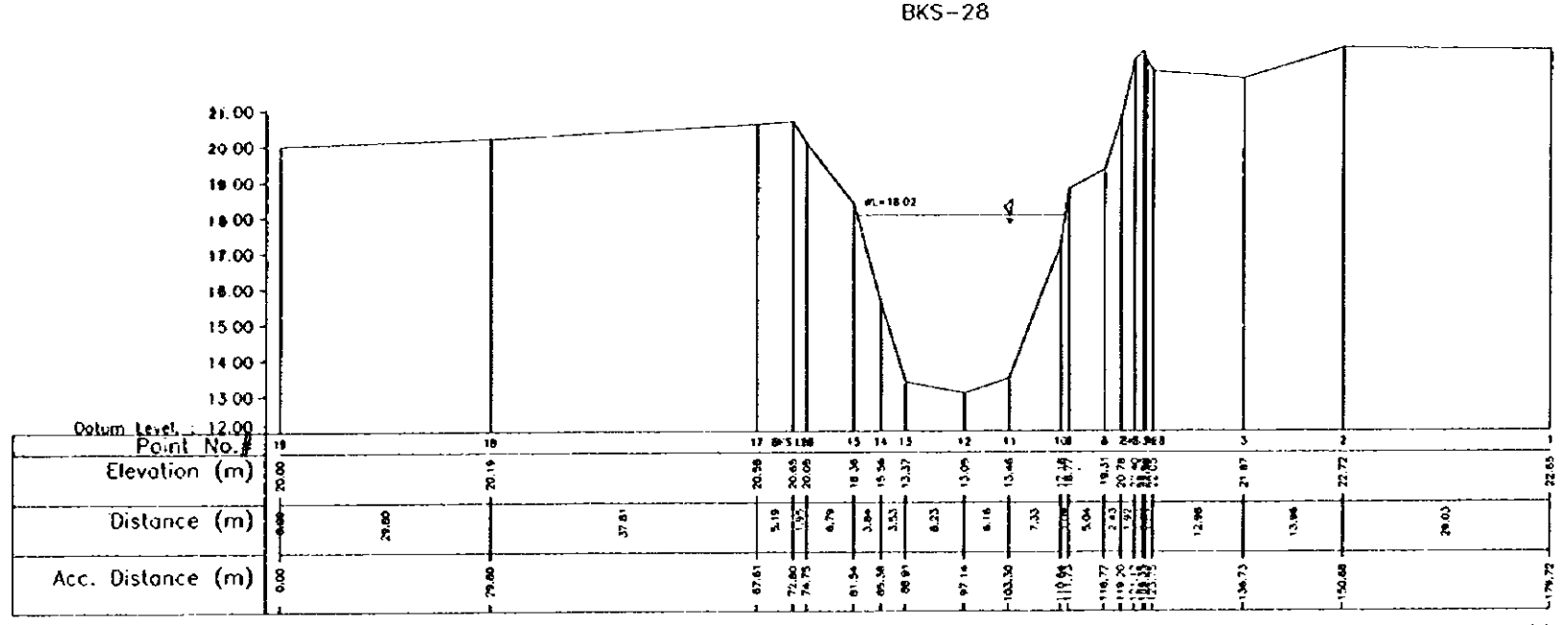
Date: August 23 1995



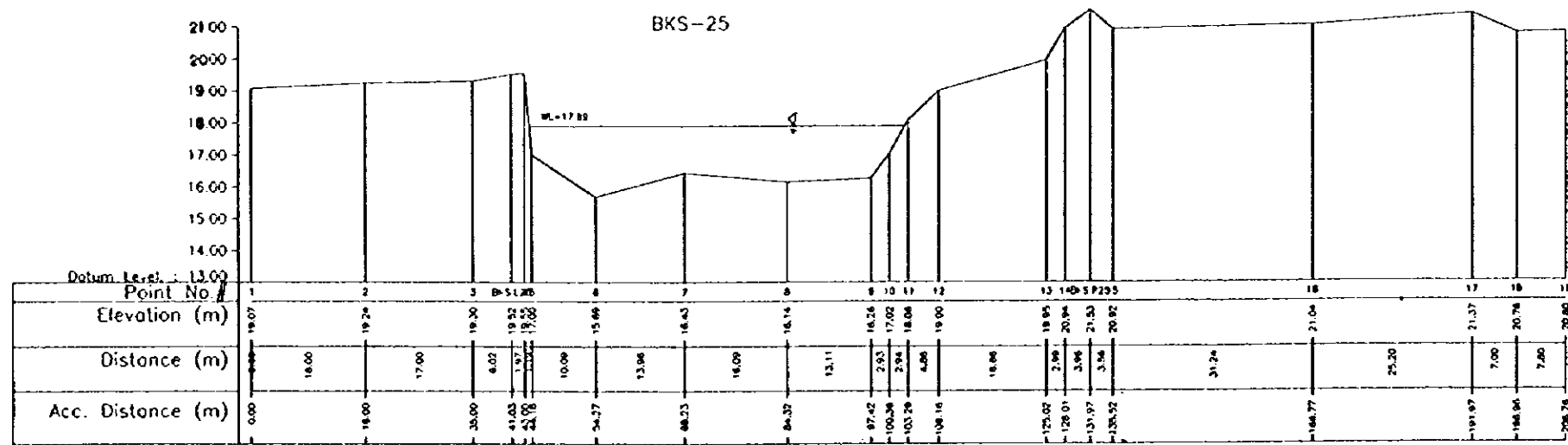
Date: Aug. 26 1995



Date: August 28 1995



Date: Aug. 28 1995



Date: August 28 1995

Reference Point:
