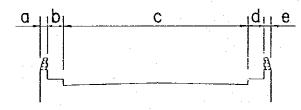
List of Bridge

LIST OF BRIDGES (AD-2-1:SD)

			A) dabatala ao rom			
Station	Materials	Structural System	Width (a+b+c+d+e:m)	Span and Length (m)	Remarks	(Fig.)
1+378	RC	SP.SL	0.3+2.2+15.0+2.2+0.3=20.0 (0.3+1.2+8.0+1.2+0.3=11.0)	6.0+10.0+6.0=22.0	Widened to 15.0 m.	(A)
6+247	RC	SP.SL	2*(0.3+1.2+10.5)+3.2=27.2 (0.3+1.2+12.0+1.2+0.3=15.0)	6.0+8.0+6.0=20.0	Widened to 2*10.5 m.	(B)
12+332	RC	SP.SL	2*(0.3+1.2+10.5)+3.2=27.2 (0.3+1.2+8.0+1.2+0.3=11.0)	3*5.0=15.0	Widened to 2*10.5 m.	(B)
15+500	RC	SP.SL	2*(0.3+1.2+10.5+0.5=12.5)	1*10.0=10.0	New construction Divided 2 bridges	(C)
17+000	RC	SP.SL	2*(0.3+1.2+10.5+0.5=12.5)	2*7.0=14.0	New construction Divided 2 bridges	(C).
25+000	RC	SP.SL	2*(0.3+1.2+10.0)+3.2=26.2 (0.3+1.2+8.0+1.2+0.3=11.0)	1*10.0=10.0	Widened to 2*10.0 m.	(D)
29+730	RC	SP.SL	2*(0.3+1.2+10.0)+3.2=26.2 (0.3+1.2+8.0+1.2+0.3=11.0)	1*10.0=10.0	Widened to 2*10.0 m.	(D)
34+950	RC	SP.SL	2*(0.3+1.2+10.0)+3.2=26.2 (0.3+1.2+8.0+1.2+0.3=11.0)	3*6.0=18.0	Widened to 2*10.0 m.	(D)

Note: (1) Materials
RC: Reinforced Concrete Bridge
(2) Structural System
SP.SL: Simply Supported Slab
(3) Width and length in parentheses on lower column shows the existing conditions.



LIST OF BOX AND PIPE CULVERT

I	OHLIADO	CULVERT	SIZE (m)	NO. of	CU	LVERT LENG	TH (m)
STATION	CULVERT	PIPE	вох	LOCATIONS		EXTENDED	NEW
	TYPE	NO. of ROW x	NO. of CELLS	TOCALIONS	EXISTING	CONST-	CONST-
		DIAMETER	(CLEAR SPAN			RUCTION	RUCTION
		District	x DEPTH)				·
01030	Pipe	1xO1.00		1	14.0	9.0	
0+230 0+502	Pipe	2x 00.60	A London	1	14.0	9.0	
0+562	Pipe	1x⊙0.60		1	14.0	9.0	
1+276	Pipe	2x⊙1.00		1	18.0	9.0	
		1x 🔾 0.60		1	16.0	10.0	
2+113	Pipe	1x⊙0.60		1	16.0	14.0	
2+259	Pipe			1	16.0	14.0	
2+463	Pipe	1x 00.60		. 1	17.0	14.0	j
2+719	Pipe	1xO0.60		1	17.0	14.0	
2+323	Pipe	1x⊙0.60		1 1	13.0	14.0	4.
3+271	Pipe	1x⊙0.60		1	14.0	14.0	
3+591	Pipe	1x⊙0.60	1(0 40-0 40)	1	13.0	14.0	•
4+343	Вох	1.000.00	1(2.40x2.40)	i 1	12.0	14.0	
4+661	Pipe	1x⊙0.60		1 .	Į	1	İ
4+932	Pipe	1x⊙0.60		1	12.0	9.0	
4+952	Pipe	1x⊙0.80	}	j 1	12.0	9.0	}
5+207	Pipe	1x⊙0.60		1	13.0	9.0	
5+387	Pipe	1x⊙0.40		1	13.0	9.0	
5+540	Pipe	1x⊙1.00		1	10.0	9.0	
5+759	Pipe	1x⊙0.60		1	13.0	13.0	}
5+789	Pipe	1x⊙1.00		1	12.0	13.0	
5+973	Pipe	2x⊙1.00		1	13.0	14.0	
6+182	Pipe	1x⊙0.60		1	16.0	14.0]
6+706	Pipe	2x⊙1.00		1	18.0	14.0	
6+823	Box	· .	2(1.80x1.50)	, 1	12.0	14.0	
7+199	Pipe	1x⊙0.40		1	33.0	14.0	[]
7+286	Box		2(1.80x1.50)	1	14.0	14.0	
8+627	Pipe	1x⊙0.80		1	15.0	14.0	
8+660	Pipe	3x⊙0.80		1	16.0	14.0	
8+712	Вох		3(1.50x1.50)	1	12.0	14.0	•
9+107	Pipe	1x⊙0.80		1	15.0	14.0	}
9+111	Pipe	1x⊙1.00		1	16.0	14.0	
9+312	Вох		2(2.10x2.10)	1	12.0	14.0	
9+377	Pipe	3x⊙1.00		1	16.0	14.0	
9+534	Pipe	2x⊙1.00		. 1	19.0	14.0	
9+601	Pipe	3x⊙1.00		1	17.0	14.0	
9+878	Box		2(2.10x1.80)	. 1	12.0	14.0	
9+995	Pipe	2x⊙0.80	- (m. 10/11/00)	î	18.0	14.0	
9+995	Pipe	1x⊙0.60		Î.	18.0	14.0	
10+487	Pipe	1x⊙0.60		1	17.0	14.0	
10+467 10+607	Pipe	1x00.80		1	22.0	14.0	

