

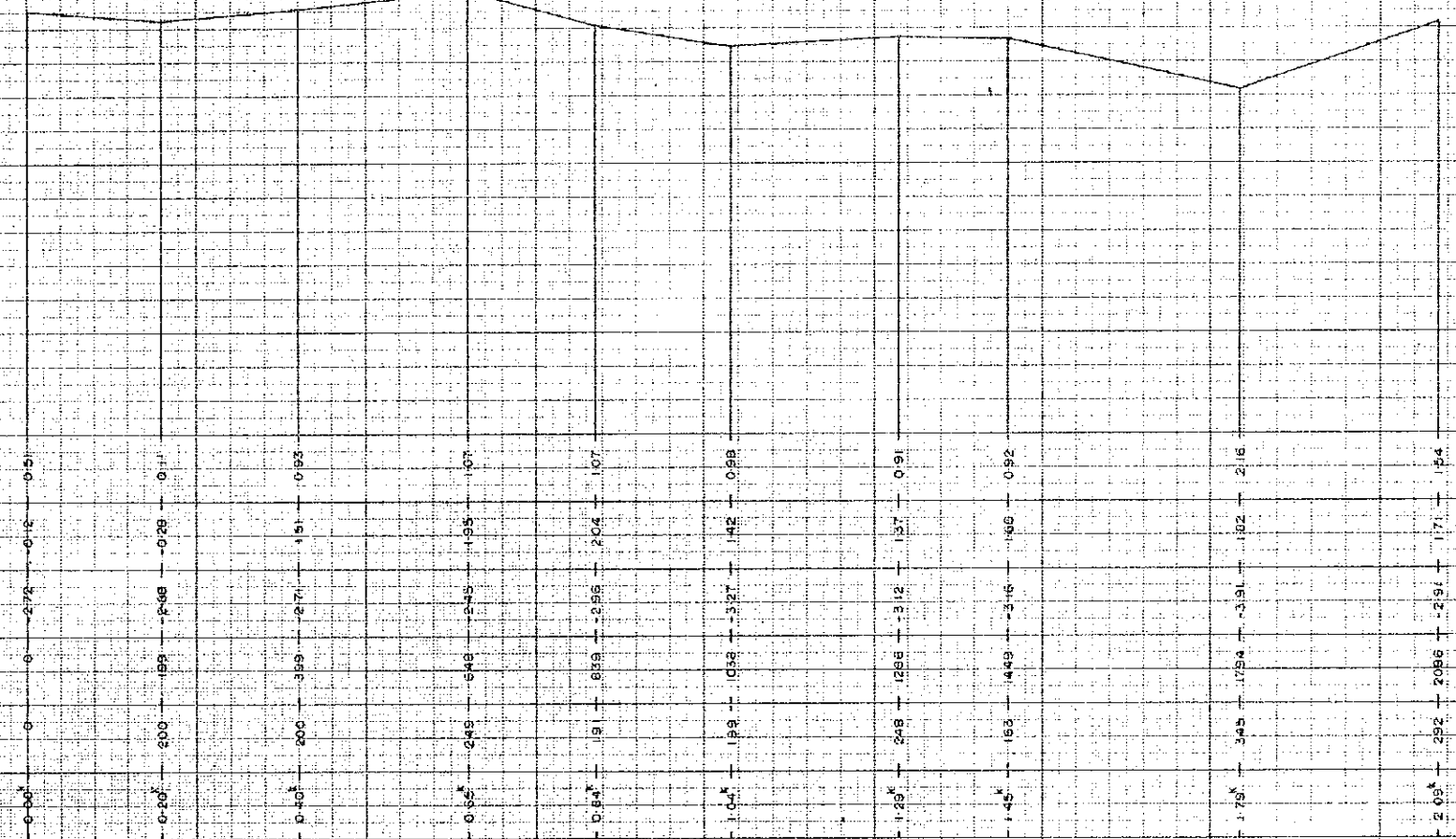
RIVER CROSS SECTIONS OF SUNGAI BERUAS

LINE NO. 1.04 km — LINE NO. 2.09 km

NOTE: ALL LEVELS ARE BASED ON BM 102 WHICH IS 1.20 m ABOVE L.M.S. 1000 FT. POINT, OCTOBER 1951.  
WATER LEVEL - 1.20 AND 2.09 km ARE 0.24 m

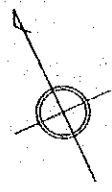
DATUM 00 m

LINE NO.	SECTIONAL DISTANCE (m)	THE DEF. LEVEL (m)	LEVEL OF BANK LEFT BANK	RIGHT BANK
0-00	0	-2.72	-0.12	0.51
0-00	200	-2.98	-0.29	0.11
0-40	200	-2.71	-1.51	0.93
0-65	245	-2.45	-1.95	1.07
0-94	311	-2.96	-2.04	1.07
1-04	399	-3.27	-1.42	0.88
1-29	248	-3.12	-1.37	0.91
1-45	153	-3.16	-1.66	0.92
1-75	345	-3.91	-1.82	2.16
2-05	292	-2.91	-1.71	1.54



RIVER PROFILE OF SUNGAI BERUAS

NOTE:  
 HEIGHT DATUM: ALL LEVELS ARE BASED ON BM. NO. 10376 (4.328M ABOVE L.S.D.)  
 DATE OF SURVEY: OCTOBER 1992.  
 DATUM LEVEL: LAND AND SURVEY DATUM (1980)



NATIONAL RIVER MOUTHS STUDY  
SUNGAI KUANTAN

LEGEND	
METALLED ROAD	—————
TRUCK	—————
FOOTPATH	—————
RAILROAD	—————
BRIDGE	—————
JETTY	—————
VEGETATION LINE	—————
RETAINING WALL	—————
DIKE	—————

NOTE:  
HEIGHT GIVEN: ALL LEVELS ARE BASED ON BM NO. 42713 3406 ABOVE LUD1  
DATE OF SURVEY: OCTOBER 1958  
SCALE: 1:50,000 (1" = 1 MILE)





NATIONAL RIVER MOUTHS STUDY  
SUNGAI KUANTAN

LEGEND	
METALLED ROAD	—————
ROAD	—————
FOOTPATH	.....
COASTAL ROAD	—————
QUAY / STEAM	—————
JETTY	—————
RAILING	—————
WATERWAY LIMIT	—————
SEWERAGE DRAIN	—————
BRIDGE	—————

NOTE  
HEIGHT DATUM: ALL LEVELS ARE BASED ON BM NO. 47713 50CM ABOVE L.S.M.  
DATE OF SURVEY: OCTOBER 1962  
DATE LEVEL: 1960 AND 1961 (S.M.S.)



