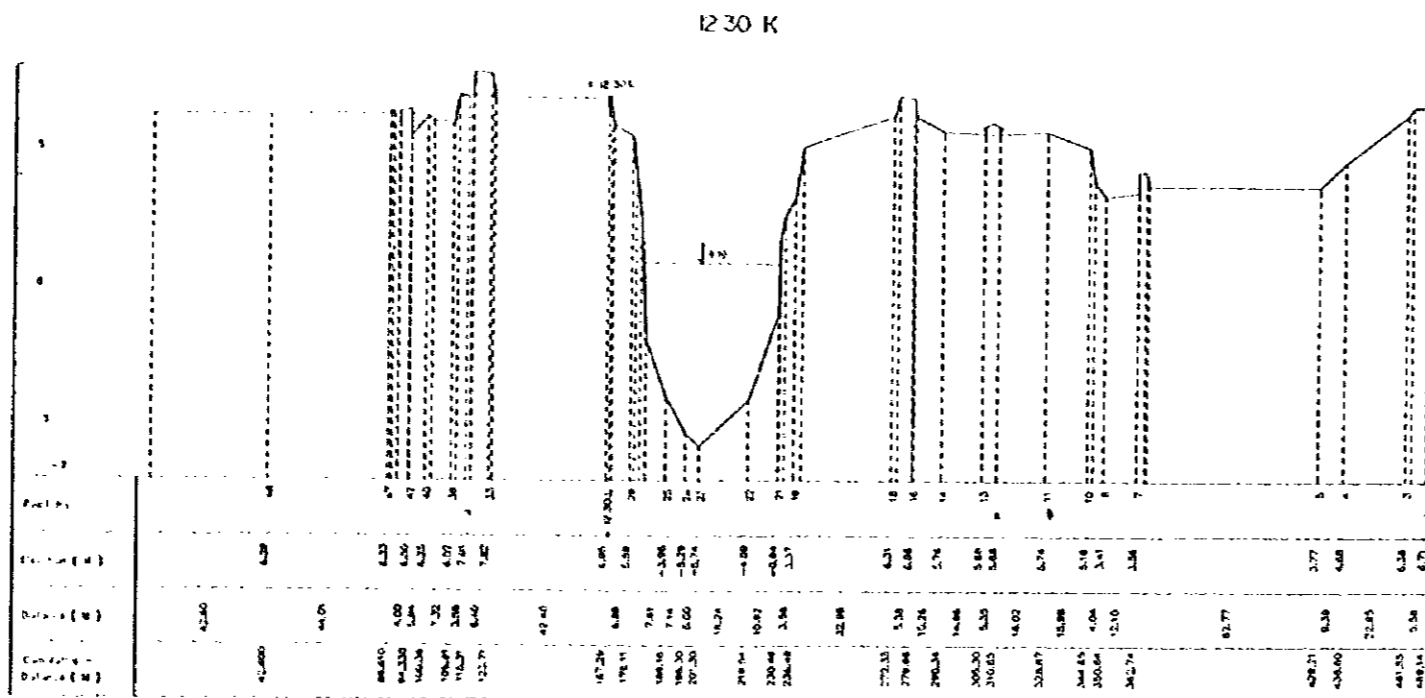
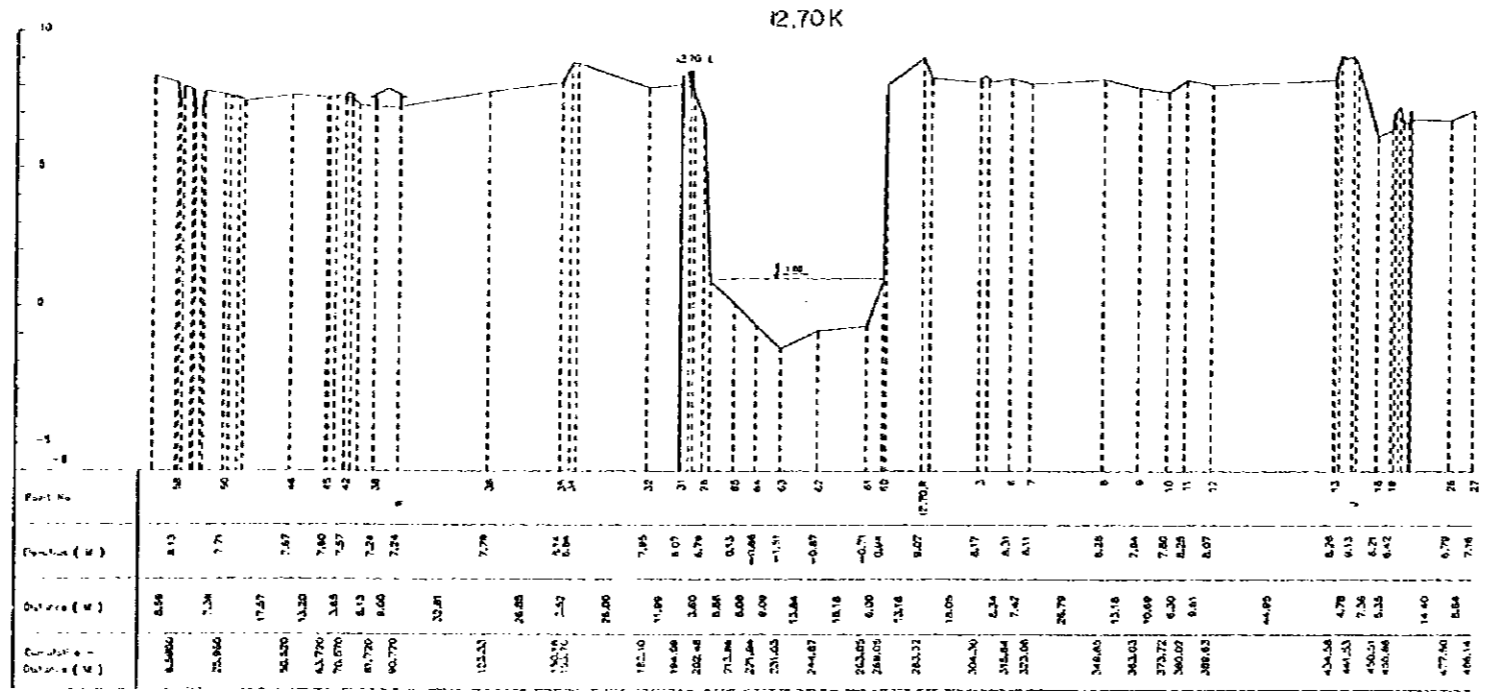
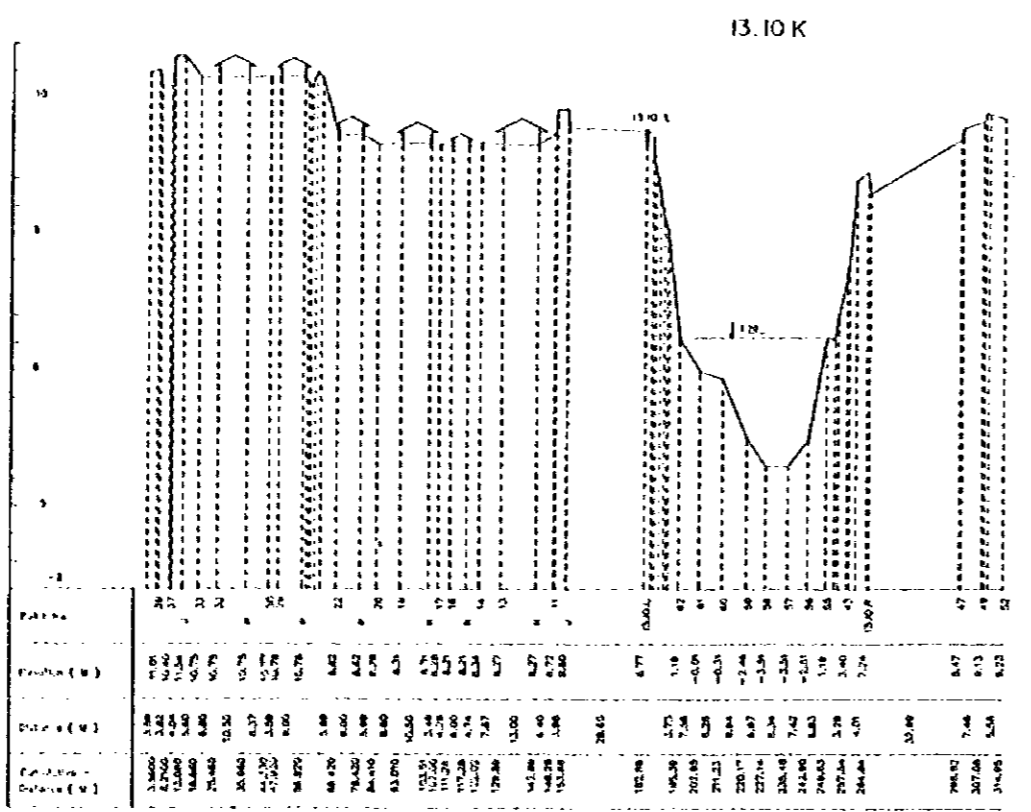


Date : 2.18.08  
Time : 14.00





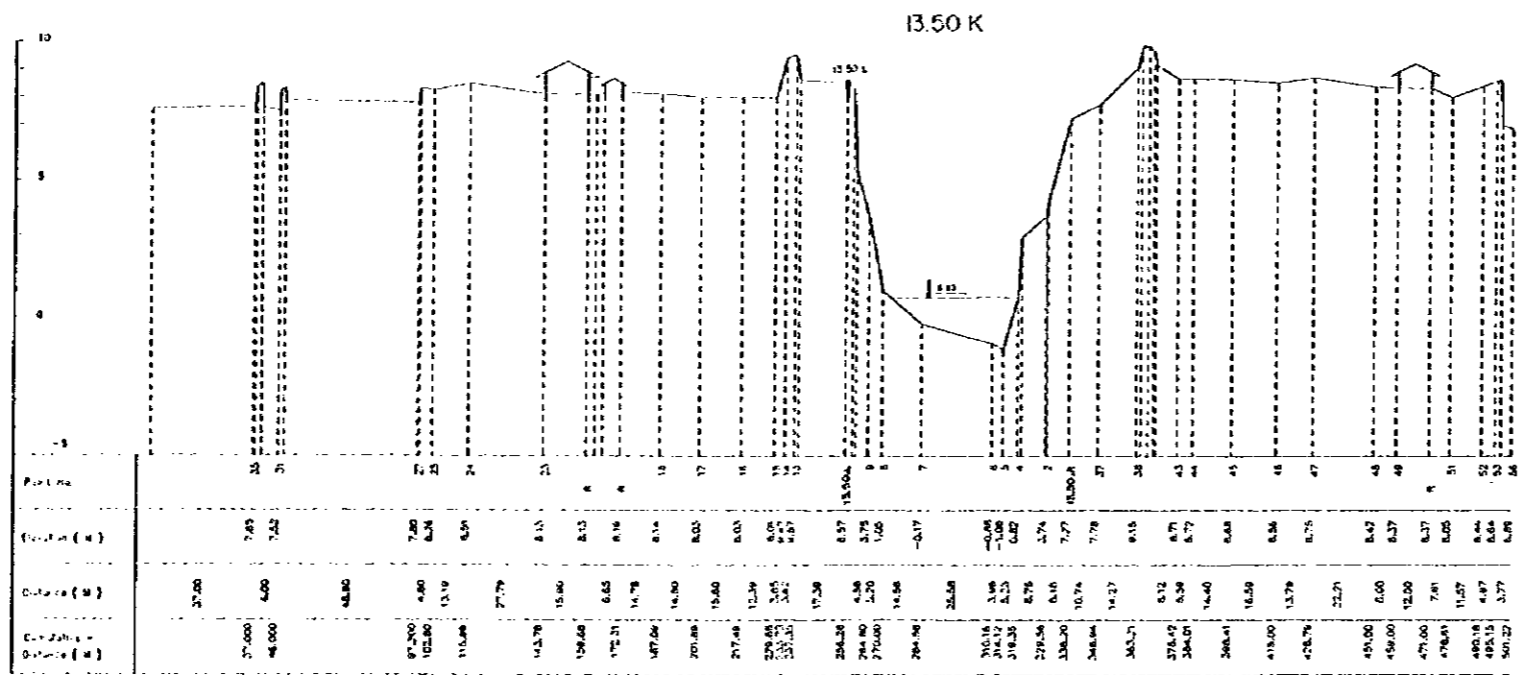
Note: Elevations based on Mean Sea Level (115.)  
 Date: 27.05.98  
 Time: 14.00



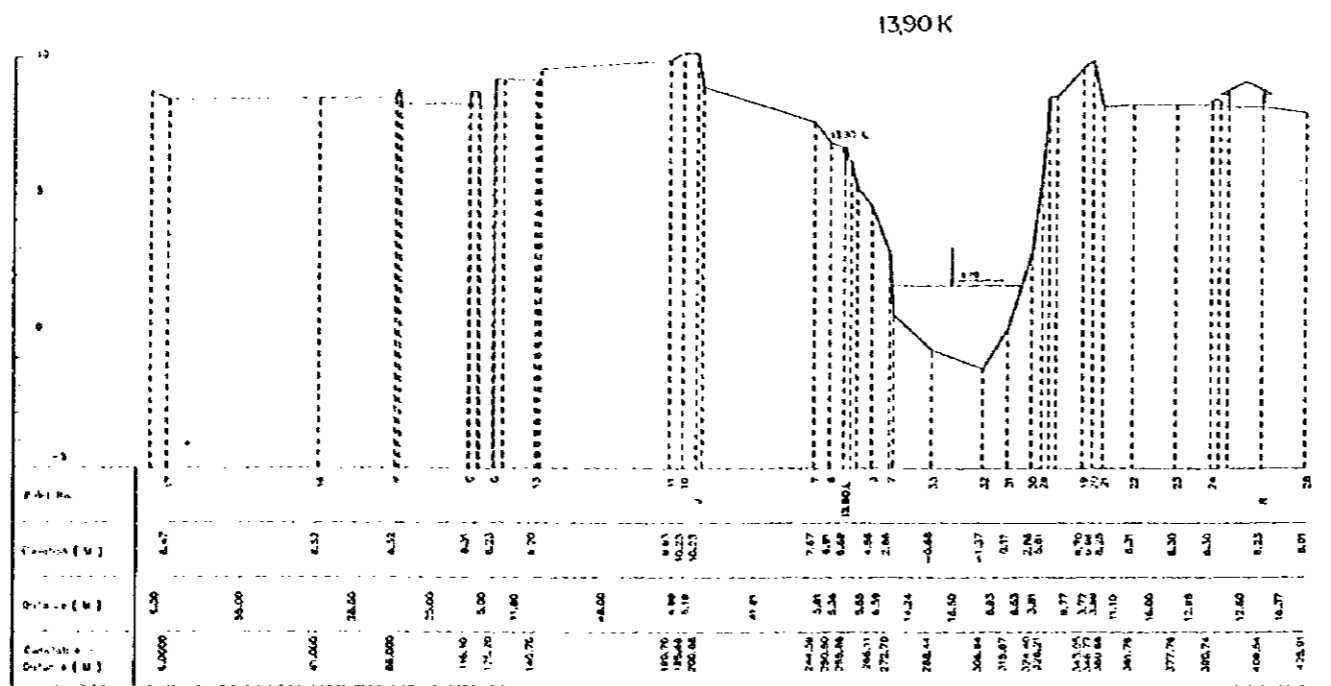
Note: Elevations based on Mean Sea Level (115.)  
 Date: 27.05.98  
 Time: 13.00

Note: Elevations based on Mean Sea Level (115.)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
<b>THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK</b>	
RIVER SURVEY	CISADANE RIVER
TITLE OF DRAWING	
CROSS SECTION	
CHECKED	APPROVED
NAME	NAME
SIGNATURE	SIGNATURE
DATE	DATE
SCALE	SHEET NO.
H = 1 : 1,000	14 / 25
V = 1 : 100	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	PT. ATLAS DELTASATYA



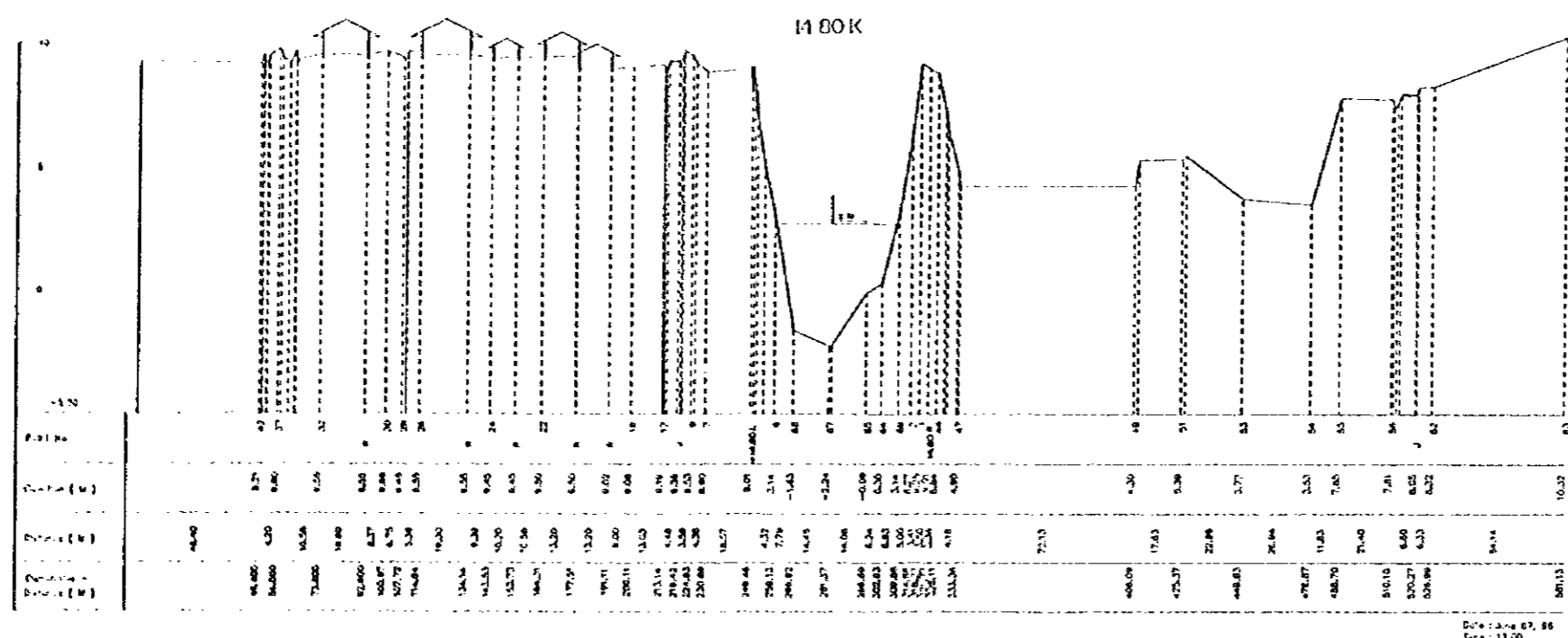
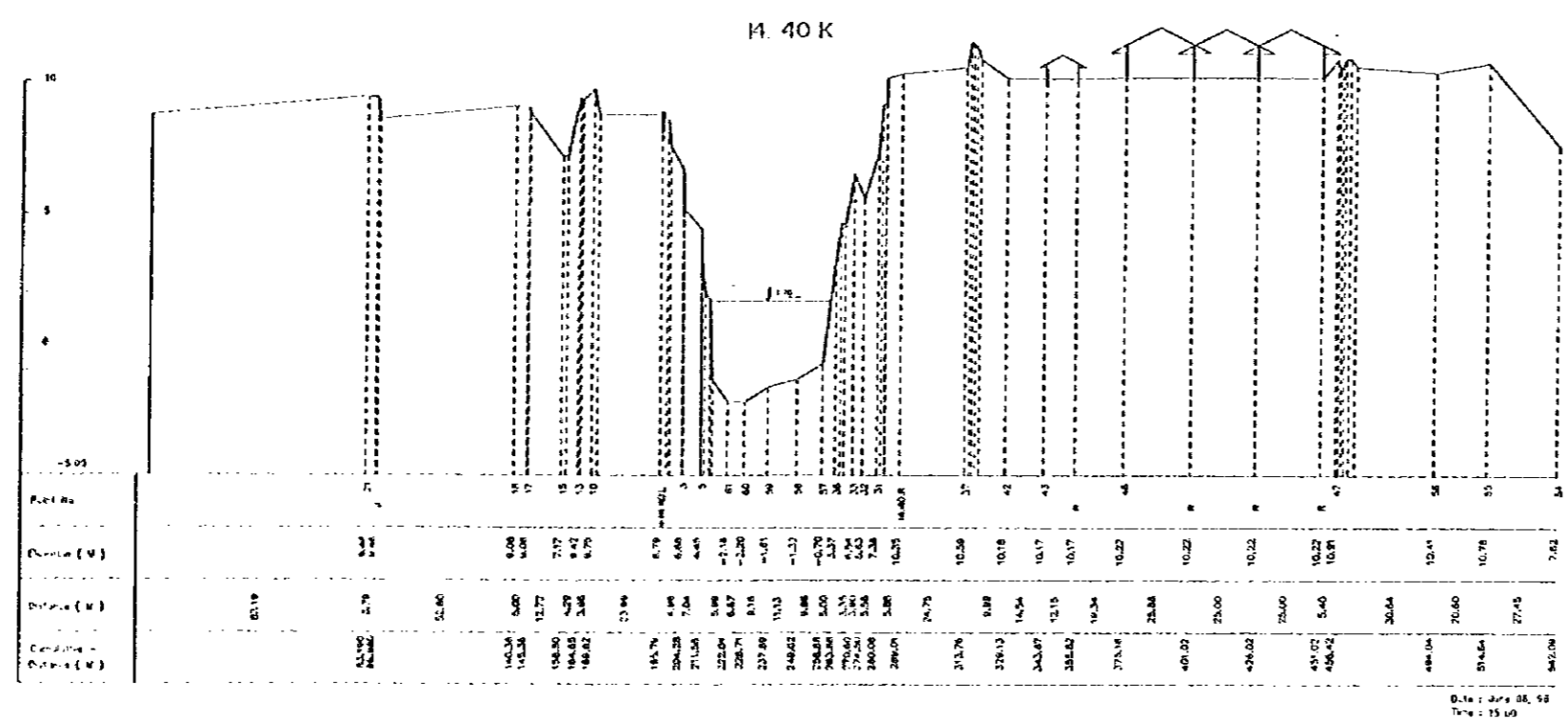
Date : Apr 08, 98  
Time : 11 00



Date : Apr 08, 98  
Time : 13 30

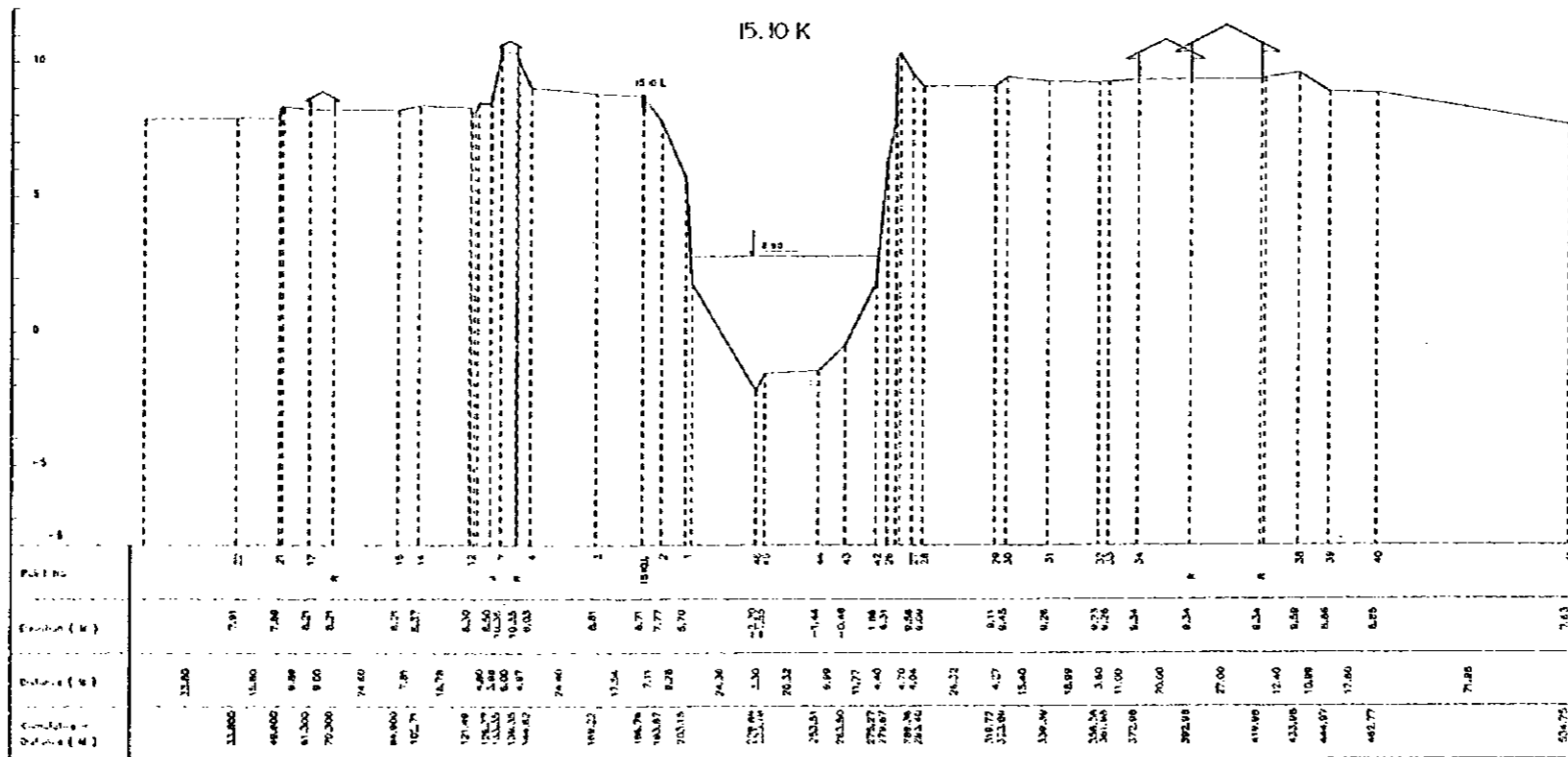
Note : Elevation based on Mean Sea Level (TIG.)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JAJOTABEK	
RIVER SURVEY	CISADANE RIVER
	CROSS SECTION
DATE	SCALE
SIGNATURE	H = 1 : 1,000
DATE	V = 1 : 100
JICA	PT. ATLAS DELTASATYA

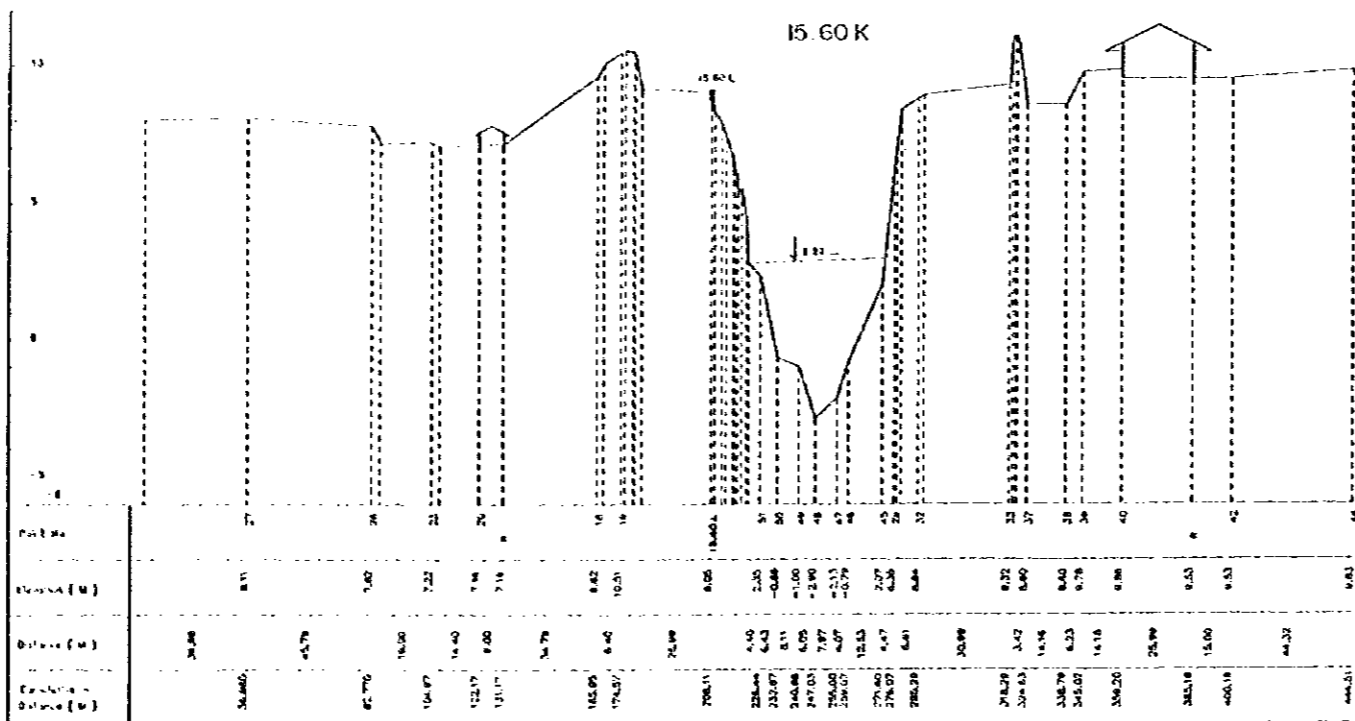


Note: Elevation is based on Mean Sea Level (TTC)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		OSISARE RIVER FILE OF DRAWINGS	
CROSS SECTION		SCALE: 1:1000	
DATE	1987	DATE	1987
DRAWN BY: [Signature]		CHECKED BY: [Signature]	
DATE: 1987		DATE: 1987	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATYA	



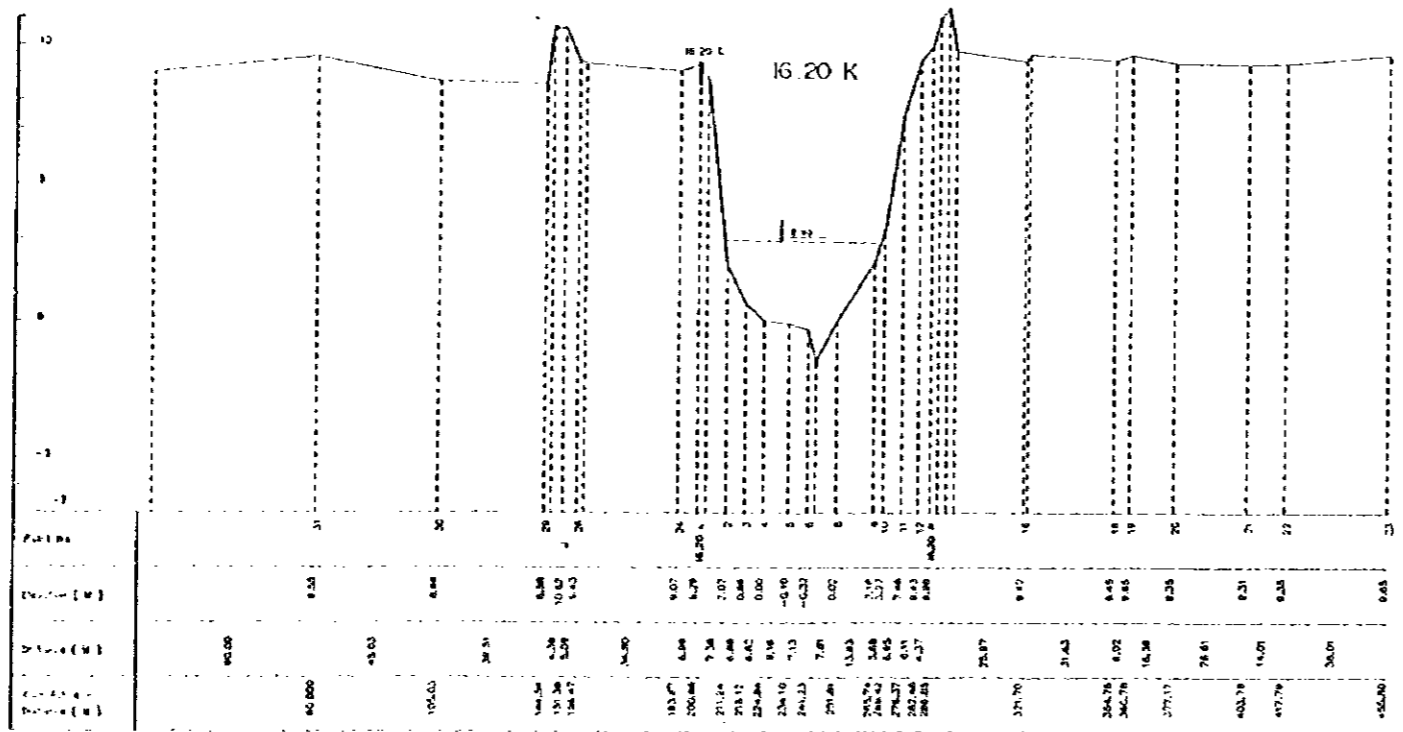
Date: Apr 04, 98  
Scale: 1:50



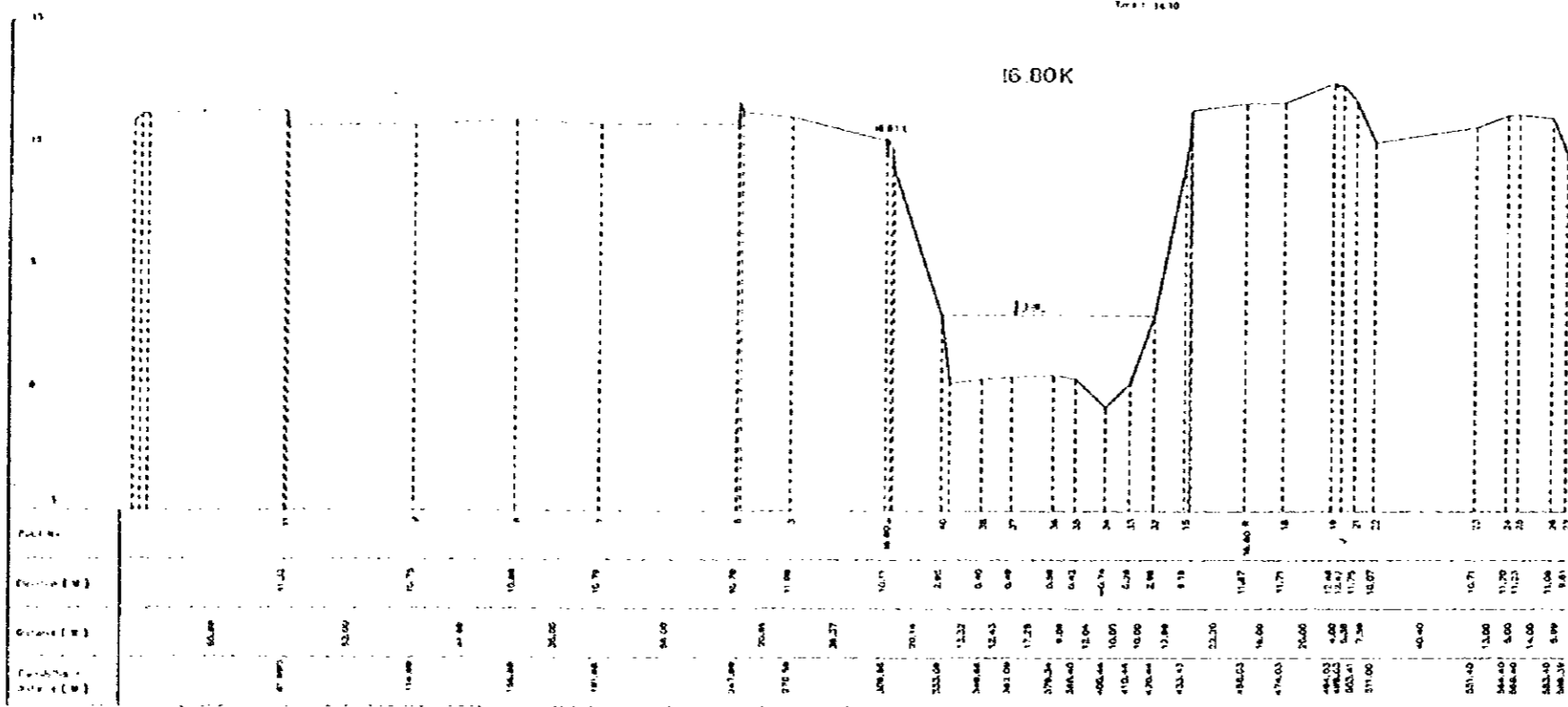
Date: Apr 04, 98  
Scale: 1:50

Note: Elevation is based on Mean Sea Level (TIG)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTABEK			
RIVER SURVEY		CISADANE RIVER FILE OF DRAWINGS	
CROSS SECTION		SCALE: H = 1 : 1,000 V = 1 : 100	
NAME	DESIGN	APPROVED	SHEET No. 17 / 25
SIGNATURE	DATE	DATE	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PE. ATLAS DELTASATYA	



