

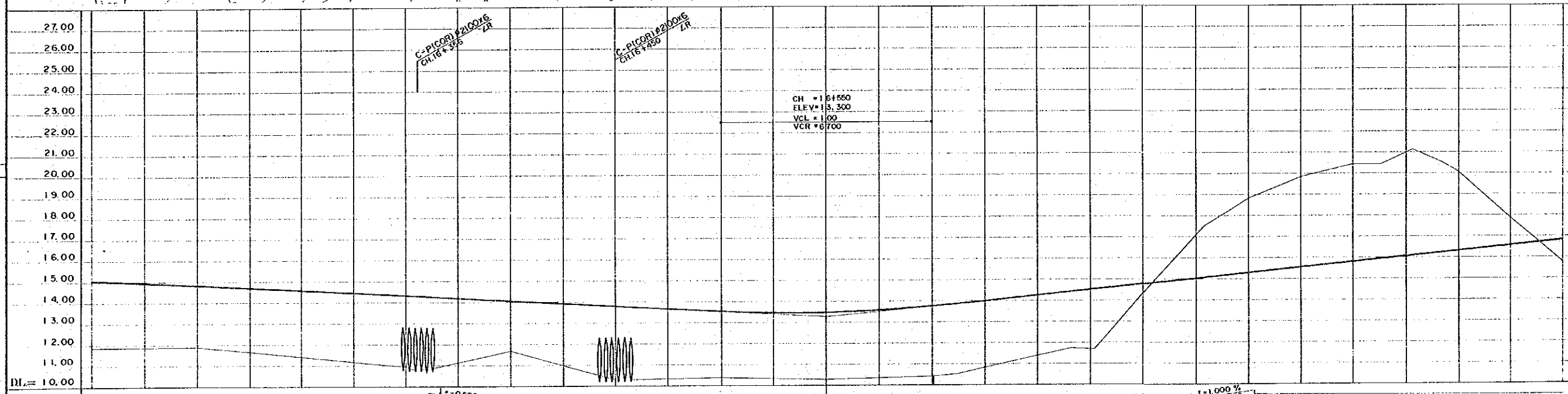
TRAFFIC CATEGORY MEDIUM
 DESIGN SPEED 70 kph
 FORMATION WIDTH 8.5m
 SEAL WIDTH 6.5m

JOINS PLAN No. A1/ 87820

JOINS PLAN No. A1/ 87822

CURVE 24
 IA = 58° 47' 32"
 R = 500
 T = 281.691
 LC = 513.059
 BC = 164800.768
 EQ = 174113.827

INTERSECTION POINTS				
I.P. NO.	Northings	Eastings	Bearing	Distance
23	9069013.000	439730.000	289-21-32	1215.738
24	9069416.000	438183.000	348-09-05	813.330
25	9068212.000	438016.000		



NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS		
DIST	OFFSET	R.L.

GRADIENT	L = 0.300% L = 875.000		L = 1.000% L = 700.000																																																																																																																						
E.W.K. CUT QTS. m ³																																																																																																																									
FILL																																																																																																																									
DRAIN L.S. R.L.S.																																																																																																																									
GRADE LEVELS	15.050	14.925	14.800	14.675	14.550	14.425	14.300	14.175	14.050	13.925	13.800	13.675	13.550	13.425	13.300	13.175	13.050	12.925	12.800	12.675	12.550	12.425	12.300	12.175	12.050	11.925	11.800	11.675	11.550	11.425	11.300	11.175	11.050	10.925	10.800	10.675	10.550	10.425	10.300	10.175	10.050	9.925	9.800	9.675	9.550	9.425	9.300	9.175	9.050	8.925	8.800	8.675	8.550	8.425	8.300	8.175	8.050	7.925	7.800	7.675	7.550	7.425	7.300	7.175	7.050	6.925	6.800	6.675	6.550	6.425	6.300	6.175	6.050	5.925	5.800	5.675	5.550	5.425	5.300	5.175	5.050	4.925	4.800	4.675	4.550	4.425	4.300	4.175	4.050	3.925	3.800	3.675	3.550	3.425	3.300	3.175	3.050	2.925	2.800	2.675	2.550	2.425	2.300	2.175	2.050	1.925	1.800	1.675	1.550	1.425	1.300	1.175	1.050	0.925	0.800	0.675	0.550	0.425	0.300	0.175	0.050
SURFACE LEVELS	11.88	11.89	11.90	11.91	11.92	11.93	11.94	11.95	11.96	11.97	11.98	11.99	12.00	12.01	12.02	12.03	12.04	12.05	12.06	12.07	12.08	12.09	12.10	12.11	12.12	12.13	12.14	12.15	12.16	12.17	12.18	12.19	12.20	12.21	12.22	12.23	12.24	12.25	12.26	12.27	12.28	12.29	12.30	12.31	12.32	12.33	12.34	12.35	12.36	12.37	12.38	12.39	12.40	12.41	12.42	12.43	12.44	12.45	12.46	12.47	12.48	12.49	12.50	12.51	12.52	12.53	12.54	12.55	12.56	12.57	12.58	12.59	12.60	12.61	12.62	12.63	12.64	12.65	12.66	12.67	12.68	12.69	12.70	12.71	12.72	12.73	12.74	12.75	12.76	12.77	12.78	12.79	12.80	12.81	12.82	12.83	12.84	12.85	12.86	12.87	12.88	12.89	12.90	12.91	12.92	12.93	12.94	12.95	12.96	12.97	12.98	12.99	13.00								
CHAINAGE	16200.00	16225.00	16250.00	16275.00	16300.00	16325.00	16350.00	16375.00	16400.00	16425.00	16450.00	16475.00	16500.00	16525.00	16550.00	16575.00	16600.00	16625.00	16650.00	16675.00	16700.00	16725.00	16750.00	16775.00	16800.00	16825.00	16850.00	16875.00	16900.00	16925.00	16950.00																																																																																										
CURVE DETAILS	R = 0		R = 500																																																																																																																						
SUPER ELEVATION DETAILS	RHS & LHS -3.0%		LHS 5.0% RHS -5.0%																																																																																																																						

SURVEY JICA Date: _____ VERTICAL DATUM: ORIGIN MEAN SEA LEVEL TOKYO TIDE G. HORIZONTAL DATUM: ORIGIN AZIMUTH DATA A.M.G. AA089 SURVEY BOOK NOS: _____		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989 Principal: <i>J. Anli</i>		DRAWN K.E. CHECKED: <i>[Signature]</i> DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i>		RECOMMENDED PROJECT ENGINEER: <i>[Signature]</i> APPROVED: <i>[Signature]</i> 20.10.89 SECRETARY: <i>[Signature]</i>		SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUCA SECTION) PLAN & LONGITUDINAL SECTION (CH. 16 + 200) — (CH. 16 + 900)	
REV	AMENDMENTS	BY	APP'D	DATE	PROJECT No. S.C. 120-33-811/A	PAPUA NEW GUINEA DEPARTMENT OF WORKS	DRAWING No. A1/ 87821	SHEET 63 OF 281			

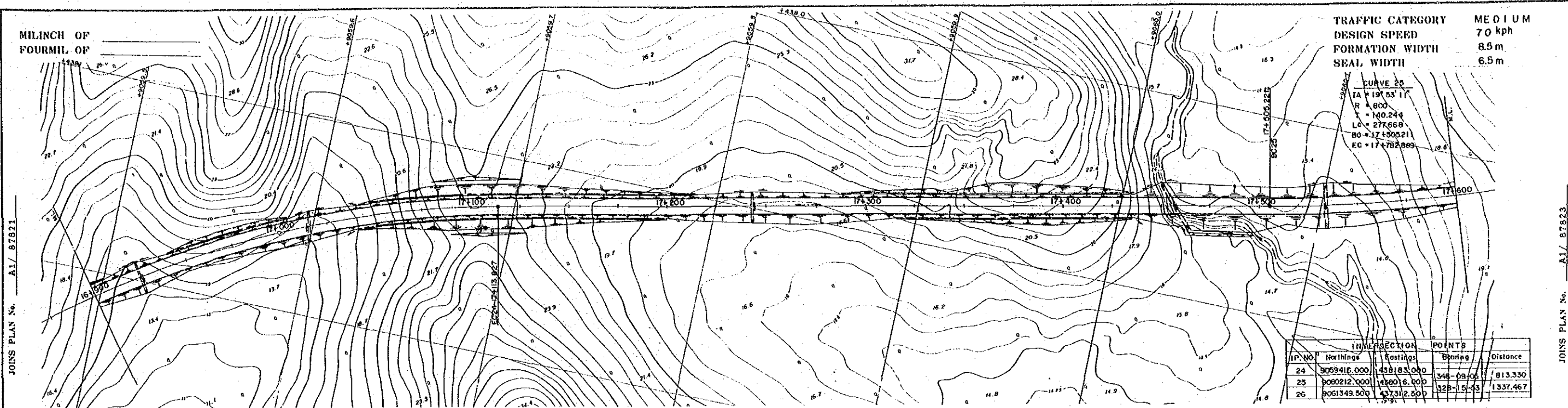
MILNCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

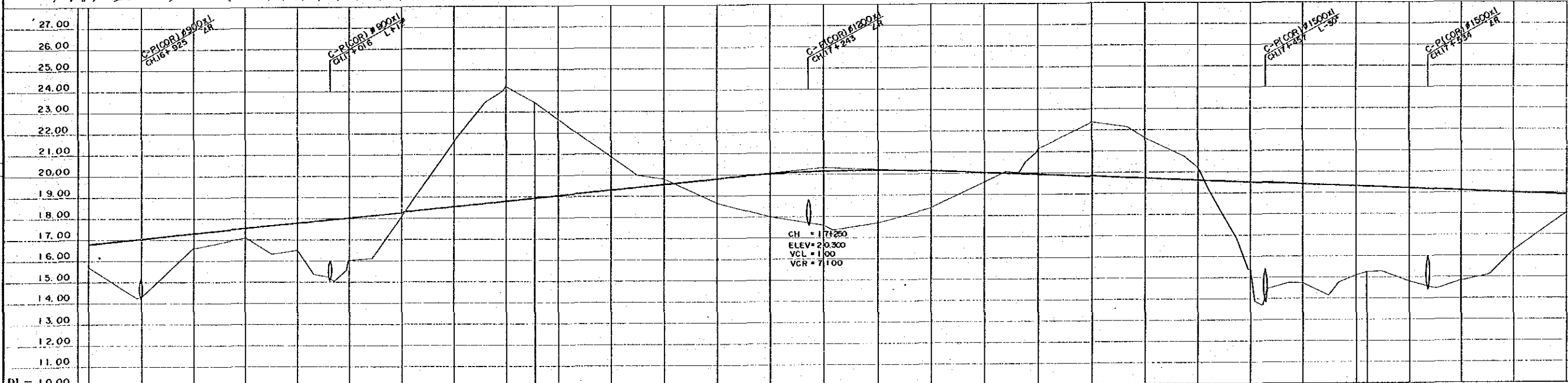
CURVE 25
TA = 197.5311
R = 800
LC = 140.244
BO = 17+905.21
EC = 17+782.889

JOINS PLAN No. A1/ 87821

JOINS PLAN No. A1/ 87823



IP. NO.	Northings	Eastings	Bearing	Distance
24	3059416.000	458183.000	348-09-05	813.330
25	3060212.000	459015.000	328-15-43	1337.467
26	3061349.500	457312.500		



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

DI = 10.00	GRADIENT	EWK. CUT QTS. m ³	FILL	DRAIN L.I.S. R.I.S.	GRADE LEVELS	SURFACE LEVELS	CHAINAGE	CURVE DETAILS	SUPER ELEVATION DETAILS
	1.000% L=700.000				16.800	15.75	16900.00	R=500	LHS 5.0% RHS -5.0%
					17.000	16.52	17000.00		
					18.000	16.06	17025.00		
					18.300	16.04	17050.00		
					18.500	21.61	17075.00		
					18.800	24.19	17100.00		
					19.000	23.43	17113.827		
					19.200	22.67	17125.00		
					19.300	20.84	17150.00		
					19.500	19.80	17175.00		
					19.800	18.67	17200.00		
					20.000	17.99	17225.00		
					20.125	17.57	17250.00		
					20.155	17.69	17275.00		
					20.100	18.39	17300.00		
					20.000	19.59	17325.00		
					19.900	21.12	17350.00		
					19.800	22.36	17375.00		
					19.700	21.61	17400.00		
					19.600	20.18	17425.00		
					19.500	15.42	17450.00		
					19.400	14.75	17475.00		
					19.300	13.10	17500.00		
					19.275	12.30	17505.221		
					19.200	14.85	17525.00		
					19.100	14.67	17550.00		
					19.000	15.28	17575.00		
					18.900	18.06	17600.00		

OFFSET PEGS
DIST OFFSET R.L.

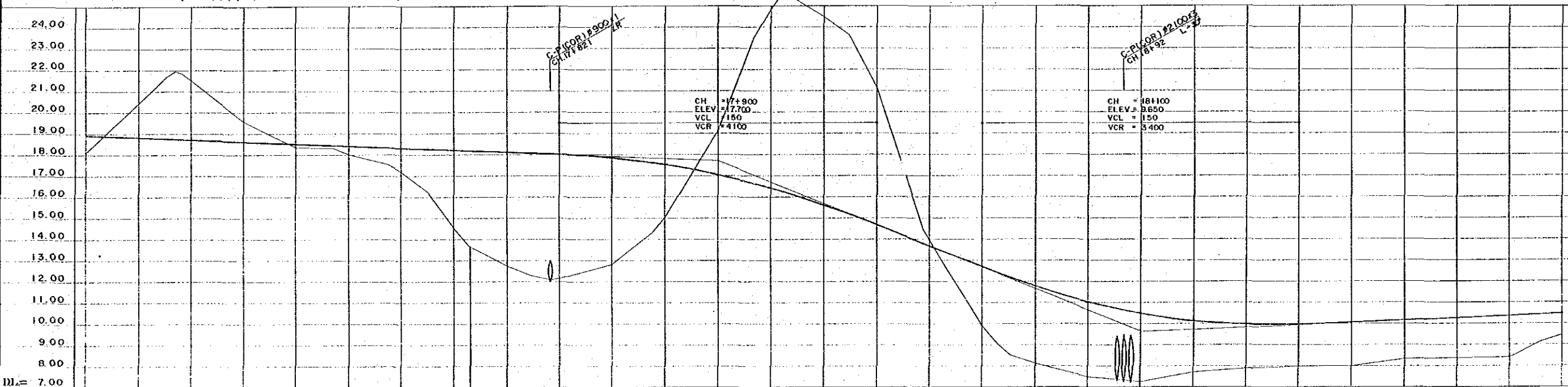
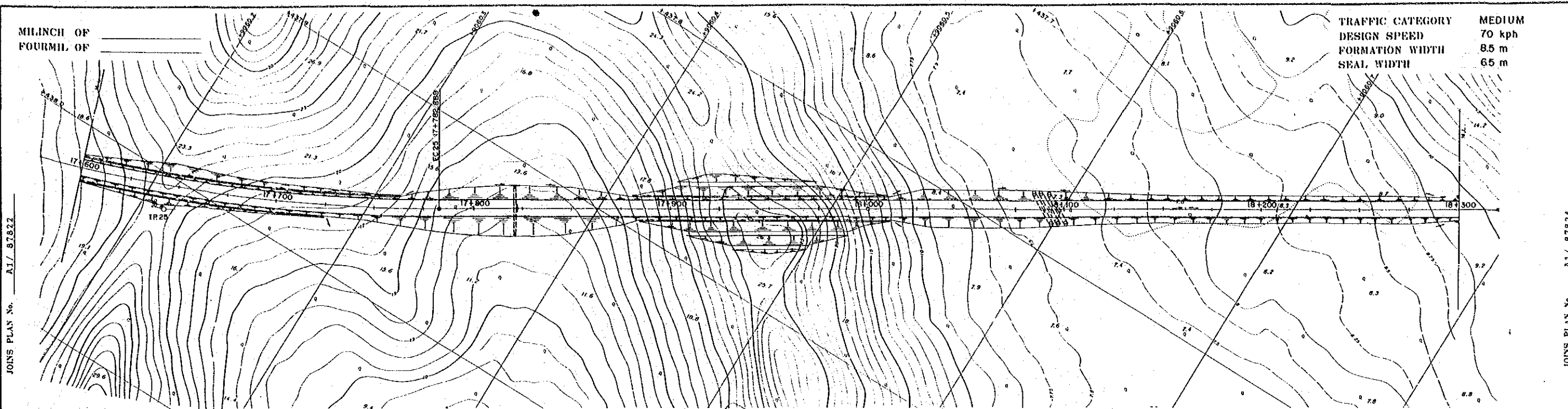
<p>REV AMENDMENTS BY APP'D DATE</p>		<p>SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AAD09 SURVEY BOOK NO. 8</p>		<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989 Principal</p>		<p>DRAWN K.E. CHECKED DESIGNED CHECKED</p>		<p>RECOMMENDED PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER EXECUTIVE ENGINEER SECRETARY</p>		<p>SCALES HORIZ SECTION 1:1,000 VERTICAL SECTION 1:100</p>		<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGTUDINAL SECTION CH. 16 + 900 — CH. 17 + 600 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87822</p>			
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MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87822

JOINS PLAN No. A1/ 87824



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

CHAINAGE	17600.00	17625.00	17650.00	17675.00	17700.00	17725.00	17750.00	17775.00	17800.00	17825.00	17850.00	17875.00	17900.00	17925.00	17950.00	17975.00	18000.00	18025.00	18050.00	18075.00	18100.00	18125.00	18150.00	18175.00	18200.00	18225.00	18250.00	18275.00	18300.00	
GRADE LEVELS	18.900	18.800	18.700	18.600	18.500	18.400	18.300	18.200	18.168	18.100	18.000	17.824	17.498	17.020	16.392	15.612	14.688	13.675	12.669	11.755	11.025	10.480	10.119	9.942	9.900	10.050	10.150	10.250	10.350	10.450
SURFACE LEVELS	18.06	20.40	21.53	19.37	18.600	18.00	17.19	14.57	13.65	12.74	12.16	12.85	15.00	19.12	24.45	21.19	13.98	9.98	8.11	7.51	7.26	7.75	7.92	8.00	8.01	8.34	8.40	8.42	9.46	

OFFSET PEGS
DIST OFFSET R.L.

