

マレーシア国

ジョージタウン・バタワース道路計画調査(フェーズII・ステージ1)

外環状道路フィジビリティ調査

[基本設計編]

昭和56年5月

国際協力事業団

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PRELIMINARY ENGINEERING DRAWINGS

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PRELIMINARY ENGINEERING DRAWINGS

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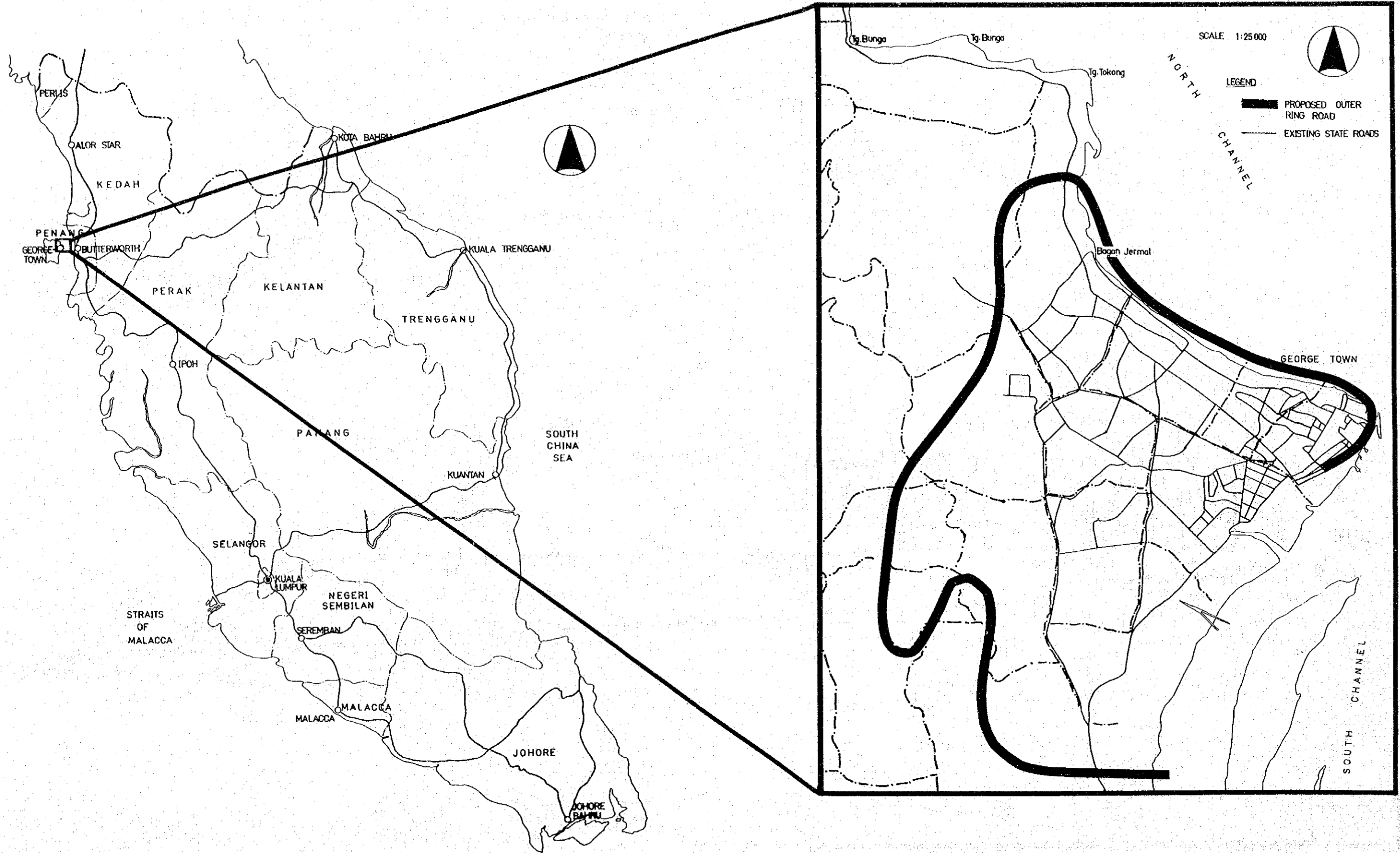
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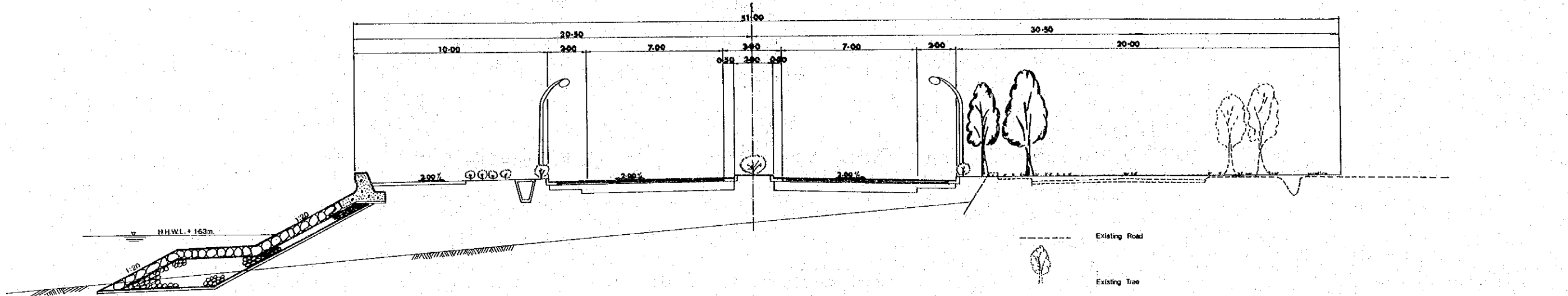
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LOCATION OF PENANG OUTER RING ROAD

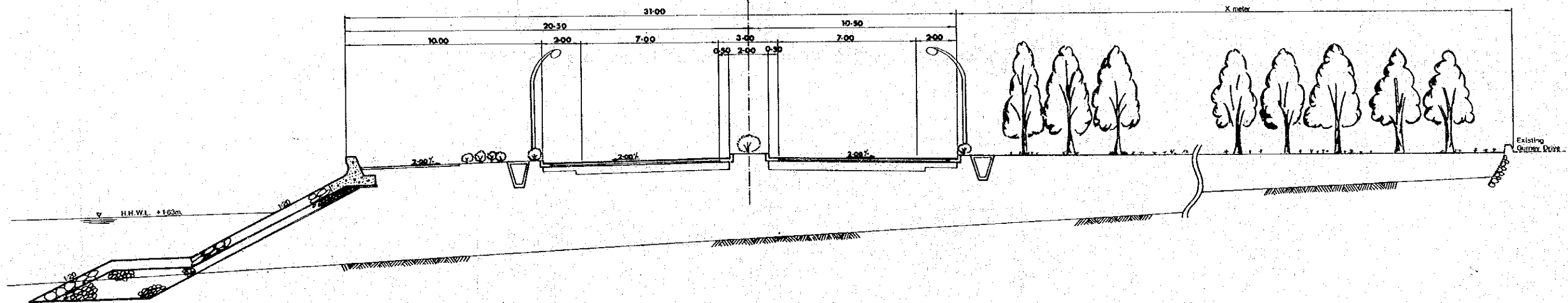


TYPICAL CROSS-SECTION

Improvement of existing GURNEY DRIVE (4-LANE)

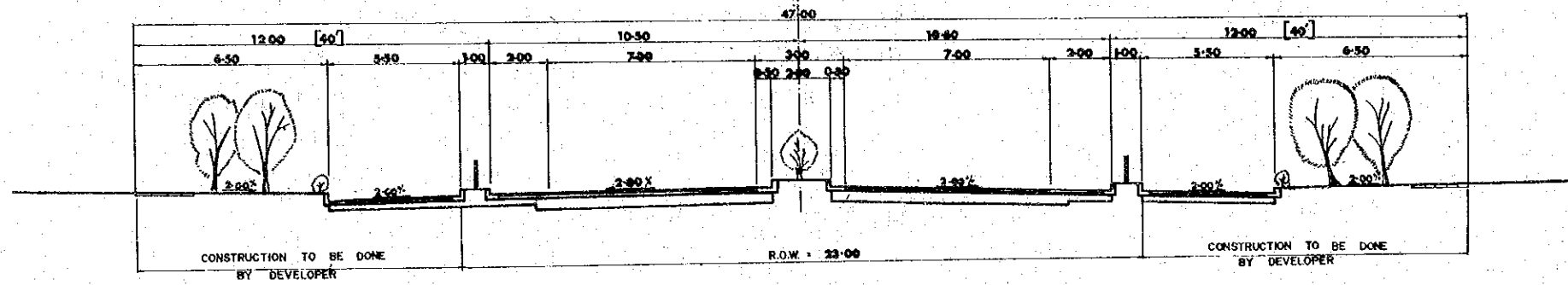


Extension of GURNEY DRIVE (4-LANE)

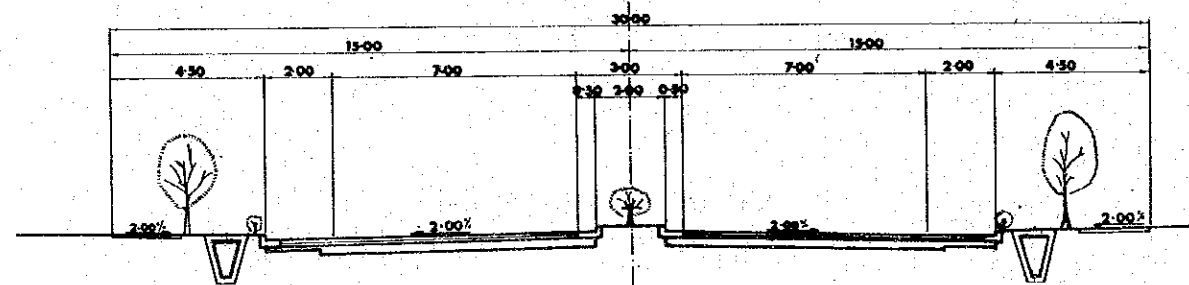


TYPICAL CROSS-SECTION

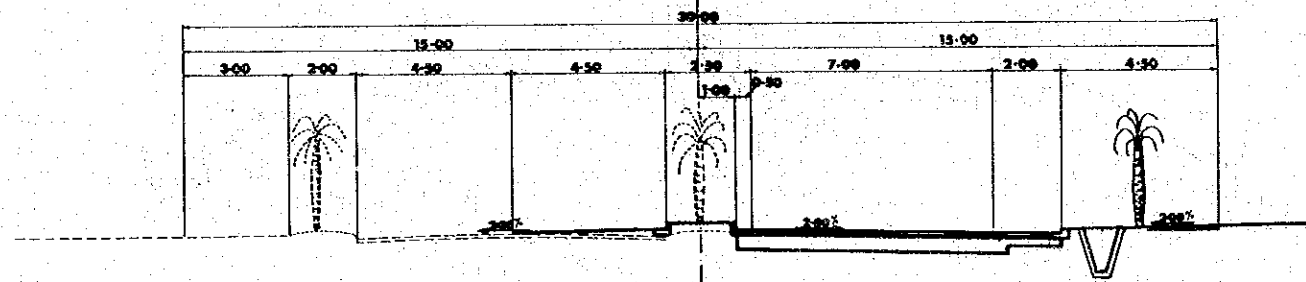
Residential Areas with Service Roads (4-LANE)



Residential Areas without Service Roads (4-LANE)

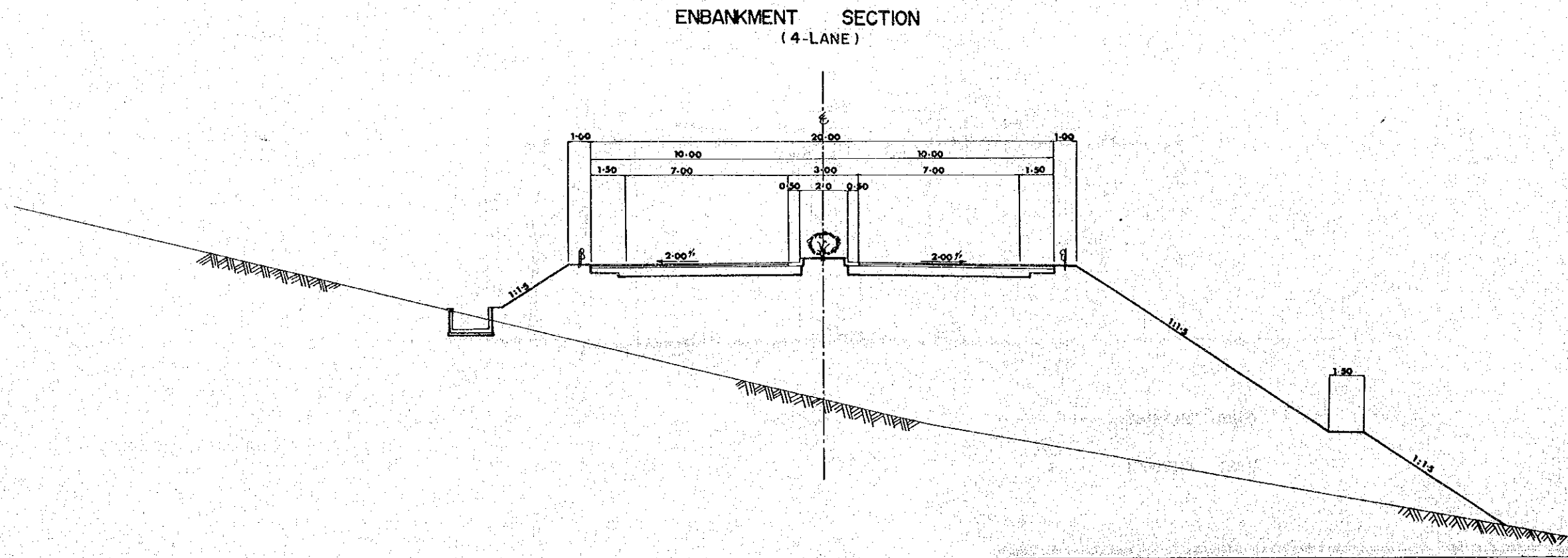
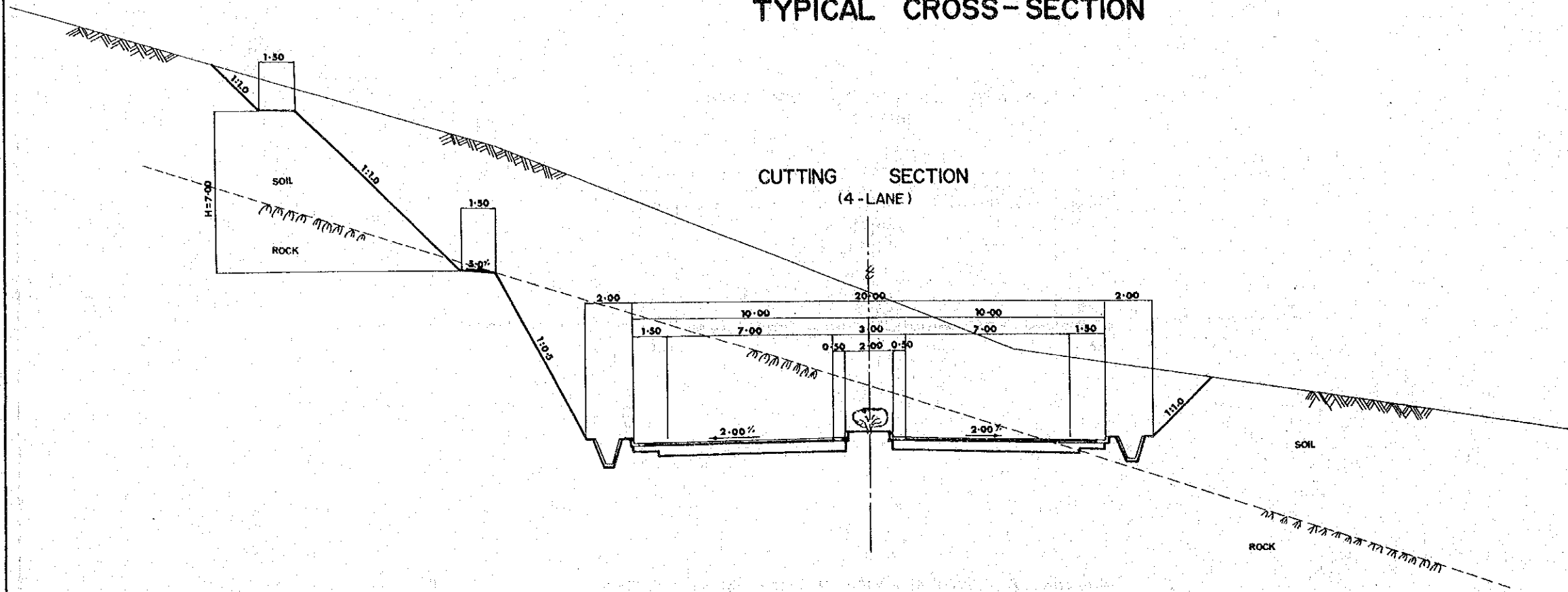


Improvement of existing JALAN GOTTLIEB & BAGAN JERMAL (4-LANE)