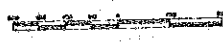
KUANTAN

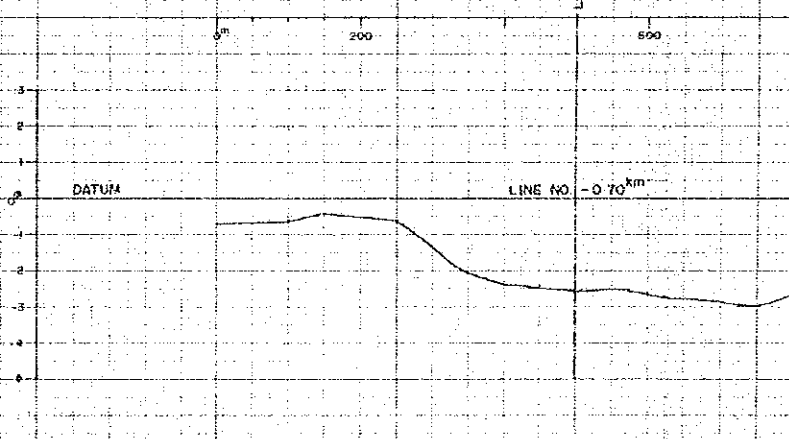
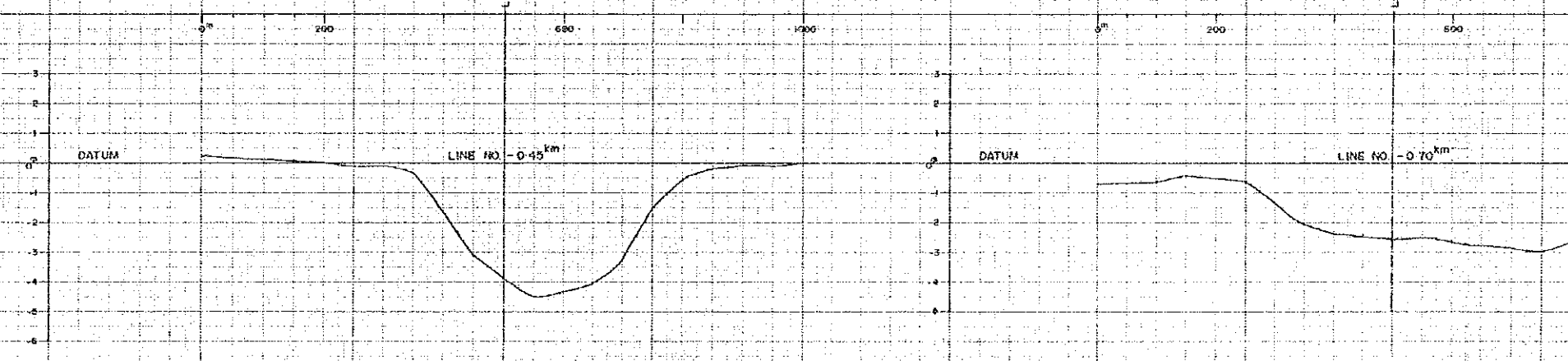
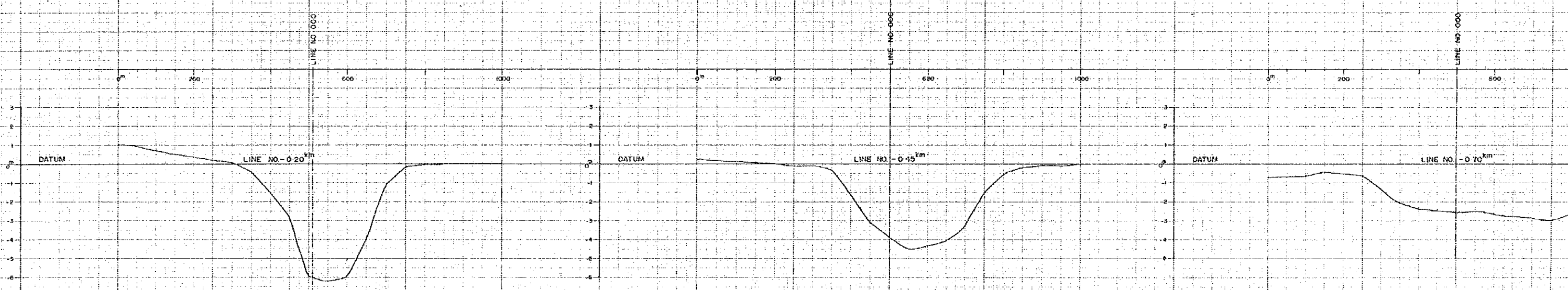
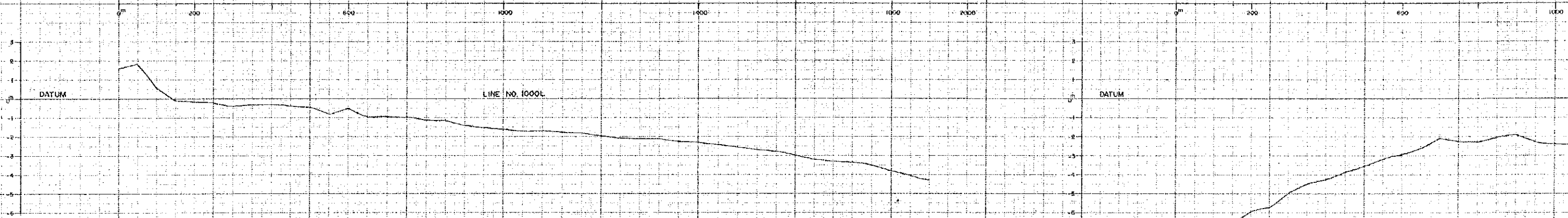
SUNGAI