	·				- CI	TUPDE I PAG	
	CULVERT	CULVERT	SIZE (m)	NO. of	LU 	LVERT LENG	(m)
STATION	ТУРЕ	PIPE	вох	LOCATIONS		EXTENDED	NEW
	III	NO. of ROW x	NO. of CELLS	200,112	EXISTING	CONST- RUCTION	CONST- RUCTION
		DIAMETER	(CLEAR SPAN x DEPTH)	18. Tu		RUGITON	MOOITON
10.000	Dana	1x⊙0.60		1	16.0	14.0	
10+932	Pipe	1		1	18.0	14.0	
11+332	Pipe	1x00.60		. 1	11.0	14.0	
11+512	Pipe	1x⊙0.60	•	. 1	31.0	14.0	
12+002	Pipe	1x⊙0.60		1	20.0	14.0	
12+052	Pipe	2x⊙1.00	- (- an + on)	1	1	14.0	
12+878	Вох		3(1.80x1.20)	1	12.0	14.0	
13+145	Pipe	1x⊙0.60		1	16.0	1	
13+597	Box	·	3(1.80x1.50)	1	12.0	14.0	
13+742	Pipe	2x⊙0.40		1	10.0	14.0	
14+098	Box	l de la composition della comp	2(1.20x1.00)	1	13.0	14.0	
14+145	Pipe	1x⊙0.60		1	16.0	14.0	
14+334	Pipe	1x⊙0.60		1	18.0	14.0	
14+564	Pipe	2x⊙0.60		1	36.0	14.0	.* *
14+838	Pipe	1x⊙0.60		1	18.0	14.0	
15+300-18+550	Pipe	2x⊙1.00		2			32.0
	Pipe	1xO0.80		1			32.0
18+883	Pipe	1xO0.60		1	18.0	13.0	}
19+214	Pipe	1x⊙0.80	.	1	20.0	13.0	
19+832	Pipe	1xQ0.80		1	19.0	13.0	
19+863	Pipe	1x00.80		ĺ	20.0	13.0]
20+682	Pipe	1xO1.00		Î	20.0	13.0	
		1x 00.60		1	18.0	13.0	
20+682	Pipe			1	18.0	13.0	
21+492	Pipe	1x00.60		1	24.0	13.0) ·
22+094	Pipe	1x 00.60		1	20.0	4	ŧ
22+357	Pipe	1xO1.00	9/1 50-1 90	1		13.0	1
22+452	Вох	000.00	3(1.50x1.20)	1	42.0	13.0	} -
23+242	Pipe	2x⊙0.80		1	40.0	13.0	
23+667	Pipe	2x⊙1.00		1	40.0	13.0	
24+292	Pipe	1x⊙0.60		1	21.0	13.0	
24+354	Pipe	2x⊙0.60	1.4	1	36.0	13.0	
25+792	Pipe	1x⊙0.60		1	18.0	13.0	
25+909	Pipe	1x⊙0.60		1	15.0	13.0	
25+916	Pipe	1x⊙0.60		1	18.0	13.0	
26+019	Вох	1 1 2 2 3 1 1 1	3(1.50x1.20)	1	12.0	13.0	1
26+518	Pipe	1x⊙1.00	1	1	15.0	13.0	
26+612	Pipe	1x⊙1.00		i	16.0	13.0	1
26+692	Pipe	1x⊙0.60		1	20.0	13.0	
27+018	Pipe	1xO0.80		1	15.0	13.0	1
27+115	Pipe	1x⊙0.60	1	1	18.0	13.0	1
27+582	Pipe	2x⊙0.80	1	l î	24.0	13.0	la esta
AITOUL	TThe	DA. 00.00	1			10.0	L

LIST OF BOX AND PIPE CULVERT

	CULVERT	CULVERT	SIZE (m)	NO. of	CULVERT LENGTH (m)		
STATION	TYPE	PIPE	вох	LOCATIONS		EXTENDED	NEW
	111.15	NO. of ROW X DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)	LOCATIONS	EXISTING	CONST- RUCTION	CONST- RUCTION
28+482	Pipe	1x⊙0.60		1	19.0	13.0	
28+934	Pipe	1x⊙0.60		1	19.0	13.0	
29+829	Pipe	1x⊙0.60		. 1	21.0	13.0	
30+464	Pipe	1x⊙0.80		1	17.0	13.0	
30+792	Pipe	1x⊙0.60		1	19.0	13.0	
31+011	Pipe	3x⊙0.60		1	20.0	13.0	
30+792	Pipe	1x⊙0.60		1	19.0	13.0	
31+011	Pipe	3x⊙0.60		1	20.0	13.0	
31+595	Pipe	2x⊙1.00	[.	1	43.0	13.0	
32+950	Pipe	1x⊙0.60		1	13.0	13.0	
33+582	Pipe	1x⊙0.80	Į	1	14.0	13.0	
34+252	Pipe	1x⊙0.60		1	19.0	13.0	
34+787	Pipe	1x⊙0.40		1	11.0	13.0	
35+160	Pipe	1x⊙0.60		1	14.0	13.0	İ
35+757	Pipe	1x⊙0.60		1	14.0	13.0	
38+368	Pipe	1x⊙0.60		1	15.0	13.0	

2) AD-2-2

Drawing

8.

9.

SHEET NO.

1 4.	Plan and Profile
5.	(A) Reinforced Concrete Slab Bridge
6.	(B) Reinforced Concrete Slab Bridge
7.	(C) Tunnel for STA. 7+945

LIST OF DRAWINGS

(D) Tunnel for STA. 30+070 (Airport)
Box Culvert

10. Pipe Culvert

ABBREVIATION AND SYMBOLS FOR PROFILE AND PLAN

: Alignment of Proposed Route
: Proposed Bridge
: Proposed Box Culvert

☐ : High Water Level

No. : Number

R : Radius of Curvature

L : Length of Curve

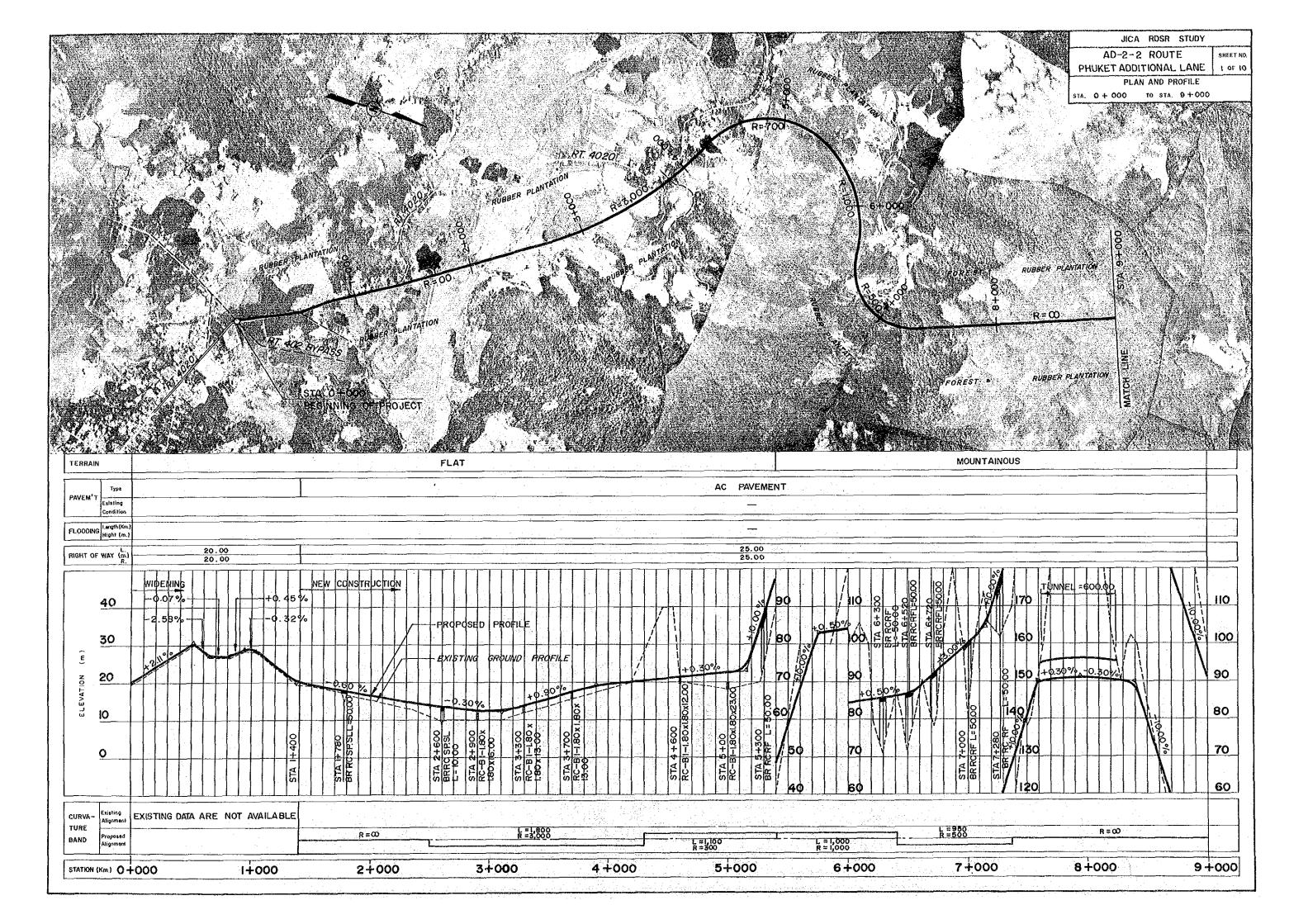
BR.RC.SP.SL L : Reinforced Concrete Bridge (Bridge Length)