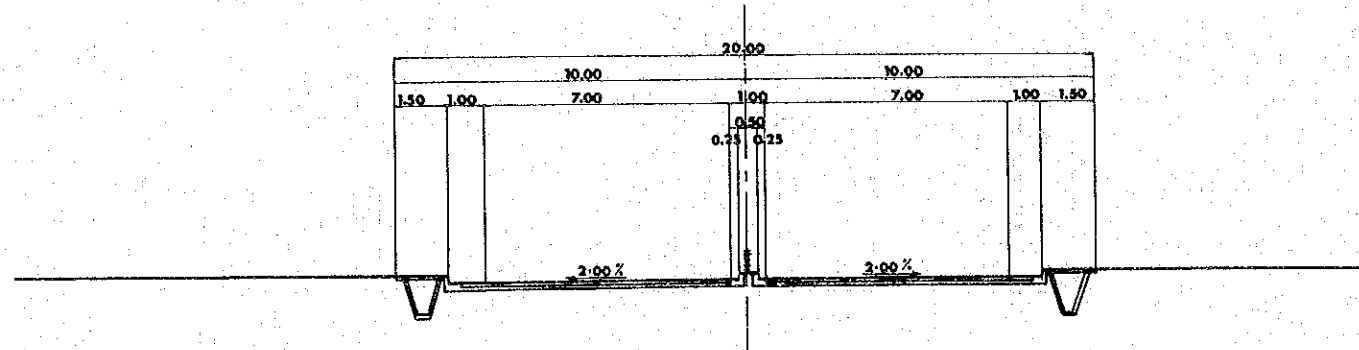
----- Existing Road

TYPICAL CROSS-SECTION



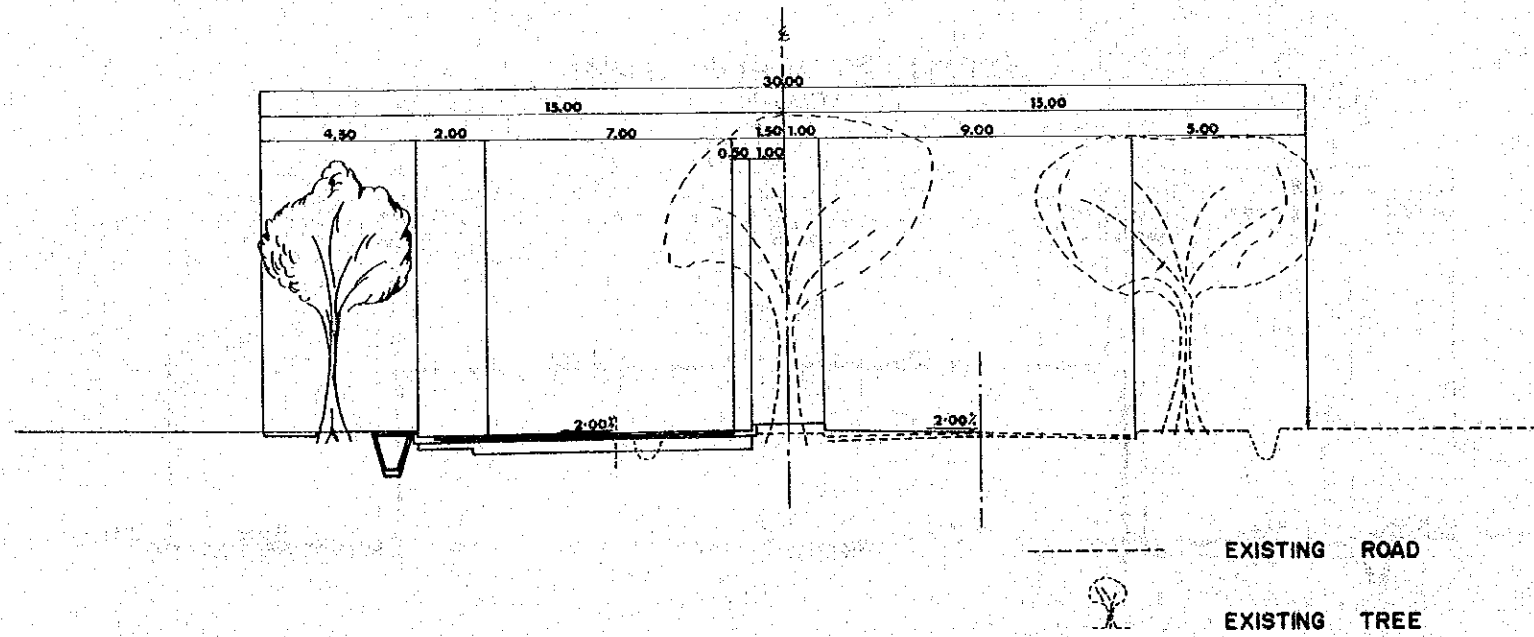
TYPICAL CROSS-SECTION

IMPROVEMENT OF EXISTING WELD QUAY
(4-LANE)



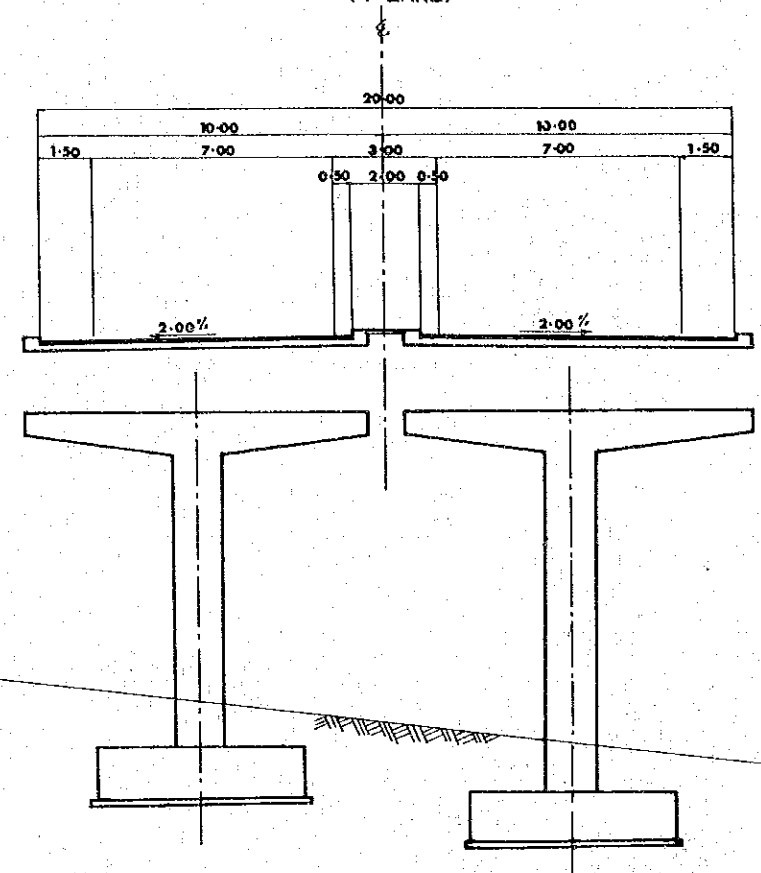
IMPROVEMENT OF EXISTING JALAN NORTHAM & KELAWEI

(4-LANE)

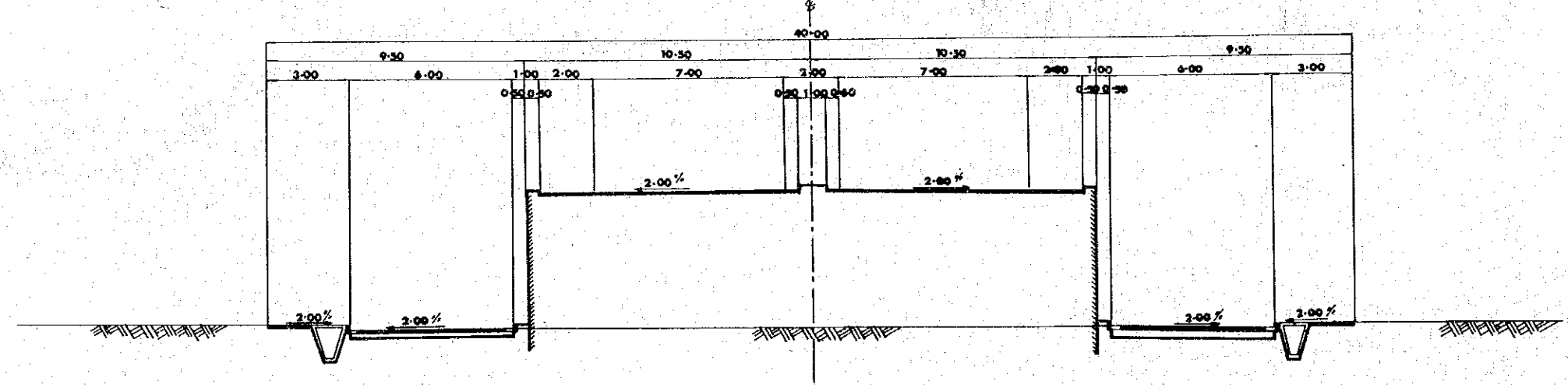


TYPICAL CROSS - SECTION

BRIDGE SECTION (4-LANE)

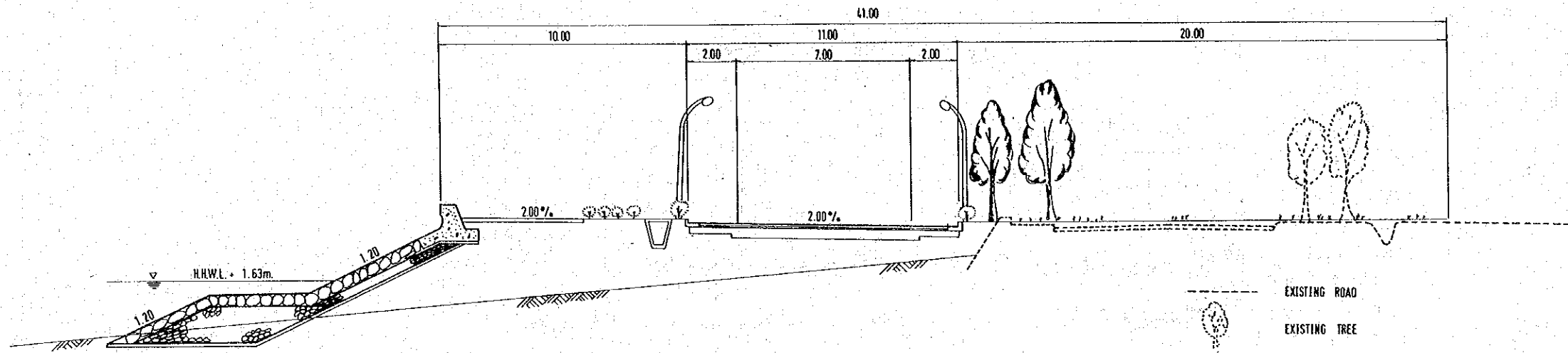


GRADE SEPARATION SECTION (4-LANE)

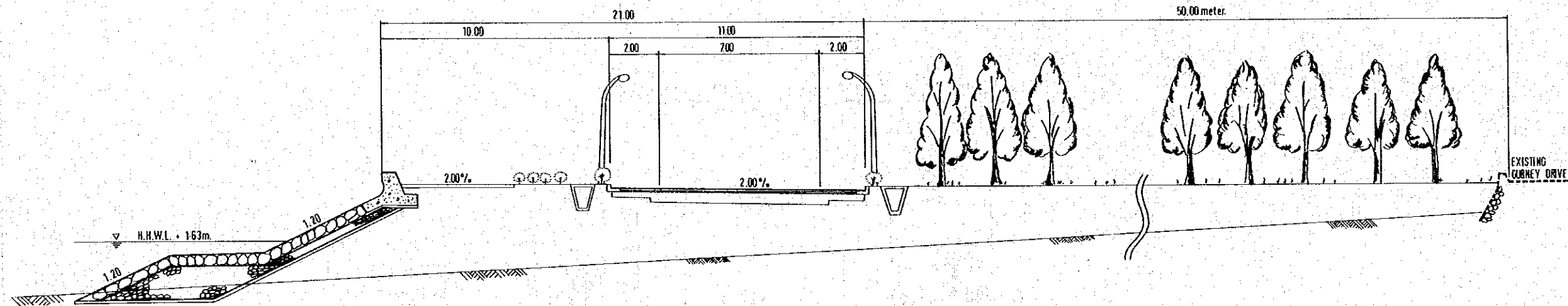


TYPICAL CROSS-SECTION

IMPROVEMENT OF EXISTING GURNEY DRIVE
(2 - LANE)

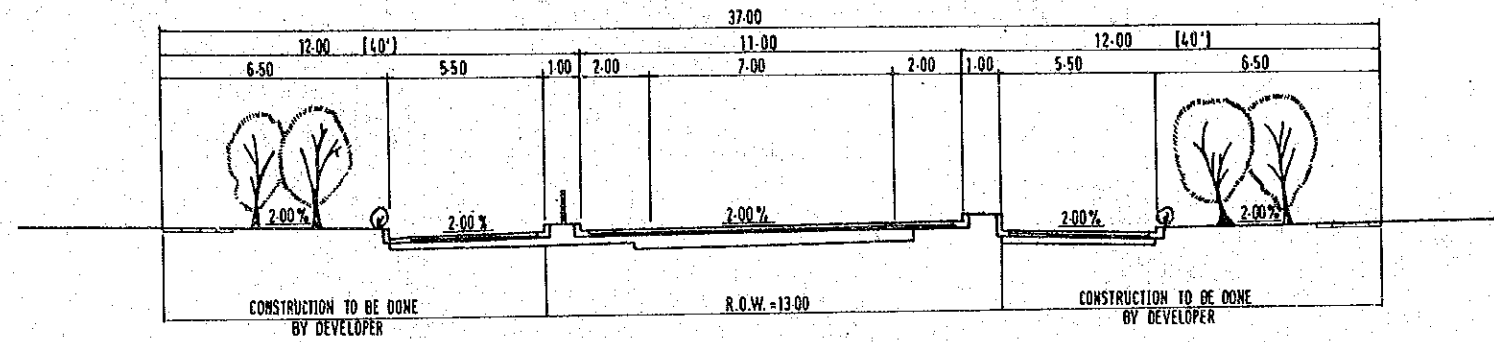


EXTENSION OF GURNEY DRIVE
(2 - LANE)

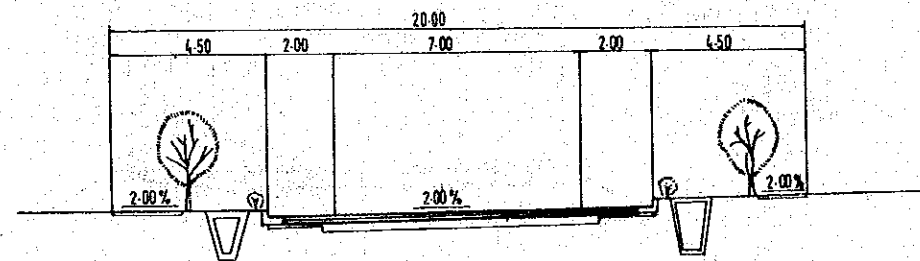


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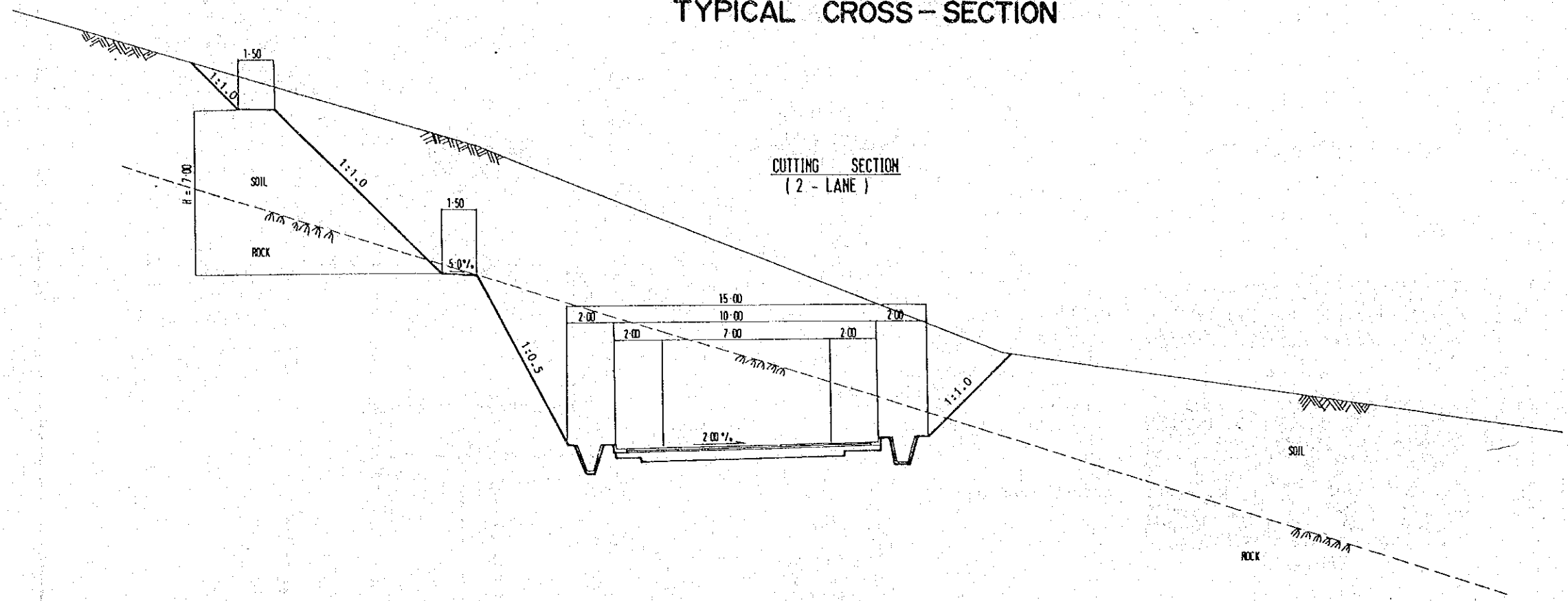
RESIDENTIAL AREAS WITH SERVICE ROADS (2-LANE)



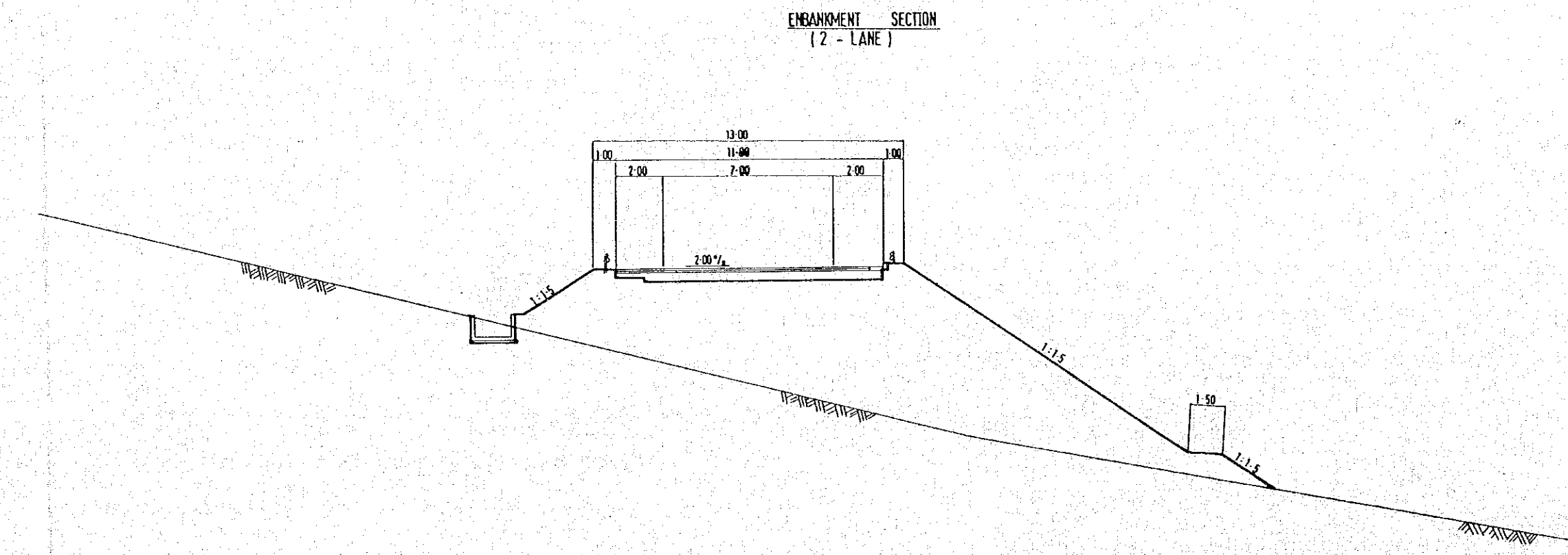
RESIDENTIAL AREAS WITHOUT SERVICE ROADS (2-LANE)