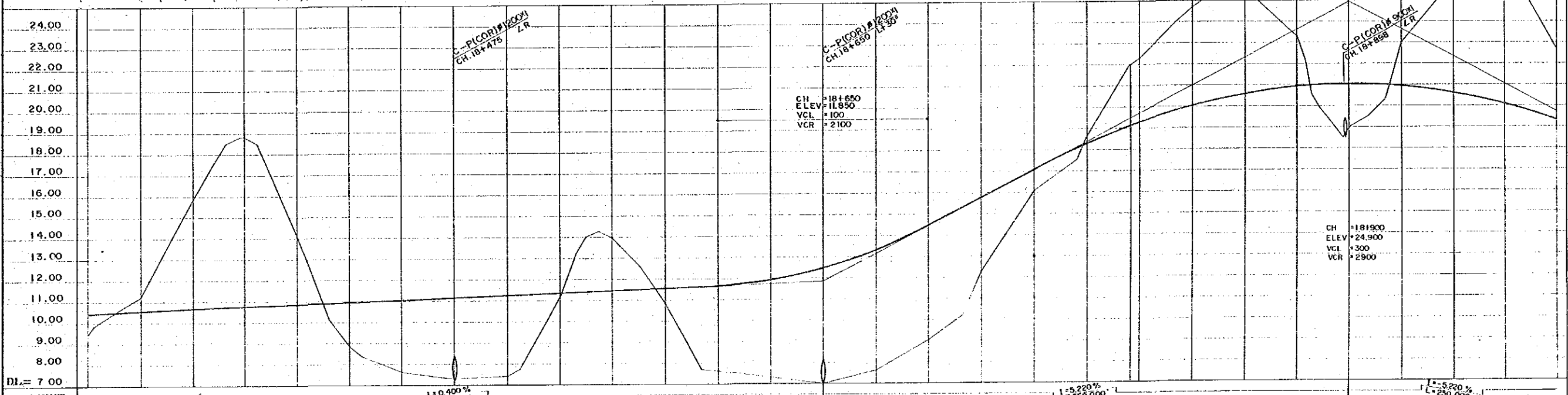
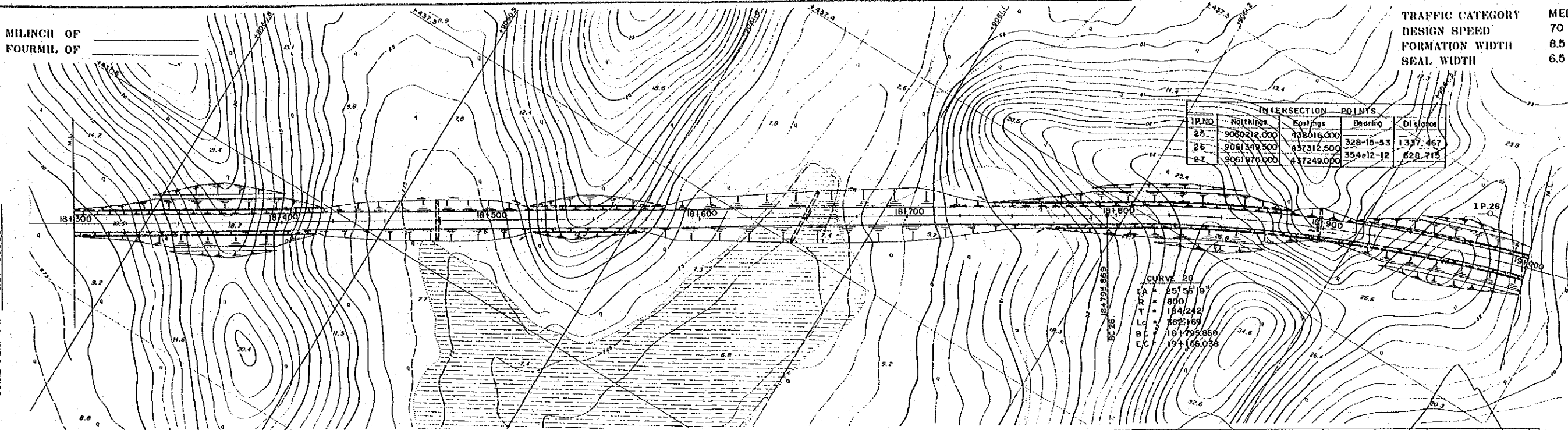
<p>REV. AMENDMENTS</p>		<p>BY</p>	<p>APP'D</p>	<p>DATE</p>	<p>SURVEY</p> <p>JICA</p> <p>VERTICAL DATUM ORIGIN MEAN SEA LEVEL, TOKAI TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. A.1809 SURVEY BOOK NRS</p>	<p>DESIGN</p> <p>JAPAN INTERNATIONAL CO-OPERATION AGENCY</p> <p>Principal: J. Hamada Date: 25 Sep. 1989</p>	<p>DRAWN</p> <p>K.E.</p> <p>CHECKED</p> <p>DESIGNED</p> <p>PROJECT ENGINEER</p>	<p>RECOMMENDED</p> <p>APPROVED</p> <p>24.10.89</p> <p>PRINCIPAL ENGINEER</p> <p>EXECUTIVE ENGINEER</p>	<p>SCALES</p> <p>HORIZ. SECTION 1:1,000</p> <p>VERTICAL SECTION 1:100</p>	<p>SHEET 65 OF 281</p> <p>PROJECT No. S.C. 120-33-811/A</p>	<p>CENTRAL / GULF PROVINCES</p> <p>TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION)</p> <p>PLAN & LONGITUDINAL SECTION</p> <p>CH. 17 + 600 — CH. 18 + 300</p>	<p>PAPUA NEW GUINEA</p> <p>DEPARTMENT OF WORKS</p> <p>DRAWING No. A1/ 87823</p>
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ONE INCH OF
FOUR HUNDRED OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87823

JOINS PLAN No. A1/ 87825



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

GRADIENT	1:0.400% L=550.000										1:5.220% L=250.000										1:5.220% L=250.000									
EWK. CUT QTS. m ³ FILL																														
DRAIN L.I.S. R.I.S.																														
GRADE LEVELS	10.450	10.650	10.650	10.750	10.850	10.950	11.050	11.150	11.250	11.450	11.550	11.650	11.901	12.450	13.306	14.460	15.765	17.070	18.266	19.096	19.245	20.000	20.550	20.876	20.985	20.876	20.500	20.008	19.245	
SURFACE LEVELS	9.46	11.21	13.79	16.79	19.09	21.82	24.92	27.31	29.64	31.13	32.85	34.61	36.30	37.03	37.63	38.05	38.29	38.09	37.62	36.92	35.96	34.66	33.00	31.00	28.76	26.26	23.53	20.500	17.245	
CHAINAGE	18300.00	18325.00	18350.00	18375.00	18400.00	18425.00	18450.00	18475.00	18500.00	18525.00	18550.00	18575.00	18600.00	18625.00	18650.00	18675.00	18700.00	18725.00	18750.00	18775.00	18800.00	18825.00	18850.00	18875.00	18900.00	18925.00	18950.00	18975.00	19000.00	
CURVE DETAILS	R=100															R=800														
SUPER ELEVATION DETAILS	RHS & LHS -3.0%																													

OFFSET PEGS
DIST OFFSET R.L.

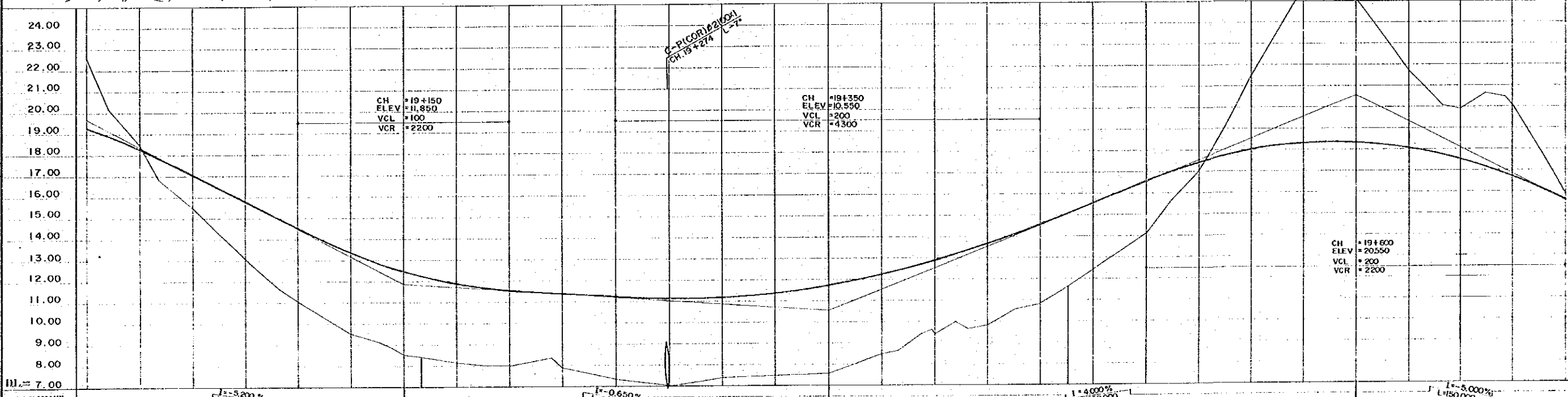
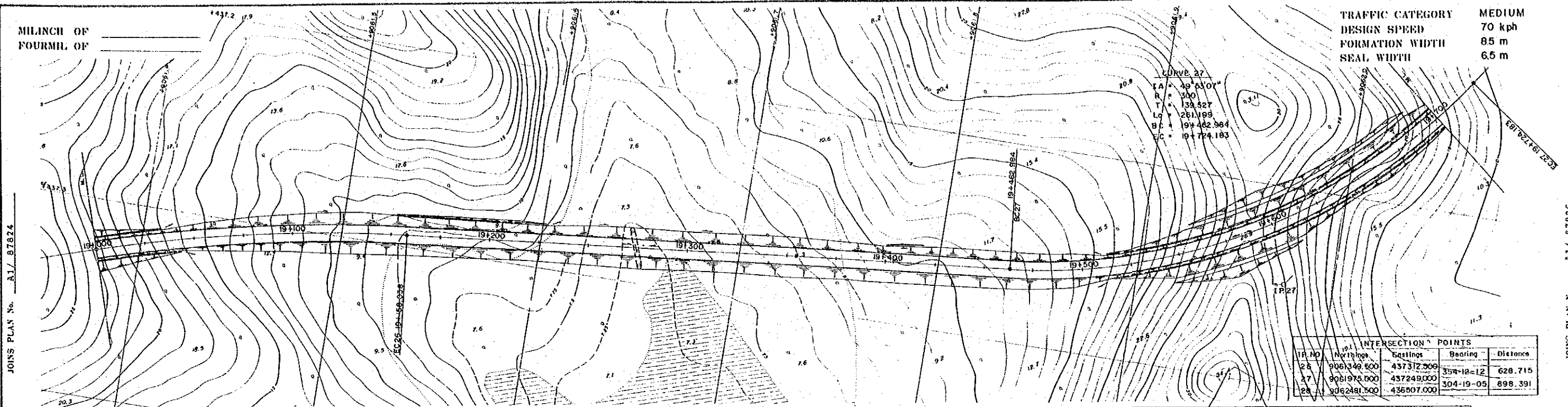
JICA SURVEY VERTICAL DATUM ORIGIN HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. A4089 SURVEY BOOK NO.5			JAPAN INTERNATIONAL CO-OPERATION AGENCY DESIGN Principal: <i>[Signature]</i> Date: 25 Sep. 1989			K.E. DRAWN CHECKED DESIGNED CHECKED EXECUTIVE ENGINEER			RECOMMENDED PROJECT ENGINEER APPROVED 24.10.89 SECRETARY			SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100 SHEET 66 OF 281 PROJECT No. S.C.120-33-814/A			CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 18 + 300 — CH. 19 + 000 PAPER NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87824								
AMENDMENTS			BY			APP'D			DATE			REV			BY			APP'D			DATE		

MILINCH OF FOURMIL. OF

TRAFFIC CATEGORY MEDIUM
 DESIGN SPEED 70 kph
 FORMATION WIDTH 85 m
 SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87824

JOINS PLAN No. A1/ 87825



NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

CH	ELEV	CH	ELEV	CH	ELEV	CH	ELEV	CH	ELEV	CH	ELEV	CH	ELEV	CH	ELEV	CH	ELEV	CH	ELEV	CH	ELEV	CH	ELEV																																		
19000.00	22.57	19025.00	18.47	19050.00	15.51	19075.00	13.06	19100.00	11.02	19125.00	9.53	19150.00	8.51	19175.00	8.16	19200.00	8.00	19225.00	7.90	19250.00	7.35	19275.00	7.02	19300.00	7.42	19325.00	7.51	19350.00	7.60	19375.00	8.50	19400.00	9.42	19425.00	9.64	19450.00	10.85	19475.00	11.63	19500.00	14.06	19525.00	17.01	19550.00	21.41	19575.00	25.52	19600.00	25.08	19625.00	21.62	19650.00	19.86	19675.00	20.01	19700.00	15.76

OFFSET PEGS
 DIST OFFSET R.L.

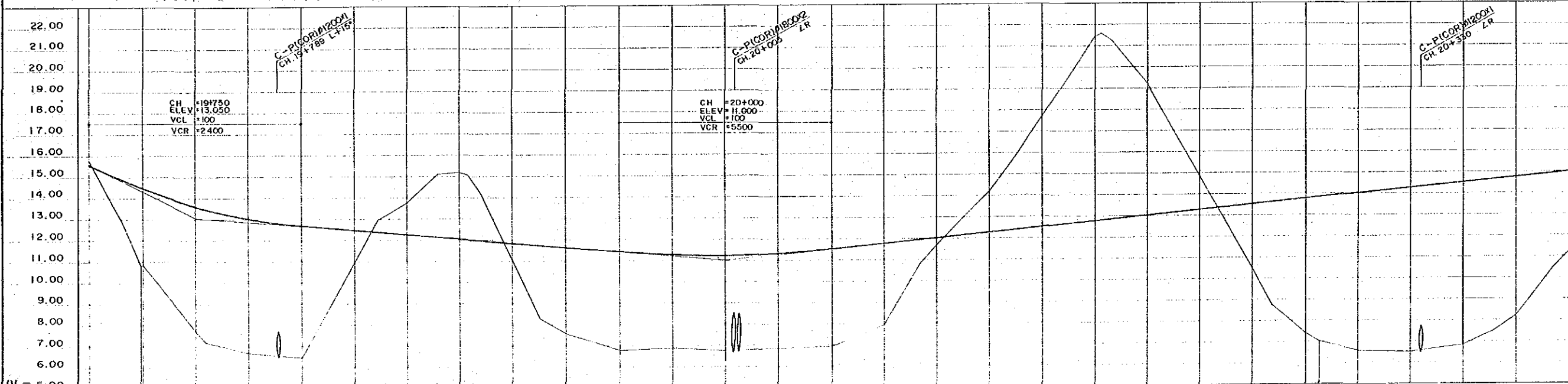
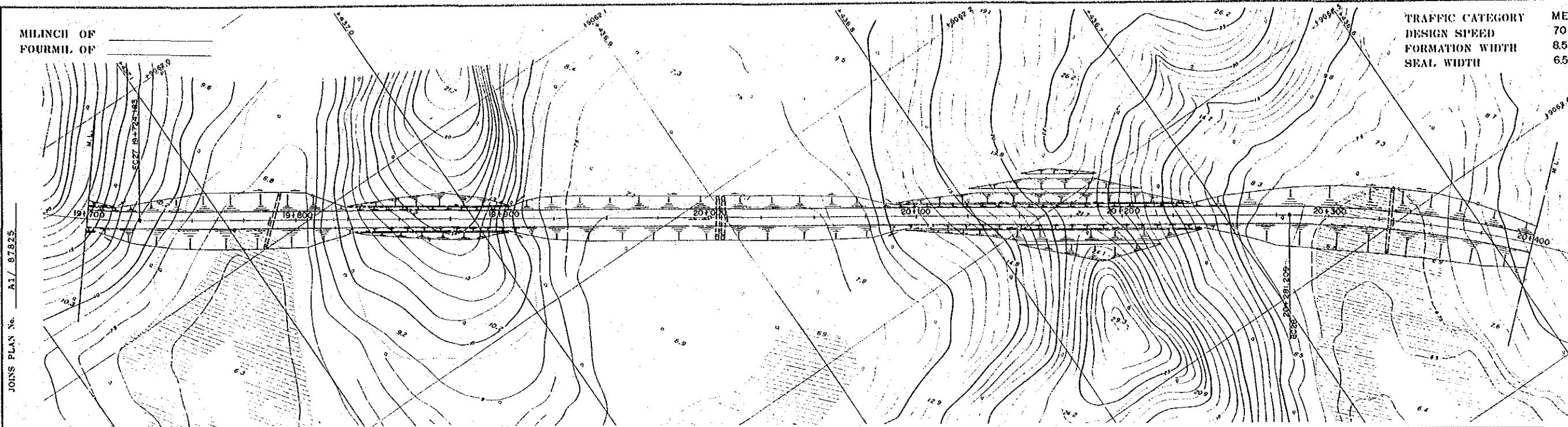
SURVEY JICA Date: _____ VERTICAL DATUM: OREGON MEAN SEA LEVEL (OREGON TIME ZONE) HORIZONTAL DATUM: OREGON AZIMUTH DATA A.M.G. AAR09 SURVEY BOOK N9.8			DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989 Principal: J. J. J. J. J.			DRAWN K.E. CHECKED: _____ DESIGNED: _____ CHECKED: _____			RECOMMENDED PROJECT ENGINEER: _____ APPROVED: _____ SECRETARY: _____			SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100			CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 19 + 000 — CH. 19 + 700 P.A.P.U.A. NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87825		
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MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87825

JOINS PLAN No. A1/ 87827



NOTES
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

GRADIENT	1:5.000% L=150.000		1:0.820% L=250.000		1:1.000% L=500.000	
EWK. CUT	m		m		m	
DRAIN	L.H.S.		R.H.S.		R.H.S.	
GRADE LEVELS	15.550	14.465	13.575	12.640	11.820	11.228
SURFACE LEVELS	15.76	10.81	7.72	6.68	7.58	6.87
CHAINAGE	19700.00	19725.00	19750.00	19775.00	19800.00	19825.00
CURVE DETAILS	R=300		R=∞		R=500	
SUPER ELEVATION DETAILS	LHS 5.0%		RHS 5.0%		RHS & LHS -3.0%	

OFFSET PEGS
DIST OFFSET R.L.

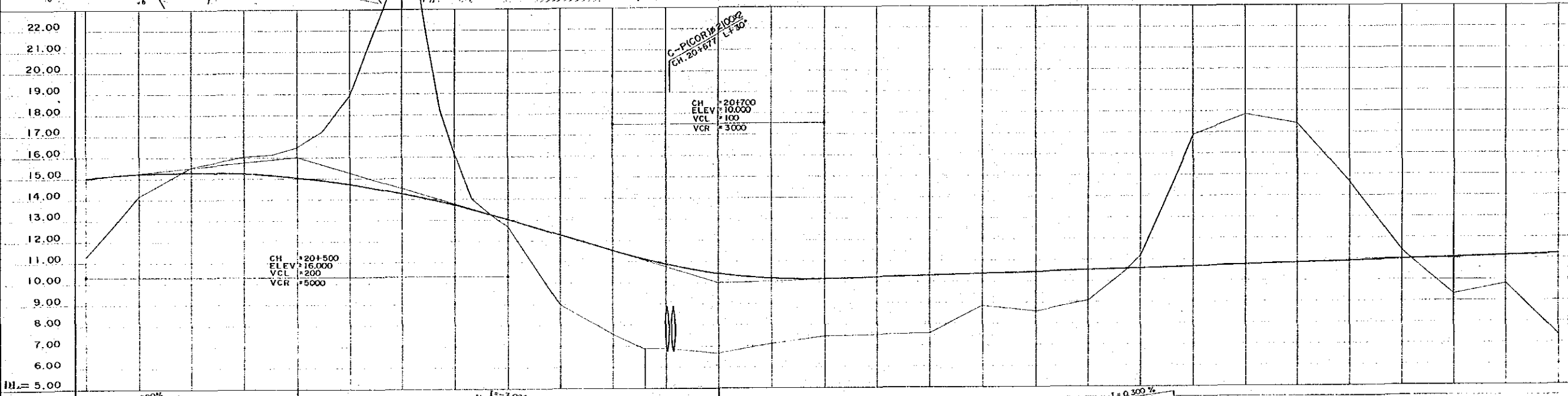
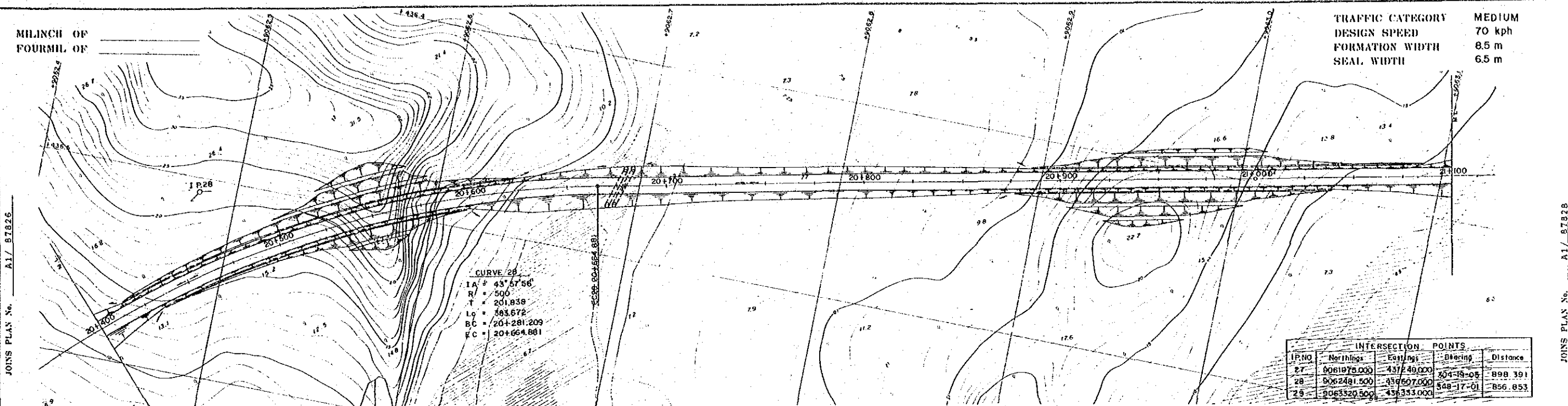
REV	AMENDMENTS	BY	APP'D	DATE	<p>SURVEY J.I.C.A. VERTICAL DATUM MEAN SEA LEVEL TOKYO TIDE G. HORIZONTAL DATUM AZIMUTH DATA A.M.G. 44089 SURVEY BOOK NO. 6</p>	<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Principal 25 Sep. 1989</p>	<p>DRAWN K.E. CHECKED DESIGNED CHECKED</p>	<p>RECOMMENDED PROJECT ENGINEER APPROVED EXECUTIVE ENGINEER</p>	<p>SCALES HORZ SECTION 1:1,000 VERTICAL SECTION 1:100</p>	<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 19 + 700 --- CH. 20 + 400</p>	<p>PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87826</p>
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MEMORANDUM OF
 FOURMIL OF

TRAFFIC CATEGORY MEDIUM
 DESIGN SPEED 70 kph
 FORMATION WIDTH 8.5 m
 SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87825

JOINS PLAN No. A1/ 87828



NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

GRADIENT	L = 1.000% L = 500.000		L = 3.000% L = 200.000		L = 0.300% L = 450.000	
EWK CUT						
QTS. FILL						
DRAIN L.S. R.L.S.						
GRADE LEVELS	20400.00	20425.00	20450.00	20475.00	20500.00	20525.00
SURFACE LEVELS	11.24	14.13	15.52	16.02	16.45	16.88
CHAINAGE	20400.00	20425.00	20450.00	20475.00	20500.00	20525.00
CURVE DETAILS	R=500		R=500		R=500	
SUPER ELEVATION DETAILS	LHS 5.0% RHS -5.0%		LHS 5.0% RHS -5.0%		RHS 8 LHS -3.0%	

OFFSET PEGS

DIST	OFFSET	R.L.