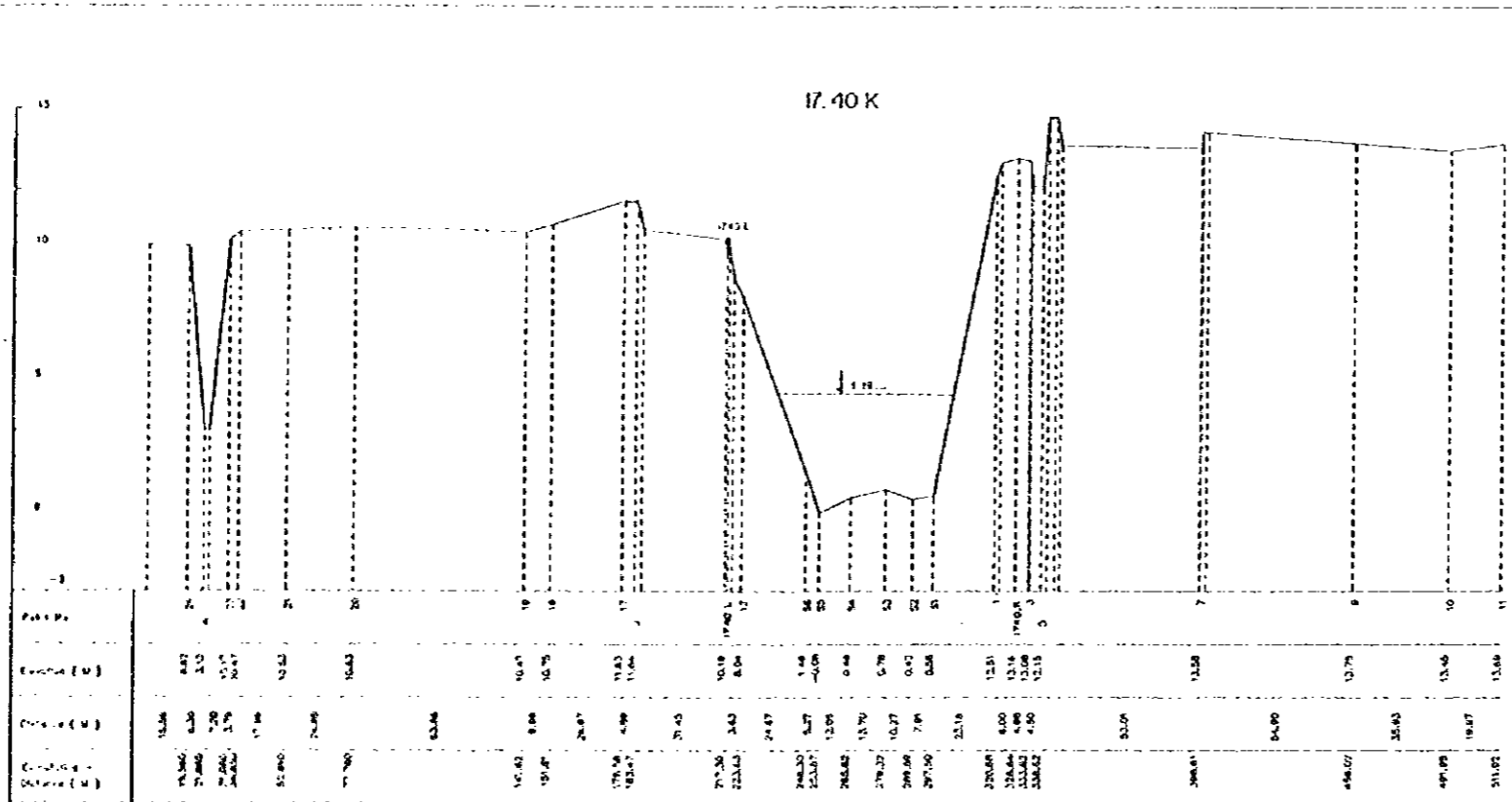
Date: Apr 27, 98  
 No: 14.10



Date: Feb 12, 98  
 No: 58.45

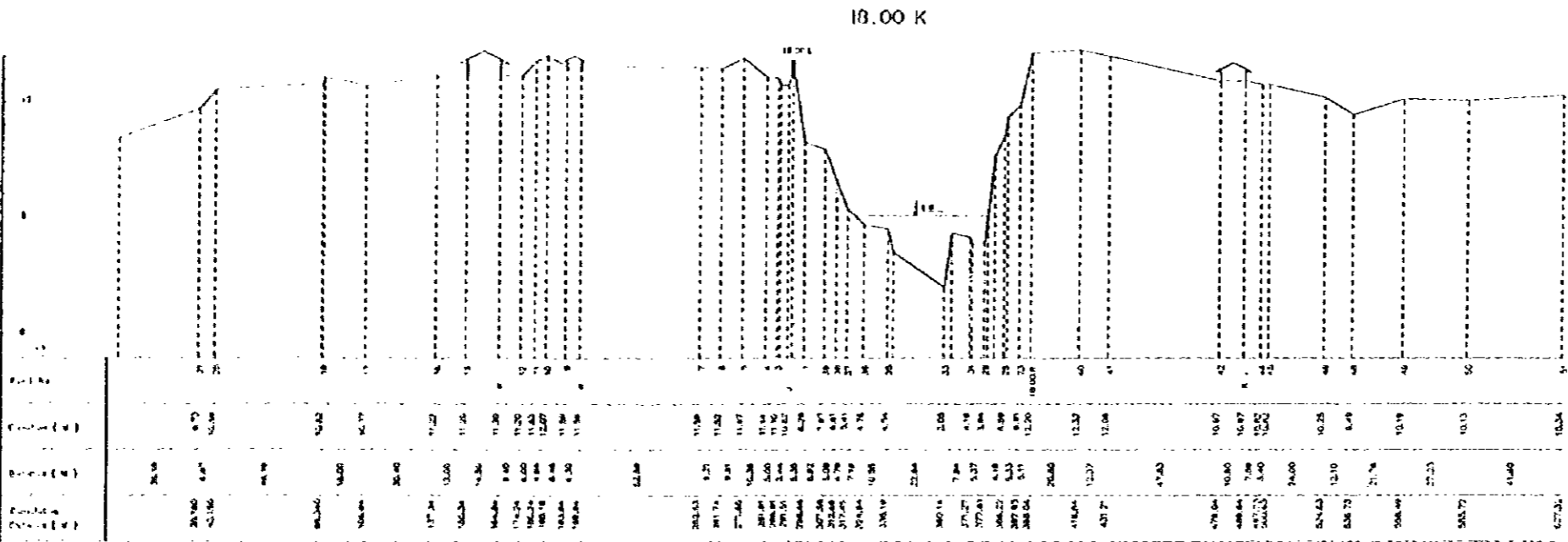
Note: Elevation is based on Mean Sea Level (110)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		CISADANE RIVER FILE OF DRAWING	
CROSS SECTION		CROSS SECTION	
DATE	SCALE	APPROVED	SHEET No. 1
1998	H = 1 : 1,000 V = 1 : 100		18 / 25
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY	PT. ATLAS DELTASATYA	



Stationing (m)	Elevation (m)	Channel Bed (m)	Water Surface (m)
1	15.26	15.26	15.26
2	15.26	15.26	15.26
3	15.26	15.26	15.26
4	15.26	15.26	15.26
5	15.26	15.26	15.26
6	15.26	15.26	15.26
7	15.26	15.26	15.26
8	15.26	15.26	15.26
9	15.26	15.26	15.26
10	15.26	15.26	15.26
11	15.26	15.26	15.26

Date: June 11, 84  
Time: 15:45



Stationing (m)	Elevation (m)	Channel Bed (m)	Water Surface (m)
1	15.26	15.26	15.26
2	15.26	15.26	15.26
3	15.26	15.26	15.26
4	15.26	15.26	15.26
5	15.26	15.26	15.26
6	15.26	15.26	15.26
7	15.26	15.26	15.26
8	15.26	15.26	15.26
9	15.26	15.26	15.26
10	15.26	15.26	15.26
11	15.26	15.26	15.26
12	15.26	15.26	15.26
13	15.26	15.26	15.26
14	15.26	15.26	15.26
15	15.26	15.26	15.26
16	15.26	15.26	15.26
17	15.26	15.26	15.26
18	15.26	15.26	15.26
19	15.26	15.26	15.26
20	15.26	15.26	15.26
21	15.26	15.26	15.26
22	15.26	15.26	15.26
23	15.26	15.26	15.26
24	15.26	15.26	15.26
25	15.26	15.26	15.26
26	15.26	15.26	15.26
27	15.26	15.26	15.26
28	15.26	15.26	15.26
29	15.26	15.26	15.26
30	15.26	15.26	15.26
31	15.26	15.26	15.26
32	15.26	15.26	15.26
33	15.26	15.26	15.26
34	15.26	15.26	15.26
35	15.26	15.26	15.26
36	15.26	15.26	15.26
37	15.26	15.26	15.26
38	15.26	15.26	15.26
39	15.26	15.26	15.26
40	15.26	15.26	15.26
41	15.26	15.26	15.26
42	15.26	15.26	15.26
43	15.26	15.26	15.26
44	15.26	15.26	15.26
45	15.26	15.26	15.26
46	15.26	15.26	15.26
47	15.26	15.26	15.26
48	15.26	15.26	15.26
49	15.26	15.26	15.26
50	15.26	15.26	15.26

Date: June 07, 84  
Time: 10:00

Note: Elevation based on Mean Sea Level (TIG)

MINISTRY OF PUBLIC WORKS  
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

THE STUDY ON COMPREHENSIVE RIVER  
WATER MANAGEMENT PLAN IN JADOTAEK

GISADANE RIVER  
AREA OF CROSS

RIVER SURVEY

CROSS SECTION

DATE	01/01/84	01/01/84	01/01/84	01/01/84	01/01/84
SCALE	H = 1 : 1,000 V = 1 : 100				
NO. OF SHEETS	24/25				
DATE	19 / 25				

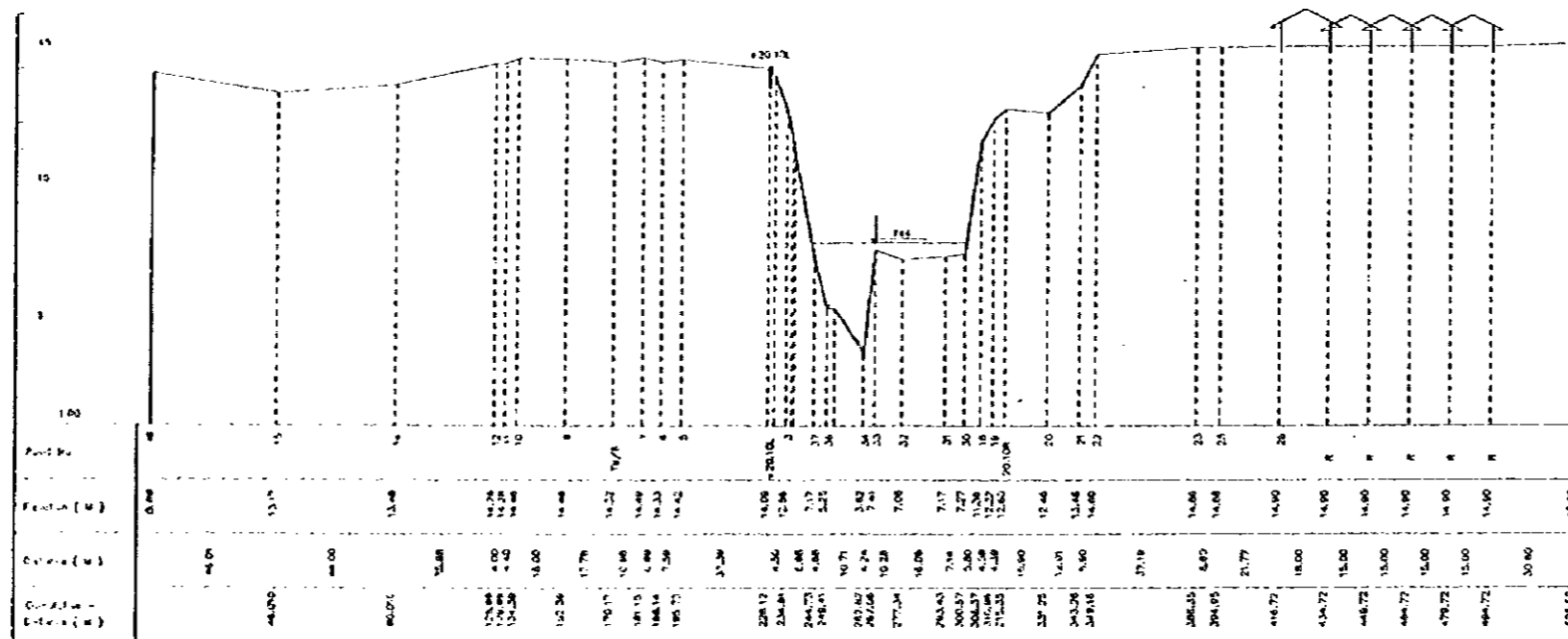
JICA JAPAN INTERNATIONAL COOPERATION AGENCY P. ATLAS GELTASATTA



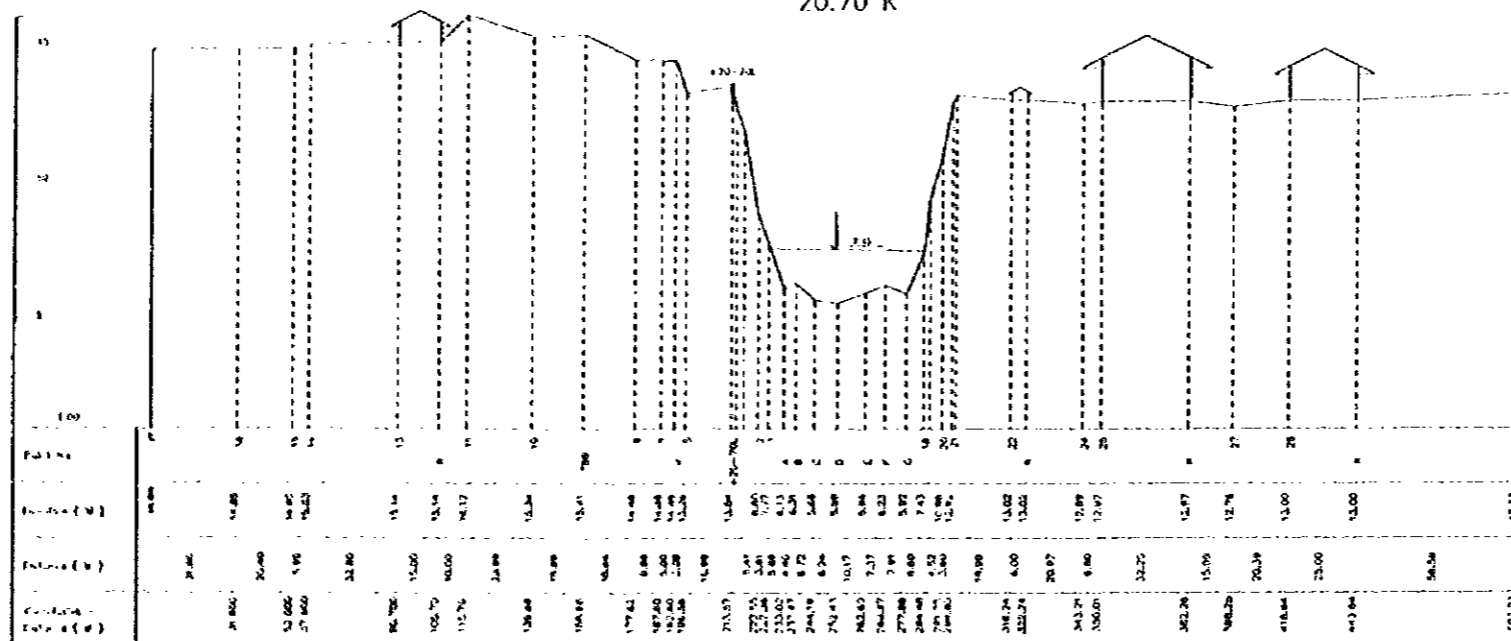




20.10 K

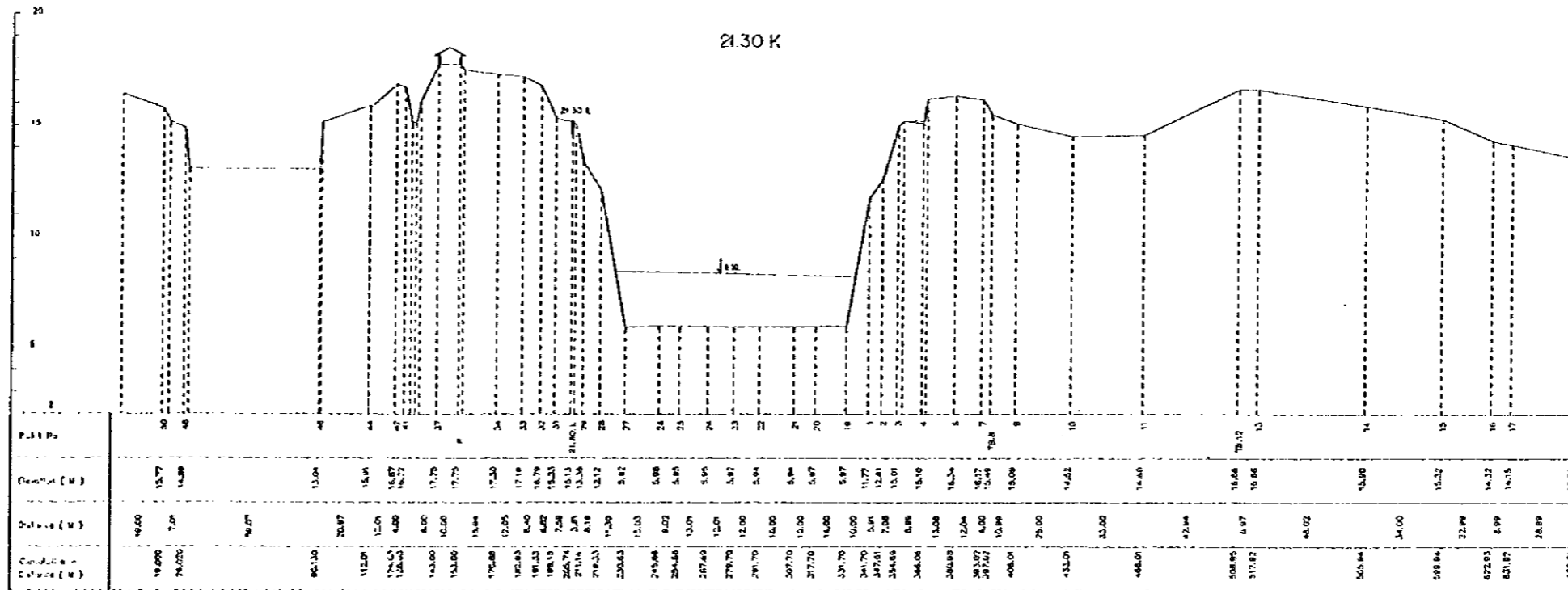


20.70 K

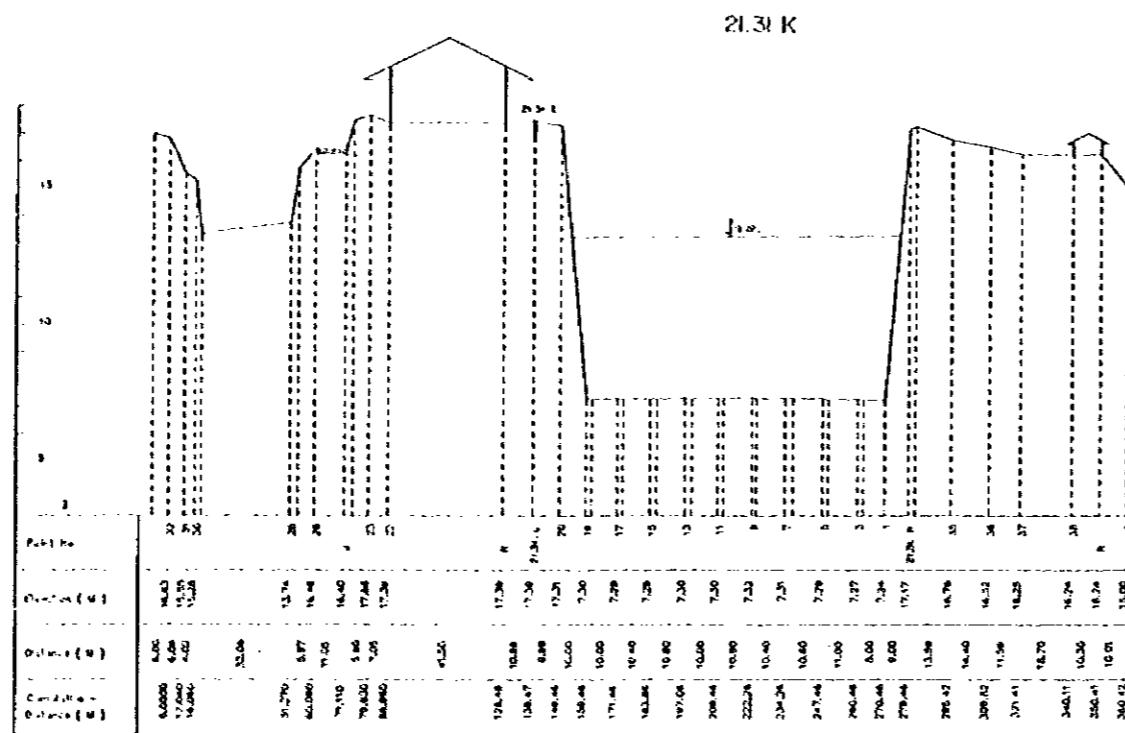


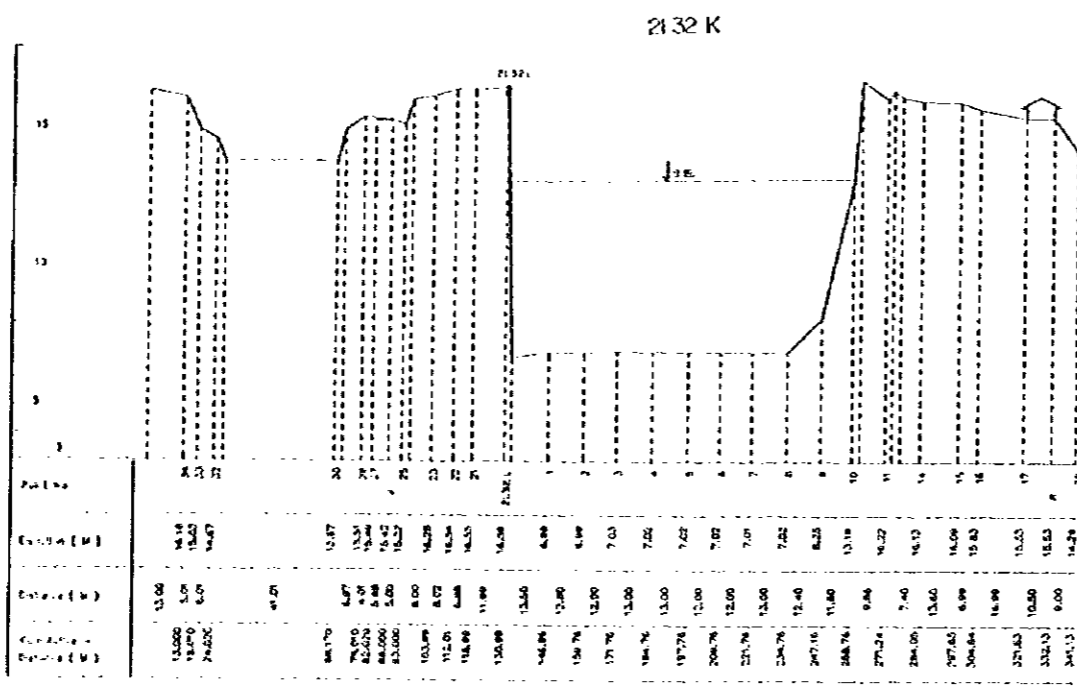
Note: Elevation is based on Mean Sea Level (190)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK	
CISADANE RIVER DIREC OF OFFICES	
RIVER SURVEY	
CROSS SECTION	
DATE: 02/01/00	NO: 040
SCALE: H = 1 : 1000 V = 1 : 100	22 / 25
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	
PT. ATLAS DELTASATYA	

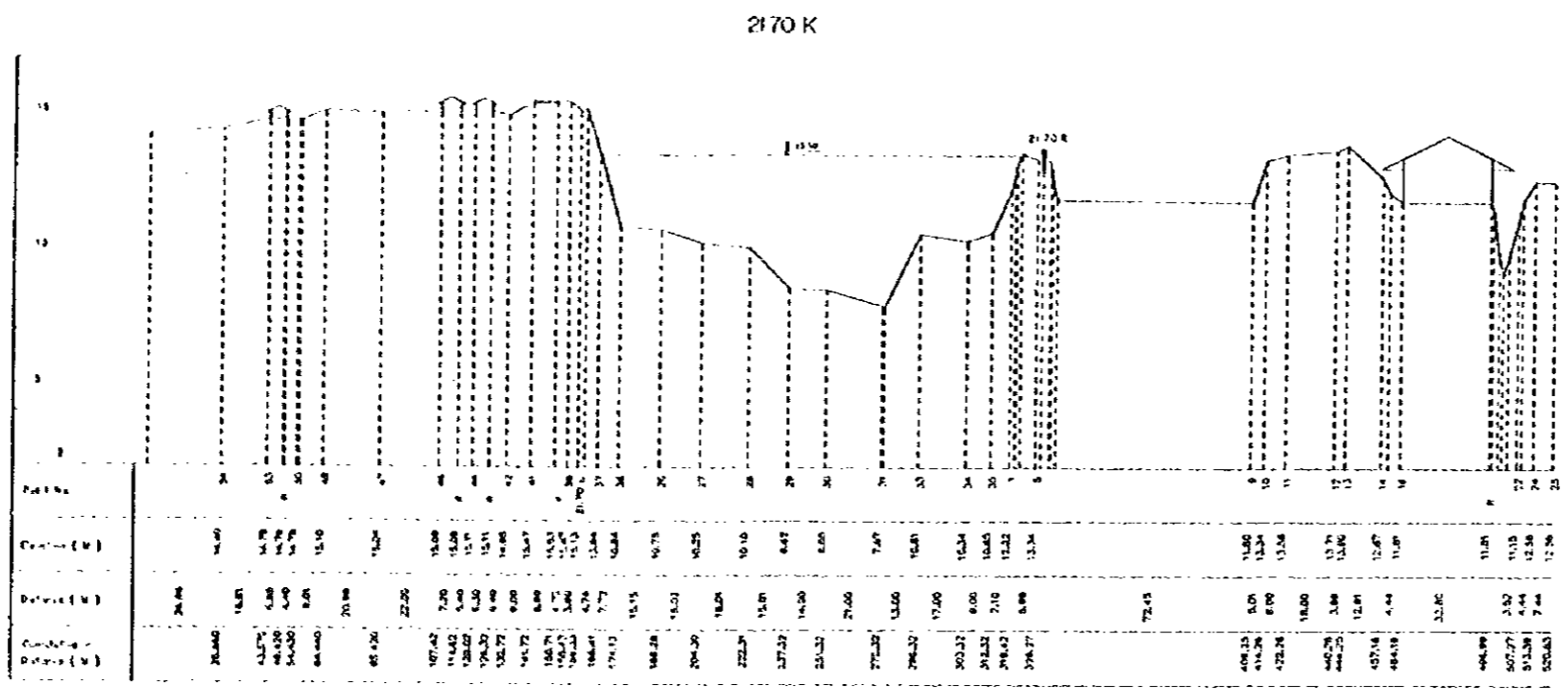


Date : 2.11.04  
Time : 11.00





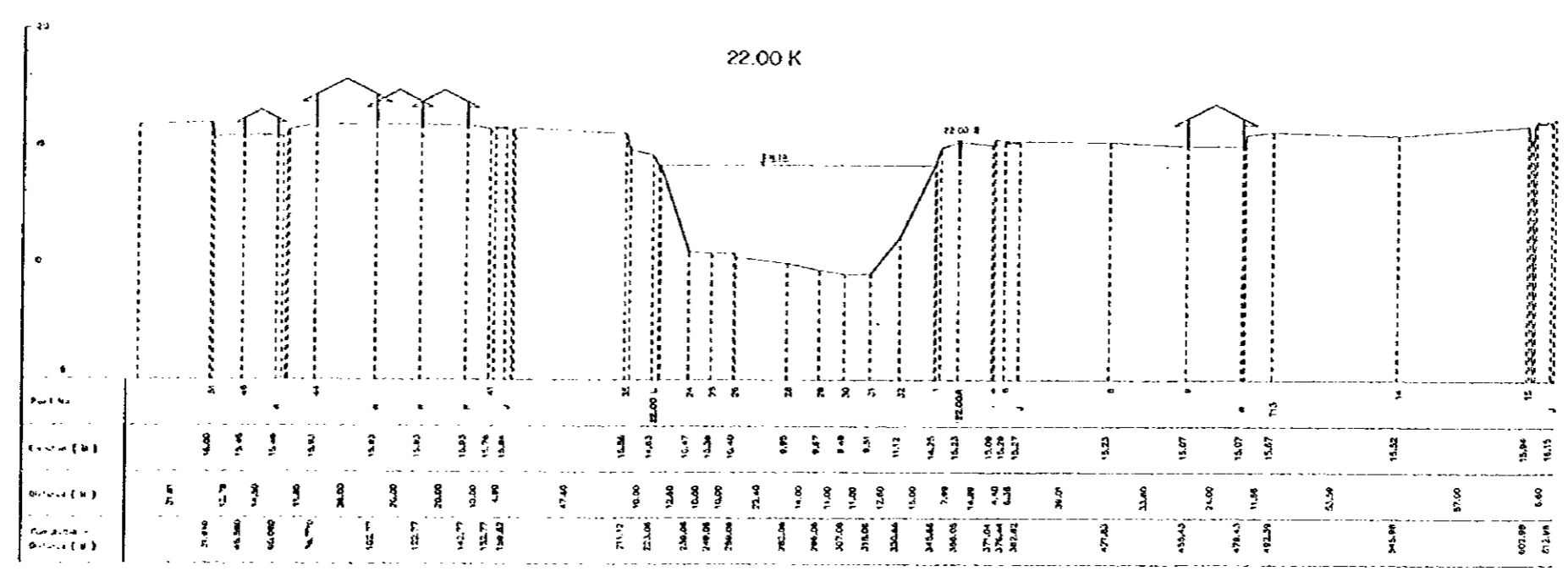
Date: June 24, 66  
Time: 15:26



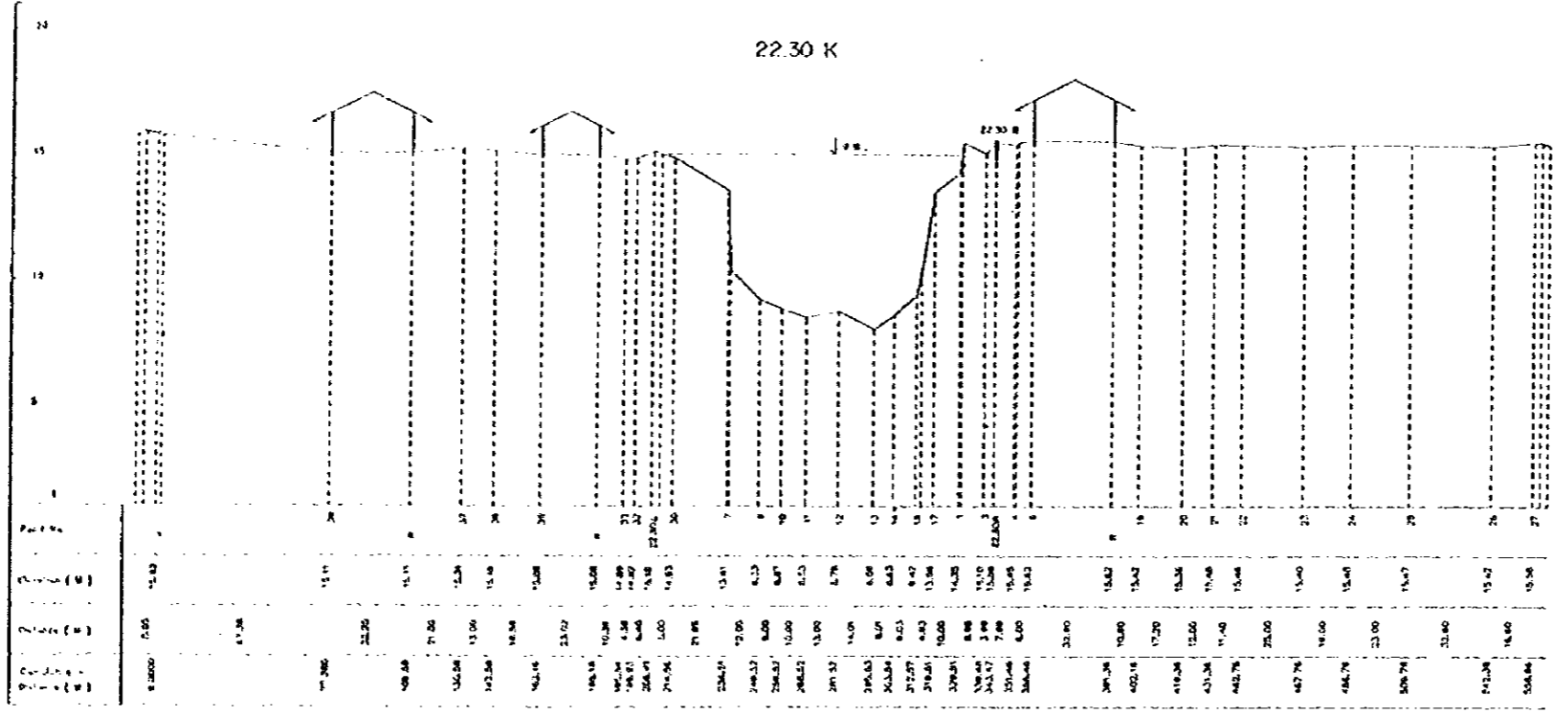
Date: June 24, 66  
Time: 10:00

Note: Drawings based on Mean Sea Level (TTG.)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT		OSADANE RIVER R.P.C. OF DRAWINGS	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK		CROSS SECTION	
RIVER SURVEY		SCALE	
DATE	SECTION	NO.	SHEET NO.
1966	24	1	24 / 25
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATYA	



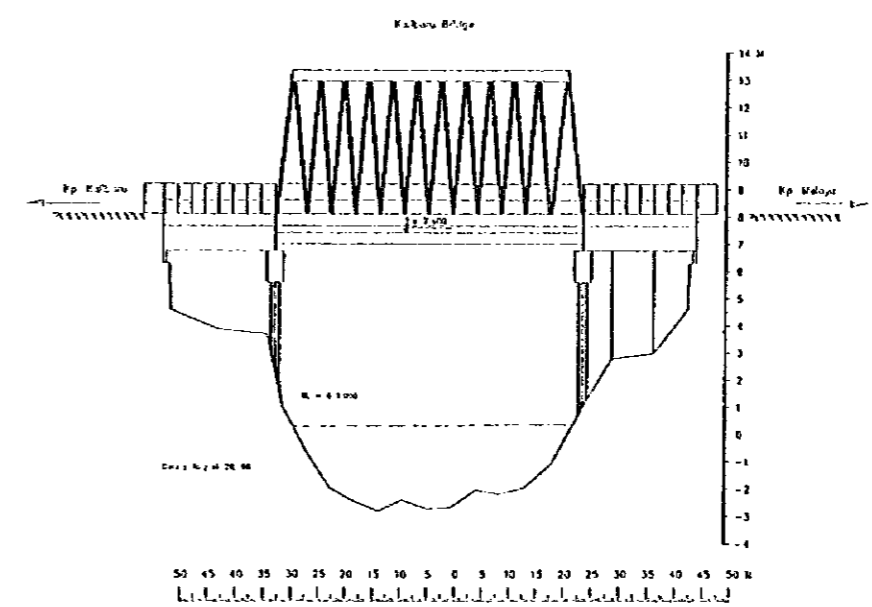
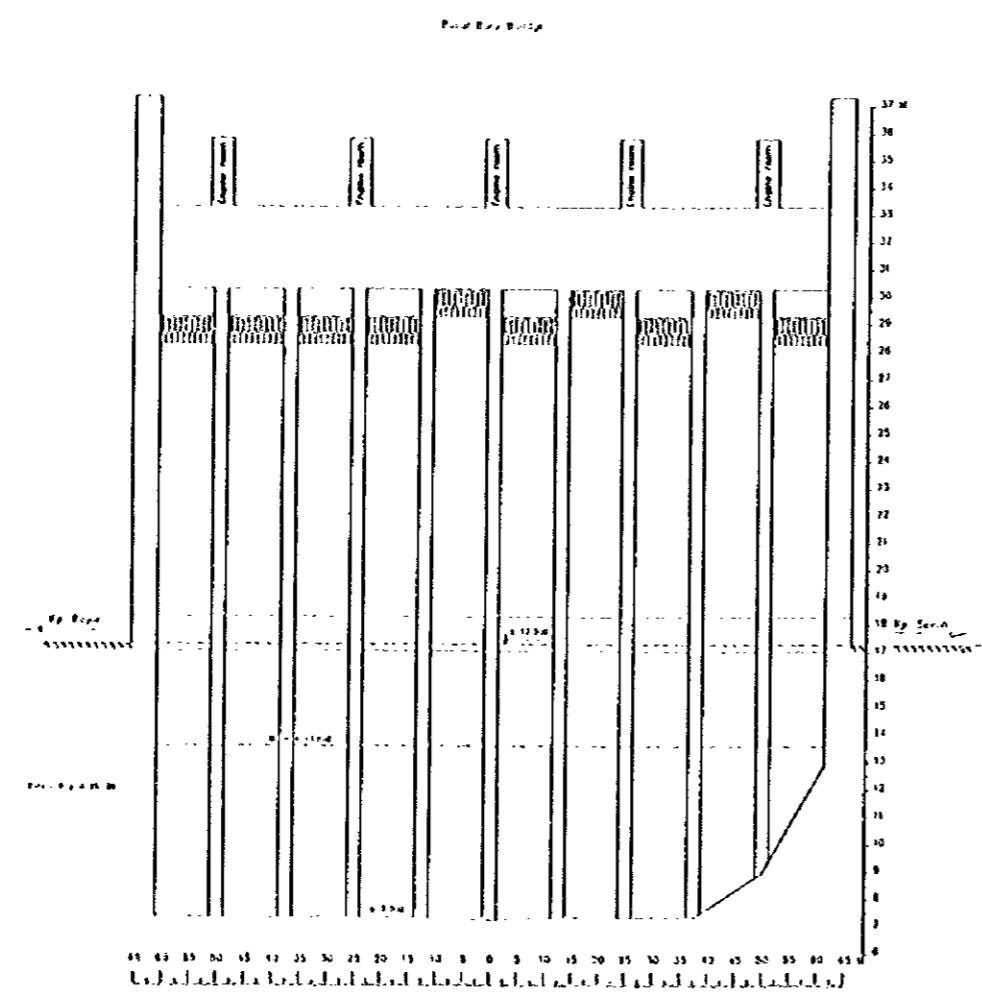
Date: June 14, 98  
Time: 14:10



Date: June 14, 98  
Time: 13:00

Note: Elevation Based on Mean Sea Level (T.S.)