TYPICAL CROSS-SECTION



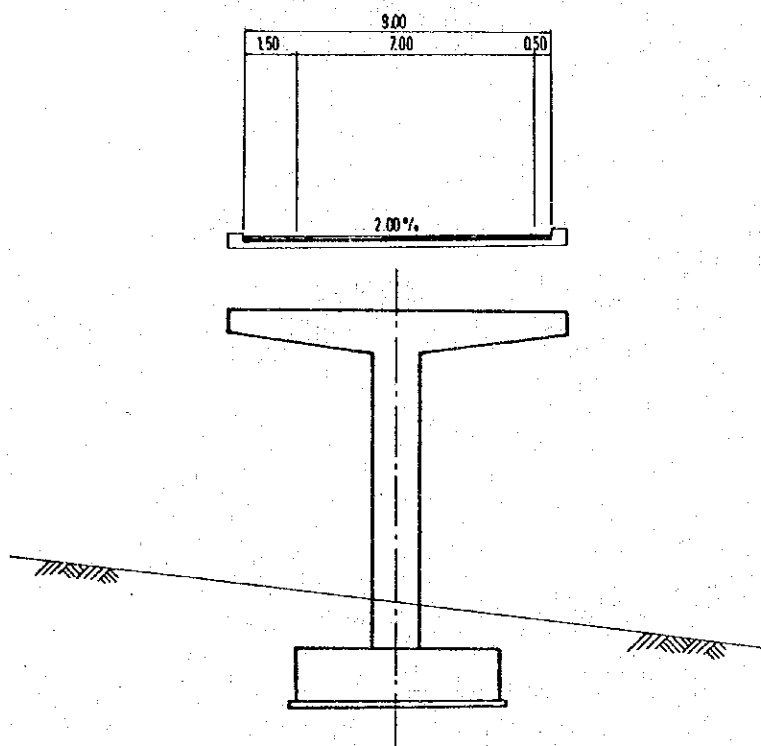
CUTTING SECTION
(2 - LANE)



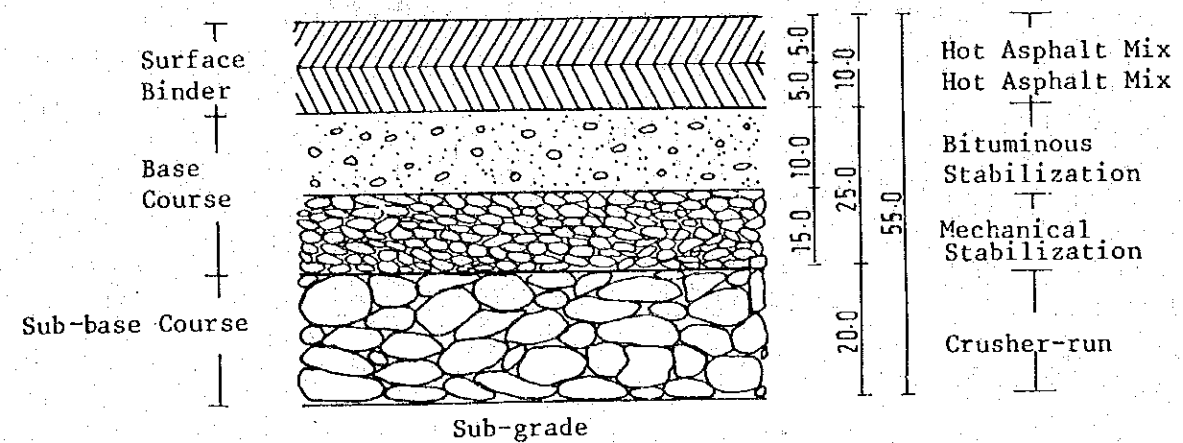
EMBANKMENT SECTION
(2 - LANE)

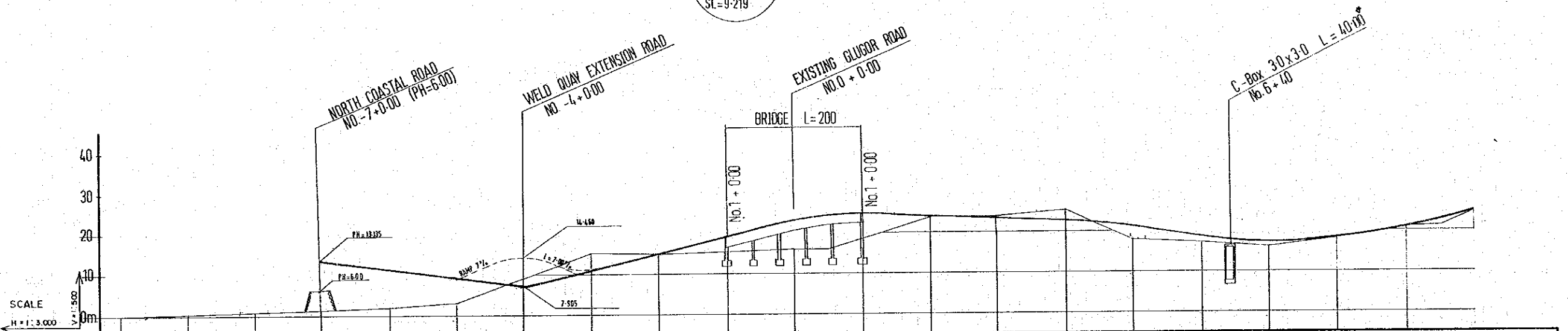
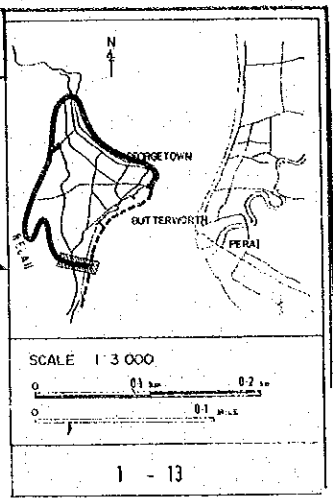
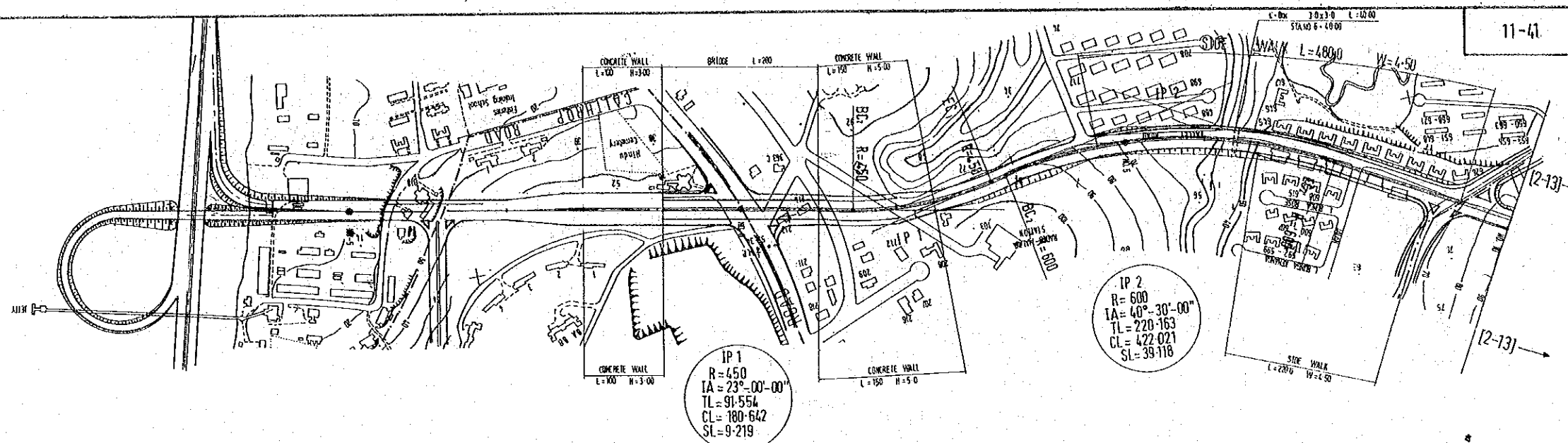
TYPICAL CROSS-SECTION

BRIDGE SECTION
(2-LANE)



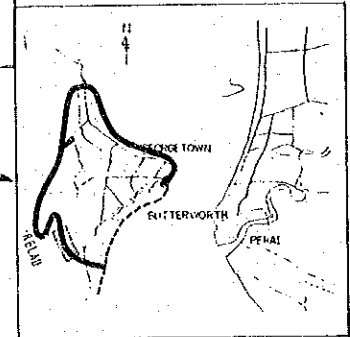
CROSS-SECTION OF PAVEMENT



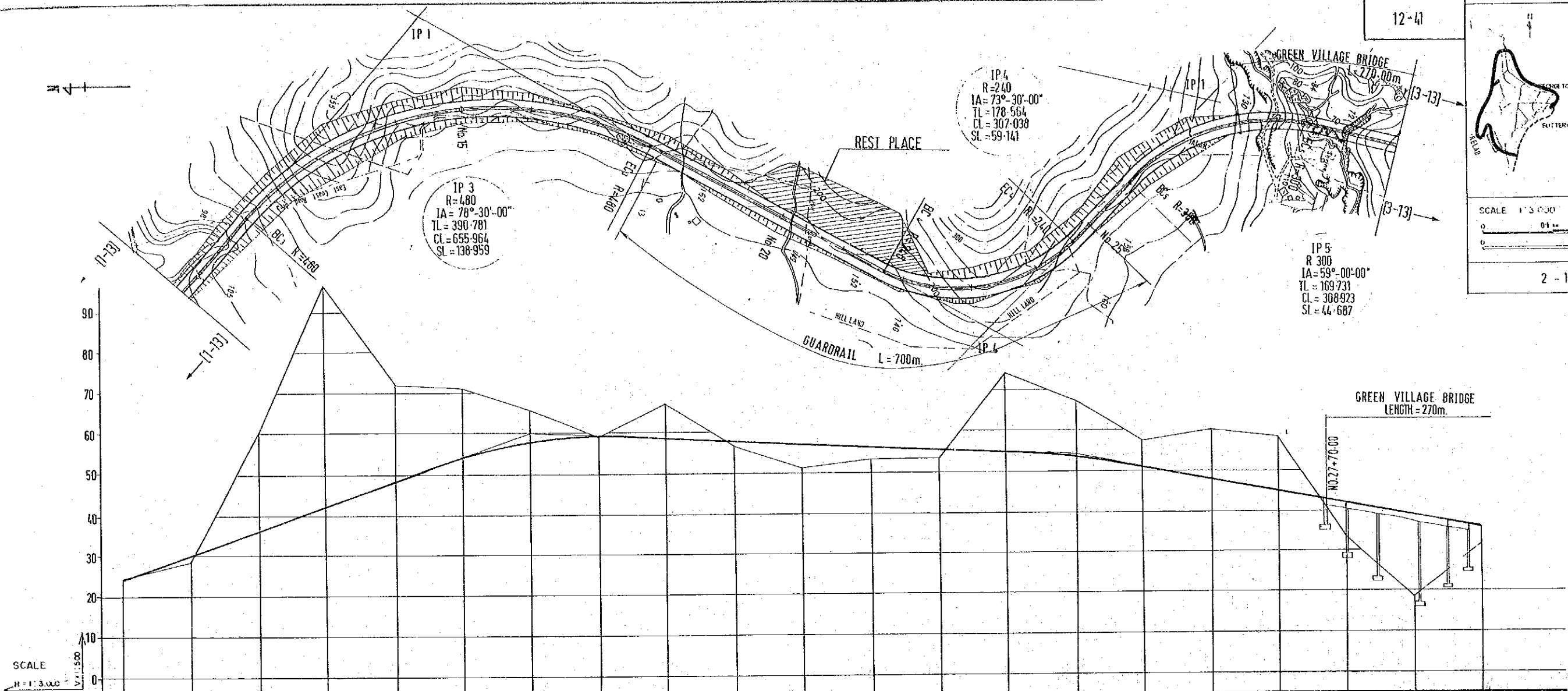


	NO. 8	NO. 7	NO. 6	NO. 5	NO. 4	NO. 3	NO. 2	NO. 1	NO. 0	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
PROPOSED HEIGHT (m)		13.355	11.135	9.135	7.905	11.295	15.455	25.451	25.105	24.517	23.675	22.803	21.090	18.540	17.125	17.994	20.000	24.000	
EMBANKMENT HEIGHT (m)		11.135	8.635	8.135	0.455	0.455	9.461	9.105	0.549	0.325	3.090	1.040	0.929	0.006	0.400	0.600			
CUTTING DEPTH (m)					1.095	3.705													
EXISTING GROUND HEIGHT (m)		2.0	2.5	3.0	9.0	15.0	15.0	16.0	16.0	24.0	24.0	25.5	18.0	17.5	16.2	19.0	20.4	24.6	
ACCUMULATE DISTANCE (m)		700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800	900	1000
DISTANCE (m)		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
STATION		NO. 7	NO. 6	NO. 5	NO. 4	NO. 3	NO. 2	NO. 1	NO. 0	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
CURVE (m)																			

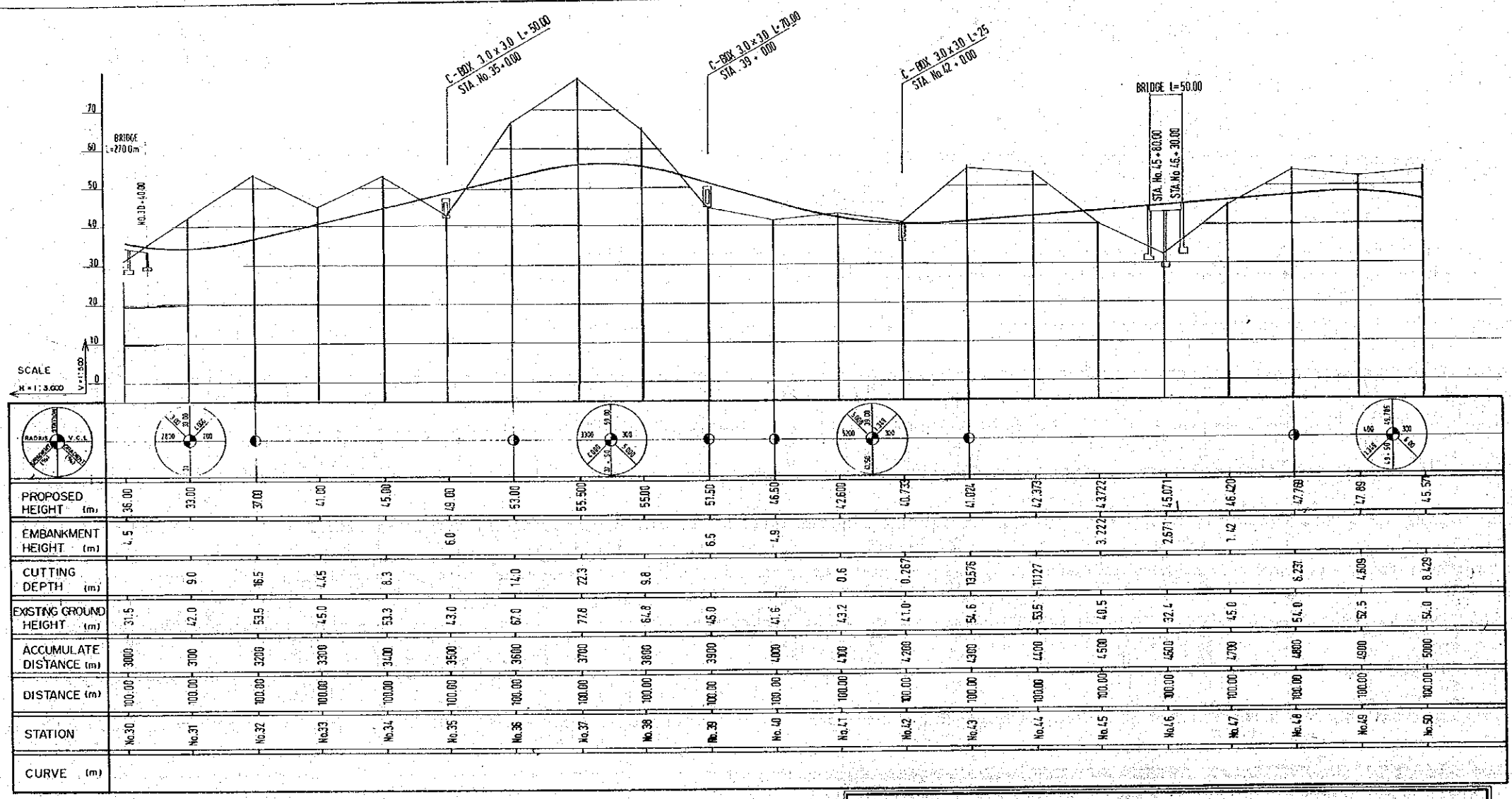
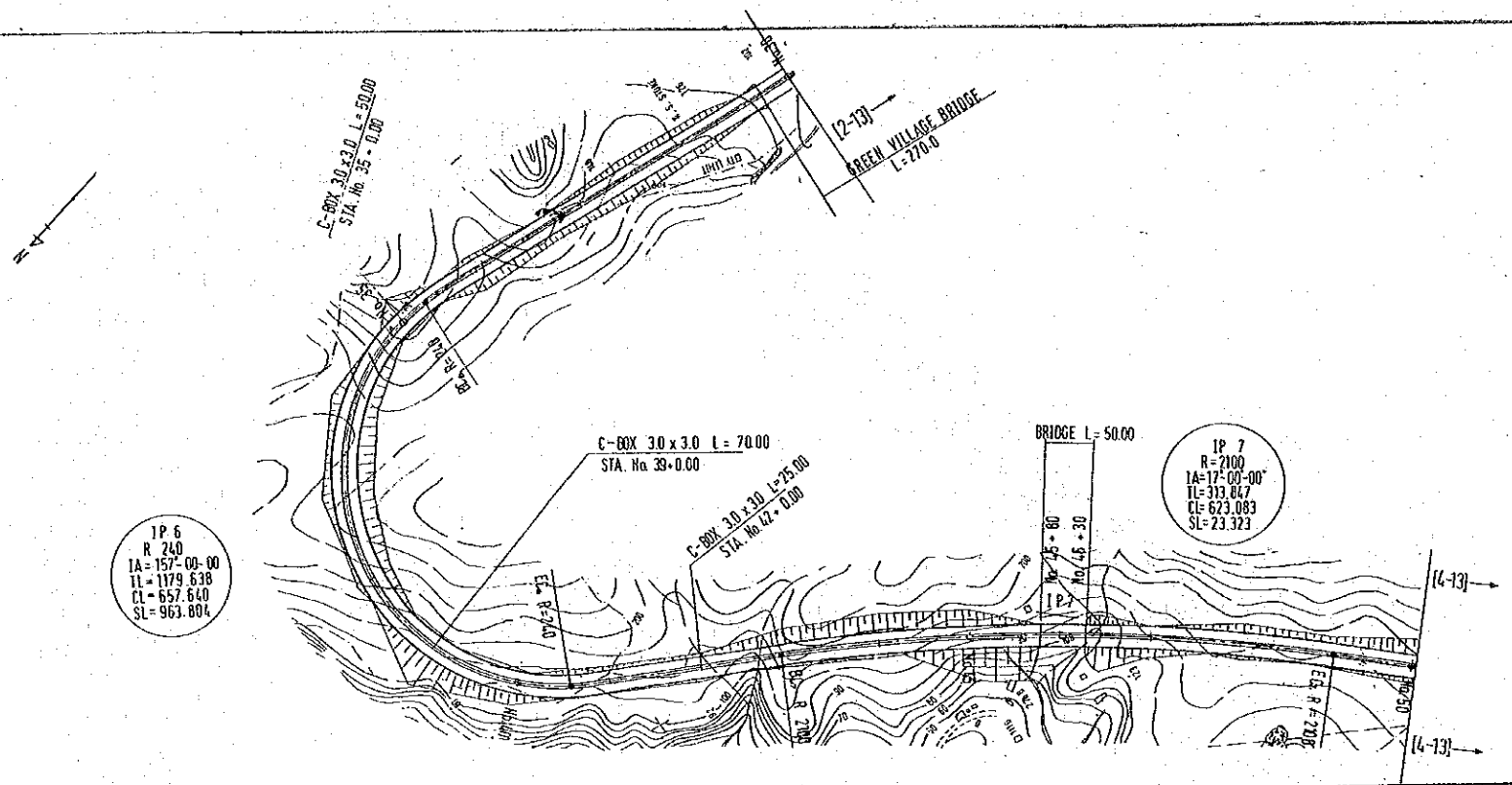
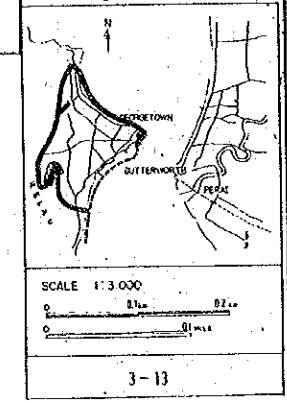
URBAN TRANSPORT STUDY IN GREATER METROPOLITAN AREAS OF GEORGETOWN, BUTTERWORTH, AND BUKIT MERTAJAM.
 JAPAN INTERNATIONAL COOPERATION AGENCY. GOVERNMENT OF MALAYSIA.



