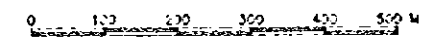


SCALE 1 : 5 000



LEGEND

- △ Celestial Triangulation Point
- ⊙ GPS Point
- Celestial Bench Mark
- Spot height
- ⊙ River
- ▭ Concrete Building (has 4th floor)
- ▭ House
- ⊙ Mosque
- ⊙ Church
- ⊙ Hospital
- ⊙ School
- ⊙ Government Office
- Road
- Path
- ≡ Bridge
- ⋯ Railway
- ⊙ Station
- Electric Power Line
- ▭ Cutting and Embankment
- ⊙ Swamp
- ⊙ Modern grass
- ⊙ Orphan cemetery
- ⊙ Chinese grass
- ⊙ Paddy field
- ⋯ Boundary of Vegetation
- ∇ Field
- ⊙ Forest
- ∇ Grass
- ⊙ Water hole
- ⊙ Pond, lake
- ⊙ Sand
- ⊙ Land Slide

	1208-434										1208-444									
N 10° 00' 00"	19	20	21	22	23	24	25	26	27	28	16	17	18	19	20	21	22	23	24	
N 09° 00' 00"	23	24	25	26	27	28	29	30	31	32	21	22	23	24	25	26	27	28	29	
N 08° 00' 00"	27	28	29	30	31	32	33	34	35	36	25	26	27	28	29	30	31	32	33	
N 07° 00' 00"	31	32	33	34	35	36	37	38	39	40	29	30	31	32	33	34	35	36	37	
N 06° 00' 00"	35	36	37	38	39	40	41	42	43	44	33	34	35	36	37	38	39	40	41	
N 05° 00' 00"	39	40	41	42	43	44	45	46	47	48	37	38	39	40	41	42	43	44	45	
N 04° 00' 00"	43	44	45	46	47	48	49	50	51	52	41	42	43	44	45	46	47	48	49	
N 03° 00' 00"	47	48	49	50	51	52	53	54	55	56	45	46	47	48	49	50	51	52	53	
N 02° 00' 00"	51	52	53	54	55	56	57	58	59	60	49	50	51	52	53	54	55	56	57	
N 01° 00' 00"	55	56	57	58	59	60	61	62	63	64	53	54	55	56	57	58	59	60	61	
N 00° 00' 00"	59	60	61	62	63	64	65	66	67	68	57	58	59	60	61	62	63	64	65	
	1208-432										1208-442									

X, Y : Based UTM Zone 48  
 M : Mean Sea Level (TIG)

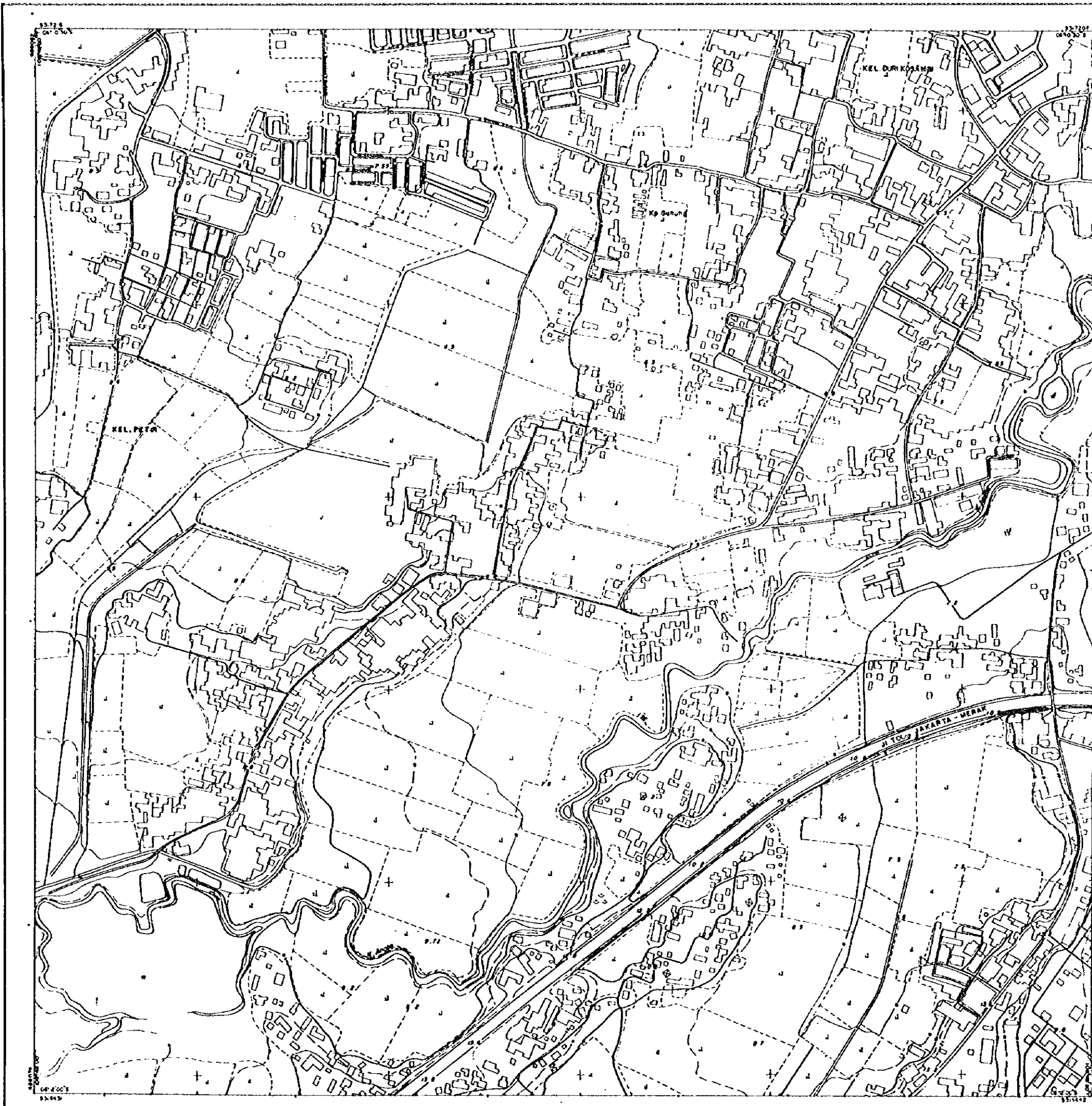
Index contour : 10 meter  
 Main contour : 2 meter  
 Supplementary contour : 1 meter  
 Aerial photography : 1 : 4000  
 October 1994

