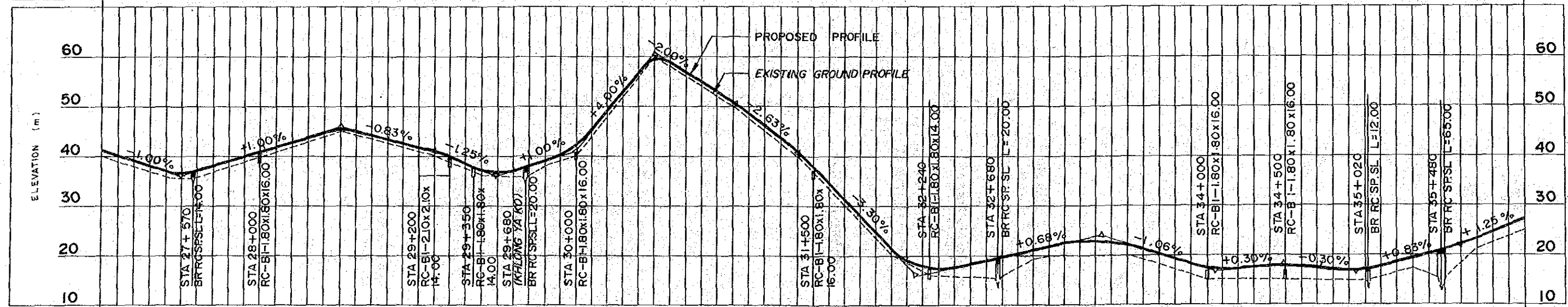


TERRAIN	FLAT
PAVEM'T	AC PAVEMENT
FLOODING	—
RIGHT OF WAY (m)	25.00



CURVA-TURE BAND	Existing Alignment										
	Proposed Alignment	R = ∞	R = ∞	L = 300 R = 500	L = 1,300 R = 5,000	L = 850 R = 1,000	L = 1,150 R = 1,000	L = 550 R = 2,000	L = 1,750 R = 2,000	R = ∞	L = 1,500 R = 2,000
STATION (Km)		27+000	28+000	29+000	30+000	31+000	32+000	33+000	34+000	35+000	36+000

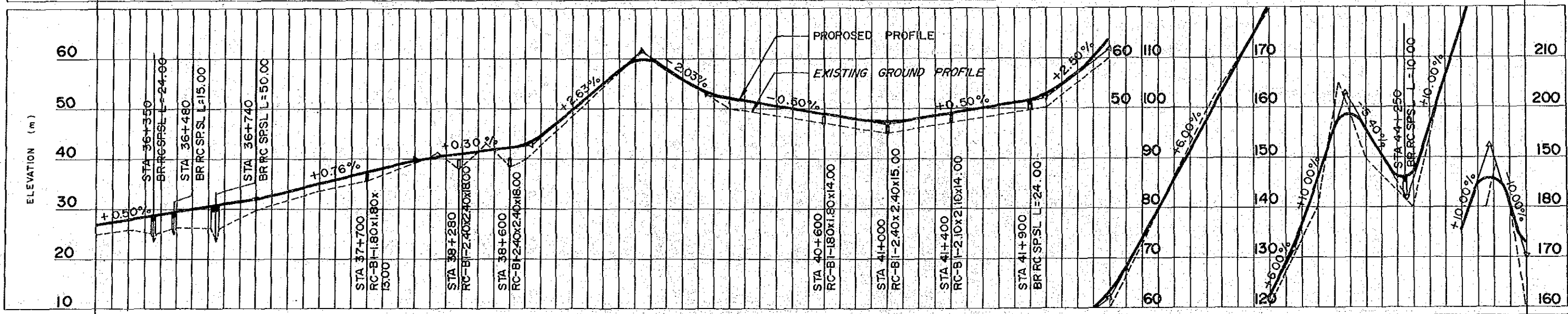


TERRAIN	FLAT	MOUNTAINOUS
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PAVEM'T	Type	AC PAVEMENT
	Existing Condition	-

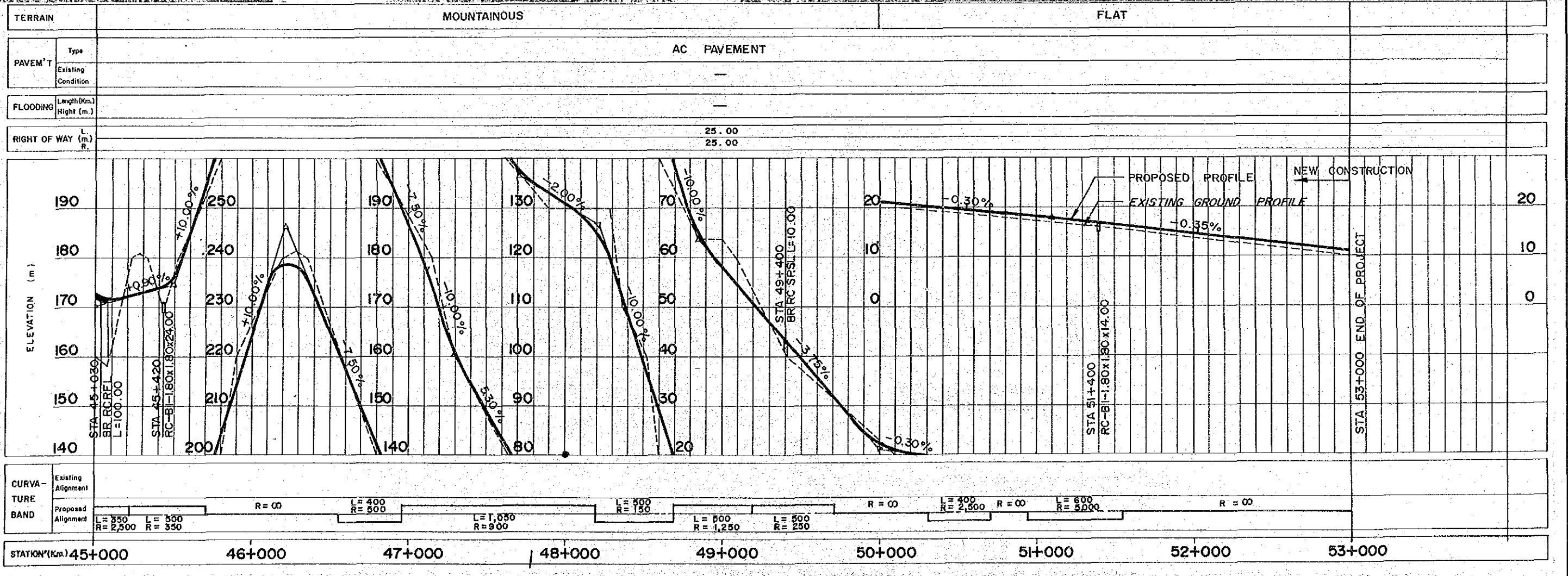
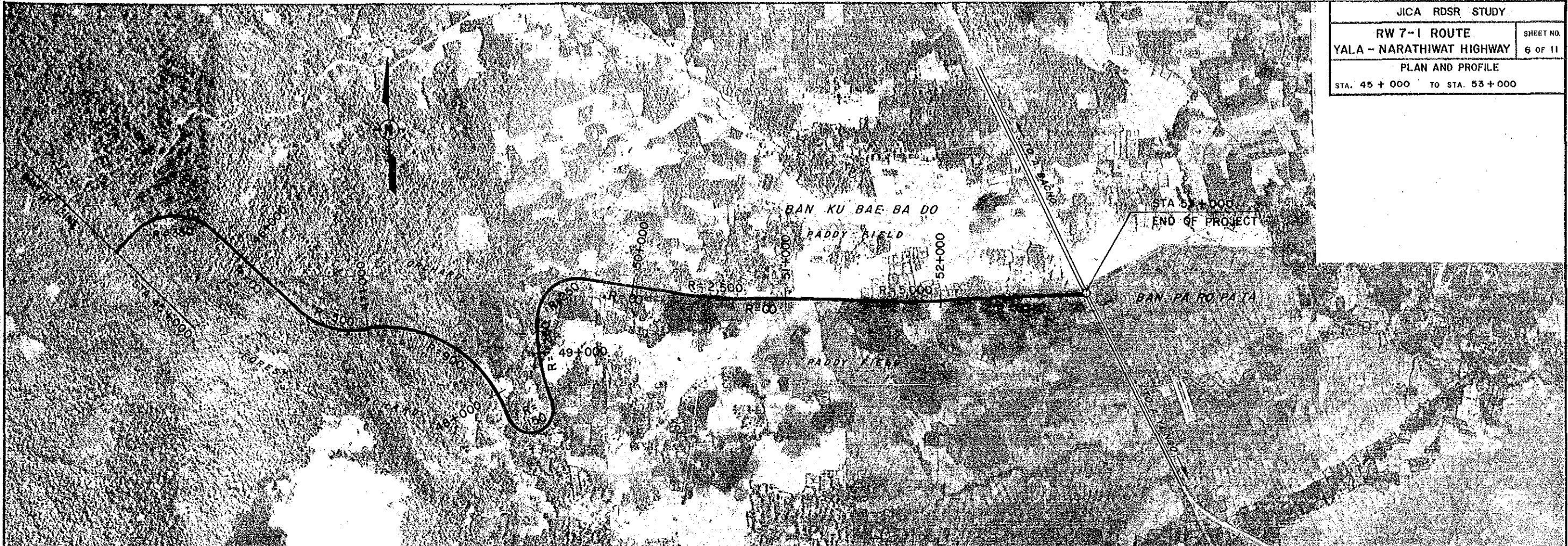
FLOODING	Length (Km.)	-
	Height (m.)	-

