

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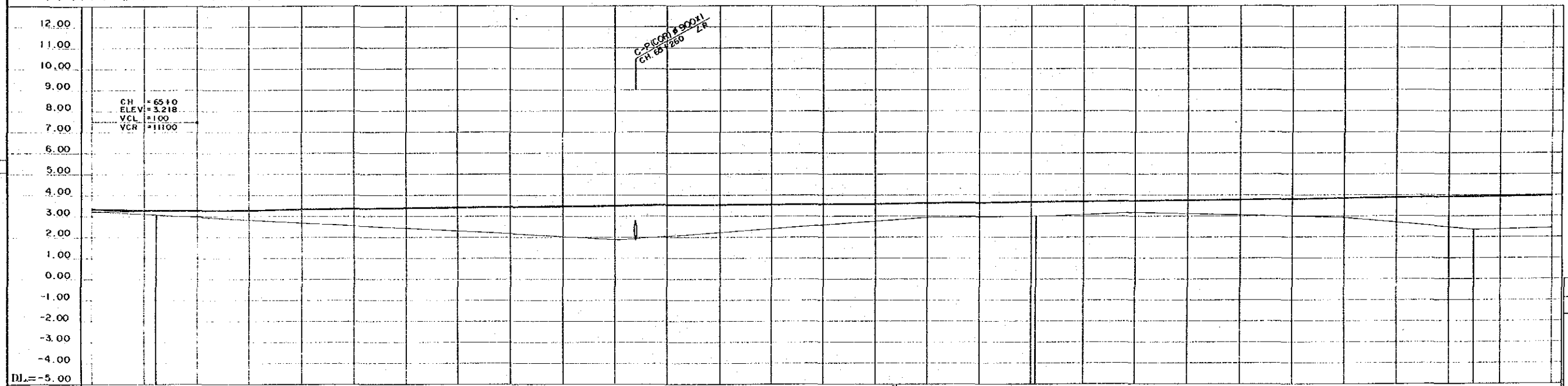
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

CURVE 77
A = 34° 29' 22"
R = 700
T = 217.286
Lc = 421.369
BC = 65 + 030.655
EC = 65 + 452.024

INTERSECTION POINTS				
IP NO	Northings	Eastings	Bearing	Distance
76	9094035500	413115000	320-00-41	801.387
77	9094659500	412600000		
78	9094841000	411946500	285-31-19	678.236

JOINS PLAN No. A1/ 88124

JOINS PLAN No. A1/ 88125



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

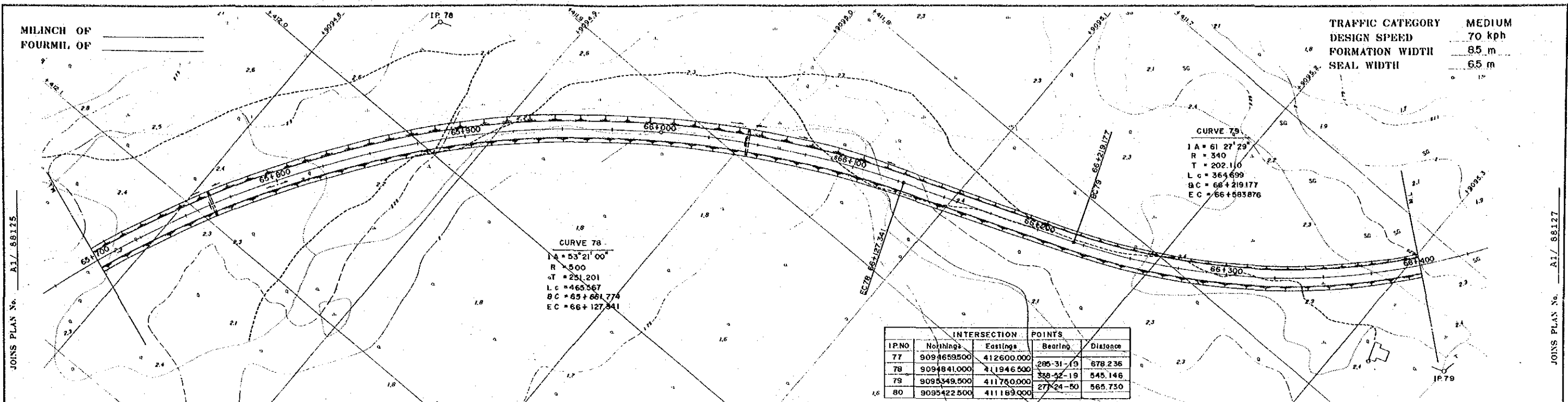
GRADIENT	1:0.100% 1:800.000															
EWK. CUT QTS. m	FILL															
DRAIN L.I.S. R.I.S.																
GRADE LEVELS	3.331	3.265	3.268	3.318	3.366	3.418	3.468	3.518	3.568	3.618	3.668	3.718	3.768	3.818	3.868	3.918
SURFACE LEVELS	3.23	3.07	2.96	2.68	2.42	2.17	1.87	2.24	2.59	2.94	3.00	3.17	3.03	2.89	2.43	2.40
CHAINAGE	65000.00	65025.00	65050.00	65075.00	65100.00	65125.00	65150.00	65175.00	65200.00	65225.00	65250.00	65275.00	65300.00	65325.00	65350.00	65375.00
CURVE DETAILS	R = ∞ R = 700 R = ∞ R = 500															
SUPER ELEVATION DETAILS	V205 RHS 4.0% LHS -4.0% V205 RHS & LHS -3.0% V205 LHS 5.0% RHS -5.0%															

OFFSET PEGS
DIST OFFSET R.I.

<p>REV AMENDMENTS BY APP'D DATE</p>		<p>SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL JOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AAD09 SURVEY BOOK N25</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 SECRETARY</p>		<p>SCALES 0 10 20 30 40 50 60 70 80 90 100(m) HORIZ. SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10(m) VERTICAL SECTION 1:100</p>		<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 65 + 000 — CH. 65 + 700 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88125</p>			
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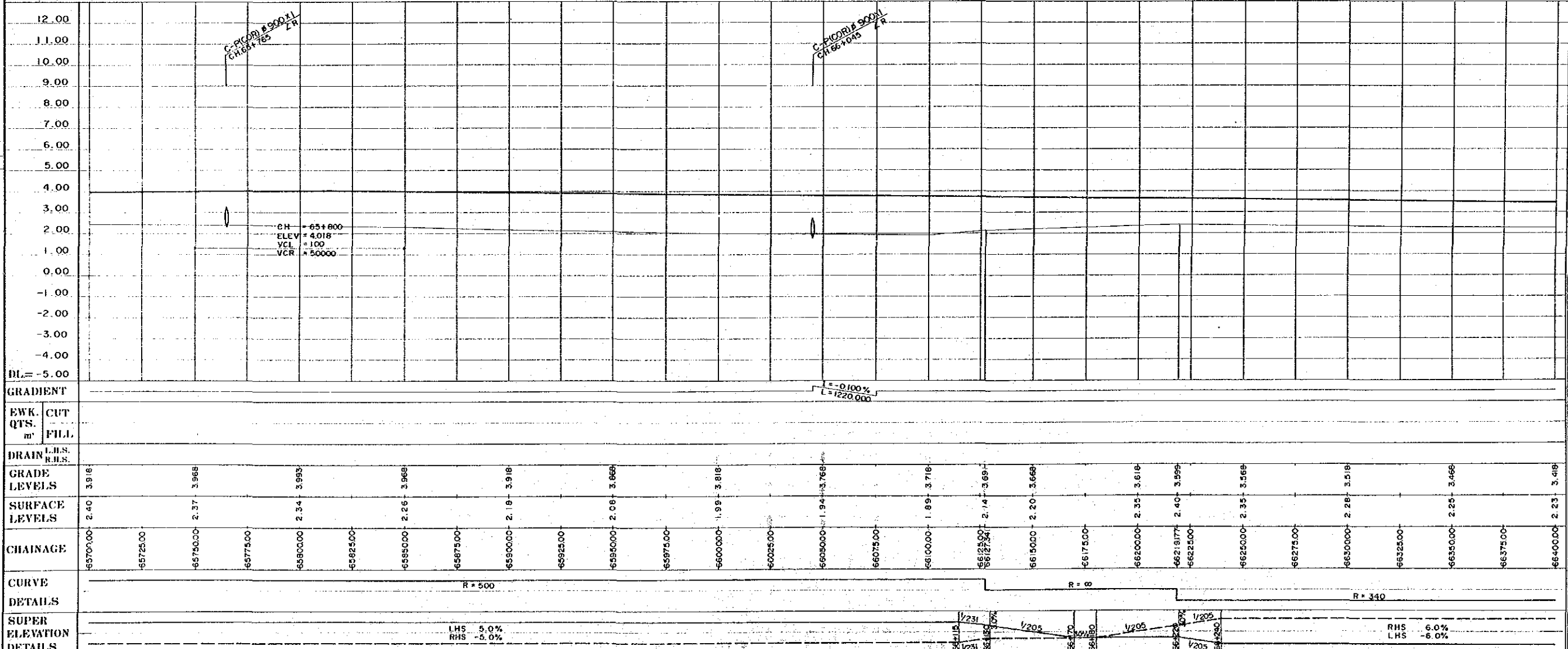
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m



CURVE 78
I A = 53° 21' 00"
R = 500
T = 251.201
L C = 465.567
B C = 65 + 661.774
E C = 66 + 127.341

CURVE 79
I A = 61° 27' 29"
R = 340
T = 202.110
L C = 364.699
B C = 66 + 219.177
E C = 66 + 583.876

IP NO	Northing	Eastings	Bearing	Distance
77	9094659.500	412600.000	295-31-19	678.236
78	9094841.000	411946.500	338-52-19	545.146
79	9095349.500	411750.000	277-24-50	565.750
80	9095422.500	411189.000		



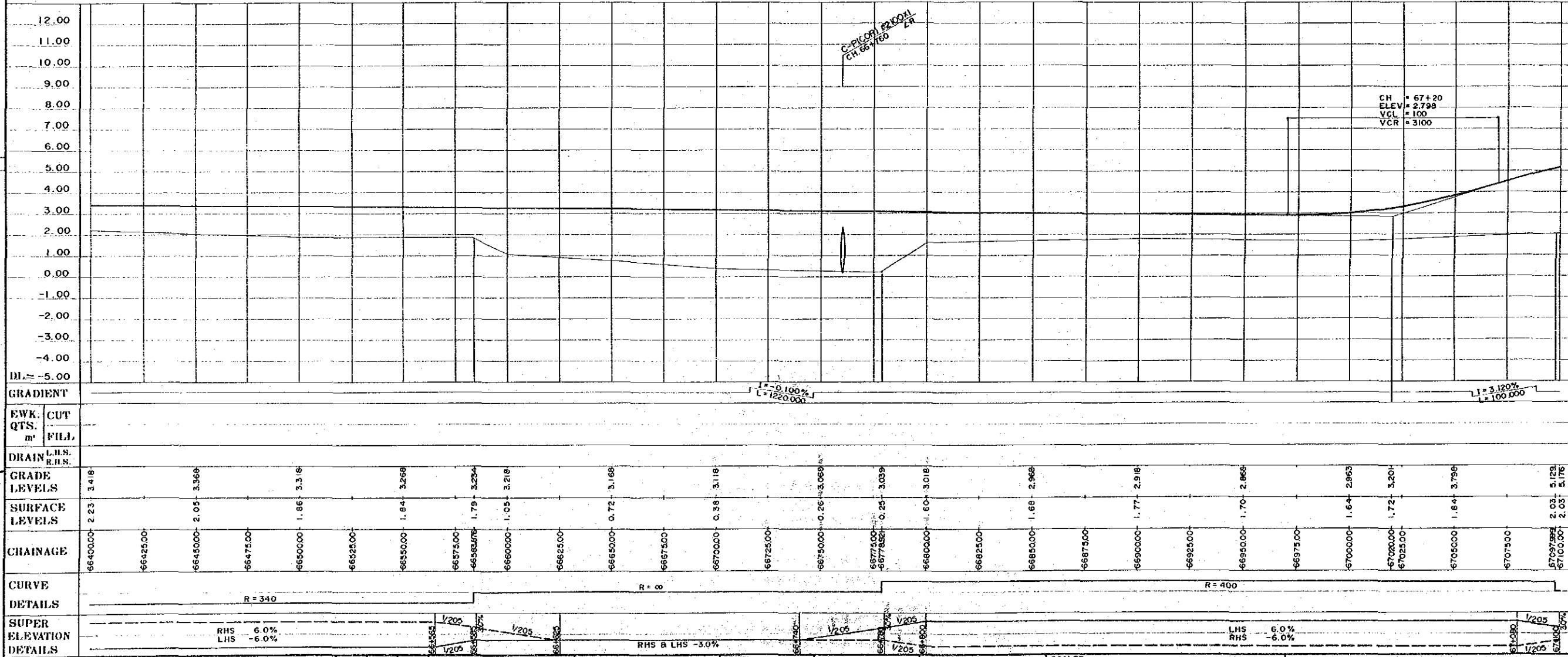
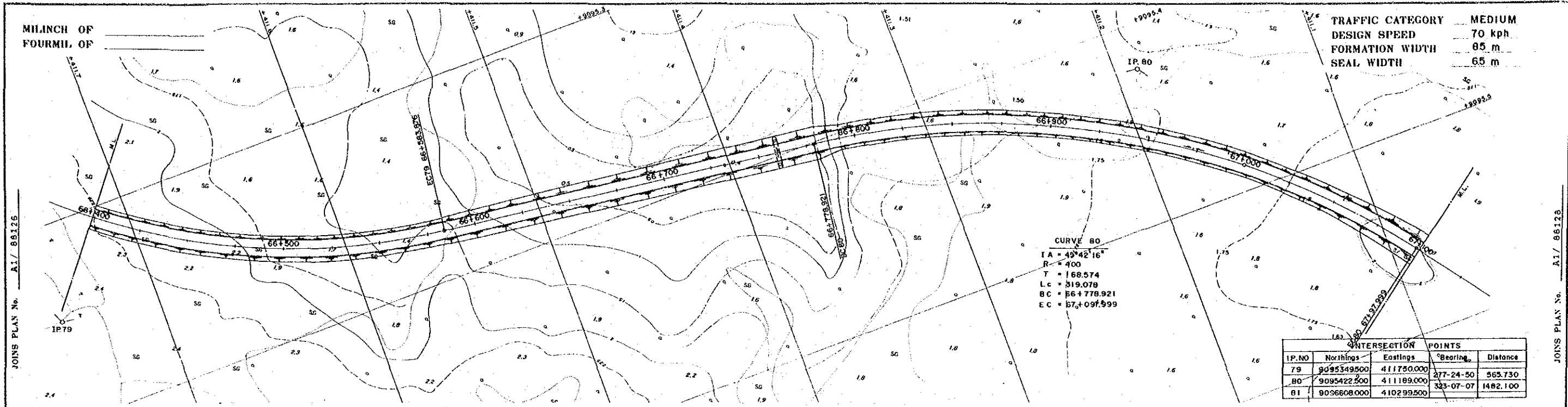
NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.I.

<p>REV AMENDMENTS BY APP'D DATE</p>		<p>SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL IONEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NRS</p>	<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date Principal</p>	<p>DRAWN K.E. CHECKED DESIGNED CHECKED</p>	<p>RECOMMENDED PROJECT ENGINEER APPROVED 25. 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. 65 + 700 — CH. 66 + 400 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88126</p>
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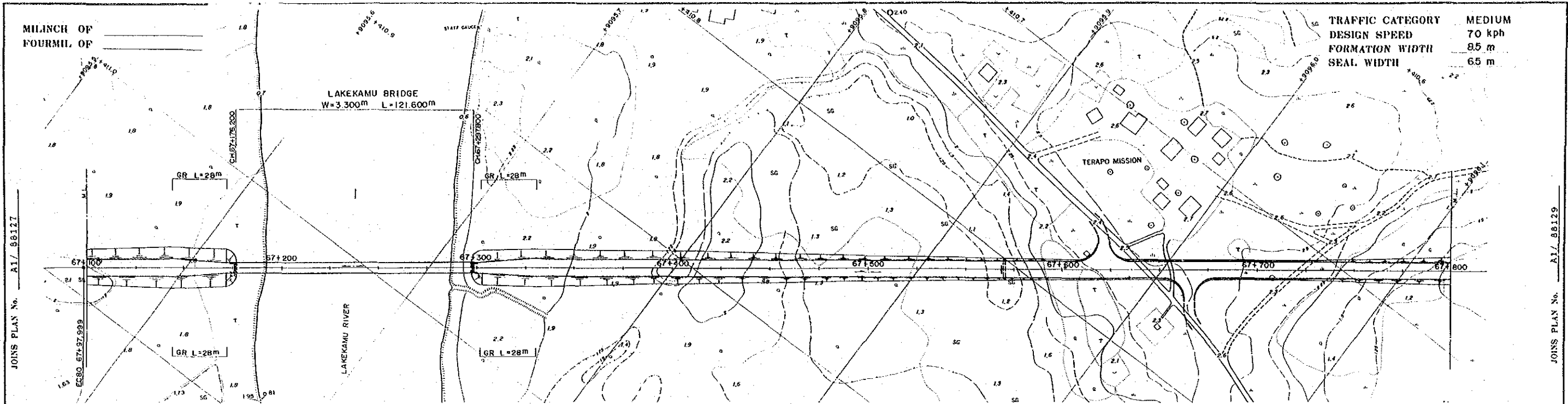
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 85 m
SEAL WIDTH 65 m



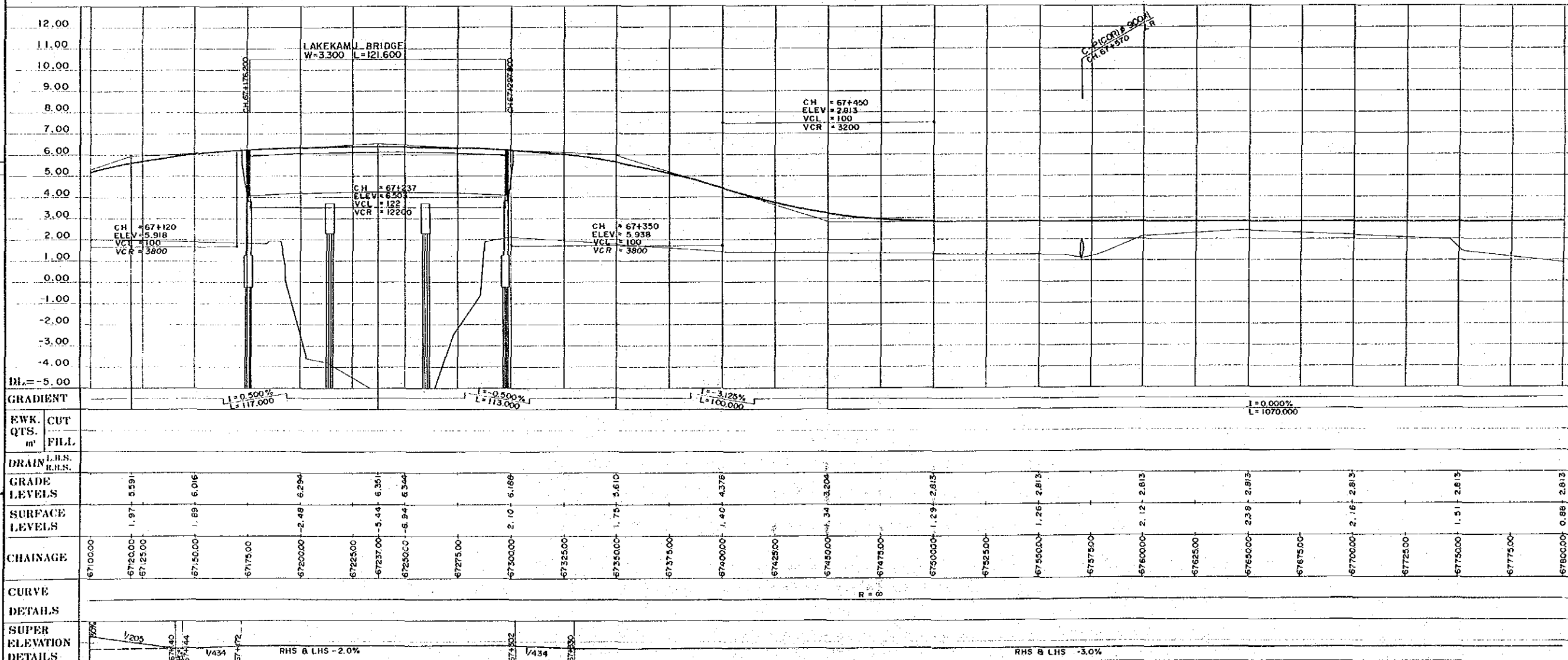
NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.L.

<p>REV. AMENDMENTS</p>		<p>BY APP'D DATE</p>		<p>SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL, TOKYO TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. A4809 SURVEY BOOK N° 5</p>		<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989</p>		<p>DRAWN K.E. CHECKED DESIGNED CHECKED</p>		<p>RECOMMENDED APPROVED Date 25.10.89</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. 66 + 400 — CH. 67 + 100</p>	
<p>PAPUA NEW GUINEA DEPARTMENT OF WORKS</p>				<p>PROJECT No. S.C.120-33-814/B</p>				<p>DRAWING No. A1/ 8 8 1 2 7</p>							



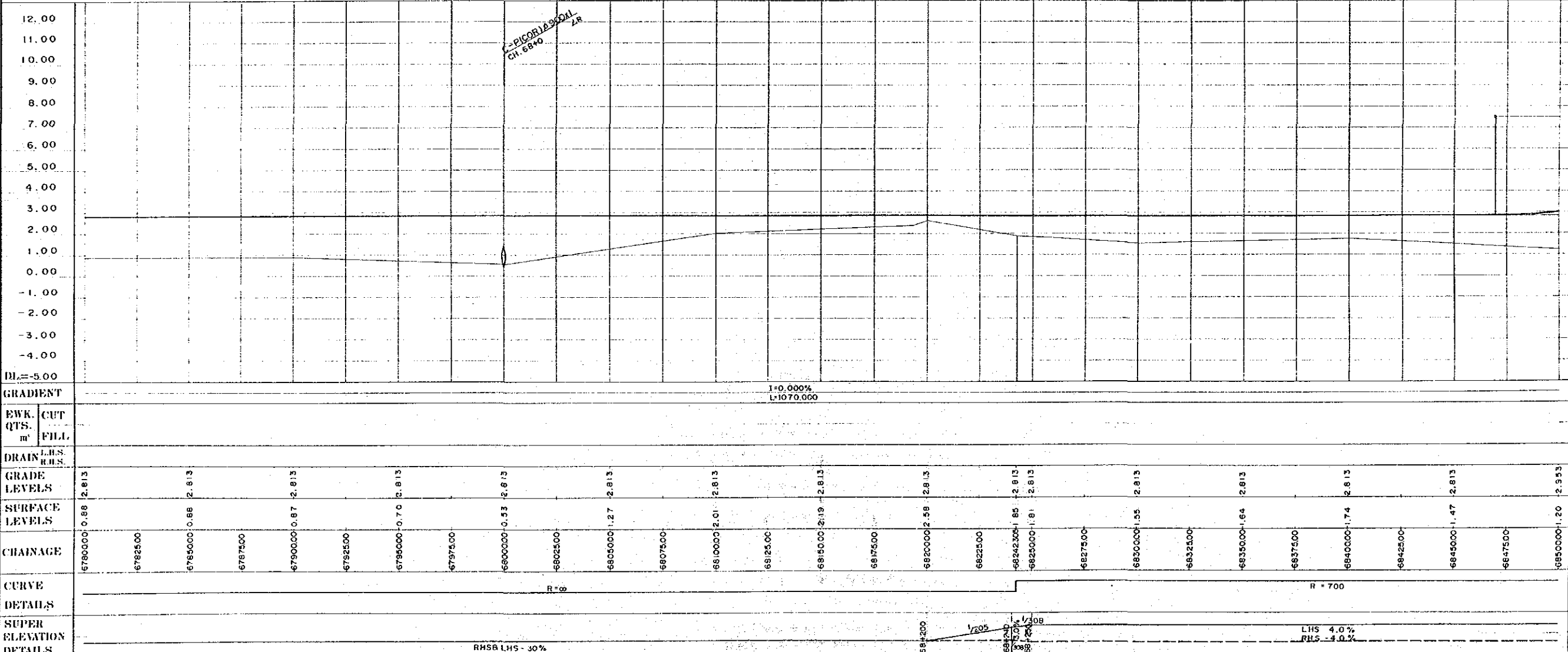
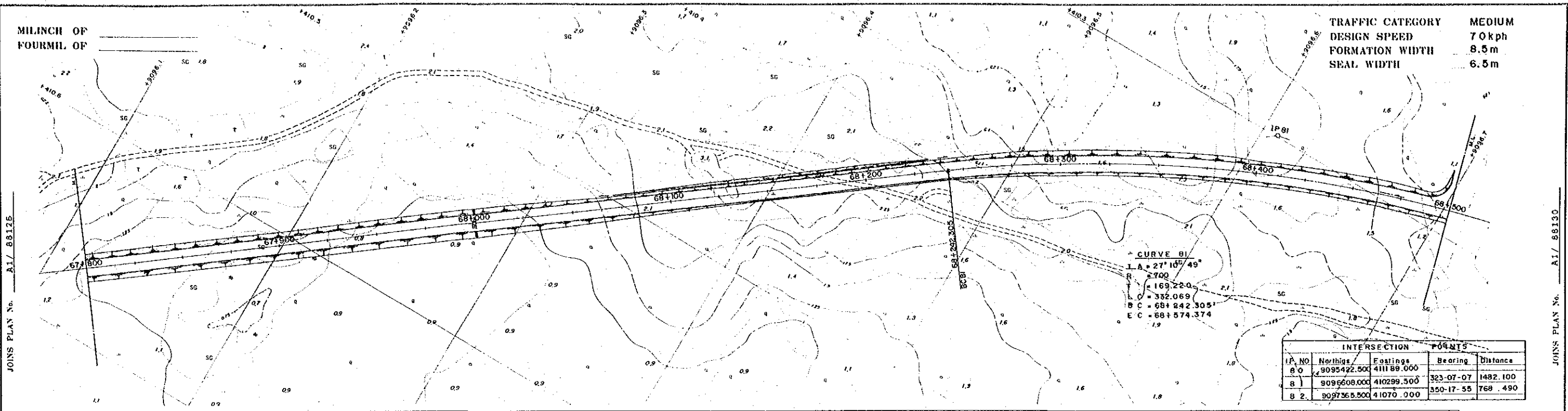
TRAFFIC CATEGORY MEDIUM
 DESIGN SPEED 70 kph
 FORMATION WIDTH 8.5 m
 SEAL WIDTH 6.5 m



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.