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

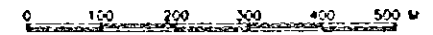
Drawing Title: **TOPOGRAPHIC MAP**

Drawn by	Checked by	Approved by	Field Party No.
Surabaya	Surabaya	Surabaya	1995 19
1995 19	1995 19	1995 19	1995 19
Date	Date	Date	Date
8-2-96	8-2-96	8-2-96	8-2-96

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY  
 P.T. ATLAS DELTASATYA 208-432



SCALE 1:5000



LEGEND

- △ Existing Triangulation Point
- ⊙ GPS Point
- ⊠ Existing Bench Mark
- Spot Height
- ⊞ River
- ⊞ 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
- ⊞ Orisess graves
- ⊞ Paddy field
- ⊞ Boundary of Vegetation
- ⊞ Field
- ⊞ Forest
- ⊞ Grass
- ⊞ Water hole
- ⊞ Pond, lake
- ⊞ Sand
- ⊞ Land Side

	1208-434				1208-444			
1208-424	19	20	21	22	23	24	25	26
1208-434	27	28	29	30	31	32	33	34
1208-444	35	36	37	38	39	40	41	42
1208-454	43	44	45	46	47	48	49	50
1208-464	51	52	53	54	55	56	57	58
1208-474	59	60	61	62	63	64	65	66
1208-484	67	68	69	70	71	72	73	74
1208-494	75	76	77	78	79	80	81	82
1208-504	83	84	85	86	87	88	89	90
	1208-432				1208-442			

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

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

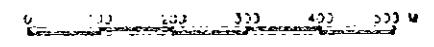
Drawn by: **TOPOGRAPHIC MAP**

Checked by:	Approved by:	Field Party No. 01
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	April 21, 1994
Date: 6/2/94	Date: 6/2/94	Field Party No. 01

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY **PE. ARAS DELTASATTA**

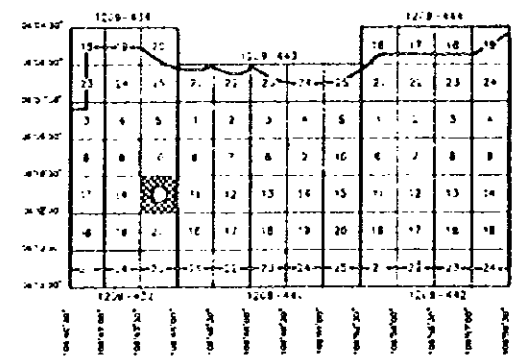


SCALE 1:5000



LEGEND

- △ Casting Irregular Point
- D/S Point
- ⊙ Elevation Bench Mark
- Spot Height
- ~ River
- ▭ Concrete Building (more than 4m floor)
- House
- ⊞ Mosque
- ⊞ Church
- ⊞ Hospital
- ⊞ School
- ⊞ Government Office
- Road
- - - Path
- ⊞ Bridge
- ⊞ Railway
- ⊞ Station
- Electric Power Line
- ▭ Cutting and Embankment
- ⊞ Swamp
- ⊞ Mosaic grass
- ⊞ Christian cemetery
- ⊞ Chinese graves
- ⊞ Paddy fields
- ⊞ Boundary of vegetation
- ⊞ Field
- ⊞ Forest
- ⊞ Grass
- ⊞ Water hole
- ⊞ Pond hole
- ⊞ Sand
- ⊞ Road Side



Scale: UTM Zone 48  
Mean sea level (MSL)

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

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

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

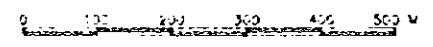
**TOPOGRAPHIC MAP**

Checked by	Approved by	Field Survey
Signature	Signature	Date
Date	Date	Date

JICA JAPAN INTERNATIONAL COOPERATION AGENCY



SCALE 1 : 20 000



LEGEND

- △ Existing Triangulation Point
- GPS Point
- ⊠ Existing Set-back Mark
- Spot Height
- ~ River
- ▭ Concrete Building (more than 4m floor)
- ▭ House
- ▭ Mosque
- ⊕ Church
- ⊕ Hospital
- ⊕ School
- ⊕ Government Office
- ▭ Pond
- ▭ Field
- ⊕ Bridge
- ⊕ Railway
- ⊕ Station
- ⊕ Electric Power Line
- ⊕ Cutting and Embankment
- ⊕ Seam
- ⊕ Moslem graves
- ⊕ Christian cemetery
- ⊕ Chinese graves
- ⊕ Paddy field
- ⊕ Boundary of vegetation
- ⊕ Field
- ⊕ forest
- ⊕ Grass
- ⊕ Water hole
- ⊕ Pond lake
- ⊕ Sand
- ⊕ Landslide