 The Elevation is referred to BTG 177 = 40 136 meters
 The correlation between other system are:
 TTG 177 ± 0 = NWP - 0.975 meters = PP + meter

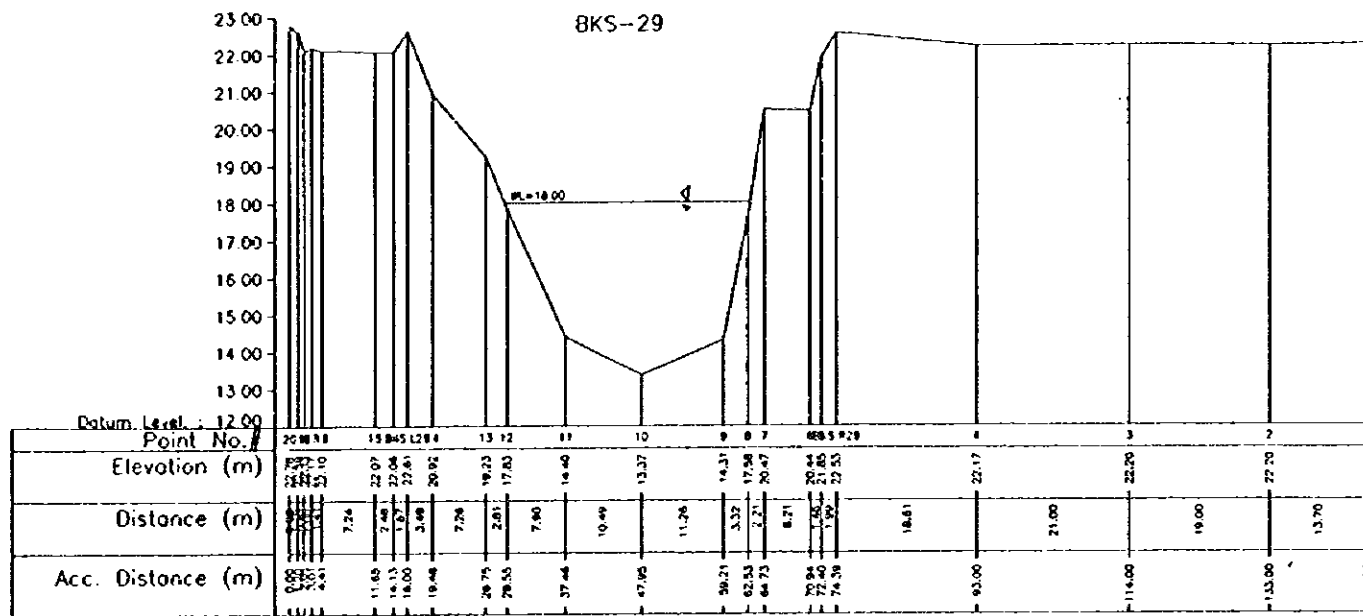
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