REV	AMENDMENTS	BY	APP'D	DATE	SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL JOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. A400 SURVEY BOOK NO. 6	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989	DRAWN K.E. CHECKED A. Mageto DESIGNED A. Mageto CHECKED Z. Karaman	RECOMMENDED [Signature] PROJECT ENGINEER [Signature] APPROVED [Signature] PRINCIPAL ENGINEER 25.10.89 SECRETARY	SCALES 0 10 20 30 40 50 60 70 80 90 100m HORIZ SECTION 1:1000 0 1 2 3 4 5 6 7 8 9 10m VERTICAL SECTION 1:100	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 67 + 100 — CH. 67 + 800 PAPER NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88128
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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

OFFSET PEGS
 DIST OFFSET R.L.

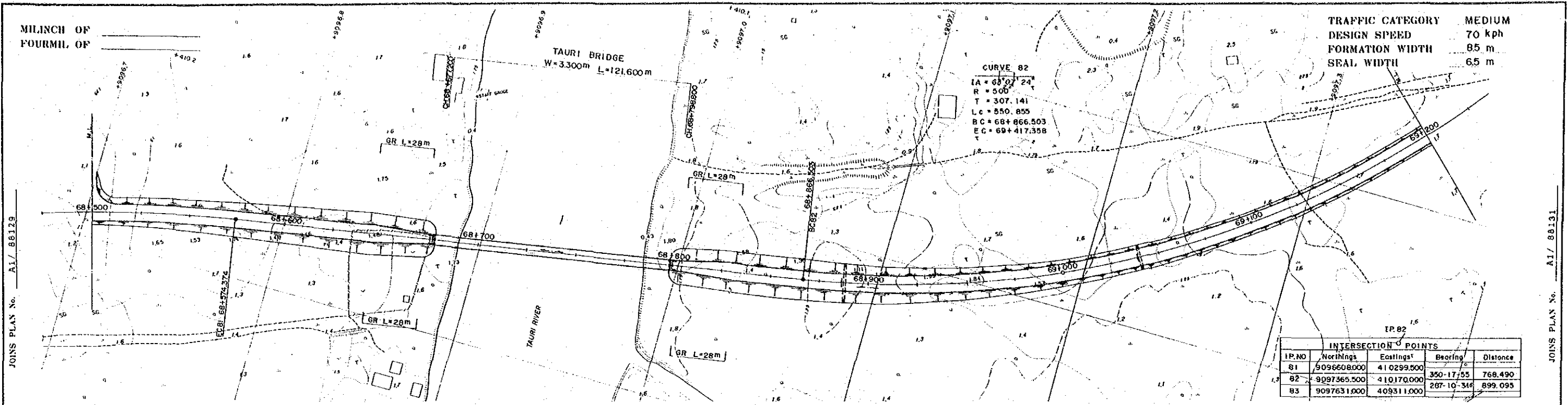
GRADIENT 1:0.000% L:1070.000		EWK. CUT m FILL		DRAIN L.H.S. R.H.S.		GRADE LEVELS 2.813		SURFACE LEVELS 0.88, 0.88, 0.87, 0.70, 0.53, 0.27, 0.21, 0.19, 0.25, 0.18, 0.55, 0.64, 0.74, 1.47, 1.20		CHAINAGE 6780000, 6782500, 6785000, 6787500, 6790000, 6792500, 6795000, 6797500, 6800000, 6802500, 6805000, 6807500, 6810000, 6812500, 6815000, 6817500, 6820000, 6822500, 6825000, 6827500, 6830000, 6832500, 6835000, 6837500, 6840000, 6842500, 6845000, 6847500, 6850000		CURVE DETAILS R = 700		SUPER ELEVATION DETAILS R.H.S. L.H.S. - 30% L.H.S. 4.0% R.H.S. -4.0%	
REV AMENDMENTS BY APP'D DATE		SURVEY JICA VERTICAL DATUM ORIGIN MEAN SEA LEVEL (OREA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. A4009 SURVEY BOOK NRS		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY 25 Sep. 1989 Date		DRAWN K.E. CHECKED DESIGNED CHECKED		RECOMMENDED PROJECT ENGINEER APPROVED EXECUTIVE ENGINEER		SCALES HORIZ SECTION 1:1,000 VERTICAL SECTION 1:100		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 67 + 800 — (CH. 68 + 500) P.A.P.U.A. NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88129			

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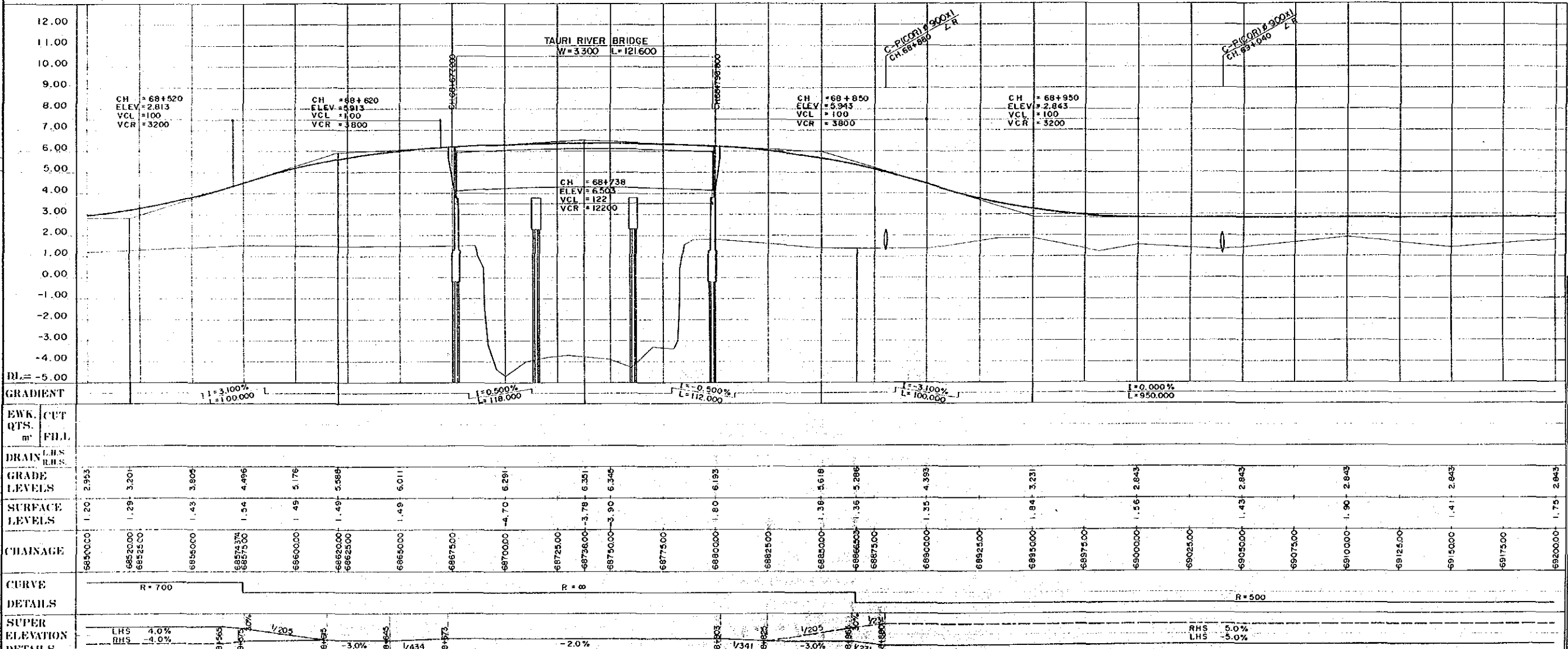
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88129

JOINS PLAN No. A1/ 88131



INTERSECTION POINTS				
IP NO	Northing ¹	Eastings ¹	Bearing	Distance
81	9096608.000	410299.500	350-17-55	768.490
82	9097365.500	410170.000	287-10-34	899.095
83	9097631.000	409311.000		



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.I.

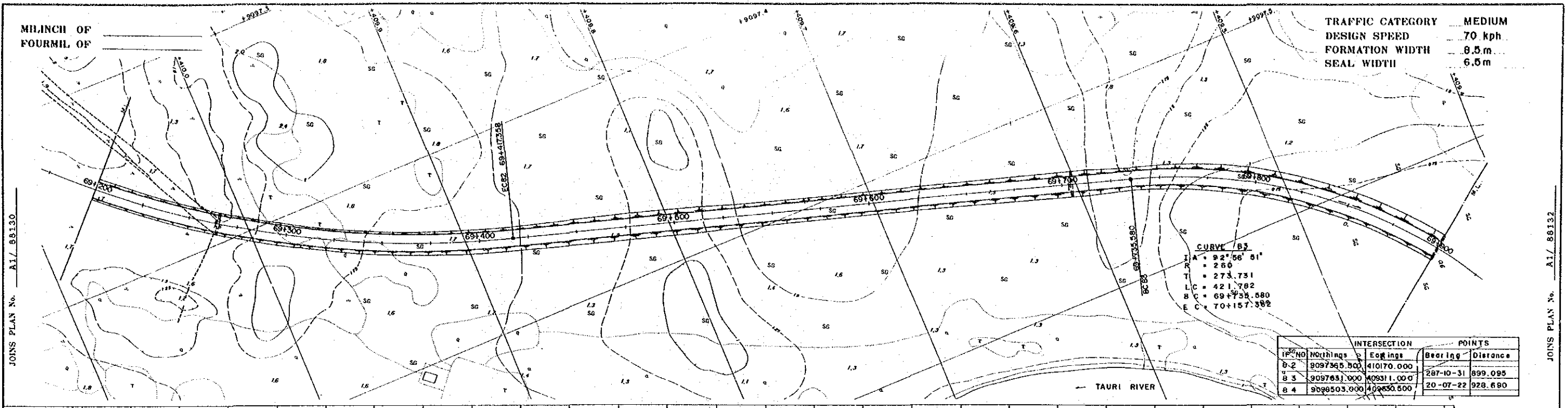
REV	AMENDMENTS	BY	APP'D	DATE	SURVEY	DESIGN	DRAWN	CHECKED	DESIGNED	CHECKED	RECOMMENDED	APPROVED	SCALES	CENTRAL / GULF PROVINCES	
														TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION)	
					JICA	JAPAN INTERNATIONAL CO-OPERATION AGENCY	K. E.						0 10 20 30 40 50 60 70 80 90 100m	CH. 68 + 500 — CH. 69 + 200	
					VERTICAL DATUM MEAN SEA LEVEL TOKEA TIDE G.								1:1,000	PAPUA NEW GUINEA	
					HORIZONTAL DATUM AZIMUTH DATA A.M.G. AA009								1:100	DEPARTMENT OF WORKS	
					SURVEY BOOK N°S									DRAWING No. A1/ 88130	
					25 Sep. 1989									PROJECT No. S.C.120-33-814/B	
														SHEET 96 OF 303	

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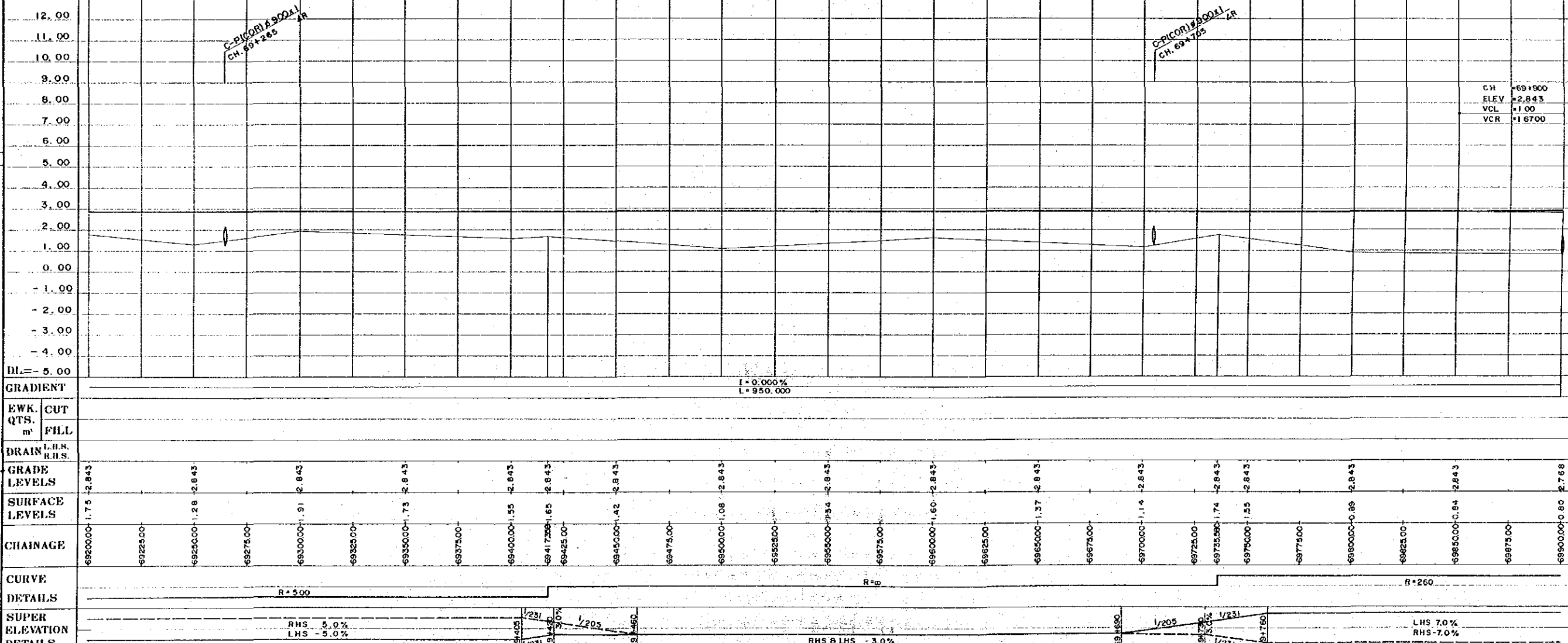
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 6.5m
SEAL WIDTH 6.5m

JOINS PLAN No. A1/ 88130

JOINS PLAN No. A1/ 88132



POINT NO	Northings	Eastings	Bearing	Distance
B-2	9097365.800	410170.000	287-10-31	899.095
B-3	9097631.000	409311.000	20-07-22	928.680
B-4	9098503.000	409650.500		



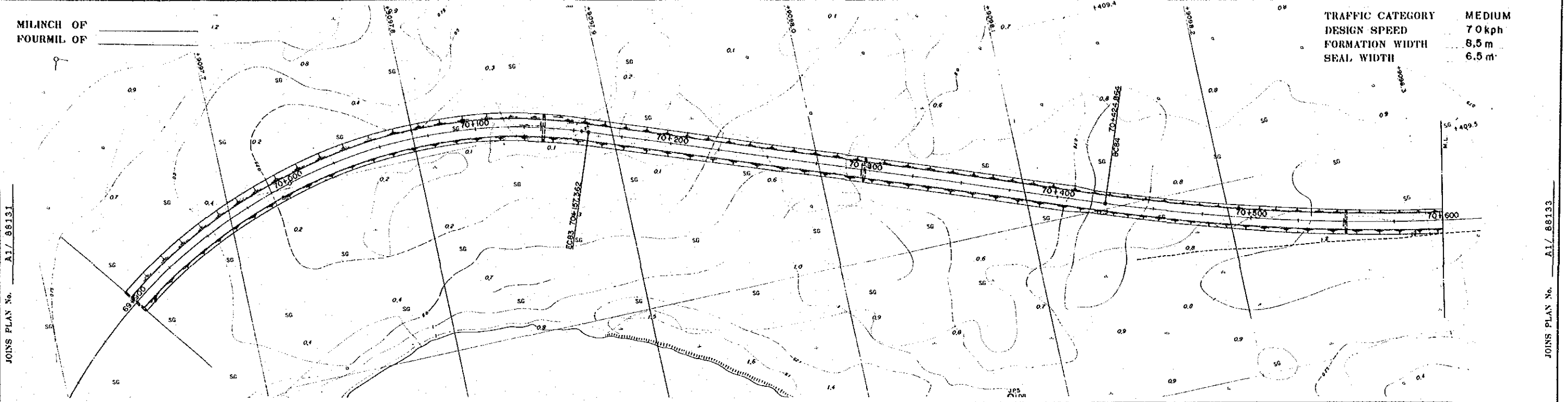
NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS

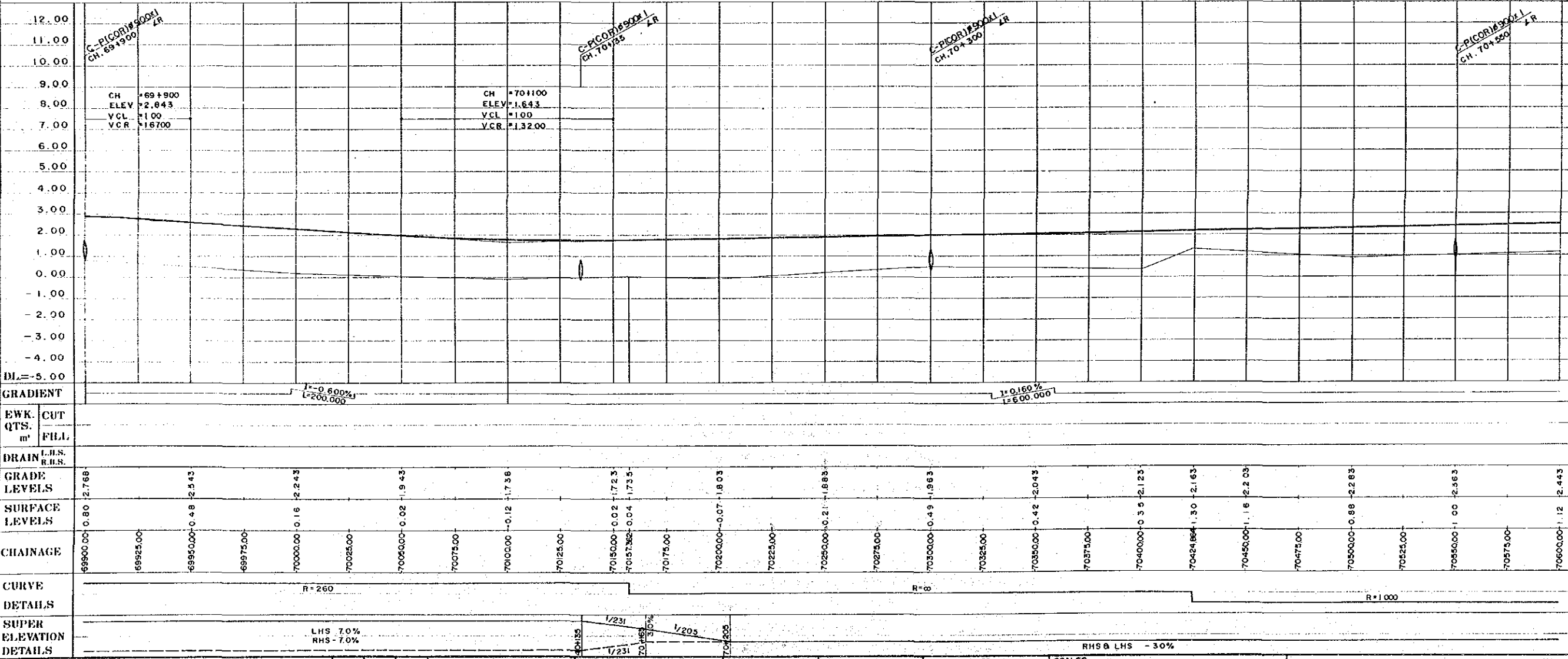
DIST	OFFSET	R.L.

JICA JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1989 Principal: <i>[Signature]</i>		DESIGN K.E. <i>[Signature]</i> PROJECT ENGINEER CHECKED: <i>[Signature]</i> DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i>		RECOMMENDED <i>[Signature]</i> PRINCIPAL ENGINEER APPROVED: <i>[Signature]</i> 25.10.89 FAS(TS) 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		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 69 + 200 — CH.69 + 900 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88131	
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REV	AMENDMENTS	BY	APP'D	DATE	SURVEY BOOK NOS	Principal	EXECUTIVE ENGINEER	SECRETARY	SHEET	PROJECT No.	DRAWING No.
									97 OF 303	S.C.120-33-814/B	A1/ 88131



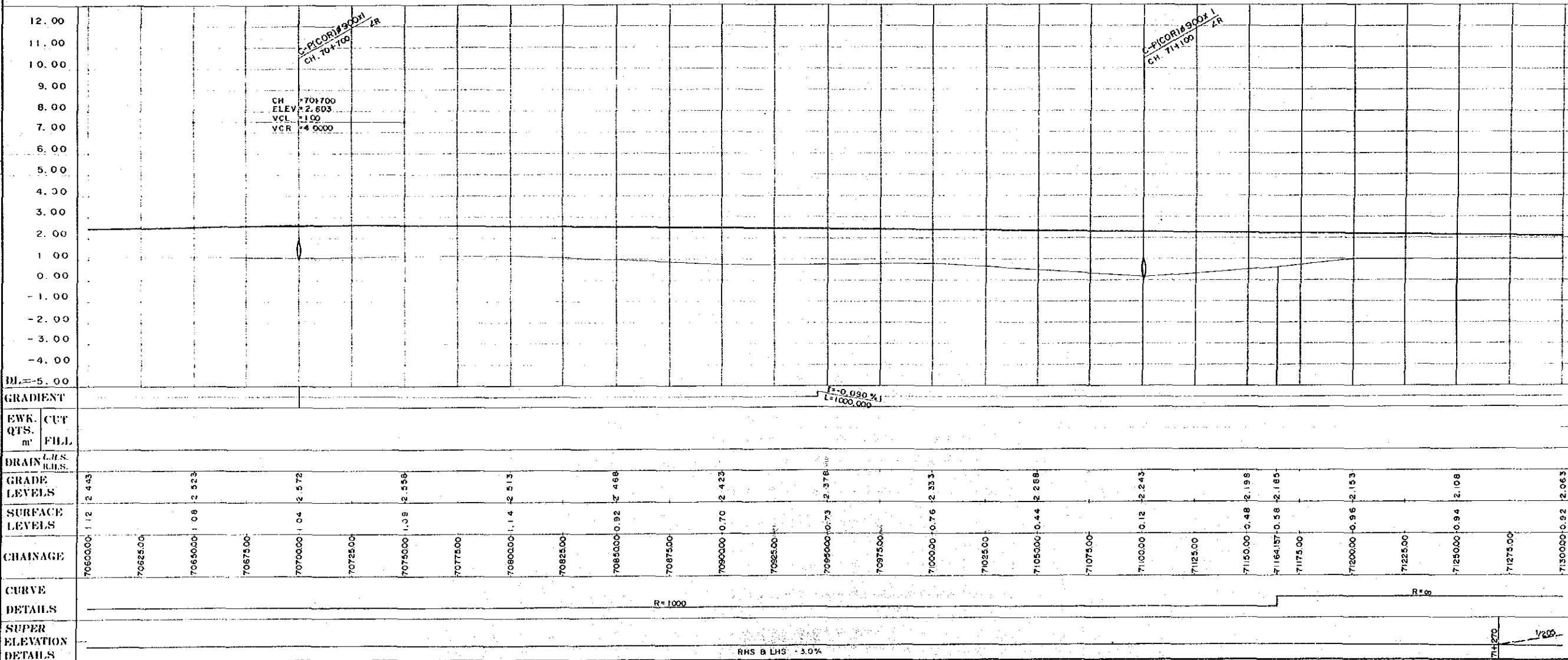
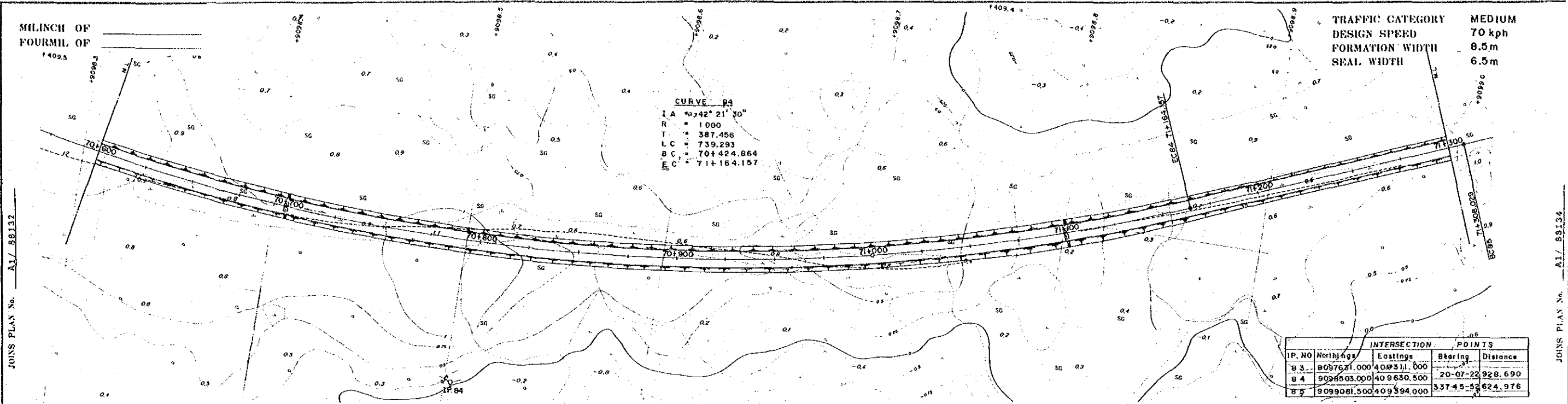
TRAFFIC CATEGORY MEDIUM
 DESIGN SPEED 70 kph
 FORMATION WIDTH 8.5 m
 SEAL WIDTH 6.5 m



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.

