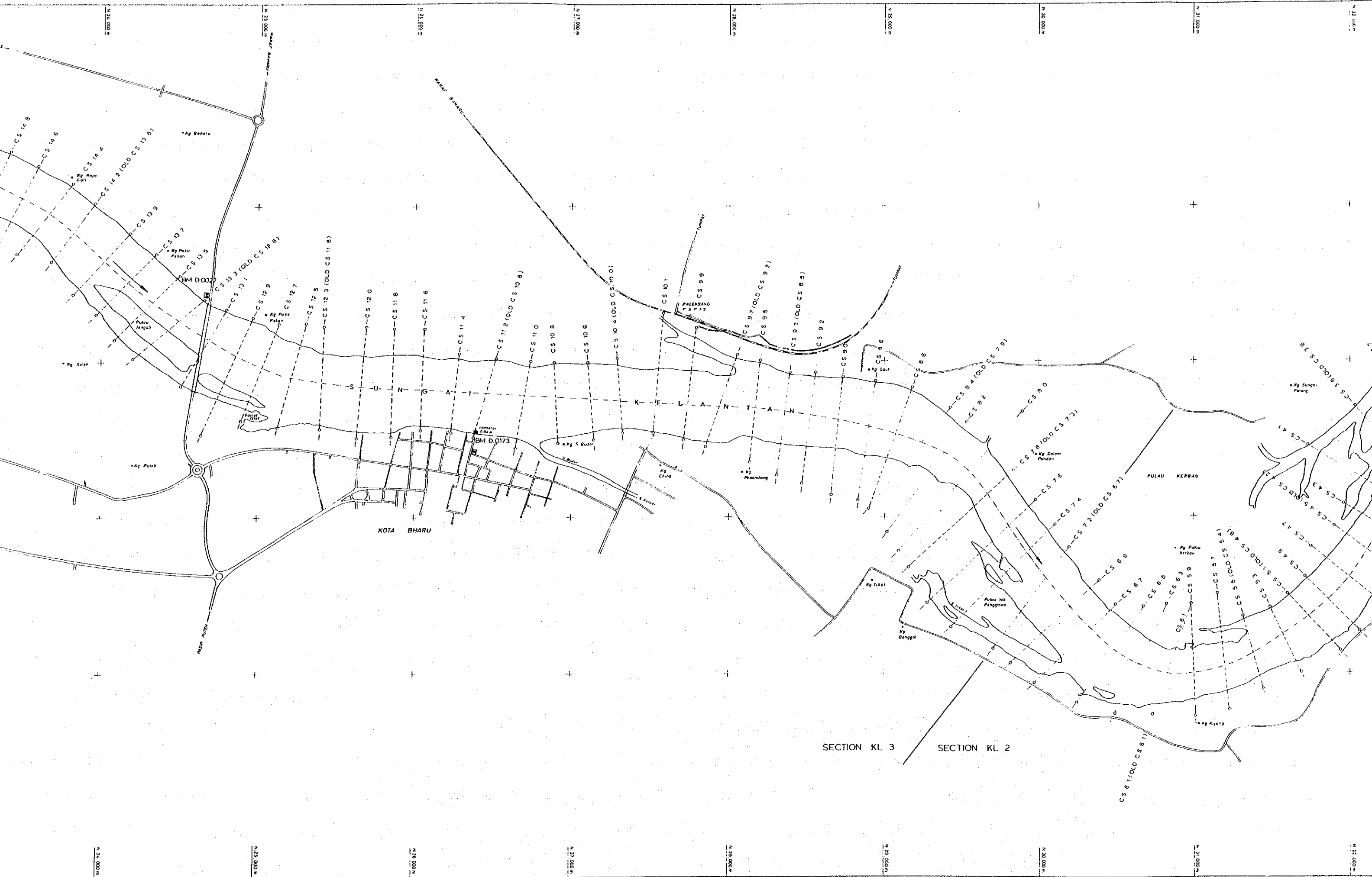


DETAILS & LOCALITY PLAN OF CROSS-SECTIONS

(4 SHEETS)





KOTA BHARU

SUNGAI KELANTAN

PULAU KERBAU

PULAU SUNGAI PEHANG

SECTION KL 3

SECTION KL 2

Kg Baharu

Kg Sirih

Kg Putih

BM D.0027

BM D.0173

PALEMBANG P.S.P.F.S.

Kg S. Buda

Kg Ching

Kg Penambang

Kg Laut

Kg Tikot

Kg Banggai

Kg Pulau Kerbau

Kg Kijang

CS 14 8

CS 14 6

CS 14 4

CS 14 2 (OLD CS 13 B)

CS 13 9

CS 13 7

CS 13 5

CS 13 3 (OLD CS 12 B)

CS 13 1

CS 12 9

CS 12 7

CS 12 5

CS 12 3 (OLD CS 11 B)

CS 12 0

CS 11 8

CS 11 6

CS 11 4

CS 11 2 (OLD CS 10 B)

CS 11 0

CS 10 8

CS 10 6

CS 10 4 (OLD CS 10 0)

CS 10 1

CS 9 9

CS 9 7 (OLD CS 9 2)

CS 9 5

CS 9 3 (OLD CS 8 5)

CS 9 2

CS 9 0

CS 8 8

CS 8 6

CS 8 4 (OLD CS 7 9)

CS 8 2

CS 8 0

CS 7 8 (OLD CS 7 3)

CS 7 6

CS 7 4

CS 7 2 (OLD CS 6 7)

CS 6 9

CS 6 7

CS 6 5

CS 6 3

CS 6 1 (OLD CS 6 1)

CS 5 9

CS 5 7

CS 5 5 (OLD CS 4 8)

CS 5 3 (OLD CS 4 8)

CS 5 1 (OLD CS 4 8)

CS 4 7

CS 4 5 (OLD CS 3 8)

CS 4 3 (OLD CS 3 8)

CS 4 1

CS 3 9 (OLD CS 3 8)