X, Y Bessel UTM Zone 48  
MAPN 488 level (TTC)

Index contour 10 meter  
Main contour 2 meter  
Supplemental contour 1 meter  
Aerial photography 1:20 000 May 1974

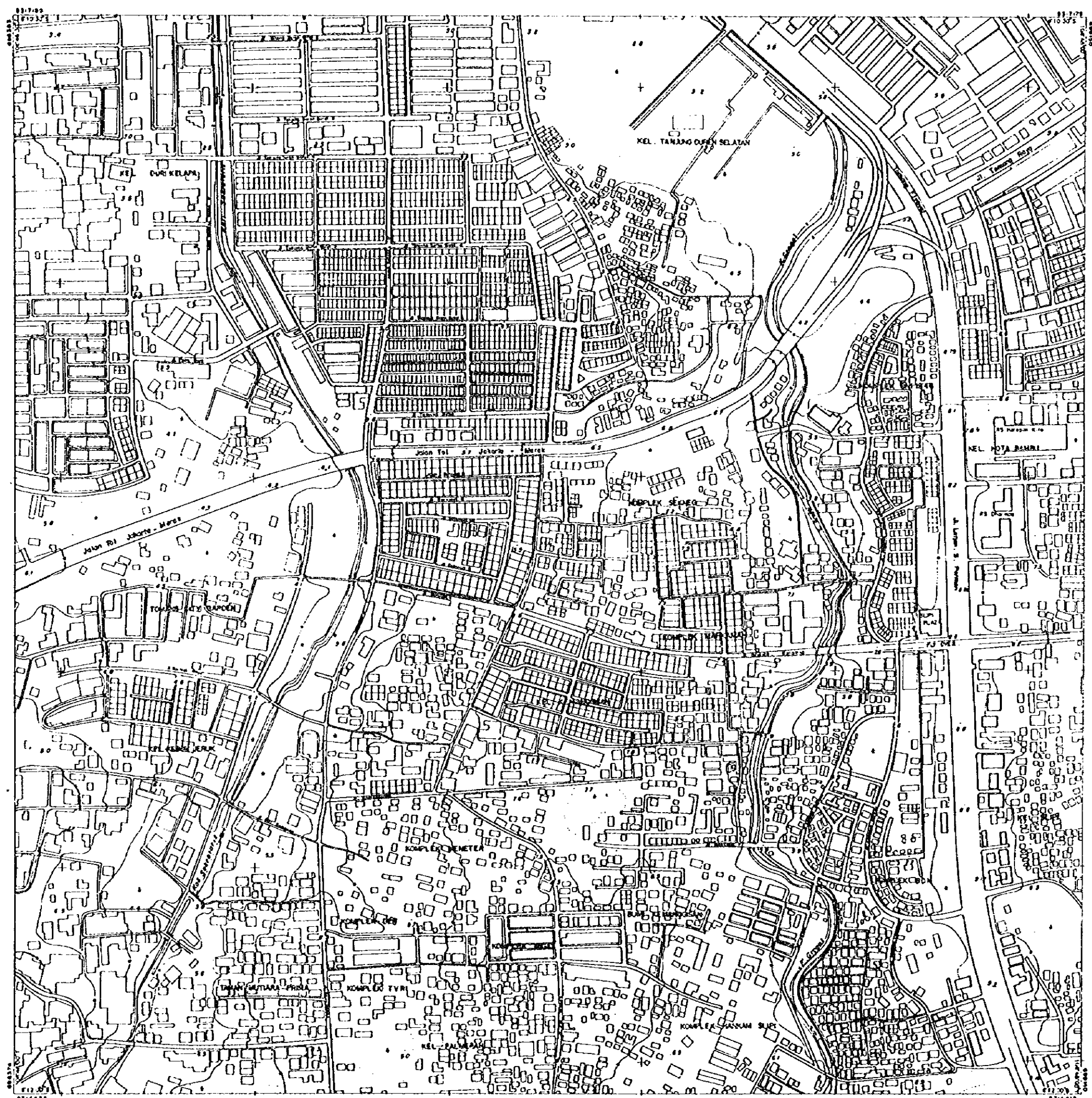
**MINISTRY OF PUBLIC WORKS**  
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
DIWUNG DISADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

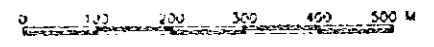
TOPOGRAPHIC MAP

Drawn by	Surabaya	Signature	Approved by	Signature	Date
Checked by	Surabaya	Signature	Approved by	Signature	Date
Scale	1:20 000	Sheet No.	11		