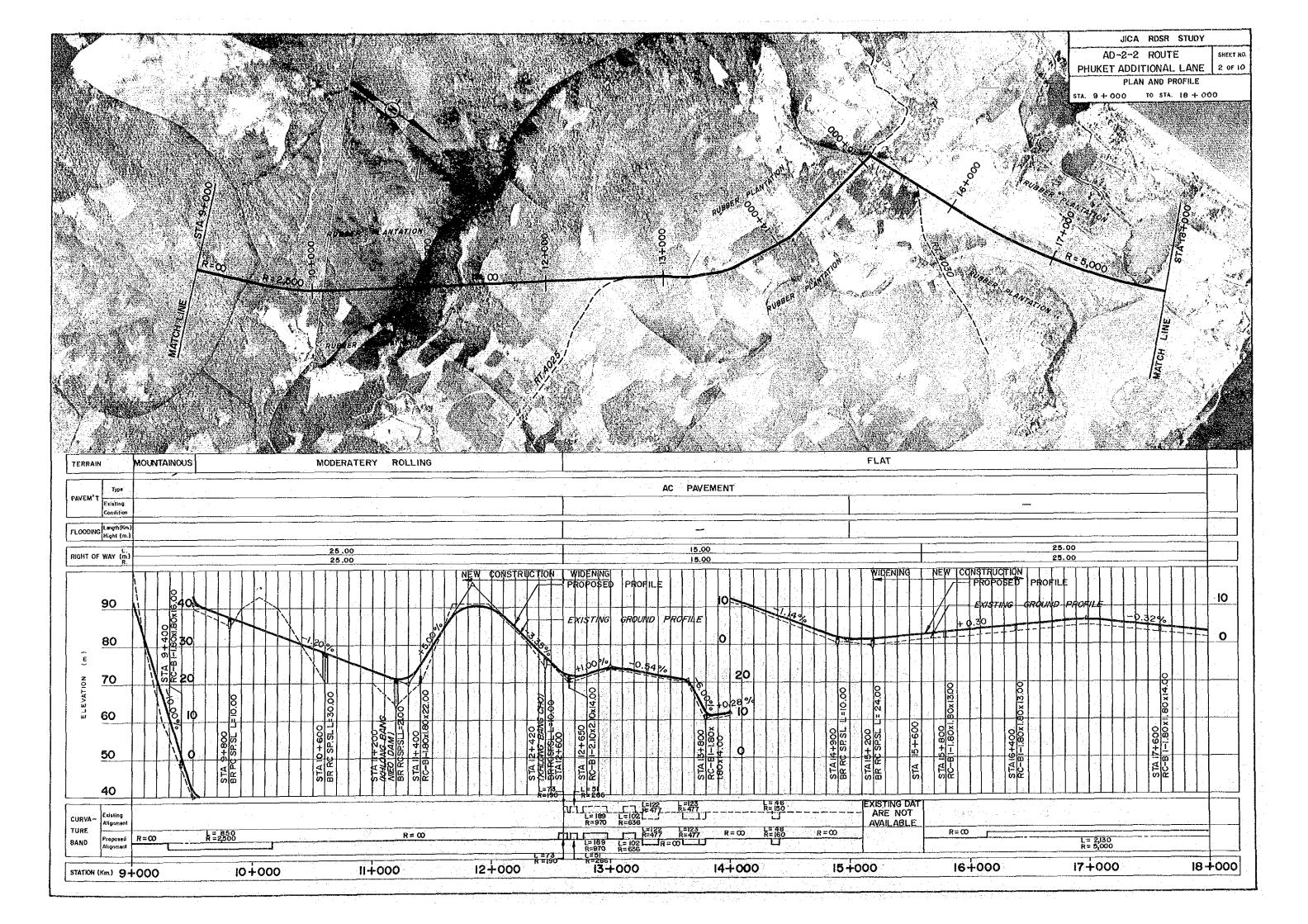
BR.PC.GRDR L : Prestressed Concrete Bridge (Bridge Length)