REV	AMENDMENTS			BY	APP'D	DATE	SURVEY JICA Date VERTICAL DATUM MEAN SEA LEVEL TOKRA TIDE G. HORIZONTAL DATUM AZIMUTH DATA A.M.G. A809 SURVEY BOOK N°S	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date Principal	DRAWN K. E. CHECKED DESIGNED A. Maga CHECKED	RECOMMENDED PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER EXECUTIVE ENGINEER	SCALES 0 10 20 30 40 50 60 70 80 90 100(m) HORIZ SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10(m) VERTICAL SECTION 1:100	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 69 + 900 — CH. 70 + 600		SHEET 98 OF 303 PROJECT No. S.C. 120-33-814/B PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88132
	25 Sep. 1989	25 10 89	25 10 89	FLS (19) SECRETARY										



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.

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. AA009 SURVEY BOOK N° 5	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989	DRAWN K.E. CHECKED DESIGNED A. M. J. S. CHECKED P. Karakani	PROJECT ENGINEER PRINCIPAL ENGINEER APPROVED 25.10.89 EXECUTIVE ENGINEER	RECOMMENDED SECRETARY	SCALES 0 20 40 60 80 100m HORIZ. SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10m VERTICAL SECTION 1:100	SHEET 99 OF 303 PROJECT No. S.C.120-33-814/B	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 70+600 — CH. 71+300 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88133
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TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5m
SEAL WIDTH 6.5m

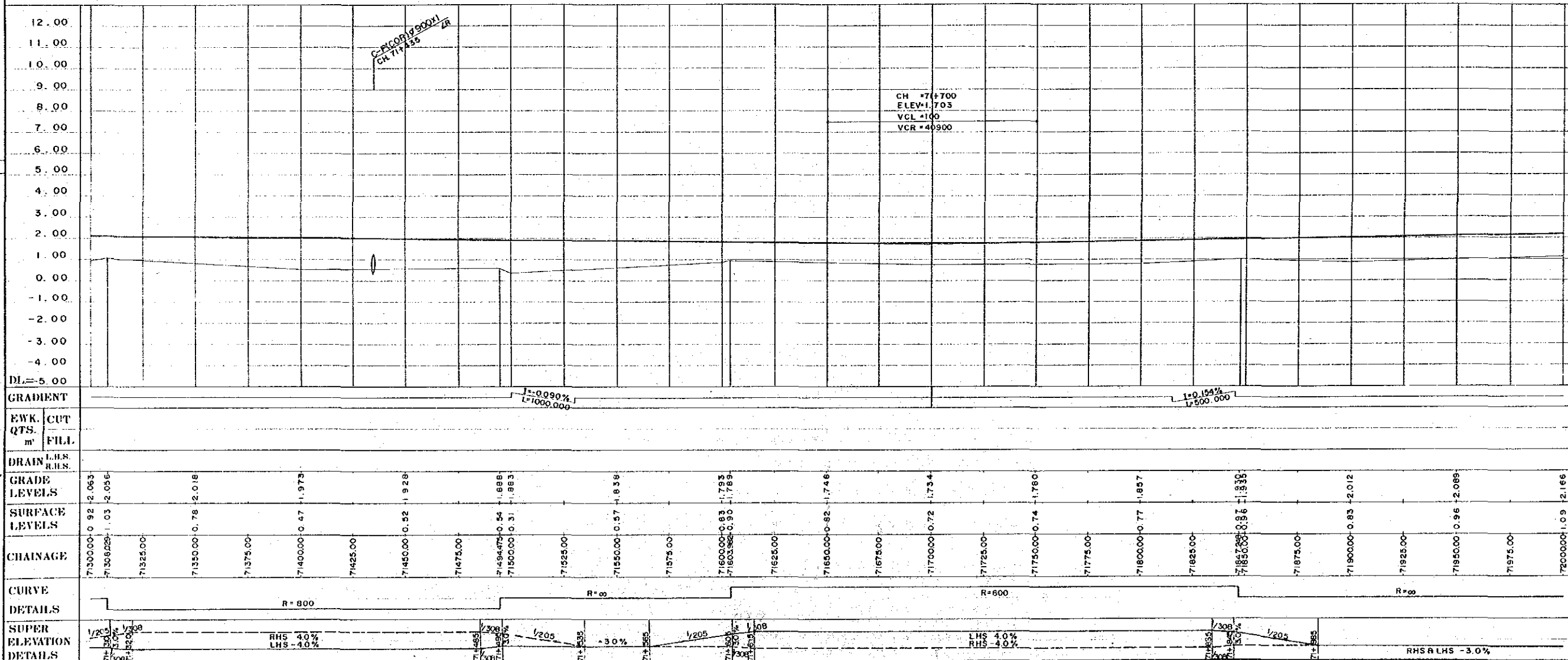
CURVE 85
I A = 13° 21' 11"
R = 800
T = 93.647
L = 186.446
B C = 711308.029
E C = 711494.475

CURVE 86
I A = 23° 13' 49"
R = 600
T = 123.327
L C = 243.266
B C = 711603.982
E C = 711647.248

INTERSECTION POINTS				
IP. NO.	Northings	Eastings	Bearing	Distance
B 4	9098503.000	409630.500	337-45-52	624.976
B 5	9099081.500	409394.000	324-24-41	526.482
B 6	9099347.000	409204.000	347-39-29	675.145
B 7	9100006.500	409059.500		

JOINS PLAN No. A1/ 88133

JOINS PLAN No. A1/ 88135



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.

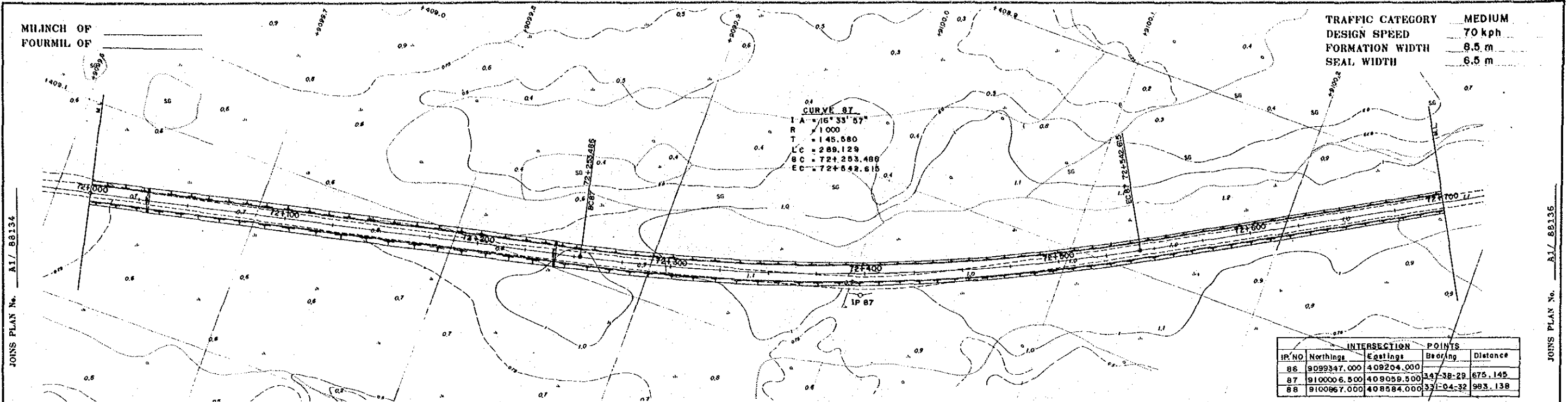
<p>REV AMENDMENTS BY APP'D DATE</p>		<p>SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL BOREA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NPS</p>		<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989 Principal</p>		<p>DRAWN K.E. CHECKED DESIGNED CHECKED</p>		<p>RECOMMENDED PROJECT ENGINEER APPROVED EXECUTIVE ENGINEER</p>		<p>SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100 SHEET 100 of 303</p>		<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 71 + 300 — CH. 72 + 000 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88134</p>	
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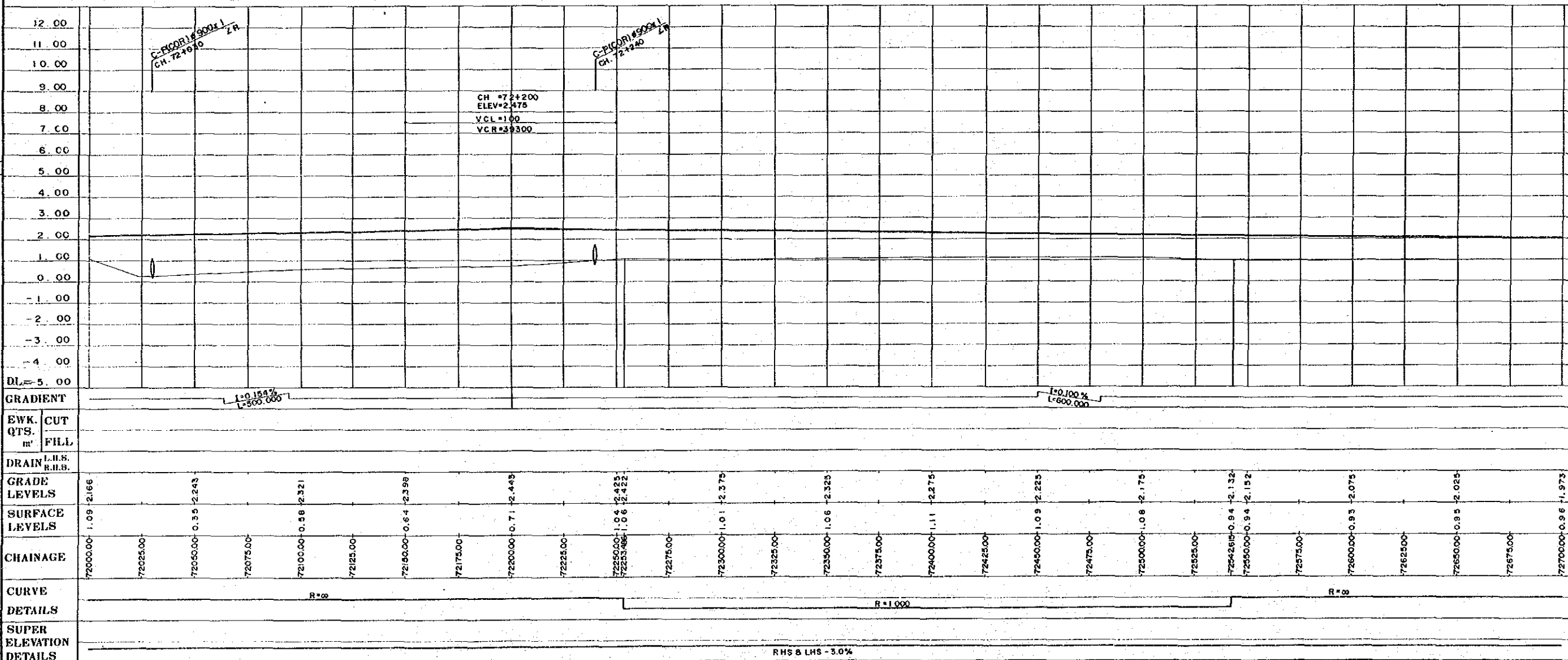
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88134

JOINS PLAN No. A1/ 88135



INTERSECTION POINTS			
IP NO	Northings	Eastings	Bearing
86	909347.000	409204.000	347-38-29
87	910000.500	409059.500	675-145
88	910087.000	408584.000	331-04-32
			993.138



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.

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL IOKEA TIDE C. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA809 SURVEY BOOK NOS	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989 Principal	DRAWN K. E. CHECKED DESIGNED A. Magan CHECKED EXECUTIVE ENGINEER	RECOMMENDED PROJECT ENGINEER APPROVED 26.10.89 PRINCIPAL ENGINEER SECRETARY	SCALES 0 10 20 30 40 50 60 70 80 90 100(m) HORIZ. SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10(m) VERTICAL SECTION 1:100	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 72+000 — CH. 72+700 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88135
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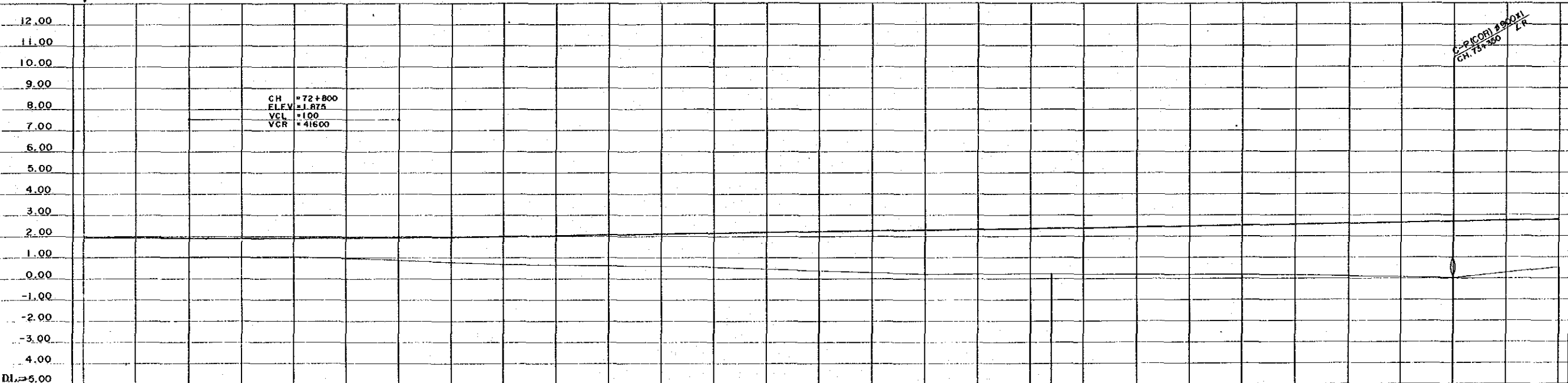
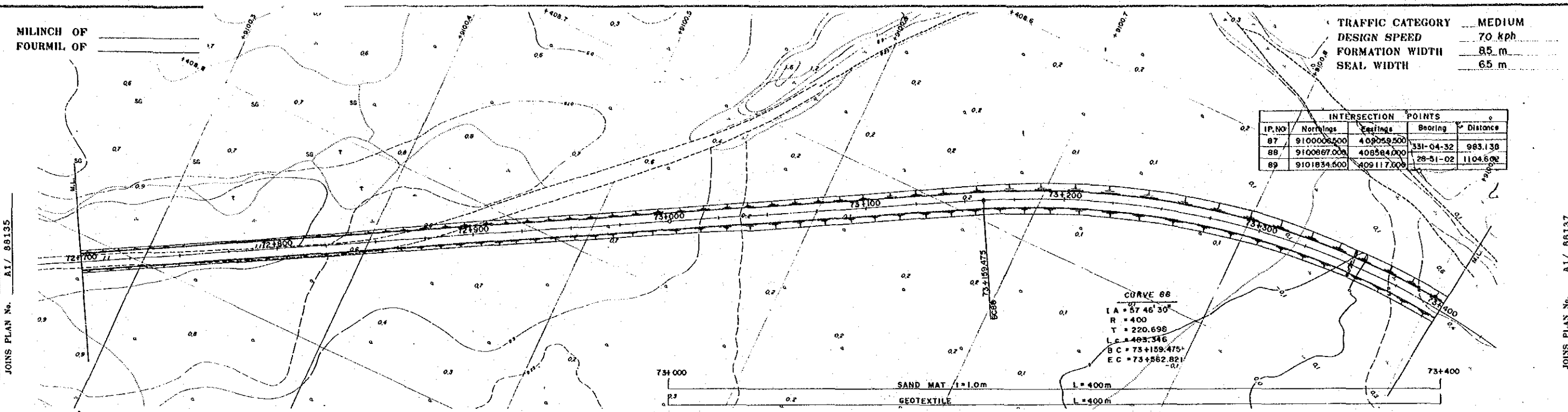
MILINCH OF
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TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 85 m
SEAL WIDTH 65 m

INTERSECTION POINTS			
IP. NO.	Northing	Easting	Bearing
87	9100006.500	409059.500	331-04-32
88	9100867.000	409364.000	28-31-02
89	9101834.600	409117.000	

JOINS PLAN No. A1/ 88135

JOINS PLAN No. A1/ 88137



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

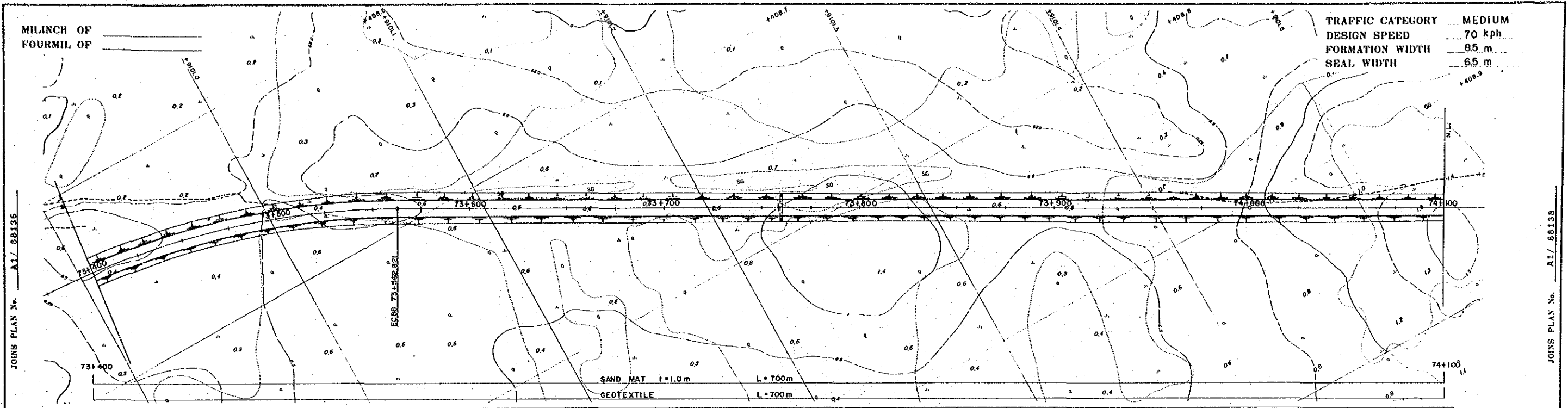
DIST	OFFSET PEGS	
	OFFSET	R.L.
72+000		
72+025		
72+050		
72+075		
72+100		
72+125		
72+150		
72+175		
72+200		
72+225		
72+250		
72+275		
72+300		
72+325		
72+350		
72+375		
72+400		

GRADIENT 1: -0.100% L=600.000 2: 0.141% L=600.000		CH. 72+800 ELEV = 1.875 VCL = 100 VCR = 41600	
GRADIENT			
EWK. CUT QTS. m'			
FILL			
DRAIN			
GRADE LEVELS	1.975	1.925	1.905
SURFACE LEVELS	0.96	1.00	1.03
CHAINAGE	72700.00	72725.00	72750.00
CURVE DETAILS	R = 3		R = 400
SUPER ELEVATION DETAILS	RHS & LHS -3.0%		LHS 6.0% RHS -6.0%
REV	AMENDMENTS	BY	APP'D

SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL IOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NOS	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989 Principal	DRAWN K.E. CHECKED DESIGNED CHECKED	RECOMMENDED PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER SECRETARY	SCALES 0 10 20 30 40 50 60 70 80 90 100(m) HORIZ. SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 (10m) VERTICAL SECTION 1:100	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 72 + 700 — CH. 73 + 400 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88136
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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



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	-1.00	-2.00	-3.00	-4.00	DL = -5.00												
GRADIENT																													
L = 0.141% L = 800.000																													
L = 0.060% L = 2250.000																													
EWK	CUT																												
QTS.	FILL																												
m ³																													
DRAIN																													
L.H.S.																													
R.H.S.																													
GRADE LEVELS	2.719	2.789	2.858	2.930	2.947	2.990	3.030	3.080	3.090	3.120	3.150	3.180	3.210	3.240	3.270	3.300	3.300												
SURFACE LEVELS	0.49	0.61	0.73	0.84	0.90	1.00	1.07	1.13	1.17	1.21	1.25	1.28	1.31	1.34	1.37	1.40	1.40												
CHAINAGE	734000	734250	734500	734750	735000	735250	735500	735750	736000	736250	736500	736750	737000	737250	737500	737750	738000	738250	738500	738750	739000	739250	739500	739750	740000	740250	740500	740750	741000
CURVE	R = 400																												
DETAILS	R = 80																												
SUPER ELEVATION	LHS 6.0% RHS -6.0%																												
DETAILS	RHS & LHS -3.0%																												

C.P. (C08) 490021
CH 73+760

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.

REV		AMENDMENTS		BY	APP'D	DATE	SURVEY		DESIGN		DRAWN		RECOMMENDED		SCALES		CENTRAL / GULF PROVINCES			
							JICA		JAPAN INTERNATIONAL CO-OPERATION AGENCY		K.E.		Maga		HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100		TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION)			
							Date		Date		Date		Date				PLAN & LONGITUDINAL SECTION			
							VERTICAL DATUM		ORIGIN		CHECKED		PRINCIPAL ENGINEER				CH. 73 + 400 — CH. 74 + 100			
							MEAN SEA LEVEL		IOKEA TIDE G.		DESIGNED		APPROVED				PAPUA NEW GUINEA			
							HORIZONTAL DATUM		ORIGIN		CHECKED		SECRETARY				DRAWING No.			
							AZIMUTH DATA		A.M.G. AA889		CHECKED						DEPARTMENT OF WORKS			
							SURVEY BOOK NRS				Principal		Date				A1/ 88137			

MILINCH OF
FOURMIL OF

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

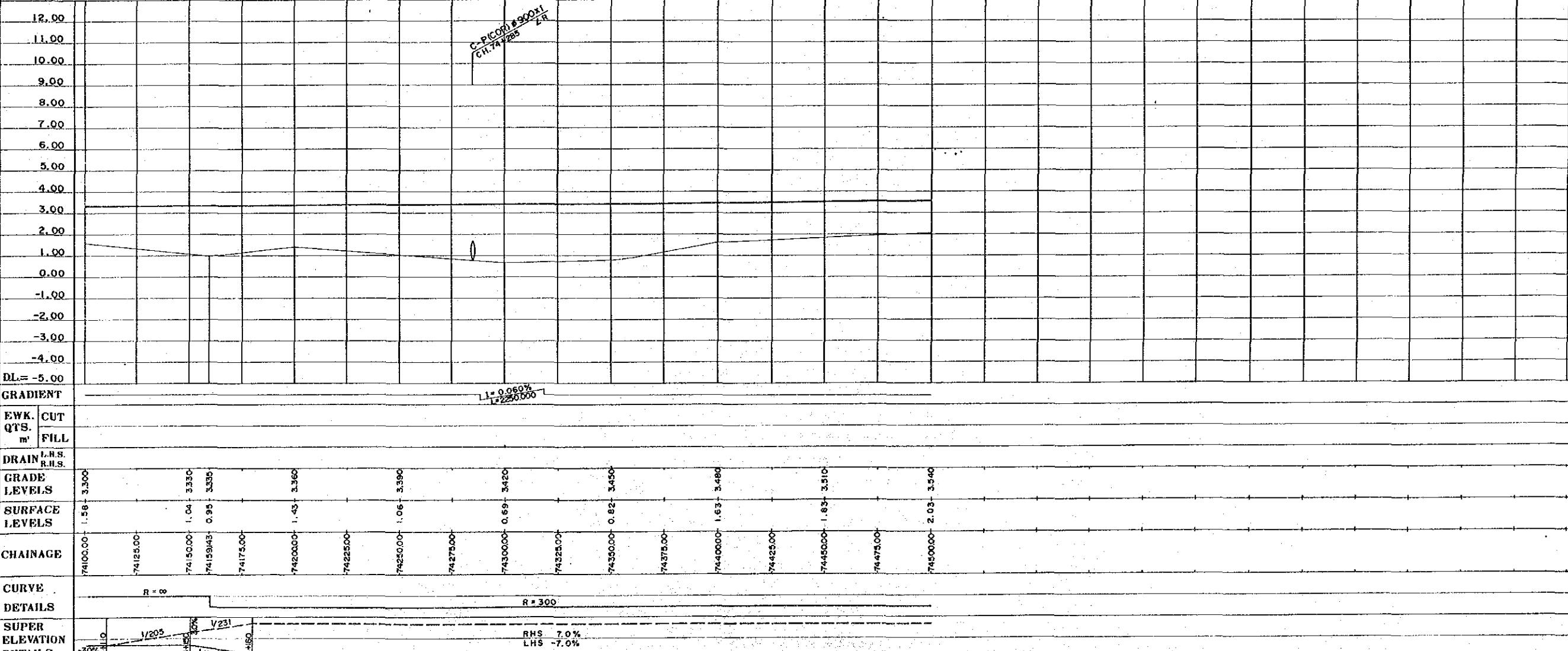
CURVE 89
 LA = 87°34'42"
 R = 300
 T = 287.581 0.3
 L = 438.660
 BC = 74+189.143
 EC = 74+617.703

JOINS PLAN No. A1/ 88137

JOINS PLAN No. A1/ 88139

INTERSECTION POINTS			
I.P. NO	Northings	Eastings	Distance
88	9100867.000	409394.000	28-51-02 1104.602
89	9101834.500	409117.000	301-16-20 621.263
90	9102157.000	408586.000	

SAND MAT 1.0m
 GEOTEXTILE 1.400m
 1.480m



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.