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
DPT. ARAS DELTASATRA



SCALE 1 : 5000



LEGEND

- ▲ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot height
- ~ River
- ▭ Concrete Building (more than 4th floor)
- ▭ House
- ⊕ Mosque
- ⊕ Church
- ⊕ School
- ⊕ Government Office
- ▭ Road
- ▭ Dam
- ▭ Bridge
- ▭ Railway
- ⊕ Station
- ▭ Electric Power Line
- ▭ Cutting and Embankment
- ▭ Swamp
- ⊕ Mason grave
- ⊕ Christian cemetery
- ⊕ Chinese grave
- ▭ Paddy Field
- ▭ Boundary of vegetation
- ▭ Field
- ▭ Forest
- ▭ Grass
- ⊕ Water hole
- ⊕ Pond, lake
- ⊕ Sand
- ▭ Land Slide

	100-124					100-144					100-164					100-184									
100-100	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
100-110	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
100-120	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
100-130	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
100-140	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
100-150	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
100-160	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
100-170	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
100-180	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
100-190	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
100-200	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92

K. Y. Basal UTM Zone 48  
 Mean sea level (TGD)

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

**MINISTRY OF PUBLIC WORKS**  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 DURING OSADAME RIAR BASIN DEVELOPMENT PROJECT

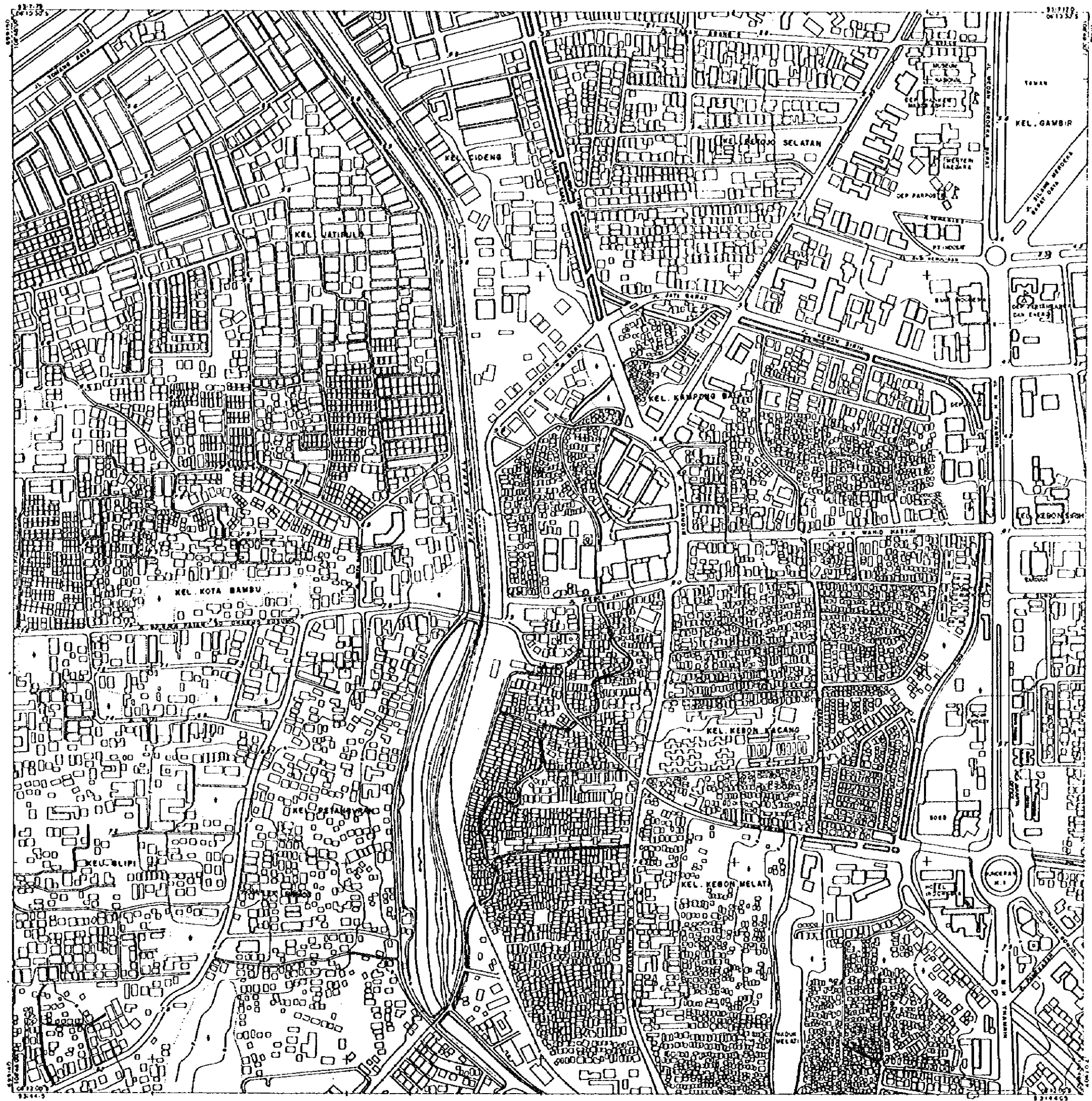
THE STUDY ON COMPREHENSIVE RIVER WATER  
 MANAGEMENT PLAN IN JABOTABEK

Drawing Title: **TOPOGRAPHIC MAP**

Checked by	Approved by	File No.
Sumarto	W. S. S.	100-100
Signature	Signature	Date
6/2/96	6/2/96	6/2/96