N 24,000 m

N 25,000 m

N 26,000 m

N 27,000 m

N 28,000 m

N 29,000 m

N 30,000 m

N 31,000 m

N 32,000 m

N 24,000 m

N 25,000 m

N 26,000 m

N 27,000 m

N 28,000 m

N 29,000 m

N 30,000 m

N 31,000 m

N 32,000 m

W 000

W 001

W 002

W 003

W 004

W 005

W 006

W 007

W 008

W 000

W 001

W 002

W 003

W 004

W 005

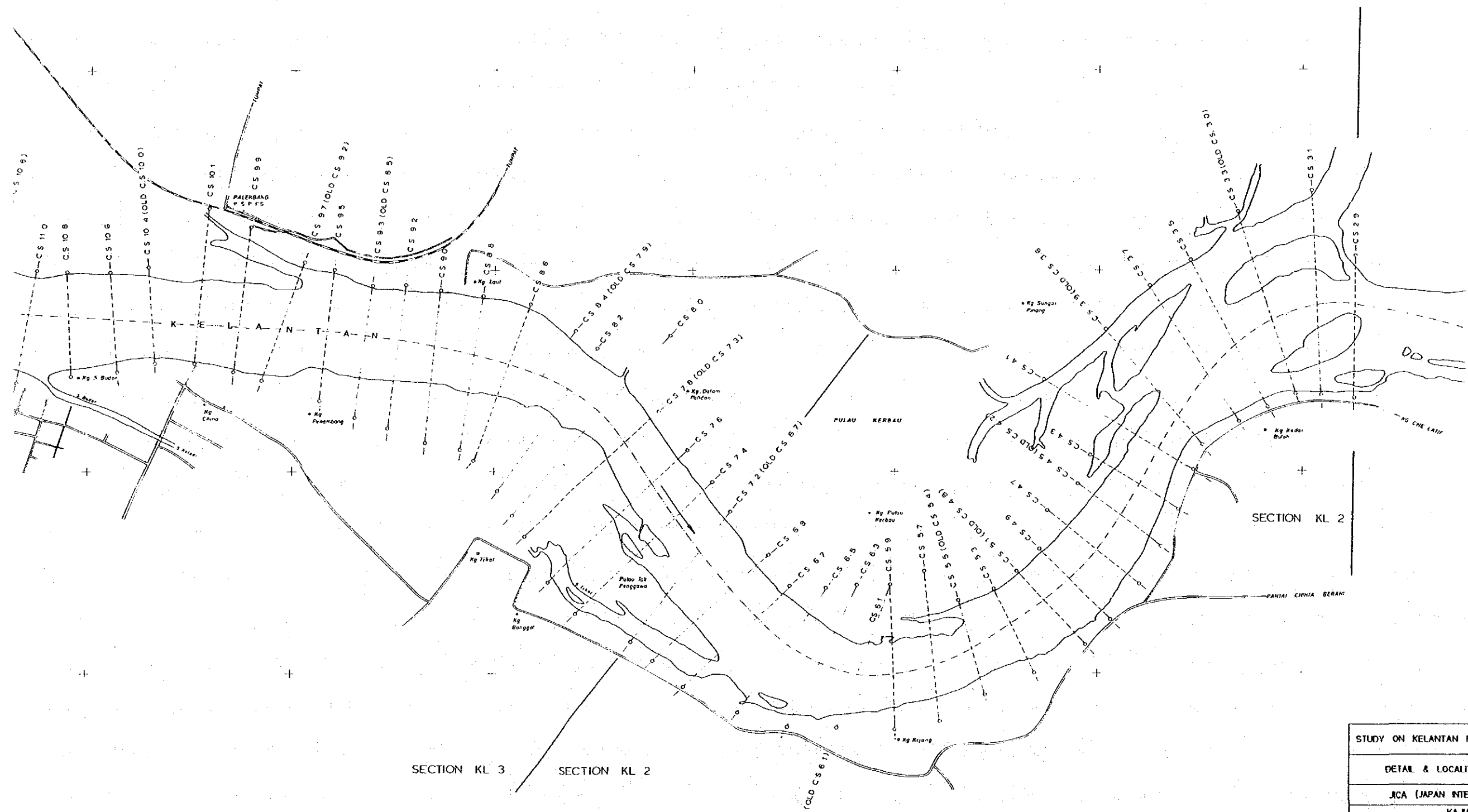
W 006

W 007

W 008



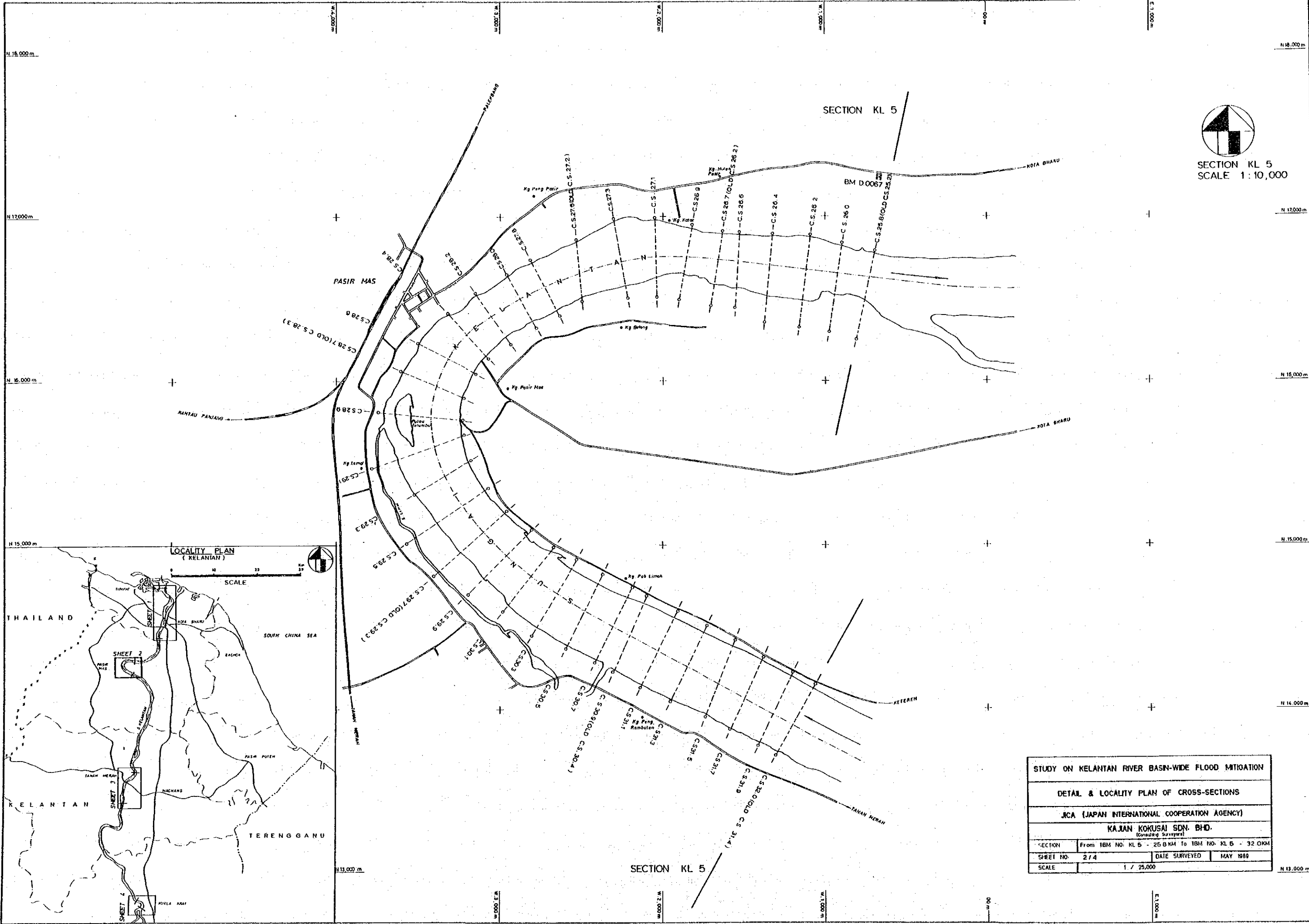
SECTION KL 3 AND KL 2
SCALE 1 : 10,000

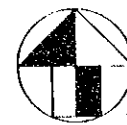


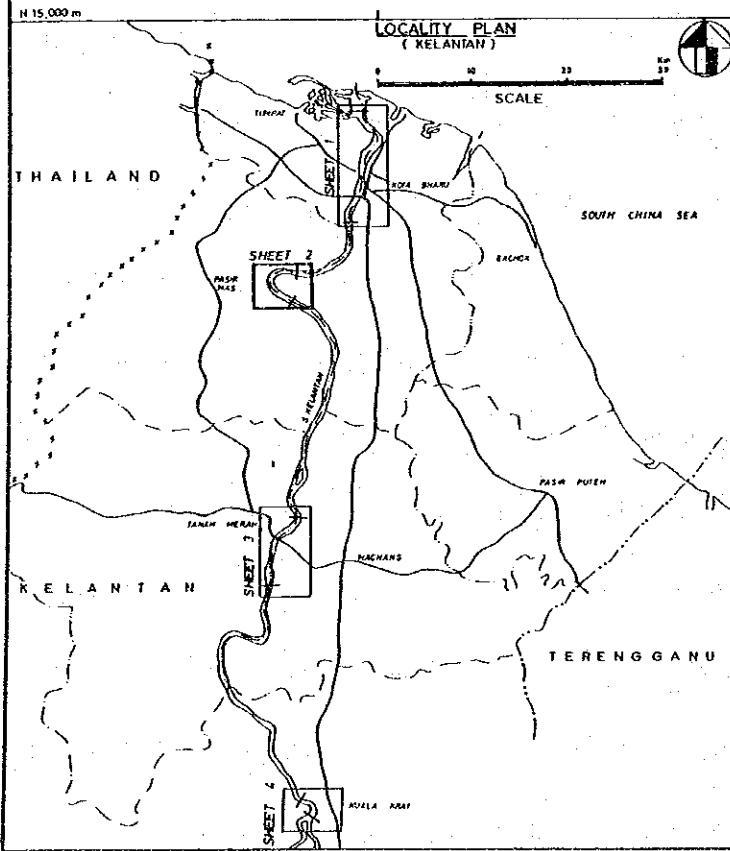
SECTION KL 3 SECTION KL 2

SECTION KL 2

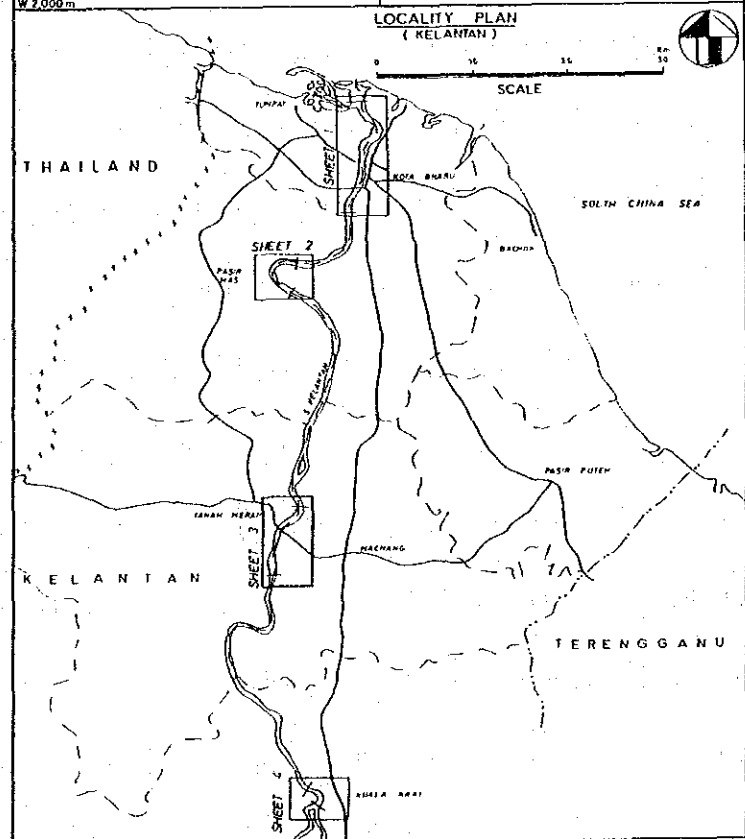
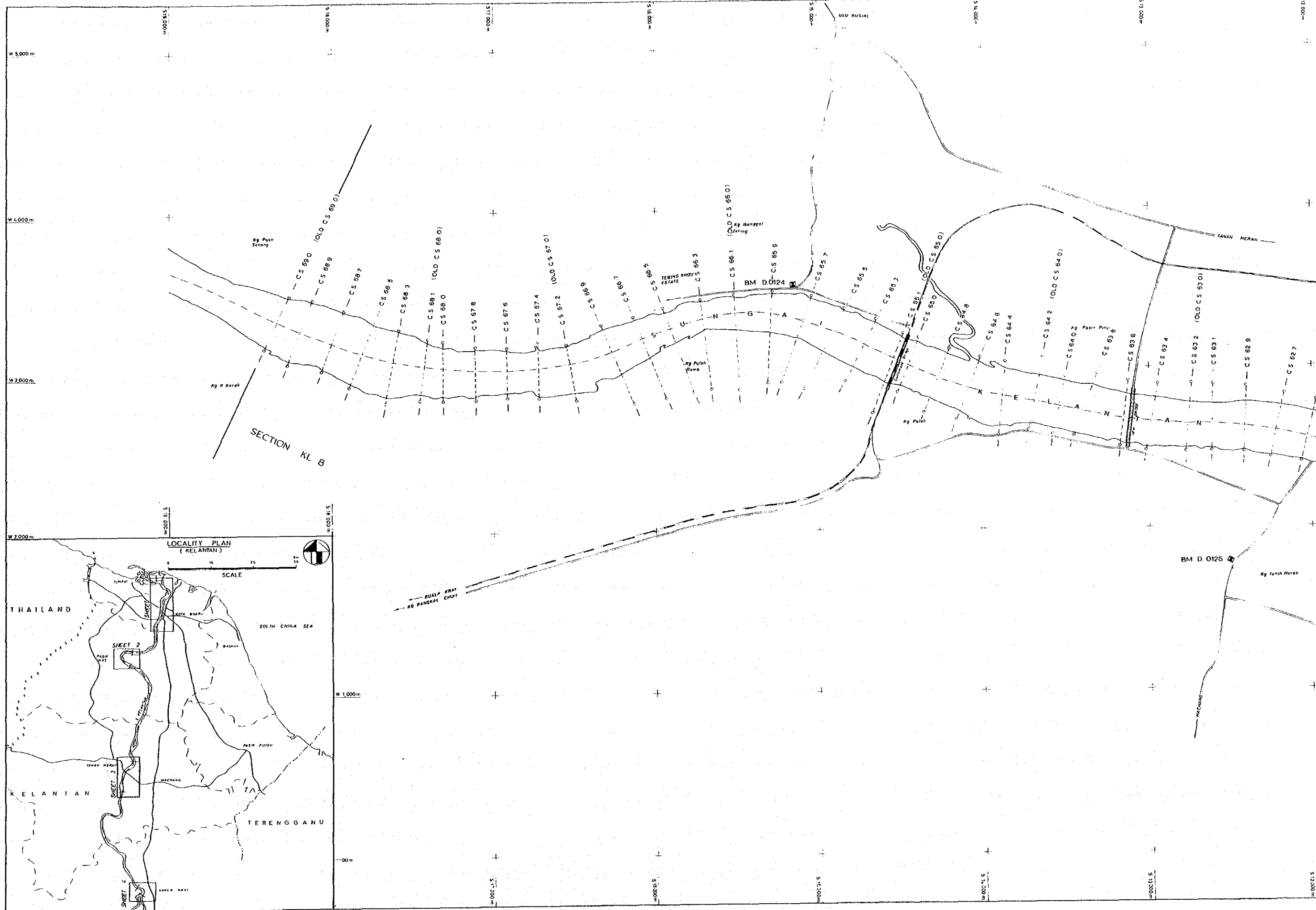
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
DETAIL & LOCALITY PLAN OF CROSS-SECTIONS			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From TBM NO KL 2 - 2.9 KM To TBM NO KL 3 - 16.6 KM		
SHEET NO	1 / 4	DATE SURVEYED	MAY 1989
SCALE	1 / 25,000		

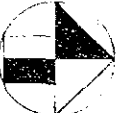



 SECTION KL 5
 SCALE 1 : 10,000



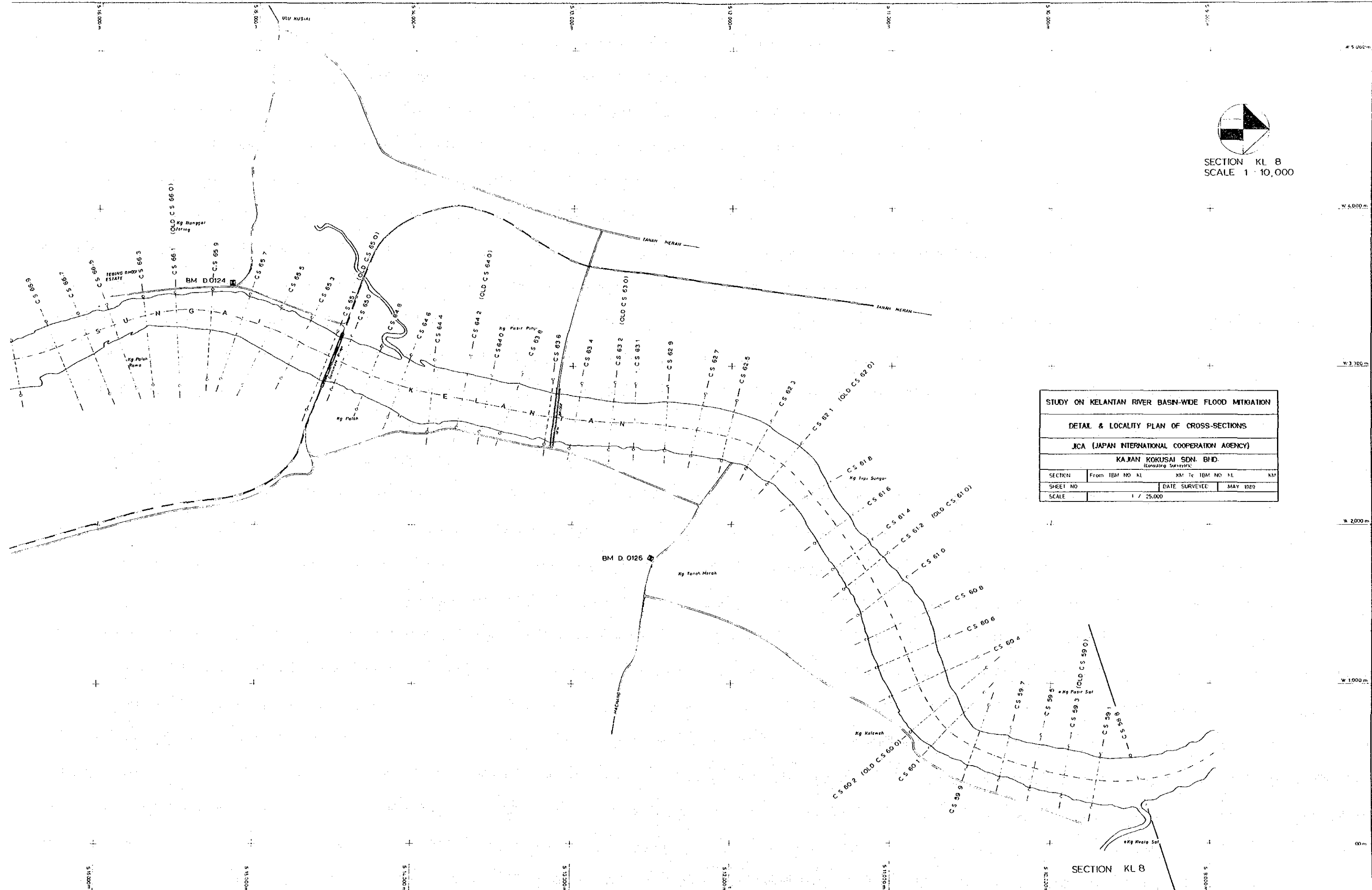
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
DETAIL & LOCALITY PLAN OF CROSS-SECTIONS			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Engineers)			
SECTION	From IBM NO. KL 5 - 25.8 KM To IBM NO. KL 5 - 32.0 KM		
SHEET NO.	2 / 4	DATE SURVEYED	MAY 1989
SCALE	1 / 25,000		



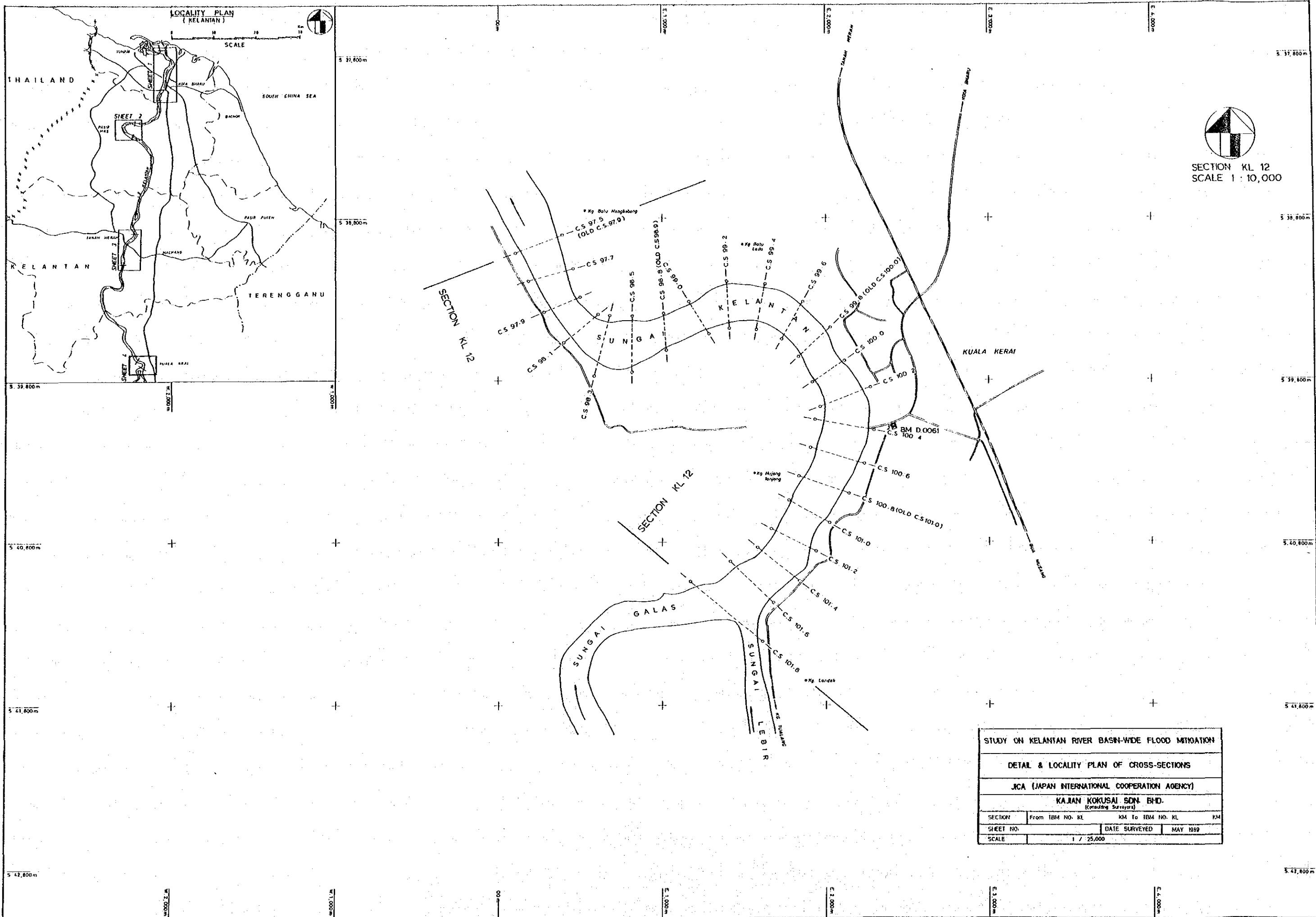


SECTION KL B
SCALE 1 : 10,000

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
DETAIL & LOCALITY PLAN OF CROSS-SECTIONS			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consisting Services)			
SECTION	From IBM NO KL	XM To IBM NO KL	KM
SHEET NO		DATE SURVEYED	MAY 1989
SCALE	1 / 25,000		