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	DESIGN	DRAWN	CHECKED	RECOMMENDED	APPROVED	SCALES	CENTRAL / GULF PROVINCES	
												TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION)	
					JICA	JAPAN INTERNATIONAL CO-OPERATION AGENCY	K.E.				0 10 20 30 40 50 60 70 80 90 100(m) HORIZ SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10(m) VERTICAL SECTION 1:100	PLAN & LONGITUDINAL SECTION	
					VERTICAL DATUM ORIGIN MEAN SEA LEVEL HOKKA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009							CH. 74 + 100 --- CH. 74 + 500	
					SURVEY BOOK No.8							PAPUA NEW GUINEA	DRAWING No.
					25 Sep. 1989							DEPARTMENT OF WORKS	A1/ 88138

MILINCH OF
FOURMIL OF

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

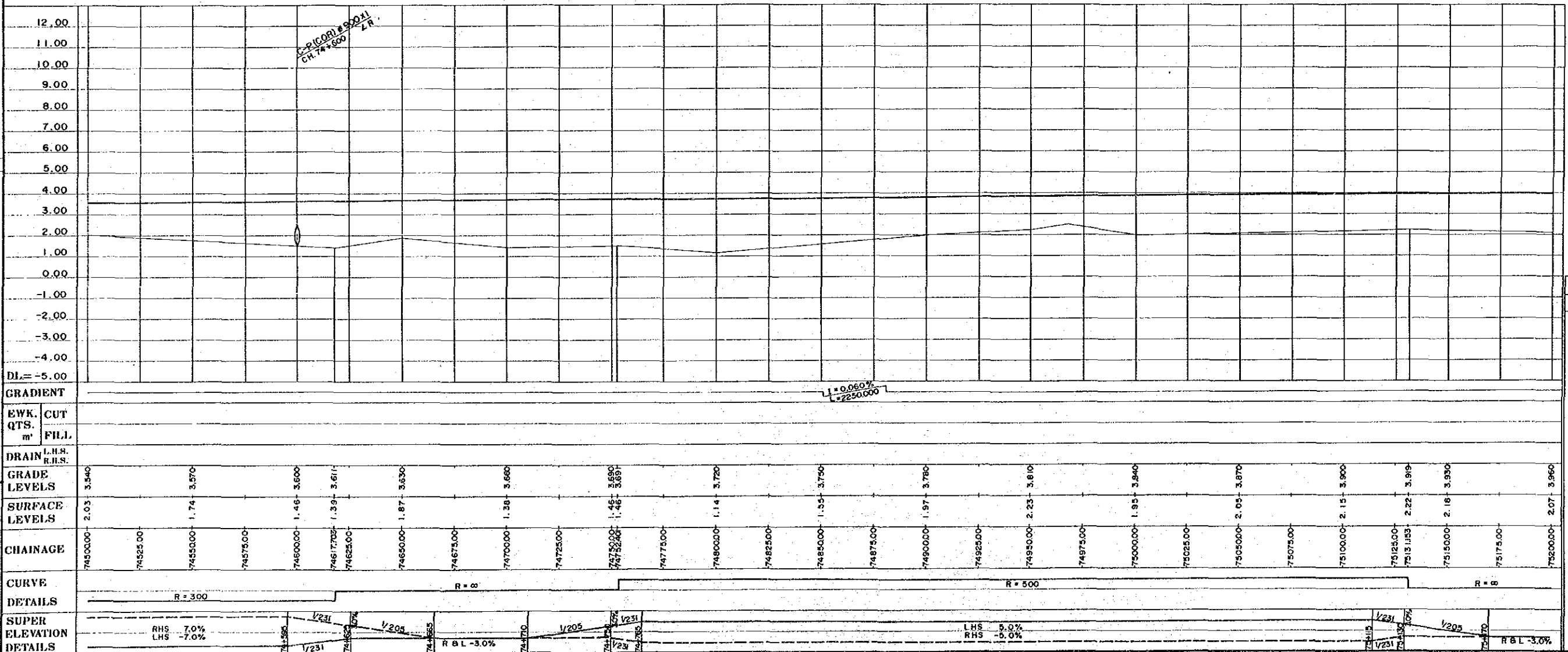
INTERSECTION POINTS			
IP NO.	Northings	Eastings	Bearing
89	9101834.500	409117.000	301-10-20
90	9102187.000	408586.000	294-30-26
91	9102874.000	408389.500	

CURVE 90
I-A = 43° 24' 05"
R = 500
T = 198.983
LC = 378.752
BC = 747722.401
EC = 747181.103

SAND MAT 1 = 1.0m
GEOTEXTILE L = 700m

JOINS PLAN No. A1/ 88139

JOINS PLAN No. A1/ 88140



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.

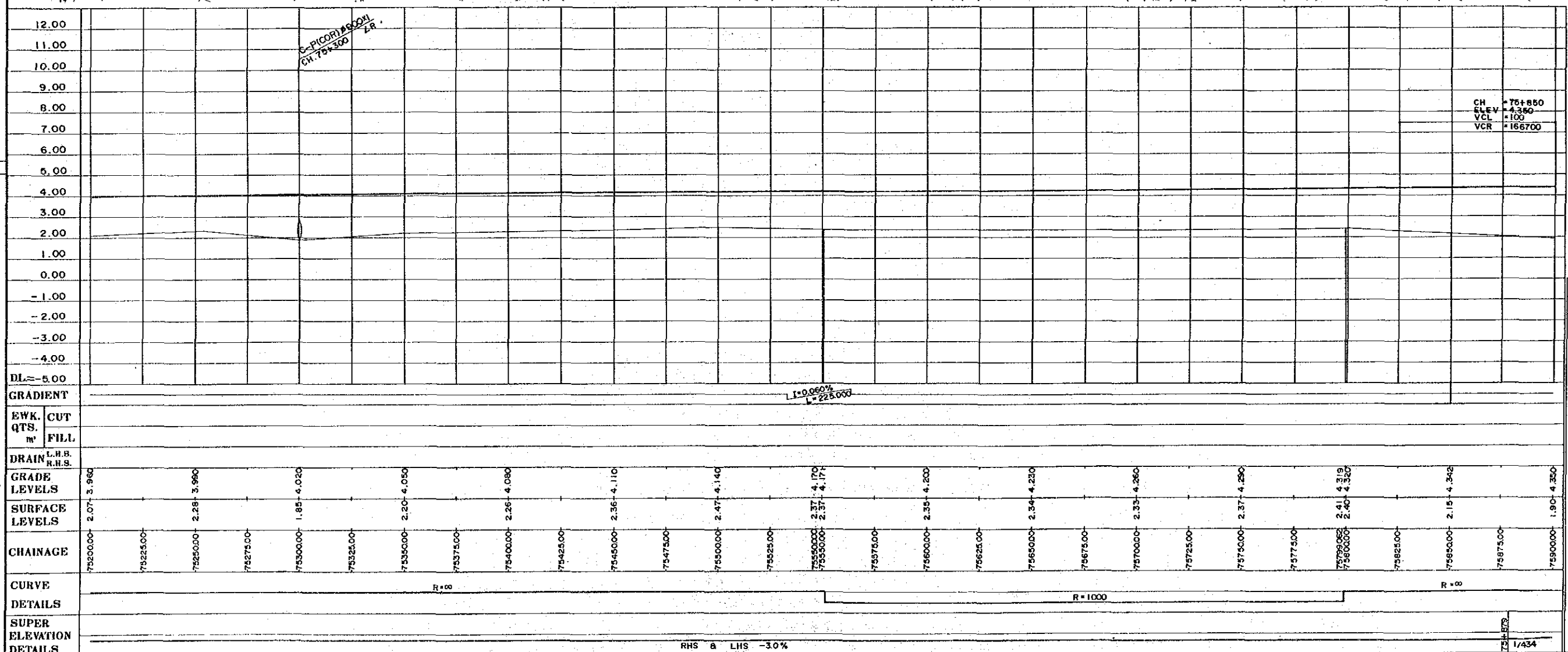
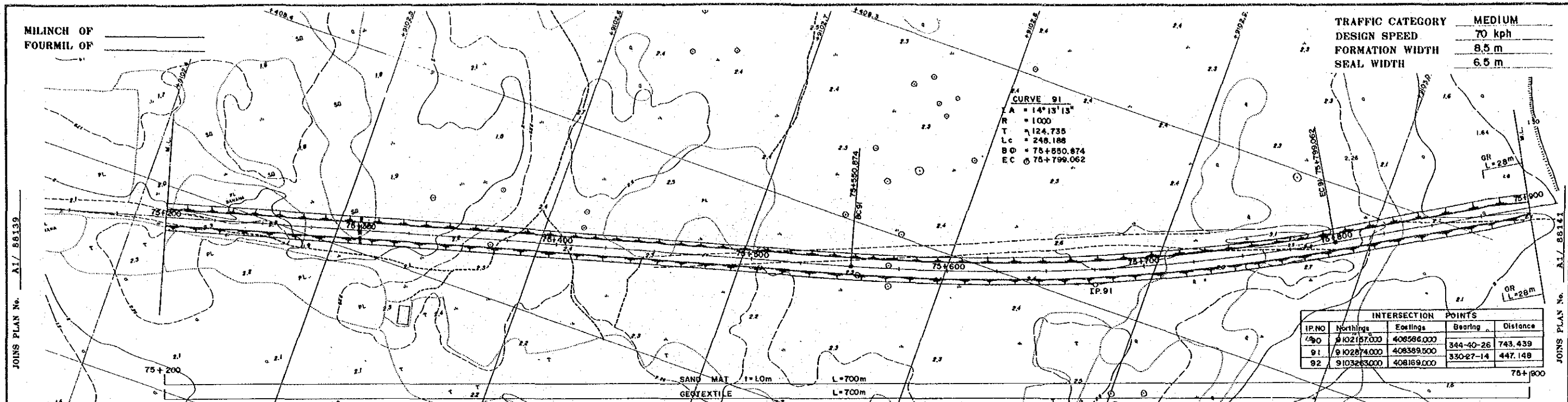
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL IOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA903 SURVEY BOOK NOS	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989	DRAWN K.E. CHECKED <i>[Signature]</i> DESIGNED A. Magato CHECKED <i>[Signature]</i>	RECOMMENDED <i>[Signature]</i> PROJECT ENGINEER APPROVED <i>[Signature]</i> 15.10.89 EXECUTIVE ENGINEER 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	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 74 + 500 — CH. 75 + 200 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88139	SHEET 105 OF 303 PROJECT No. S.C. 120-33-814/B

MILINCH OF
FOURMIL OF

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

CURVE 91
A = 14° 13' 13"
R = 1000
T = 124.735
Lc = 248.188
B0 = 75+850.874
EC = 75+799.062

IP.NO	Northings	Easting	Bearing	Distance
90	9102187.000	408586.000	344-40-26	743.439
91	9102874.000	408389.500	330-27-14	447.149
92	9103263.000	408169.000		



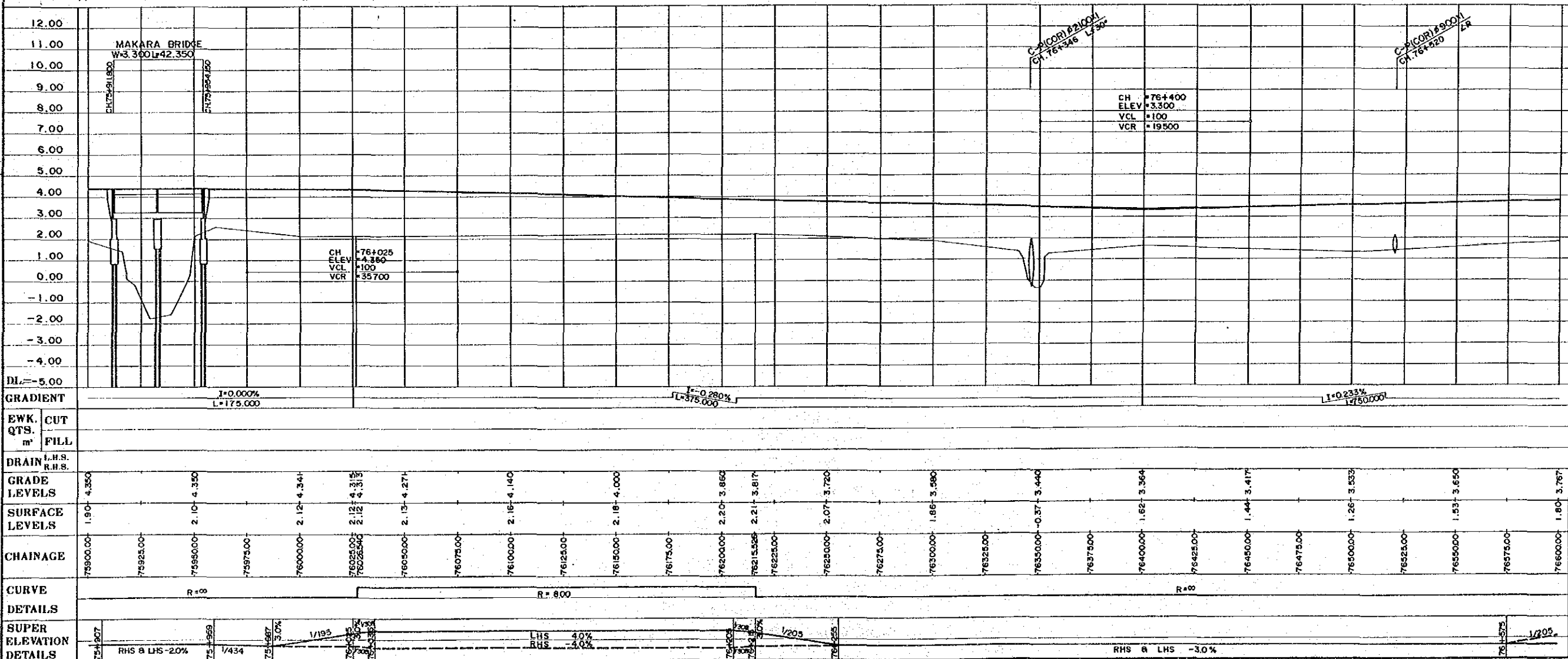
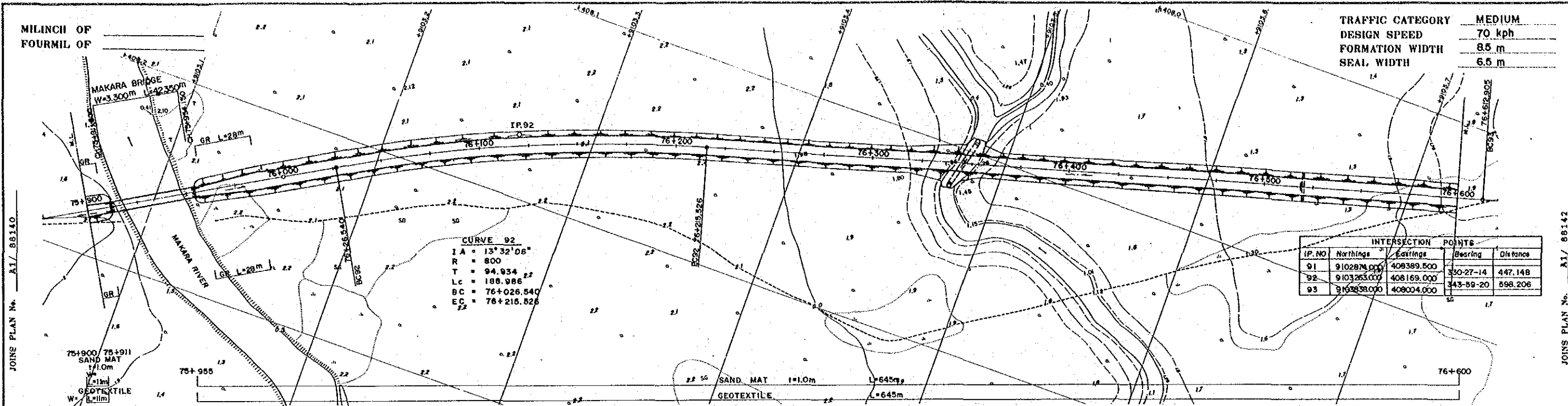
NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.L.

<p>REVISIONS</p>		<p>AMENDMENTS</p>	<p>BY</p>	<p>APP'D</p>	<p>DATE</p>	<p>SURVEY JICA Date</p>	<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date</p>	<p>DRAWN K.E. CHECKED A. Magato DESIGNED A. Magato CHECKED K. Kawakami</p>	<p>RECOMMENDED PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER Date</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. 75 + 200 — CH. 75 + 900</p>	
<p>REVISIONS</p>						<p>VERTICAL DATUM ORIGIN MEAN SEA LEVEL IOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA099, 1.</p>	<p>Principal</p>	<p>25 Sep. 1989</p>	<p>EXECUTIVE ENGINEER</p>	<p>SECRETARY</p>	<p>SHEET 106 OF 303 PROJECT No. S.C. 120-33-814/B</p>	<p>PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88140</p>

MILINCH OF
FOURMIL OF

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



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.

REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY JICA Date	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date	DRAWN K.E. CHECKED DESIGNED CHECKED	RECOMMENDED PROJECT ENGINEER APPROVED PRINCIPAL ENGINEER EXECUTIVE ENGINEER	SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 75 + 900 — CH. 76 + 600 PAPUA NEW GUINEA DEPARTMENT OF WORKS	DRAWING No. A1/ 88141
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MILINCH OF
FOURMIL OF

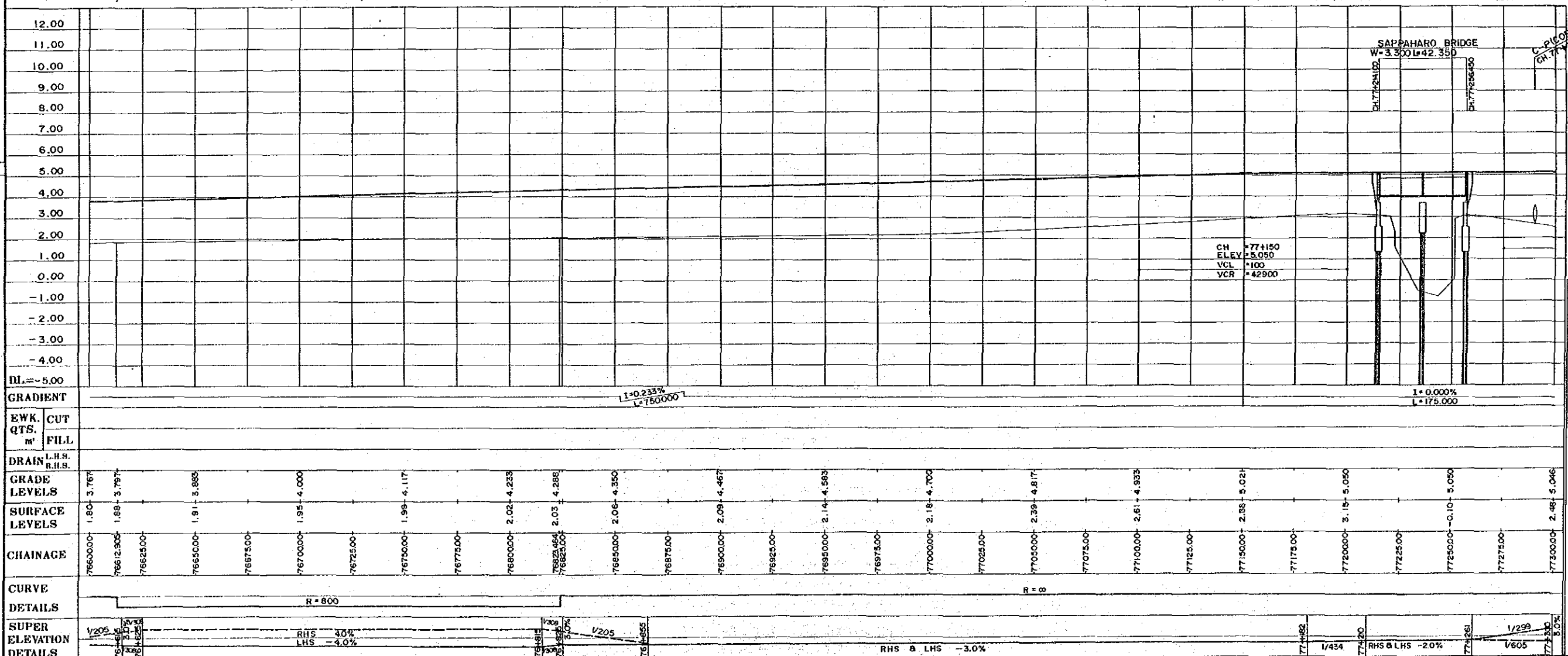
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 6.5 m
SEAL WIDTH 6.5 m

CURVE 93
I A = 15° 04' 49"
R = 800
T_{SO} = 105.89277
L_E = 210.555
S C = 78+612.905
E C = 78+823.464

IP. NO.	Northings	Eastings	Bearing	Distance
92	9103263.000	408169.000	343-55-20	398.205
93	9103838.000	408004.000	328-54-31	654.826
94	9104398.500	407666.000		

JOINS PLAN No. A1/ 88141

JOINS PLAN No. A1/ 88143



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.

<p>SCALE</p> <p>HORIZ. SECTION 1:1000</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. 76+600 — CH. 77+300</p>	
<p>PROJECT No. S.C. 120-33-814/B</p> <p>SHEET 108 OF 303</p>		<p>PAPUA NEW GUINEA</p> <p>DEPARTMENT OF WORKS</p> <p>DRAWING No. A1/ 88142</p>	

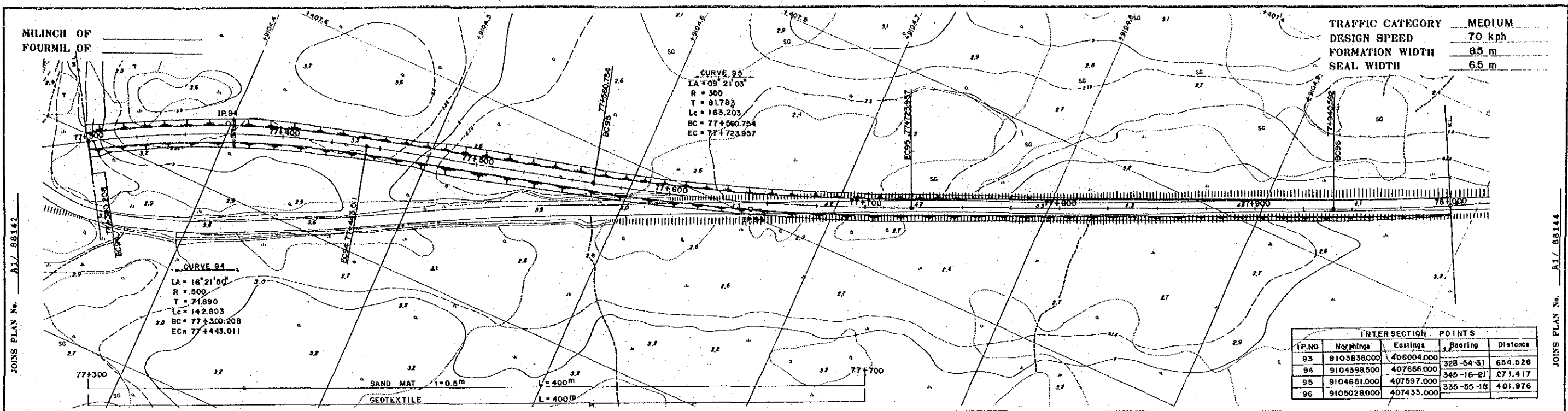
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY	DESIGN	DRAWN	CHECKED	DESIGNED	CHECKED	RECOMMENDED	APPROVED	SECRETARY
					JICA	JAPAN INTERNATIONAL CO-OPERATION AGENCY	K.E.						