SCALE 1:3,000
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 0 0.1 0.2
 2-13



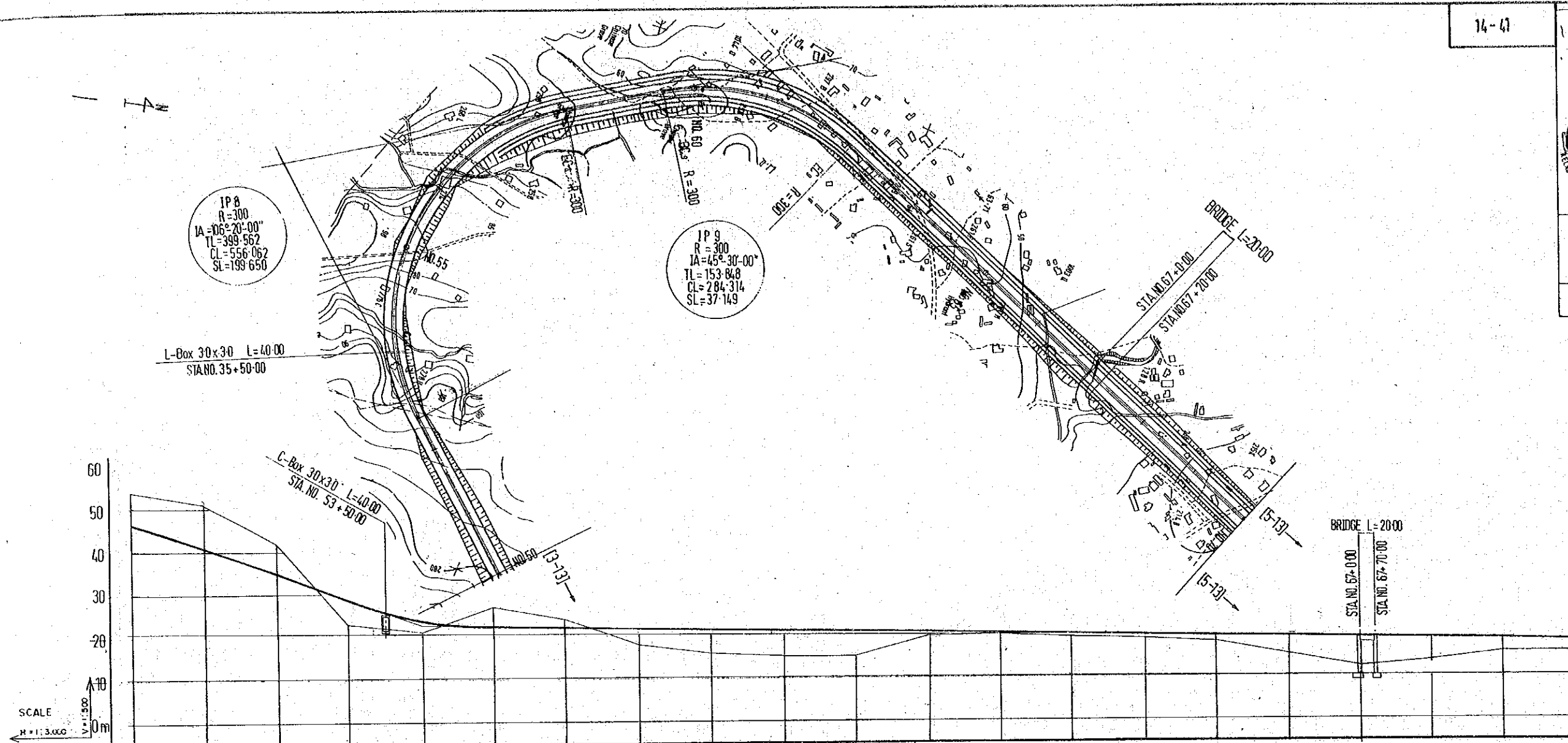
PROPOSED HEIGHT (m)	24.00	30.00	36.00	42.00	48.00	53.79	57.469	58.959	58.50	57.75	57.0	56.25	55.50	54.75	53.439	51.00	48.00	45.00	42.00	39.00	36.00
EMBANKMENT HEIGHT (m)		1.5								0.85	6.0	3.05	2.3						8.0	20.6	4.5
CUTTING DEPTH (m)	0.6		24.00	54.5	24.0	17.281	8.431	0.031	9.0					19.25	14.063	6.5	12.0	13.4			
EXISTING GROUND HEIGHT (m)	24.5	28.5	60.0	96.5	72.0	71.0	65.9	59.0	67.5	56.9	51.0	53.2	53.2	74.0	67.5	57.5	60.0	58.4	34.0	16.4	31.5
ACCUMULATE DISTANCE (m)	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000
DISTANCE (m)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
STATION	No.10	No.11	No.12	No.13	No.14	No.15	No.16	No.17	No.18	No.19	No.20	No.21	No.22	No.23	No.24	No.25	No.26	No.27	No.28	No.29	No.30
CURVE (m)																					



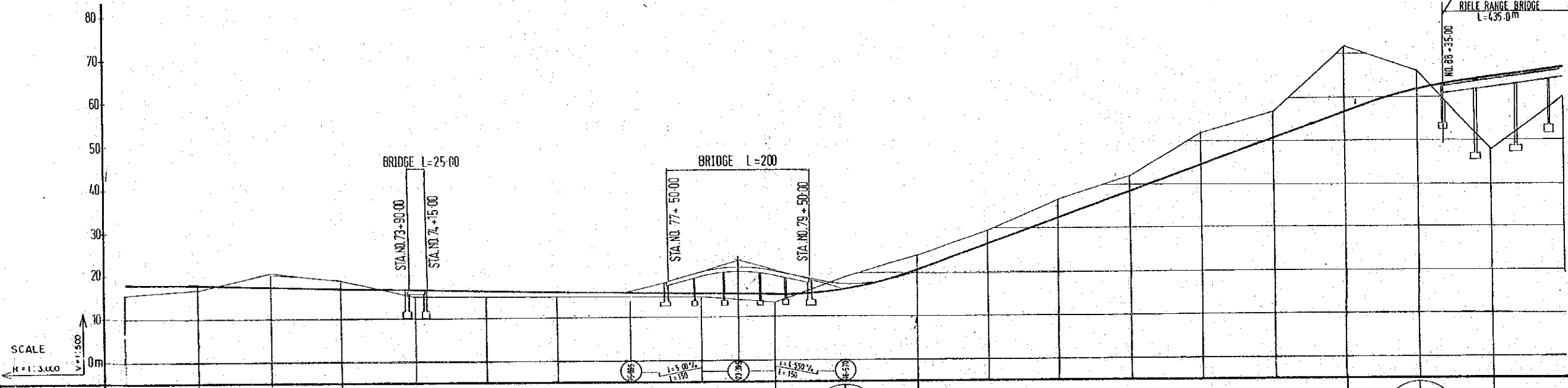
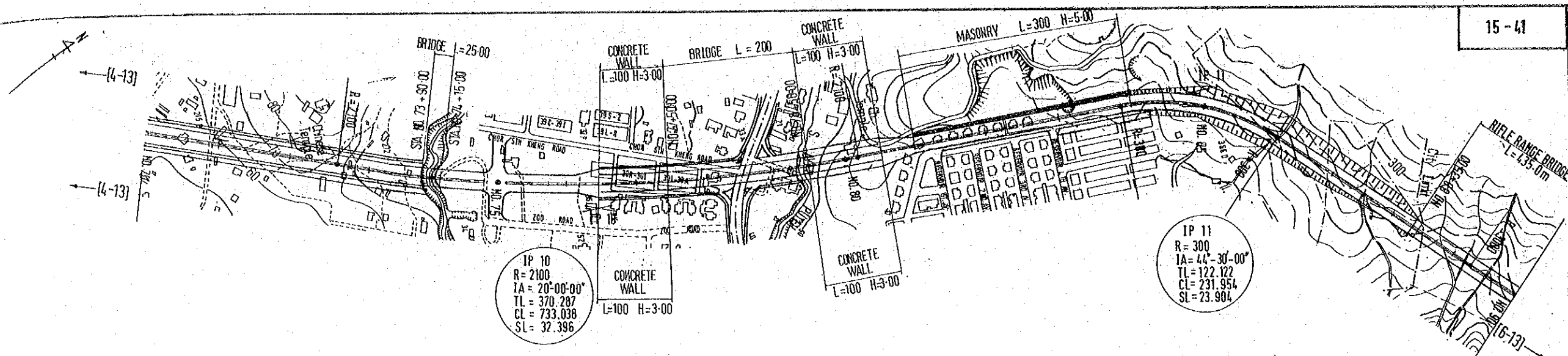
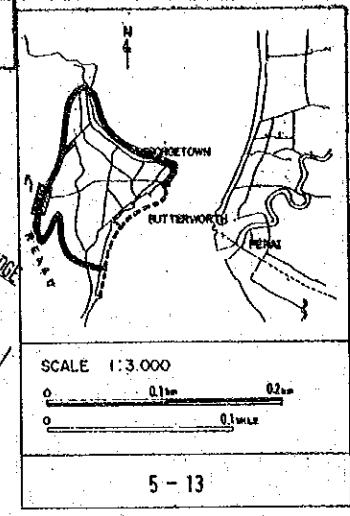
SCALE 1:3,000

0 0.1 mile 0.2 mile

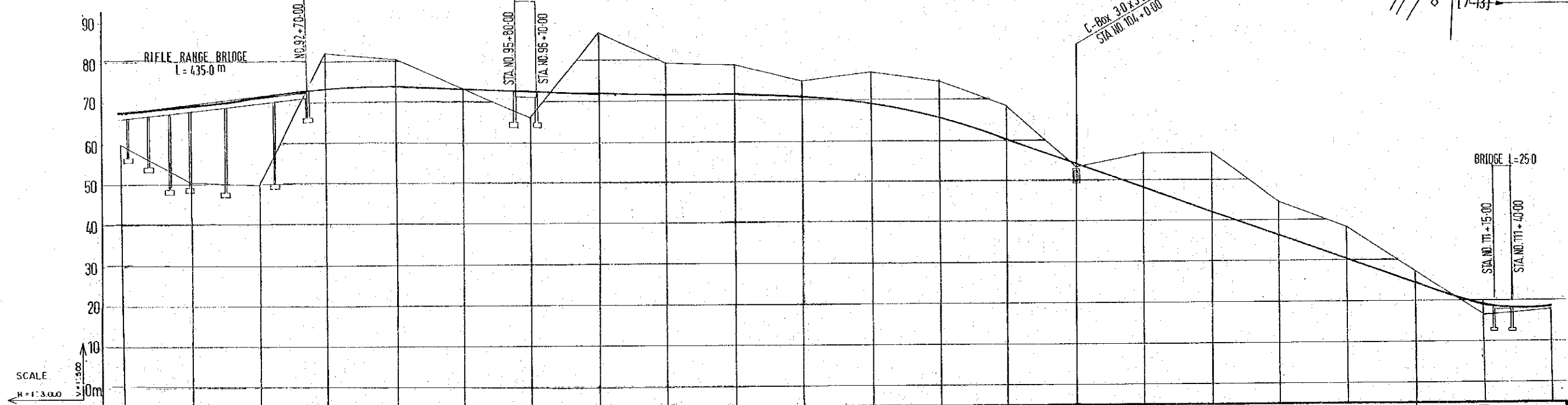
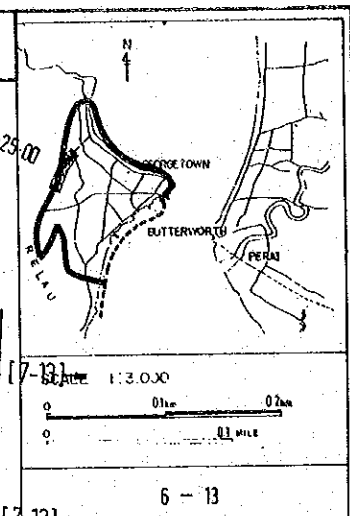
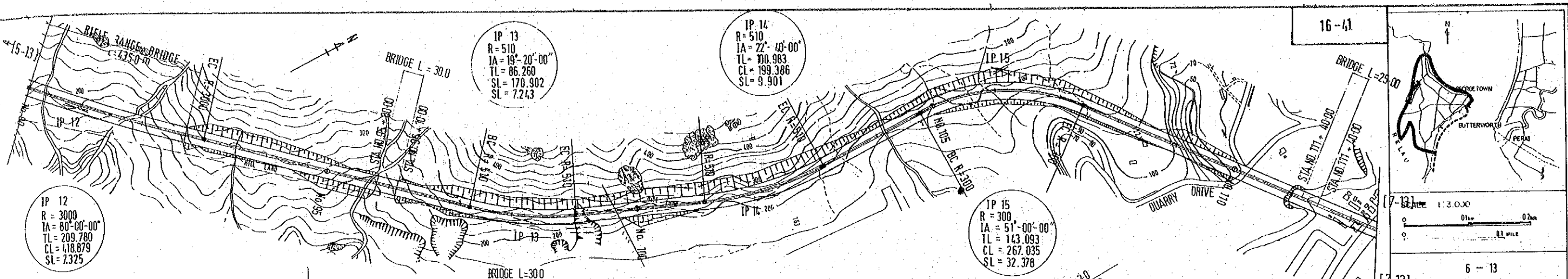
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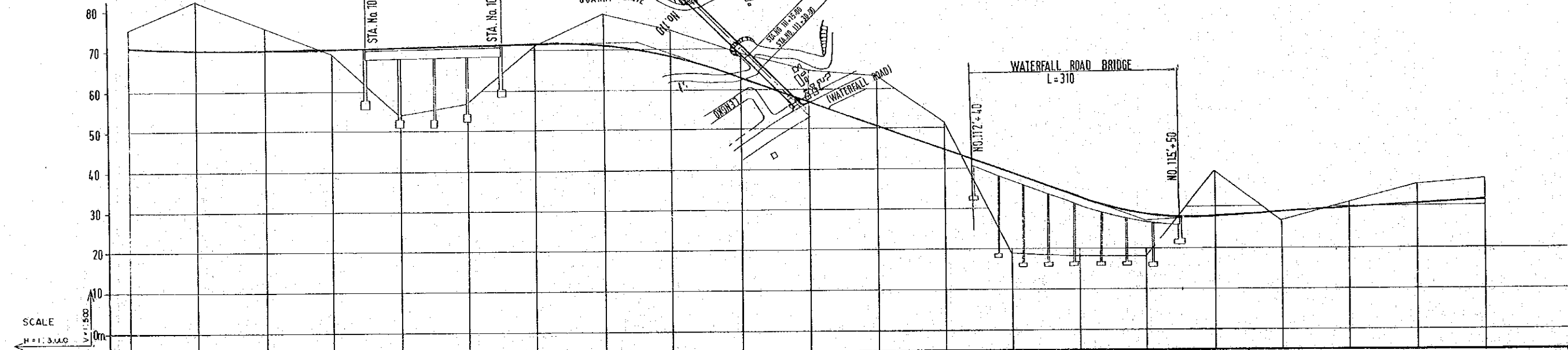
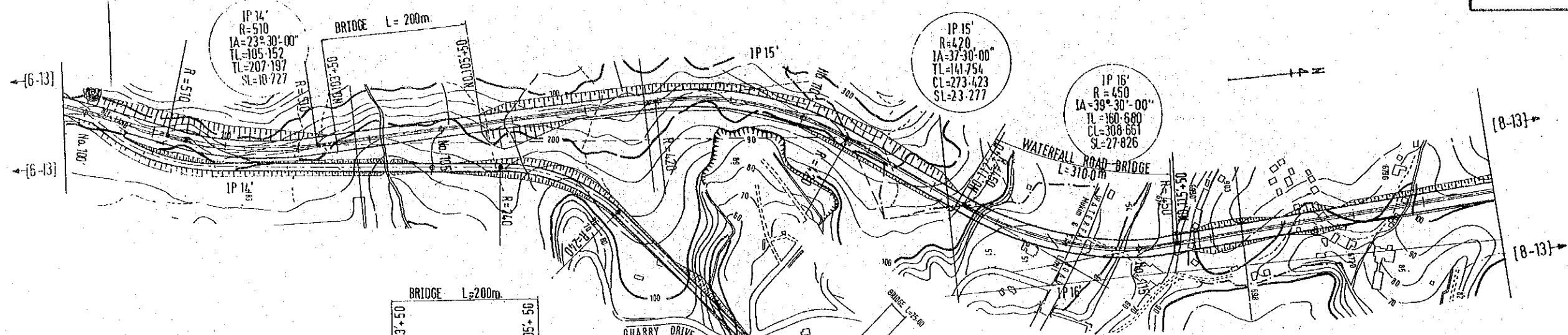
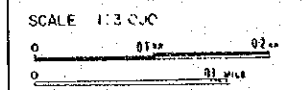
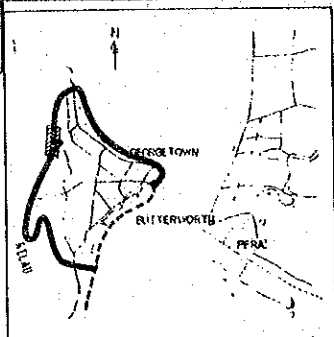
PROPOSED HEIGHT (m)	45.571	40.795	34.795	28.795	24.22	22.495	22.195	21.895	21.595	21.295	20.995	20.695	20.395	20.095	19.795	19.495	19.195	18.895	18.595	18.295	17.995
EMBANKMENT HEIGHT (m)				5.695	3.220			3.695	5.695	5.995	5.295	0.895	0.595	0.895	1.195	1.495	1.795	6.695	5.095	2.995	2.695
CUTTING DEPTH (m)	8.429	10.205	7.205		4.505	1.805															
EXISTING GROUND HEIGHT (m)	54.0	51.0	42.0	23.1	21.0	27.0	24.0	18.0	15.9	15.3	15.0	19.8	19.8	19.2	16.6	18.0	15.0	12.0	13.5	15.3	15.3
ACCUMULATE DISTANCE (m)	500	5100	5200	5300	5400	5500	5600	5700	5800	5900	6000	6100	6200	6300	6400	6500	6600	6700	6800	6900	7000
DISTANCE (m)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
STATION	NO. 50	NO. 51	NO. 52	NO. 53	NO. 54	NO. 55	NO. 56	NO. 57	NO. 58	NO. 59	NO. 60	NO. 61	NO. 62	NO. 63	NO. 64	NO. 65	NO. 66	NO. 67	NO. 68	NO. 69	NO. 70
CURVE (m)																					