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

PT. ARAS DELASATRA



SCALE 1:5000



LEGEND

- △ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot Height
- ~ River
- ▭ Concrete Building (more than 4 floors)
- ▭ 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
- Paddy field
- Boundary of vegetation
- Field
- Forest
- Grass
- Water hole
- Pond, lake
- Sand
- Land Slide

	1208-434				1208-444						
1208-424	18	19	20	21	22	23	24	25	26	27	28
1208-434	25	24	23	22	21	20	19	18	17	16	15
1208-444	8	9	10	11	12	13	14	15	16	17	18
1208-454	13	14	15	16	17	18	19	20	21	22	23
1208-464	18	19	20	21	22	23	24	25	26	27	28
1208-474	23	24	25	26	27	28	29	30	31	32	33
	1208-434				1208-444						

X, Y : UTM Zone 48  
 n : Measured level (RTG)

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

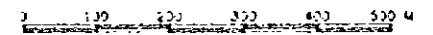
**MINISTRY OF PUBLIC WORKS**  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 OJONGKARANG RIVER BASIN DEVELOPMENT PROJECT  
 THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

Drawing Title : **TOPOGRAPHIC MAP**

Checked by	Approved by	Field Survey 92.08
Name : Sumarto	Name : [Signature]	and in 92.10
Signature : [Signature]	Signature : [Signature]	Partly 92.10
Date : 6.5.94	Date : 6.5.94	Final Drawing 94.05
<b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY		<b>PT. ARAS DELTASATYA</b>



SCALE = 5000



LEGEND

- △ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot height
- ~ River
- ▣ Concrete Bldg (more than 4m high)
- ▤ House
- ▥ Mosque
- ▧ Church
- ⊙ Hospital
- ▩ School
- Government Office
- Road
- Path
- Bridge
- Railway
- ⊕ Station
- Electric Power Line
- ▨ Cutting and Embankment
- ▩ Swamp
- ~ Mosaic grass
- ⊕ Christian cemetery
- ~ Chinese graves
- ▩ Paddy field
- Boundary of Vegetation
- ~ Field
- ~ Forest
- ~ Grass
- ~ Water hole
- ~ Pond, lake
- ~ Sand
- ~ Land Slide

	122-424		1220-444	
1220-434	18 19 20	21 22 23	24 25 26	27 28 29
1220-435	30 31 32	33 34 35	36 37 38	39 40 41
1220-436	42 43 44	45 46 47	48 49 50	51 52 53
1220-437	54 55 56	57 58 59	60 61 62	63 64 65
1220-438	66 67 68	69 70 71	72 73 74	75 76 77
1220-439	78 79 80	81 82 83	84 85 86	87 88 89
1220-440	90 91 92	93 94 95	96 97 98	99 100 101
1220-441	102 103 104	105 106 107	108 109 110	111 112 113
1220-442	114 115 116	117 118 119	120 121 122	123 124 125

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

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

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

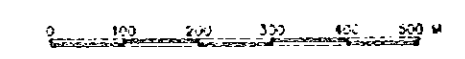
Drawing No. **TOPOGRAPHIC MAP**

Drawn by	Checked by	Approved by	Date
Signature	Signature	Signature	Field Survey 93/94
Date	Date	Date	Field 94/95
			Plotting 95/96
			Final Drawing 96/97

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 PT. ANAS DELTASATYA  
 14

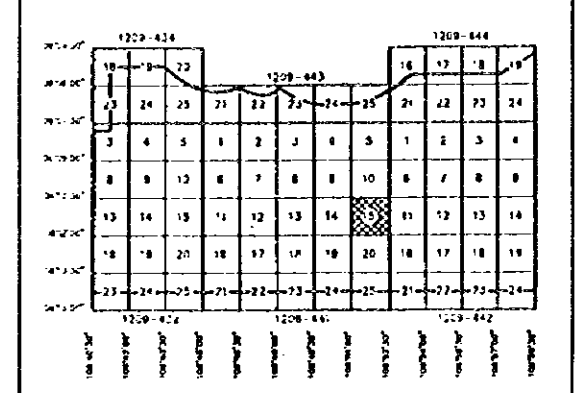


SCALE 1:5000



LEGEND

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



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

1/250 contour : 10 meter  
 Main contour : 2 meter  
 Supplemental contour : 1 meter  
 Aerial photography : 1:20,000  
 May 1974

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

Drawing Title : **TOPOGRAPHIC MAP**

Checked By	Approved By	Date
Signature: [Signature]	Signature: [Signature]	30-1-74
Signature: [Signature]	Signature: [Signature]	30-1-74

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 DR. P. ARAS GELASATRA 1200-441