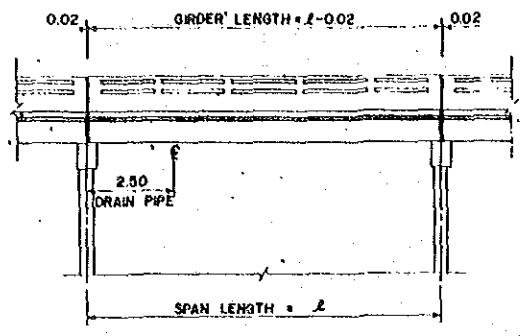
RIGHT OF WAY	L (m.)	25.00
	R (m.)	25.00



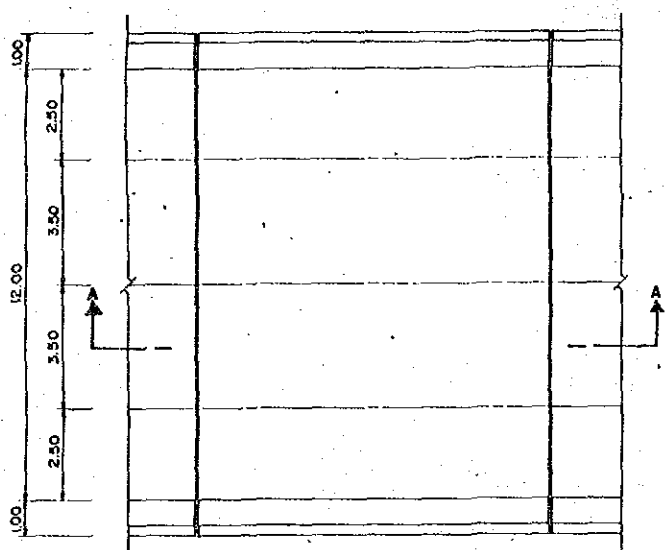
CURVA-BAND	Existing Alignment									
	Proposed Alignment	<table border="1"> <tr> <td>L=1,500 R=2,000</td> <td>R=∞</td> <td>L=800 R=2,000</td> <td>R=∞</td> <td>L=600 R=1,000</td> <td>L=1,150 R=1,500</td> <td>L=950 R=2,000</td> <td>L=1,200 R=450</td> <td>L=200 R=250</td> </tr> </table>	L=1,500 R=2,000	R=∞	L=800 R=2,000	R=∞	L=600 R=1,000	L=1,150 R=1,500	L=950 R=2,000	L=1,200 R=450
L=1,500 R=2,000	R=∞	L=800 R=2,000	R=∞	L=600 R=1,000	L=1,150 R=1,500	L=950 R=2,000	L=1,200 R=450	L=200 R=250		

STATION (Km.)	36+000	37+000	38+000	39+000	40+000	41+000	42+000	43+000	44+000	45+000
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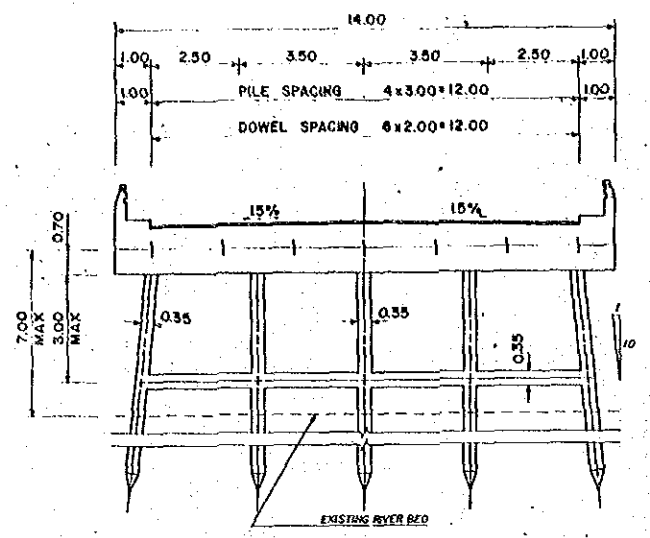
SECTION A-A  
SCALE 1:200



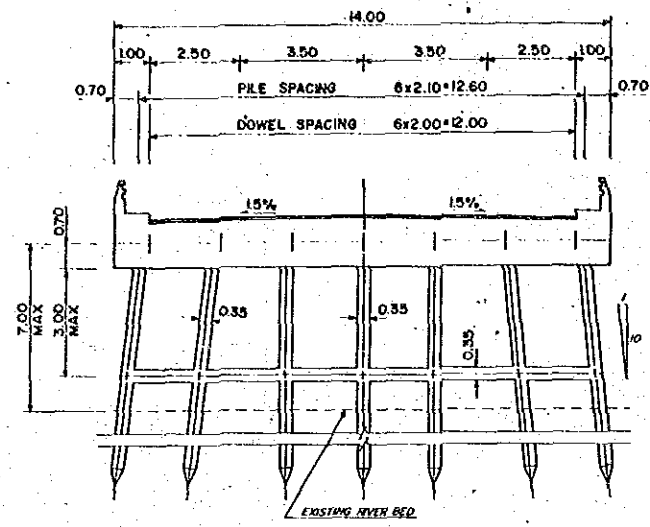
PLAN  
SCALE 1:200

LIST OF BRIDGES

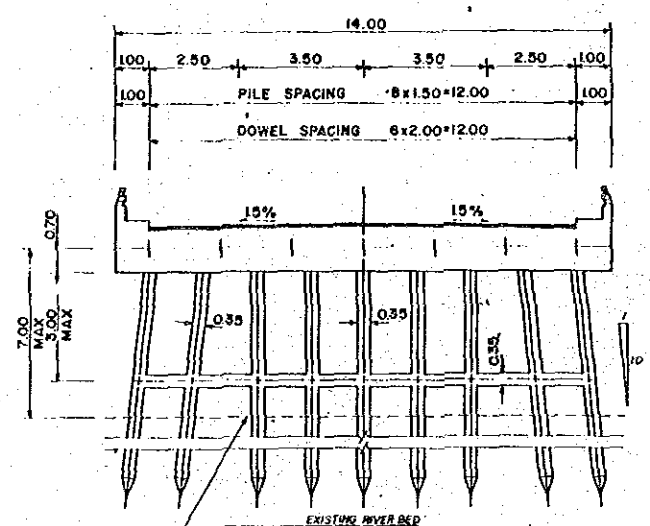
STATION	SPAN AND LENGTH (m)
2+725	3 x 8.00 = 18.00
10+600	1 x 8.00 = 8.00
27+570	2 x 7.00 = 14.00
29+690	6.00+8.00+6.00 = 20.00
35+480	7.50+5x10.00+7.50 = 65.00
36+350	3 x 8.00 = 24.00
36+480	3 x 5.00 = 15.00
36+740	5 x 10.00 = 50.00
41+900	3 x 8.00 = 24.00
44+000	1 x 10.00 = 10.00
44+250	1 x 10.00 = 10.00
49+400	1 x 10.00 = 10.00