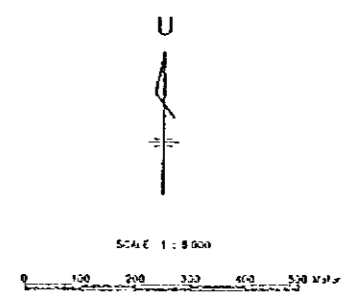
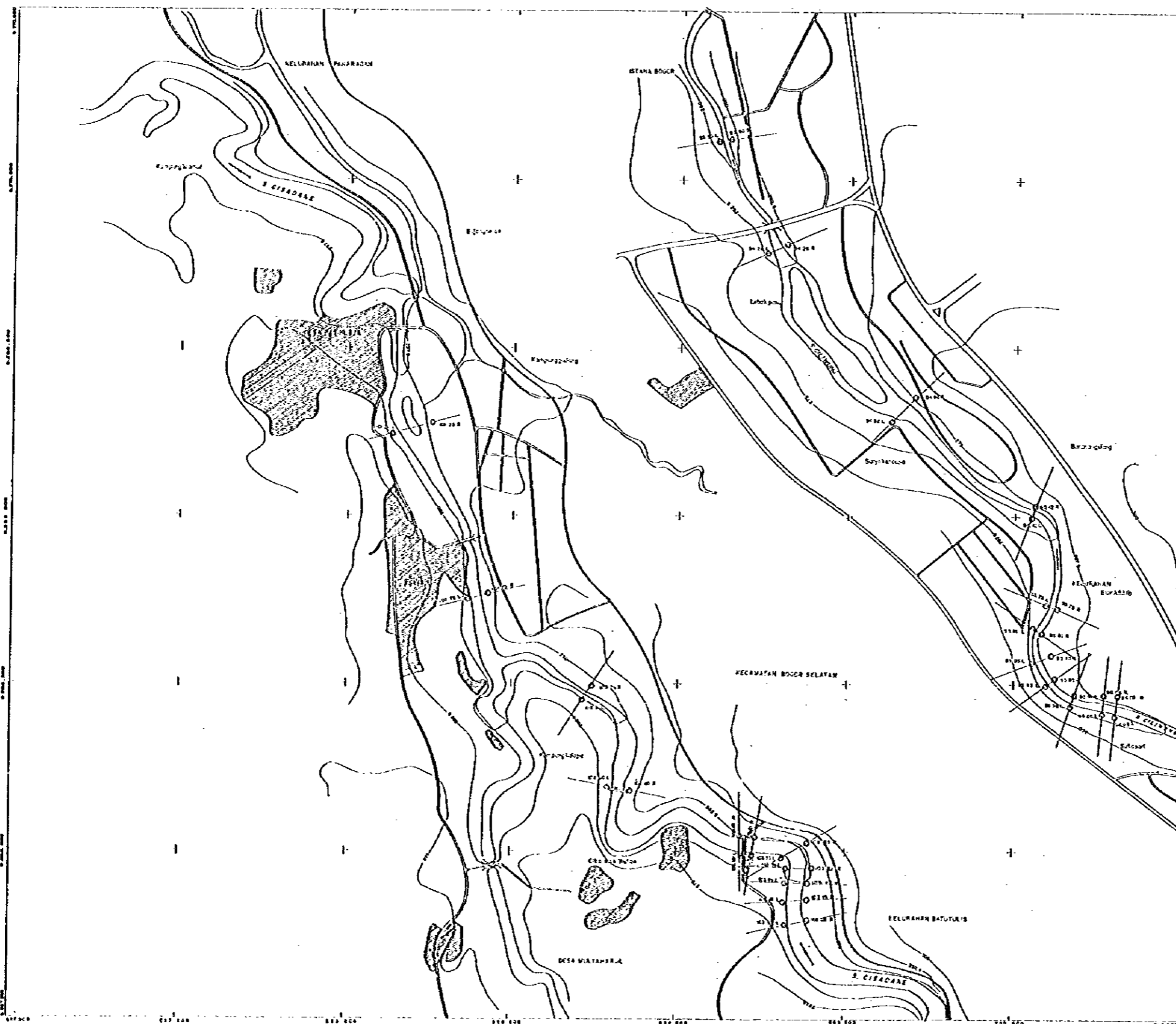
MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTADEK			
RIVER SURVEY		CISADANE RIVER	
		RILE OF CROSS-SECTION	
DATE	CHECKED	APPROVED	SCALE
14/06/98	[Signature]	[Signature]	H = 1 : 1,000 V = 1 : 100
JICA		PT. ATLAS DELTASATYA	



Scale: Elevation is based on Mean Sea Level (MSL)

MINISTRY OF PUBLIC WORKS				DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
DIRECTORATE OF RIVERS				DIRECTORATE OF RIVERS	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK				DISADANE RIVER	
RIVER SURVEY			BRIDGE AND BARRAGE		
CHECKED		APPROVED		SCALE	DRAWN BY
NAME	POSITION	NAME	POSITION	V = 1 : 100	1 / 1
				H = 1 : 500	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY				PT. ATLAS CILTASATYA	

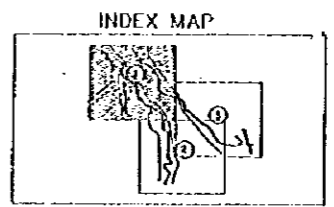
### 3 River Survey of Ciliwung and Cisadane Rivers around Proposed Ciliwung Floodway



LEGEND

▲ 125 Existing Interpolation Point	○ Station
○ 125 GPS Point	—+—+—+ Electric Power Line
▨ 125 Existing Bench Mark	▨▨▨▨ Cutting and Embankment
- 125 Spot Height	▨▨▨▨ Swamp
- 125 Bench Mark	○ Water Tower
○ 125 Existing Point	— — —  Division Boundary
○ 555 Distance Mark	— — —  Division Point
▭ Concrete Building	▭ Paddy Field
▭ House	— — —  Boundary of Vegetation
▭ Mosque	∇ Field
▭ Church	○ Forest
▭ Hospital	∇ Grass
▭ School	○ Water Hole
▭ Market	▨▨▨▨ Slope
▭ Telephone Office	—+—+—+ Fire Canal
▭ Government Office	○ Monument
▭ Hotel	▭ Village
▭ Gasoline Pump	○ Pond, Lake
▭ Pond	∇ Sand
▭ Dam	▨▨▨▨ Land Slide
▭ Bridge	▭ River
▭ Railway	▭ Road
▭ Rotary Bridge	○ Division

Note: Blue map is based on 1:25,000 topographic map by DSS



MINISTRY OF PUBLIC WORKS  
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTARJIK

RIVER SURVEY

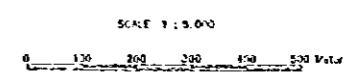
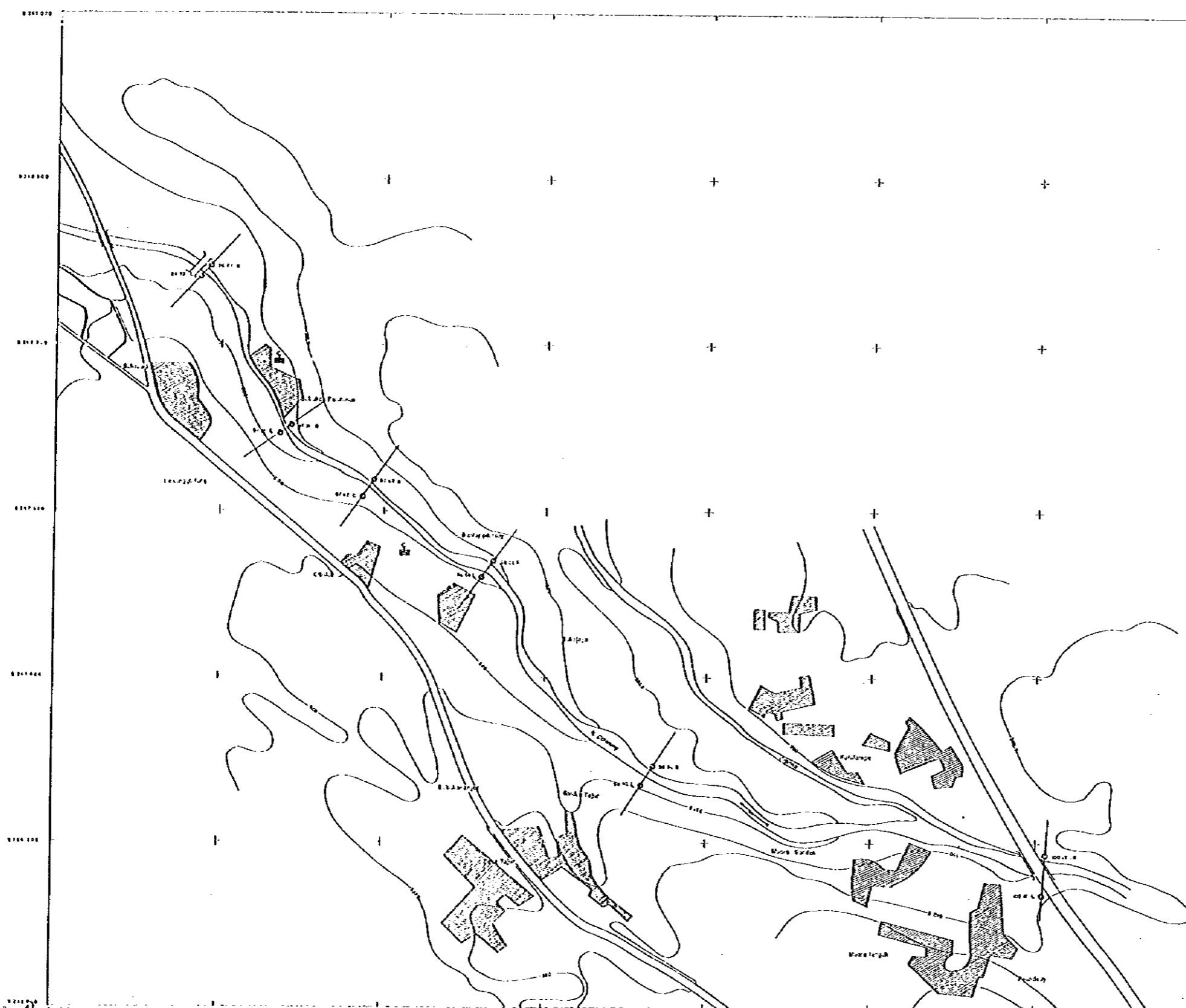
Created By	Approved By	SCALE	SHEET NO.
		1:5,000	1/3

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

PT. ARAS DELTASATYA



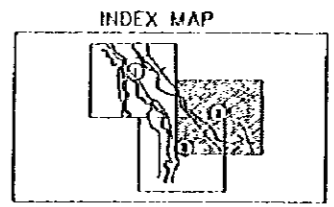




LEGEND

▲ Existing Topographic Point	Station
○ 123 GPS Point	Electric Power Line
⊖ Existing Bench Mark	Cutting and Embankment
+ 1.2 Spot Height	Scarp
+ 1.23 Direct leveling	Muslim grave
○ 0.0 Existing Point	Christian cemetery
○ 555 Reference Mark	Chinese grave
□ Concrete Building	Paddy field
○ House	Boundary of vegetation
⊖ Mosque	Field
⊖ Church	Forest
⊖ Hospital	Grass
⊖ School	Mulch hole
⊖ Market	Sluice
⊖ Telephone Office	Eye Canal
⊖ Government Office	Maintenance
⊖ Hotel	Village
⊖ Gas/Water Pump	Park, etc.
⊖ Road	Sand
⊖ Path	Laid Site
⊖ Bridge	River
⊖ Railway	R. Right
⊖ Railway Bridge	R. Direction

Note: Base map is based on 1:25,000 topographic map in 1959



MINISTRY OF PUBLIC WORKS  
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

THE STUDY ON COMPREHENSIVE RIVER  
WATER MANAGEMENT PLAN IN JABOTABEK

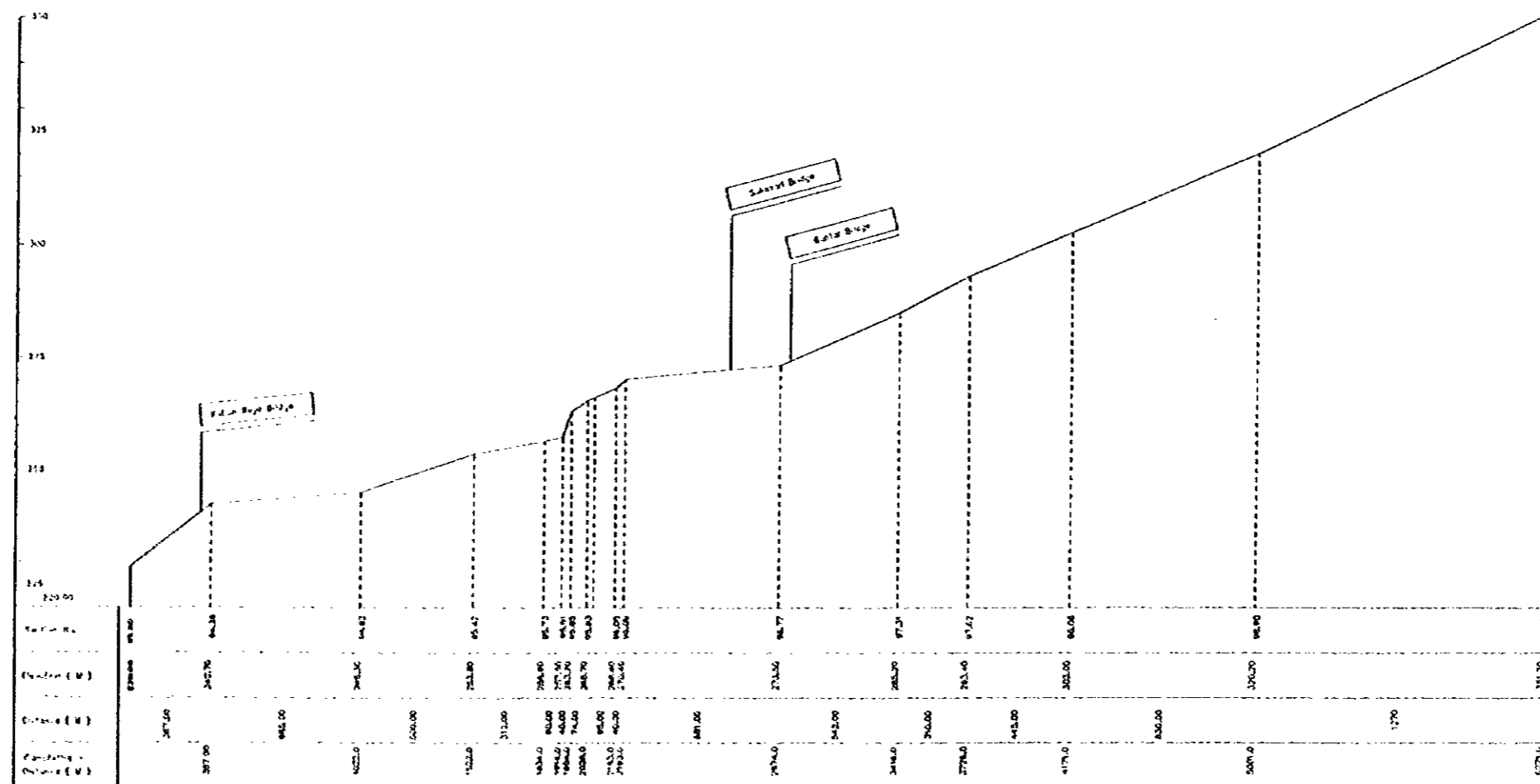
RIVER SURVEY

CRITICAL FLOODING LOCATION

Checked by	Approved by	SCALE	SHEET NO.
		1 : 5,000	3/3

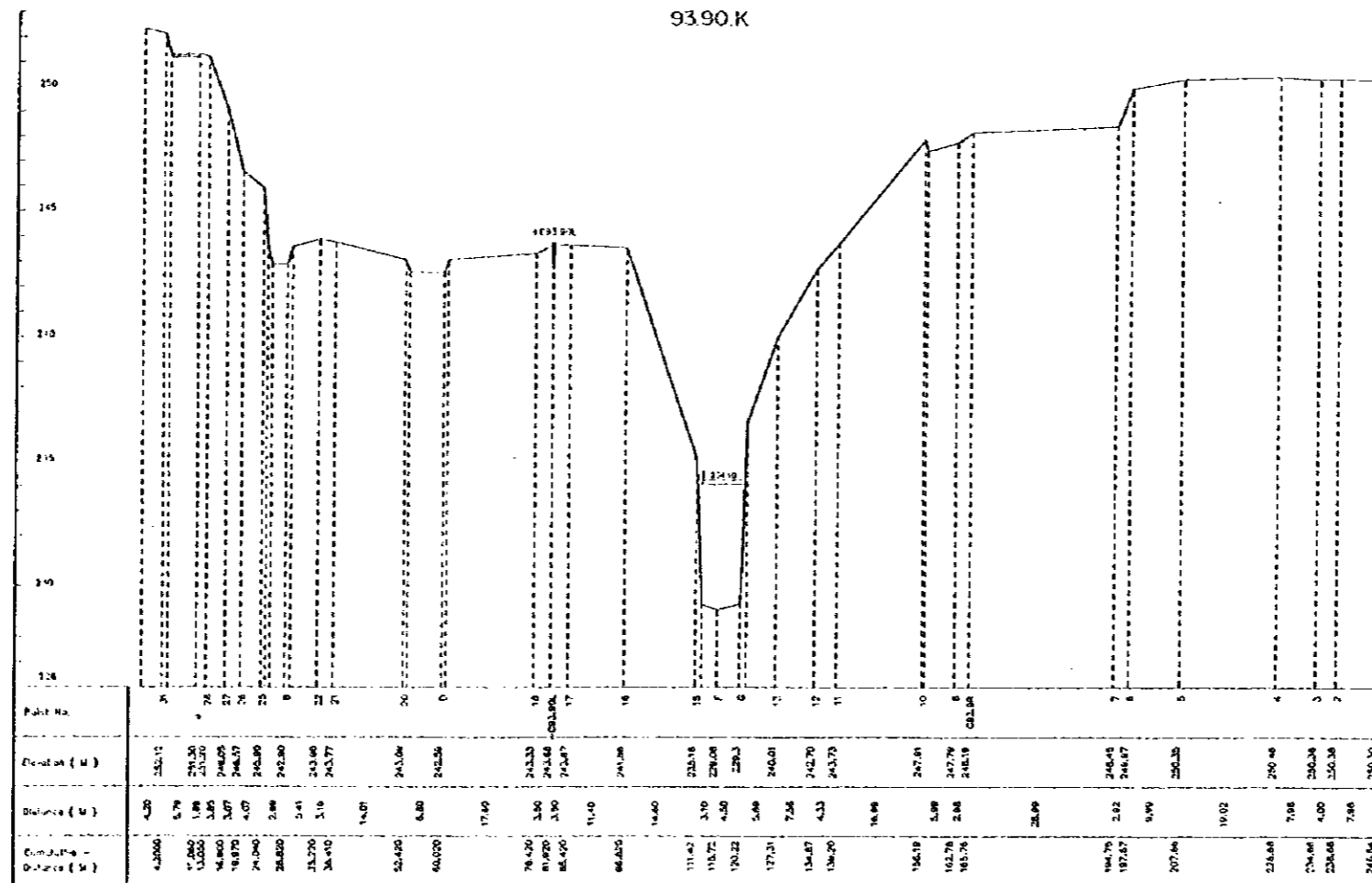
JICA JAPAN INTERNATIONAL COOPERATION AGENCY

PT. ARAS CILITSAIYA



Note: Elevation is based on Mean Sea Level (110)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CILIMING RIVER	
		SITE OF DESIGN	
		LONGITUDINAL PROFILE	
DESIGNED	APPROVED	SCALE	SHEET NO.
Name	Signature	H = 1 : 10 000	1 / 1
Date		V = 1 : 500	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PI. AWAS DELTASATYA	

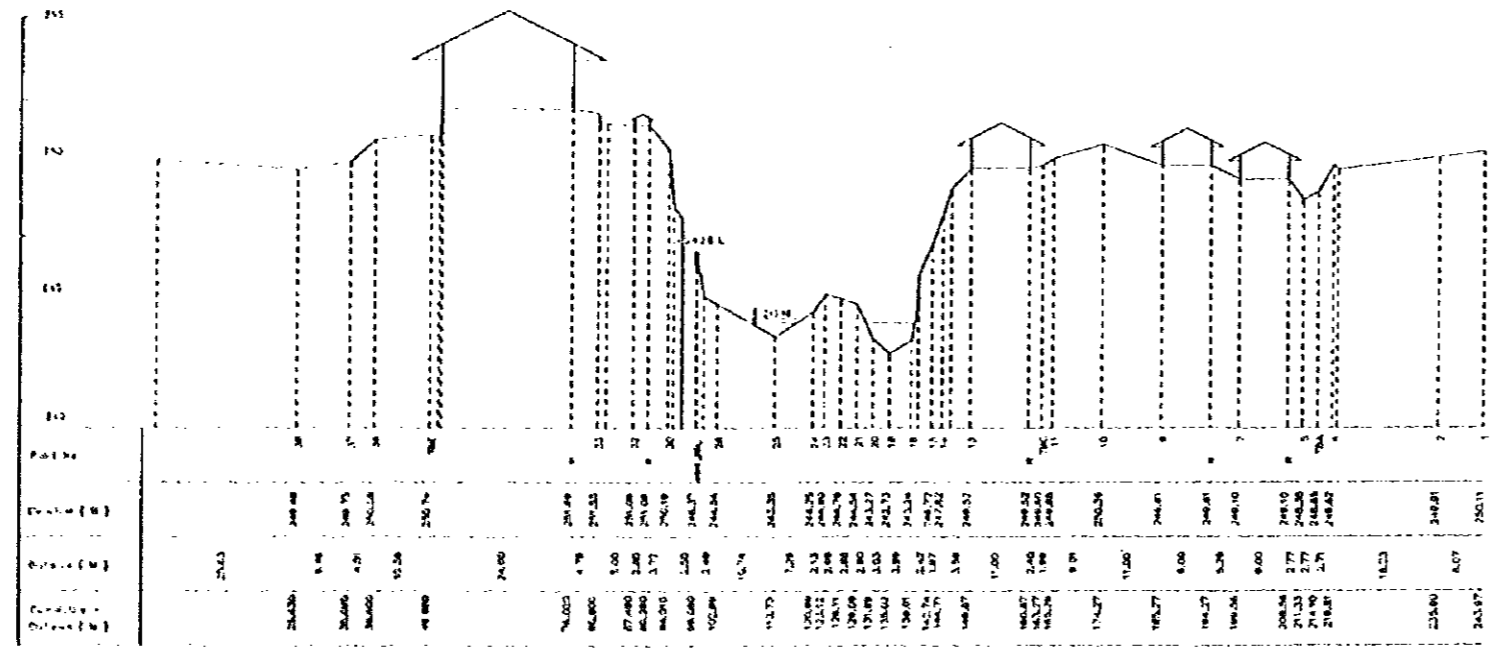


Note : Elevation based on Mean Sea Level (TTC)

Date : 31.01.88  
Time : 13.10

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK	
RIVER SURVEY	
UPPER CIMWUNG RIVER	
CROSS SECTION	
CHECKED	APPROVED
NAME	NAME
DATE	DATE
SCALE	SHEET No.
H = 1 : 500	1/17
V = 1 : 100	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	PT. ATLAS DELEASATYA

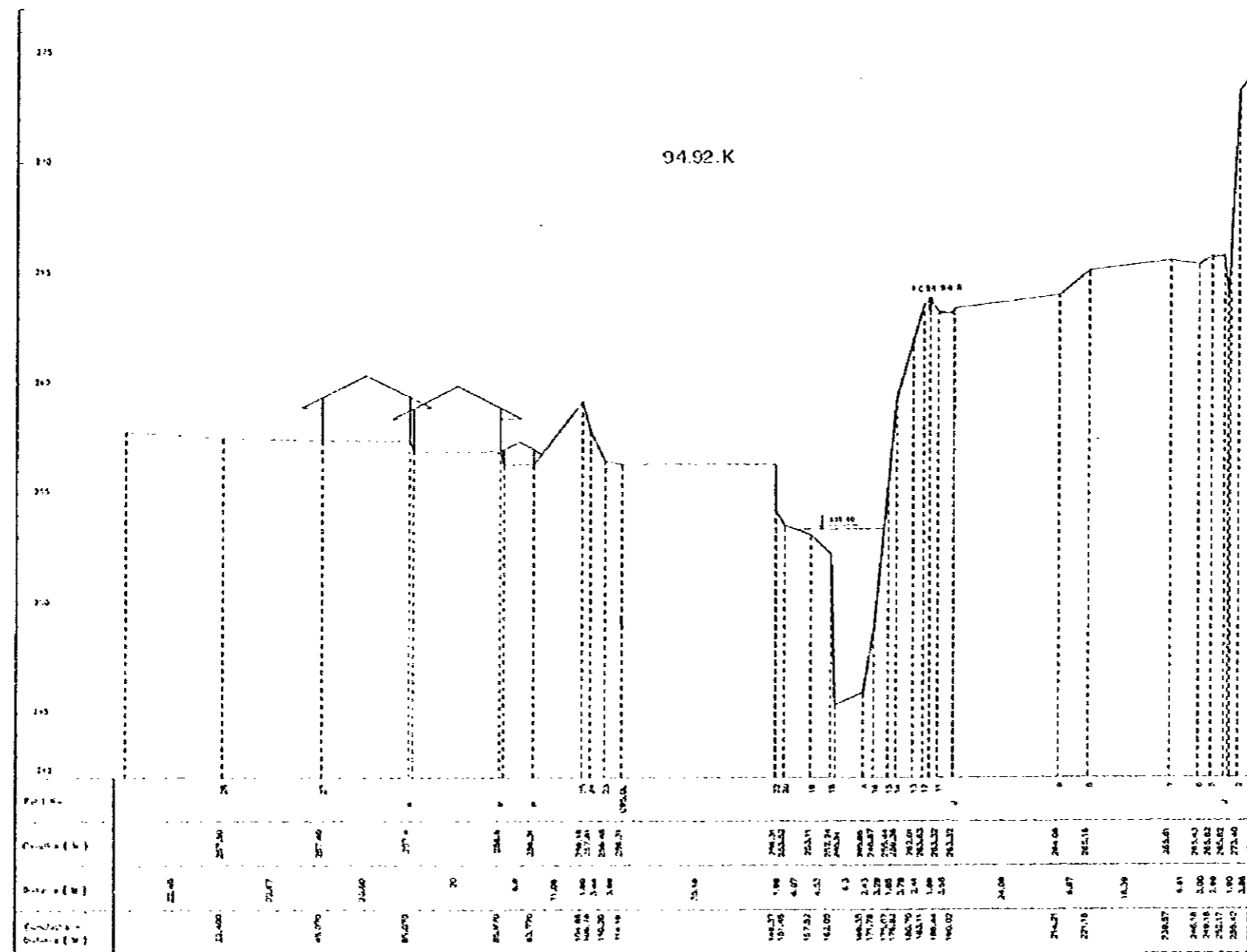
9426.K



Date: Apr 28, 58  
No: 0935

Note: Elevation based on Mean Sea Level (T.T.S.)

MINISTRY OF PUBLIC WORKS		DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CILIWUNG RIVER	
		SITE OF DRAWING	
		CROSS SECTION	
NAME	REGISTER	APPROVED	SCALE
SURVEY	NO. 100	DATE	H = 1 : 500
DATE			V = 1 : 100
JICA		PI. AHAS DELTASATYA	

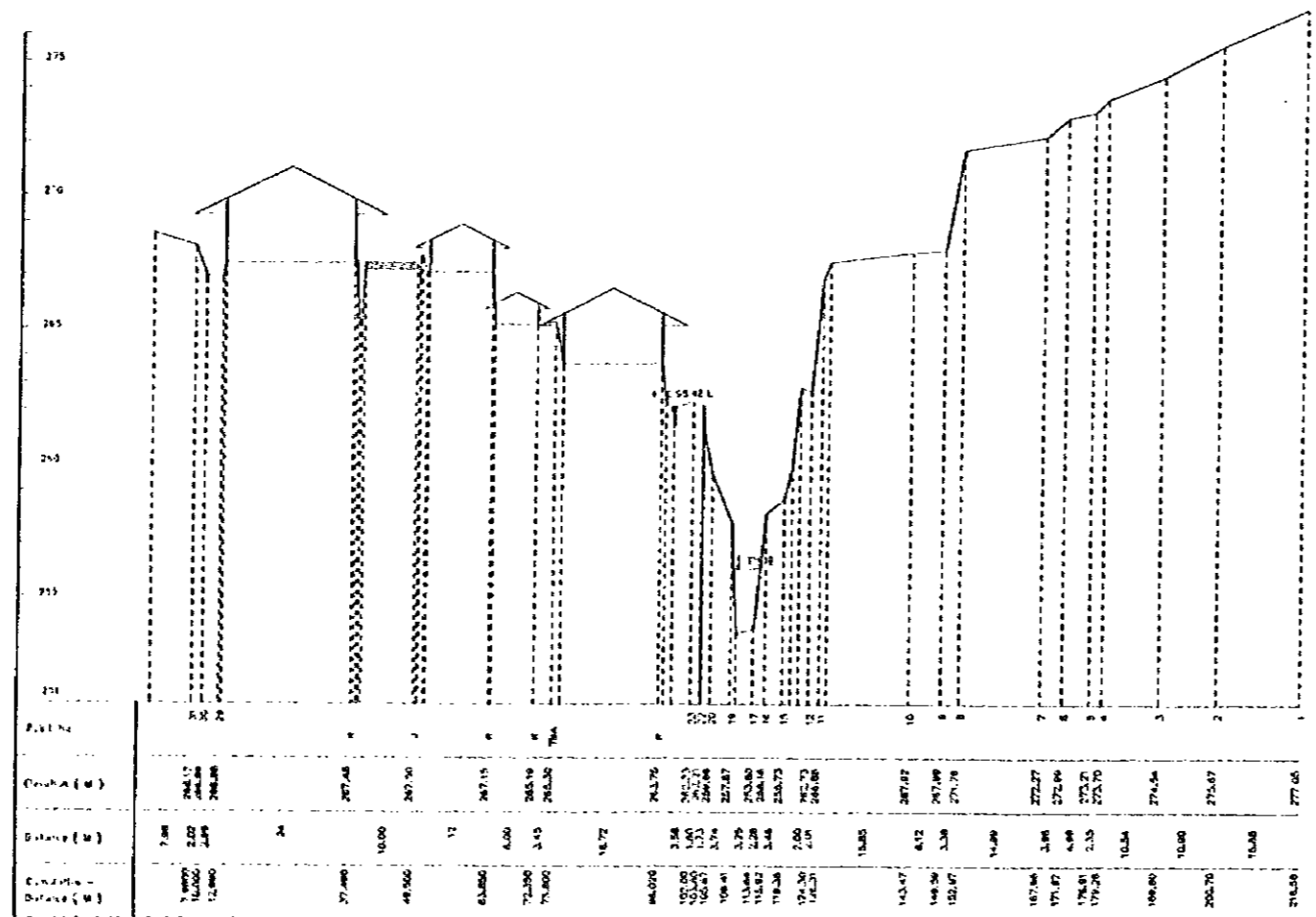


Note: Elevation based on Mean Sea Level (MSL)

Date: Apr 22, 2011  
No.: 0040

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CILIWUNG RIVER SITE OF GR-9105	
CROSS SECTION			
NAME	GROUP	APPROVED	SCALE
SIGNATURE			H = 1 : 500
DATE			V = 1 : 150
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS OULIATAMA	

95.42 K

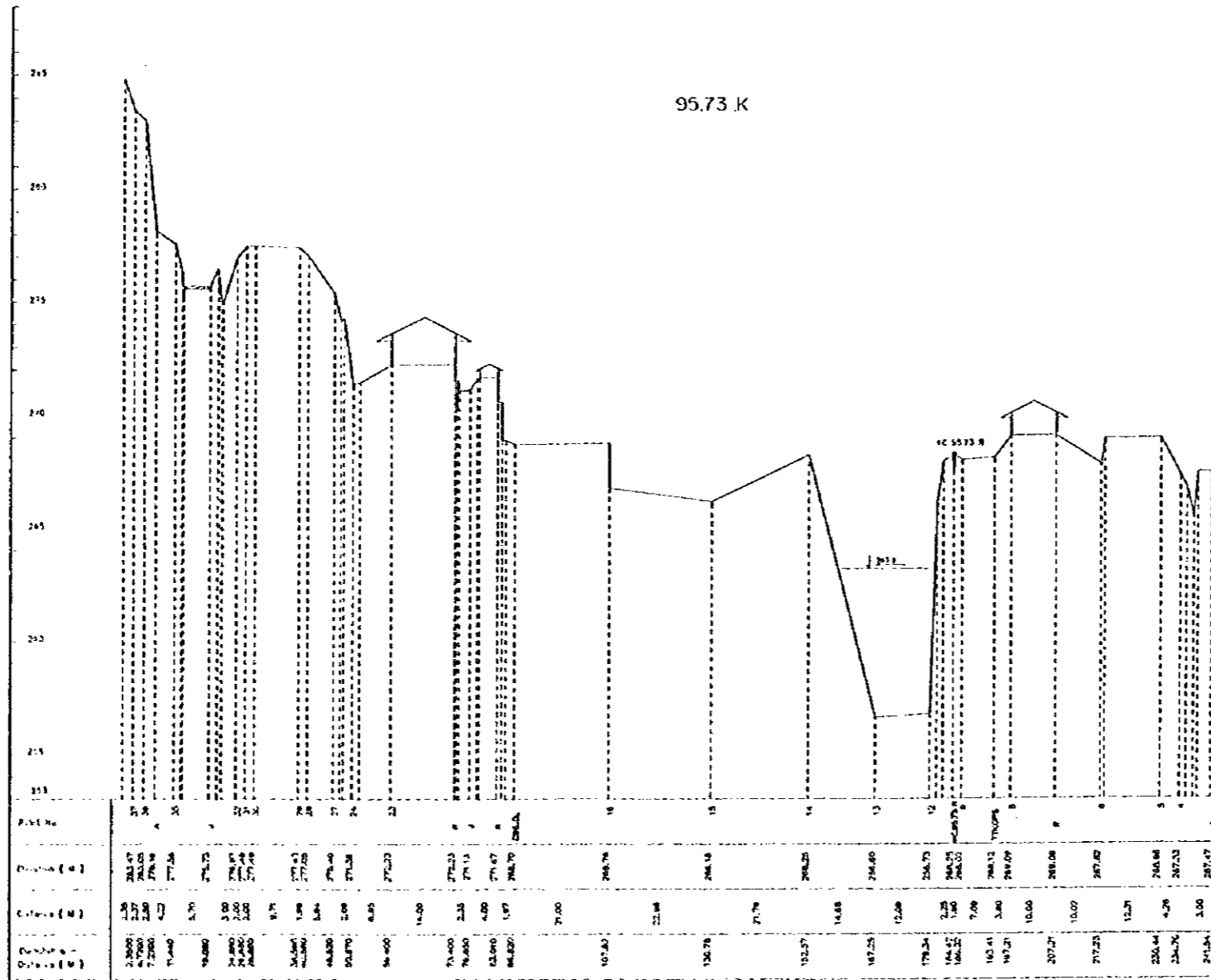


Note: Elevation based on Mean Sea Level (MSL)

Date: Apr 25, 98  
Time: 15:00

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CILIMUNG RIVER REACH OF GRAYONG	
		CROSS SECTION	
	CHECKED	APPROVED	SCALE
NAME	S. W. H.	S. W. H.	H = 1 : 500
SIGNATURE	<i>[Signature]</i>	<i>[Signature]</i>	V = 1 : 100
DATE			4/17
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			PI. ATLAS OELTASATTA

95.73 K



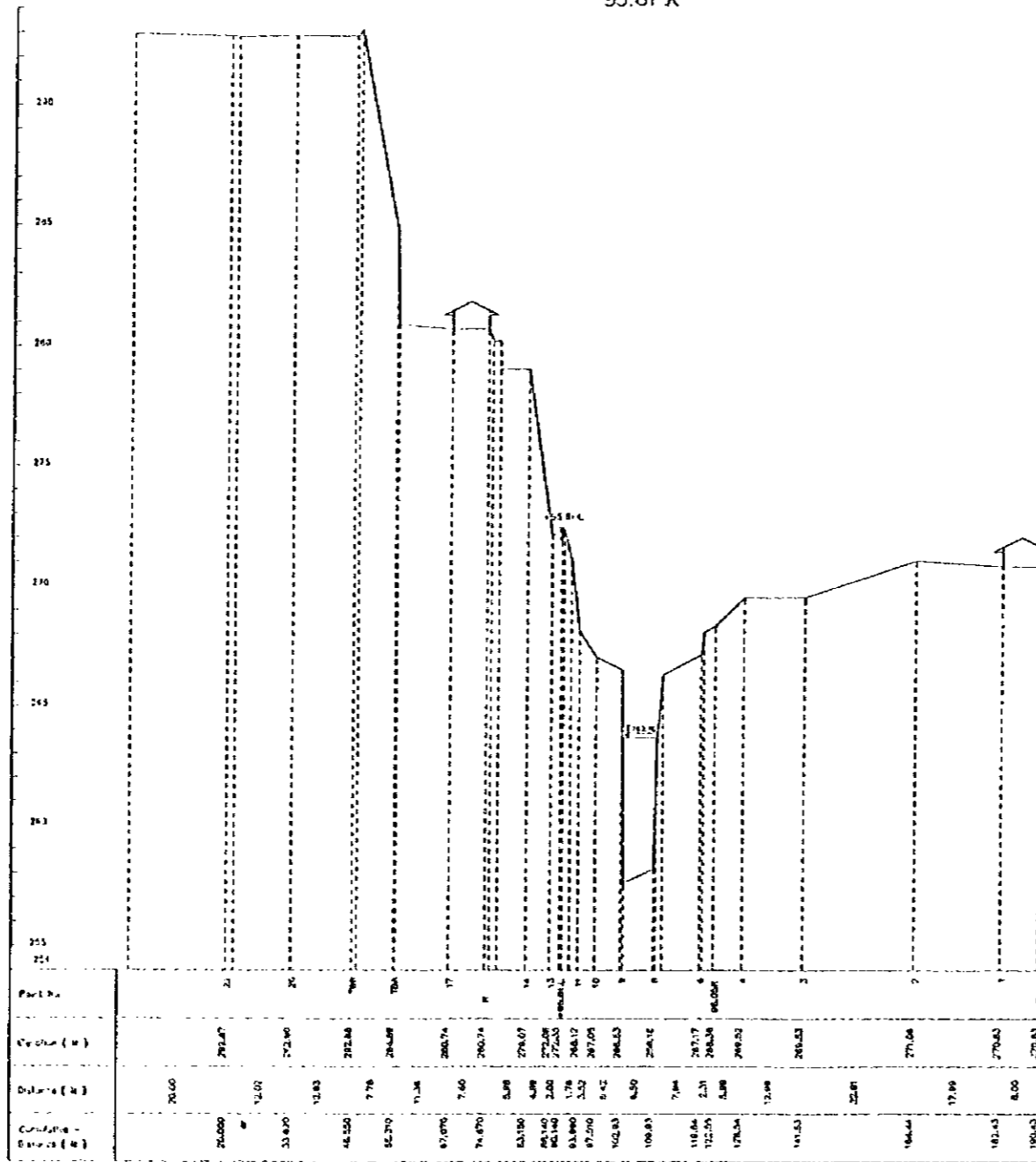
Note: Elevation based on Mean Sea Level (TTG)

Date: Apr 24, 98  
Time: 13:00

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK	
RIVER SURVEY	
UPPER CILIMUNG RIVER RICE OF LEANINGS CROSS SECTION	
NAME SQUARE DATE	SCALE H = 1 : 500 V = 1 : 100
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	PT. ATLAS DELTASATTA