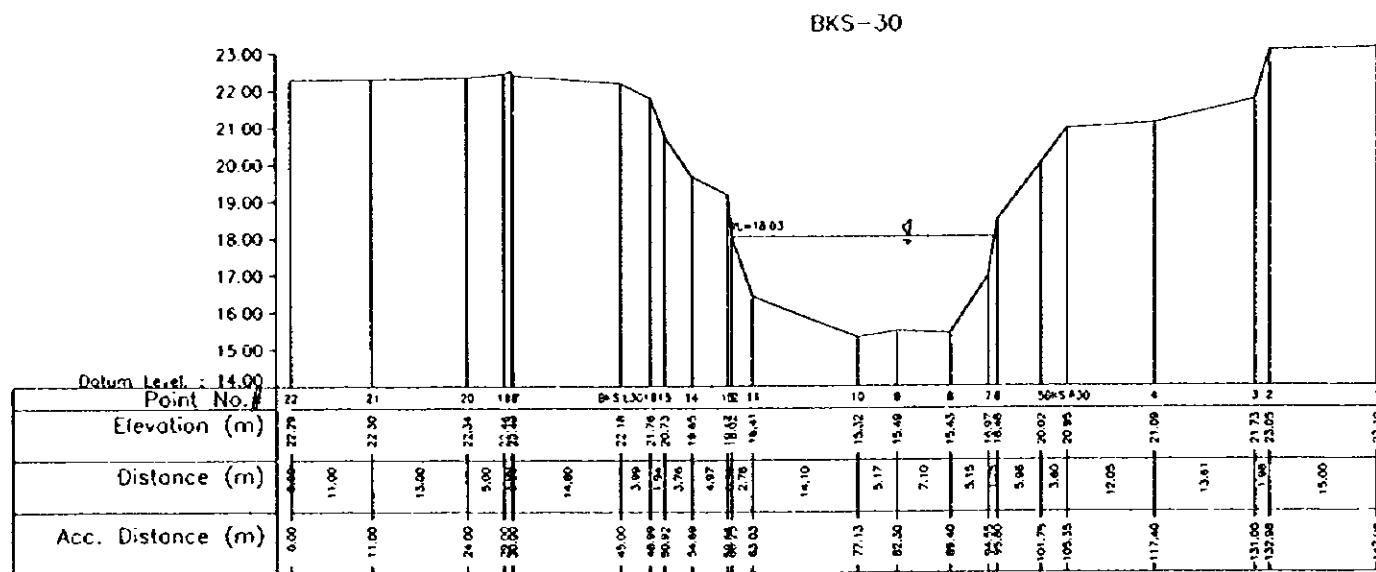
Name of River : **BEKASI RIVER** Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
Signature: [Signature]	Signature: [Signature]	Horizontal 1 : 500	6 of 7
Date: 22.08.95	Date: 21.08.95	Vertical 1 : 100	

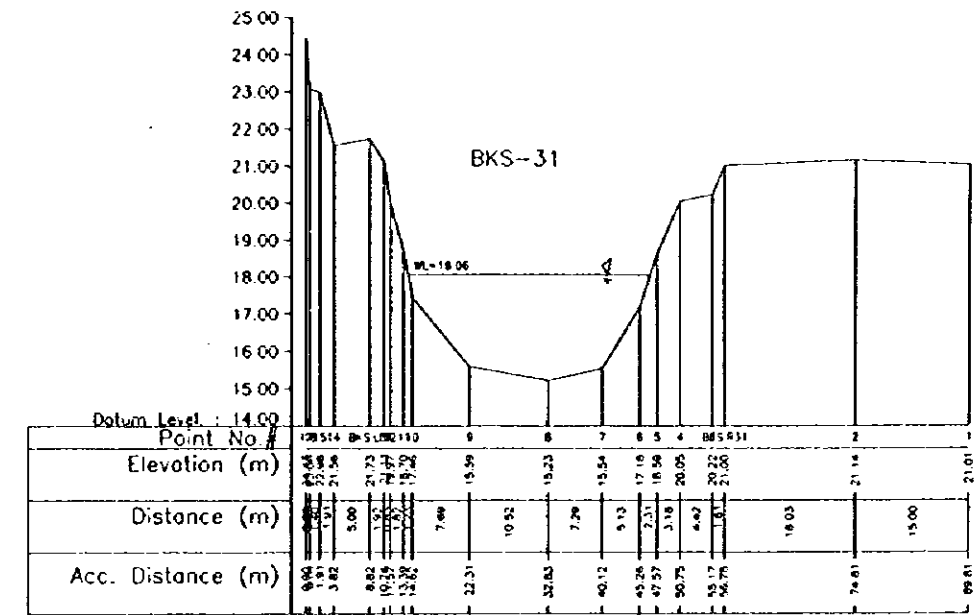
JICA JAPAN INTERNATIONAL COOPERATION AGENCY **WIATMAN & Associates** JAKARTA - INDONESIA