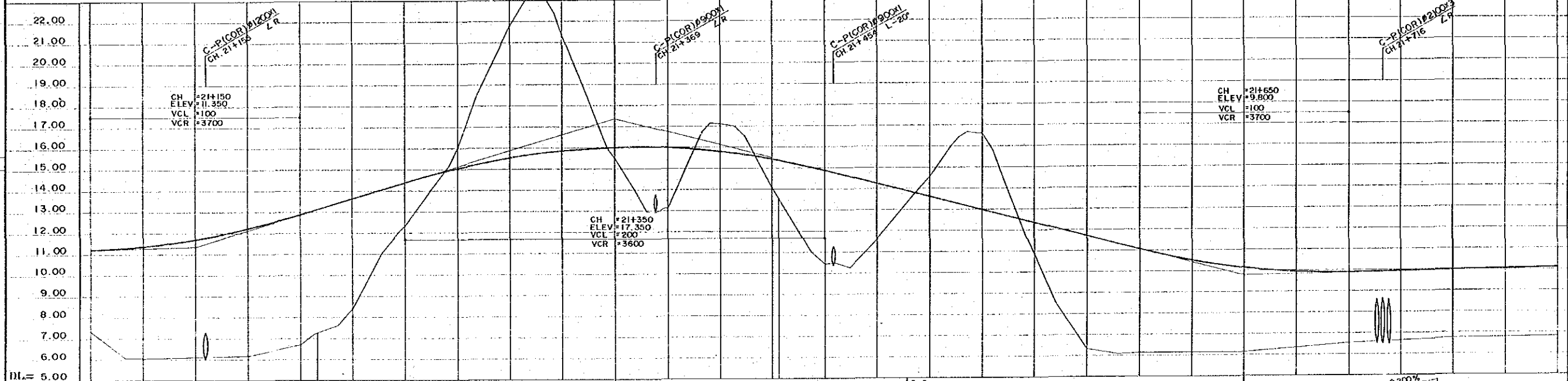
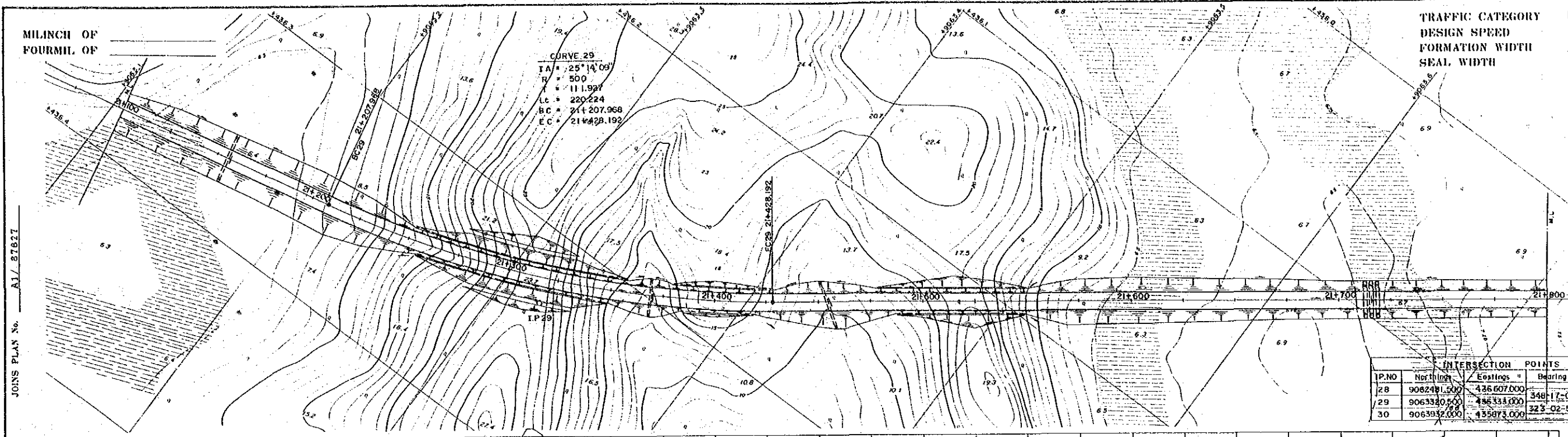
SURVEY JICA VERTICAL DATUM: MEAN SEA LEVEL, TOKYO TIDE G. HORIZONTAL DATUM: AUSTRALIAN AZIMUTH DATA A.M.G. A4809 SURVEY BOOK NO. 6				DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989				DRAWN K.E. PROJECT ENGINEER				RECOMMENDED [Signature] PRINCIPAL ENGINEER				SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100				CENTRAL GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAVA SECTION) PLAN & LONGITUDINAL SECTION CH. 20 + 400 — CH. 21 + 100			
CHECKED [Signature] EXECUTIVE ENGINEER				CHECKED [Signature] EXECUTIVE ENGINEER				APPROVED [Signature] SECRETARY				SHEET 69 OF 281 PROJECT No. S.C. 120-33-S11/A DEPARTMENT OF WORKS DRAWING No. A1/ 87827											

MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87827

JOINS PLAN No. A1/ 87829



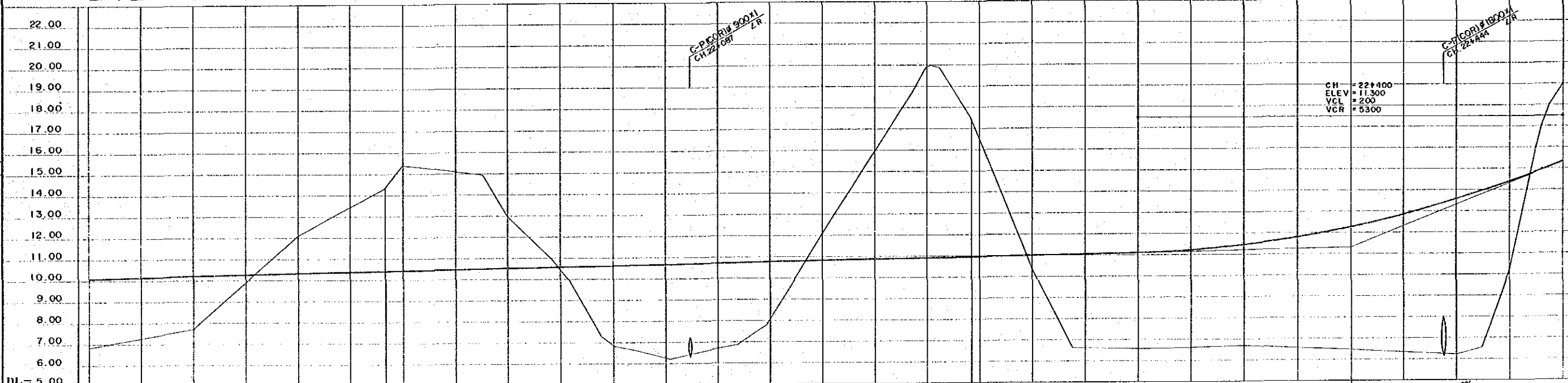
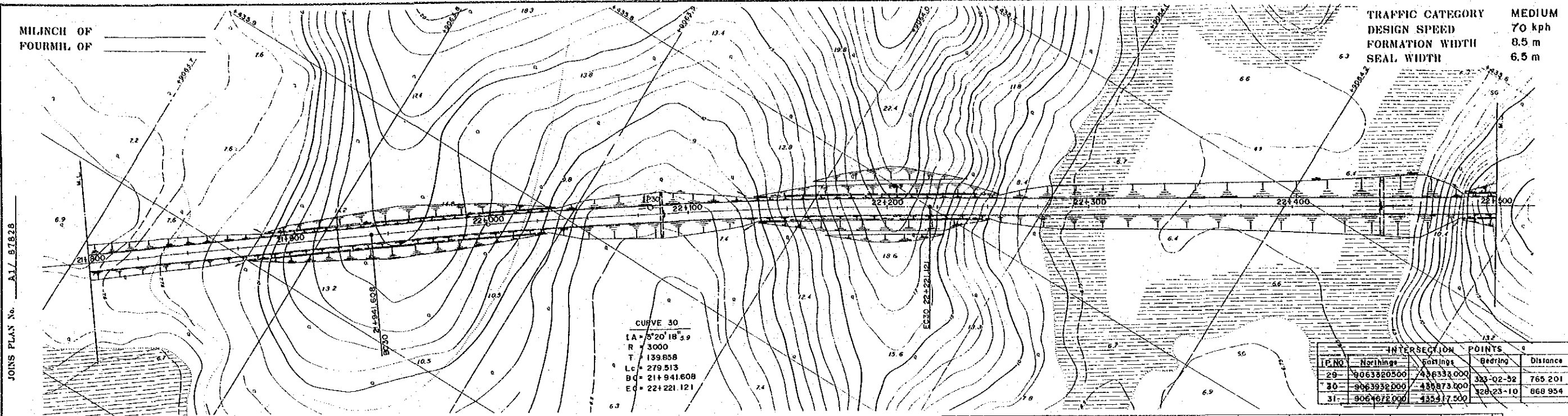
NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East. Longitude applies

DI = 5.00	GRADIENT	EWK CUT	QTS. m	FILL	DRAIN	GRADE LEVELS	SURFACE LEVELS	CHAINAGE	CURVE DETAILS	SUPER ELEVATION DETAILS
	L = 0.300% L = 450.000					21+00 7.33	21+00 7.33	21+00.00	R=∞	-3.0%
	L = 3.000% L = 200.000					21+25 11.35	21+25 11.35	21+25.00	R=500	RHS 5% LHS -5%
	L = -2.517% L = 300.000					21+50 11.68	21+50 11.68	21+50.00	R=∞	RHS 8 LHS -3.0%
	L = 0.200% L = 750.000					21+75 10.00	21+75 10.00	21+75.00		

OFFSET PEGS

DIST	OFFSET	R.L.

<p>AMENDMENTS</p>		<p>BY</p>	<p>APP'D</p>	<p>DATE</p>	<p>SURVEY</p> <p>JICA</p> <p>VERTICAL DATUM: OHGIN MEAN SEA LEVEL TOKYO TIDE G. HORIZONTAL DATUM: OHGIN AZIMUTH DATA A.M.G. A4089 SURVEY BOOK No. 5</p>	<p>DESIGN</p> <p>JAPAN INTERNATIONAL CO-OPERATION AGENCY</p> <p>J. Yamai Principal</p> <p>25 Sep. 1989 Date</p>	<p>DRAWN</p> <p>K.E.</p> <p>Checked: [Signature]</p> <p>DESIGNED: [Signature]</p> <p>CHECKED: [Signature]</p>	<p>RECOMMENDED</p> <p>PROJECT ENGINEER: [Signature]</p> <p>PRINCIPAL ENGINEER: [Signature]</p> <p>APPROVED: [Signature]</p> <p>EXECUTIVE ENGINEER: [Signature]</p>	<p>SCALES</p> <p>HORIZ. SECTION 1:1,000</p> <p>VERTICAL SECTION 1:100</p>	<p>SHEET 70 OF 281</p> <p>PROJECT No. S.C. 120-33-811/A</p>	<p>CENTRAL / GULF PROVINCES</p> <p>TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION)</p> <p>PLAN & LONGITUDINAL SECTION</p> <p>CH. 21 + 100 — CH. 21 + 800</p> <p>PAPUA NEW GUINEA</p> <p>DEPARTMENT OF WORKS</p> <p>DRAWING No. A1/ 87828</p>
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NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

GRADIENT	1 = 0.200% L = 750.000																				1 = 4.000% L = 200.000															
EWK. CUT QTS. m ³	-																				-															
CUT FILL	-																				-															
DRAIN L.H.S. R.H.S.	-																				-															
GRADE LEVELS	10.100	10.150	10.200	10.250	10.300	10.350	10.365	10.400	10.450	10.500	10.550	10.600	10.650	10.700	10.750	10.800	10.850	10.900	10.945	10.950	11.000	11.050	11.100	11.209	11.438	11.794	12.250	12.834	13.538	14.359	15.300					
SURFACE LEVELS	5.86	7.28	7.70	9.89	12.07	13.41	14.33	15.35	15.05	12.91	10.42	6.82	6.24	6.70	6.09	2.08	15.91	9.89	7.43	6.48	10.37	5.61	6.54	6.61	6.57	6.46	6.34	6.25	10.19	18.97						
CHAINAGE	21800.00	21825.00	21850.00	21875.00	21900.00	21925.00	21941.608	21950.00	21975.00	22000.00	22025.00	22050.00	22075.00	22100.00	22125.00	22150.00	22175.00	22200.00	22221.121	22225.00	22250.00	22275.00	22300.00	22325.00	22350.00	22400.00	22425.00	22450.00	22475.00	22500.00						
CURVE DETAILS	R = ∞										R = 3000										R = ∞															
SUPER ELEVATION DETAILS	RHS B LHS -3.0%																																			

OFFSET PEGS		
DIST	OFFSET	R.L.

JICA JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989 Principal: <i>[Signature]</i>			DESIGN DRAWN: K.E. CHECKED: <i>[Signature]</i> DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i>			RECOMMENDED PROJECT ENGINEER: <i>[Signature]</i> PRINCIPAL ENGINEER: <i>[Signature]</i> APPROVED: <i>[Signature]</i> 24.10.89 SECRETARY: <i>[Signature]</i>			SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100			CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 21 + 800 — CH. 22 + 500		
SURVEY: JICA VERTICAL DATUM: MEAN SEA LEVEL, TOKERA TIDE G. HORIZONTAL DATUM: AZIMUTH DATA A.M.G. A1089 SURVEY BOOK NOS:			DESIGN: JICA DRAWN: K.E. CHECKED: <i>[Signature]</i> DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i>			RECOMMENDED: PROJECT ENGINEER, PRINCIPAL ENGINEER, APPROVED, SECRETARY			SHEET 71 OF 281 PROJECT No. S.C.120-33-814/A			PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87829		

MILINCH OF
FOURMIL OF

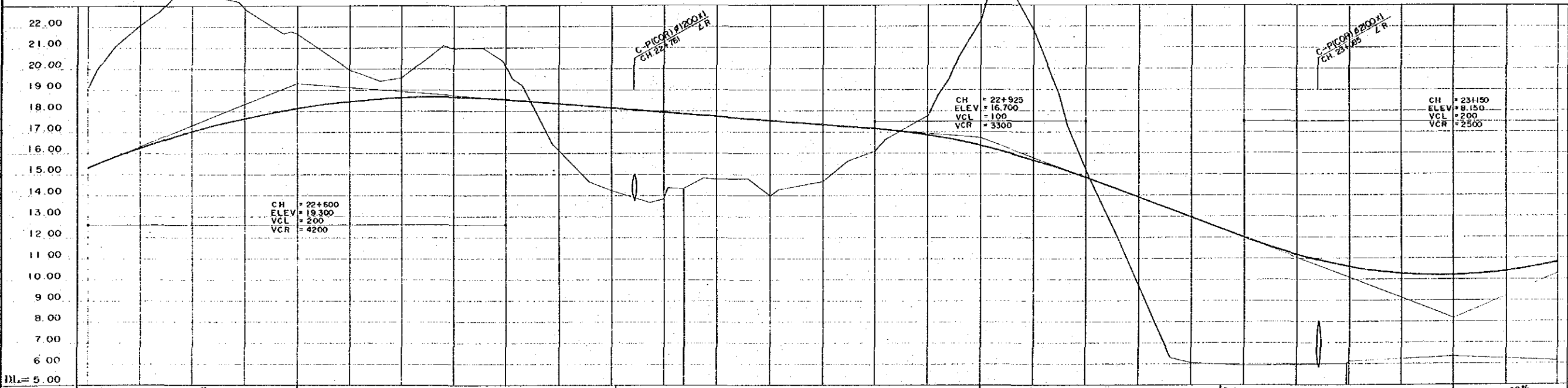
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87829

JOINS PLAN No. A1/ 87831

CURVE DATA
I.A. = 44° 07' 13"
R = 400
T = 166.495
L.C. = 213.834
B.C. = 22+784.722
E.P. = 22+000.556

INTERSECTION POINTS				
IP No.	Northing	Eastings	Chainage	Distance
30-31	9063932.000	435672.000	226-25-10	868.954
31	9064672.000	435417.500	223-25-57	828.669
32	9064664.800	434611.500		



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS

DIST	OFFSET	R.L.

