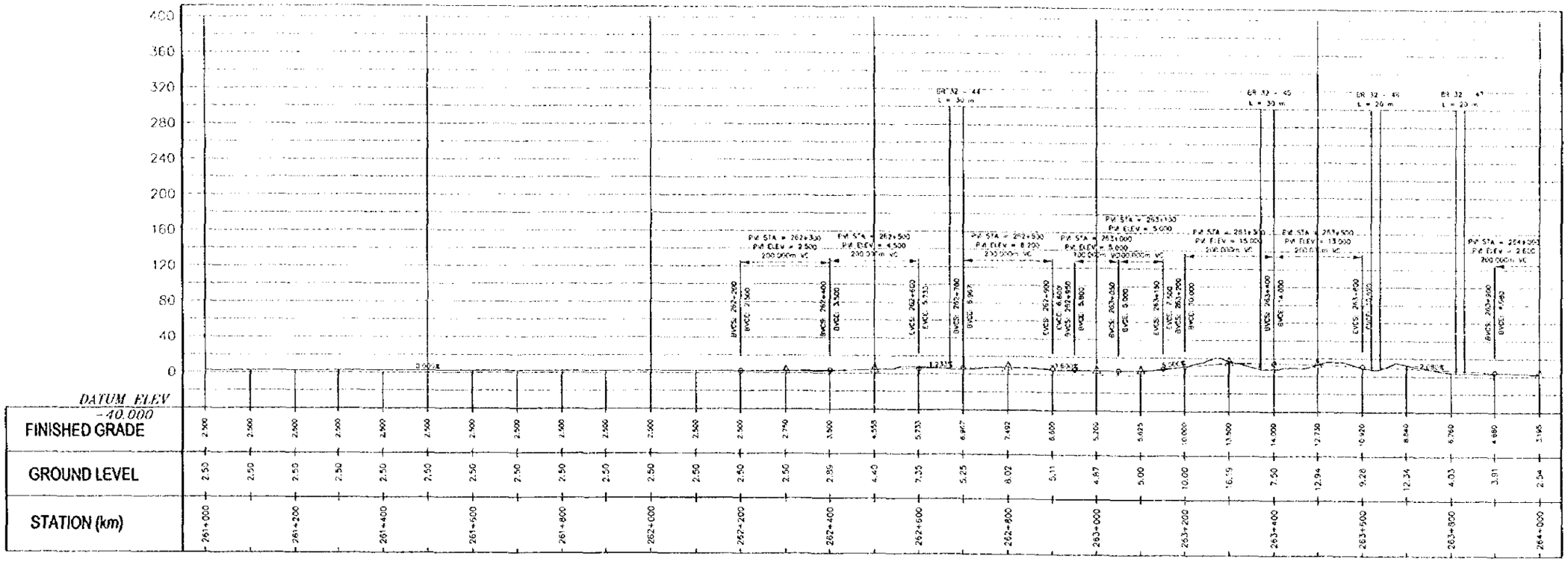
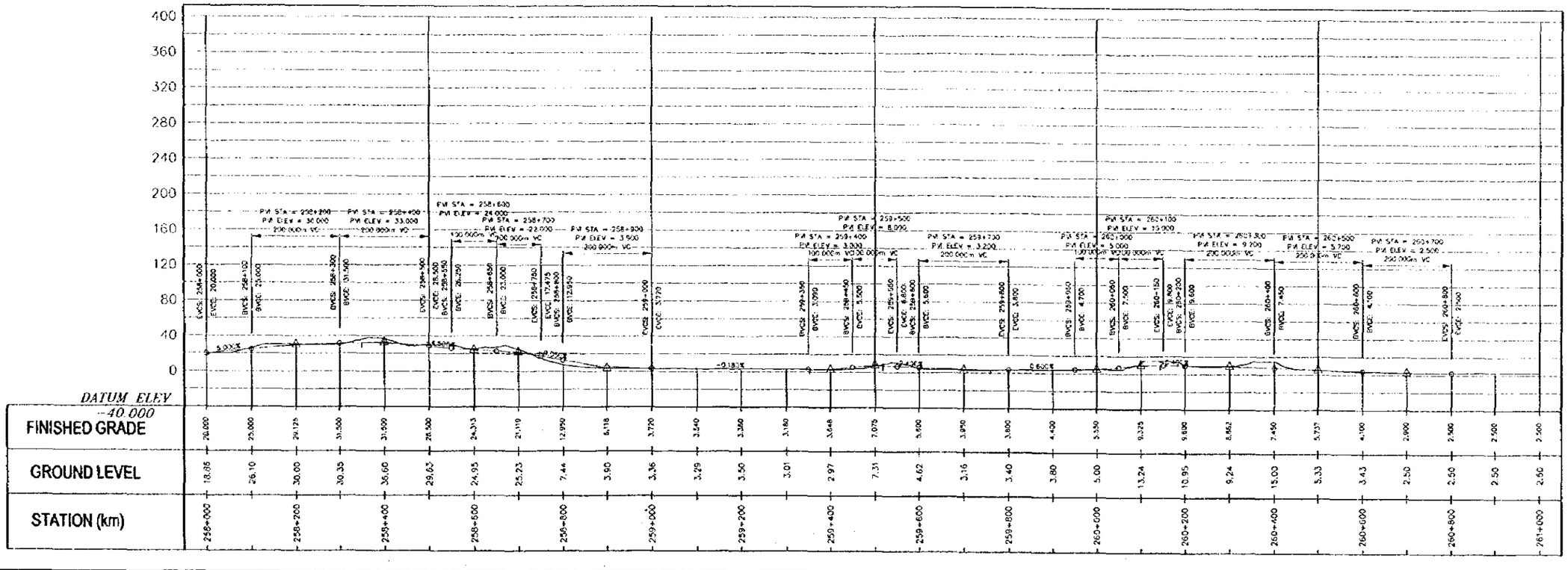
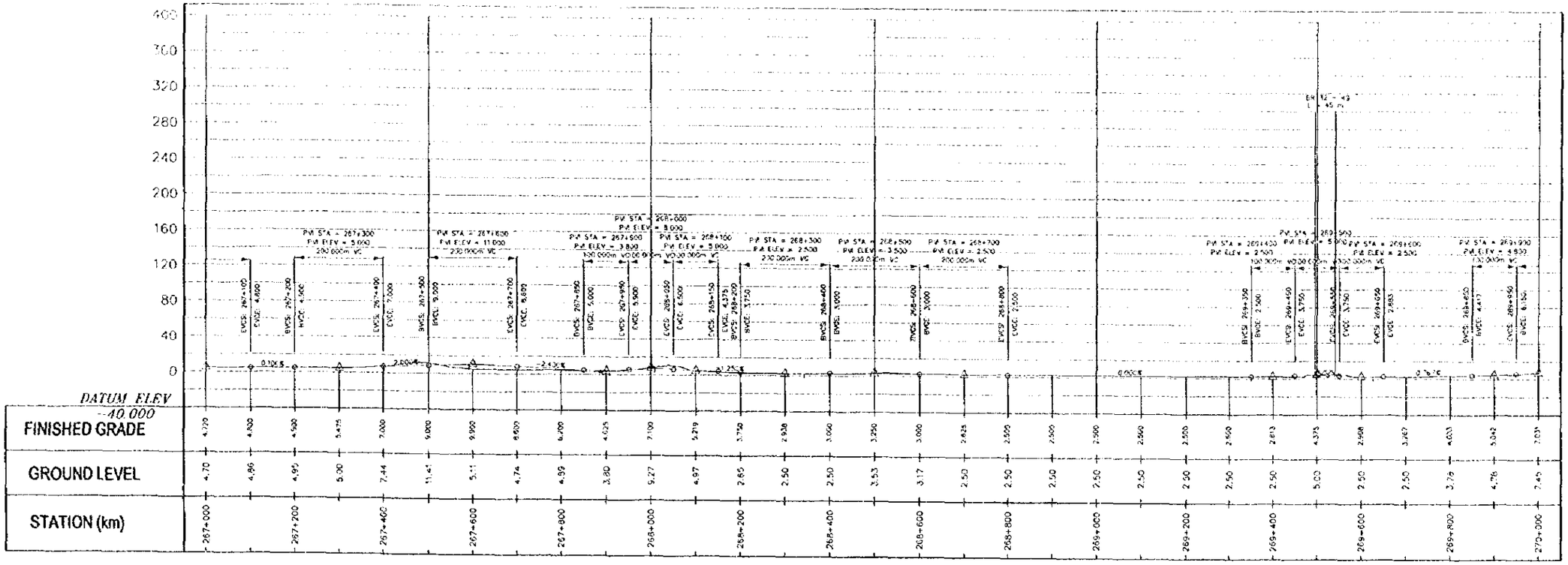
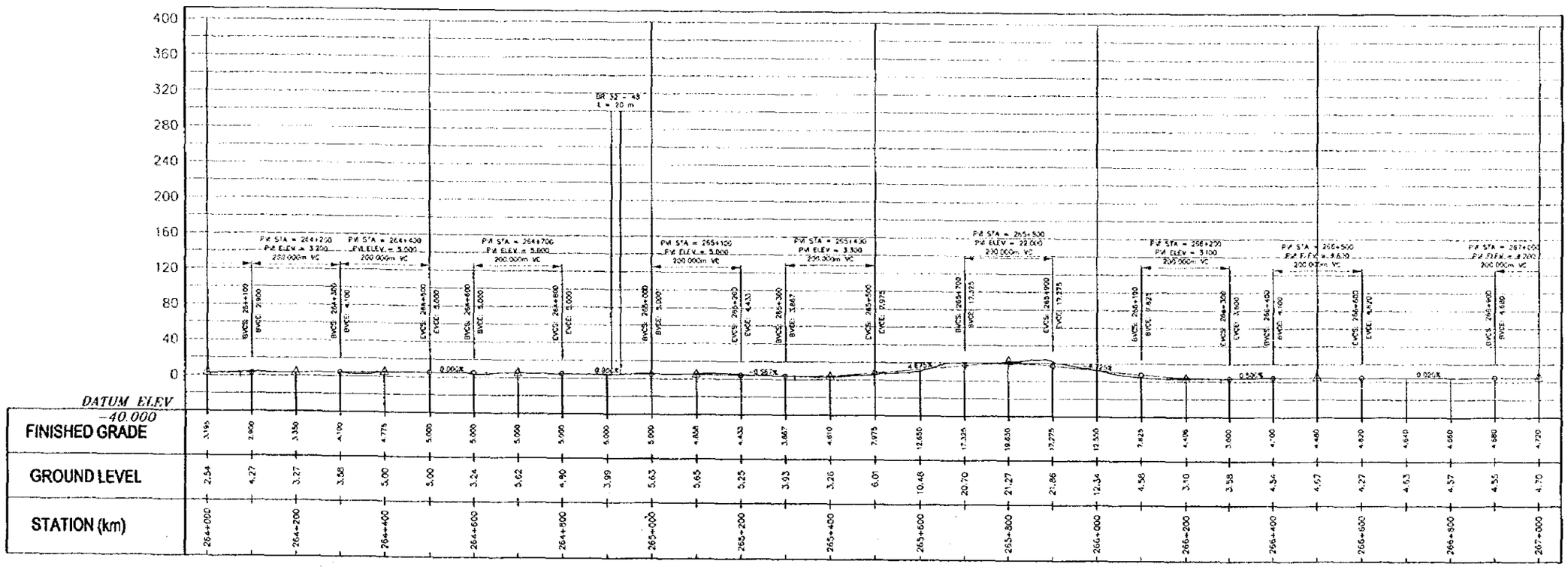


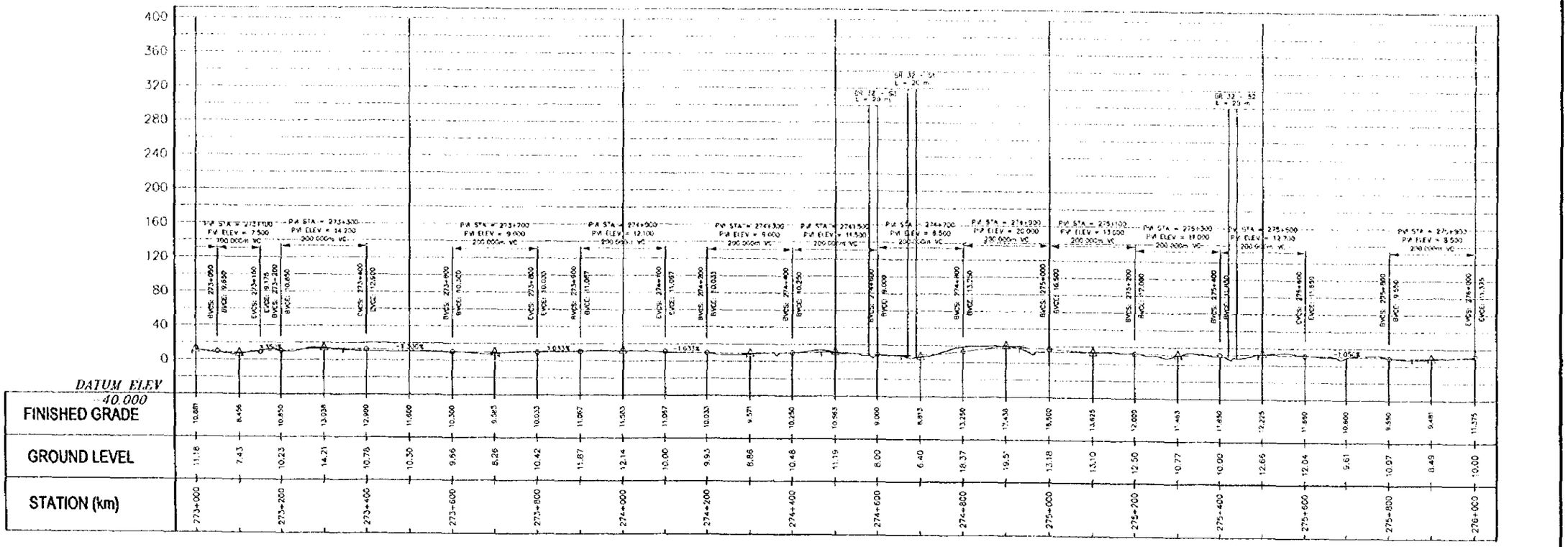


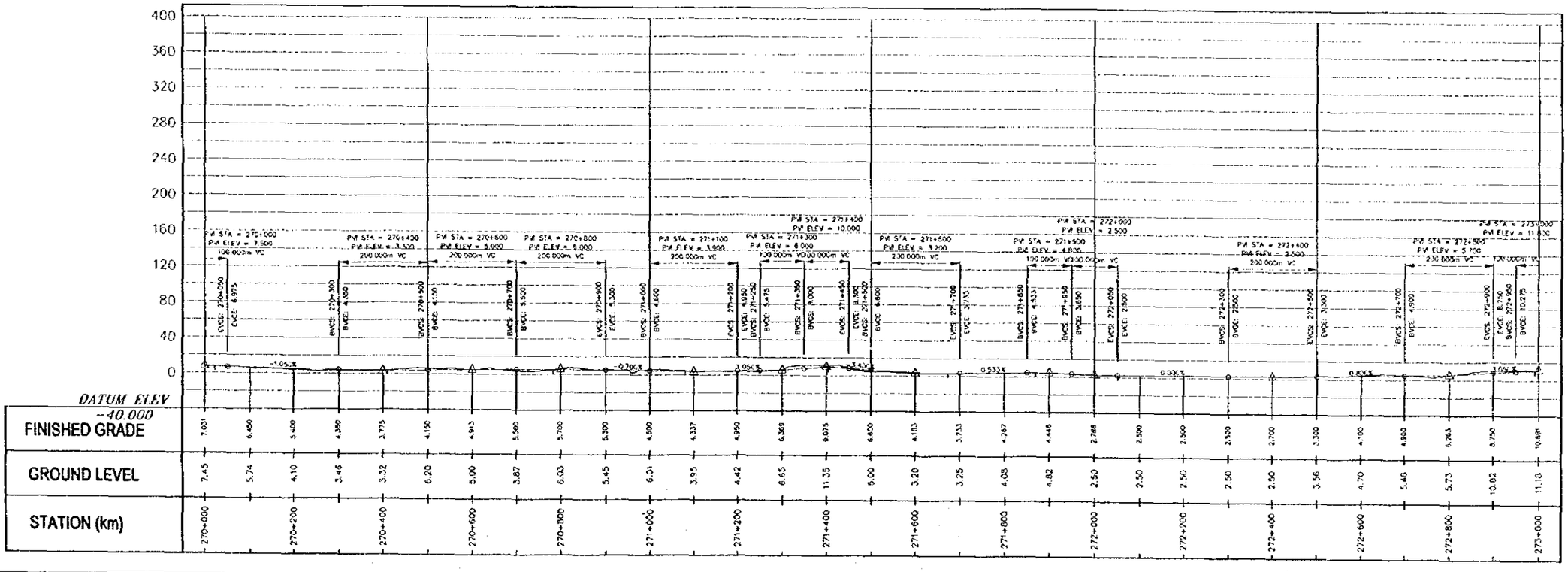
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PROFILE (44) (258+000 - 264+000)	SCALE : H = 1 : 10000 V = 1 : 5000	SHEET NO. 117