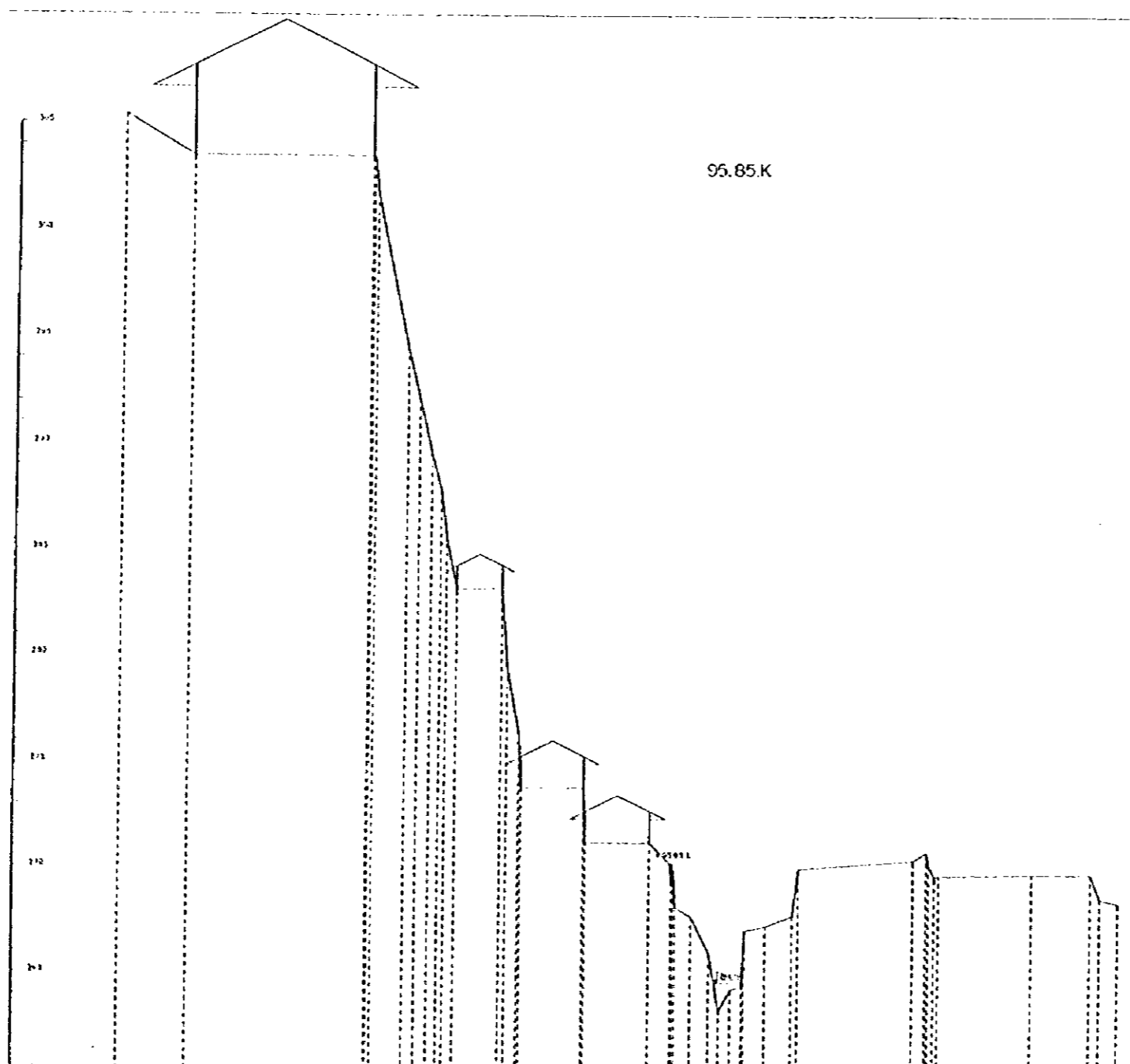
95.81 K



Note: Elevation based on Mean Sea Level (TTC)

Date: June 27, 58  
Sheet: 13/10

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK	
RIVER SURVEY	UPPER CILIJANG RIVER TITLE OF DRAWING CROSS SECTION
CHECKED	APPROVED
DATE	SCALE
SIGNATURE	H = 1 : 500 V = 1 : 100
DATE	SHEET NO. 6/7
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	PT. ATAS OELTASATYA

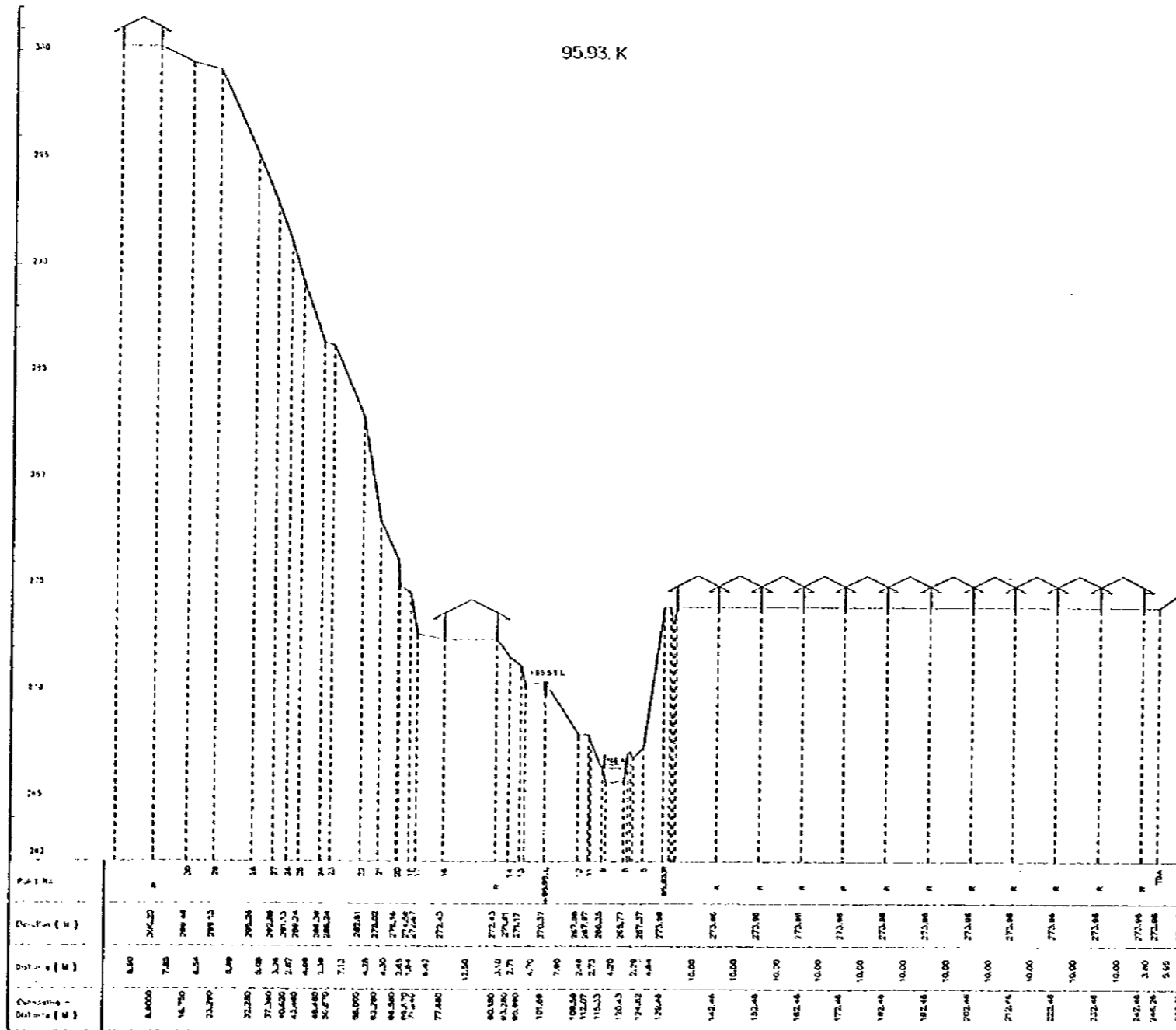


Station	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Water Level (m)	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	31.00	31.10	31.20	31.30	31.40	31.50
Channel Bed (m)	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	30.00	30.10	30.20	30.30	30.40	30.50
Channel Width (m)	10.00	8.00	6.00	4.00	3.00	2.50	2.00	1.50	1.00	0.80	0.70	0.60	0.50	0.40	0.30	0.20

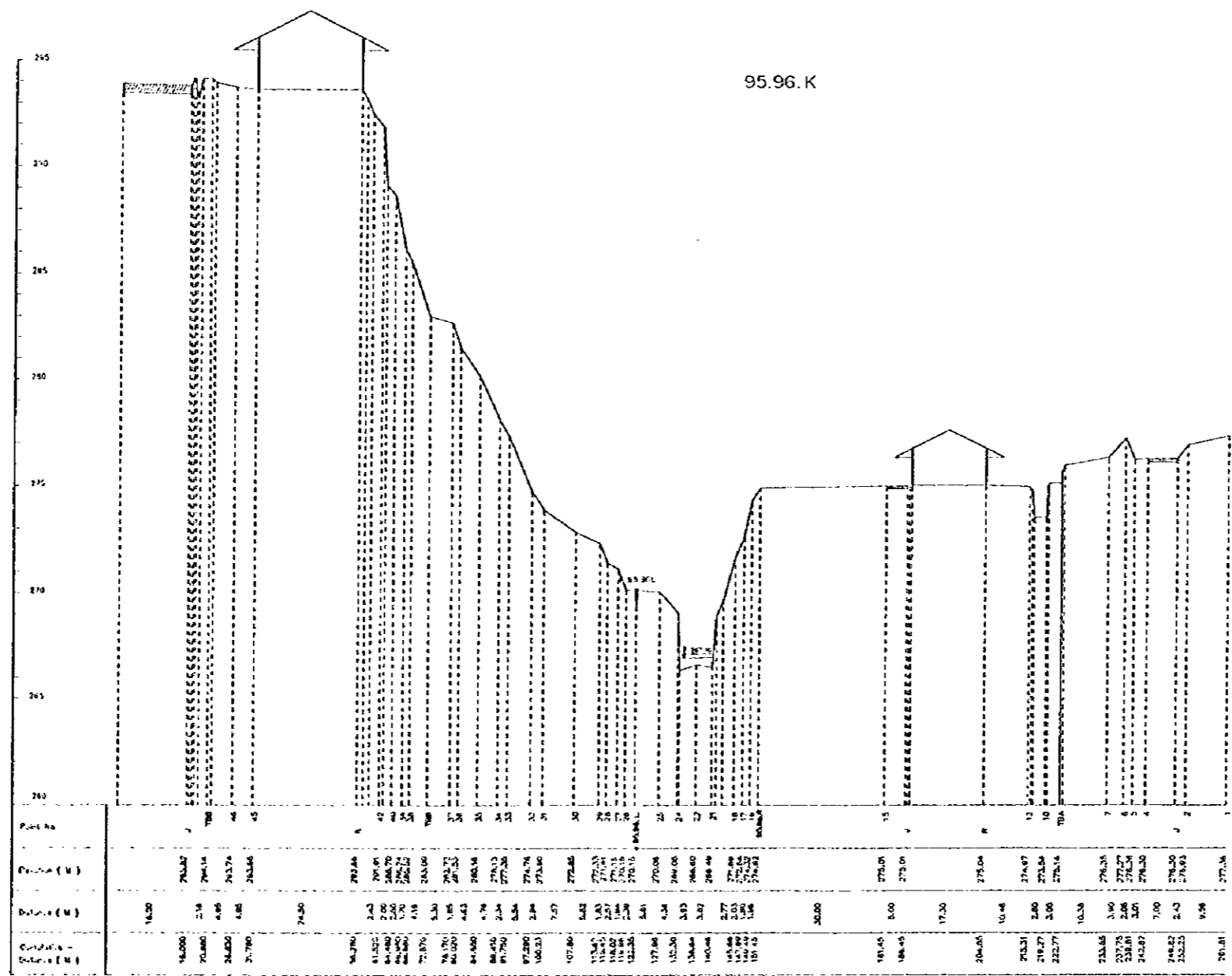
Scale: 1:500  
Date: June 28, 86  
Total: 15.00

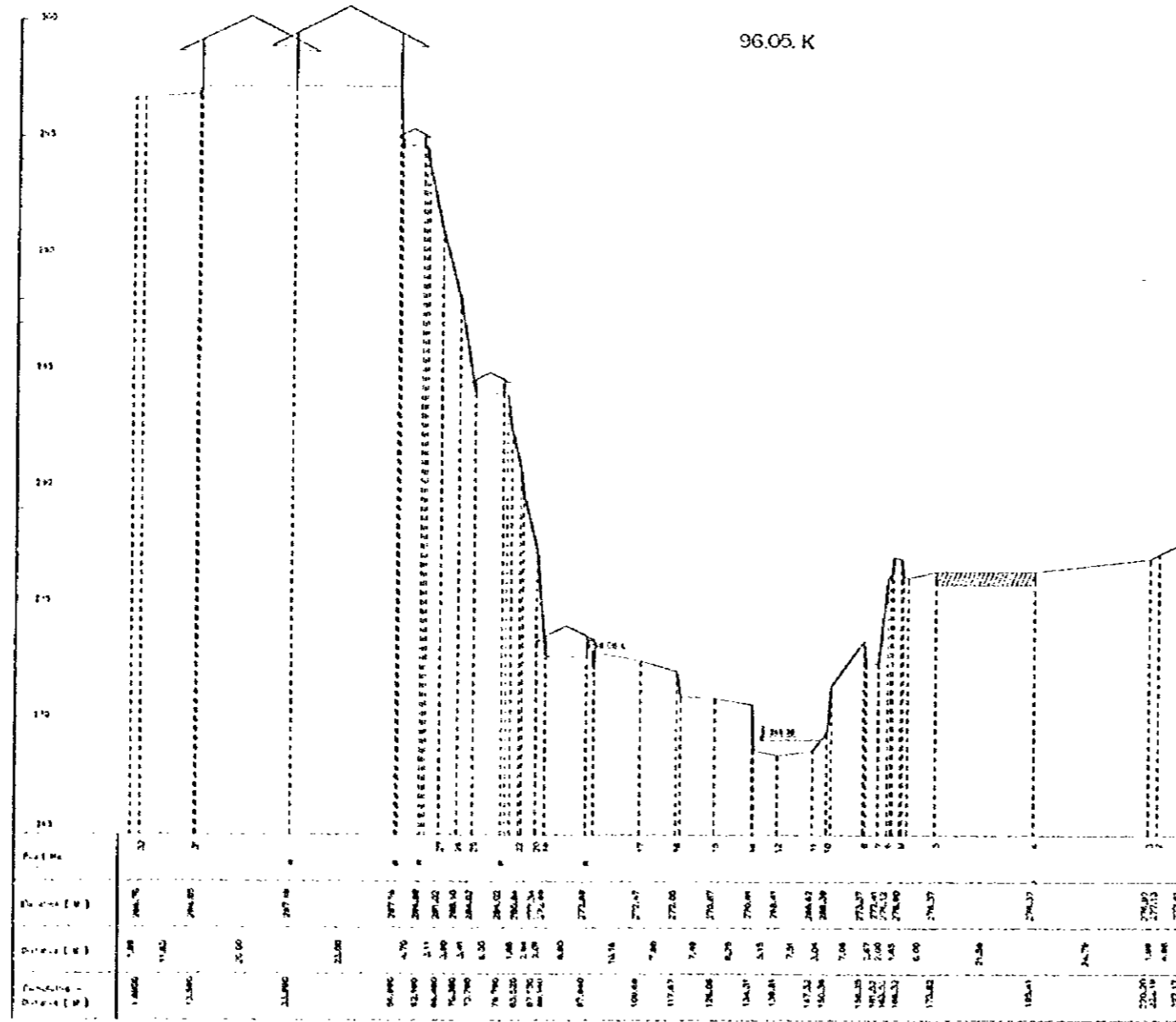
Note: Elevation based on Mean Sea Level (MSL)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CILIWUNG RIVER LINE OF DRAWING	
CROSS SECTION		SECTION NO.	
NO. OF	DATE	SCALE	DATE
NO. OF	DATE	SCALE	DATE
NO. OF	DATE	SCALE	DATE
NO. OF	DATE	SCALE	DATE
JICA		PT. ARAS DELTASATYA	

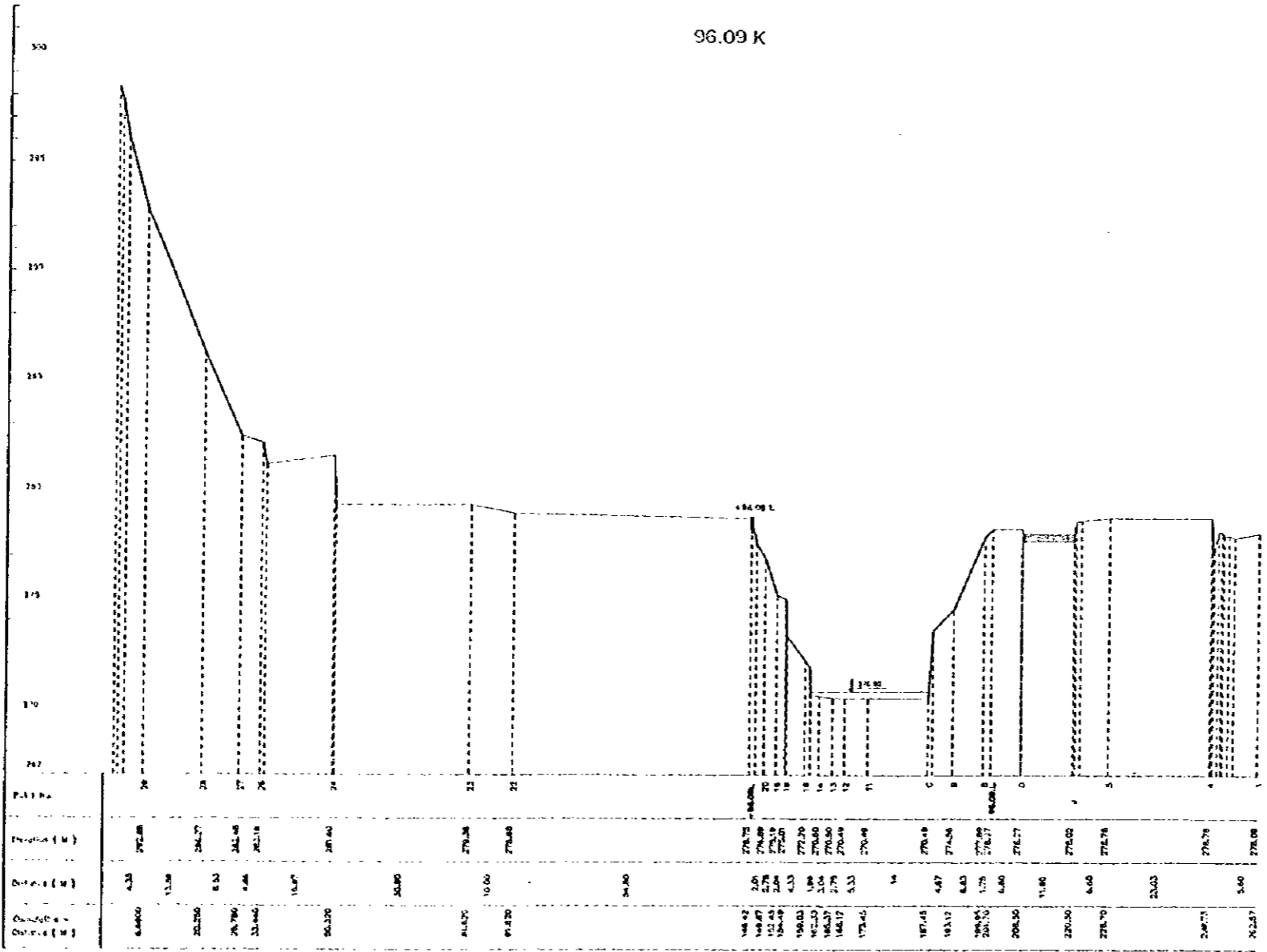


Note: Elevation based on Mean Sea Level (MSL)





96.09 K

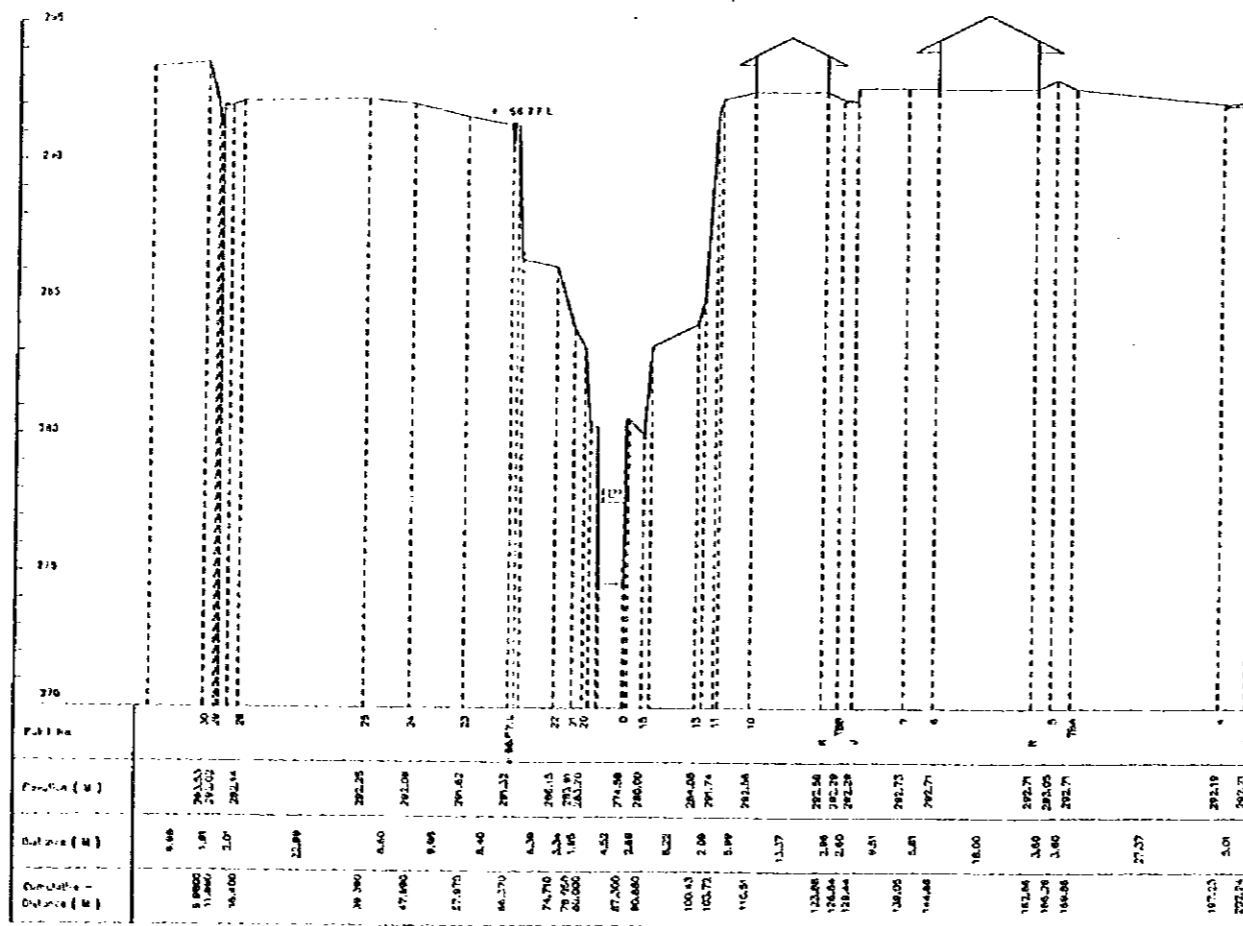


Note: Elevation based on Mean Sea Level (1976)

Date: June 27, 98  
Scale: 1:500

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CILWANG RIVER SITE OF DAMS	
CROSS SECTION		SECTION 1	
DATE	DRAWN	APPROVED	SCALE
11/17			H = 1 : 500 V = 1 : 100
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATAS BELTASAYA	

96.77.K

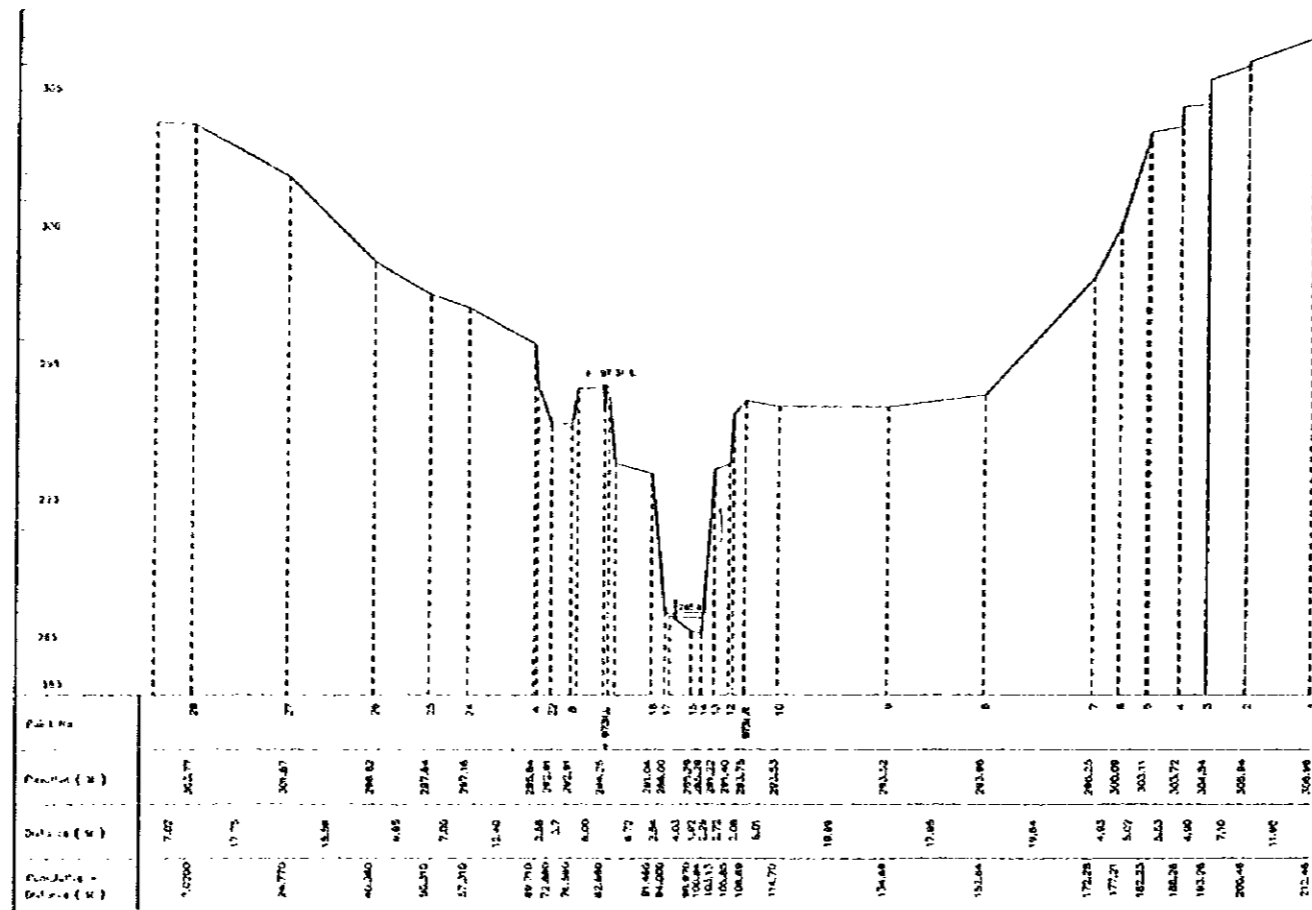


Note: Elevation based on Mean Sea Level (TIGL)

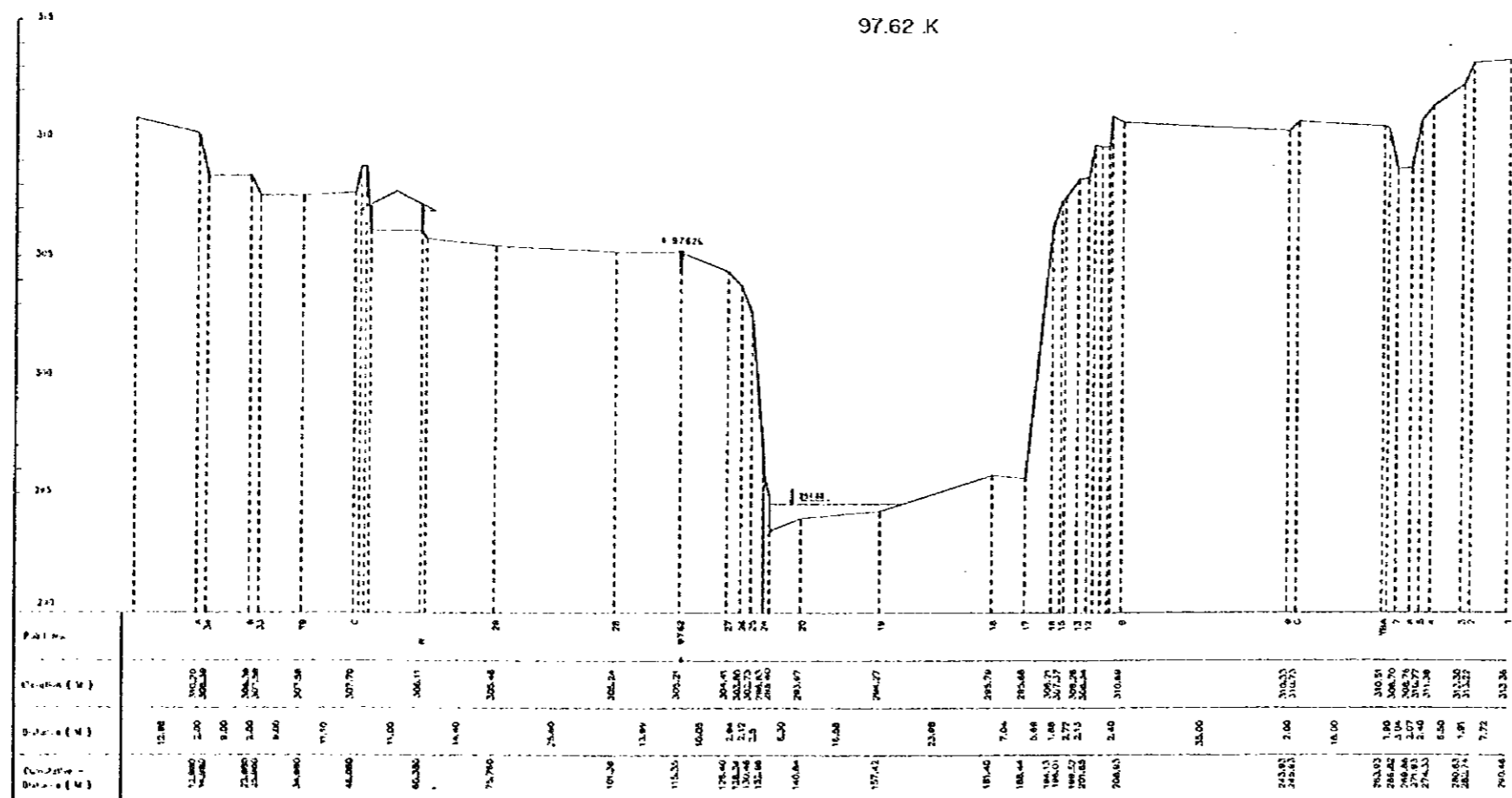
Date: June 30, '86  
Time: 10:00

MINISTRY OF PUBLIC WORKS				DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK					
RIVER SURVEY				UPPER CILIWUNG RIVER	
				SHEET NO. 1	
				CROSS SECTION	
CHECKED		APPROVED		SCALE	SHEET NO.
NAME	DATE	NAME	DATE	H = 1 : 500	12/17
SIGNATURE		SIGNATURE		V = 1 : 100	
DATE		DATE			
JICA JAPAN INTERNATIONAL COOPERATION AGENCY				PT. ATLAS ULTIASATYA	

9731. K





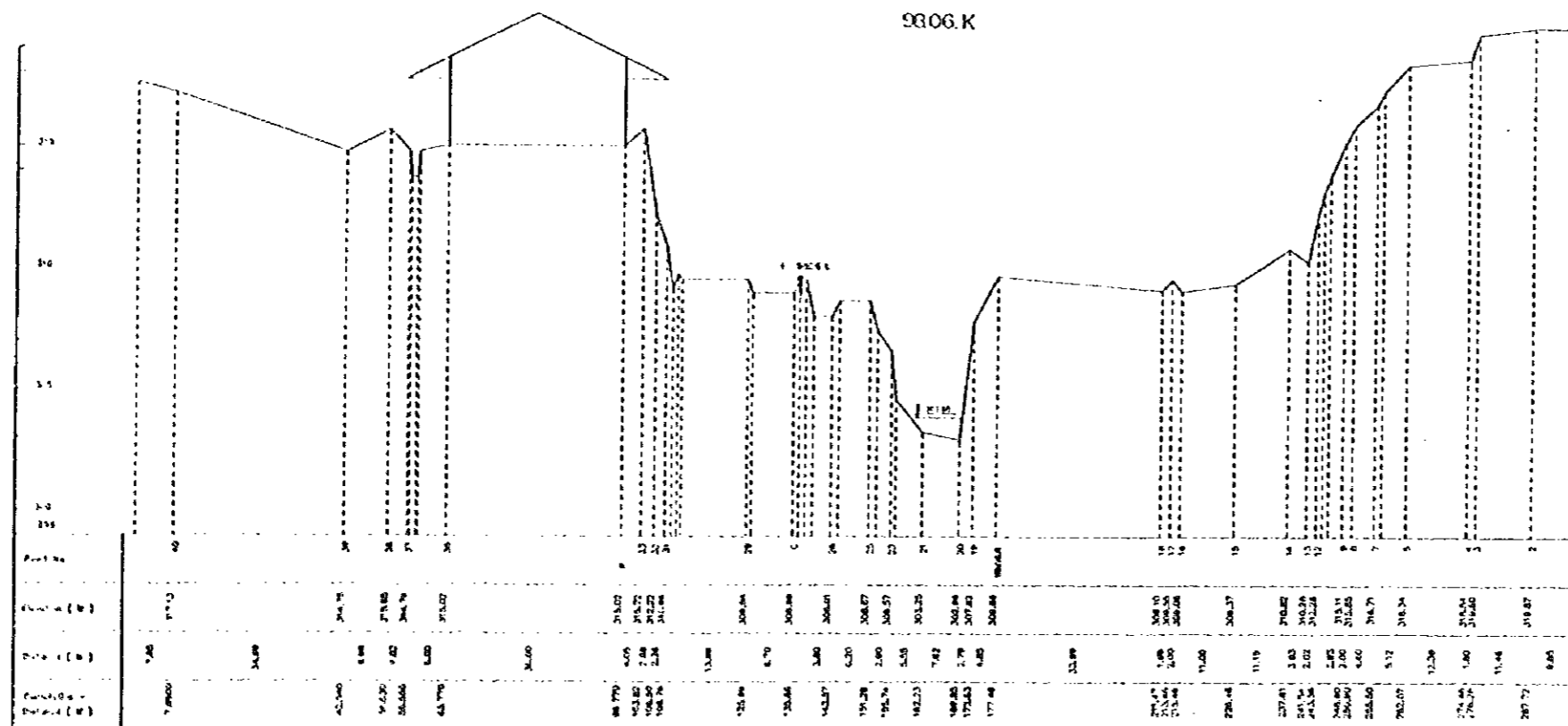


97.62 K

Date: Apr 30 58  
Time: 13:02

Note: Elevation Based on Mean Sea Level (TIGL)

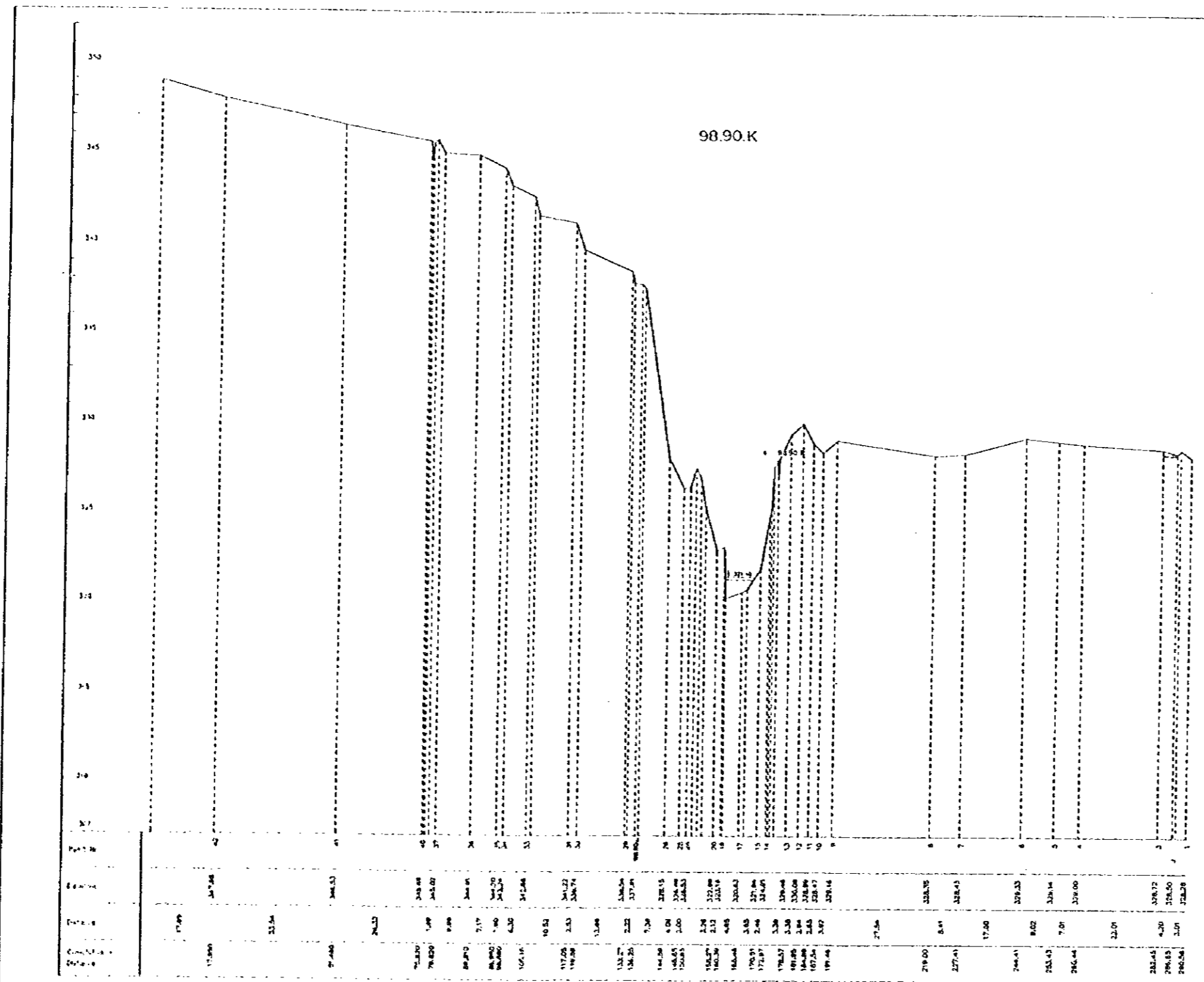
MINISTRY OF PUBLIC WORKS		DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CILIWUNG RIVER	
		LINE OF STATIONS	
		CROSS SECTION	
DATE	CHECKED	APPROVED	SCALE
SIGNATURE	Signature	Signature	H = 1 : 500
DATE			V = 1 : 100
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY	P.T. ATLAS DELTASATYA	



Date: June 30, 88  
Time: 09:35

Note: Elevation based on Mean Sea Level (MSL)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CILIMUNG RIVER DATE OF SURVEY	
CROSS SECTION		SCALE	
DATE	DESIGNED	APPROVED	SCALE
SIGNATURE	DATE	DATE	H = 1 : 500 V = 1 : 100
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PE. ATLAS DEKLASATYA	