GRADIENT	L = 4.000% L = 200.000		L = -0.800% L = 325.000		L = -3.800% L = 225.000		L = -0.250% L = 200.000																							
EWK. CUT QTS. m³																														
FILL																														
DRAIN I.I.S. R.I.S.																														
GRADE LEVELS	15.300	16.225	17.000	17.625	18.100	18.425	18.600	18.500	18.300	18.100	17.900	17.825	17.700	17.500	17.300	17.100	16.806	16.325	15.656	14.800	13.650	12.900	11.950	11.126	10.575	10.253	10.232	10.345	10.778	
SURFACE LEVELS	18.97	22.05	23.65	22.8	21.65	19.91	19.54	20.90	20.09	16.13	14.21	13.84	14.34	14.77	13.97	14.64	17.75	22.31	21.70	15.12	9.57	6.04	5.91	5.94	6.01	6.11	6.22	6.35	6.25	6.11
CHAINAGE	22500.00	22525.00	22550.00	22575.00	22600.00	22625.00	22650.00	22675.00	22700.00	22725.00	22750.00	22775.00	22800.00	22825.00	22850.00	22875.00	22900.00	22925.00	22950.00	22975.00	23000.00	23025.00	23050.00	23075.00	23100.00	23125.00	23150.00	23175.00	23200.00	
CURVE DETAILS	R = ∞																R = 400				R = ∞									
SUPER ELEVATION DETAILS	RHS & LHS -3.0%																RHS 6.0% LHS -6.0%				RHS & LHS -3.0%									

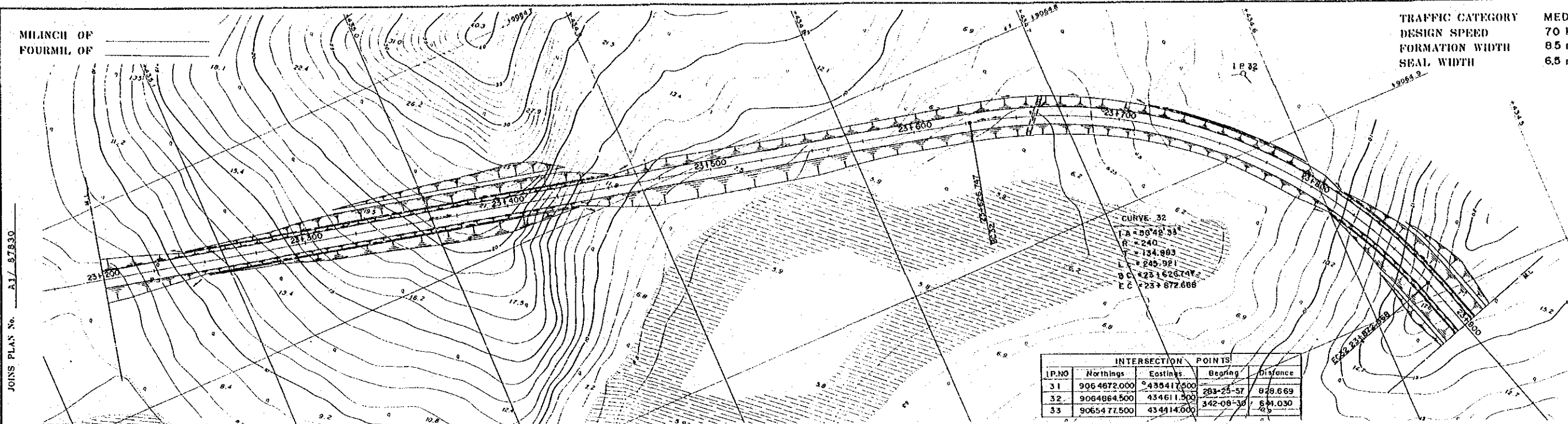
JICA		DESIGN		DRAWN		RECOMMENDED		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 22 + 500 — CH. 23 + 200	
Date		JAPAN INTERNATIONAL CO-OPERATION AGENCY		K. E.		H. K.		PROJECT No. S.C. 120-33-811/A	
VERTICAL DATUM: MEAN SEA LEVEL, IOKEA TIDE G.		Date: 26 Sep. 1989		CHECKED: [Signature]		APPROVED: 21.10.91		SHEET 72 OF 281	
HORIZONTAL DATUM: AZIMUTH DATA A.M.G. A1809		Principal		CHECKED: [Signature]		[Signature]		PROJECT No. S.C. 120-33-811/A	
SURVEY BOOK No. 8		Date		EXECUTIVE ENGINEER		SECRETARY		PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87830	

MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

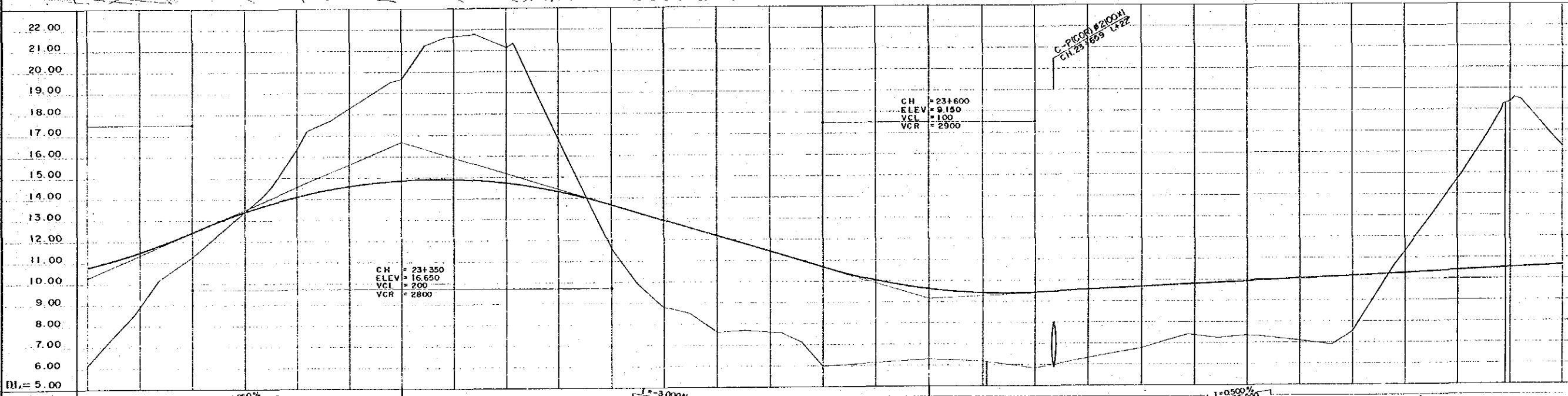
JOINS PLAN No. A1/ 87830

JOINS PLAN No. A1/ 87832



INTERSECTION POINTS

IP.NO	Northings	Eastings	Bearing	Distance
31	9054672.000	435417.500	283-25-57	849.669
32	9064864.500	434611.500	342-08-30	641.030
33	9065477.500	434414.000		



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

GRADIENT	L1 = 4.250% L = 2000.000		L2 = -3.000% L = 2500.000		L3 = 0.500% L = 550.000	
EWK. CUT QTS. m						
FILL						
DRAIN L.S. R.L.S.						
GRADE LEVELS	10.778	11.463	12.400	13.349	14.072	14.569
SURFACE LEVELS	6.11	8.90	11.25	13.36	16.26	18.25
CHAINAGE	232000	232250	232500	232750	233000	233250
CURVE DETAILS	R = 240					
SUPER ELEVATION DETAILS	RHS & LHS -3.0%					

OFFSET PEGS
DIST OFFSET R.L.

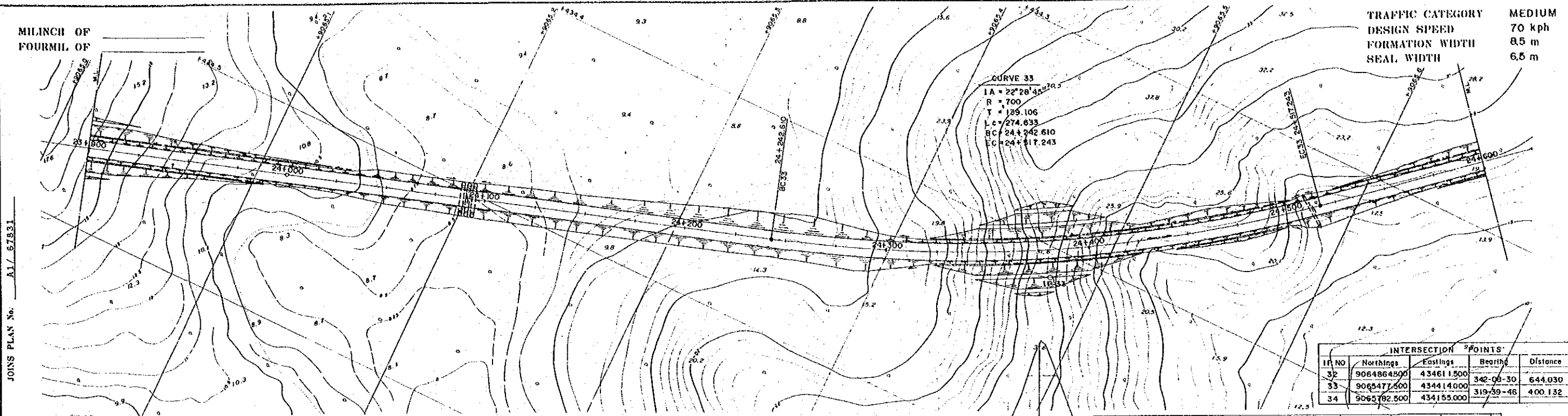
<p>REV AMENDMENTS</p>		<p>BY</p>	<p>APP'D</p>	<p>DATE</p>	<p>SURVEY JICA Date</p> <p>VERTICAL DATUM MEAN SEA LEVEL BOKKA TIDE G. HORIZONTAL DATUM AZIMUTH DATA A.M.G. 44009 SURVEY BOOK No. 5</p>	<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989</p>	<p>DRAWN K.E. CHECKED DESIGNED CHECKED</p>	<p>RECOMMENDED PROJECT ENGINEER APPROVED EXECUTIVE ENGINEER</p>	<p>SCALES HORIZ SECTION 1:1,000 VERTICAL SECTION 1:100</p>	<p>SHEET 73 OF 281</p>	<p>PROJECT No. S.C. 120-33-S11/A</p>	<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 23 + 200 — CH. 23 + 900</p>	<p>PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87831</p>
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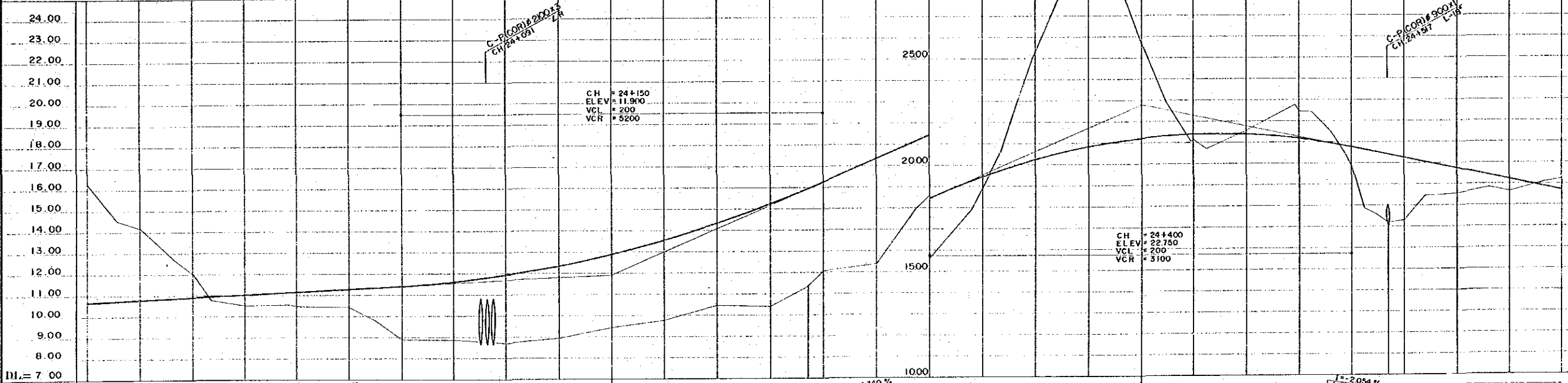
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87831

JOINS PLAN No. A1/ 87833



INTERSECTION POINTS				
IF NO	Northings	Eastings	Bearing	Distance
32	9064864.500	434611.500	342-08-30	644.030
33	9065477.500	434414.000	319-59-46	400.132
34	9065792.500	434155.000		



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

DI. = 7.00	GRADIENT	EWK. CUT	Q.TS.	m	FILL	DRAIN	L.H.S.	R.H.S.	GRADE LEVELS	SURFACE LEVELS	CHAINAGE	CURVE DETAILS	SUPER ELEVATION DETAILS
	1+0.500% L=350.000											R = ∞	1/205
	1+4.340% L=250.000											R = 700	RHS 4.0% LHS -4.0%
	1-2.054% L=650.000											R = ∞	1/205 RHS & LHS -3.0%

OFFSET PEGS

DIST	OFFSET	R.L.

<p>DESIGNED BY: <i>A. Megele</i></p> <p>CHECKED BY: <i>Z. K...</i></p>		<p>RECOMMENDED BY: <i>W. K...</i></p> <p>APPROVED BY: <i>J. ...</i></p>		<p>DATE: 25 Sep. 1989</p>	
<p>DESIGNED BY: <i>A. Megele</i></p> <p>CHECKED BY: <i>Z. K...</i></p>		<p>RECOMMENDED BY: <i>W. K...</i></p> <p>APPROVED BY: <i>J. ...</i></p>		<p>DATE: 25 Sep. 1989</p>	
<p>DESIGNED BY: <i>A. Megele</i></p> <p>CHECKED BY: <i>Z. K...</i></p>		<p>RECOMMENDED BY: <i>W. K...</i></p> <p>APPROVED BY: <i>J. ...</i></p>		<p>DATE: 25 Sep. 1989</p>	

PROJECT No. S.C. 120-33-811/A

SHEET 71 OF 281

DEPARTMENT OF WORKS

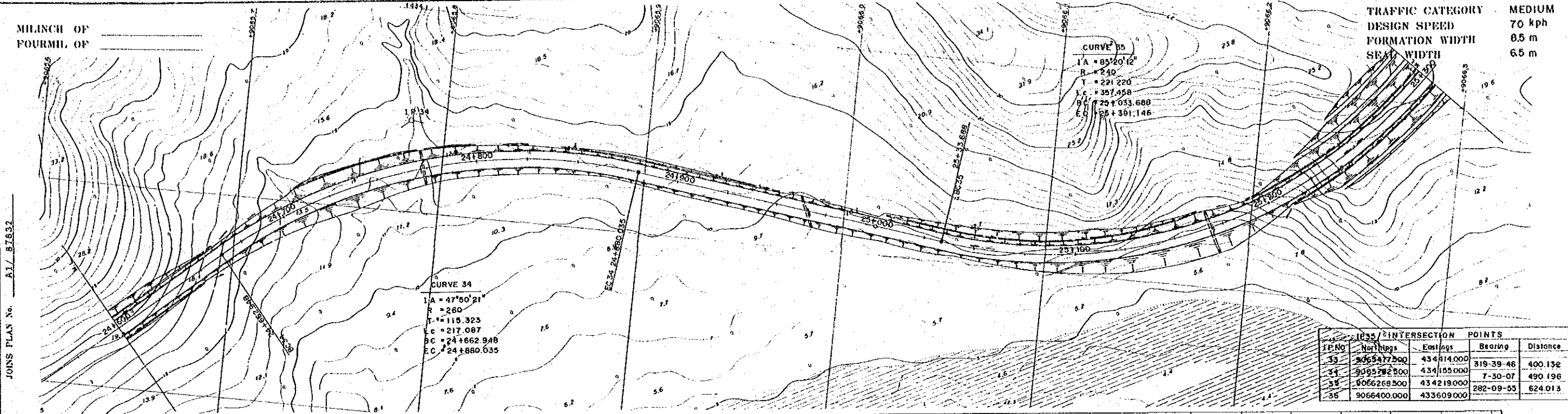
PAPUA NEW GUINEA

TRANS-ISLAND HIGHWAY (BEREINA-MALALAUCA SECTION)

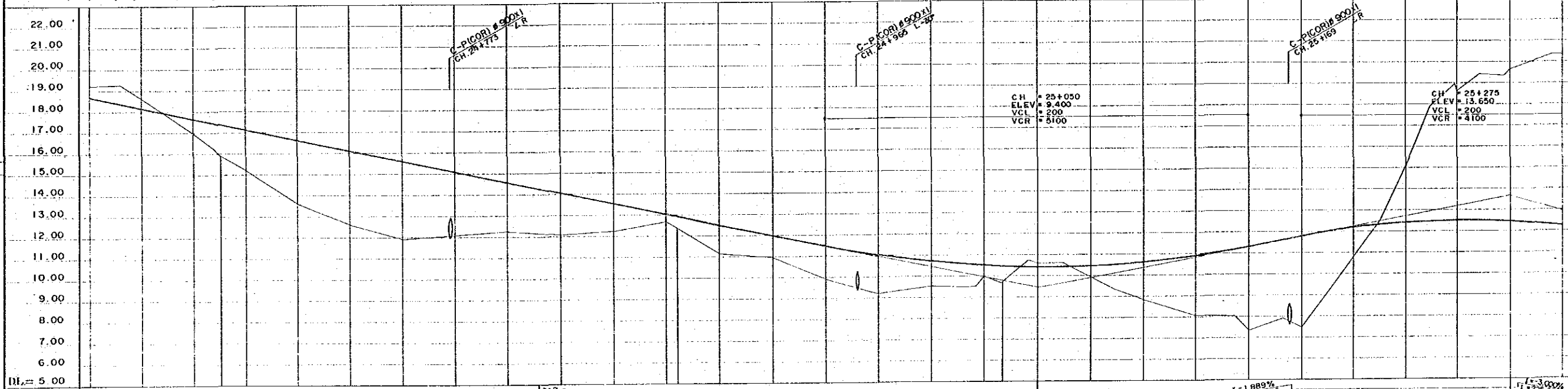
PLAN & LONGITUDINAL SECTION

CH. 23 + 900 — CH. 24 + 600

DRAWING No. A1/ 87832



IP NO.	Northings	Eastings	Bearing	Distance
33	9065477.500	434414.000	319-39-46	400.132
34	9065792.500	434185.000	7-30-07	490.196
35	9066268.500	434219.000	282-09-55	624.013
36	9066400.000	433609.000		



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

CHAINAGE	GRADE LEVELS	SURFACE LEVELS	DRAIN	GRADIENT
24600.00	18.642	19.19	L.R.S.	
24625.00	18.129	18.61	R.R.S.	
24650.00	17.615	18.09		
24675.00	17.102	17.57		
24700.00	16.588	17.05		
24725.00	16.075	16.54		
24750.00	15.562	16.03		
24775.00	15.049	15.52		
24800.00	14.535	15.01		
24825.00	14.021	14.50		
24850.00	13.508	13.99		
24875.00	12.994	13.48		
24900.00	12.481	12.97		
24925.00	11.967	12.46		
24950.00	11.454	11.95		
24975.00	10.941	11.44		
25000.00	10.428	10.93		
25025.00	9.915	10.42		
25050.00	9.402	9.91		
25075.00	8.889	9.40		
25100.00	8.376	8.89		
25125.00	7.863	8.38		
25150.00	7.350	7.87		
25175.00	6.837	7.36		
25200.00	6.324	6.85		
25225.00	5.811	6.34		
25250.00	5.298	5.83		
25275.00	4.785	5.32		
25300.00	4.272	4.81		

OFFSET PEGS		
DIST	OFFSET	R.L.

JICA SURVEY BOOK NOS VERTICAL DATUM: ORIGIN MEAN SEA LEVEL, TOKYO TIDE G. HORIZONTAL DATUM: ORIGIN AZIMUTH DATA A.M.G. A3609 SURVEY: 25 Sep. 1989			JAPAN INTERNATIONAL CO-OPERATION AGENCY DESIGN: J. H. ... DATE: 25 Sep. 1989			K.E. CHECKED: ... PROJECT ENGINEER DRAWN: ... CHECKED: ... EXECUTIVE ENGINEER			RECOMMENDED APPROVED: ... PRINCIPAL ENGINEER DATE: 24.10.89 SECRETARY			SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100			CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 24 + 600 — CH. 25 + 300 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87833		
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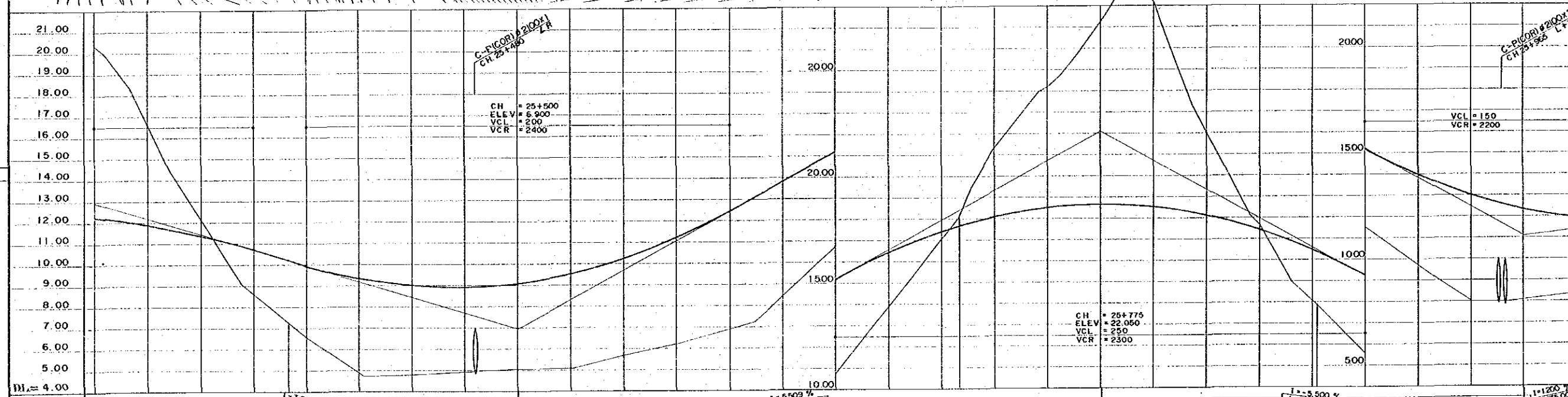
MILINCH OF
FOURMIL OF

JOINS PLAN No. A1/ 87833

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

CURVE 36
I A = 24°10'46"
R = 400
T = 85.678
Lc = 168.804
B C = 25+708.281
E C = 25+877.065

IP No	Northing	Eastings	Bearing	Distance
32	9066268.000	434219.000		
34	9066400.000	433609.000	282-09-55	624.013
37	9066307.000	483172.000	257-59-09	446.786



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS

DIST	OFFSET	R.L.