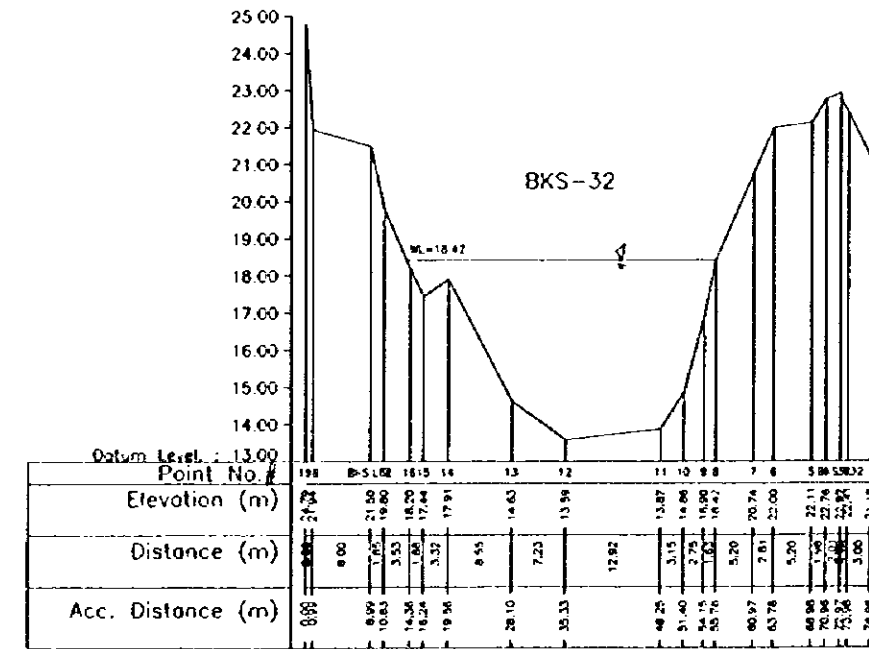
Date : August 28 1995



Date : August 27 1995



Date : August 27 1995



Date : August 27 1995

Reference Point :
 The Elevation is referred to TIG 177 = 40.136 meters
 The correlation between other system are
 TIG 177 ± 0 = 126P - 0.975 meters = PP ± meter

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

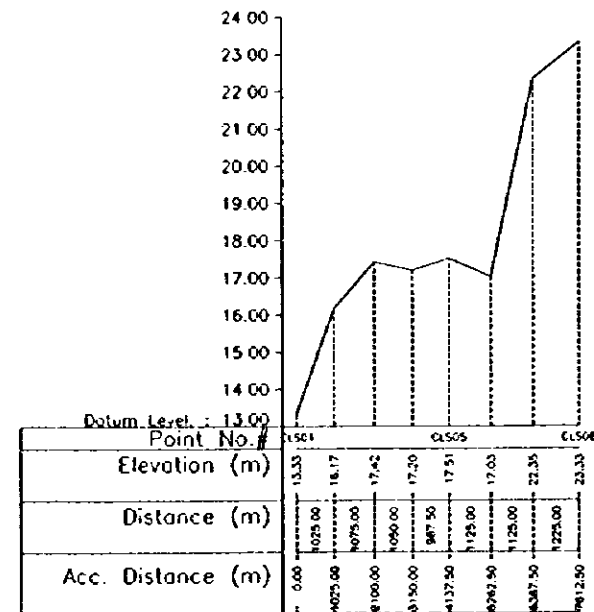
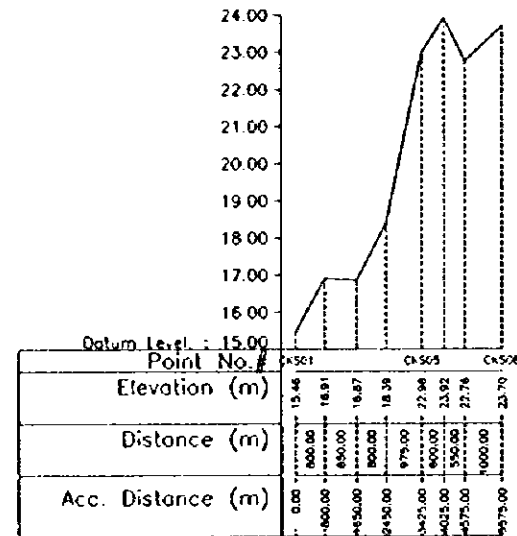
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