STATION	DISTANCE (m)	ACCUMULATE DISTANCE (m)	EXISTING GROUND HEIGHT (m)	CUTTING DEPTH (m)	EMBANKMENT HEIGHT (m)	PROPOSED HEIGHT (m)
NO. 70	100.00	700	15.3		2.895	17.995
NO. 71	100.00	7100	16.6		0.995	17.695
NO. 72	100.00	7200	20.6	3.205		17.395
NO. 73	100.00	7300	18.6	1.705		17.085
NO. 74	100.00	7400	15.0		1.795	16.795
NO. 75	100.00	7500	15.0		1.495	16.495
NO. 76	100.00	7600	15.0		1.195	16.195
NO. 77	100.00	7700	15.0		0.895	15.895
NO. 78	100.00	7800	15.0		0.595	15.595
NO. 79	100.00	7900	13.5		1.795	15.295
NO. 80	100.00	8000	19.5	2.930		16.570
NO. 81	100.00	8100	24.0	3.005		20.995
NO. 82	100.00	8200	30.0	3.005		26.995
NO. 83	100.00	8300	37.0	4.005		32.995
NO. 84	100.00	8400	42.0	3.005		38.995
NO. 85	100.00	8500	52.5	7.505		44.995
NO. 86	100.00	8600	57.0	6.005		50.995
NO. 87	100.00	8700	72.0	15.005		56.995
NO. 88	100.00	8800	66.0	3.005		62.995
NO. 89	100.00	8900	48.0		17.235	55.235
NO. 90	100.00	9000	60.0		7.000	67.475



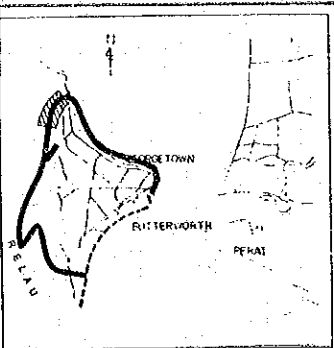
STATION	DISTANCE (m)	ACCUMULATE DISTANCE (m)	EXISTING GROUND HEIGHT (m)	CUTTING DEPTH (m)	EMBANKMENT HEIGHT (m)	PROPOSED HEIGHT (m)
NO.90	100.00	9000	60.0		7.475	67.475
NO.91	100.00	9100	50.8		16.915	69.715
NO.92	100.00	9200	50.2		21.755	71.955
NO.93	100.00	9300	62.5	8.999		73.510
NO.94	100.00	9400	60.8	7.105		73.695
NO.95	100.00	9500	73.3	0.105		73.195
NO.96	100.00	9600	66.2		6.455	72.655
NO.97	100.00	9700	87.1	14.905		72.195
NO.98	100.00	9800	79.6	7.905		71.695
NO.99	100.00	9900	79.4	8.205		71.195
NO.100	100.00	10000	75.0	4.305		70.695
NO.101	100.00	10100	77.4	7.205		70.195
NO.102	100.00	10200	75.0	8.055		66.945
NO.103	100.00	10300	69.0	8.055		60.945
NO.104	100.00	10400	54.0		0.945	54.945
NO.105	100.00	10500	57.0	8.055		48.945
NO.106	100.00	10600	57.0	14.055		42.945
NO.107	100.00	10700	45.0	8.055		36.945
NO.108	100.00	10800	38.6	7.655		30.945
NO.109	100.00	10900	27.0		2.545	24.945
NO.110	100.00	11000	16.5		2.445	18.945
NO.111	100.00	11100	18.00	10.645		18.645



PROPOSED HEIGHT (m)	70.695	70.195	70.12	70.47	70.62	71.17	71.52	71.87	68.780	63.045	57.045	51.045	45.045	39.045	33.045	27.045	28.15	29.185	30.255	31.325	32.395
EMBANKMENT HEIGHT (m)				0.87	16.62	14.17	0.52							19.845	14.845	8.845		2.185			
CUTTING DEPTH (m)	4.305	11.805	4.88					7.13	6.220	6.155	7.755	12.555	6.955				10.885		1.245	4.675	5.105
EXISTING GROUND HEIGHT (m)	75.0	82.0	75.0	69.6	54.0	57.0	71.0	79.0	75.0	69.2	64.8	63.6	52.0	19.2	18.2	18.2	39.0	27.0	31.5	36.0	37.5
ACCUMULATE DISTANCE (m)	10000	10100	10200	10300	10400	10500	10600	10700	10800	10900	11000	11100	11200	11300	11400	11500	11600	11700	11800	11900	12000
DISTANCE (m)	0	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
STATION	No.100 (100)	No.101	No.102	No.103	No.104	No.105	No.106	No.107	No.108	No.109	No.110	No.111	No.112	No.113	No.114	No.115	No.116	No.117	No.118	No.119	No.120
CURVE (m)																					

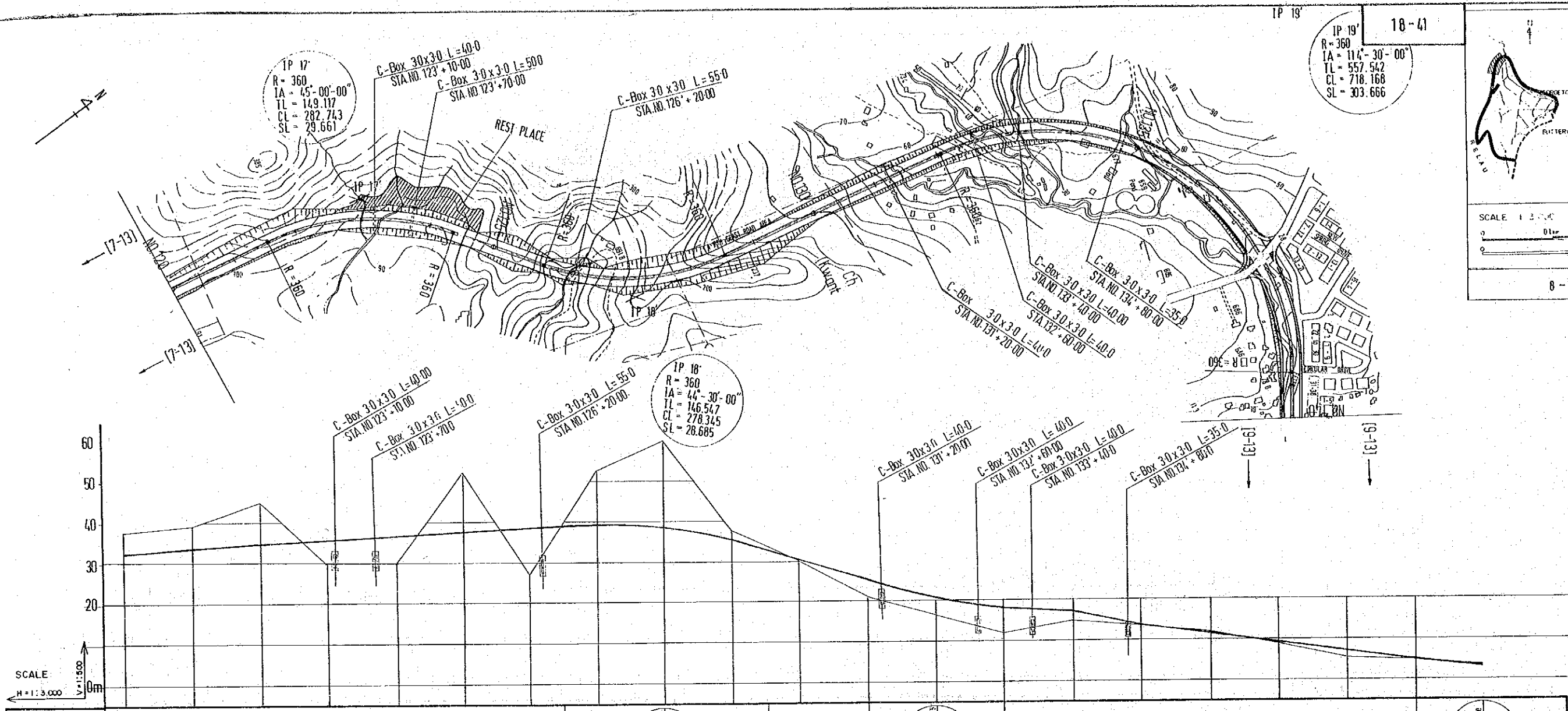
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 IA = 114° 30' 00"
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 CL = 718.168
 SL = 303.666

18-41

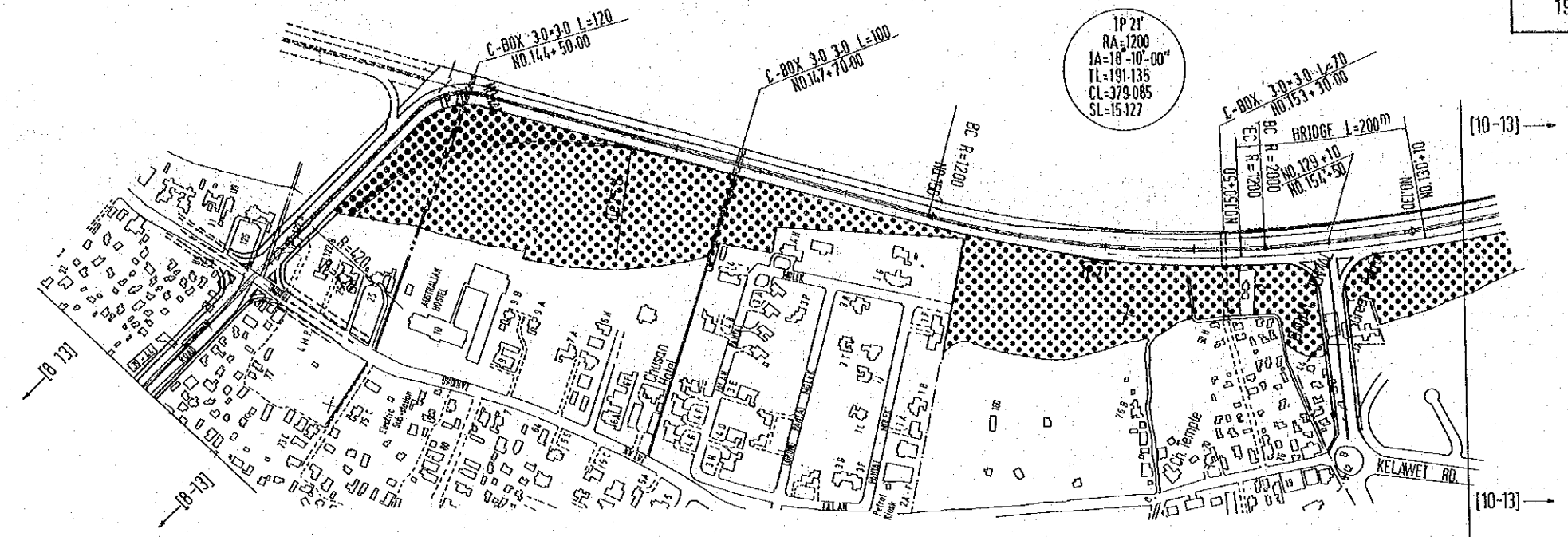
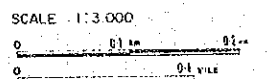
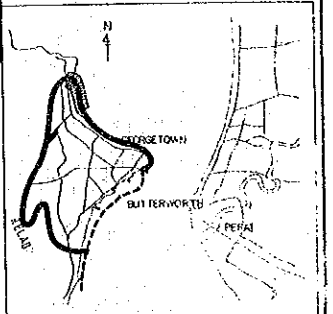


SCALE 1:2,000
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 0 0.1km 0.2km

8-13



PROPOSED HEIGHT (m)	32.395	33.455	34.537	35.605	36.675	37.745	38.815	39.824	38.614	35.494	30.555	25.355	20.919	18.071	17.275	13.723	11.579	9.435	7.291	5.147	3.536	
EMBANKMENT HEIGHT (m)				5.605	6.675		11.815				0.555	4.355	4.419	6.011	2.275	0.223		0.435	4.291	0.147		0.536
CUTTING DEPTH (m)	5.105	5.535	10.455			14.755		12.876	21.396	2.006							0.421					
EXISTING GROUND HEIGHT (m)	37.5	39.0	45.0	30.0	30.0	52.5	27.0	52.5	60.0	37.5	30.0	21.0	16.5	12.0	15.0	13.5	12.0	9.0	5.5	5.0	3.0	
ACCUMULATE DISTANCE (m)	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	
DISTANCE (m)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
STATION	NO.120	NO.121	NO.122	NO.123	NO.124	NO.125	NO.126	NO.127	NO.128	NO.129	NO.130	NO.131	NO.132	NO.133	NO.134	NO.135	NO.136	NO.137	NO.138	NO.139	NO.140	
CURVE (m)																						

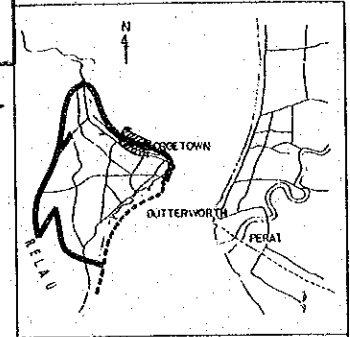
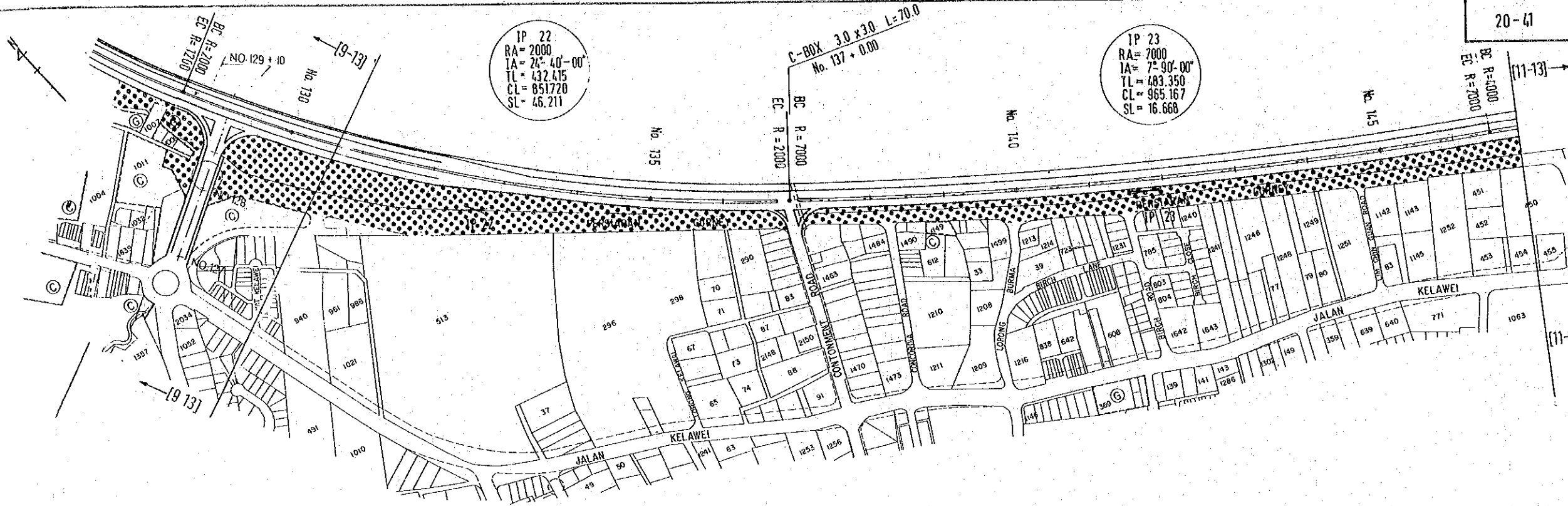


1P 21'
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IA=18-10'-00"
TL=191.135
CL=379.085
SL=15.127