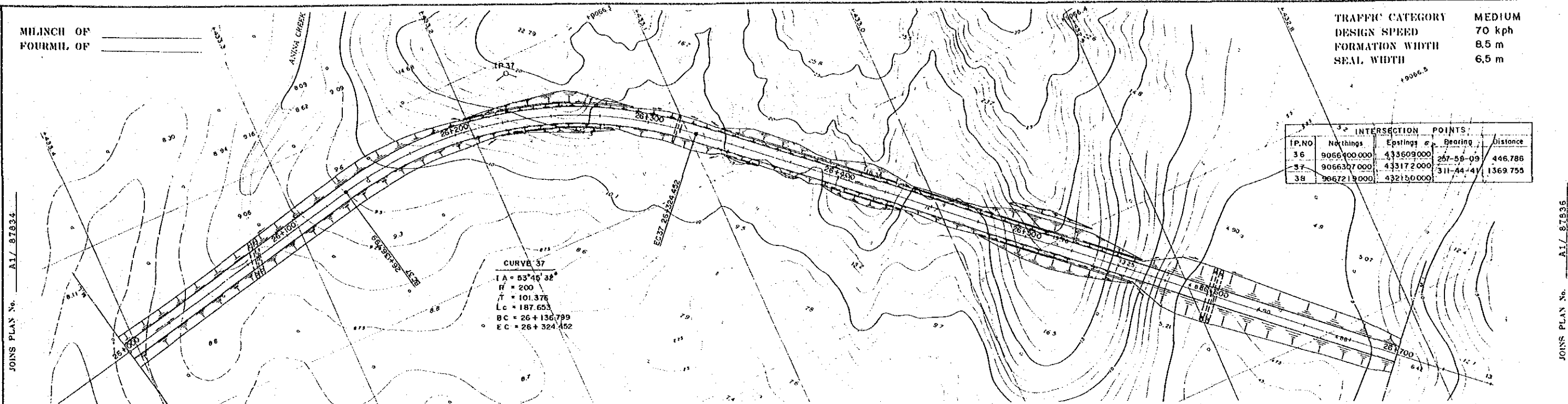
GRADIENT	L = 3.000 % L = 225.000		L = 5.509 % L = 275.000		L = 3.500 % L = 200.000		L = 1.200 % L = 475.000																														
EWK. CUT																																					
QTS. m ³																																					
FILL																																					
DRAIN L.S. R.H.S.																																					
GRADE LEVELS	12.215	11.844	11.324	10.650	10.166	9.900	9.285	8.932	8.647	8.027	9.474	10.186	11.163	12.409	13.786	15.164	16.403	17.368	17.626	18.087	18.471	18.610	18.473	18.061	17.375	16.412	15.321	14.041	12.575	11.500	10.175	8.940	7.983	7.306	6.351	5.906	
SURFACE LEVELS	20.31	16.57	12.04	6.48	7.25	6.53	4.82	4.75	4.68	5.01	5.04	5.65	6.18	6.89	8.42	10.71	13.96	17.02	18.10	21.26	24.11	27.23	28.11	28.60	28.11	26.60	24.04	21.86	19.86	18.50	16.68	14.01	11.68	9.68	7.98	6.51	5.35
CHAINAGE	25300.00	25325.00	25350.00	25375.00	25391.46	25400.00	25425.00	25450.00	25475.00	25500.00	25525.00	25550.00	25575.00	25600.00	25625.00	25650.00	25675.00	25700.00	25708.281	25725.00	25750.00	25775.00	25800.00	25825.00	25850.00	25875.00	25900.00	25925.00	25950.00	25975.00	26000.00						
CURVE DETAILS	R = 240		R = 8		R = 400		R = ∞																														
SUPER ELEVATION DETAILS	RHS 8.0% LHS -8.0%		RHS & LHS -3.0%		RHS 6.0% LHS -6.0%		RHS & LHS -3.0%																														

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL, TOKYO TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AD99 SURVEY BOOK No.	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY J. Yamashiro Date 25 Sep. 1989	DRAWN K.E. CHECKED DESIGNED A. Majala CHECKED Z. Kantana	RECOMMENDED PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER 24.10.89 SECRETARY	SCALES 0 10 20 30 40 50 60 70 80 90 100m HORIZ SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10m VERTICAL SECTION 1:100	SHEET 76 OF 281 PROJECT No. S.C. 120-33-814/A DEPARTMENT OF WORKS P.A.P.U.A. NEW GUINEA DRAWING No. A1/ 87834
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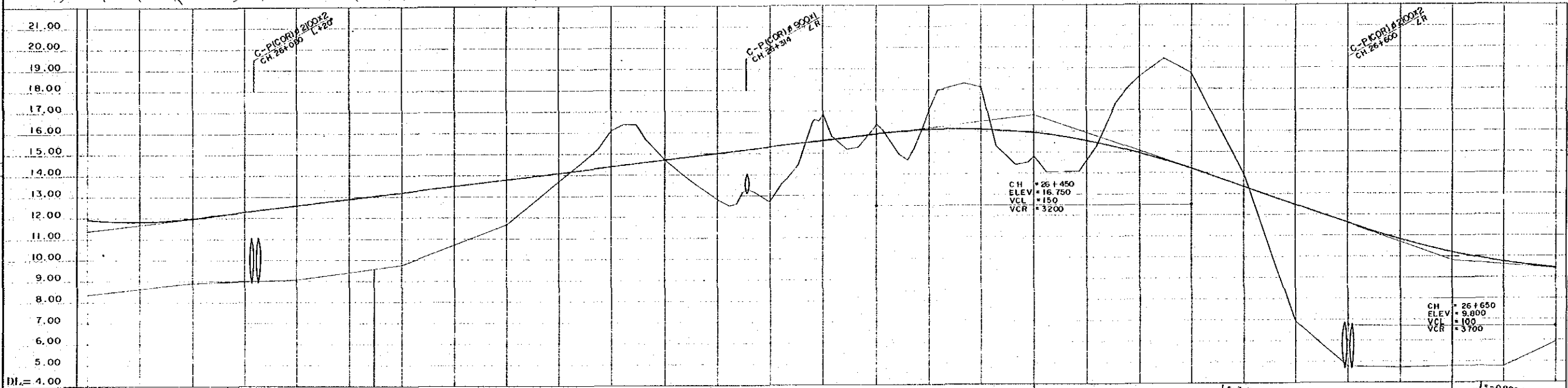
JOINS PLAN No. A1/ 87833

MINOR OF
FOURTH OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m



IP.NO.	Northing	Easting	Bearing	Distance
36	9066400.000	4336090.000	267-58-09	446.786
37	9066307.000	4331720.000	311-44-41	1369.755
38	9066729.000	4321300.000		



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

CH.	STATION	ELEVATION	CURVE	
			RHS	LHS
26000.00	8.35	11.908		
26025.00	8.63	11.790		
26050.00	8.90	11.950		
26075.00	8.99	12.250		
26100.00	9.07	12.550		
26125.00	9.40	12.850		
26150.00	9.56	12.980		
26175.00	9.76	13.150		
26200.00	10.69	13.450		
26225.00	11.60	13.750		
26250.00	13.64	14.050		
26275.00	15.00	14.350		
26300.00	14.69	14.650		
26325.00	12.80	14.950		
26350.00	12.67	15.245		
26375.00	12.66	15.540		
26400.00	16.80	15.850		
26425.00	16.35	16.150		
26450.00	17.01	16.450		
26475.00	18.03	16.750		
26500.00	14.60	17.050		
26525.00	14.65	17.350		
26550.00	18.60	17.650		
26575.00	13.96	17.950		
26600.00	6.93	18.250		
26625.00	4.77	18.550		
26650.00	4.80	18.850		
26675.00	4.77	19.150		
26700.00	5.95	19.450		

OFFSET PEGS

DIST	OFFSET	R.L.

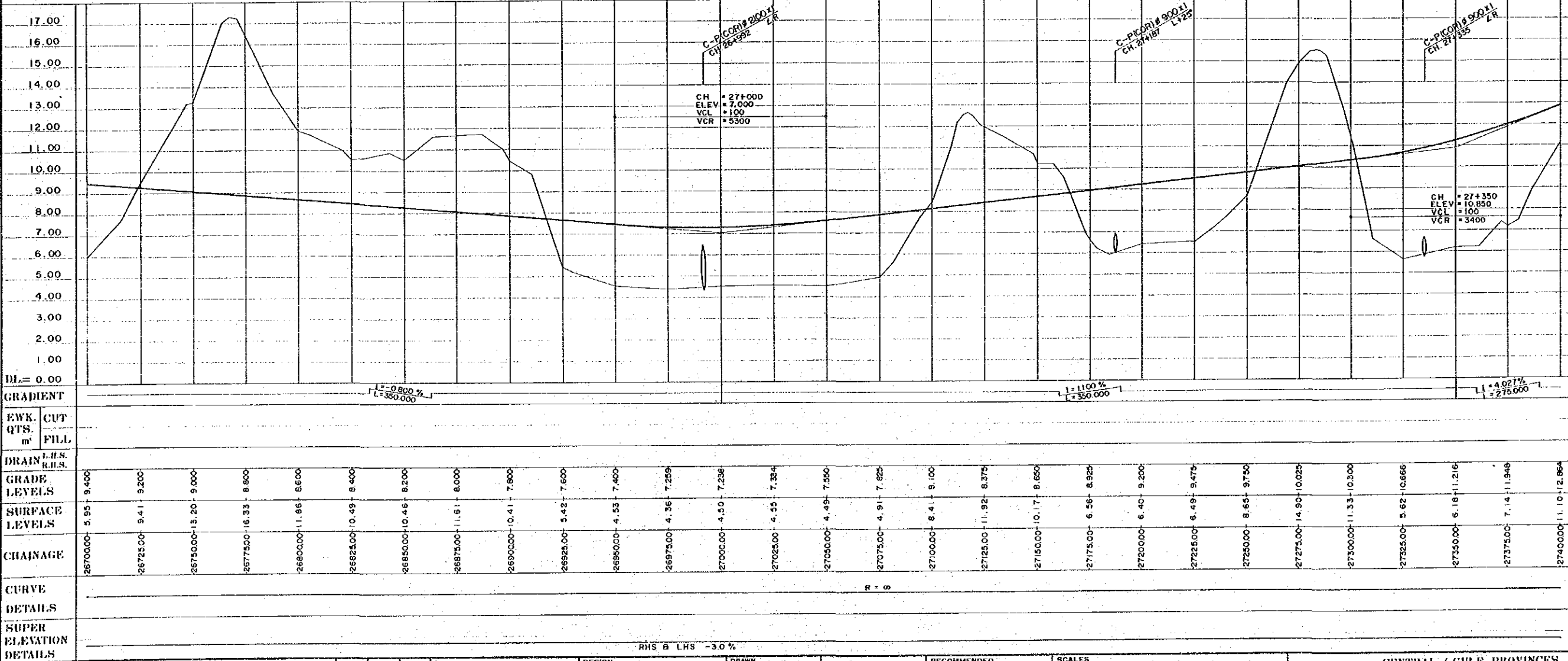
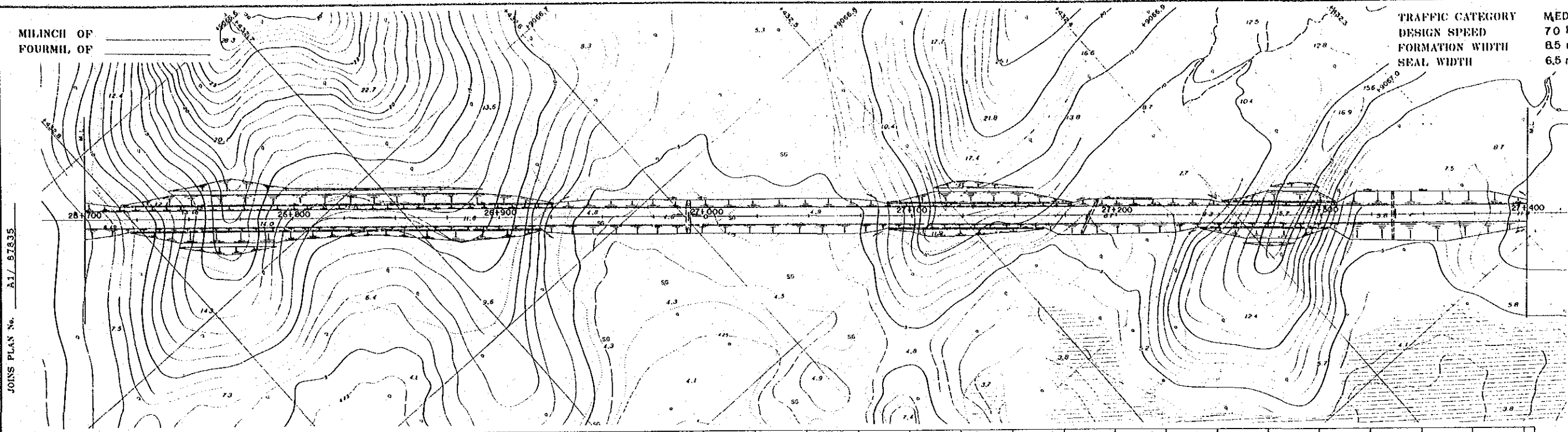
JICA JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989			K.E. PROJECT ENGINEER EXECUTIVE ENGINEER			APPROVED SECRETARY			CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUCA SECTION) PLAN & LONGITUDINAL SECTION CH. 26 + 000 — CH. 26 + 700			
SURVEY DATA VERTICAL DATUM: MEAN SEA LEVEL, TOKIA TIDE G. HORIZONTAL DATUM: AUSTRALIAN MAPPING GRID (A.M.G.) SURVEY BOOK NOS.			DESIGNER: K.E. CHECKED: [Signature] DESIGNED: [Signature]			SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100			PROJECT No. S.C.120-33-811/A SHEET 77 OF 281			

MILIMETER OF
FOURTH OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87835

JOINS PLAN No. A1/ 87837

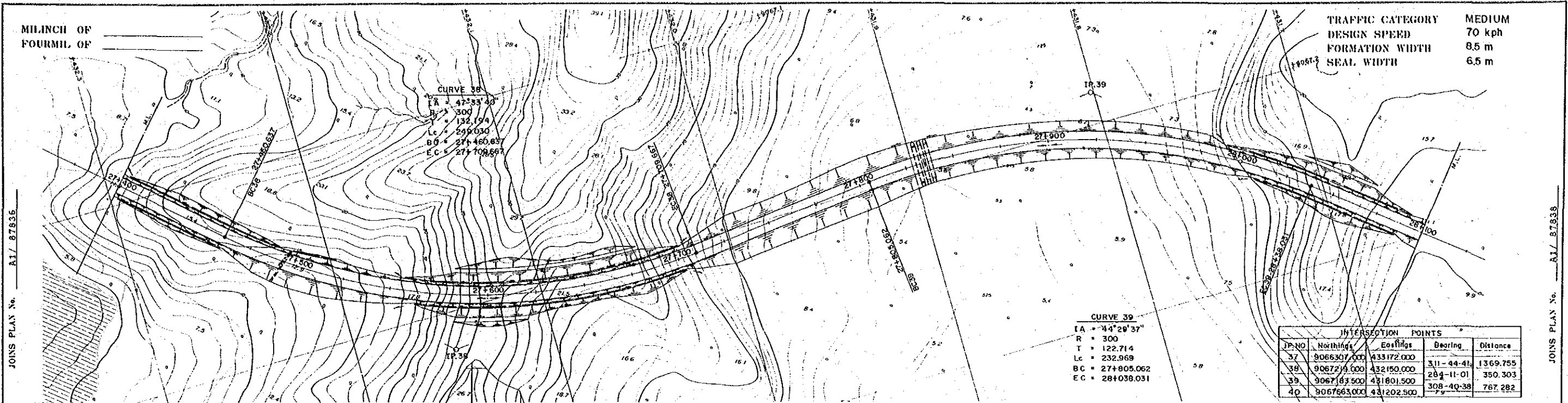


NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS

DIST	OFFSET	R.L.

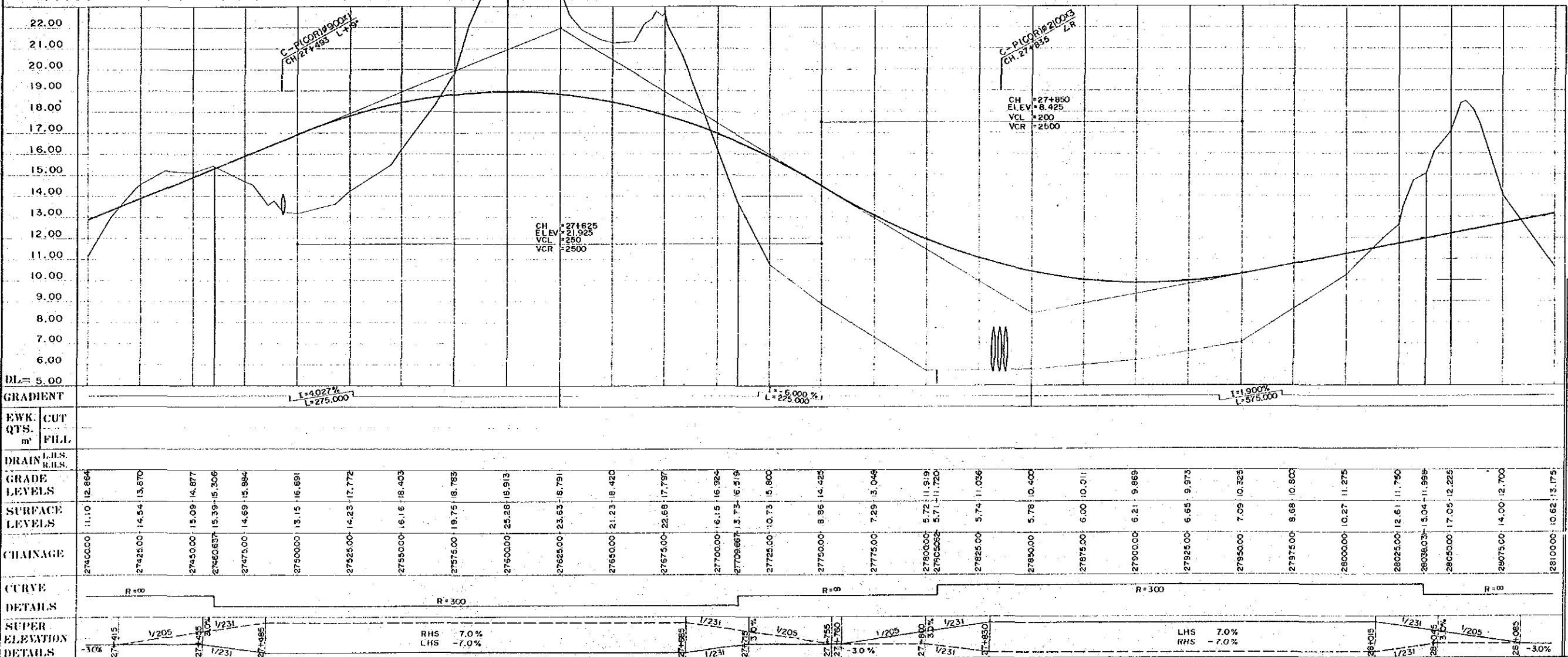
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>REV</th> <th>AMENDMENTS</th> <th>BY</th> <th>APP'D</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	AMENDMENTS	BY	APP'D	DATE						<p>SURVEY</p> <p>JICA</p> <p>VERTICAL DATUM: MEAN SEA LEVEL TOKYO TIDE G. ORIGIN</p> <p>HORIZONTAL DATUM: AZIMUTH DATA A.M.G. AAD03 ORIGIN</p> <p>SURVEY BOOK NO. 5</p>	<p>DESIGN</p> <p>JAPAN INTERNATIONAL CO-OPERATION AGENCY</p> <p>Principal: J. H. ...</p> <p>Date: 25 Sep. 1989</p>	<p>DRAWN</p> <p>K.E.</p> <p>Checked: ...</p> <p>DESIGNED</p> <p>A. Magalla</p> <p>Checked: ...</p>	<p>RECOMMENDED</p> <p>PROJECT ENGINEER: ...</p> <p>PRINCIPAL ENGINEER: ...</p> <p>APPROVED</p> <p>24.10.89</p> <p>EXECUTIVE ENGINEER: ...</p> <p>SECRETARY: ...</p>	<p>SCALES</p> <p>HORIZ. SECTION 1:1,000</p> <p>VERTICAL SECTION 1:100</p>	<p>CENTRAL / GULF PROVINCES</p> <p>TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION)</p> <p>PLAN & LONGITUDINAL SECTION</p> <p>CH. 26 + 700 — CH. 27 + 400</p> <p>PAPUA NEW GUINEA</p> <p>DEPARTMENT OF WORKS</p> <p>DRAWING No. A1/ 87836</p>
REV	AMENDMENTS	BY	APP'D	DATE													



TRAFFIC CATEGORY MEDIUM
 DESIGN SPEED 70 kph
 FORMATION WIDTH 8.5 m
 SEAL WIDTH 6.5 m

CURVE 39
 IA = 14°29'37"
 R = 300
 T = 122.714
 Lc = 232.969
 BC = 27+805.062
 EC = 28+038.031

JP NO	Northings	Eastings	Bearing	Distance
37	9066307.000	433172.000	311-44-41	1369.755
38	9067215.000	432150.000	204-11-01	350.303
39	9067163.500	431601.500	308-40-38	767.282
40	9067663.000	431202.500		



NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
 DIST OFFSET R.L.