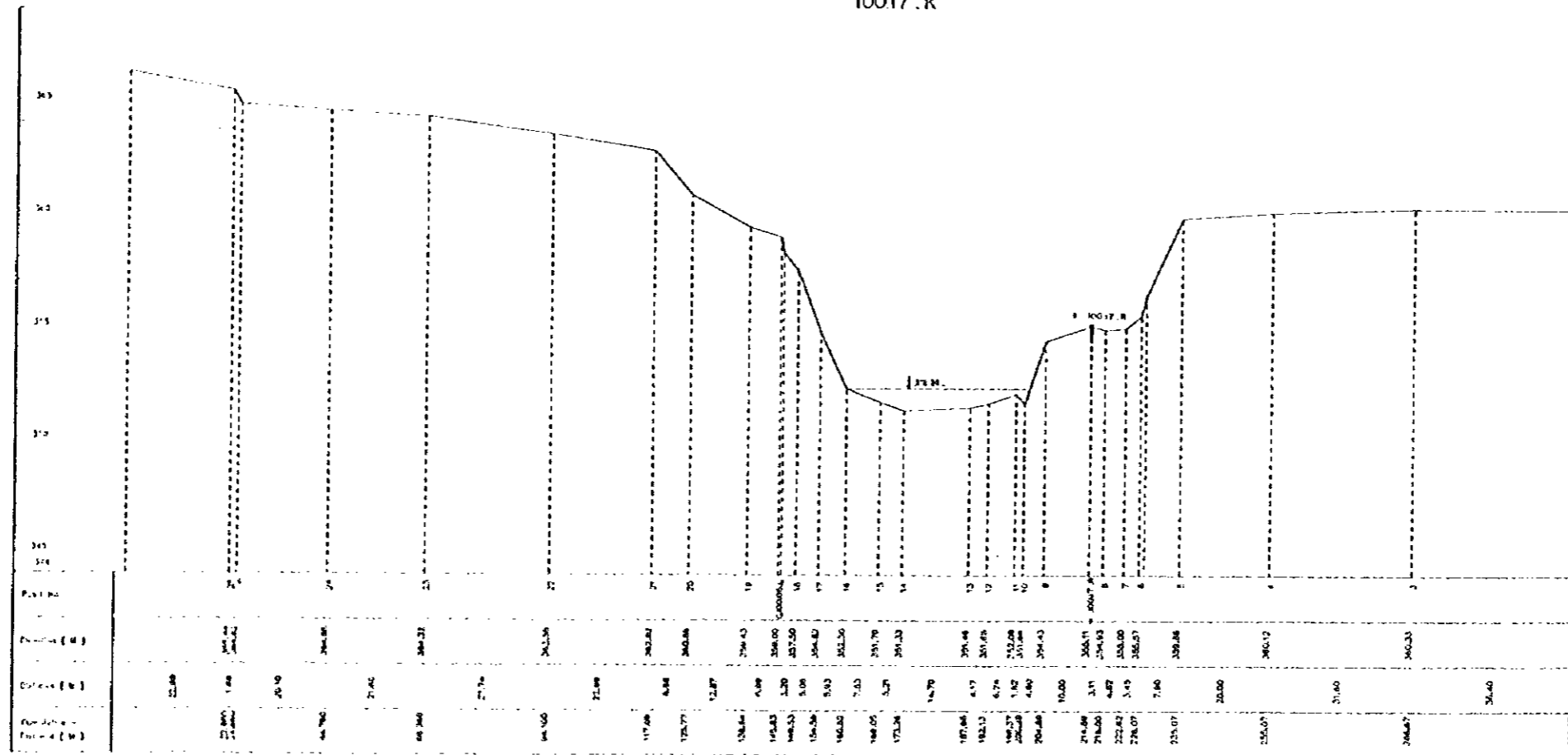
98.90.K

Note: Elevation based on Mean Sea Level (MSL)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CILIMUNG RIVER SITE OF SPANNS	
		CROSS SECTION	
NAME	CHECKED	APPROVED	SCALE
DATE	1977	1977	H = 1 : 500 V = 1 : 100
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS GELTASATTA	

Date: 1977.08.29  
Time: 10:35

100.17 .K

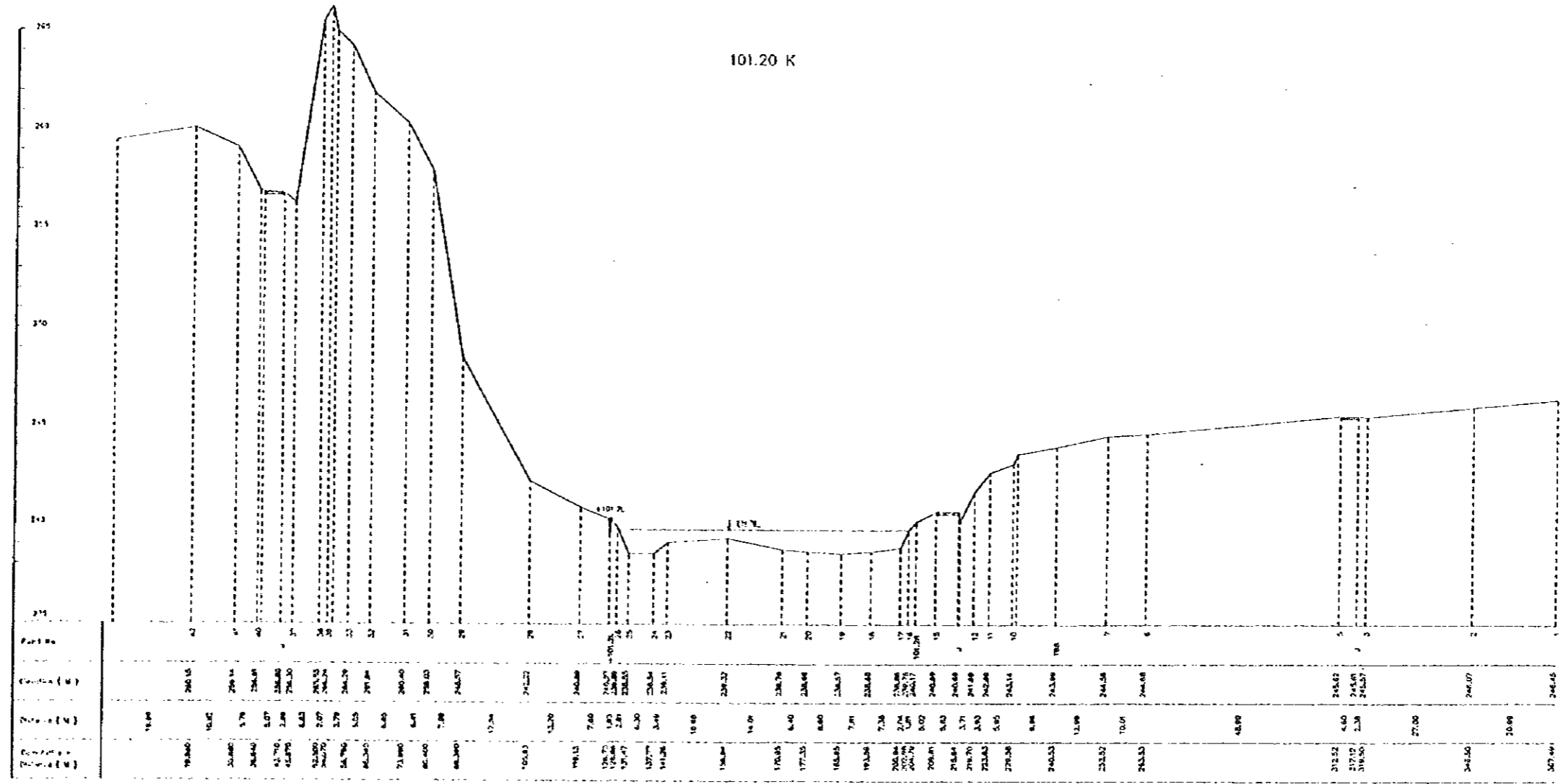


H.Fe : Elev. Hight on Mean Sea Level (TGM)

Scale : 1:500  
Date : 11.85

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		ULPER GUMANG RIVER SITE OF GRAPHIC	
CROSS SECTION		SCALE	SHEET NO. 1
NAME	CHIEF	APPROVED	DATE
SIGNATURE			17/87
DATE			
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. AIRAS DELTASATYA	





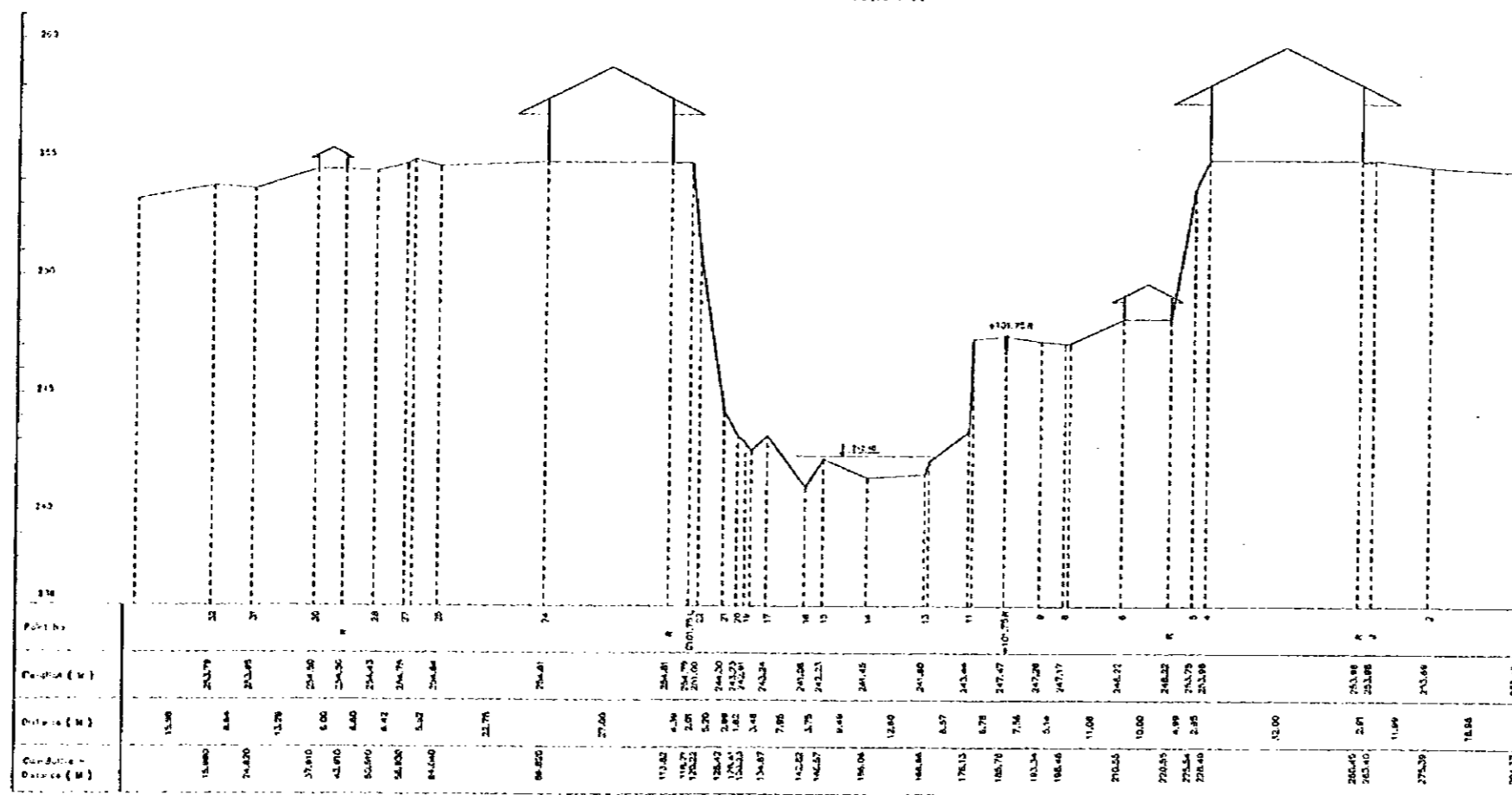
101.20 K

Date : June 25, 99  
 No : 14.30

Note : Main Section 110 B, 111, 11

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT		THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK	
		UPPER CISADANE RIVER TYPE OF DRAWING <b>CROSS SECTION</b>	
RIVER SURVEY		OKOHED [Signature]	APPROVED [Signature]
NAME SURVAYOR DATE	SCALE H = 1 : 500 V = 1 : 100	SHEET NO. 1/15	DESIGNED P.E. ATLAS FELIASATYA
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			

101.75 K

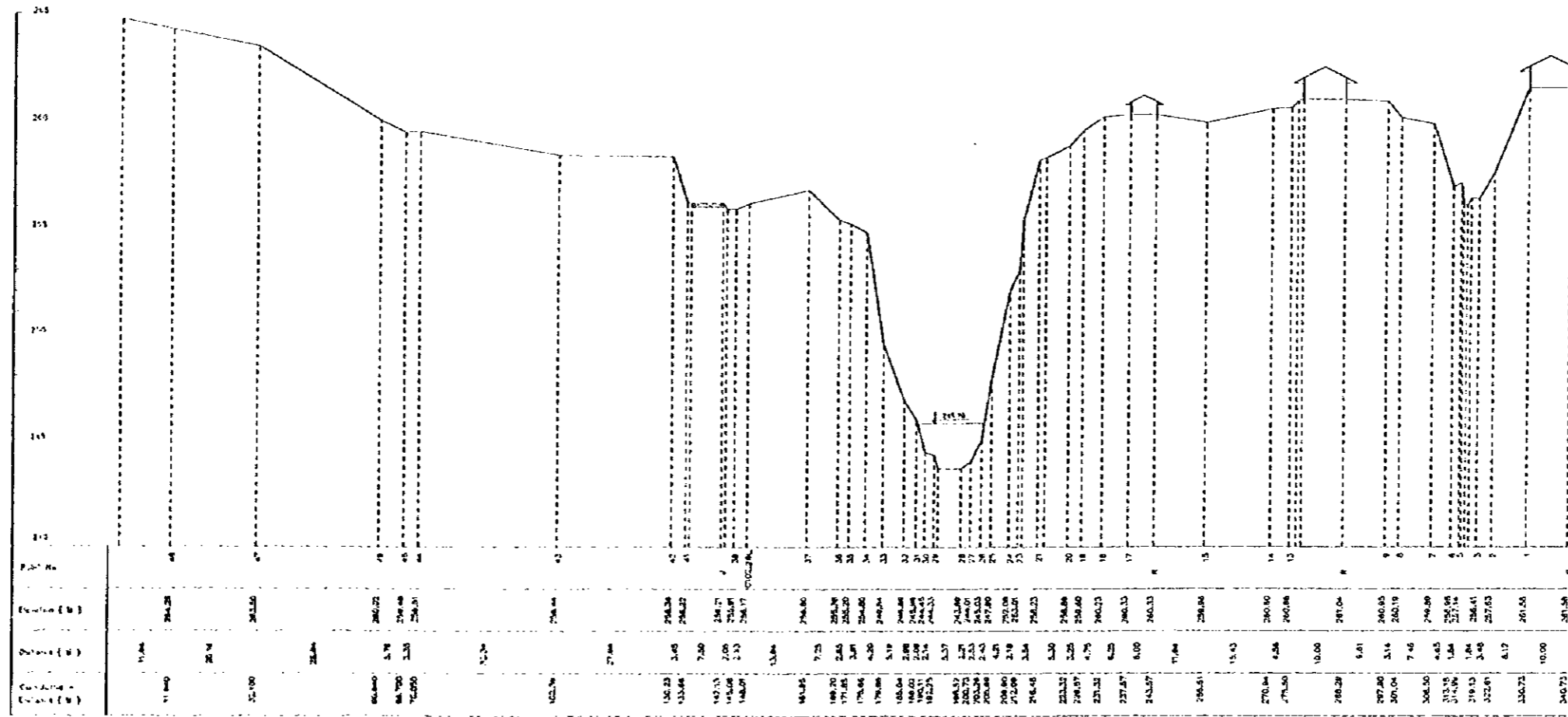


Date: June 25, 98  
Time: 11:30

Note: Mean Sea Level (Fig. 8, 10, 11)

MINISTRY OF PUBLIC WORKS			
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CISADANE RIVER	
		SITE OF EMBRASIS	
		CROSS SECTION	
NAME	DESIGNED	APPROVED	SCALE
SIGNATURE	DATE	DATE	SHEET No.
			H = 1 : 500
			V = 1 : 100
JICA	JAPAN INTERNATIONAL COOPERATION AGENCY	PT. ATLAS DELTASATYA	2/15

102 26K



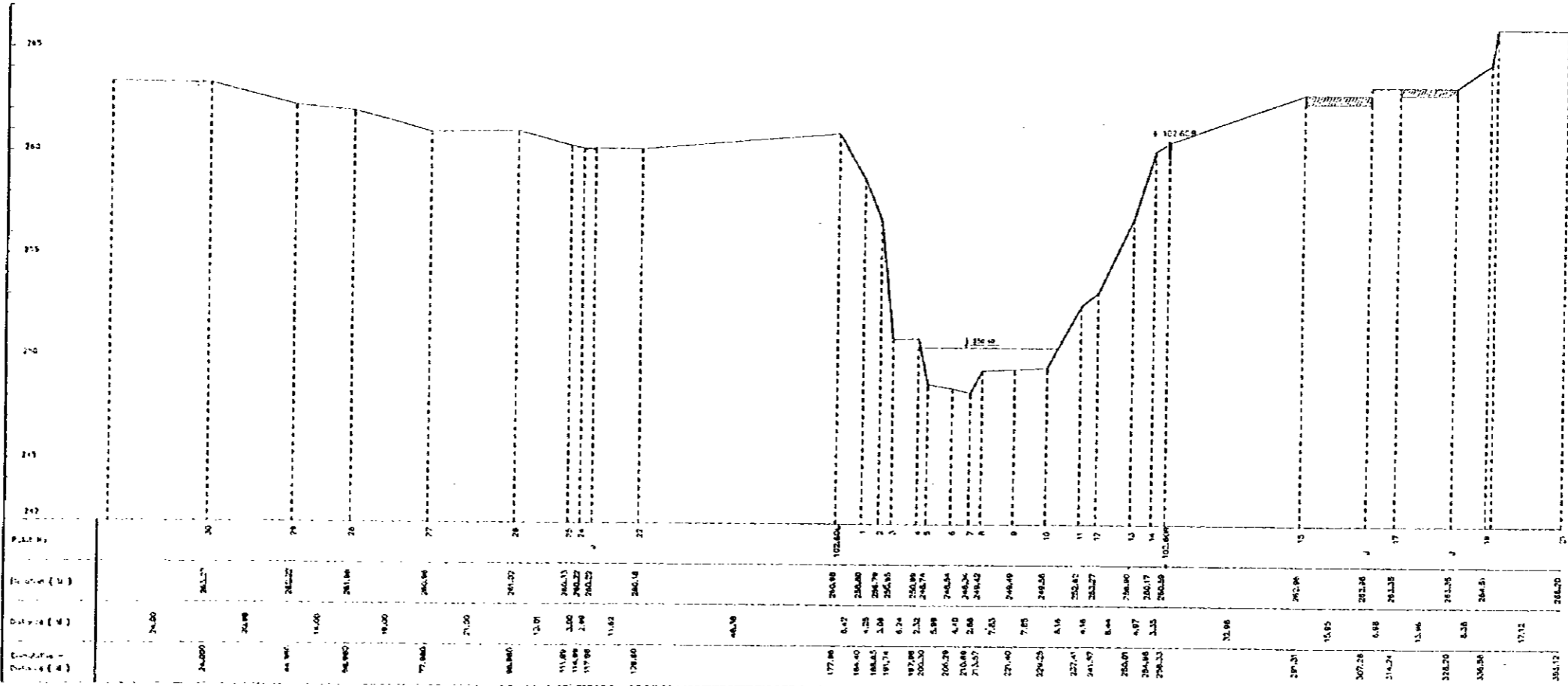
Date: 28.01.65  
 No: 10.00

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

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT														
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK														
UPPER OSADANE RIVER SITE OF SPAN-65														
RIVER SURVEY														
CROSS SECTION														
<table border="1"> <tr> <th>NO.</th> <th>CHECKED</th> <th>APPROVED</th> </tr> <tr> <td>1</td> <td><i>[Signature]</i></td> <td><i>[Signature]</i></td> </tr> <tr> <td>2</td> <td><i>[Signature]</i></td> <td><i>[Signature]</i></td> </tr> </table>	NO.	CHECKED	APPROVED	1	<i>[Signature]</i>	<i>[Signature]</i>	2	<i>[Signature]</i>	<i>[Signature]</i>	<table border="1"> <tr> <th>SCALE</th> <th>SHEET NO.</th> </tr> <tr> <td>H = 1 : 500 V = 1 : 100</td> <td>3/5</td> </tr> </table>	SCALE	SHEET NO.	H = 1 : 500 V = 1 : 100	3/5
NO.	CHECKED	APPROVED												
1	<i>[Signature]</i>	<i>[Signature]</i>												
2	<i>[Signature]</i>	<i>[Signature]</i>												
SCALE	SHEET NO.													
H = 1 : 500 V = 1 : 100	3/5													
JICA JAPAN INTERNATIONAL COOPERATION AGENCY PT. ATLAS BELASATIYA														



102.60K

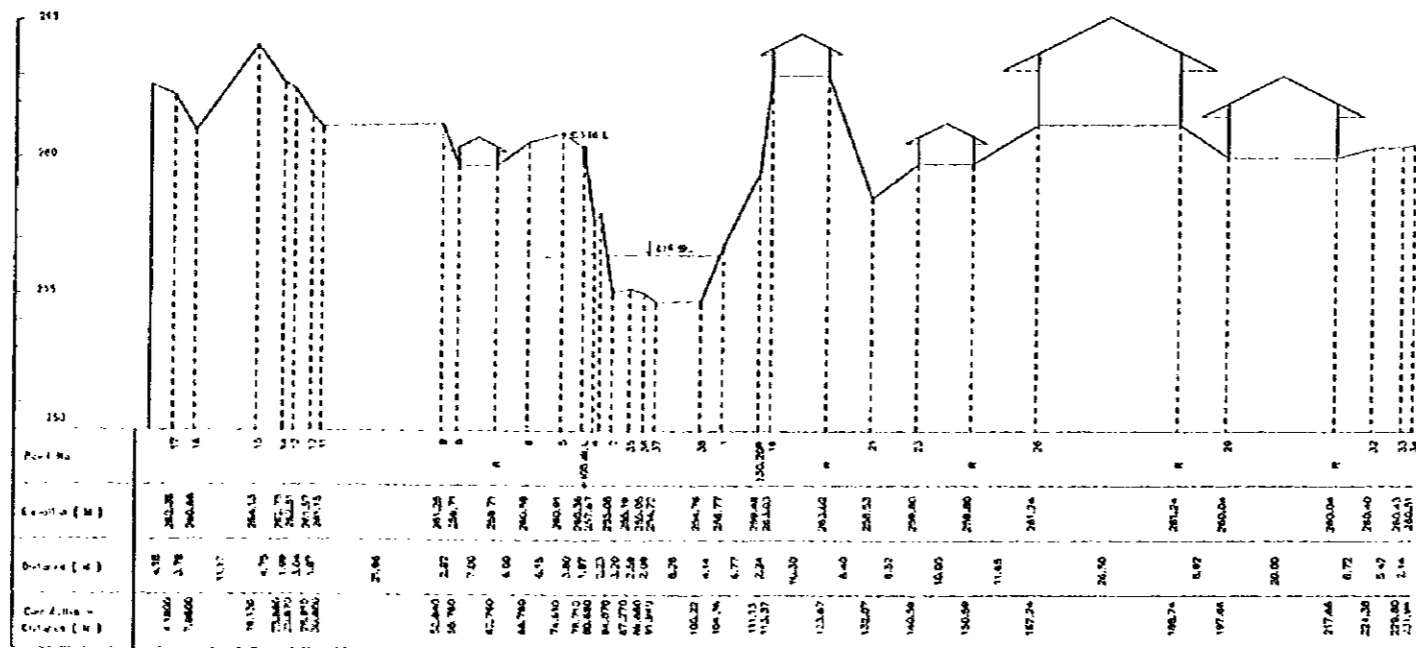


Scale: 1:500

Date: June 15, 98  
 No: 14.38

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK	
RIVER SURVEY	
UPPER CISADANE RIVER NAME OF DRAWINGS CROSS SECTION	
CHECKED NAME: [Signature] SIGNATURE: [Signature] DATE: [Date]	APPROVED NAME: [Signature] SIGNATURE: [Signature] DATE: [Date]
SCALE H = 1 : 500 V = 1 : 100	SHEET No. 1 4/15
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	
PT. ATLAS DELTASATYA	

103.18. K

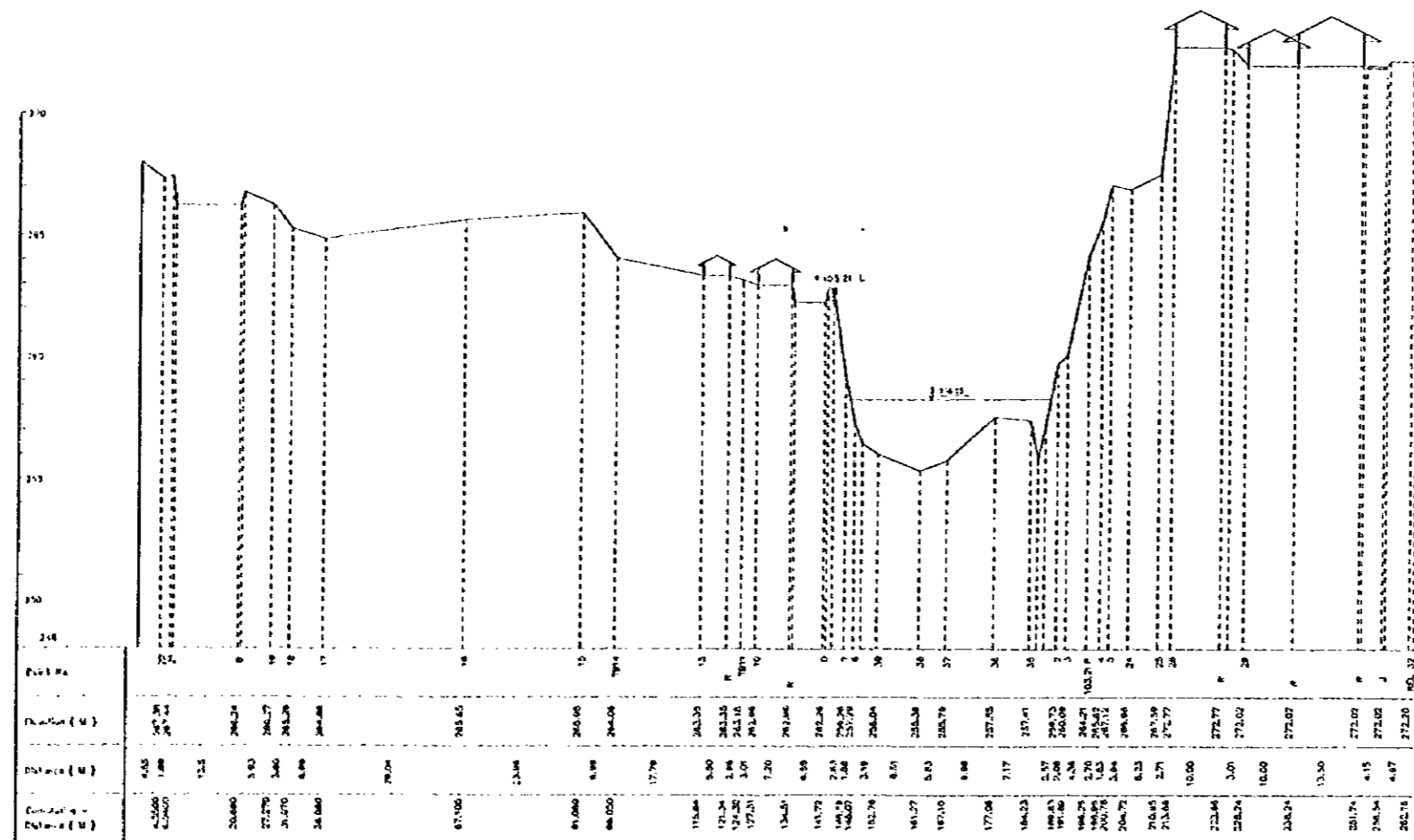


Date: Aug 13, 58  
Time: 13.00

Scale: 1:500

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CISADANE RIVER RIVER OF DRAINAGE	
CROSS SECTION		SCALE H = 1 : 500 V = 1 : 100	
NAME SURVEY DATE	CHECKED DATE	APPROVED DATE	SHEET NO. 5/15
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			PT. ARIAS DELTASATYA

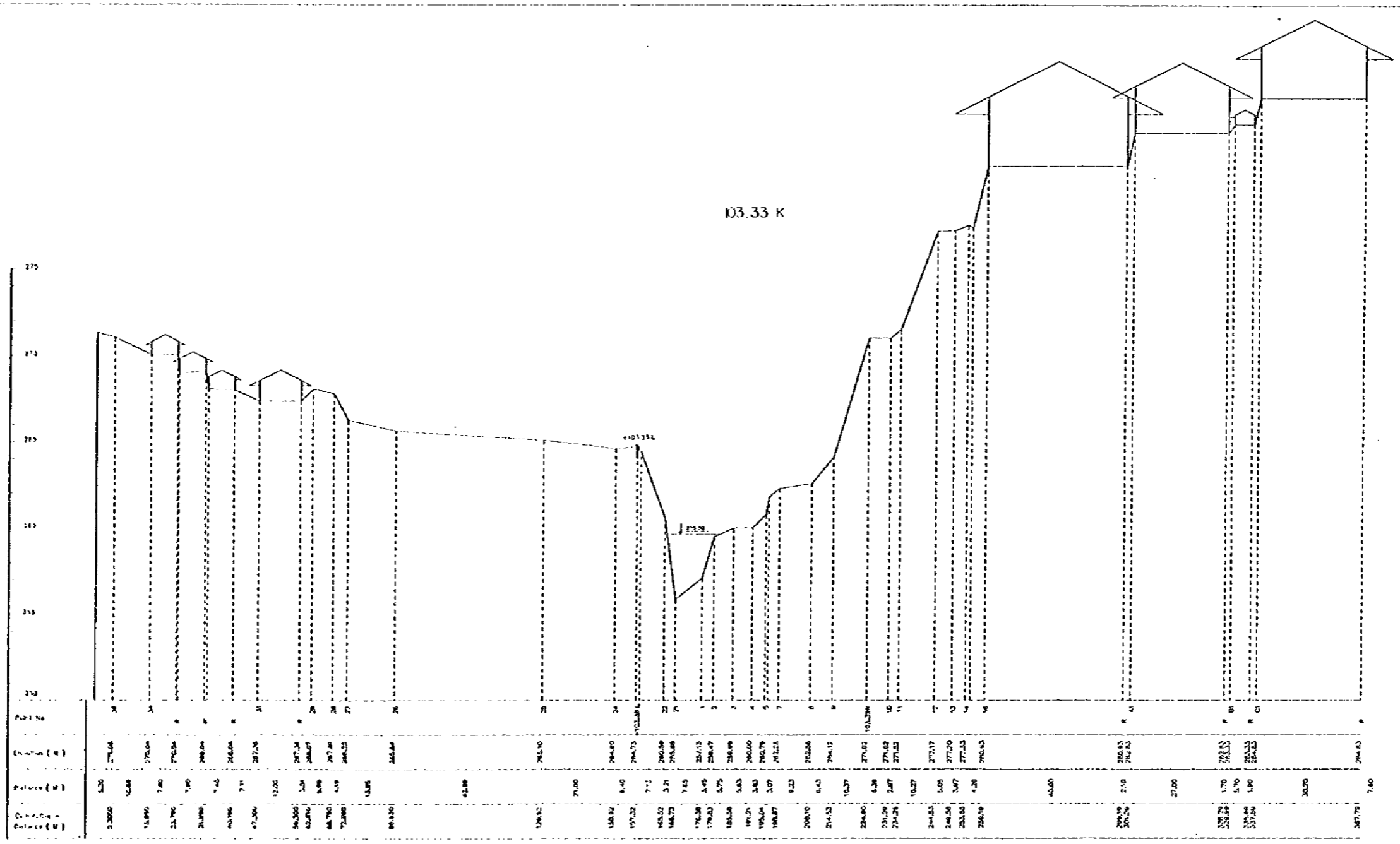
103.21 .K



Date : June 14, 86  
Time : 15.00

Scale: 1:500

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTABEK	
RIVER SURVEY	
UPPER CISADANE RIVER	
CROSS SECTION	
NAME: <i>[Signature]</i>	DATE: <i>[Signature]</i>
SIGNED: <i>[Signature]</i>	DATE: <i>[Signature]</i>
SCALE: H = 1 : 500 V = 1 : 100	SHEET NO.: 6/15
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	PT. ATLAS CENLISATYA

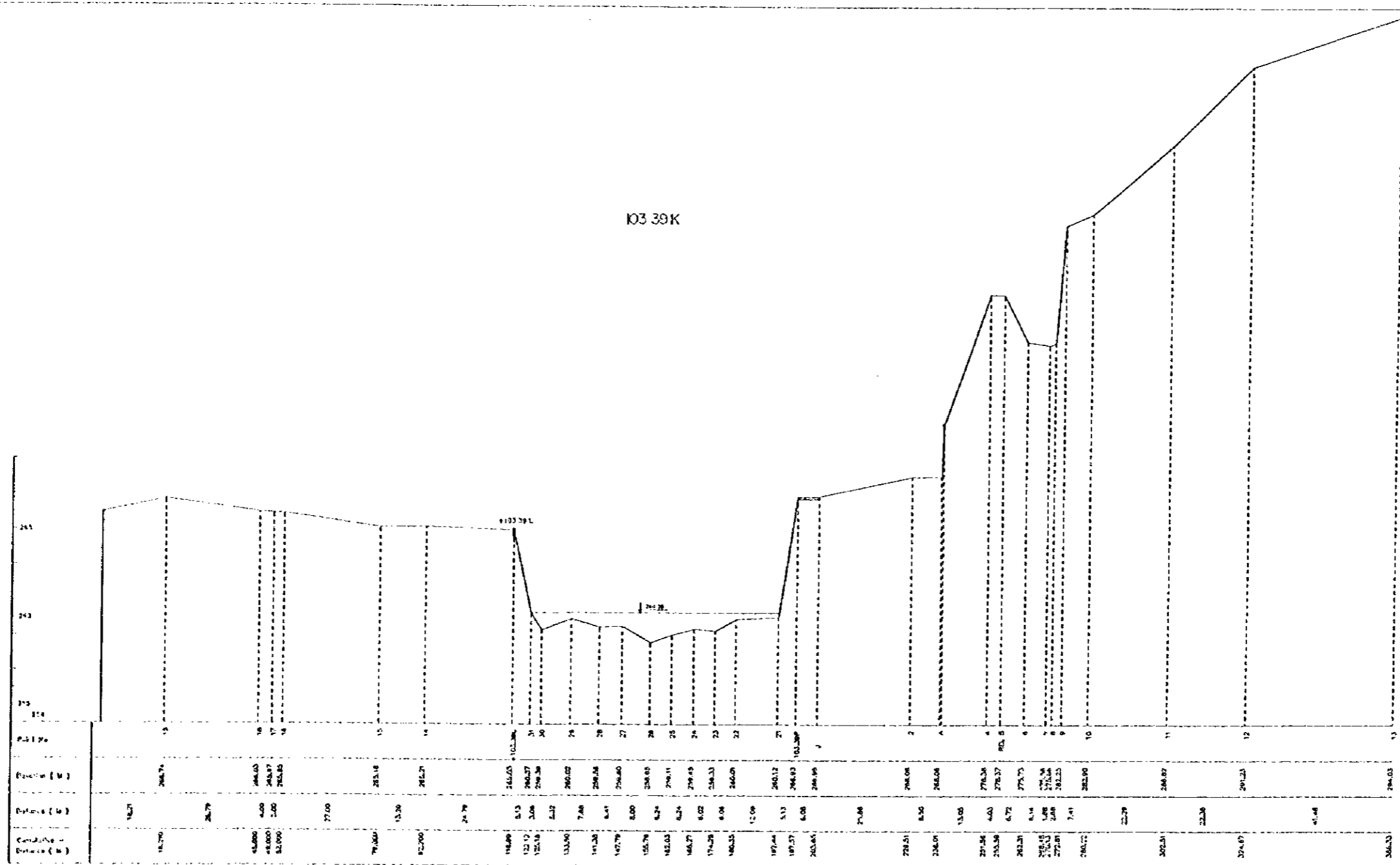


Date: June 1958  
 No: 11.00

Scale: 1:500

MINISTRY OF PUBLIC WORKS		DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER CISADANE RIVER	
		TITLE OF DRAWING	
		CROSS SECTION	
		SCALE	SHEET No.
		H = 1 : 500	7/5
		V = 1 : 100	
JICA		PT. ATLAS DELIASATYA	

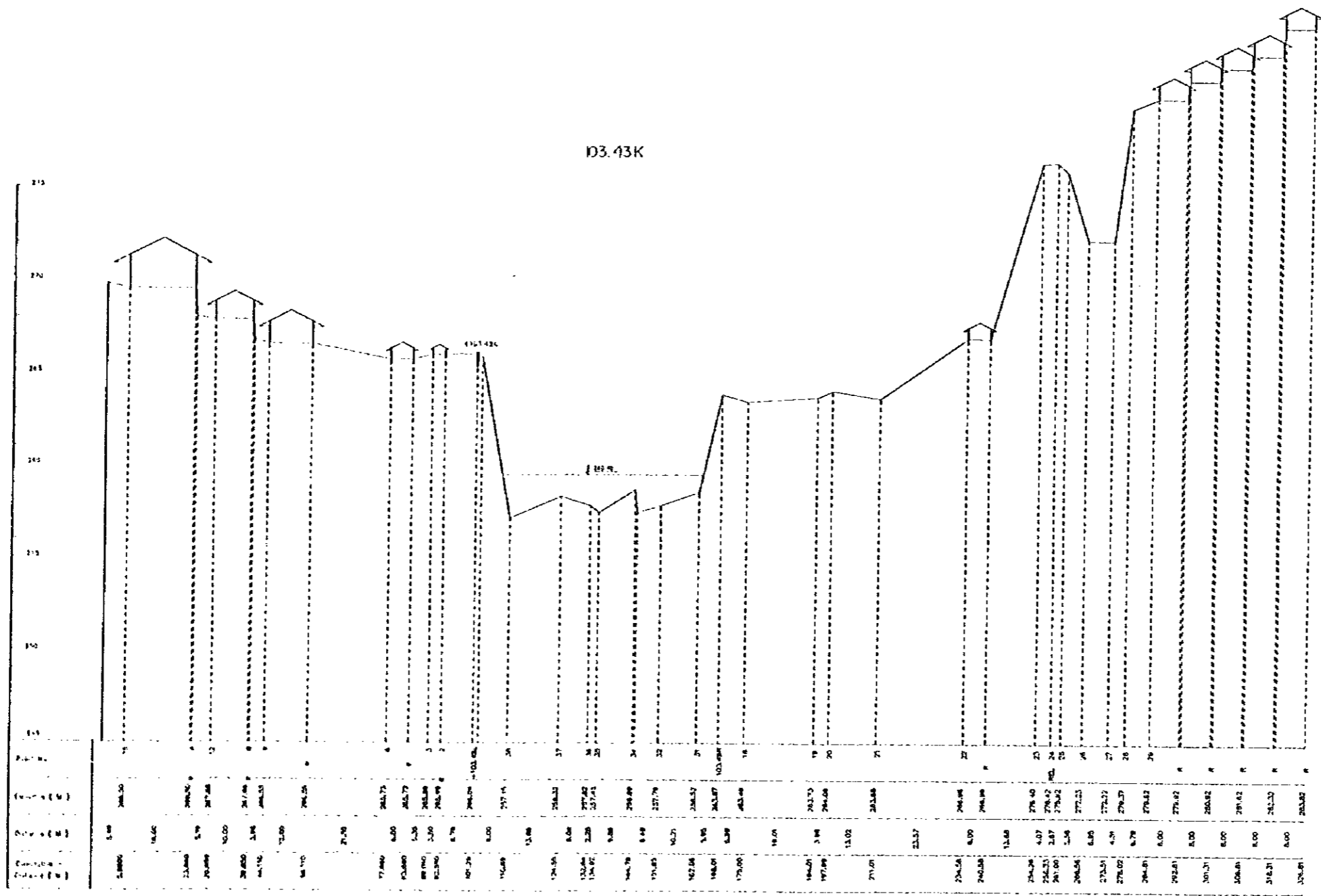
K03 39K



Date : 2-10-1958  
 No. : 14 00

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK	
RIVER SURVEY	UPPER CISADANE RIVER RE OF TRANKIS
	CROSS SECTION
DESIGNED	APPROVED
NAME	NAME
SIGNATURE	SIGNATURE
DATE	DATE
SCALE	SHEET No. 1
H = 1 : 500	8/6
V = 1 : 100	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	PT. ATLAS OCLTASATYA