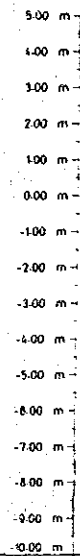
SECTION KL B



STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
DETAIL & LOCALITY PLAN OF CROSS-SECTIONS			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From IBM NO. KL	KM To IBM NO. KL	KM
SHEET NO.	DATE SURVEYED	MAY 1989	
SCALE	1 / 25,000		

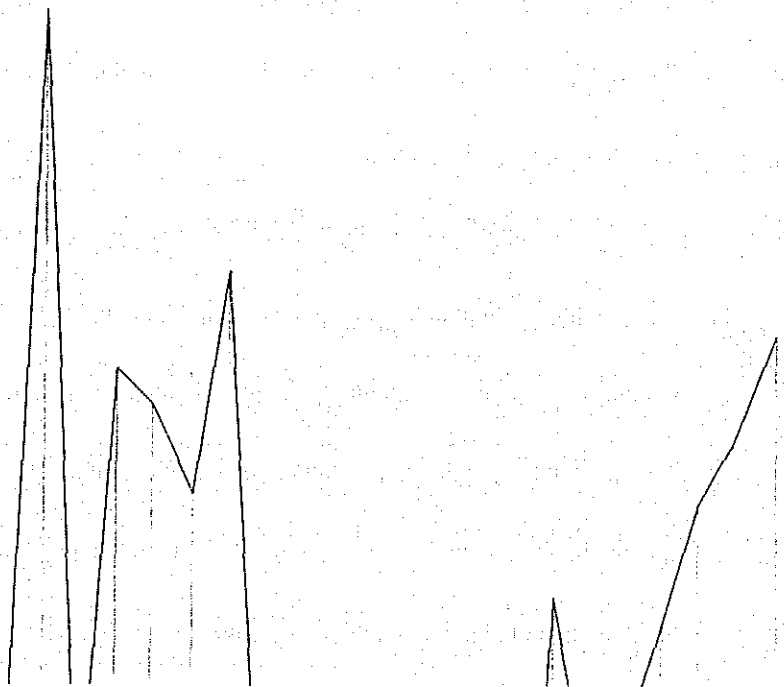
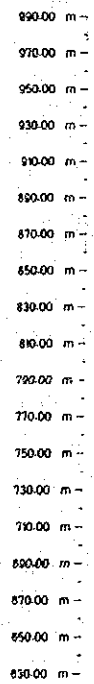
LONGITUDINAL PROFILE OF SUNGAI KELANTAN

(7 SHEETS)

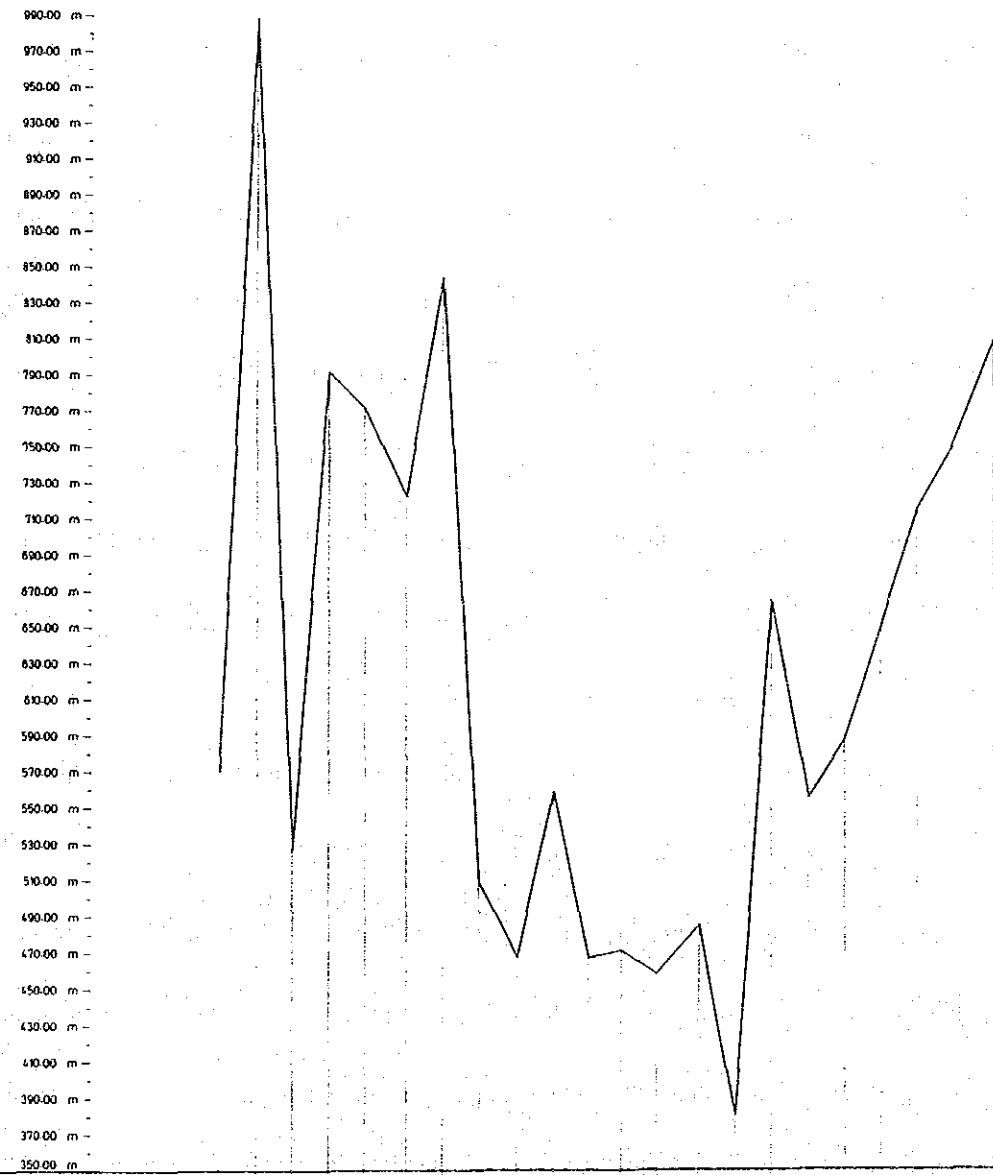


DATUM

Left Bank	---	2.30	2.81	2.38	1.86	2.75	2.79	2.50	2.44	2.90	3.21	2.82	2.78	2.80	2.88	3.19	2.88	4.58	2.51	2.81	2.82	4.44	2.84	4.14
Right Bank	-2.30	-1.99	-2.54	-2.86	-2.75	-2.92	-2.78	-2.95	-3.15	-3.58	-3.54	-3.02	-3.08	-4.15	-3.10	-2.80	-3.50	-3.39	-3.71	-2.82	-4.44	-3.81	-2.83
Average River Bed	---	-4.70	-3.69	-3.09	-4.08	-3.73	-4.81	-4.18	-4.78	-5.41	-5.81	-5.57	-4.42	-4.35	-5.70	-4.18	-4.82	-5.03	-4.81	-5.03	-4.82	-5.92	-5.31	-4.88
Lowest River Bed	---	-4.70	-3.69	-3.09	-4.08	-3.73	-4.81	-4.18	-4.78	-5.41	-5.81	-5.57	-4.42	-4.35	-5.70	-4.18	-4.82	-5.03	-4.81	-5.03	-4.82	-5.92	-5.31	-4.88
Distance (m)		7880	3080	3260	3180	3680	3930	4110	4210	4510	4790	4910	5000	5200	5630	5730	5830	6130	6330	6330	6330	6730	6930	7170
Distance Between Cross Section (m)		200	200	200	200	230	200	200	200	200	200	200	200	240	200	200	200	200	200	200	200	200	240	
River Width (m)		570	948	827	781	771	722	844	803	887	859	887	871	858	805	310	865	855	887	860	715	719	808	
Cross Section Reference		2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5	6.7	6.9	7.1	7.2

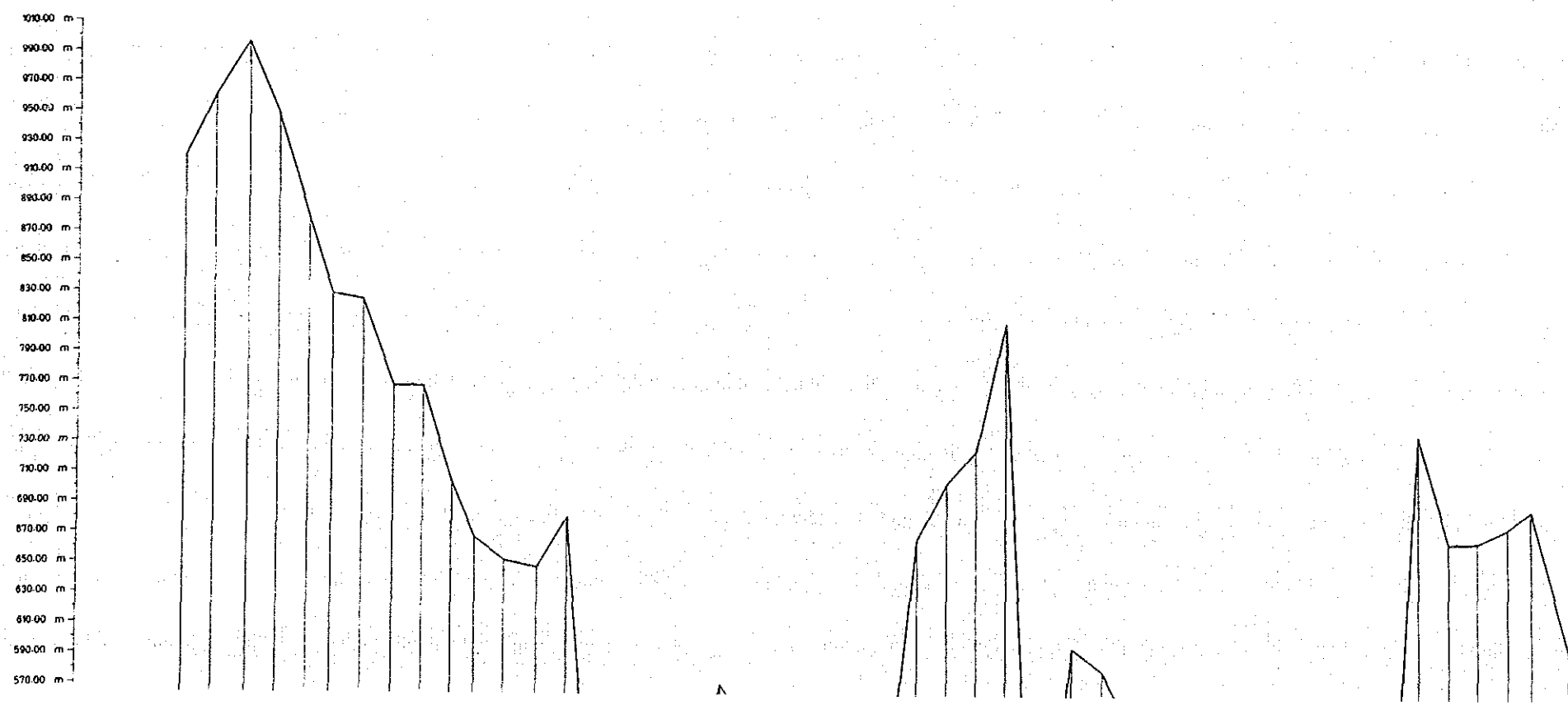
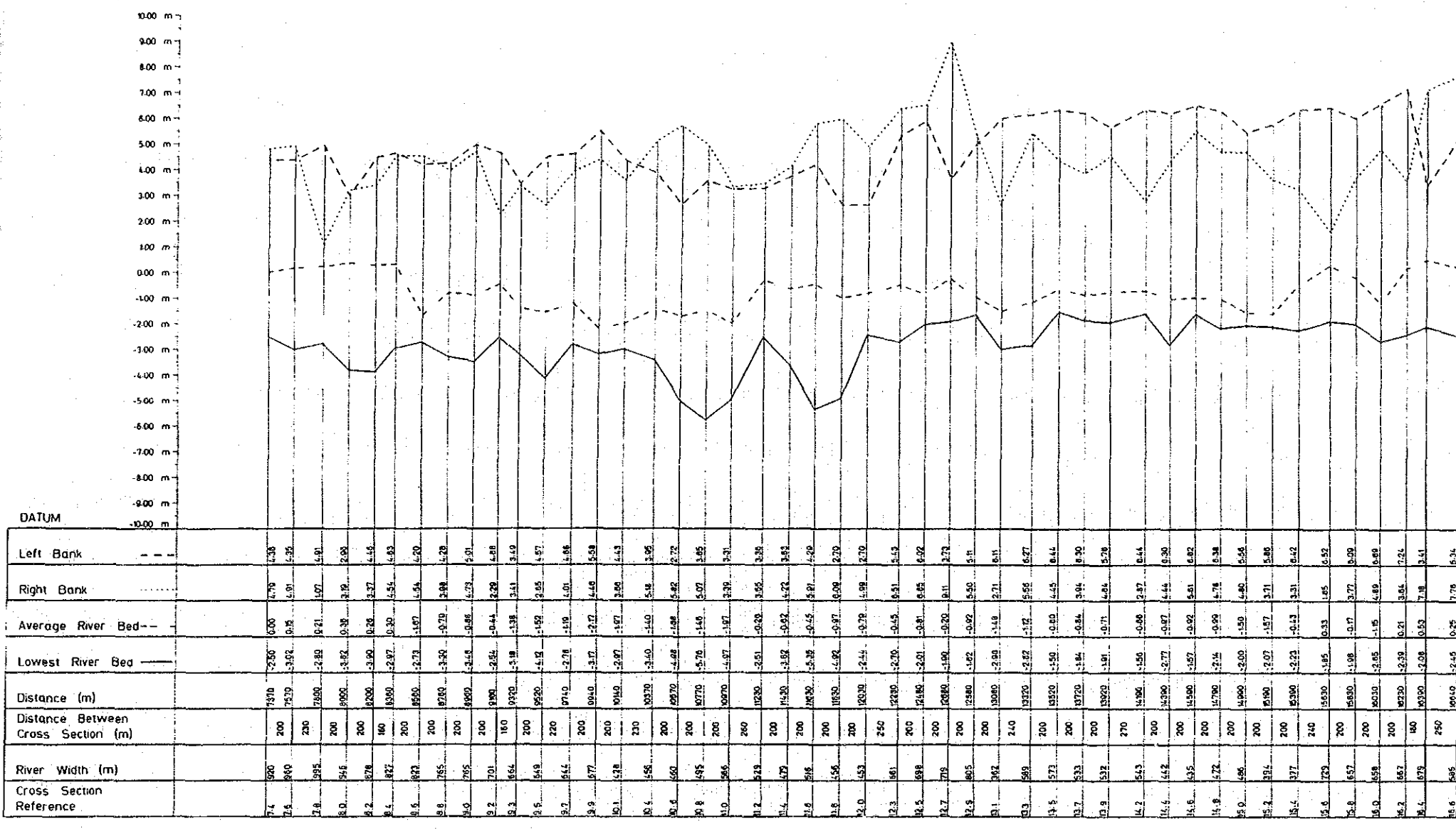