CH	ELEV	VCL	VCR
274000	12.864		
274250	14.54		
274500	15.09		
27460637	15.39	250	2500
2747300	14.69		
2750000	13.15		
2742500	14.23		
2745000	16.16		
2757500	19.75		
2750000	25.68		
2762500	23.63		
2765000	21.23		
2767500	22.68		
2770000	16.15		
27708667	13.75	250	2500
2772500	10.73		
2775000	8.96		
2777500	7.29		
2780000	5.72		
27805065	5.71		
2782500	5.74		
2785000	5.78		
2787500	6.00		
2790000	6.21		
2792500	6.65		
2795000	7.09		
2797500	8.68		
2800000	10.27		
2802500	12.61		
28038037	5.04		
2805000	17.65		
2807500	14.00		
2810000	10.62		

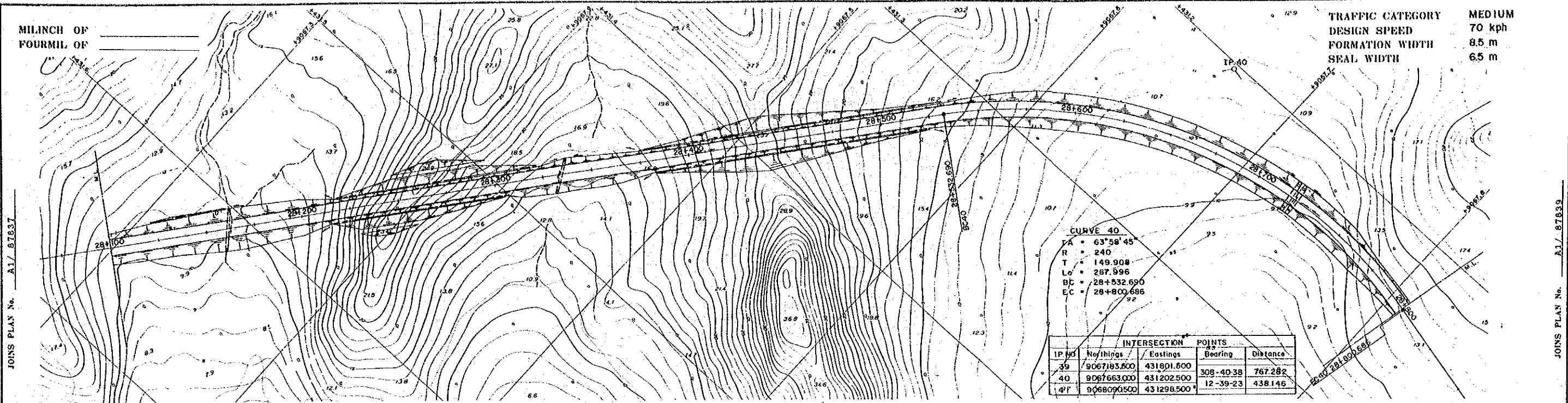
SURVEY JICA VERTICAL DATUM MEAN SEA LEVEL (OREA TIDE G) HORIZONTAL DATUM AZIMUTH DATA A.M.G. A.A009 SURVEY BOOK N9.9		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY 25 Sep. 1989		DRAWN K.E. CHECKED DESIGNED CHECKED		RECOMMENDED PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER SECRETARY		SCALES HORIZ SECTION 1:1000 VERTICAL SECTION 1:100		CENTRAL GULF PROVINCES TRANS-ISLAND HIGHWAY OBERINA-MALALUA SECTION PLAN & LONGITUDINAL SECTION CH. 27+400 - CH. 28+100 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87837	
REV.	AMENDMENTS	BY	APP'D	DATE				SHEET 79 OF 281	PROJECT No. S.C.120-33-811/A		

MILINCH OF
FOURMIL. OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87837

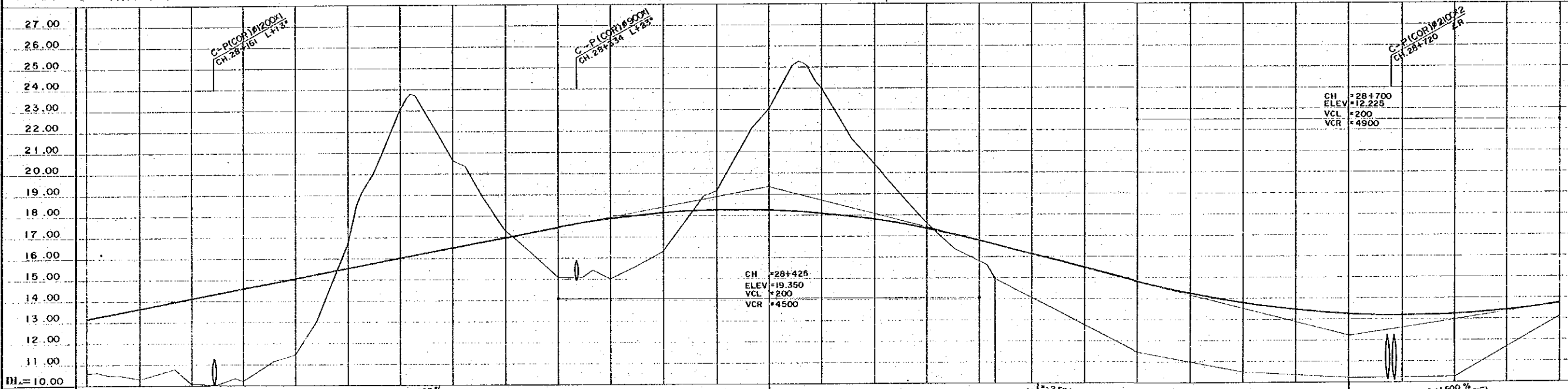
JOINS PLAN No. A1/ 87839



CURVE 40

PA = 63°58'45"
R = 240
T = 149.908
Lo = 287.996
BC = 28+532.690
EC = 28+800.686

IP NO	No/Things	Eastings	Bearing	Distance
39	9067183.500	431801.500	308-40-38	767.282
40	90671663.000	431202.500	12-39-23	438.146
41	9068090.500	431298.500		

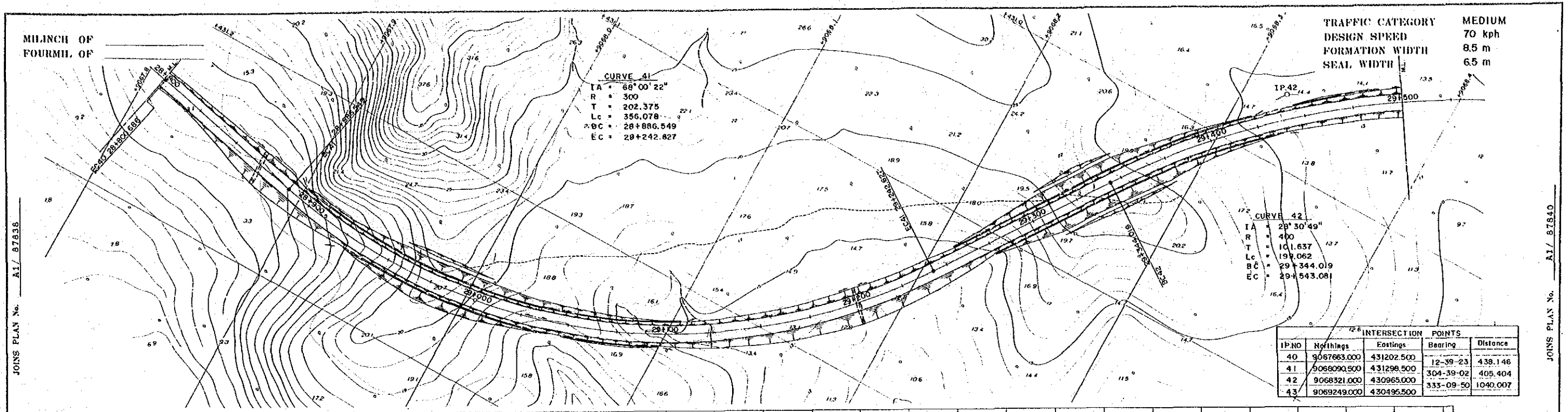


NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9906 at central meridian 147° East Longitude applies

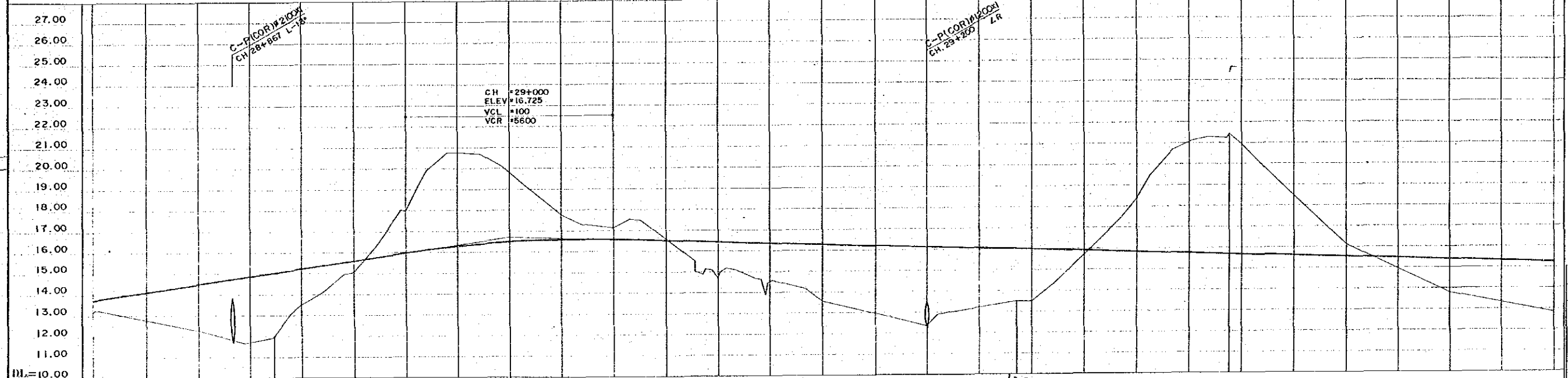
GRADIENT	L = 1900% L = 575.000		L = 2581% L = 275.000		L = 1500% L = 300.000	
EWK. CUT						
QTS. m						
FILL						
DRAIN L.S. R.H.S.						
GRADE LEVELS	28100.00	28125.00	28150.00	28175.00	28200.00	28225.00
SURFACE LEVELS	10.82	10.32	10.10	10.22	11.47	15.075
CHAINAGE	28100.00	28125.00	28150.00	28175.00	28200.00	28225.00
CURVE DETAILS	R = ∞			R = 240		
SUPER ELEVATION DETAILS	RHS & LHS -3.0%			LHS 8.0% RHS -8.0%		

OFFSET PEGS
DIST OFFSET R.I.

<p>REV. AMENDMENTS</p>		<p>BY APP'D DATE</p>	<p>SURVEY JICA Date</p> <p>VERTICAL DATUM ORIGIN MEAN SEA LEVEL (OREA TIDE G.) HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA089 SURVEY BOOK NO.8</p>	<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989</p>	<p>DRAWN K.E. CHECKED DESIGNED CHECKED</p>	<p>RECOMMENDED PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER Date 24.10.89 EXECUTIVE ENGINEER</p>	<p>SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100</p>	<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION (CH. 28 + 100 — CH. 28 + 800)</p>	<p>PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87838</p>
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INTERSECTION POINTS			
IP NO	Northings	Eastings	Distance
40	9067663.000	431202.500	12-39-23 439.146
41	9068090.500	431296.500	304-39-02 405.404
42	9068321.000	430965.000	333-09-50 1040.007
43	9069249.000	430495.500	



NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

CH	GRADE LEVELS	SURFACE LEVELS	CHAINAGE	CURVE DETAILS	SUPER ELEVATION DETAILS
28900.00	13.10	13.21	28900.00	R=3	3.0%
28925.00	12.76	14.10	28925.00		
28950.00	12.27	14.475	28950.00		
28975.00	11.73	14.850	28975.00		
28996.549	12.01	15.023	28996.549		
29000.00	13.48	15.225	29000.00		
29025.00	15.05	15.600	29025.00		
29050.00	17.97	15.975	29050.00		
29075.00	20.77	16.294	29075.00		
29096.549	19.82	16.500	29096.549		
29100.00	17.78	16.594	29100.00		
29125.00	17.12	16.575	29125.00		
29150.00	16.57	16.500	29150.00		
29175.00	14.71	16.425	29175.00		
29200.00	14.53	16.350	29200.00		
29225.00	13.56	16.275	29225.00		
29250.00	12.95	16.200	29250.00		
29275.00	12.35	16.125	29275.00		
29300.00	13.21	16.050	29300.00		
29325.00	13.50	15.975	29325.00		
29350.00	13.50	15.975	29350.00		
29375.00	15.73	15.900	29375.00		
29400.00	18.38	15.825	29400.00		
29425.00	21.07	15.750	29425.00		
29444.019	21.42	15.693	29444.019		
29450.00	20.91	15.675	29450.00		
29475.00	18.47	15.600	29475.00		
29500.00	16.09	15.525	29500.00		
29525.00	14.93	15.450	29525.00		
29550.00	13.78	15.375	29550.00		
29575.00	13.30	15.300	29575.00		
29600.00	12.83	15.225	29600.00		

OFFSET PEGS		
DIST	OFFSET	R.I.

SURVEY JICA Date: _____ VERTICAL DATUM: HIGHWAY MEAN SEA LEVEL BOKA TIDE G HORIZONTAL DATUM: CHINAS AZIMUTH DATA A.M.G. AA003 SURVEY BOOK NOS: _____	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY J. Y. H. H. H. Date: 25 Sep. 1989	DRAWN: K. E. CHECKED: _____ DESIGNED: A. M. H. H. CHECKED: _____	RECOMMENDED: _____ PROJECT ENGINEER: _____ APPROVED: _____ EXECUTIVE ENGINEER: _____	SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100	SHEET: 81 OF 281 PROJECT No.: S.C. 120-33-814/A DEPARTMENT OF WORKS DRAWING No.: A1/ 87839
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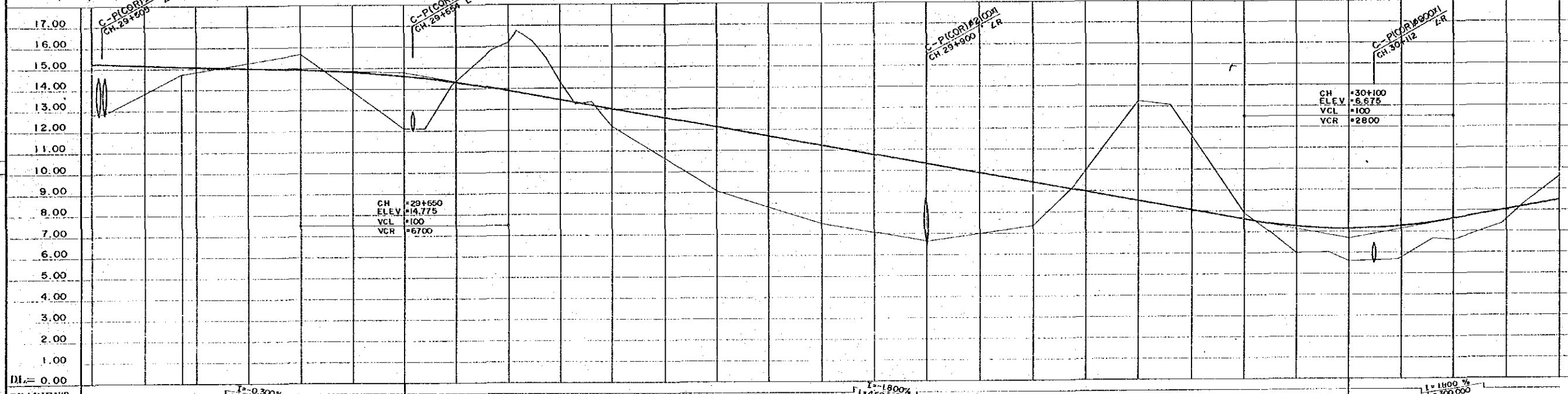
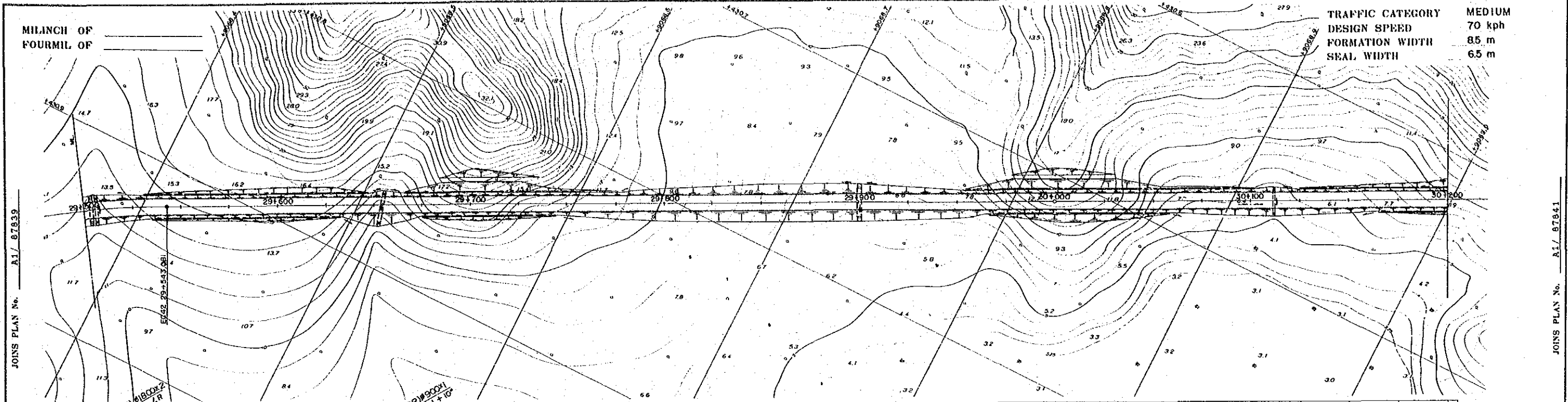
REV.	AMENDMENTS	BY	APP'D	DATE

MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87839

JOINS PLAN No. A1/ 87841



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East. Longitude applies

CHAINAGE	GRADE LEVELS	SURFACE LEVELS
29500.00	12.93	15.225
29525.00	13.81	15.150
29550.00	14.74	15.095
29575.00	14.84	15.075
29600.00	15.26	15.000
29625.00	15.88	14.925
29650.00	13.89	14.805
29675.00	12.10	14.598
29700.00	14.33	14.276
29725.00	16.20	13.875
29750.00	14.24	13.425
29775.00	12.14	12.975
29800.00	10.59	12.525
29825.00	9.04	12.075
29850.00	8.26	11.625
29875.00	7.49	11.175
29900.00	7.04	10.725
29925.00	6.61	10.275
29950.00	6.97	9.825
29975.00	7.33	9.375
30000.00	9.98	8.925
30025.00	13.23	8.475
30050.00	11.53	8.025
30075.00	7.87	7.575
30100.00	6.00	7.288
30125.00	5.59	7.125
30150.00	5.77	7.238
30175.00	6.56	7.575
30200.00	7.54	8.025
30225.00	9.55	8.475

OFFSET PEGS
DIST OFFSET R.I.