D3.43K

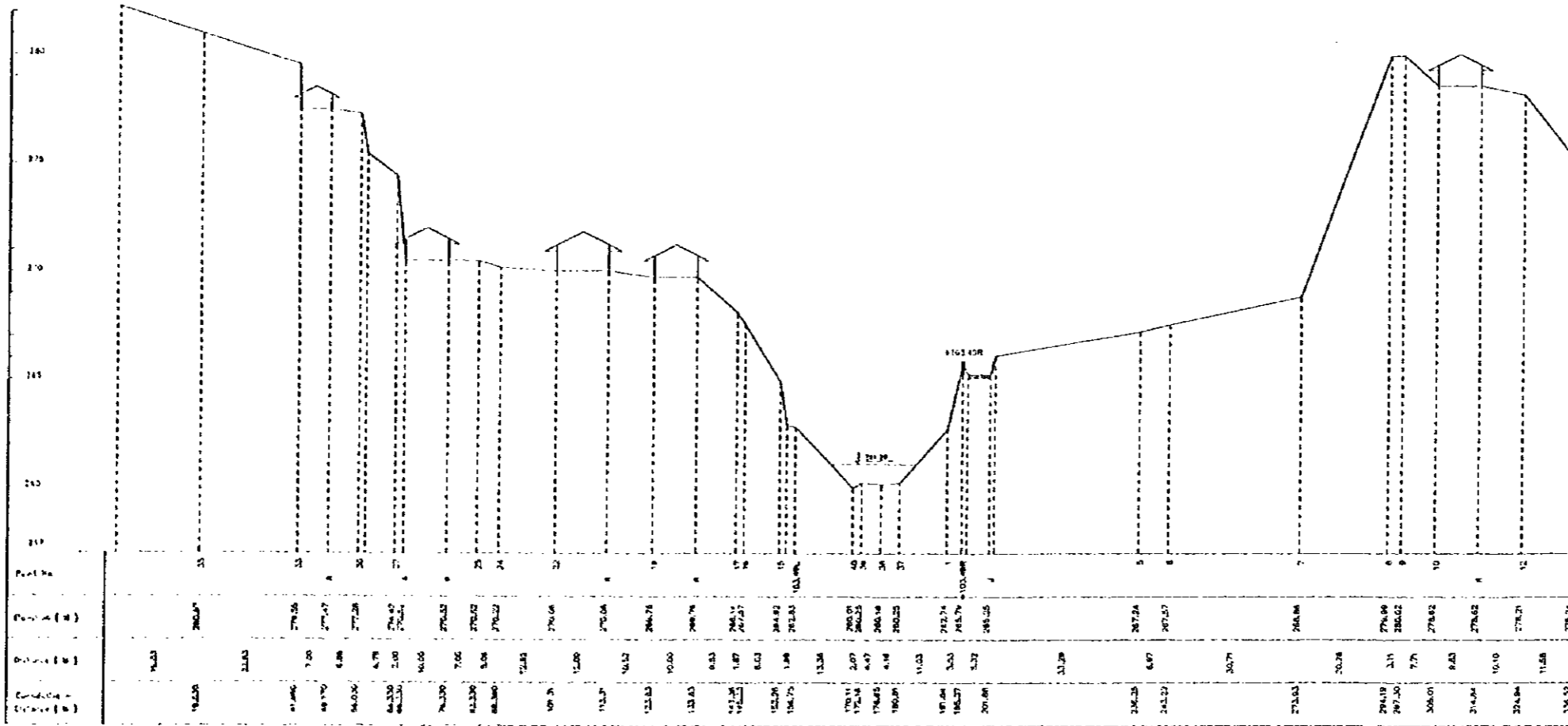


Scale: 1:500

Date: 27.08.2008  
No: 11.00

		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
RIVER SURVEY		UPPER OSADANE RIVER RICE OF OSADANE	
CROSS SECTION		SHEET NO. 1	
CHECKED NAME: [Signature] SIGNATURE: [Signature] DATE: [Date]	APPROVED NAME: [Signature] SIGNATURE: [Signature] DATE: [Date]	SCALE H = 1 : 500 V = 1 : 100	SHEET NO. 1 9/15
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ANAS DELTASATYA	

03.49K

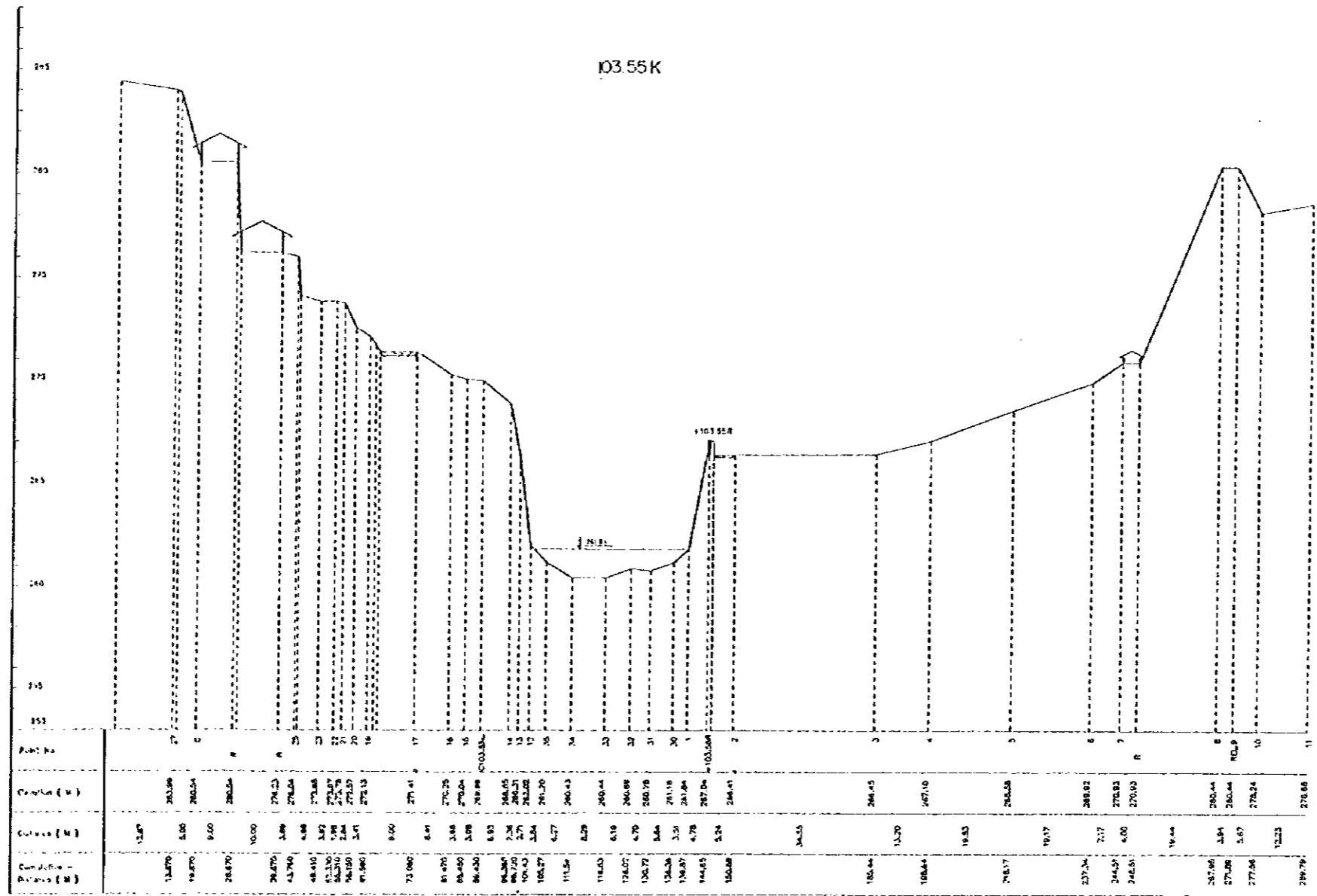


Note: Main Bed Level JIG 8. 10. 11

Date: June 15, 08  
Time: 13:00

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JAHOTANEK			
RIVER SURVEY		UPPER CISADANE RIVER TITLE OF DRAWING	
CROSS SECTION		2017	
NO. 0001	DATE 15/06/08	H = 1 : 500	10/15
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATYA	

D3.55K



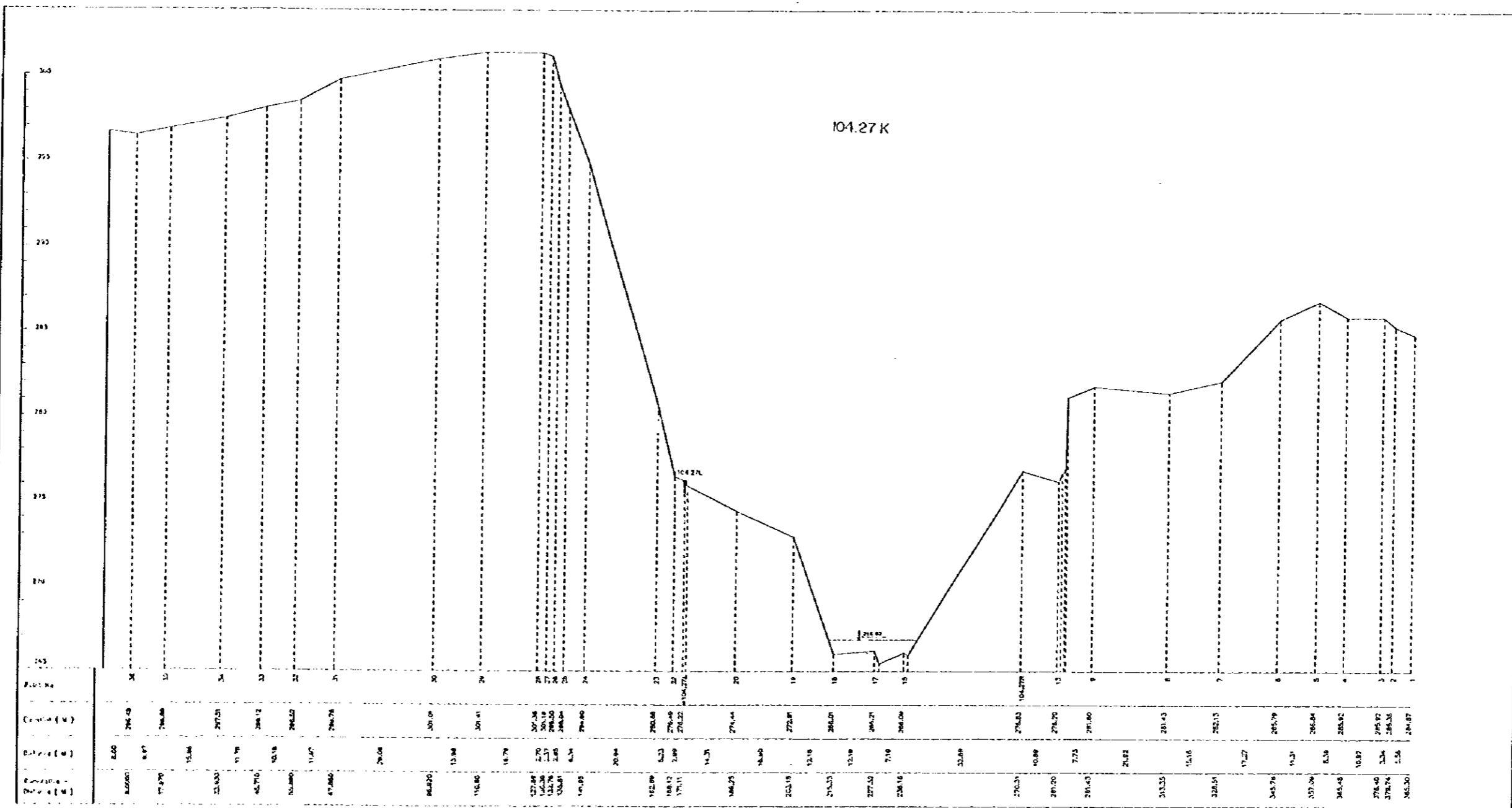
Point No.	Stationing (m)	Ground Surface (m)	Channel (m)
1	13+87	184.70	13.87
2	14+00	184.70	5.00
3	14+10	184.70	9.00
4	14+20	184.70	10.00
5	14+30	184.70	3.88
6	14+40	184.70	4.88
7	14+50	184.70	3.82
8	14+60	184.70	3.82
9	14+70	184.70	1.88
10	14+80	184.70	2.88
11	14+90	184.70	2.88
12	15+00	184.70	2.88
13	15+10	184.70	2.88
14	15+20	184.70	2.88
15	15+30	184.70	2.88
16	15+40	184.70	2.88
17	15+50	184.70	2.88
18	15+60	184.70	2.88
19	15+70	184.70	2.88
20	15+80	184.70	2.88
21	15+90	184.70	2.88
22	16+00	184.70	2.88
23	16+10	184.70	2.88
24	16+20	184.70	2.88
25	16+30	184.70	2.88
26	16+40	184.70	2.88
27	16+50	184.70	2.88
28	16+60	184.70	2.88
29	16+70	184.70	2.88
30	16+80	184.70	2.88
31	16+90	184.70	2.88
32	17+00	184.70	2.88
33	17+10	184.70	2.88
34	17+20	184.70	2.88
35	17+30	184.70	2.88
36	17+40	184.70	2.88
37	17+50	184.70	2.88
38	17+60	184.70	2.88
39	17+70	184.70	2.88
40	17+80	184.70	2.88
41	17+90	184.70	2.88
42	18+00	184.70	2.88
43	18+10	184.70	2.88
44	18+20	184.70	2.88
45	18+30	184.70	2.88
46	18+40	184.70	2.88
47	18+50	184.70	2.88
48	18+60	184.70	2.88
49	18+70	184.70	2.88
50	18+80	184.70	2.88
51	18+90	184.70	2.88
52	19+00	184.70	2.88
53	19+10	184.70	2.88
54	19+20	184.70	2.88
55	19+30	184.70	2.88
56	19+40	184.70	2.88
57	19+50	184.70	2.88
58	19+60	184.70	2.88
59	19+70	184.70	2.88
60	19+80	184.70	2.88
61	19+90	184.70	2.88
62	20+00	184.70	2.88
63	20+10	184.70	2.88
64	20+20	184.70	2.88
65	20+30	184.70	2.88
66	20+40	184.70	2.88
67	20+50	184.70	2.88
68	20+60	184.70	2.88
69	20+70	184.70	2.88
70	20+80	184.70	2.88
71	20+90	184.70	2.88
72	21+00	184.70	2.88
73	21+10	184.70	2.88
74	21+20	184.70	2.88
75	21+30	184.70	2.88
76	21+40	184.70	2.88
77	21+50	184.70	2.88
78	21+60	184.70	2.88
79	21+70	184.70	2.88
80	21+80	184.70	2.88
81	21+90	184.70	2.88
82	22+00	184.70	2.88
83	22+10	184.70	2.88
84	22+20	184.70	2.88
85	22+30	184.70	2.88
86	22+40	184.70	2.88
87	22+50	184.70	2.88
88	22+60	184.70	2.88
89	22+70	184.70	2.88
90	22+80	184.70	2.88
91	22+90	184.70	2.88
92	23+00	184.70	2.88
93	23+10	184.70	2.88
94	23+20	184.70	2.88
95	23+30	184.70	2.88
96	23+40	184.70	2.88
97	23+50	184.70	2.88
98	23+60	184.70	2.88
99	23+70	184.70	2.88
100	23+80	184.70	2.88
101	23+90	184.70	2.88
102	24+00	184.70	2.88
103	24+10	184.70	2.88
104	24+20	184.70	2.88
105	24+30	184.70	2.88
106	24+40	184.70	2.88
107	24+50	184.70	2.88
108	24+60	184.70	2.88
109	24+70	184.70	2.88
110	24+80	184.70	2.88
111	24+90	184.70	2.88
112	25+00	184.70	2.88
113	25+10	184.70	2.88
114	25+20	184.70	2.88
115	25+30	184.70	2.88
116	25+40	184.70	2.88
117	25+50	184.70	2.88
118	25+60	184.70	2.88
119	25+70	184.70	2.88
120	25+80	184.70	2.88
121	25+90	184.70	2.88
122	26+00	184.70	2.88
123	26+10	184.70	2.88
124	26+20	184.70	2.88
125	26+30	184.70	2.88
126	26+40	184.70	2.88
127	26+50	184.70	2.88
128	26+60	184.70	2.88
129	26+70	184.70	2.88
130	26+80	184.70	2.88
131	26+90	184.70	2.88
132	27+00	184.70	2.88
133	27+10	184.70	2.88
134	27+20	184.70	2.88
135	27+30	184.70	2.88
136	27+40	184.70	2.88
137	27+50	184.70	2.88
138	27+60	184.70	2.88
139	27+70	184.70	2.88
140	27+80	184.70	2.88
141	27+90	184.70	2.88
142	28+00	184.70	2.88
143	28+10	184.70	2.88
144	28+20	184.70	2.88
145	28+30	184.70	2.88
146	28+40	184.70	2.88
147	28+50	184.70	2.88
148	28+60	184.70	2.88
149	28+70	184.70	2.88
150	28+80	184.70	2.88
151	28+90	184.70	2.88
152	29+00	184.70	2.88
153	29+10	184.70	2.88
154	29+20	184.70	2.88
155	29+30	184.70	2.88
156	29+40	184.70	2.88
157	29+50	184.70	2.88
158	29+60	184.70	2.88
159	29+70	184.70	2.88
160	29+80	184.70	2.88
161	29+90	184.70	2.88
162	30+00	184.70	2.88

Note: Mean Sea Level TIS 8-10-11

Date: Dec 15, 92  
Time: 11:00

MINISTRY OF PUBLIC WORKS				DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK					
RIVER SURVEY			UPPER CISADANE RIVER		
			RATE OF DRAWING		
			CROSS SECTION		
NAME	CHECKED	APPROVED	SCALE	SHEET No. 1	
SIGNATURE			H = 1 : 500	11/15	
DATE			V = 1 : 100		
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			PT. ADAS DELTASATYA		

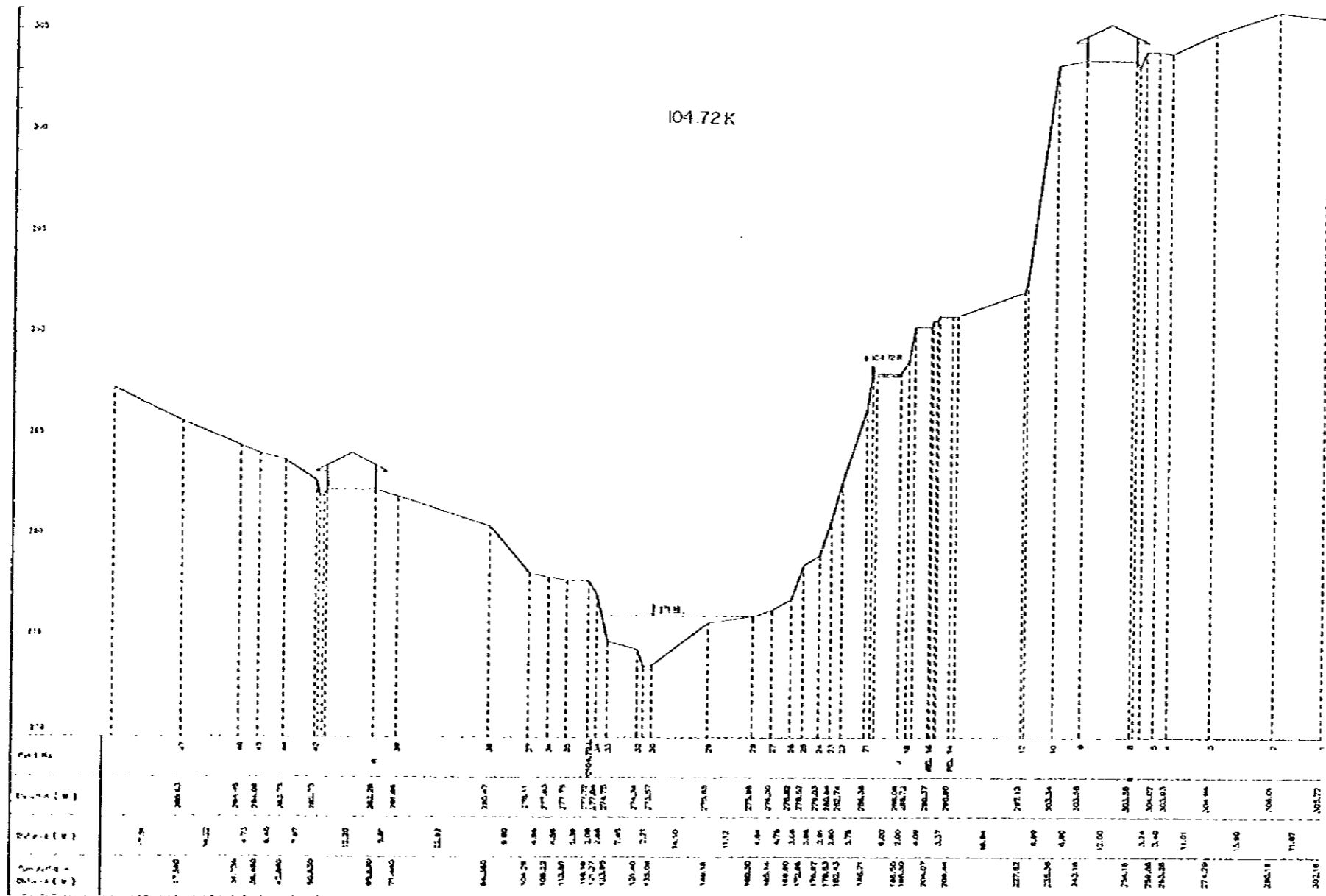




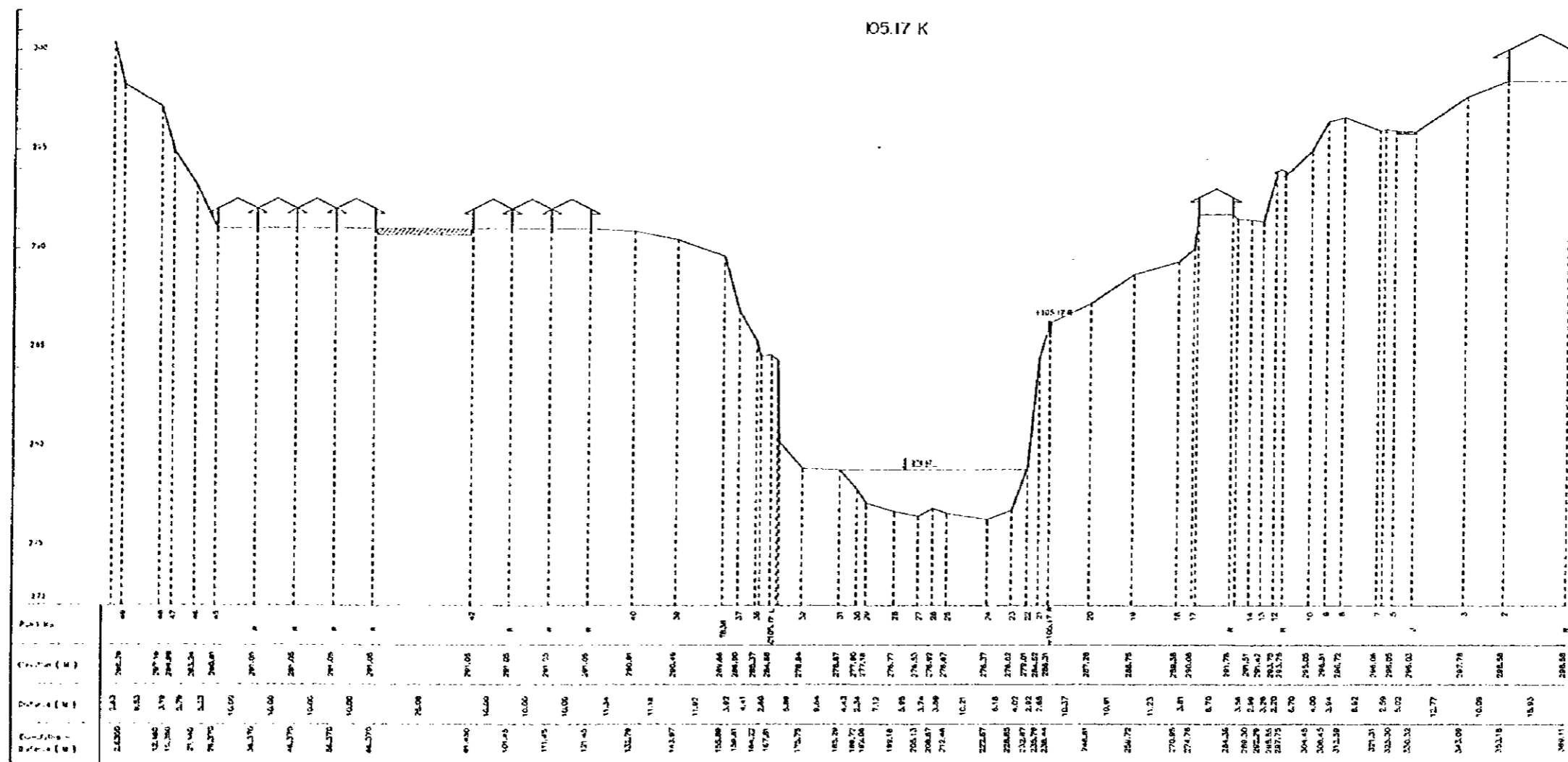
Water Level: Mean Sea Level, 110.9, 112.31

Date: June 28, 89  
 Time: 08.30

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTADIK			
RIVER SURVEY		UPPER OSADANIC RIVER RISE OF DAM-055	
CROSS SECTION		SCALE	
DATE	DRAWN	APPROVED	SHEET No. 1
12/85	[Signature]	[Signature]	H = 1 : 500 V = 1 : 100
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATYA	



105.17 K



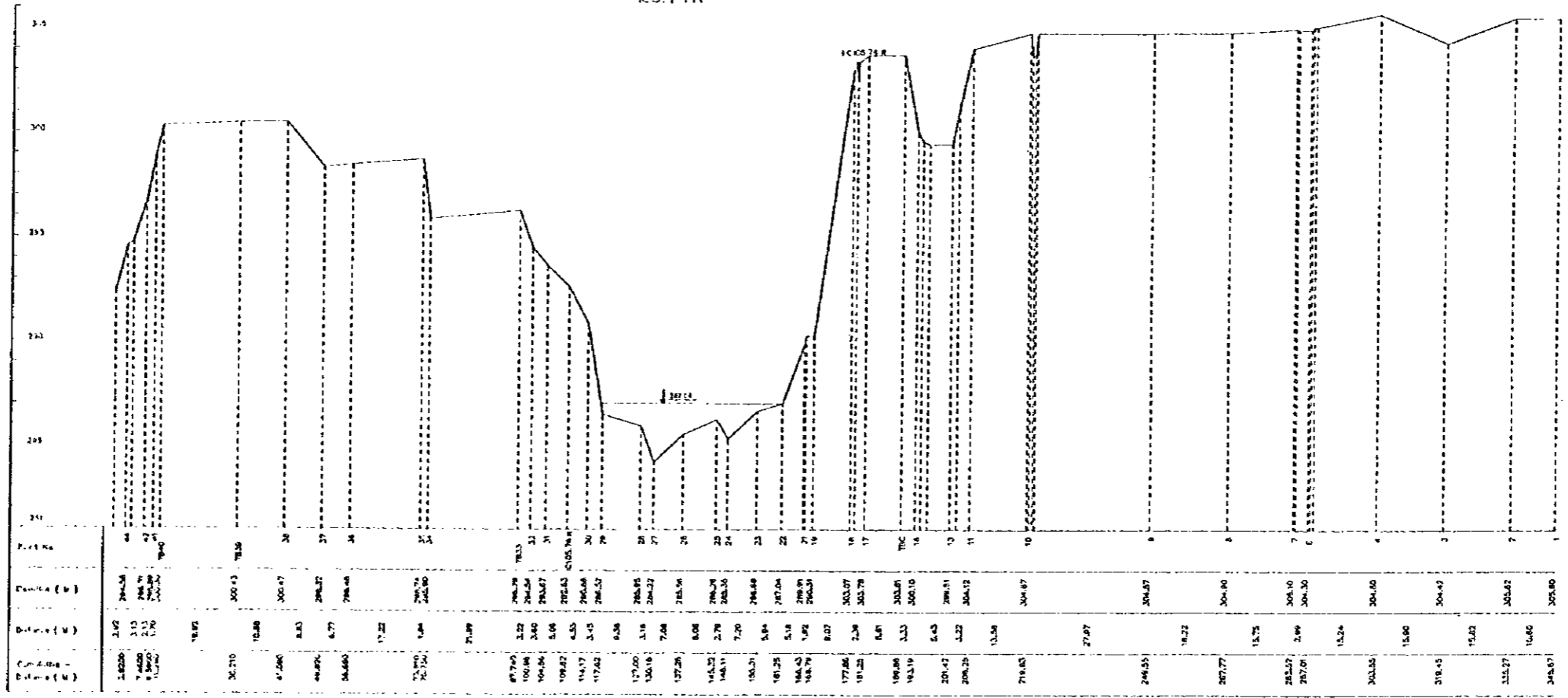
Station	Elevation (m)	Station	Elevation (m)	Station	Elevation (m)	Station	Elevation (m)
2+000	226.29	2+100	226.29	2+200	226.29	2+300	226.29
2+010	226.29	2+110	226.29	2+210	226.29	2+310	226.29
2+020	226.29	2+120	226.29	2+220	226.29	2+320	226.29
2+030	226.29	2+130	226.29	2+230	226.29	2+330	226.29
2+040	226.29	2+140	226.29	2+240	226.29	2+340	226.29
2+050	226.29	2+150	226.29	2+250	226.29	2+350	226.29
2+060	226.29	2+160	226.29	2+260	226.29	2+360	226.29
2+070	226.29	2+170	226.29	2+270	226.29	2+370	226.29
2+080	226.29	2+180	226.29	2+280	226.29	2+380	226.29
2+090	226.29	2+190	226.29	2+290	226.29	2+390	226.29
2+100	226.29	2+200	226.29	2+300	226.29	2+400	226.29
2+110	226.29	2+210	226.29	2+310	226.29	2+410	226.29
2+120	226.29	2+220	226.29	2+320	226.29	2+420	226.29
2+130	226.29	2+230	226.29	2+330	226.29	2+430	226.29
2+140	226.29	2+240	226.29	2+340	226.29	2+440	226.29
2+150	226.29	2+250	226.29	2+350	226.29	2+450	226.29
2+160	226.29	2+260	226.29	2+360	226.29	2+460	226.29
2+170	226.29	2+270	226.29	2+370	226.29	2+470	226.29
2+180	226.29	2+280	226.29	2+380	226.29	2+480	226.29
2+190	226.29	2+290	226.29	2+390	226.29	2+490	226.29
2+200	226.29	2+300	226.29	2+400	226.29	2+500	226.29
2+210	226.29	2+310	226.29	2+410	226.29	2+510	226.29
2+220	226.29	2+320	226.29	2+420	226.29	2+520	226.29
2+230	226.29	2+330	226.29	2+430	226.29	2+530	226.29
2+240	226.29	2+340	226.29	2+440	226.29	2+540	226.29
2+250	226.29	2+350	226.29	2+450	226.29	2+550	226.29
2+260	226.29	2+360	226.29	2+460	226.29	2+560	226.29
2+270	226.29	2+370	226.29	2+470	226.29	2+570	226.29
2+280	226.29	2+380	226.29	2+480	226.29	2+580	226.29
2+290	226.29	2+390	226.29	2+490	226.29	2+590	226.29
2+300	226.29	2+400	226.29	2+500	226.29	2+600	226.29
2+310	226.29	2+410	226.29	2+510	226.29	2+610	226.29
2+320	226.29	2+420	226.29	2+520	226.29	2+620	226.29
2+330	226.29	2+430	226.29	2+530	226.29	2+630	226.29
2+340	226.29	2+440	226.29	2+540	226.29	2+640	226.29
2+350	226.29	2+450	226.29	2+550	226.29	2+650	226.29
2+360	226.29	2+460	226.29	2+560	226.29	2+660	226.29
2+370	226.29	2+470	226.29	2+570	226.29	2+670	226.29
2+380	226.29	2+480	226.29	2+580	226.29	2+680	226.29
2+390	226.29	2+490	226.29	2+590	226.29	2+690	226.29
2+400	226.29	2+500	226.29	2+600	226.29	2+700	226.29
2+410	226.29	2+510	226.29	2+610	226.29	2+710	226.29
2+420	226.29	2+520	226.29	2+620	226.29	2+720	226.29
2+430	226.29	2+530	226.29	2+630	226.29	2+730	226.29
2+440	226.29	2+540	226.29	2+640	226.29	2+740	226.29
2+450	226.29	2+550	226.29	2+650	226.29	2+750	226.29
2+460	226.29	2+560	226.29	2+660	226.29	2+760	226.29
2+470	226.29	2+570	226.29	2+670	226.29	2+770	226.29
2+480	226.29	2+580	226.29	2+680	226.29	2+780	226.29
2+490	226.29	2+590	226.29	2+690	226.29	2+790	226.29
2+500	226.29	2+600	226.29	2+700	226.29	2+800	226.29
2+510	226.29	2+610	226.29	2+710	226.29	2+810	226.29
2+520	226.29	2+620	226.29	2+720	226.29	2+820	226.29
2+530	226.29	2+630	226.29	2+730	226.29	2+830	226.29
2+540	226.29	2+640	226.29	2+740	226.29	2+840	226.29
2+550	226.29	2+650	226.29	2+750	226.29	2+850	226.29
2+560	226.29	2+660	226.29	2+760	226.29	2+860	226.29
2+570	226.29	2+670	226.29	2+770	226.29	2+870	226.29
2+580	226.29	2+680	226.29	2+780	226.29	2+880	226.29
2+590	226.29	2+690	226.29	2+790	226.29	2+890	226.29
2+600	226.29	2+700	226.29	2+800	226.29	2+900	226.29

U.S. NAD 83 Sea Level, PG. 9, 10, 11

Date: June 28, 88  
Time: 13:50

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK	
RIVER SURVEY	
UPPER CISADANE RIVER RIVER CROSS SECTION	
NAME: [Blank] SURVEY: [Blank] DATE: [Blank]	CHECKED: [Blank] APPROVED: [Blank]
SCALE: H = 1 : 500 V = 1 : 100	SHEET NO. 11 M/15
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	
PT. ADAS DEHASATYA	

105.74K

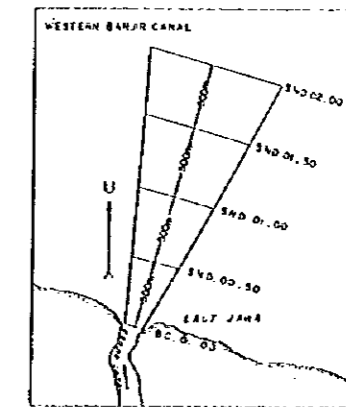
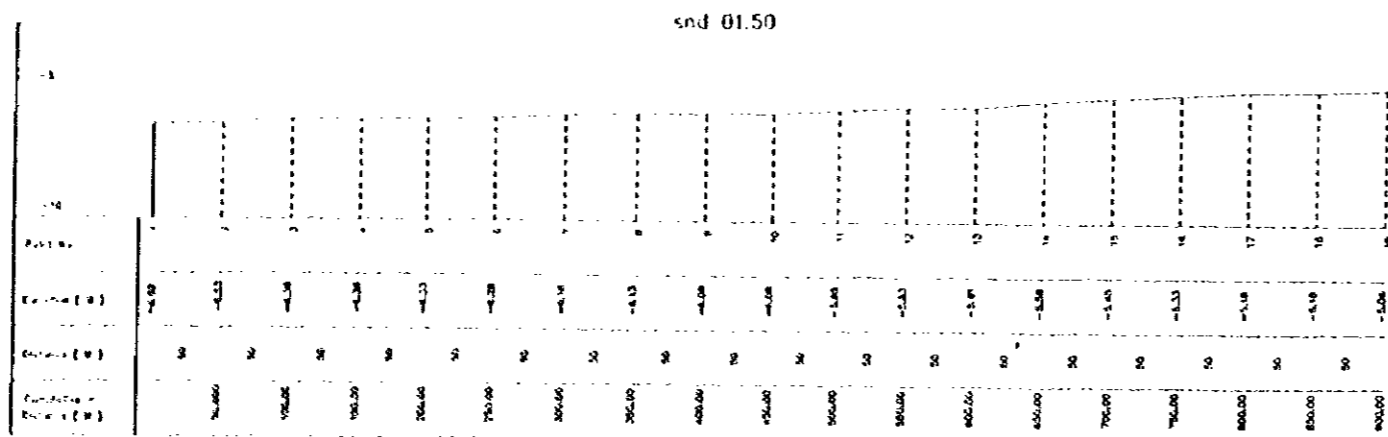
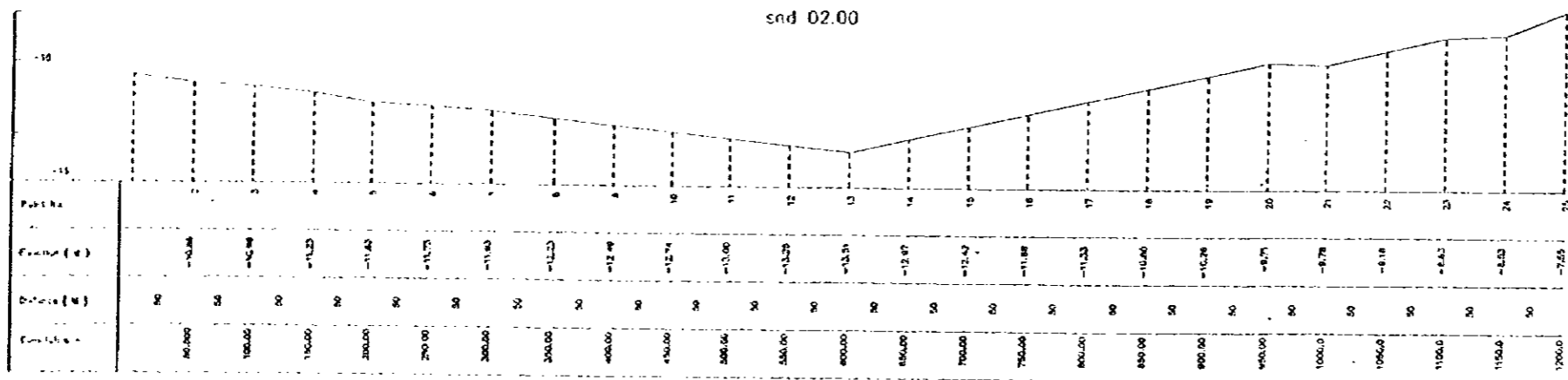


Date: June 26, 86  
Time: 17:00

15/01/86 544 10-1376 8.13L II

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK	
RIVER SURVEY	
UPPER CISADANE RIVER RUE OF BRANGES	
CROSS SECTION	
DESIGNED	APPROVED
NAME	SCALE
DATE	SHEET No. 1
JICA JAPAN INTERNATIONAL COOPERATION AGENCY	
PI. ATLAS DELTASATYA	

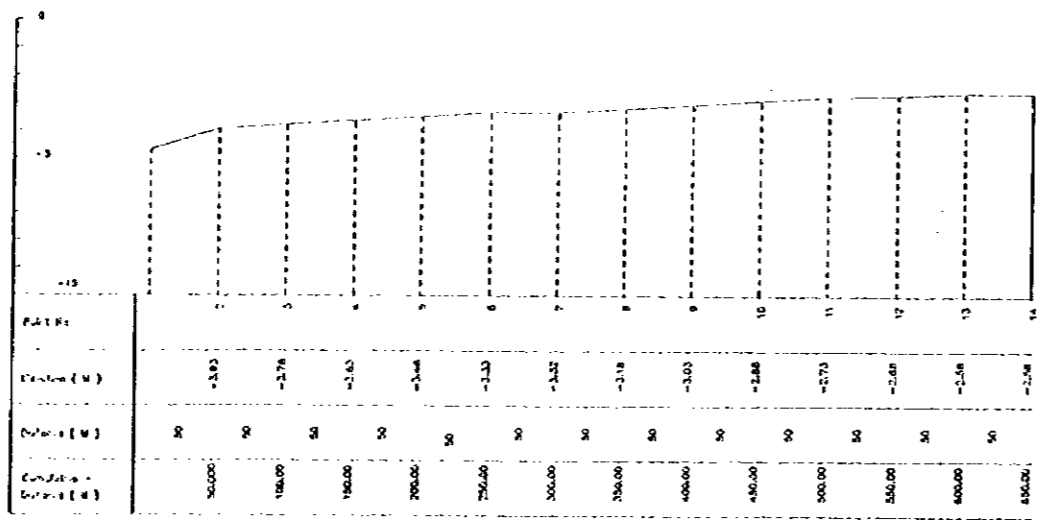
#### 4 Sounding Survey of Western Banjir Canal and Cisadane River Estuaries



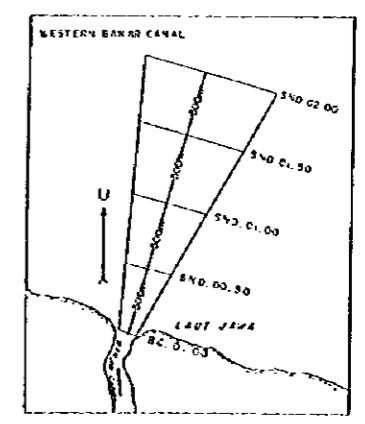
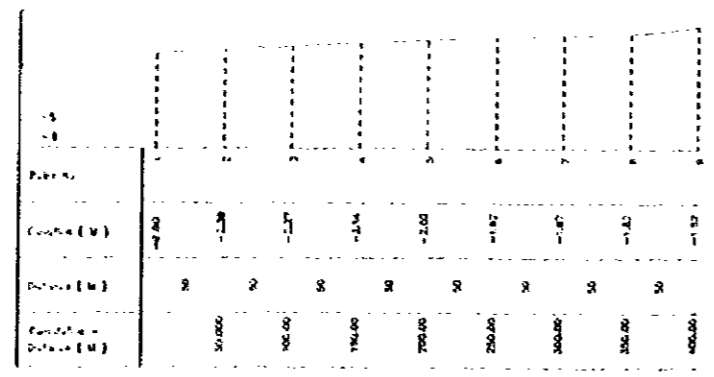
Note: Elevation is based on Mean Sea Level (MSL)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
SOUNDING SURVEY		WESTERN BANJAR CANAL LINE OF PROFILES	
		CROSS SECTION	
DATE	NO. OF STATIONS	SCALE	DATE
		H = 1 : 2,000 V = 1 : 100	1 / 2
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATYA	

snd 01.00



snd 00.50



Edge Elevation based on Mean Sea Level (T.C.)

MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
SOUNDING SURVEY		WESTERN BANK CANAL RALE OF GRABAN-3	
		CROSS SECTION	
DESIGNED	APPROVED	SCALE	SHEET NO.
Name	Signature	H = 1 : 2,000	2 / 2
Date		V = 1 : 100	
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS ULTRASATYA	

nt

snd 1.200

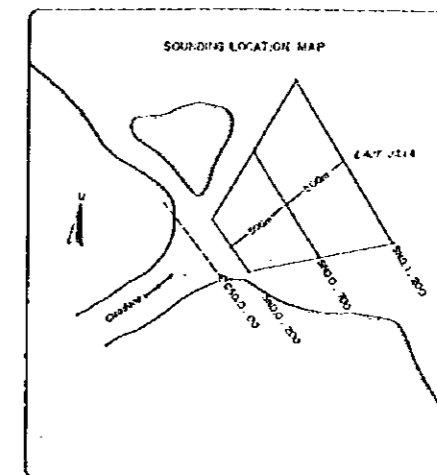
Point No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Depth (M)	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37
Distance (M)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Cumulative Distance (M)	50.000	100.000	150.000	200.000	250.000	300.000	350.000	400.000	450.000	500.000	550.000	600.000	650.000	700.000	750.000	800.000	850.000	900.000	950.000	1000.000	1050.000	1100.000	1150.000	1200.000	1250.000

snd 0.700

Point No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Depth (M)	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Distance (M)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Cumulative Distance (M)	50.000	100.000	150.000	200.000	250.000	300.000	350.000	400.000	450.000	500.000	550.000	600.000	650.000	700.000	750.000	800.000	850.000

snd 0.200

Point No.	1	2	3	4	5	6	7	8
Depth (M)	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Distance (M)	50	50	50	50	50	50	50	50
Cumulative Distance (M)	50.000	100.000	150.000	200.000	250.000	300.000	350.000	400.000

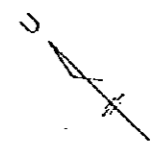
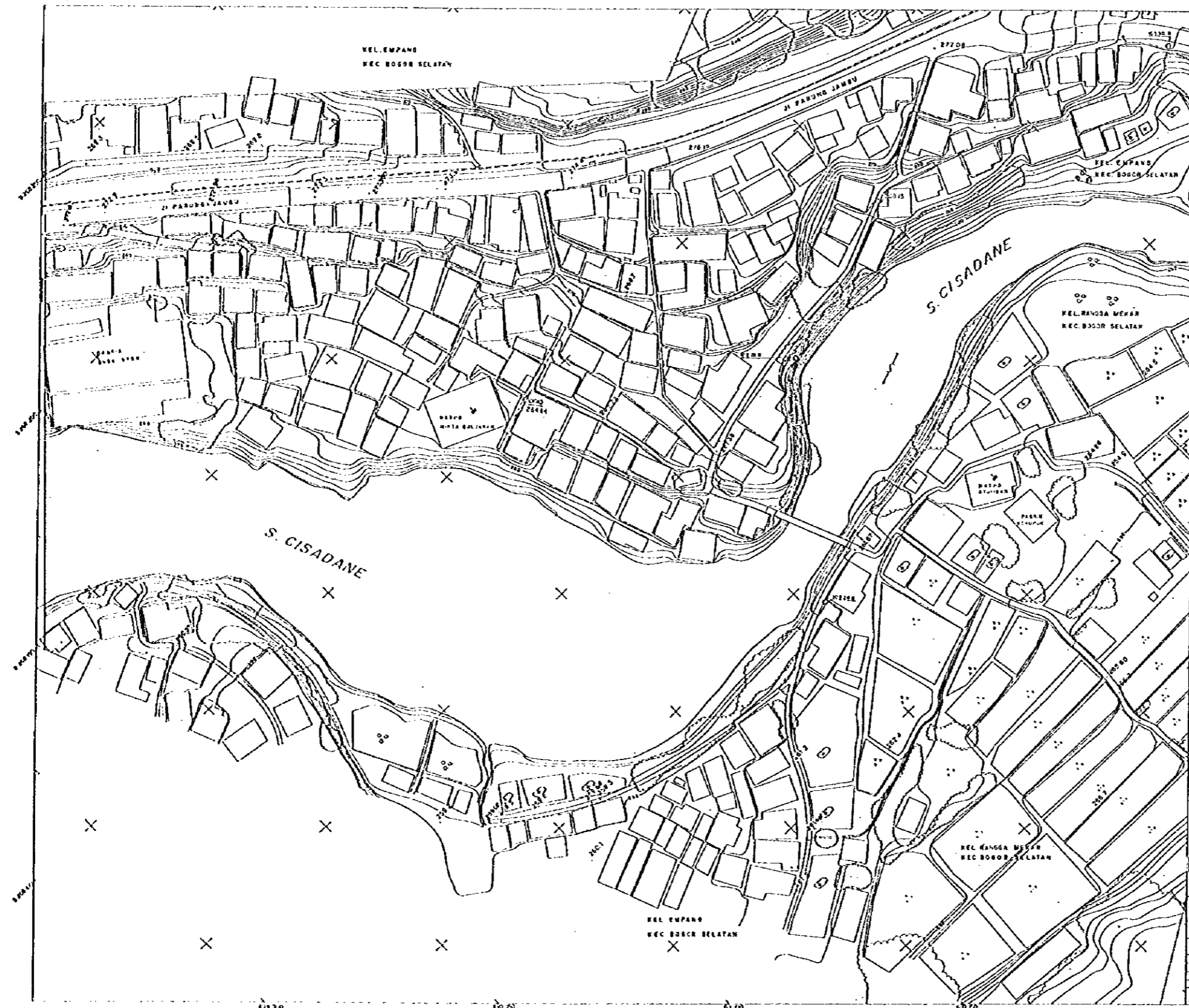


Note: Elevation is based on Mean Sea Level (110 )

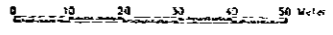
MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK CISADANE RIVER			
SOUNDING SURVEY		CROSS SECTION	
ORDER	APPROVED	SCALE	REVISION
Name	Signature	H = 1 : 1,000 V = 1 : 100	1 / 1
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			PT. ATLAS DELTASATYA



## 5 Topographic Survey along Proposed Ciliwung Floodway



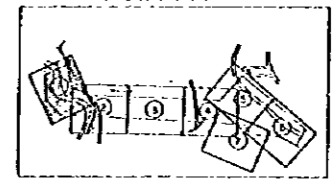
SCALE 1 : 500



- LEGEND
- |                                    |                          |
|------------------------------------|--------------------------|
| ⊙ 805 Elevation Point              | --- Fence                |
| △ 125 Existing Triangulation Point | ⊠ Station                |
| ⊙ 125 GPS Point                    | ⚡ Electric Power Line    |
| ⊠ 125 Existing Bench Mark          | ⊠ Crating and Enclosures |
| ⊙ 125 Spot Leveling                | ⊠ Swamp                  |
| ⊙ 125 Spot Height                  | ⊠ Muslim graves          |
| ⊠ House / Building                 | ⊠ Christian cemetery     |
| ⊠ Paveway                          | ⊠ Circus games           |
| ⊠ Public Hall                      | ⊠ Paddy field            |
| ⊠ Police Station                   | ⊠ Boundary of Vegetation |
| ⊠ Fire Station                     | ⊠ Field                  |
| ⊠ Post Office                      | ⊠ Forest                 |
| ⊠ Mosque                           | ⊠ Grass                  |
| ⊠ Church                           | ⊠ Water hole             |
| ⊠ High Wall                        | ⊠ Suka                   |
| ⊠ School                           | ⊠ Pipe Culvert           |
| ⊠ Market                           | ⊠ Monuments              |
| ⊠ Telephone Office                 | ⊠ Trees                  |
| ⊠ Government Office                | ⊠ Electric Pole          |
| ⊠ Hotel                            | ⊠ Coconut Trees          |
| ⊠ Cinema                           | ⊠ Pond, Lake             |
| ⊠ Road                             | ⊠ Sand                   |
| ⊠ Path                             | ⊠ Land Slide             |
| ⊠ Bridge                           | ⊠ River                  |
| ⊠ Railway                          | ⊠ Road Cut               |
| ⊠ Railway Bridge                   | ⊠ Caution                |

NOTE: This map is compiled by Photogrammetric Mapping based on Aerial Photo scale 1 : 3,500 taken on June, 1958 and field survey data. Horizontal Control by Geomatics GPS Network. Elevation data based on IGC 8, 10 & 11.

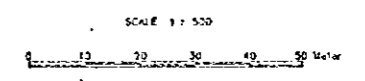
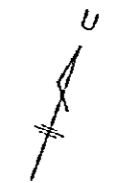
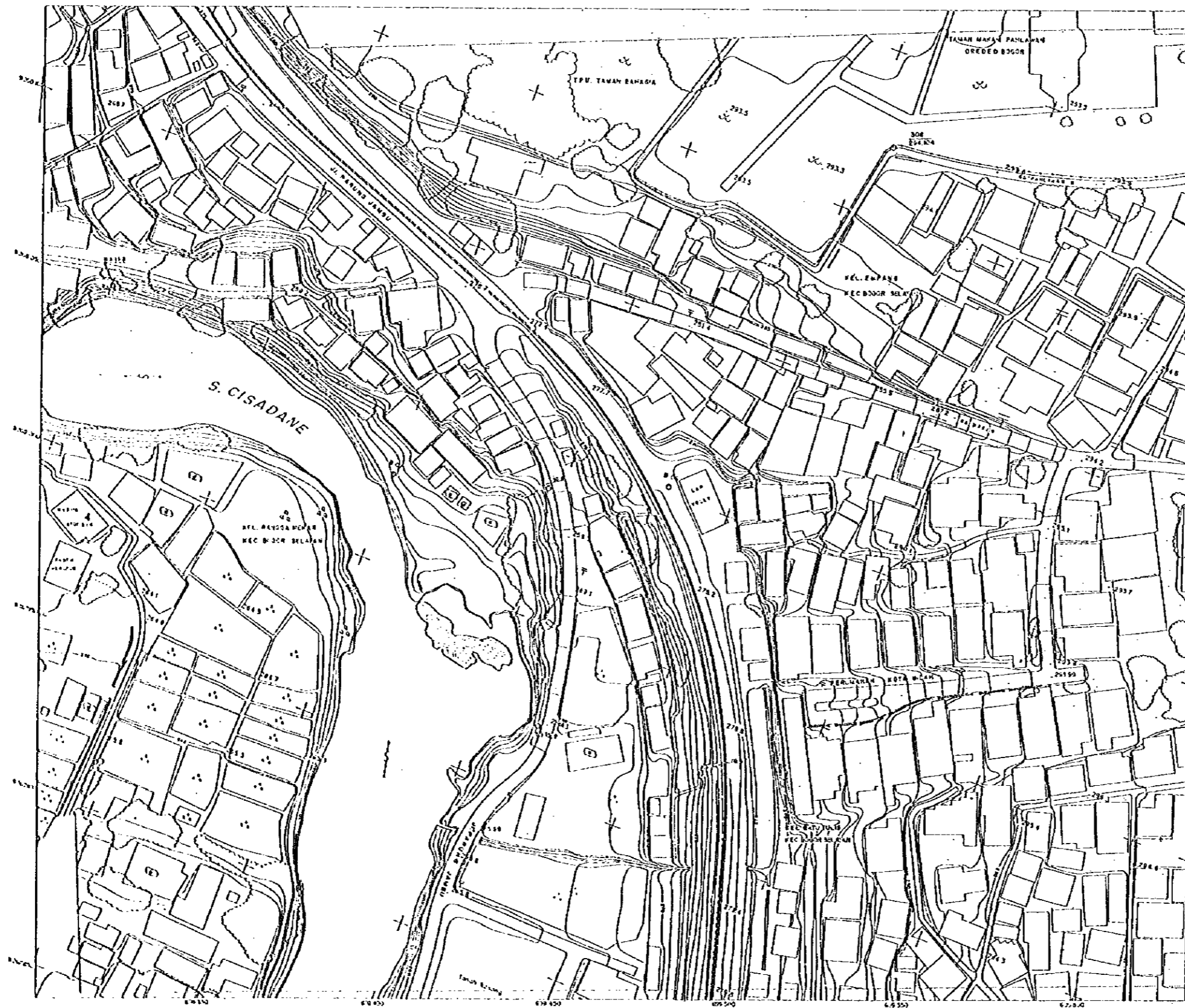
INDEX MAP



MINISTRY OF PUBLIC WORKS  
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

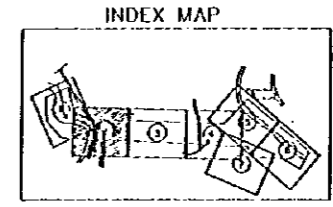
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

TOPO SURVEY		CLIMING FLOODWAY	
CONSULTANT	PROJECT	SCALE	HEET NO.
JICA	Water Resources Development Project	1 : 500	1/7
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATYA	



- LEGEND
- ⊙ Boring Point
  - ⊙ Existing Irrigation Point
  - ⊙ GPS Point
  - ⊙ Existing Bench Mark  
+ 1.25 Meters Above  
+ 1.0 Spot Height
  - ⊙ House / Building
  - ⊙ Factory
  - ⊙ Public Hall
  - ⊙ Police Station
  - ⊙ Fire Station
  - ⊙ Post Office
  - ⊙ Mosque
  - ⊙ Church
  - ⊙ Hospital
  - ⊙ School
  - ⊙ Market
  - ⊙ Telephone Office
  - ⊙ Government Office
  - ⊙ Hotel
  - ⊙ Gas/Pipe Pump
  - ⊙ Road
  - ⊙ Path
  - ⊙ Bridge
  - ⊙ Railway
  - ⊙ Railway Bridge
  - ⊙ Fence
  - ⊙ Station
  - ⊙ Electric Power Line
  - ⊙ Cable and Substation
  - ⊙ Swamp
  - ⊙ Mullet groves
  - ⊙ Citrus grove
  - ⊙ Citrus Grove
  - ⊙ Paddy field
  - ⊙ Boundary of vegetation
  - ⊙ Field
  - ⊙ Forest
  - ⊙ Grass
  - ⊙ Water table
  - ⊙ Drain
  - ⊙ Pipe Culvert
  - ⊙ Warehouse
  - ⊙ Trees
  - ⊙ Electric Pole
  - ⊙ Concrete Pile
  - ⊙ Pond
  - ⊙ Sand
  - ⊙ Land Slide
  - ⊙ River
  - ⊙ Canal

NOTE: This map is compiled by Photogrammetric Mapping Based on Aerial Photo scale 1:3,500 Taken on June, 1978 and Field Survey Data Horizontal Control by Differential GPS Method Elevation data based on IIG 9, 10 & 11



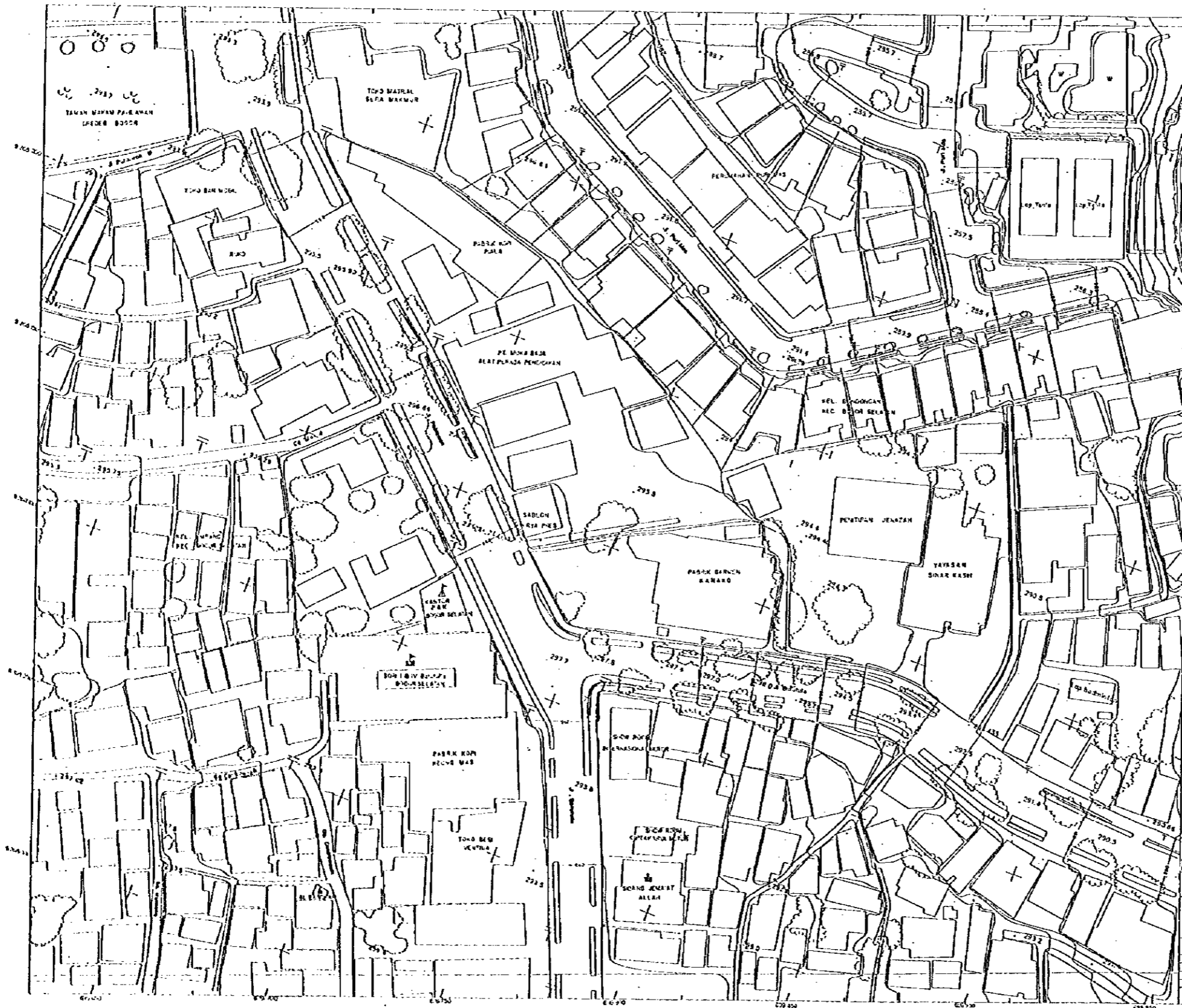
MINISTRY OF PUBLIC WORKS  
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

THE STUDY ON COMPREHENSIVE RIVER  
WATER MANAGEMENT PLAN IN JATOTABEK

TOPO SURVEY  
CILMUNG FLOODWAY

QUANTANT	PROJECT	SCALE	SHEET No. 1
1	1	1 : 500	2/7

JICA JAPAN INTERNATIONAL COOPERATION AGENCY PT. ATLAS DELTASATYA



U

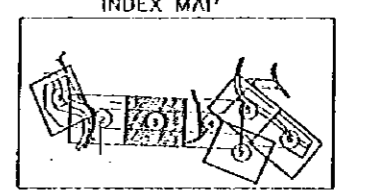
SCALE 1 : 500

0 10 20 30 40 50 Meter

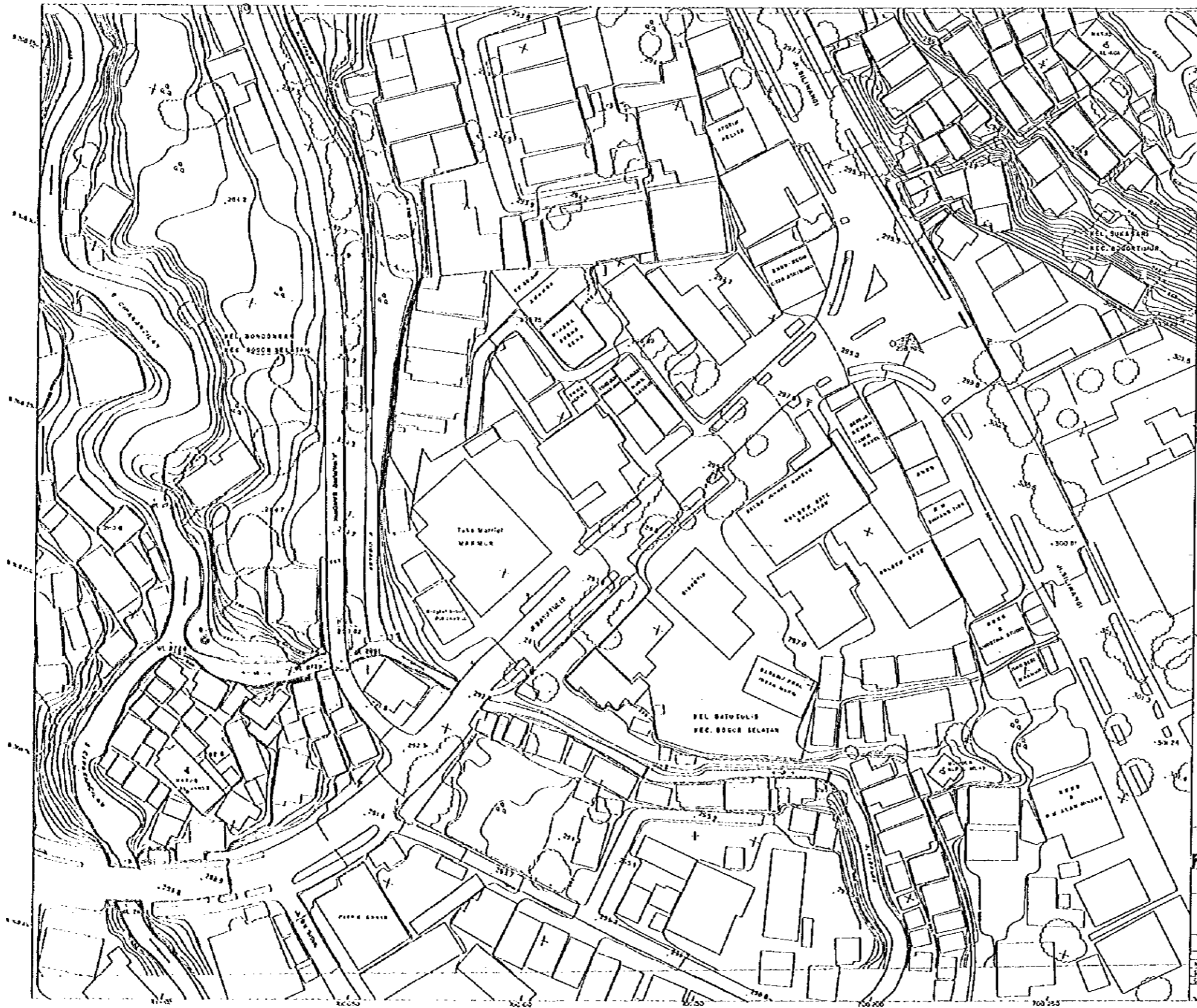
LEGEND

● Existing Point	--- Fence
▲ Existing Mangrove Point	Station
○ Existing Point	Electric Power Line
□ Existing Bench Mark	Cutting and Excavation
• Existing Leveling	Seepage
• 1.0 Spot Height	Utility poles
House / Building	Orchard enclosure
Factory	Orchard grove
Public Hall	Paddy Rice
Police Station	Boundary of Vegetation
Fire Station	Field
Post Office	Forest
Mosque	Grove
Church	Water hole
Hospital	Drain
School	Open Cut-off
Market	Manhole
Telephone Office	Tree
Community Office	Electric Pole
Water	Canal / Pipe
Gas/Water Pump	Pond / Lake
Road	Sand
Path	Soil
Drain	Land Slope
Pathway	R. & River
Railway Bridge	Direction

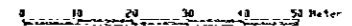
NOTE : This map is compiled by Photogrammetric Mapping based on Aerial Photo scale 1 : 3500 taken on 27th, 1978 and Field Survey Data. Plans and Control by Department of GPS Methods. Elevation data based on 110, 9, 10 & 11.



MINISTRY OF PUBLIC WORKS			
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JADOTANDEK			
TOPO SURVEY		CULMUNG FLOODWAY	
CLIENT	PROJECT	SCALE	SHEET No. 1
DEPT. OF WATER RESOURCES DEVELOPMENT	TOPO SURVEY	1 : 500	3/7
JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATVA	



SCALE 1 : 500

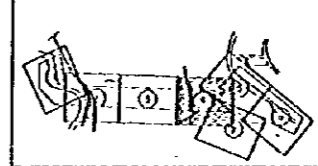


LEGEND

- ⊙ 805 Boring Point
- ▲ 125 Casing Truncation Post
- ⊙ 127 G.S. Point
- ⊠ 128 Existing Bench Mark
- ⊠ 129 Direct Levelling
- ⊠ 130 Spot Height
- ⊠ 131 House / Building
- ⊠ 132 Factory
- ⊠ 133 Public Hall
- ⊠ 134 Police Station
- ⊠ 135 Fire Station
- ⊠ 136 Post Office
- ⊠ 137 Mosque
- ⊠ 138 Church
- ⊠ 139 Hospital
- ⊠ 140 School
- ⊠ 141 Market
- ⊠ 142 Telephone Office
- ⊠ 143 Government Office
- ⊠ 144 Hotel
- ⊠ 145 Gasoline Pump
- ⊠ 146 Road
- ⊠ 147 Path
- ⊠ 148 Bridge
- ⊠ 149 Footway
- ⊠ 150 Footway Bridge
- ⊠ 151 Fence
- ⊠ 152 Station
- ⊠ 153 Electric Power Line
- ⊠ 154 Cutting and Embankment
- ⊠ 155 Swamp
- ⊠ 156 Waste ground
- ⊠ 157 Quarantine cemetery
- ⊠ 158 Church cemetery
- ⊠ 159 Paddy field
- ⊠ 160 Boundary of Vegetation
- ⊠ 161 Field
- ⊠ 162 Forest
- ⊠ 163 Grass
- ⊠ 164 Water hole
- ⊠ 165 Sluice
- ⊠ 166 Pipe Culvert
- ⊠ 167 Monuments
- ⊠ 168 Trees
- ⊠ 169 Electric Pole
- ⊠ 170 Coconut Trees
- ⊠ 171 Pond/Lake
- ⊠ 172 Sand
- ⊠ 173 Land Slide
- ⊠ 174 a. River
- ⊠ 175 b. Rivulet
- ⊠ 176 c. Direction

\* NOTE : This map is compiled by Photogrammetric Method based on Aerial Photo scale 1 : 3300 Taken on June, 1956 and Field Survey Data Horizontal Control by Differential GPS Method Elevation data based on FIG 9, 10 & 11

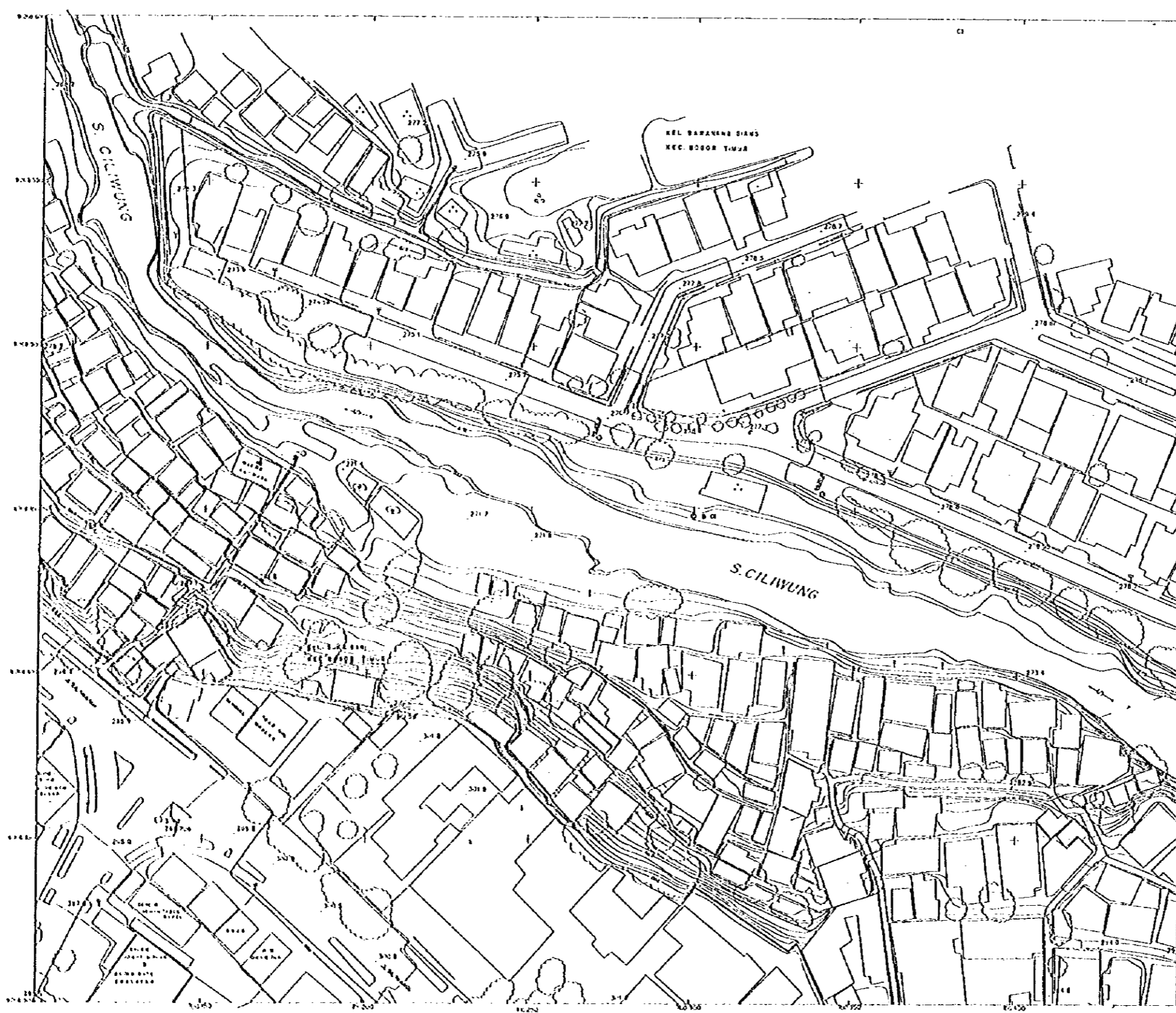
INDEX MAP



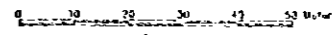
MINISTRY OF PUBLIC WORKS  
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

TOPO SURVEY		CULMUNG FLOODWAY	
OPERATOR	PROJECT	SCALE	SHEET No.
NAME	NO.	1 : 500	4/7
DATE			
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS BELTASAYA	



SCALE 1 : 500

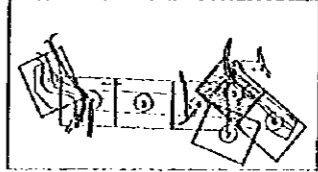


LEGEND

- ⊙ 8.25 Bathy Point
- △ 123 Existing Topographic Point
- ⊙ 123 GPS Point
- 123 Existing Bench Mark
- 123 Bench Marking
- 1.2 Spot Height
- ⊙ House / Building
- ⊙ Factory
- ⊙ Public Hall
- ⊙ Police Station
- ⊙ Fire Station
- ⊙ Post Office
- ⊙ Mosque
- ⊙ Church
- ⊙ Hospital
- ⊙ School
- ⊙ Market
- ⊙ Telephone Office
- ⊙ Government Office
- ⊙ Hotel
- ⊙ Gasoline Pump
- ⊙ Road
- ⊙ Path
- ⊙ Bridge
- ⊙ Railway
- ⊙ Ferry Bridge
- Fence
- ⊙ Station
- 110 kV Electric Power Line
- ⊙ Cable and Entertainment
- ⊙ Swamp
- ⊙ Muslim grave
- ⊙ Christian cemetery
- ⊙ Chinese grave
- ⊙ Paddy field
- ⊙ Boundary of Vegetation
- ⊙ Field
- ⊙ Forest
- ⊙ Grass
- ⊙ Water hole
- ⊙ Stake
- ⊙ Eye Catcher
- ⊙ Monument
- ⊙ Tree
- ⊙ Electric Pole
- ⊙ Control Tower
- ⊙ Flood Line
- ⊙ Sand
- ⊙ Land Slide
- ⊙ River
- ⊙ Channel
- ⊙ Drainage

NOTE : This map is compiled by Photogrammetric Mapping  
 Based on Aerial Photo scale 1 : 3,500  
 Taken on June, 1978 and Field Survey Data  
 Indonesia Census by Differential GPS Method  
 Elevation data based on TIC 9, 10 & 11

INDEX MAP



MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

THE STUDY ON COMPREHENSIVE RIVER  
 WATER MANAGEMENT PLAN IN JABOTABEK

TOPO SURVEY  
 CILUNG FLOODWAY

DATE	PROJECT	SCALE	REVISION
1978	TOPO SURVEY	1 : 500	5/7

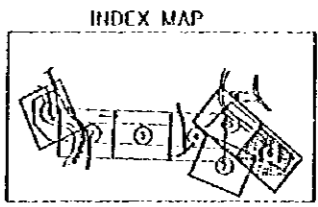
JICA JAPAN INTERNATIONAL COOPERATION AGENCY PT. ATLAS CITASATTA



SCALE 1 : 500  
0 10 20 30 40 50 meter

- LEGEND
- 100 Boring Point
  - △ 125 Boring Interpretive Point
  - 125 Boring Point
  - 125 Boring Bench Mark
  - 125 Boring Leveling
  - 125 Spot Height
  - House / Building
  - Factory
  - Public Hall
  - Police Station
  - Fire Station
  - Post Office
  - Mosque
  - Church
  - Hospital
  - School
  - Market
  - Telephone Office
  - Consulate Office
  - Field
  - Gasoline Pump
  - Road
  - Path
  - Bridge
  - Railway
  - Railway Bridge
  - Fence
  - Station
  - Electric Power Line
  - Culting and Entertainment
  - Swamp
  - Water garden
  - Christmas cemetery
  - Chinese grave
  - Family field
  - Boundary of vegetation
  - Flood
  - Forest
  - Grass
  - Wire side
  - Drain
  - Pigeon hole
  - Monument
  - Tree
  - Electric Pole
  - Coconut Tree
  - P.A. Line
  - Sand
  - Land Site
  - A.A. River
  - Road
  - Direction