MILINCH OF
FOURMIL OF

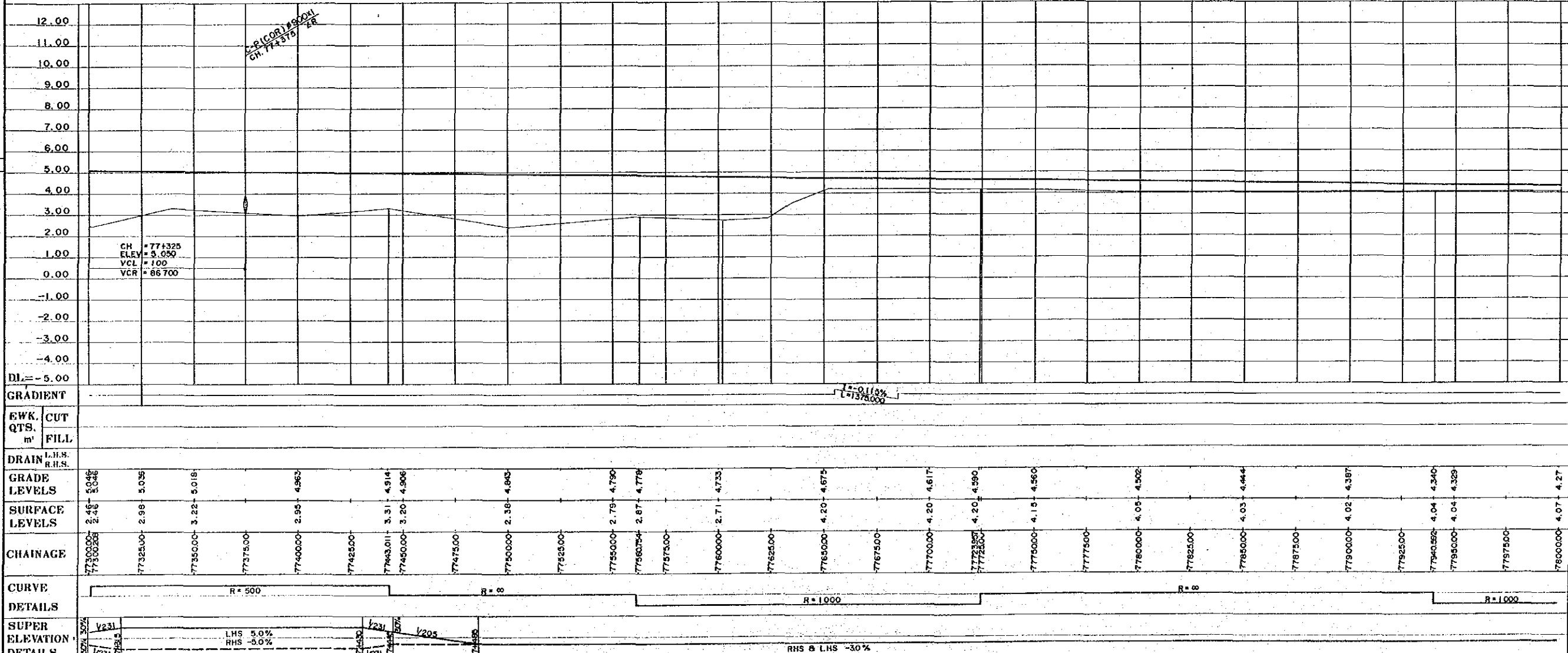
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88142

JOINS PLAN No. A1/ 88144



IP NO	Northing	Easting	Bearing	Distance
93	9103838.000	408004.000	328-54-31	654.826
94	9104398.500	407666.000	345-16-21	271.417
95	9104661.000	407597.000	335-55-18	401.976
96	9105028.000	407433.000		



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.

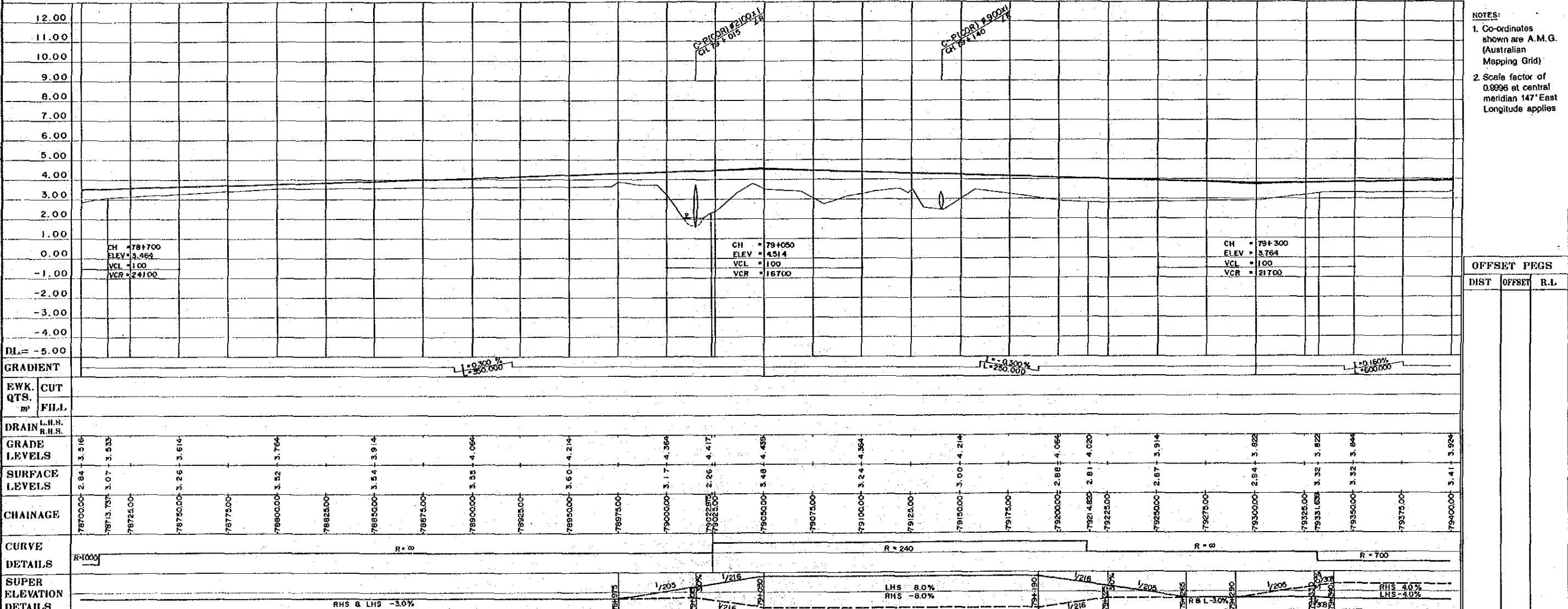
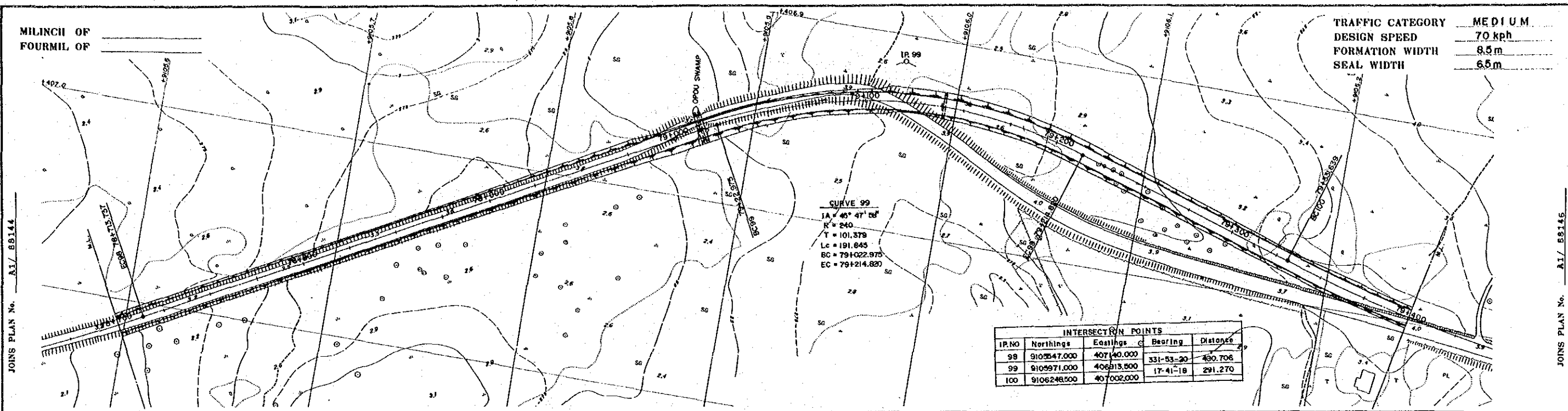
REV.	AMENDMENTS	BY	APP'D	DATE	SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKYO TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NOS	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date 25 Sep. 1989	DRAWN K.E. CHECKED C.210 DESIGNED A. Magasie CHECKED J. Kowalewski	RECOMMENDED PROJECT ENGINEER APPROVED 25. 10. 88 EXECUTIVE ENGINEER SECRETARY	SCALES 0 10 20 30 40 50 60 70 80 90 100(m) HORIZ SECTION 1:1,000 0 1 2 3 4 5 6 7 8 9 10(m) VERTICAL SECTION 1:100	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALUA SECTION) PLAN & LONGITUDINAL SECTION CH. 77 + 300 — CH. 78 + 000 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88143
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MILINCH OF
FOURMIL OF

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

JOINS PLAN No. A1/ 88144

JOINS PLAN No. A1/ 88144



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.

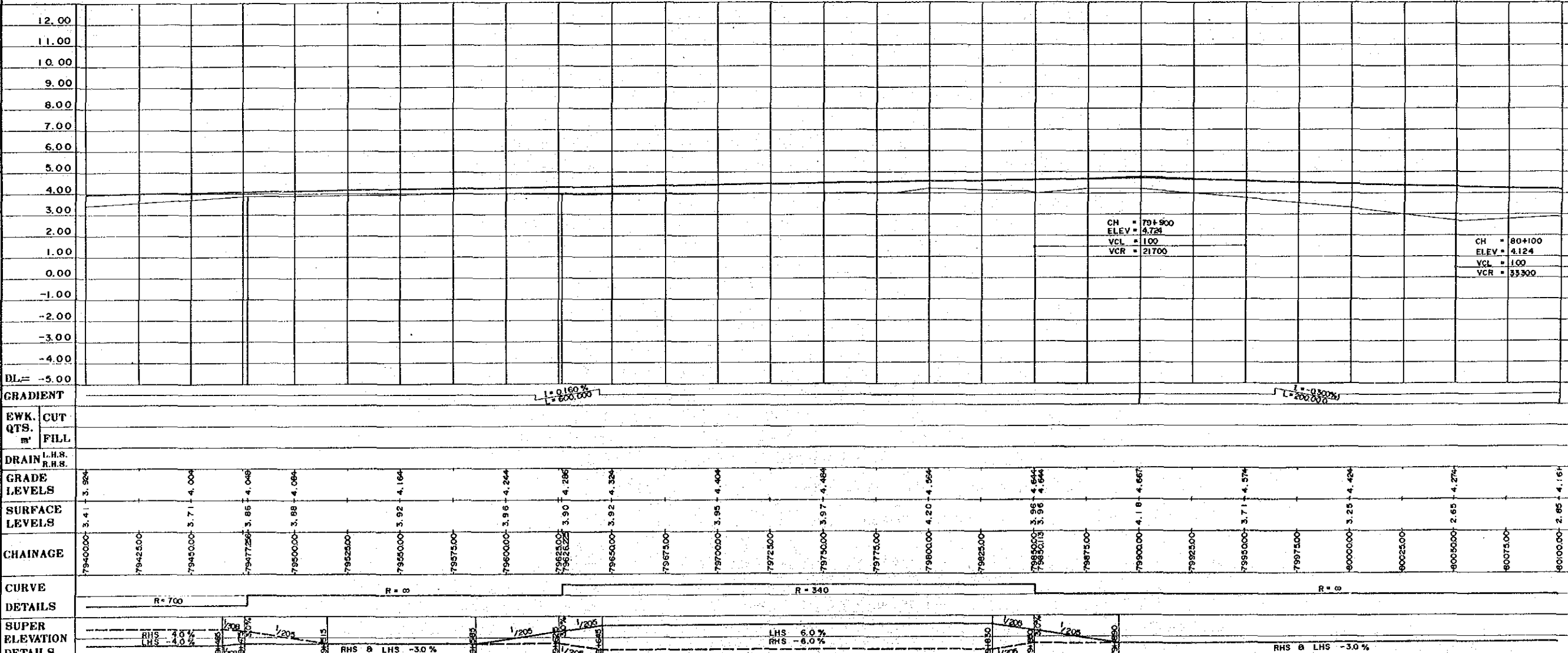
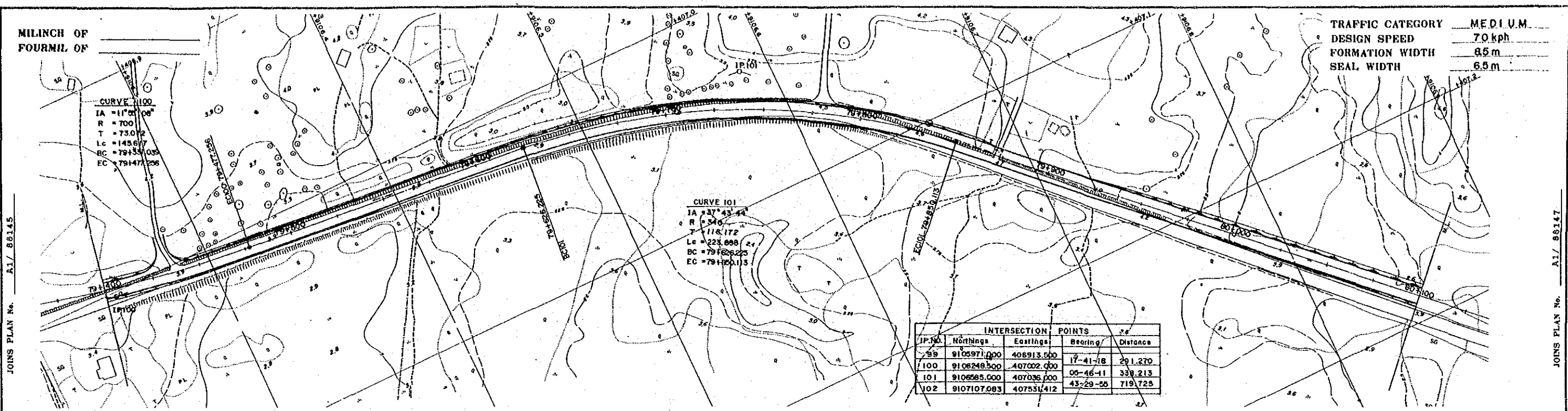
<p>REV. AMENDMENTS</p>	<p>BY APP'D DATE</p>	<p>SURVEY JICA VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKYO TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA609 SURVEY BOOK NO. 8</p>	<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY 25 Sep. 1989</p>	<p>DRAWN K.E. PROJECT ENGINEER</p>	<p>RECOMMENDED Principal Engineer APPROVED 27.10.75 EXECUTIVE ENGINEER</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. 78 + 700 — CH. 79 + 400 P.A.P.U.A. NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88145</p>	<p>SHEET 111 of 303 PROJECT No. S.C. 120-33-814/B</p>
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MILINCH OF
FOURMIL OF

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

JOINS PLAN No. A1/ 88145

JOINS PLAN No. A1/ 88147



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.

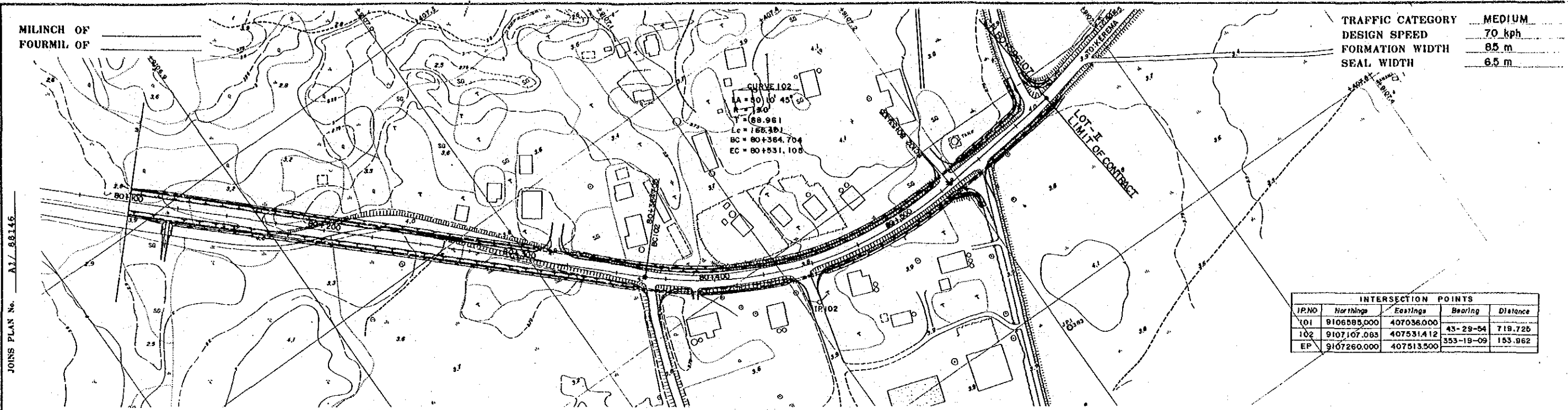
<p>REV. AMENDMENTS</p>		<p>BY APP'D DATE</p>		<p>SURVEY JICA Date VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK N.F.S</p>		<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date Principal</p>		<p>DRAWN K.E. Checked Designed Checked</p>		<p>RECOMMENDED PROJECT ENGINEER APPROVED Principal Engineer Secretary</p>		<p>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</p>		<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 79+400 — CH. 80+100 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88146</p>			
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MILINCH OF
FOURMIL OF

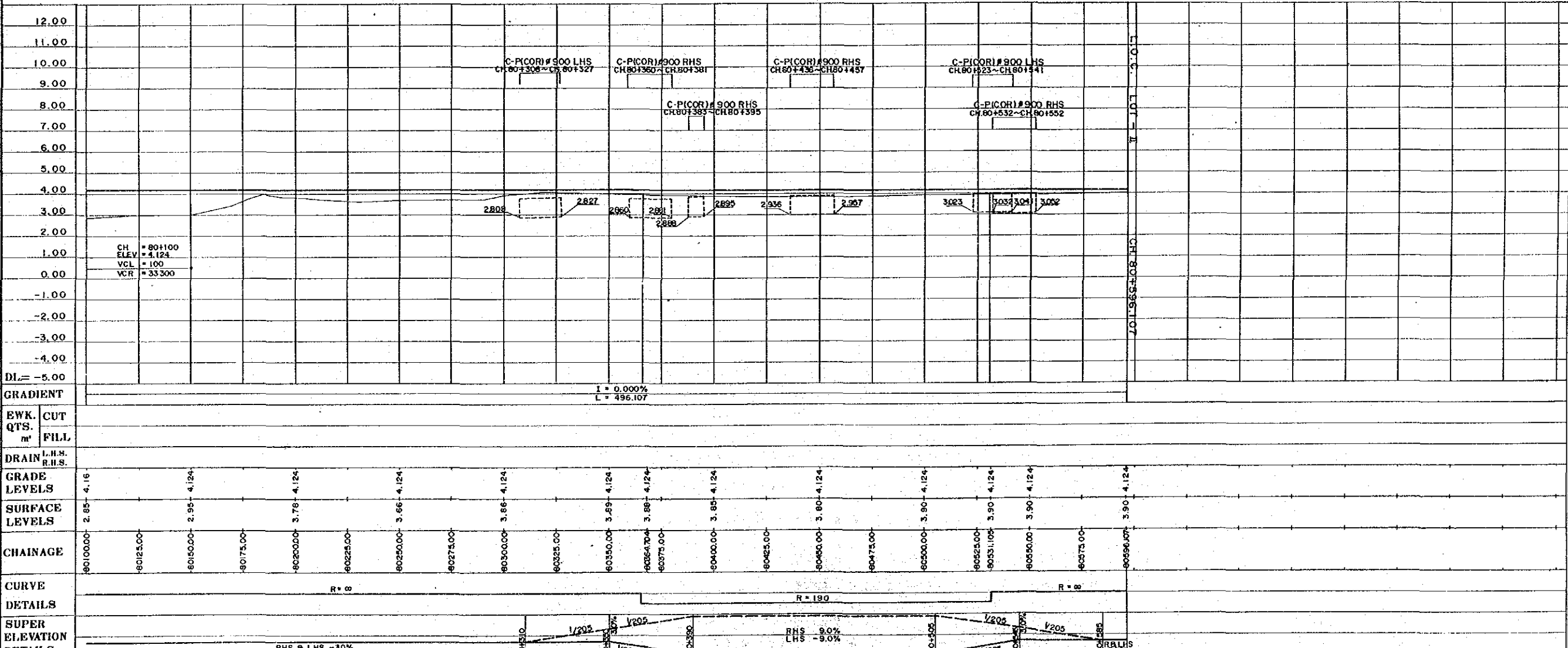
TRAFFIC CATEGORY MEDIUM
DESIGN SPEED 70 kph
FORMATION WIDTH 8.5 m
SEAL WIDTH 6.5 m

JOINS PLAN No. A1/ 88146

JOINS PLAN No.