FOR 5.00-6.00M SPAN

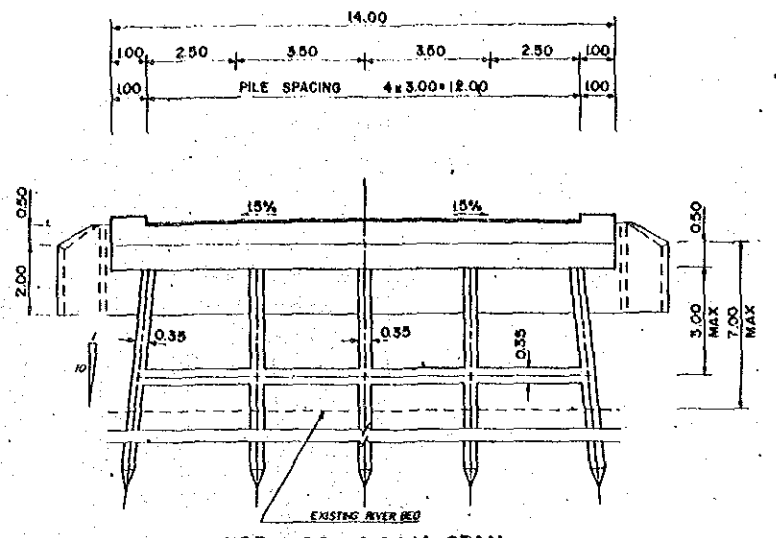


FOR 7.00-8.00M SPAN

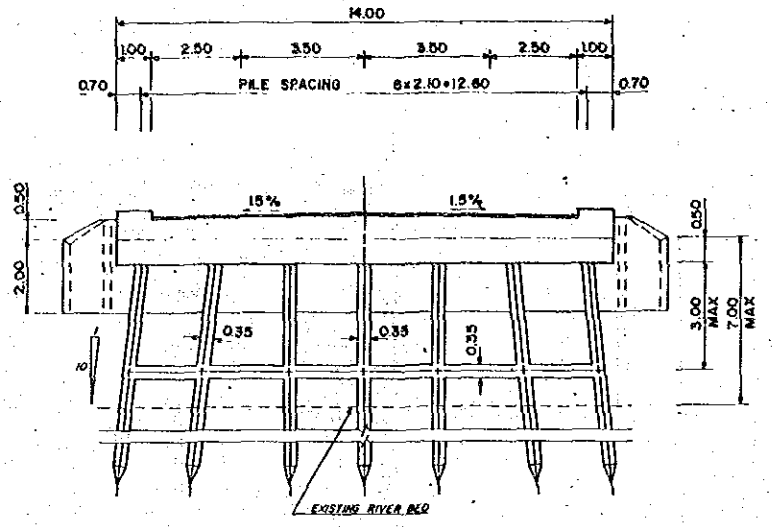


FOR 9.00-10.00M SPAN

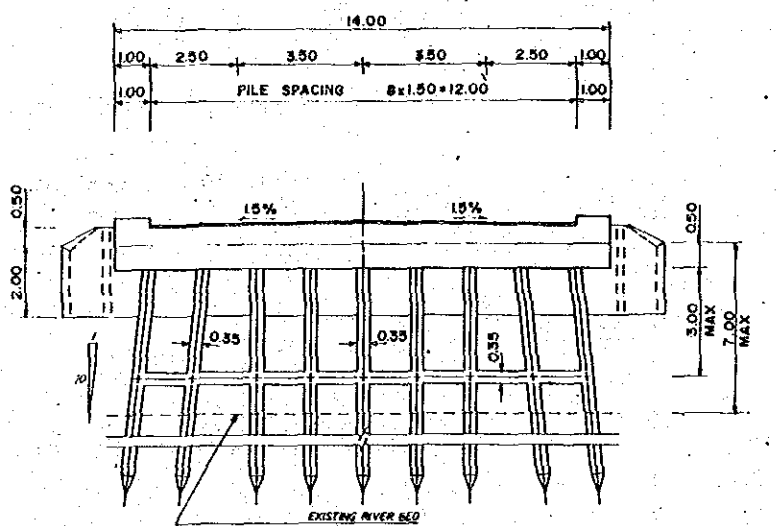
PILE BENT ELEVATION  
SCALE 1:200



FOR 5.00-6.00M SPAN

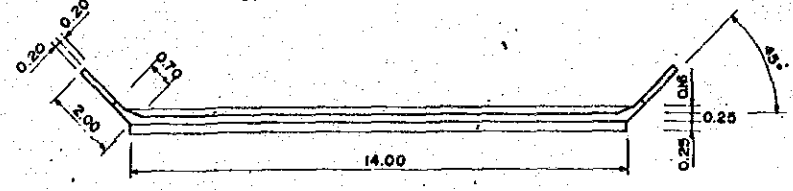


FOR 7.00-8.00M SPAN



FOR 9.00-10.00M SPAN

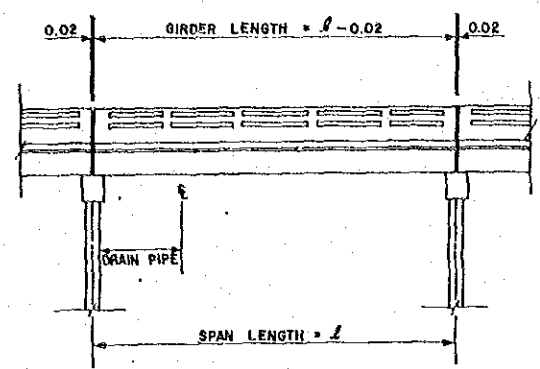
ABUTMENT ELEVATION  
SCALE 1:200



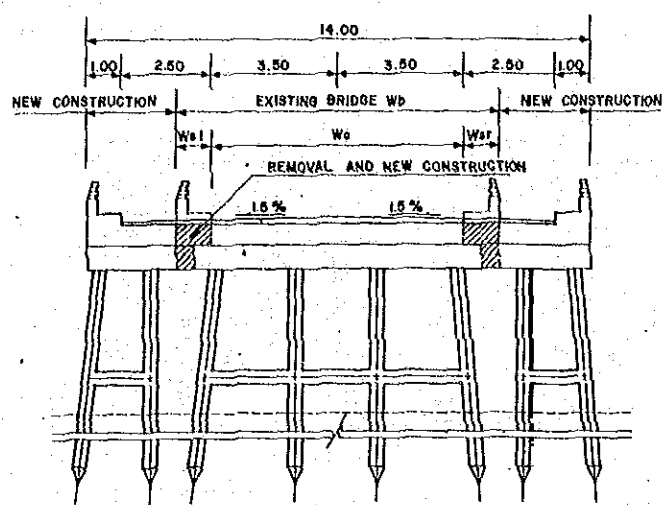
PLAN  
SCALE 1:200

NOTES:

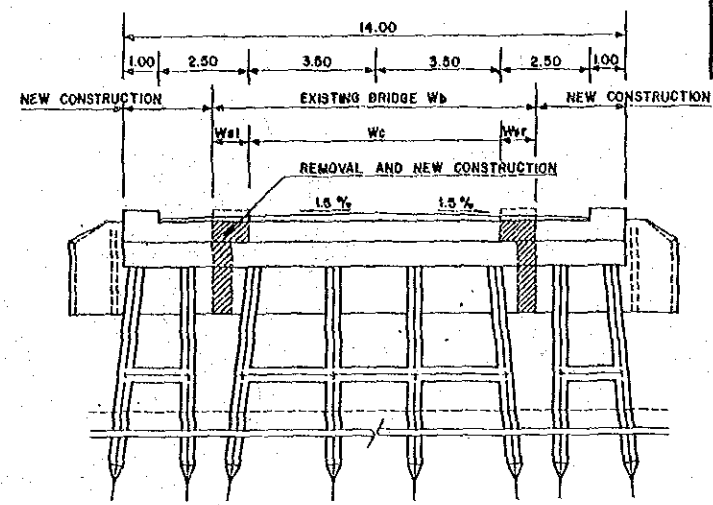
- DESIGN STRESSES:  
 a) CONCRETE,  $f_{ck}$  = 70 KSC.  
 b) STEEL,  $f_{yk}$  = 1,400 KSC. (INTERMEDIATE GRADE)  
 $f_{tk}$  = 1,200 KSC. (STRUCTURAL GRADE)
- CONCRETE SHALL HAVE MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 210 KG/CM<sup>2</sup> FOR .15 X .15 X .15 CUBE AT 28 DAYS. AND APPROXIMATE MIX DESIGN PER CUBIC METER IS SUGGESTED AS FOLLOWS:  
 PORTLAND CEMENT, MIN. 350 KG.  
 SAND 0.43 M<sup>3</sup>  
 CRUSHED ROCK OR GRAVEL 0.86 M<sup>3</sup>  
 CONCRETE SLUMP, MAX 10 CM.
- CLEAR CONCRETE COVER FOR TOP REINFORCEMENT IN SLAB BRIDGE SHALL BE 3.5 CM. ELSEWHERE OF SLAB BRIDGE AND SIDEWALK SHALL BE 2.5 CM.
- ALL CONCRETE EXPOSED CORNERS SHALL HAVE 2 CM. CHAMFER UNLESS OTHERWISE INDICATED.
- REBARS #4 OR LARGER SHALL BE INTERMEDIATE GRADE DEFORMED BARS, OTHERS SHALL BE STRUCTURAL GRADE PLAIN BARS UNLESS OTHERWISE INDICATED.
- LOCATIONS OF LAP SPLICE OF REBARS SHALL BE APPROVED BY THE ENGINEER.
- LAP LENGTH SHALL NOT BE LESS THAN 40 DIAMETERS OF BIGGER BAR IN CASE OF PLAIN BARS AND 24 DIAMETERS OF BIGGER BAR FOR DEFORMED BARS.
- IN CASE OF SALINE PROTECTION, HIGH SULPHATE RESISTANT PORTLAND CEMENT TYPE 5 CONFORMED TO JASDIO SPECIFICATIONS SHALL BE USED AND ADDITIONAL CONCRETE COVER OF 2.5 CM. FROM NORMAL CASE ALL AROUND SHALL BE PROVIDED WITHOUT ALTERING THE LOCATIONS OF REBARS.
- ALL MATERIALS SHALL BE USED UNDER THE APPROVAL OF THE ENGINEER.
- PAINTING SHALL BE PROVIDED ON ALL SURFACES AT BRIDGE ENDS WHICH EXPOSED TO TRAFFIC. WHITE AND BLACK COLOUR SHALL BE PAINTED ALTERNATELY. WHITE COLOUR SHALL BE LIGHT REFLECTED TYPE.
- ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE INDICATED.
- BAR MARK S101 MAY BE TAKEN OUT ONE BAR ON EACH SIDE OF THE BRIDGE WHEREVER THEY PASS THROUGH DRAIN PIPES. IF THE LOCATIONS OF THESE BARS ARE NEAR V-DROP SUCH THAT CONCRETE COVER IS NOT ADEQUATE, THEY SHALL BE PLACED ON TOP OF S101. OTHER BARS WHICH PASS THROUGH DRAIN PIPES SHALL BE BENT ALONG THE PIPES.
- ALL PIERS WHICH DO NOT HAVE LOG PROTECTION WALLS SHALL BE RAUNCHED UNDER THE TOP CROSS BRACING.
- IF ANY NOTES ON THE DRAWINGS OF PIERS CONTRADICT THE NOTES ON THIS DRAWING, THEY WILL BE SUPERSEDED BY THESE NOTES.
- THIS DRAWING IS ADAPTED FROM JOSH DWG NO. J AD5-106-14/1A IN CASE OF ANY DISCREPANCY BETWEEN SUCH DRAWINGS ARISES, THE JOSH STANDARD DRAWING WILL PREVAIL UNDER THE APPROVAL OF THE ENGINEER.