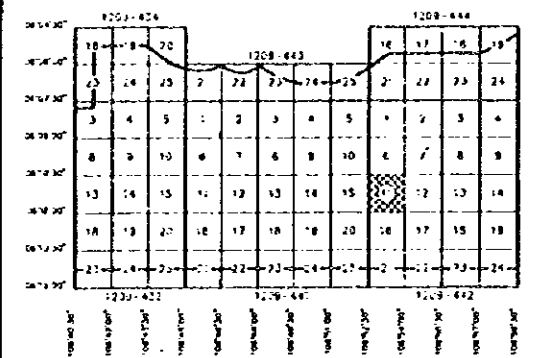


SCALE 1:5000



LEGEND

- |   |                                       |       |                        |
|---|---------------------------------------|-------|------------------------|
| △ | Existing Triangulation Point          | ⊕     | Station                |
| ○ | GPS Point                             | —+—   | Electric Power Line    |
| ⊙ | Existing Bench Mark                   | —+—+— | Cutting and Embankment |
| • | Spot Height                           | ⊖     | Swamp                  |
| ⊖ | River                                 | ⊖     | Mosque graves          |
| ⊖ | Concrete Building (more than 4 floor) | ⊖     | Christian cemetery     |
| ⊖ | House                                 | ⊖     | Chinese graves         |
| ⊖ | Mosque                                | ⊖     | Paddy field            |
| ⊖ | Church                                | ⊖     | Boundary of Vegetation |
| ⊖ | Health                                | ⊖     | Field                  |
| ⊖ | School                                | ⊖     | Forest                 |
| ⊖ | Government Office                     | ⊖     | Grass                  |
| — | Road                                  | ⊖     | Water hole             |
| — | Path                                  | ⊖     | Ford lake              |
| — | Bridge                                | ⊖     | Sand                   |
| — | Polity                                | ⊖     | Land slide             |



X, Y Easting UTM Zone 48  
N Mean sea level (TTO)

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

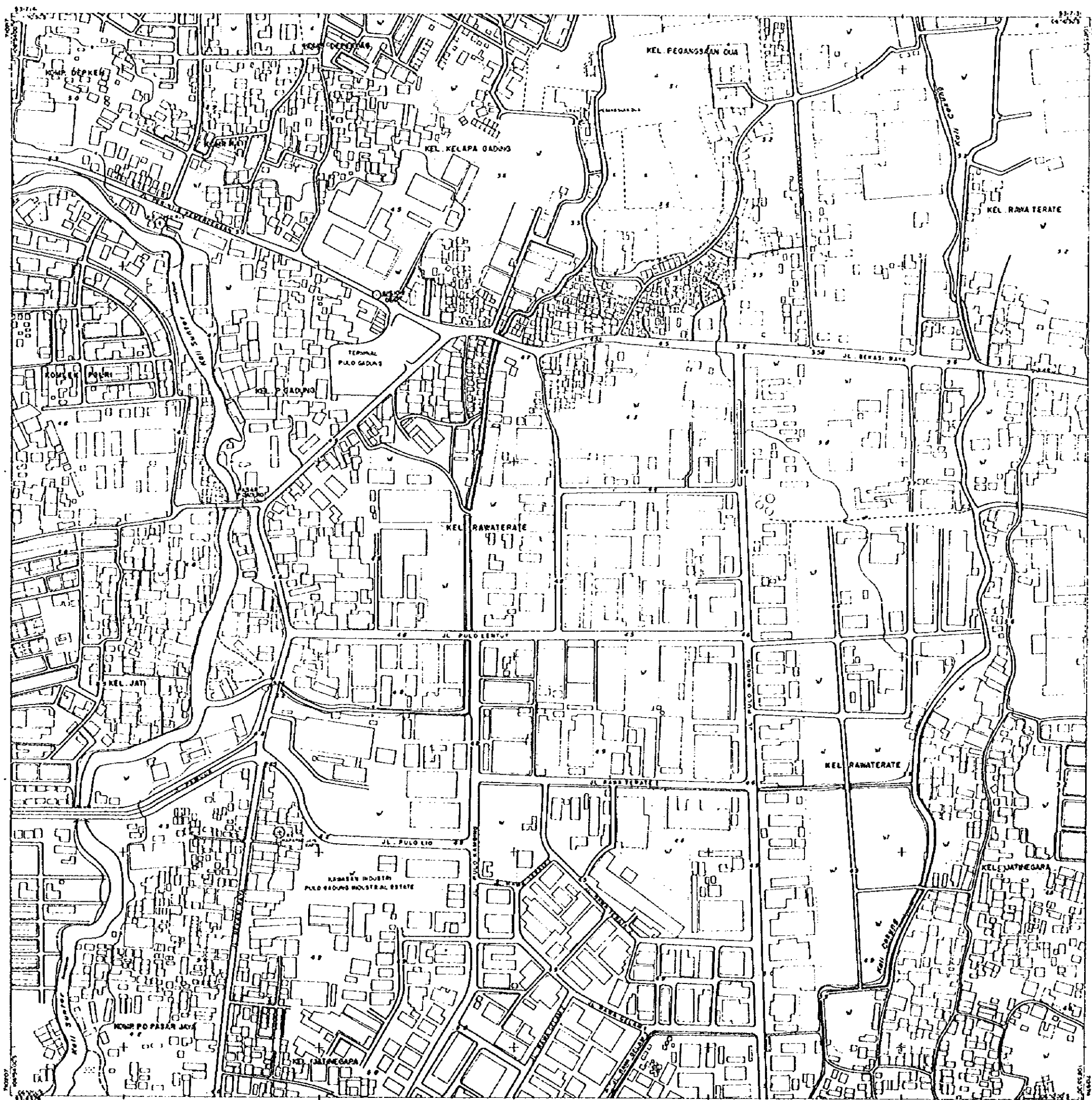
**MINISTRY OF PUBLIC WORKS**  
**DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT**  
**CIWUNG GISADANE RIVER BASIN DEVELOPMENT PROJECT**

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

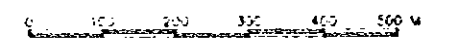
Drawing Title: **TOPOGRAPHIC MAP**

Checked by:	Approved by:	Field Survey 85/29
Signature: [Signature]	Signature: [Signature]	Field No. 85/10
Date: 11-1-94	Date: 11-1-94	Plotting 85/10
		Field Drawing 85/10