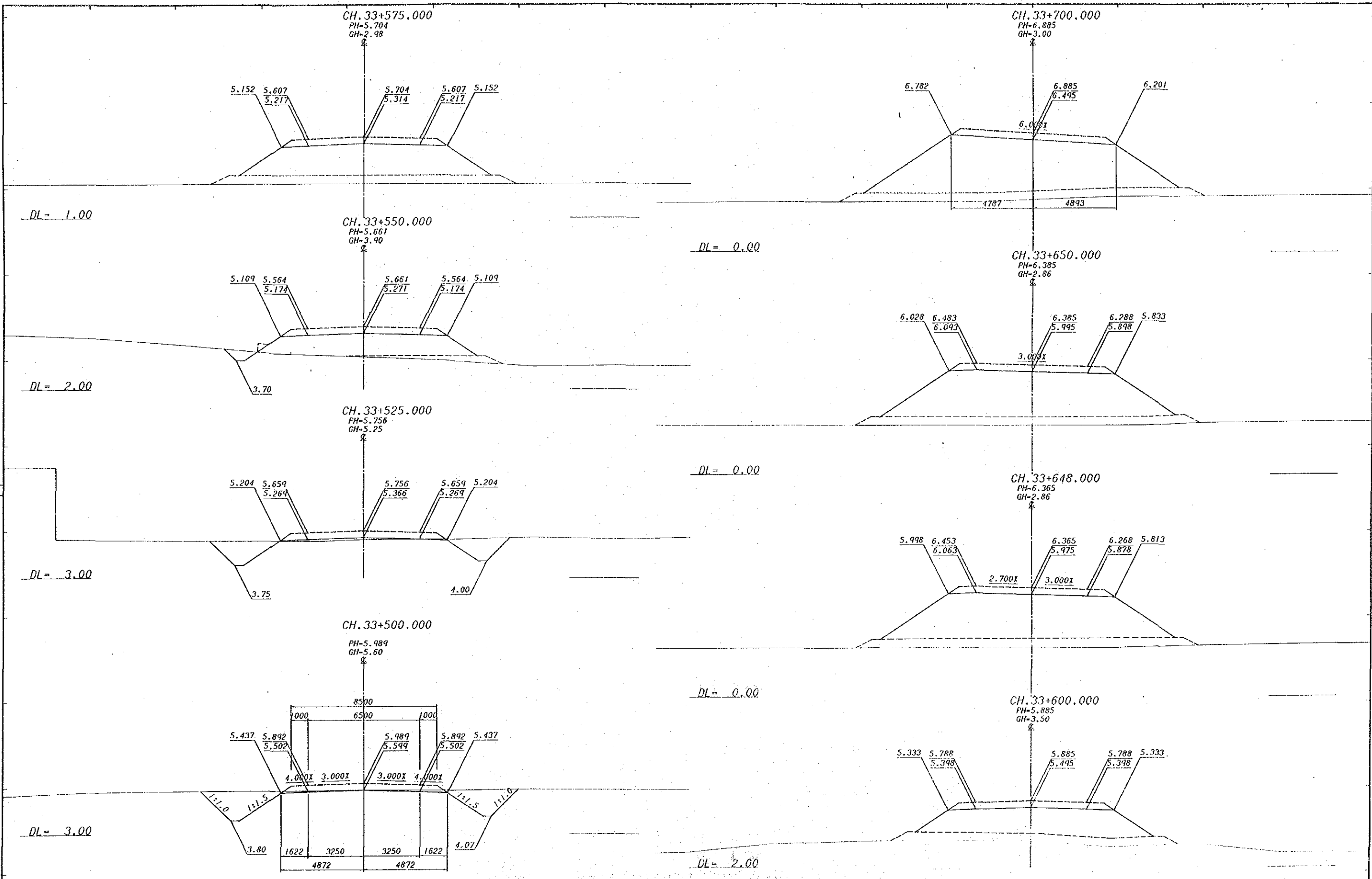
INTERSECTION POINTS				
IP NO	Northing	Eastings	Bearing	Distance
101	9106885.000	407036.000	43-29-54	718.726
102	9107107.083	407531.412	353-19-09	153.962
EP	9107260.000	407513.500		



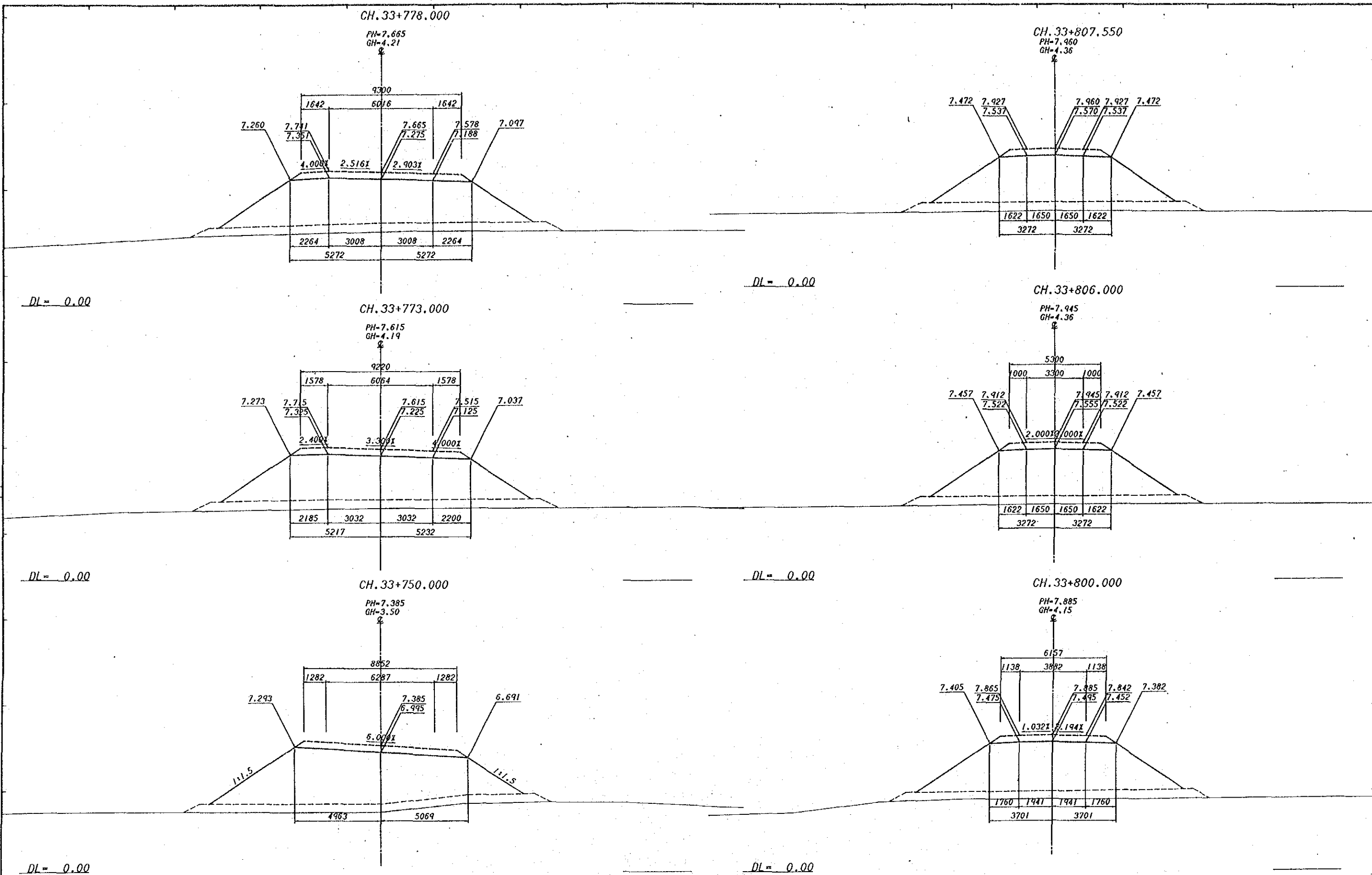
NOTES:
1. Co-ordinates shown are A.M.G. (Australian Mapping Grid)
2. Scale factor of 0.9996 at central meridian 147° East Longitude applies

OFFSET PEGS
DIST OFFSET R.L.

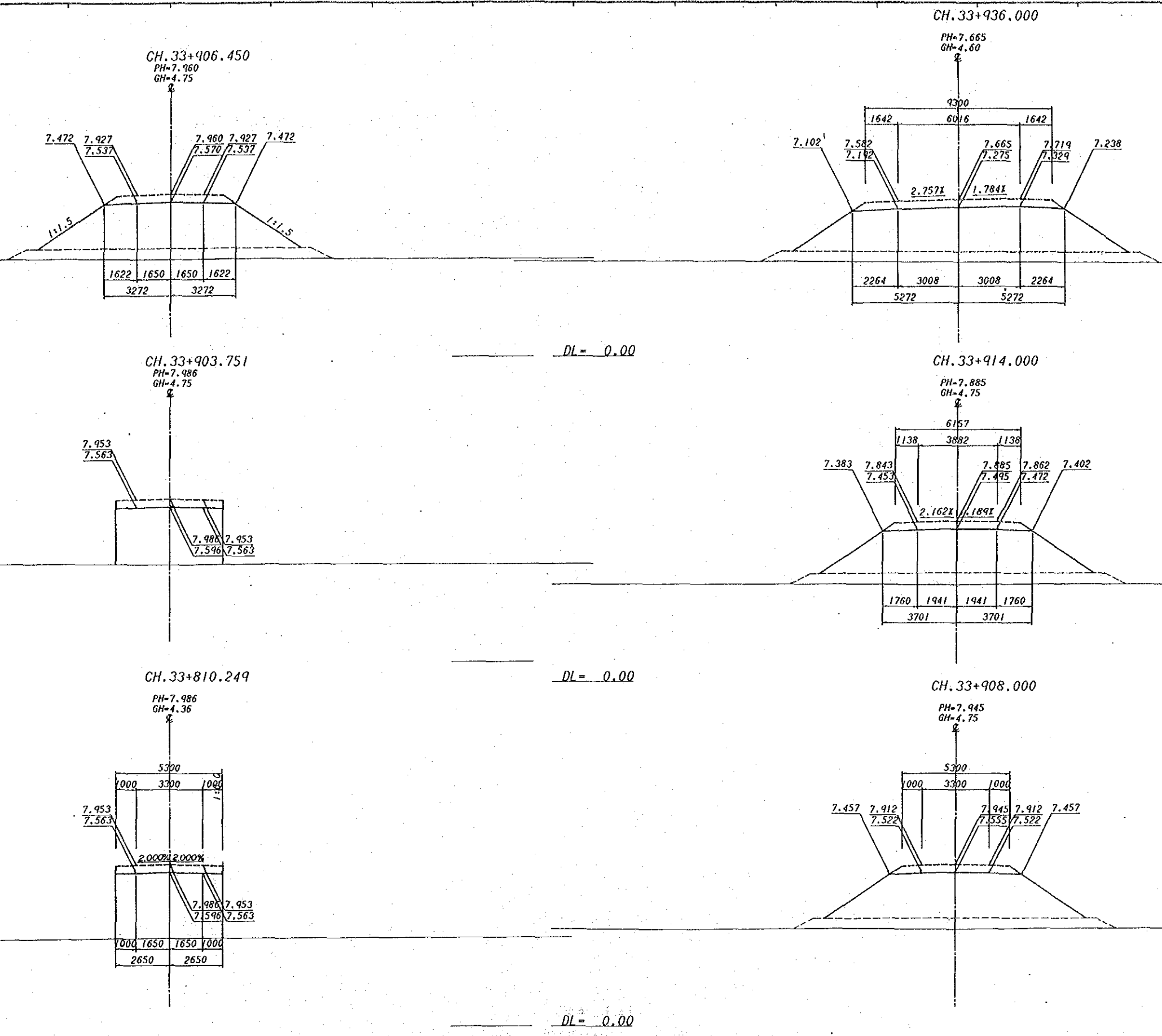
<p>REV. AMENDMENTS</p>		<p>BY APP'D DATE</p>		<p>SURVEY JICA Date</p>		<p>DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY Date: 25 Sep. 1999</p>		<p>DRAWN K.E. CHECKED DESIGNED CHECKED</p>		<p>RECOMMENDED APPROVED PRINCIPAL ENGINEER SECRETARY</p>		<p>SCALES HORIZ. SECTION 1:1,000 VERTICAL SECTION 1:100</p>		<p>CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY (BEREINA-MALALAU SECTION) PLAN & LONGITUDINAL SECTION CH. 80 + 100 — CH.80 + 596.107</p>	
				<p>VERTICAL DATUM ORIGIN MEAN SEA LEVEL TOKEA TIDE G. HORIZONTAL DATUM ORIGIN AZIMUTH DATA A.M.G. AA009 SURVEY BOOK NO. 8</p>		<p>Principal</p>		<p>PROJECT ENGINEER</p>		<p>26.10.99</p>		<p>PROJECT No. S.C.120-33-814/B</p>		<p>PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88147</p>	



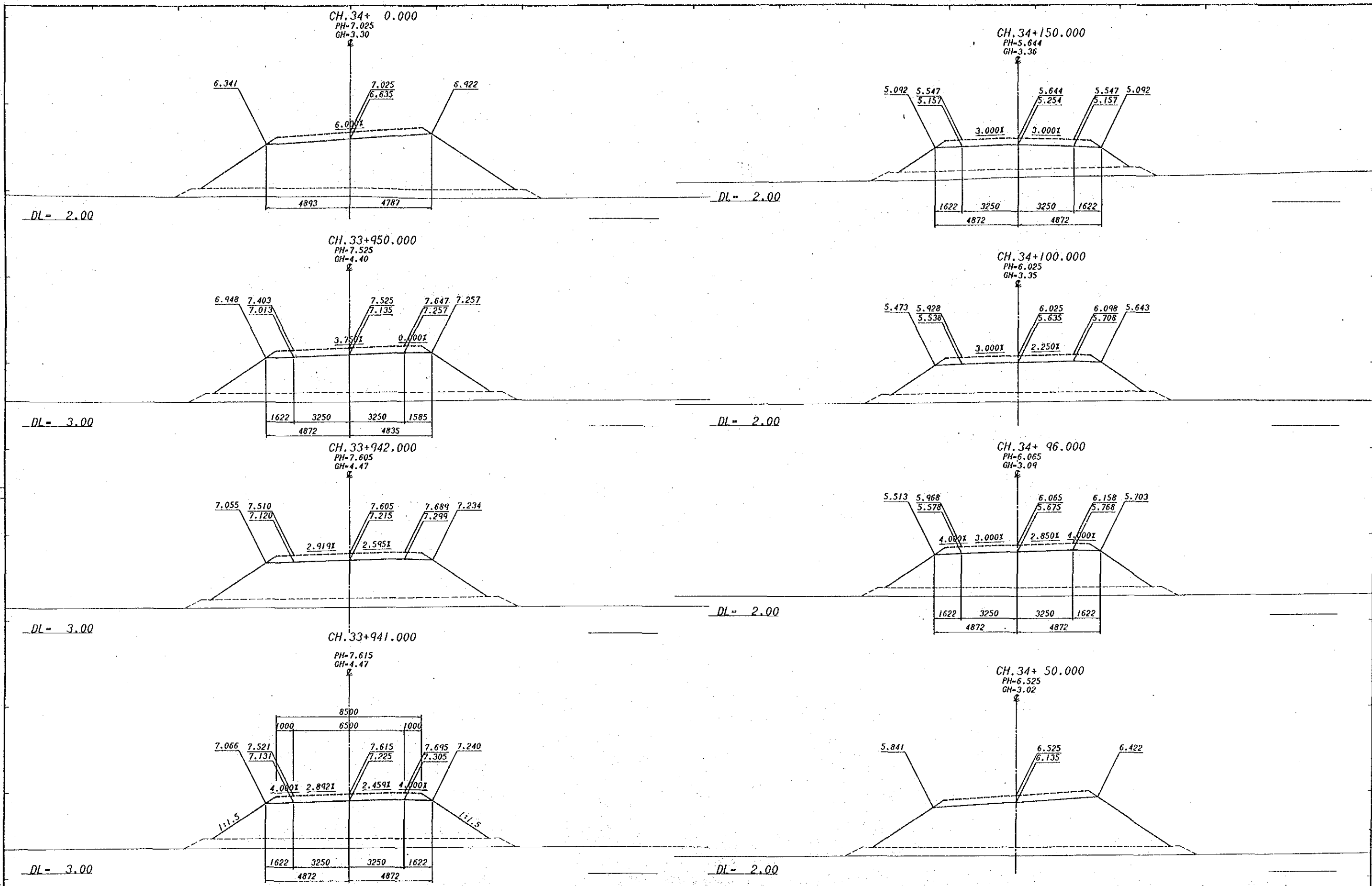
JICA SURVEY Date VERTICAL DATUM MEAN SEA LEVEL HORIZONTAL DATUM SURVEY BOOK NO.		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY J. Hain Principal 25 Sep. 1989 Date		DRAWN K. E. CHECKED DESIGNED A. Magalis CHECKED Z. Kambani		RECOMMENDED W. Kulatan PROJECT ENGINEER APPROVED J. Lomay PRINCIPAL ENGINEER 25.10.89 EXECUTIVE ENGINEER SECRETARY		SCALES HORIZONTAL & VERTICAL m. 1 : 100 SHEET 114 OF 303 PROJECT No. S.C. 120-33-814/B		CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION CROSS SECTIONS CH. 33 + 500 — CH. 33 + 700 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88148	
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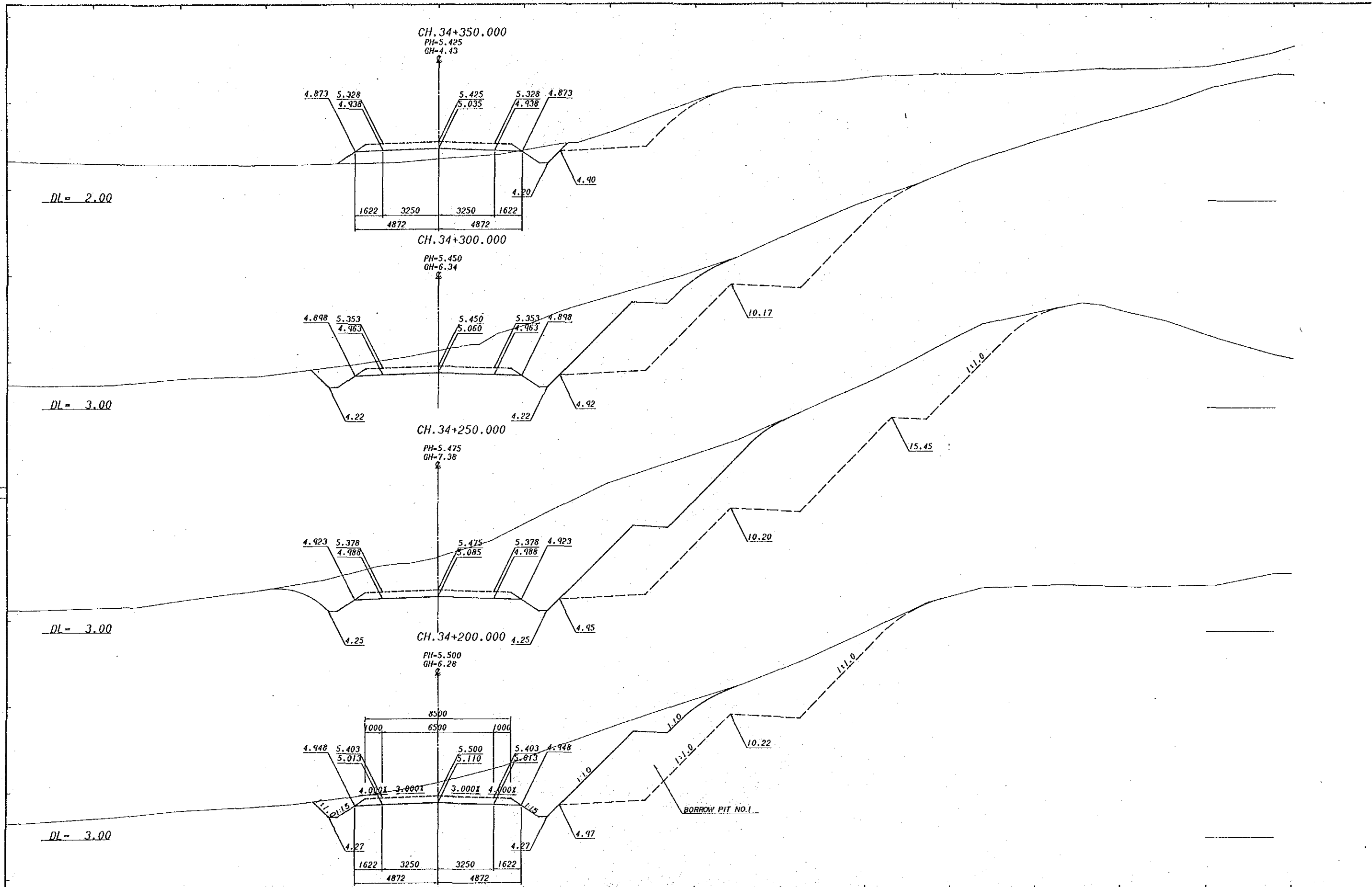
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VERTICAL DATUM MEAN SEA LEVEL		J. H. H. H. 25 Sep. 1988		CHECKED [Signature]		APPROVED [Signature]		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
HORIZONTAL DATUM		Date		PROJECT ENGINEER [Signature]		PRINCIPAL ENGINEER [Signature]		CROSS SECTIONS	
SURVEY BOOK NO.		Date		EXECUTIVE ENGINEER [Signature]		SECRETARY [Signature]		CH. 33 + 750 — CH. 33 + 807.556	
AMENDMENTS		BY		DATE		PROJECT No. S.C. 120-33-814/B		DRAWING No. A1/ 88149	
						SHEET 115 OF 303		DEPARTMENT OF WORKS	



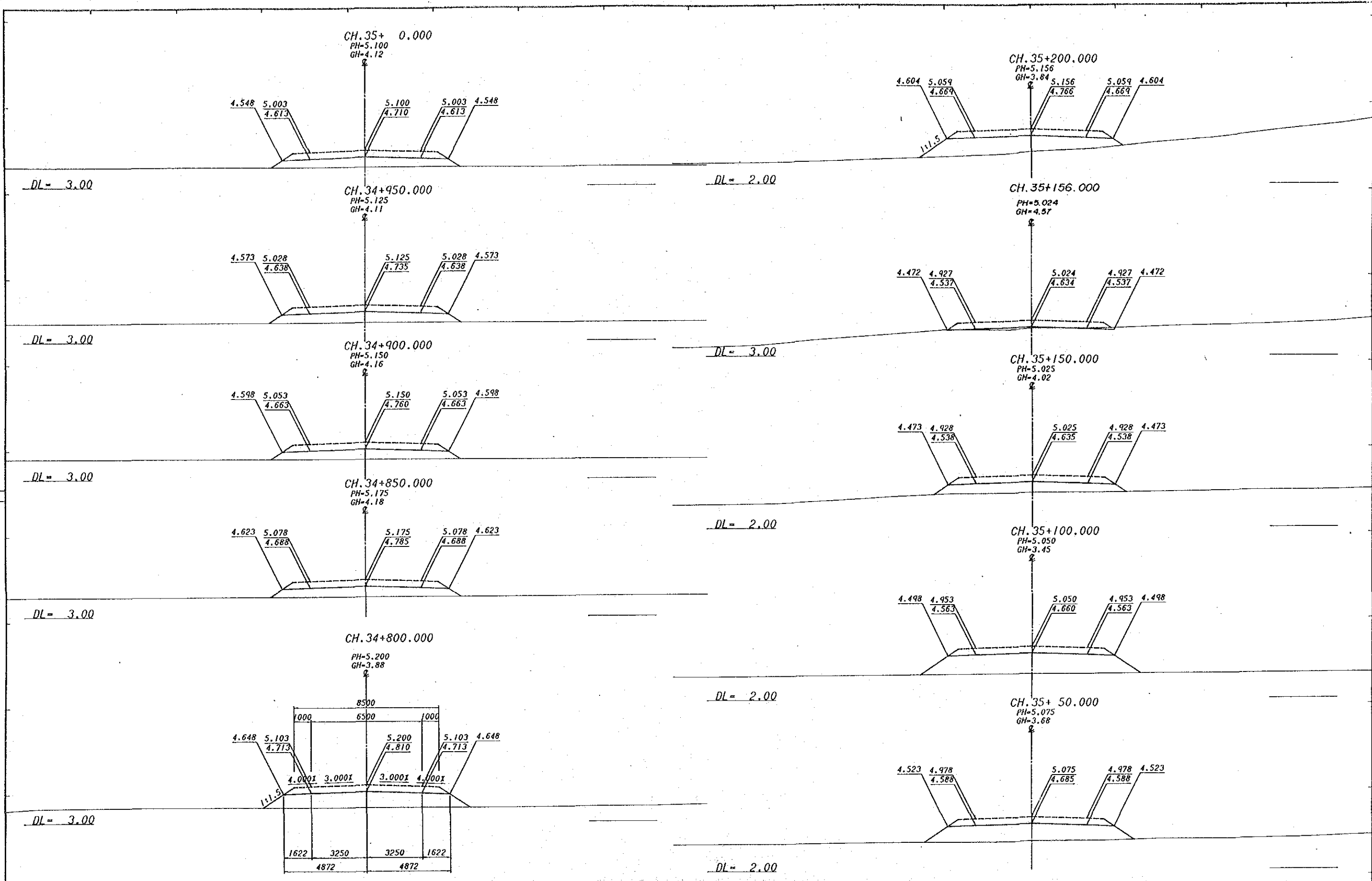
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VERTICAL DATUM MEAN SEA LEVEL		JAPAN INTERNATIONAL CO-OPERATION AGENCY		CHECKED [Signature]		PROJECT ENGINEER [Signature]		PROJECT No. S.C.120-33-814/B		DRAWING No. A1/ 88150	
HORIZONTAL DATUM		25 Sep. 1989		DESIGNED [Signature]		APPROVED [Signature]		SHEET 116 OF 303		PAPUA NEW GUINEA DEPARTMENT OF WORKS	
SURVEY BOOK NO.8		Date		CHECKED [Signature]		SECRETARY [Signature]					
REV.	AMENDMENTS	BY	APP'D	DATE							



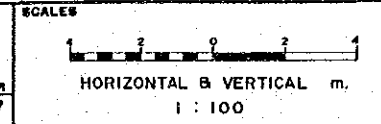
REV. AMENDMENTS BY APP'D DATE		SURVEY JICA Date VERTICAL DATUM MEAN SEA LEVEL HORIZONTAL DATUM SURVEY BOOK NO.S	DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY J. J. J. J. 25 Sep. 1989 Date	DRAWN K. E. CHECKED DESIGNED A. M. M. CHECKED T. K. K.	RECOMMENDED PROJECT ENGINEER APPROVED F. S. S. SECRETARY	SCALE HORIZONTAL & VERTICAL m. 1 : 100 SHEET 117 OF 303 PROJECT No. S.C.120-33-814/B	CENTRAL / GULF PROVINCES TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION CROSS SECTIONS CH. 33 + 941 — CH. 34 + 150 PAPUA NEW GUINEA DEPARTMENT OF WORKS DRAWING No. A1/ 88151
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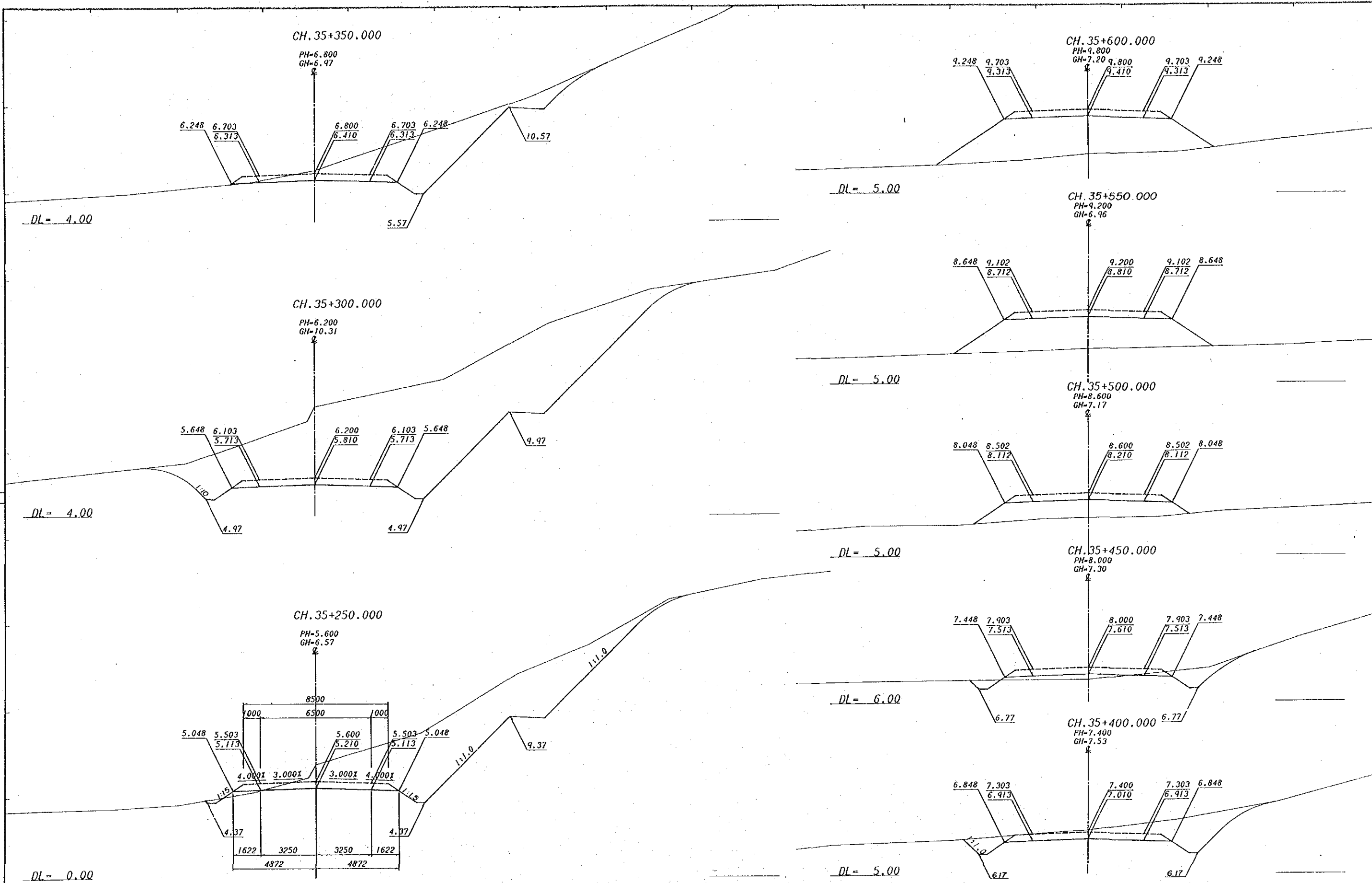