DATUM		0.00 m	1.00 m	2.00 m	3.00 m
Left Bank		2.30	2.81	2.76	2.54
Right Bank		2.30	2.81	2.76	2.54
Average River Bed		2.30	2.81	2.76	2.54
Lowest River Bed		2.30	2.81	2.76	2.54
Distance (m)		0	200	400	600
Distance Between Cross Section (m)		200	200	200	200
River Width (m)		2.9	3.1	3.2	3.3
Cross Section Reference		2.9	3.1	3.2	3.3

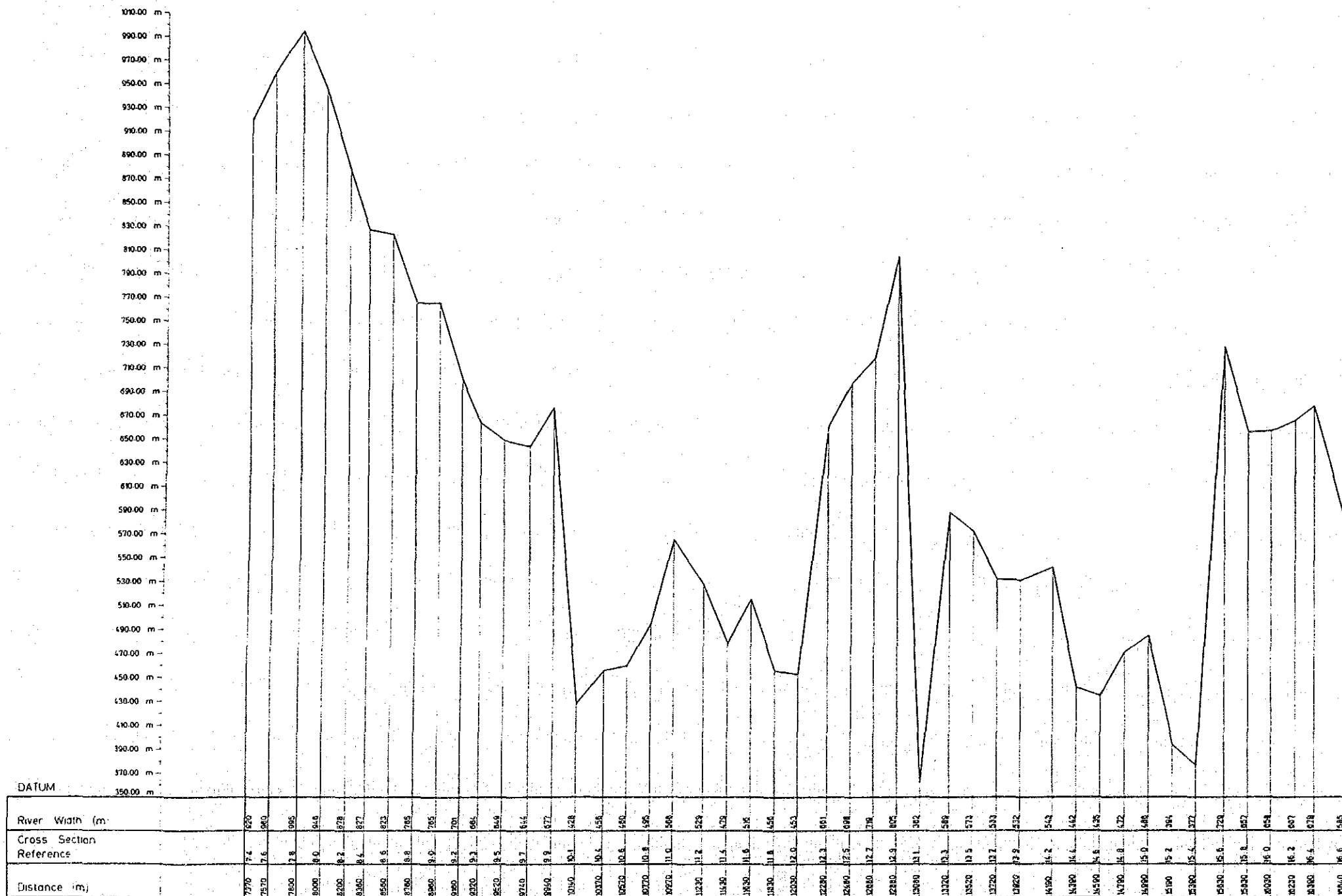


Distance (m)	2880	3080	3280	3480	3680	3880	4080	4280	4480	4680	4880	5080	5280	5480	5680	5880	6080	6280	6480	6680	6880	7080	7280	
River Width (m)	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3
Cross Section Reference	2.9	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3

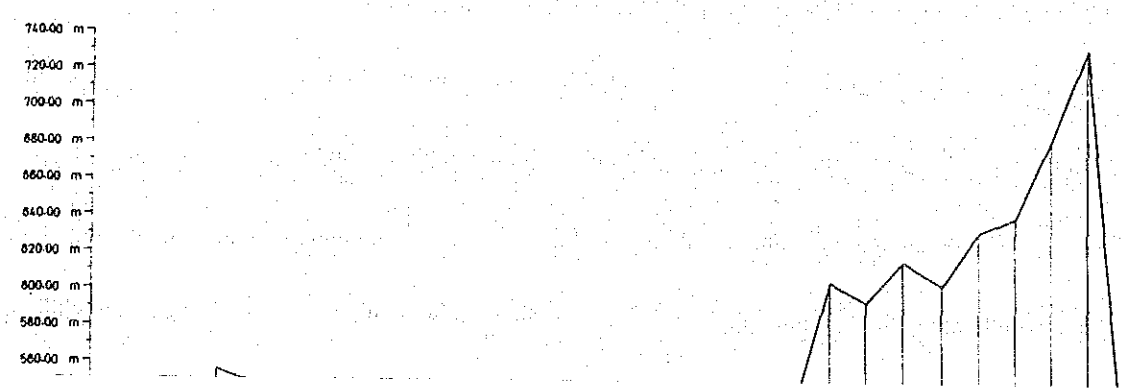
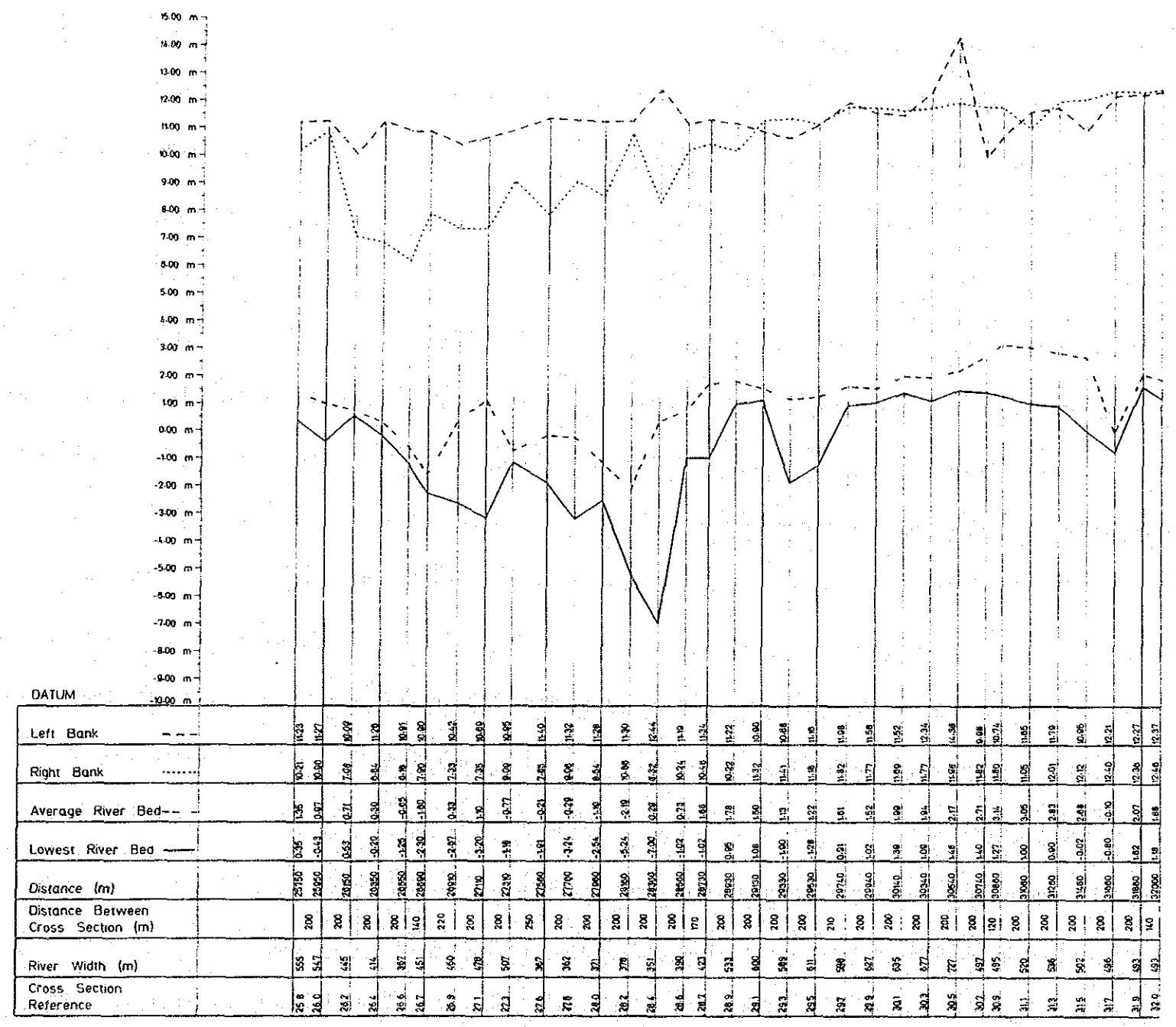
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
LONGITUDINAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION KL 2	From TBM NO.	2.9	KM To TBM NO. 7.2
SHEET NO.	P 1/7	DATE SURVEYED	MAY 1989
SCALE	Horizontal: 1 / 20,000 Vertical: 1 / 100, 1 / 2000		

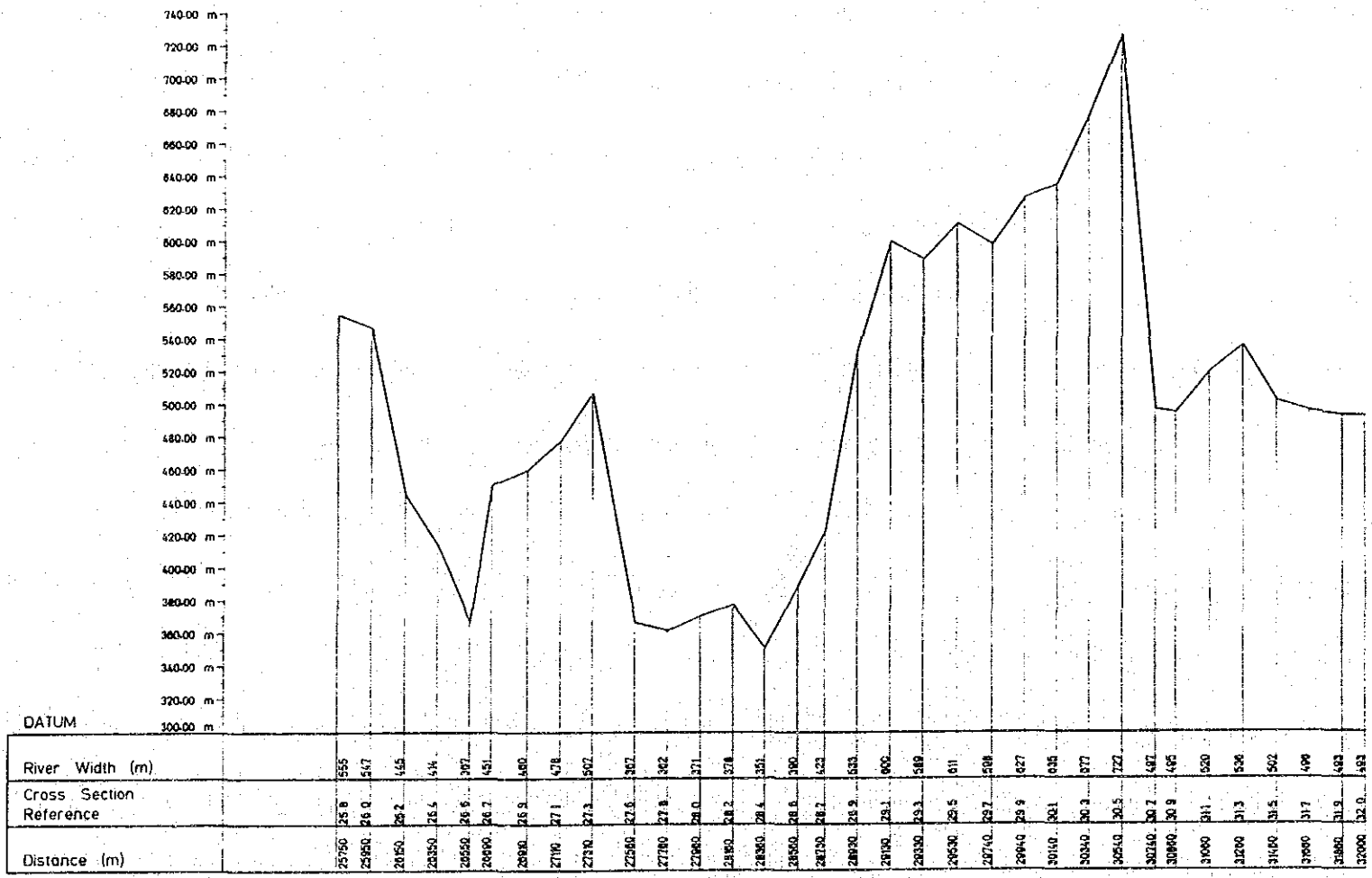
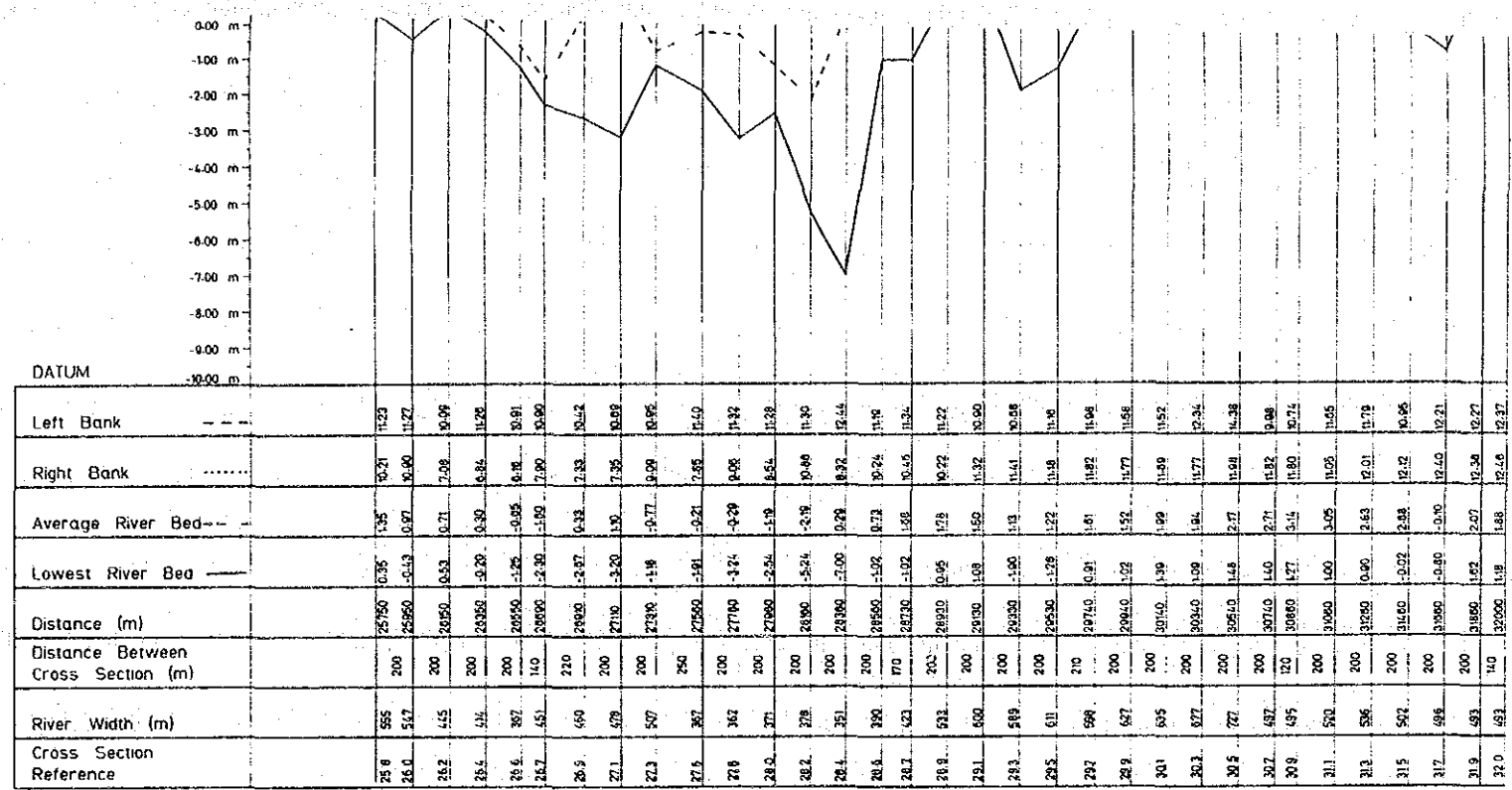