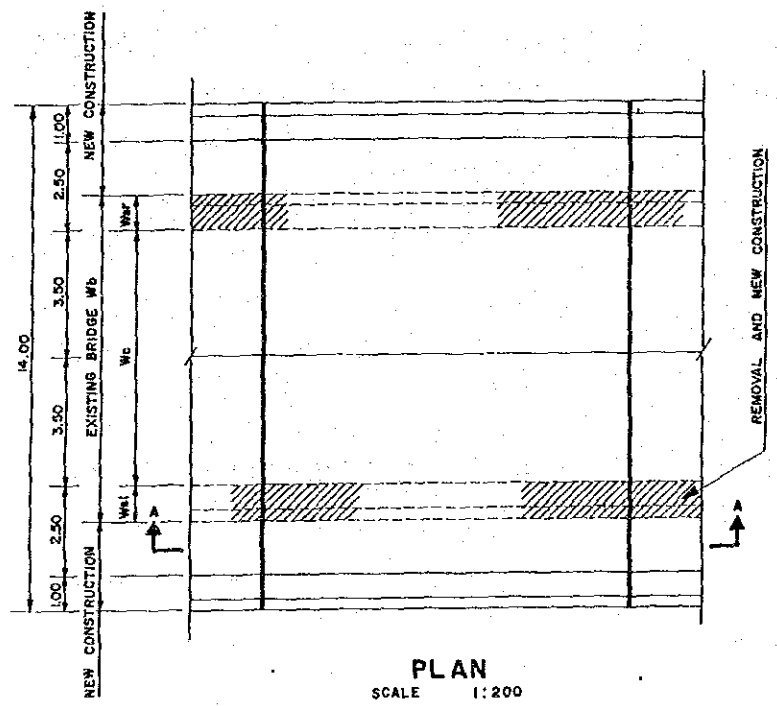
SECTION A-A  
 SCALE 1:200



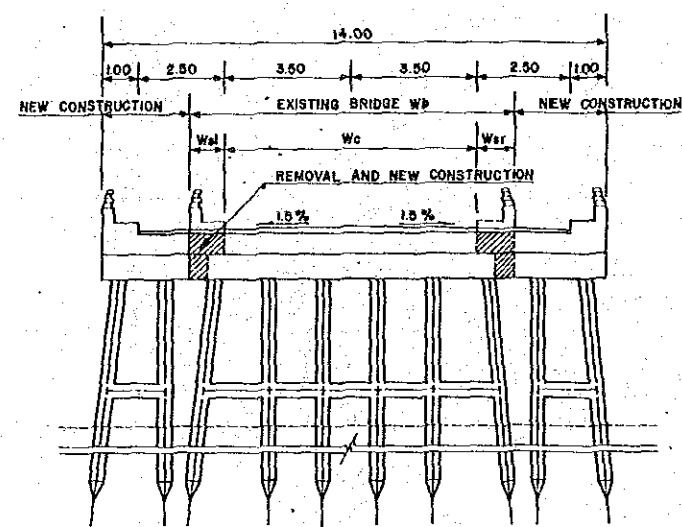
FOR 5.00 - 8.00 M. SPAN



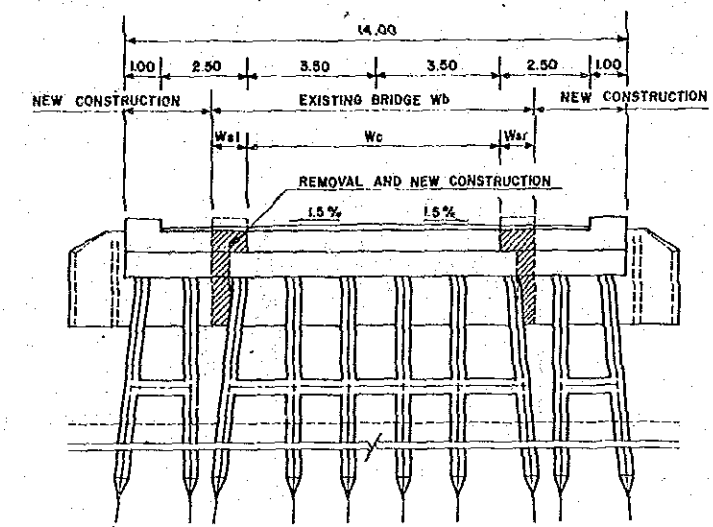
FOR 5.00 - 8.00 M. SPAN



PLAN  
 SCALE 1:200



FOR 9.00 - 12.00 M. SPAN



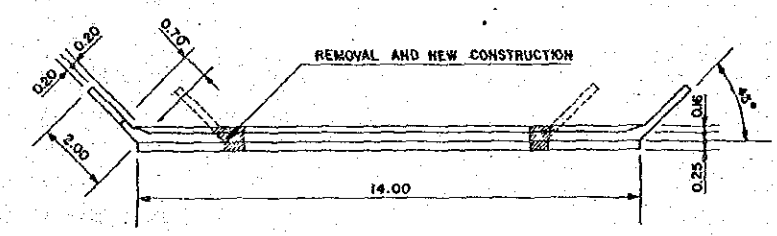
FOR 9.00 - 12.00 M. SPAN

PILE BENT ELEVATION  
 SCALE 1:200

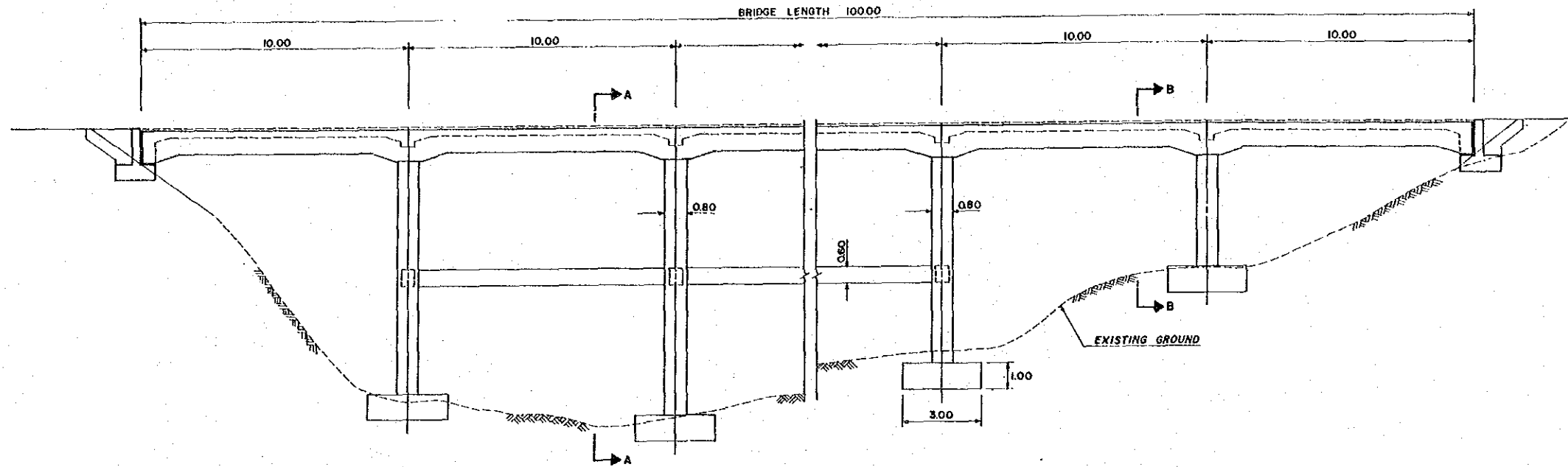
ABUTMENT ELEVATION  
 SCALE 1:200

LIST OF BRIDGES

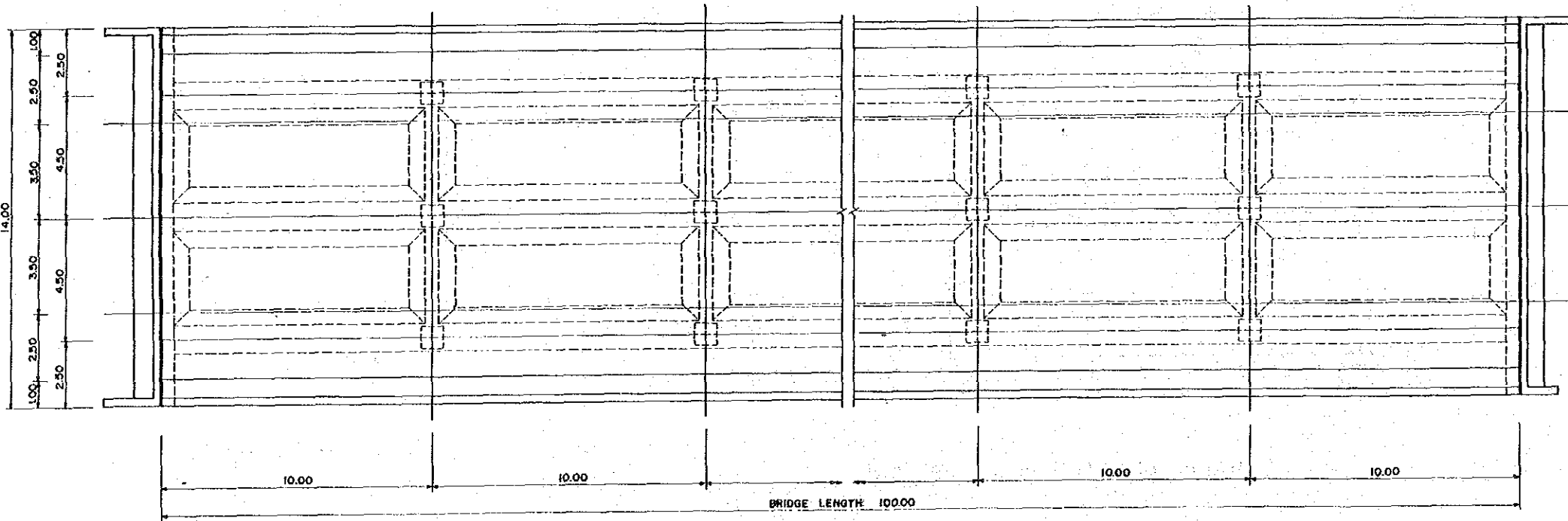
STATION	WIDTH (Wsl+Wc+Wsr+Wb m)	SPAN AND LENGTH (m)
11+554	1.30+7.00+1.30 = 9.60	3x 6.00 = 18.00
11+662	1.30+7.00+1.30 = 9.60	3x 7.00 = 21.00
16+191	1.30+7.00+1.30 = 9.60	3x 5.00 = 15.00
25+850	0.90+7.50+0.90 = 9.30	3x 6.00 = 18.00
32+680	0.50+7.00+0.50 = 8.00	6.00+8.00+8.00 = 20.00
35+020	0.50+7.00+0.50 = 8.00	1x12.00 = 12.00