NATIONAL RIVER MOUTHS STUDY  
 SUNGAI KUANTAN

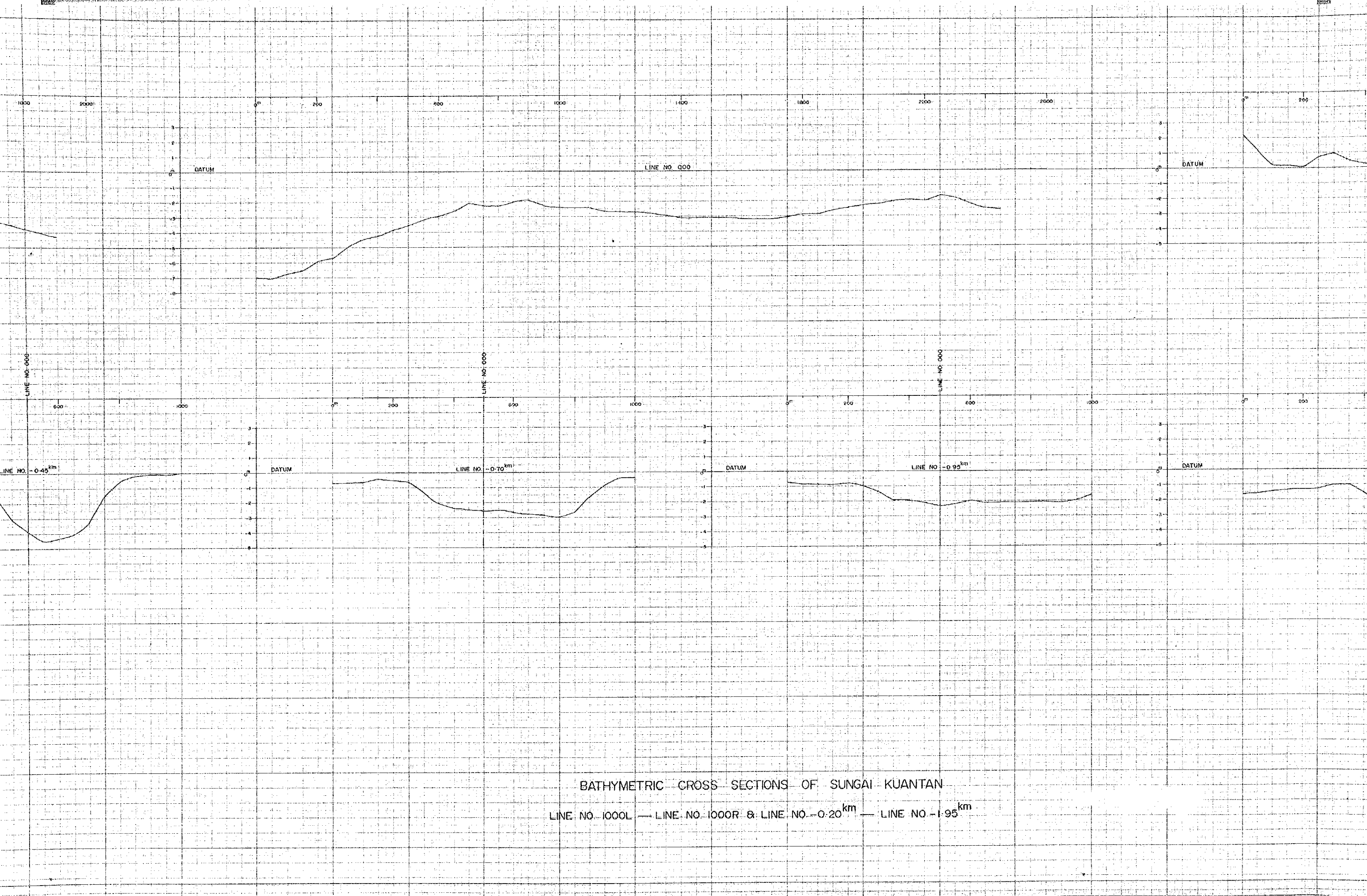
LEVEE	---
RAILROAD	—+—+—+—+—
TRACK	—+—+—+—+—
FOOTPATH	—+—+—+—+—
COASTAL SAND	—+—+—+—+—
RIVER / RIVERBANK	—+—+—+—+—
JETTY	—+—+—+—+—
RAILROAD	—+—+—+—+—
VEGETATION LINE	—+—+—+—+—
RETAINING WALL	—+—+—+—+—
SHORE	—+—+—+—+—

NOTE  
 HEIGHT DATA: ALL LEVELS ARE BASED ON BM NO. 54711.3406 ABOVE LAD1  
 DATE OF SURVEY: OCTOBER 1960  
 DATUM LEVEL: LAD1 AND DATUM DATE: 5/20/60