SCALE
H=1:3,000
V=1:500

	NO. 140	NO. 141	NO. 142	NO. 143	NO. 144	NO. 145	NO. 146	NO. 147	NO. 148	NO. 149	NO. 150	NO. 151	NO. 152	NO. 153	NO. 154	NO. 154+50	NO. 154+100	NO. 154+150	NO. 154+200	NO. 154+250	NO. 154+300	NO. 154+350	NO. 154+400	NO. 154+450	NO. 154+500
PROPOSED HEIGHT (m)	3.535	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
EMBANKMENT HEIGHT (m)	0.535	0.00	0.00	1.00	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.500	3.500	3.500	3.500	8.833	9.500	8.833	8.833	5.500	3.500	3.000	3.000	3.000	3.000
CUTTING DEPTH (m)		0.00	0.00																						
EXISTING GROUND HEIGHT (m)	3.0	3.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50
ACCUMULATE DISTANCE (m)	74000	74100	74200	74300	74400	74500	74600	74700	74800	74900	75000	75100	75200	75300	75400	75450	75500	75550	75600	75650	75700	75750	75800	75850	75900
DISTANCE (m)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	50.00	50.00	50.00	50.00	100.00	100.00	100.00	100.00	100.00	100.00
STATION	NO. 140	NO. 141	NO. 142	NO. 143	NO. 144	NO. 145	NO. 146	NO. 147	NO. 148	NO. 149	NO. 150	NO. 151	NO. 152	NO. 153	NO. 154	NO. 154+50	NO. 154+100	NO. 154+150	NO. 154+200	NO. 154+250	NO. 154+300	NO. 154+350	NO. 154+400	NO. 154+450	NO. 154+500
CURVE (m)																									

URBAN TRANSPORT STUDY IN GREATER METROPOLITAN AREAS OF GEORGETOWN, BUTTERWORTH AND BUKIT MERTAJAM
 JAPAN INTERNATIONAL COOPERATION AGENCY. GOVERNMENT OF MALAYSIA

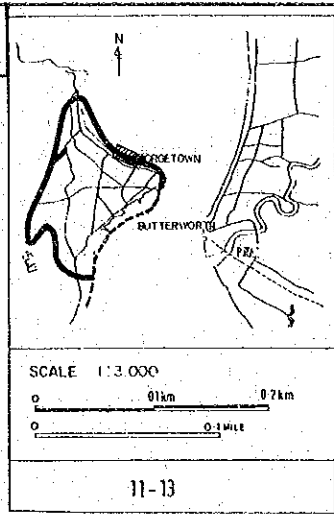
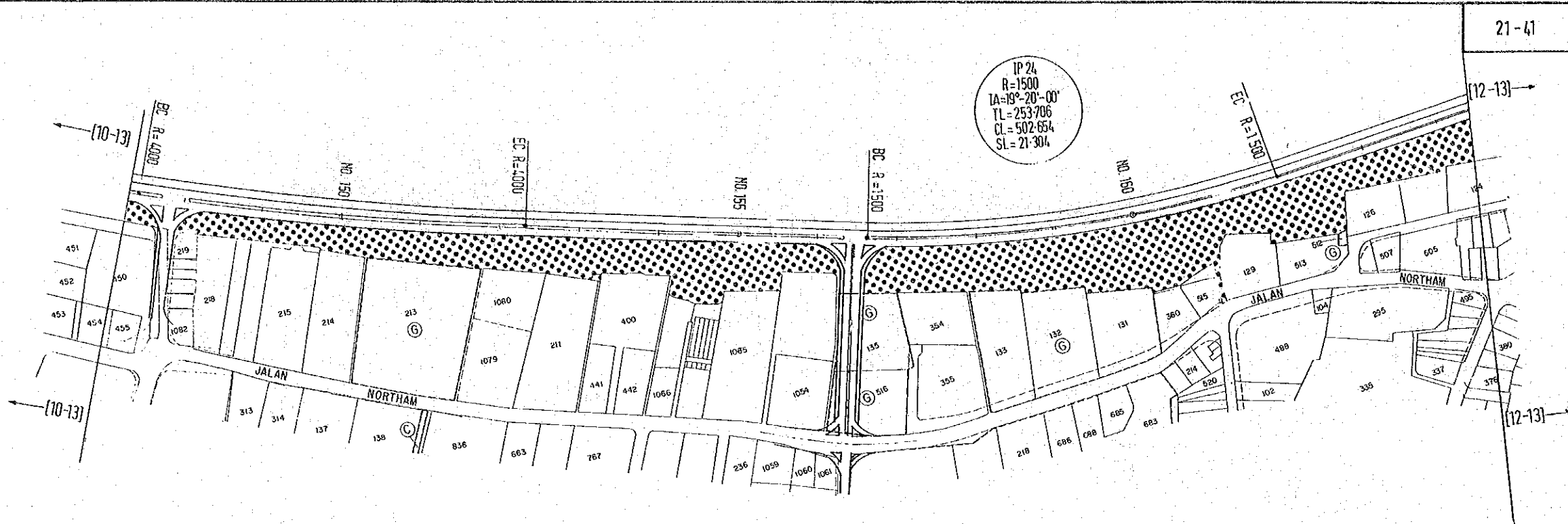


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10-13

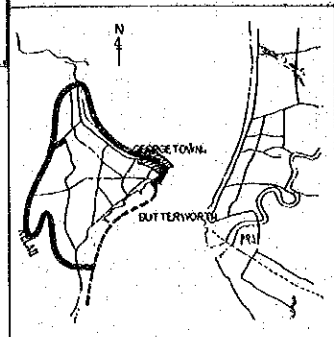
	0m																				
PROPOSED HEIGHT (m)		3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
EMBANKMENT HEIGHT (m)		4.000	4.000	4.000	4.000	4.150	4.300	4.200	4.100	4.100	4.100	4.100	4.100	4.100	4.100	4.100	4.500	5.000	5.000		
CUTTING DEPTH (m)																					
EXISTING GROUND HEIGHT (m)		-1.00	-1.00	-1.00	-1.00	-1.15	-1.30	-1.20	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.10	-1.50	-2.00	-2.00		
ACCUMULATE DISTANCE (m)		155.40	156.40	157.40	158.40	159.40	160.40	161.40	162.40	163.40	164.40	165.40	166.40	167.40	168.40	169.40	170.40	171.40	172.40	173.40	
DISTANCE (m)		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
STATION		NO.130	NO.131	NO.132	NO.133	NO.134	NO.135	NO.136	NO.137	NO.138	NO.139	NO.140	NO.141	NO.142	NO.143	NO.144	NO.145	NO.146	NO.147	NO.148	
CURVE (m)																					

URBAN TRANSPORT STUDY IN GREATER METROPOLITAN AREAS OF GEORGETOWN, BUTTERWORTH AND BUKIT MERTAJAM.
 JAPAN INTERNATIONAL COOPERATION AGENCY. GOVERNMENT OF MALAYSIA.

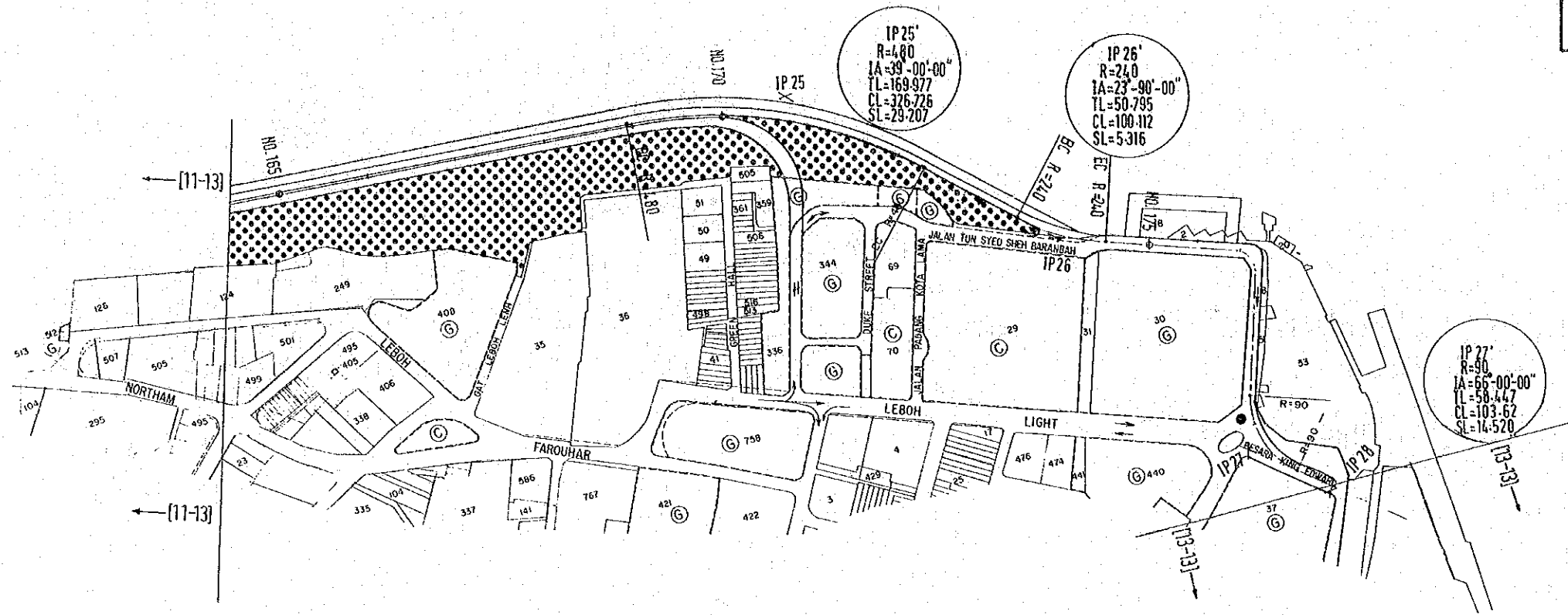


	SCALE H = 1:3,000 V = 1:500																				
PROPOSED HEIGHT (m)	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	
EMBANKMENT HEIGHT (m)	4.500	5.000	5.000	4.600	4.800	5.000	5.350	5.700	5.700	5.700	5.800	5.900	5.950	6.000	6.000	6.000	6.500	7.000	7.000	7.000	
CUTTING DEPTH (m)																					
EXISTING GROUND HEIGHT (m)	-1.50	-2.00	-2.00	-1.60	-1.80	-2.00	-2.35	-2.70	-2.70	-2.70	-2.80	-2.90	-2.95	-3.00	-3.00	-3.50	-3.50	-4.00	-4.00	-4.00	
ACCUMULATE DISTANCE (m)	71.40	174.40	174.40	174.40	174.40	174.40	177.40	178.40	178.40	178.40	181.40	182.40	183.40	184.40	185.40	185.40	186.40	186.40	189.40	189.40	
DISTANCE (m)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
STATION	NO.146	NO.147	NO.148	NO.149	NO.150	NO.151	NO.152	NO.153	NO.154	NO.155	NO.156	NO.157	NO.158	NO.159	NO.160	NO.161	NO.162	NO.163	NO.164	NO.165	
CURVE (m)																					

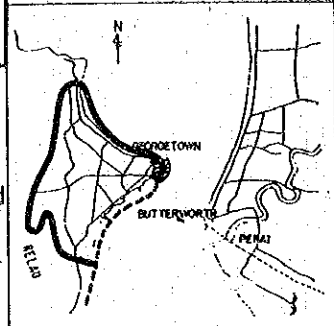
URBAN TRANSPORT STUDY IN GREATER METROPOLITAN AREAS OF GEORGETOWN, BUTTERWORTH AND BUKIT MERTAJAM.
 JAPAN INTERNATIONAL COOPERATION AGENCY. GOVERNMENT OF MALAYSIA.



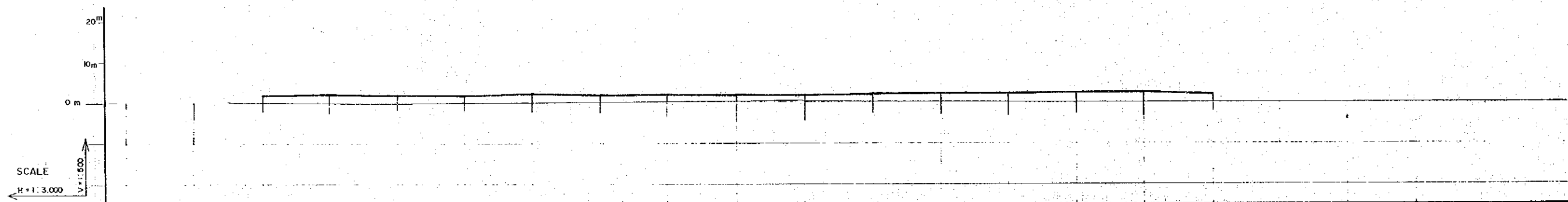
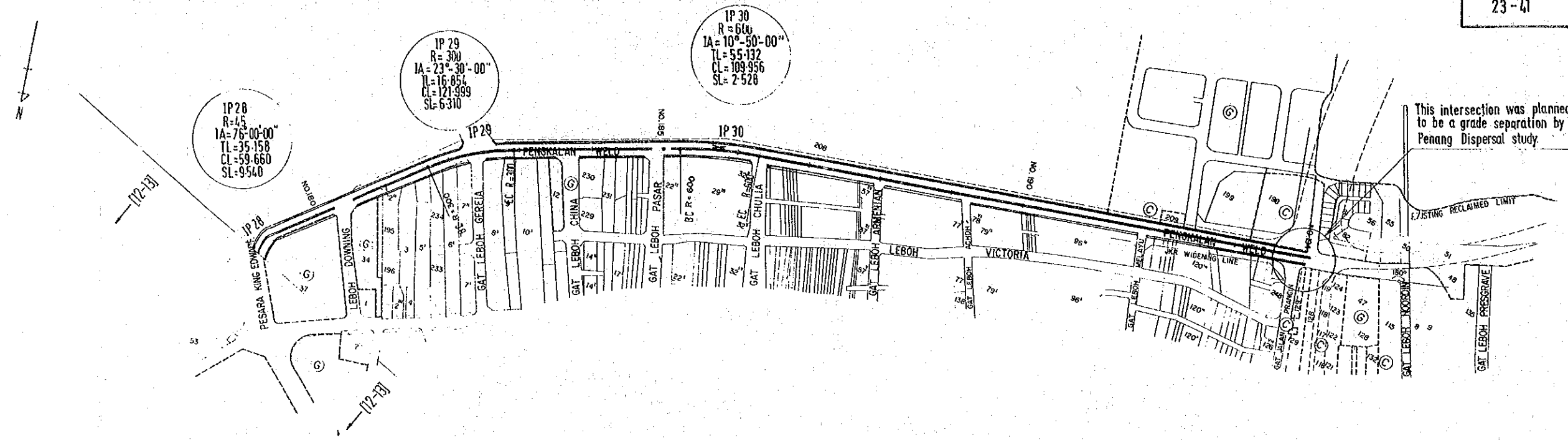
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PROPOSED HEIGHT (m)	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	2.834	2.666	2.502	2.336	2.17	2.000		
EMBANKMENT HEIGHT (m)	7.000	7.000	7.000	7.000	6.800	6.600	5.600	4.400	3.850	3.500	3.900	0.134	0.066	0.002	0.036	0.07	0.000			
CUTTING DEPTH (m)																				
EXISTING GROUND HEIGHT (m)	-4.00	-4.00	-4.00	-4.00	-3.80	-3.60	-2.90	-1.90	-0.95	-0.50	-0.50	-2.70	-2.60	-2.50	-2.30	-2.10	-2.00			
ACCUMULATE DISTANCE (m)	0.00	15.40	30.80	46.20	61.60	77.00	92.40	107.80	123.20	138.60	154.00	169.40	184.80	200.20	215.60	231.00	246.40	261.80	277.20	292.60
DISTANCE (m)	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
STATION	NO.164	NO.165	NO.166	NO.167	NO.168	NO.169	NO.170	NO.171	NO.172	NO.173	NO.174	NO.175	NO.176	NO.177	NO.178	NO.179	NO.180			
CURVE (m)																				

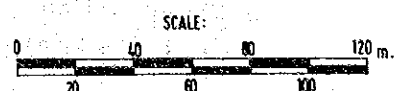


SCALE 1:3,000
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 0 0.1MILE 0.2MILE



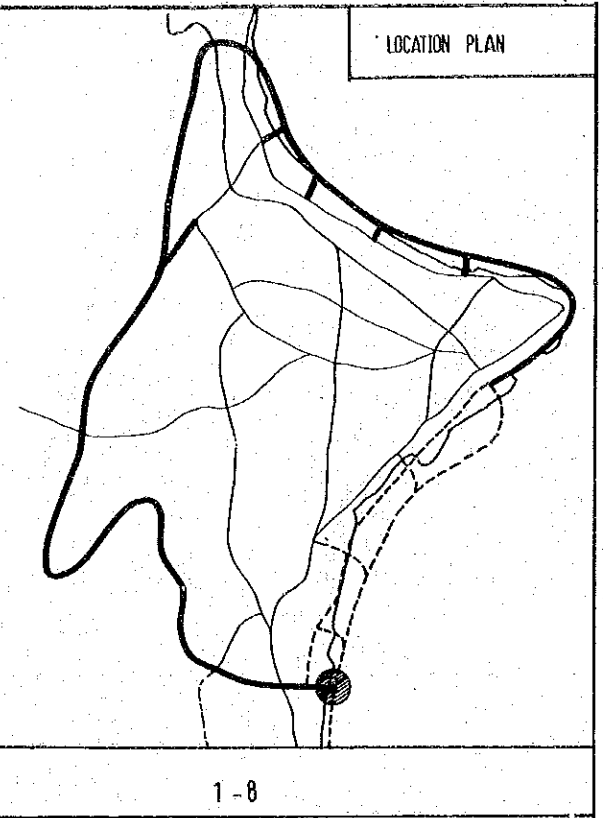
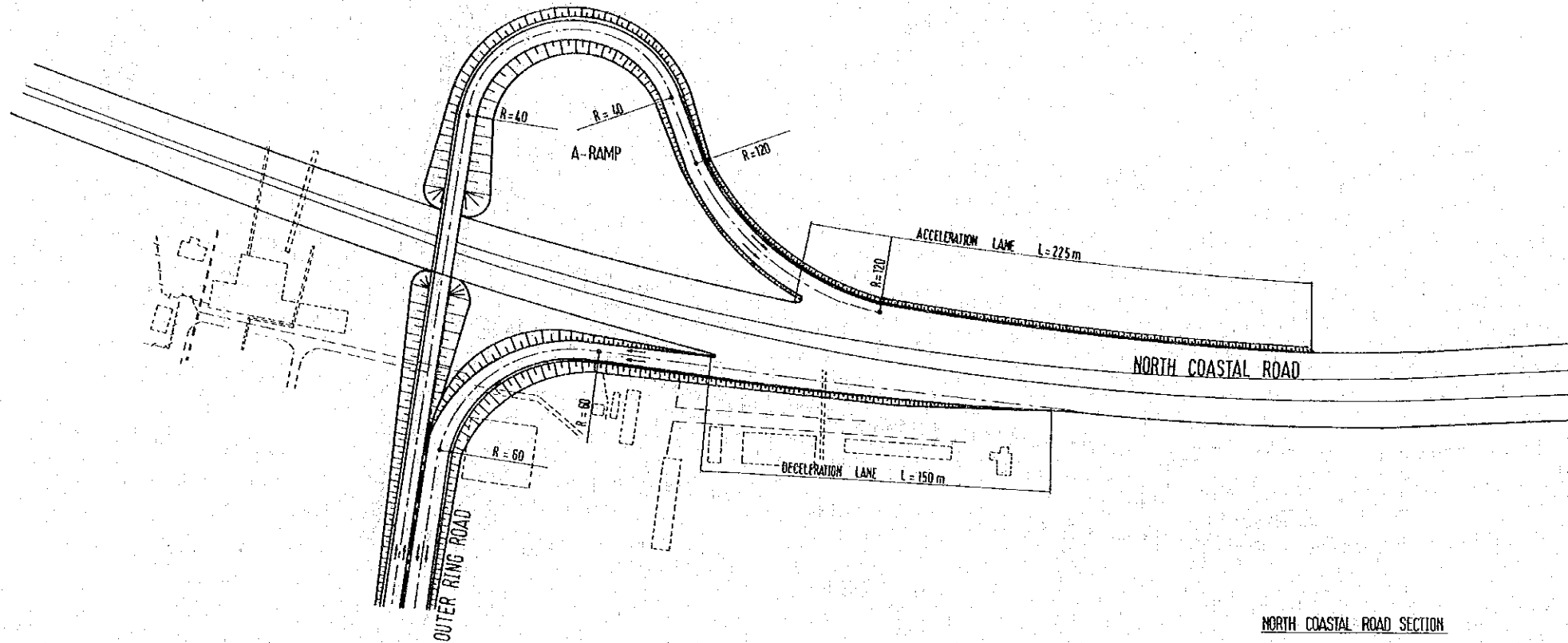
	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00
PROPOSED HEIGHT (m)	2.021	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.015	2.000	2.000	2.000	2.363	2.400	2.000
EMBANKMENT HEIGHT (m)	0.021	0.03	0.07				0.07	0.05	0.043				0.013	0.24	0.03
CUTTING DEPTH (m)					0.07						0.1	0.23	0.29		
EXISTING GROUND HEIGHT (m)	2.0	1.97	1.93	2.0	2.07	2.0	1.93	1.95	1.97	2.1	2.23	2.29	2.35	2.16	1.97
ACCUMULATE DISTANCE (m)	20+540	20+640	20+740	20+840	20+940	21+040	21+140	21+240	21+340	21+440	21+540	21+640	21+740	21+840	21+940
DISTANCE (m)	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00	100+00
STATION	NO.180	NO.181	NO.182	NO.183	NO.184	NO.185	NO.186	NO.187	NO.188	NO.189	NO.190	NO.191	NO.192	NO.193	NO.194
CURVE (m)															