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DESCRIPTION	DATE				<p>BY: [Signature]</p> <p>APP'D: [Signature]</p> <p>DATE: 25 Sep. 1989</p>	<p>SURVEY: JICA</p> <p>DESIGN: JAPAN INTERNATIONAL CO-OPERATION AGENCY</p> <p>DRAWN: K.E.</p> <p>CHECKED: [Signature]</p> <p>DESIGNED: [Signature]</p> <p>CHECKED: [Signature]</p>	<p>RECOMMENDED: [Signature]</p> <p>APPROVED: [Signature]</p> <p>EXECUTIVE ENGINEER: [Signature]</p> <p>SECRETARY: [Signature]</p>	<p>SCALES:</p> <p>HORIZ. SECTION 1:1,000</p> <p>VERTICAL SECTION 1:100</p>	<p>CENTRAL / GULF PROVINCES</p> <p>TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION)</p> <p>PLAN & LONGITUDINAL SECTION</p> <p>CH. 29 + 500 — CH.30 + 200</p> <p>PAPUA NEW GUINEA</p> <p>DEPARTMENT OF WORKS</p> <p>DRAWING No. A1/ 87840</p>
NO.	DESCRIPTION	DATE										

MILINCH OF
FOURMIL OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

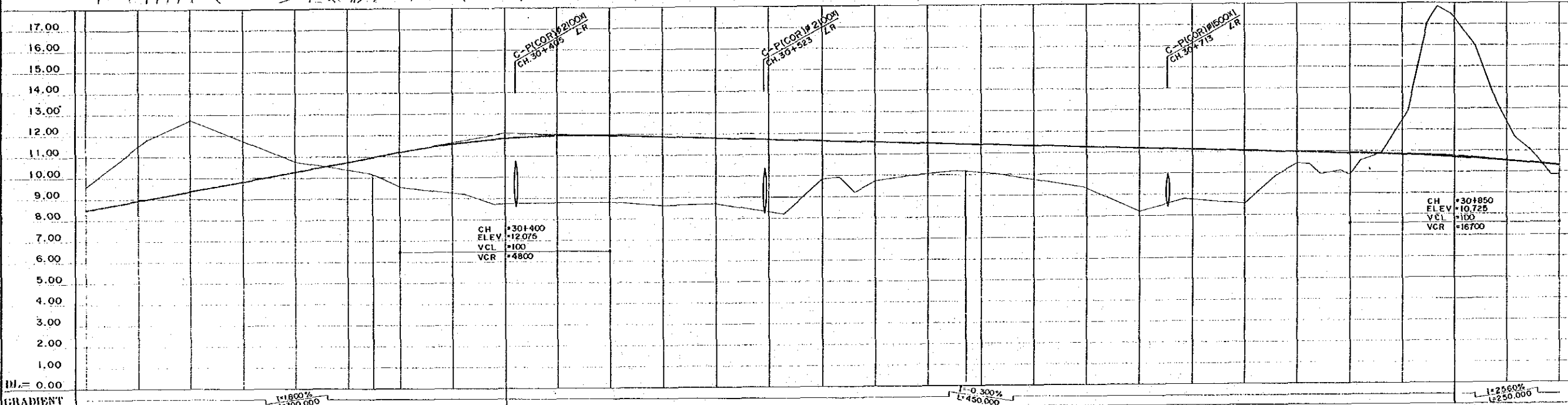
JOINS PLAN No. AI/ 87840

JOINS PLAN No. AI/ 87842

CONTROL STATIONS		
ST. NO.	Northings	Eastings
17	9071697.385	426420.295
18	9068394.365	430442.978
19	9067896.129	431113.485

INTERSECTION POINTS				
IP. NO.	Northings	Eastings	Bearing	Distance
42	9068321.000	430965.000		
43	9069249.000	430495.500	333-09-50	1040.007
44	9069881.500	430554.500	5-19-45	635.246

CURVE 43
IA = 32°09'55"
R = 500
T = 144.153
Lc = 280.695
BC = 30+337.297
EC = 30+617.992



- NOTES:
- Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 - Scale factor of 0.9996 at central meridian 147° East Longitude applies

GRADIENT	+1.800% L=300.000		-0.300% L=450.000		-2.560% L=250.000	
CH. CUT QTS. m						
FILL						
DRAIN L.S. R.L.S.						
GRADE LEVELS	8.475	8.925	9.375	9.825	10.275	10.725
SURFACE LEVELS	9.55	11.45	12.71	14.06	15.41	16.76
CHAINAGE	3020000	3025000	3030000	3035000	3040000	3045000
CURVE DETAILS	R=∞					
SUPER ELEVATION DETAILS	RHS & LHS -3.0%					

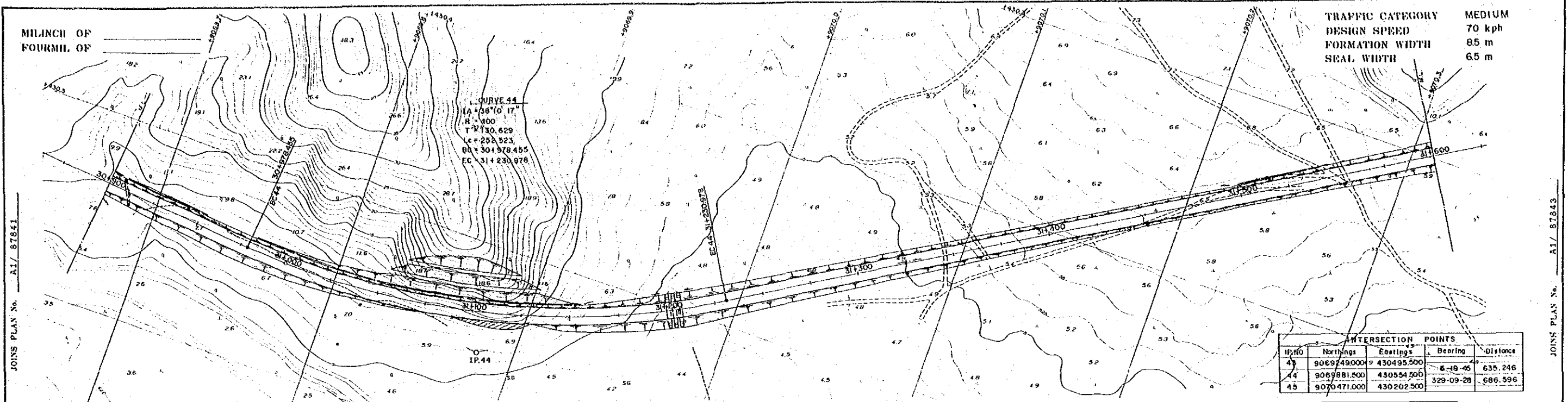
OFFSET PEGS

DIST	OFFSET	R.L.

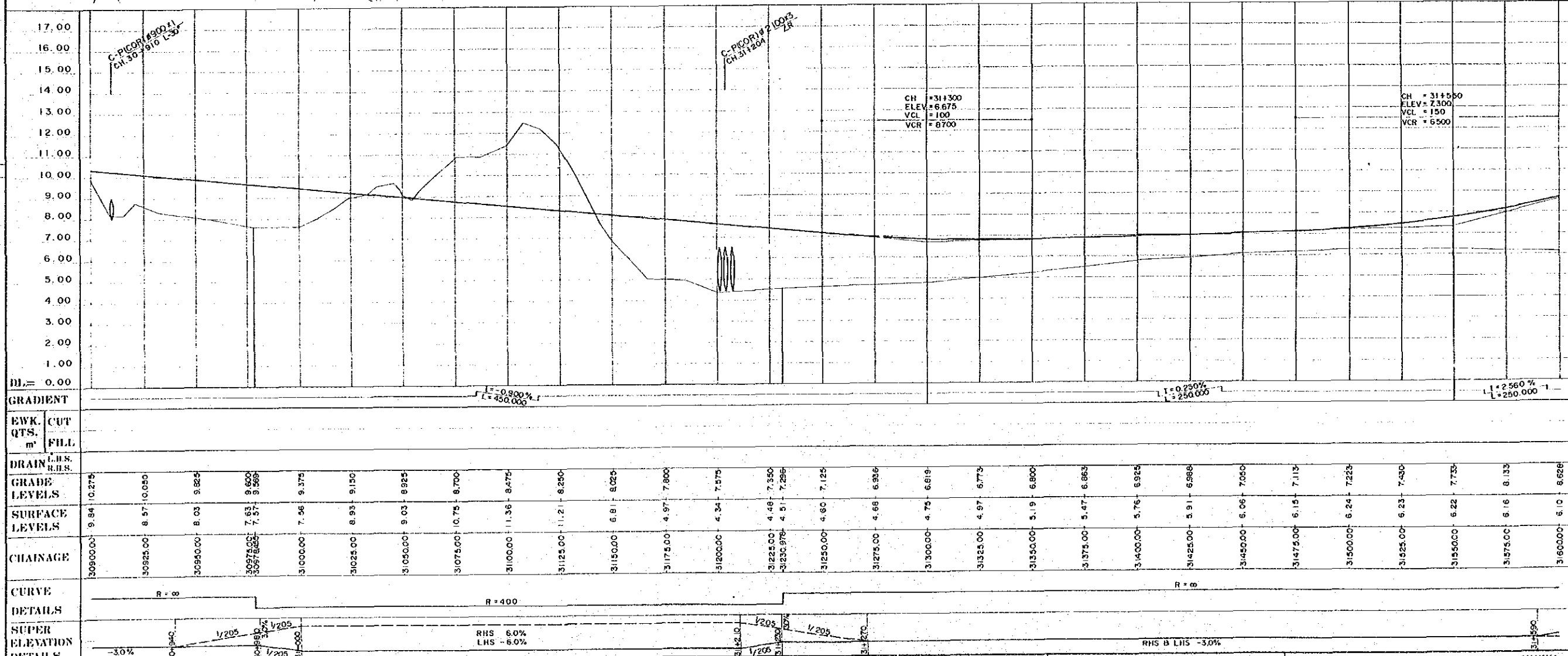
<p>REV. AMENDMENTS</p>			<p>BY APP'D DATE</p>			<p>SURVEY JICA VERTICAL DATUM: OMBAN MEAN SEA LEVEL (OKEA TIDE G.) HORIZONTAL DATUM: OMBAN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NO. 9</p>			<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Principal: J. Jantus Date: 25 Sep. 1989</p>			<p>DRAWN: K.E. CHECKED: [Signature] DESIGNED: [Signature] CHECKED: [Signature]</p>			<p>RECOMMENDED: [Signature] APPROVED: [Signature] 21.10.89 SECRETARY: [Signature]</p>			<p>SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100</p>			<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 30 + 200 — CH. 30 + 900 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. AI/ 87841</p>					
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MILINCH OF
FOURMIL. OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 85 m
SEAL WIDTH 65 m



IP No	Northing	Eastings	Bearing	Distance
43	9069249.000	430495.500	5-18-45	635.246
44	9069881.800	430554.500		
45	9070471.000	430202.500	329-09-20	686.596



NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS

DIST	OFFSET	R.L.

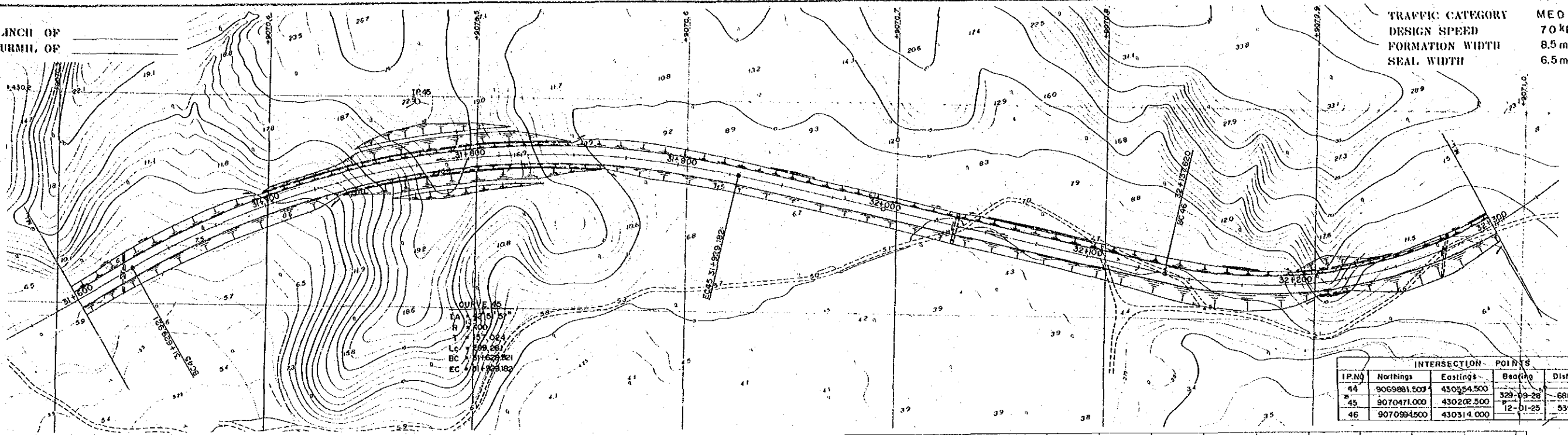
<p>SCALE</p> <p>HORIZ SECTION 1:1,000</p> <p>VERTICAL SECTION 1:100</p>		<p>CENTRAL / GULF PROVINCES</p> <p>TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION)</p> <p>PLAN & LONGITUDINAL SECTION</p> <p>CH. 30 + 900 (CH. 31 + 600)</p>	
<p>DESIGNED BY: J. H. HALL</p> <p>CHECKED BY: J. H. HALL</p>	<p>PROJECT ENGINEER: J. H. HALL</p> <p>PRINCIPAL ENGINEER: H. H. HALL</p>	<p>APPROVED BY: J. H. HALL</p> <p>DATE: 25.10.89</p>	<p>SECRETARY: J. H. HALL</p>
<p>DATE: 25 Sep. 1989</p>	<p>PROJECT No. S.C. 120-33-811/A</p>	<p>SHEET 81 OF 281</p>	<p>DEPARTMENT OF WORKS</p>

MILNCH OF
FOURTH, OF

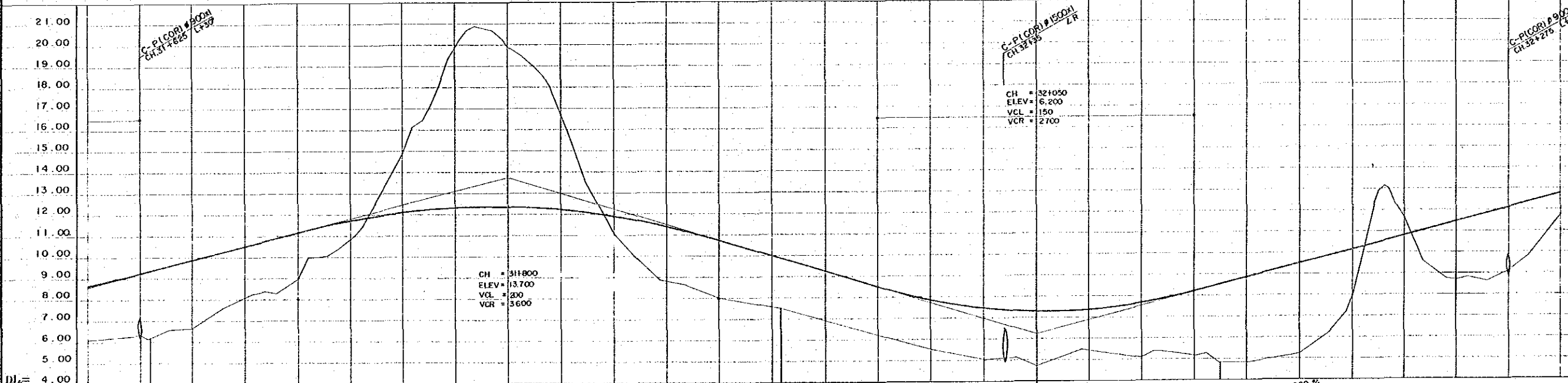
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 81842

JOINS PLAN No. A1/ 81844



INTERSECTION POINTS			
IP No	Northing	Eastings	Beating
44	9069881.609	430554.500	329-09-28
45	9070471.000	430202.500	12-01-29
46	9070994.500	430314.000	



GRADIENT	L ₁ = 2.550 %		L ₂ = 250.000		L ₃ = 3.000 %		L ₄ = 250.000		L ₅ = 2.500 %		L ₆ = 350.000																					
	CH	ELEV	VCL	VCR	CH	ELEV	VCL	VCR	CH	ELEV	VCL	VCR																				
EWK. CUT																																
QTS. m' FILL.																																
GRADE LEVELS	8.629	9.222	9.346	9.960	10.500	11.140	11.683	12.073	12.279	12.310	12.168	11.853	11.365	10.700	9.920	8.450	7.817	7.417	7.250	7.317	7.617	8.150	8.478	8.800	9.450	10.100	10.750	11.400	12.050	12.700		
SURFACE LEVELS	6.10	6.31	6.15	6.92	8.06	8.91	10.61	11.72	12.78	13.83	14.72	15.80	16.78	17.96	18.87	19.18	19.49	19.50	19.49	19.40	19.31	19.15	18.90	18.50	18.00	17.40	16.70	16.00	15.20	14.40	13.60	12.80
CHAINAGE	31600.00	31625.00	31625.321	31650.00	31675.00	31700.00	31725.00	31750.00	31775.00	31800.00	31825.00	31850.00	31875.00	31900.00	31925.00	31950.00	31975.00	32000.00	32025.00	32050.00	32075.00	32100.00	32125.00	32150.00	32175.00	32200.00	32225.00	32250.00	32275.00	32300.00	32325.00	32350.00
CURVE DETAILS	R = 400		R = ∞		R = ∞		R = 220		R = ∞		R = ∞		R = ∞		R = ∞		R = ∞		R = ∞		R = ∞		R = ∞		R = ∞		R = ∞		R = ∞		R = ∞	
SUPER ELEVATION DETAILS	LHS 6.0% RHS -6.0%		LHS 6.0% RHS -6.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%		RHS & LHS -3.0%	

NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS		
DIST	OFFSET	R.L.