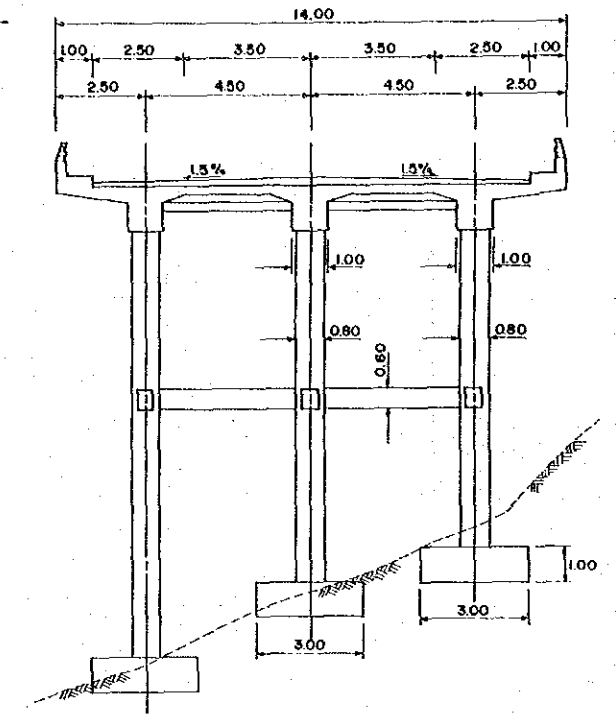
ABUTMENT PLAN  
 SCALE 1:200



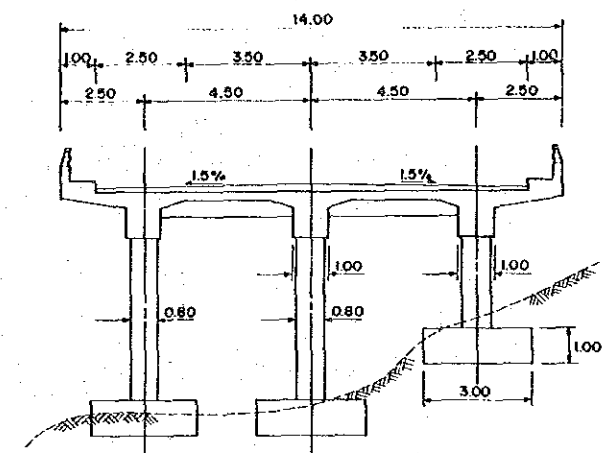
**ELEVATION**  
SCALE 1:200



**PLAN**  
SCALE 1:200



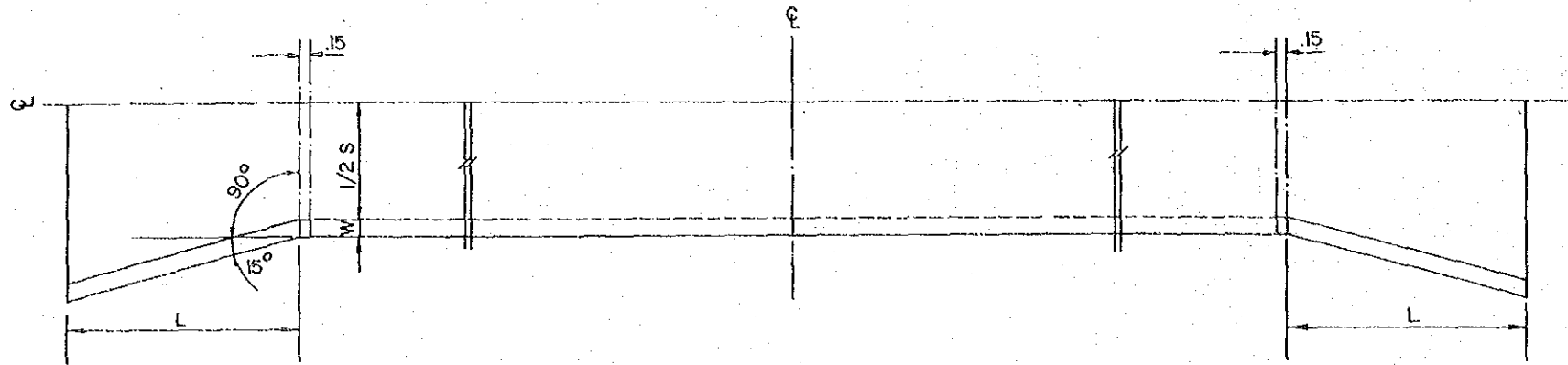
**A-A**



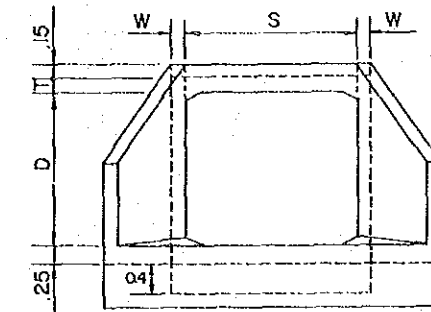
**B-B**  
**SECTION**  
SCALE 1:200

# BOX CULVERT

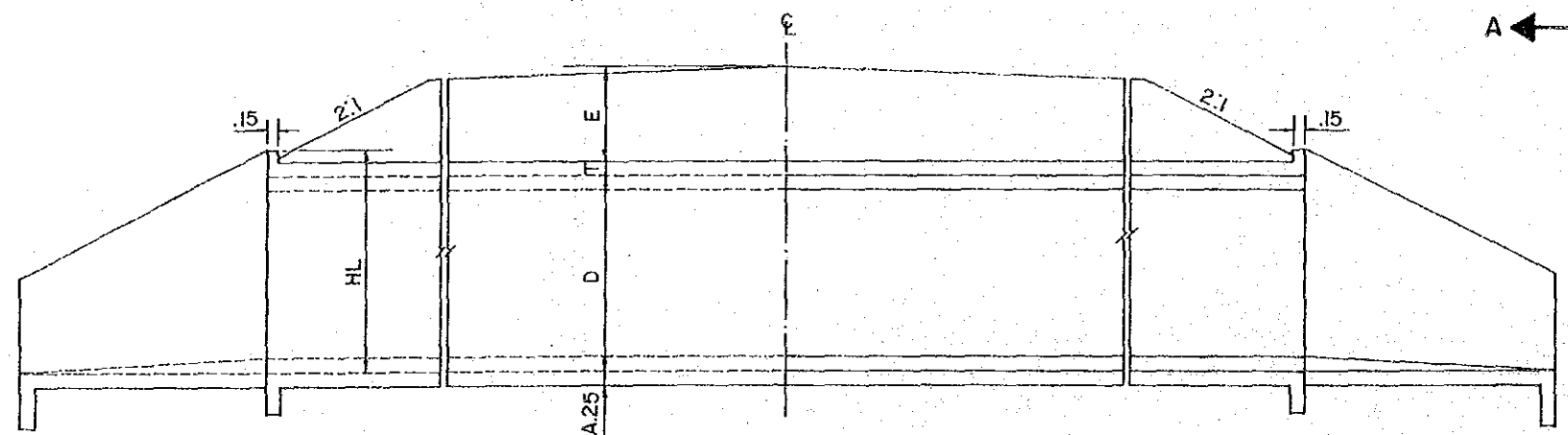
JICA RDSR STUDY	
RW7-1 ROUTE YALA - NARATHIWAT HIGHWAY	SHEET NO. 10 OF 11
BOX CULVERT	



HALF LONGITUDINAL PLAN

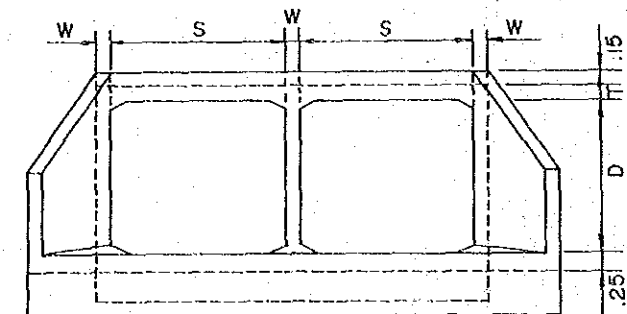


SINGLE TYPE



HALF LONGITUDINAL ELEVATION

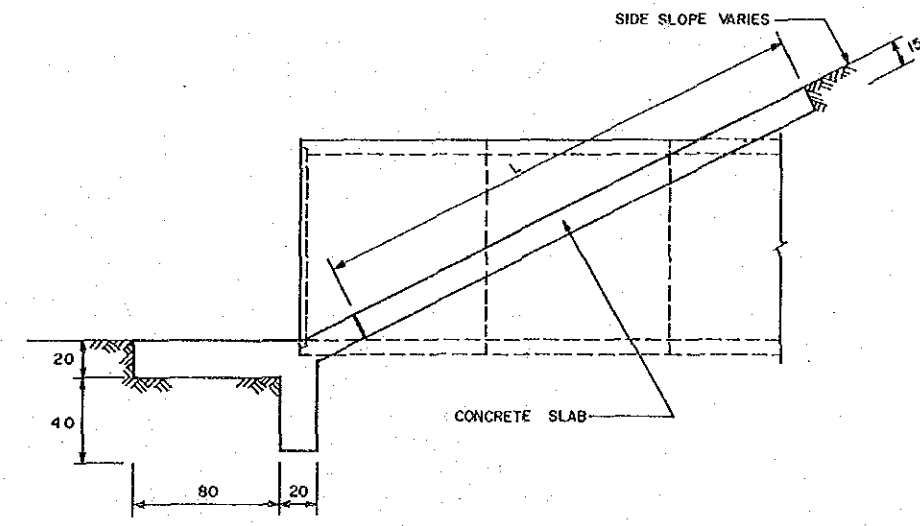
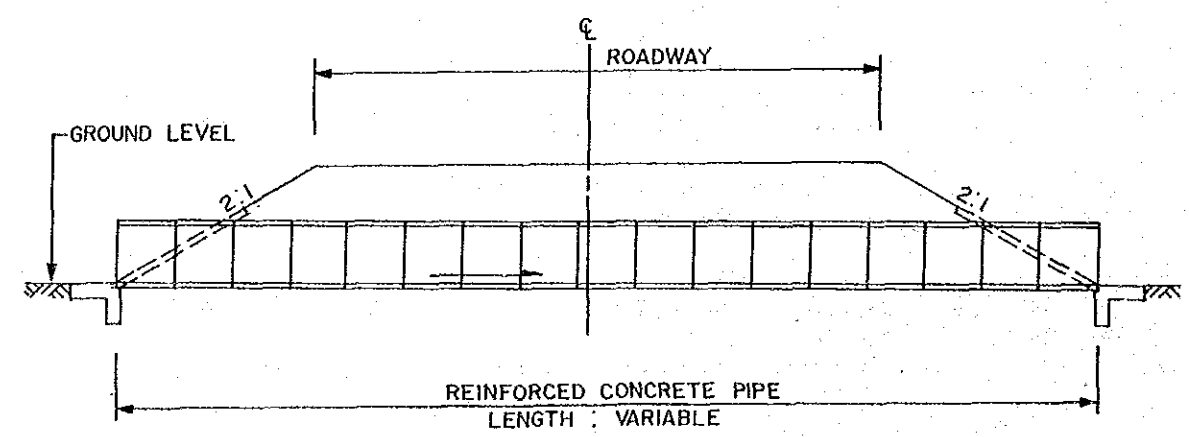
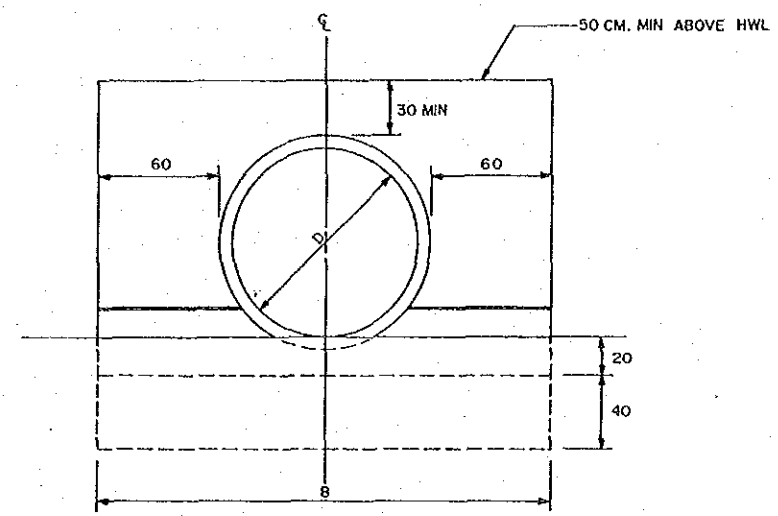
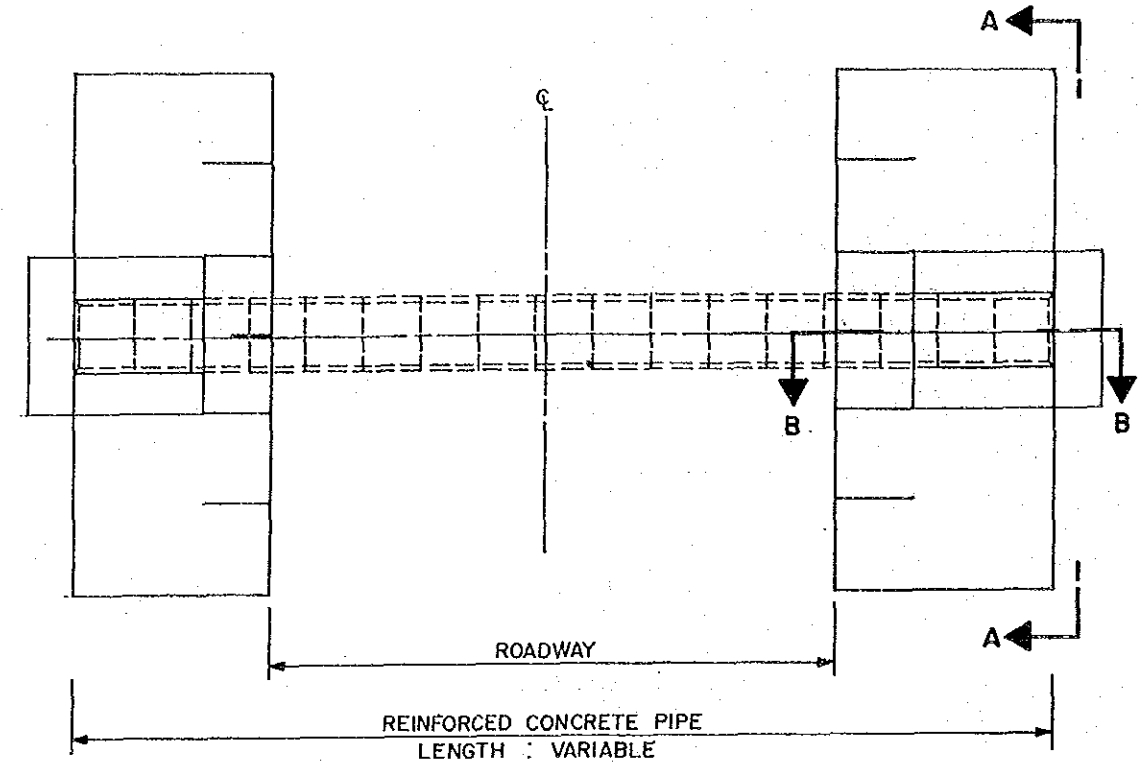
HALF LONGITUDINAL SECTION



