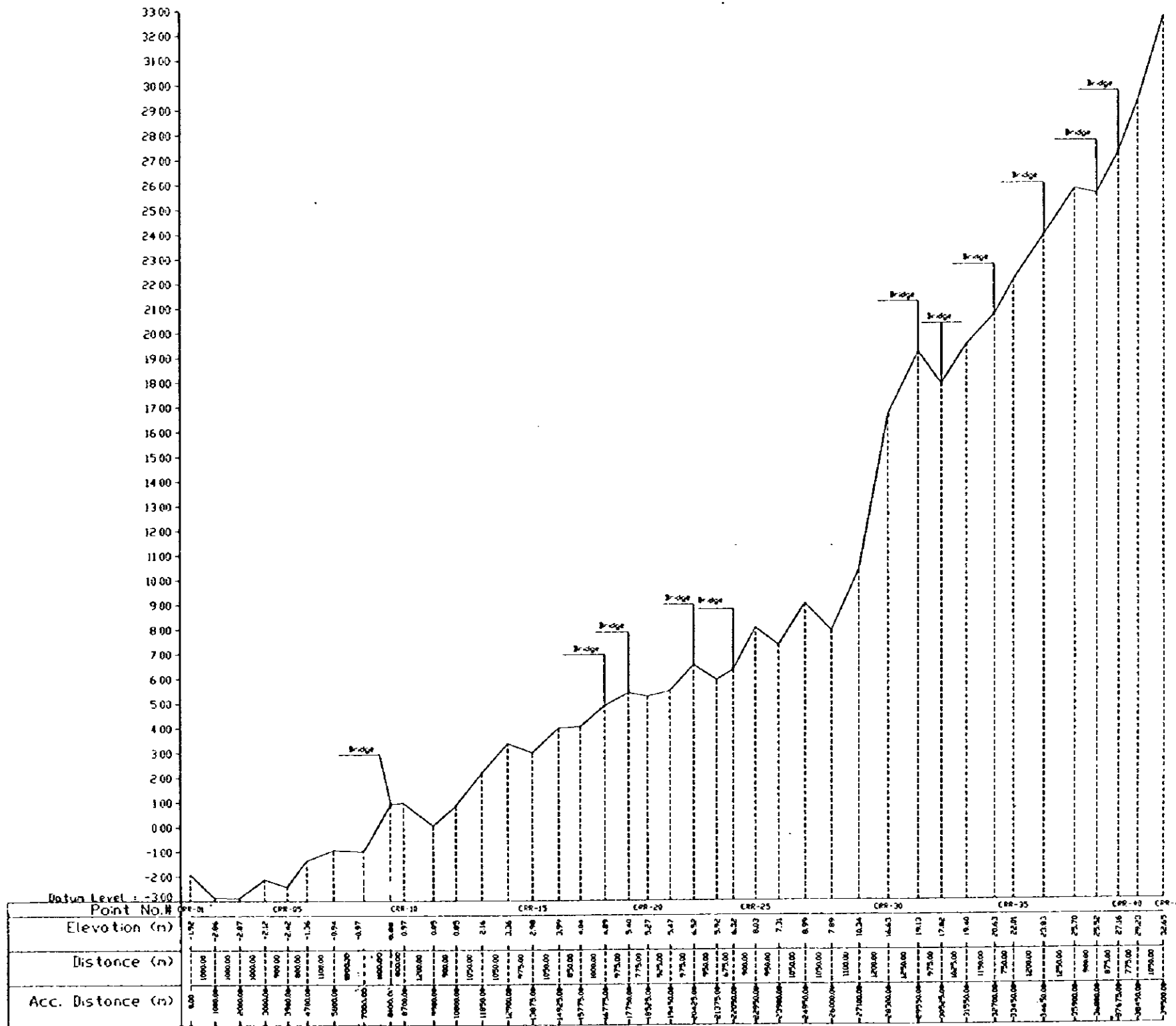


#### 4 River Survey of Cirarab River System (Cirarab River)



Reference Point:  
 The Elevation is referred to TIG 177 ( TIG 177 = 40 156 meters )  
 The correlation between other system are :  
 TIG 177 ± 0.0 = NAD + 0.875 meters = PP ± 1.25 meters

Scale: 1:100000  
 Horizontal 1 : 100000  
 Vertical 1 : 100

1 of 1

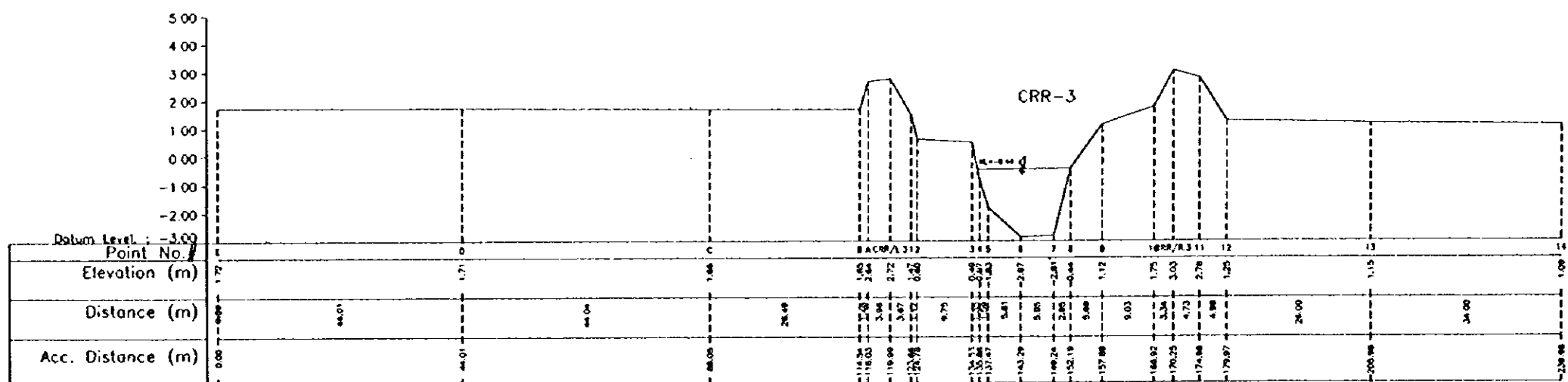
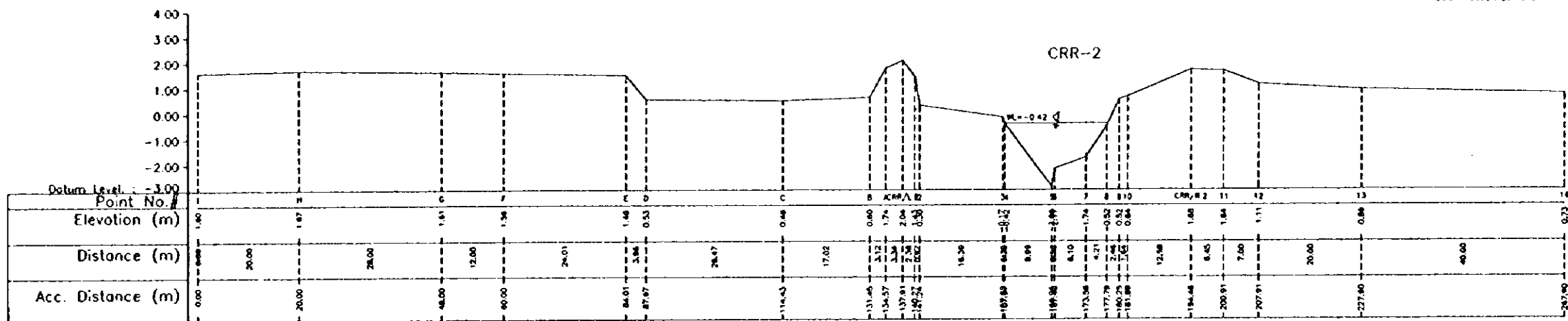
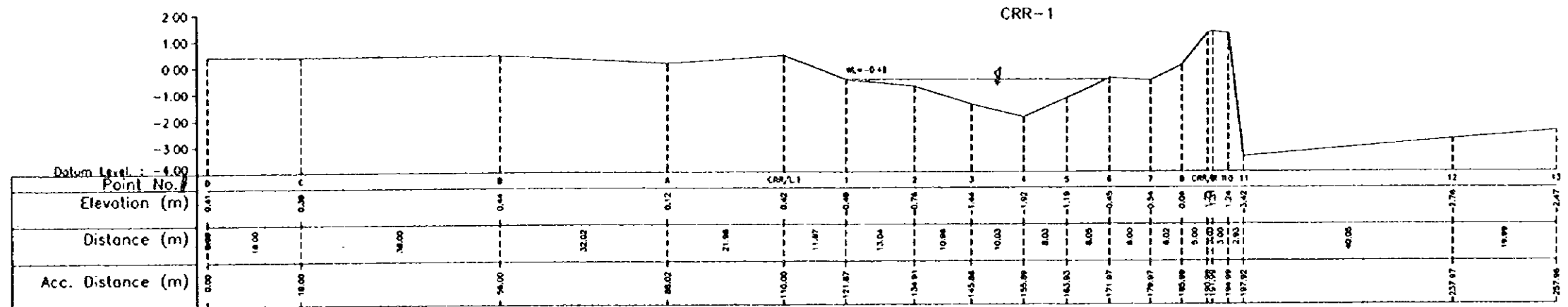
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

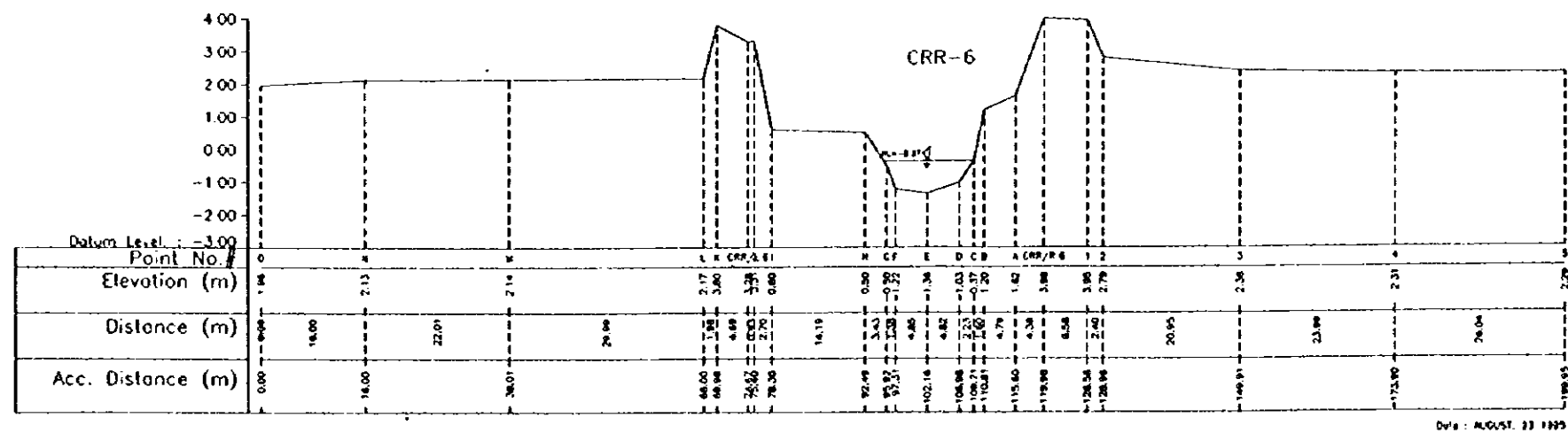
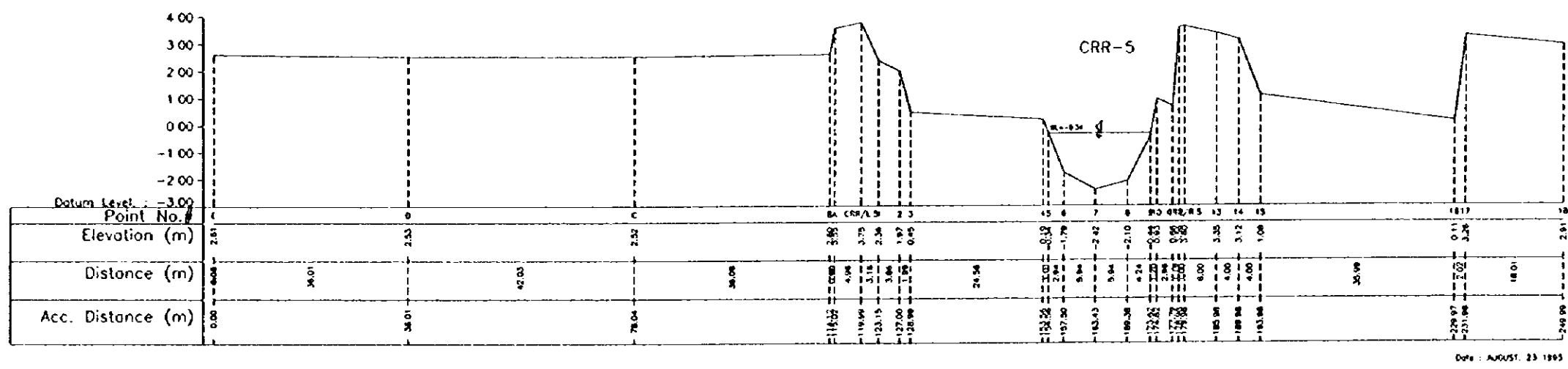
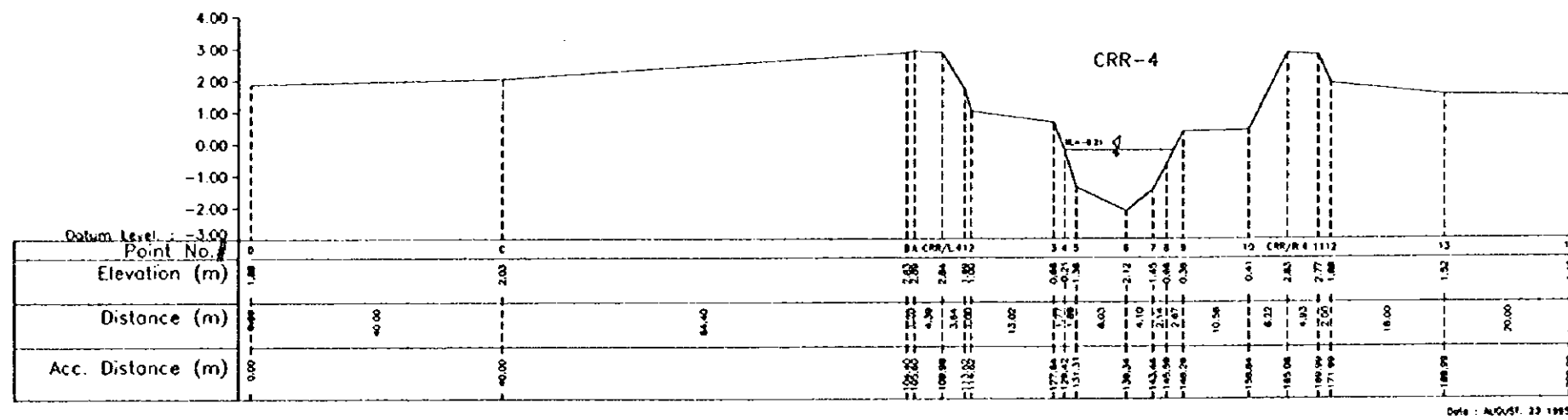
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CIRARAB RIVER  
 Drawing Title : LONGITUDINAL PROFILE

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

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 WATANABE & Associates JAKARTA - INDONESIA





Reference Point :  
 The Elevation is referred to TTG 177 = +0.136 meters  
 The correlation between other system are :  
 TTG 177 ± 0 = NWP = 0.975 meters = PP ± 0.1 meter

( IN METERS )  
 1:100  
 H<sub>0</sub> = 1.500

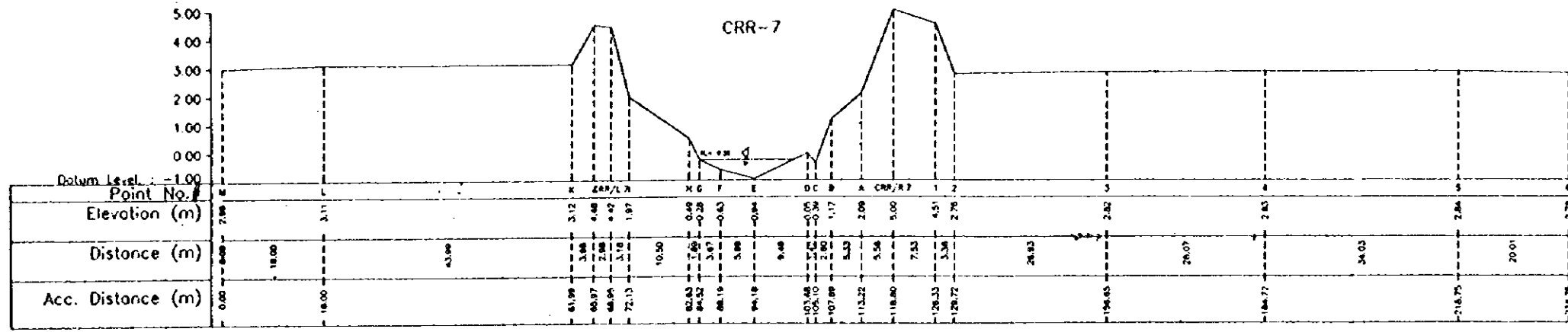
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

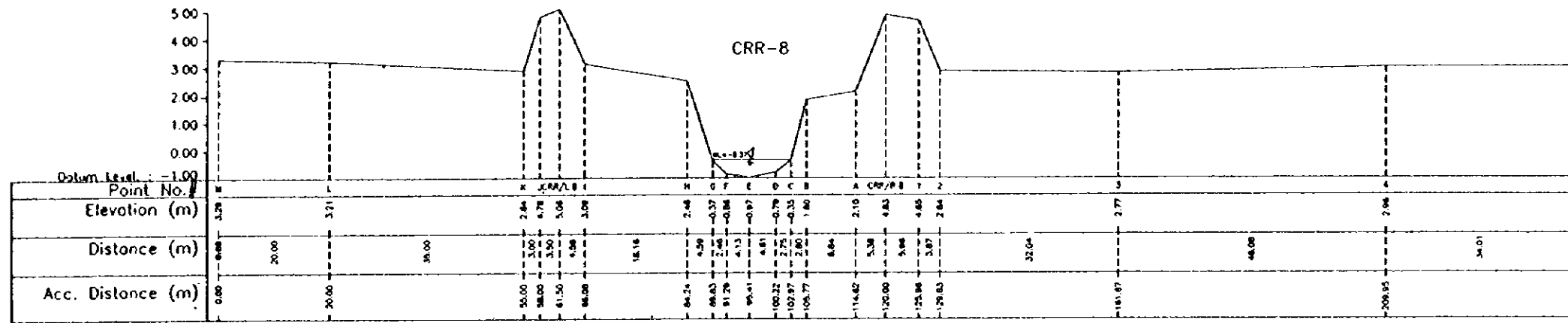
Name of River : **CIRARAB RIVER**      Drawing Title : **CROSS SECTION**

Created by	Approved by	Scale	Sheet No
B. SUDONO	B. TOPIKANE	Horizontal 1 : 500	2 of 15
Signature	Signature	Vertical 1 : 100	
Date	Date		

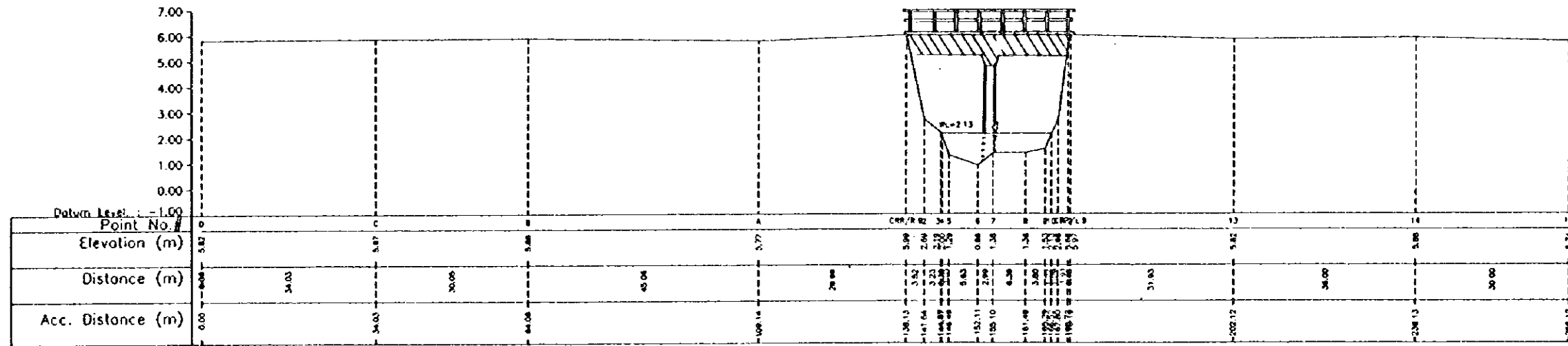
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WIDATMAN & Associates** JAKARTA - INDONESIA



Date: AUGUST 24 1995



Date: AUGUST 24 1995



Date: AUGUST 24 1995

Reference Point: The Elevation is referred to TTG 177 = 40.136 meters. The correlation between other system are: TTG 177 ± 0 = MHP - 0.923 meters = PP ± ... meter.

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

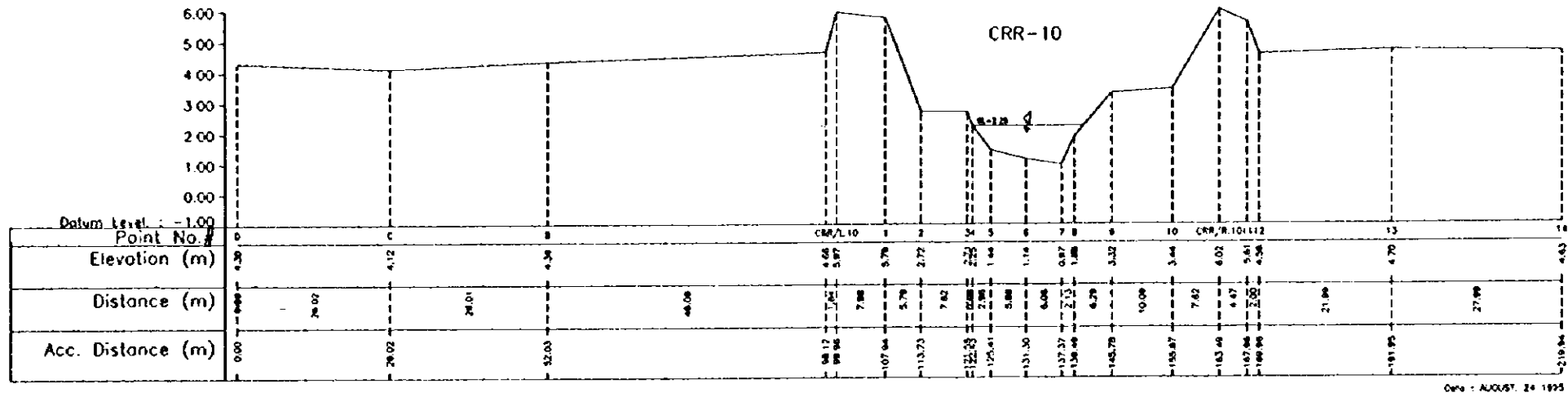
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River: CIRARAB RIVER  
Drawing Title: CROSS SECTION

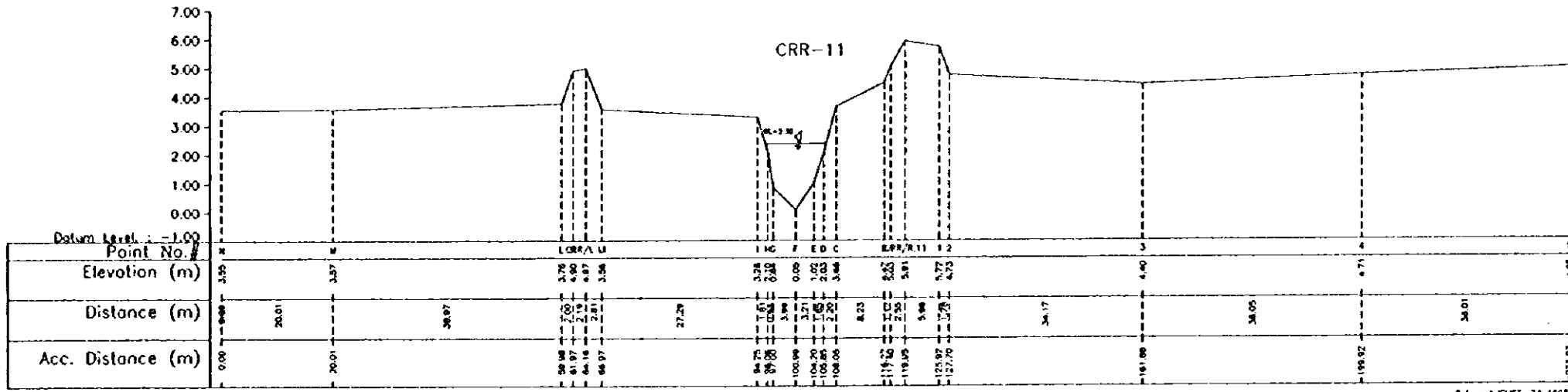
Checked by: B. SUDARNO, I. S. H. H. TORANE  
Approved by: [Signature], I. S. H. H. TORANE

Scale: Horizontal 1 : 500, Vertical 1 : 100  
Sheet No: 3 of 15

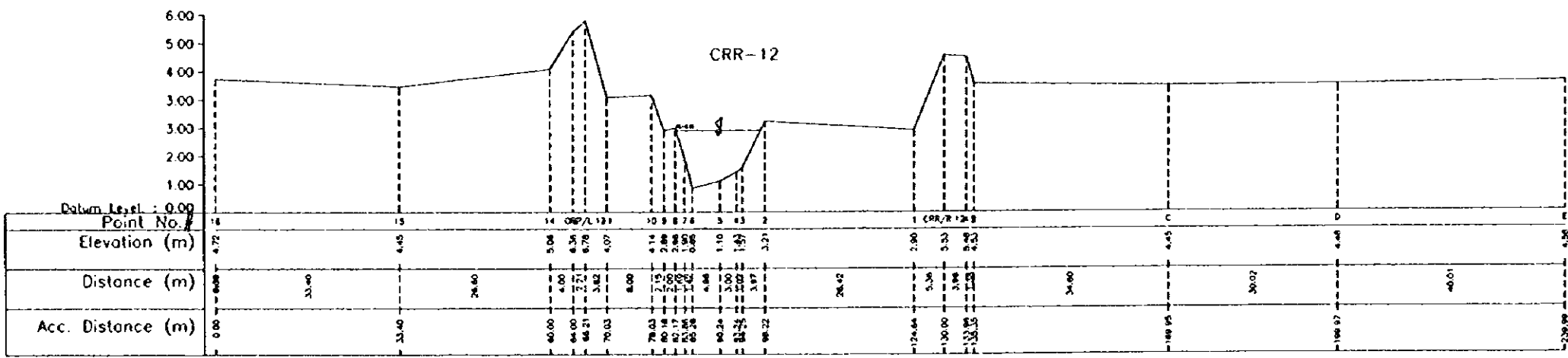
JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
WIRATMAN & Associates JAKARTA - INDONESIA



Date : AUGUST 24 1995



Date : AUGUST 24 1995



Date : AUGUST 24 1995

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

( IN METERS )  
 1 : 500

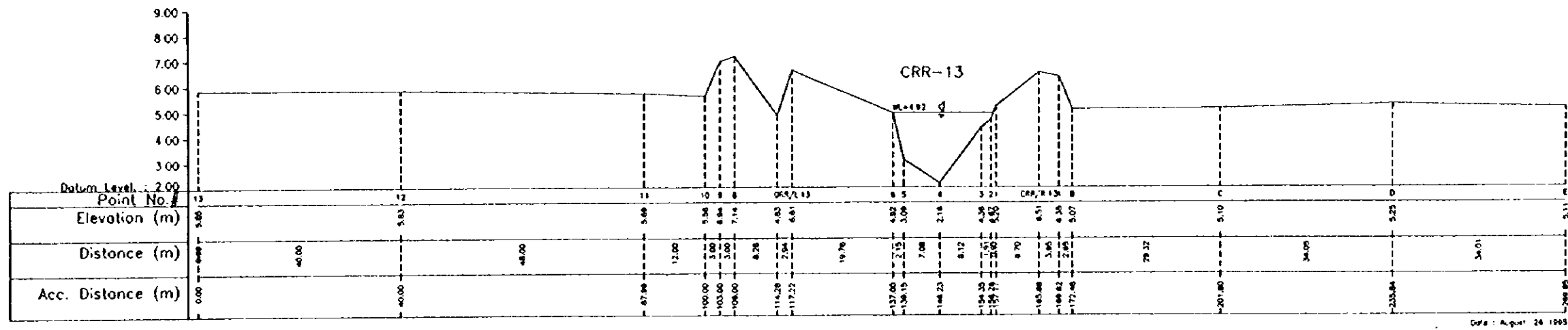
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

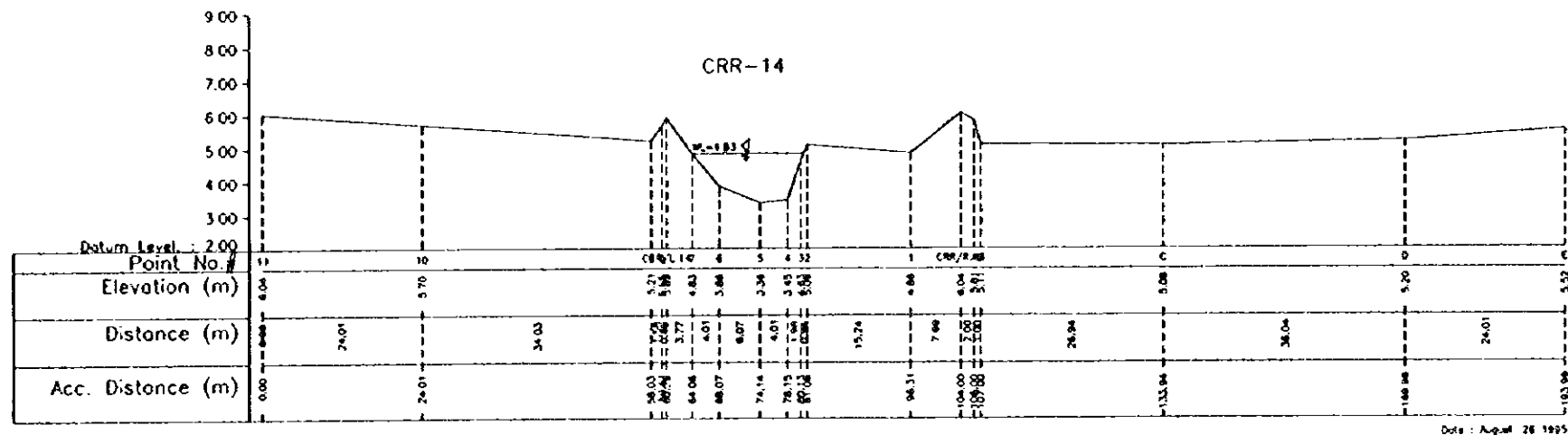
Name of River : CIRARAB RIVER  
 Drawing title : CROSS SECTION

Checked by	Approved by	Scale	Sheet No
BAWONO SOEDARJO	T. HAN K. JURNANE	Horizontal 1 : 500 Vertical 1 : 100	4 of 15

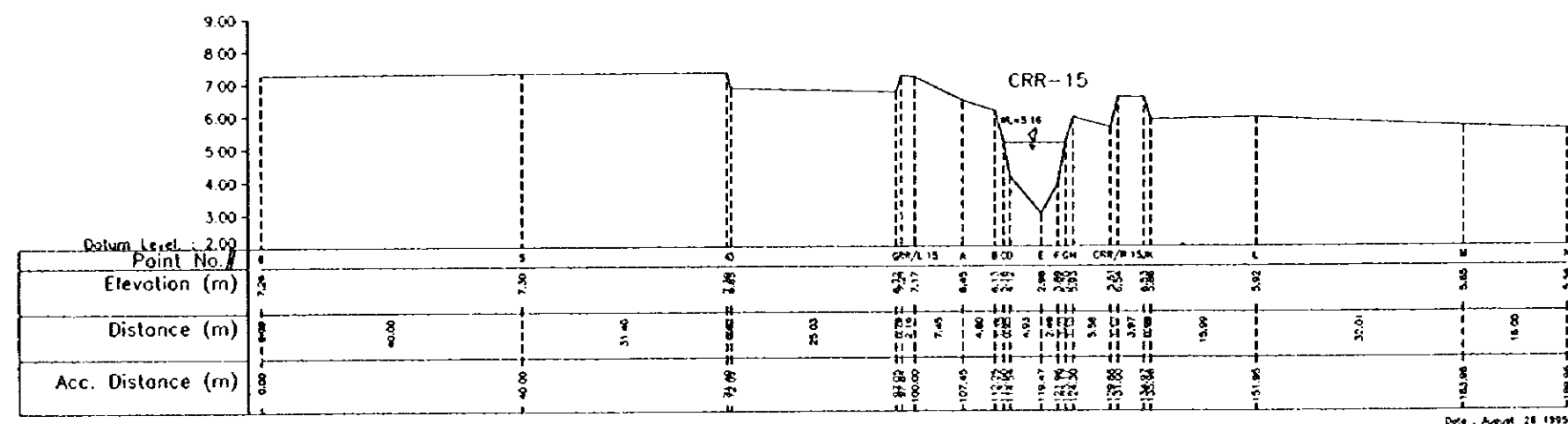
JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 WIJATMAN & Associates  
 JAKARTA - INDONESIA



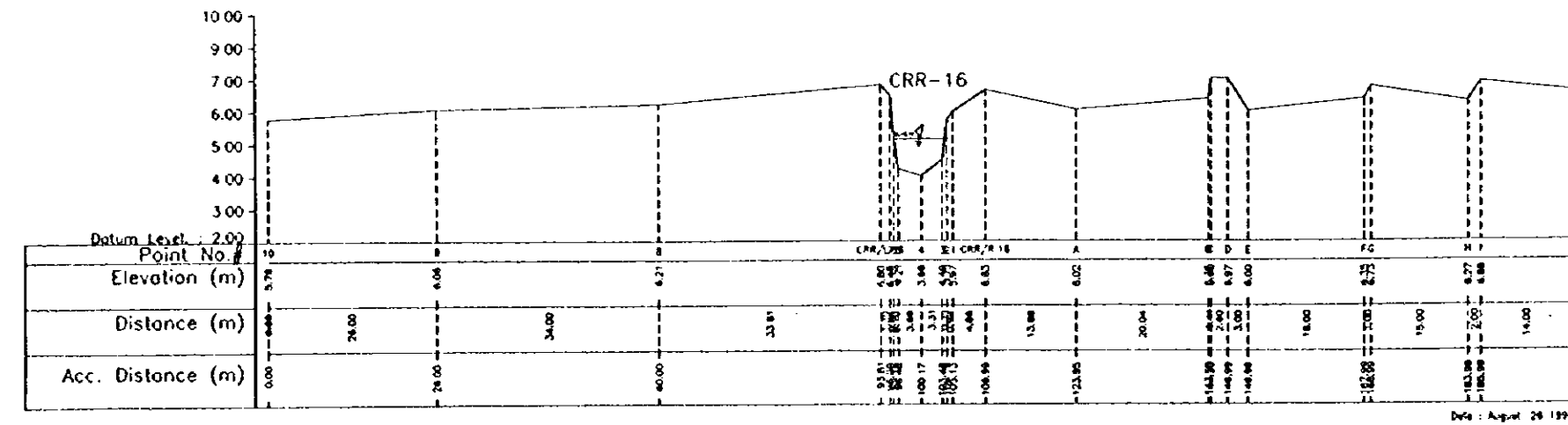
Date: August 28 1995



Date: August 28 1995



Date: August 28 1995



Date: August 28 1995

Reference Point:  
 The Elevation is referred to TIC 177 = 40.136 meters  
 The correlation between other system are:  
 TIC 177 ± 0 = 34P - 0.975 meters = PP ± 0 meter

( IN METERS )  
 1:100  
 1:500

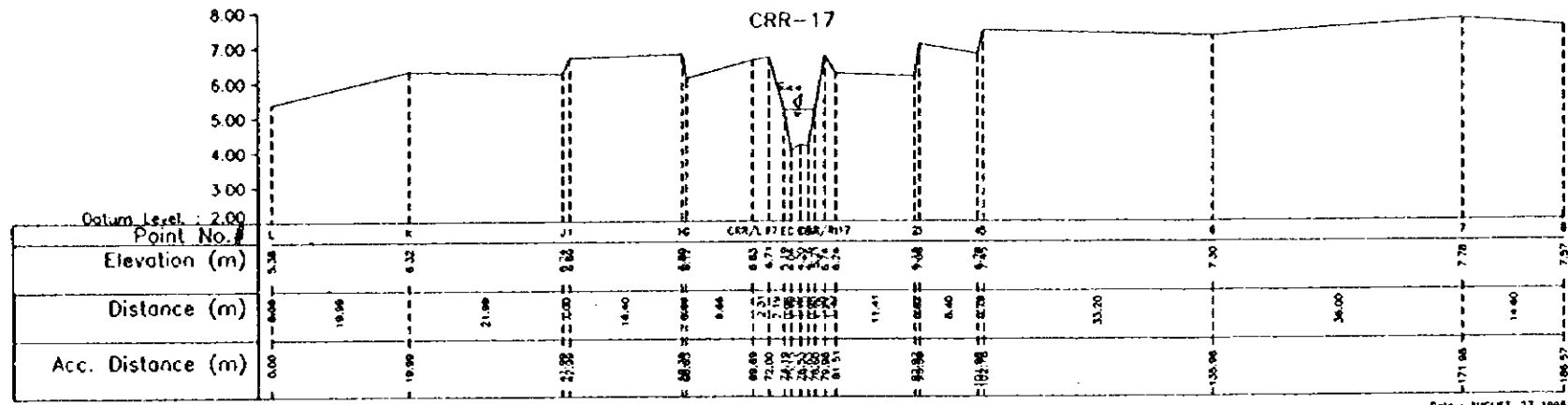
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

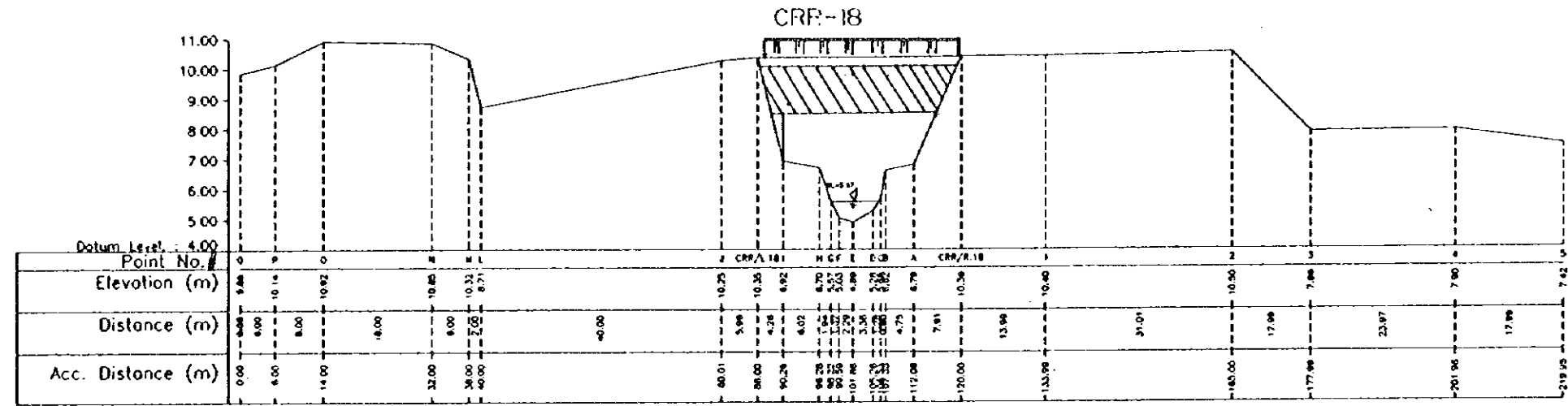
Name of River : **CIRARAB RIVER**      Drawing Title : **CROSS SECTION**

Checked by: [Signature]      Approved by: [Signature]      Scale: Horizontal 1:500, Vertical 1:100      Sheet No: 5 of 15

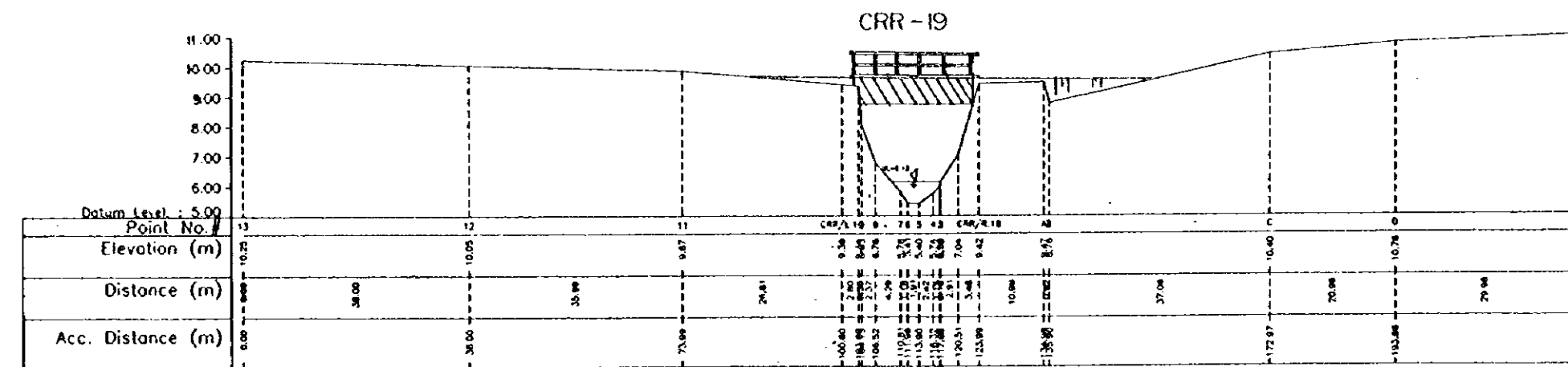
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WRATMAN & Associates** JAKARTA - INDONESIA



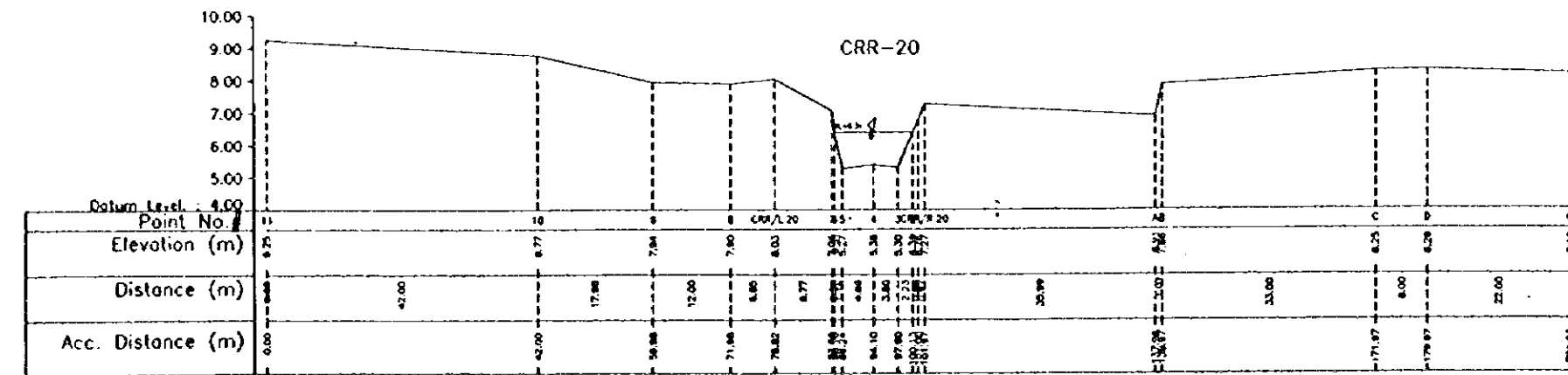
Date : AUGUST 27 1995



Date : AUGUST 27 1995



Date : AUGUST 27 1995



Date : AUGUST 27 1995

Reference Point :  
 The Elevation is referred to TIC 177 = 40.136 meters  
 The correlation between other system are :  
 TIC 177 ± 0 = WPP - 0.975 meters = PP + 1.02 meter

( IN METERS )  
 1 : 500

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

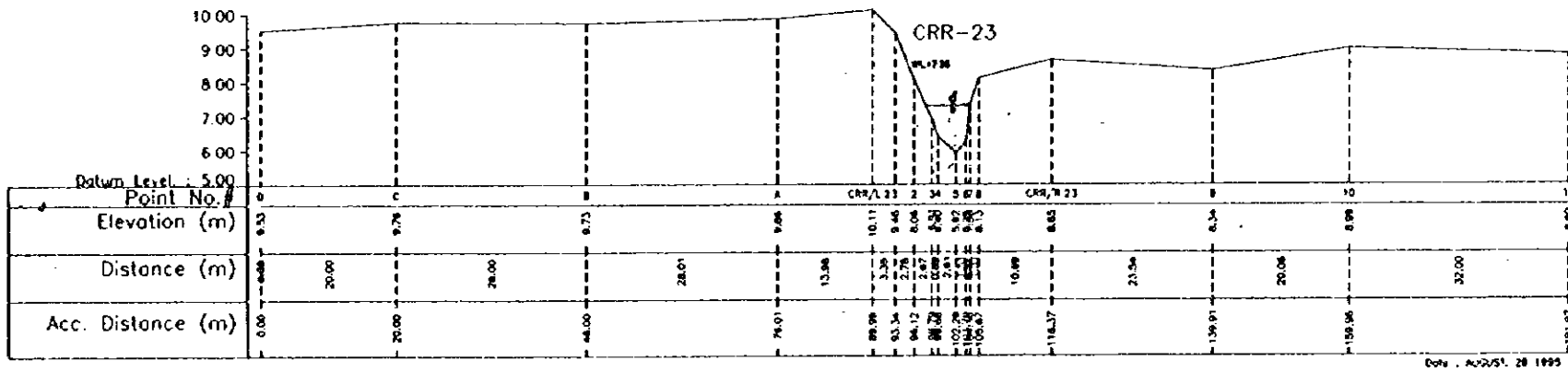
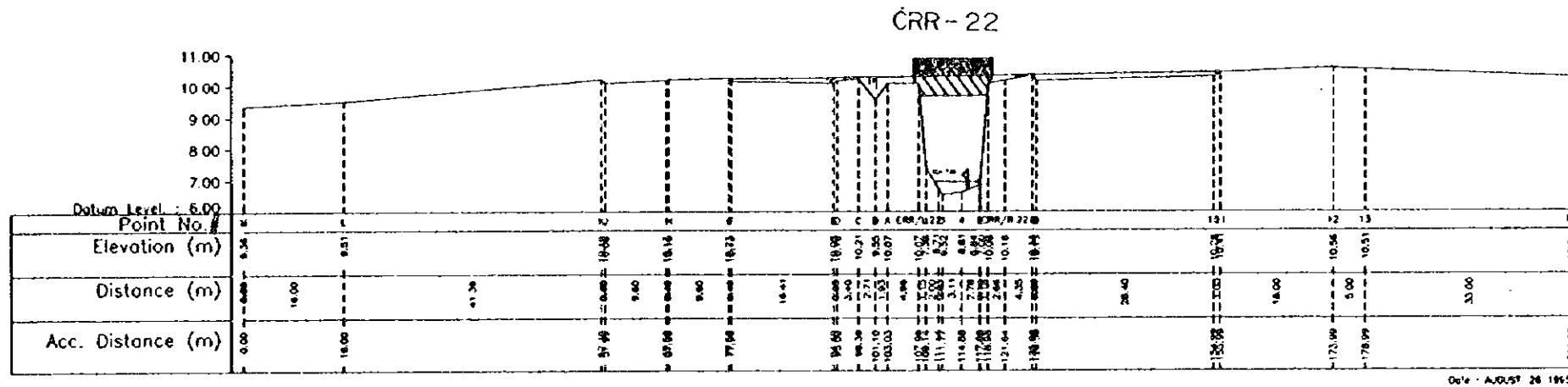
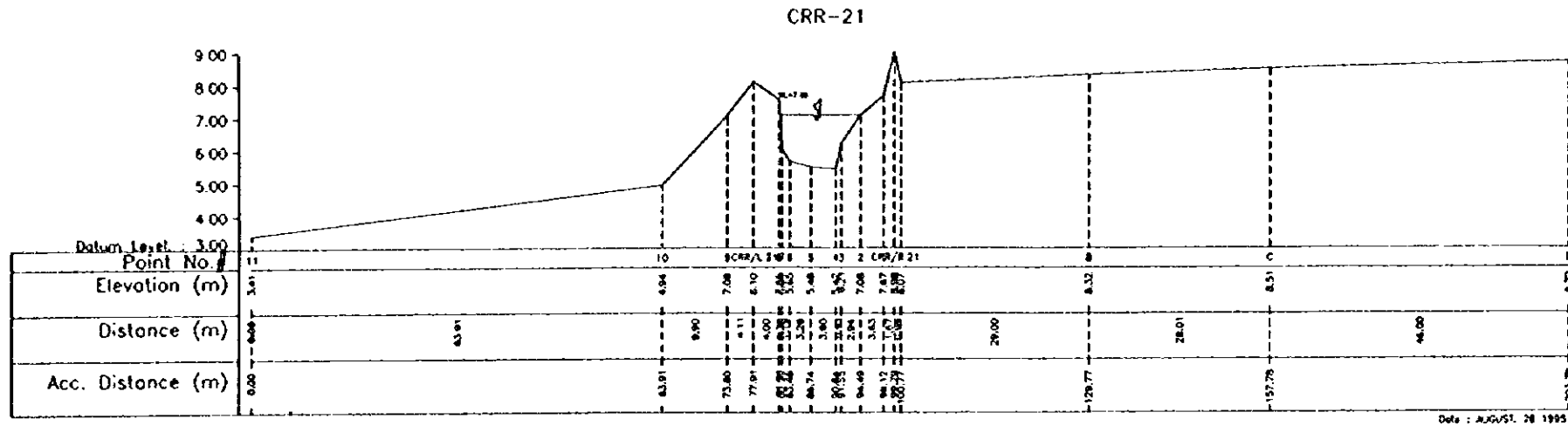
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CIRARAB RIVER  
 Drawing Title : CROSS SECTION

Checked by	Approved by	Scale	Sheet No
B. H. H. H.	R. H. H. H.	Horizontal 1 : 500 Vertical 1 : 100	6 of 15

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 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 = WMP - 0.875 meters = PP ± 11.0 meter

( IN METERS )

1:500

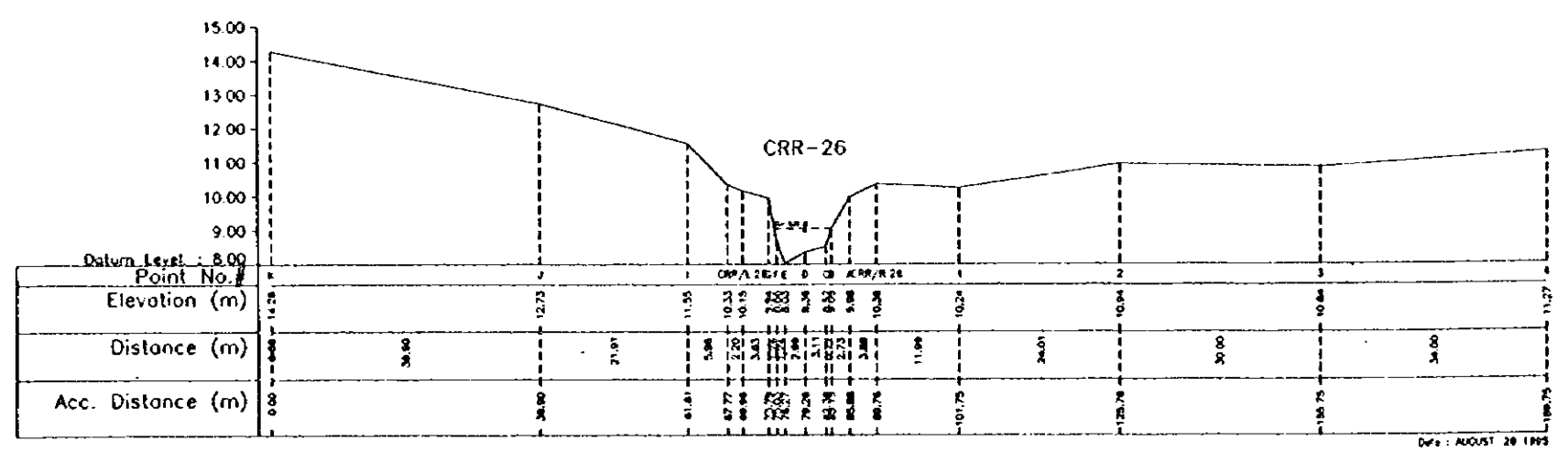
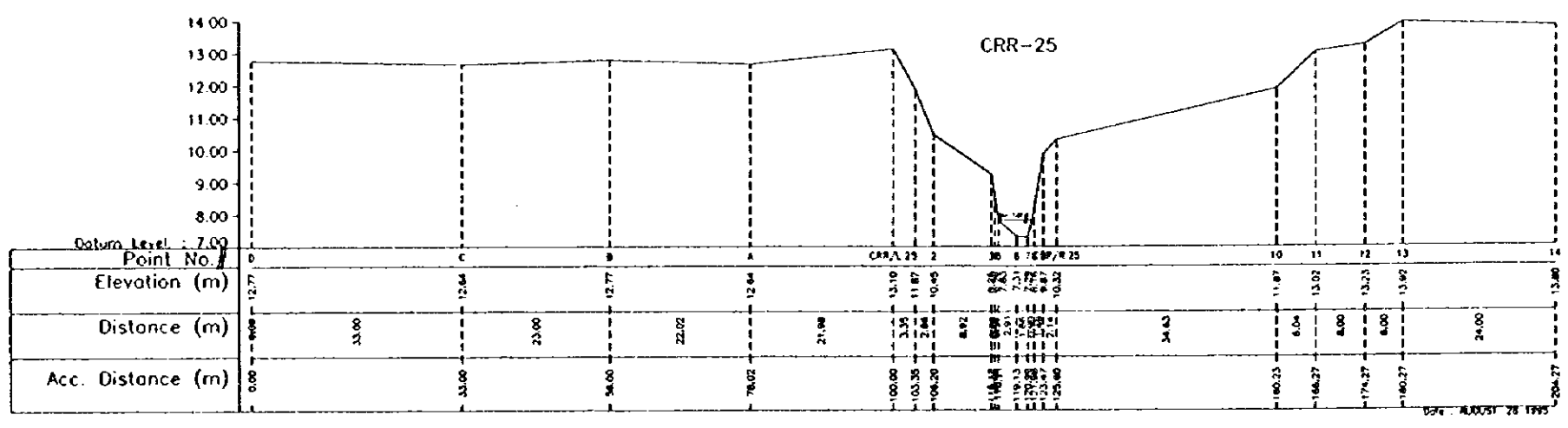
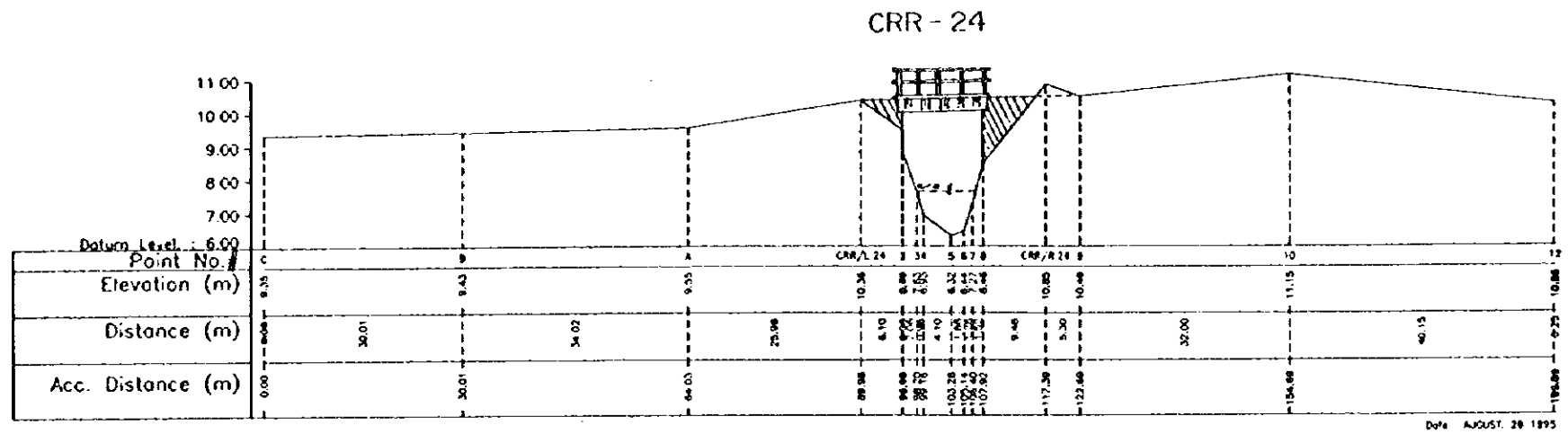
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