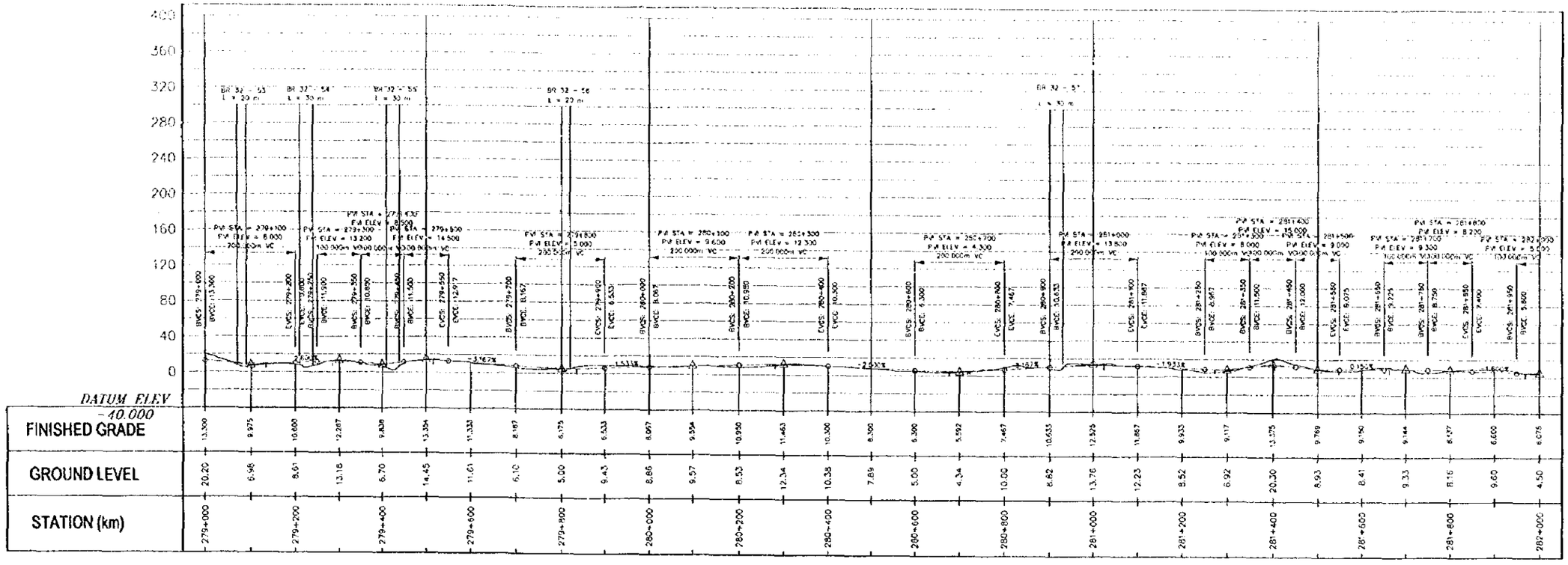


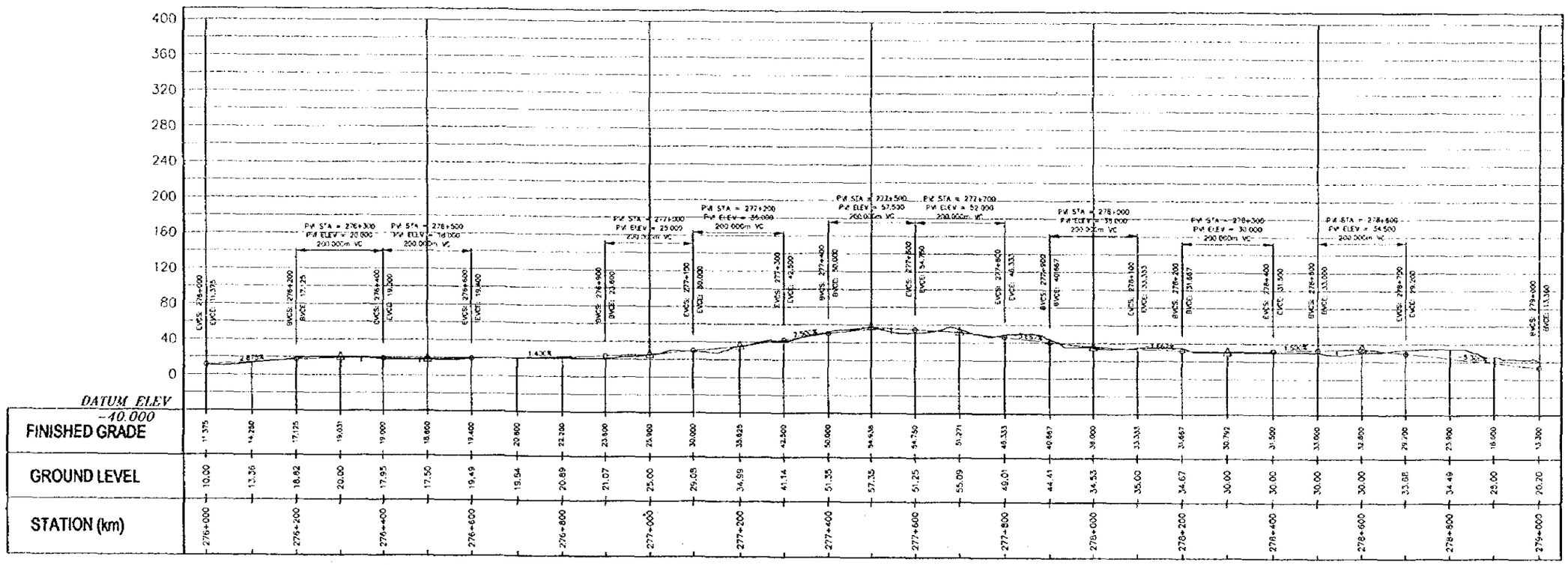
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PROFILE (45) (264+000 - 270+000)	SCALE : H = 1 : 10000 V = 1 : 5000	SHEET NO. 118



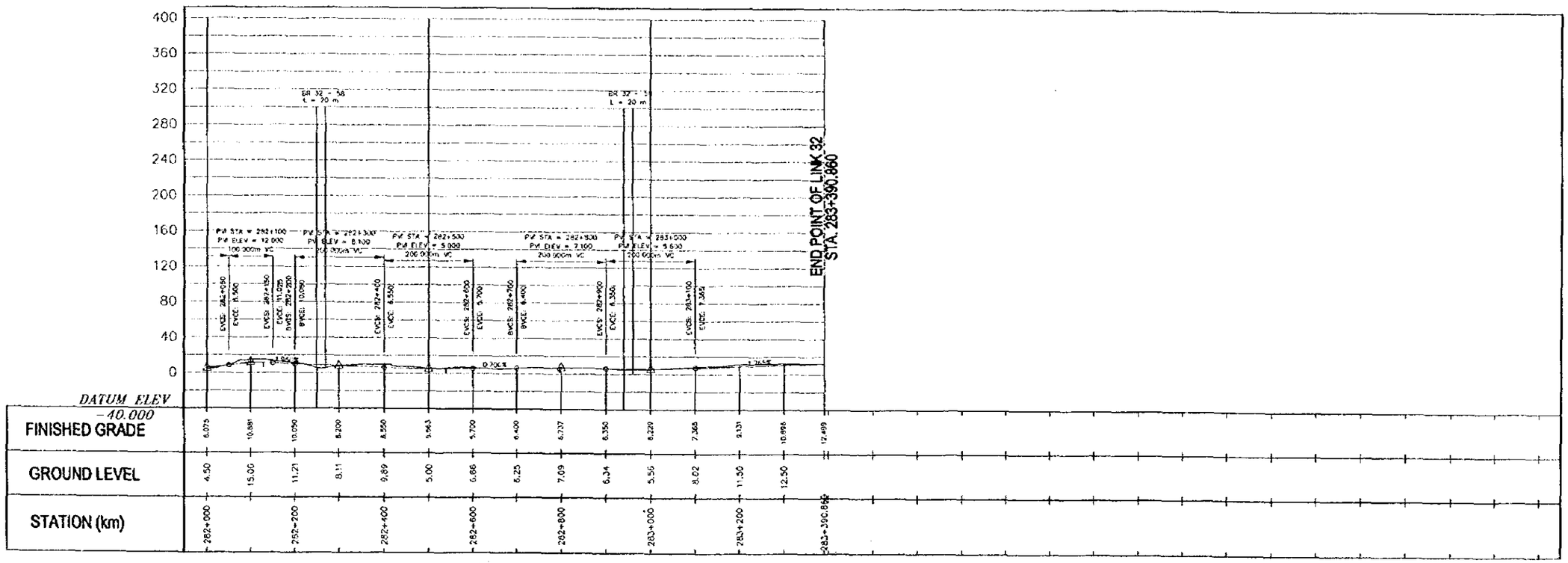


PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PROFILE (46) (270+000 - 276+000)	SCALE : H = 1 : 10000 V = 1 : 5000	SHEET NO. 119





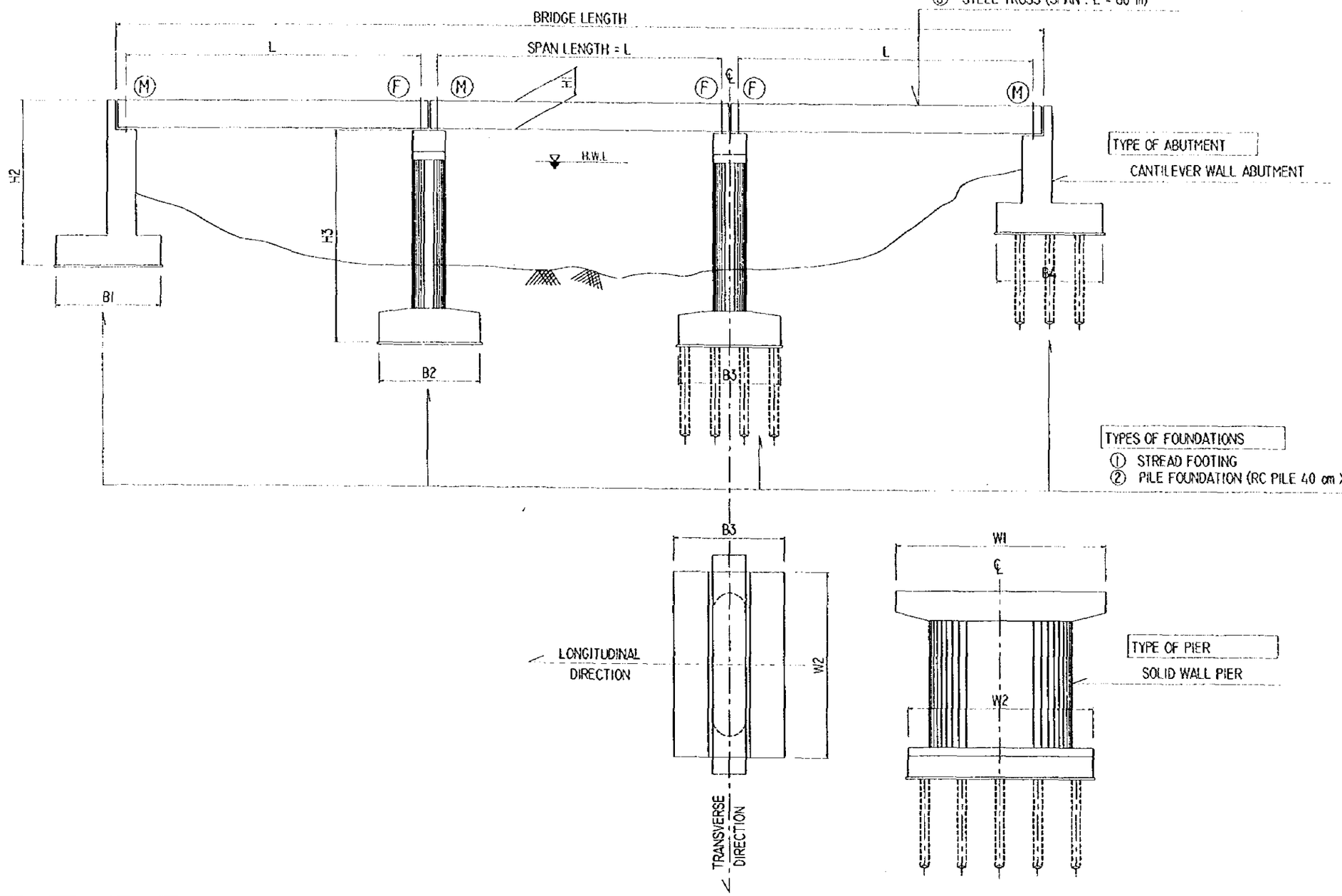
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PROFILE (47) (276+000 - 282+000)	SCALE : H = 1 : 10000 V = 1 : 5000	SHEET NO. 120



PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PROFILE (48) (282+000 - 283+390.860)	SCALE : H = 1 : 10000 V = 1 : 5000	SHEET NO. 121

GENERAL DESCRIPTION OF PROPOSED BRIDGES

TYPES OF SUPERSTRUCTURES
① RC-T GIRDER (SPAN : L = 10 m, 15 m, 20 m)
② PC-I GIRDER (SPAN : L = 25 m, 30 m, 40 m)
③ STEEL TRUSS (SPAN : L = 60 m)



PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: GENERAL DESCRIPTION OF PROPOSED BRIDGES	SCALE:	SHEET NO. 122

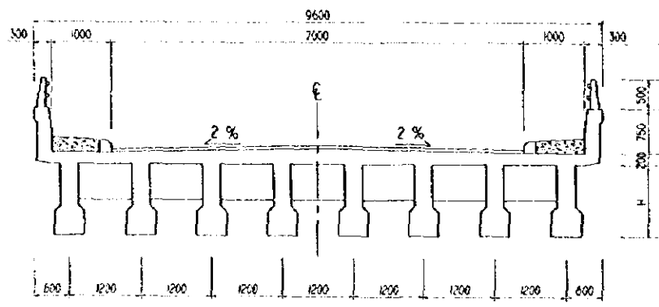
STANDARD DESIGN OF SUPERSTRUCTURES

① TYPE : REINFORCED CONCRETE T-SHAPE GIRDER (RC-T)

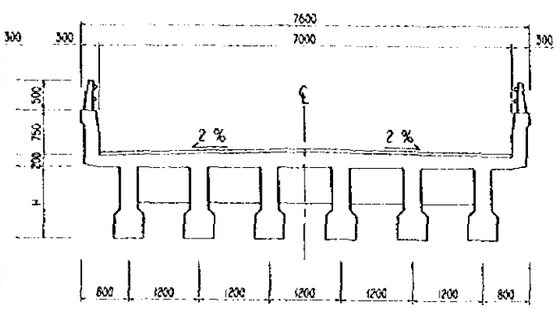
(SPAN LENGTH : L = 10 m, 15 m, 20 m)