DOUBLE TYPE

SECTION A-A

# PIPE CULVERT





List of Bridge

LIST OF BRIDGES (RW7-1:F1) (1/2)

Station	Materials	Structural System	Width (a+b+c+d+e:m)	Span and Length (m)	Remarks	(Fig.)
2+729	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0 (0.3+1.0+8.0+1.0+0.3=10.6)	3*6.0=18.0 (3*6.0=18.0)	New construction Removal by re-embankment	(A)
10+600	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	1*8.0=8.0	New construction (New link)	(A)
11+554	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0 (0.3+1.0+7.0+1.0+0.3=9.6)	3*6.0=18.0	Widened to 12.0 m	(B)
11+862	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0 (0.3+1.0+7.0+1.0+0.3=9.6)	3*7.0=21.0	Widened to 12.0 m	(B)
16+191	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0 (0.3+1.0+7.0+1.0+0.3=9.6)	3*5.0=15.0	Widened to 12.0 m	(B)
19+227	RC	SP.SL	0.5+0.0+9.0+0.0+0.5=10.0	5*8.0=40.0	Used as existed	
20+427 Sai Buri	PC/RC	RF.BX/SP.SL	0.3+1.2+9.0+1.2+0.3=12.0	4*10.0+6*30.0 +4*10.0=260.0	Used as existed	
21+295	RC	SP.SL	0.5+0.0+9.0+0.0+0.5=10.0	3*10.0=30.0	Used as existed	
22+939	RC	SP.SL	0.5+0.0+9.0+0.0+0.5=10.0	3*10.0=30.0	Used as existed	
23+492	RC	SP.SL	0.5+0.0+9.0+0.0+0.5=10.0	3*8.0=24.0	Used as existed	
25+850	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0 (0.2+0.7+7.5+0.7+0.2=9.3)	3*6.0=18.0	Widened to 12.0 m	(B)
27+570	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	2*7.0=14.0	New construction (New link)	(A)
29+680	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	6.0+8.0+6.0=20.0	New construction (New link)	(A)
32+680	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0 (0.5+0.0+7.0+0.0+0.5=8.0)	6.0+8.0+6.0=20.0	Widened to 12.0 m	(B)

LIST OF BRIDGES (RW7-1:F1) (2/2)

Station	Materials	Structural System	Width (a+b+c+d+e:m)	Span and Length (m)	Remarks	(Fig.)
29+680	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	6.0+8.0+6.0=20.0	New construction (New link)	(A)
32+680	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0 (0.5+0.0+7.0+0.0+0.5=8.0)	6.0+8.0+6.0=20.0	Widened to 12.0 m	(B)
35+020	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0 (0.5+0.0+7.0+0.0+0.5=8.0)	1*12.0=12.0	Widened to 12.0 m	(B)
35+480	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	7.5+5*10.0+7.5=65.0	New construction (New link)	(A)
36+350	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	3*8.0=24.0	New construction (New link)	(A)
36+480	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	3*5.0=15.0	New construction (New link)	(A)
36+740	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	5*10.0=50.0	New construction (New link)	(A)
41+900	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	3*8.0=24.0	New construction (New link)	(A)
44+000	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	1*10.0=10.0	New construction (New link)	(A)
44+250	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	1*10.0=10.0	New construction (New link)	(A)
45+030	RC	RF	0.3+0.7+12.0+0.7+0.3=14.0	10*10.0=100.0	New construction (New link)	(C)
49+400	RC	SP.SL	0.3+0.7+12.0+0.7+0.3=14.0	1*10.0=10.0	New construction (New link)	(A)

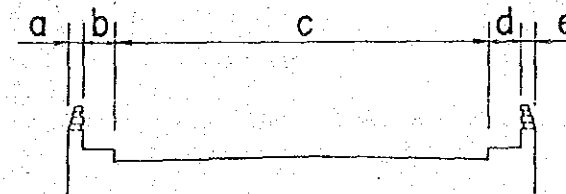
Note: (1) Materials

RC: Reinforced Concrete Bridge  
PC: Prestressed Concrete Bridge

(2) Structural System

SP.SL: Simply Supported Slab  
RF : Continuously Supported Rigid Frame  
RF.BX: Continuously Supported Box Girder

(3) Width and length in parentheses on lower column shows the existing conditions.