Name of River : <b>CIRARAB RIVER</b>				Drawing Title : <b>CROSS SECTION</b>	
Checked by		Approved by		Scale	Sheet No.
Name :	BRANDI SOEDIPRO	T. NUR	K. TORONG	Horizontal 1 : 500	7 of 15
Signature :	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	Vertical 1 : 100	
Date :	10.06.95	11.08.95	30.11.95		

**JICA** JAPAN INTERNATIONAL  
COOPERATION AGENCY

**WIRATMAN & Associates**  
JAKARTA - INDONESIA



**Reference Point :**  
 The Elevation is referred to TIG 177 = 40.158 meters  
 The correlation between other system are  
 TIG 177 ± 0 = NWP - 0.875 meters = PP ± ... meter

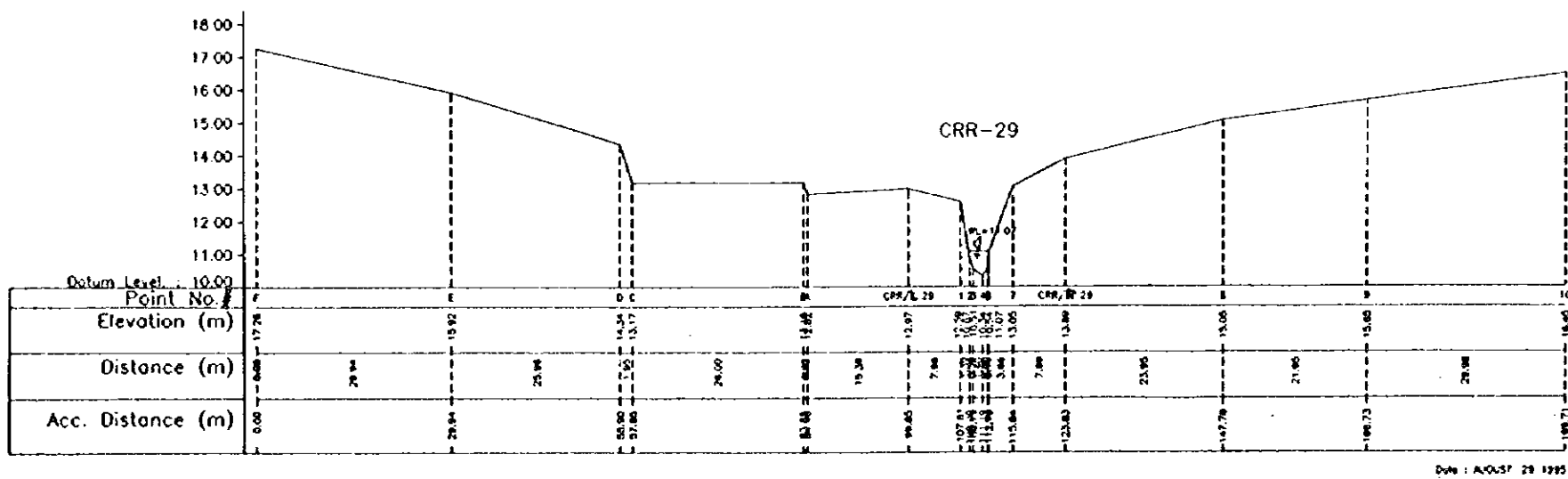
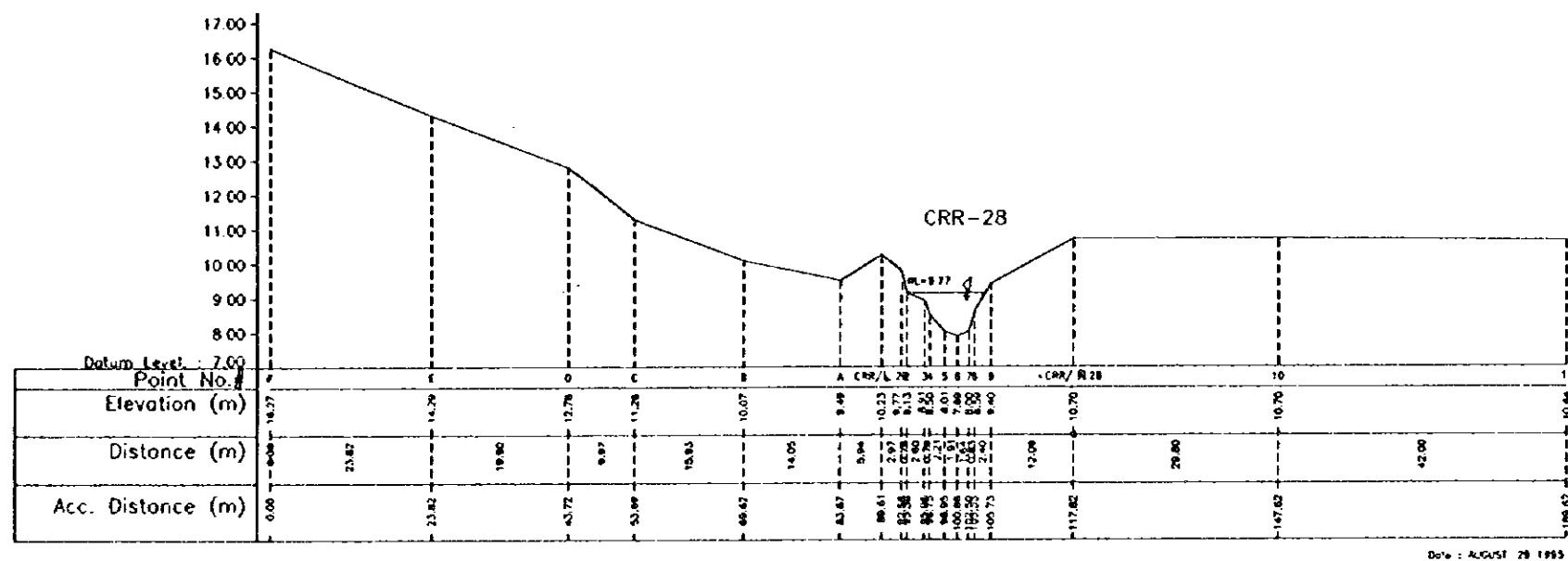
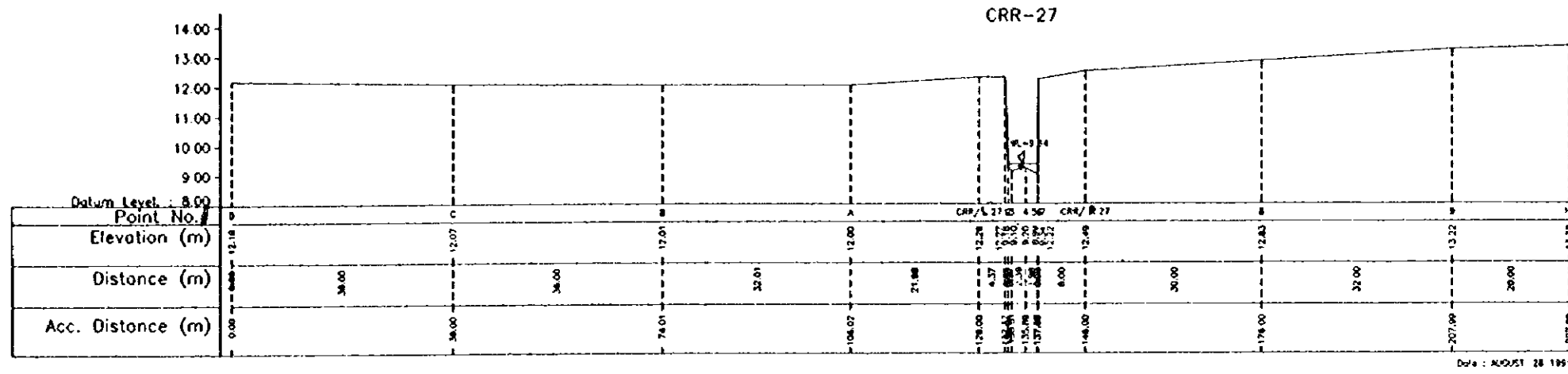
( IN METERS )

**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 : <b>CIRARAB RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by : <b>BANDU SOEDARTO</b>	Approved by : <b>R. Tuhani</b>	Scale : <b>Horizontal 1 : 500</b>	Sheet No : <b>8 of 15</b>
Date : <b>20.11.95</b>		Vertical : <b>1 : 100</b>	

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY
**WATAMAN & 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 + 1.000 meter

( IN METERS )

1 : 500

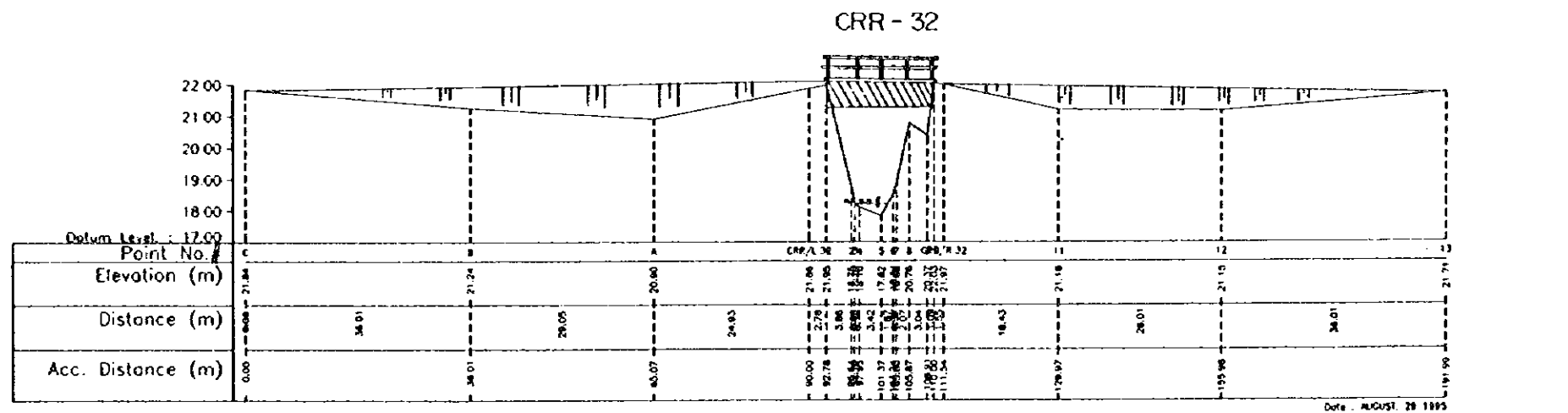
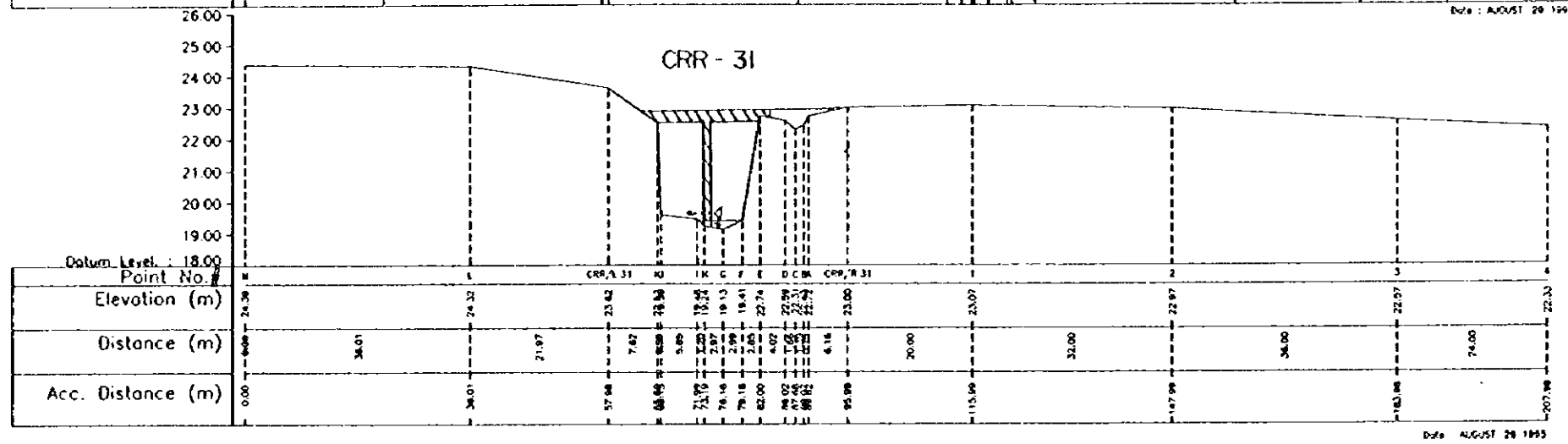
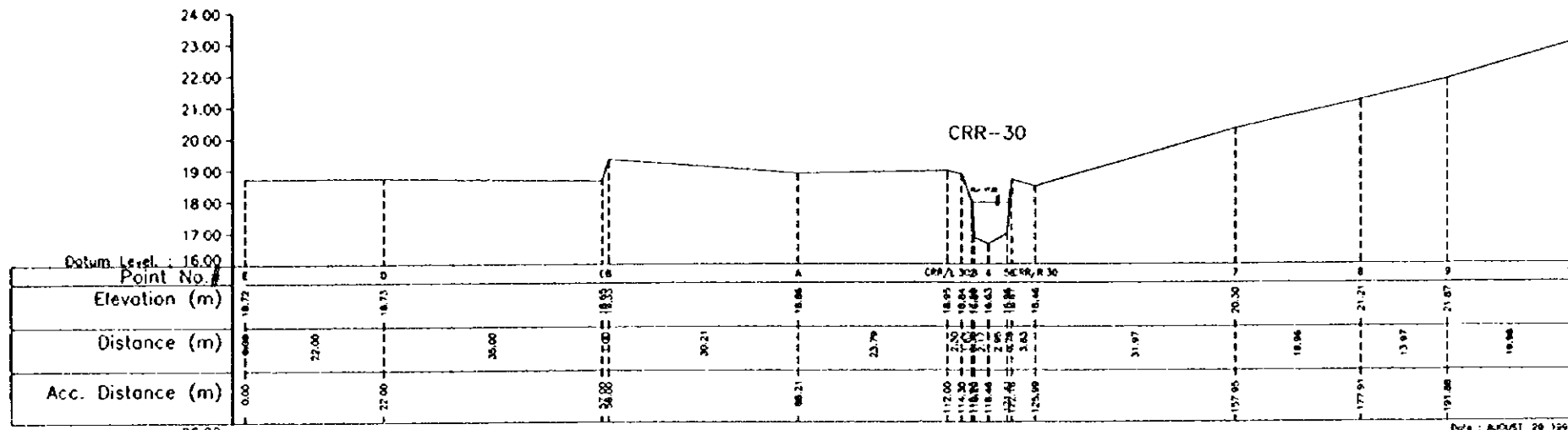
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

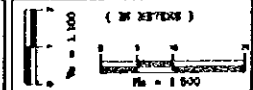
Name of River : <b>CIRARAB RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by Suryono	Approved by K. Soeman	Scale Horizontal 1 : 500 Vertical 1 : 100	Sheet No. 9 of 15

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

**WHATMAN & Associates**  
 JAKARTA - INDONESIA



Reference Point :  
 The Elevation is referred to ITC 177 = 40.138 meters  
 The correlation between other system are :  
 ITC 177 ± 0 = NWP = 0.975 meters ± PP + ... meter



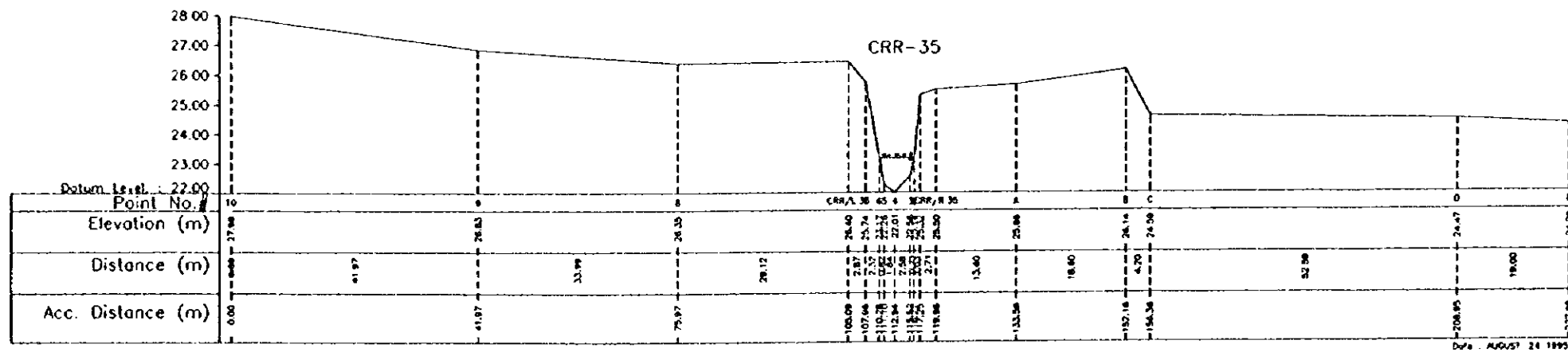
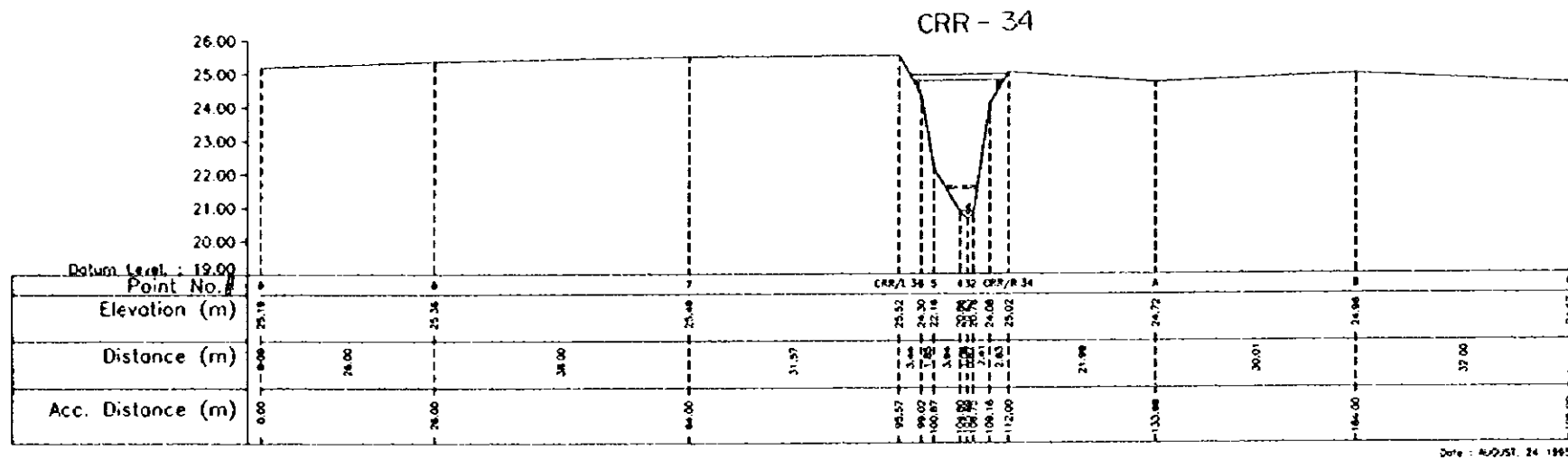
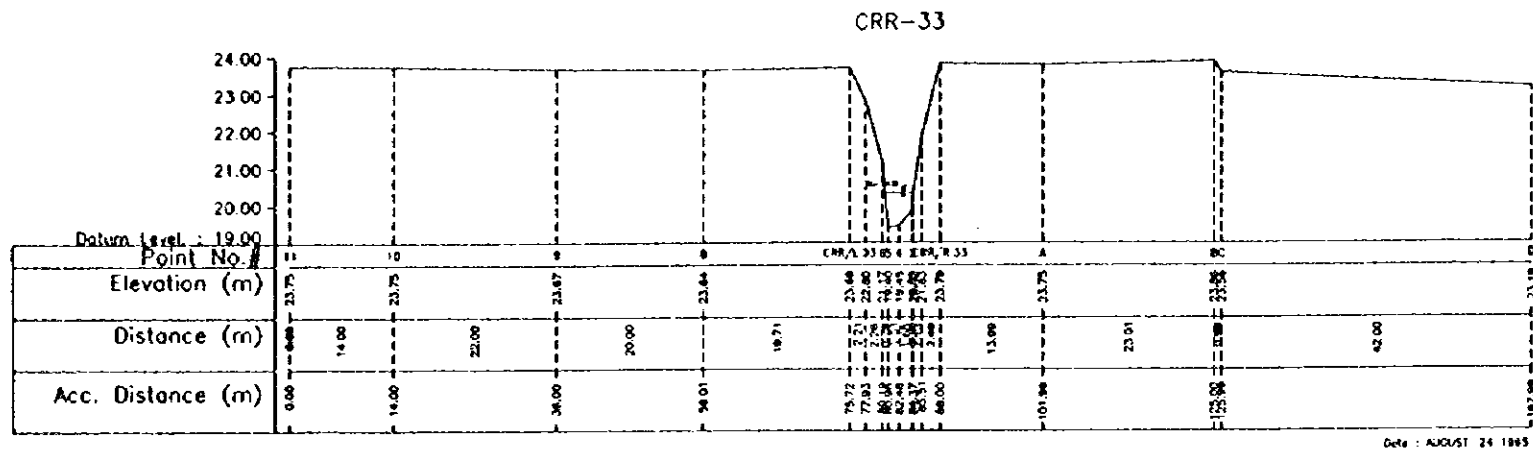
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JASOTASEK**

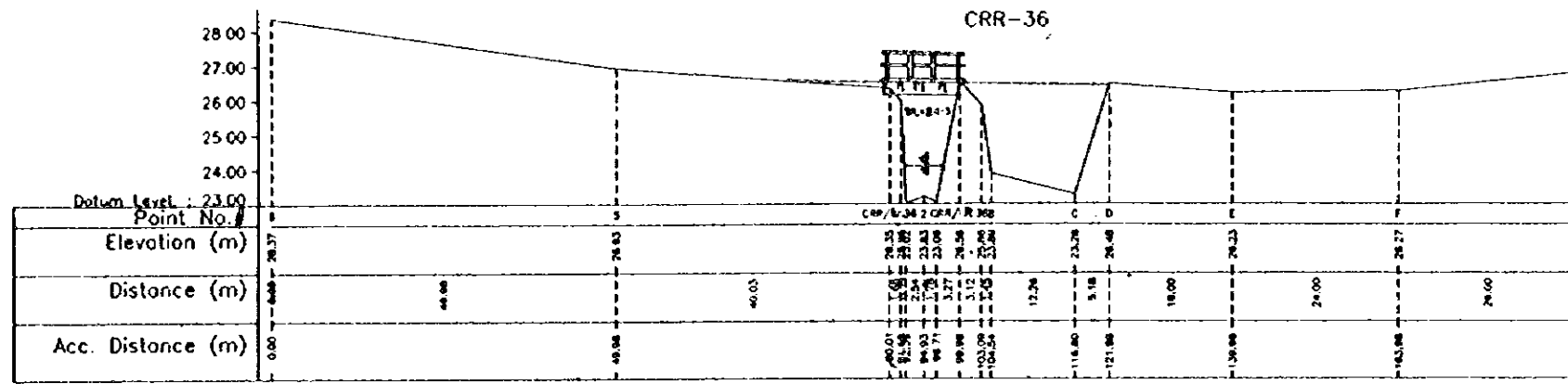
Name of River : **CIRARAB RIVER**      Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
BRUNO SUCAPRO	I. SUTISNA	Horizontal 1:500	10 of 15
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Vertical 1:100	
Date: 10-21-95	Date: 11-11-95		

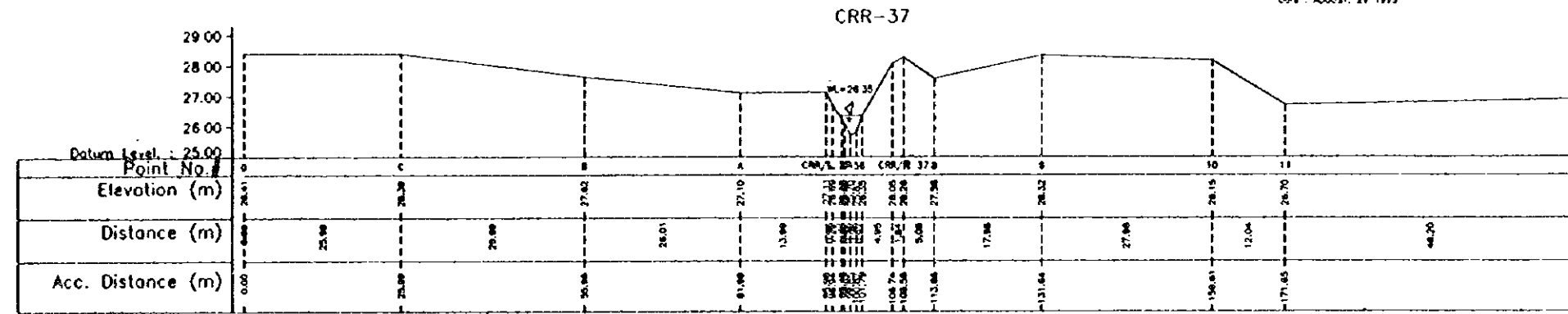
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WIRATMAN & Associates** JAKARTA - INDONESIA



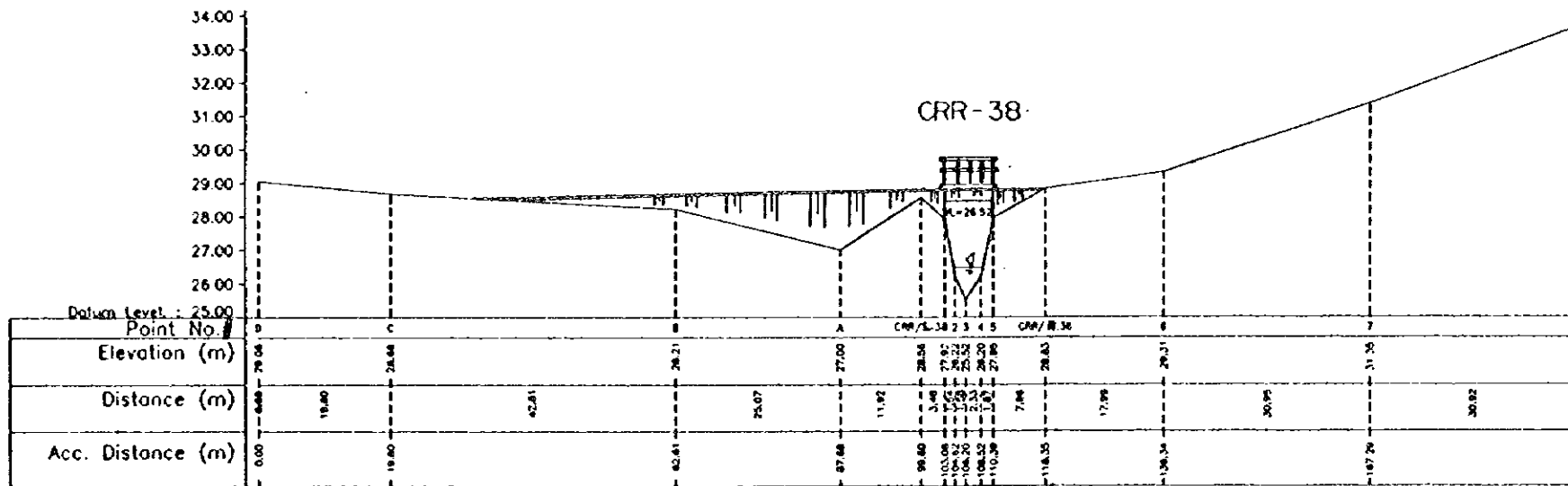
Reference Point: The Elevation is referred to TIG 177 = 40.136 meters The correlation between other system are: TIG 177 ± 0 = HWP - 0.875 meters = PP ± meter			
<b>MINISTRY OF PUBLIC WORKS</b> <b>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT</b> <b>CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT</b>			
<b>THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK</b>			
Name of River : <b>CIRARAB RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by: Name: <i>BAGHO</i> Signature: <i>[Signature]</i> Date: <i>20.11.95</i>	Approved by: Name: <i>[Signature]</i> Signature: <i>[Signature]</i> Date: <i>20.11.95</i>	Scale: Horizontal: 1 : 500 Vertical: 1 : 100	Sheet No: 11 of 15
<b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY		<b>WIRATAMA &amp; Associates</b> JAKARTA - INDONESIA	



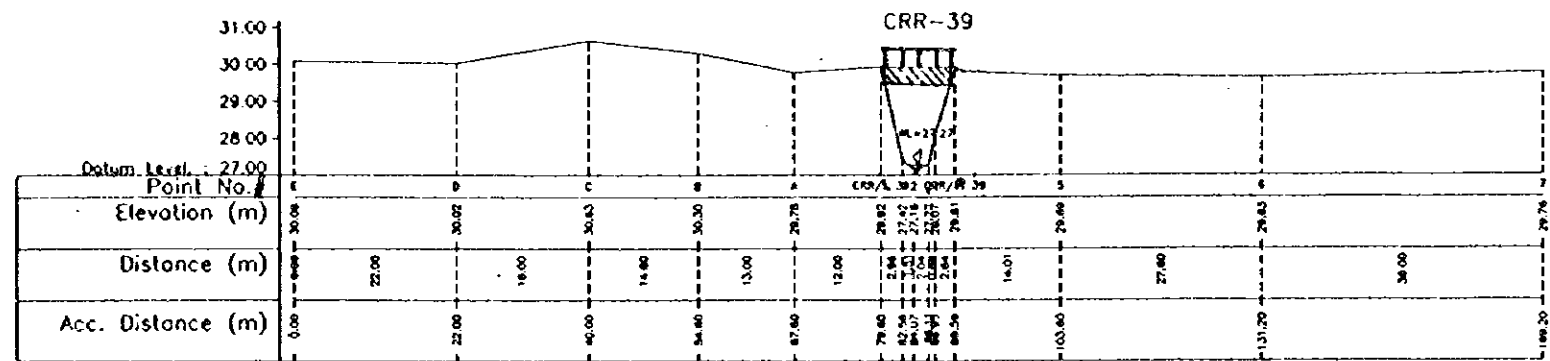
Date : AUGUST 29 1995



Date : AUGUST 29 1995



Date : AUGUST 29 1995



Date : AUGUST 29 1995

Reference Point :  
 The Elevation is referred to TIG 177 = 40.136 meters  
 The correlation between other system are :  
 TIG 177 ± 0.0 = NWP - 0.975 meters = PP ± 0.0 meter

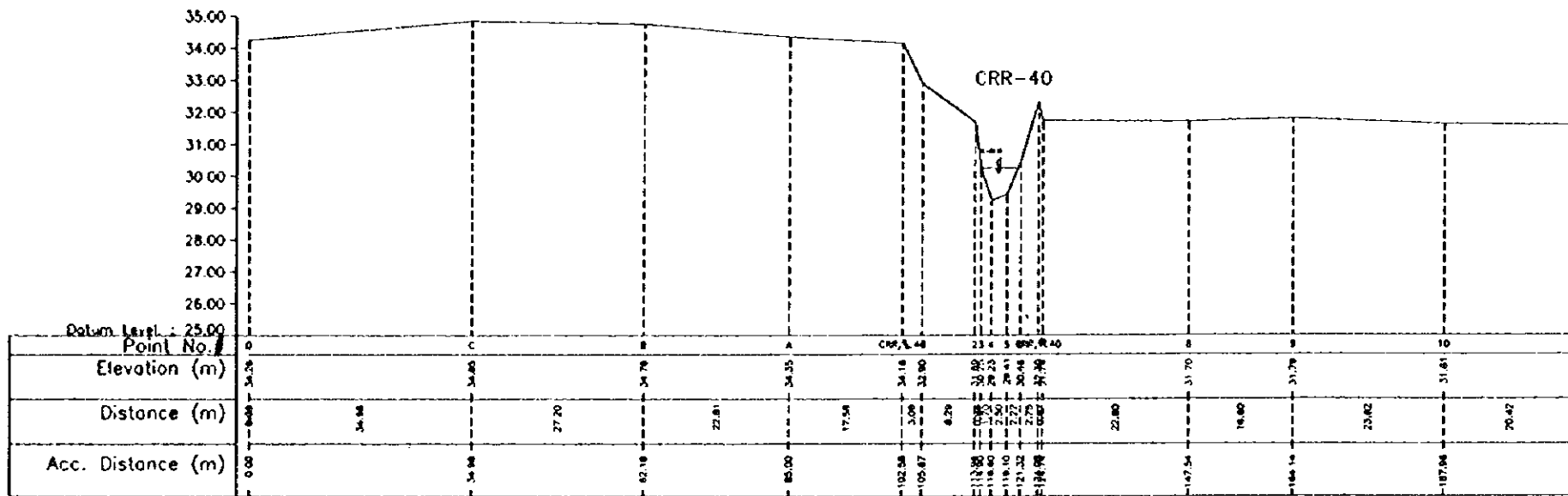
( IN METERS )  
 1 : 500  
 1 : 100  
 1 : 500

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

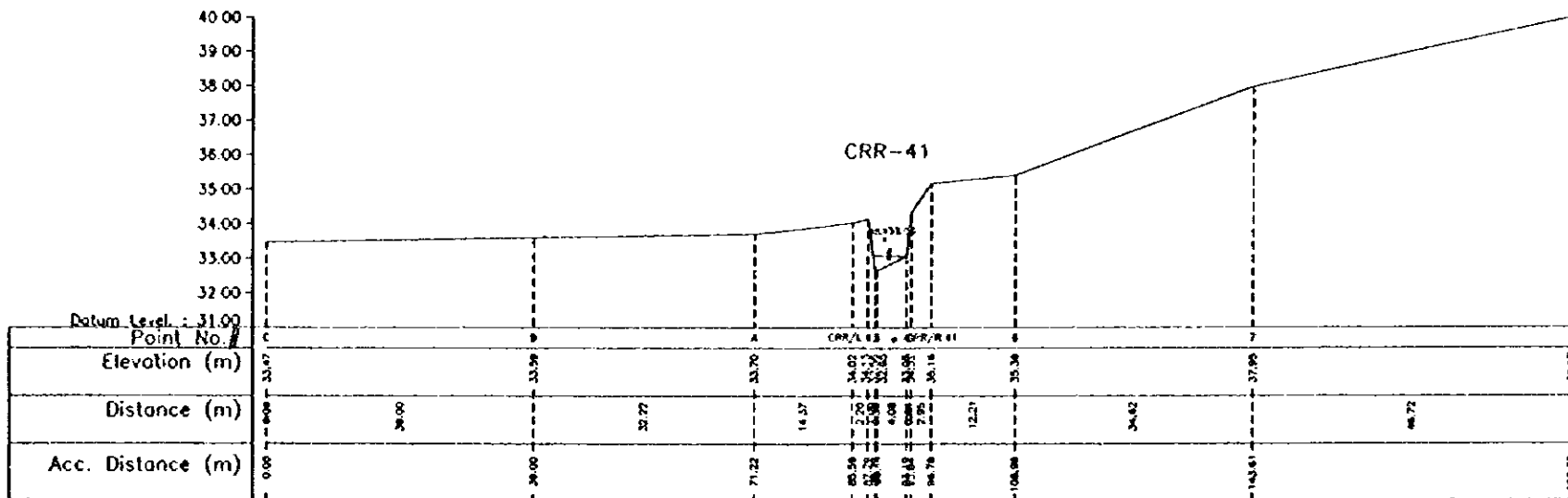
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

Name of River : <b>CIRARAB RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by BAWONO SOETARDO	Approved by Y. S. H. K. TORPANE	Scale Horizontal 1 : 500 Vertical 1 : 100	Sheet No. 12 of 15

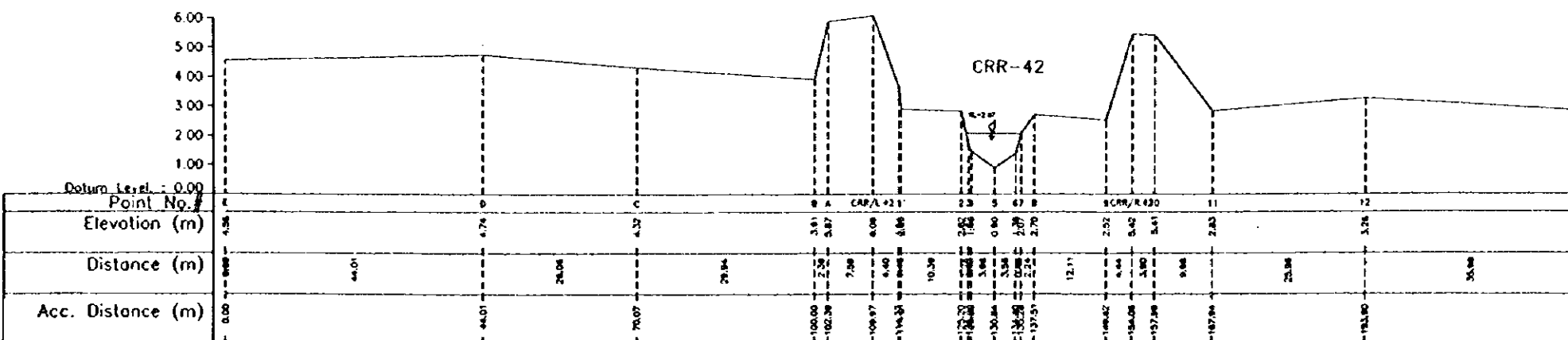
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
**WIJATMAN & Associates** JAKARTA - INDONESIA



Date : AUGUST 29 1995



Date : AUGUST 29 1995



Date : AUGUST 29 1995

Reference Point :  
 Peg 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 )  
 1 : 500  
 1 : 100

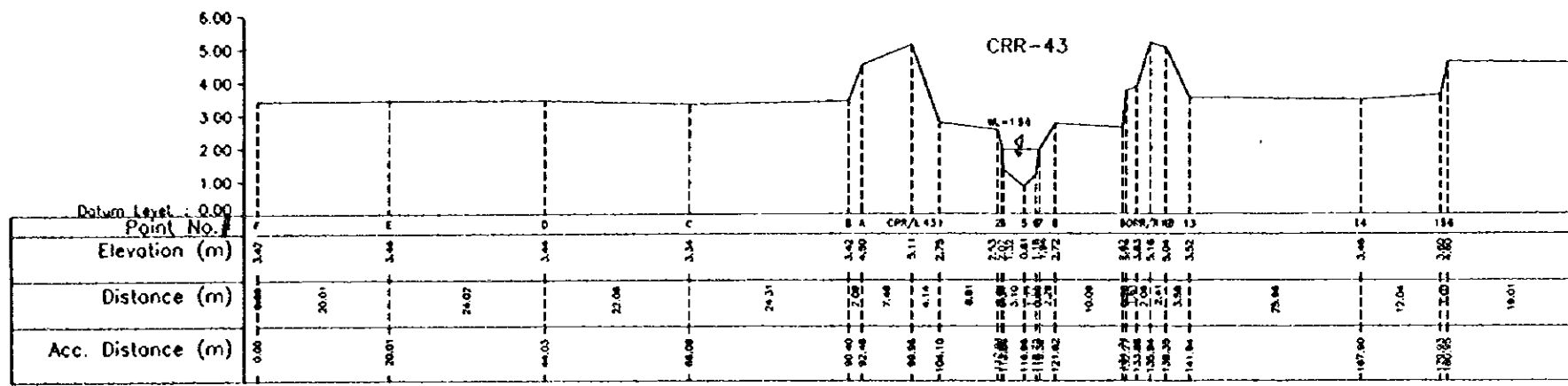
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNO CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

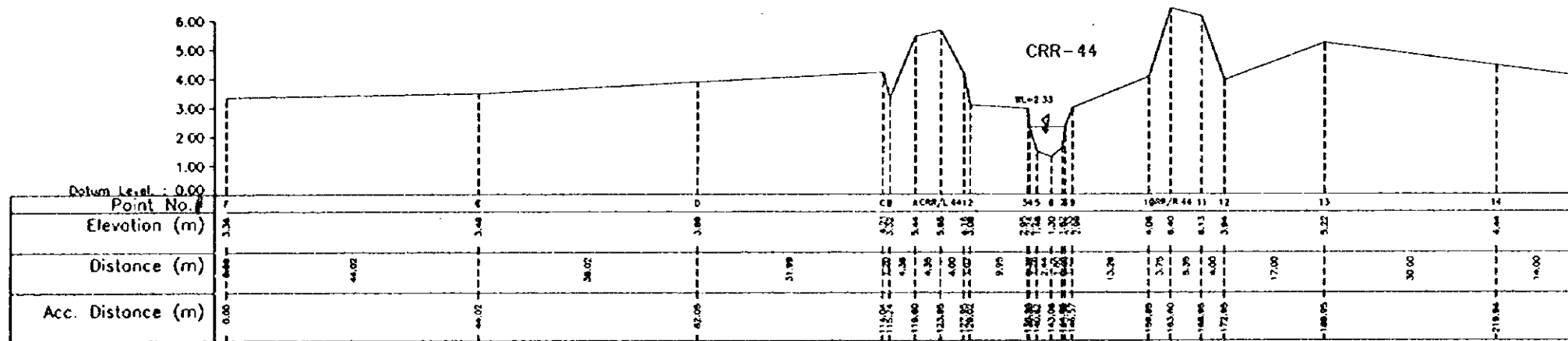
Name of River : **CIRARAB RIVER**      Drawing Title : **CROSS SECTION**

Checked by : *[Signature]*      Approved by : *[Signature]*      Scale :      Sheet No. : 13 of 15

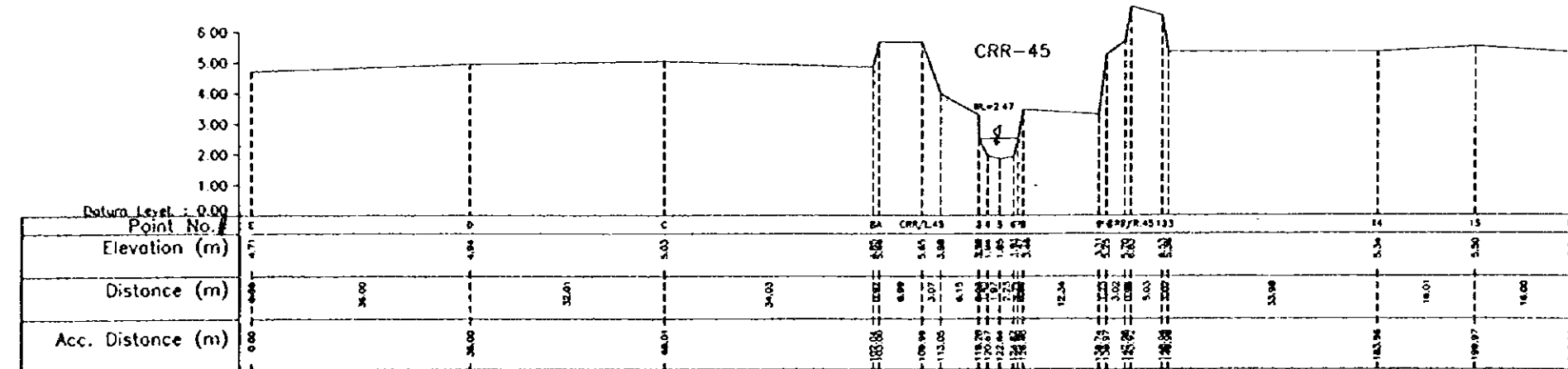
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WHATMAN & Associates** JAKARTA - INDONESIA



Date : AUGUST 29 1995



Date : AUGUST 29 1995



Date : AUGUST 29 1995

Reference Point :  
 The Elevation is referred to FIG 177 = 40.134 meters  
 The correlation between other system are :  
 FIG 177 ± 0 = WMP - 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**

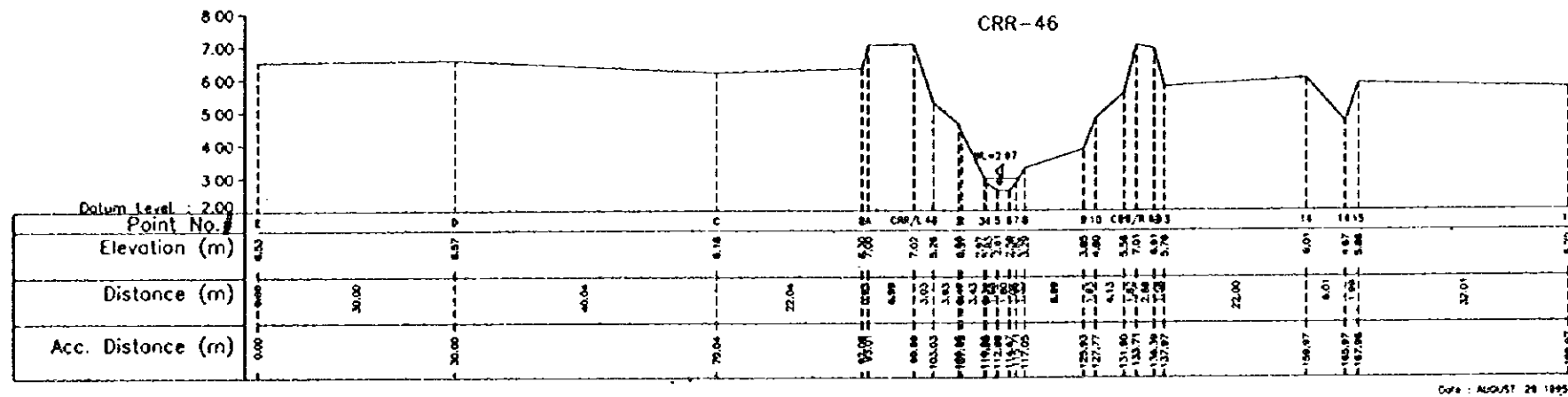
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

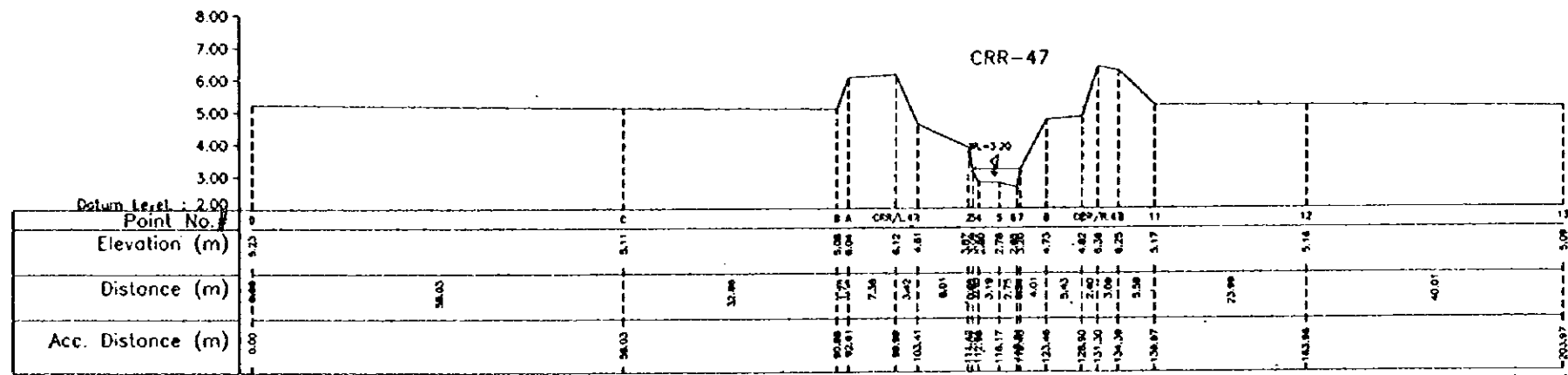
Checked by	Approved by	Scale	Sheet No.
NAME : <i>[Signature]</i>	NAME : <i>[Signature]</i>	Horizontal 1 : 500	14 of 15
Date : 10.11.95	Date : 11.11.95	Vertical 1 : 100	

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





Date : AUGUST 28 1995



Date : AUGUST 28 1995

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

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

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

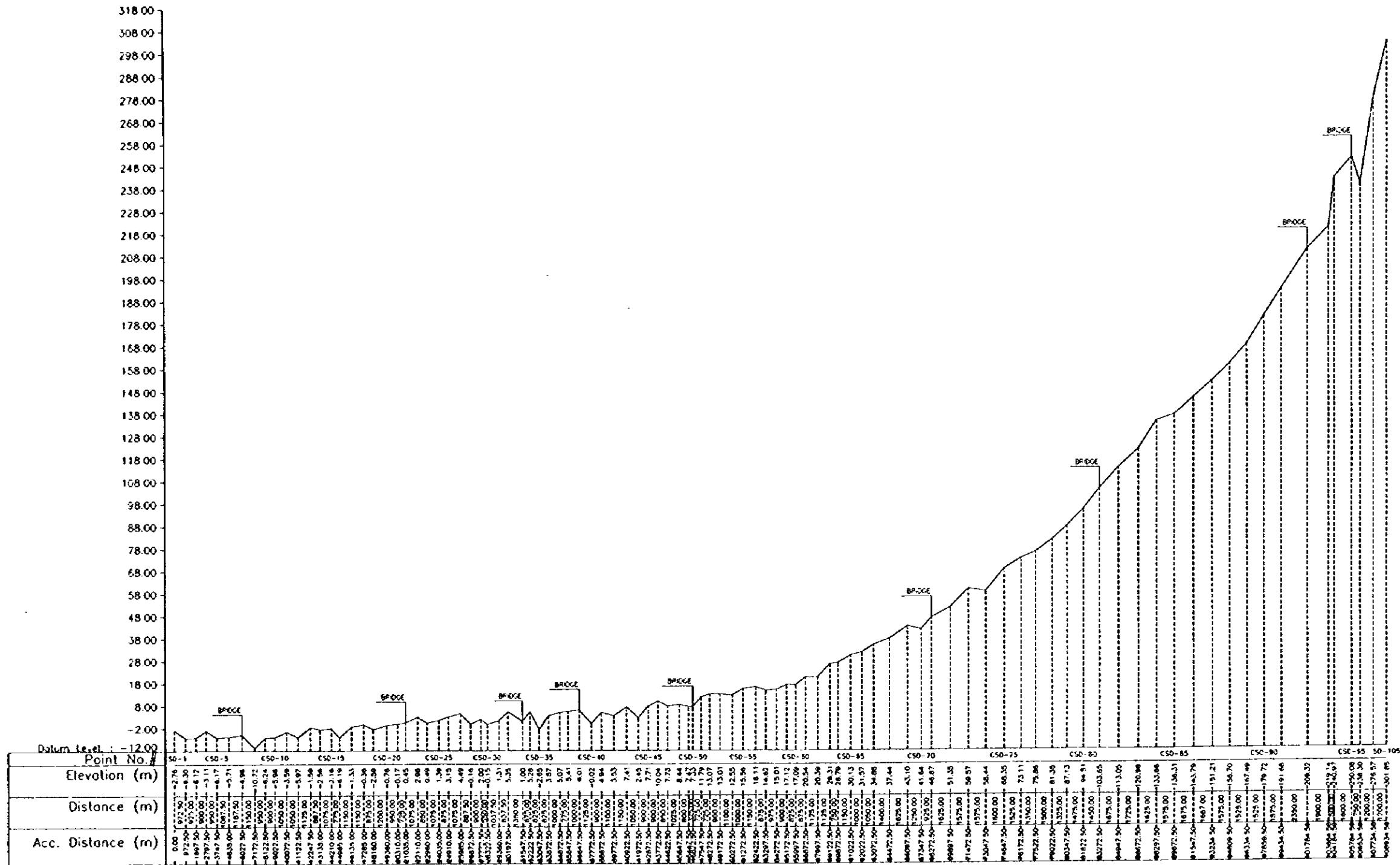
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No.
Name : BRUNO SOEDARTO	Name : I. SUN K. KUMAR	Horizontal : 1 : 500	15 of 15
Signature : [Signature]	Signature : [Signature]	Vertical : 1 : 100	
Date : 10.8.95	Date : 11.8.95		

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

5 River Survey of Cisadane River System (Cisadane River)



Reference Point  
 The Elevation is referred to ITG 177 ( ITG 177 = 40 156 meters )  
 The correlations between other systems are  
 ITG 177 ± 0.0 = NWP - 0.875 meters ± PP ± ... meters