CROSS SECTION (S= 1 : 100)

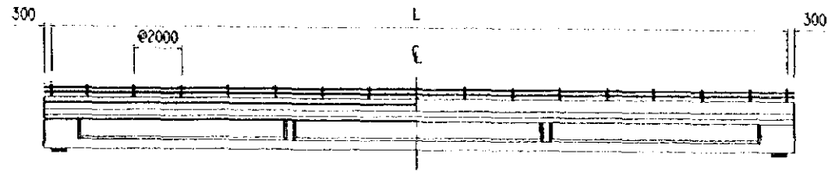
TYPE A : WITH SIDEWALK



TYPE B : WITHOUT SIDEWALK



ELEVATION



GIRDER DEPTH : H

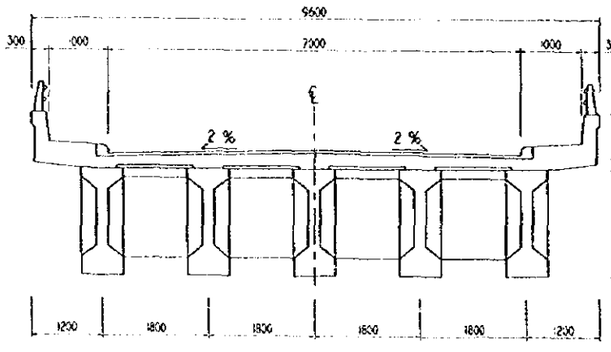
L (m)	H (m)
10	0.65
15	0.85
20	1.20

② TYPE : RRESTRESSED CONCRETE I-SHAPE GIRDER (PC-I)

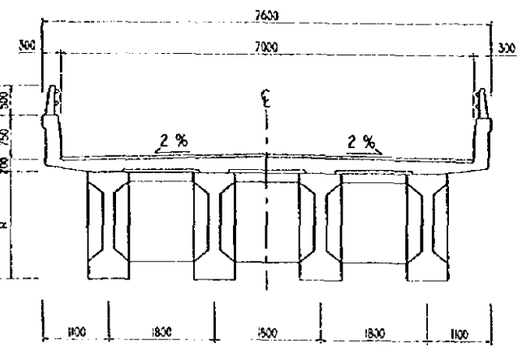
(SPAN LENGTH : L = 25 m, 30 m, 40 m)

CROSS SECTION (S= 1 : 100)

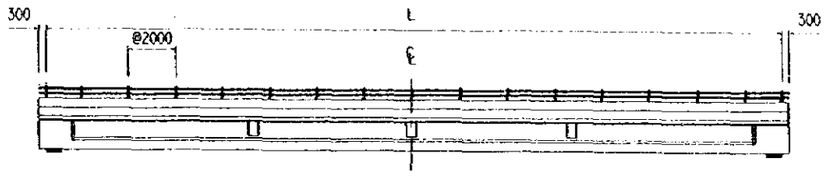
TYPE A : WITH SIDEWALK



TYPE B : WITHOUT SIDEWALK



ELEVATION



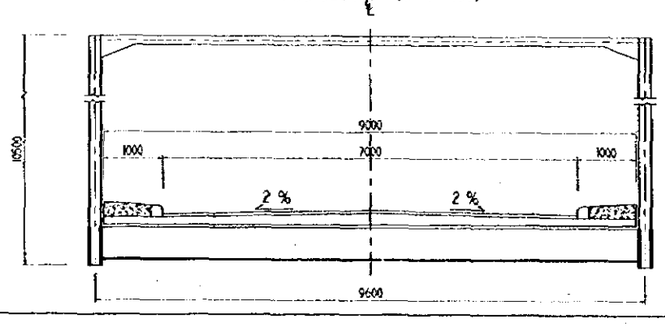
GIRDER DEPTH : H

L (m)	H (m)
25	1.50
30	1.80
40	2.35

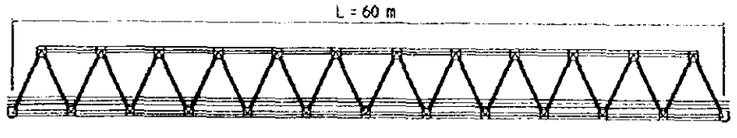
③ TYPE : STEEL TRUSS (ST)

(SPAN LENGTH : L = 60 m)

CROSS SECTION (S= 1 : 100)



ELEVATION



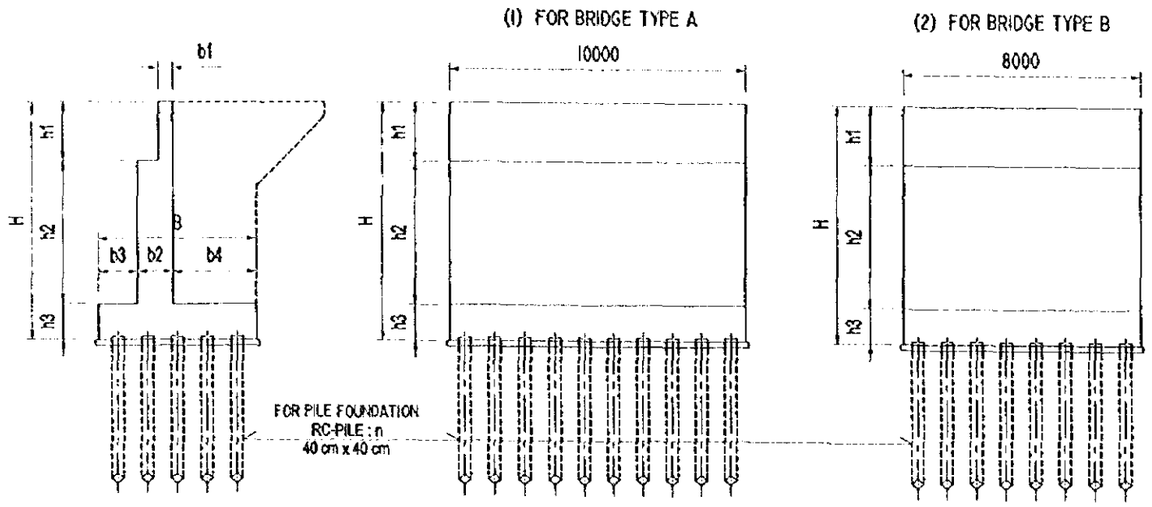
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: STANDARD DESIGN OF SUPERSTRUCTURES	SCALE:	SHEET NO. 123

STANDARD DESIGN OF SUBSTRUCTURES

ABUTMENTS (CANTILEVER ABUTMENT)

SIDE ELEVATION

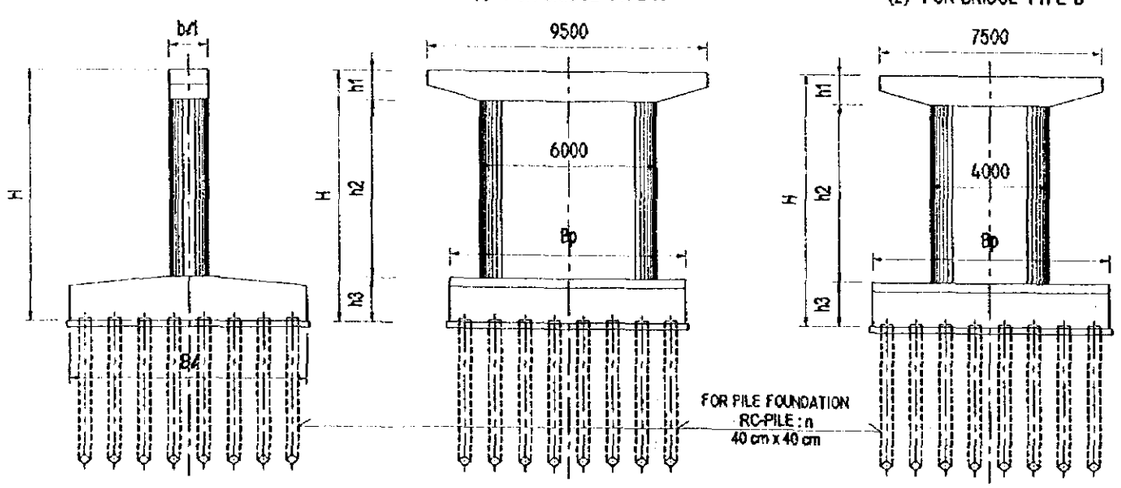
FRONT ELEVATION



PIERS (SOLID WALL PIER)

SIDE ELEVATION

FRONT ELEVATION



DIMENSION TABLE OF ABUTMENTS

(1) SPREAD FOOTING

Span (m)	Bearing Condition	H (m)	h1 (m)	h2 (m)	h3 (m)	B (m)	b1 (m)	b2 (m)	b3 (m)	b4 (m)
20	M,F	6.00	1.38	3.62	1.00	4.00	0.40	1.20	1.00	1.80
	M	8.00	1.38	5.42	1.20	5.00	0.40	1.20	1.00	2.80
	F	8.00	1.38	5.42	1.20	5.50	0.40	1.20	1.00	3.30
30	M	6.00	1.98	3.02	1.00	4.00	0.50	1.20	1.00	1.80
	F	6.00	1.98	3.02	1.00	4.50	0.50	1.20	1.00	2.30
	M	8.00	1.98	4.82	1.20	5.50	0.50	1.20	1.30	3.00
	F	8.00	1.98	4.82	1.20	6.50	0.50	1.20	1.30	4.00

(2) PILE FOUNDATION (RC-PILE 40 cm x 40cm)

Span (m)	Bearing Condition	H (m)	h1 (m)	h2 (m)	h3 (m)	B (m)	b1 (m)	b2 (m)	b3 (m)	b4 (m)	Pile n
15	M,F	6.00	1.03	3.97	1.00	4.00	0.40	1.20	1.00	1.80	16
	M,F	8.00	1.03	5.77	1.20	4.00	0.40	1.20	1.00	1.80	16
20	M,F	6.00	1.38	3.62	1.00	4.00	0.40	1.20	1.00	1.80	18
	M,F	8.00	1.38	5.42	1.20	4.00	0.40	1.20	1.00	1.80	18
25	M,F	6.00	1.68	3.32	1.00	4.00	0.50	1.20	1.00	1.80	20
	M,F	8.00	1.68	5.12	1.20	4.00	0.50	1.20	1.00	1.80	20
30	M,F	6.00	1.98	3.02	1.00	5.00	0.50	1.20	1.30	2.50	22
	M,F	8.00	1.98	4.82	1.20	5.00	0.50	1.20	1.30	2.50	22
40	M,F	6.00	2.53	2.47	1.00	5.00	0.50	1.50	1.30	2.20	25
	M,F	8.00	2.53	4.27	1.20	5.00	0.50	1.50	1.30	2.20	25

DIMENSION TABLE OF PIERS

(1) SPREAD FOOTING

Span (m)	Bearing Condition	H (m)	h1 (m)	h2 (m)	h3 (m)	Bp (m)	B# (m)	B#1 (m)
20	MF	8.00	1.00	5.80	1.20	8.00	5.00	1.50
	FF	8.00	1.00	5.80	1.20	8.00	5.50	1.50
	MF	12.00	1.00	9.80	1.20	8.00	5.50	1.50
	FF	12.00	1.00	9.80	1.20	8.00	7.00	1.50
30	MF	12.00	1.00	9.80	1.20	8.00	6.50	1.50
	FF	12.00	1.00	9.80	1.20	8.00	8.50	1.50

(2) PILE FOUNDATION (RC-PILE 40 cm x 40 cm)

Span (m)	Bearing Condition	H (m)	h1 (m)	h2 (m)	h3 (m)	Bp (m)	B# (m)	B#1 (m)	Pile n	Remarks
20	MF	8.00	1.00	5.80	1.20	8.00	5.00	1.50	18	
	FF	8.00	1.00	5.80	1.20	8.00	6.00	1.50	22	
	MF	12.00	1.00	9.50	1.50	8.00	6.00	1.50	18	
	FF	12.00	1.00	9.50	1.50	8.00	6.50	1.50	22	
	MF	16.00	1.00	13.50	1.50	8.00	8.00	2.00	25	
	FF	16.00	1.00	13.50	1.50	8.00	8.00	2.00	28	
30	MF	8.00	1.00	5.80	1.20	8.00	6.00	1.50	22	
	FF	8.00	1.00	5.80	1.20	8.00	6.00	1.50	28	
	MF	12.00	1.00	9.50	1.50	8.00	6.00	1.50	26	
	FF	12.00	1.00	9.50	1.50	8.00	8.00	1.50	30	
	MF	16.00	1.00	13.50	1.50	8.00	8.00	2.00	31	
	FF	16.00	1.00	13.50	1.50	8.00	10.00	2.00	35	
40	MF	12.00	1.00	9.50	1.50	8.00	6.50	1.50	20	BR22-29
	FF	12.00	1.00	9.50	1.50	8.00	8.00	1.50	22	BR22-29

PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: STANDARD DESIGN OF SUBSTRUCTURES	SCALE: 1 : 200	SHEET NO. 124

LIST OF PROPOSED BRIDGES (1)

(1) LINK 16

Bridge No.	Location	Length	Nos. of Span	Span Arrangement	Bridge Width (m)	Types of Super-structures	Sub-structures															Boring Data
							Types of Foundations	Abutments								Piers							
								FIX				MOVE				FIX+FIX				MOVE+FIX				
								Nos.	ha(m)	Pile La(m)	Nos.	Nos.	ha(m)	Pile La(m)	Nos.	Nos.	hp(m)	Pile/ 1 pier Lp(m)	Nos.	Nos.	hp(m)	Pile/ 1 pier Lp(m)	Nos.	
BR 16 - 1	2 + 115	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	24	18	1	6	24	18	-	-	-	-	-	-	-	-	58.59
BR 16 - 2	3 + 300	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	24	16	1	6	24	16	-	-	-	-	-	-	-	-	58.59
BR 16 - 3	3 + 980	25.0	1	1 @ 25.0	9.6	PC-I	Pile	1	6	24	20	1	6	24	20	-	-	-	-	-	-	-	-	58.59
BR 16 - 4	4 + 760	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	24	18	1	6	24	18	-	-	-	-	-	-	-	-	58.59
BR 16 - 5	5 + 375	25.0	1	1 @ 25.0	9.6	PC-I	Pile	1	6	24	20	1	6	24	20	-	-	-	-	-	-	-	-	58.59
BR 16 - 6	6 + 100	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	24	18	1	6	24	18	-	-	-	-	-	-	-	-	58.59
BR 16 - 7	6 + 790	25.0	1	1 @ 25.0	9.6	RC-T	Pile	RETAIN EXISTING																58.59
BR 16 - 8	7 + 0	45.0	1	1 @ 45.0	6.0	Steel Truss	Pile	RETAIN EXISTING																58.59
BR 16 - 9	7 + 600	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	24	18	1	6	24	18	-	-	-	-	-	-	-	-	58.59
BR 16 - 10	7 + 640	25.0	1	1 @ 25.0	9.6	PC-I	Pile	1	6	24	20	1	6	24	20	-	-	-	-	-	-	-	-	58.59
BR 16 - 11	7 + 785	25.0	1	1 @ 25.0	9.6	PC-I	Pile	1	6	24	20	1	6	24	20	-	-	-	-	-	-	-	-	58.59
BR 16 - 12	10 + 970	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	24	22	1	6	24	22	-	-	-	-	-	-	-	-	56.57
BR 16 - 13	11 + 630	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	24	16	1	6	24	16	-	-	-	-	-	-	-	-	56.57
BR 16 - 14	15 + 475	25.0	1	1 @ 25.0	9.6	RC-T	Pile	RETAIN EXISTING																54.55
BR 16 - 15	16 + 0	40.0	1	1 @ 40.0	6.0	Steel Truss	Pile	RETAIN EXISTING																54.55
BR 16 - 16	16 + 490	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	24	14	1	6	24	14	-	-	-	-	-	-	-	-	54.55
BR 16 - 17	17 + 620	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	26	16	1	6	26	16	-	-	-	-	-	-	-	-	52.53
BR 16 - 18	18 + 590	25.0	1	1 @ 25.0	9.6	PC-I	Pile	1	6	26	20	1	6	26	20	-	-	-	-	-	-	-	-	52.53
BR 16 - 19	20 + 530	55.0	1	1 @ 55.0	6.0	Steel Truss	Pile	RETAIN EXISTING																50.51
BR 16 - 20	22 + 290	25.0	1	1 @ 25.0	9.6	PC-I	Pile	1	6	26	20	1	6	26	20	-	-	-	-	-	-	-	-	50.51
BR 16 - 21	22 + 830	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	26	16	1	6	26	16	-	-	-	-	-	-	-	-	50.51
BR 16 - 22	27 + 885	30.0	1	1 @ 30.0	9.6	RC-T	Pile	1	6	10	22	1	6	10	22	-	-	-	-	-	-	-	-	48.49
BR 16 - 23	29 + 250	30.0	1	1 @ 30.0	9.6	RC-T	Pile	1	6	12	22	1	6	12	22	-	-	-	-	-	-	-	-	46.47
BR 16 - 24	29 + 525	45.0	1	1 @ 45.0	6.0	Steel Truss	Pile	RETAIN EXISTING																46.47
BR 16 - 25	31 + 280	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	46.47
BR 16 - 26	35 + 420	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	46.47