GLUGOR INTERCHANGE PLAN
(ALTERNATIVE A)



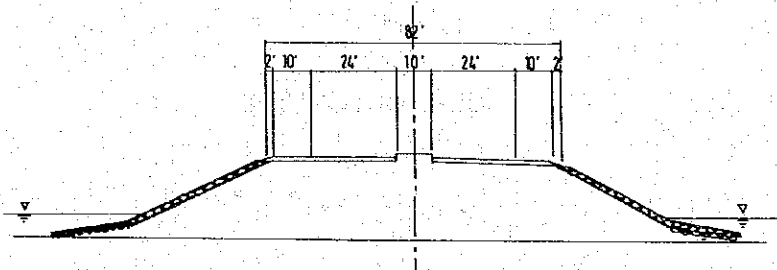
24-41

LOCATION PLAN

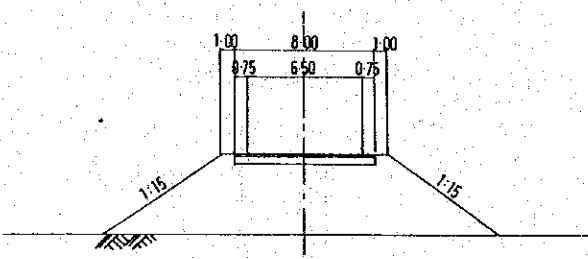


1-8

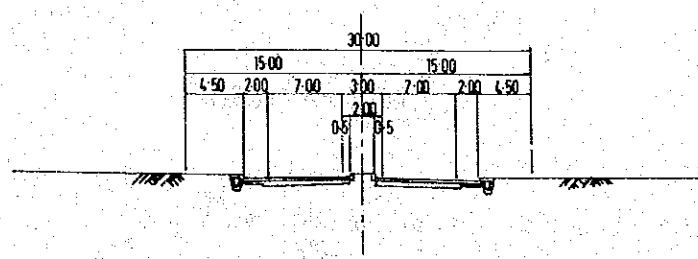
NORTH COASTAL ROAD SECTION



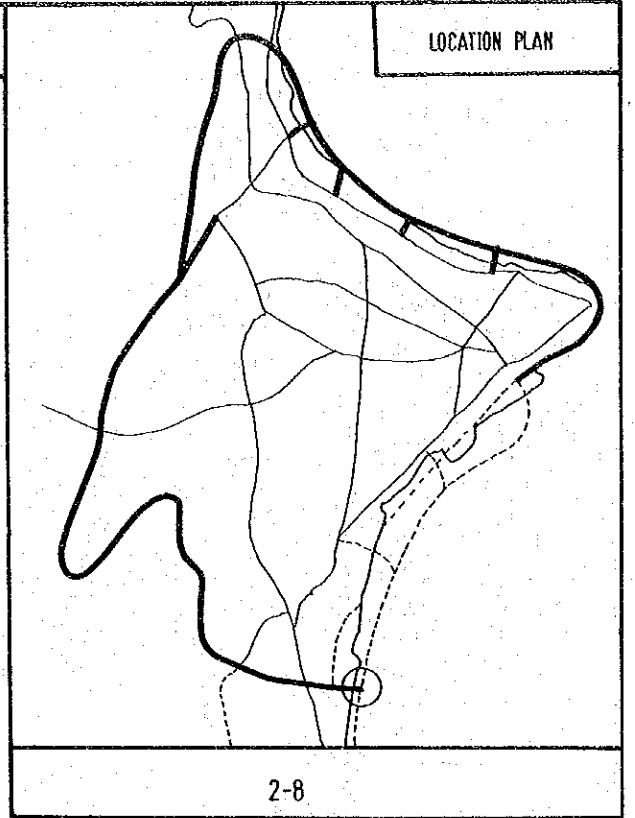
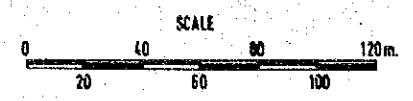
RAMP - SECTION



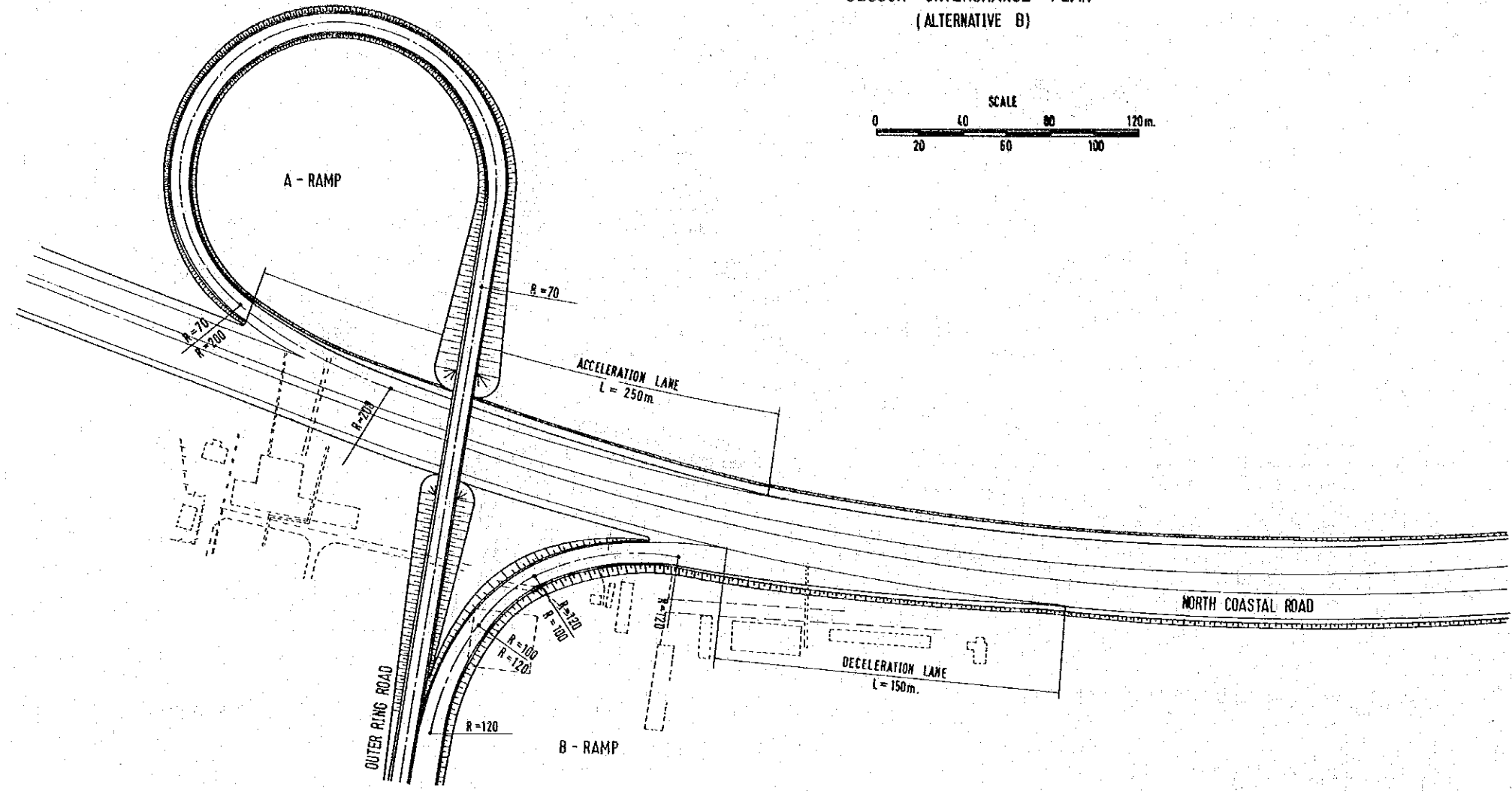
OUTER RING ROAD SECTION



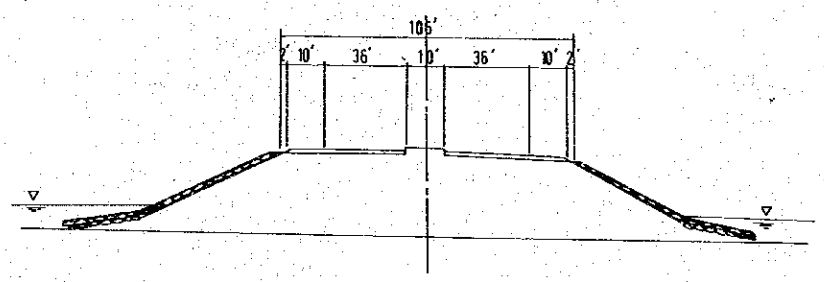
GLUGOR INTERCHANGE PLAN (ALTERNATIVE B)



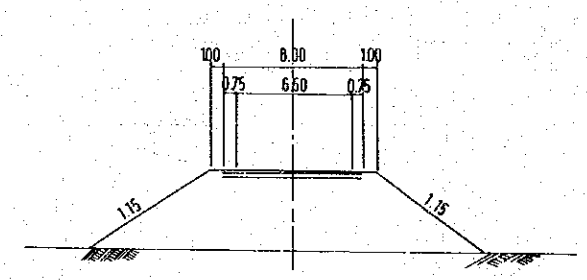
2-8



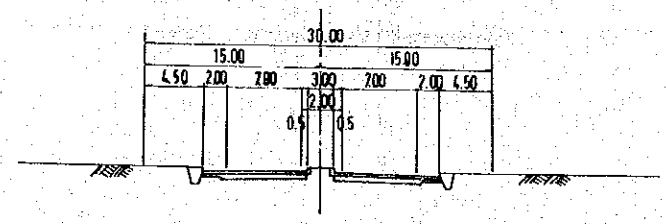
NORTH COASTAL ROAD SECTION



RAMP SECTION

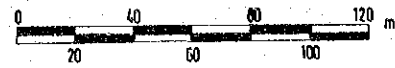


OUTER RING ROAD SECTION



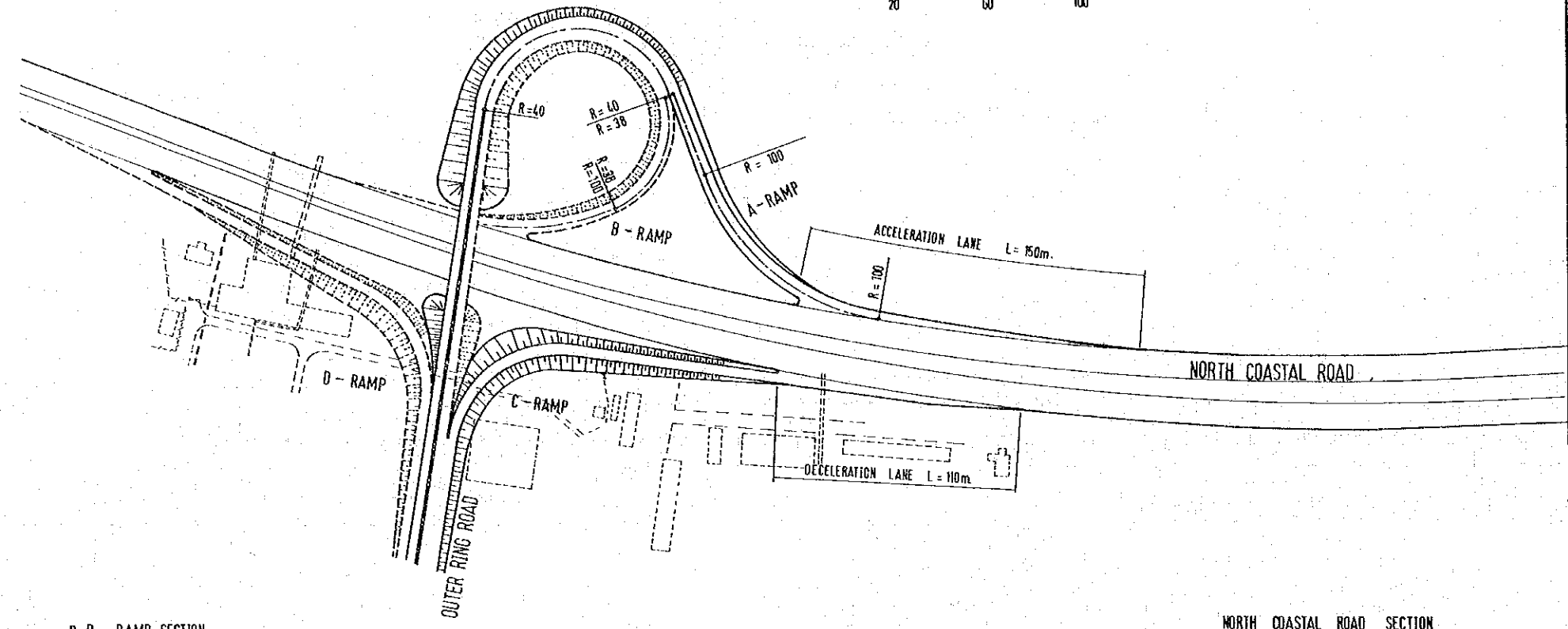
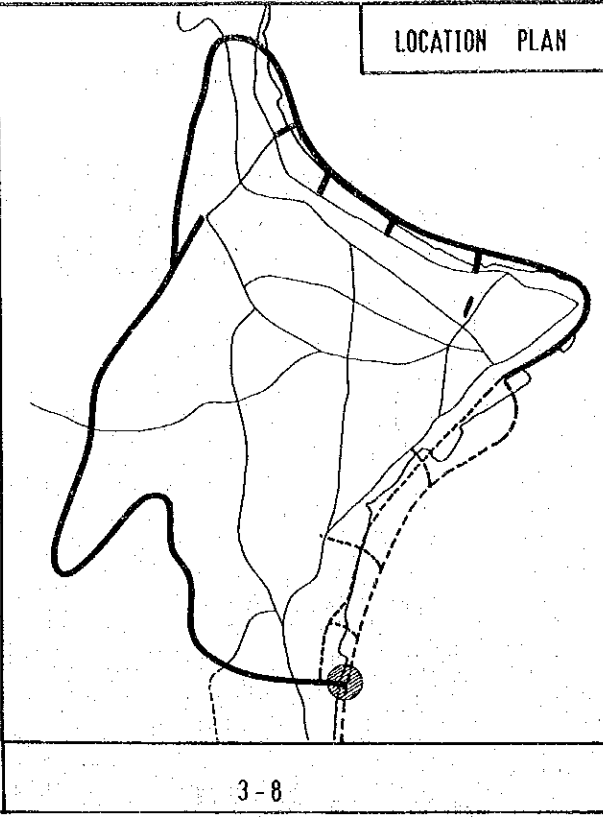
GLUGOR INTERCHANGE PLAN
(ALTERNATIVE C)