**JICA** JAPAN INTERNATIONAL COOPERATION AGENCY **PE. ARAS DELTASATYA** 1208-432



SCALE 1 : 5 000



LEGEND

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

1228-424										1228-424									
18	19	20	21	22	23	24	25	26	27	18	19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36	37	28	29	30	31	32	33	34	35	36	37
38	39	40	41	42	43	44	45	46	47	38	39	40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55	56	57	48	49	50	51	52	53	54	55	56	57
58	59	60	61	62	63	64	65	66	67	58	59	60	61	62	63	64	65	66	67
68	69	70	71	72	73	74	75	76	77	68	69	70	71	72	73	74	75	76	77
78	79	80	81	82	83	84	85	86	87	78	79	80	81	82	83	84	85	86	87
88	89	90	91	92	93	94	95	96	97	88	89	90	91	92	93	94	95	96	97
98	99	100	101	102	103	104	105	106	107	98	99	100	101	102	103	104	105	106	107
108	109	110	111	112	113	114	115	116	117	108	109	110	111	112	113	114	115	116	117
118	119	120	121	122	123	124	125	126	127	118	119	120	121	122	123	124	125	126	127
128	129	130	131	132	133	134	135	136	137	128	129	130	131	132	133	134	135	136	137

X, Y : Base UTM Zone 48  
 N : Mean sea level (TTC)

1:500 contour : 10 meter  
 1:2000 contour : 2 meter  
 Supplemental contour : 1 meter  
 Aerial photography : 1:20 000  
 May 1994

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

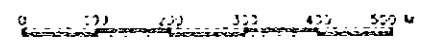
Drawing Title: **TOPOGRAPHIC MAP**

Drawn by	Checked by	Approved by	Field Survey
Signature	Signature	Signature	Signature
Date	Date	Date	Date

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
 P. ARIAS DELTASATYA  
 Sheet No. 12



SCALE 1:5000



LEGEND

- △ Existing Navigation Point
- GPS Point
- Existing Bank Work
- Spot height
- ~ River
- ▭ Concrete Building (maximum 4 floor)
- ▭ House
- ▭ Mosque
- ▭ Church
- ▭ Hospital
- ▭ School
- ▭ Government Office
- Road
- Fath
- ≡ Bridge
- ≡ Railway
- ⊠ Station
- Electric Power Line
- ▭ Cutting and Embankment
- ▭ Swamp
- ~ Wash gages
- ▭ Christian cemetery
- ▭ Chinese graves
- ▭ Paddy field
- ▭ Boundary of vegetation
- ▭ Field
- ▭ Forest
- ▭ Grass
- Water hole
- Pond, lake
- ~ Canal
- ▭ Land Slide

1228-434										1228-434									
4200	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
4100	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
4000	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
3900	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
3800	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
3700	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
3600	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
3500	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

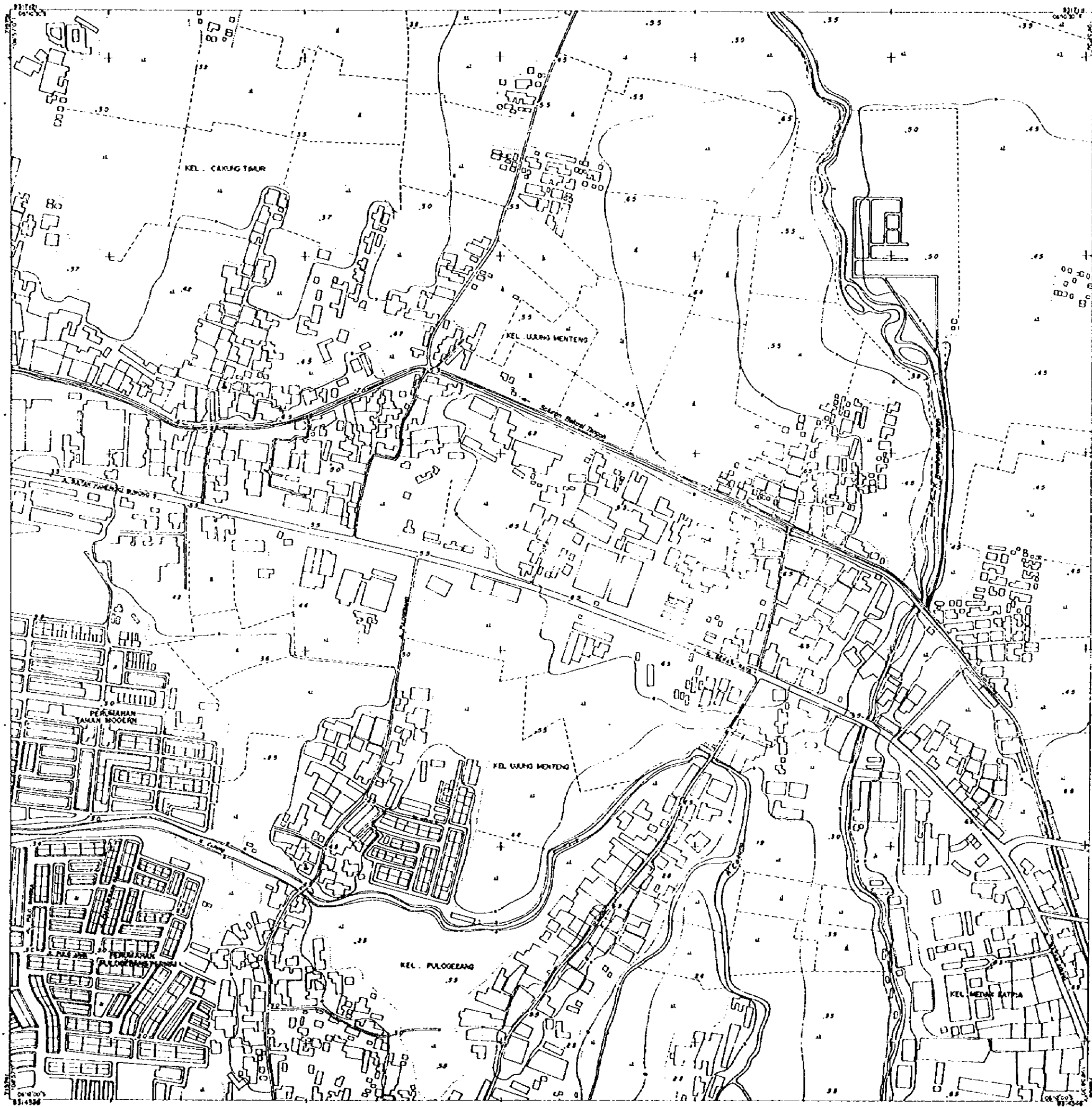
Based UTM Zone 48  
Mean sea level (ETG)