	0.00 m	1.00 m	2.00 m	3.00 m	4.00 m	5.00 m	6.00 m	7.00 m	8.00 m	9.00 m	10.00 m	DATUM
Left Bank												
Right Bank												
Average River Bed												
Lowest River Bed												
Distance (m)	7170	7270	7370	7470	7570	7670	7770	7870	7970	8070	8170	8270
Distance Between Cross Section (m)	200	200	200	200	200	200	200	200	200	200	200	200
River Width (m)	7.4	8.0	8.4	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6	12.0
Cross Section Reference	7.4	8.0	8.4	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6	12.0

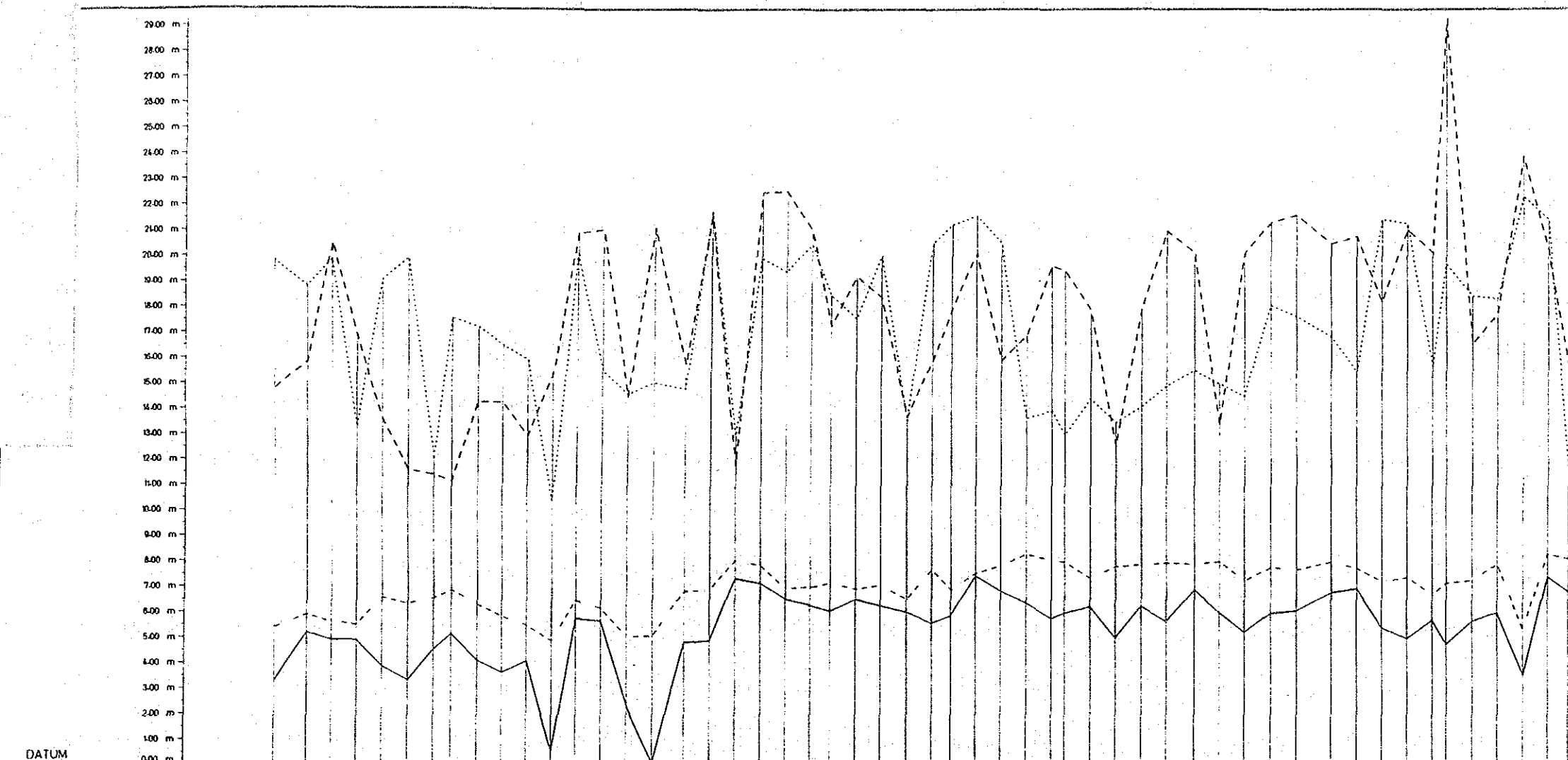


STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
LONGITUDINAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION KL 3	From TBM NO. 7-4	KM To TBM NO. 16-6	KM
SHEET NO. P 2/7	DATE SURVEYED		MAY 1989
SCALE	Horizontal: 1 / 20,000		Vertical: 1 / 100, 1 / 2000

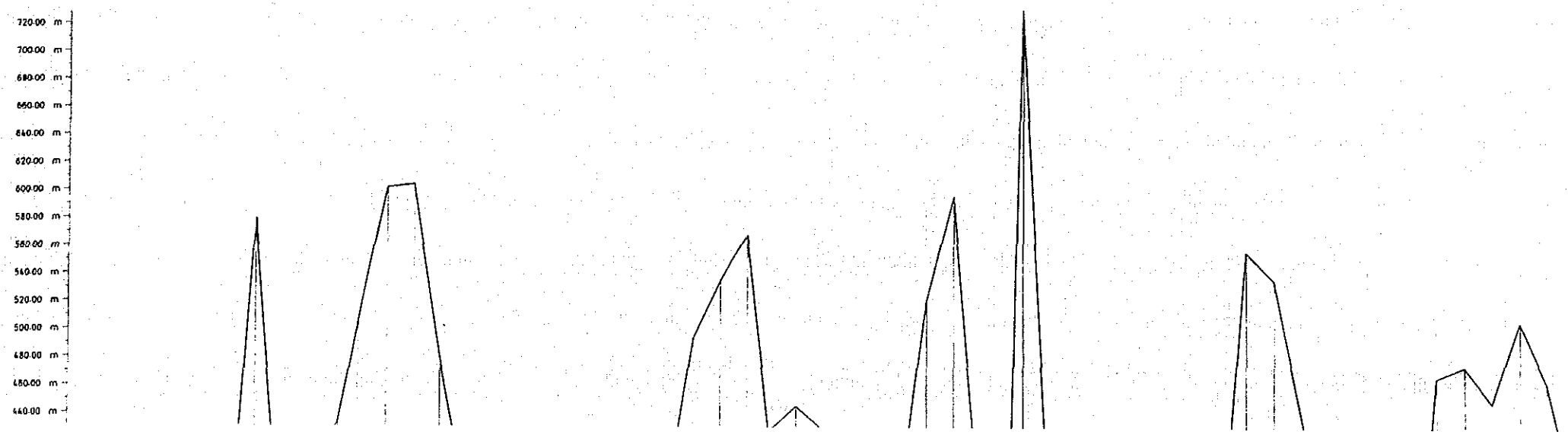


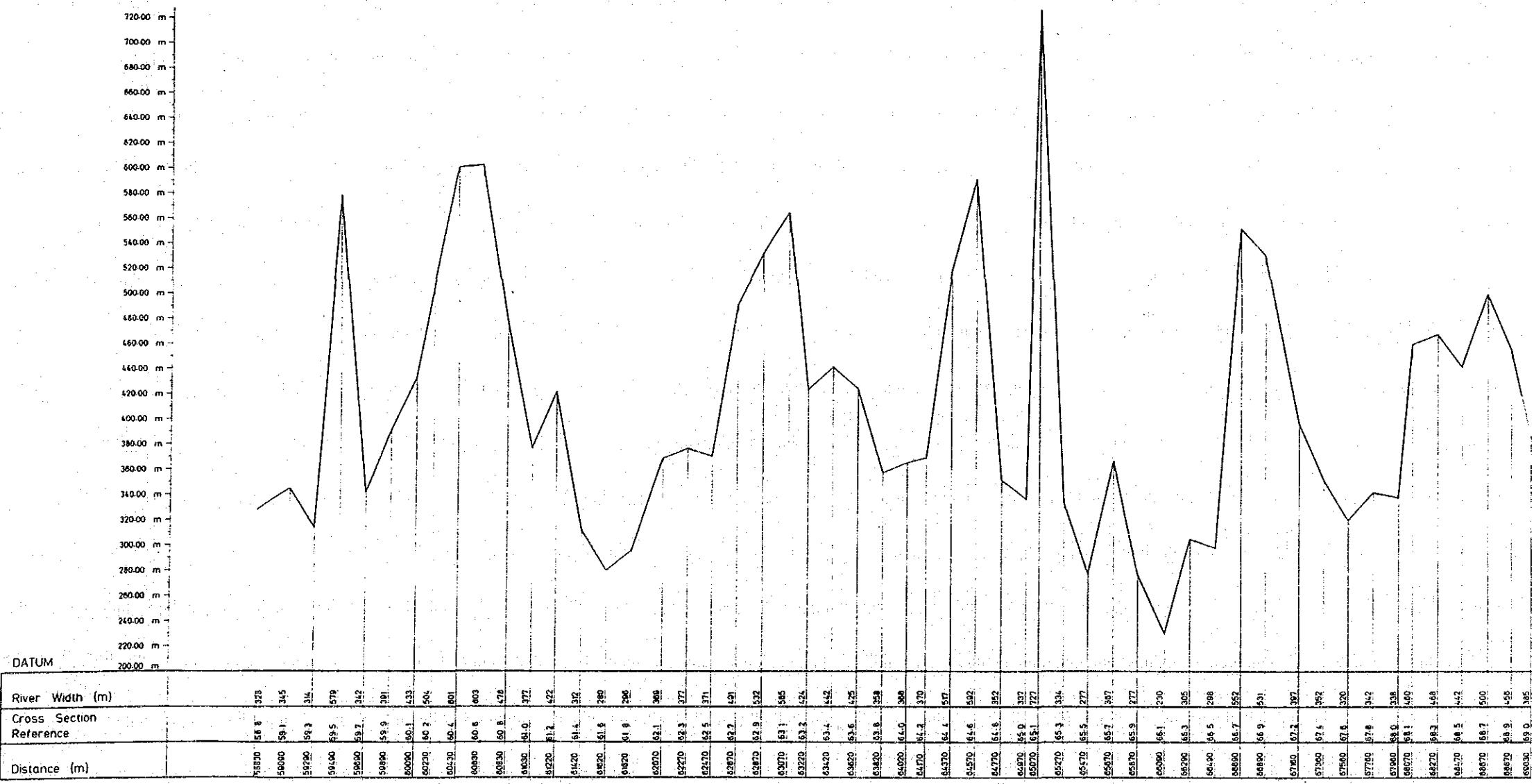
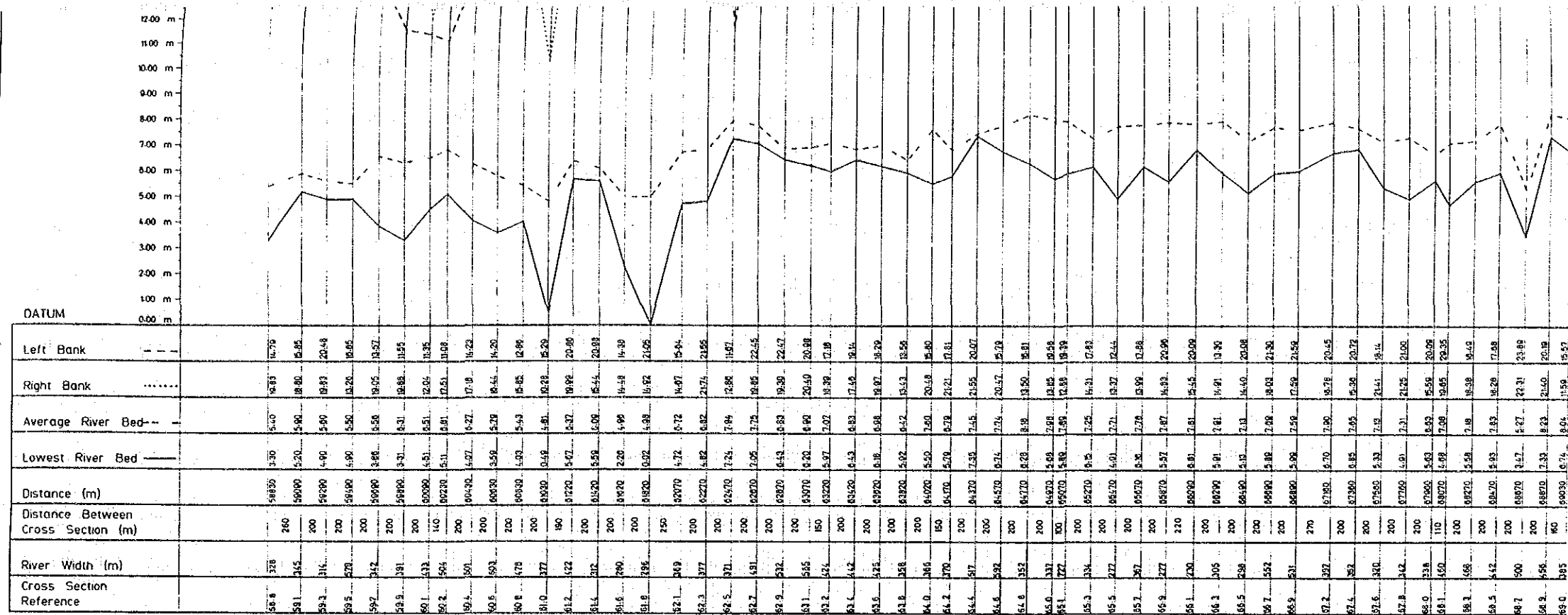


STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
LONGITUDINAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION KLS	From TBM NO. 258	KM To TBM NO. 32.0	KM
SHEET NO. P 3/7	DATE SURVEYED	MAY 1989	
SCALE	Horizontal : 1 / 20,000	Vertical : 1 / 100	1 / 2000

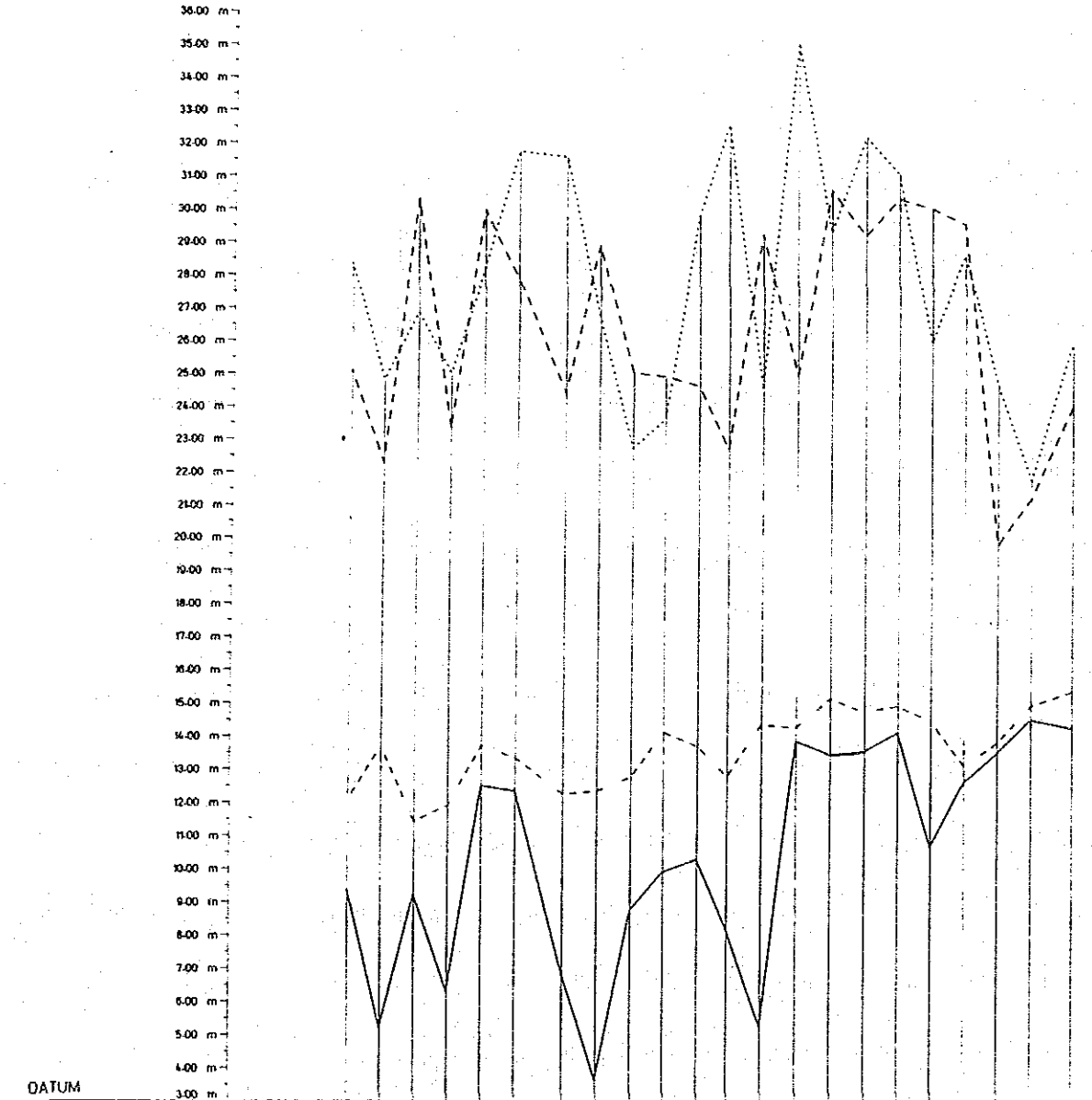


DATUM	
Left Bank	—
Right Bank	- - - -
Average River Bed	- · - ·
Lowest River Bed	—
Distance (m)	
Distance Between Cross Section (m)	
River Width (m)	
Cross Section Reference	



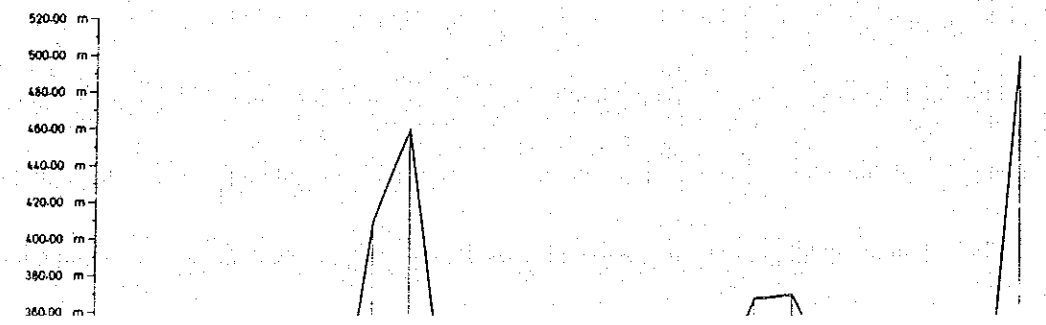


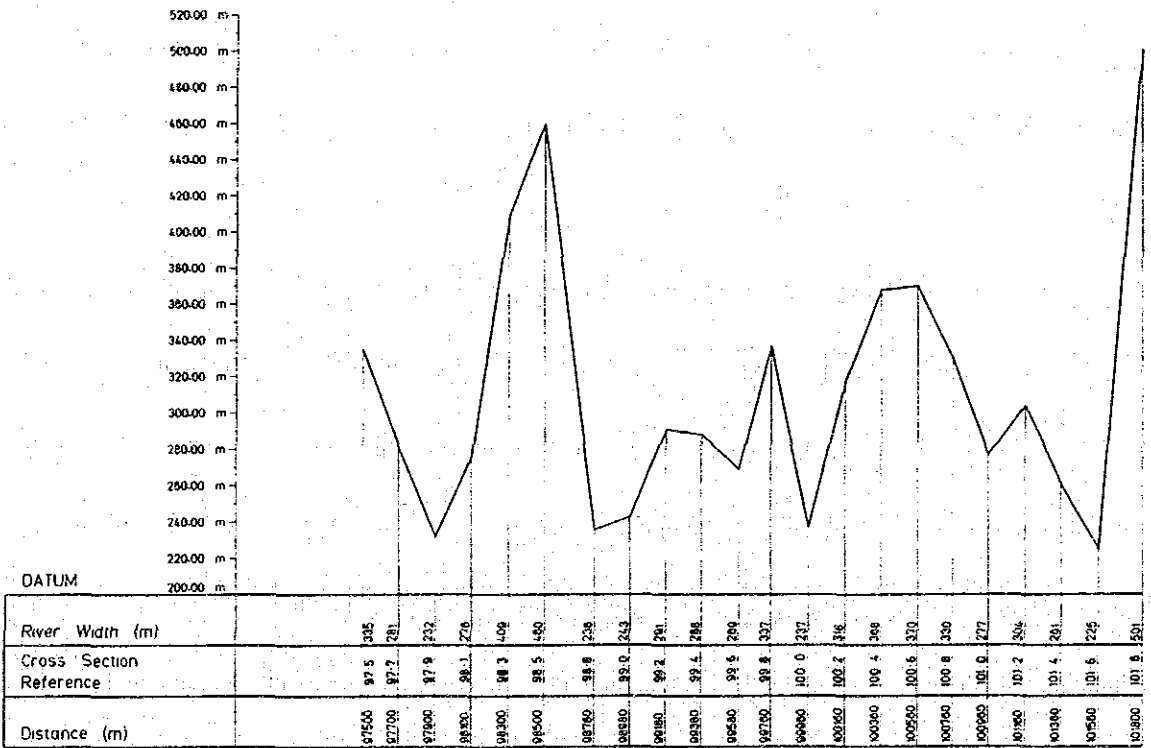
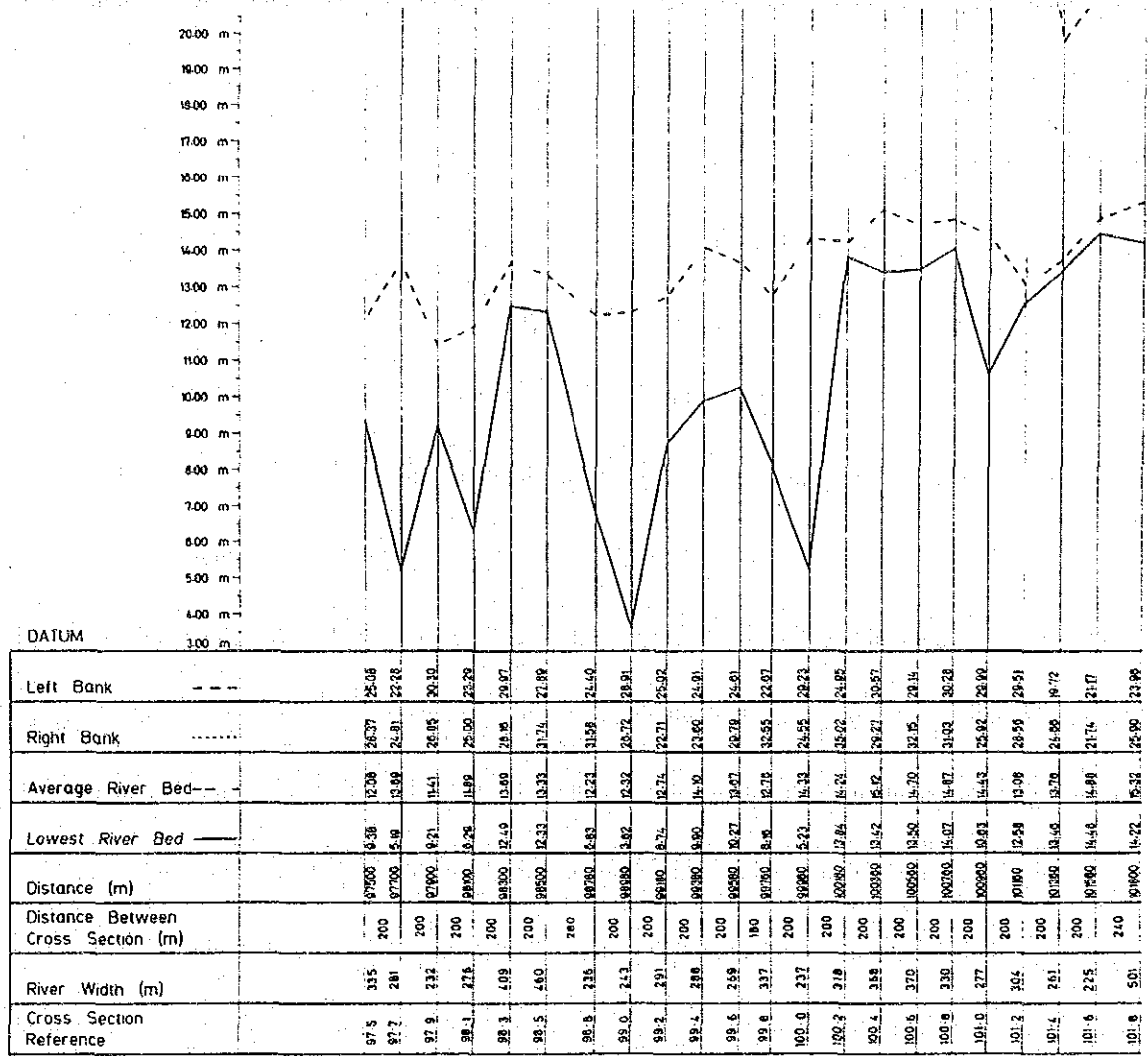
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
LONGITUDINAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION KL 8	From IBM NO.	58.8 KM To IBM NO.	69.0 KM
SHEET NO. P 4/7	DATE SURVEYED	MAY 1989	
SCALE	Horizontal	1 / 20,000	Vertical 1 / 100, 1 / 2000