SCALE

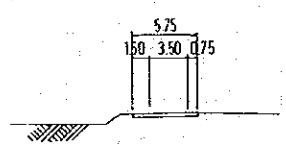


26-41

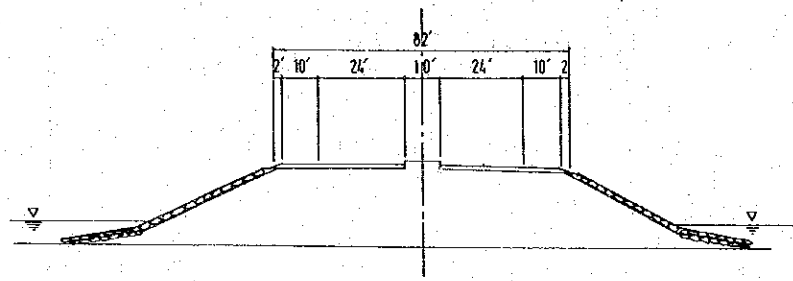
LOCATION PLAN



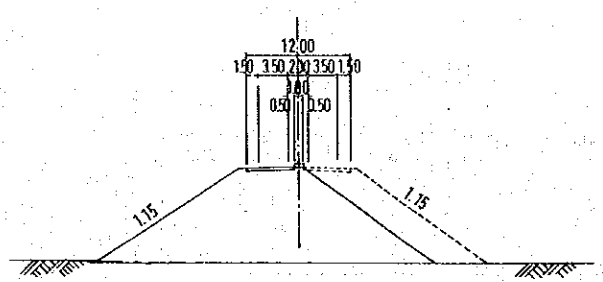
B, D - RAMP SECTION



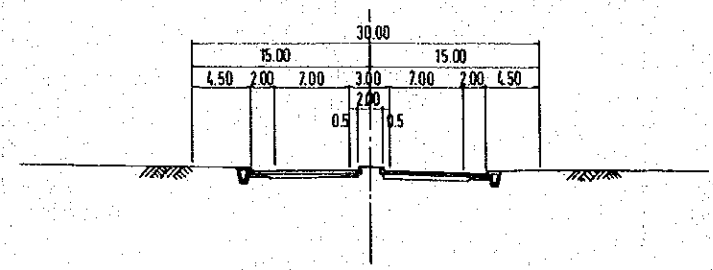
NORTH COASTAL ROAD SECTION



A, C - RAMP SECTION

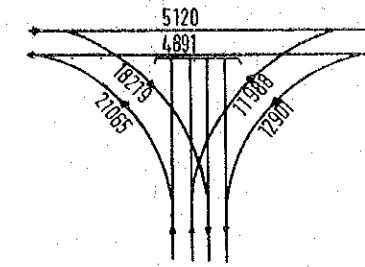


OUTER RING ROAD SECTION

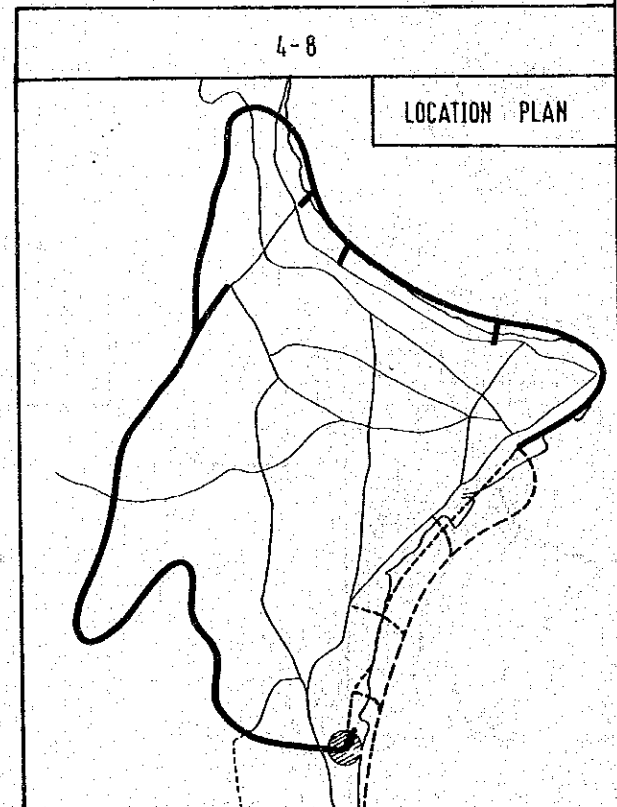
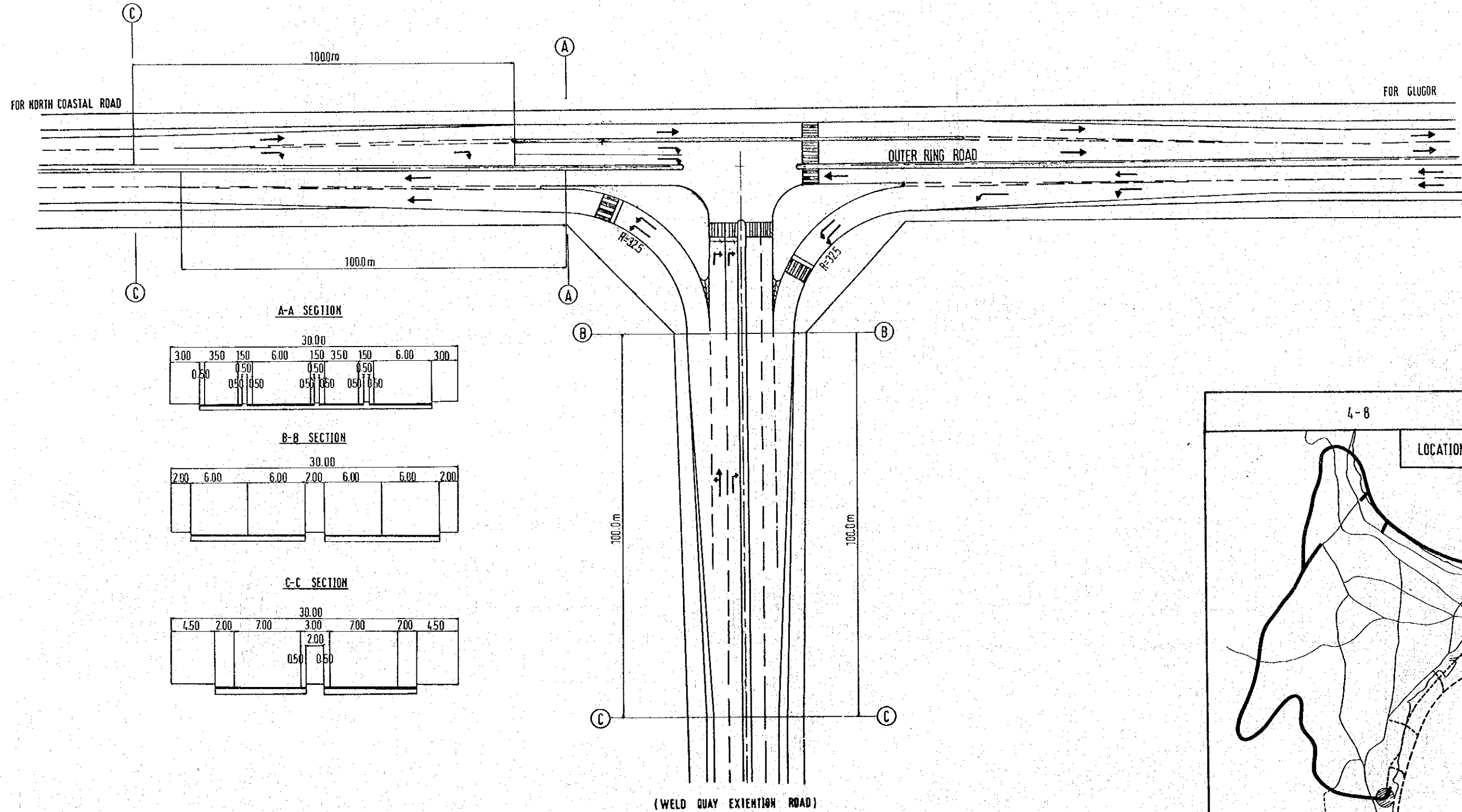
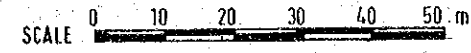


3-8

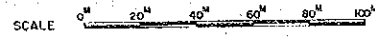
TRAFFIC VOLUME



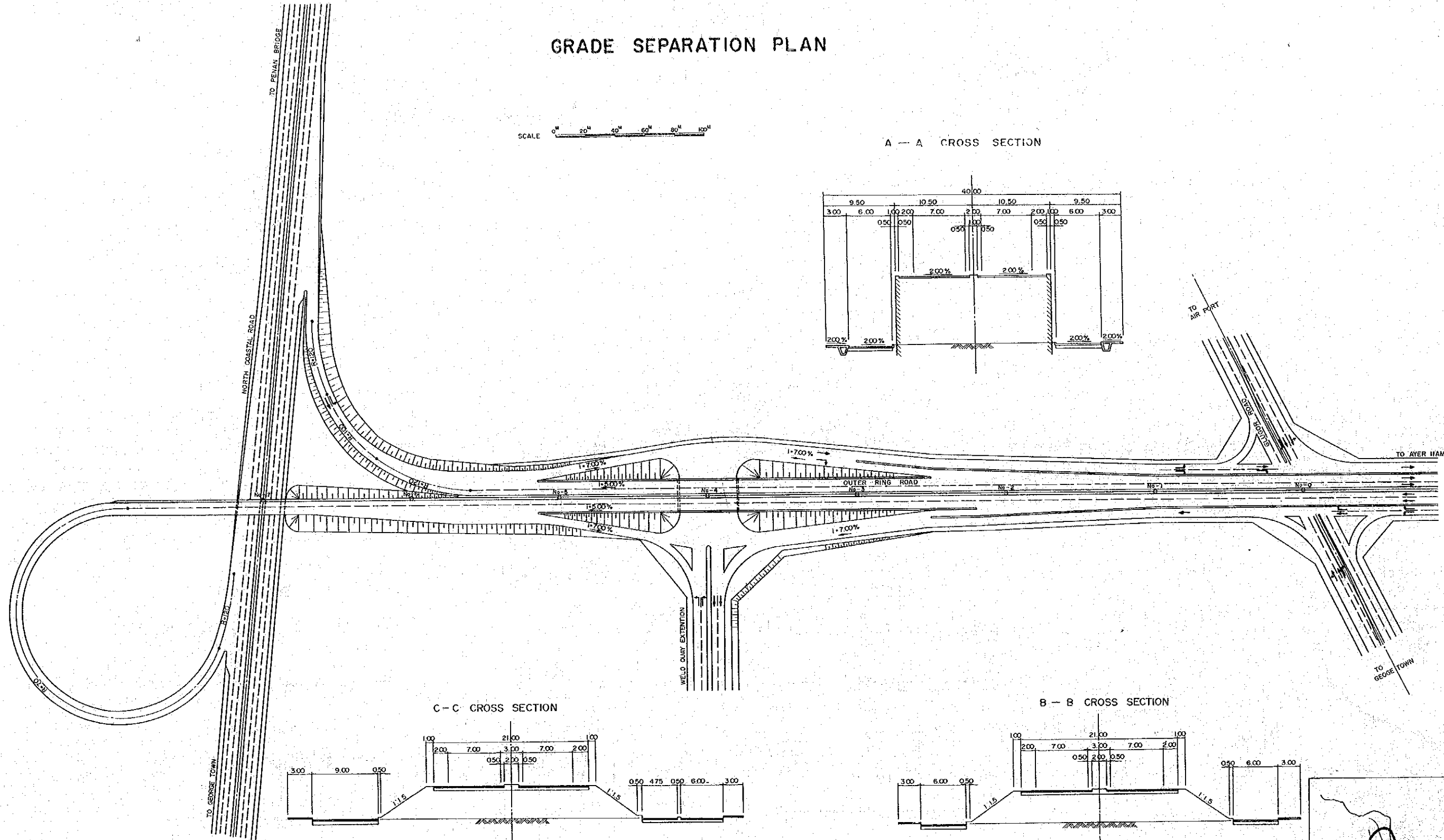
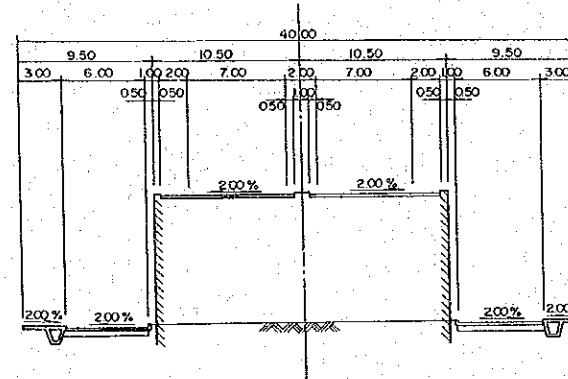
AT-GRADE INTERSECTION PLAN



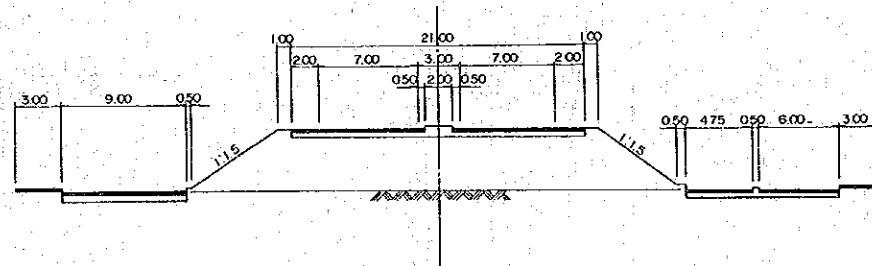
GRADE SEPARATION PLAN



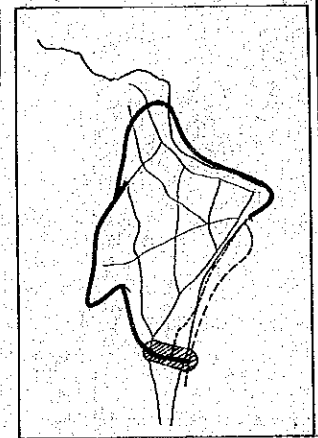
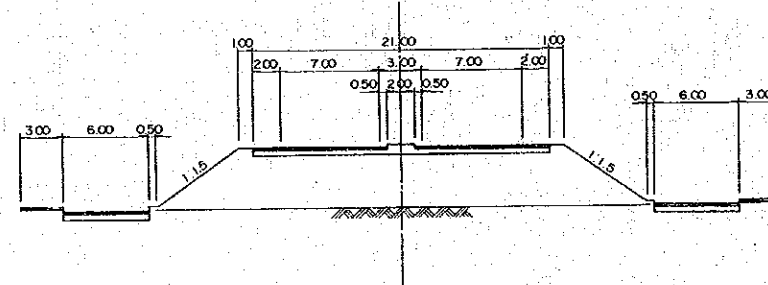
A - A CROSS SECTION



C - C CROSS SECTION



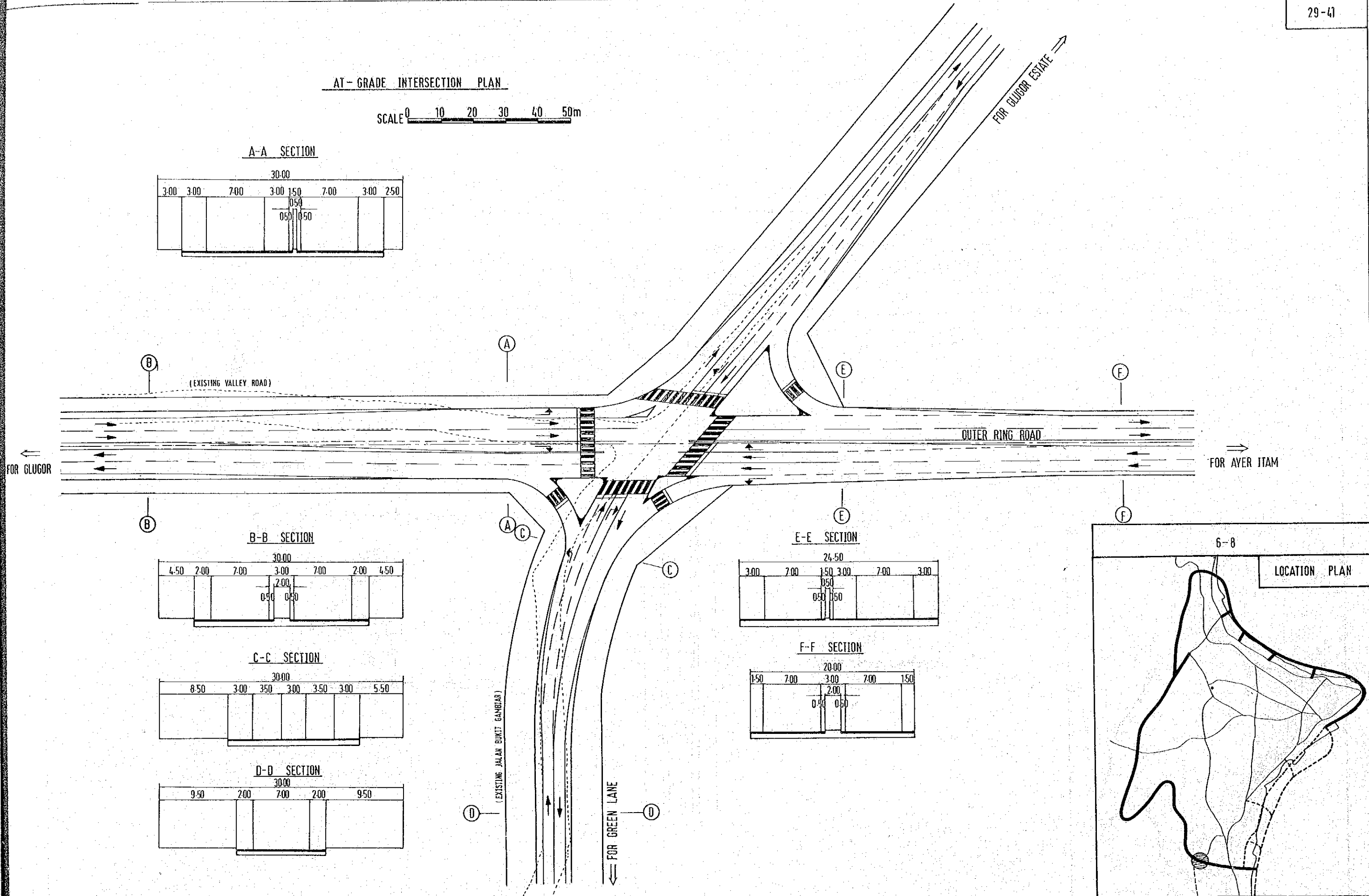
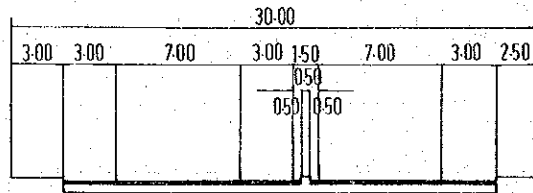
B - B CROSS SECTION



AT-GRADE INTERSECTION PLAN

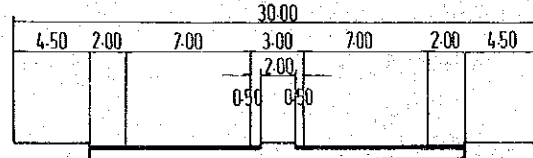
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A-A SECTION

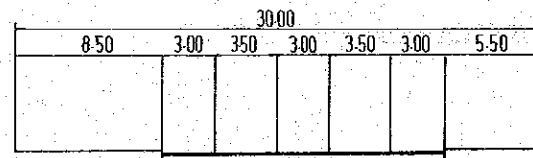


B

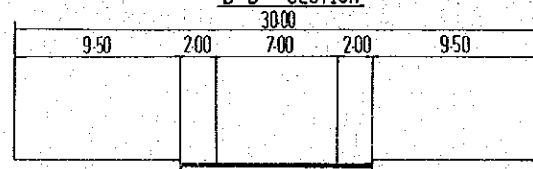
B-B SECTION



C-C SECTION



D-D SECTION



A

E

F

E

F

A

C

C

D

D

6-8

LOCATION PLAN