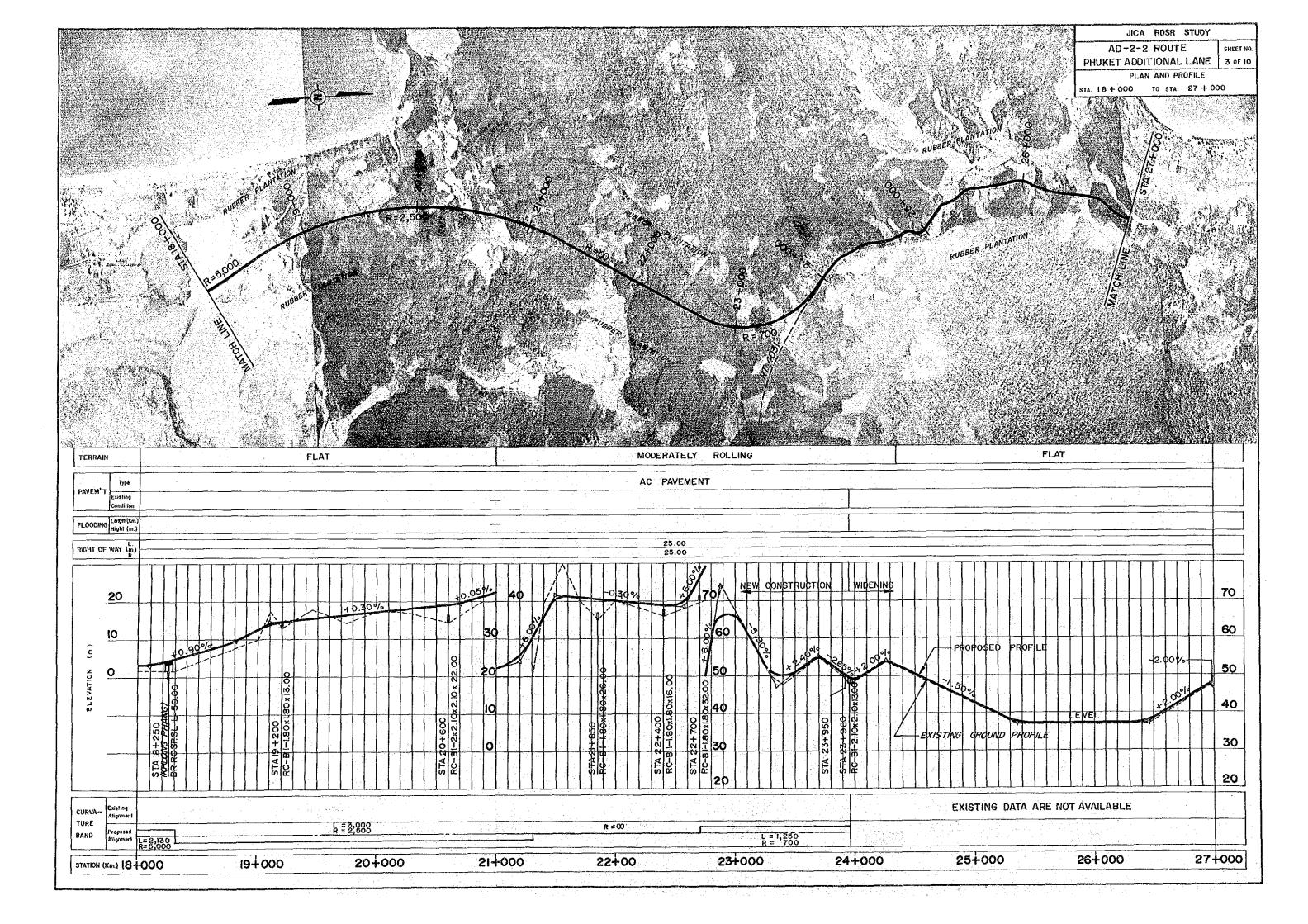
BR.ST.SP.TR L : Steel Bridge (Bridge Length)

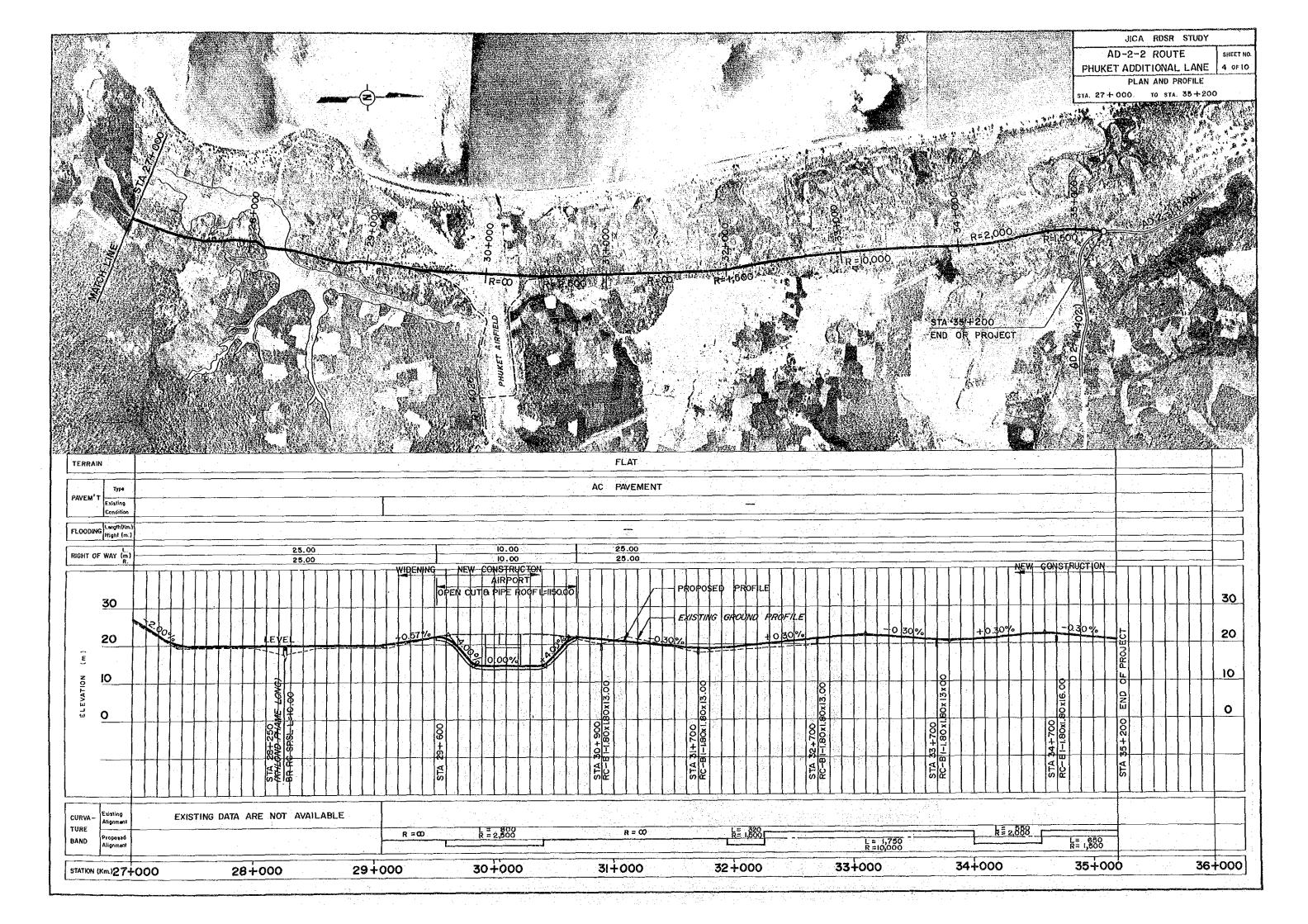
RC-B m - n x a x b x i : Box Culvert
(No. of Locations - No. of Cells
x Clear Span x Depth x Length)