SURVEY		DESIGN		DRAWN		RECOMMENDED		SCALES		CENTRAL / GULF PROVINCES	
JICA		JAPAN INTERNATIONAL CO-OPERATION AGENCY		K.E.		Principal Engineer		1:100		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
VERTICAL DATUM MEAN SEA LEVEL		Date		PROJECT ENGINEER		APPROVED		HORIZONTAL & VERTICAL		CROSS SECTIONS	
HORIZONTAL DATUM		Date		Executive Engineer		S.C. 10.85		1:100		CH. 34 + 200 — CH. 34 + 350	
SURVEY BOOK NO.8		25 Sep. 1985		Date		SECRETARY		SHEET 118 OF 303		PROJECT No. S.C.120-33-814/B	
AMENDMENTS		BY		APP'D		DATE		SHEETS		DRAWING No.	
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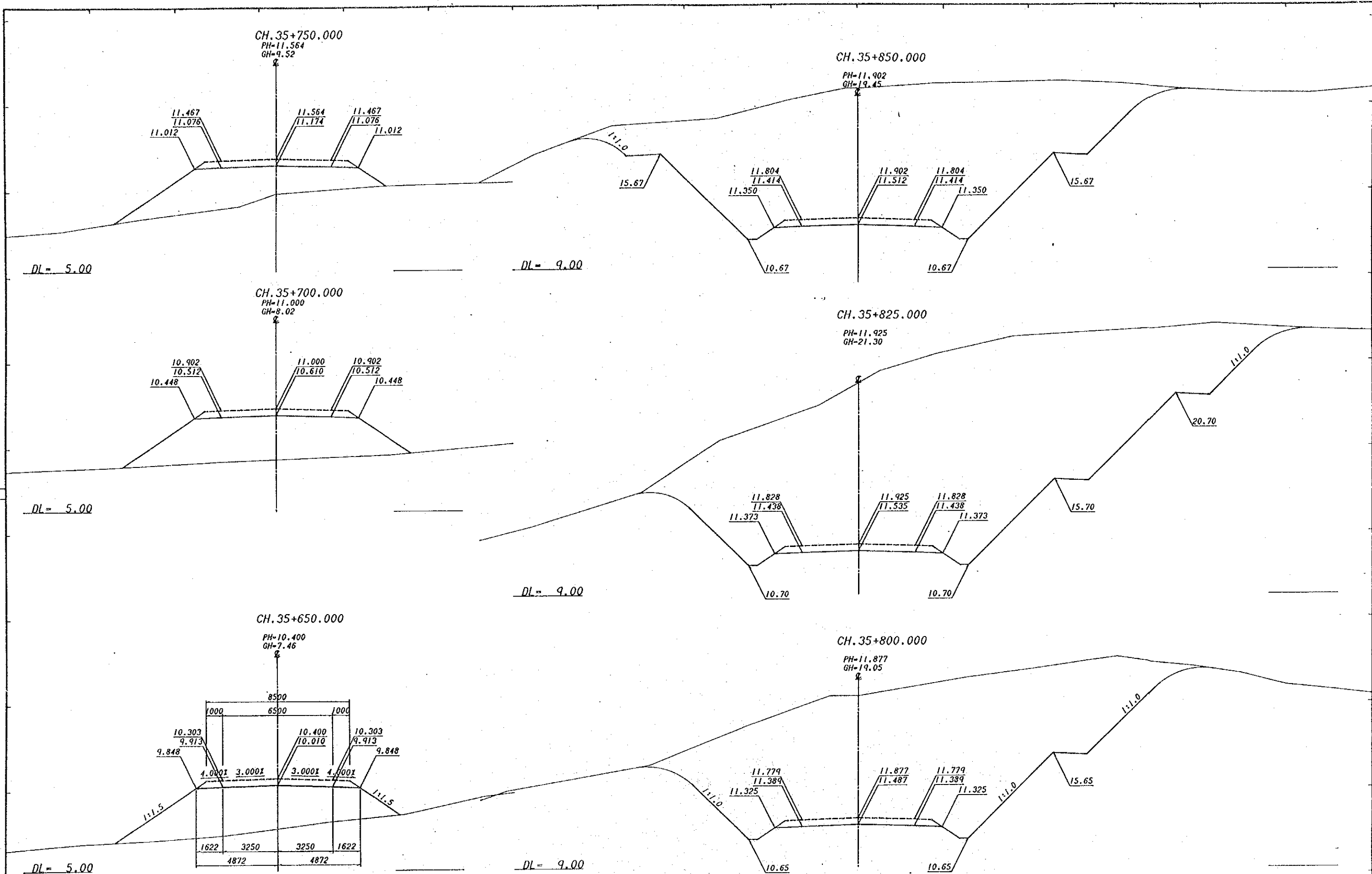


SURVEY JICA		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY		DRAWN K.E.		RECOMMENDED <i>[Signature]</i>		CENTRAL / GULF PROVINCES	
VERTICAL DATUM MEAN SEA LEVEL		J. H. H. 25 Sep. 1989		CHECKED <i>[Signature]</i>		APPROVED <i>[Signature]</i>		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
HORIZONTAL DATUM		Principal		PROJECT ENGINEER <i>[Signature]</i>		PRINCIPAL ENGINEER S. A. #		CROSS SECTIONS	
SURVEY BOOK N.O.		Date		EXECUTIVE ENGINEER <i>[Signature]</i>		SECRETARY FAS (13)		CH. 34 + 800 — CH. 35 + 200	
AMENDMENTS		BY APP'D DATE		SHEET 120 OF 303		PROJECT No. S.C.120-33-814/B		PAPUA NEW GUINEA DEPARTMENT OF WORKS	
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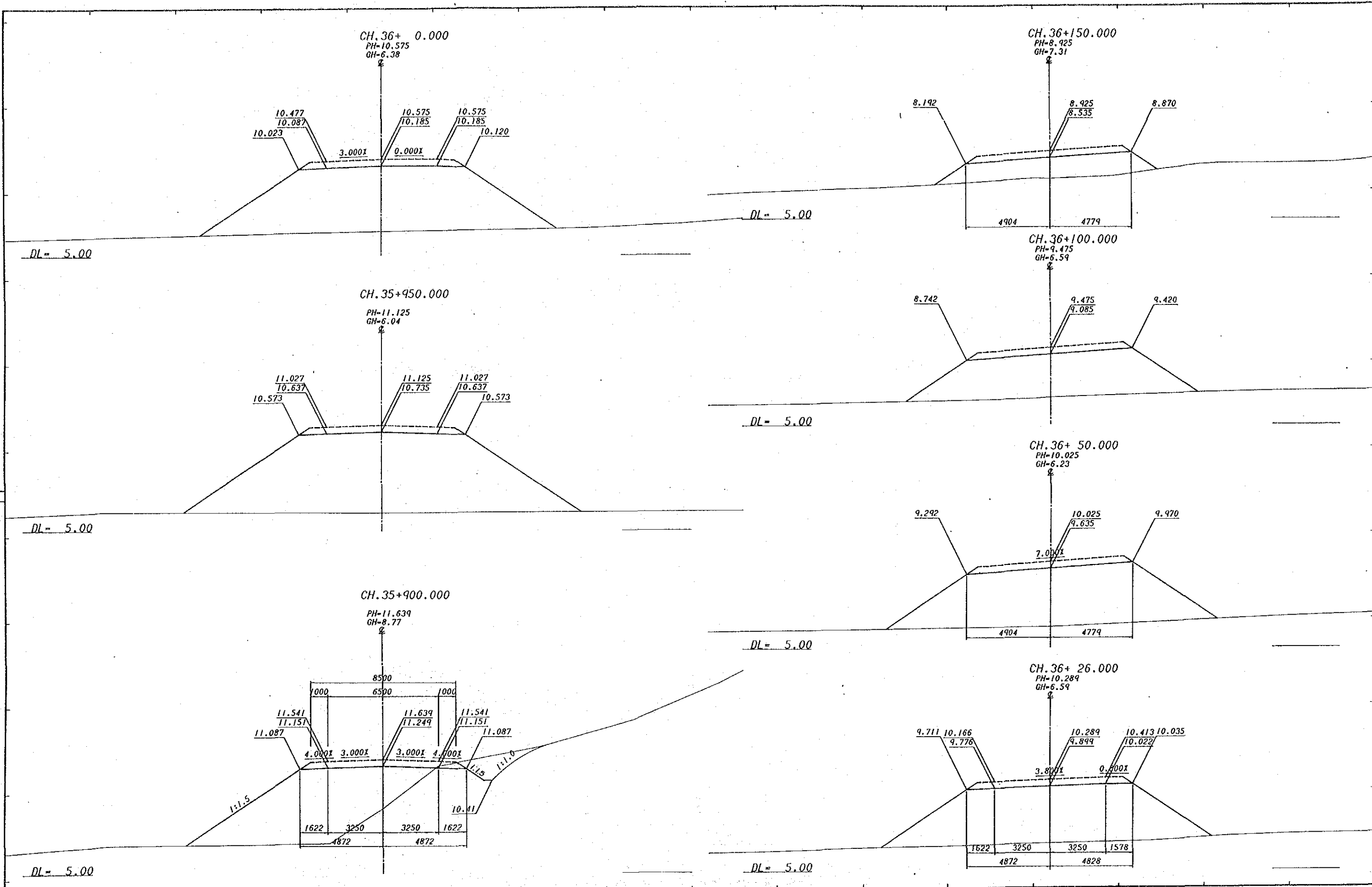




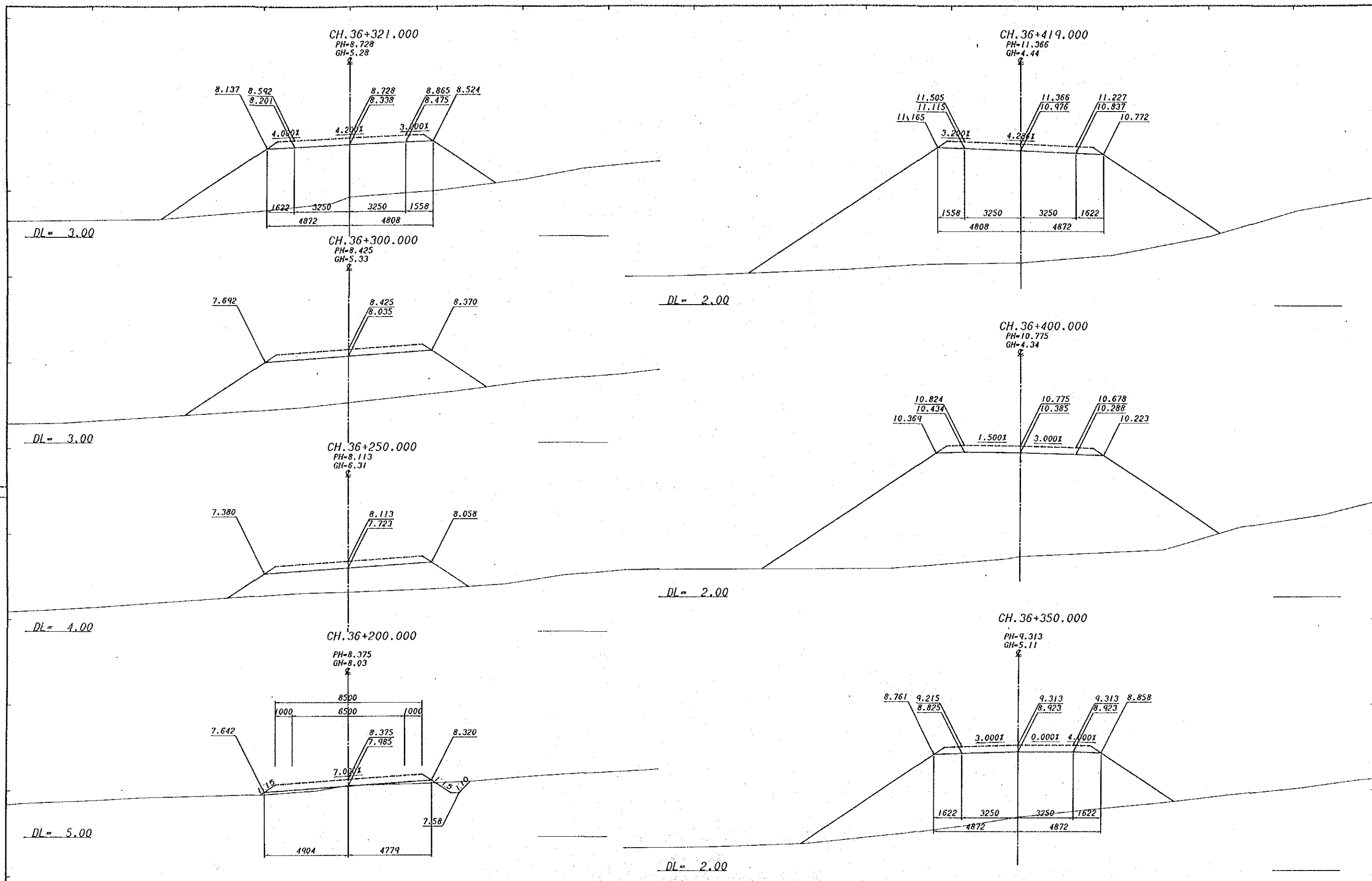
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JICA		JAPAN INTERNATIONAL CO-OPERATION AGENCY		K.E.		PROJECT ENGINEER		1:100		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
VERTICAL DATUM MEAN SEA LEVEL		Principal J. H. ...		CHECKED A. Magara		APPROVED Principal Engineer		HORIZONTAL & VERTICAL		CROSS SECTIONS	
HORIZONTAL DATUM		25 Sep. 1989		CHECKED P. Kamban		EXECUTIVE ENGINEER		1:100		CH. 35 + 250 — CH. 35 + 600	
SURVEY BOOK NO. 5		Date		Principal		Principal Engineer		SHEET 121 of 303		PAPUA NEW GUINEA	
AMENDMENTS		BY APP'D DATE		Principal		Principal Engineer		PROJECT No. S.C.120-33-814/B		DEPARTMENT OF WORKS	
REV.		BY APP'D DATE		Principal		Principal Engineer		SHEET 121 of 303		DRAWING No. A1/ 88155	



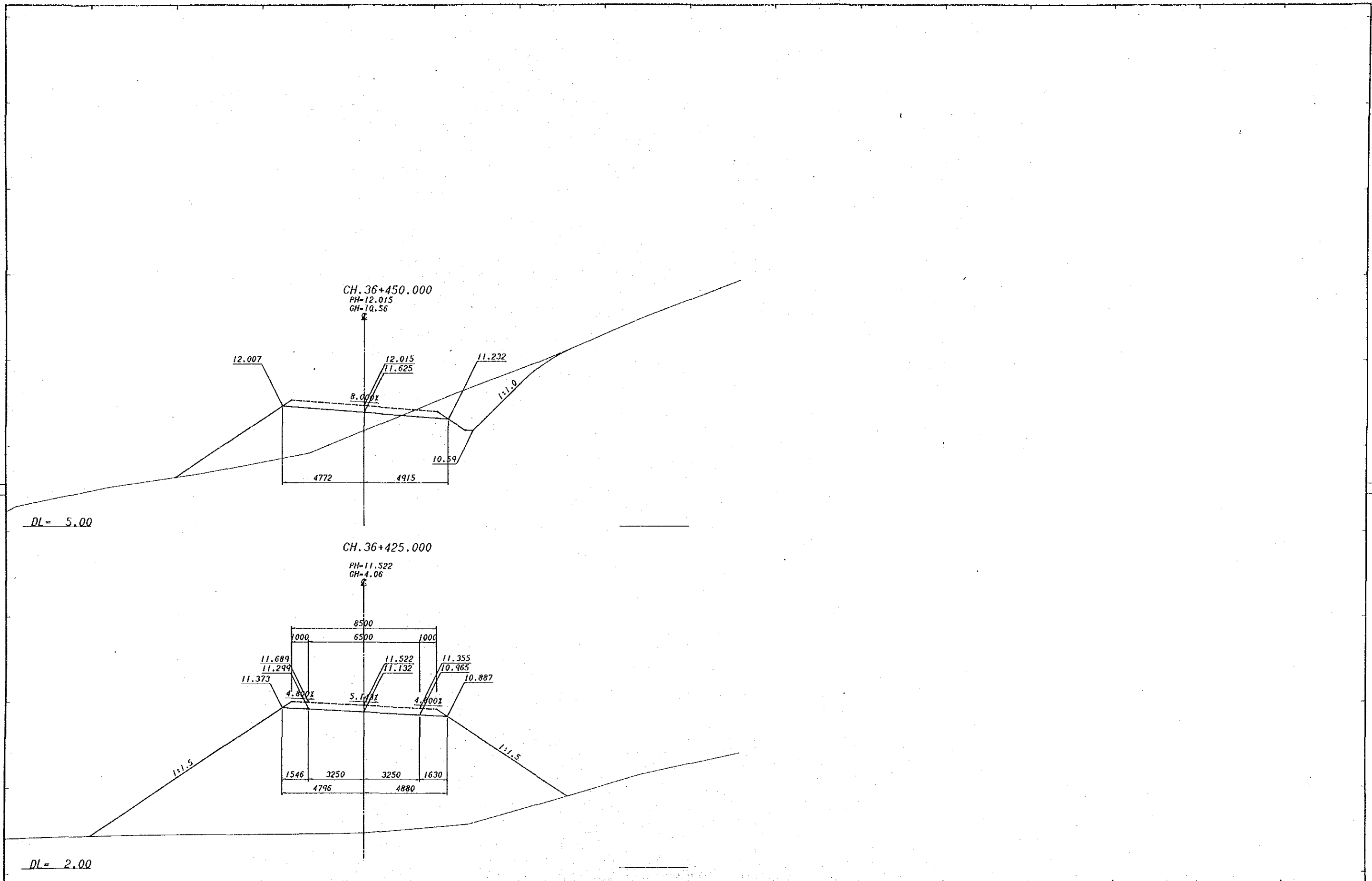
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VERTICAL DATUM MEAN SEA LEVEL		JAPAN INTERNATIONAL CO-OPERATION AGENCY		PROJECT ENGINEER W. K. ...		PRINCIPAL ENGINEER Atlong		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
HORIZONTAL DATUM		Principal J. Halim 25 Sep. 1989		EXECUTIVE ENGINEER W. K. ...		APPROVED F. ... 26.11.89		CROSS SECTIONS	
SURVEY BOOK N ^o . 8		Date		CHECKED A. ...		FA 1(1) SECRETARY		CH. 35 + 650 — CH. 35 + 850	
AMENDMENTS		BY APP'D DATE		CHECKED Z. ...		SHEET 122 OF 303		PAPUA NEW GUINEA DEPARTMENT OF WORKS	
				DATE		PROJECT No. S.C. 120-83-814/B		DRAWING No. A1/ 8 8 1 5 6	



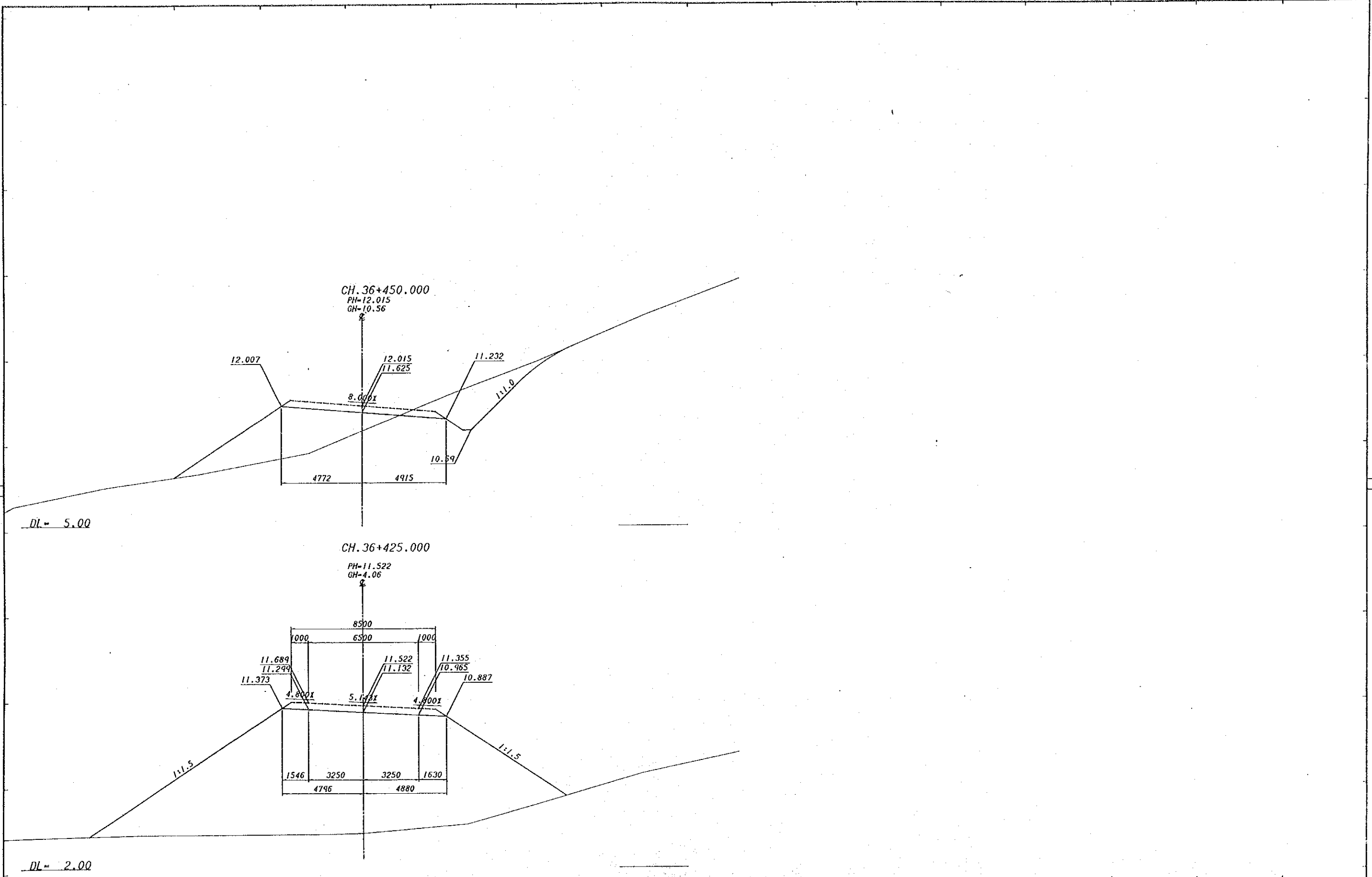
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VERTICAL DATUM MEAN SEA LEVEL		J. H. H. 25 Sep. 1989		CHECKED A. Magara		APPROVED 25.10.89		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
SURVEY BOOK NO. 8		Date		EXECUTIVE ENGINEER		SECRETARY		CROSS SECTIONS	
AMENDMENTS		BY APP'D DATE		PROJECT ENGINEER		PROJECT No. S.C. 120-33-814/B		CH. 35 + 900 — CH. 36 + 150	
				SHEET 123 OF 303		DEPARTMENT OF WORKS		DRAWING No. A1/ 8 8 1 5 7	