List of Culvert

LIST OF BOX AND PIPE CULVERT

STATION	CULVERT TYPE	CULVERT SIZE (m)		NO. of LOCATIONS	CULVERT LENGTH (m)		
		PIPE	BOX		EXISTING	EXTENDED CONST- RUCTION	NEW CONST- RUCTION
		NO. of ROW x DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)				
0+000-0+500	Pipe	1xØ1.00		1	16.0	8.0	
	Pipe	1xØ0.60		1	14.0	6.0	
	Pipe	2xØ0.60		1			20.0
0+500-0+900	Pipe	1xØ1.20		2			24.0
0+900-1+100	Pipe	1xØ1.00		1	16.0	10.0	
	Pipe	1xØ1.00		1			26.0
	Box		2(2.10x2.10)	1			26.0
1+100-1+600	Box		3(1.80x1.80)	1	11.0	11.0	
1+600-2+200	Pipe	1xØ0.60		1	14.0	10.0	
	Pipe	1xØ1.00		1	15.0	8.0	
	Pipe	1xØ0.60		1			24.0
2+200-3+550	Pipe	1xØ1.00		1	17.0	8.0	
	Pipe	1xØ0.60		1	14.0	12.0	
	Pipe	1xØ0.80		1	14.0	10.0	
	Pipe	1xØ1.00		1			25.0
	Pipe	1xØ0.60		1			26.0
3+550-4+600	Pipe	1xØ1.00		1	14.0	8.0	
	Pipe	1xØ0.80		1	14.0	8.0	
	Pipe	1xØ1.00		1	15.0	10.0	
	Pipe	1xØ1.00		1	15.0	14.0	
	Pipe	3xØ1.00		1			22.0
	Pipe	2xØ1.00		1			22.0
	Pipe	1xØ0.60		1	14.0	14.0	
	Pipe	1xØ0.80		1			22.0
	Box		2(2.40x2.40)	1			22.0
4+600-5+300	Pipe	1xØ0.80		1	15.0	12.0	
	Pipe	1xØ0.80		1			27.0
5+300-5+800	Box		2(2.40x2.40)	1			28.0
	Pipe	2xØ1.20		1			28.0
	Pipe	1xØ1.00		1	16.0	12.0	
	Pipe	1xØ1.00		1			28.0
5+800-6+900	Box		1(1.80x1.80)	1			23.0
	Pipe	1xØ0.60		1	15.0	8.0	
	Pipe	1xØ1.00		1	15.0	12.0	
	Pipe	1xØ0.60		1	15.0	12.0	
	Pipe	1xØ1.00		1	15.0	10.0	
	Pipe	1xØ0.60		1			23.0
6+900-8+500	Pipe	1xØ0.80		1	15.0	8.0	
	Pipe	1xØ0.80		1	12.0	8.0	
	Box		2(2.10x1.80)	1	11.0	10.8	

STATION	CULVERT TYPE	CULVERT SIZE (m)		NO. of LOCATIONS	CULVERT LENGTH (m)		
		PIPE	BOX		EXISTING	EXTENDED CONST- RUCTION	NEW CONST- RUCTION
		NO. of ROW x DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)				
8+500-11+200	Pipe	1xØ0.60		14			20.0
11+546	Pipe	1xØ1.00		1	16.0	4.0	
11+670	Pipe	1xØ1.00		1	16.0	4.0	
11+761	Pipe	1xØ1.00		1	16.0	4.0	
11+891	Pipe	1xØ0.80		1	16.0	4.0	
12+150	Box		2(2.10x2.10)	1	11.0	4.0	
13+514	Pipe	1xØ0.60		1	14.0	4.0	
13+852	Pipe	2xØ0.80		1	14.0	4.0	
14+141	Pipe	1xØ0.80		1	16.0	4.0	
14+228	Pipe	1xØ0.80		1	14.0	4.0	
14+420	Pipe	1xØ1.00		1	15.0	4.0	
14+540	Box		2(1.80x1.80)	1	11.0	4.0	
14+965	Box		2(1.50x1.50)	1	11.0	4.0	
15+349	Pipe	1xØ0.60		1	14.0	4.0	
15+496	Box		2(1.80x1.80)	1	11.0	4.0	
15+730	Pipe	1xØ0.60		1	14.0	4.0	
18+059	Pipe	4xØ0.80		1	12.0	4.0	
18+844	Pipe	2xØ1.00		1	20.0	4.0	
19+015	Pipe	2xØ0.60		1	16.0	4.0	
19+542	Pipe	1xØ1.00		1	16.0	4.0	
19+672	Pipe	1xØ1.00		1	16.0	4.0	
20+077	Pipe	3xØ1.00		1	22.0	4.0	
20+630	Pipe	3xØ1.00		1	16.0	4.0	
20+942	Pipe	1xØ1.00		1	20.0	4.0	
20+952	Pipe	2xØ1.00		1	12.0	4.0	
21+250	Pipe	2xØ1.00		1	12.0	4.0	
21+295	Pipe	1xØ1.00		1	20.0	4.0	
21+722	Pipe	2xØ1.00		1	20.0	4.0	
21+752	Pipe	1xØ1.00		1	14.0	4.0	
21+926	Pipe	2xØ1.00		1	16.0	4.0	
22+217	Pipe	1xØ0.60		1	13.0	4.0	
23+446	Pipe	1xØ1.00		1	22.0	4.0	
23+717	Pipe	2xØ1.00		1	18.0	4.0	
24+219	Pipe	2xØ1.00		1	16.0	4.0	
24+249	Box		1(1.20x1.20)	1	6.0	4.0	
24+803	Pipe	2xØ0.60		1	14.0	4.0	
24+992	Pipe	1xØ0.60		1	13.0	4.0	
25+387	Pipe	2xØ1.00		1	18.0	4.0	
26+000	Box		1(2.10x2.10)	1			16.0
26+200	Box		1(1.80x1.80)	1			14.0

LIST OF BOX AND PIPE CULVERT

STATION	CULVERT TYPE	CULVERT SIZE (m)		NO. of LOCATIONS	CULVERT LENGTH (m)		
		PIPE	BOX		EXISTING	EXTENDED CONST-RUCTION	NEW CONST-RUCTION
		NO. of ROW x DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)				
26+300-26+900	Pipe	1xØ0.80		1		24.0	
26+570	Box		1(1.80x1.80)	1		20.0	
26+900-29+000	Pipe	1xØ1.00		5		15.0	
	Pipe	1xØ0.60		5		15.0	
28+000	Box		1(1.80x1.80)	1		16.0	
29+200	Box		1(2.10x1.80)	1		14.0	
29+350	Box		1(1.80x1.80)	1		14.0	
29+350-30+500	Pipe	1xØ1.00		2		16.0	
	Pipe	1xØ0.60		3		16.0	
30+000	Box		1(1.80x1.80)	1		16.0	
30+500-32+700	Pipe	1xØ1.00		5		16.0	
	Pipe	1xØ0.60		5		16.0	
31+500	Box		1(1.80x1.80)	1		16.0	
32+240	Box		1(1.80x1.80)	1		14.0	
32+700-33+200	Pipe	1xØ1.00		2		16.0	
	Pipe	1xØ0.60		1		16.0	
33+200-34+000	Pipe	1xØ1.00		1		20.0	
	Pipe	1xØ0.60		2		20.0	
34+000	Box		1(1.80x1.80)	1		16.0	
34+000-35+150	Pipe	1xØ1.00		2		20.0	
	Pipe	1xØ0.60		3		20.0	
34+500	Box		1(1.80x1.80)	1		16.0	
35+150-36+700	Pipe	1xØ0.60		8		20.0	
36+700-37+700	Pipe	1xØ1.00		2		20.0	
	Pipe	1xØ0.60		3		20.0	
37+700	Box		1(1.80x1.80)	1		13.0	
37+700-38+150	Pipe	1xØ1.00		1		16.0	
	Pipe	1xØ0.80		1		16.0	
38+150-39+450	Pipe	1xØ0.60		5		13.0	
38+280	Box		1(2.40x2.40)	1		18.0	
38+600	Box		1(2.40x2.40)	1		18.0	
39+450-40+600	Pipe	1xØ0.60		5		20.0	
40+600	Box		1(1.80x1.80)	1		14.0	
40+600-41+700	Pipe	1xØ0.60		4		21.0	
41+000	Box		1(2.40x2.40)	1		15.0	
41+400	Box		1(2.10x2.10)	1		14.0	
41+700-43+600	Pipe	1xØ1.00		3		20.0	
	Pipe	1xØ0.60		7		20.0	
43+500-44+100	Pipe	1xØ1.00		1		32.0	
	Pipe	1xØ0.60		2		32.0	

STATION	CULVERT TYPE	CULVERT SIZE (m)		NO. of LOCATIONS	CULVERT LENGTH (m)		
		PIPE	BOX		EXISTING	EXTENDED CONST-RUCTION	NEW CONST-RUCTION
		NO. of ROW x DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)				
44+100-44+700	Pipe	1xØ0.60		3		38.0	
44+700-45+100	Pipe	1xØ1.00		1		42.0	
	Pipe	1xØ0.60		1		42.0	
45+100-46+200	Pipe	1xØ0.60		5		32.0	
45+420	Box		1(1.80x1.80)	1		24.0	
46+200-48+200	Pipe	1xØ1.00		5		24.0	
	Pipe	1xØ0.60		5		24.0	
48+200-49+300	Pipe	1xØ1.00		3		32.0	
	Pipe	1xØ0.60		3		32.0	
49+300-50+050	Pipe	1xØ0.60		4		26.0	
50+050-50+500	Pipe	1xØ1.20		2		16.0	
	Pipe	1xØ0.60		1		16.0	
50+500-51+450	Pipe	1xØ0.60		3		16.0	
51+400	Box		1(1.80x1.80)	1		14.0	