map contour : 10 meter  
 map contour : 2 meter  
 supplementary contour : 1 meter  
 aerial photography : 1:20,000 May 1994

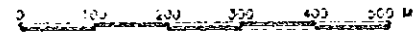
MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CUKUNG DASARE RIVER BASIN DEVELOPMENT PROJECT  
 THE STUDY ON COMPREHENSIVE RIVER WATER  
 MANAGEMENT PLAN IN JABOTABEK

Drawing Title: **TOPOGRAPHIC MAP**

Created by	Approved by	Date
Supervised by	Checked by	Date
Drawn by	Reviewed by	Date
Scale	Scale	Date



SCALE 1:5000



LEGEND

- △ Control Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot Height
- ▭ Concrete Building (more than 4 floor)
- ▭ House
- ▭ Mosque
- ▭ Church
- ⊙ Hospital
- ▭ School
- ▭ Government Office
- ▭ Pond
- ▭ Well
- Bridge
- Railway
- ⊙ Station
- Electric Power Line
- ▭ Cutting and Embankment
- ▭ Swamp
- ▭ Wetland grass
- ▭ Christian cemetery
- ▭ Chinese graves
- ▭ Paddy field
- ▭ Boundary of vegetation
- ▭ Field
- ▭ Forest
- ▭ Grass
- Water hole
- Pond, lake
- ▭ Sand
- ▭ Landslide

1208-424		1208-444	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

X, Y : Basal UTM Zone 48  
 N : Mean sea level (TTG)  
 Index Contour : 10 meter  
 Main Contour : 2 meter  
 Supplementary Contour : 1 meter  
 Aerial photograph : 1:20,000  
 May 1994

MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 CIKURUNG USADANE RIVER BASIN DEVELOPMENT PROJECT

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTASEK

TOPOGRAPHIC MAP

Drawn by	Checked by	Approved by	Field Survey No. 06
Signature	Signature	Signature	Scale 1:5000
Date	Date	Date	Plotting '93 10
			Field Drawing '94 01
JICA JAPAN INTERNATIONAL COOPERATION AGENCY			PT. ARAS DELFASATYA (1208-442)



SCALE 1 : 5000



LEGEND

- Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- Spot Height
- River
- Concrete Building (more than 100sqm)
- House
- Mosque
- Church
- Madrasa
- School
- Government Office
- Food
- Market
- Bridge
- Roadway
- Station
- Electric Power Line
- Cutting and Embankment
- Swamp
- Mastern grass
- Christian cemetery
- Onionn grass
- Paddy field
- Border of Vegetation
- Field
- Forest
- Grass
- Water hole
- Pond, lake
- Sand
- Land Slide

	1209-424					1209-444				
1209-424	10	11	12	13	14	15	16	17	18	19
1209-425	20	21	22	23	24	25	26	27	28	29
1209-426	30	31	32	33	34	35	36	37	38	39
1209-427	40	41	42	43	44	45	46	47	48	49
1209-428	50	51	52	53	54	55	56	57	58	59
1209-429	60	61	62	63	64	65	66	67	68	69
1209-430	70	71	72	73	74	75	76	77	78	79
1209-431	80	81	82	83	84	85	86	87	88	89
1209-432	90	91	92	93	94	95	96	97	98	99
1209-433	100	101	102	103	104	105	106	107	108	109

X, Y : Basal UTM Zone 48  
 N : Mean sea level (TT0)

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

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

THE STUDY ON COMPREHENSIVE RIVER WATER MANAGEMENT PLAN IN JABOTABEK

TOPOGRAPHIC MAP

Date: 2-2001		Approved by: [Signature]		Page: 35 of 35
Scale: 1:5000	Map No: [Blank]	Sheet: [Blank]	Project: [Blank]	Date: [Blank]
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		PT. ATLAS DELTASATVA		