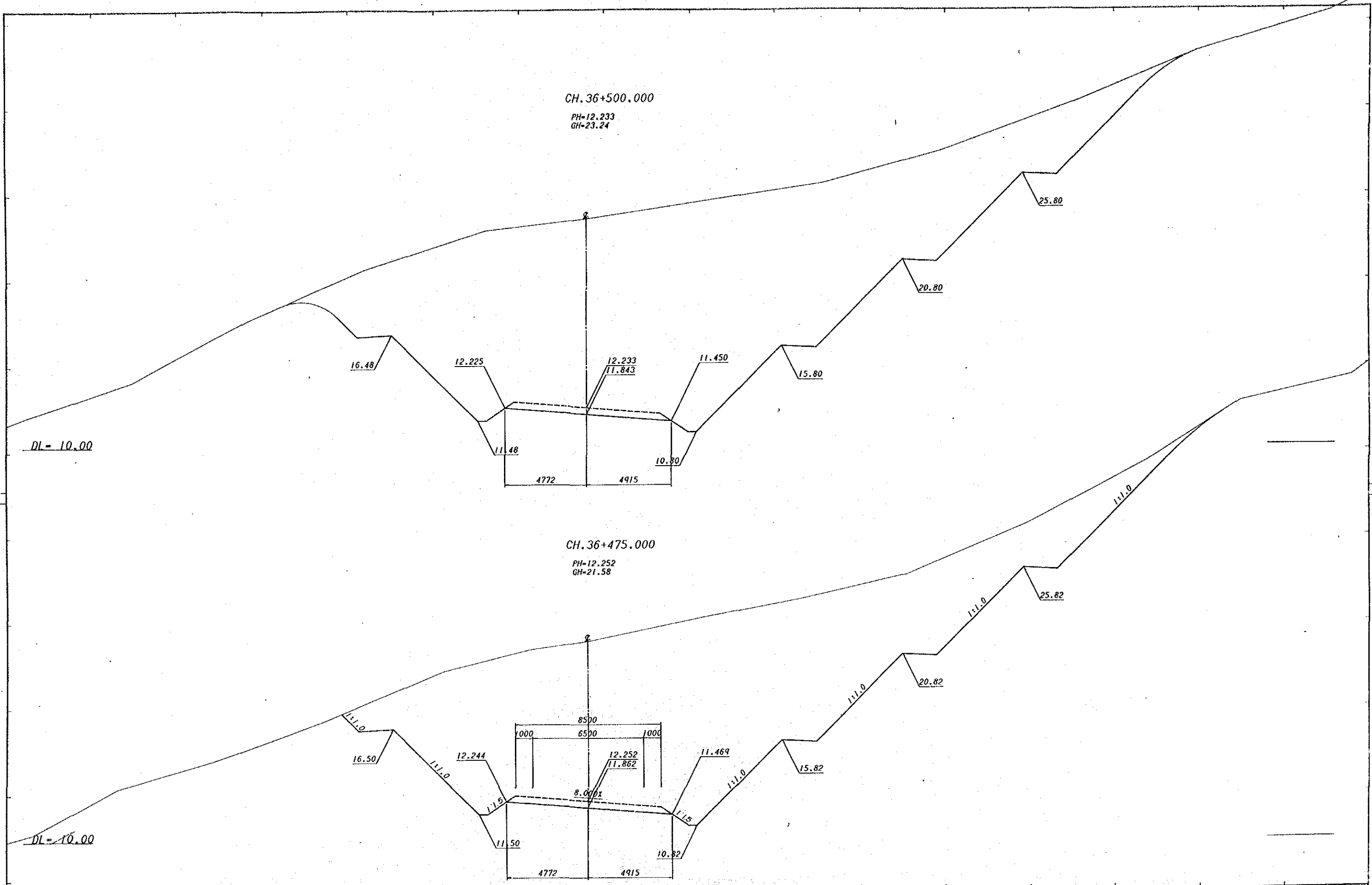
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VERTICAL DATUM MEAN SEA LEVEL		J. H. H. 25 Sep. 1989		CHECKED A. Magata		PROJECT ENGINEER W. K. L.		APPROVED 25.10.89		PAPUA NEW GUINEA		DRAWING No. A1/ 88158	
HORIZONTAL DATUM		Date		CHECKED T. Kaneko		EXECUTIVE ENGINEER		SECRETARY		DEPARTMENT OF WORKS		REV.	
SURVEY BOOK NO.		BY		APP'D		DATE		SHEET 124 OF 303		PROJECT No. S.C. 120-33-814/B			



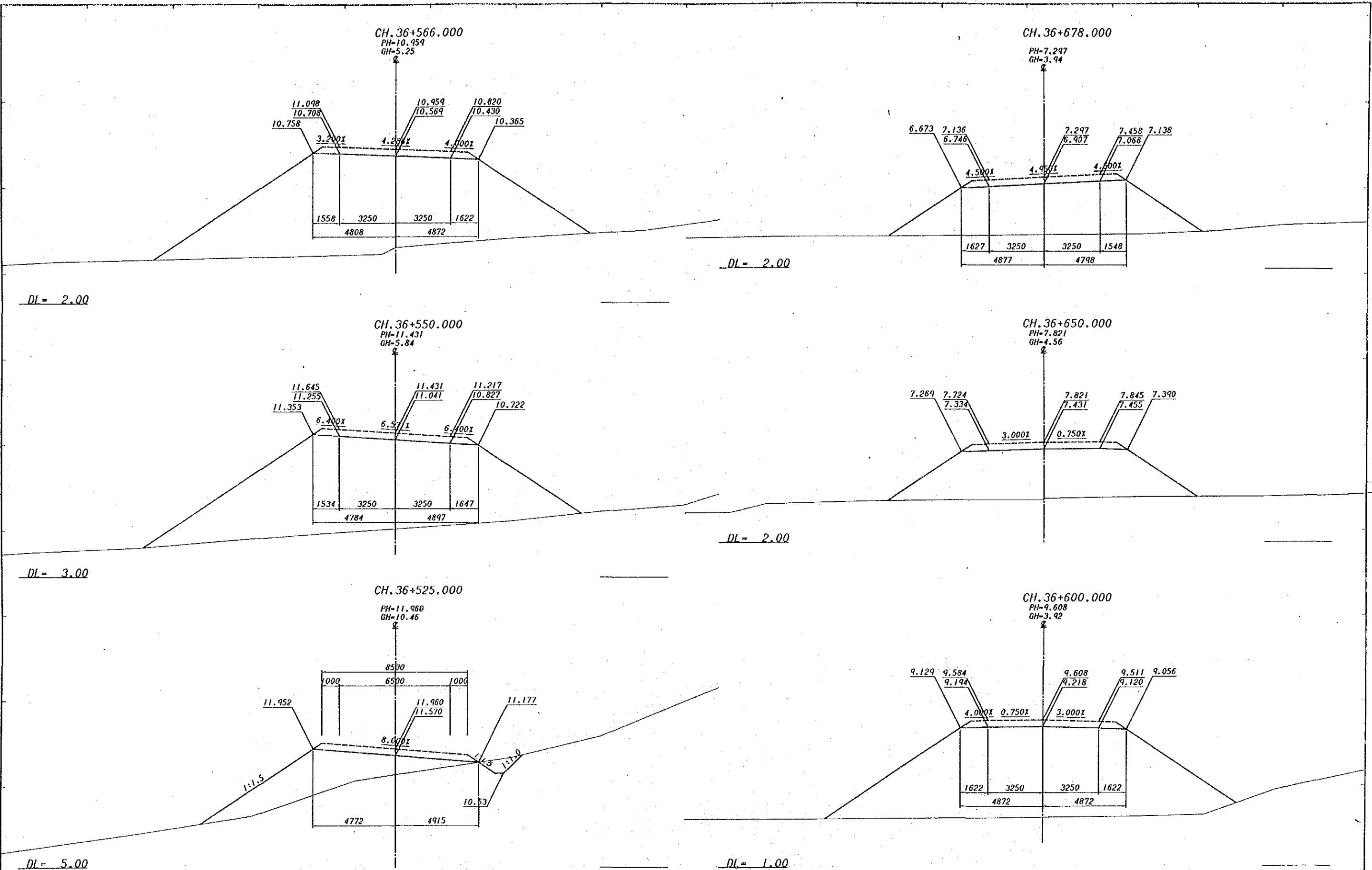
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					JICA		JAPAN INTERNATIONAL CO-OPERATION AGENCY		K.E.		Principal Engineer		1 : 100		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
					Date		Date		PROJECT ENGINEER		Principal Engineer		HORIZONTAL & VERTICAL m.		CROSS SECTIONS	
					MEAN SEA LEVEL		J. H. H. H.		25 Sep. 1989		APPROVED		1 : 100		CH. 36 + 425 — CH. 36 + 450	
					HORIZONTAL DATUM		Principal		Date		SECRETARY		PROJECT No.		PAPUA NEW GUINEA DEPARTMENT OF WORKS	
					SURVEY BOOK No. 8		7. K. H. H.		EXECUTIVE ENGINEER		SECRETARY		S.C. 120-83-814/B		DRAWING No. A1/ 88159	
													SHEET 125 OF 303			



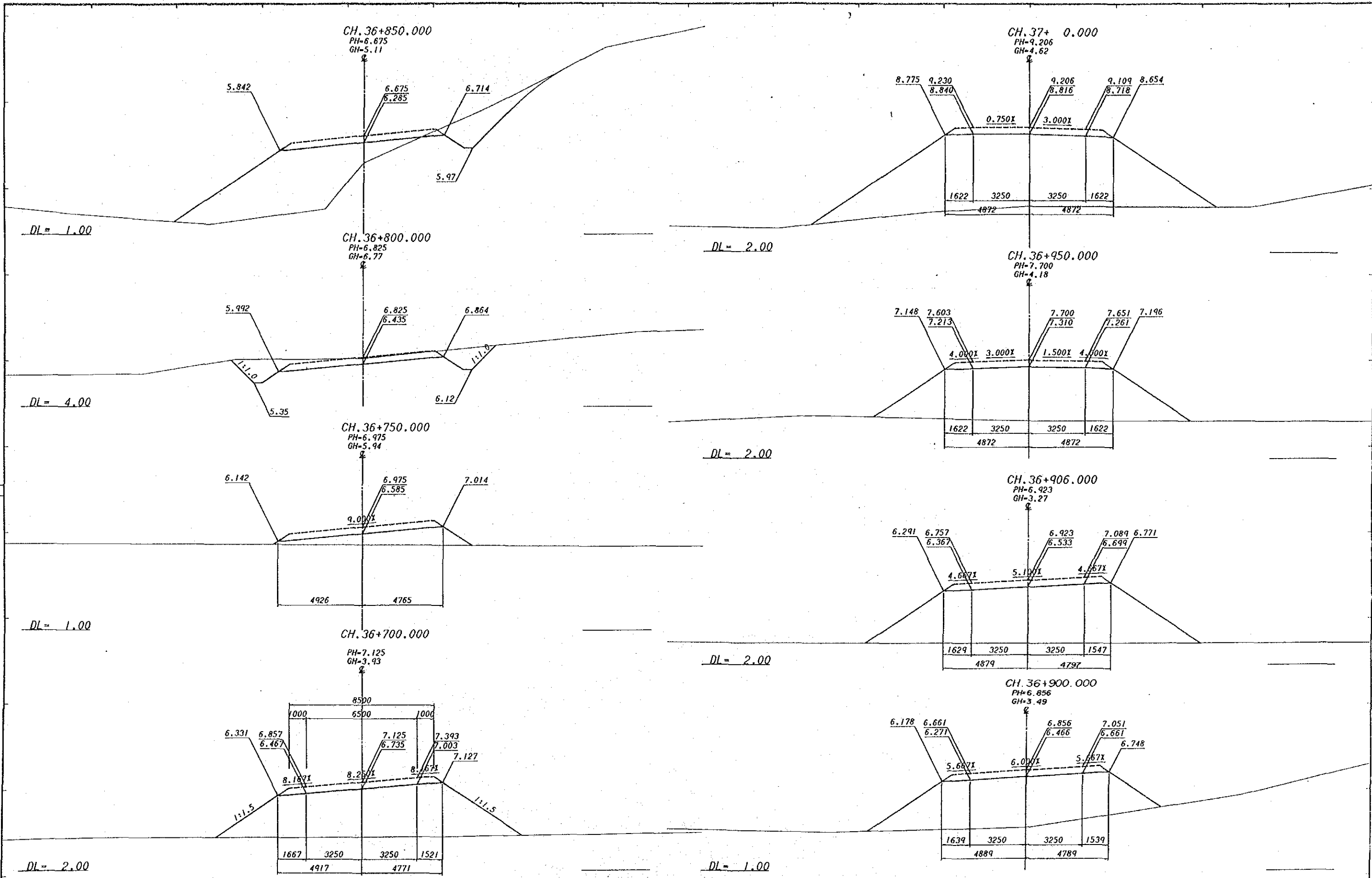
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							JICA		JAPAN INTERNATIONAL CO-OPERATION AGENCY		K.E.		A. Hanga		1:100		TRANS-ISLAND HIGHWAY - BEREINA - MALALUA SECTION	
							VERTICAL DATUM MEAN SEA LEVEL.		Principal		PROJECT ENGINEER		PRINCIPAL ENGINEER		HORIZONTAL & VERTICAL m.		CROSS SECTIONS	
							HORIZONTAL DATUM		25 Sep. 1989		EXECUTIVE ENGINEER		SECRETARY		1:100		CH. 36 + 425 — CH. 36 + 450	
							SURVEY BOOK No. S		Date		EXECUTIVE ENGINEER		SECRETARY		SHEET 125 OF 303		DRAWING No. A1/ 88159	
															PROJECT No. S.C. 120-33-814/B		PAPUA NEW GUINEA DEPARTMENT OF WORKS	



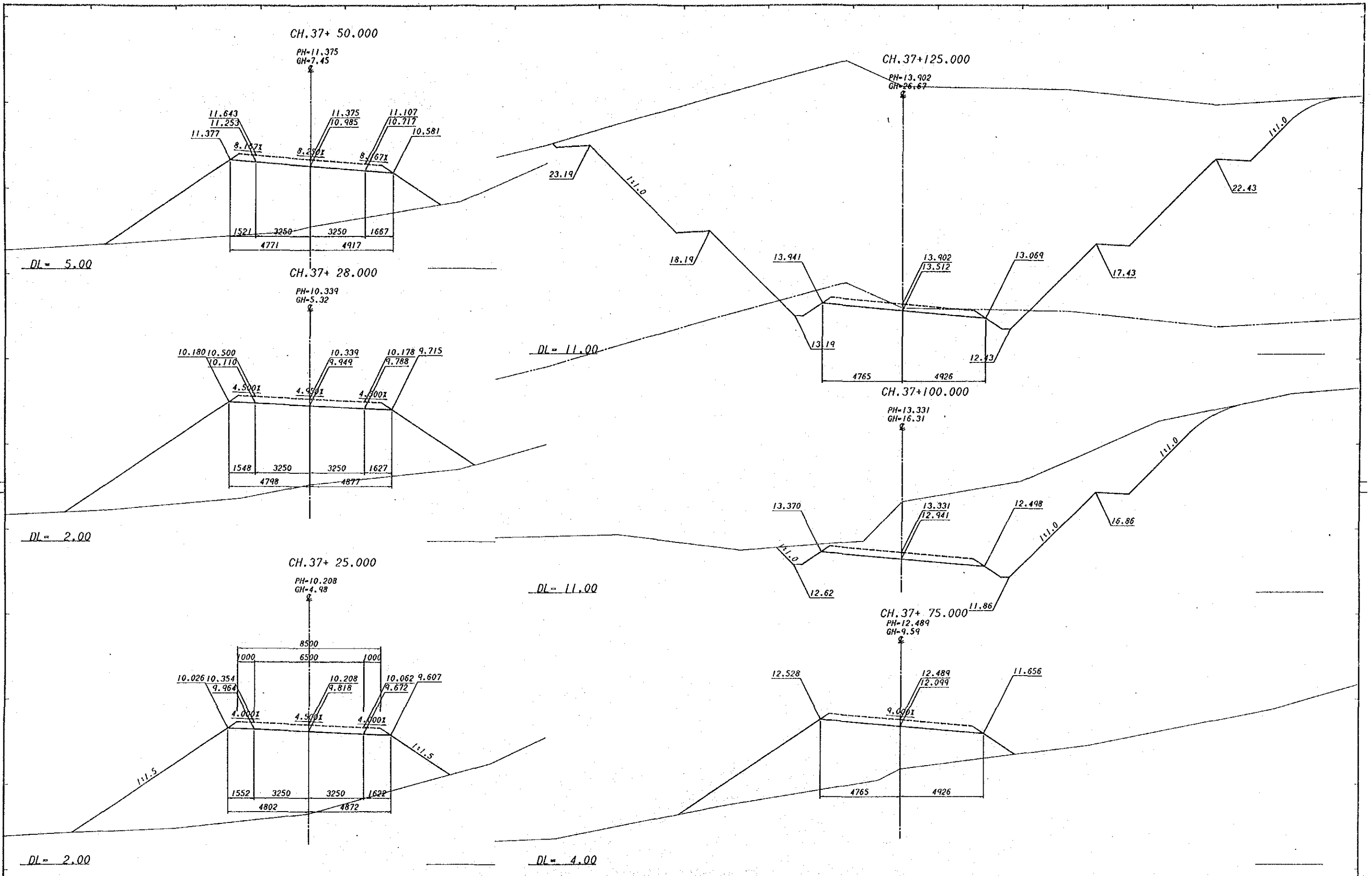
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							JICA		JAPAN INTERNATIONAL CO-OPERATION AGENCY		K.E.		Principal Engineer		1:100		TRANS-ISLAND HIGHWAY BEREINA-MALALUA SECTION	
							VERTICAL DATUM MEAN SEA LEVEL		J. H. H. H.		PROJECT ENGINEER		APPROVED		HORIZONTAL & VERTICAL m.		CROSS SECTIONS	
							HORIZONTAL DATUM		25 Sep. 1989		EXECUTIVE ENGINEER		25.10.89		1:100		CH. 36 + 475 — CH. 36 + 500	
							SURVEY BOOK NRS		Date		SECRETARY		PROJECT No.		SHEET		PAPUA NEW GUINEA DEPARTMENT OF WORKS	
									Date		SECRETARY		126 OF 303		S.C. 120-33-814/B		DRAWING No. A1/ 88160	



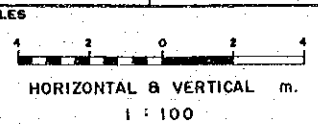
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							VERTICAL DATUM MEAN SEA LEVEL		J. H. H. Principal		L. K. E. PROJECT ENGINEER		A. M. A. PRINCIPAL ENGINEER		HORIZONTAL & VERTICAL m. 1 : 100		SHEET 127 OF 303		DRAWING No. A1/ 88161	
							SURVEY BOOK No.		25 Sep. 1989		F. L. S. SECRETARY		PROJECT No. S.C. 120-33-814/B							

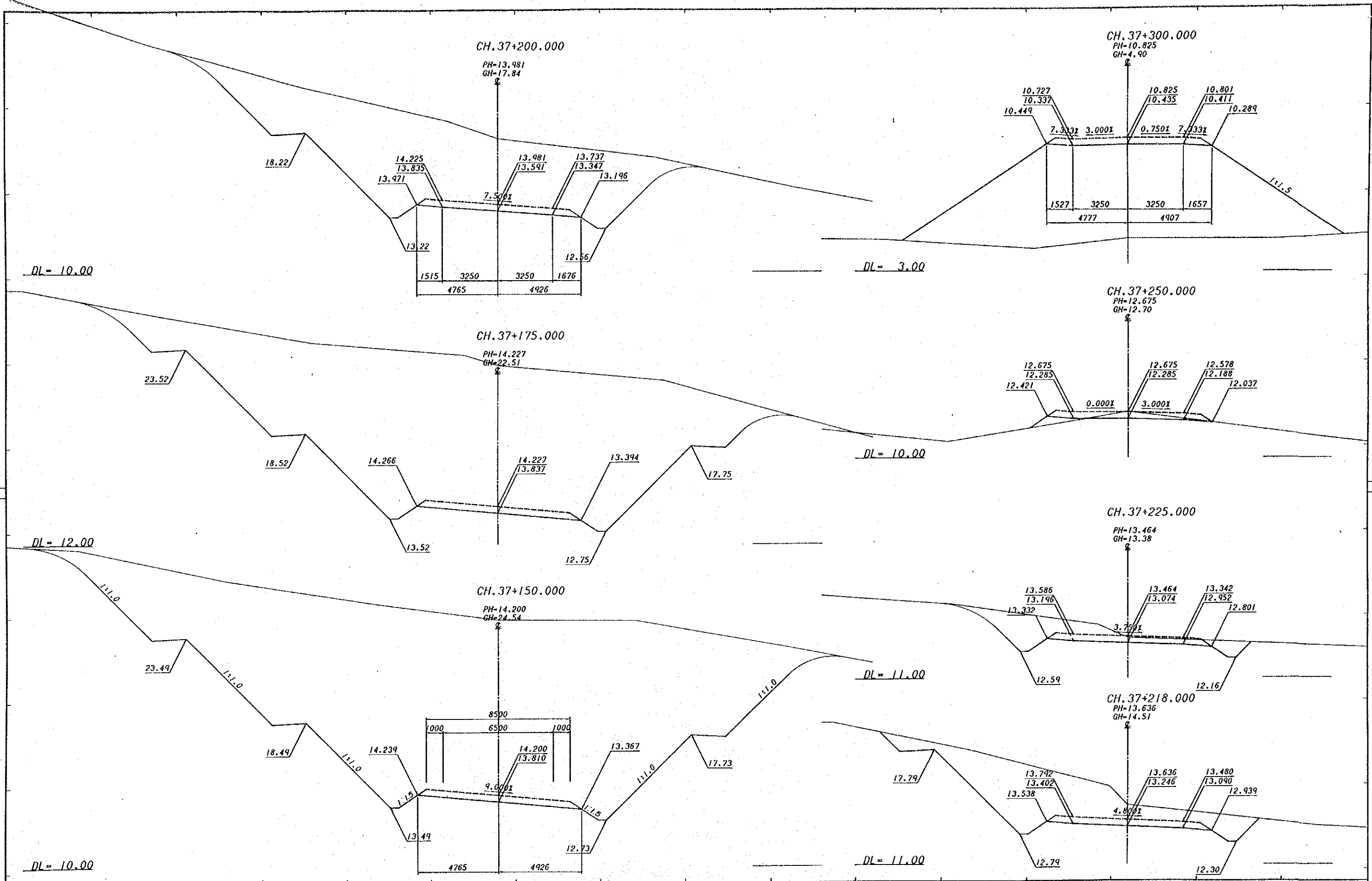


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VERTICAL DATUM MEAN SEA LEVEL		JAPAN INTERNATIONAL CO-OPERATION AGENCY		CHECKED C.S.A.		PROJECT ENGINEER W. K. L.		APPROVED S.C. 14. 51		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
HORIZONTAL DATUM		Principal J. J. M. S.		DESIGNED A. Magaki		EXECUTIVE ENGINEER W. K. L.		SECRETARY F. S. S.		CROSS SECTIONS	
SURVEY BOOK N°S		25 Sep. 1989 Date		CHECKED Z. K. S.		SHEET 128 OF 303		PROJECT No. S.C. 120-33-814/B		CH. 36 + 700 — CH. 37 + 0	
REV.	AMENDMENTS	BY	APP'D	DATE	DATE		SHEET		DEPARTMENT OF WORKS		DRAWING No. A1/ 88162



SURVEY JICA		DESIGN JAPAN INTERNATIONAL CO-OPERATION AGENCY		DRAWN K.E.		RECOMMENDED <i>[Signature]</i>		CENTRAL / GULF PROVINCES	
VERTICAL DATUM MEAN SEA LEVEL		J. [Signature] Principal		CHECKED <i>[Signature]</i>		PRINCIPAL ENGINEER <i>[Signature]</i>		TRANS-ISLAND HIGHWAY HEREINA-MALALAU SECTION	
HORIZONTAL DATUM		25 Sep. 1989 Date		DESIGNED A. Magan		APPROVED <i>[Signature]</i>		CROSS SECTIONS	
SURVEY BOOK NO. 8		BY		CHECKED <i>[Signature]</i>		S.C. 120-33-814/B		CH. 37 + 25 — CH. 37 + 125	
AMENDMENTS		APP'D		EXECUTIVE ENGINEER <i>[Signature]</i>		SHEET 129 OF 303		PAPUA NEW GUINEA DEPARTMENT OF WORKS	
DATE		DATE		SECRETARY <i>[Signature]</i>		PROJECT No. S.C. 120-33-814/B		DRAWING No. A1/ 88163	





SURVEY		DESIGN		DRAWN		RECOMMENDED		SCALES		CENTRAL / GULF PROVINCES	
JICA		JAPAN INTERNATIONAL CO-OPERATION AGENCY		K.E.		H. K. ...		HORIZONTAL & VERTICAL 1:100		TRANS-ISLAND HIGHWAY BEREINA-MALALAU SECTION	
VERTICAL DATUM MEAN SEA LEVEL		J. ... 25 Sep. 1969		C. A. ...		A. ...		SHEET 130 OF 303		CH. 37 + 150 — CH. 37 + 300	
HORIZONTAL DATUM		Date		A. ...		F. ...		PROJECT No. S.C. 120-33-814/B		PAPUA NEW GUINEA DEPARTMENT OF WORKS	
SURVEY BOOK NOS.		Date		7. ...		S. ...		DRAWING No. A1/ 88164		REV.	
AMENDMENTS		BY APP'D DATE		EXECUTIVE ENGINEER		SECRETARY					