(2)-1 LINK 22 (1)

Bridge No.	Location	Length	Nos. of Span	Span Arrangement	Bridge Width (m)	Types of Super-structures	Sub-structures															Boring Data
							Type of Foundation	Abutments								Piers							
								FIX				MOVE				FIX+FIX				MOVE+FIX				
								Nos.	ha(m)	Pile La(m)	Nos.	Nos.	ha(m)	Pile La(m)	Nos.	Nos.	hp(m)	Pile/ 1 pier Lp(m)	Nos.	Nos.	hp(m)	Pile/ 1 pier Lp(m)	Nos.	
BR 22 - 1	36 + 485	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	12	22	1	6	12	22	-	-	-	-	-	-	-	-	46.47
BR 22 - 2	36 + 850	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 3	37 + 20	40.0	2	2 @ 20.0	9.6	RC-T	Pile	-	-	-	-	2	6	12	18	1	12	12	22	-	-	-	-	46.47
BR 22 - 4	37 + 650	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	12	16	1	6	12	16	-	-	-	-	-	-	-	-	46.47
BR 22 - 5	39 + 20	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 6	39 + 280	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	10	12	18	1	10	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 7	40 + 370	40.0	2	2 @ 20.0	7.6	RC-T	Pile	-	-	-	-	2	8	12	18	1	12	12	22	-	-	-	-	46.47
BR 22 - 8	40 + 760	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	8	12	18	1	8	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 9	40 + 950	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	8	12	18	1	8	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 10	41 + 530	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	12	16	1	6	12	16	-	-	-	-	-	-	-	-	46.47
BR 22 - 11	41 + 960	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	8	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 12	42 + 650	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	8	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 13	43 + 770	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 14	44 + 470	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 15	46 + 260	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	10	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 16	46 + 800	60.0	3	3 @ 20.0	9.6	RC-T	Pile	-	-	-	-	2	8	12	18	1	12	12	22	1	12	12	18	46.47
BR 22 - 17	47 + 540	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 18	48 + 80	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	8	12	18	1	10	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 19	48 + 370	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	8	12	18	1	8	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 20	48 + 840	40.0	1	1 @ 40.0	7.6	PC-I	Pile	1	6	12	25	1	6	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 21	49 + 880	60.0	3	3 @ 20.0	9.6	RC-T	Pile	-	-	-	-	2	10	12	18	1	12	12	22	1	12	12	18	46.47
BR 22 - 22	50 + 340	40.0	2	2 @ 20.0	9.6	RC-T	Pile	-	-	-	-	2	8	12	18	1	10	12	22	-	-	-	-	46.47
BR 22 - 23	50 + 740	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	12	16	1	6	12	16	-	-	-	-	-	-	-	-	46.47
BR 22 - 24	50 + 960	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 25	51 + 440	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	10	12	18	1	10	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 26	52 + 150	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	10	12	18	1	10	12	18	-	-	-	-	-	-	-	-	46.47
BR 22 - 27	53 + 0	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	23	14	1	6	23	14	-	-	-	-	-	-	-	-	44.45
BR 22 - 28	54 + 125	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	23	18	1	6	23	18	-	-	-	-	-	-	-	-	44.45
BR 22 - 29	56 + 530	120.0	3	3 @ 40.0	9.6	PC-I	Pile	-	-	-	-	2	10	23	22	1	12	23	23	1	12	23	20	44.45
BR 22 - 30	57 + 215	40.0	1	1 @ 40.0	9.6	PC-I	Pile	1	6	23	20	1	6	23	20	-	-	-	-	-	-	-	-	44.45

PROJECT:ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA) DIRECTORATE GENERAL OF HIGHWAYS(BINA MARGA) MINISTRY OF PUBLIC WORKS	PCIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co,Ltd	DRAWING TITLE: LIST OF PROPOSED BRIDGES (1)	SCALE: / SHEET NO. 125

LIST OF PROPOSED BRIDGES (2)

(2)-2 LINK 22 (2)

Bridge No.	Location km + m	Length (m)	Nos. of Span	Span Arrangement	Bridge Width (m)	Types of Super-structures	Type of Foundation	Sub-structures																Boring Data
								Abutments								Piers								
								FIX				MOVE				FIX+FIX				MOVE+FIX				
								Nos.	ha(m)	Pile La(m)	Nos.	Nos.	ha(m)	Pile La(m)	Nos.	Nos.	hp(m)	Pile/1 pier Lp(m)	Nos.	Nos	hp(m)	Pile/1 pier Lp(m)	Nos.	
BR 22 - 31	58 + 70	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	23	14	1	6	23	14	-	-	-	-	-	-	-	-	44,45
BR 22 - 32	59 + 760	40.0	2	2 @ 20.0	9.6	RC-T	Pile	-	-	-	-	2	6	23	14	1	8	23	16	-	-	-	-	44,45
BR 22 - 33	60 + 100	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	23	14	1	6	23	14	-	-	-	-	-	-	-	-	44,45
BR 22 - 34	62 + 970	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	14	16	1	6	14	16	-	-	-	-	-	-	-	-	42,43
BR 22 - 35	64 + 160	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	14	16	1	6	14	16	-	-	-	-	-	-	-	-	42,43
BR 22 - 36	65 + 570	60.0	2	2 @ 30.0	9.6	PC-I	Pile	-	-	-	-	2	6	14	22	1	6	14	28	-	-	-	-	42,43
BR 22 - 37	68 + 20	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	14	16	1	6	14	16	-	-	-	-	-	-	-	-	42,43
BR 22 - 38	68 + 430	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	14	16	1	6	14	16	-	-	-	-	-	-	-	-	42,43
BR 22 - 39	70 + 590	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	14	18	1	6	14	18	-	-	-	-	-	-	-	-	42,43
BR 22 - 40	71 + 990	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	14	22	1	6	14	22	-	-	-	-	-	-	-	-	42,43
BR 22 - 41	74 + 30	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	16	24	1	6	16	24	-	-	-	-	-	-	-	-	40,41
BR 22 - 42	75 + 530	60.0	2	2 @ 30.0	9.6	PC-I	Pile	-	-	-	-	2	6	16	24	1	8	16	30	-	-	-	-	40,41
BR 22 - 43	76 + 420	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	16	18	1	6	16	18	-	-	-	-	-	-	-	-	40,41
BR 22 - 44	77 + 925	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	16	24	1	6	16	24	-	-	-	-	-	-	-	-	40,41
BR 22 - 45	78 + 240	60.0	2	2 @ 30.0	9.6	PC-I	Pile	-	-	-	-	2	6	16	24	1	8	16	30	-	-	-	-	40,41
BR 22 - 46	78 + 920	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	16	20	1	6	16	20	-	-	-	-	-	-	-	-	40,41
BR 22 - 47	80 + 80	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	16	20	1	6	16	20	-	-	-	-	-	-	-	-	40,41
BR 22 - 48	81 + 150	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	16	18	1	6	16	18	-	-	-	-	-	-	-	-	40,41
BR 22 - 49	81 + 360	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	16	18	1	6	16	18	-	-	-	-	-	-	-	-	40,41
BR 22 - 50	81 + 390	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	16	18	1	6	16	18	-	-	-	-	-	-	-	-	40,41
BR 22 - 51	81 + 630	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	16	24	1	6	16	24	-	-	-	-	-	-	-	-	40,41
BR 22 - 52	83 + 345	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	16	18	1	6	16	18	-	-	-	-	-	-	-	-	40,41
BR 22 - 53	83 + 620	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	8	16	20	1	8	16	20	-	-	-	-	-	-	-	-	40,41
BR 22 - 54	84 + 670	15.0	1	1 @ 15.0	7.6	RC-T	Pile	1	6	16	18	1	6	16	18	-	-	-	-	-	-	-	-	40,41
BR 22 - 55	85 + 310	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	16	20	1	6	16	20	-	-	-	-	-	-	-	-	40,41
BR 22 - 56	85 + 650	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	16	20	1	6	16	20	-	-	-	-	-	-	-	-	40,41
BR 22 - 57	87 + 640	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	16	20	1	6	16	20	-	-	-	-	-	-	-	-	40,41
BR 22 - 58	87 + 800	15.0	1	1 @ 15.0	7.6	RC-T	Pile	1	6	16	18	1	6	16	18	-	-	-	-	-	-	-	-	40,41
BR 22 - 59	88 + 750	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	6	16	24	1	6	16	24	-	-	-	-	-	-	-	-	40,41
BR 22 - 60	89 + 480	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	16	18	1	6	16	18	-	-	-	-	-	-	-	-	40,41
BR 22 - 61	90 + 575	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	15	22	1	6	15	22	-	-	-	-	-	-	-	-	38,39
BR 22 - 62	90 + 840	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	15	16	1	6	15	16	-	-	-	-	-	-	-	-	38,39
BR 22 - 63	90 + 980	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	15	16	1	6	15	16	-	-	-	-	-	-	-	-	38,39
BR 22 - 64	91 + 250	15.0	1	1 @ 15.0	9.6	RC-T	Pile	1	6	15	16	1	6	15	16	-	-	-	-	-	-	-	-	38,39
BR 22 - 65	92 + 200	40.0	2	2 @ 20.0	9.6	RC-T	Pile	-	-	-	-	2	6	15	18	1	8	15	22	-	-	-	-	38,39
BR 22 - 66	92 + 490	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	38,39
BR 22 - 67	93 + 760	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	38,39
BR 22 - 68	95 + 25	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	15	22	1	6	15	22	-	-	-	-	-	-	-	-	38,39
BR 22 - 69	95 + 970	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	38,39
BR 22 - 70	96 + 850	40.0	2	2 @ 20.0	9.6	RC-T	Pile	-	-	-	-	2	6	15	18	1	8	15	22	-	-	-	-	38,39
BR 22 - 71	97 + 440	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	38,39
BR 22 - 72	97 + 520	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	10	15	18	1	10	15	18	-	-	-	-	-	-	-	-	38,39
BR 22 - 73	97 + 840	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	10	15	18	1	10	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 74	98 + 270	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 75	98 + 450	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15	18	1	10	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 76	98 + 860	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 77	99 + 150	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	10	15	18	1	10	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 78	99 + 685	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	15	22	1	6	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 79	101 + 40	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	10	15	22	1	10	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 80	102 + 260	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	10	15	22	1	10	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 81	102 + 775	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	12	15	22	1	12	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 82	103 + 535	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	8	15	22	1	10	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 83	103 + 670	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 84	103 + 720	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	15	18	1	8	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 85	104 + 440	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 86	1051 + 515	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	8	15	22	1	8	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 87	108 + 685	90.0	3	3 @ 30.0	7.6	PC-I	Pile	-	-	-	-	2	10	15	22	1	12	15	30	1	12	15	26	36,37
BR 22 - 88	109 + 835	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	6	15	22	1	10	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 89	114 + 360	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	6	15	22	1	8	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 90	118 + 560	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 91	118 + 600	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15	18	1	6	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 92A	121 + 240	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	15	22	1	6	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 92B	121 + 930	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	10	15	22	1	10	15	22	-	-	-	-	-	-	-	-	36,37

PROJECT:ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA) DIRECTORATE GENERAL OF HIGHWAYS(BINA MARGA) MINISTRY OF PUBLIC WORKS	PCIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co,Ltd	DRAWING TITLE: LIST OF PROPOSED BRIDGES (2)	SCALE:

LIST OF PROPOSED BRIDGES (3)

(2)-2 LINK 22 (3)

Bridge No.	Location km	Location m	Length (m)	Nos. of Span	Span Arrangement	Bridge Width (m)	Types of Super-structures	Sub-structures: Type of Foundation	Abutments: FIX Nos.	FIX ha(m)	FIX Pile La(m)	FIX Pile Nos.	Abutments: MOVE Nos.	MOVE ha(m)	MOVE Pile La(m)	MOVE Pile Nos.	Piers: FIX+FIX Nos.	FIX+FIX hp(m)	FIX+FIX Pile/1 pier Lp(m)	FIX+FIX Pile/1 pier Nos.	Piers: MOVE+FIX Nos.	MOVE+FIX hp(m)	MOVE+FIX Pile/1 pier Lp(m)	MOVE+FIX Pile/1 pier Nos.	Boring Data
BR 22 - 93	122 +	25	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	15	22	1	8	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 94	122 +	535	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	8	15	22	1	8	15	22	-	-	-	-	-	-	-	-	36,37
BR 22 - 95	122 +	760	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	8	15	18	1	8	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 96	122 +	950	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	8	15	18	1	8	15	18	-	-	-	-	-	-	-	-	36,37
BR 22 - 97	123 +	200	90.0	3	3 @ 30.0	9.6	PC-I	Pile	-	-	-	-	2	6	15	22	1	8	15	28	1	8	15	22	34,35
BR 22 - 98	126 +	810	60.0	3	3 @ 20.0	9.6	RC-T	Pile	-	-	-	-	2	6	15	18	1	8	15	22	1	8	15	18	34,35
BR 22 - 99	128 +	200	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	15		1	6	15	18	-	-	-	-	-	-	-	-	34,35
BR 22 - 100	128 +	990	60.0	3	3 @ 20.0	7.6	RC-T	Pile	-	-	-	-	2	8	15	18	1	8	15	22	1	8	15	18	34,35
BR 22 - 101	131 +	450	20.0	1	1 @ 20.0	7.6	RC-T	Spread	1	8	-	-	1	8	15	-	-	-	-	-	-	-	-	-	32,33
BR 22 - 102	132 +	0	20.0	1	1 @ 20.0	7.6	RC-T	Spread	1	8	-	-	1	8	15	-	-	-	-	-	-	-	-	-	32,33
BR 22 - 103	135 +	680	60.0	2	2 @ 30.0	7.6	PC-I	Spread	-	-	-	-	2	8	15	-	1	12	-	-	-	-	-	-	32,33
BR 22 - 104	135 +	810	20.0	1	1 @ 20.0	7.6	RC-T	Spread	1	8	-	-	1	8	15	-	-	-	-	-	-	-	-	-	32,33
BR 22 - 105	139 +	340	60.0	3	3 @ 20.0	7.6	RC-T	Spread	-	-	-	-	2	8	15	-	1	12	-	-	1	12	-	-	32,33