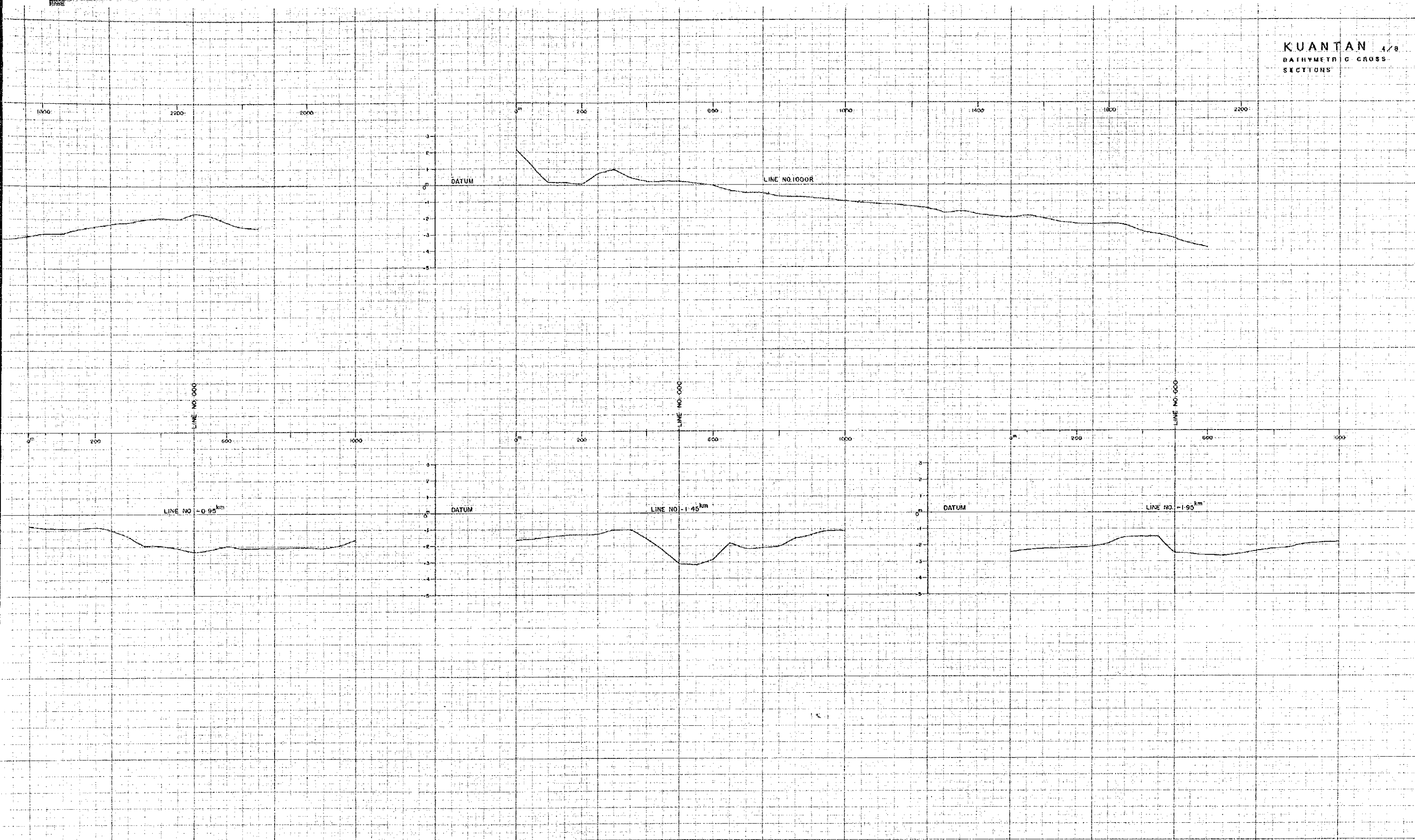
B  
LINE NO.



BATHYMETRIC CROSS SECTIONS OF SUNGAI KUANTAN

LINE NO. 1000L — LINE NO. 1000R & LINE NO. -0.20 