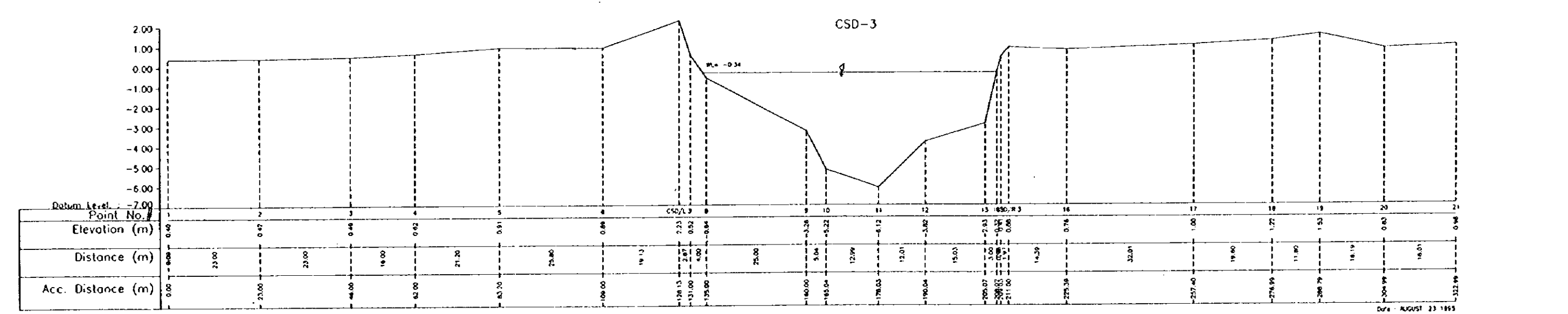
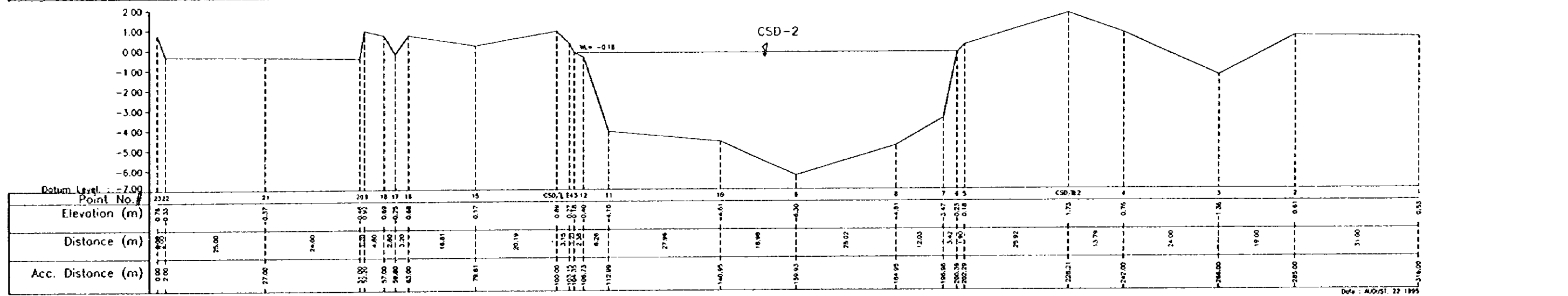
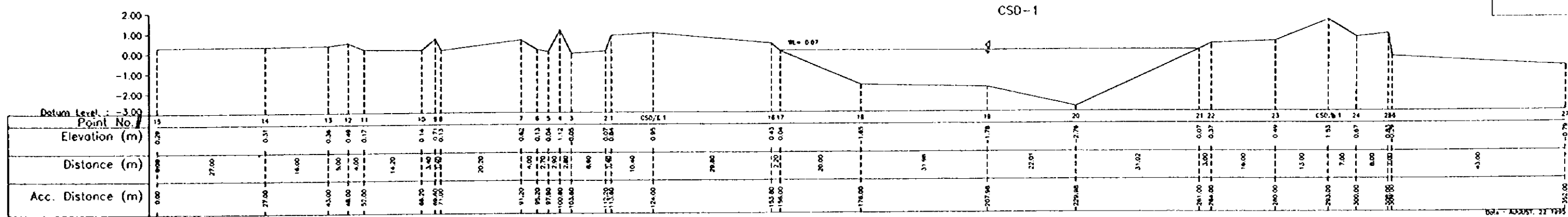
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CISADANE RIVER  
 Drawing Title : LONGITUDINAL PROFILE

Checked by : [Signature] Approved by : [Signature]  
 Scale : Horizontal 1 : 200000 Sheet No : 1 of 1  
 Vertical 1 : 1000

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 WIRATMAN & Associates JAKARTA - INDONESIA



Reference Point :  
 The Elevation is referred to ITC 197 = 40.136 meters  
 The correlation between other system are :  
 ITC 197 ± 0 = NWP - 0.975 meters = FP ± 0.1 meter

( IN METERS )  
 1:500

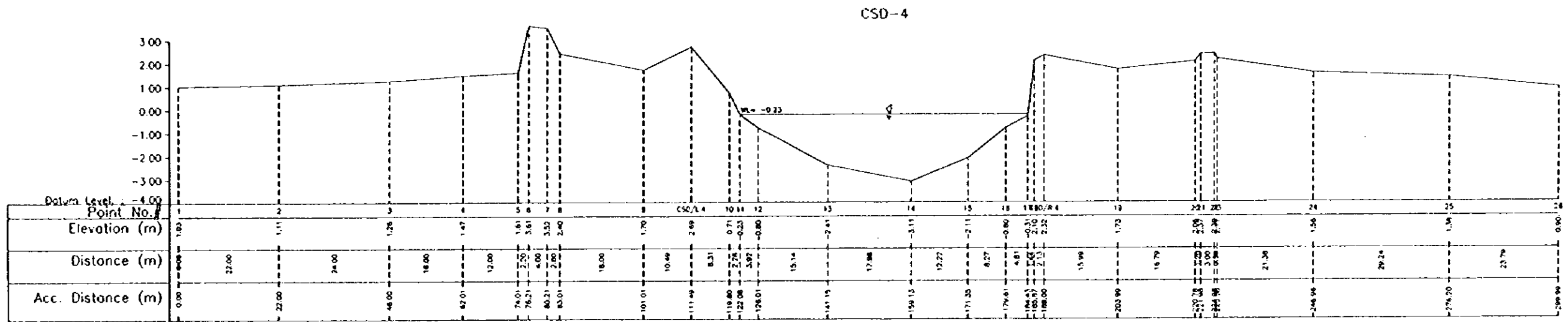
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

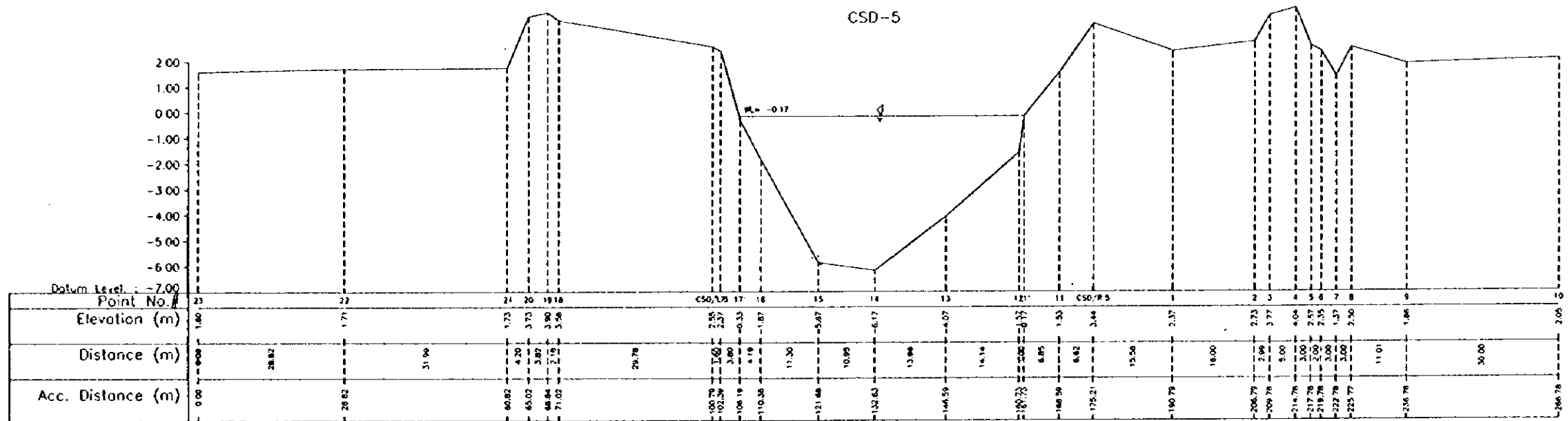
Name of River : **CISADANE RIVER**      Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
BRAND SOEDHITO	T. HAN K. TOPHANE	Horizontal 1 : 500	1 of 56
Signature	Signature	Vertical 1 : 100	
Date 14. 11. 97	15. 11. 97		

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Date - Sept 23 1995



Date - Sept 23 1995

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

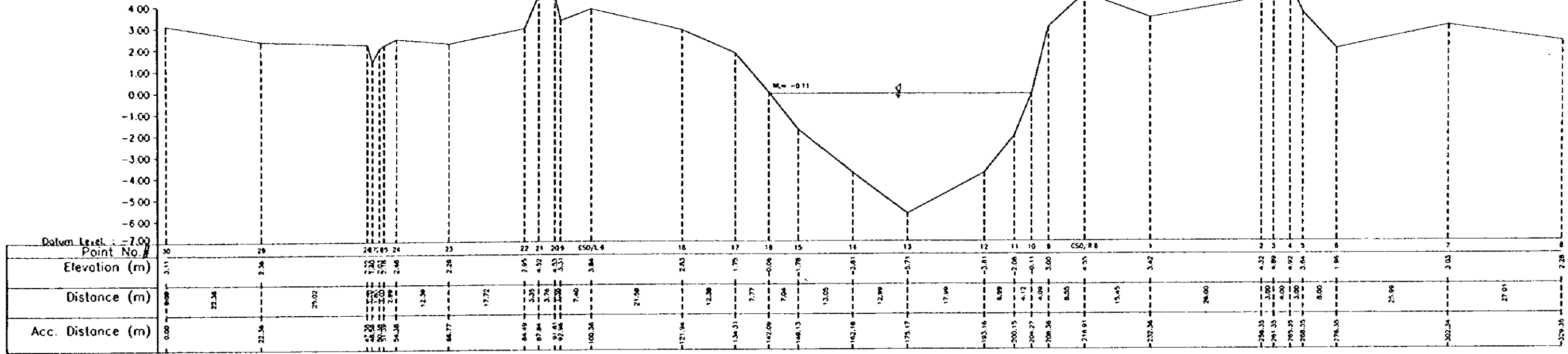
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

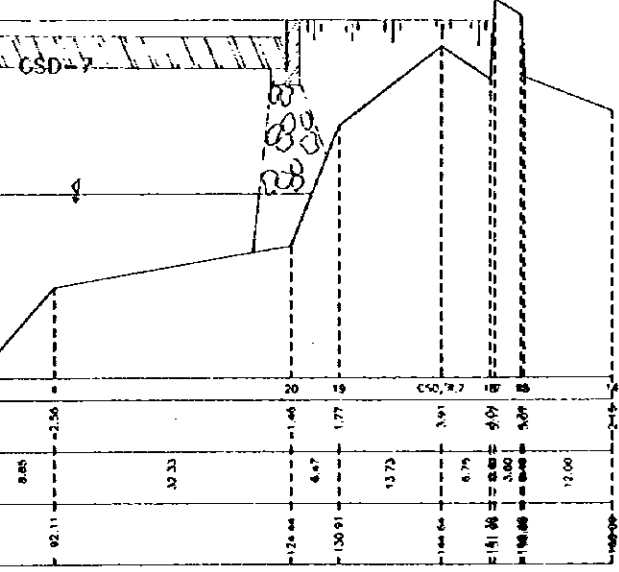
Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked By: BACHO SOEDARTO	Approved By: I. H. H. I. H. H.	Scale: Horizontal 1 : 500 Vertical 1 : 100	Sheet No: 2 of 56

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JAKARTA -- INDONESIA

CSD-6

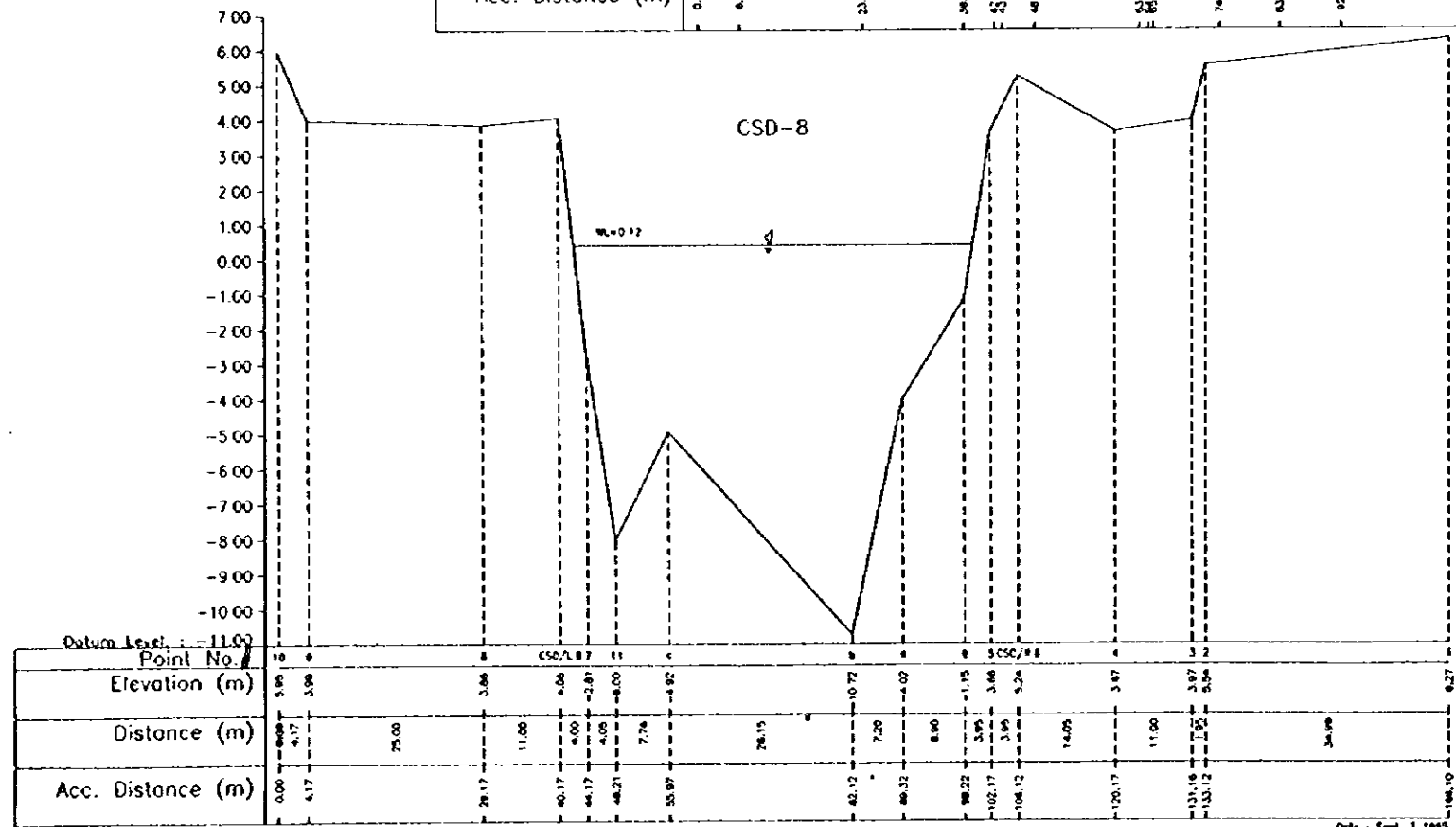


Date : Sept 7 1995



Date : Sept 7 1995

CSD-8



Date : Sept 7 1995

Reference Point :  
 The Elevation is referred to TIG 177 = 43.156 meters  
 The correlation between other system are  
 TIG 177 ± 0 = HAP = 0.975 meters = PP + ... meter

( IN METERS )  
 1 : 100  
 1 : 500  
 1 : 1000  
 1 : 2000  
 1 : 5000  
 1 : 10000  
 1 : 20000  
 1 : 50000  
 1 : 100000  
 1 : 200000  
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 1 : 100000000

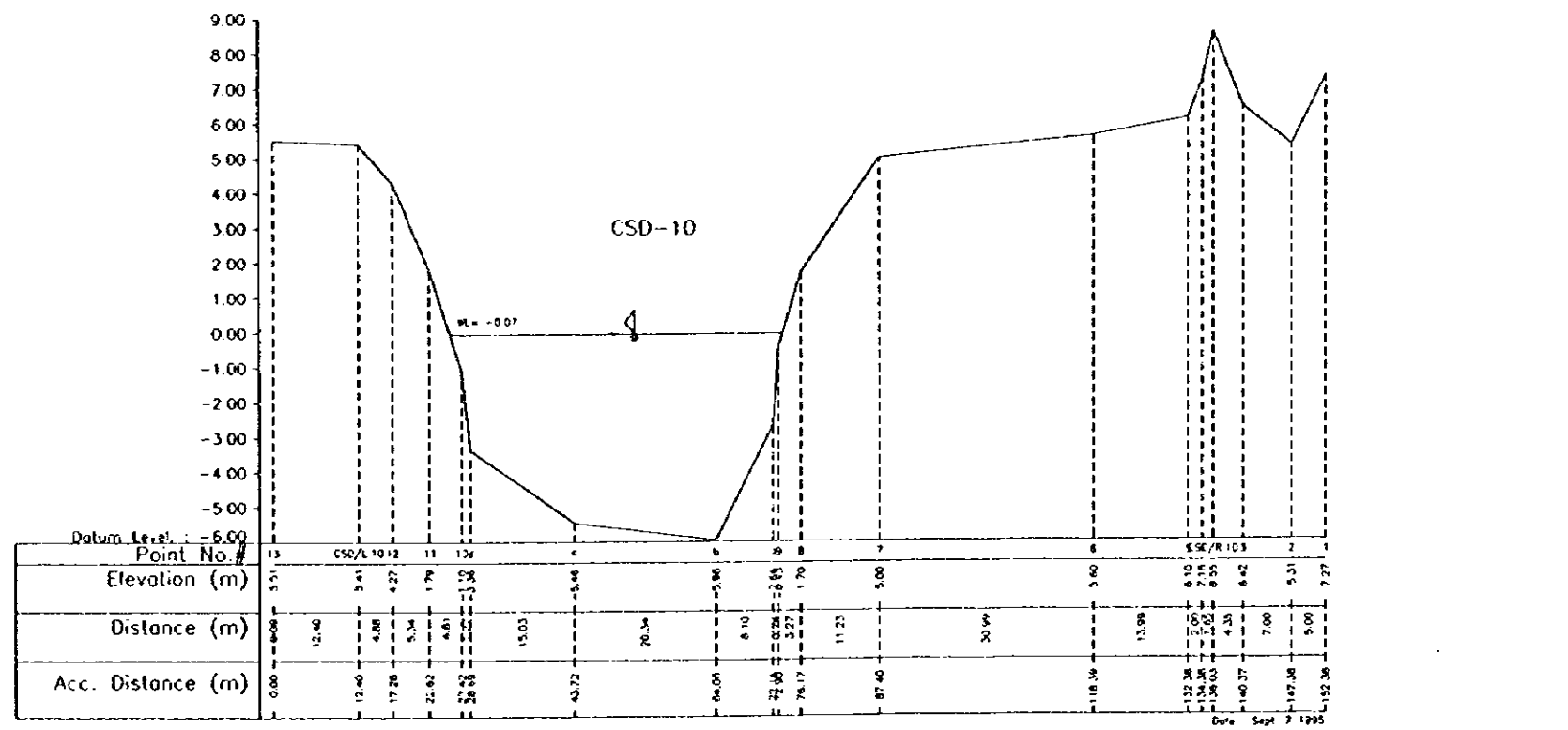
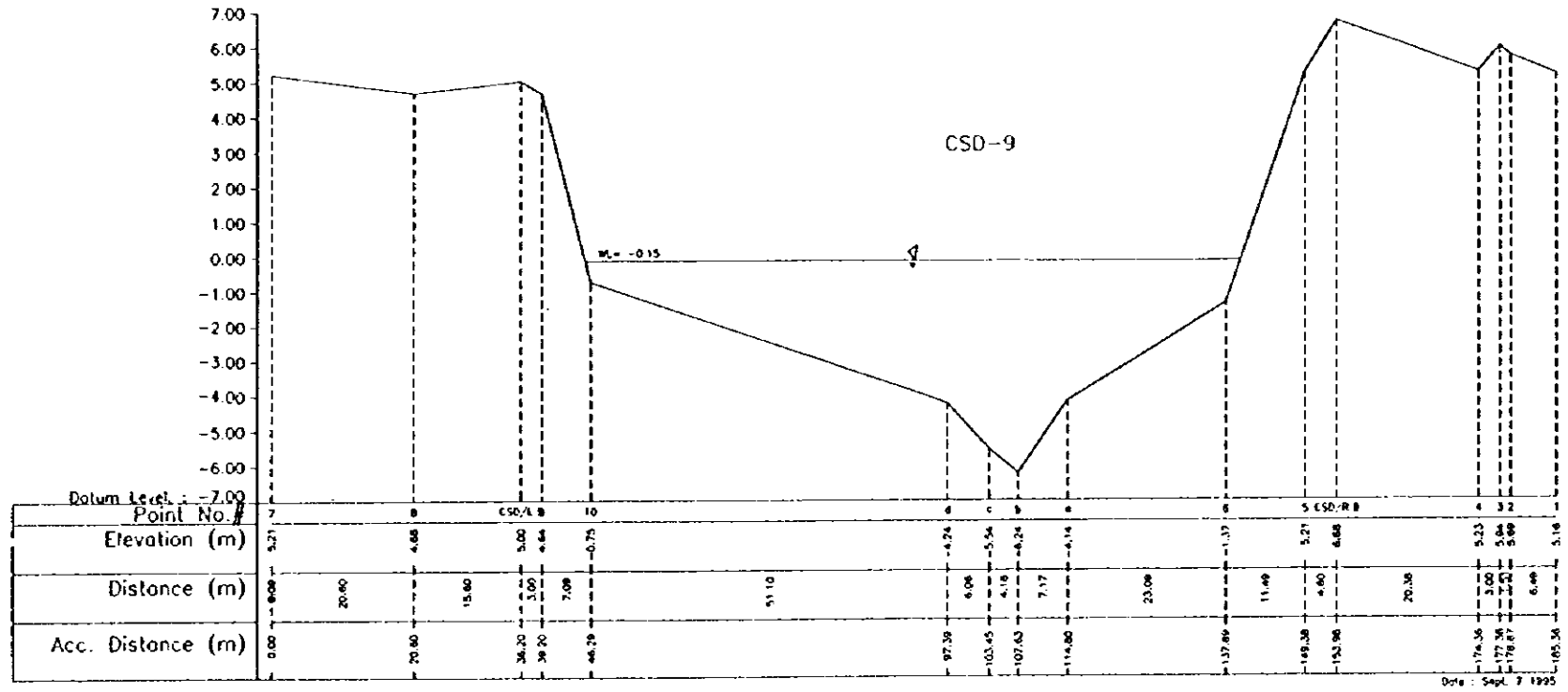
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked By B. MANO SOESAPTO Date 14/11/95	Approved By T. RAU R. TOPRANE Date 16/11/95	Scale Horizontal 1 : 500 Vertical 1 : 100	Sheet No. 3 of 56
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Reference Point:  
 The Elevation is referred to IIG 177 = 43.136 meters  
 The correlation between other system are  
 IIG 177 ± 0 = NWP = 0.975 meters + FP ± meter

( IN METERS )

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

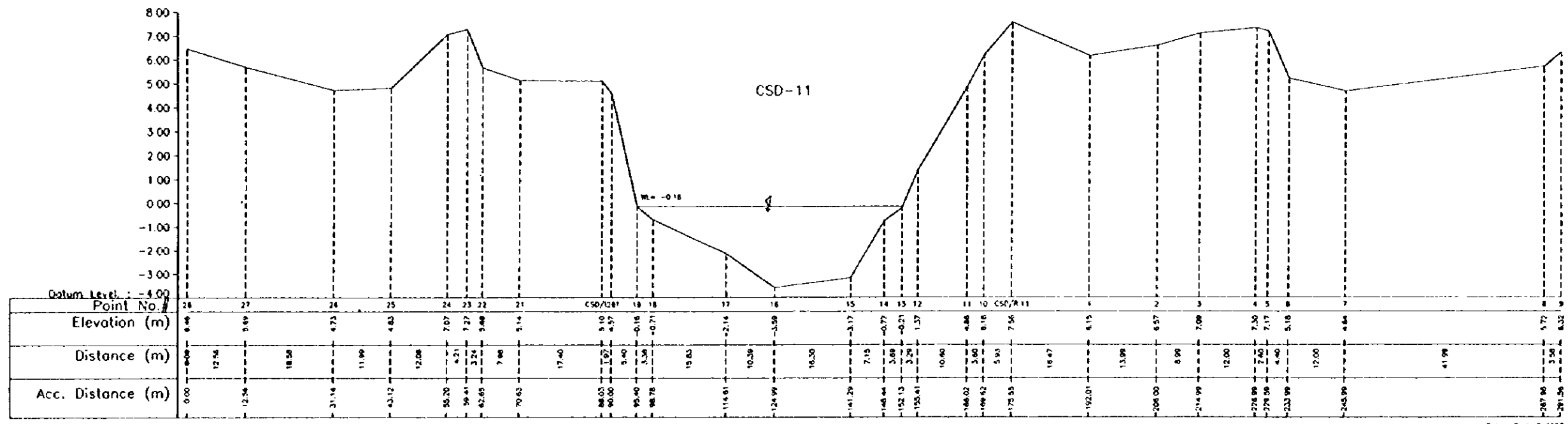
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CISADANE RIVER  
 Drawing Title : CROSS SECTION

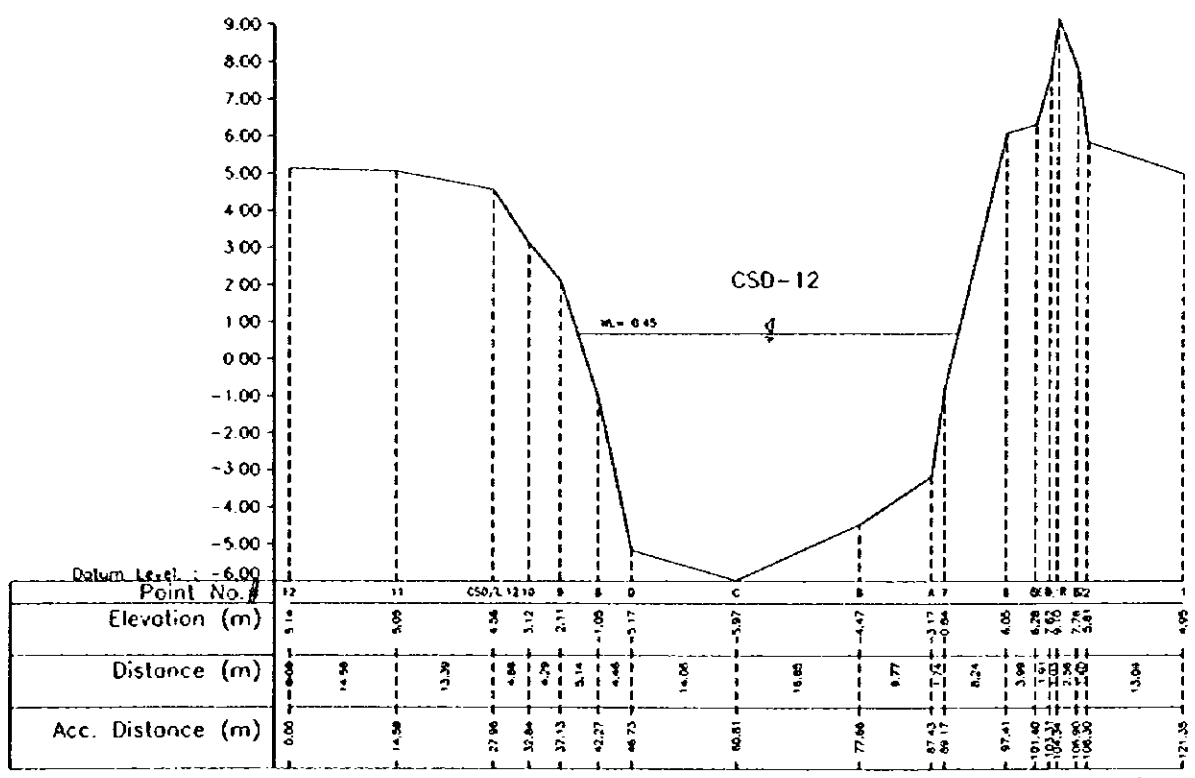
Checked by : [Signature] Approved by : [Signature]  
 Name : [Name] [Name]  
 Signature : [Signature] [Signature]  
 Date : 14.08.95 15.08.95

Scale : Horizontal 1 : 500  
 Vertical 1 : 100  
 Sheet No : 4 of 56

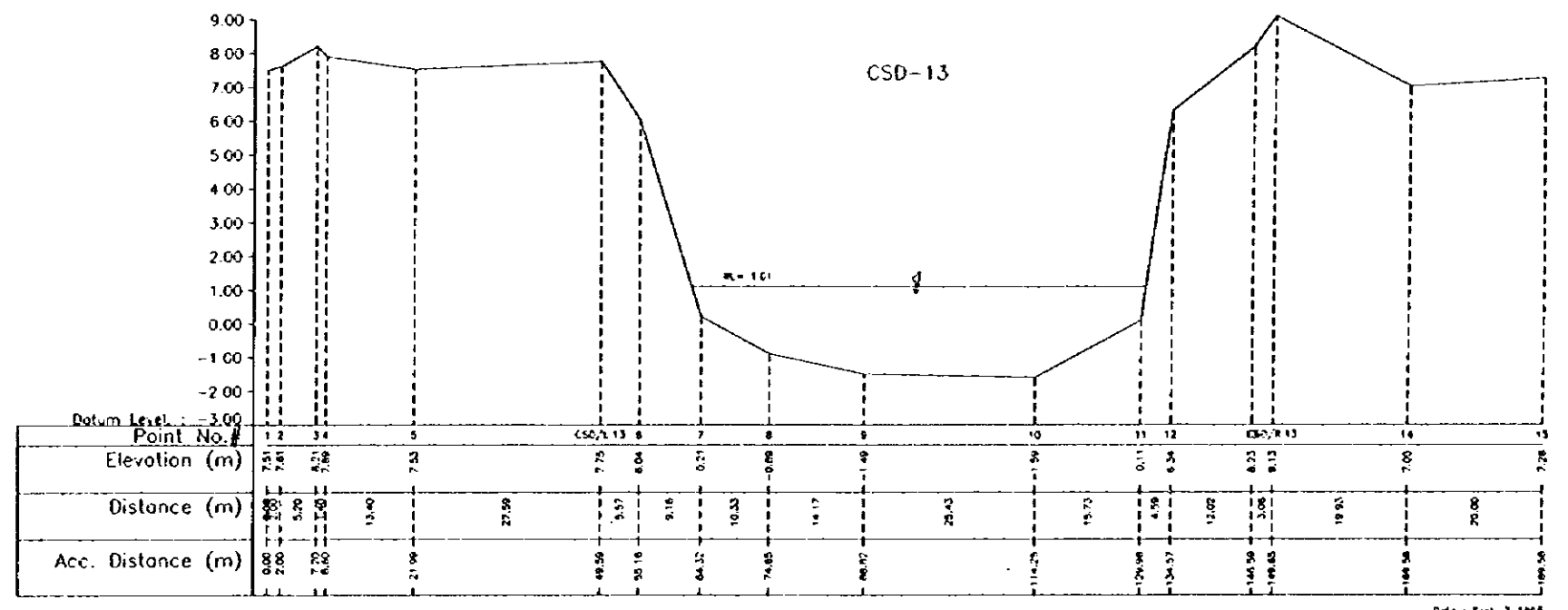
JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 WIRATMAN & Associates JAKARTA - INDONESIA



Date : Sept 7 1995



Date : Sept 7 1995



Date : Sept 7 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 = FP ± ... meter

( OF METERS )  
 1:100  
 1:500

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

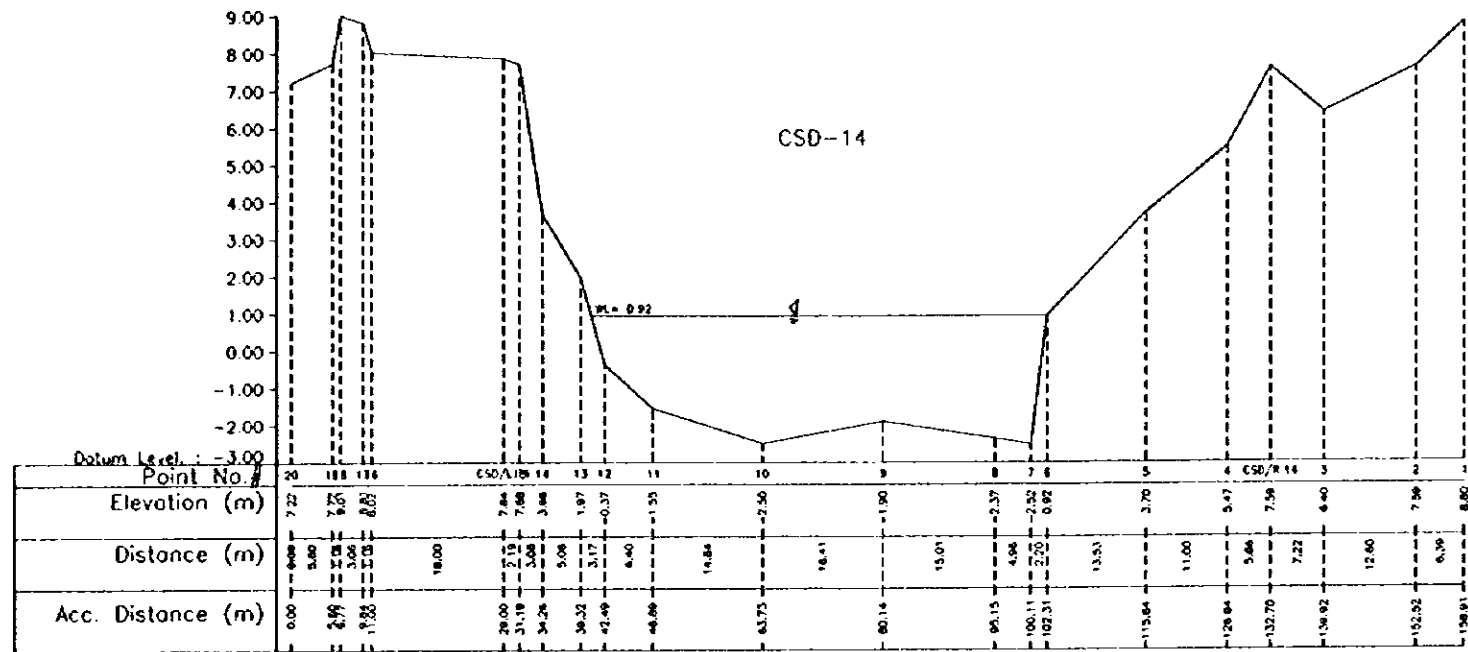
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

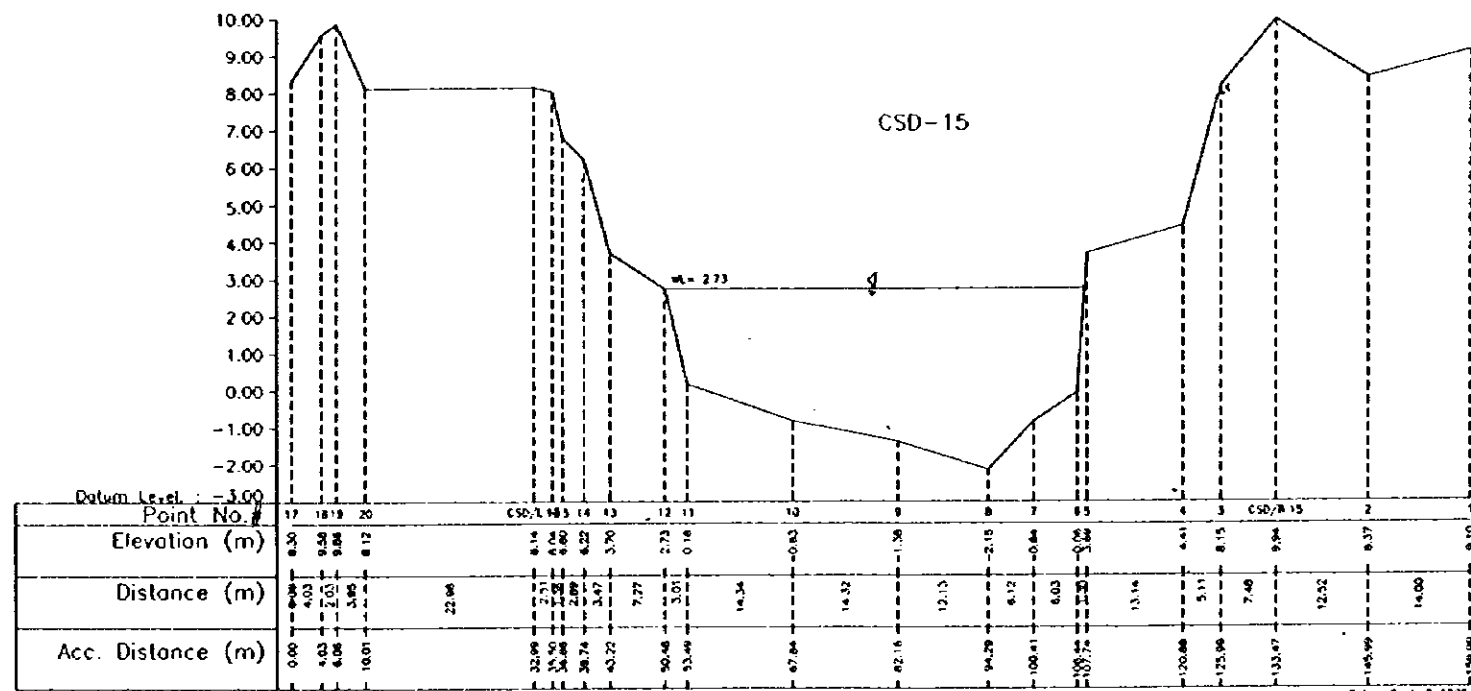
Checked by	Approved by	Scale	Sheet No
Name : BROWN SOEPRATNO	T. MAN K. TOPAN	Horizontal 1 : 500	5 of 56
Signature : [Signatures]		Vertical 1 : 100	
Date : 16.11.95	15.11.95		

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





Date : Sept 8 1995



Date : Sept 8 1995

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

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

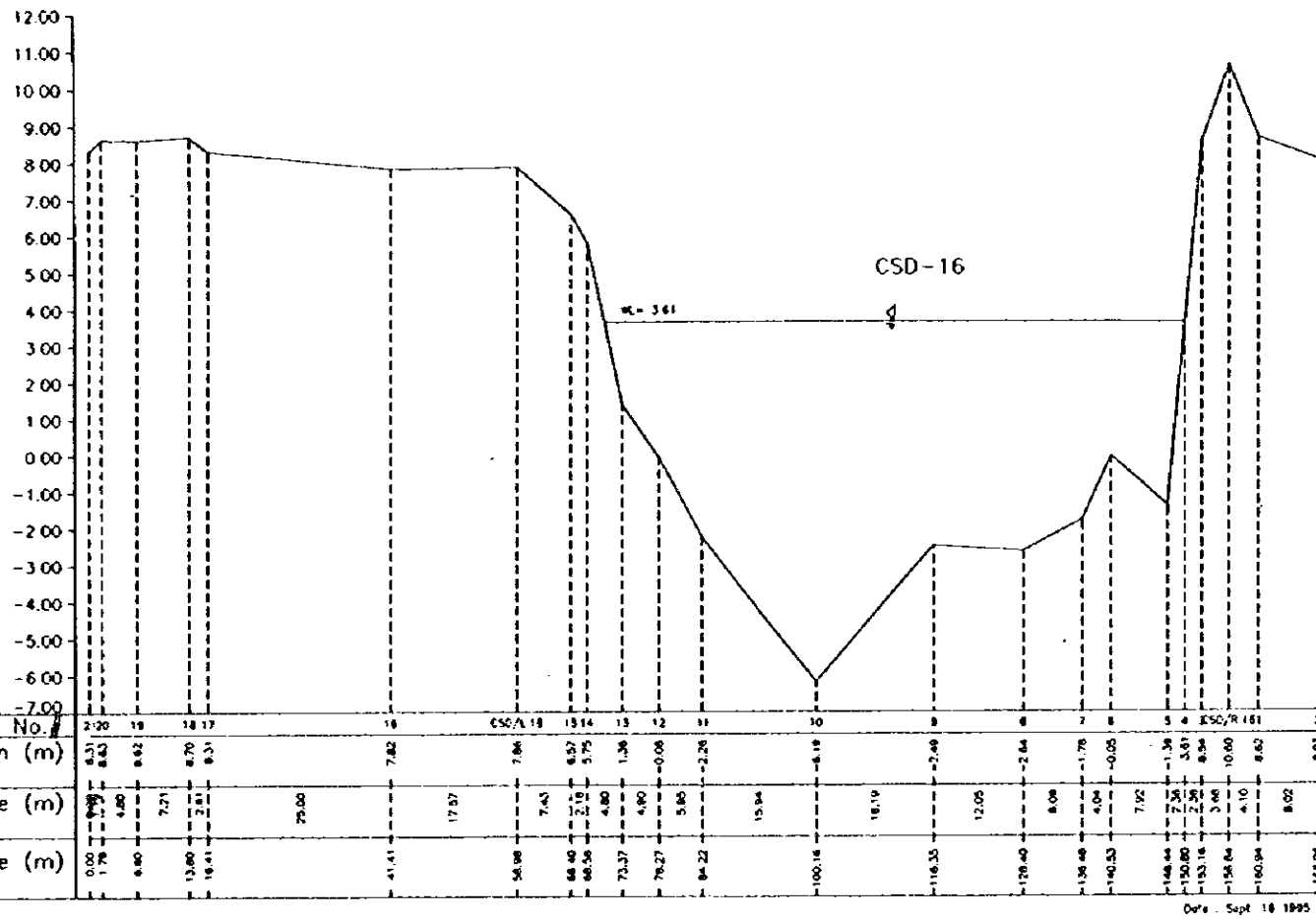
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

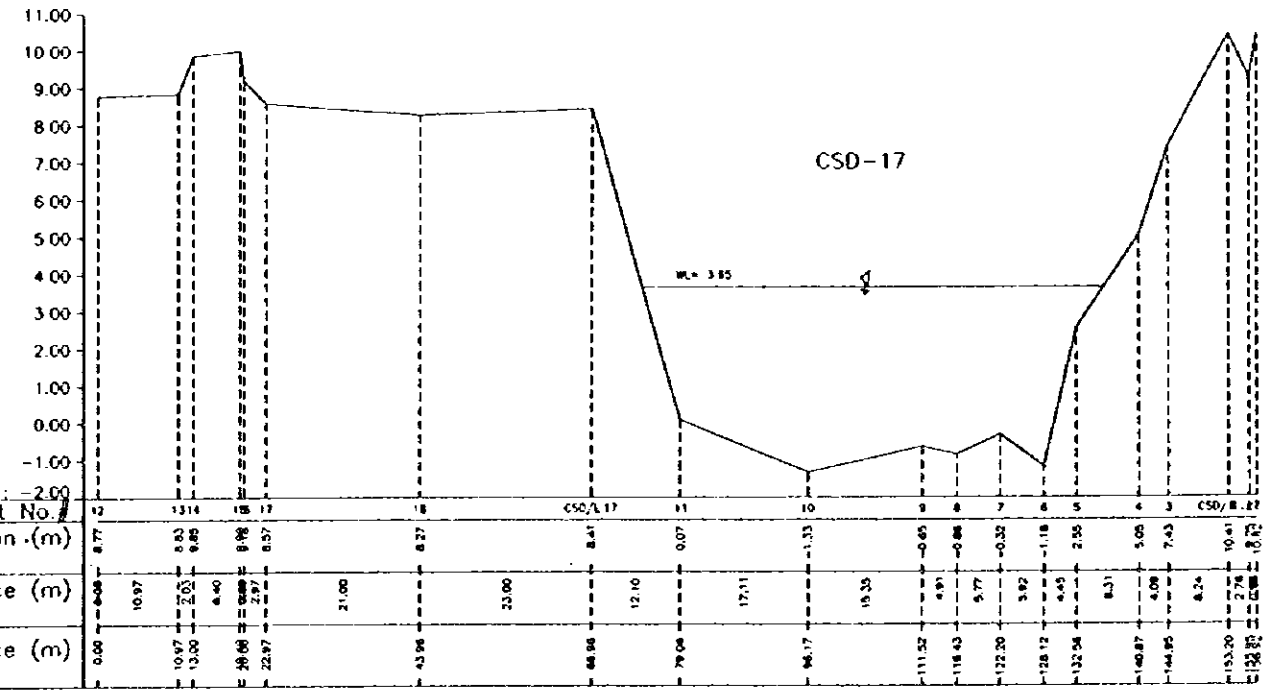
Name of River : **CISADANE RIVER**      Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
None	None	Horizontal 1 : 500	6 of 56
Signature	Signature	Vertical 1 : 100	
Date	Date		

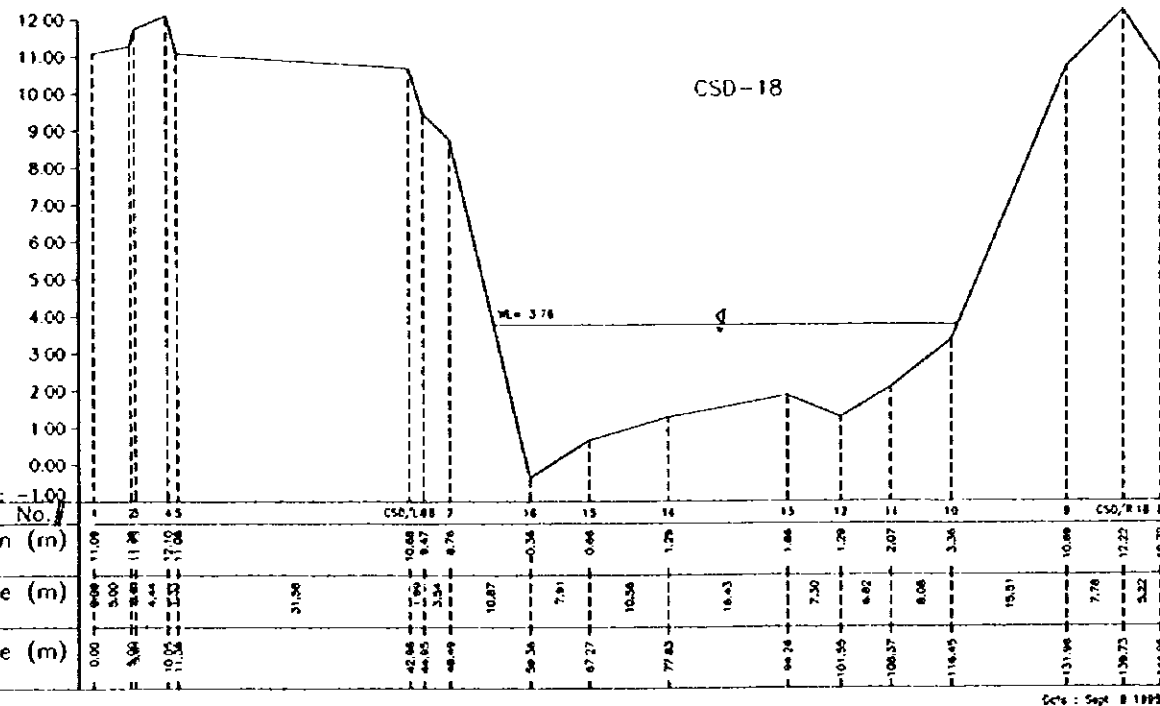
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WIRATMAN & Associates** JAKARTA - INDONESIA



Point No.	Elevation (m)	Distance (m)	Acc. Distance (m)
1	8.53	0.00	0.00
2	8.53	4.00	4.00
3	8.62	7.21	11.21
4	8.70	13.00	24.21
5	8.31	16.41	40.62
6	7.82	20.00	60.62
7	7.86	24.43	85.05
8	6.57	27.10	112.15
9	5.75	30.00	142.15
10	1.36	33.37	175.52
11	0.08	36.90	212.42
12	-2.26	40.22	252.64
13	-6.18	43.94	296.58
14	-2.48	48.19	344.77
15	-2.64	52.05	396.82
16	-1.76	55.08	451.90
17	-0.05	57.04	508.94
18	-1.36	58.92	567.86
19	3.51	60.00	627.86
20	8.34	61.16	689.02
21	10.00	62.00	751.02
22	8.62	62.84	813.86
23	8.03	63.00	877.86



Point No.	Elevation (m)	Distance (m)	Acc. Distance (m)
1	8.77	0.00	0.00
2	8.53	10.97	10.97
3	8.66	13.00	23.97
4	8.98	16.40	40.37
5	8.57	22.97	63.34
6	8.27	27.00	90.34
7	8.41	33.00	123.34
8	0.07	37.10	160.44
9	-1.33	41.00	201.44
10	-0.65	45.35	246.79
11	-0.88	49.10	295.89
12	-0.35	53.27	349.16
13	-1.18	57.82	406.98
14	2.05	62.77	469.75
15	5.05	68.10	537.85
16	7.43	73.00	610.85
17	10.41	77.40	688.25
18	8.03	81.00	769.25



Point No.	Elevation (m)	Distance (m)	Acc. Distance (m)
1	11.00	0.00	0.00
2	11.94	3.00	3.00
3	11.94	4.44	7.44
4	11.00	10.50	17.94
5	10.68	17.90	35.84
6	9.27	25.34	61.18
7	8.76	33.00	94.18
8	-0.35	40.87	135.05
9	0.44	49.10	184.15
10	1.29	57.82	241.97
11	1.86	67.00	308.97
12	1.29	77.00	385.97
13	2.07	87.00	472.97
14	3.36	97.00	569.97
15	10.88	107.00	676.97
16	12.25	117.00	793.97
17	10.72	127.00	920.97

Reference Point :  
 The Elevation is referred to ITG 177 = 62.136 meters  
 The correlation between other system are :  
 ITG 177 ± 0 = MWP = 0.975 meters = PP ± 0.975 meter

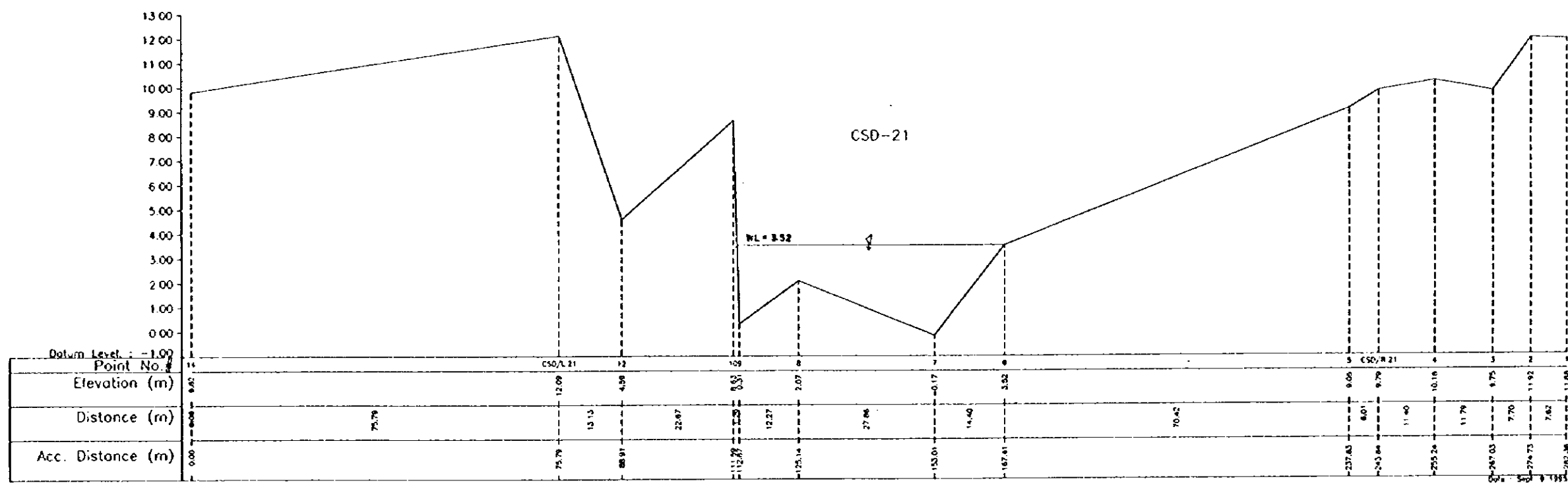
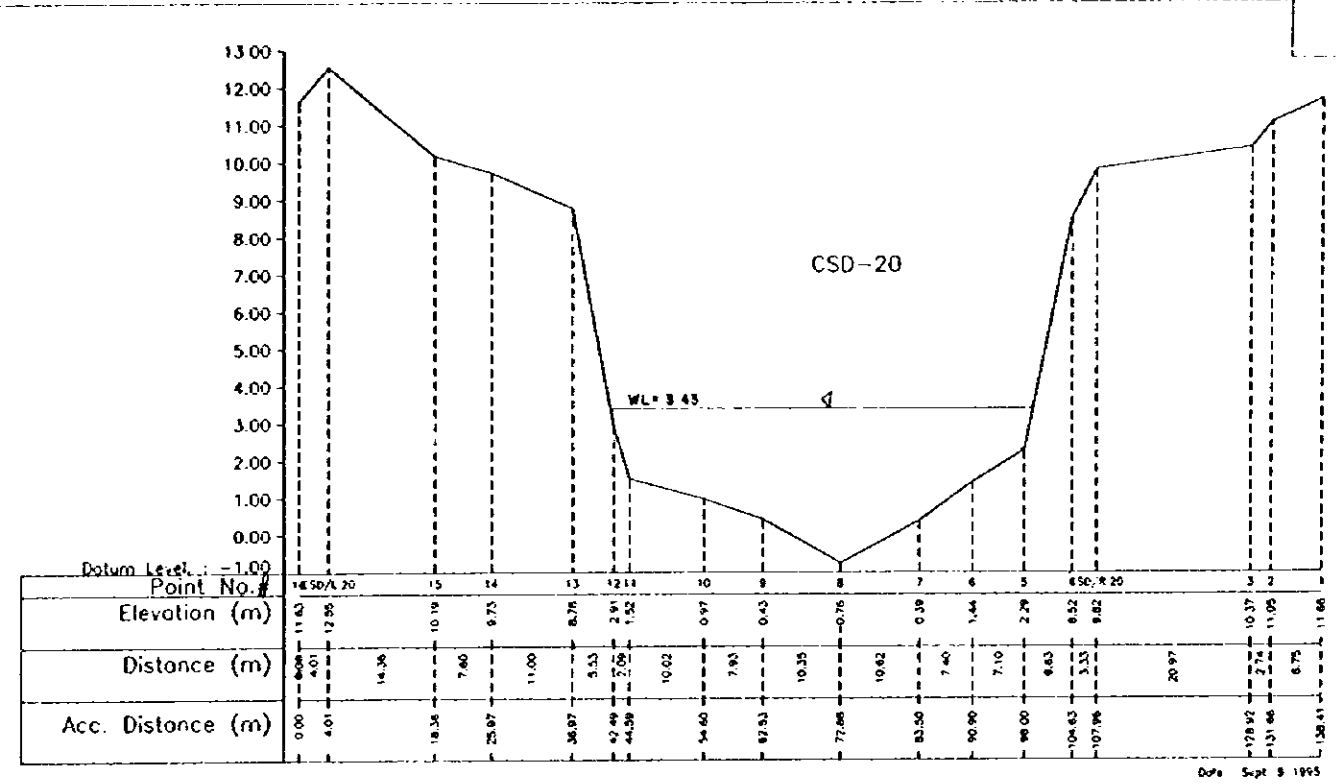
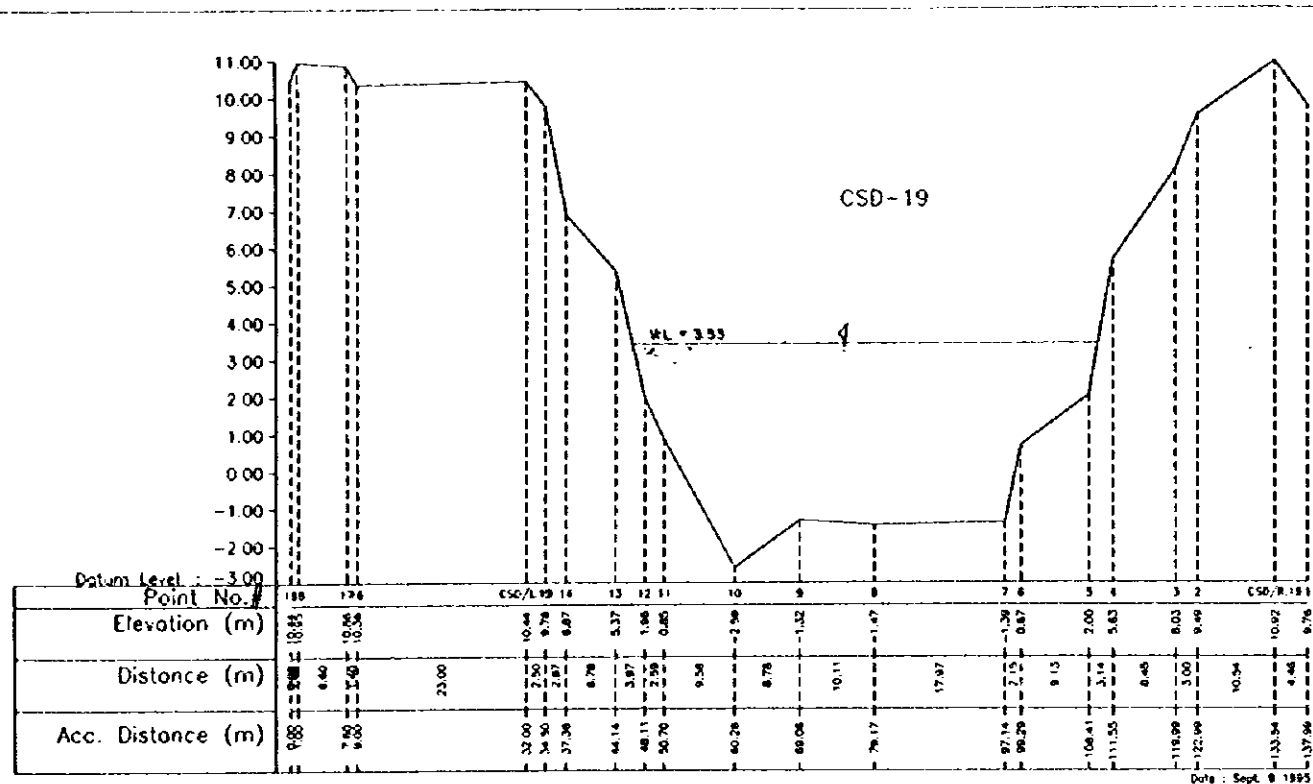
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CISADANE RIVER  
 Drawing Title : CROSS SECTION