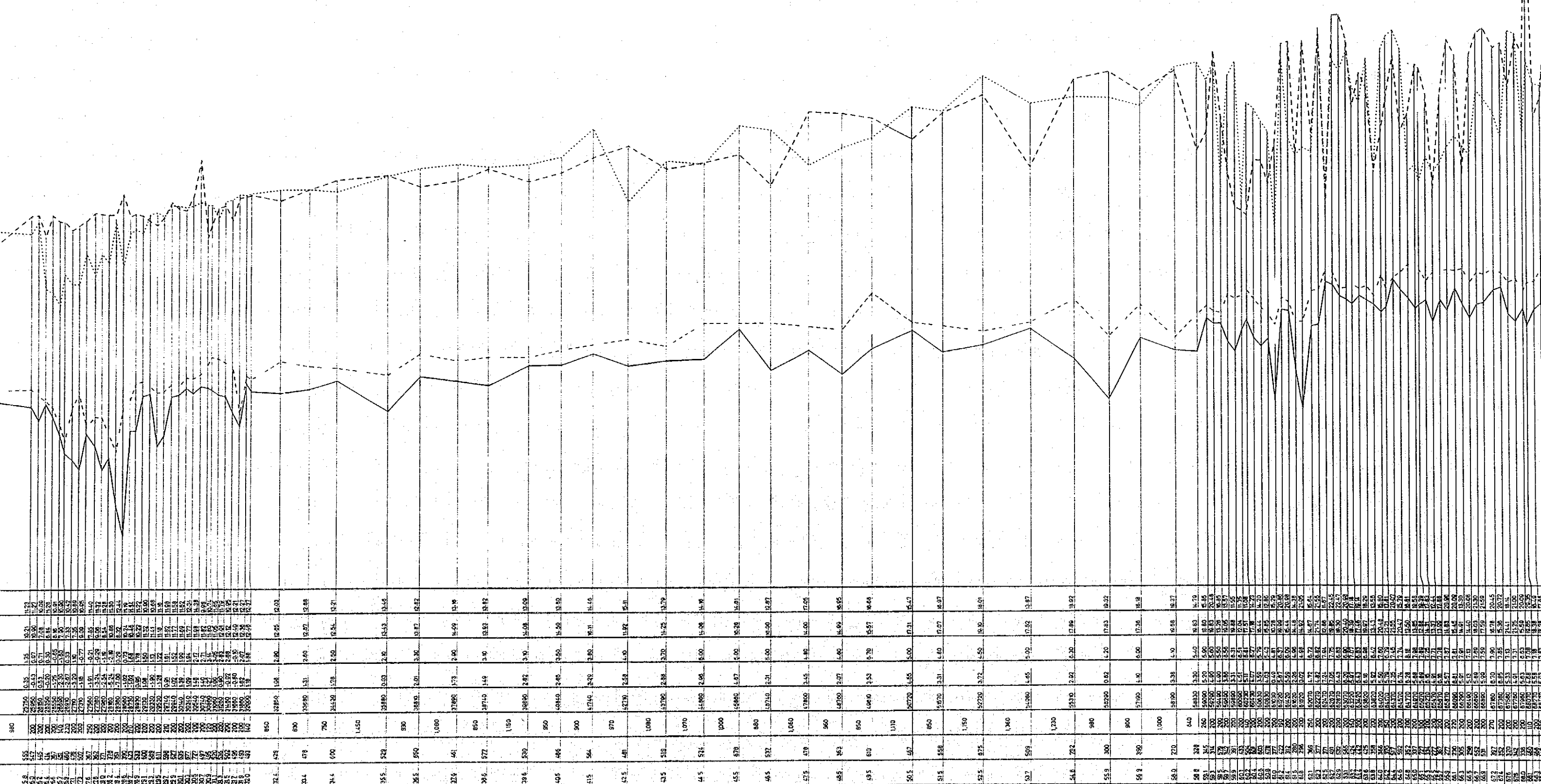
DATUM

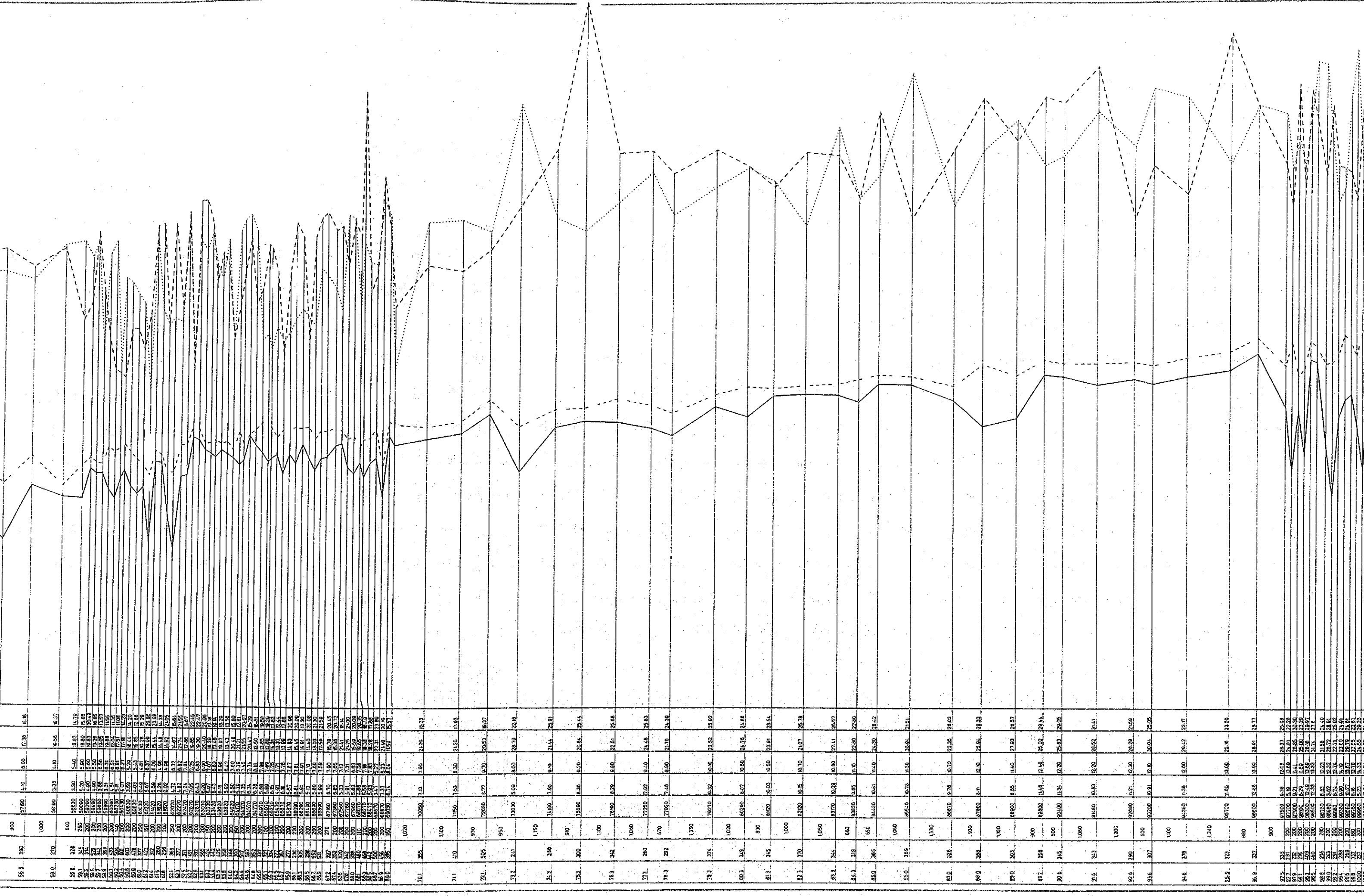
Left Bank	- - - -	07500	0837	0924	1011	1098	1185	1272	1359	1446	1533	1620	1707	1794	1881	1968	2055	2142	2229	2316	2403	2490	2577	2664	2751	2838	2925	3012	3100	3187	3274	3361	3448	3535	3622
Right Bank	07500	0837	0924	1011	1098	1185	1272	1359	1446	1533	1620	1707	1794	1881	1968	2055	2142	2229	2316	2403	2490	2577	2664	2751	2838	2925	3012	3100	3187	3274	3361	3448	3535	3622
Average River Bed	---	07500	0837	0924	1011	1098	1185	1272	1359	1446	1533	1620	1707	1794	1881	1968	2055	2142	2229	2316	2403	2490	2577	2664	2751	2838	2925	3012	3100	3187	3274	3361	3448	3535	3622
Lowest River Bed	---	07500	0837	0924	1011	1098	1185	1272	1359	1446	1533	1620	1707	1794	1881	1968	2055	2142	2229	2316	2403	2490	2577	2664	2751	2838	2925	3012	3100	3187	3274	3361	3448	3535	3622
Distance (m)		07500	0837	0924	1011	1098	1185	1272	1359	1446	1533	1620	1707	1794	1881	1968	2055	2142	2229	2316	2403	2490	2577	2664	2751	2838	2925	3012	3100	3187	3274	3361	3448	3535	3622
Distance Between Cross Section (m)		200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
River Width (m)		335	281	232	178	129	81	33	-13	-21	-13	33	81	129	178	232	281	335	386	437	488	539	590	641	692	743	794	845	896	947	998	1049	1100	1151	1202
Cross Section Reference		97.5	97.7	97.9	98.1	98.3	98.5	98.7	98.9	99.1	99.3	99.5	99.7	99.9	100.1	100.3	100.5	100.7	100.9	101.1	101.3	101.5	101.7	101.9	102.1	102.3	102.5	102.7	102.9	103.1	103.3	103.5	103.7	103.9	



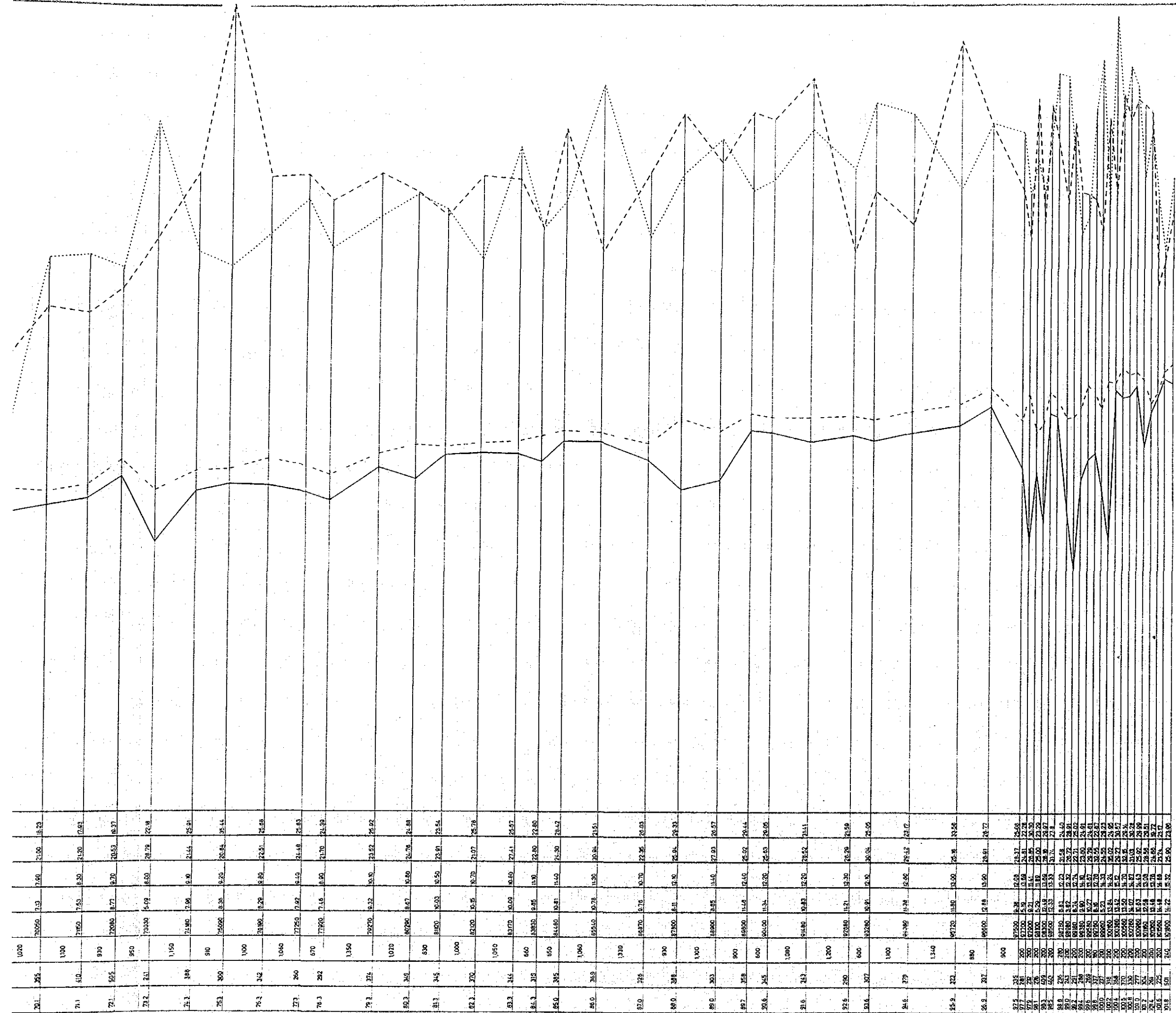


STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
LONGITUDINAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. <small>(Consulting Services)</small>			
SECTION KL12	From TBM NO. 97.5 KM	To TBM NO. 101.8 KM	
SHEET NO. P 5/7	DATE SURVEYED	MAY 1989	
SCALE	Horizontal 1 / 20,000	Vertical 1 / 100	1 / 2000