(3) LINK 33

Bridge No.	Location km	Location m	Length (m)	Nos. of Span	Span Arrangement	Bridge Width (m)	Types of Super-structures	Sub-structures: Types of Foundations	Abutments: FIX Nos.	FIX ha(m)	FIX Pile La(m)	FIX Pile Nos.	Abutments: MOVE Nos.	MOVE ha(m)	MOVE Pile La(m)	MOVE Pile Nos.	Piers: FIX+FIX Nos.	FIX+FIX hp(m)	FIX+FIX Pile/1 pier Lp(m)	FIX+FIX Pile/1 pier Nos.	Piers: MOVE+FIX Nos.	MOVE+FIX hp(m)	MOVE+FIX Pile/1 pier Lp(m)	MOVE+FIX Pile/1 pier Nos.	Boring Data
BR 33 - 1	147 +	50	40.0	2	2 @ 20.0	7.6	RC-T	Spread	-	-	-	-	2	8	-	-	1	12	-	-	-	-	-	-	32,33
BR 33 - 2	151 +	400	60.0	3	3 @ 20.0	7.6	RC-T	Spread	-	-	-	-	2	8	-	-	1	12	-	-	12	8	-	-	30,31
BR 33 - 3A	158 +	710	20.0	1	1 @ 20.0	7.6	RC-T	Spread	1	8	-	-	1	8	-	-	-	-	-	-	-	-	-	-	30,31
BR 33 - 3B	159 +	750	30.0	1	1 @ 30.0	7.6	RC-T	Spread	1	8	-	-	1	8	-	-	-	-	-	-	-	-	-	-	30,31
BR 33 - 4	165 +	100	40.0	2	2 @ 20.0	9.6	RC-T	Spread	-	-	-	-	2	8	-	-	1	12	-	-	-	-	-	-	28
BR 33 - 5	173 +	280	40.0	2	2 @ 20.0	9.6	RC-T	Spread	-	-	-	-	2	8	-	-	1	12	-	-	-	-	-	-	27B
BR 33 - 6	173 +	600	120.0	3	30+60+30	9.6	PC+ST+PC	Spread	-	-	-	-	2	10	-	-	1	16	-	-	1	16	-	-	27B
BR 33 - 7	175 +	80	20.0	1	1 @ 20.0	7.6	RC-T	Spread	1	8	-	-	1	8	-	-	-	-	-	-	-	-	-	-	27B
BR 33 - 8	177 +	370	20.0	1	1 @ 20.0	7.6	RC-T	Spread	1	8	-	-	1	8	-	-	-	-	-	-	-	-	-	-	27B
BR 33 - 9	180 +	710	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	20B
BR 33 - 10	183 +	60	120.0	2	2 @ 60.0	9.6	Steel Truss	Pile	-	-	-	-	2	6	17	20	1	20	17	30	-	-	-	-	20B
BR 33 - 11	183 +	710	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	20B
BR 33 - 12	184 +	160	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	20B
BR 33 - 13	185 +	790	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	13	16	1	6	13	16	-	-	-	-	-	-	-	-	19,20
BR 33 - 14	187 +	510	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	13	16	1	6	13	16	-	-	-	-	-	-	-	-	19,20
BR 33 - 15	189 +	100	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	16	1	6	12	16	-	-	-	-	-	-	-	-	18
BR 33 - 16	191 +	490	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	8	20	16	1	8	20	16	-	-	-	-	-	-	-	-	16,17
BR 33 - 17	192 +	170	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	20	16	1	6	20	16	-	-	-	-	-	-	-	-	15
BR 33 - 18	194 +	350	20.0	1	1 @ 20.0	9.6	RC-T	Spread	1	8	-	-	1	8	-	-	-	-	-	-	-	-	-	-	14
BR 33 - 19	195 +	760	30.0	1	1 @ 30.0	7.6	PC-I	Spread	1	10	-	-	1	10	-	-	-	-	-	-	-	-	-	-	14
BR 33 - 20	196 +	835	30.0	1	1 @ 30.0	7.6	RC-T	Spread	1	8	-	-	1	8	-	-	-	-	-	-	-	-	-	-	14
BR 33 - 21	197 +	620	20.0	1	1 @ 20.0	7.6	RC-T	Spread	1	8	-	-	1	8	-	-	-	-	-	-	-	-	-	-	13
BR 33 - 22	198 +	360	20.0	1	1 @ 20.0	9.6	RC-T	Spread	1	10	-	-	1	10	-	-	-	-	-	-	-	-	-	-	13
BR 33 - 23	198 +	520	60.0	3	3 @ 20.0	9.6	RC-T	Spread	-	-	-	-	2	10	-	-	1	16	-	-	1	16	-	-	13
BR 33 - 24	199 +	340	20.0	1	1 @ 20.0	9.6	RC-T	Spread	1	8	-	-	1	10	-	-	-	-	-	-	-	-	-	-	13
BR 33 - 25	200 +	35	30.0	1	1 @ 30.0	9.6	RC-T	Spread	1	10	-	-	1	10	-	-	-	-	-	-	-	-	-	-	13
BR 33 - 26	200 +	35	30.0	1	1 @ 30.0	9.6	PC-I	Spread	1	10	-	-	1	10	-	-	-	-	-	-	-	-	-	-	13
BR 33 - 27	201 +	600	120.0	2	2 @ 60.0	6.0	Steel Truss	Pile	RETAIN EXISTING																

PROJECT:ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA) DIRECTORATE GENERAL OF HIGHWAYS(BINA MARGA) MINISTRY OF PUBLIC WORKS	PCIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co,Ltd	DRAWING TITLE: LIST OF PROPOSED BRIDGES (3)	SCALE: / SHEET NO. 127

LIST OF PROPOSED BRIDGES (4)

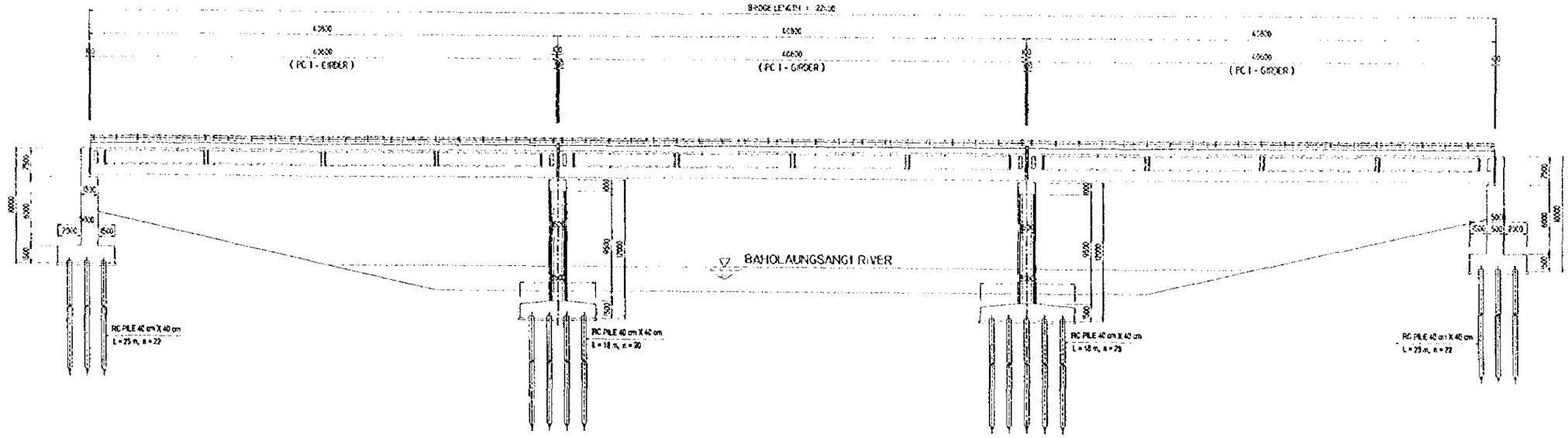
(4) LINK 32

Bridge No.	Location km	Location m	Length (m)	Nos. of Span	Span Arrangement	Bridge Width (m)	Types of Super-structures	Types of Foundations	Sub-structures: Abutments FIX Nos.	FIX ha(m)	FIX Pile La(m)	FIX Nos.	Abutments MOVE Nos.	MOVE ha(m)	MOVE Pile La(m)	MOVE Nos.	Piers FIX+FIX Nos.	FIX+FIX hp(m)	FIX+FIX Pile/1 pier Lp(m)	FIX+FIX Pile/1 pier Nos.	Piers MOVE+FIX Nos.	MOVE+FIX hp(m)	MOVE+FIX Pile/1 pier Lp(m)	MOVE+FIX Pile/1 pier Nos.	Boring Data
BR 32 - 1	203	800	20.0	1	1 @ 20.0	9.6	RC-T	Spread	1	6	-	-	1	6	-	-	-	-	-	-	-	-	-	-	13
BR 32 - 2	205	720	60.0	3	3 @ 20.0	7.6	RC-T	Pile	-	-	-	-	2	10	12	18	1	16	12	28	1	16	12	25	12
BR 32 - 3	206	455	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	10	12	22	1	10	12	22	-	-	-	-	-	-	-	-	12
BR 32 - 4	207	360	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	12
BR 32 - 5	207	760	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	12
BR 32 - 6	210	590	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	12	18	1	6	12	18	-	-	-	-	-	-	-	-	12
BR 32 - 7A	212	570	20.0	1	1 @ 20.0	9.6	PC-I	Pile	1	6	17	18	1	6	17	18	-	-	-	-	-	-	-	-	10,11
BR 32 - 7B	213	585	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	17	22	1	6	17	22	-	-	-	-	-	-	-	-	10,11
BR 32 - 8	214	700	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	17	18	1	6	17	18	-	-	-	-	-	-	-	-	10,11
BR 32 - 9	215	20	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	17	18	1	6	17	18	-	-	-	-	-	-	-	-	10,11
BR 32 - 10	216	100	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	17	18	1	6	17	18	-	-	-	-	-	-	-	-	10,11
BR 32 - 11	217	380	20.0	1	1 @ 20.0	9.6	RC-T	Spread	1	6	-	-	1	8	-	-	-	-	-	-	-	-	-	-	9
BR 32 - 12	218	920	20.0	1	1 @ 20.0	7.6	RC-T	Spread	1	10	-	-	1	6	-	-	-	-	-	-	-	-	-	-	9
BR 32 - 13	220	335	30.0	1	1 @ 30.0	7.6	PC-I	Spread	1	6	-	-	1	10	-	-	-	-	-	-	-	-	-	-	9
BR 32 - 14	220	860	20.0	1	1 @ 20.0	7.6	RC-T	Spread	1	6	-	-	1	6	-	-	-	-	-	-	-	-	-	-	9
BR 32 - 15	221	405	30.0	1	1 @ 30.0	7.6	PC-I	Spread	1	6	-	-	1	8	-	-	-	-	-	-	-	-	-	-	9
BR 32 - 16	225	115	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	8	15	22	1	8	15	22	-	-	-	-	-	-	-	-	8
BR 32 - 17	226	335	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	7	22	1	6	7	22	-	-	-	-	-	-	-	-	6,7
BR 32 - 18	227	535	30.0	1	1 @ 30.0	6.0	Steel Truss	Pile	RETAIN EXISTING																6,7
BR 32 - 19	229	640	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	7	18	1	6	7	18	-	-	-	-	-	-	-	-	6,7
BR 32 - 20	230	550	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	7	18	1	6	7	18	-	-	-	-	-	-	-	-	6,7
BR 32 - 21	230	750	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	7	18	1	6	7	18	-	-	-	-	-	-	-	-	6,7
BR 32 - 22	232	800	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	7	18	1	6	7	18	-	-	-	-	-	-	-	-	6,7
BR 32 - 23	233	350	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	7	18	1	6	7	18	-	-	-	-	-	-	-	-	6,7
BR 32 - 24	235	465	30.0	1	1 @ 30.0	6.0	Steel Truss	Pile	RETAIN EXISTING																5
BR 32 - 25	236	680	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	8	11	16	1	8	11	16	-	-	-	-	-	-	-	-	5
BR 32 - 26	236	930	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	8	11	16	1	8	11	16	-	-	-	-	-	-	-	-	5
BR 32 - 27	237	660	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	11	16	1	6	11	16	-	-	-	-	-	-	-	-	5
BR 32 - 28	239	120	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	11	16	1	6	11	16	-	-	-	-	-	-	-	-	5
BR 32 - 29	239	890	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	11	16	1	6	11	16	-	-	-	-	-	-	-	-	5
BR 32 - 30	240	400	40.0	2	2 @ 20.0	9.6	RC-T	Pile	-	-	-	-	2	8	11	16	1	12	11	20	-	-	-	-	5
BR 32 - 31	241	170	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	8	11	16	1	10	11	16	-	-	-	-	-	-	-	-	5
BR 32 - 32	243	20	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	13	18	1	8	13	18	-	-	-	-	-	-	-	-	3,4
BR 32 - 33	243	365	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	13	22	1	6	13	22	-	-	-	-	-	-	-	-	3,4
BR 32 - 34	246	50	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	13	18	1	6	13	18	-	-	-	-	-	-	-	-	3,4
BR 32 - 35	246	230	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	13	18	1	6	13	18	-	-	-	-	-	-	-	-	3,4
BR 32 - 36	248	480	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	13	18	1	6	13	18	-	-	-	-	-	-	-	-	3,4
BR 32 - 37	248	670	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	13	18	1	6	13	18	-	-	-	-	-	-	-	-	3,4
BR 32 - 38	249	345	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	6	13	22	1	8	13	22	-	-	-	-	-	-	-	-	3,4
BR 32 - 39	250	745	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	6	13	22	1	6	13	22	-	-	-	-	-	-	-	-	3,4
BR 32 - 40	251	520	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	13	18	1	6	13	18	-	-	-	-	-	-	-	-	3,4
BR 32 - 41	254	50	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	15	20	1	6	15	20	-	-	-	-	-	-	-	-	1,2
BR 32 - 42	255	270	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	17	20	1	6	17	20	-	-	-	-	-	-	-	-	1,2
BR 32 - 43	256	390	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	8	17	16	1	8	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 44	262	685	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	6	17	20	1	6	17	20	-	-	-	-	-	-	-	-	1,2
BR 32 - 45	263	385	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	10	17	20	1	10	17	20	-	-	-	-	-	-	-	-	1,2
BR 32 - 46	263	630	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 47	263	820	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 48	264	920	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 49	269	510	45.0	1	1 @ 45.0	6.0	Steel Truss	Pile	RETAIN EXISTING																1,2
BR 32 - 50	274	590	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 51	274	680	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 52	275	430	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	8	17	16	1	8	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 53	279	80	20.0	1	1 @ 20.0	7.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 54	279	225	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	8	17	20	1	8	17	20	-	-	-	-	-	-	-	-	1,2
BR 32 - 55	279	425	30.0	1	1 @ 30.0	7.6	PC-I	Pile	1	8	17	20	1	8	17	20	-	-	-	-	-	-	-	-	1,2
BR 32 - 56	279	810	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 57	280	915	30.0	1	1 @ 30.0	9.6	PC-I	Pile	1	6	17	20	1	6	17	20	-	-	-	-	-	-	-	-	1,2
BR 32 - 58	282	260	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	8	17	16	1	8	17	16	-	-	-	-	-	-	-	-	1,2
BR 32 - 59	282	950	20.0	1	1 @ 20.0	9.6	RC-T	Pile	1	6	17	16	1	6	17	16	-	-	-	-	-	-	-	-	1,2

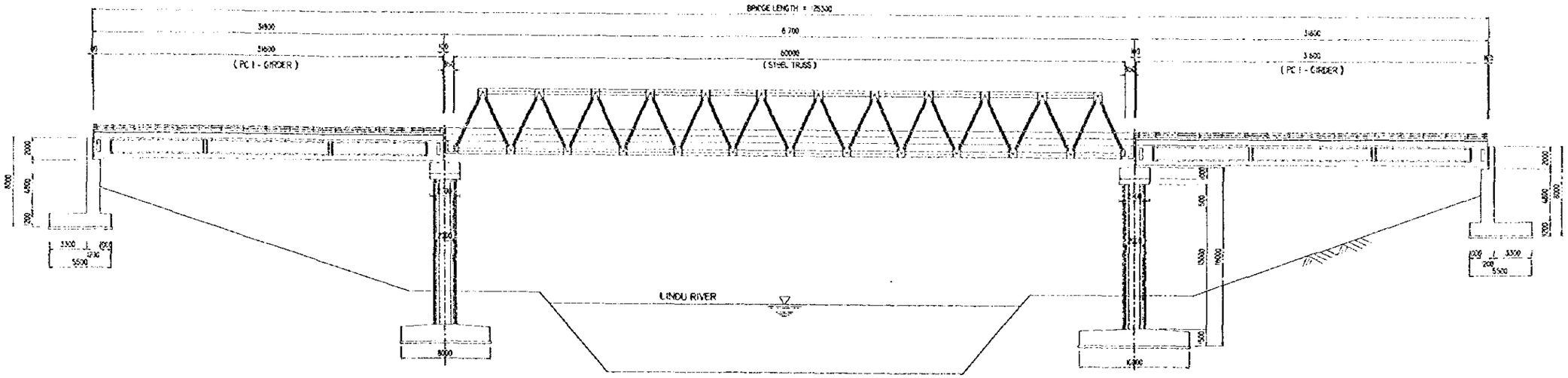
PROJECT:ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY(JICA) DIRECTORATE GENERAL OF HIGHWAYS(BINA MARGA) MINISTRY OF PUBLIC WORKS	PCIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co.,Ltd	DRAWING TITLE: LIST OF PROPOSED BRIDGES (4)	SCALE:	SHEET NO. 128