Checked by : [Signature] Approved by : [Signature]  
 Scale : Horizontal 1 : 500, Vertical 1 : 100  
 Sheet No : 7 of 56

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 WIRAMAN & Associates JAKARTA - INDONESIA



Reference Point:  
 The Elevation is referred to TIG 177 = 43134 meters  
 The correlation between other system are:  
 TIG 177 ± 0 = NWP - 0.875 meters = PP + 0.125 meter

(BY METERS)  
 1:500

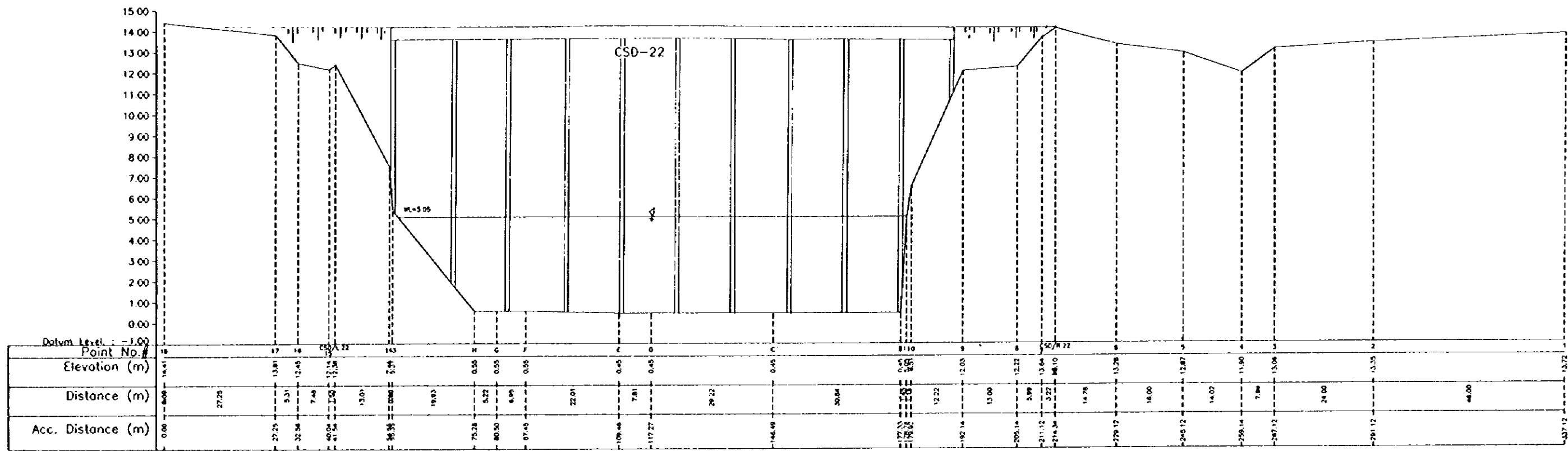
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

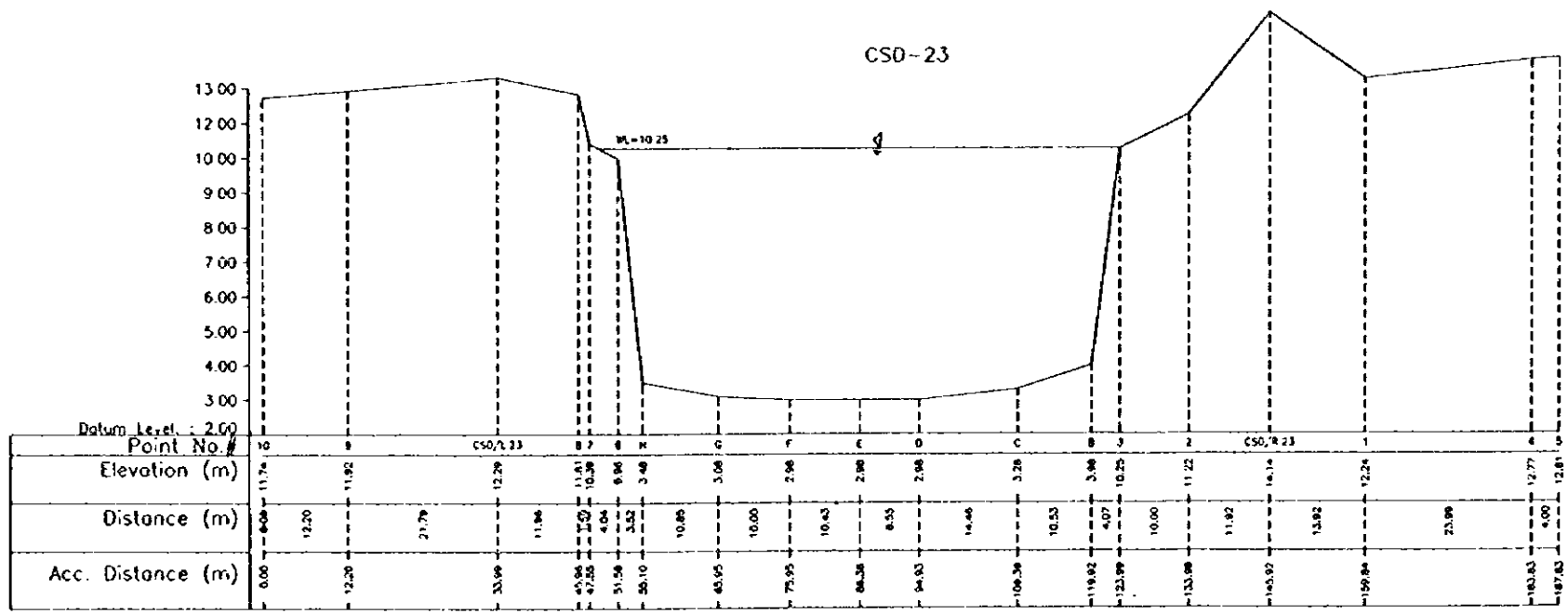
Name of River : **CISADANE RIVER**      Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No.
BRONO	R. TORANE	Horizontal 1 : 500	8 of 56
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Vertical 1 : 100	
Date: 15.11.25	15.11.95		

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



Date : Sept 7 1995



Date : Sept 8 1995

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

( IN METERS )  
 1 : 500

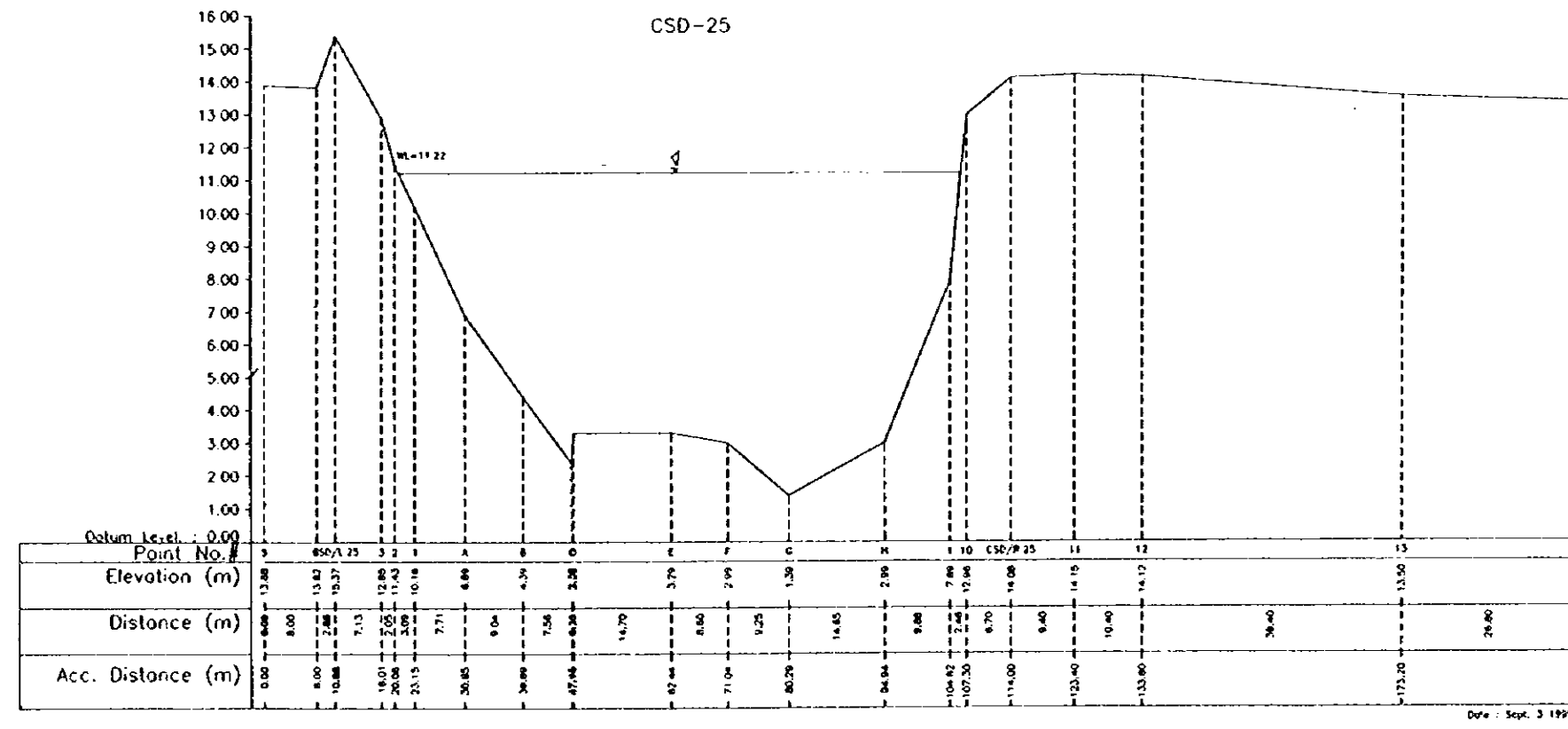
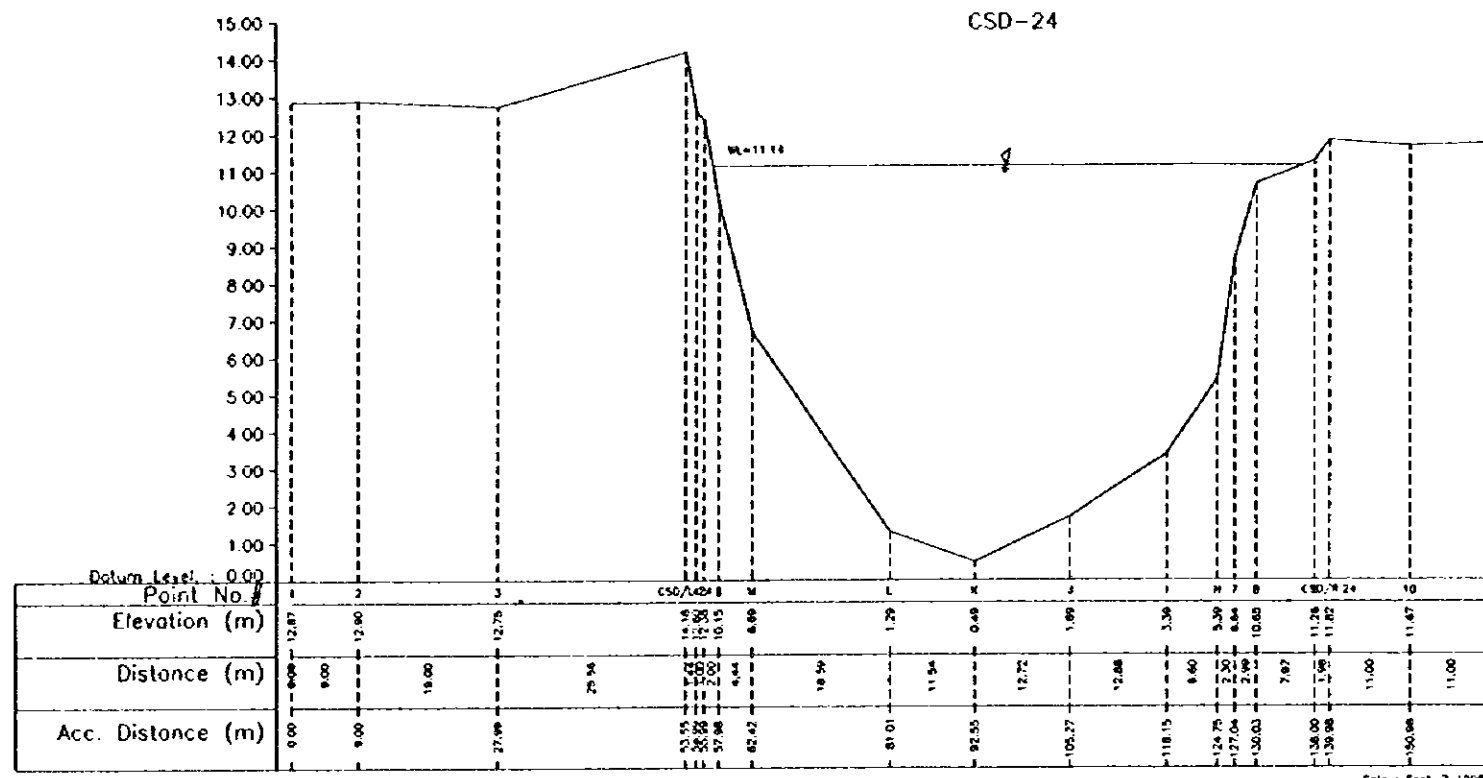
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTABEK**

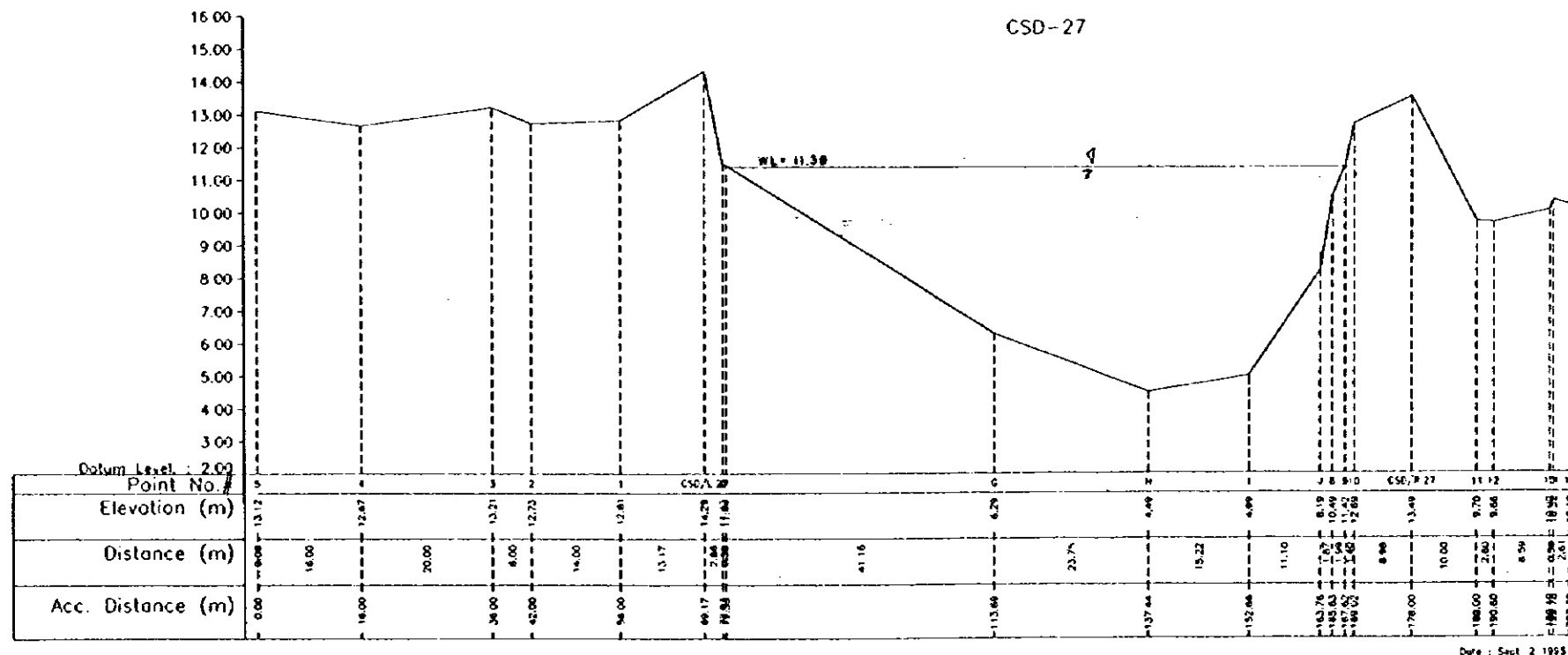
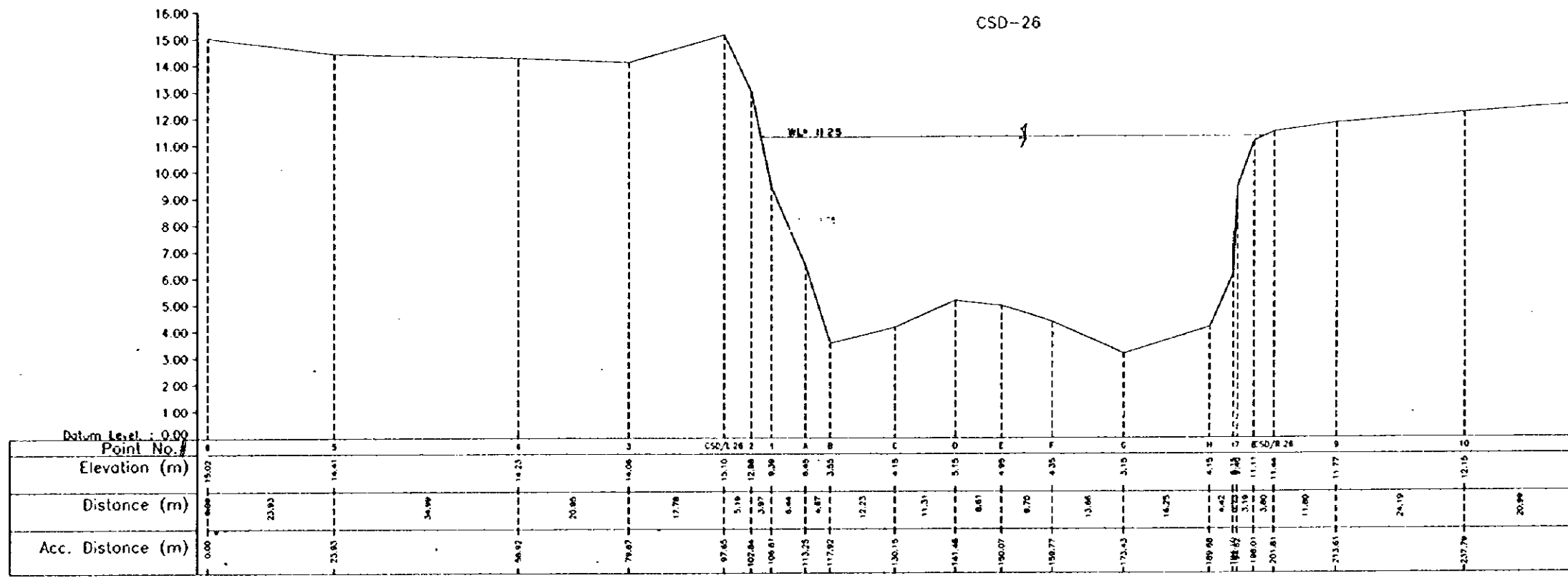
Name of River : **CISADANE RIVER**      Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No.
BARONO SOCCOPIO	T. BAWA K. TOPKANE	Horizontal 1 : 500 Vertical 1 : 100	9 of 56

**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 ± ... meter		( IN METERS ) 1 : 100 1 : 500
<b>MINISTRY OF PUBLIC WORKS</b> <b>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT</b> <b>CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT</b>		
<b>THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK</b>		
Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>
Checked by : None	Approved by : None	Scale : Horizontal 1 : 500 Vertical 1 : 100
Date : 14.11.95		Sheet No : 10 of 55
<b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY		<b>WYATMAN &amp; Associates</b> JAKARTA - INDONESIA



Reference Point:  
 The Elevation is referred to TIG 177 = 43.136 meters  
 The correlation between other system are:  
 TIG 177 ± 0 = hWP = 0.915 meters = PP + 0.915 meter

( IN METERS )  
 1 : 100  
 1 : 500

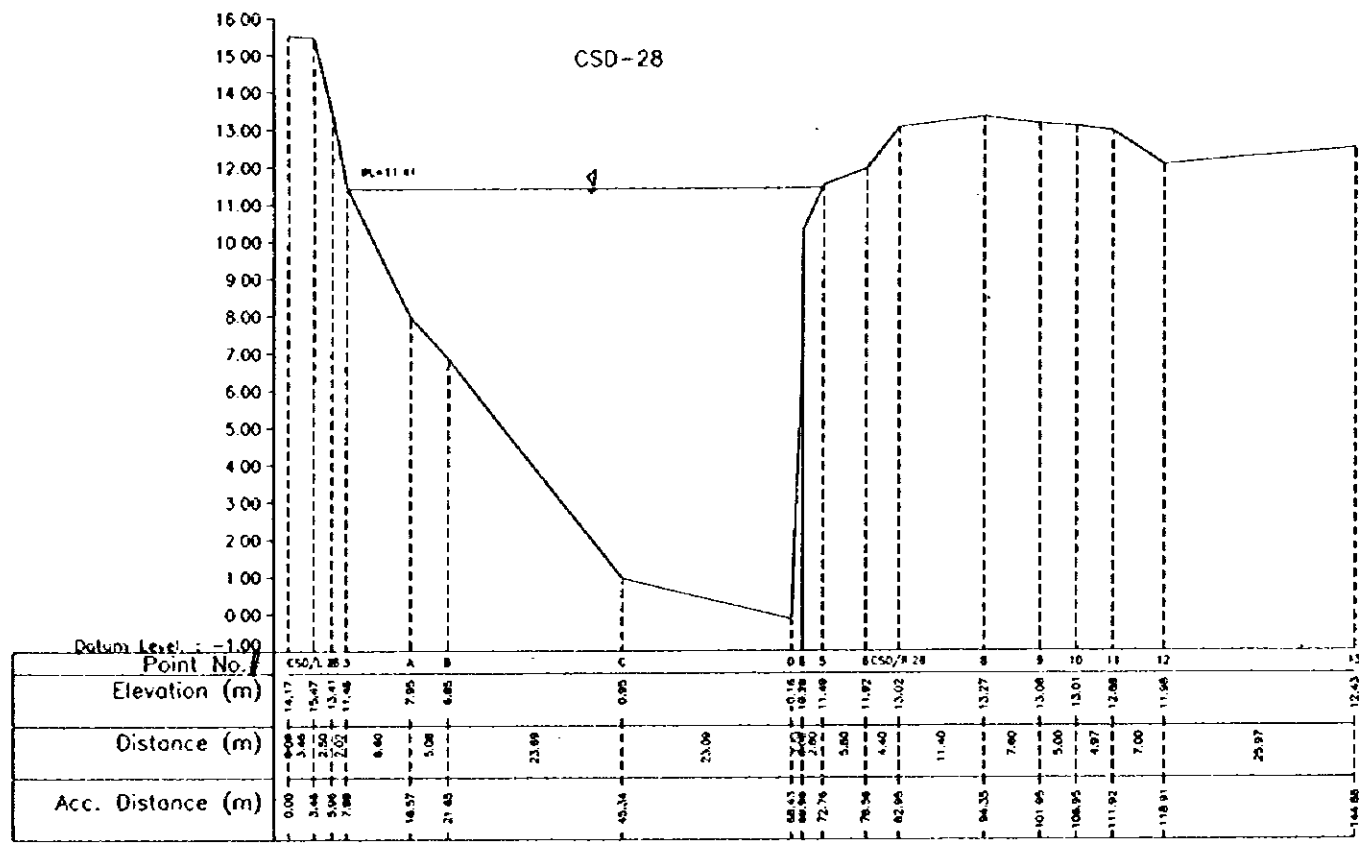
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

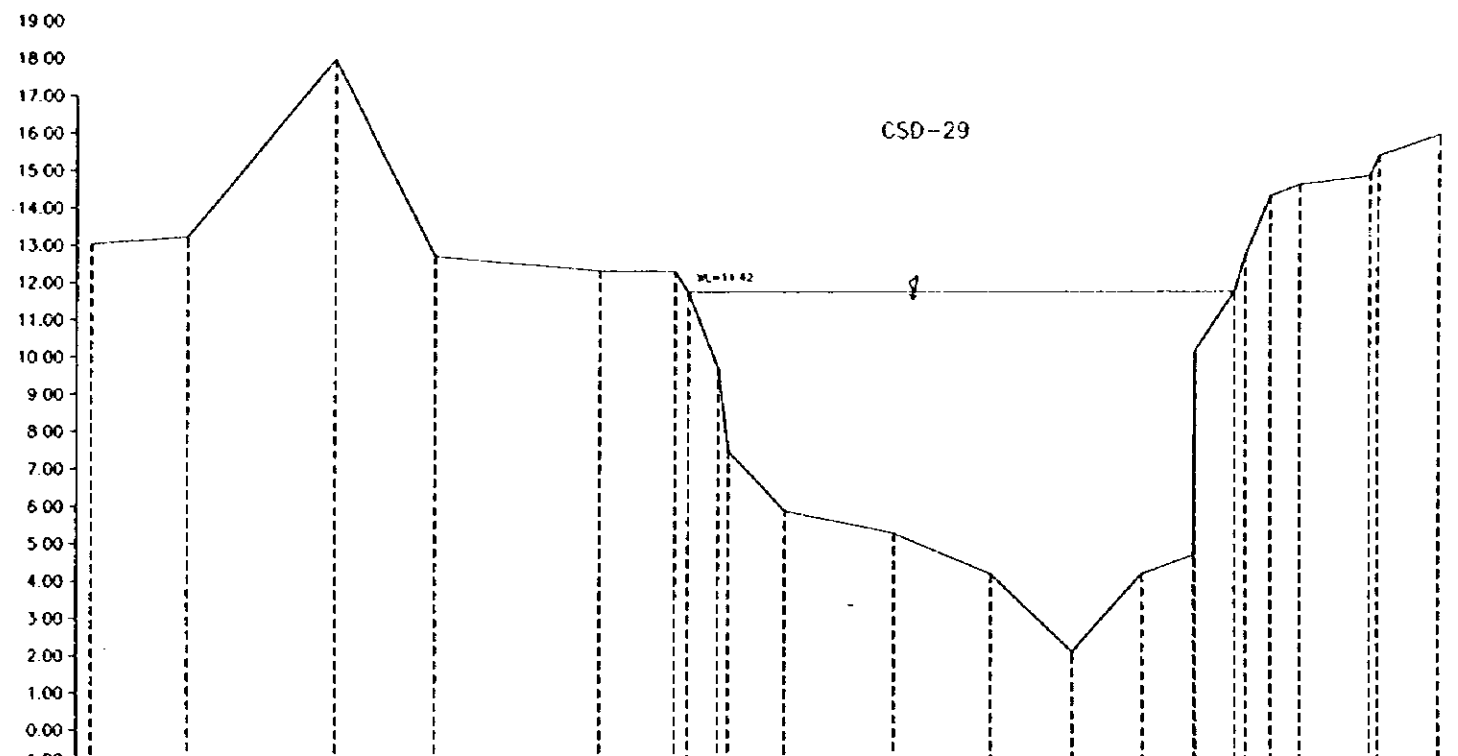
Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by Name: <i>SOEDARTO</i> Signature: <i>[Signature]</i> Date: <i>15.9.95</i>	Approved by Name: <i>T. AW</i> Signature: <i>[Signature]</i> Date: <i>16.9.95</i>	Scale Horizontal: 1 : 500 Vertical: 1 : 100	Sheet No. 11 of 56

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

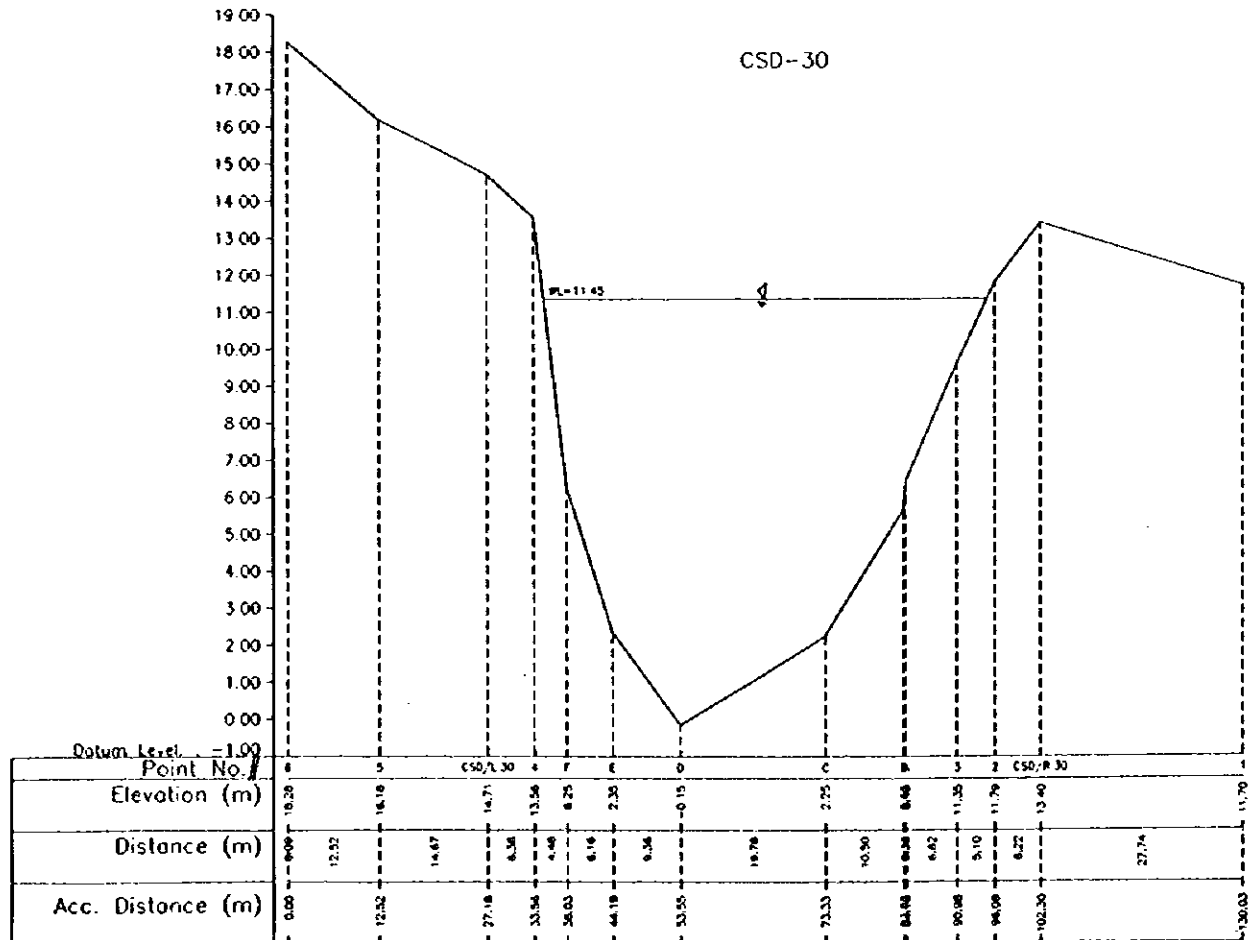
**WIRATMAN & Associates**  
 JAKARTA - INDONESIA



Date : Sept. 2 1995



Date : Sept. 2 1995



Date : Sept. 8 1995

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

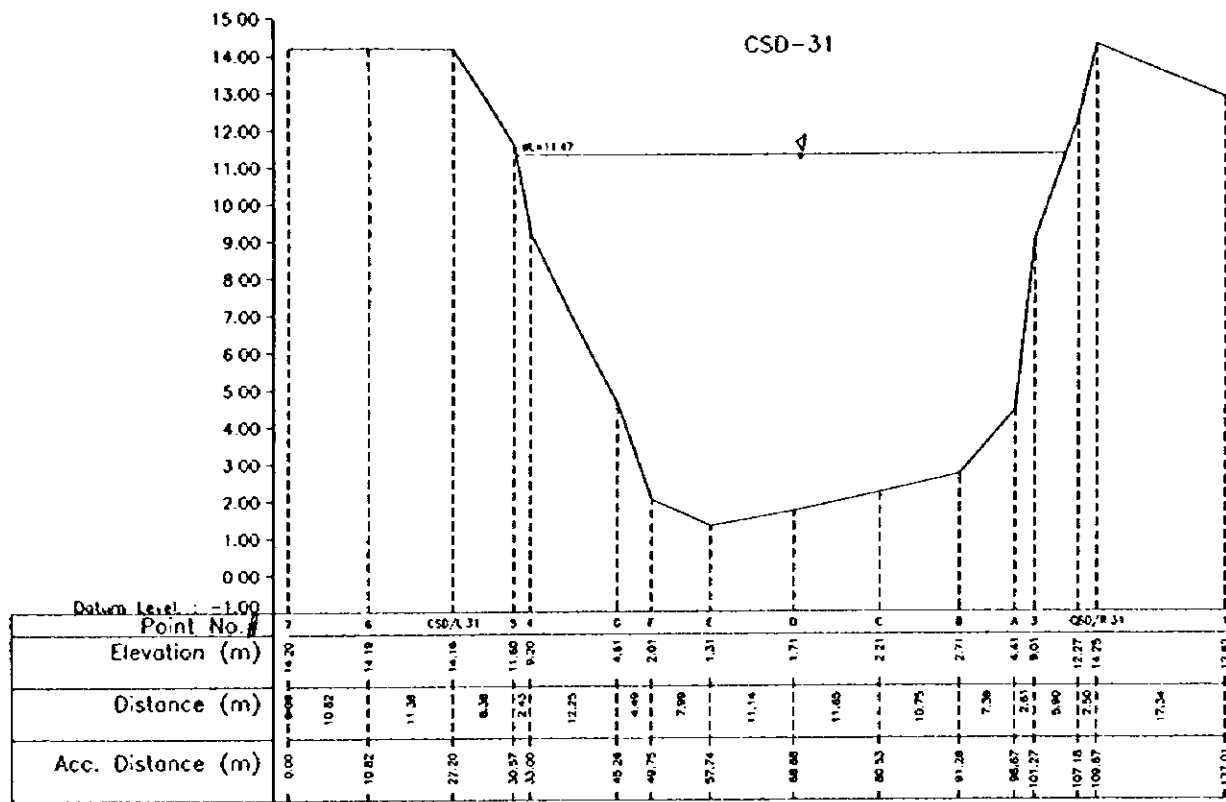
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

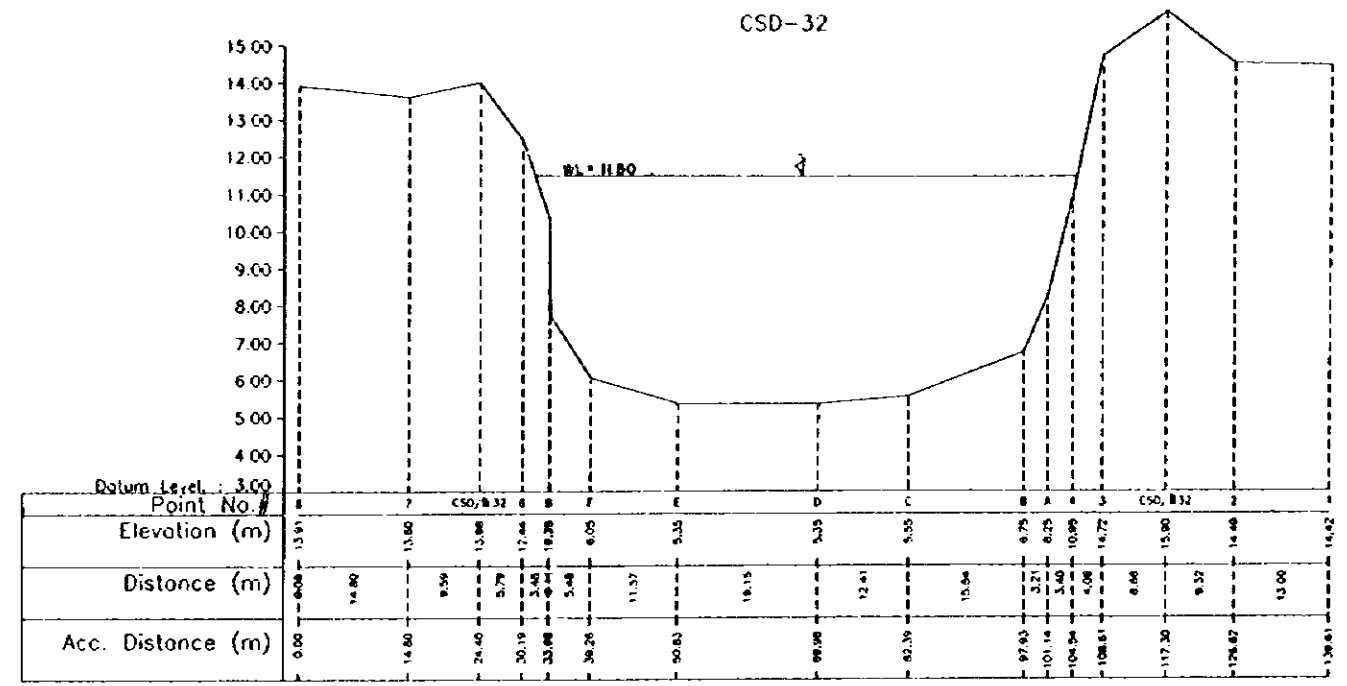
Name of River : **CISADANE RIVER**      Drawing Title : **CROSS SECTION**

Checked by : B. HONG	Approved by : S. HONG	Scale : Horizontal 1 : 500	Sheet No. : 12 of 56
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Vertical 1 : 100	
Date : 17.11.95	Date : 17.11.95		

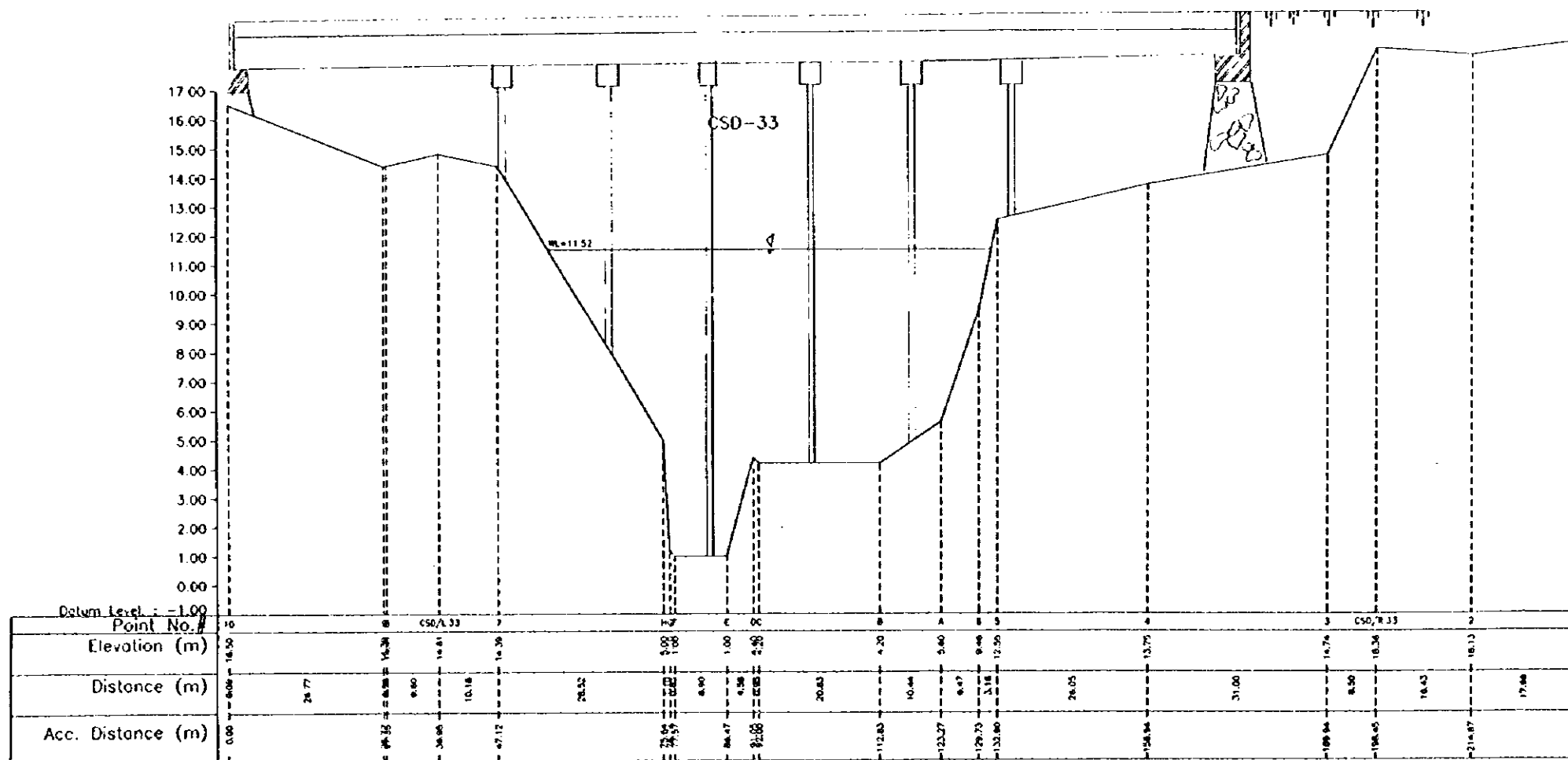
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WIRATMAN & Associates** JAKARTA - INDONESIA



Date : Sept 8 1995



Date : Sept 8 1995



Date : Sept 8 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 )  
 1:100  
 1:500  
 1:1000

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

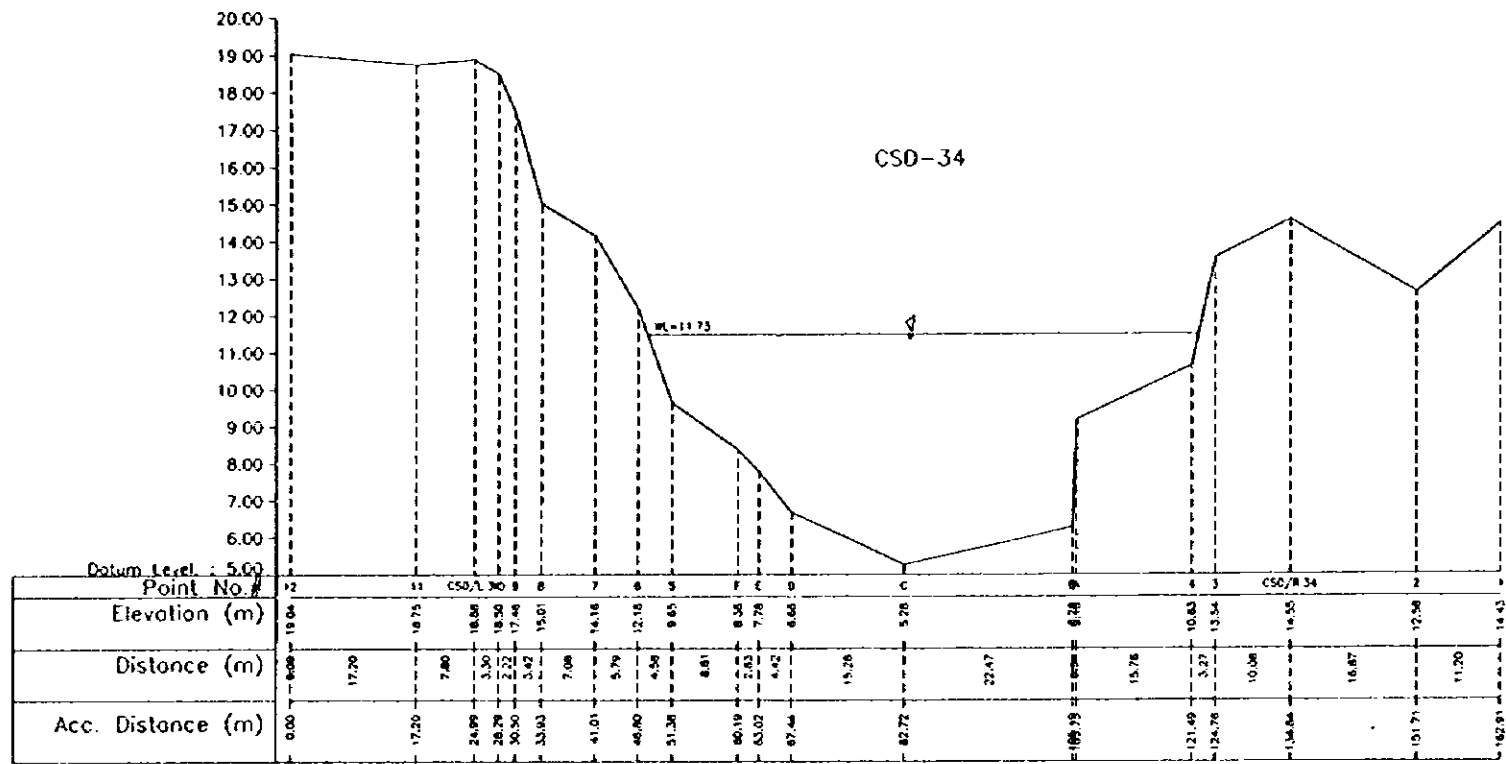
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

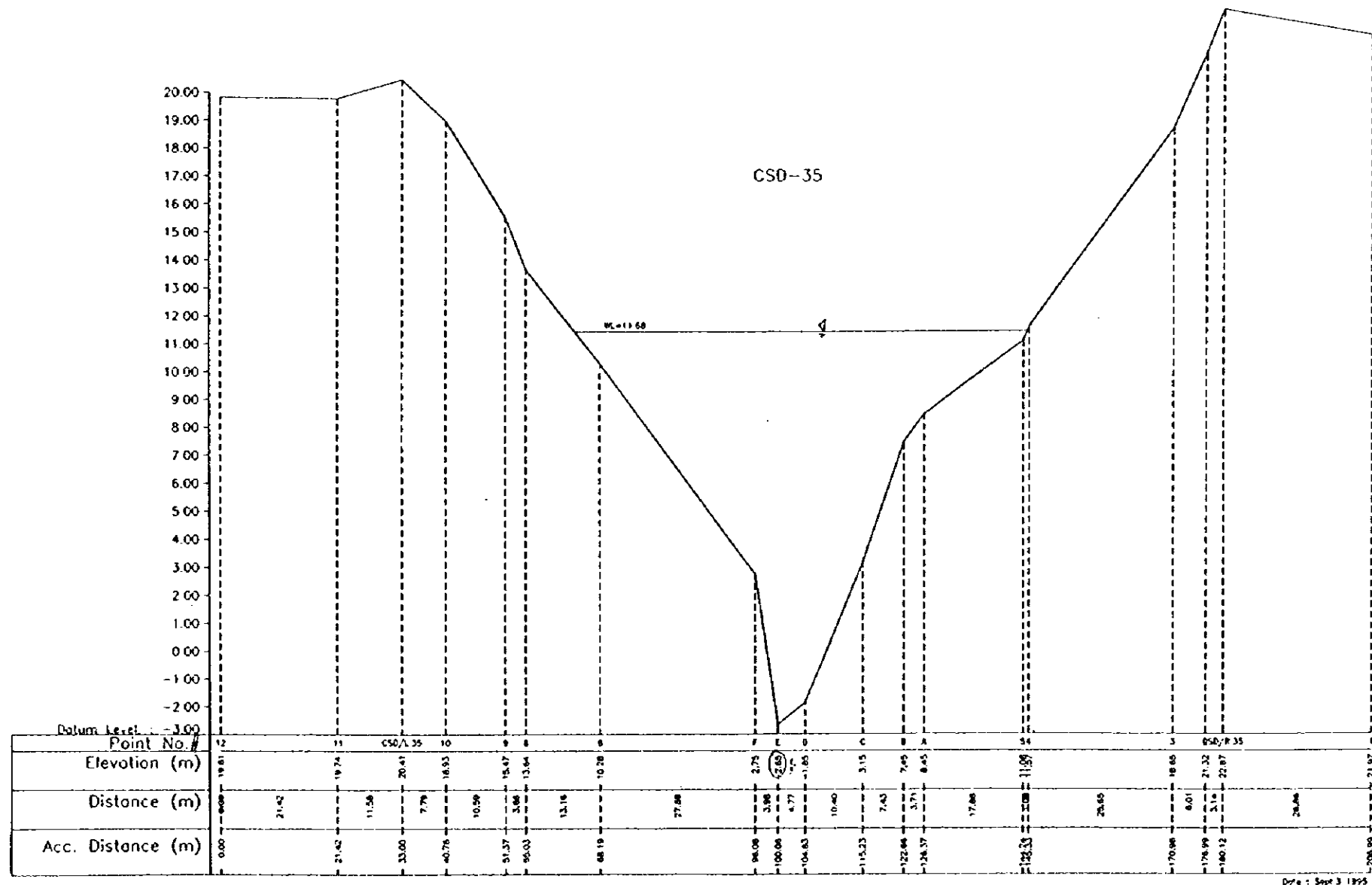
Checked by Name : BRUNO SOEDARTO Signature : <i>[Signature]</i> Date : 12.11.95	Approved by Name : I. SUN H. TORIUNE Signature : <i>[Signature]</i> Date : 12.11.95	Scale Horizontal : 1 : 500 Vertical : 1 : 100	Sheet No. 13 of 56
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**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WIDYAMAN & Associates** JAKARTA - INDONESIA





Date : Sept 3 1995



Date : Sept 3 1995

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 )  
 Scale: 1:100  
 No. = 1.500