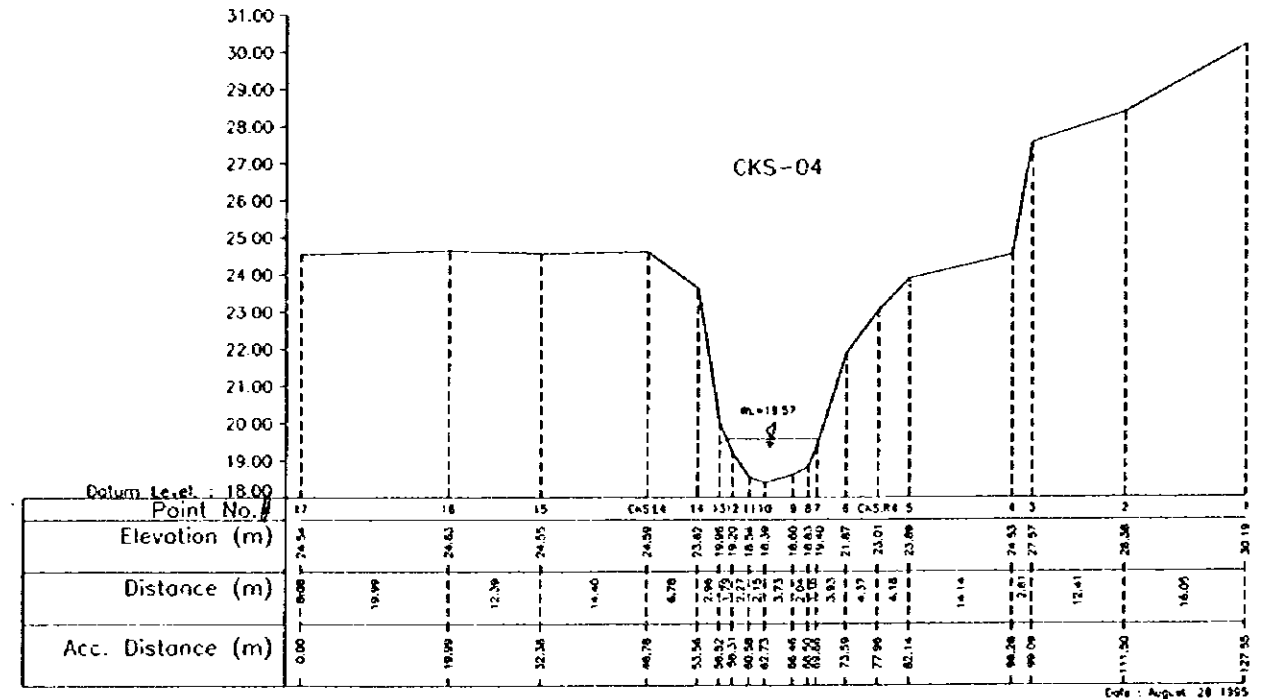
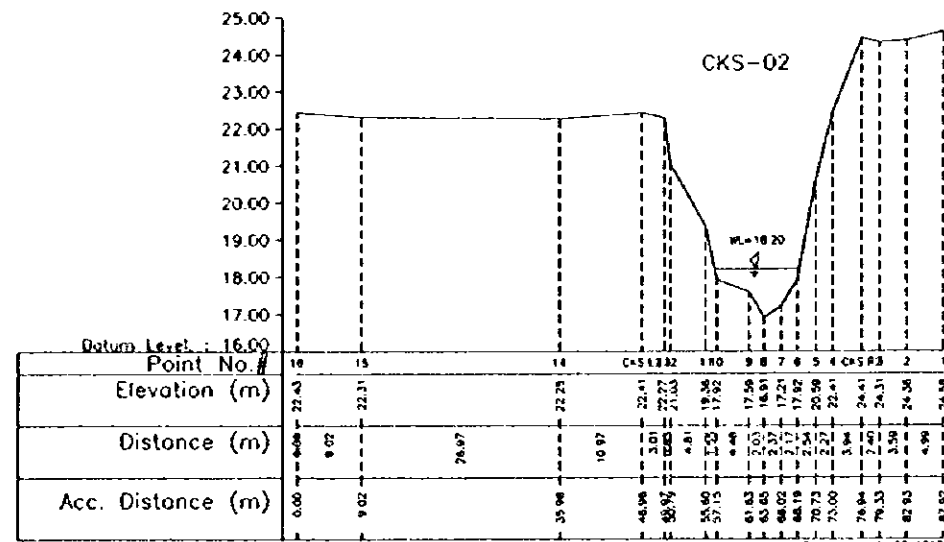
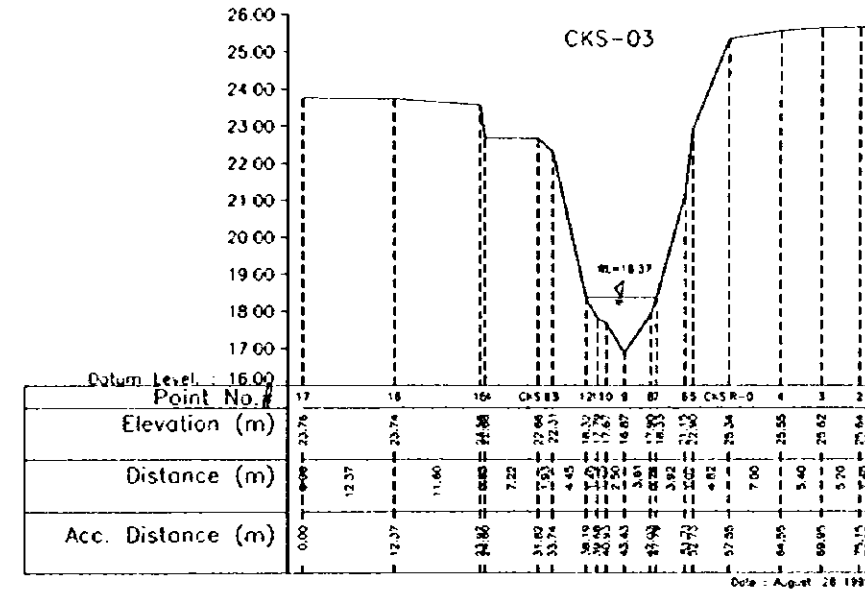