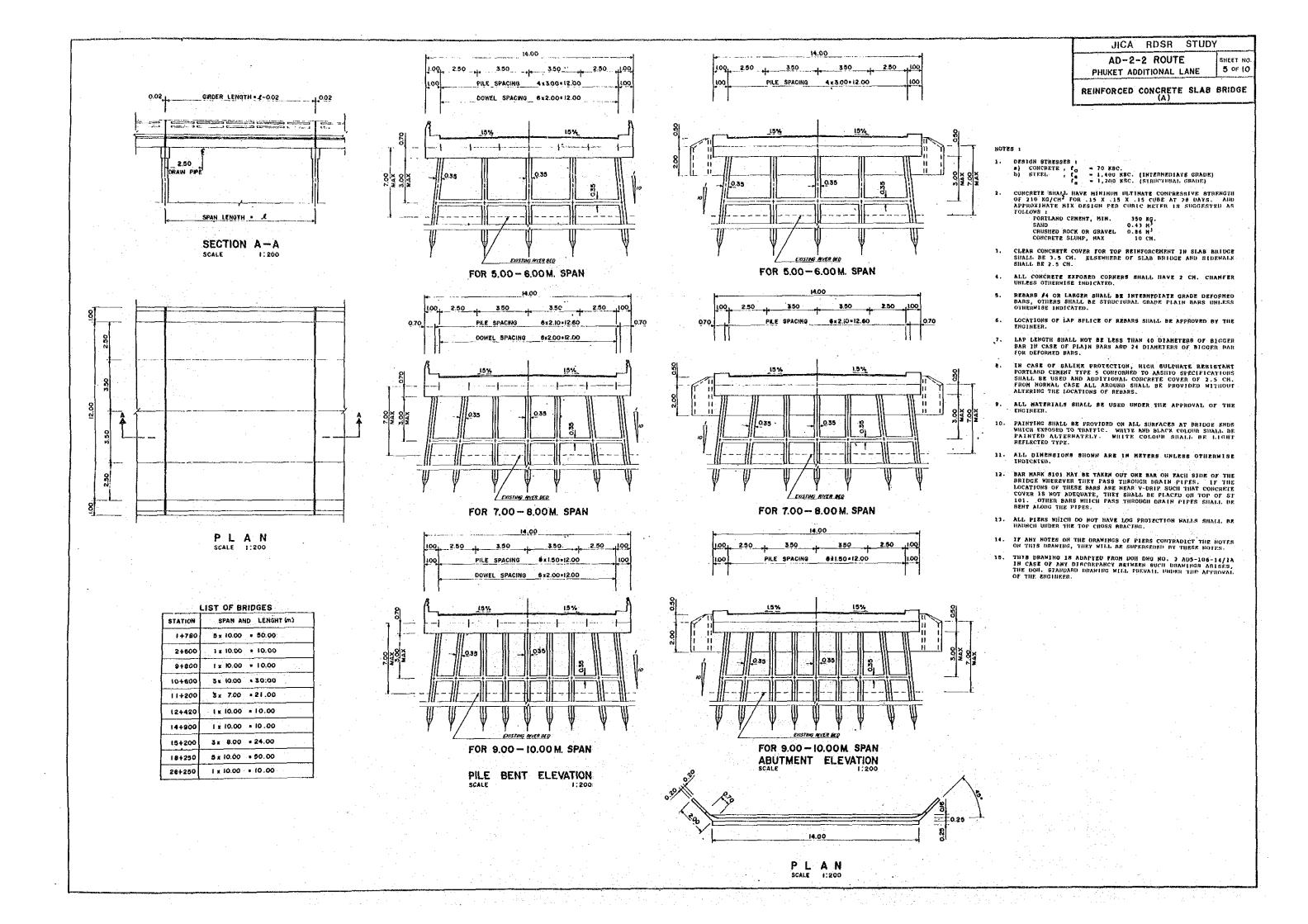
: Water Level

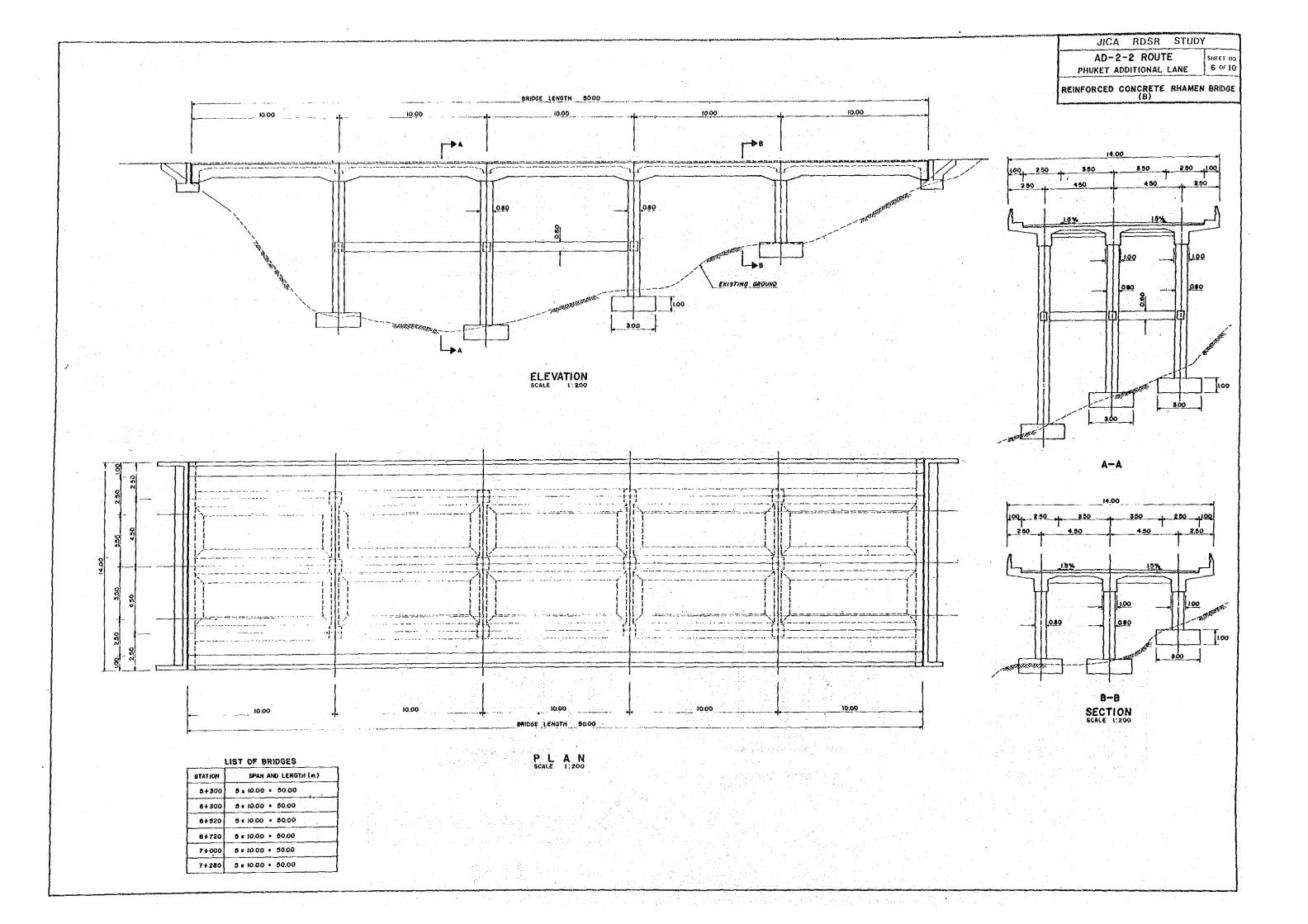






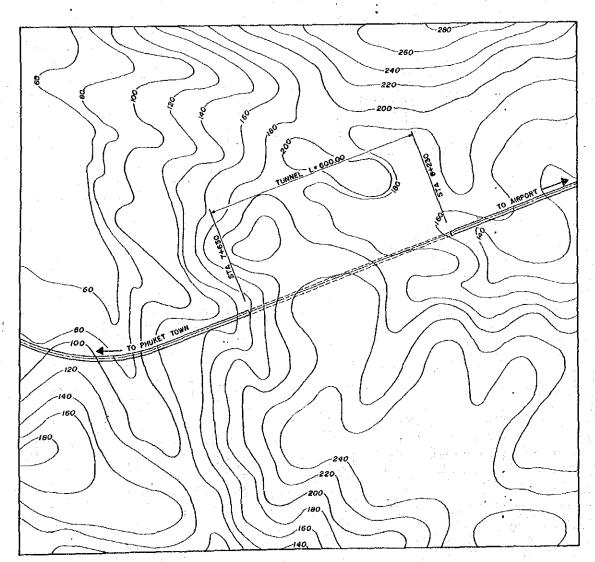






220 200 180 180

ELEVATION SCALE Hall 4,000 Val: 2,000

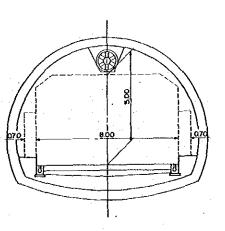


PLAN

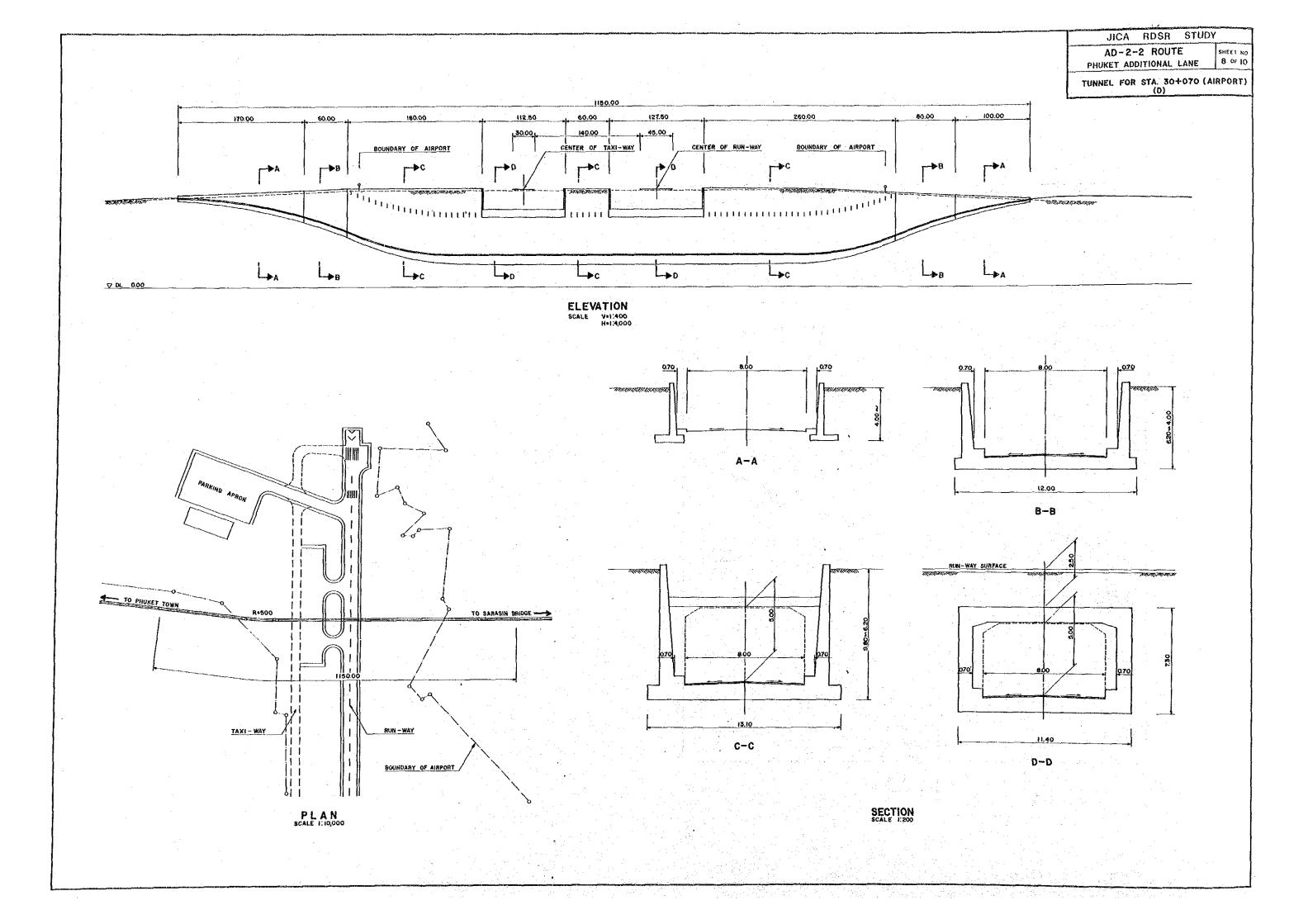
JICA RDSR STUDY

AD-2-2 ROUTE
PHUKET ADDITIONAL LANE

TUNNEL FOR STA 7+945



TUNNEL SECTION
SCALE 1: 200

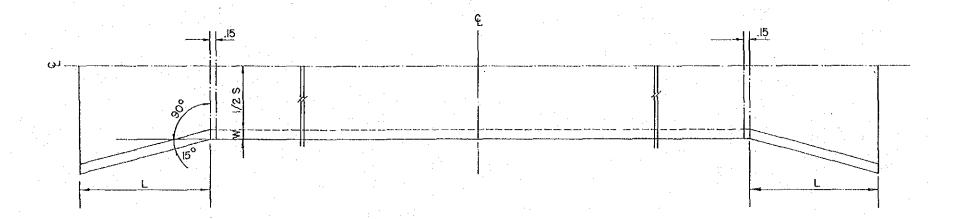


DAV	CHI	VERT
ロリス	L.UI	.vc.ri

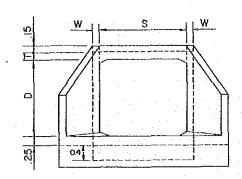
JICA RDSR STUDY

AD-2-2 ROUTE SHEET NO.
PHUKET ADDITIONAL LANE 9 OF 10

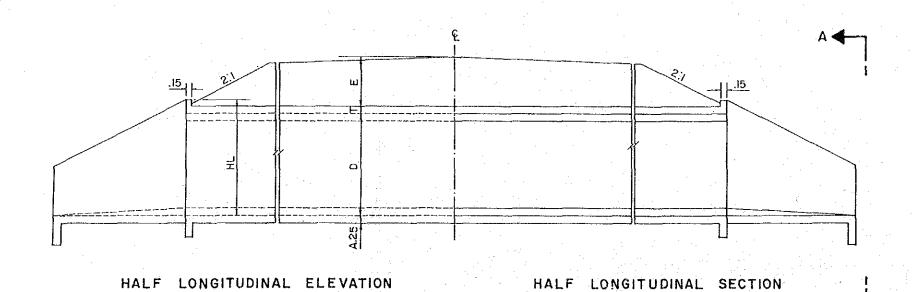
BOX CULVERT

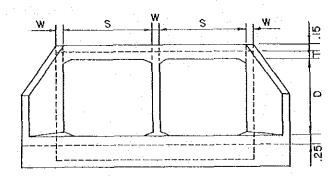


HALF LONGITUDINAL PLAN



SINGLE TYPE





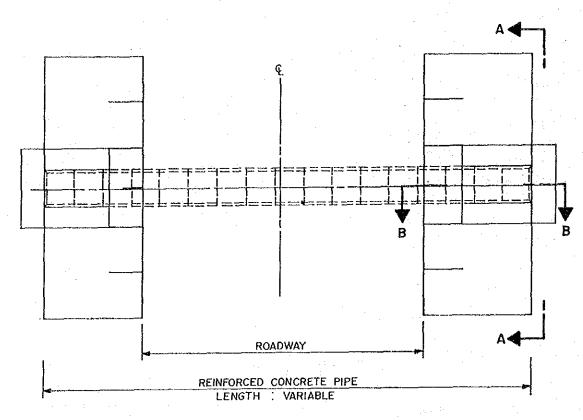
DOUBLE TYPE

SECTION A-A

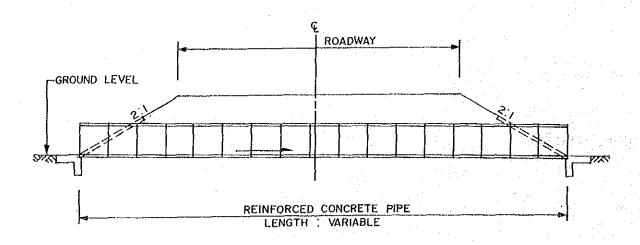
JICA RDSR STUDY

AD-2-2 ROUTE SHEET NO. PHUKET ADDITIONAL LANE TO DE TO

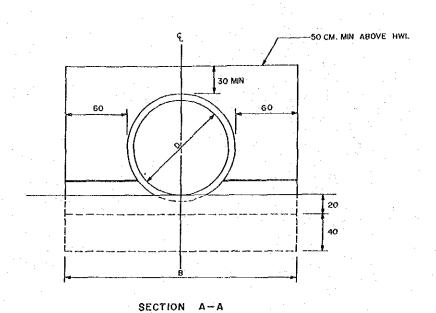
PIPE CULVERT



PLAN



PROFILE



SIDE SLOPE VARIES

CONCRETE SLAB

SECTION B-B