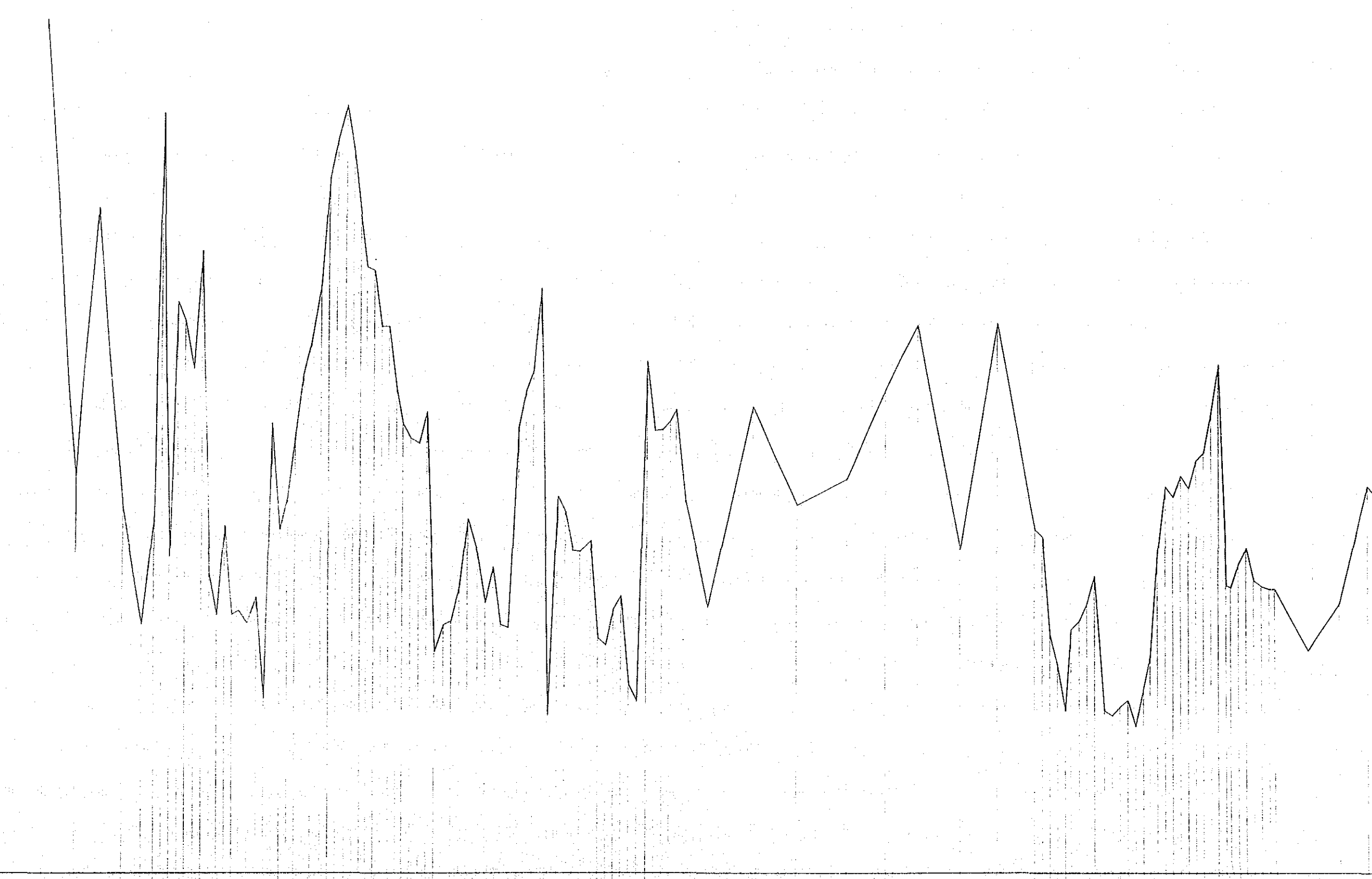


56.9	340	900	521.00	4.10	0.00	17.35	18.88
58.0	270	1000	581.00	3.38	4.10	16.58	16.37
58.4	324	640	588.20	3.30	5.40	16.81	14.70
58.4	312	260	582.80	2.20	4.90	16.90	16.95
58.4	316	200	583.00	2.20	5.60	17.03	17.13
58.5	279	200	584.60	3.00	5.50	16.76	16.76
58.5	284	200	586.00	3.18	6.50	16.78	16.78
58.5	281	200	586.00	3.31	6.31	16.88	16.88
58.5	282	200	587.50	3.31	6.31	17.06	17.06
58.5	283	200	587.50	3.31	6.31	17.24	17.24
58.5	284	200	588.00	3.07	6.71	17.38	17.38
58.5	285	200	589.50	3.59	5.70	16.41	16.20
58.5	286	200	590.00	3.59	5.70	16.41	16.20
58.5	287	200	590.00	3.59	5.70	16.41	16.20
58.5	288	200	590.00	3.59	5.70	16.41	16.20
58.5	289	200	590.00	3.59	5.70	16.41	16.20
58.5	290	200	590.00	3.59	5.70	16.41	16.20
58.5	291	200	590.00	3.59	5.70	16.41	16.20
58.5	292	200	590.00	3.59	5.70	16.41	16.20
58.5	293	200	590.00	3.59	5.70	16.41	16.20
58.5	294	200	590.00	3.59	5.70	16.41	16.20
58.5	295	200	590.00	3.59	5.70	16.41	16.20
58.5	296	200	590.00	3.59	5.70	16.41	16.20
58.5	297	200	590.00	3.59	5.70	16.41	16.20
58.5	298	200	590.00	3.59	5.70	16.41	16.20
58.5	299	200	590.00	3.59	5.70	16.41	16.20
58.5	300	200	590.00	3.59	5.70	16.41	16.20
58.5	301	200	590.00	3.59	5.70	16.41	16.20
58.5	302	200	590.00	3.59	5.70	16.41	16.20
58.5	303	200	590.00	3.59	5.70	16.41	16.20
58.5	304	200	590.00	3.59	5.70	16.41	16.20
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58.5	309	200	590.00	3.59	5.70	16.41	16.20
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58.5	335	200	590.00	3.59	5.70	16.41	16.20
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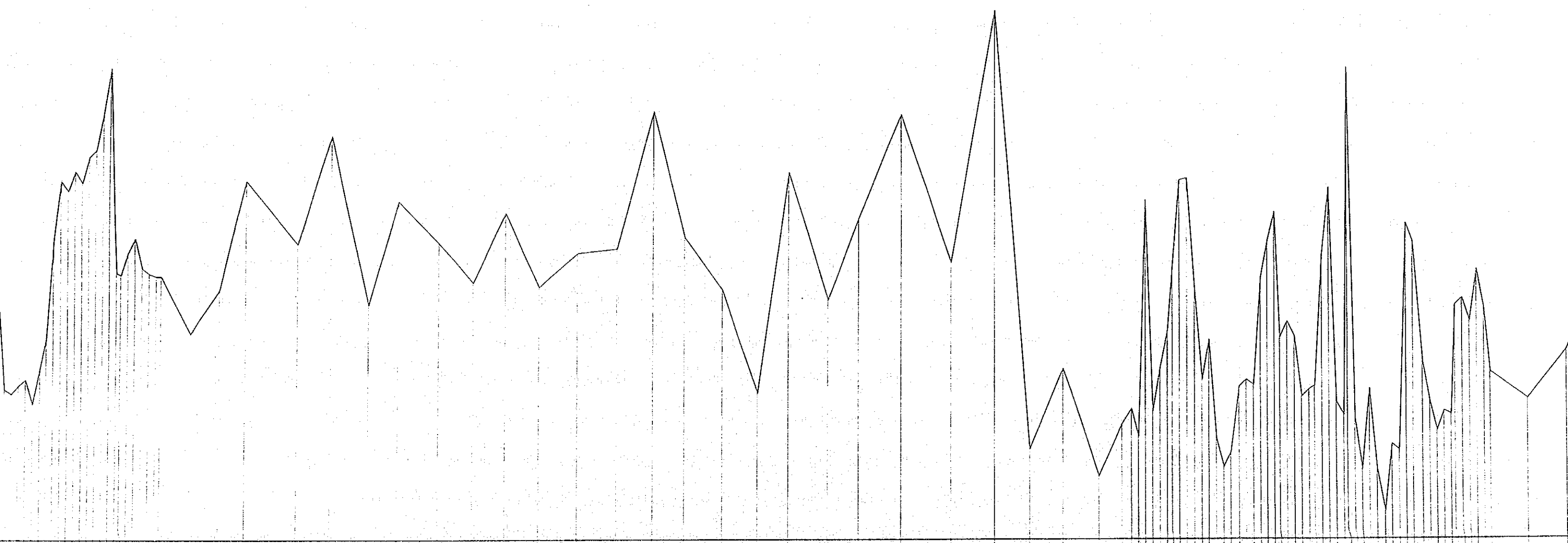
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
LONGITUDINAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SON. BHD. (Consulting Engineers)			
SECTION 1-12	From IBM NO	00	KM To IBM NO 1018 KM
SHEET NO	P 6/7	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 50,000 Vertical : 1 / 100		

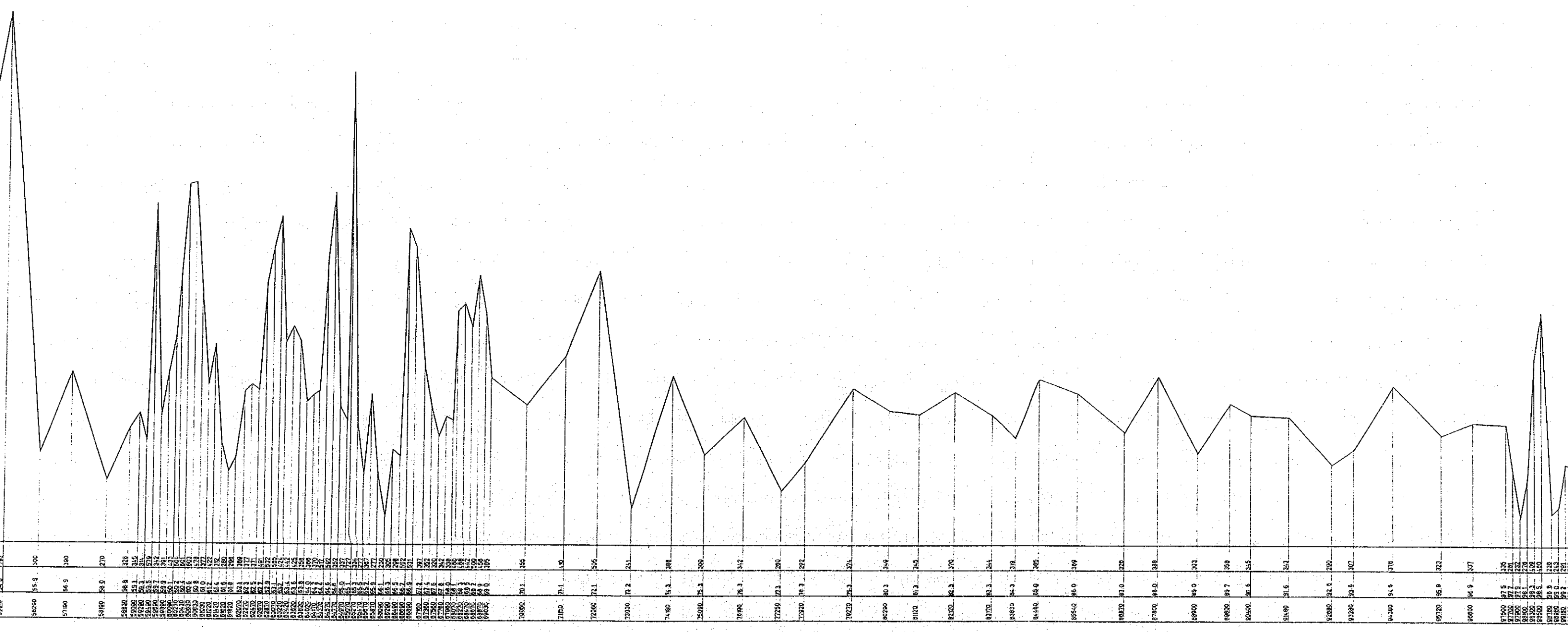
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 840.00 m
 820.00 m
 800.00 m
 780.00 m
 760.00 m
 740.00 m
 720.00 m
 700.00 m
 680.00 m
 660.00 m
 640.00 m
 620.00 m
 600.00 m
 580.00 m
 560.00 m
 540.00 m
 520.00 m
 500.00 m
 480.00 m
 460.00 m
 440.00 m
 420.00 m
 400.00 m
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 260.00 m
 240.00 m
 220.00 m
 200.00 m



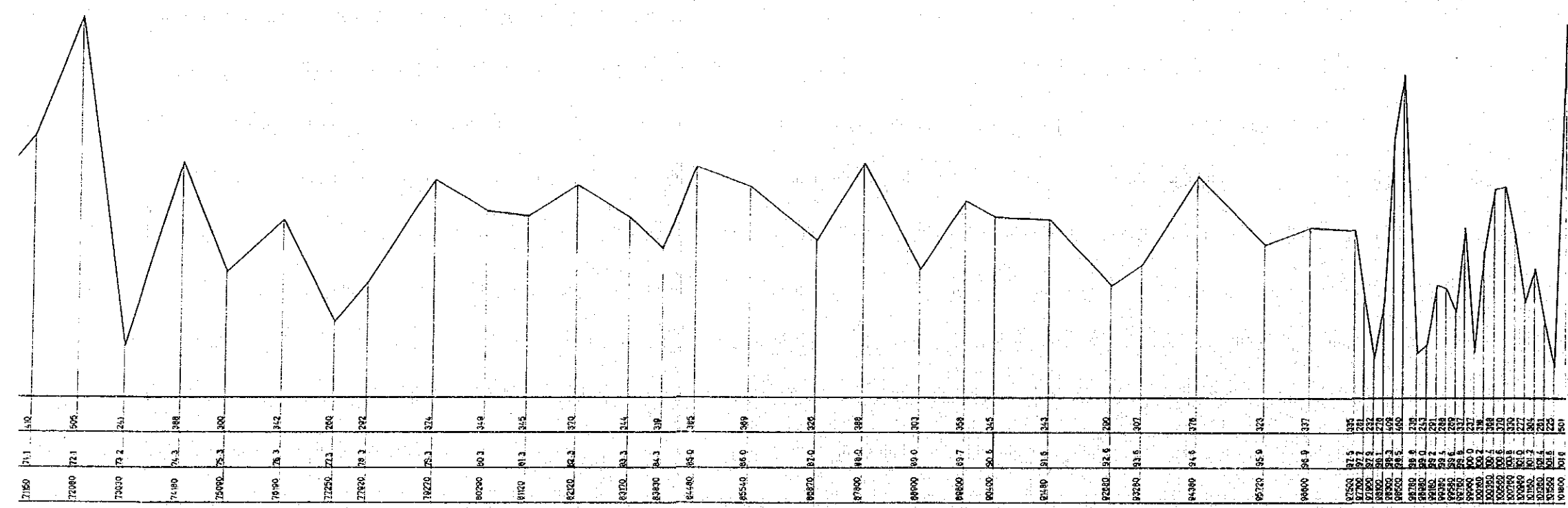
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500	480
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700	520
800	780
900	450
1000	820
1100	420
1200	650
1300	580
1400	400
1500	620
1600	550
1700	480
1800	520
1900	450
2000	580
2100	500
2200	420
2300	550
2400	480
2500	520
2600	450
2700	580
2800	500
2900	420
3000	550
3100	480
3200	520
3300	450
3400	600

27760 27.6 362
27800 28.0 371
27840 28.4 379
27880 28.8 381
27920 29.2 385
27960 29.6 390
28000 30.0 395
28040 30.4 399
28080 30.8 400
28120 31.2 401
28160 31.6 402
28200 32.0 403
28240 32.4 405
28280 32.8 408
28320 33.2 411
28360 33.6 414
28400 34.0 417
28440 34.4 420
28480 34.8 423
28520 35.2 426
28560 35.6 429
28600 36.0 432
28640 36.4 435
28680 36.8 438
28720 37.2 441
28760 37.6 444
28800 38.0 447
28840 38.4 450
28880 38.8 453
28920 39.2 456
28960 39.6 459
29000 40.0 462
29040 40.4 465
29080 40.8 468
29120 41.2 471
29160 41.6 474
29200 42.0 477
29240 42.4 480
29280 42.8 483
29320 43.2 486
29360 43.6 489
29400 44.0 492
29440 44.4 495
29480 44.8 498
29520 45.2 501
29560 45.6 504
29600 46.0 507
29640 46.4 510
29680 46.8 513
29720 47.2 516
29760 47.6 519
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29840 48.4 525
29880 48.8 528
29920 49.2 531
29960 49.6 534
30000 50.0 537
30040 50.4 540
30080 50.8 543
30120 51.2 546
30160 51.6 549
30200 52.0 552
30240 52.4 555
30280 52.8 558
30320 53.2 561
30360 53.6 564
30400 54.0 567
30440 54.4 570
30480 54.8 573
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30720 57.2 591
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STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
LONGITUDINAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)	
SECTION 1-12	From TBM NO. 0.0 KM To TBM NO. 101.8 KM
SHEET NO. P 7/7	DATE SURVEYED MAY 1989
SCALE	Horizontal 1 / 50,000 Vertical 1 / 2000