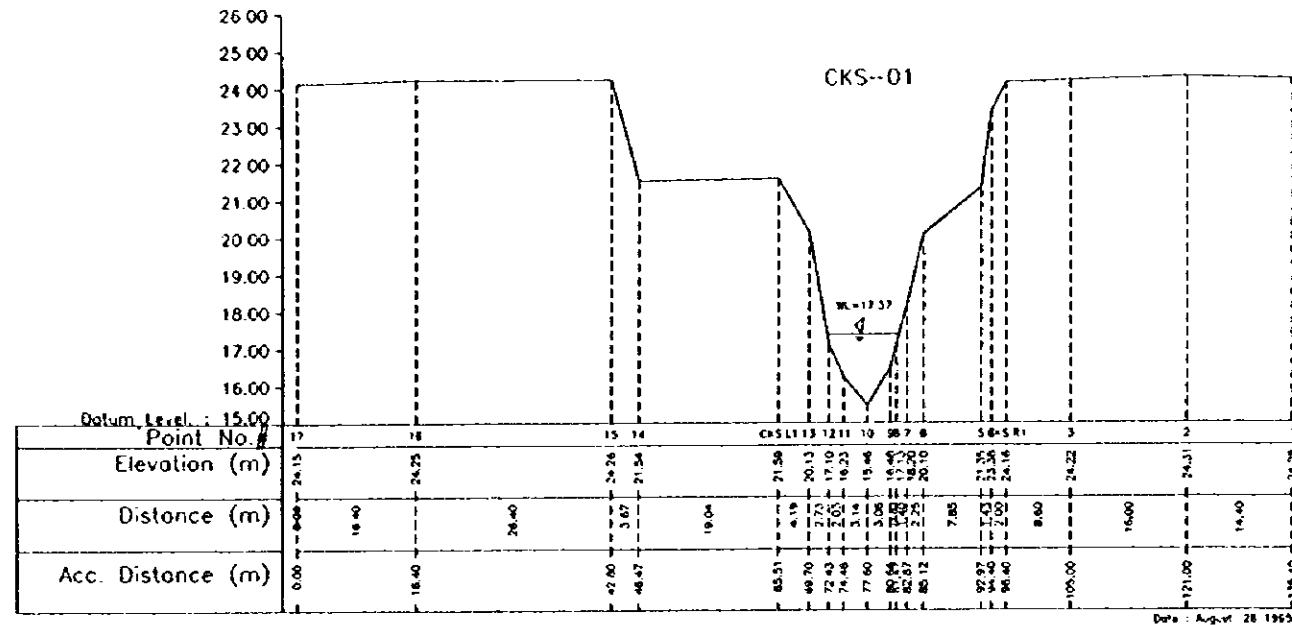
Checked by	Approved by	Scale	Sheet No
BRAND SOEDARPO I MAN R SUPRANE		Horizontal 1 : 500 Vertical 1 : 100	7 of 7