GENERAL VIEWS OF LONG SPAN BRIDGES (1)

(1) GENERAL VIEW OF BR 22-29 (STA. 56+530)



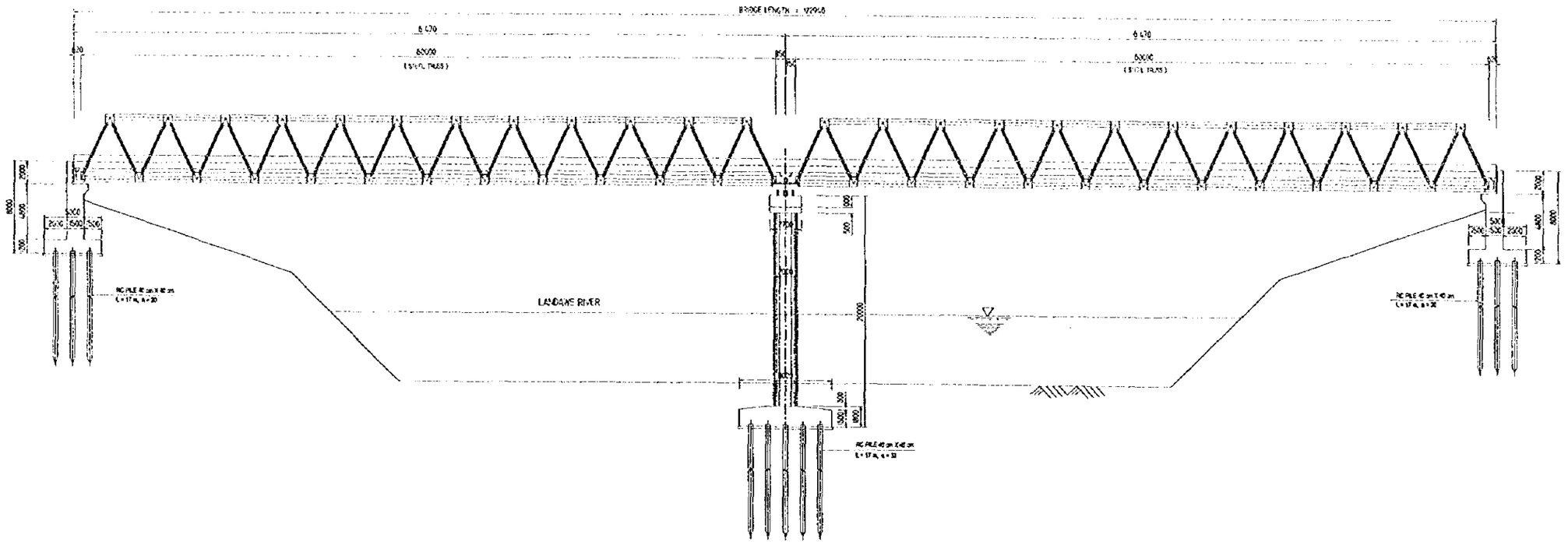
(2) GENERAL VIEW OF BR 33-6 (STA. 173+600)



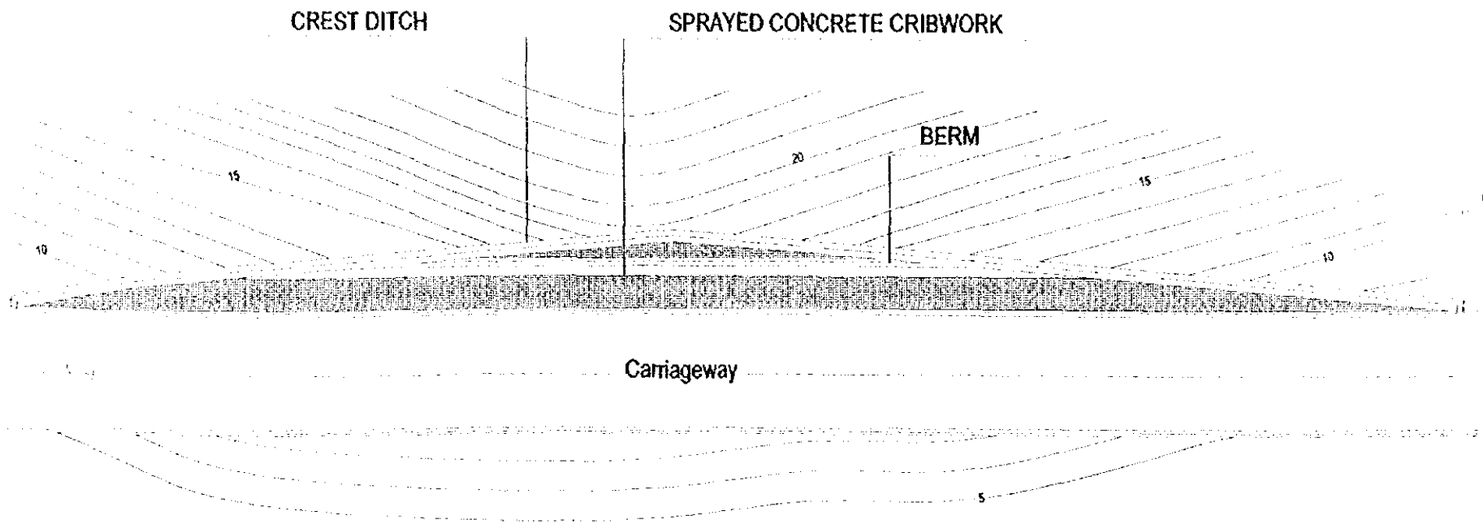
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: GENERAL VIEWS OF LONG SPAN BRIDGES (1)	SCALE: 1 : 400	SHEET NO. 129

GENERAL VIEWS OF LONG SPAN BRIDGES (2)

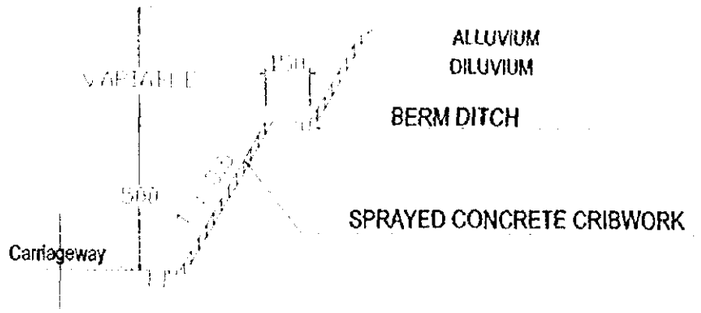
(3) GENERAL VIEW OF BR 33-10 (STA. 183+060)



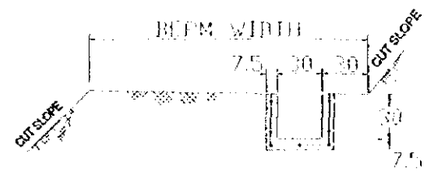
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: GENERAL VIEWS OF LONG SPAN BRIDGES (2)	SCALE: 1 : 400	SHEET NO. 130



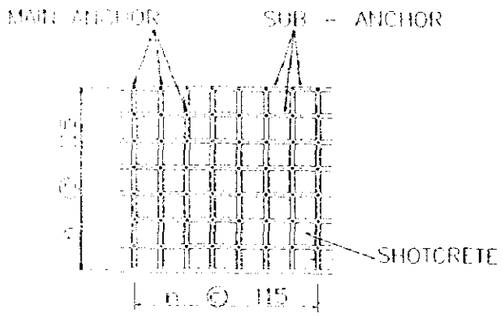
PLAN
SCALE 1:500



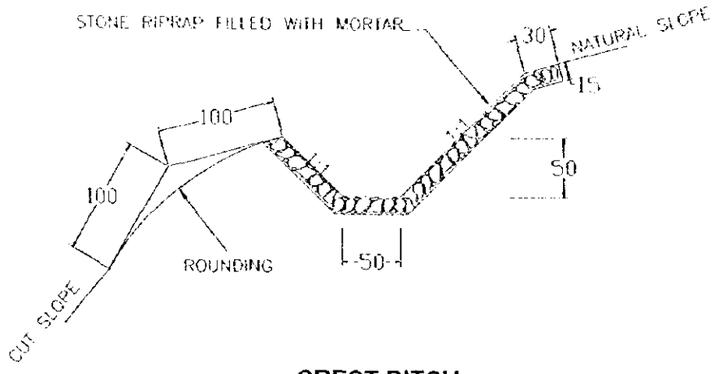
CROSS SECTION
SCALE 1:100



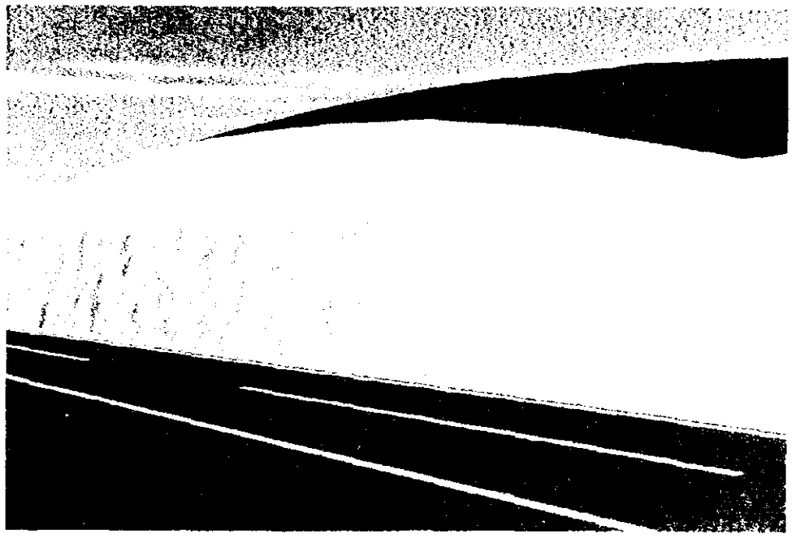
BERM DITCH
SCALE 1:40



DETAIL

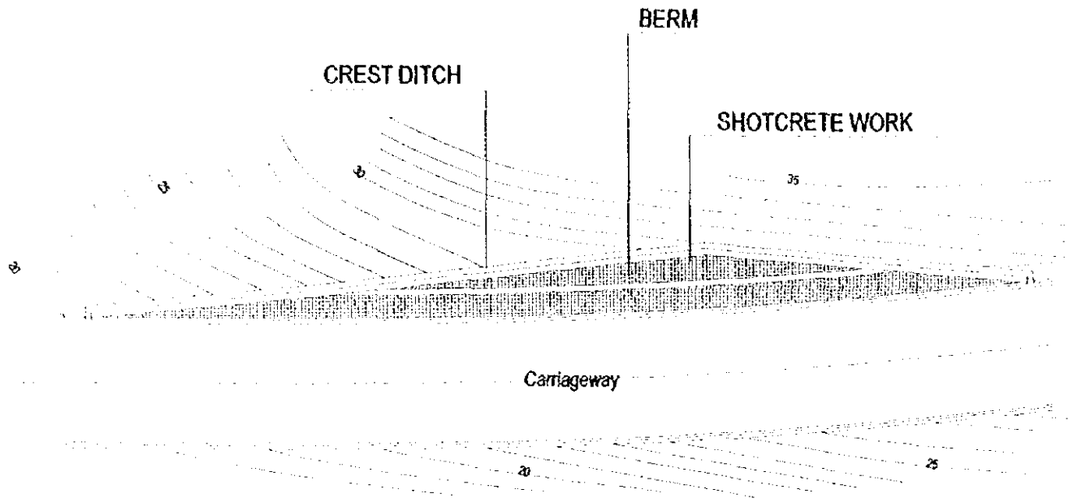


CREST DITCH
SCALE 1:50

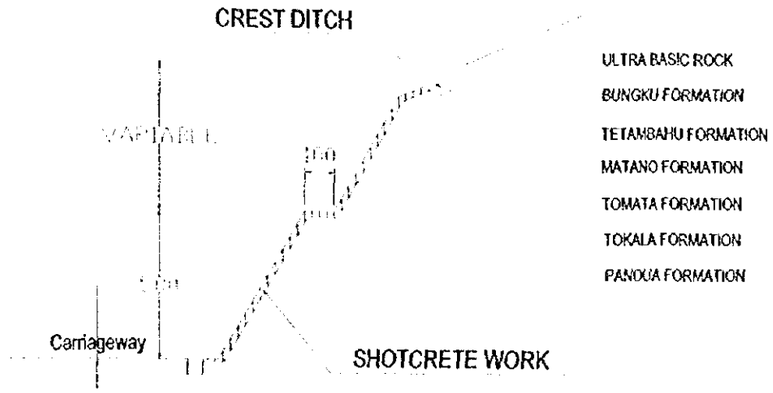


PERSPECTIVE VIEW

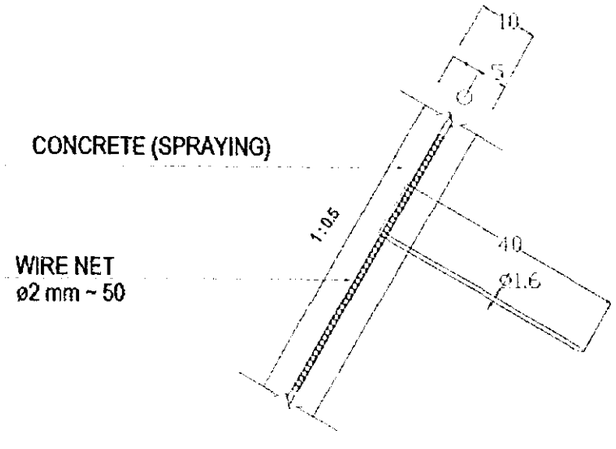
PROJECT : ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINAMARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE : SPRAYED CONCRETE CRIBWORK	SCALE : VARIABLE	SHEET NO. 131