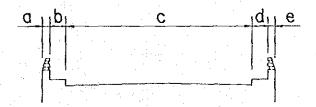
List of Bridge

LIST OF BRIDGES (AD-2-2:S1)

(Fig.)	Remarks	Span and Length (m)	Width (a+b+c+d+e:m)	Structural System	Materials	Station
(A)	New construction	5*10.0=50.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	1+780
(A)	New construction	1*10.0=10.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	2+600
(B)	New construction	5*10.0=50.0	0.3+0.7+12.0+0.7+0.3=14.0	RF	RC	5+300
(B)	New construction	5*10.0=50.0	0.3+0.7+12.0+0.7+0.3=14.0	ŔF	RC	6+300
(B)	New construction	5*10.0=50.0	0.3+0.7+12.0+0.7+0.3=14.0	RF	RC	6+520
(B)	New construction	5*10.0=50.0	0.3+0.7+12.0+0.7+0.3=14.0	RF	RC	6+720
(B)	New construction	5*10.0=50.0	0.3+0.7+12.0+0.7+0.3=14.0	RF	RC	7+000
(B)	New construction	5*10.0=50.0	0.3+0.7+12.0+0.7+0.3=14.0	RF	RC	7+280
(A)	New construction	1*10.0=10.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	9+800
(A)	New construction	3*10.0=30.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	10+600
(A)	New construction	3*7.0=21.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	11+200
(A)	New construction	1*10.0=10.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	12+420
(A)	New construction	1*10.0=10.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	14+900
(A)	New construction	3*8.0=24.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	15+200
(A)	New construction	5*10.0=50.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	18+250
(A)	New construction	1*10.0=10.0	0.3+0.7+12.0+0.7+0.3=14.0	SP.SL	RC	28+250

Note: (1) Materials

RC: Reinforced Concrete Bridge
(2) Structural System
SP.SL: Simply Supported Slab
RF : Continuously Supported Rigid Frame



LIST OF TUNNELS (AD-2-2:S1)

Station	Section		- · · · · · ·		Width (m)	Length (m)	Remarks	(Fig.)
7+945	Horseshoe Shaped Sec	etion			0.7+8.0+0.7=9.4	600.0	New construction Mountain Tunnel	(C)
30+070 Airport	Box Shaped Tunnel U-shaped Retaining W U-shaped Retaining W Retaining Wall		Strut	Reinforced	0.7+8.0+0.7=9.4	1,150.0 (240.0) (500.0) (140.0) (270.0)	New construction Pipe Roof Method Open Cut Method	(D)