Date : 11 11 95 20.11.95

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Reference Point : The Elevation is referred to FIG 177 = 40.136 meters The correlation between other system are FIG 177 ± 0 = WAD = 0.925 meters ± 0.1 meter		 Scale : 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 : CIKEAS & CILEUNGSI RIVERS		Drawing Title : LONGITUDINAL PROFILE	
Checked By : BIRUCHO SREBAPTO		Approved by : K. TORUAE	
Signature : 25/11/98		Date : 26/11/98	
Scale : Horizontal 1 : 100000 Vertical 1 : 100		Sheet No : 1 of 1	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		 WIRATMAN & Associates JAKARTA - INDONESIA	



Reference Point :
 The Elevation is referred to TIG 177 = 40.154 meters
 The correlation between other system are :
 TIG 177 ± 0 = NWP - 0.975 meters = FP + ... meter

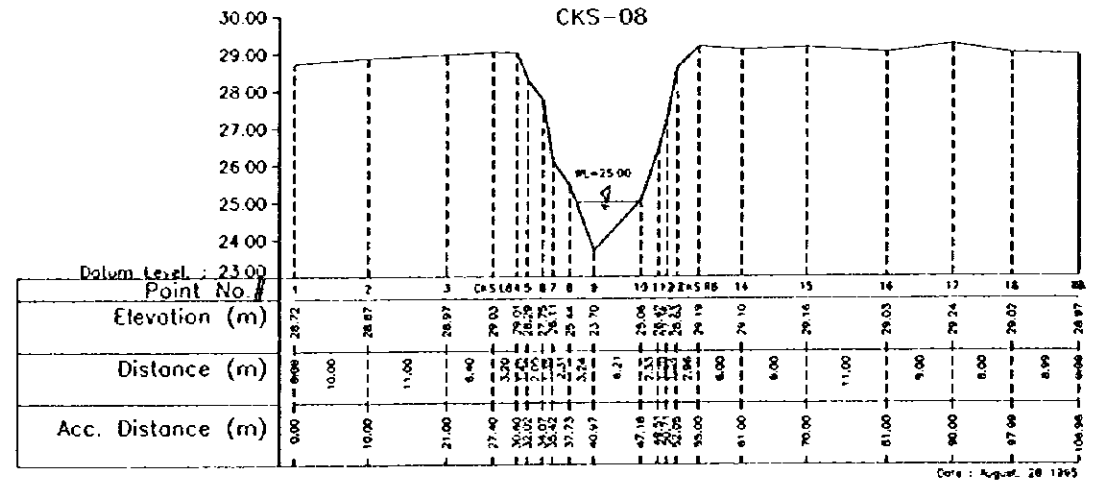