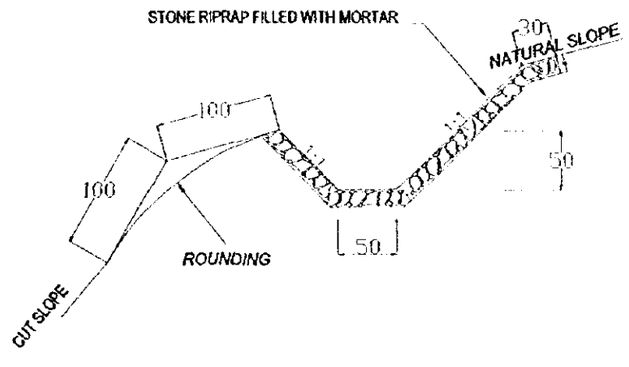
PLAN
SCALE 1:500



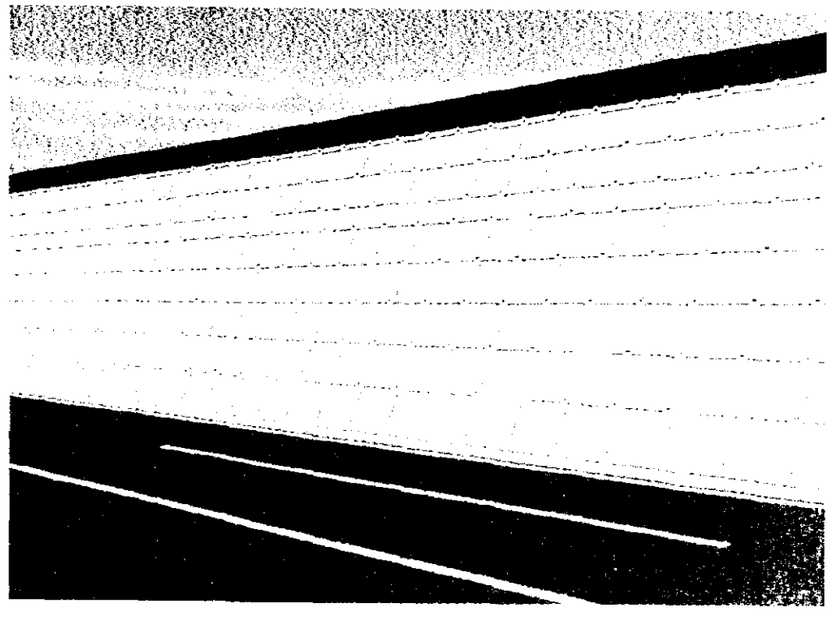
CROSS SECTION
SCALE 1:200



SHOTCRETE WORK
SCALE 1:10



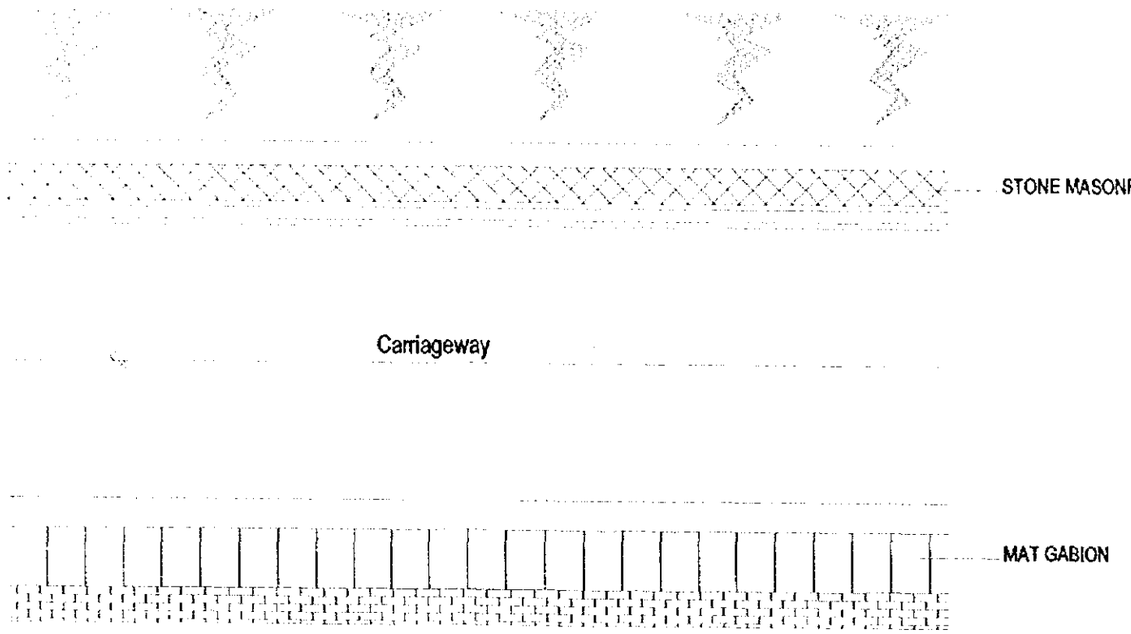
CREST DITCH
SCALE 1:50



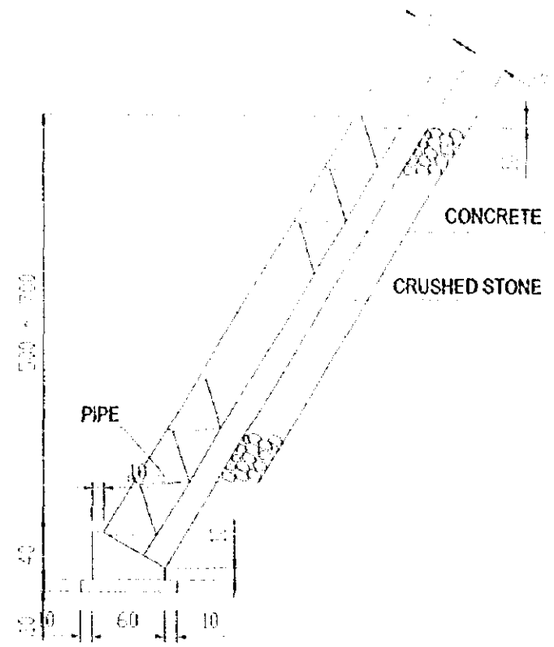
PERSPECTIVE VIEW

PROJECT : ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINAMARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE : SHOTCRETE WORK	SCALE : VARIABLE	SHEET NO. 132