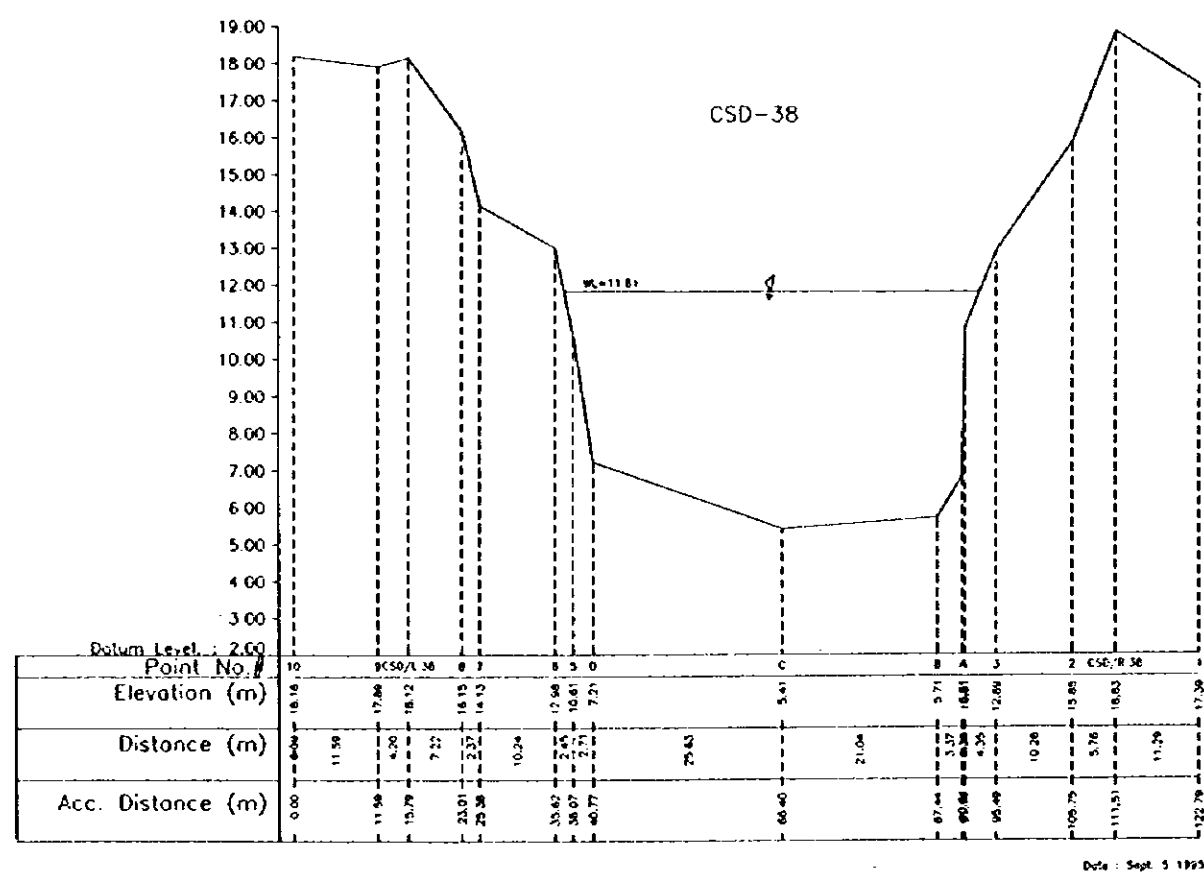
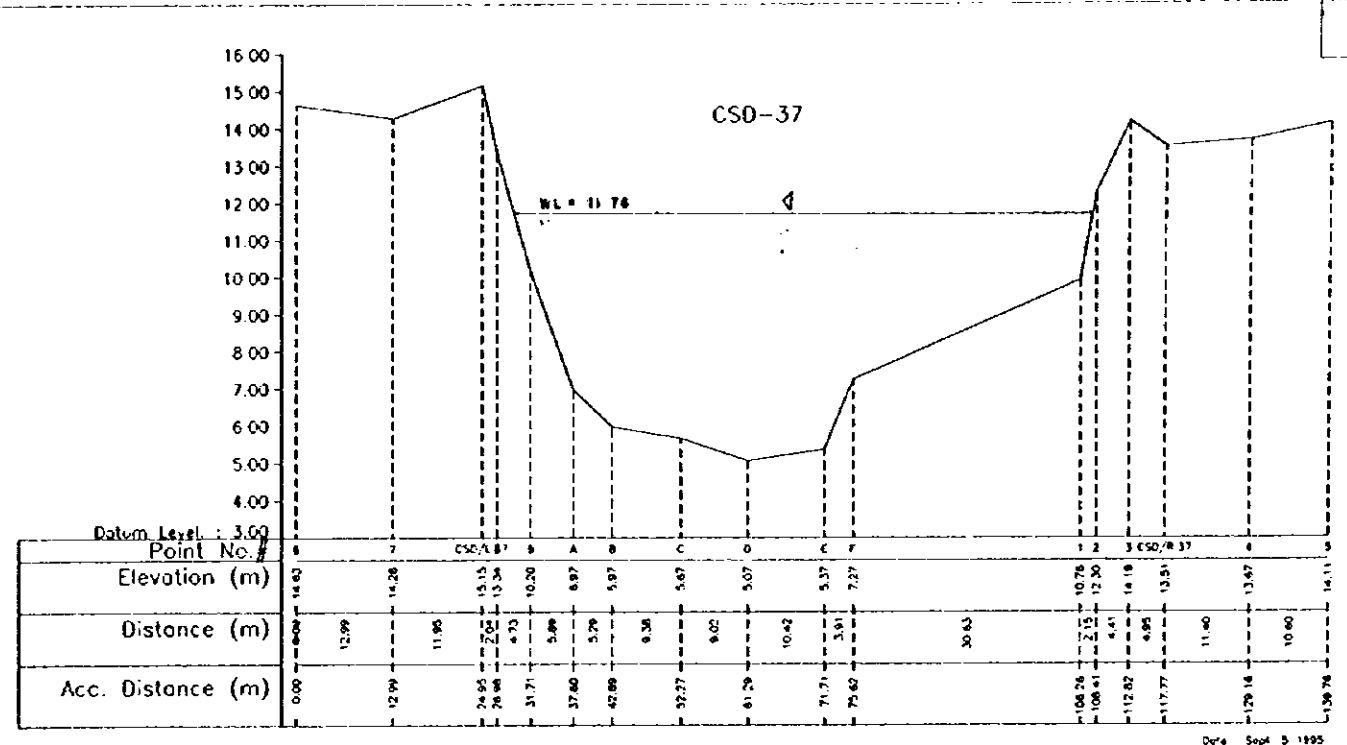
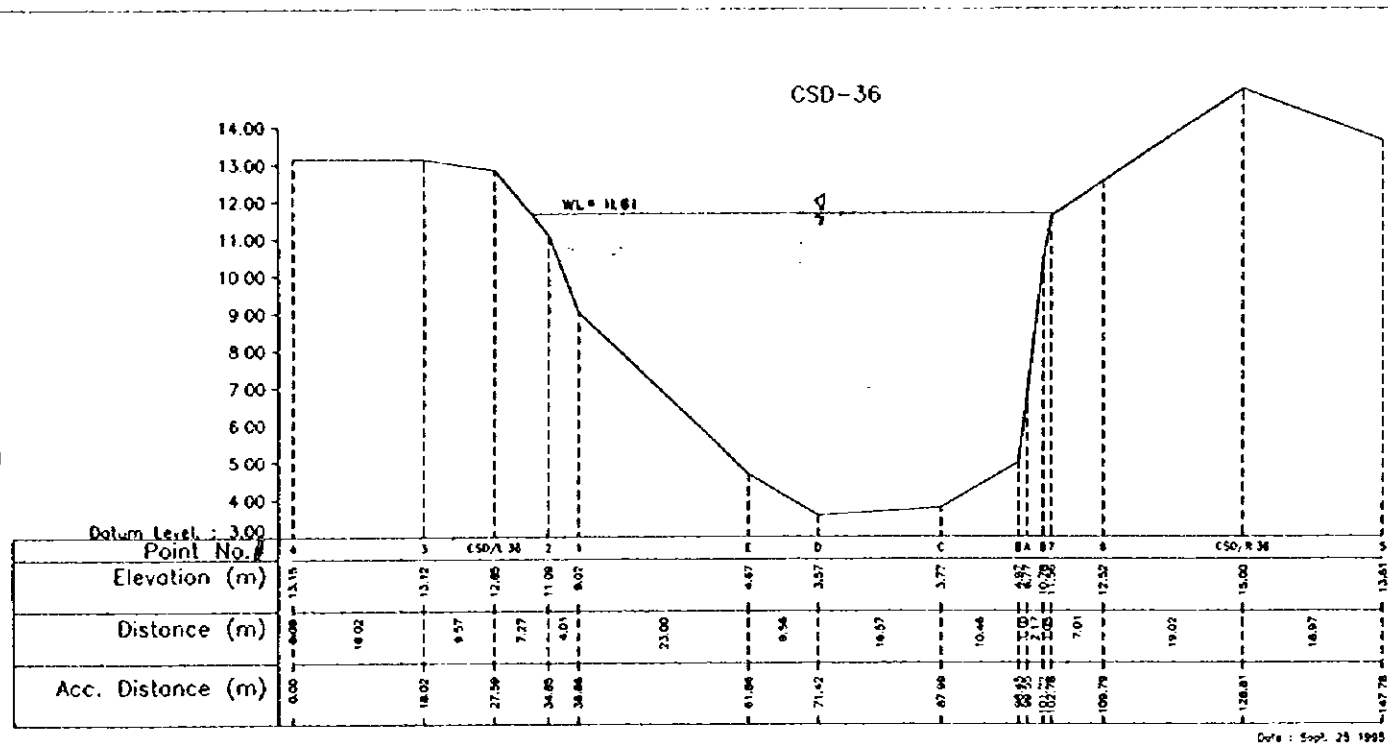
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No
BARUNG SOEPARTO	T. NUN H. TORANE	Horizontal 1 : 500	14 of 56
Signature	Date	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 = AWP = 0.975 meters = PP + ... meter

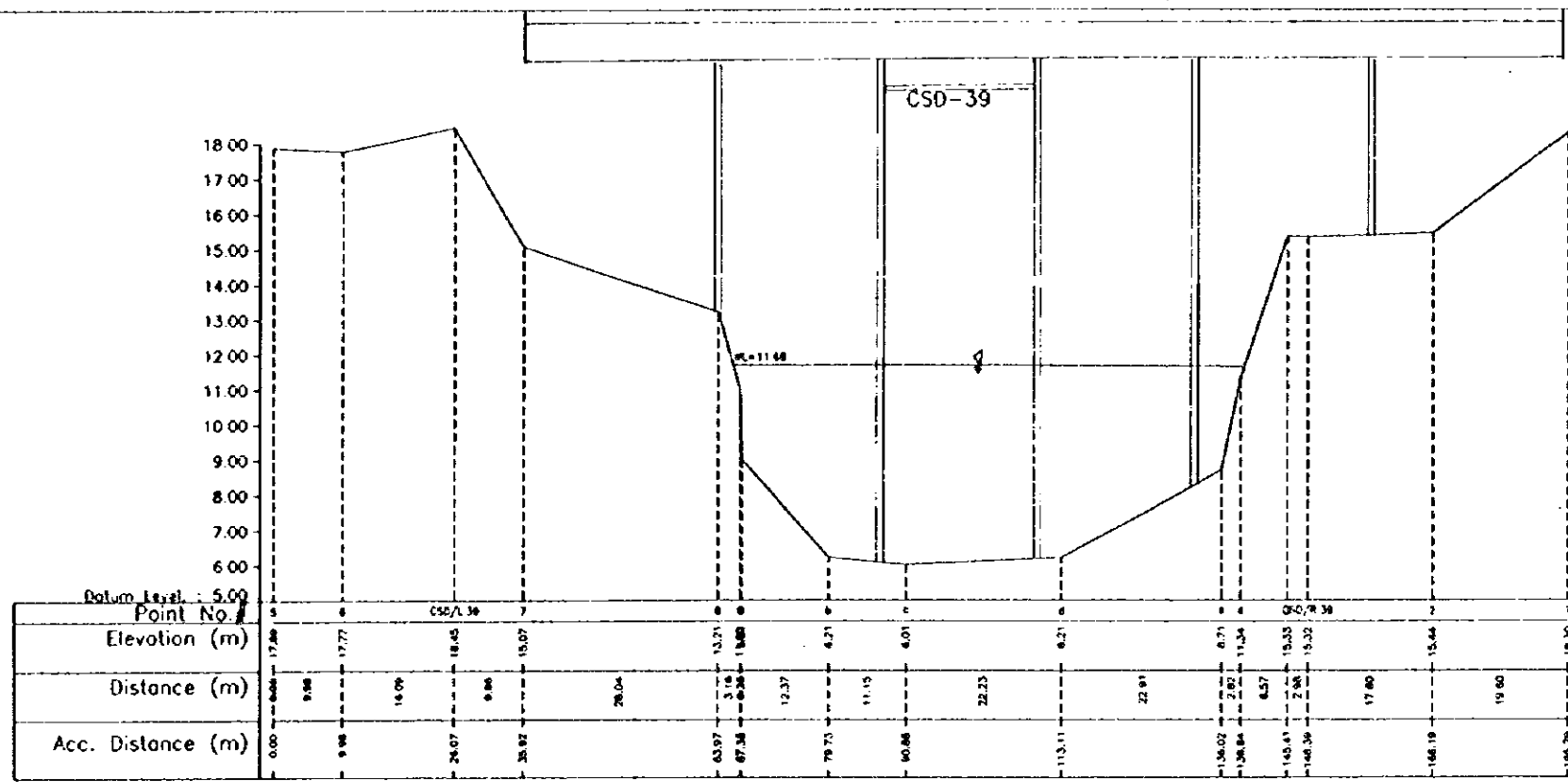
( IN METERS )  
 1 : 500

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

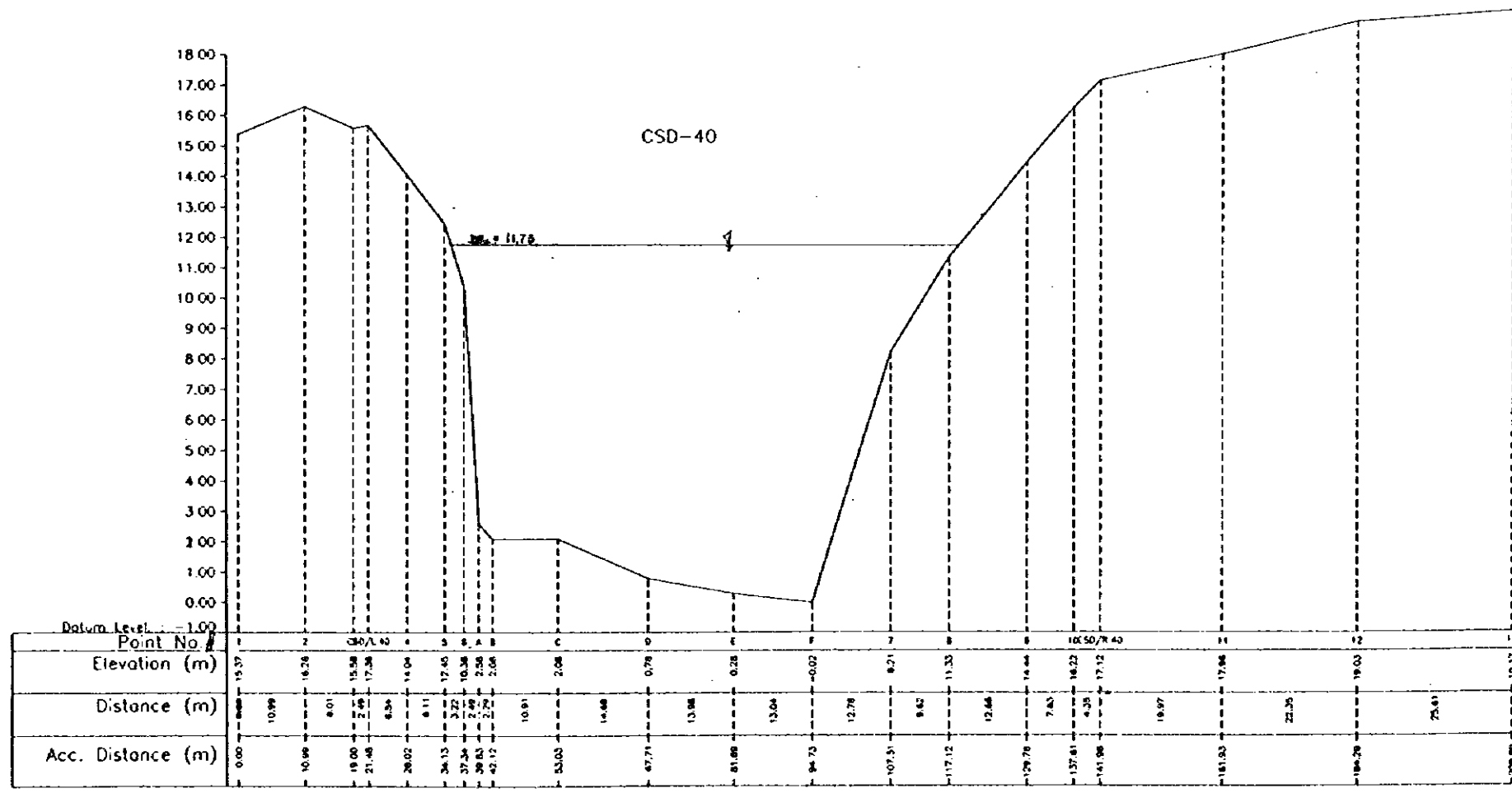
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by : <i>[Signature]</i>	Approved by : <i>[Signature]</i>	Scale	Sheet No
Signature : <i>[Signature]</i>	Date : 14. 11. 95	Horizontal : 1 : 500	15 of 56
		Vertical : 1 : 100	

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



Date : Sept. 5 1995



Date : Sept. 9 1995

Reference Point :  
 The Elevation is referred to TIG 177 = 43.156 meters  
 The correlation between other system are :  
 TIG 177 ± 0 = ACP = 0.975 meters + PP + ... meter

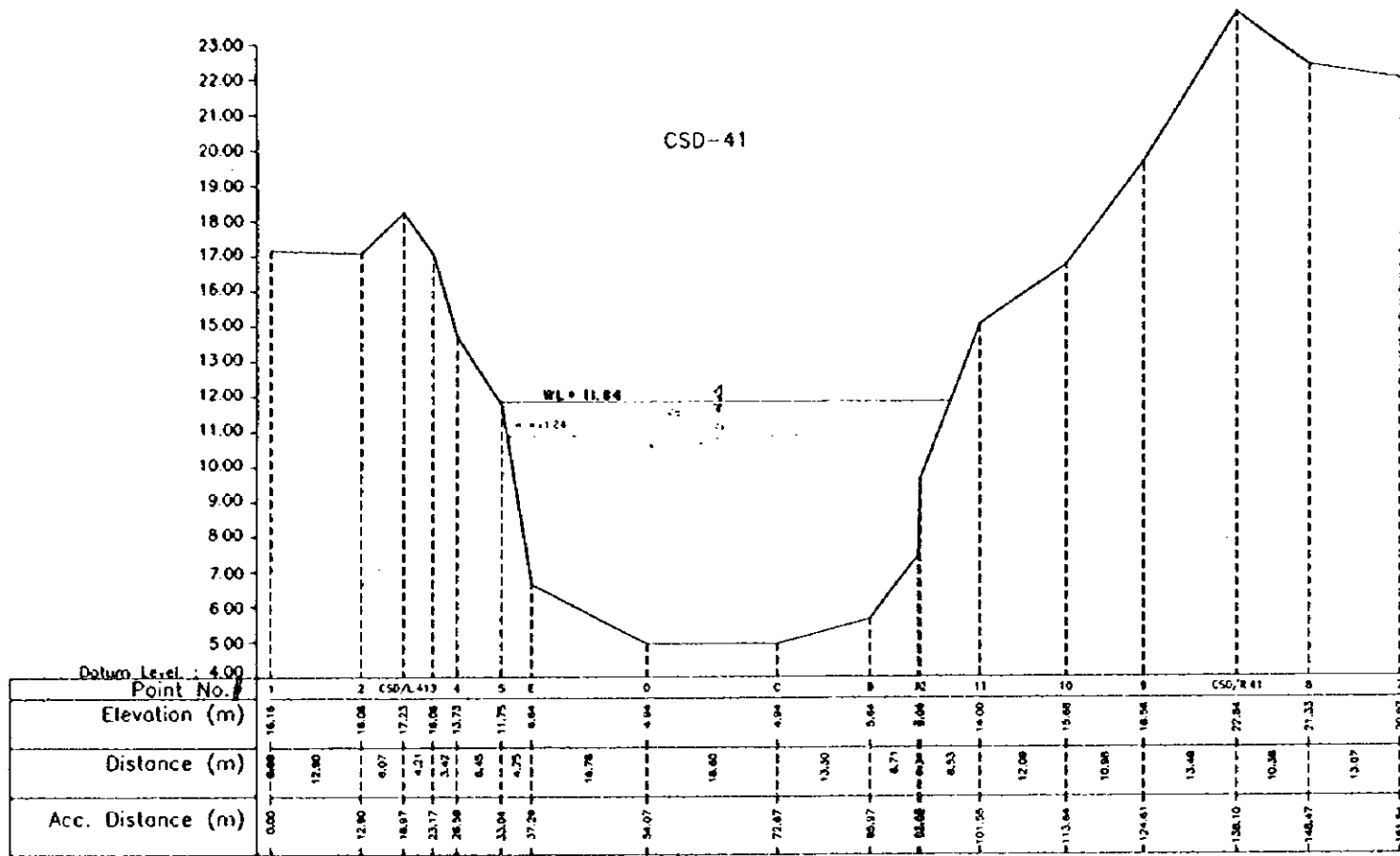
( IN METERS )  
 1 : 500

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

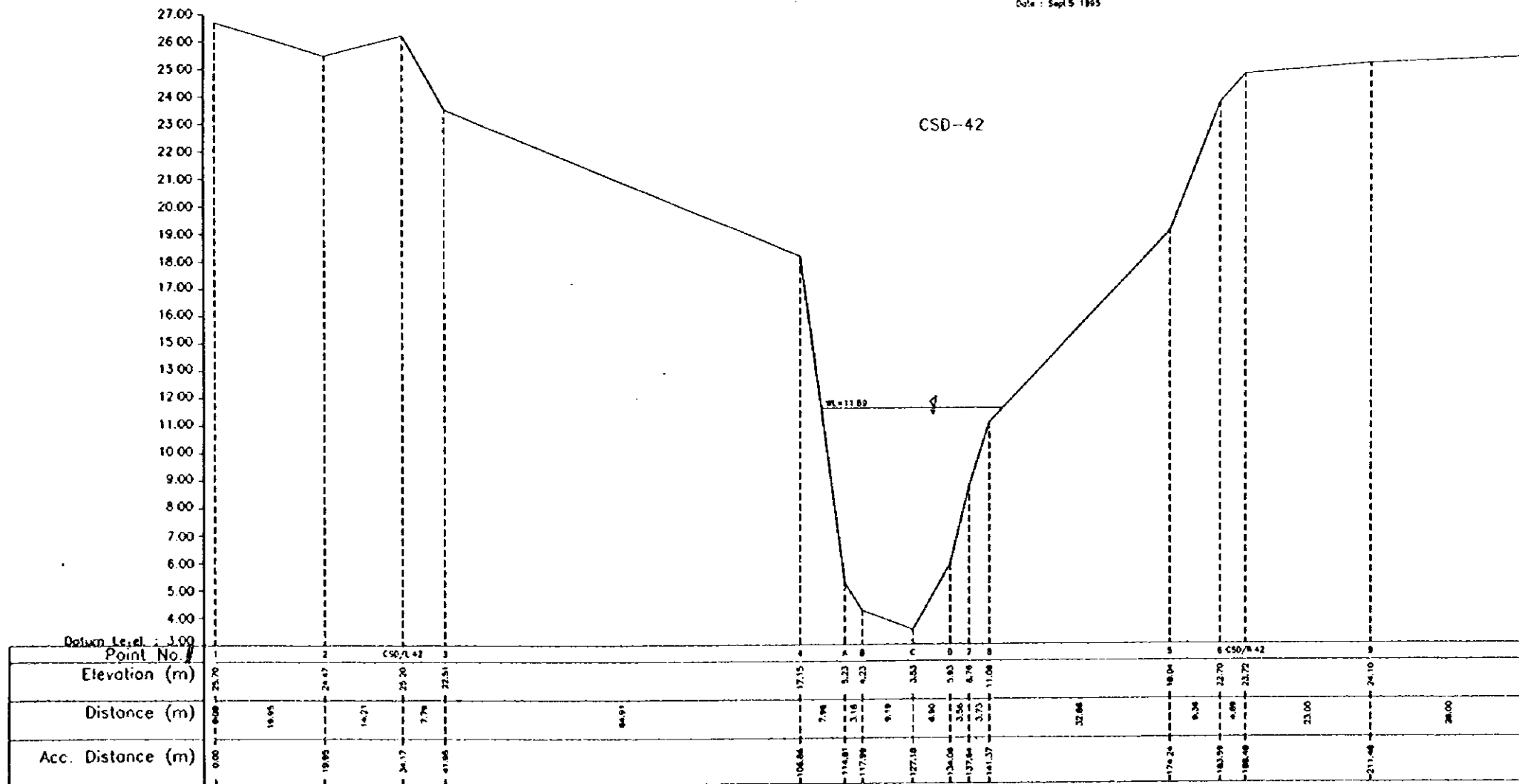
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JASOTABEK**

Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Created by BRMHO SCDD/PID T. BAN K. TOPANE	Approved by <i>[Signature]</i>	Scale Horizontal 1 : 500 Vertical 1 : 100	Sheet No. 16 of 56

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



Date : Sept 5 1995



Date : Sept 4 1995

Reference Point :  
 The Elevation is referred to TIG 177 = 40.136 meters  
 The Correlation between other system are :  
 TIG 177 ± 0 = ICPP = 0.875 meters = PP ± 0.136 meters

( IN SYSTEM )  
 Scale : 1 : 500

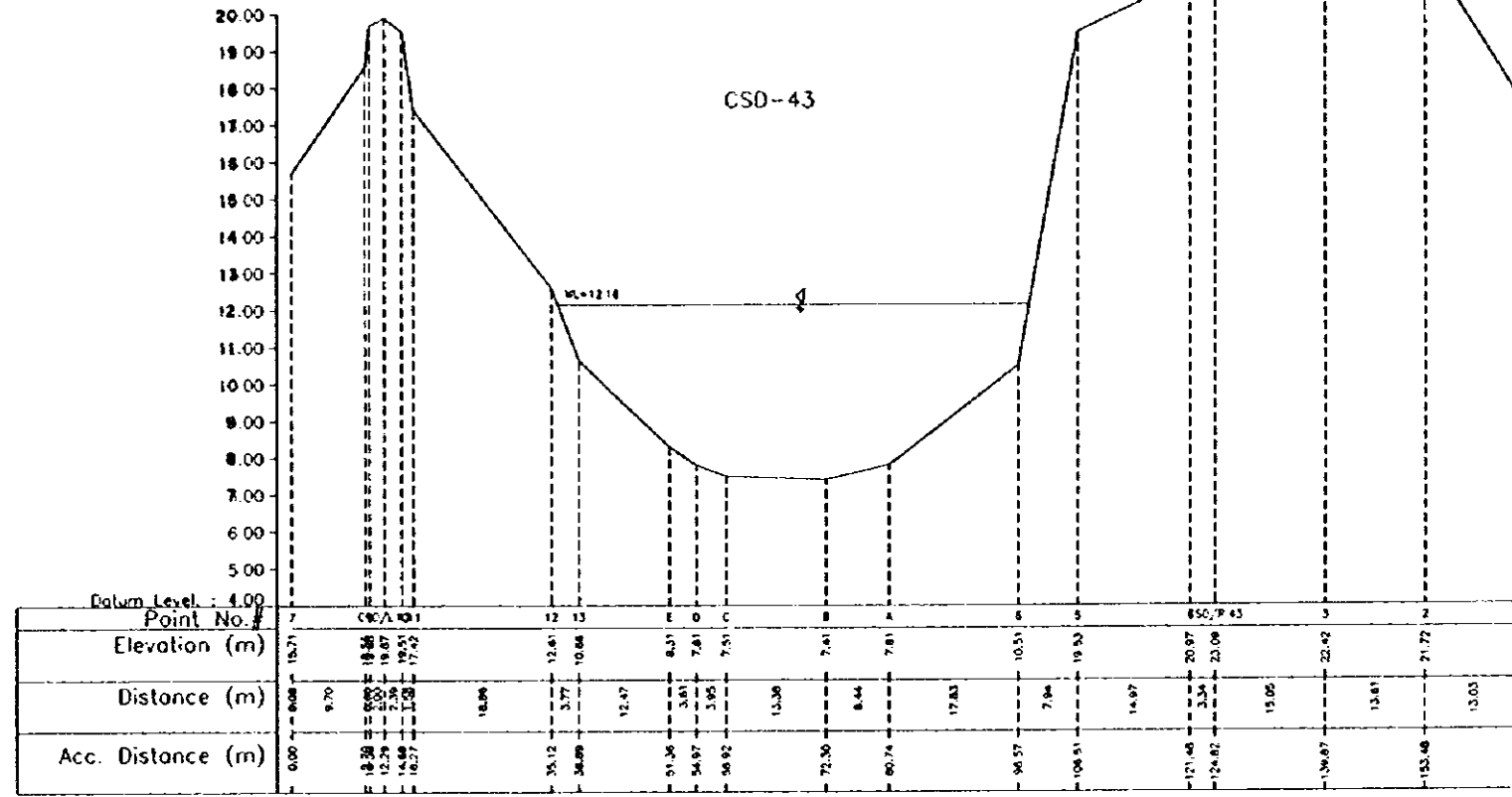
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

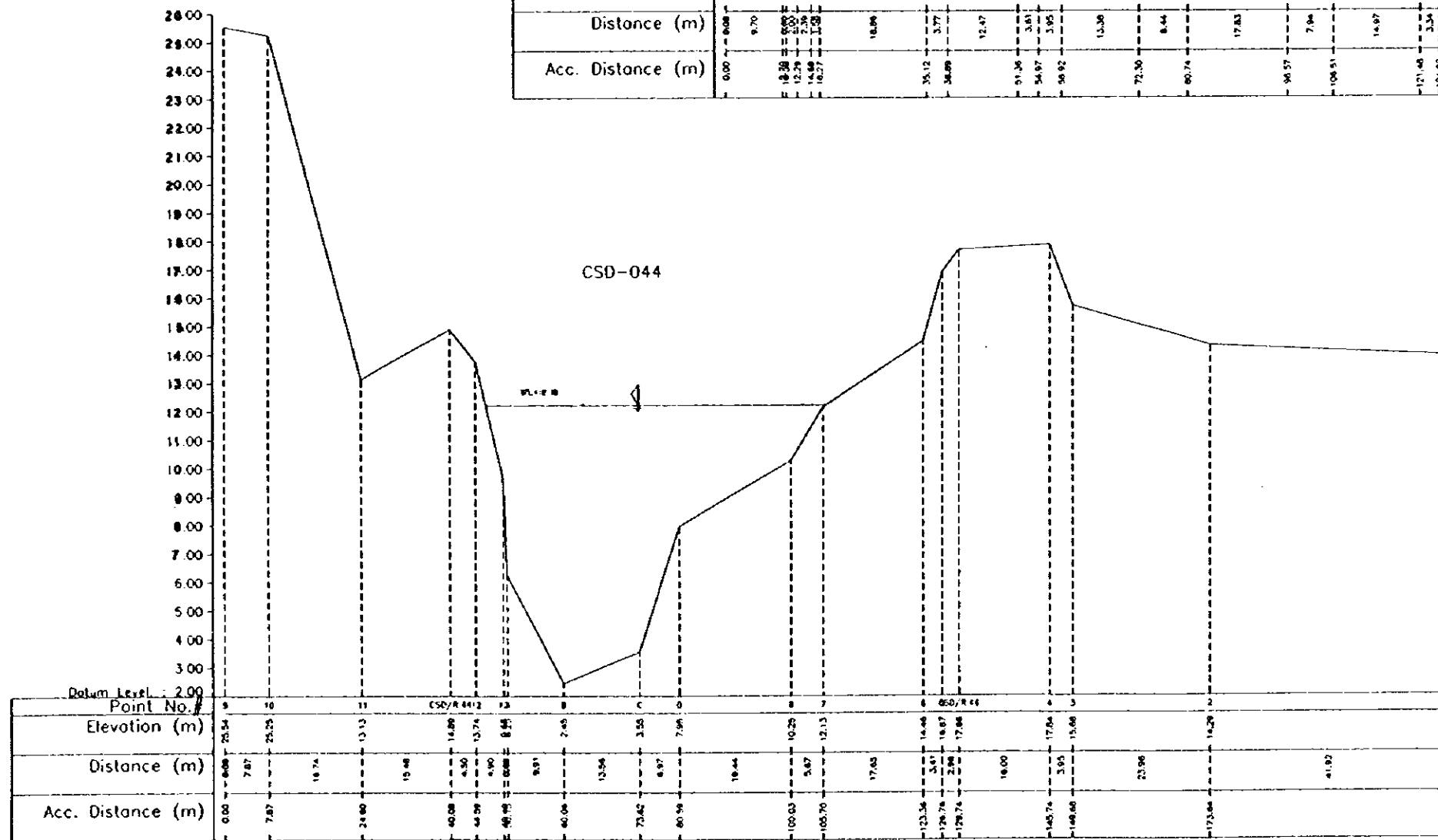
Name of River : CISADANE RIVER  
 Drawing Title : CROSS SECTION

Checked by : BAHNO SUDARNO	Approved by : H. TOPANE	Scale : Horizontal 1 : 500	Sheet No. : 17 of 56
Signature : [Signature]	Date : 14.09.95	Vertical 1 : 100	

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 WHATMAN & Associates JAKARTA - INDONESIA



Date : Sept 4 1993



Date : Sept 4 1993

**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

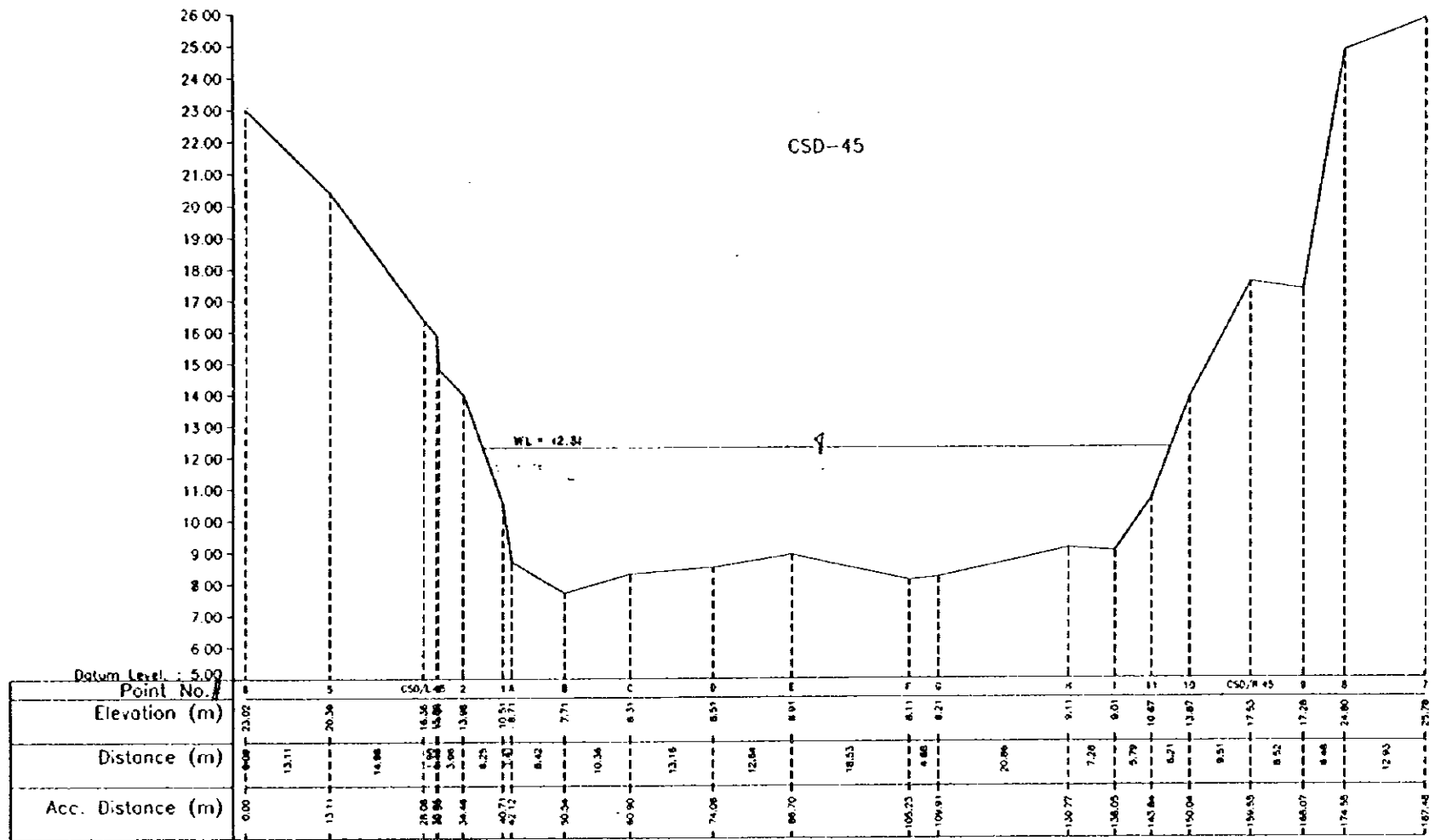
( in meters )

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

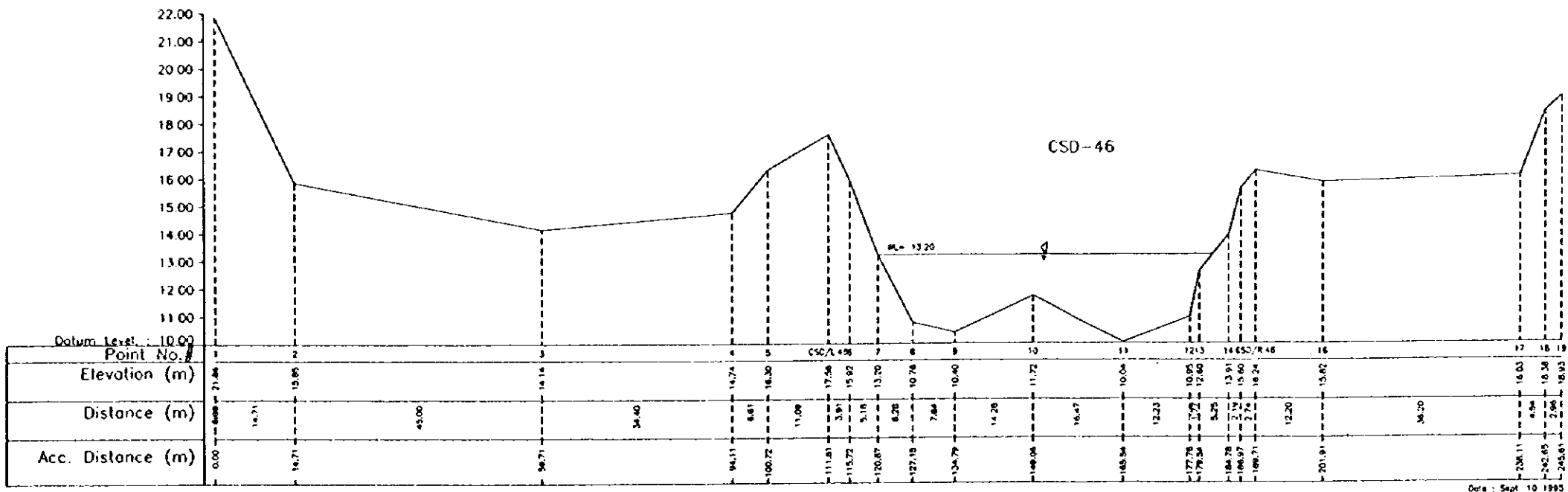
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by : <i>[Signature]</i>	Approved by : <i>[Signature]</i>	Scale : Horizontal 1 : 500 Vertical 1 : 100	Sheet No : 18 of 56

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



Date : Sept 4 1995



Date : Sept 10 1995

Reference Point :  
 The Elevation is related to TIG 177 = 43.136 meters  
 The correlation between other system are  
 TIG 177 ± 0 = hXP = 0.975 meters = PP ± 0.975 meter

( IN METERS )  
 1 : 500

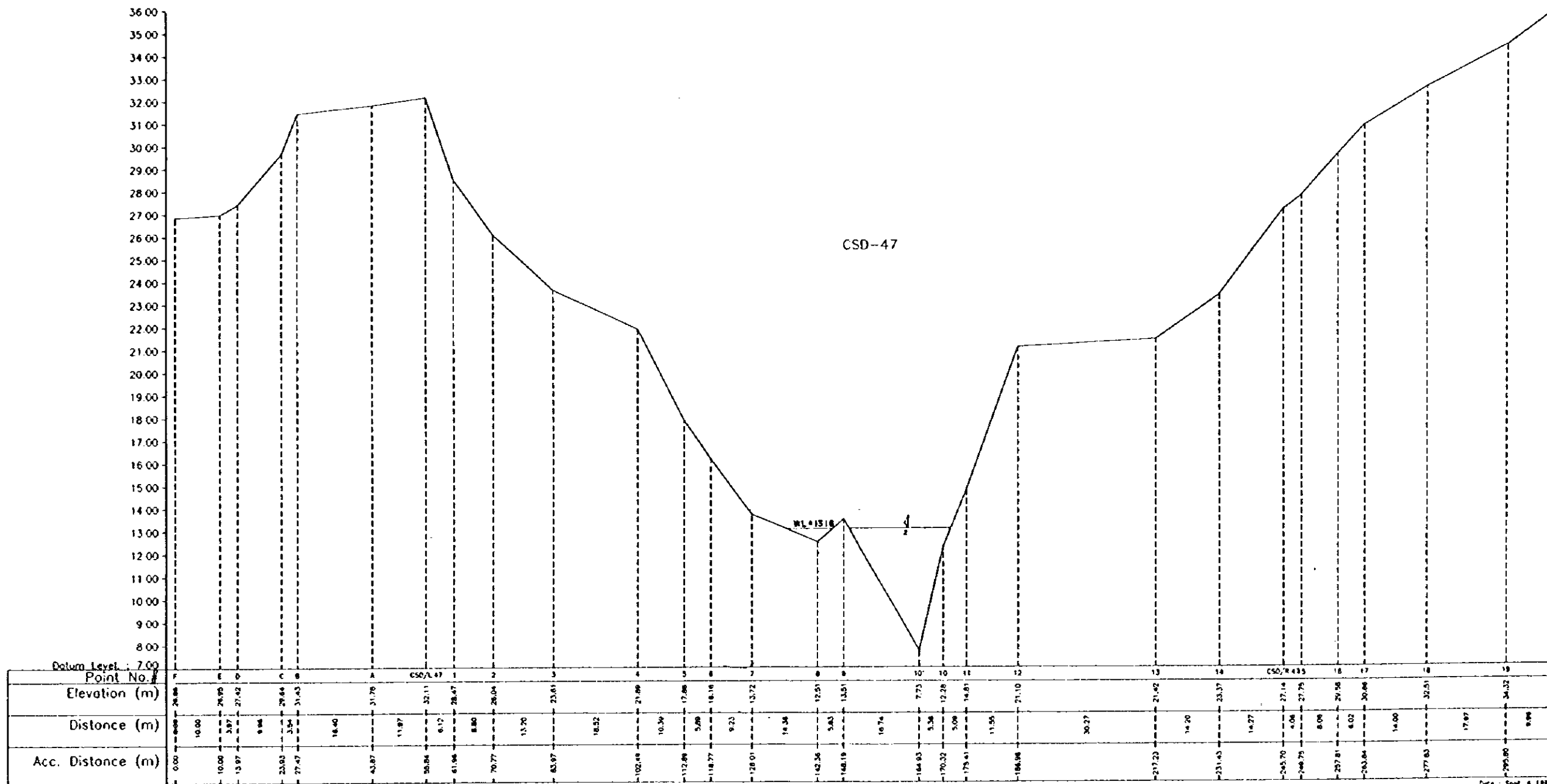
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No
None	None	Horizontal 1 : 500	19 of 56
Signature	Signature	Vertical 1 : 100	
Date	Date		

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



Reference Point :  
 The Elevation is referred to TIG 177 = 40 336 meters  
 The correlation between other system are :  
 TIG 177 ± 0 = MSL + 0.975 meter = PP + 1.12 meter

( IN METERS )  
 0 10 20 30 40 50  
 1 : 500

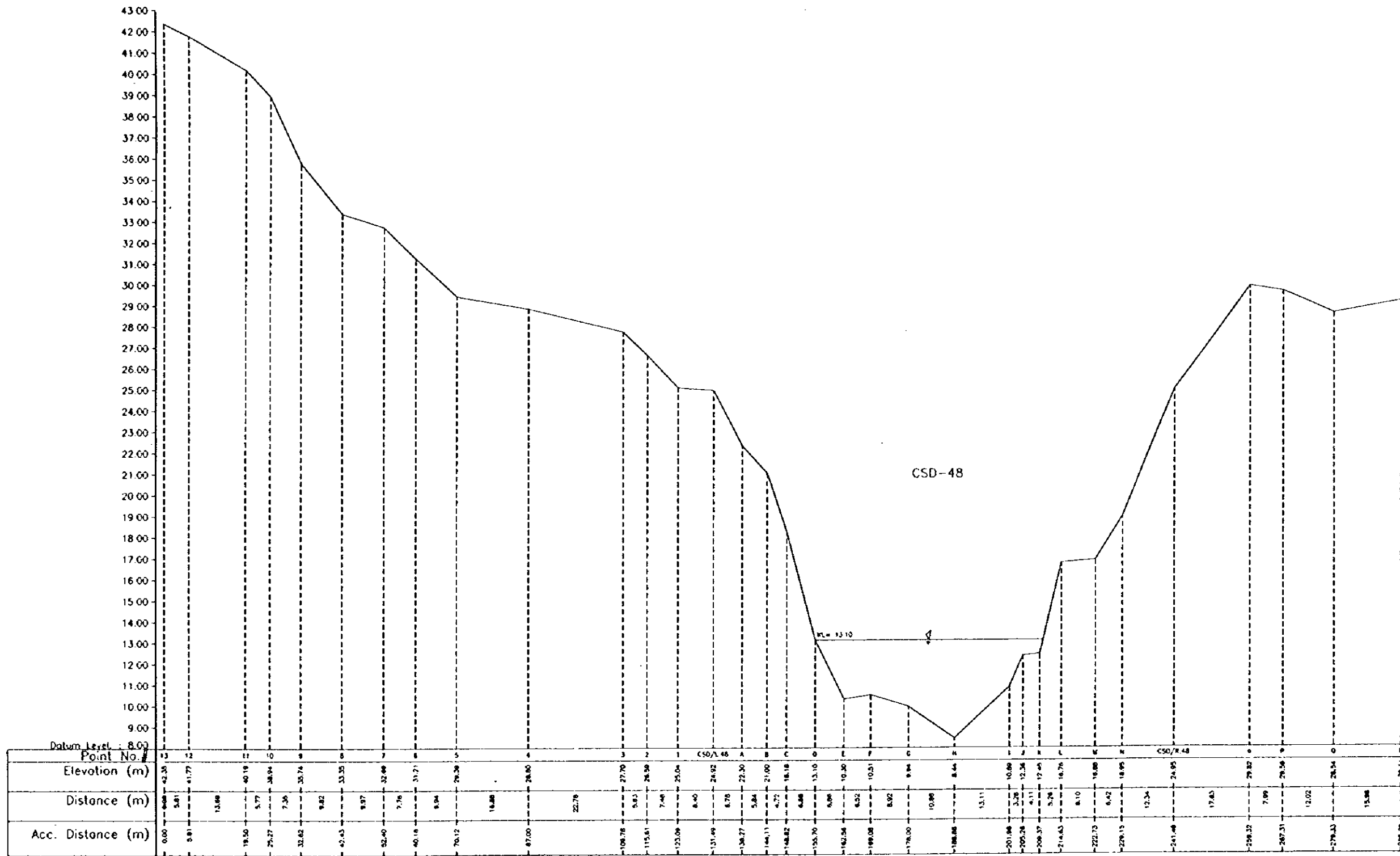
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No.
Name : BAHONO	Name : H. TOPANE	Horizontal : 1 : 500	20 of 56
Signature : [Signature]	Signature : [Signature]	Vertical : 1 : 100	
Date : 15.11.2011	Date : 15.11.2011		

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



Date : Sep. 4 1995

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

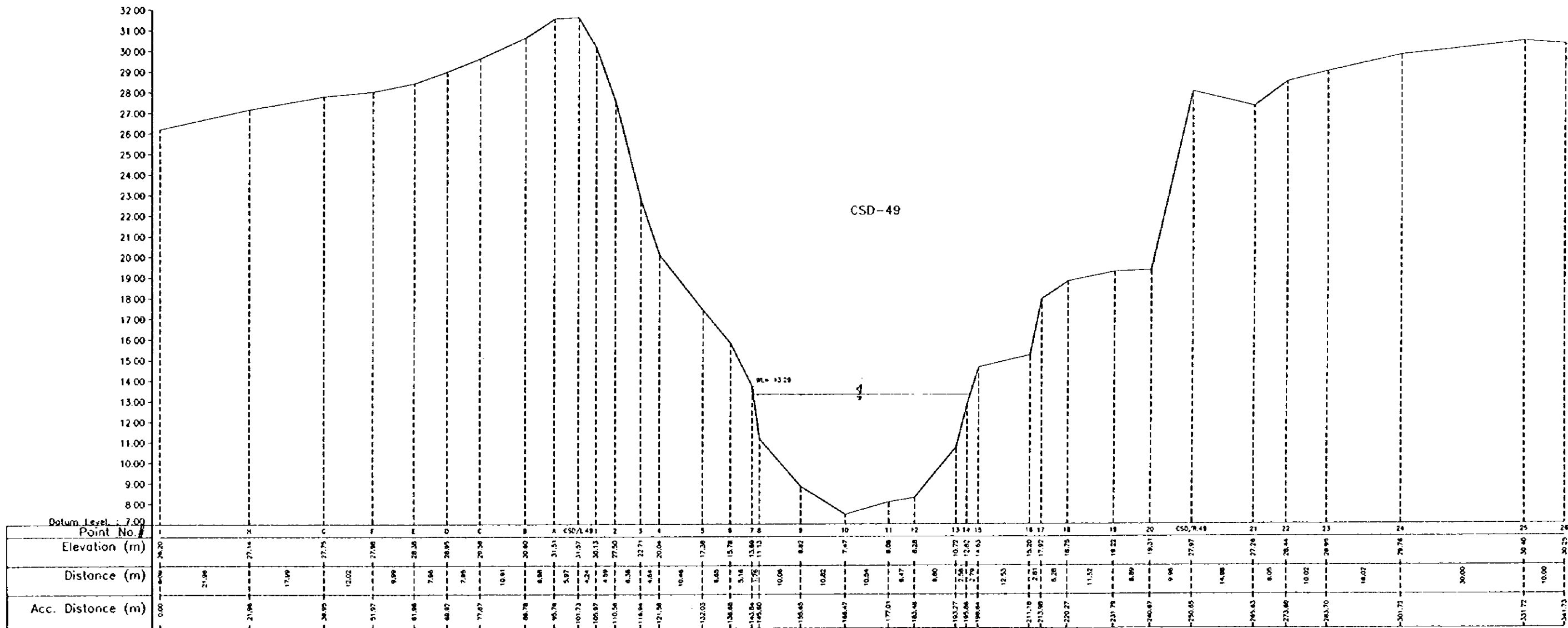
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked By : BARMHO	Approved By : K. SUPANE	Scale : Horizontal 1 : 500 Vertical 1 : 100	Sheet No : 21 of 56
Signature : 18.11.95		Date : 18.11.95	

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

**WIRATMAN & Associates**  
 JAKARTA - INDONESIA





Date : Sept 4 1985

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 = FP ± ... meter

( IN METERS )  
 1 : 500  
 1 : 100  
 No = 1/600

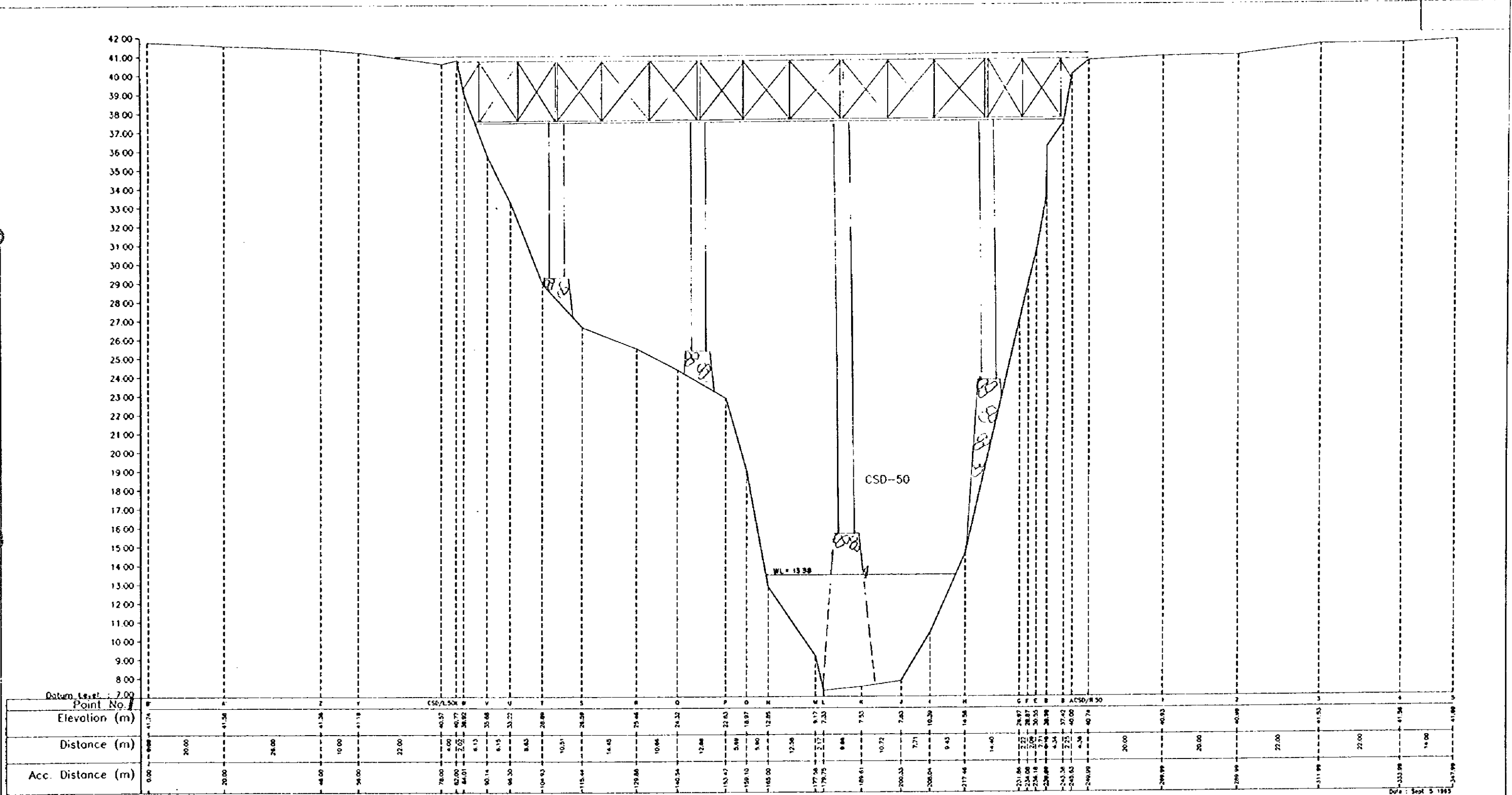
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No
Name : <b>BRUNO</b>	Name : <b>K. TOPANE</b>	Horizontal 1 : 500	22 of 56
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Vertical 1 : 100	
Date : <b>14.8.85</b>	Date : <b>14.8.85</b>		