km — LINE NO. -1.95 km

KUANTAN 1/8  
BATHYMETRIC CROSS  
SECTIONS

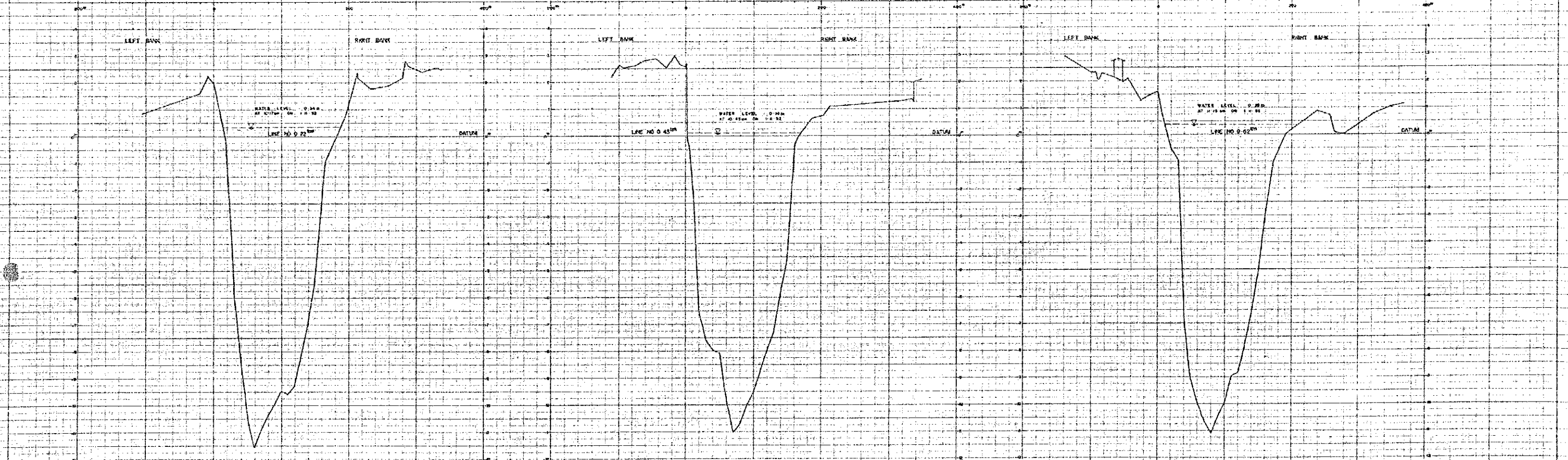
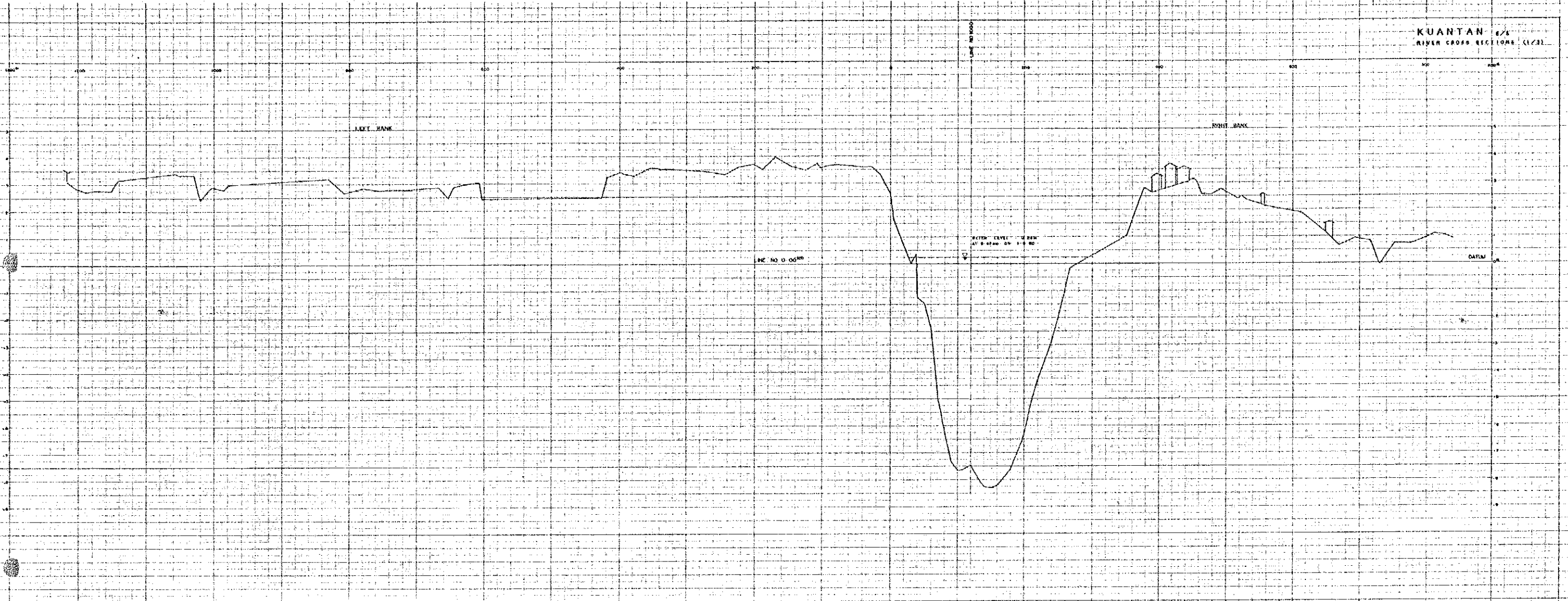