LIST OF BOX AND PIPE CULVERT

	CULVERT	CULVERT	SIZE (m)	NO. of	CU	LVERT LENG	TH (m)
STATION	TYPE	PIPE	вох	LOCATIONS		EXTENDED	NEW
		NO. of ROW x	NO. of CELLS (CLEAR SPAN	LUCATIONS	EXISTING	CONST- RUCTION	CONST- RUCTION
			x DEPTH)				NOOTION
0+100	Pipe	1x⊙0.40		1	13.0	3.0	
0+775	Pipe	1x⊙0.60	٠.	1	13.0	3.0	
1+054	Pipe	1x⊙0.80		3	13.0	3.0	
1+400-2+200	Pipe	1x⊙1.00		2		į	25.0
	Pipe	1x⊙0.60		2			25.0
2+200-2+850	Pipe	1x⊙0.60		4			20.0
2+850-4+000	Pipe	1x⊙1.00	·	3			20.0
2+900	Вох		1(1.80x1.80)	- 1		• .	16.0
3+300	Вох		1(1.80x1.80)	1			13.0
3+700	Вох		1(1.80x1.80)	1			13.0
4+000-6+400	Pipe	1x⊙1.00		5			48.0
	Pipe	1x⊙0.60		5			48.0
4+600	Вох		1(1.80x1.80)	.1			12.0
5+000	Box		1(1.80x1.80)	1			23.0
6+400-6+700	Pipe	1x⊙1.00	* 5	1	ļ		44.0
1	Pipe	1x⊙0.60	٠.	1			44.0
6+700-6+900	Pipe	1x⊙0.60		1			58.0
6+900-7+100	Pipe	1x⊙1.00		. 1			50.0
	Pipe	1x⊙0.60		1			50.0
7+100-7+300	Pipe	1x⊙1.00	ļ ·	1		•	50.0
	Pipe	1x⊙0.60		1			50.0
7+300-7+800	Pipe	1x⊙0.80		1			32.0
	Pipe	1x⊙0.60		2	.]	ļ	32.0
8+900-9+150	Pipe	1x⊙1.00		1		. [50.0
	Pipe	1x⊙0.60		1			50.0
9+150-9+400	Pipe	1x⊙0.60		1	· ·		32.0
9+400	Box		1(1.80x1.80)	1			16.0
9+400-10+100	Pipe	1x⊙1.00		1			20.0
10.100 11.000	Pipe	1x00.60		3		9	20.0
10+100-11+000	Pipe	1x⊙0.60	1/1 00 1 00	5			24.0
11+400	Вох	1 00 00	1(1.80x1.00)	1			22.0
11+850-12+550	Pipe	1x⊙0.60		3			16.0
13+575	Pipe	1x00.40		2	11.0	3.0	
14+075	Pipe.	1xO0.40		1	12.0	3.0	
14+235	Pipe	1xO0.60		1	12.0	3.0	
14+528	Pipe	1x⊙0.40		3 2	12.0	3.0	
14+530	Pipe	1x⊙1.00	1/2 10-0 10\		11.0	3.0	
14+977	Box	100.00	1(2.10x2.10)	2	11.0	3.0	
14+990	Pipe	1x⊙0.60	1/1 00-1 00	1	11.0	3.0	19.0
15+800	Вох	f	1(1.80x1.80)	1			13.0

	CULVERT	CULVERT	SIZE (m)	NO. of	CU	LVERT LENG	TH (m)
STATION		PIPE	вох			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	TYPE	NO. of ROW x DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)	LOCATIONS	EXISTING	EXTENDED CONST- RUCTION	NEW CONST- RUCTION
15+964 16+127 16+127-17+100 16+400	Pipe Pipe Pipe Pipe Box	1x⊙0.60 1x⊙0.60 1x⊙1.00 1x⊙0.60	1(1.80x1.80)	1 1 3 5	12.0 12.0	3.0 3.0	19.0 19.0 13.0
17+100-19+000 17+600 19+000-19+400	Pipe Pipe Box Pipe	1x⊙1.00 1x⊙0.60 1x⊙0.60	1(1.80x1.80)	3 6 1 1			19.0 19.0 14.0 20.0
19+200 19+400-20+200 20+200-21+600	Box Pipe Pipe Pipe Pipe	1x⊙1.50 1x⊙1.00 1x⊙1.00 1x⊙0.60	1(1.80x1.80)	1 2 2 2 2			13.0 20.0 20.0 26.0 26.0
20+600 21+600-22+000 21+850 22+000-22+400	Box Pipe Box Pipe	1x⊙0.60 1x⊙0.60	2(2.10x2.10) 1(1.80x1.80)	1 1 1 1			22.0 18.0 26.0 22.0
22+400 22+400-23+000 22+700 23+000-23+400	Box Pipe Box Pipe Pipe	1x⊙0.60 1x⊙1.20 1x⊙0.60	1(1.80x1.80) 1(1.00x1.80)	1 2 1 1			16.0 48.0 32.0 16.0
23+400-23+950 24+104 24+324 24+375	Pipe Pipe Pipe Pipe	1x 00.60 1x 00.80 1x 00.60 1x 01.00		2 1 1 1	13.0 13.0 9.0	3.0 3.0 3.0	16.0
25+010 25+696 25+706 25+939	Pipe Pipe Pipe Pipe	1x⊙0.60 1x⊙0.60 1x⊙1.00 1x⊙0.60		1 2 2 1	10.0 8.0 8.0 8.0	3.0 3.0 3.0 3.0	
25+991 26+353 26+798 26+800	Pipe Pipe Pipe Pipe	1x 00.80 1x 00.60 1x 00.60 1x 00.80		1 1 2 2	11.0 8.0 10.0 10.0	3.0 3.0 3.0 3.0	
26+878 26+880 27+286 27+331 27+501	Pipe Pipe Pipe Pipe Pipe	1x 00.60 1x 01.60 1x 00.60 1x 00.60 1x 00.60		1 1 1 1	10.0 10.0 12.0 8.0 8.0	3.0 3.0 3.0 3.0 3.0	

LIST OF BOX AND PIPE CULVERT

	CULVERT	CULVERT	SIZE (m)	NO. of	CU	LVERT LENG	TH (m)
STATION		PIPE	вох	TOGAMIONG		DVMINIDDO	NEW
	TYPE	NO. of ROW x DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)	LOCATIONS	EXISTING	EXTENDED CONST- RUCTION	CONST- RUCTION
27+626	Pipe	1x⊙1.00		1	10.0	3.0	
27+909	Pipe	1x⊙0,60		1	8.0	3.0	
28+557	Pipe	1x⊙1.00		6	15.0	3.0	
29+183	Pipe	1xO0.60		1 .	11.0	3.0	i i
29+600-30+400	Pipe	1x⊙1.00		7			15.0
30+400-31+350	Pipe	1x⊙1.00		2			15.0
	Pipe	1x⊙0.80		2			15.0
·	Pipe	1x⊙0.60	**	2			15.0
30+900	Box		1(1.80x1.80)	1			13.0
31+350-35+250	Pipe	1x⊙0.60	911 3	16			15.0
31+700	Box	'.	1(1.80x1.80)	. 1			13.0
32+700	Box		1(1.80x1.80)	1			13.0
33+700	Box		1(1.80x1.80)	1			13.0
34+700	Box		1(1.80x1.80)	1		44.04	16.0