**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 = AWP - 0.975 meters = RP ± 0.136 meters

( IN METERS )  
 1 : 100  
 1 : 500  
 1 : 1,000

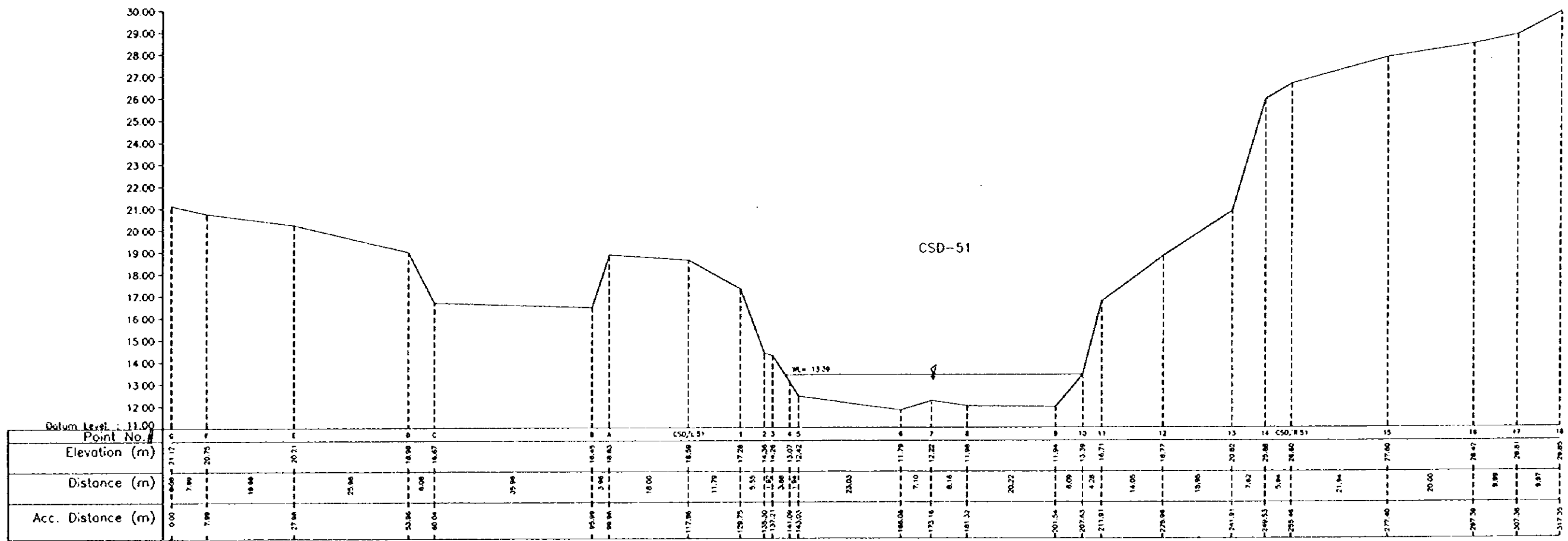
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by Name : <b>BIRONO</b> Signature : <i>[Signature]</i> Date : <b>14. 11. 85</b>	Approved by Name : <b>K. KURNIA</b> Signature : <i>[Signature]</i> Date : <b>16. 11. 85</b>	Scale Horizontal : 1 : 500 Vertical : 1 : 100	Sheet No. 23 of 56
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**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WIATMAN & Associates** JAKARTA - INDONESIA



Date : Sep. 5 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 )  
 Scale: 1:500 (Horizontal), 1:100 (Vertical)

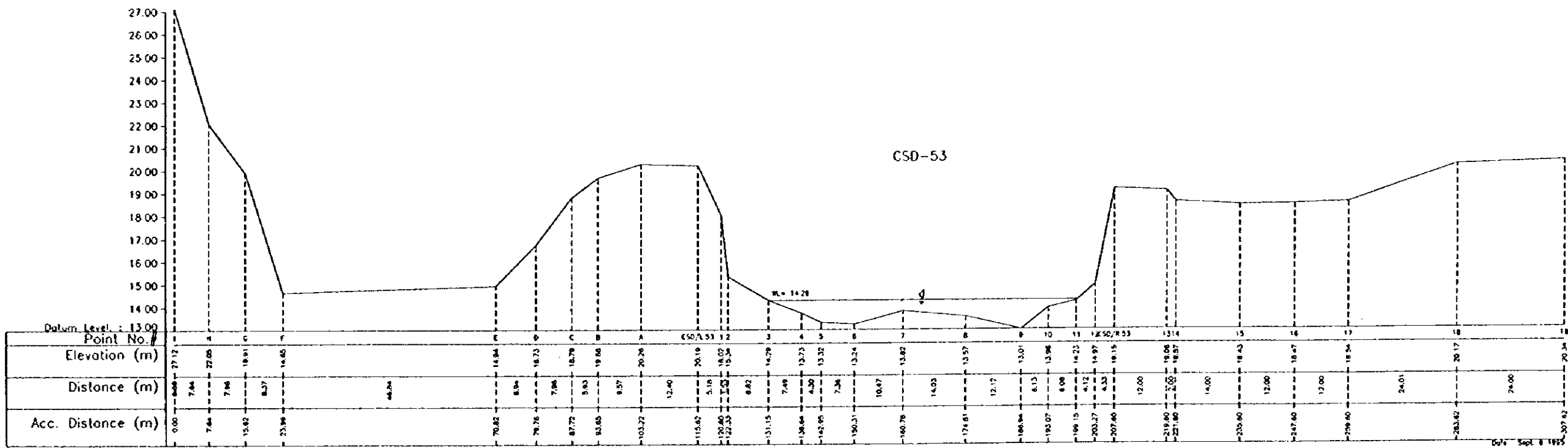
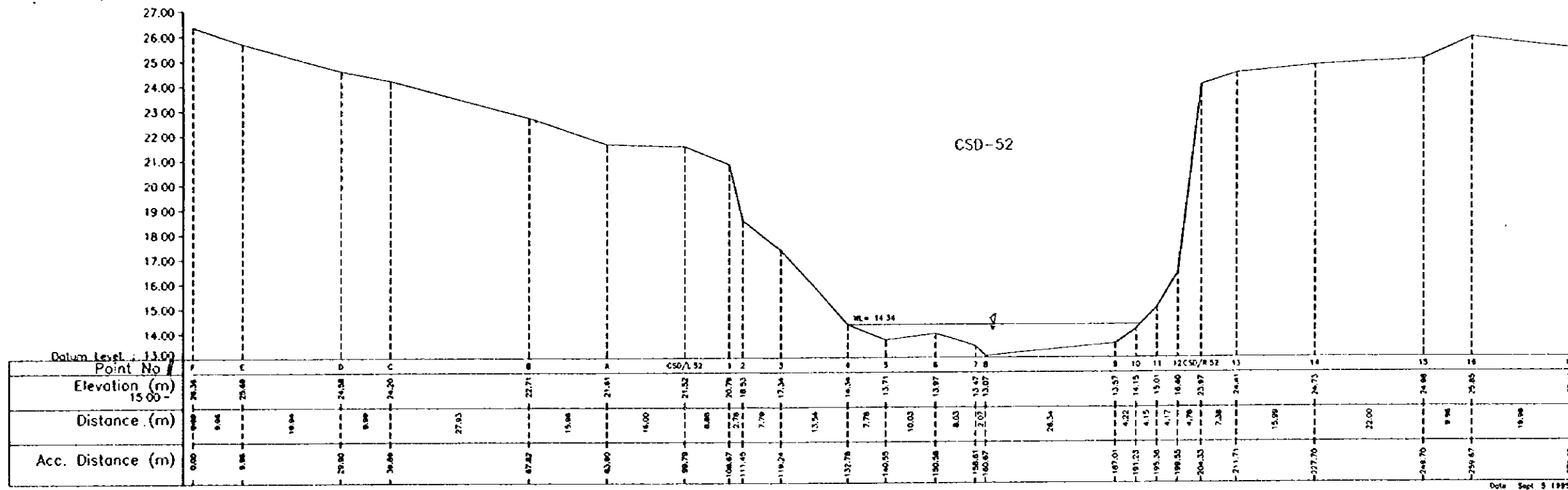
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No
BRAND SOEDARTO	I. H. K. TOPIANE	Horizontal 1 : 500 Vertical 1 : 100	24 of 55

**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 & D = KWP - 0.975 meters = PP + . . . meter

( IN METERS )  
 1 : 100  
 1 : 500  
 1 : 1000  
 1 : 2000  
 1 : 5000  
 1 : 10000

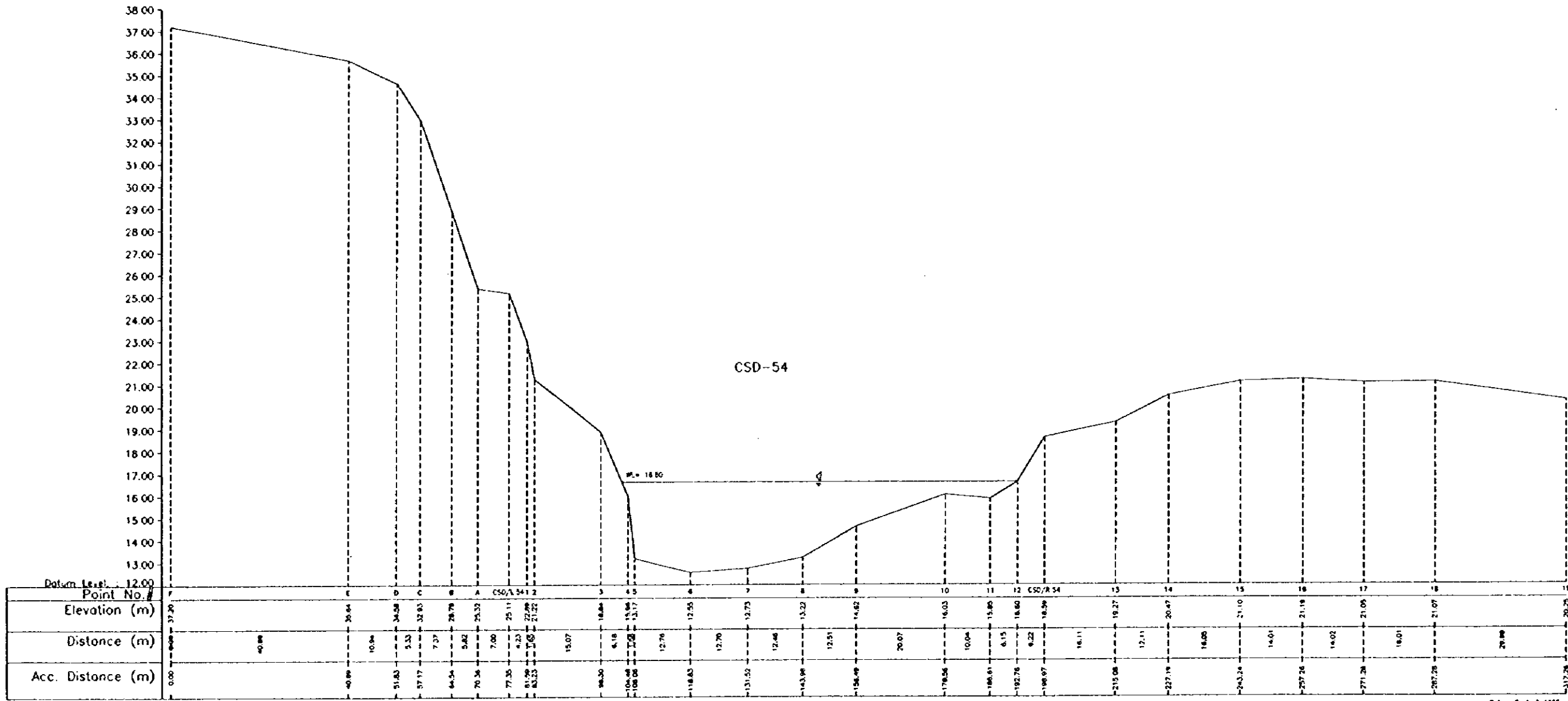
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked By	Approved By	Scale	Sheet No
Name : BRUNO	Name : K. TOMANE	Horizontal 1 : 500	25 of 56
Signature : [Signature]	Signature : [Signature]	Vertical 1 : 100	
Date : 14.11.95	Date : 21.11.95		

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



Date : Sept. 8 1995

Reference Point :  
 The Elevation is referred to FIG 127 = 40.136 meters  
 The correlation between other system are :  
 FIG 127 ± 0 = WPM = 0.875 meters = 29' 4" meter

( IN METERS )  
 1 : 500

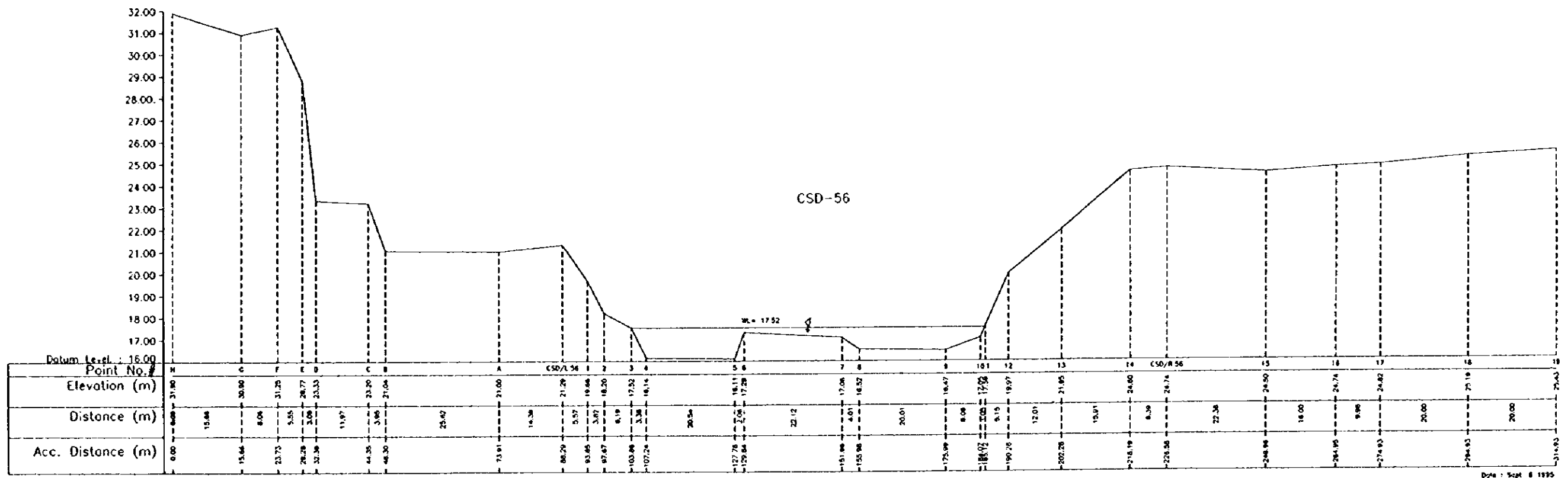
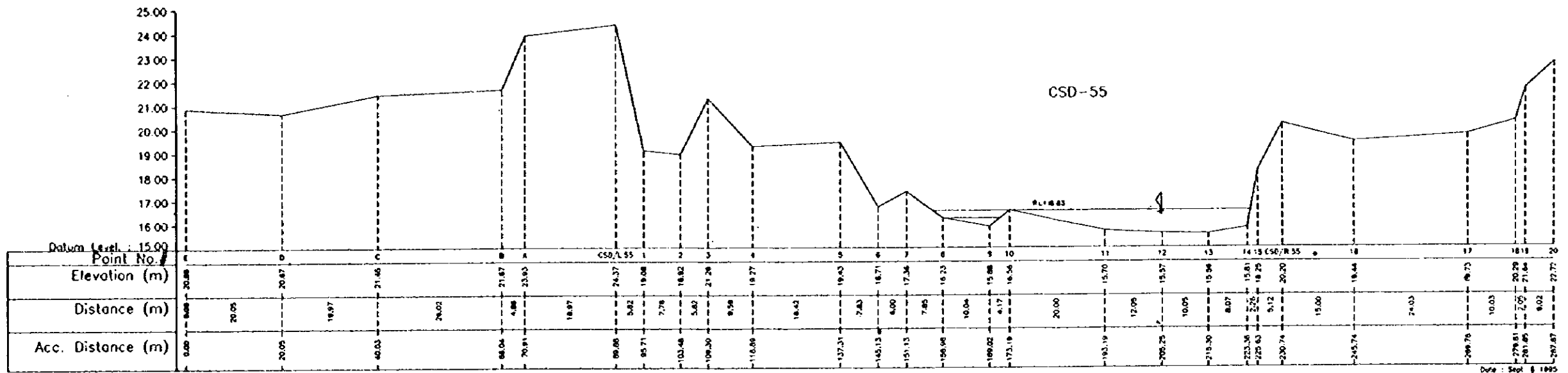
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked By	Approved By	Scale	Sheet No
Name : BARDHO SOEDIPLO I BAW K. TOHUNE		Horizontal 1 : 500	26 of 56
Signature : [Signatures]		Vertical 1 : 100	
Date : 14.11.95 16.11.95 16.11.95			

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



Date: Sept 8 1995

Reference Point:  
 The Elevation is referred to ITG 177 = 40.134 meters  
 The correlation between other system are:  
 ITG 177 ± 0 = ANP - 0.875 meters = PP ± 0.000 meter

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

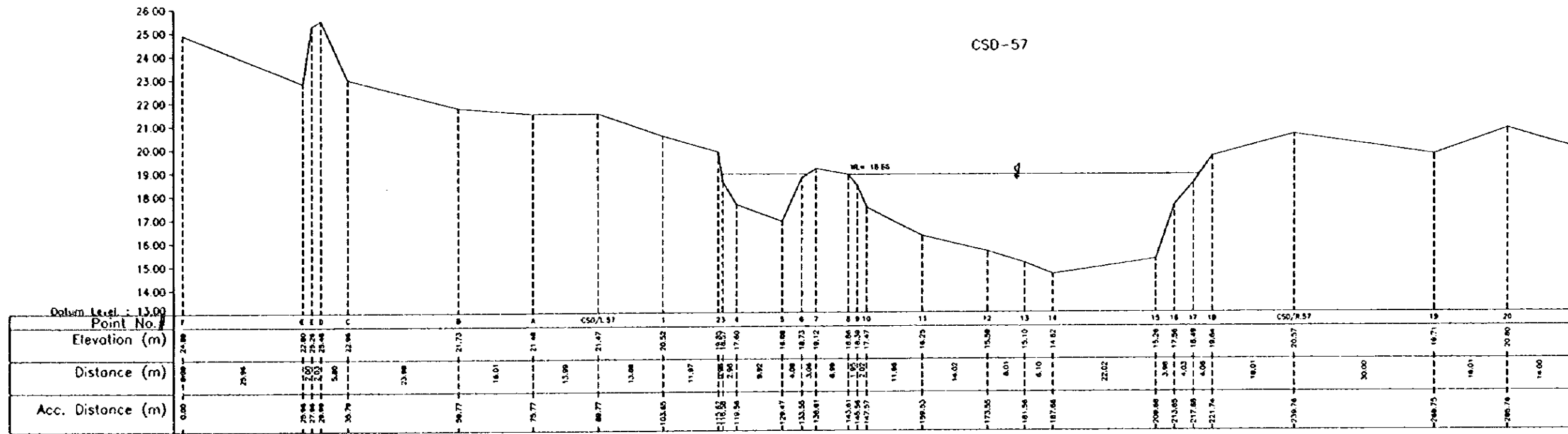
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JASOTABEK**

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

Checked by	Approved by	Scale	Sheet No.
None	None	Horizontal 1 : 500	27 of 55
None	None	Vertical 1 : 100	

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



Date: Sept 7 1985

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

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

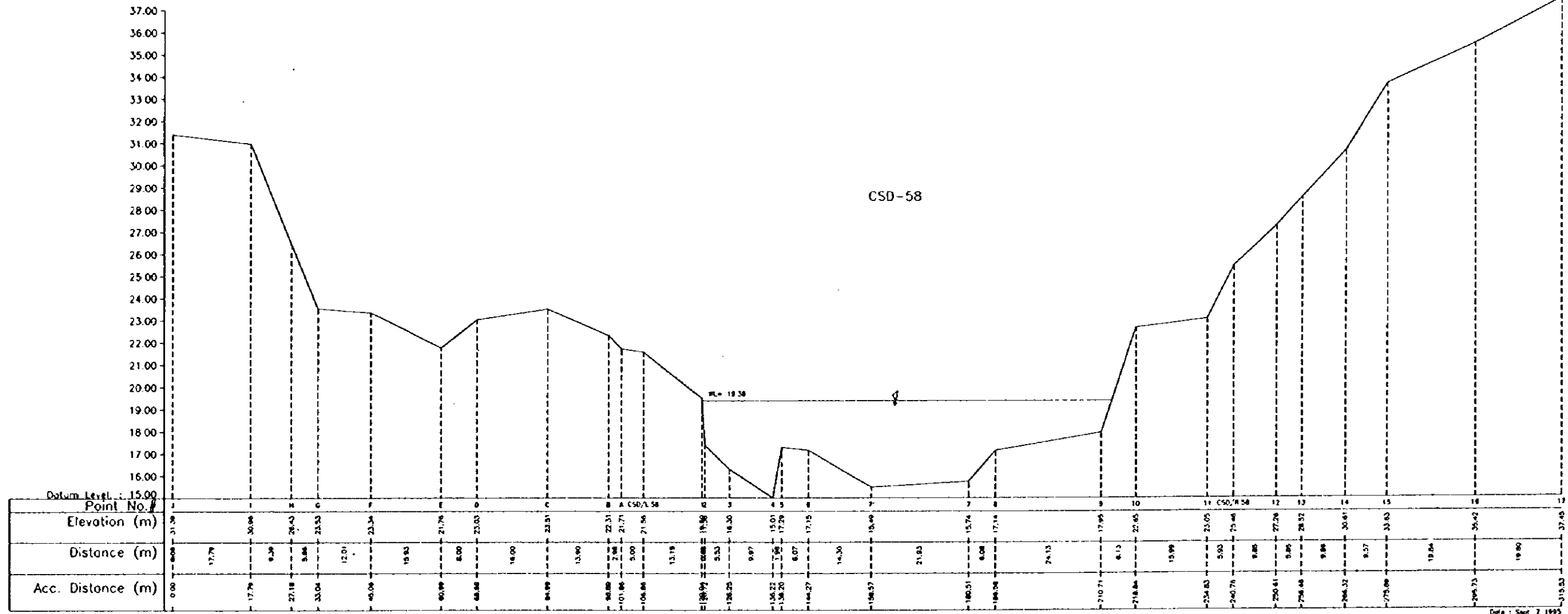
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No
None	None	Horizontal 1 : 500	28 of 56
Signature	Signature	Vertical 1 : 100	
Date	Date		

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



Date : Sep. 7 1995

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

( 30 METERS )  
 1 : 1000

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

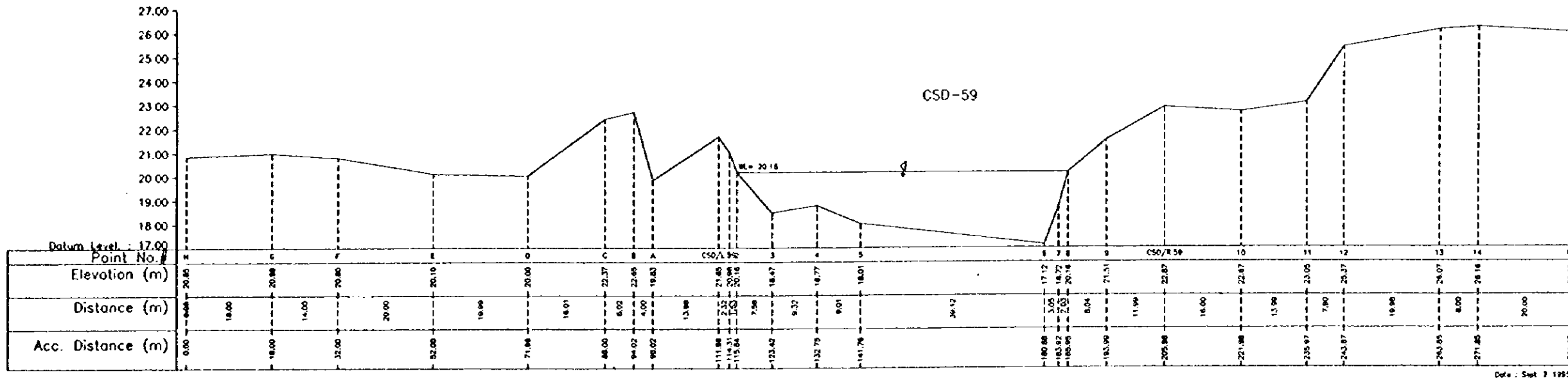
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

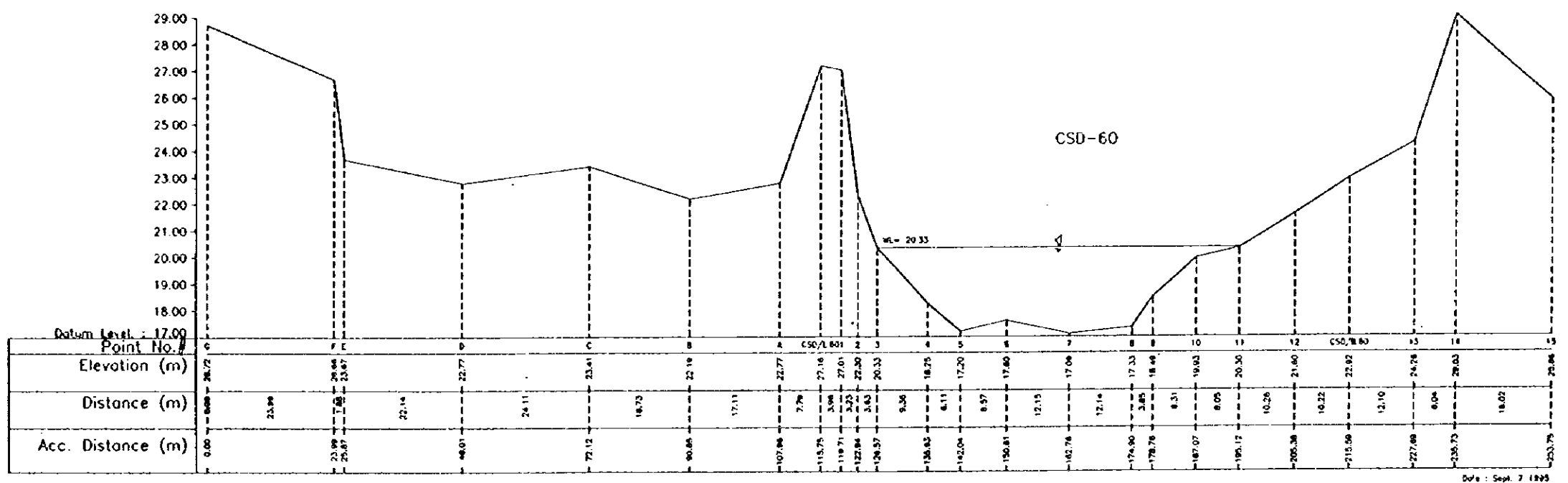
Checked by	Approved by	Scale	Sheet No
B. P. S. / R. P. S.	R. K. P. S.	Horizontal 1 : 500 Vertical 1 : 100	29 of 56

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





Date : Sept 7 1995



Date : Sept 7 1995

Reference Point :  
 The Elevation is referred to ITG 177 = 40134 meters  
 The correlation between other system are  
 ITG 177 ± 0 = NADP = 0.875 meters = PP ± 0.875 meter

( IN METERS )  
 1 : 500

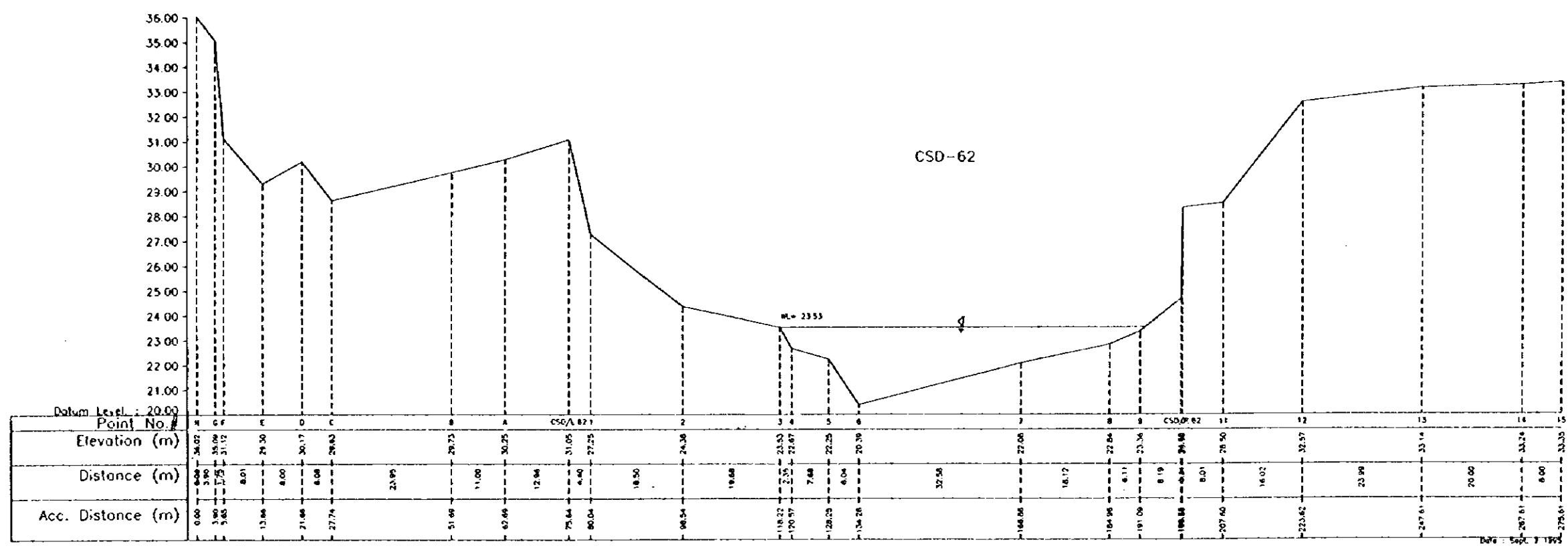
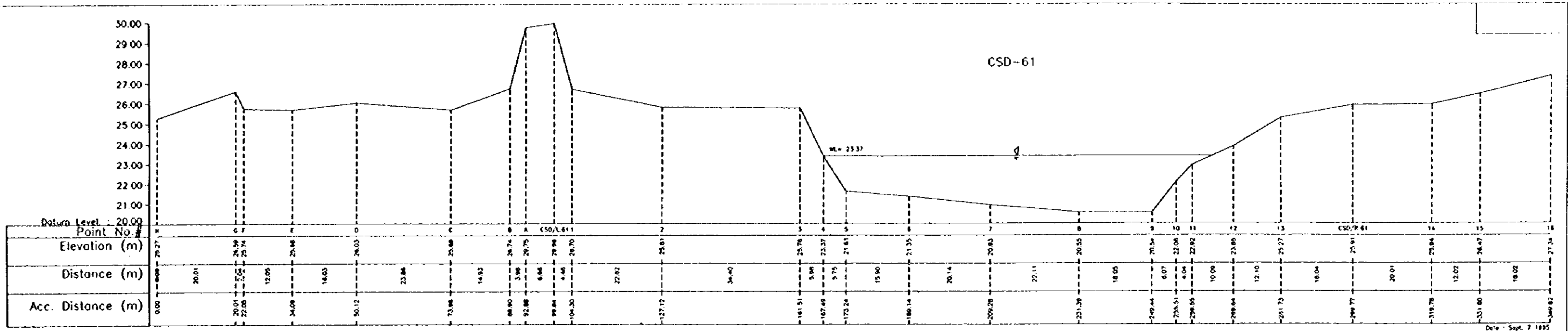
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by BAGIRO SOEDHARTO	Approved by S. SUDHARTO	Scale Horizontal 1 : 500 Vertical 1 : 100	Sheet No. 30 of 56
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**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WIRAWAN & 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

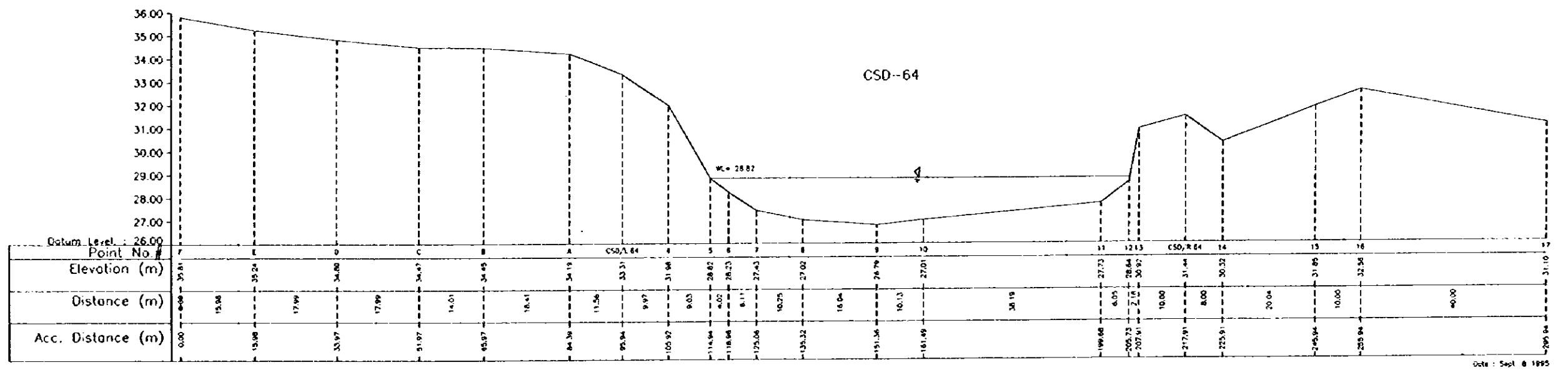
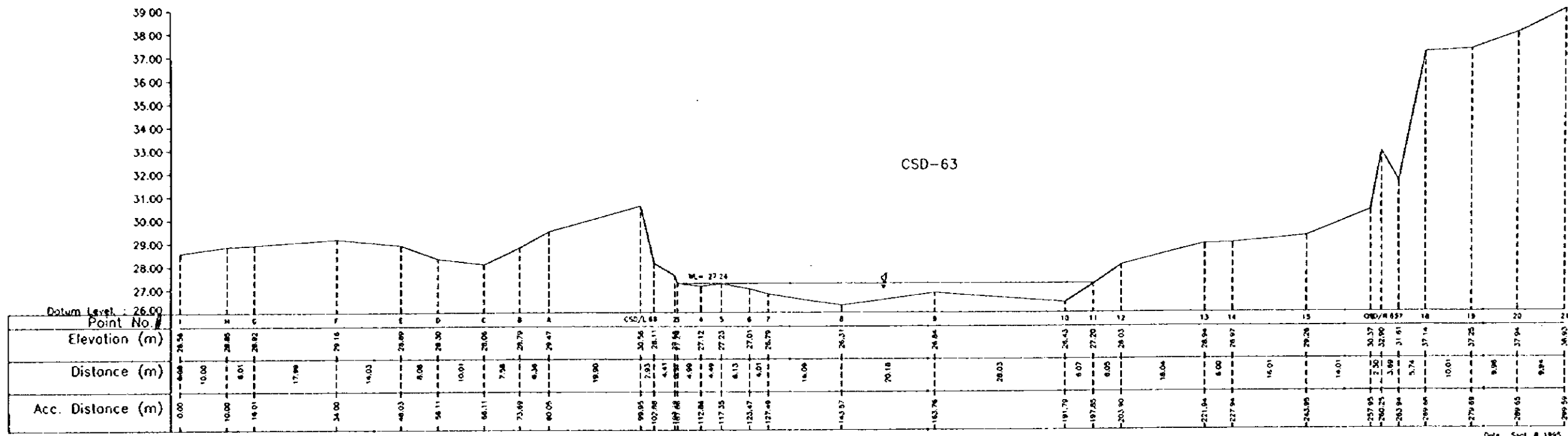
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CISADANE RIVER  
 Drawing Title : CROSS SECTION

Checked By : [Signature]	Approved By : [Signature]	Scale : Horizontal 1 : 500 Vertical 1 : 100	Sheet No. : 31 of 56
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JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 WATANABE & Associates JAKARTA - INDONESIA



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

( IN METERS )  
 1 : 500

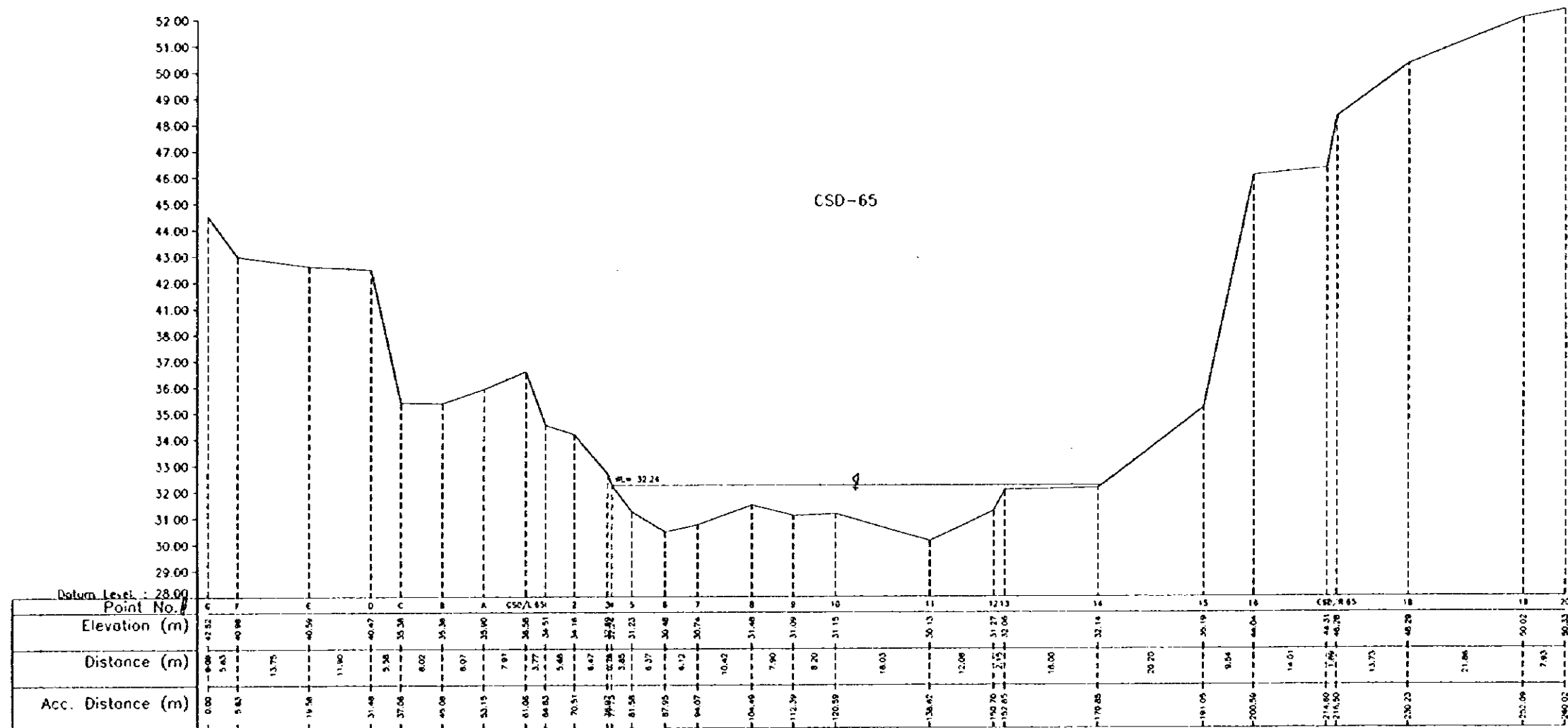
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Created by	Approved by	Scale	Sheet No.
Name : B. HENDI    SUCARNO    T. BAW    R. TOPANE		Horizontal 1 : 500	32 of 56
Date : 15. 11. 95		Vertical 1 : 100	

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



Date: Sept 8 1995

Reference Point:  
 The Elevation is referred to ITG 177 = 40.136 meters  
 The correlation between other system are  
 ITG 177 ± 0 = NAD - 92 5 meters = PP ± 1.25 meter

( IN METERS )  
 1:500

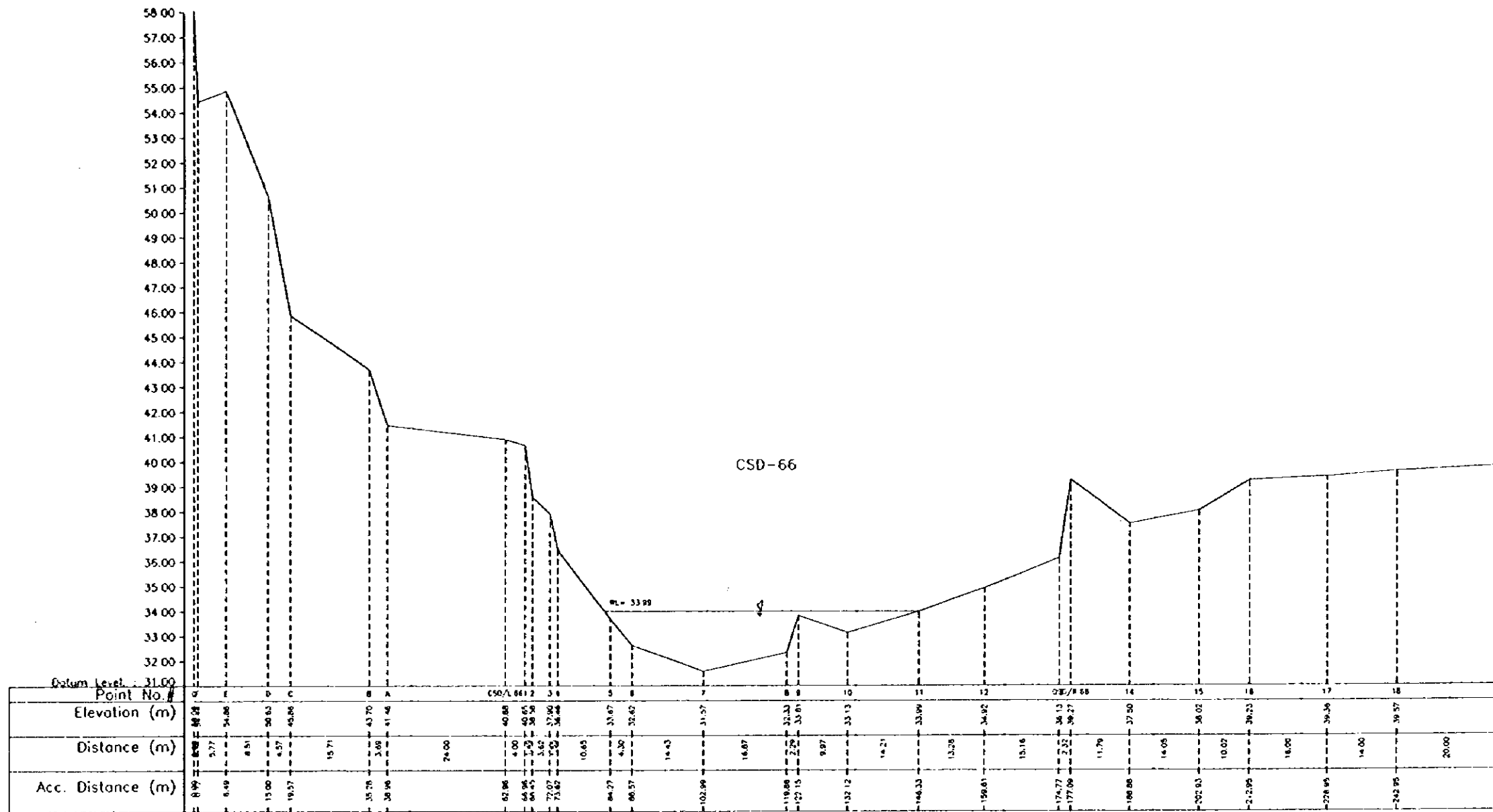
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked By	Approved By	Scale	Sheet No
NAME: B. W. S. / SOEKAMTO	NAME: T. N. / R. TOPANE	Horizontal 1 : 500	33 of 56
Signature: [Signatures]	Signature: [Signatures]	Vertical 1 : 100	
Date: 18.11.95	Date: 18.11.95		

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



Date: Sept 9 1995

Reference Point :  
 The Elevation is referred to TIG 177 = 43.136 meters  
 The correlation between other system are  
 TIG 177 ± 0 = S.W.P. = 0.975 meters = P.P. ± 0.000 meter

( IN METERS )  
 1 : 500

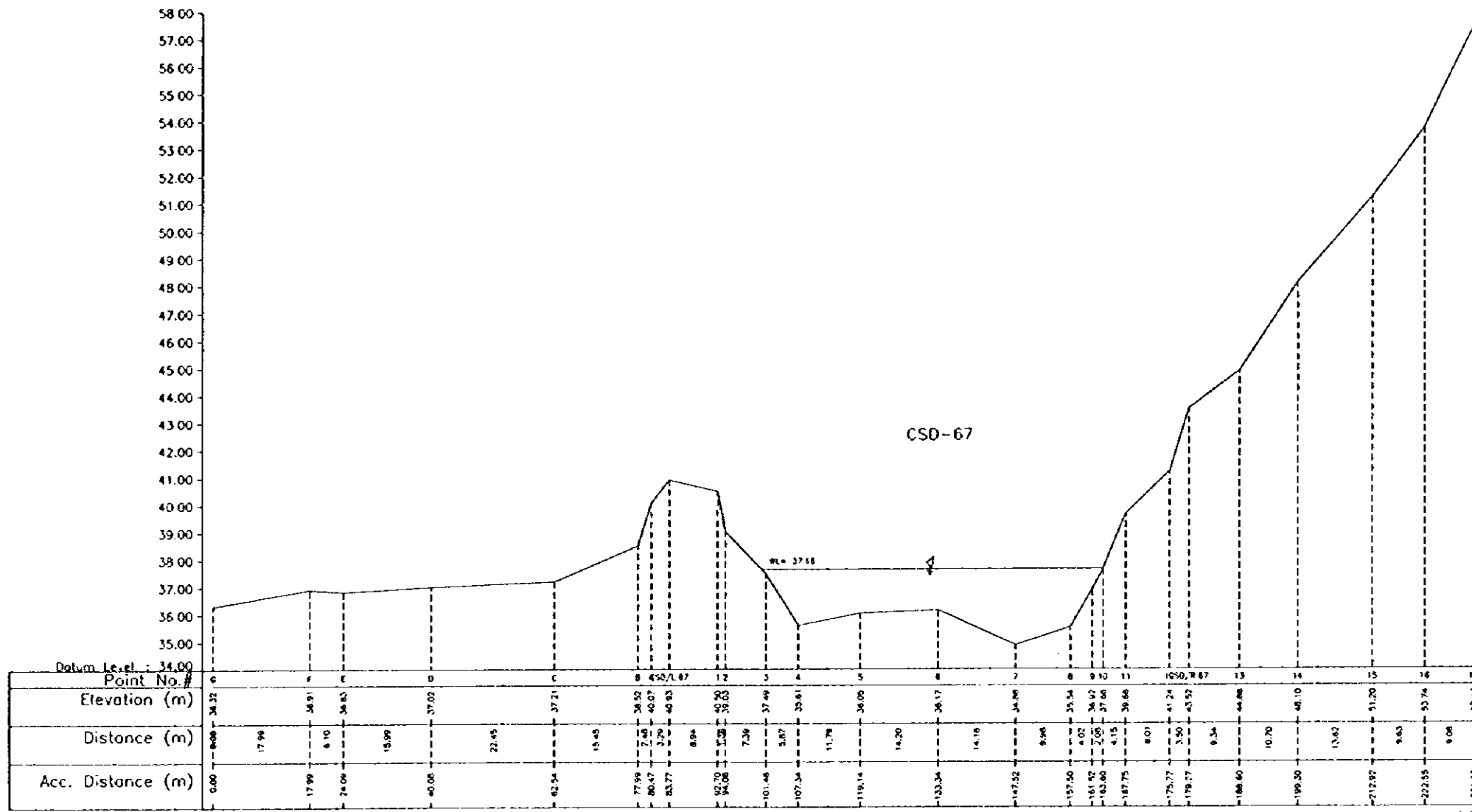
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

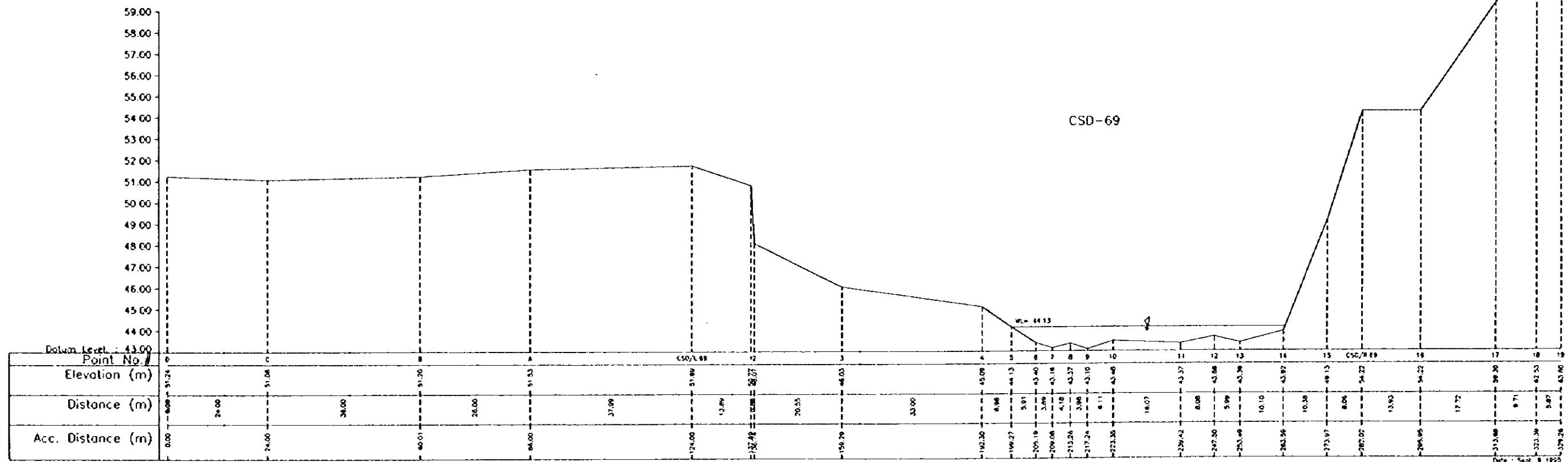
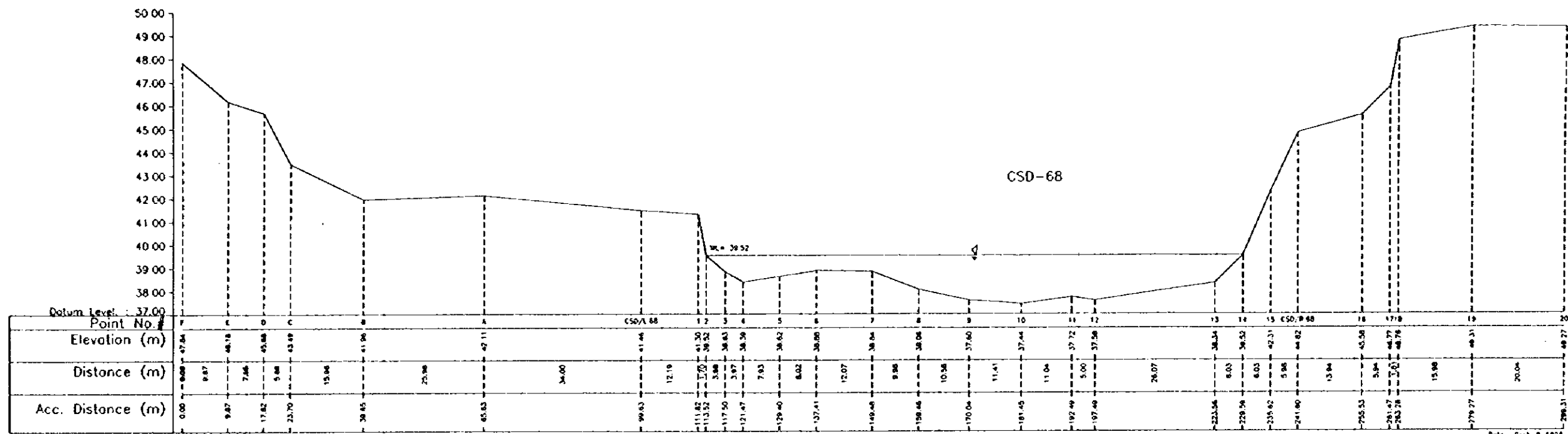
Checked by	Approved by	Scale	Sheet No.
BAYONO SOEDARTO	I. BAWI E. KURNIA	Horizontal 1 : 500 Vertical 1 : 100	34 of 56

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



Date : Sept. 8 1995

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 ± 1.00 meter		 ( IN METERS ) 1:500 1:100 1:500	
<b>MINISTRY OF PUBLIC WORKS</b> <b>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT</b> <b>CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT</b>			
<b>THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK</b>			
Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by Name: <i>Solidario</i> Signature: <i>[Signature]</i> Date: <i>15.11.95</i>		Approved by Name: <i>[Signature]</i> Signature: <i>[Signature]</i> Date: <i>16.11.95</i>	
Scale		Sheet No.	
Horizontal 1 : 500		35 of 56	
Vertical 1 : 100			
<b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY		<b>WHATMAN &amp; Associates</b> JAKARTA - INDONESIA	



Reference Point :  
 The Elevation is referred to TIG 177 = 43.156 meters  
 The correlation between other system are :  
 TIG 177 ± 0 = WSP - 0.975 meters = PP ± 0.1 meter

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

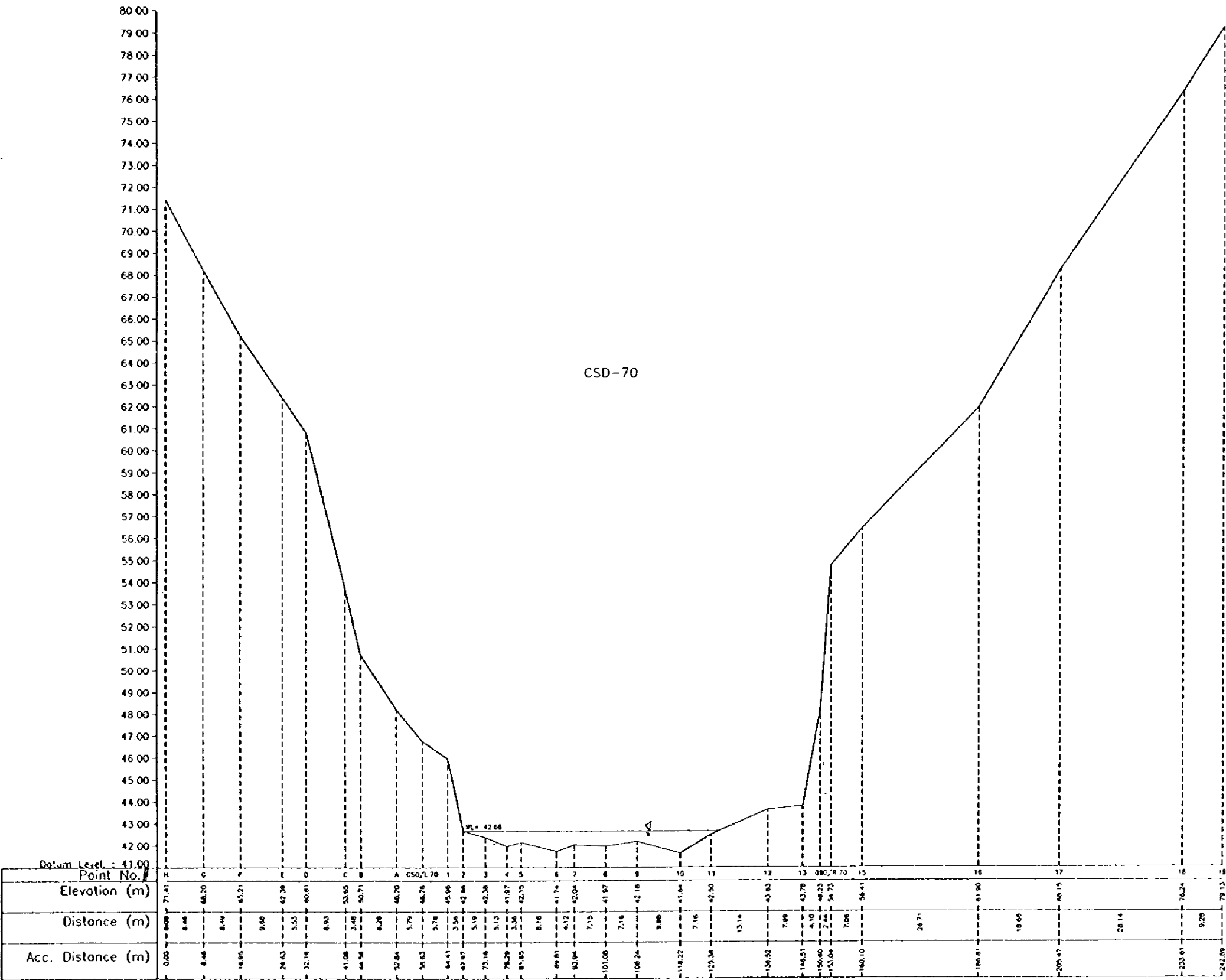
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No
Name: BRUNO SOCCARDO	Name: R. KURNIA	Horizontal 1 : 500	36 of 56
Signature: [Signature]	Signature: [Signature]	Vertical 1 : 100	
Date: 15.11.11	Date: 16.11.11		