CROSS SECTIONS OF SUNGAI KUANTAN

LINE NO. 0.20 km — LINE NO. 1.95 km

NOTE  
HEIGHT DATUM: ALL LEVELS ARE BASED ON BM NO. C172 (3.540m ABOVE LSD)  
DATE OF SURVEY: OCTOBER 1992  
DATUM LEVEL: LAND AND SURVEY DATUM (LSD)

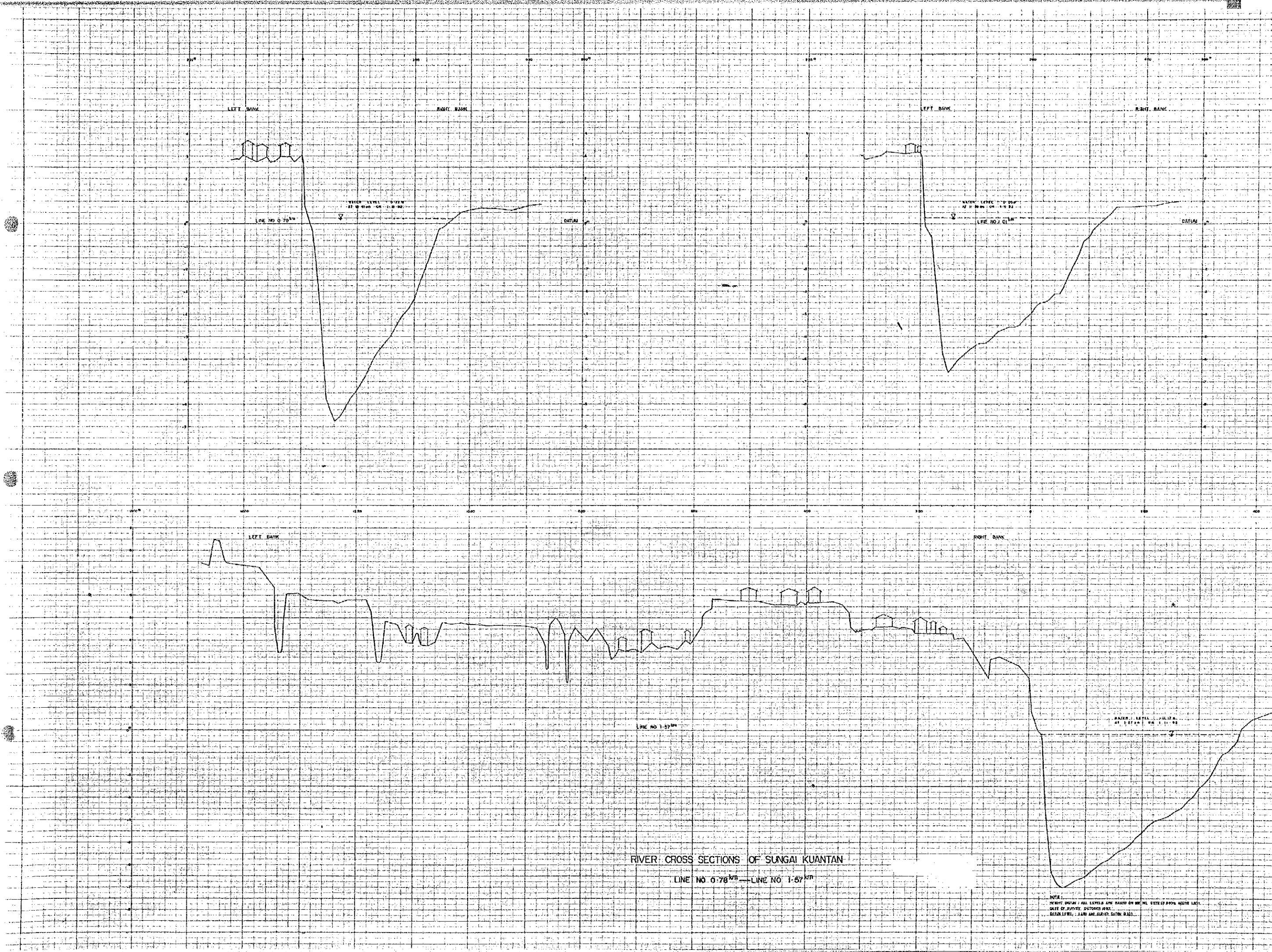


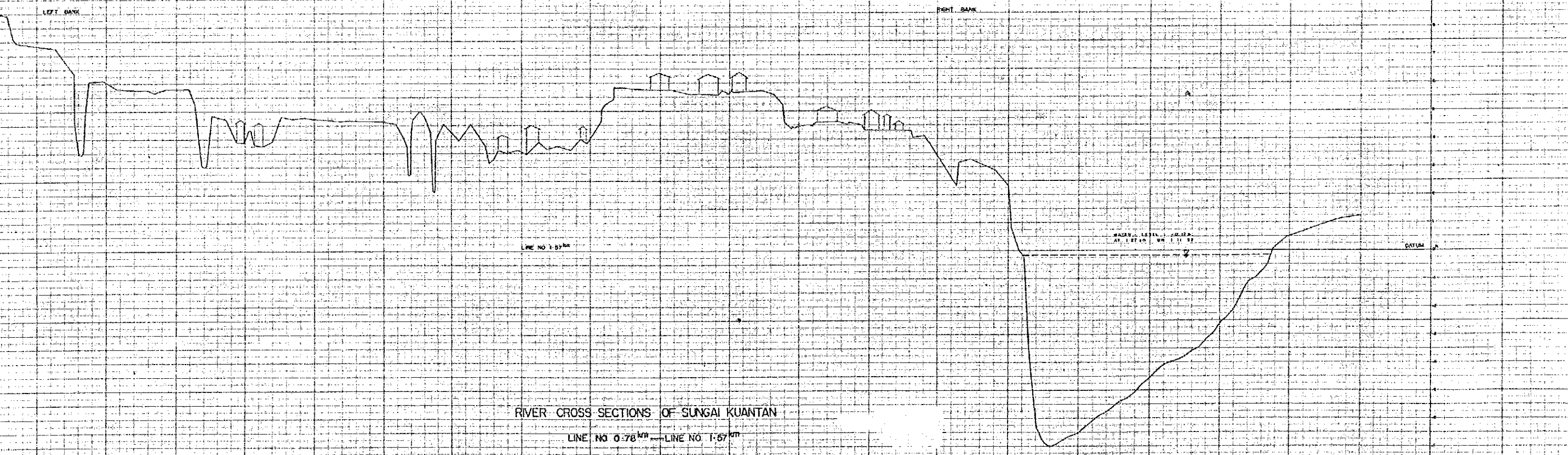
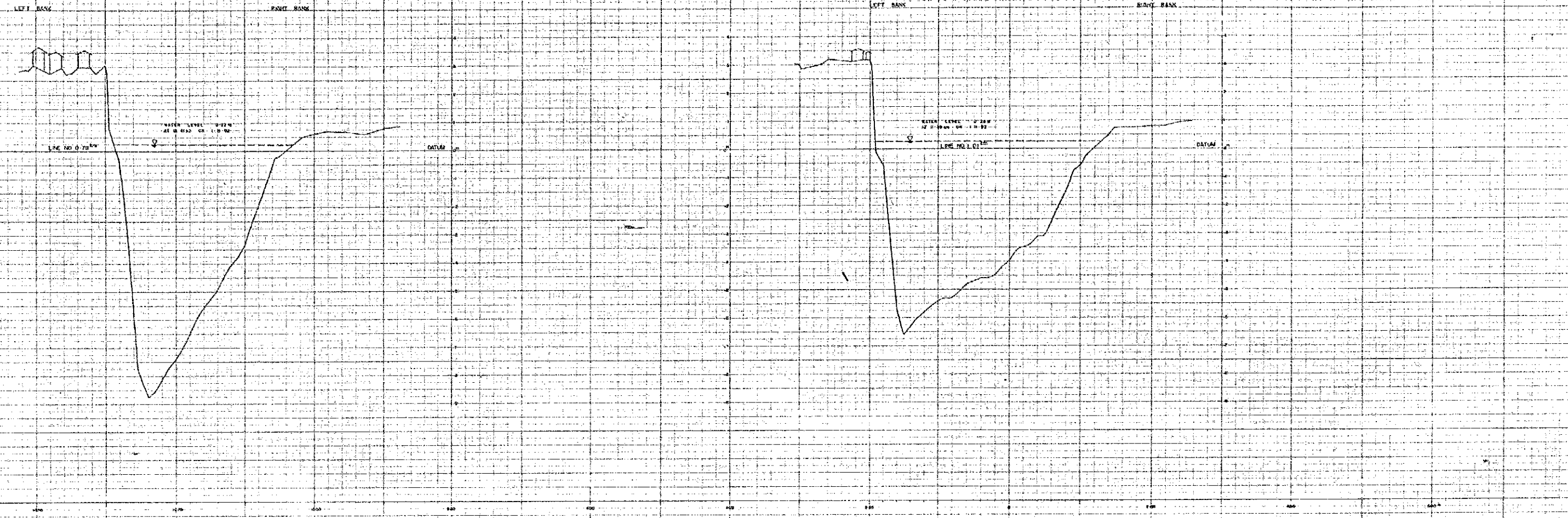