PLAN

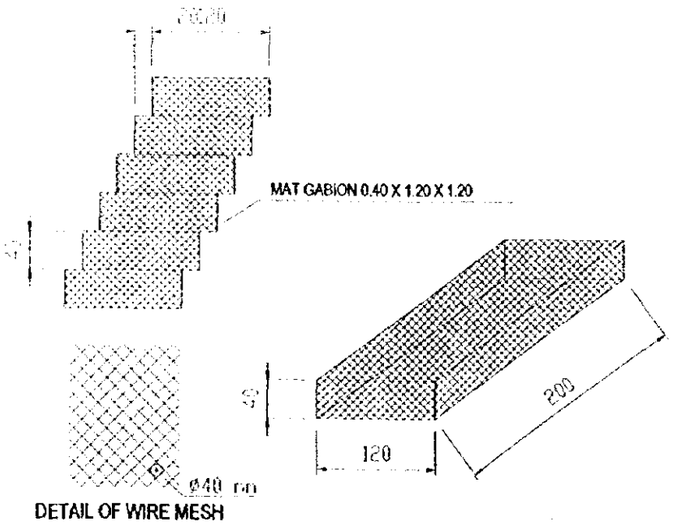


STONE MASONRY



MAT GABION RETAINNING WALL

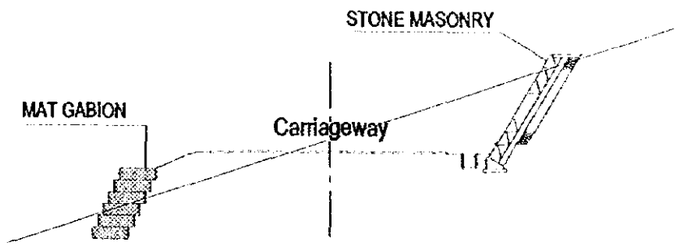
SCALE 1 : 60

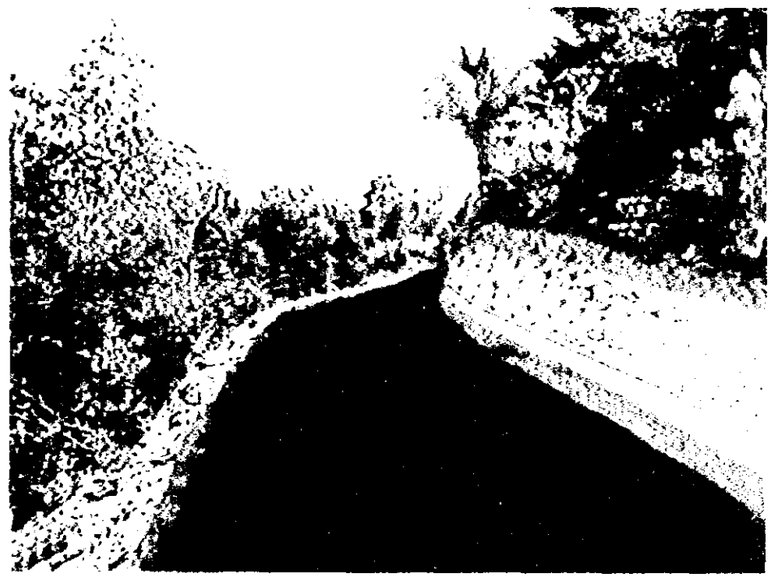


DETAIL OF WIRE MESH

CROSS SECTION

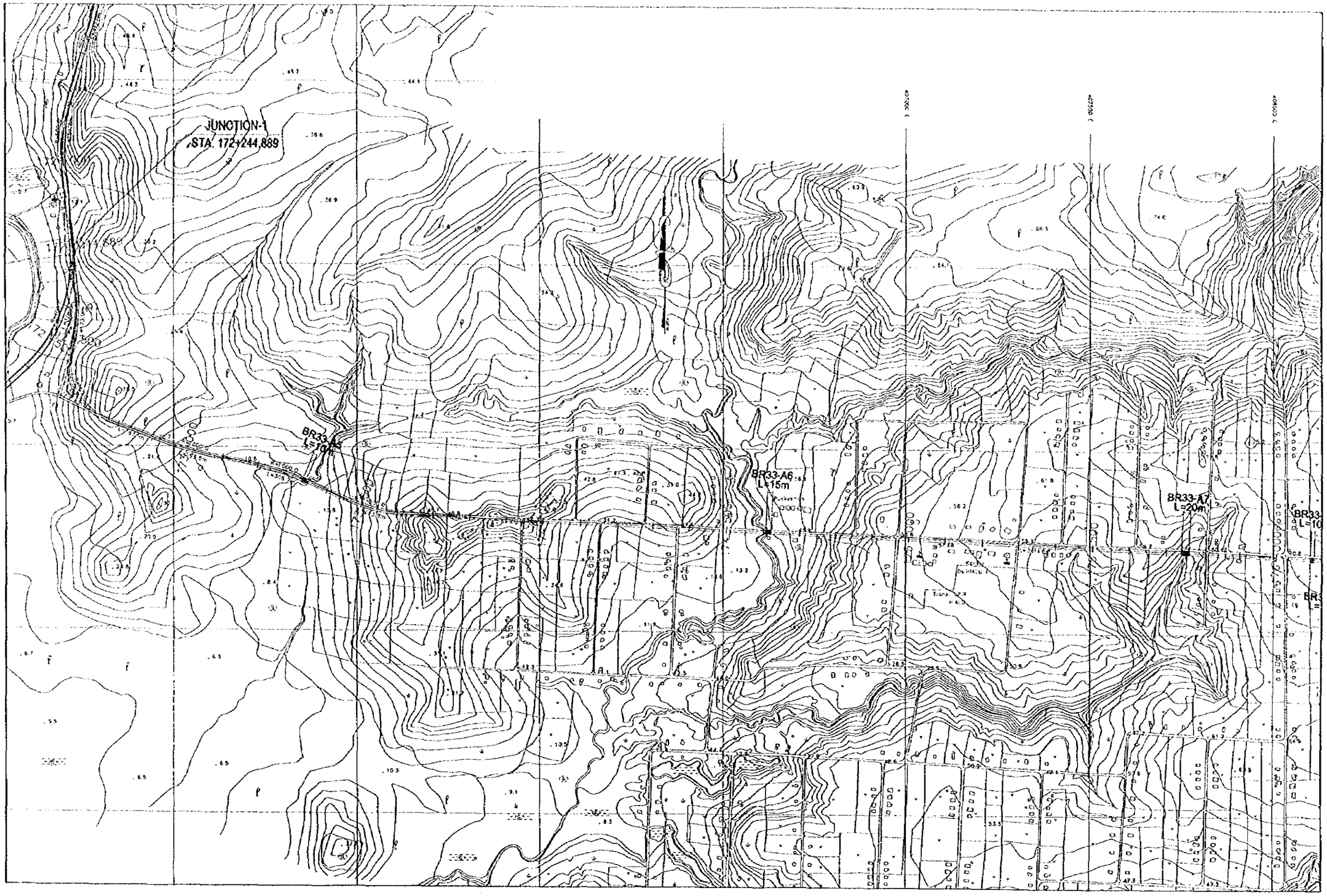
SCALE 1 : 200



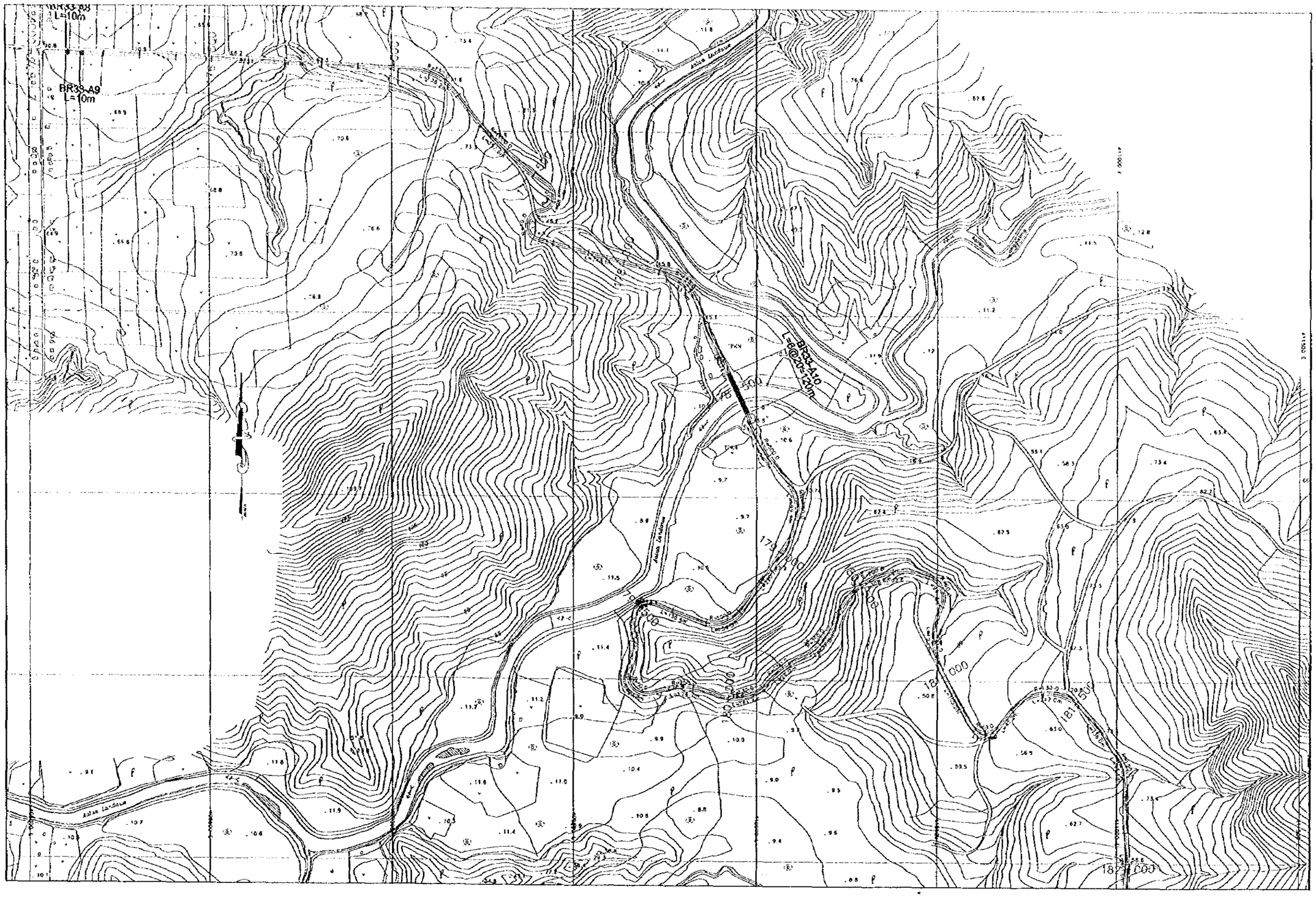


PERSPECTIVE VIEW

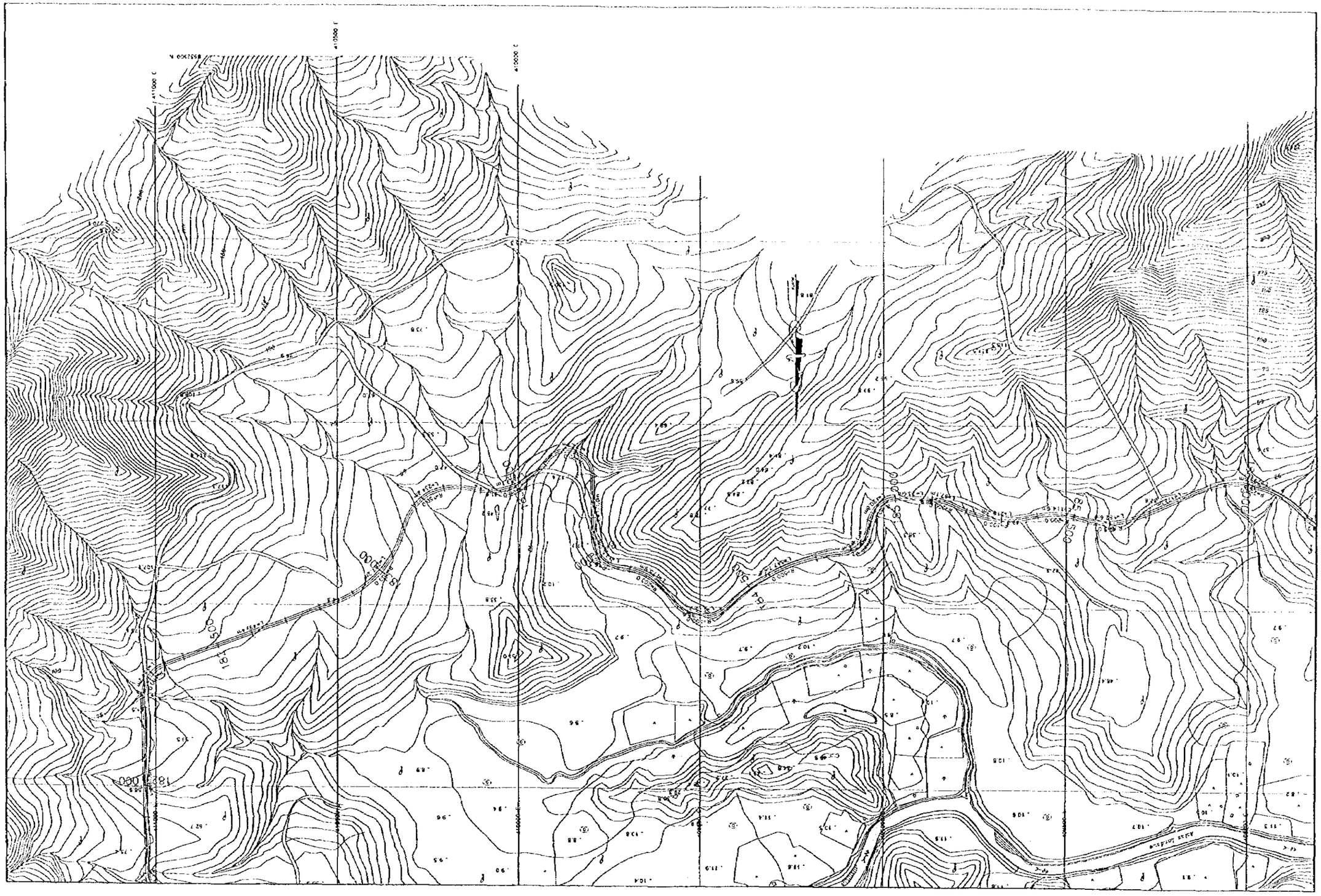
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: MAT GABON RETAINNING WALL	SCALE: VARIABLE	SHEET NO. 133



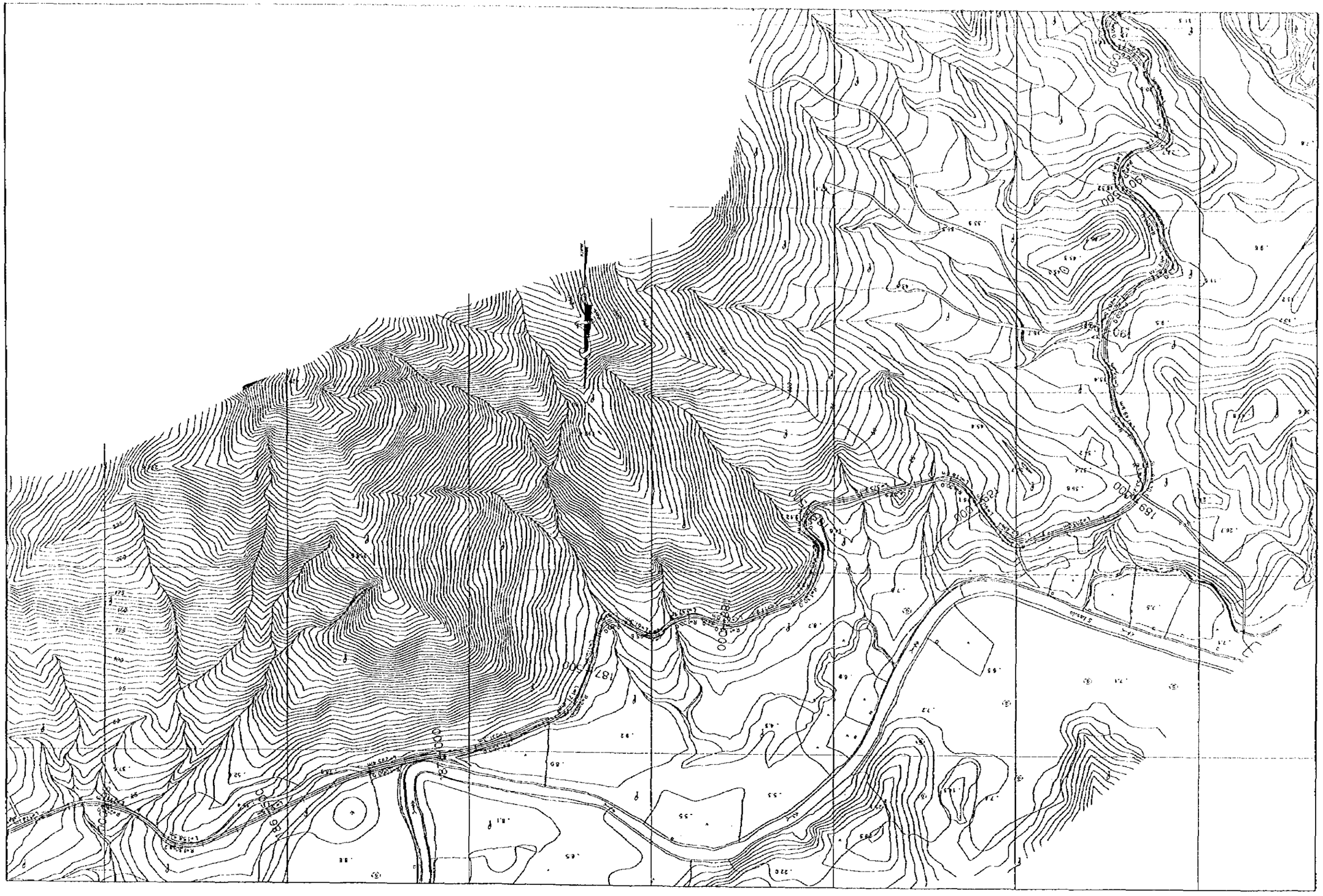
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PLAN (ALT-1) (172+244.889 - 176+000)	SCALE: 1 : 10000	SHEET NO. 134



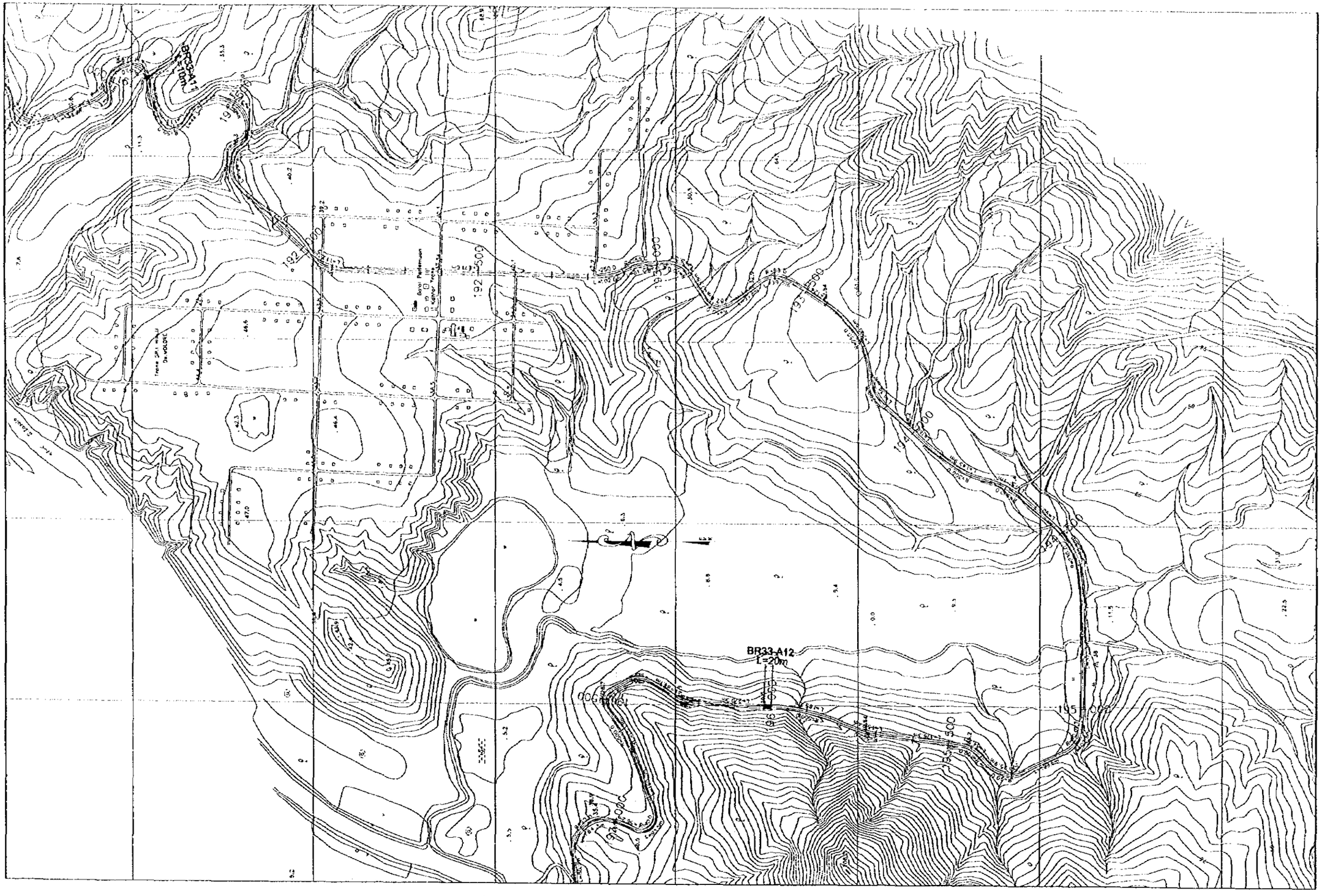
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PLAN (ALT-2) (176+000 - 182+000)	SCALE: 1 : 10000	SHEET NO. 135



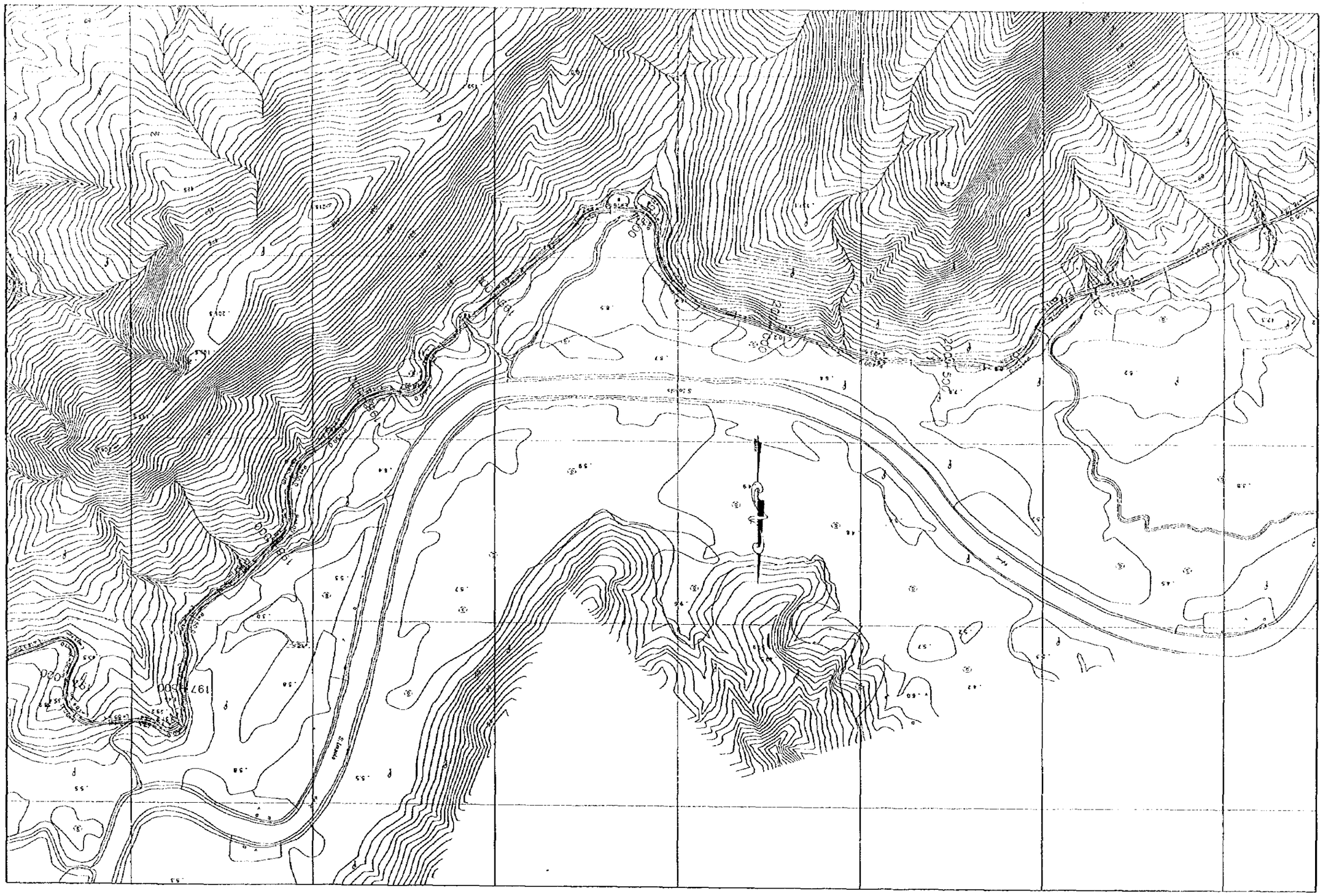
PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PLAN (ALT-3) (182+000 - 186+000)	SCALE: 1 : 10000	SHEET NO. 136



PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PLAN (ALT-4) (186+000 - 191+000)	SCALE: 1 : 10000	SHEET NO. 137



PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PLAN (ALT-5) (191+000 - 197+000)	SCALE: 1 : 10000	SHEET NO. 138



PROJECT: ROAD NETWORK STUDY IN CENTRAL AND SOUTH-EAST SULAWESI	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) DIRECTORATE GENERAL OF HIGHWAYS (BINA MARGA) MINISTRY OF PUBLIC WORKS	PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING Co., Ltd.	DRAWING TITLE: PLAN (ALT-6) (197+000 - 201+500)	SCALE: 1 : 10000	SHEET NO. 139