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Date : Sept. 10 1995

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



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

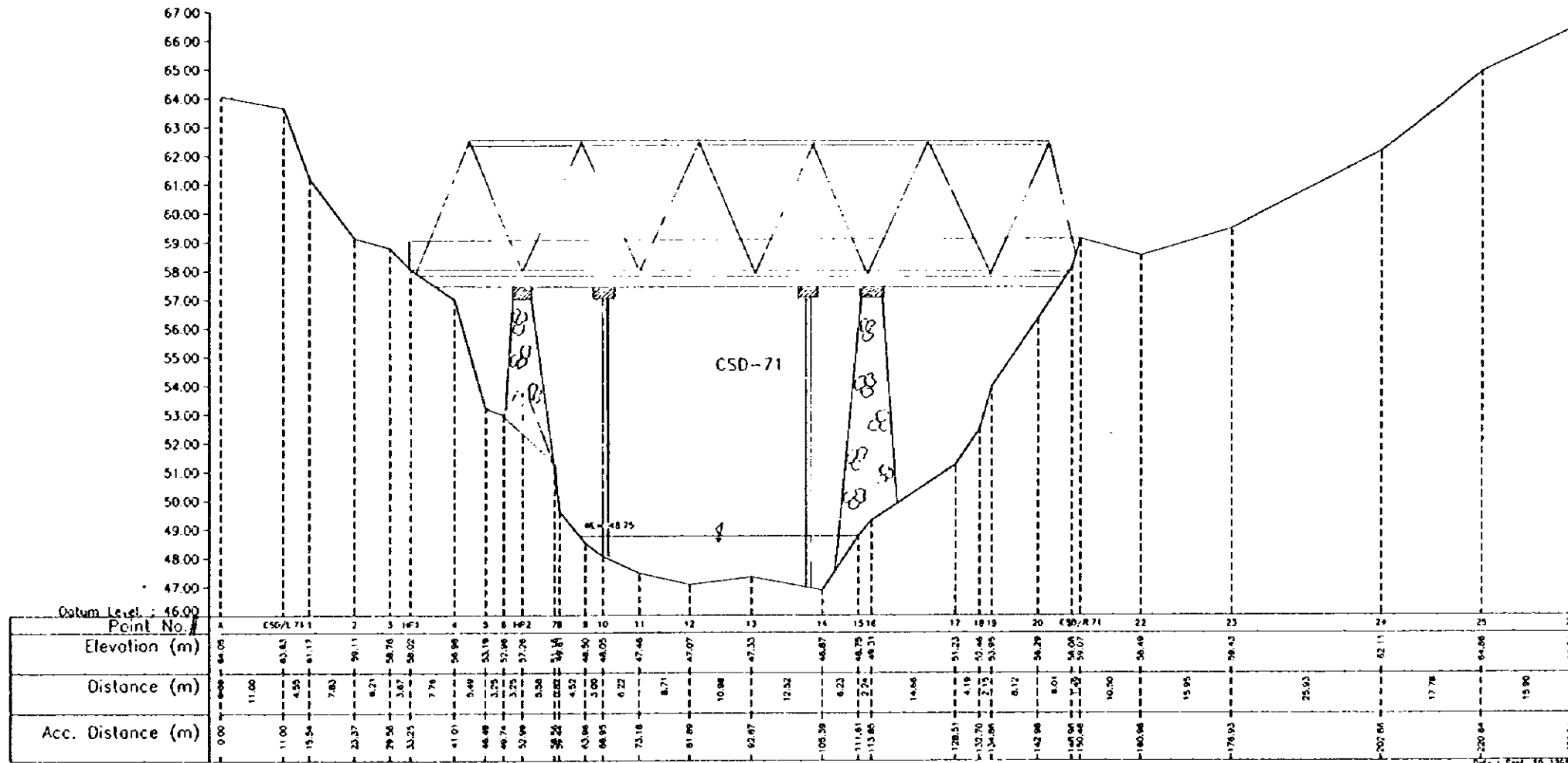
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked By	Approved By	Scale	Sheet No
Name : BIRMANO SOEDARTO	Name : R. TUBANE	Horizontal 1 : 500	37 of 56
Signature : [Signature]	Signature : [Signature]	Vertical 1 : 100	
Date : 14.11.95	Date : 16.11.95		

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

**WIRATMAN & Associates**  
 JAKARTA - INDONESIA





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

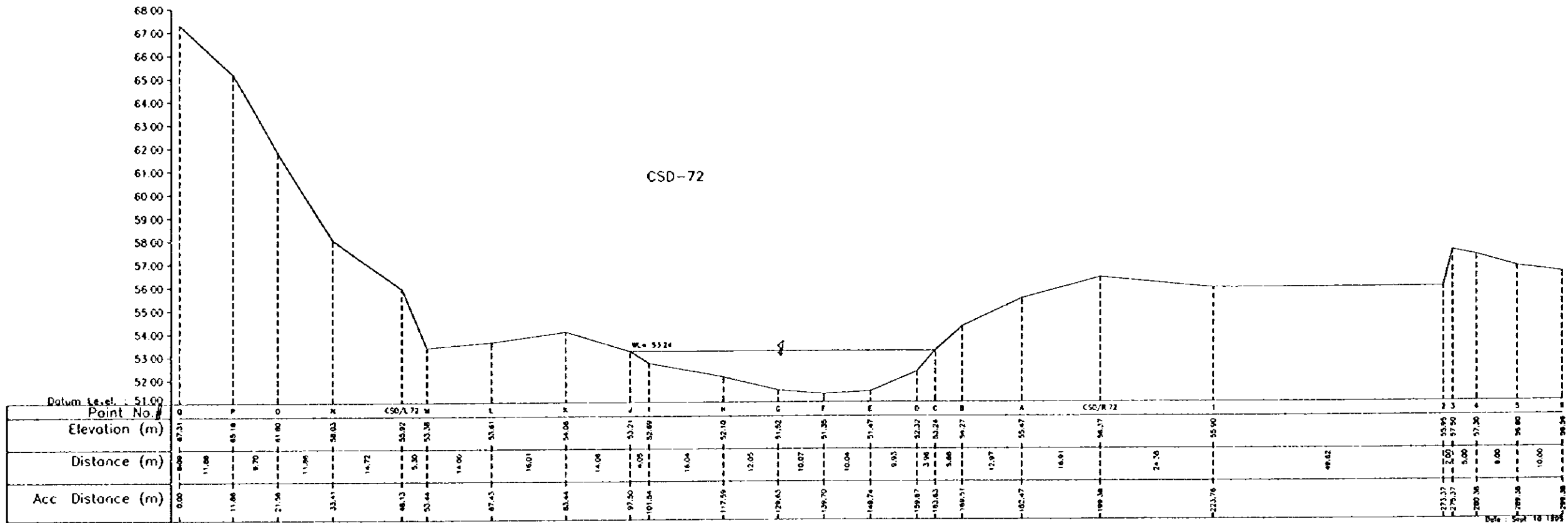
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CLIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CISADANE RIVER  
 Drawing Title : CROSS SECTION

Checked by : [Signature] Approved By : [Signature]  
 Scale : Horizontal 1 : 500, Vertical 1 : 100  
 Sheet No : 38 of 56

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 WIJATMAN & Associates  
 JAKARTA - INDONESIA



Reference Point :  
 The Elevation is referred to TIC 177 = 40.156 meters  
 The correlation between other system are :  
 TIC 177 ± 0 = RWP - 0.975 meters = PP + ..... meter

( IN METERS )  
 0 10 20  
 1:500

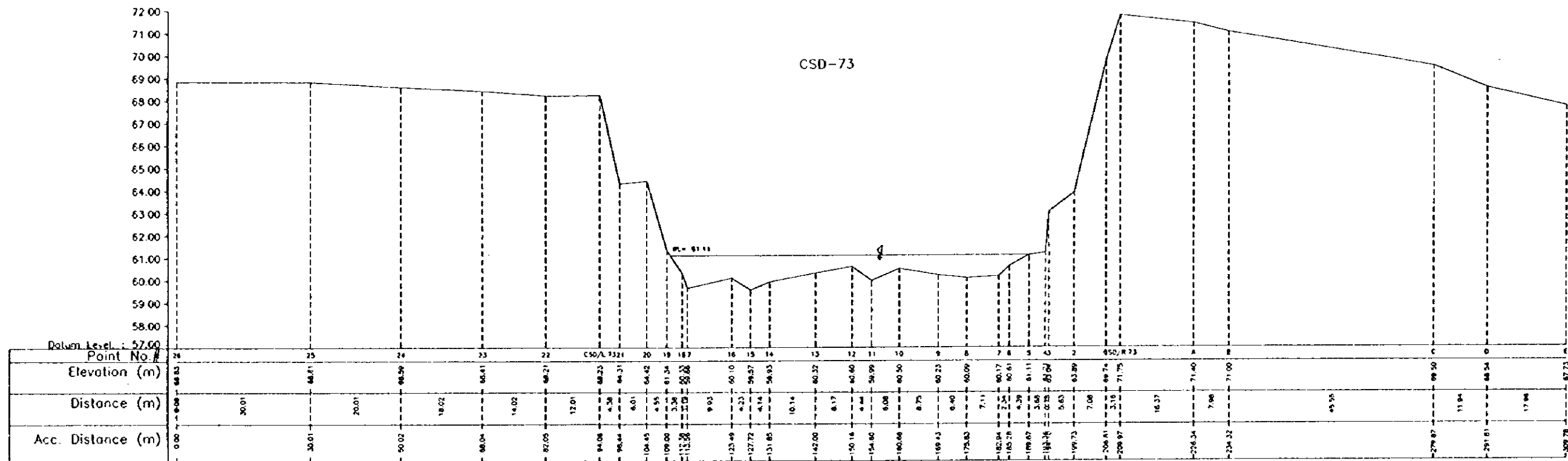
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN RI JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No
None	None	Horizontal 1 : 500	39 of 56
Signature	Signature	Vertical 1 : 100	
Date	Date		

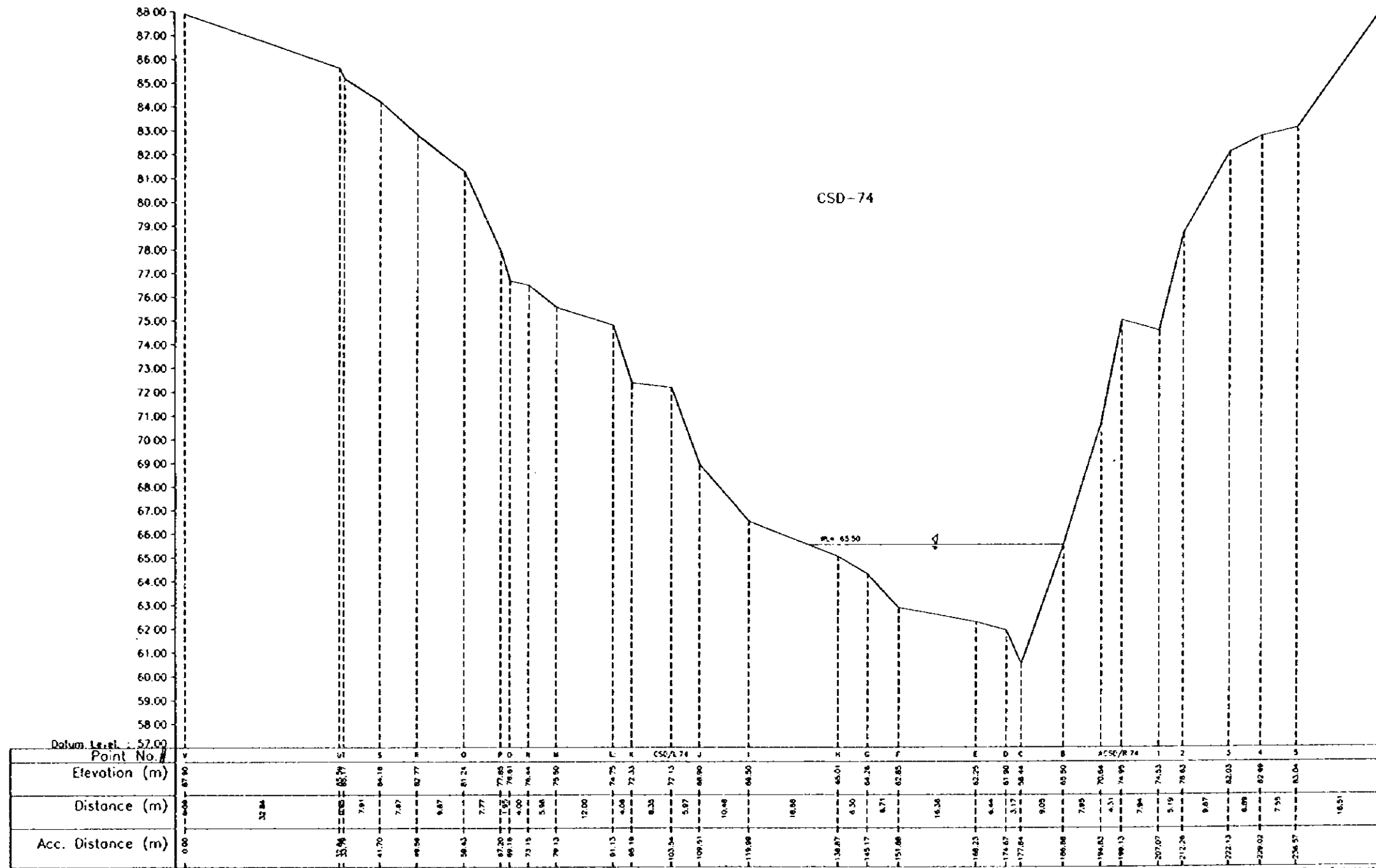
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY.      **WIJATMAN & Associates** JAKARTA - INDONESIA



Core : Sect 13 1965

Reference Point : The Elevation is referred to ITG 127 = 40.136 meters The correlation between other system are : ITG 127 ± 0 = HAP - 0.975 meters = PP ± ... meter		 Scale : 1 : 500 No. = 1/500	
<b>MINISTRY OF PUBLIC WORKS</b> <b>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT</b> <b>CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT</b>			
<b>THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK</b>			
Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by : S. H. H. S.	Approved by : K. H. H. S.	Scale : Horizontal 1 : 500 Vertical 1 : 100	Sheet No : 40 of 56
<b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY		<b>WIRATMAN &amp; Associates</b> JAKARTA - INDONESIA	

CSD-74



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 = PP ± ... meter

( IN METERS )  
 1 : 500

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

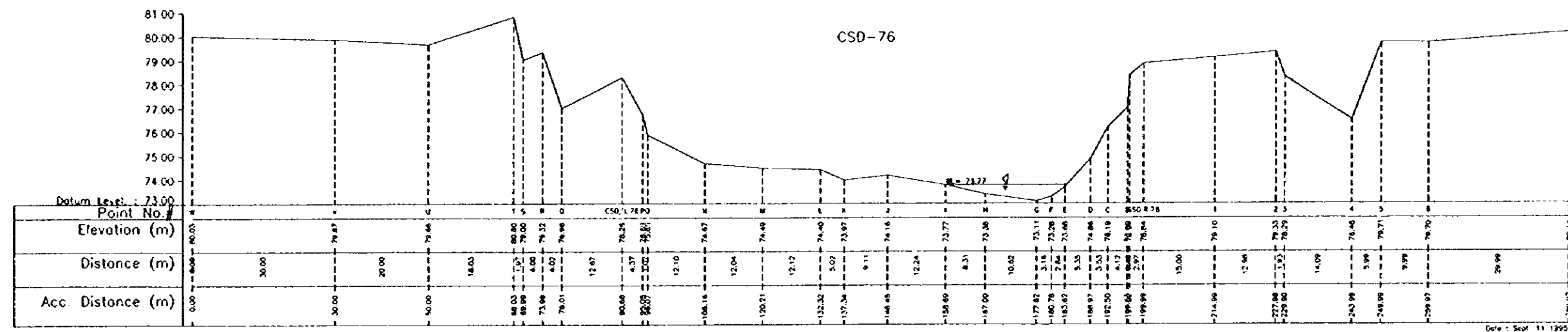
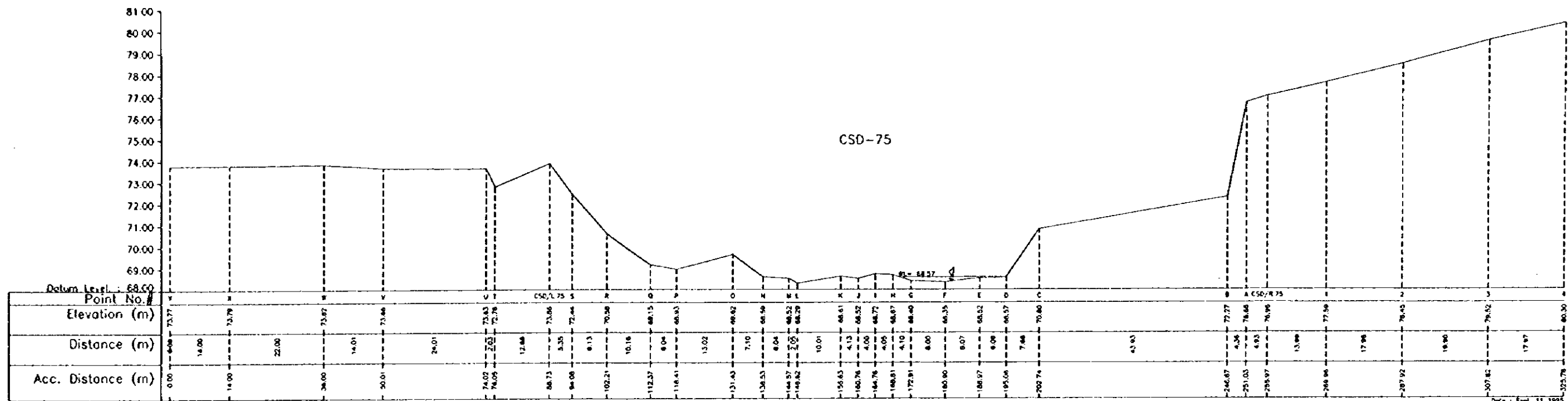
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked By	Approved By	Scale	Sheet No
BRUNO SUDARNO	T. MAN	Horizontal 1 : 500	41 of 56
Signature	Signature	Vertical 1 : 100	
Date : 15.11.95	Date : 15.11.95		

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

Date : Sept 11 1995



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

( IN METERS )  
 1 : 500  
 1 : 100

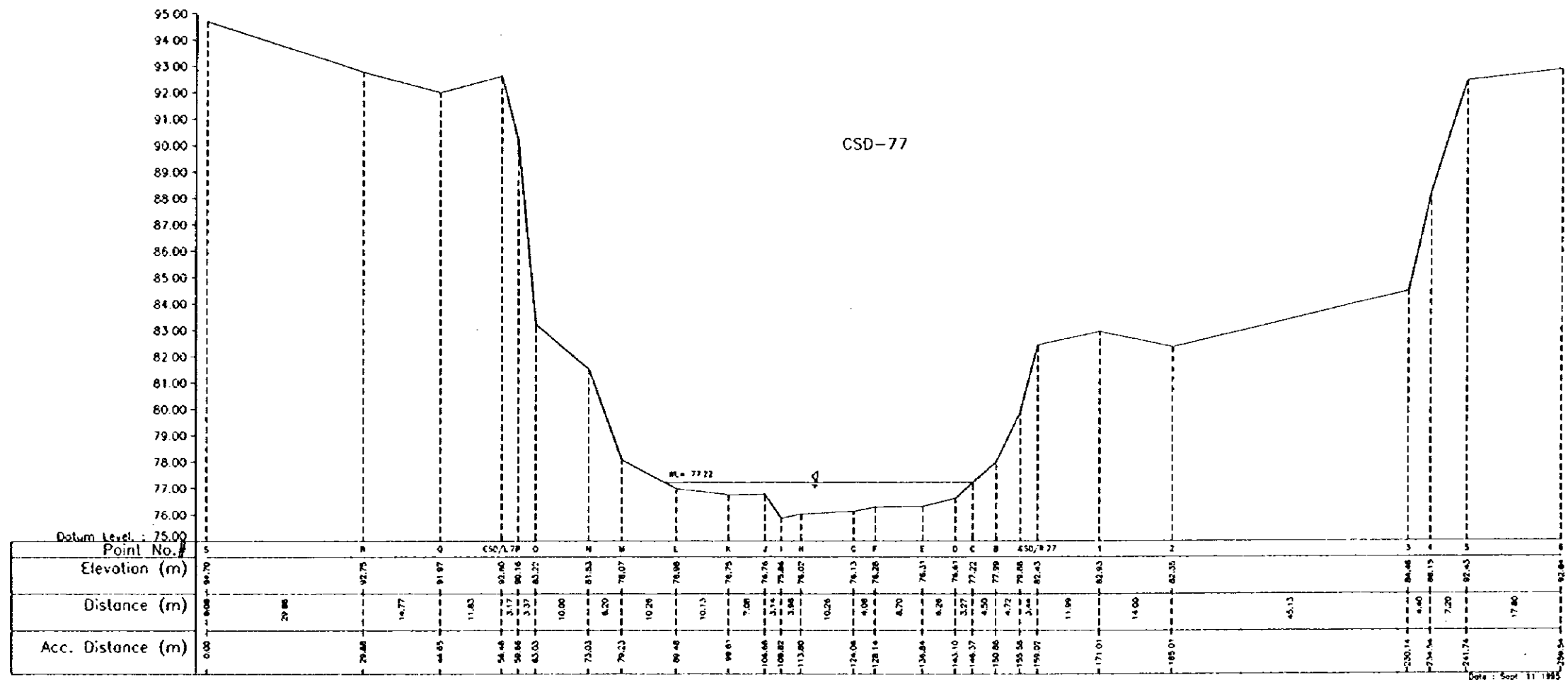
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CISADANE RIVER  
 Drawing Title : CROSS SECTION

Checked by	Approved by	Scale	Sheet No
MANO	T. MAN	Horizontal 1 : 500	42 of 56
Signature	Signature	Vertical 1 : 100	
Date	Date		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
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 JAKARTA - INDONESIA



Reference Point:  
 The Elevation is referred to TIC 127 = 40.136 meters  
 The correlation between other system are:  
 TIC 127 ± 0 = ANP = 0.975 meters = PP ± ... meter

( IN METERS )  
 1 : 500

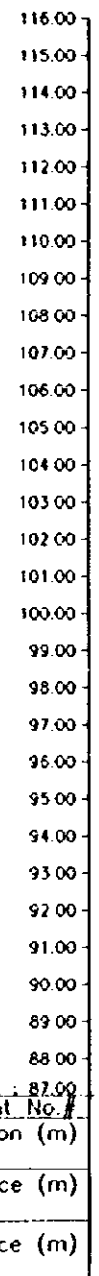
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

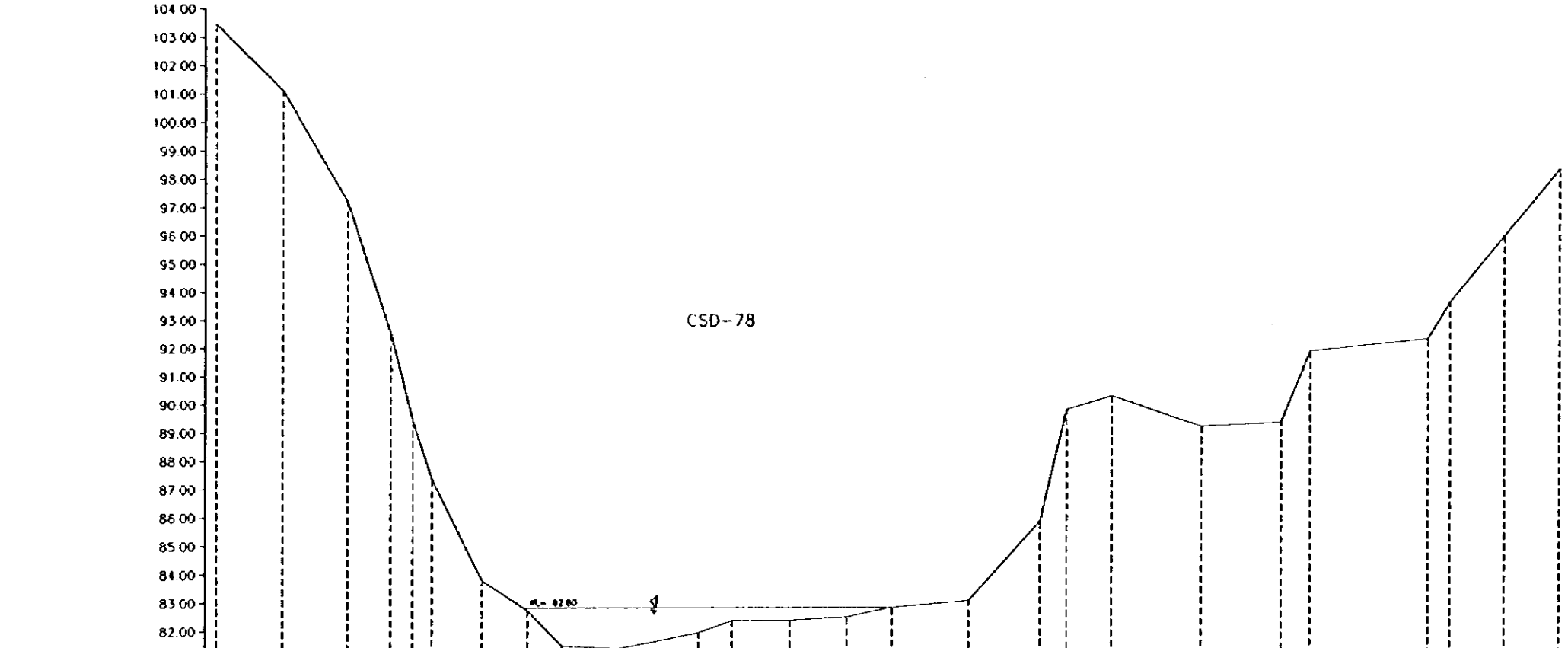
Name of River : **CISADANE RIVER**      Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No.
W. SUDHONO	S. SOEGARTO	Horizontal 1 : 500	43 of 56
Signature		Vertical 1 : 100	
Date			

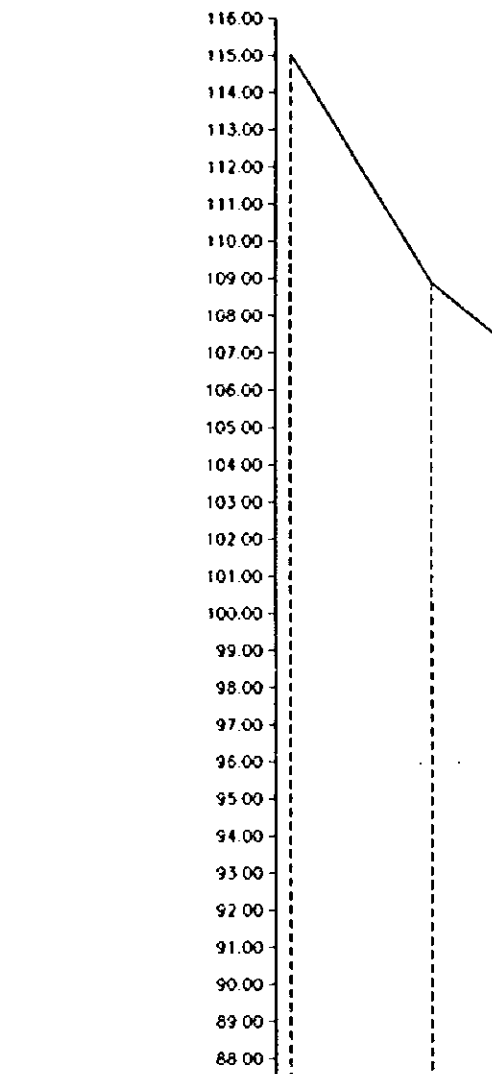
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WIRATMAN & Associates**  
 JAKARTA - INDONESIA



Point No.	Elevation (m)	Distance (m)	Acc. Distance (m)
0	103.47	0.00	0.00
1	101.10	11.46	11.46
2	97.15	23.18	23.18
3	92.49	30.90	30.90
4	89.35	34.86	34.86
5	87.25	38.28	38.28
6	83.78	47.29	47.29
7	82.70	55.44	55.44
8	81.44	61.81	61.81
9	81.35	71.81	71.81
10	81.13	85.75	85.75
11	82.38	91.73	91.73
12	82.25	102.82	102.82
13	82.47	112.21	112.21
14	82.90	120.19	120.19
15	83.03	133.83	133.83
16	85.82	146.30	146.30
17	89.78	150.92	150.92
18	90.22	158.85	158.85
19	89.14	174.74	174.74
20	89.27	188.81	188.81
21	91.80	193.80	193.80
22	92.23	211.80	211.80
23	93.53	218.48	218.48
24	95.87	228.47	228.47
25	98.24	238.10	238.10



Point No.	Elevation (m)	Distance (m)	Acc. Distance (m)
0	115.00	0.00	0.00
1	108.87	19.17	19.17
2	98.97	34.90	34.90
3	96.92	42.02	42.02
4	96.92	50.92	50.92
5	96.95	58.04	58.04
6	96.04	64.33	64.33
7	94.83	70.62	70.62
8	92.25	77.74	77.74
9	91.80	84.86	84.86
10	88.87	91.98	91.98
11	86.87	102.00	102.00
12	86.71	112.32	112.32
13	86.16	118.71	118.71
14	87.52	121.08	121.08
15	87.79	129.25	129.25
16	87.13	133.43	133.43
17	87.99	138.63	138.63
18	87.82	144.22	144.22
19	87.24	150.28	150.28
20	87.31	166.03	166.03
21	95.40	174.13	174.13
22	98.15	178.58	178.58
23	101.03	183.30	183.30
24	101.04	188.28	188.28
25	102.25	191.13	191.13
26	107.89	193.80	193.80
27	106.95	201.77	201.77
28	107.87	210.91	210.91



CSD-79

CSD-78

Date : Sept 12 1995

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

( IN METERS )  
 Scale: 1:500

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

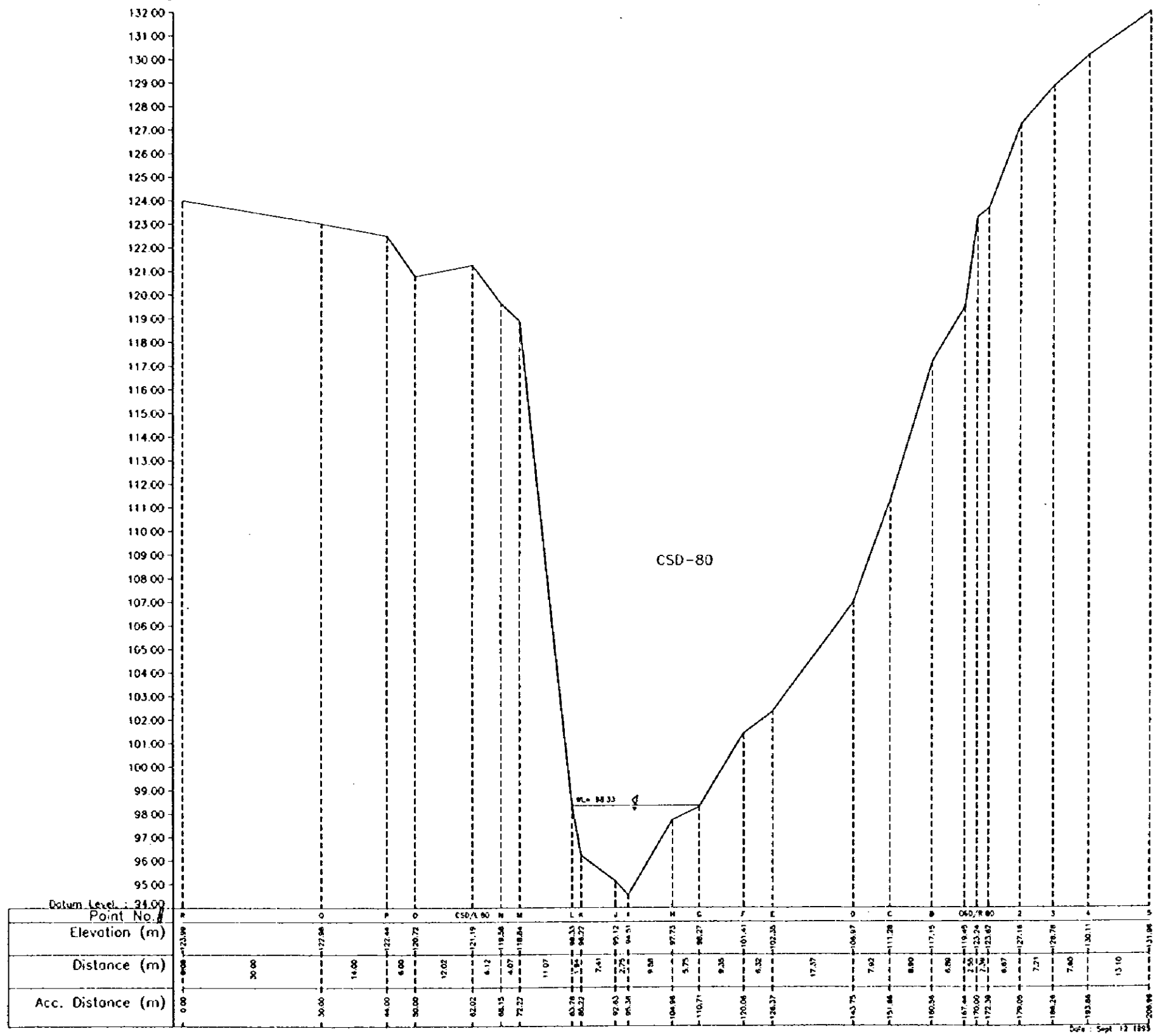
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CISADANE RIVER  
 Drawing Title : CROSS SECTION

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

Scale: Horizontal 1 : 500, Vertical 1 : 100  
 Sheet No. 44 of 56

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 - 0.875 meters - PP ± . . . meter

( IN METERS )  
 Scale: 1:500

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

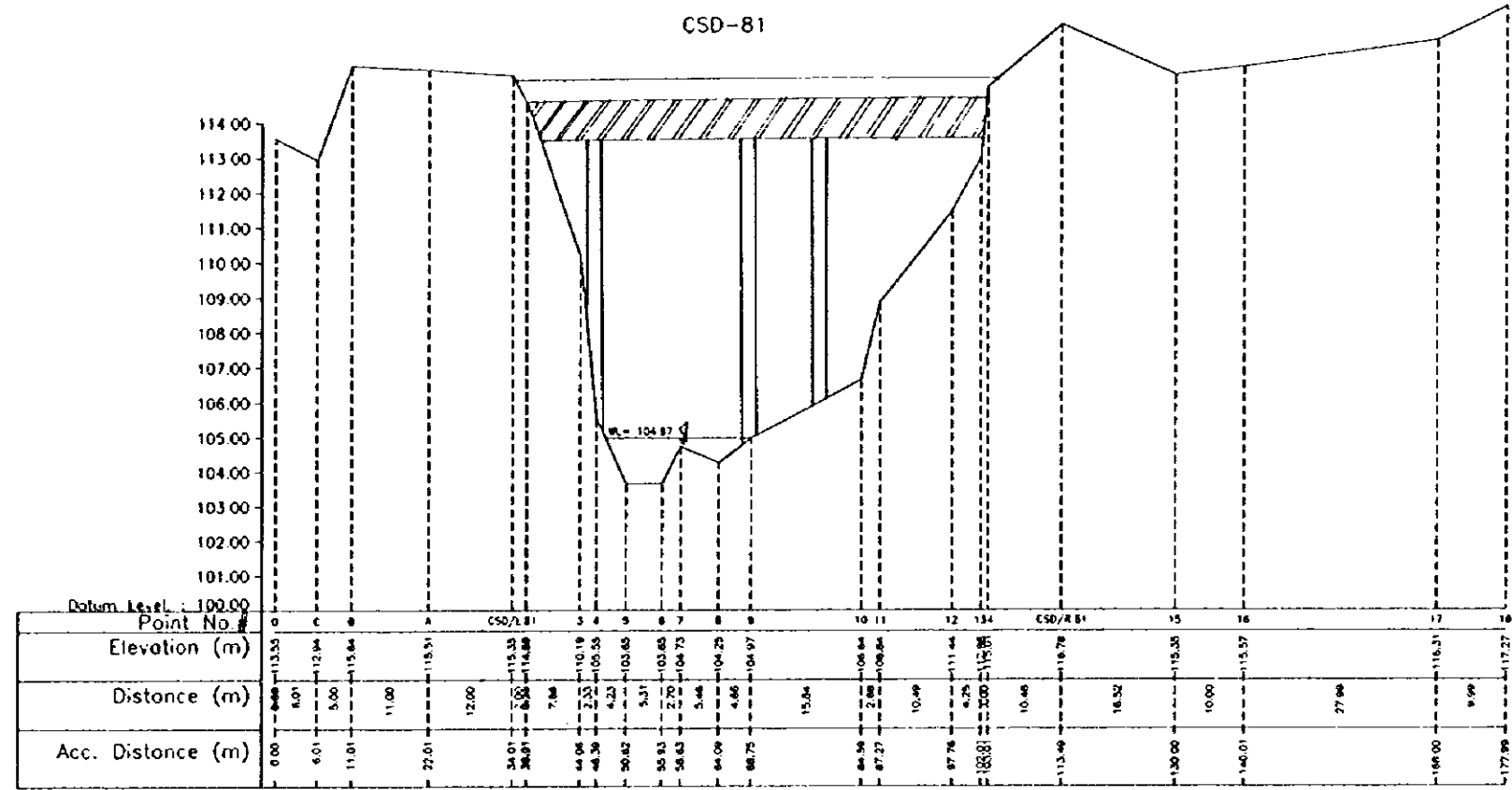
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by BIRONO SOEDARTO	Approved by T. ANA P. TORRAME	Scale Horizontal 1 : 500 Vertical 1 : 100	Sheet No. 45 of 56
Date : 13.11.95 / 11.11.95 / 16.11.95		<b>WIRATMAN &amp; Associates</b> JAKARTA - INDONESIA	

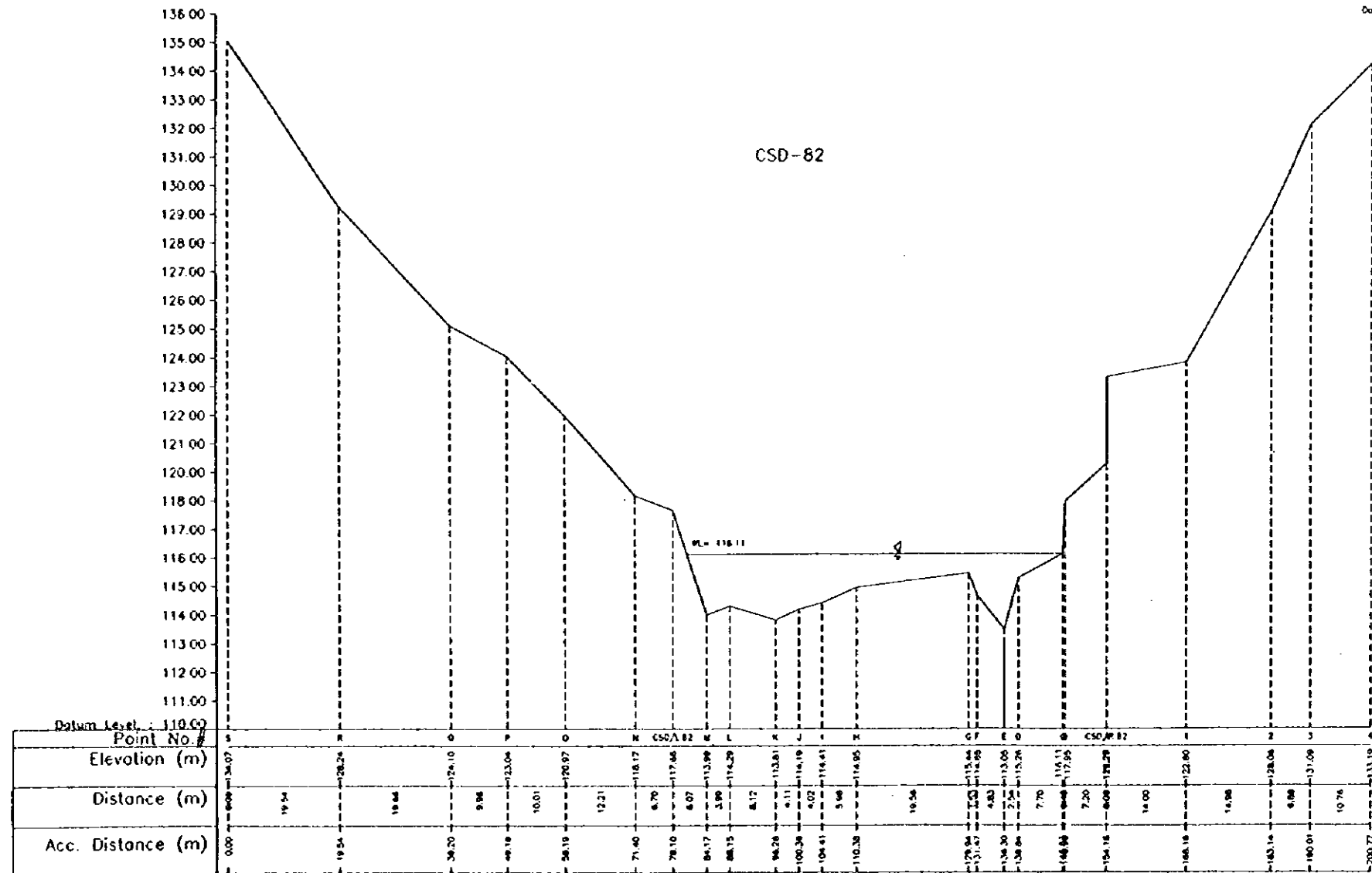
**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY

Date: Sept 12 1995





Date : Sep 12 1995



Date : Sep 13 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 ± 0.10 meter

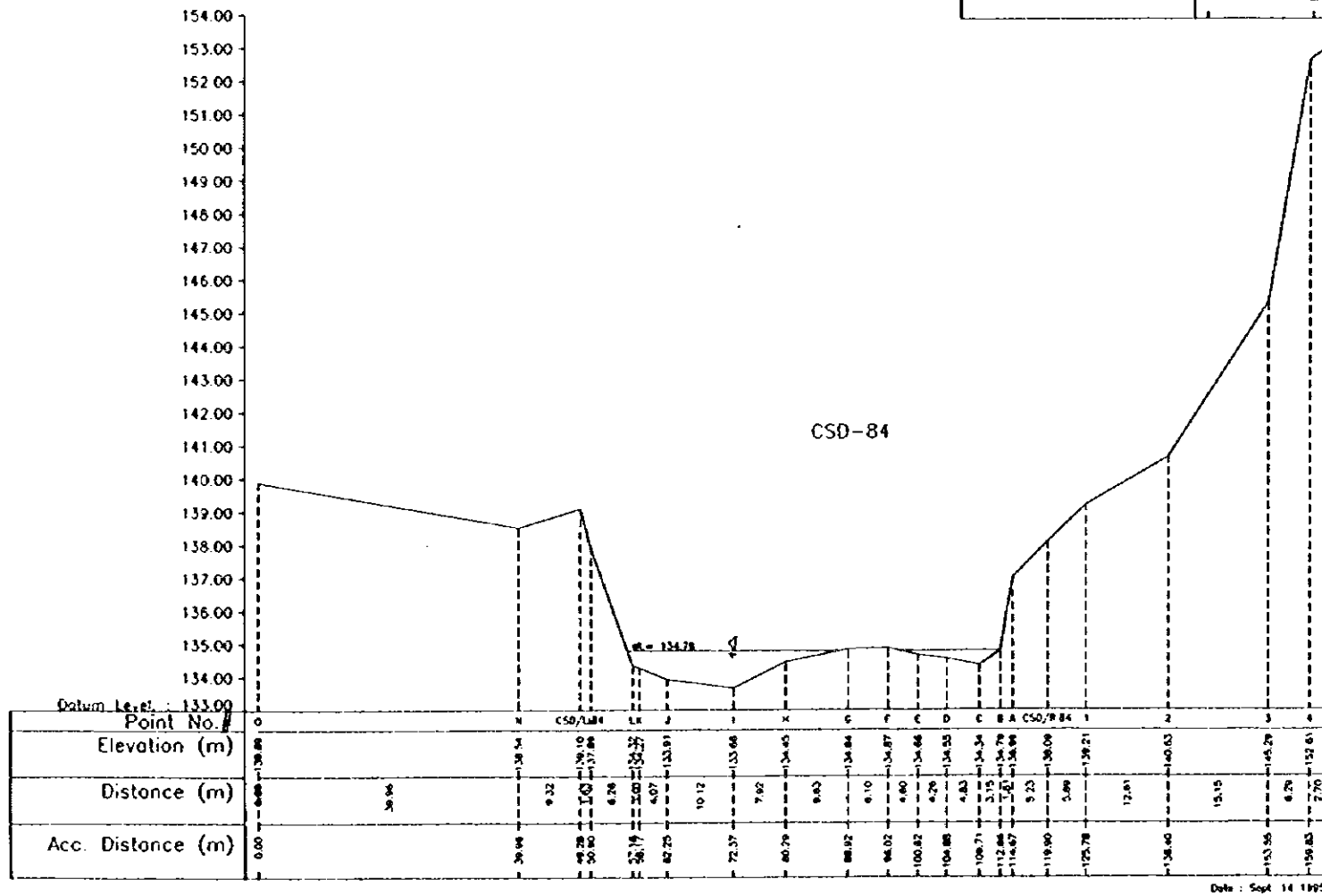
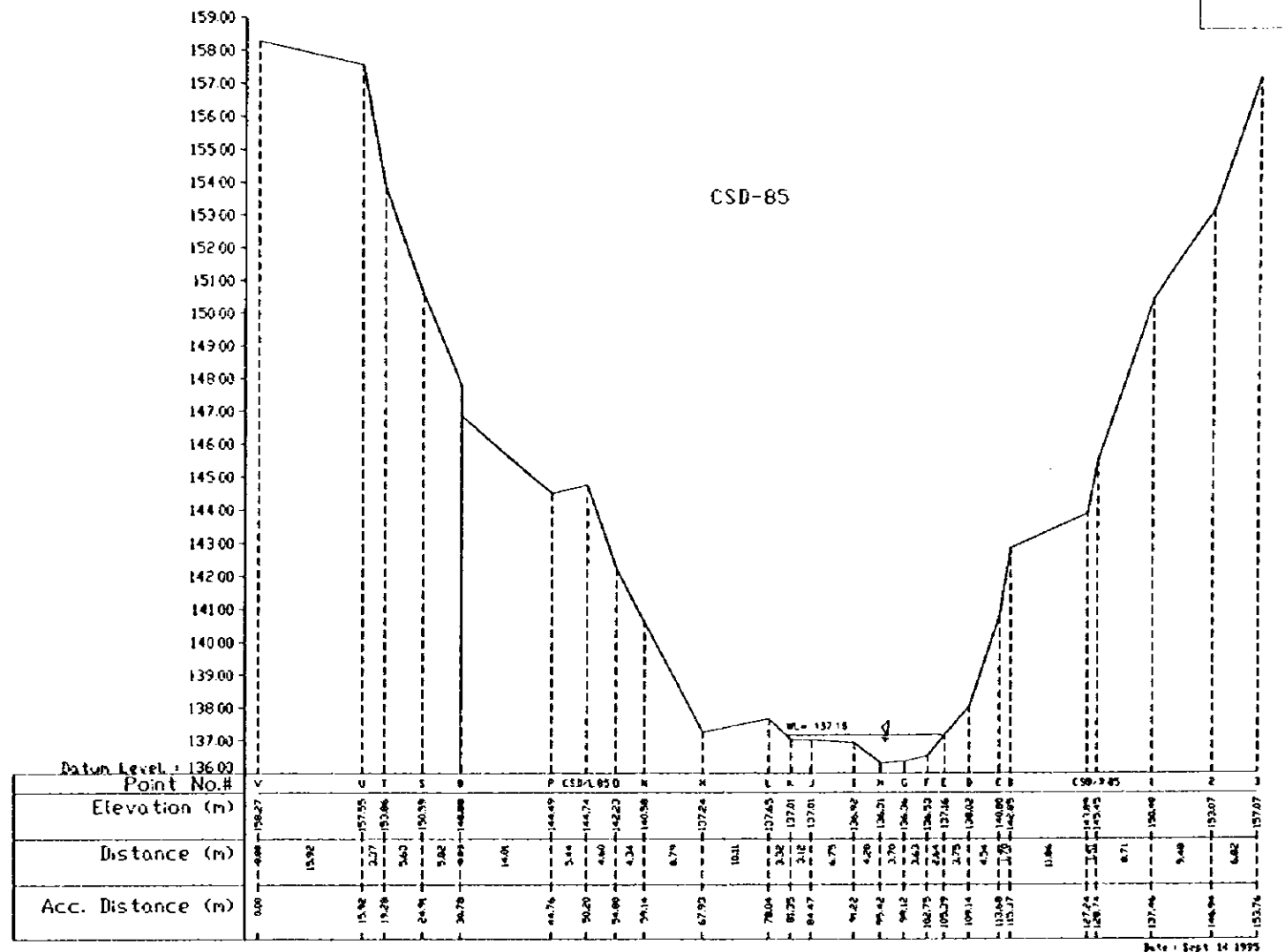
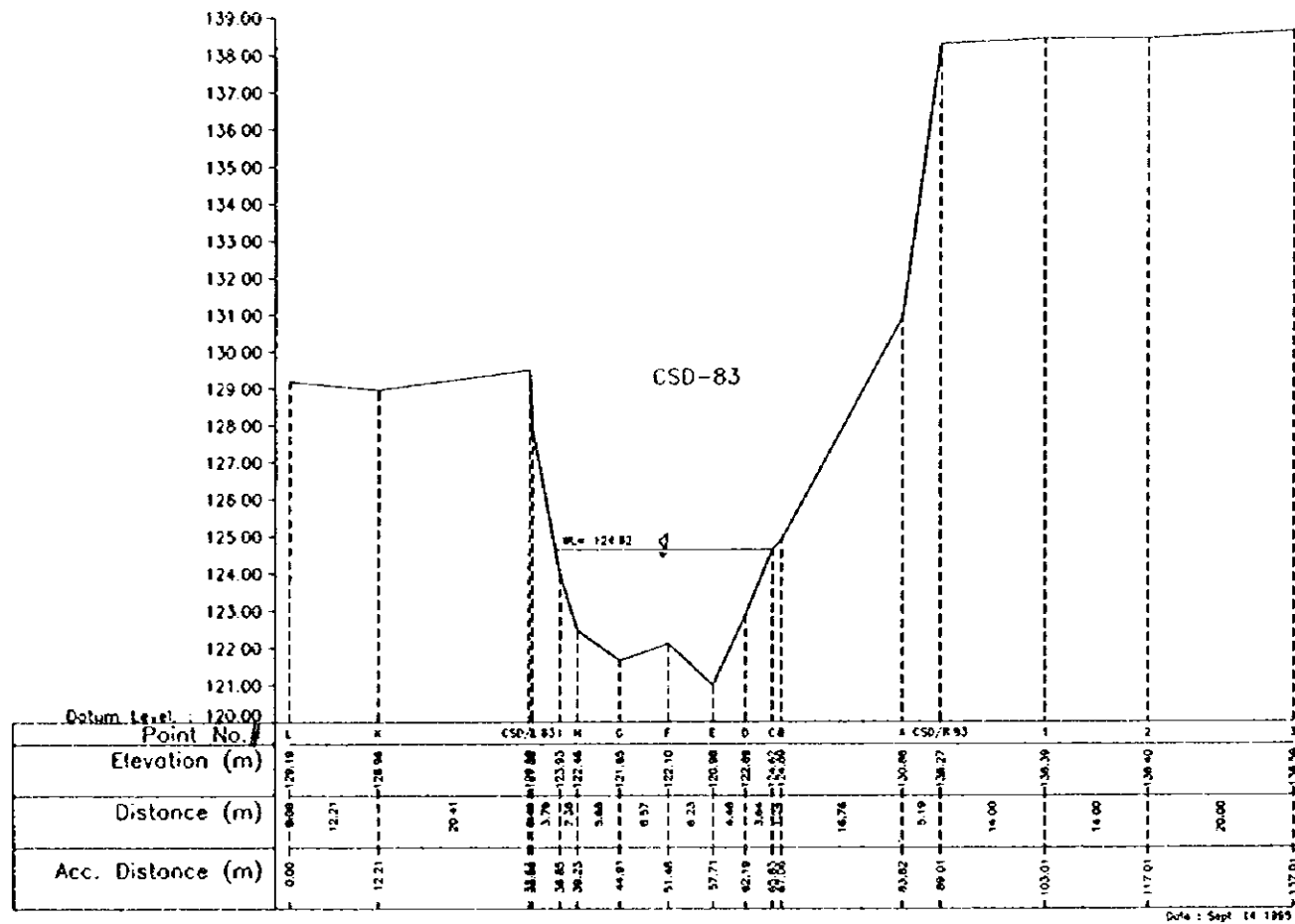
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTABEK

Name of River : CISADANE RIVER  
 Drawing Title : CROSS SECTION

Checked by : SOEDARTO  
 Approved by : R. TOPIANE  
 Scale : Horizontal 1 : 500, Vertical 1 : 100  
 Sheet No : 46 of 56