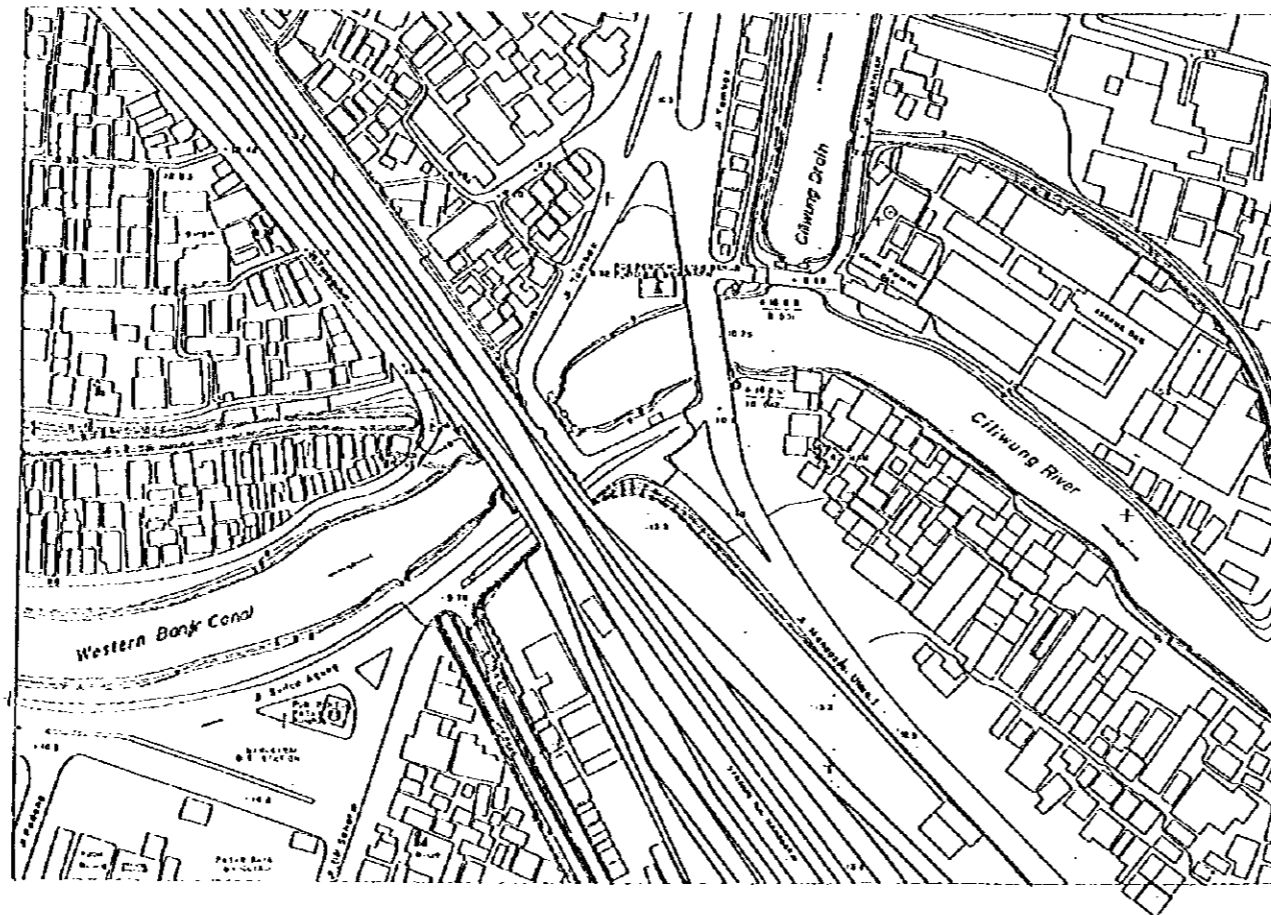
NOTE : This map is compiled by Photogrammetric Mapping  
Based on Aerial Photo scale 1 : 3,500  
Taken on June, 1976 and Field Survey Data  
Horizontal Control by Differential GPS Method  
Elevation data based on PDG B, 10 & 11



MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
TOPO. SURVEY		CILIWUNG FLOODWAY	
CONTRACT NO.	PROJECT NO.	SCALE	SHEET NO.
1000/1000	1000/1000	1 : 500	6/7
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATYA	







SCALE 1:1000



LEGEND

- A Existing Navigation Point
- GPS Point
- 1668 Distance Mark
- Existing Bench Mark
- 123 Crest Height
- 12 Spot Height
- House / B. B. Bag
- Factory
- Public Hall
- Police Station
- Fire Station
- Post Office
- Mosque
- Church
- Hospital
- School
- Market
- Telephone Office
- Government Office
- Hotel
- Gas/Fire Pump
- Road
- Path
- Bridge
- Railway
- Railway Bridge
- Station
- Electric Power Line
- Canal and Enclosure
- Swamp
- Modern grass
- Cultiva enclosure
- Older grass
- Paddy field
- Boundary of Vegetation
- Field
- Forest
- Grove
- Water hole
- Shake
- Pipe Culvert
- Man-made
- Pond Lake
- Sand
- Land Slide
- A. River
- B. River
- C. Direction

NOTE  
 N.Y. Based UTM Zone 48  
 N. Mean sea Level ± 710 250 - 201.1  
 Indes Contour 5 meter  
 Moho Contour 1 meter  
 Supplemented Contour 0.5 meter

MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

THE STUDY ON COMPREHENSIVE RIVER  
 WATER MANAGEMENT PLAN IN JABOTABEK

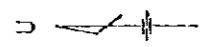
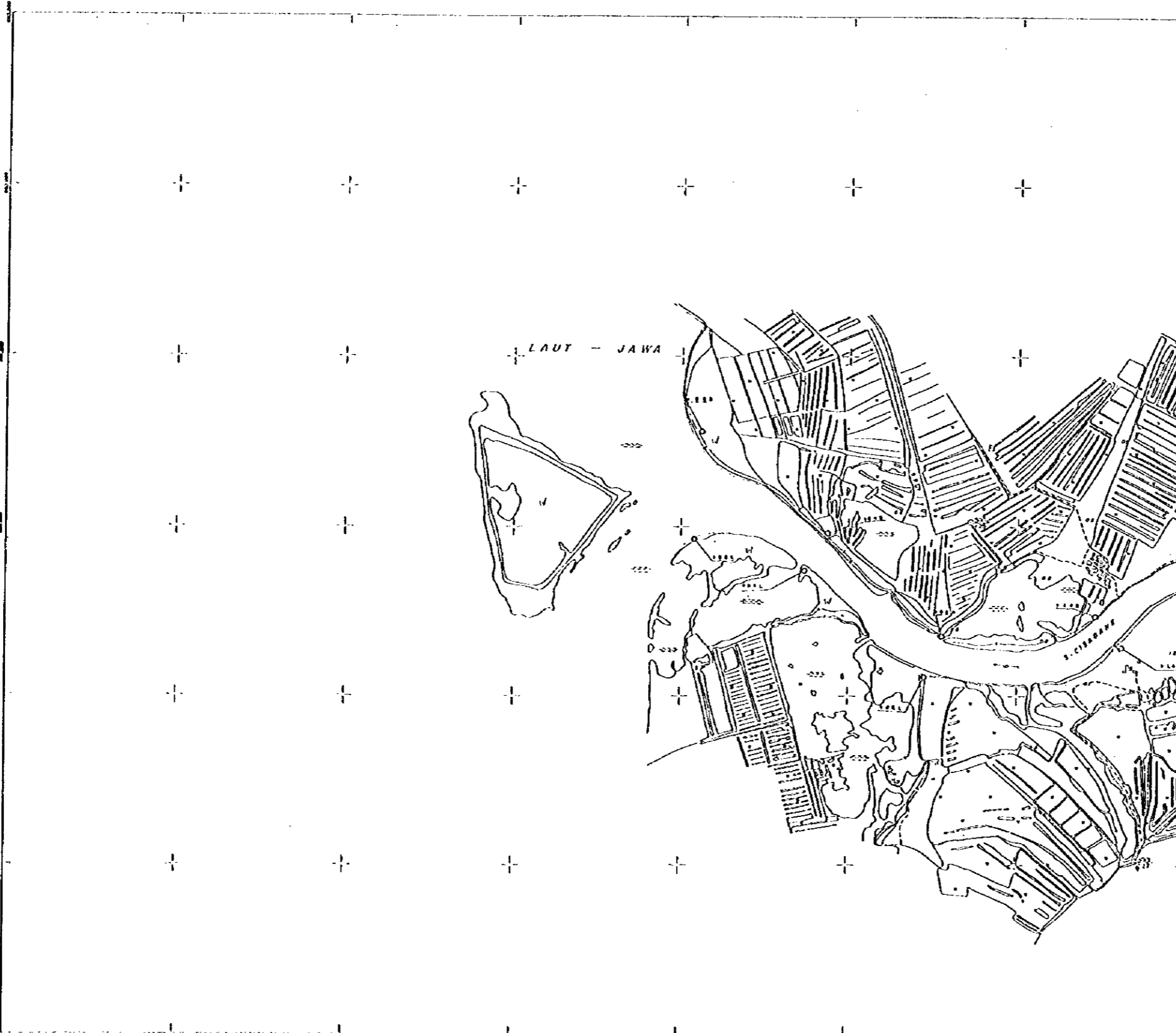
TOPO SURVEY

NAME	COMPONENT	PROJECT	SCALE	SHEET No.
DATE	1982	1982	1 : 1,000	1

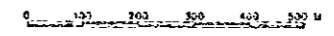
JICA JAPAN INTERNATIONAL COOPERATION AGENCY

PT. ARIAS DELIASATYA

## 6 Topographic Mapping of Cisadane River



SCALE 1 : 5000



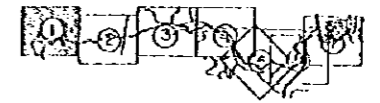
LEGEND

- |                               |                          |
|-------------------------------|--------------------------|
| ▲ 243 Existing Mangrove Plant | ▲ Station                |
| ⊙ 8.04 Bridge Pier            | — Electric Power Line    |
| ⊙ 2.43 Grid Point             | ▨ Canal and Embankment   |
| ⊙ 4.20 Drainage Inlet         | ▨ Swamp                  |
| ⊙ 2043 Existing Bridge Work   | ⊙ Burial ground          |
| ⊙ 2.43 Outlet Weir            | ⊙ Chinese cemetery       |
| ⊙ 2.43 Spill Weir             | ⊙ Chinese graves         |
| ⊙ Concrete Building           | ⊙ Paddy Field            |
| ⊙ House                       | ⊙ Boundary of Vegetation |
| ⊙ Mosque                      | ⊙ Field                  |
| ⊙ Church                      | ⊙ Forest                 |
| ⊙ Hospital                    | ⊙ Grass                  |
| ⊙ School                      | ⊙ Canal Bank             |
| ⊙ Government Office           | ⊙ Water Hole             |
| — Road                        | ⊙ Canal Side             |
| - - - Path                    | ⊙ Canal Side             |
| — Bridge                      | ⊙ Sand                   |
| — Railway                     | ⊙ Land Slide             |

NOTE : N. Y : East to E. Zone 48  
 " " : Mean Sea Level (170 260 - 170 290)

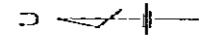
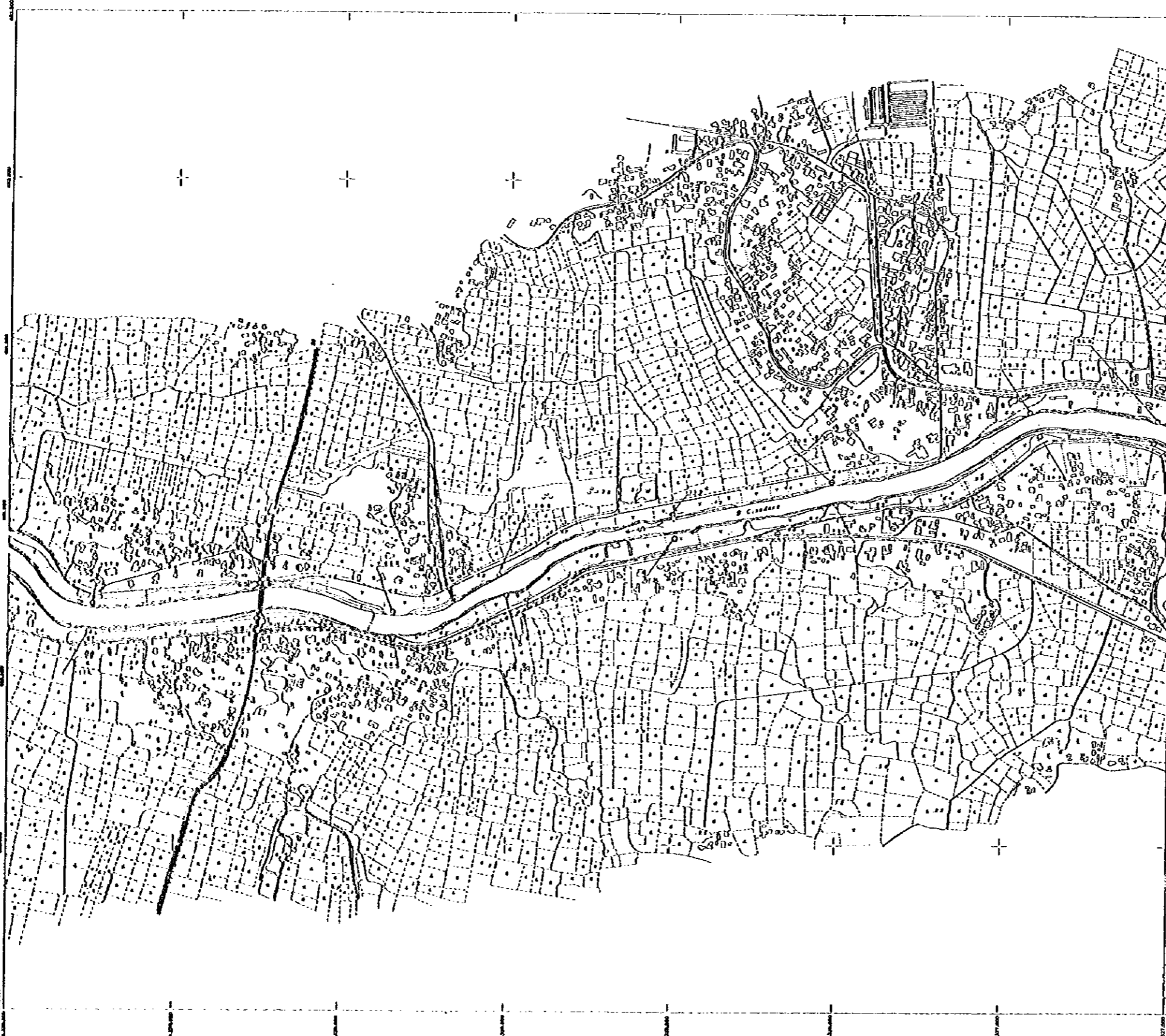
Contour : 10 meter  
 Main Contour : 2 meter  
 Supplemental Contour : 1 meter  
 Aerial Photography : 1 : 10 000  
 Date : 1974

INDEX SHEET

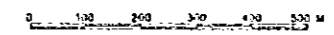


MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
TOPOGRAPHIC MAPPING		RIVER OF DRAWINGS CISADANE RIVER	
Drawn by P. ARAS INTASAYYA	Checked by S. S. S. S.	Approved by S. S. S. S.	Scale 1 : 5,000
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		P. ARAS INTASAYYA	





SCALE 1 : 5000

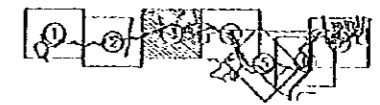


- LEGEND
- |                                   |                        |
|-----------------------------------|------------------------|
| △ 45 Existing Triangulation Point | Station                |
| ○ 245 Bench Mark                  | Electric Power Line    |
| ○ 245 GPS Point                   | Cutting and Embankment |
| ○ 428 Ditch Mark                  | Swamp                  |
| ○ 412 Existing Bench Mark         | Waste ground           |
| • 245 Existing Bench Mark         | Christian cemetery     |
| • 245 Existing Bench Mark         | Chinese grave          |
| • 245 Spot Height                 | Paddy field            |
| □ Concrete Building               | Boundary of Vegetation |
| □ House                           | Field                  |
| □ Mosque                          | Forest                 |
| □ Church                          | Grass                  |
| □ Hospital                        | Ground Base            |
| □ School                          | Water hole             |
| □ Government Office               | Pond, Lake             |
| — Road                            | Sand                   |
| --- Path                          | Loam Soil              |
| — Bridge                          |                        |
| — Railway                         |                        |

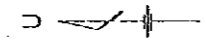
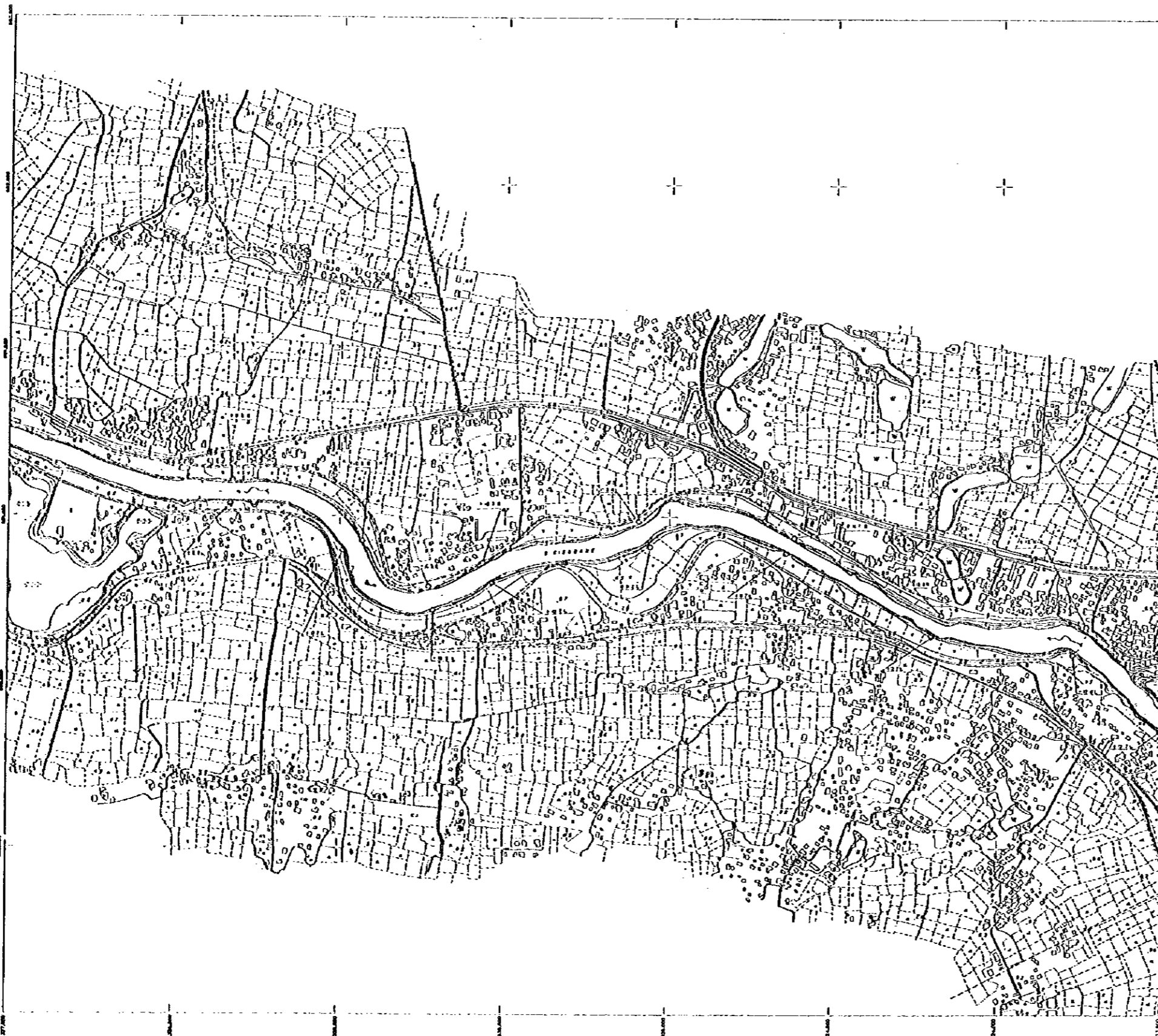
NOTE : N. P. H. : Based on UTM Zone 48  
 Mean Sea Level (110 292-110 781)

Index Contour : 10 meter  
 Main Contour : 2 meter  
 Supplemental Contour : 1 meter  
 Aerial Photography : 1 : 10 000  
 Color Book

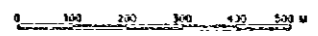
INDEX SHEET



MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JATIDADI			
TOPOGRAPHIC MAPPING		RIVER OF DRINKING CISADANE RIVER	
Scale	Sheet No.	Scale	Sheet No.
1 : 5,000	3/7	1 : 5,000	3/7
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ARIAS DELTASATYA	



Scale 1 : 5000



LEGEND

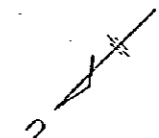
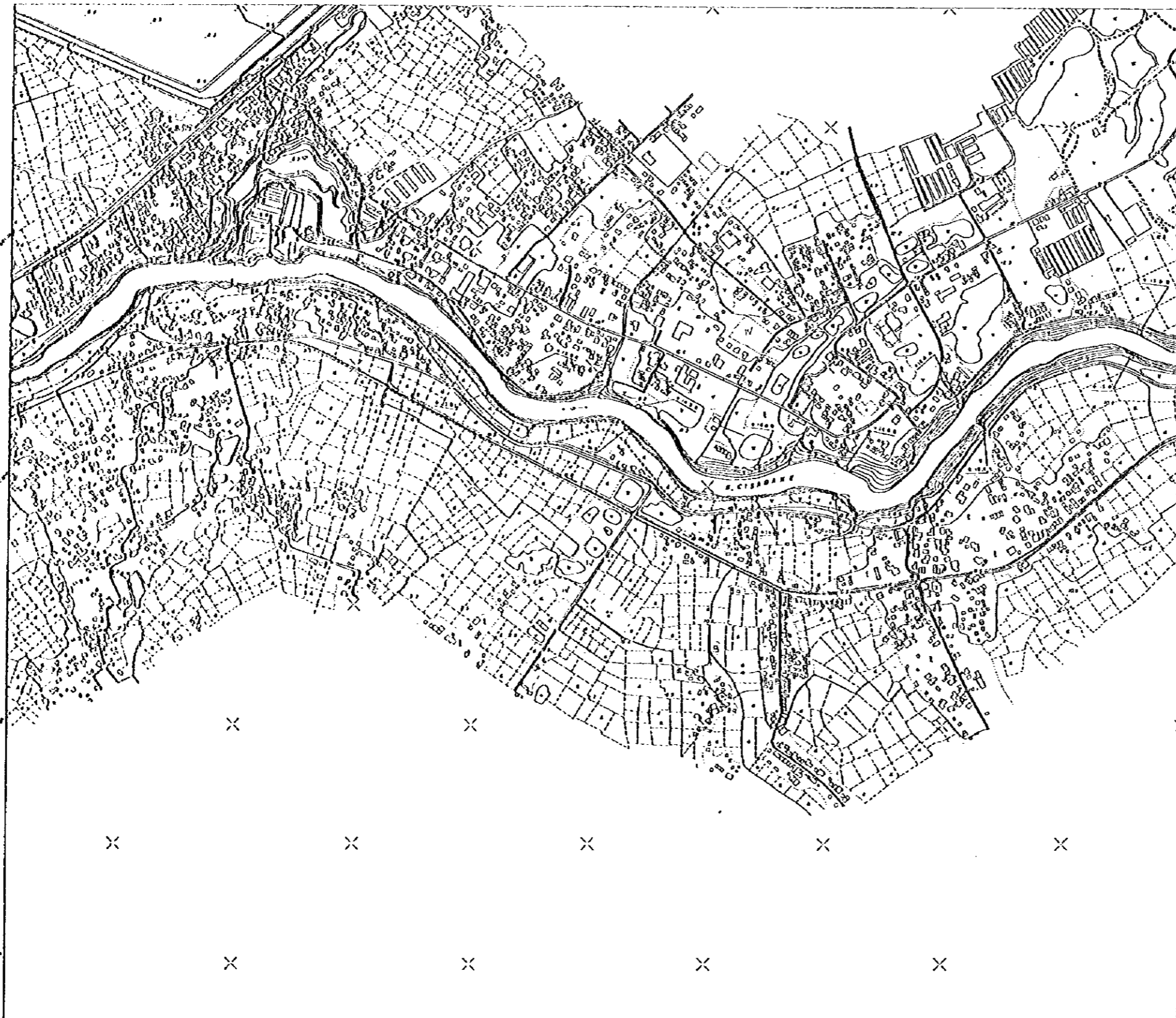
- ▲ 443 Existing Elevation Point
- 818 Boring Point
- 243 GPS Point
- 428 Drone MA
- 432 Existing Bench Mark
- 243 Drone Levelling
- 244 Spot Height
- ▭ Concrete Buffering
- House
- ⊞ Mosque
- ⊞ Church
- ⊞ Hospital
- ⊞ School
- ⊞ Cement Office
- Road
- - - Path
- ≡ Bridge
- ⋯ Railway
- ⊞ Station
- Electric Power Line
- ▨ Cutting and Embankment
- ▨ Swamp
- ⊞ Muslim graves
- ⊞ Christian cemetery
- ⊞ Chinese graves
- ⊞ Paddy field
- ⋯ Boundary of Vegetation
- ∇ Field
- △ Forest
- ∇ Grass
- ⊞ Ground flow
- ⊞ Water hole
- ⊞ Pond, lake
- ⊞ Sand
- ⊞ Land slide

UTM : X, Y  
 W  
 Zone 48  
 Mean Sea Level (1972AD-1982B)  
 Index Contour : 10 meter  
 Main Contour : 2 meter  
 Supplementary Contour : 1 meter  
 Field Photography : 1 : 10 000  
 Aerial Photo : October 2017

INDEX SHEET



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THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JAROTABEK			
TOPOGRAPHIC MAPPING		SITE OF DRAWINGS CISADANE RIVER	
Drawn by Rizki Nur Hafidha	Checked by Vidya Nur Hafidha	Scale 1 : 5,000	Sheet No. 4/7
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ANAS CILASATYA	



SCALE 1 : 5,000



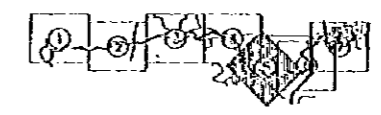
LEGEND

- △ 243 Existing Elevation Point
- 243 Bench Mark
- 243 GPS Point
- 243 Datum Mark
- ▬ Existing Bench Mark
- 243 Data Control
- 24 Spot Height
- ▭ Concrete Building
- ▭ House
- ▭ Mosque
- ▭ Church
- ⊙ Hospital
- ▭ School
- ▭ Government Office
- ▬ Road
- ▬ Path
- ▬ Bridge
- ▬ Railway
- ▬ Station
- ▬ Electric Power Line
- ▬ Cutting and Embankment
- ▬ Swamp
- Muslim graves
- ▬ Christian cemetery
- ▬ Chinese graves
- ▬ Public Edifice
- ▬ Boundary of Vegetation
- ▬ Field
- ▬ Forest
- ▬ Grass
- ▬ Canal/Terrace
- ▬ Water Hole
- Pond/Isle
- ▬ Sand
- ▬ Land Slide

NOTE : X, Y : Based UTM Zone 48  
 H : Mean Sea Level (110200-110280)

Inter Contour : 10 meter  
 Main Contour : 5 meter  
 Supplemental Contour : 1 meter  
 Field Photography : 1 : 10,000  
 Datum : BM

INDEX SHEET

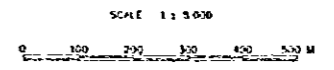
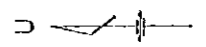
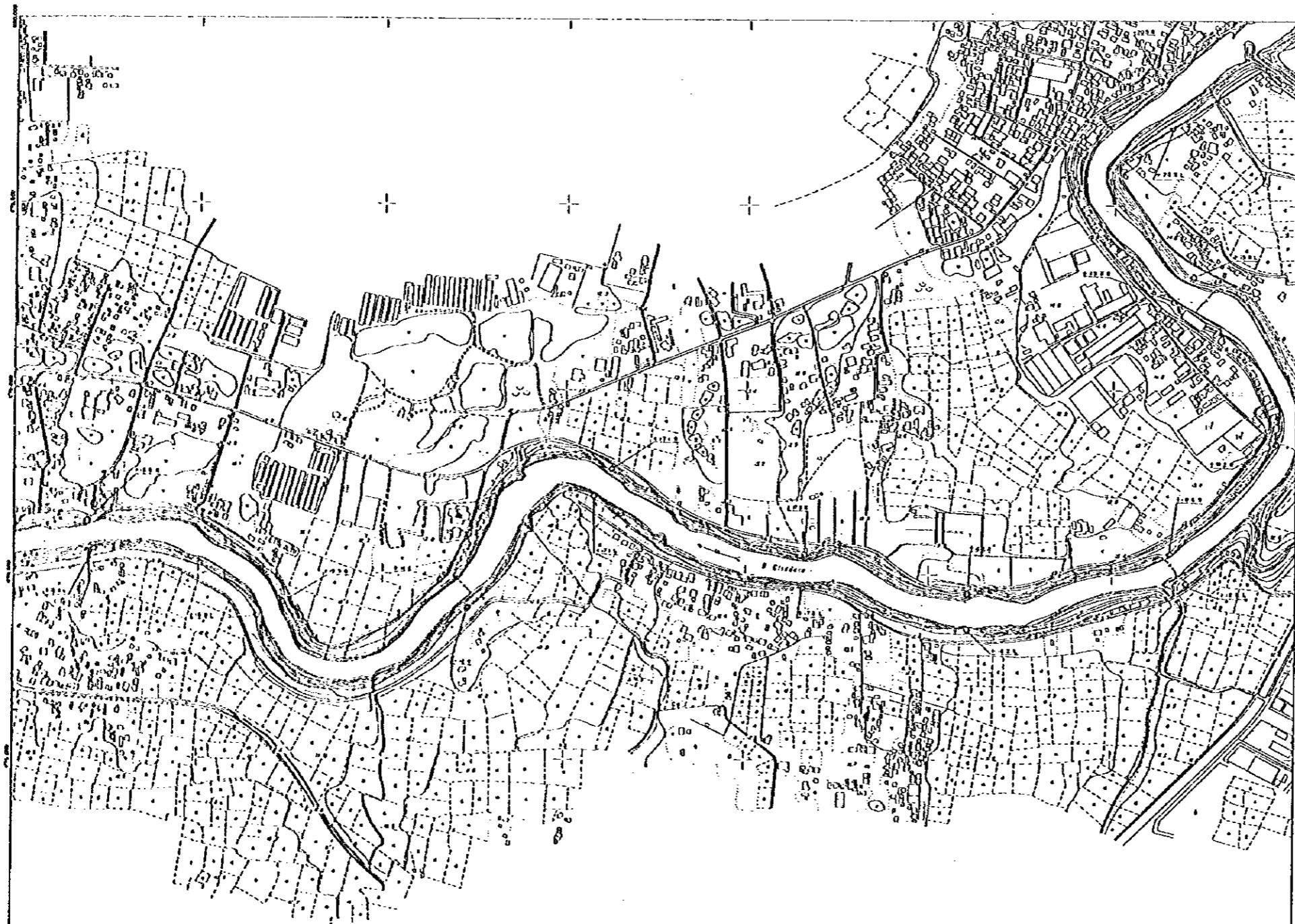


MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT

TITLE STUDY ON COMPREHENSIVE RIVER  
 WATER MANAGEMENT PLAN IN JAKARTA

TOPOGRAPHIC MAPPING  
 FILE OF DRAWINGS  
 CISADANE RIVER

Drawn by	Checked by	SCALE	REVISION
1/1/2014	1/1/2014	1 : 5,000	5/7
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATYA	



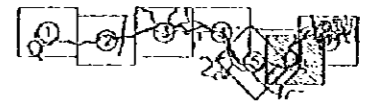
- SYMBOLS
- |                                    |                           |                           |                   |                 |         |          |          |            |          |                     |        |        |          |           |           |                       |                        |         |                |                      |                 |               |                          |        |          |         |                |              |              |        |              |
|------------------------------------|---------------------------|---------------------------|-------------------|-----------------|---------|----------|----------|------------|----------|---------------------|--------|--------|----------|-----------|-----------|-----------------------|------------------------|---------|----------------|----------------------|-----------------|---------------|--------------------------|--------|----------|---------|----------------|--------------|--------------|--------|--------------|
| ▲ 243 Existing Triangulation Point | ○ 243 Existing Bench Mark | ○ 243 Existing Bench Mark | ○ 243 Spot Height | □ Concrete Bldg | □ House | □ Mosque | □ Church | ○ Hospital | □ School | □ Government Office | — Post | — Path | — Bridge | — Railway | △ Station | — Electric Power Line | — Cultig and Enclosure | — Swamp | — Muslim grave | — Christian cemetery | — Chinese grave | — Paddy field | — Boundary of vegetation | — Plot | — Forest | — Grass | — Canal/Stream | — Water hole | — Pond, Lake | — Sand | — Land Slide |
|------------------------------------|---------------------------|---------------------------|-------------------|-----------------|---------|----------|----------|------------|----------|---------------------|--------|--------|----------|-----------|-----------|-----------------------|------------------------|---------|----------------|----------------------|-----------------|---------------|--------------------------|--------|----------|---------|----------------|--------------|--------------|--------|--------------|

W.T.C. : 2, 7

Band UTM Zone 48  
Mean Sea Level (116780-11626)

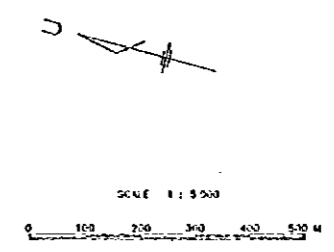
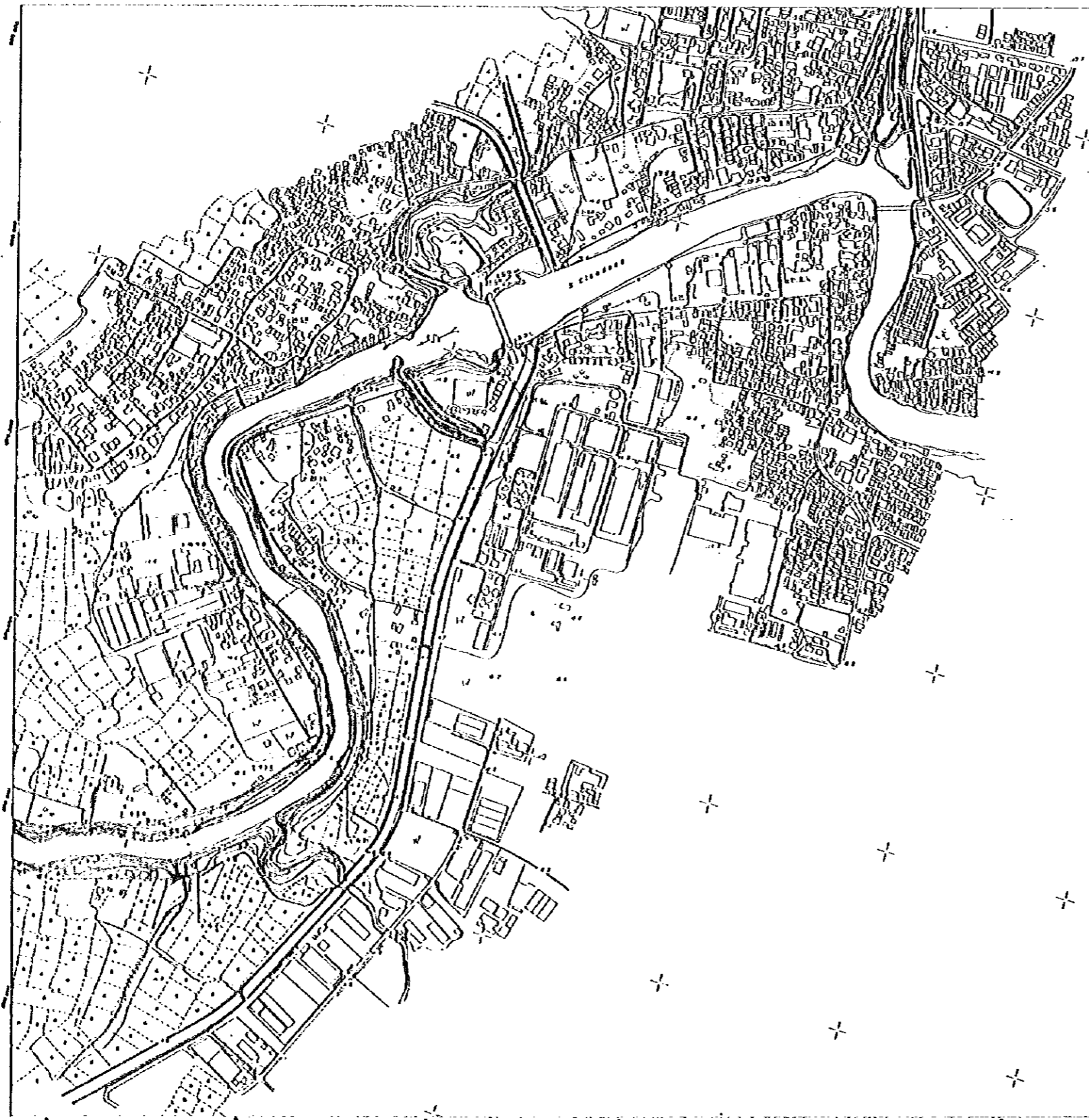
Width Contour : 10 meter  
Water Contour : 2 meter  
Spot Height Contour : 1 meter  
Aerial Photography : 1 : 10,000  
Order 624

INDEX SHEET



MINISTRY OF PUBLIC WORKS		DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
TOPOGRAPHIC MAPPING		RIVER OF CHANNELS	
		GISADANE RIVER	
Created by	Approved by	SCALE	Sheet No.
1/2/73	1/2/73	1 : 5,000	6/7
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. AIRAS DELTASATYA	



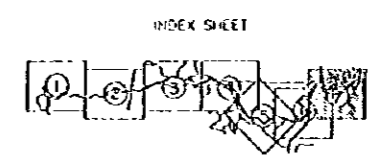


LEGEND

△ 43 Existing Triangulation Point	Station
○ 43 Existing Pole	Double Power Line
○ 43 GPS Point	Contig and Enclosure
○ 43 Existing Bench Mark	Swamp
○ 43 Existing Bench Mark	Mulch grove
○ 43 Existing Bench Mark	Orchard cemetery
○ 43 Existing Bench Mark	Orchard grove
○ 43 Existing Bench Mark	Paddy field
○ 43 Existing Bench Mark	Boundary of vegetation
○ 43 Existing Bench Mark	Field
○ 43 Existing Bench Mark	Forest
○ 43 Existing Bench Mark	Class
○ 43 Existing Bench Mark	Cumulative
○ 43 Existing Bench Mark	Water table
○ 43 Existing Bench Mark	Pond, lake
○ 43 Existing Bench Mark	Soil
○ 43 Existing Bench Mark	Land Use

NOTE: 1. X, Y : Based UTM Zone 48  
 2. 1986 Sea Level (110 283-717 281)

Index Contour : 10 meter  
 Main Contour : 5 meter  
 Supplemental Contour : 1 meter  
 Photo Topography : 1 : 10 000  
 Date 8/84



MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT			
THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK			
TOPOGRAPHIC MAPPING		CISADANE RIVER	
Drawn by P. 22	Checked by P. 22	Scale 1 : 5,000	Sheet No. 7/7
JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ANAS DELTASATYA	

100