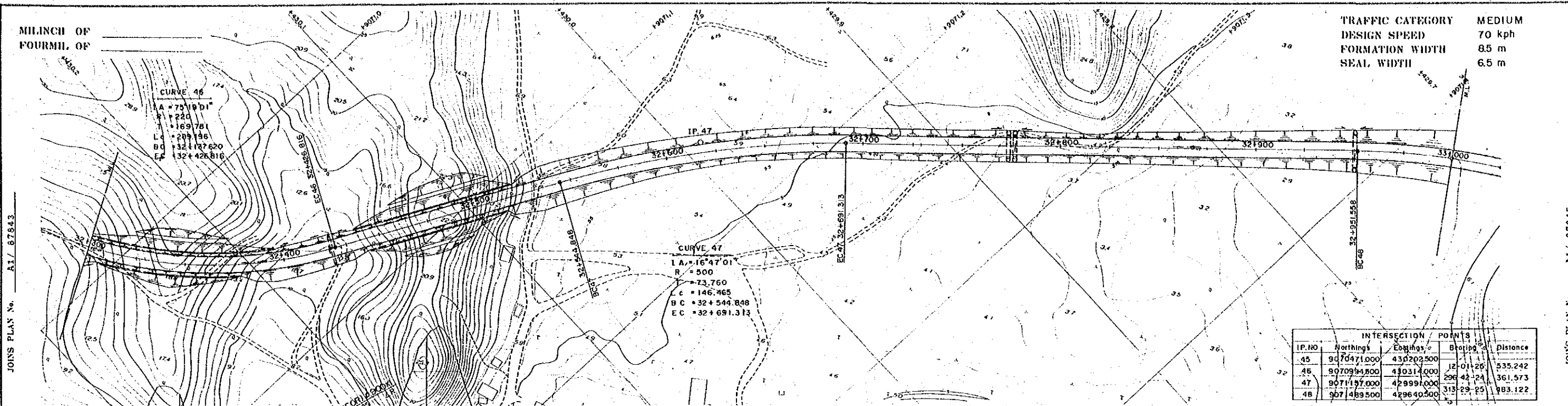
DESIGN: JICA, JAPAN INTERNATIONAL CO-OPERATION AGENCY
 DRAWN: K.E.
 CHECKED: [Signature]
 DESIGNED: [Signature]
 CHECKED: [Signature]
 RECOMMENDED: [Signature]
 APPROVED: [Signature]
 SECRETARY: [Signature]
 SCALES: HORIZ. SECTION 1:1,000; VERTICAL SECTION 1:100
 SHEET 85 OF 281
 PROJECT No. S.C. 120-33-814/A
 CENTRAL / GULF PROVINCES
 TRANS-ISLAND HIGHWAY (BEREINA-MALALATA SECTION)
 PLAN & LONGITUDINAL SECTION
 CH. 31 + 600 — CH. 32 + 300
 PAPER: NEW GUINEA
 DEPARTMENT OF WORKS
 DRAWING No. A1/ 87843

MILNCH OF FOURTH OF

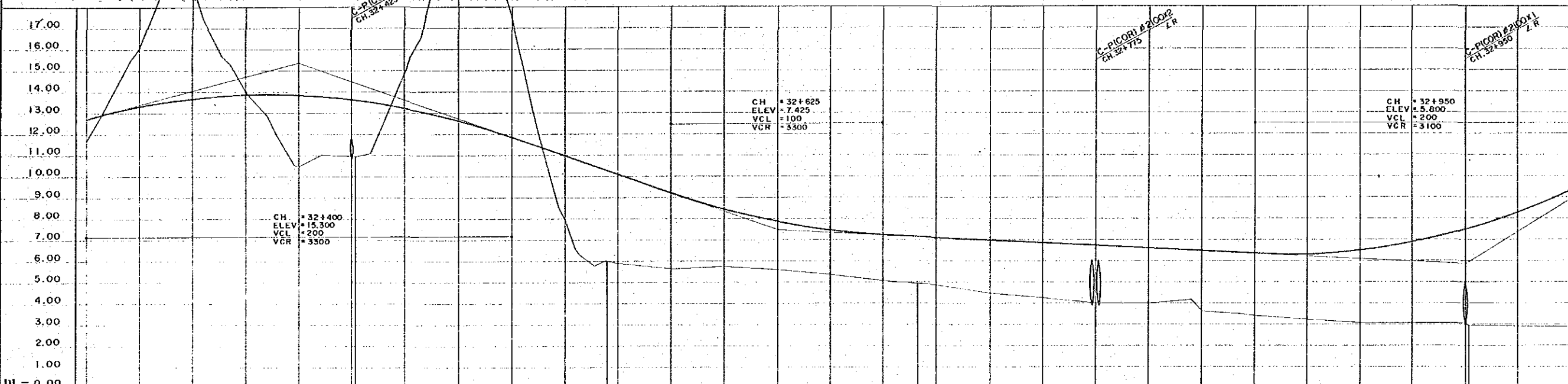
TRAFFIC CATEGORY MEDIUM
 DESIGN SPEED 70 kph
 FORMATION WIDTH 8.5 m
 SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 87843

JOINS PLAN No. A1/ 87845



IP. NO	Northings	Eastings	Bearing	Distance
45	907047.000	430203.500	12-01-26	335.242
46	907094.800	430314.000	42-42-24	361.573
47	9071157.000	429991.000	313-29-25	183.122
48	9071489.500	429640.500		



NOTES:
 1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
 2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS

DIST	OFFSET	R.I.

GRADIENT	1:2.600% L=356.000		1:3.500% L=225.000		1:0.500% L=325.000		1:5.000% L=200.000																										
EWK. CUT																																	
QTS. m ³																																	
FILL																																	
DRAIN																																	
R.H.S.																																	
L.H.S.																																	
GRADE LEVELS	12.700	13.255	13.619	13.792	13.775	13.567	13.545	13.169	12.980	11.800	10.925	9.230	8.394	7.800	7.394	7.175	7.095	7.050	6.925	6.800	6.675	6.450	6.420	6.200	6.200	6.277	6.456	6.839	7.425	7.425	8.214	9.206	
SURFACE LEVELS	11.62	13.90	13.87	13.96	14.43	13.67	13.545	14.75	14.79	17.45	7.90	5.96	5.71	5.54	5.31	5.01	4.88	4.82	4.42	4.22	3.96	3.86	3.96	3.97	3.98	3.98	3.21	3.03	3.03	3.03	3.03	2.69	2.84
CHAINAGE	32300.00	32325.00	32350.00	32375.00	32400.00	32425.00	32450.00	32475.00	32500.00	32525.00	32550.00	32575.00	32600.00	32625.00	32650.00	32675.00	32700.00	32725.00	32750.00	32775.00	32800.00	32825.00	32850.00	32875.00	32900.00	32925.00	32950.00	32975.00	33000.00				
CURVE DETAILS	R=220		R=∞		R=500		R=∞		R=360																								
SUPER ELEVATION DETAILS	RHS 8.0% LHS -8.0%		V/215		V/205		3.0%		V/205		V/231		V/231		V/205		RHS 5.0% LHS -5.0%		RHS & LHS -3.0%		V/205		V/205		LHS 6.0% RHS -6.0%								

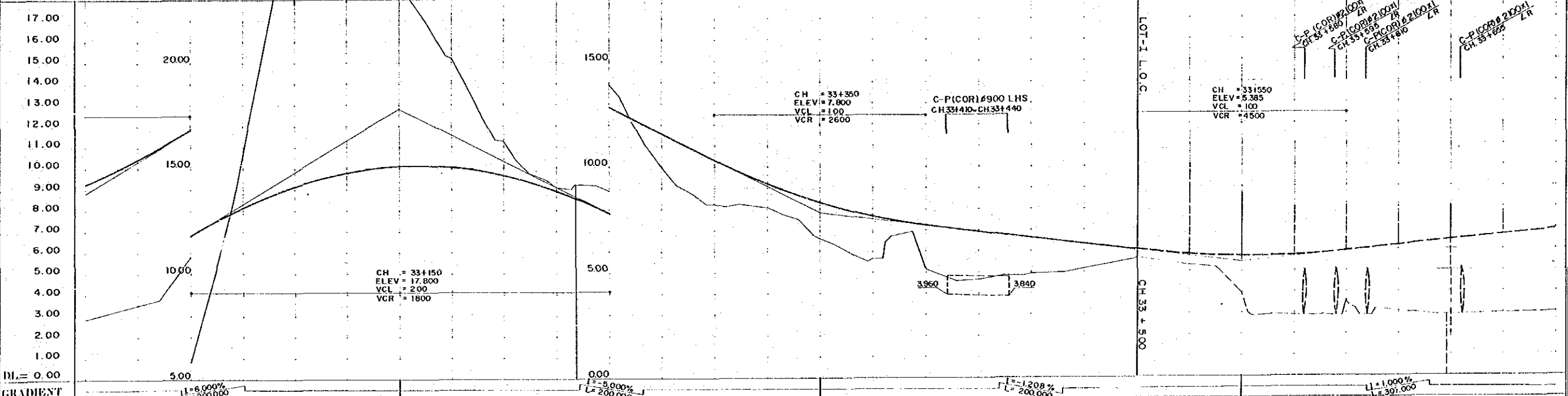
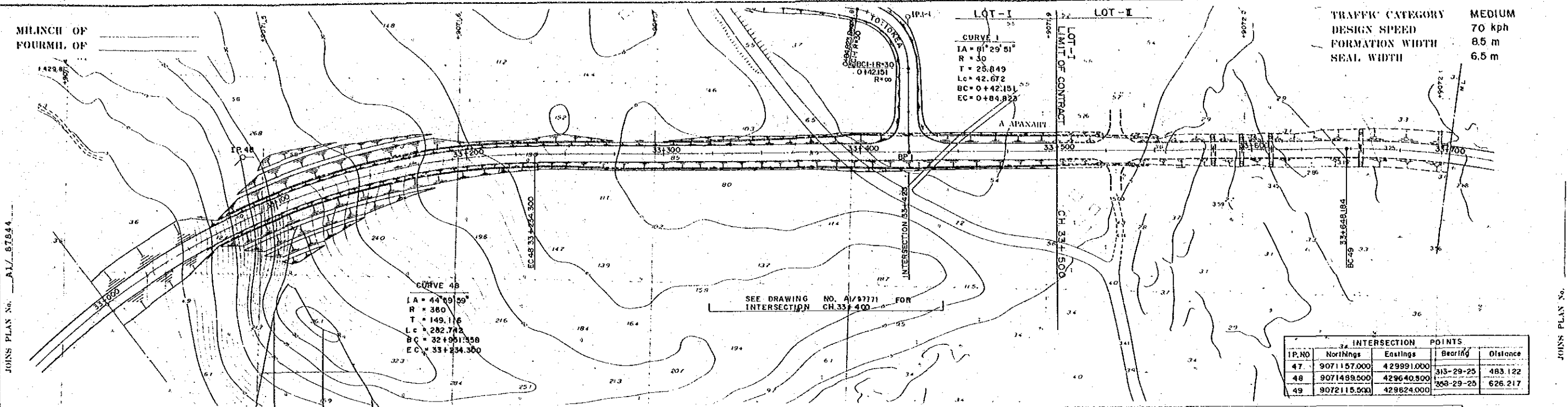
SURVEY JICA Date		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Principal J. Haku Date 25 Sep. 1999		DRAWN K.E. Checked Designed P. Masaka Checked P. Masaka		RECOMMENDED PROJECT ENGINEER APPROVED Principal Engineer Checked P. Masaka Secretary		SCALES HORIZ SECTION 1:1,000 VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 32 + 300 — CH. 33 + 000 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87844							
REV	AMENDMENTS	BY	APP'D	DATE				SHEET 56 OF 281	PROJECT No. S.C. 120-33-814/A								

MILNCH OF
FOURTH OF

TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A/L 8784

JOINS PLAN No.



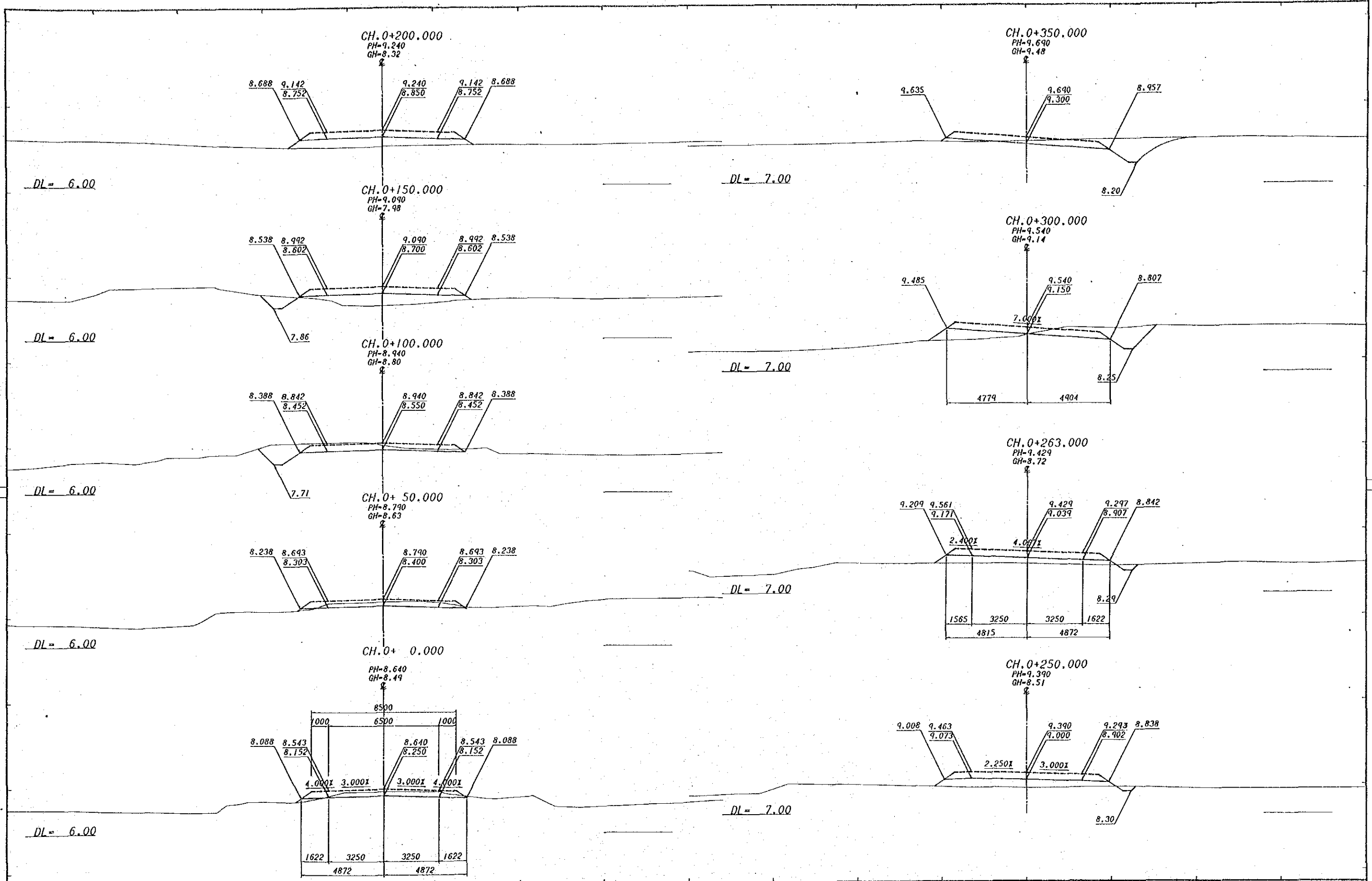
NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

DI = 0.00	GRADIENT	HW. CUT	FILL	GRADES	SURFACE	CHAINAGE	CURVE	DETAILS
17.00								
16.00								
15.00								
14.00								
13.00								
12.00								
11.00								
10.00								
9.00								
8.00								
7.00								
6.00								
5.00								
4.00								
3.00								
2.00								
1.00								
0.00								

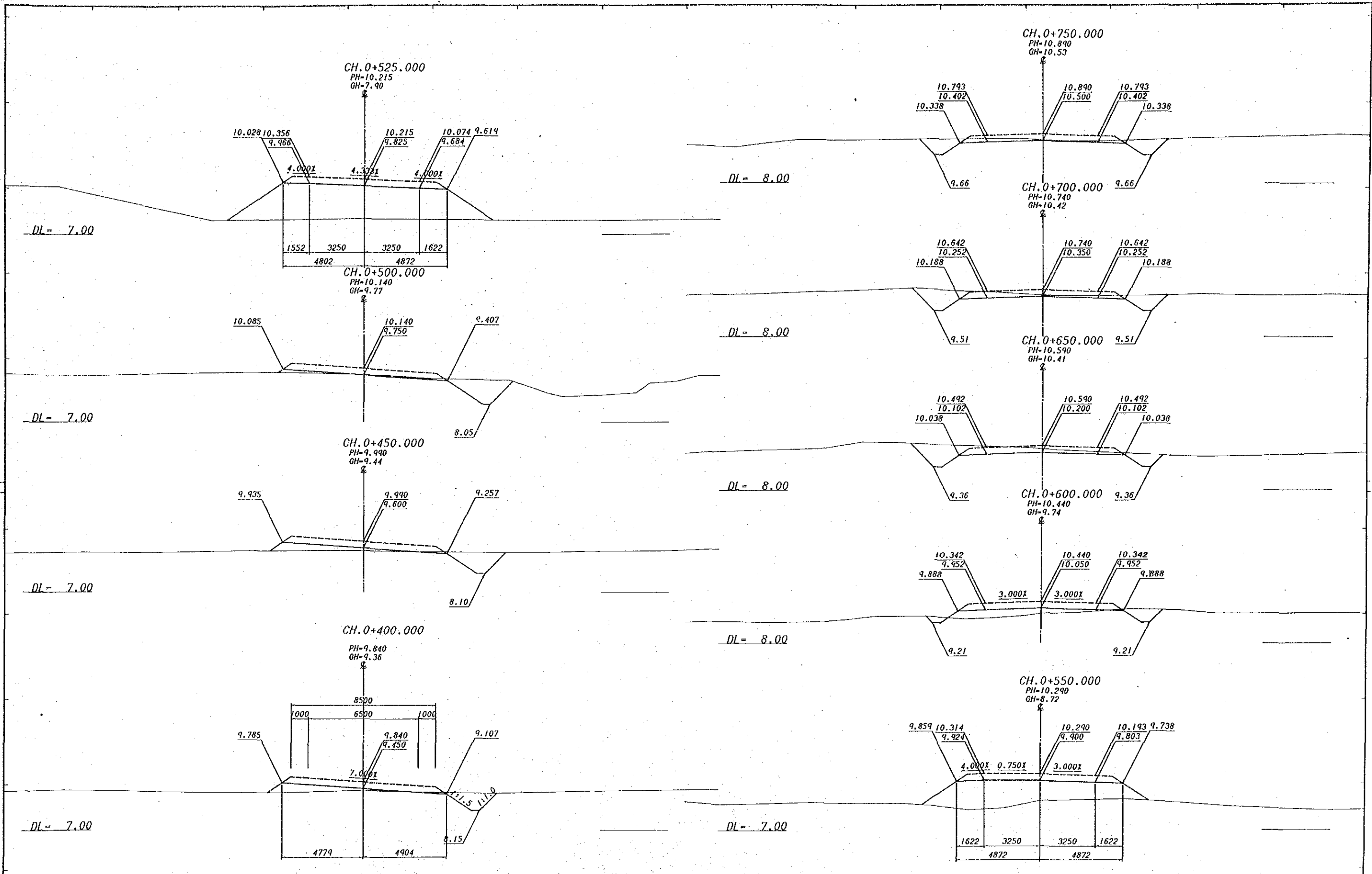
OFFSET PEGS

DIST	OFFSET	R.L.

<p>REV AMENDMENTS</p>		<p>BY</p>	<p>APP'D</p>	<p>DATE</p>	<p>SURVEY</p> <p>JICA</p> <p>Date</p> <p>VERTICAL DATUM</p> <p>MEAN SEA LEVEL TOKYO THE G</p> <p>HORIZONTAL DATUM</p> <p>AZIMUTH DATA A.M.G. 1989</p> <p>SURVEY BOOK No. S</p>	<p>DESIGN</p> <p>JAPAN INTERNATIONAL CO-OPERATION AGENCY</p> <p>Date</p> <p>35 Sep. 1989</p>	<p>DRAWN</p> <p>K.E.</p> <p>CHECKED</p> <p>DESIGNED</p> <p>A. J. M. S.</p> <p>CHECKED</p> <p>7. Kambani</p>	<p>RECOMMENDED</p> <p>PROJECT ENGINEER</p> <p>APPROVED</p> <p>24.11.89</p> <p>EXECUTIVE ENGINEER</p>	<p>SCALES</p> <p>HORIZ. SECTION 1:1000</p> <p>VERTICAL SECTION 1:100</p>	<p>SHEET</p> <p>87 OF 281</p> <p>PROJECT No</p> <p>S.C. 120-33-811/A</p>	<p>CENTRAL GULF PROVINCES</p> <p>TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION)</p> <p>PLAN & LONGITUDINAL SECTION</p> <p>CH. 33+000 CH. 33+500</p> <p>PAPUA NEW GUINEA</p> <p>DEPARTMENT OF WORKS</p> <p>DRAWING No</p> <p>A1/ 87845</p>
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SURVEY JICA Date		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Principal: J. H. H. Date: 25 Sep. 1989		DRAWN K.E. Checked: [Signature] Designed: A. Magaki Checked: [Signature]		RECOMMENDED [Signature] PROJECT ENGINEER [Signature] EXECUTIVE ENGINEER		SCALES HORIZONTAL & VERTICAL m. 1 : 100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION CROSS SECTIONS CH. 0 + 0 — CH. 0 + 350	
VERTICAL DATUM MEAN SEA LEVEL		HORIZONTAL DATUM		SURVEY BOOK No.		APPROVED [Signature] PRINCIPAL ENGINEER		PROJECT No. S.C.120-33-814/A		PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87846	
REV.	AMENDMENTS	BY	APP'D	DATE			SHEET 88 OF 281				



JICA Date: _____ VERTICAL DATUM: MEAN SEA LEVEL HORIZONTAL DATUM: _____ SURVEY BOOK No. _____		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY J. H. H. H. H. 25 Sep. 1989 Date: _____		DRAWN K. E. CHECKED: [Signature] DESIGNED: [Signature] CHECKED: [Signature]		RECOMMENDED [Signature] PROJECT ENGINEER APPROVED [Signature] PRINCIPAL ENGINEER [Signature] EXECUTIVE ENGINEER		SCALES HORIZONTAL & VERTICAL m. 1 : 100 SHEET 89 OF 281 PROJECT No. S.C.120-33-814/A		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION CROSS SECTIONS CH. 0 + 400 — CH. 0 + 750 PAPA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 87847	
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