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

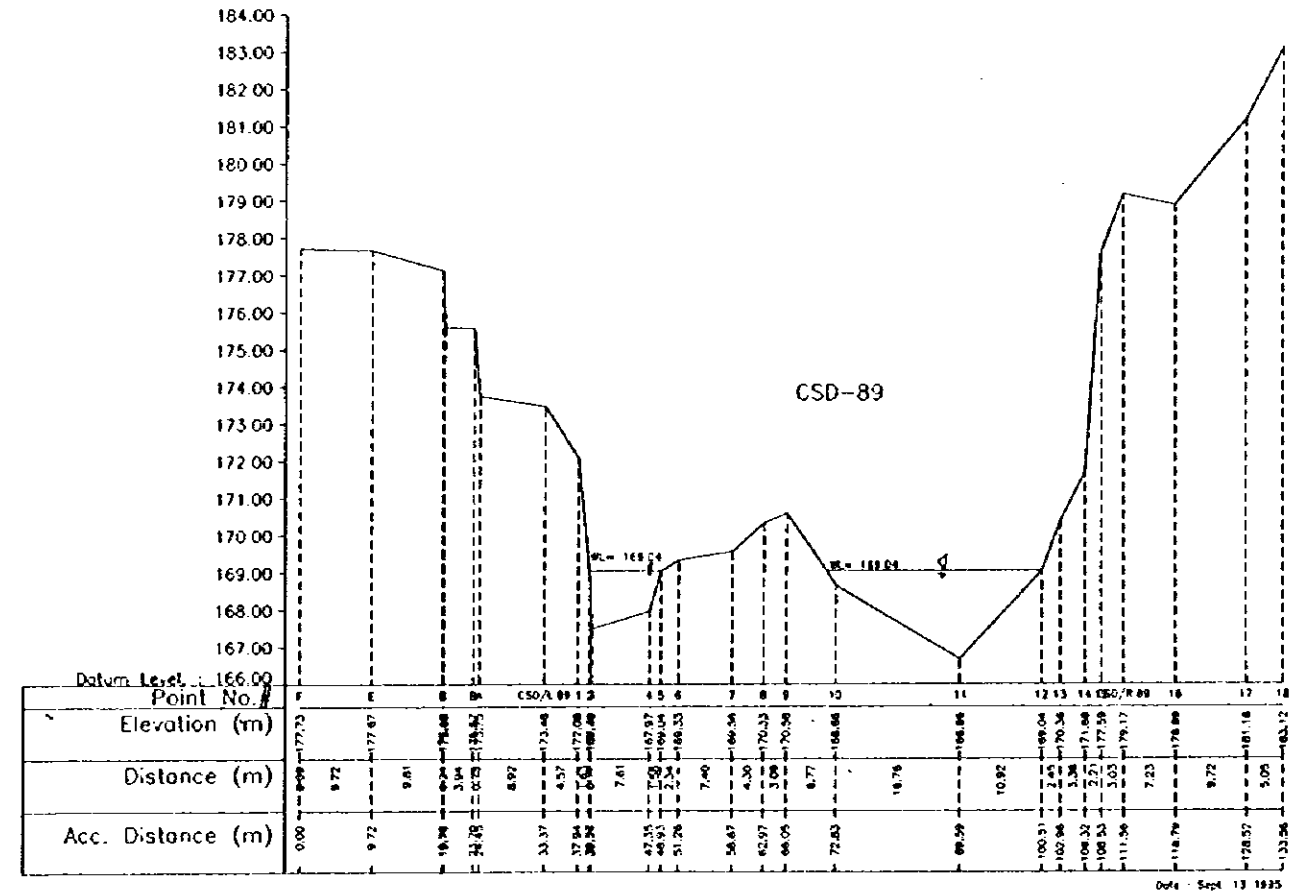
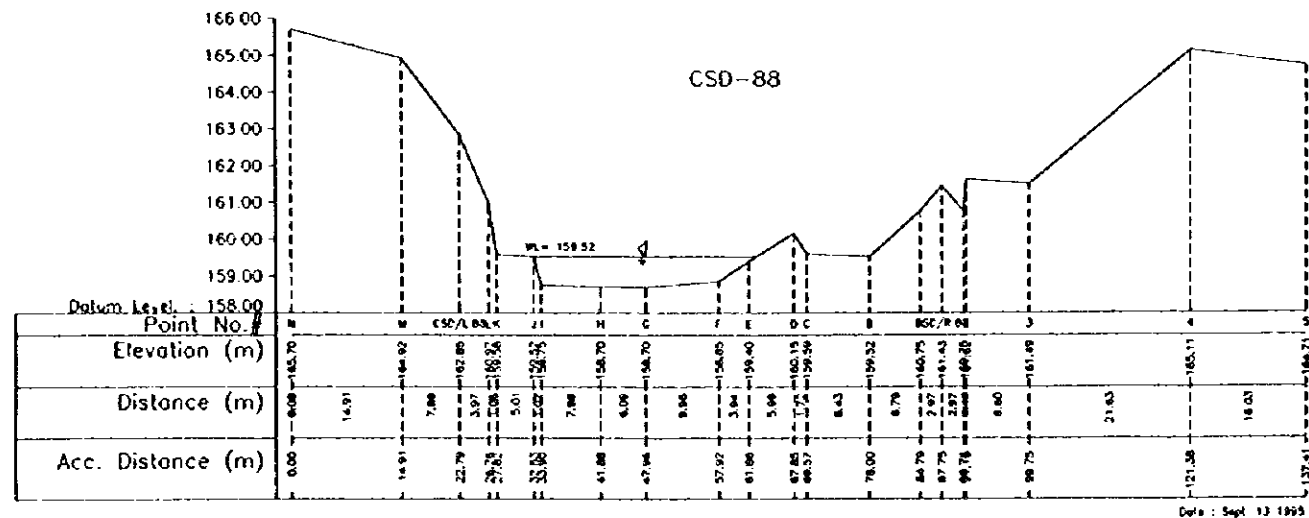
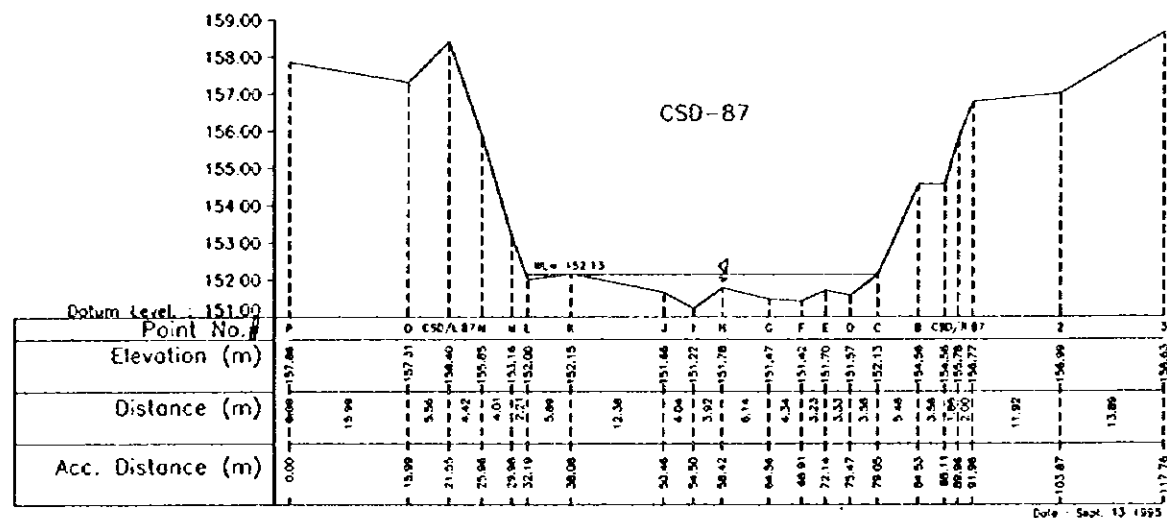
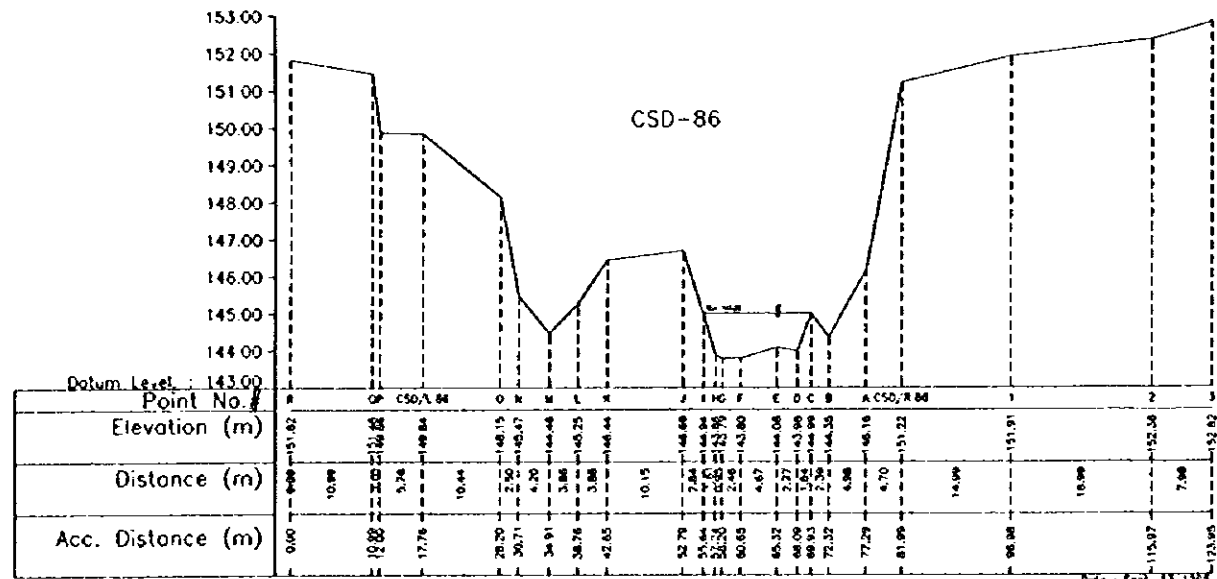
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by : <i>[Signature]</i>	Approved by : <i>[Signature]</i>	Scale : Horizontal 1 : 500	Sheet No : 47 of 56
Date : 13.11.95	Date : 14.11.95	Vertical 1 : 100	

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY      **WABATMAN & 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 ± 0.5 meter

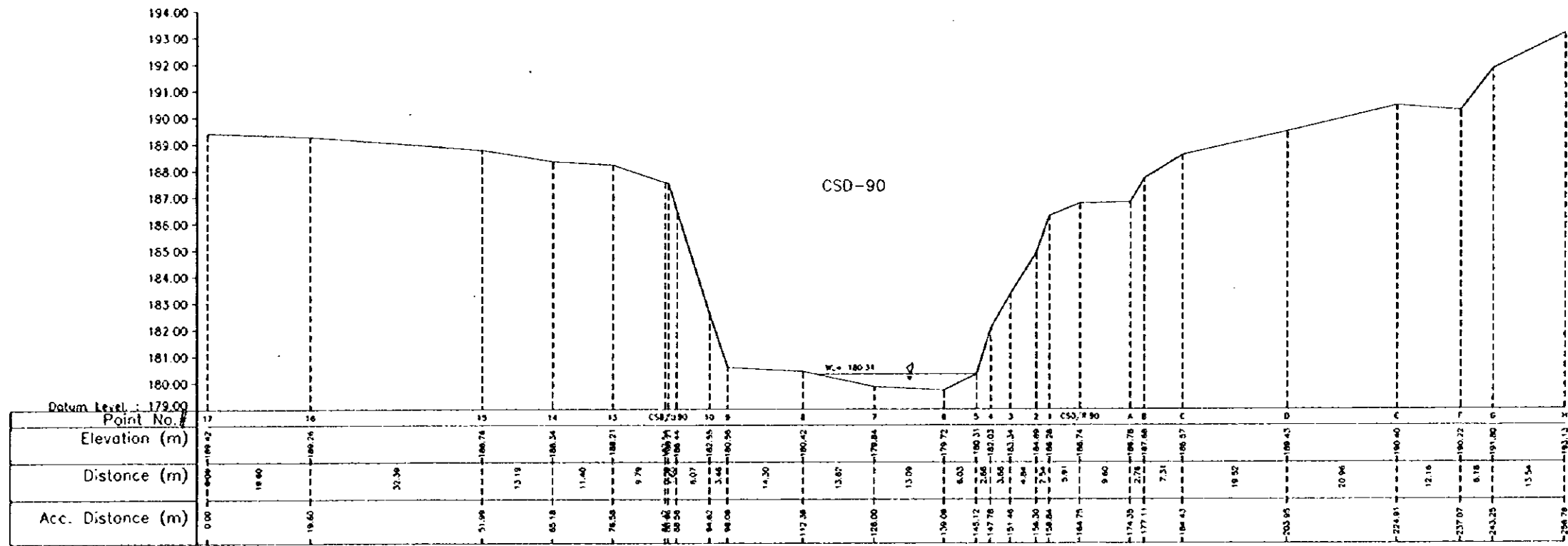
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Name of River : CISADANE RIVER  
 Drawing Title : CROSS SECTION

Checked by : BRENO SOEBANDJO  
 Approved by : I. HAN A. TOPIKANE  
 Scale : Horizontal 1 : 500, Vertical 1 : 100  
 Sheet No : 48 of 56

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 WIRATMAN & Associates  
 JAKARTA - INDONESIA



Date: Sept 13 1985

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

( IN METERS )  
 1 : 500

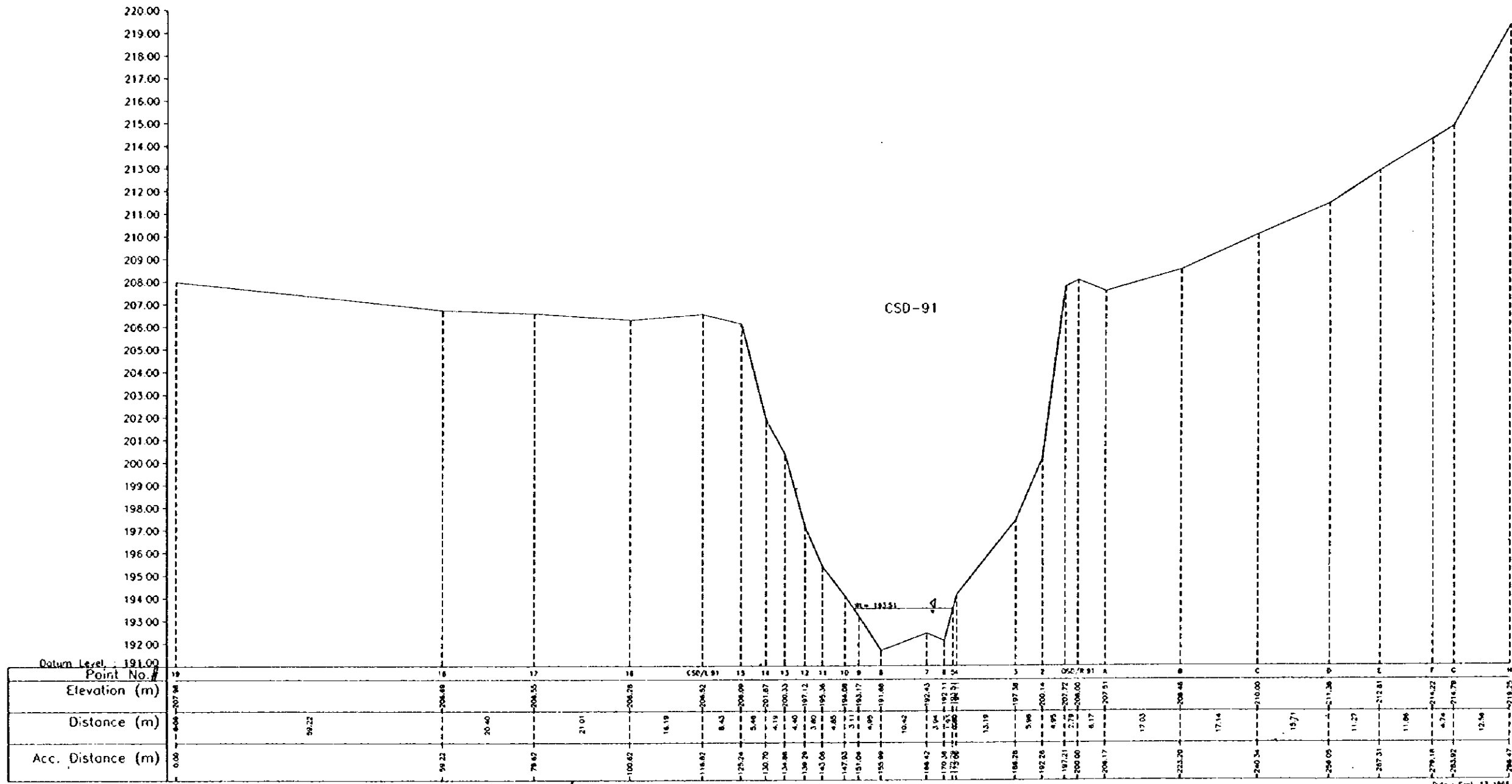
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

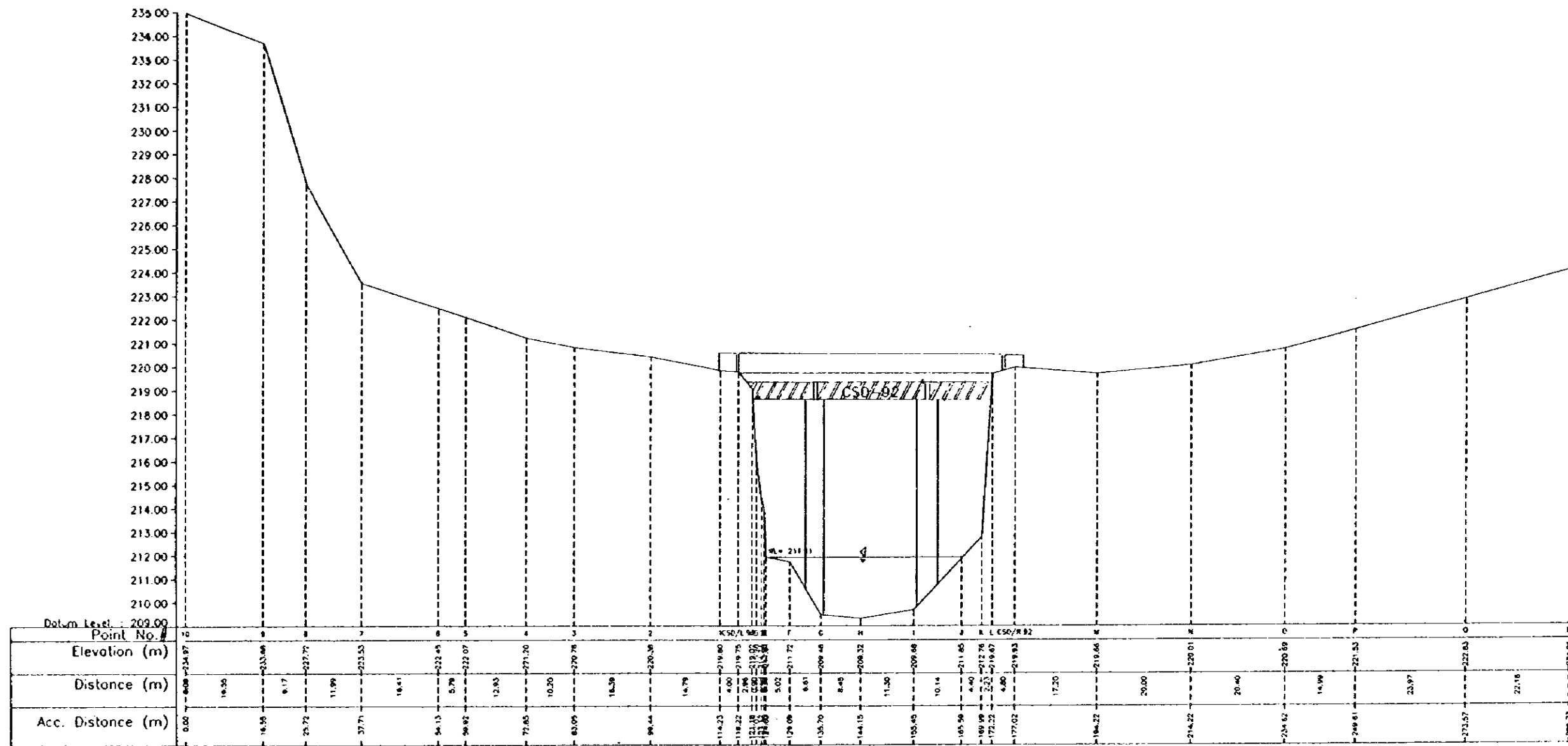
Checked by	Approved by	Scale	Sheet No.
Name: <i>B. H. H. H.</i>	Name: <i>K. H. H. H.</i>	Horizontal 1 : 500	49 of 56
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Vertical 1 : 100	
Date: 13.09.85	Date: 16.09.85		

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Date: Sep 13 1995

<b>Reference Point:</b> The Elevation is referred to TTG 177 = 40.136 meters The correlation between other system are: TTG 177 ± 0 = hAP = 0.975 meters = PP ±		
<b>MINISTRY OF PUBLIC WORKS</b> <b>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT</b> <b>CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT</b>		
<b>THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK</b>		
Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>
Checked By: Name: <i>B. H. H. S.</i> Signature: <i>[Signature]</i> Date: <i>13.11.95</i>	Approved By: Name: <i>T. H. H.</i> Signature: <i>[Signature]</i> Date: <i>16.11.95</i>	Scale: Horizontal: 1 : 500 Vertical: 1 : 100 Sheet No: 50 of 56
<b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY		<b>WIRATMAN &amp; Associates</b> JAKARTA - INDONESIA



Date Sept 13 1995

Reference Point :  
 The Elevation is related to FIG 177 = 40.136 meters  
 The correlation between other system are :  
 FIG 177 ± 0 = hRP - 0.975 meters = PP + 1.115 meter

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

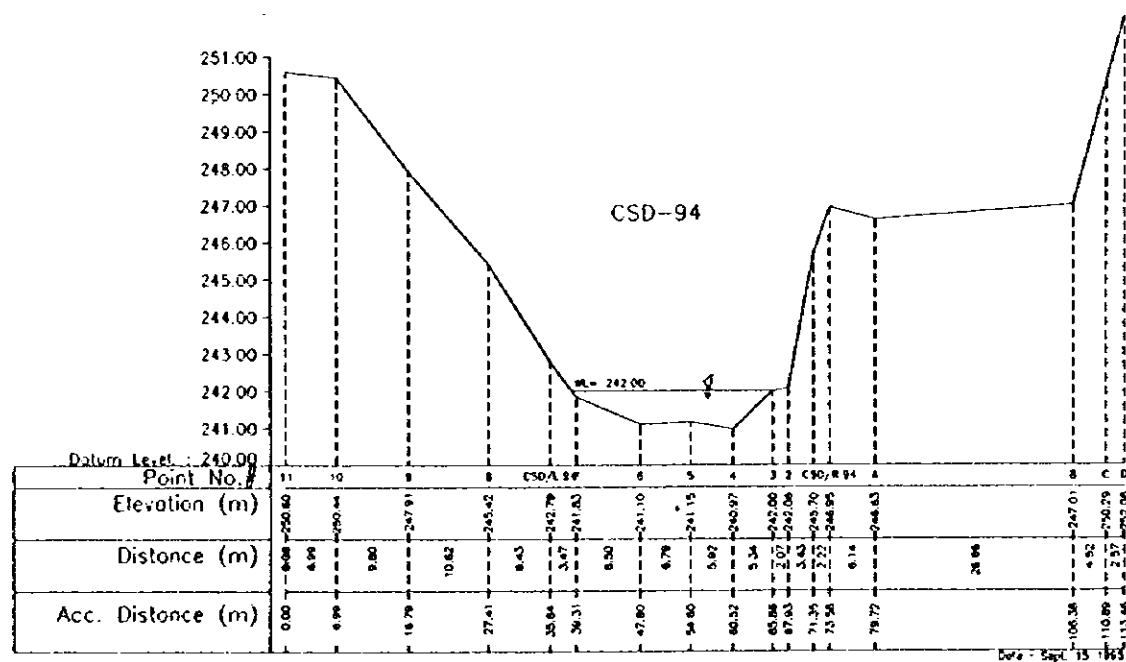
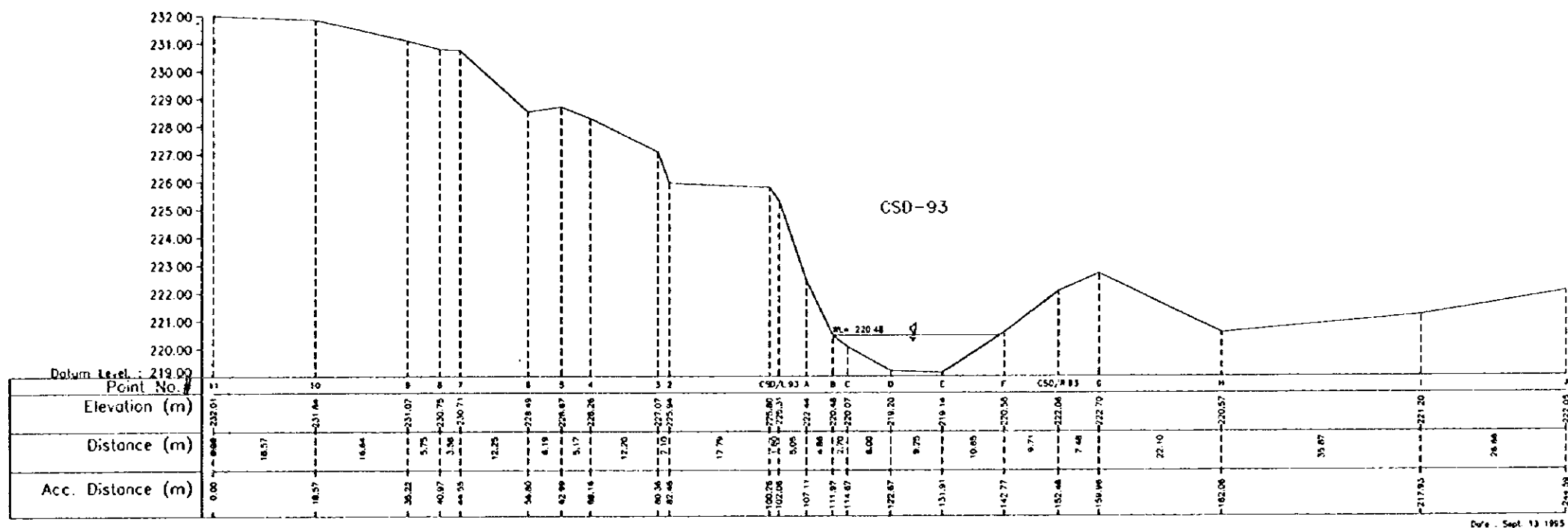
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved By	Scale	Sheet No.
Name : B. SUDONO	Name : K. TOPIANE	Horizontal : 1 : 500	51 of 56
Signature : [Signature]	Signature : [Signature]	Vertical : 1 : 100	
Date : 12.11.95	Date : 12.11.95		

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The correlation between other system are:  
 TIG 177 ± 0 = A.S.P - 0.975 meter = P.P ± ... meter

( IN METERS )  
 1:500  
 1:1000  
 1:1500

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

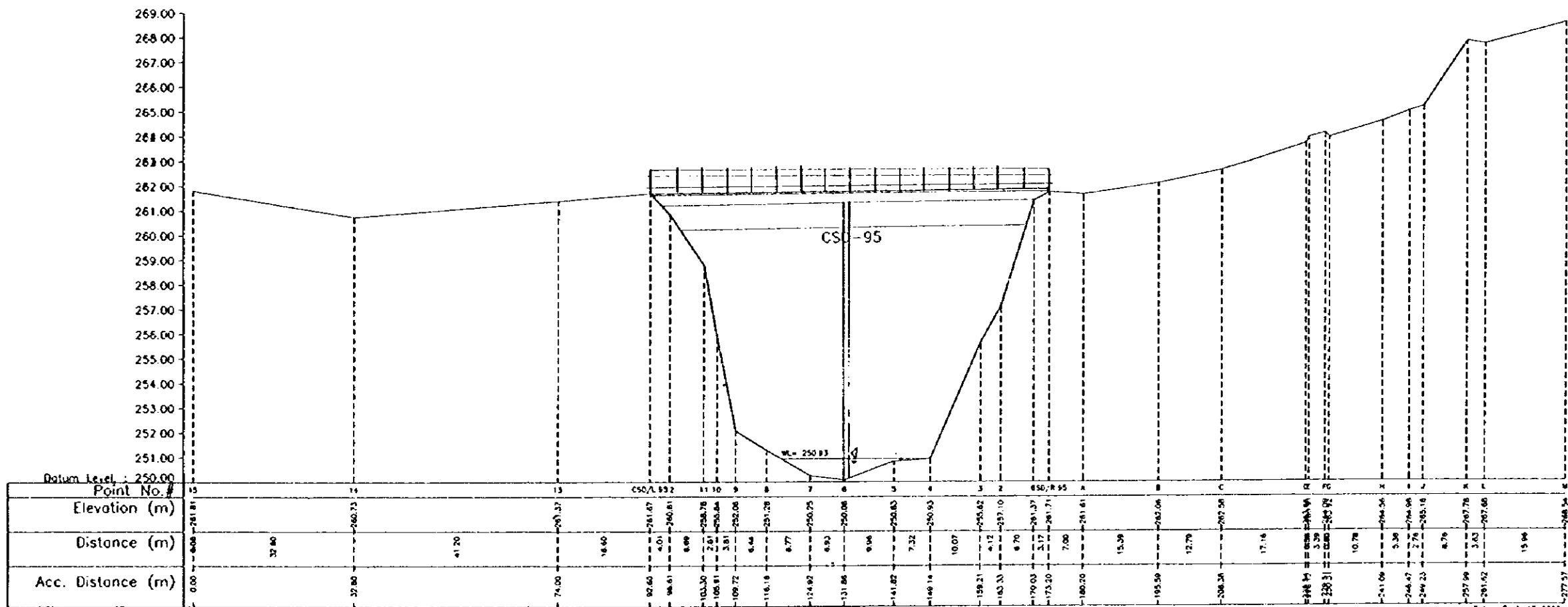
**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

Name of River : **CISADANE RIVER**  
 Reference Point : **CISADANE RIVER**  
 The Elevation is referred to TIG 177 = ± 0.156 meter

Drawing Title : **CROSS SECTION**

Checked by	Approved by	Scale	Sheet No
BKPHD SCEADPO F. BAK R. TORANE		Horizontal 1 : 500 Vertical 1 : 100	52 of 56

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**WILSONMAN & Associates** JAKARTA - INDONESIA



Date : Sept. 15 1993

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 = RP ± ... meter

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

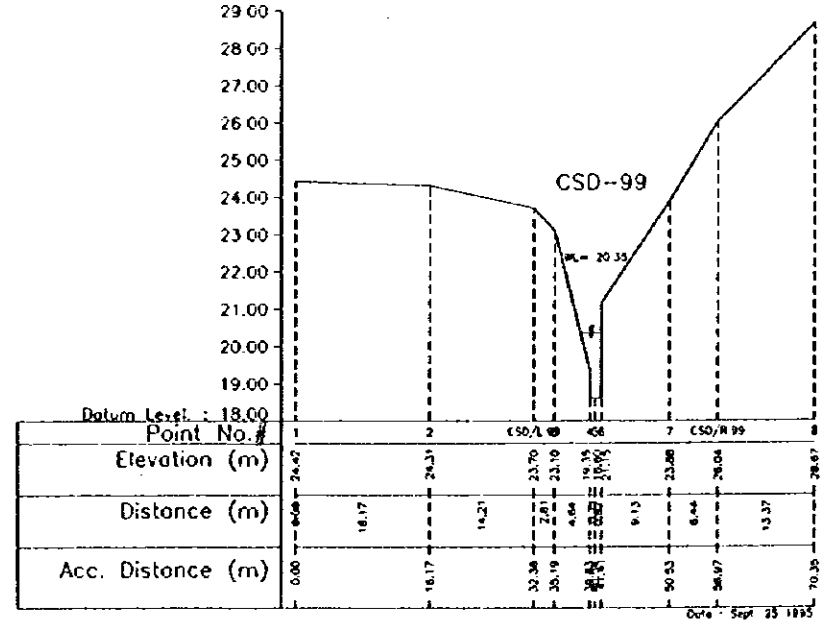
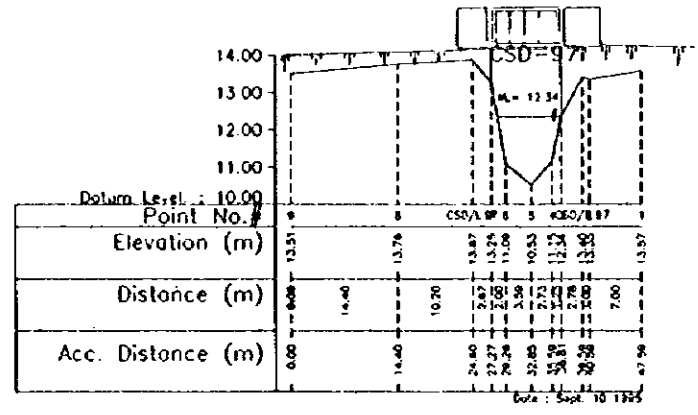
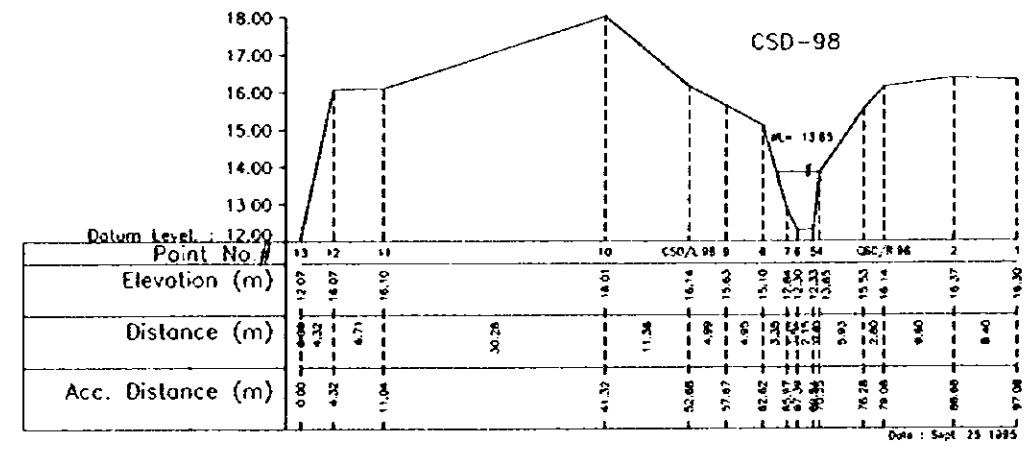
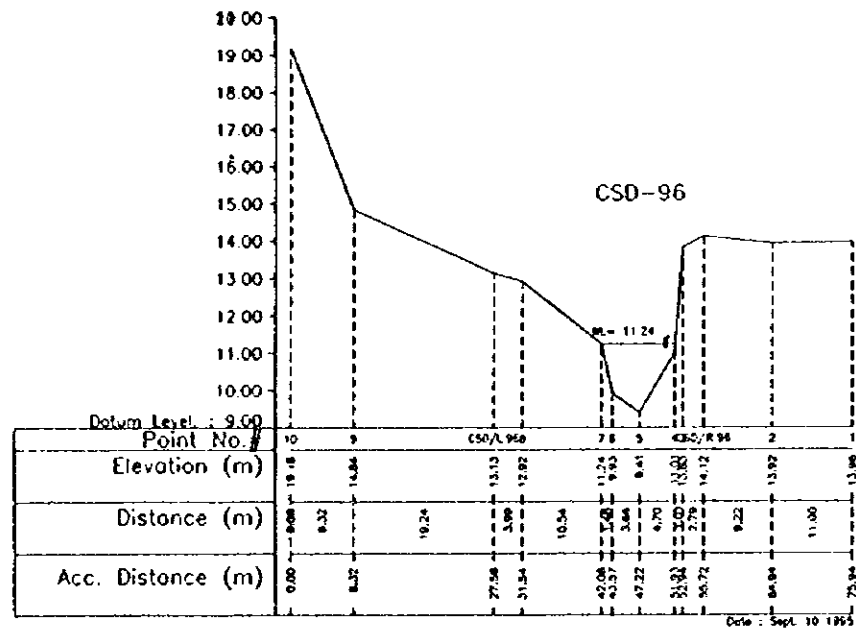
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

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

Checked by	Approved by	Scale	Sheet No
Name : BRUNO SOEDARTO	Name : R. TORANE	Horizontal 1 : 500	53 of 56
Signature : [Signature]	Signature : [Signature]	Vertical 1 : 100	
Date : 12.11.93	Date : 12.11.93		

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

( IN METERS )  
 1:100  
 No. 1 800

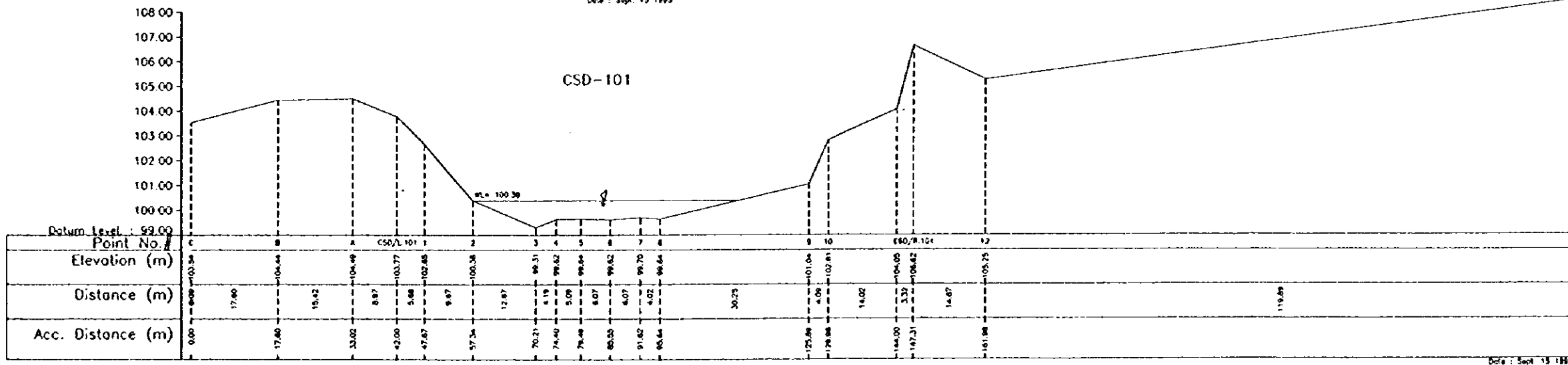
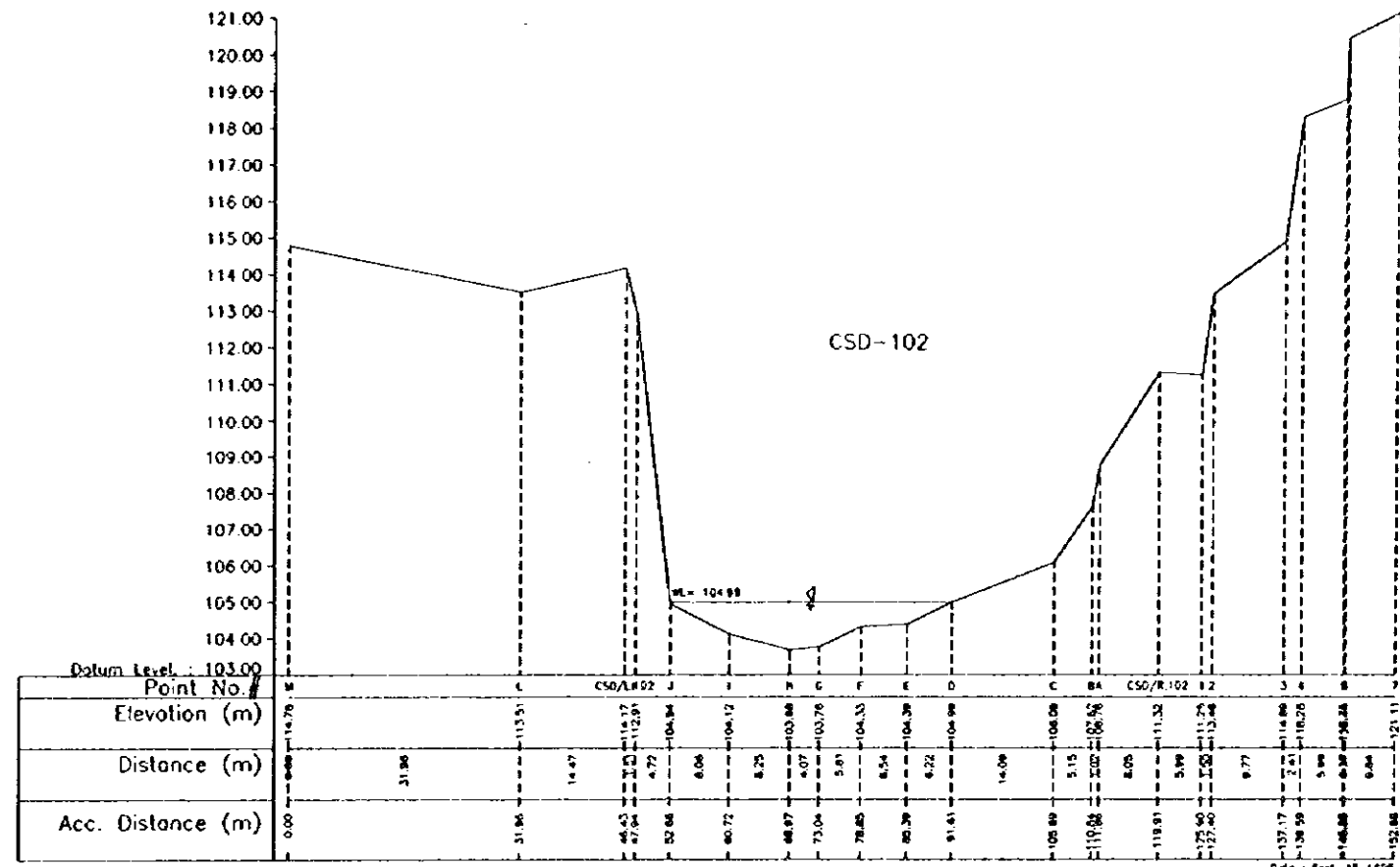
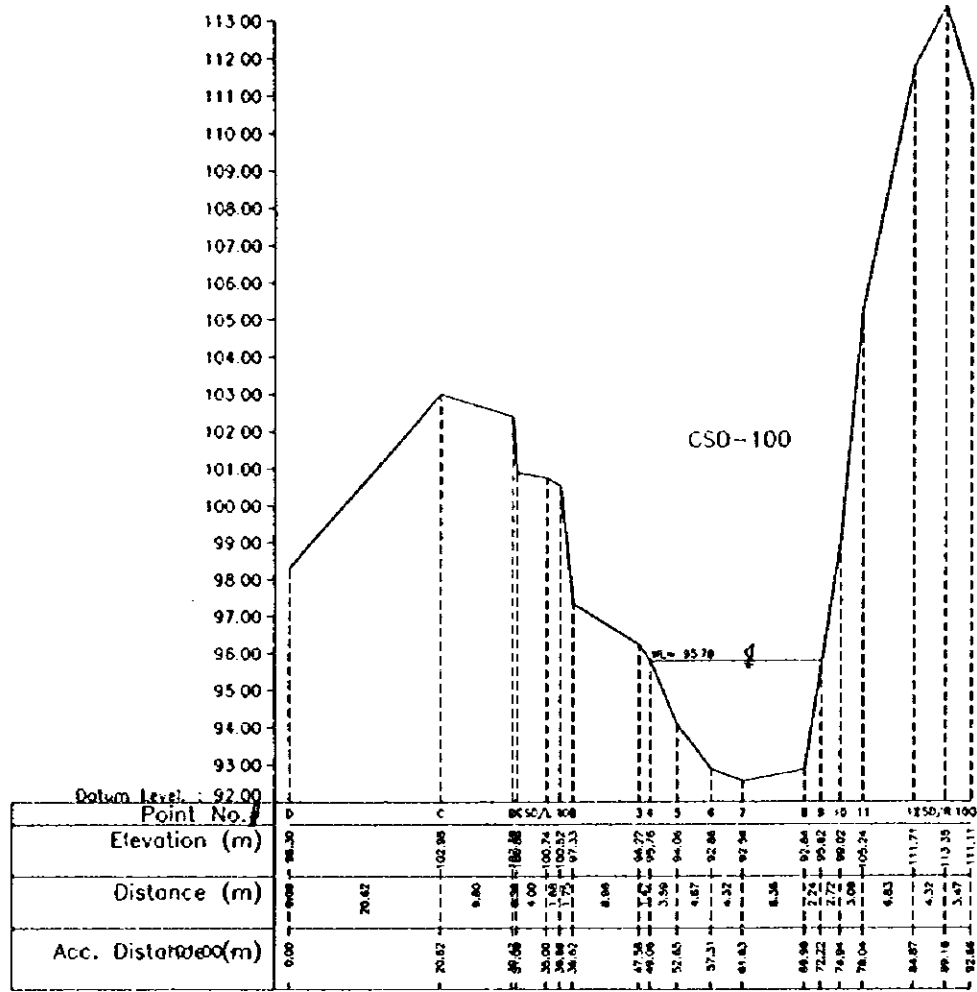
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

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

Checked by	Approved by	Scale	Sheet No
BRAND Signature: [Signature] Date: 16.11.95	SOLIDARIO Signature: [Signature] Date: 16.11.95	Horizontal 1 : 500 Vertical 1 : 100	54 of 56

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

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

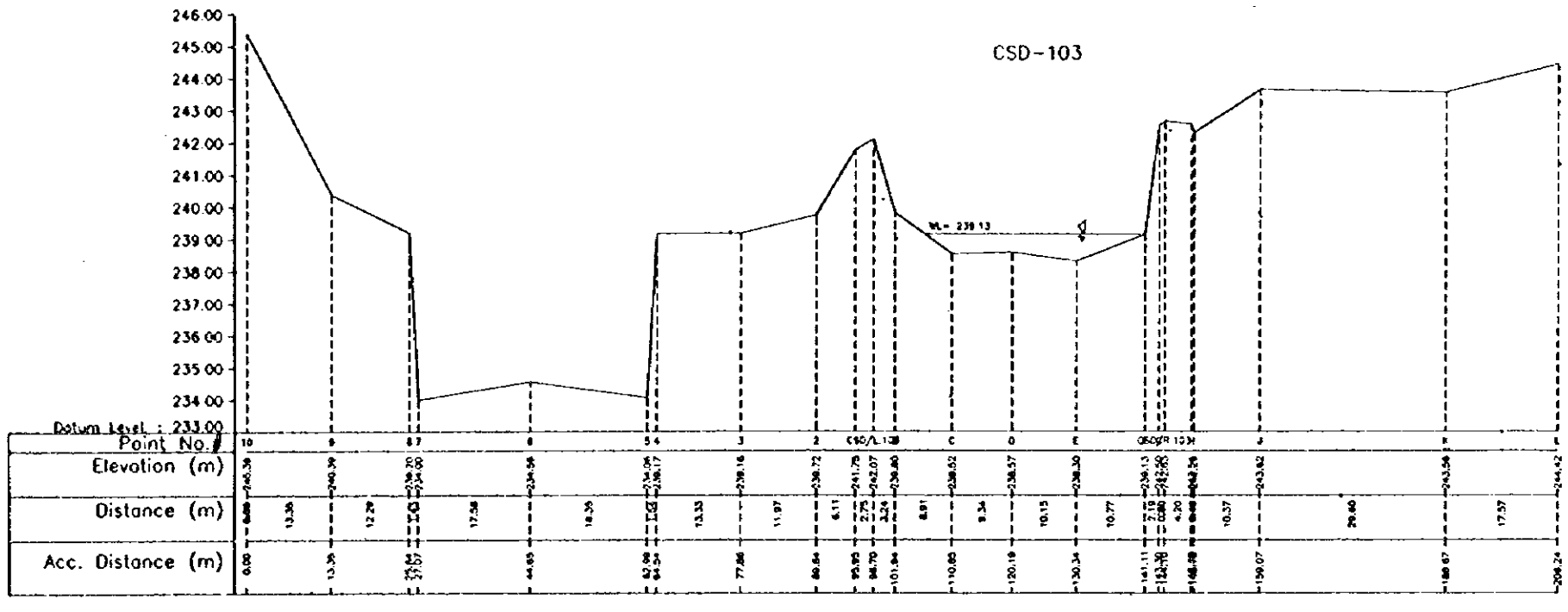
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CILIWUNG CISADANE RIVER BASIN DEVELOPMENT PROJECT**

**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

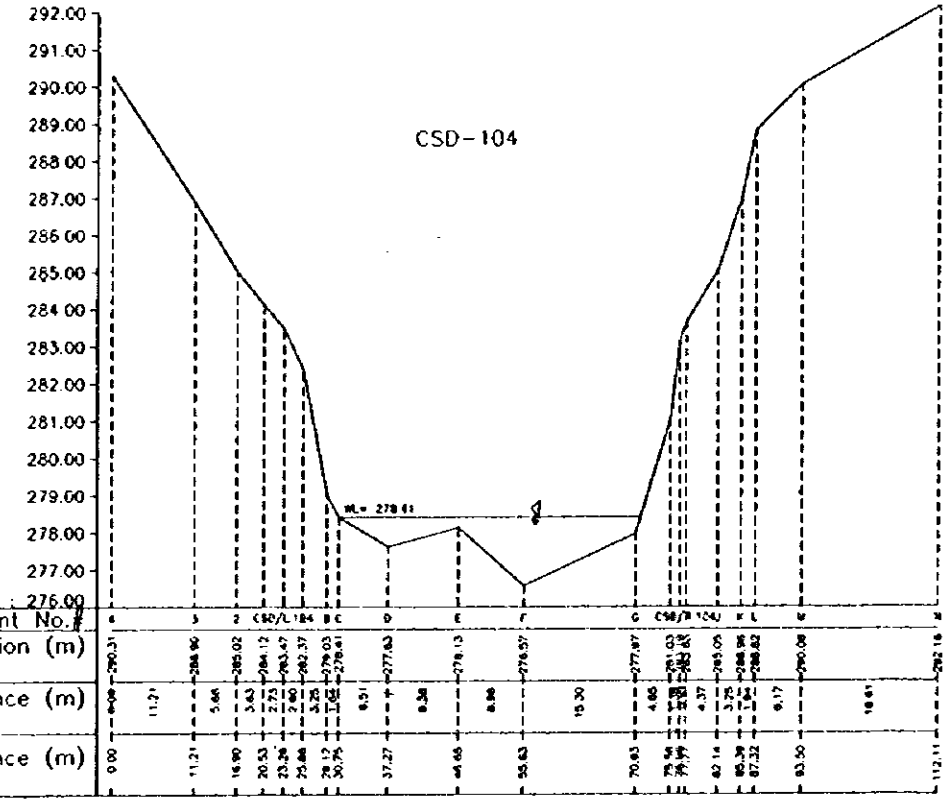
Name of River : **CISADANE RIVER**      Drawing Title : **CROSS SECTION**

Checked by : <b>BRUNO SUCARNO</b>	Approved By : <b>I MAN K TOPRANE</b>	Scale	Sheet No
Signature : <i>[Signature]</i>	Signature : <i>[Signature]</i>	Horizontal : 1 : 500	55 of 56
Date : 12.6.95	Date : 12.9.95	Vertical : 1 : 100	

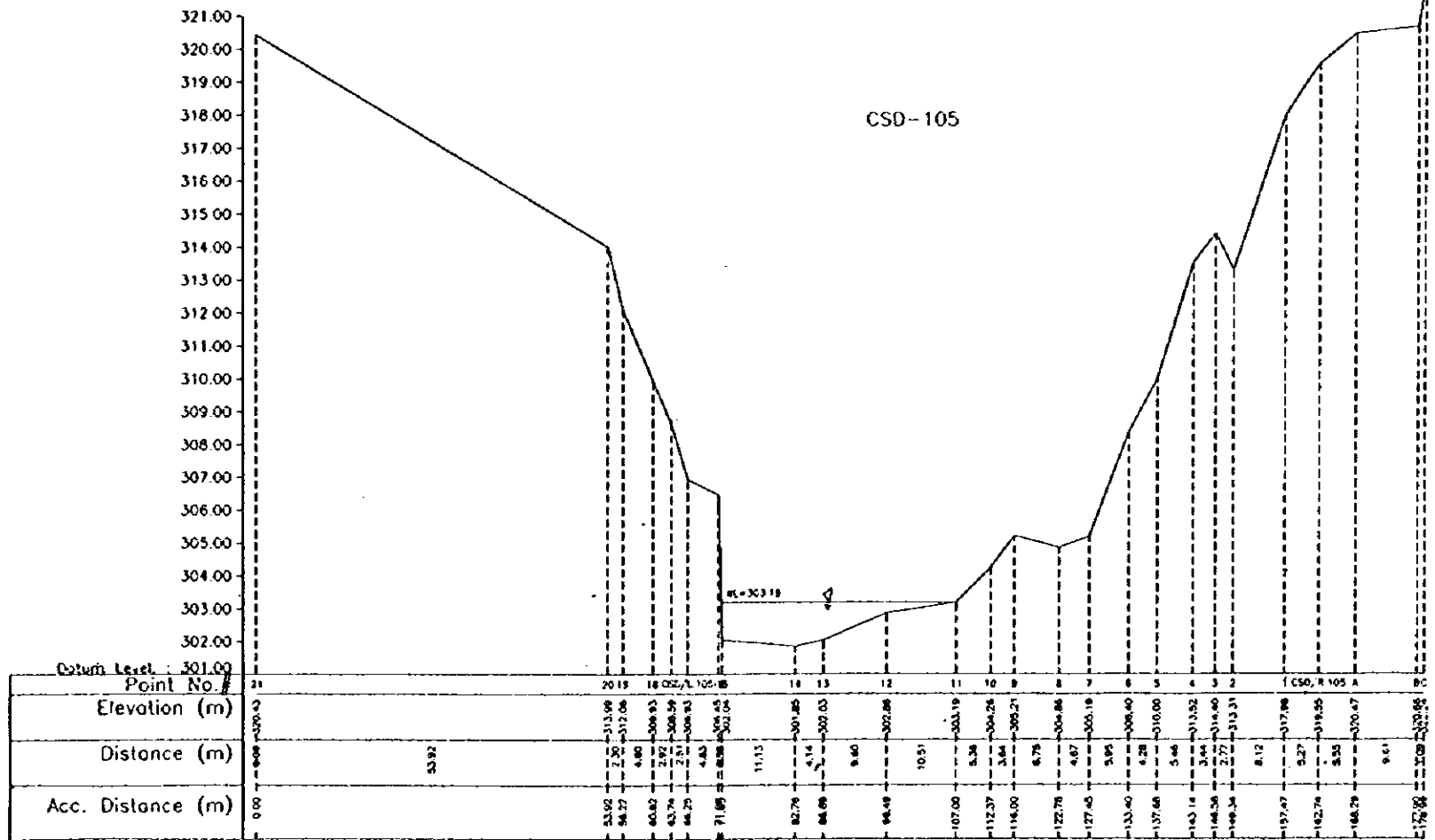
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Date : Sept 15 1995



Date : Sept 15 1995



Date : Sept 15 1995

Reference Point:  
 The Elevation is referred to FIG 177 = 40136 meters  
 The correlation between other system are:  
 FIG 177 ± 0 = NXP - 0.975 meters = PP ± ... meter

( IN METERS )  
 1:100  
 Horizontal 1 : 500  
 Vertical 1 : 100

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**THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK**

Name of River : <b>CISADANE RIVER</b>		Drawing Title : <b>CROSS SECTION</b>	
Checked by : <b>B. W. SOEDARTO</b>	Approved by : <b>T. H. H. E. TORANE</b>	Scale	Sheet No
Date : <b>13.11.95</b>	Date : <b>16.11.95</b>	Horizontal 1 : 500	56 of 56
		<b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY <b>WIRATAMA 6 Associates</b> JAKARTA - INDONESIA	