RIVER CROSS SECTIONS OF SUNGAI KUANTAN  
 LINE NO 0.00 km — LINE NO 0.62 km

HORZ: 1:2000  
 VERT: 1:50

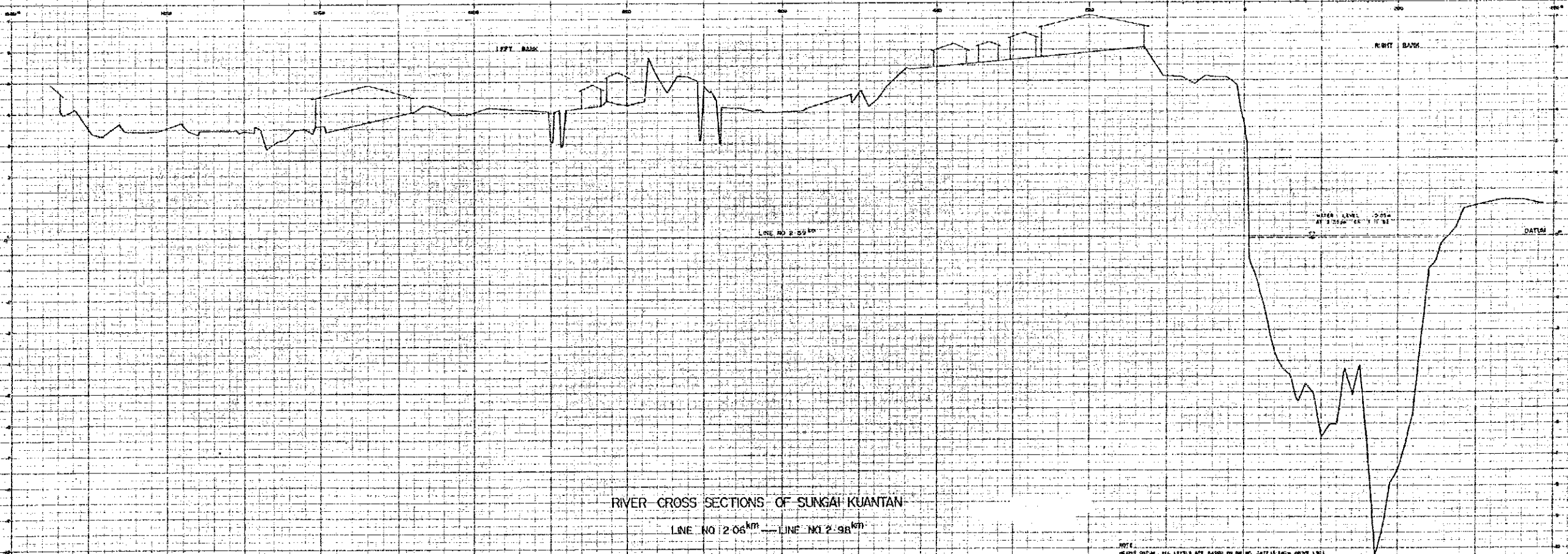
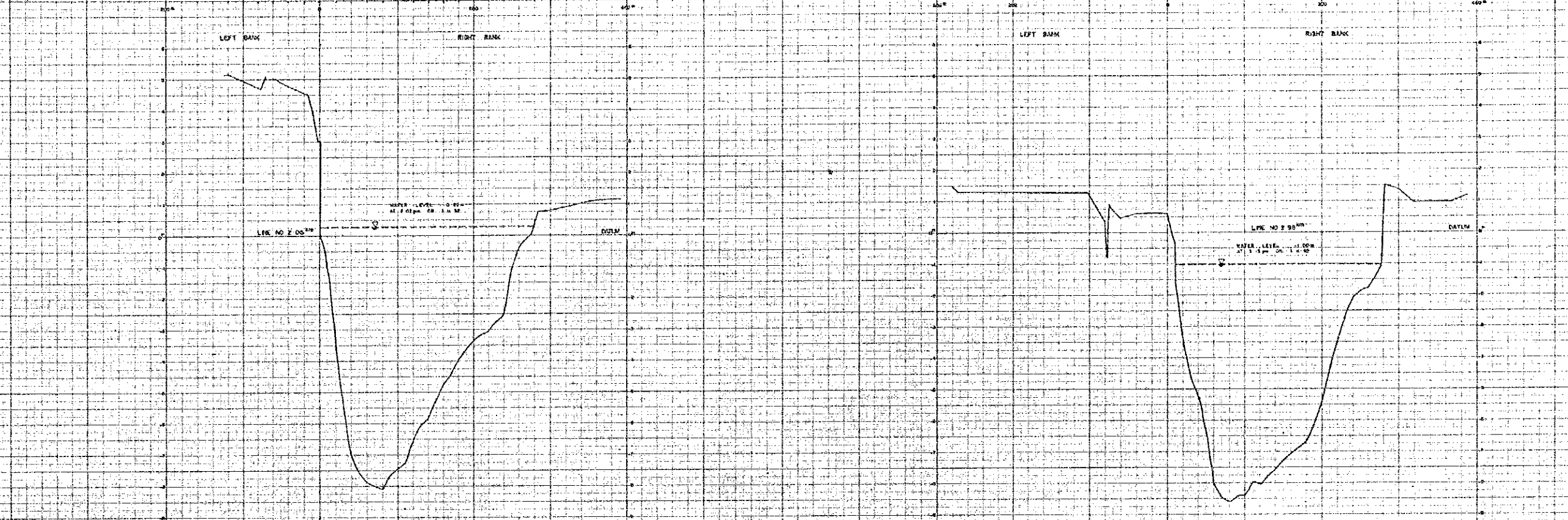
NOTE:  
 HEIGHTS SHOWN: ALL LEVELS ARE BASED ON BM. 10 (CFT) 0.1404 ABOVE LSP1  
 DATE OF SURVEY: OCTOBER 1952  
 DATUM LEVEL: 1.483 AND BENCH MARK 0.140





RIVER CROSS SECTIONS OF SUNGAI KUANTAN  
LINE NO 0.70 km — LINE NO 1.57 km

NOTE:  
HEIGHT GIVEN / MSL LEVEL HAS BEEN ON AN NO. 10718 FROM ABOVE MAP.  
DATE IS ABOVE DETOUR MAP.  
ELEVATION: 1000 MMS ABOVE DATUM.