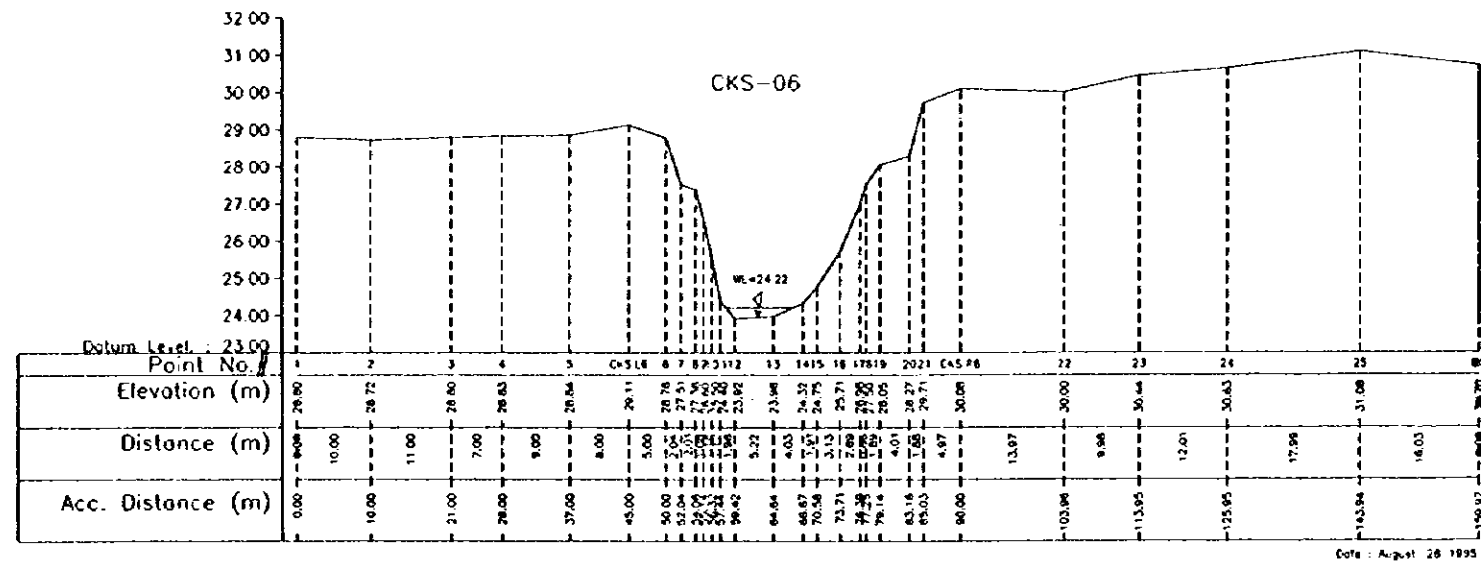
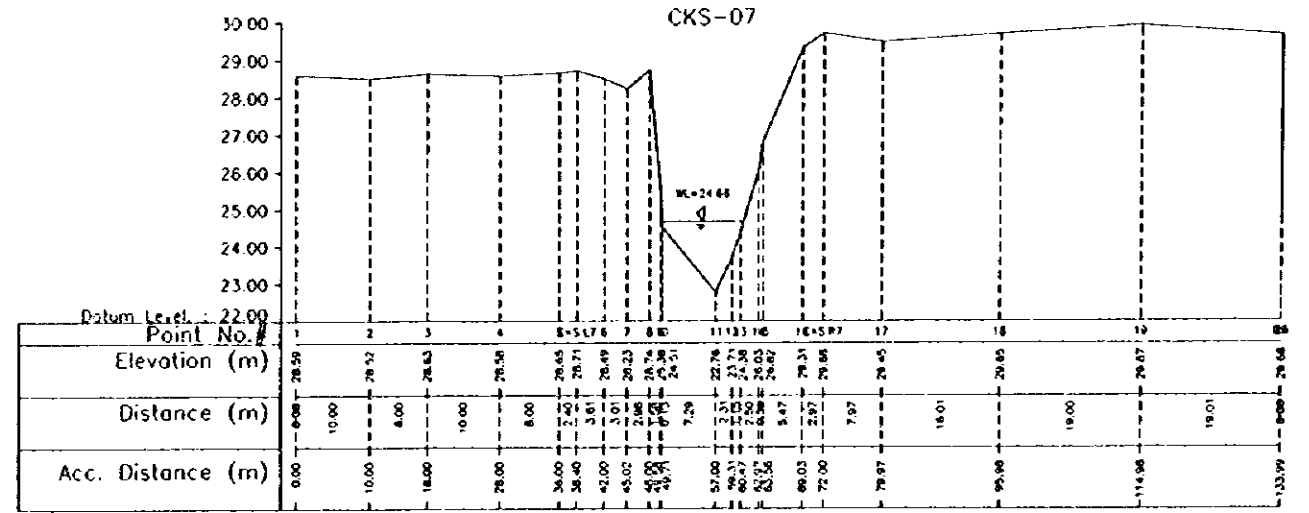
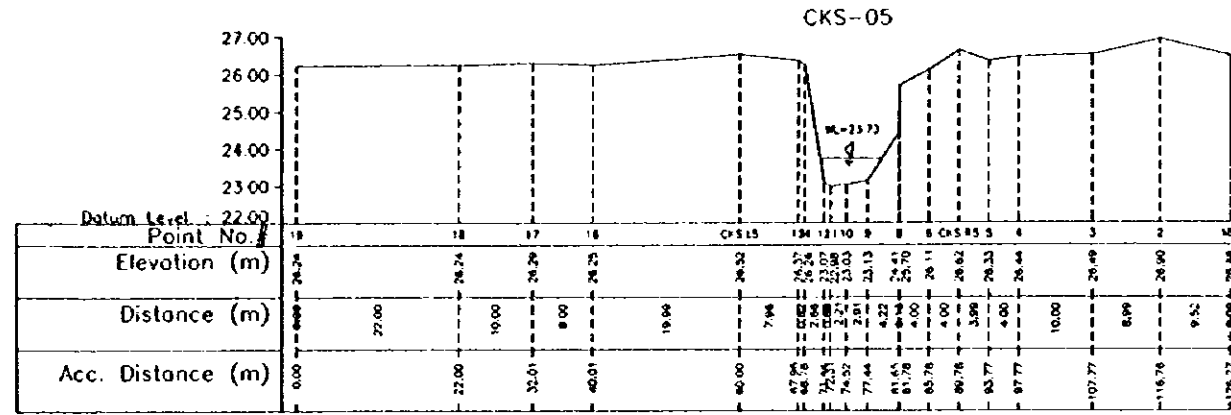
MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JASOTABEK

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

Checked by	Approved by	Scale	Sheet No
BRUNO SCSAP10	T. MAN K. TOPANE	Horizontal 1 : 500	1 of 2
Signature	Date	Vertical 1 : 100	

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Reference Point:
 The Elevation is referred to TIC 177 = 49.136 meters
 The correlation between other system are:
 TIC 177 ± 0 = NWP - 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 : CIKEAS RIVER		Drawing Title : CROSS SECTION	
Checked by : BRONHO	Approved by : R. TORRANE	Scale : Horizontal 1 : 500	Sheet No : 2 of 2
Signature : <i>[Signature]</i>	Date : <i>12/4/95</i>	Vertical 1 : 100	

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