RIVER CROSS SECTIONS OF SUNGAI KUANTAN

LINE NO 2-06 km — LINE NO 2-98 km

NOTE:  
HEIGHTS SHOWN ALL LEVELS ARE BASED ON DATUM 1973 IS EACH ABOVE LINE  
DATE OF SURVEY: FEBRUARY 1973  
WATER LEVEL: LINE 2-06 SURVEY WITH 0.05

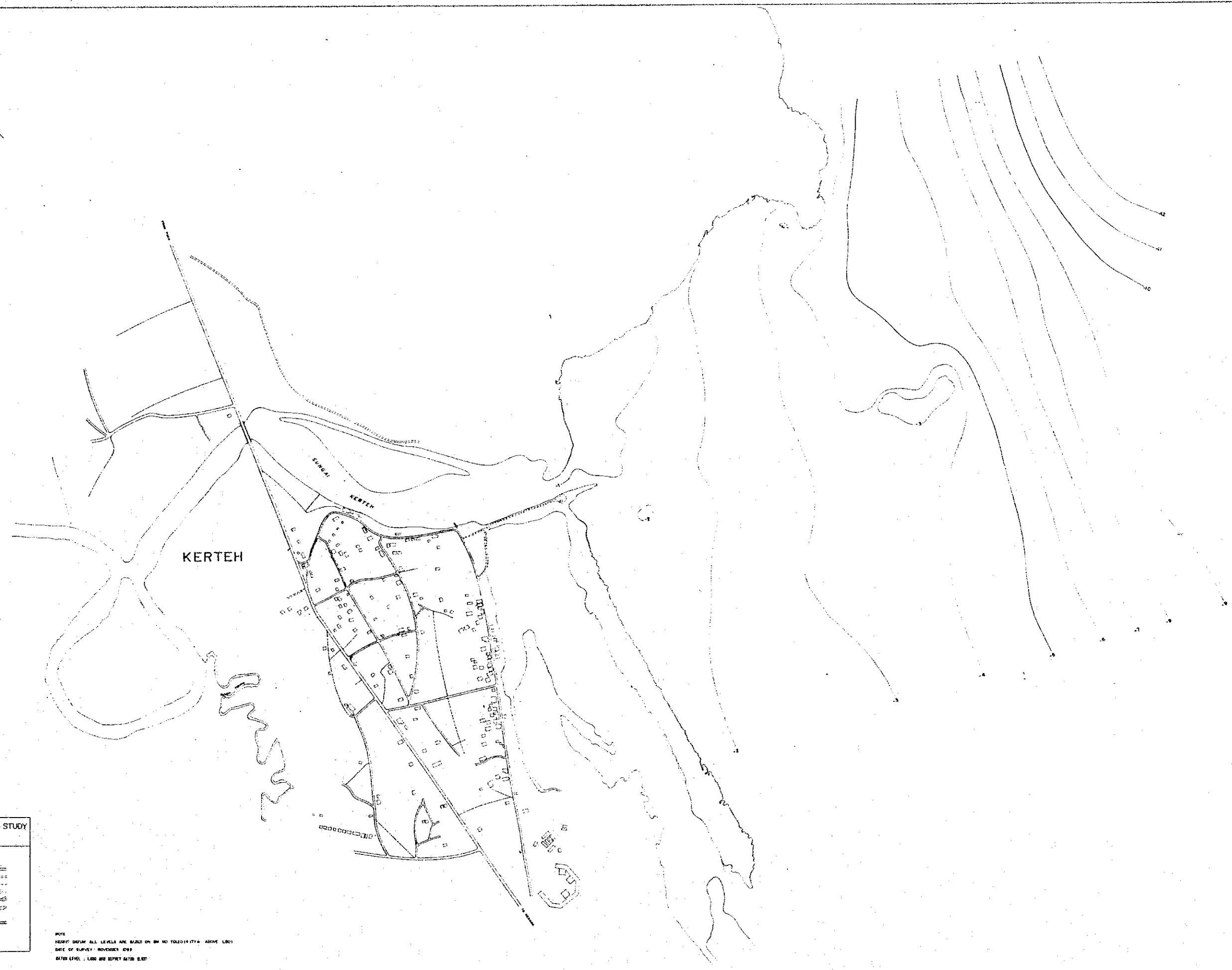
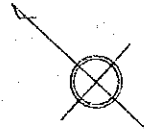
DATUM 00 m

LINE NO	SECTIONAL DISTANCE (m)	CANAL THE DISTANCE (m)	THE DEPTH LEVEL (m)	LEVEL OF BANK LEFT BANK	LEVEL OF BANK RIGHT BANK
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0.00	0	0	-0.34	1.68	0.94
0.22	220	320	-11.59	1.97	0.81
0.32	310	330	-11.01	2.63	0.65
0.52	430	620	-11.09	0.76	0.03
0.78	450	780	-8.78	2.75	0.50
1.01	250	1010	-6.60	3.01	0.72
1.97	350	1270	-7.03	2.29	0.51
2.06	430	2060	-6.10	3.03	0.77
2.95	650	2950	-0.29	3.56	0.95
2.98	330	2980	-0.61	0.60	1.50

RIVER PROFILE OF SUNGAI KUANTAN

NOTE  
 HEIGHT DATUM : ALL LEVELS ARE BASED ON BM NO. 0172 (8.340M ABOVE L.S.O.)  
 DATE OF SURVEY : OCTOBER 1992.  
 DATUM LEVEL : LAND AND SURVEY DATUM (R.S.O.)



NATIONAL RIVER MOUTHS STUDY  
SUNGAI KERTEH

LEGEND	
ACTUAL ROAD	—————
TRUCK	—————
FOOTPATH	—————
COASTAL BARRIERS	—————
RIVER / STREAM	—————
BUILDING	□
VEGETATION LIMIT	—————
BRIDGE	—————

NOTE  
HEIGHT DATUM ALL LEVELS ARE BASED ON BM NO TOLUD 1174 ABOVE LRD  
DATE OF SURVEY: NOVEMBER 1992  
DATUM LEVEL: LRD AND SPRTY MTD 1.501

