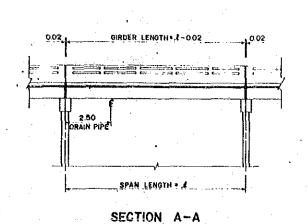
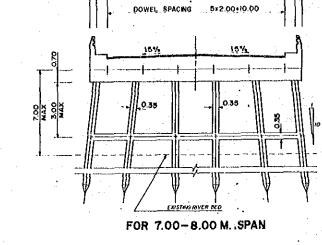


JICA RDSR STUDY WD6-1 ROUTE SHEET NO PALIAN - KHUAN KALONG HIGHWAY 11 0= 14 PLAN OF INTERSECTION -R.O.W TO RATTAPHUM TO SATUN ROUTE NO. 406



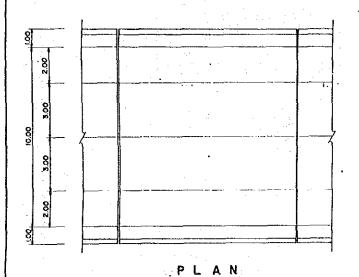


0.375

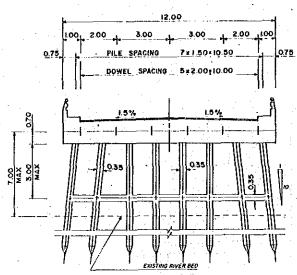
13.00

100 - 300 - 300 - 300 - 300 - 300

PILE SPACING 5x2.25×11.25

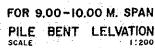


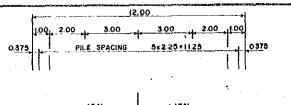
SCALE

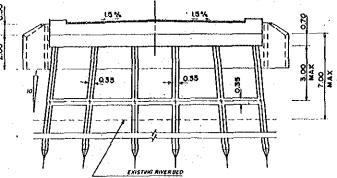


LIST OF BRIDGES

STATION	SPAN AND LENGTH (m)
27+600	7.00+8.00+7.00 = 22.00
31+100	4 1 7.00 = 28.00
43+600	3x 8.00 * 24.00
45+100	1±10.00 = 10.00
46+500	3x 8.00 + 24.00

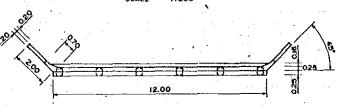




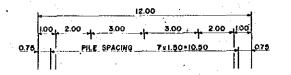


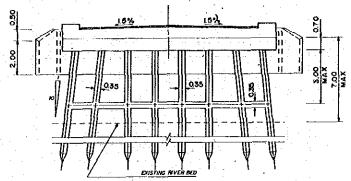
FOR 7.00-8.00 M. SPAN

ELEVATION SCALE 1:200

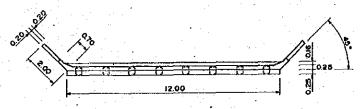


FOR 7.00-8.00 M. SPAN PLAN SCALE 1:200





FOR 9.00-10.00 M. SPAN **ELEVATION** SCALE 1:200



FOR 9.00-10.00 M. SPAN PLAN

RDSR STUDY JICA

WD6-I ROUTE SHEET NO PALIAN - KHUAN KALONG HIGHWAY 12 OF 14

REINFORCED CONCRETE SLAB BRIDGE

- NOTES 1

 1. DESIGN STRESSES 1

 8) CONCRETE, for 1

 STEEL, fs - 70 KBC. - 1,400 KSC. (INTERNEDIATE GRADE) - 1,200 KSC. (STRUCTURAL GRADE)
- CONCRETE SHALL HAVE MINIMUM ULTIMATE COMPRESSIVE STRENGTH
 OF 210 KG/CH² FOR .15 X .15 X .15 CUBE AT 28 DAYS. AND
 APPROXIMATE MIX DESIGN PER CUBIC METER IS SUGGESTED AS
 FOLLOWS:
 PORTLAND CEMENT, MIN.
 SAND
 CRUSHED ROCK OR GRAVEL
 CONCRETE SLUMP, MAX
 10 CM.

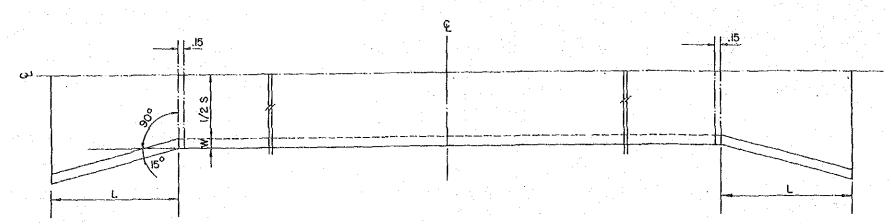
- CLEAR CONCRETE COVER FOR TOP REINFORCEMENT IN SLAB BRIDGE SHALL BE 1.5 CM. ELSENHERE OF SLAB BRIDGE AND SIDEMALK SHALL BE 2.5 CM.
- 4. ALL CONCRETE EXPOSED CORNERS SHALL HAVE 2 CM. CHAMPER UNLESS OTHERWISE INDICATED.
- REBARS #4 OR LARGER SHALL BE INTERMEDIATE GRADE DEFORMED BARS, OTHERS SHALL BE STRUCTURAL 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 BALINE PROTECTION, HIGH BULPHATE RESISTANT PORTLAND CEMENT TYPE 5 CONFORMED TO AASHTO SPECIFICATIONS SHALL BE USED AND ADDITIONAL CONCRETE COVER OF 2.5 CM. FROM NORMAL CASE ALL AROUND SHALL BE PROVIDED HITHOUT ALTERING THE LOCATIONS OF REBARS.
- 9. ALL MATERIALS SHALL BE USED UNDER THE APPROVAL OF THE ENGINEER.
- 10. 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.
- 11. ALL DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE INDICATED.
- 12. BAR MARK SIOI NAY 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-DRIP SUCH THAT CONCRETE COVER IS NOT ADEQUATE, THEY SHALL BE PLACED ON TOP OF ST 101. OTHER BARS MITCH PASS THROUGH DRAIN PIPES SHALL PE BENT ALONG THE PIPES.
- 1). ALL PIERS WHICH DO NOT HAVE LOG PROTECTION WALLS SHALL, BE HAUNCH UNDER THE TOP CROSS BRACING.
- 14. IF ANY HOTES ON THE DRAWINGS OF PIERS CONTRADICT THE HOTES ON THIS DRAWING, THEY WILL BE SUPERSEDED BY THESE NOTES.
- THIS DRAWING IS ADAPTED FROM DON DNG NO.) ADS-108-14/IA IN CASE OF ANY DISCREPANCY BETWEEN SUCH DRAWINGS ARISES, THE DON, STANDARD DRAWING WILL PREVAIL UNDER THE APPROVAL OF THE ENGINEER.

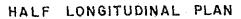
~ ~ ·	~!!! \ !!!!	-
BOX	CULVER	
UUN		

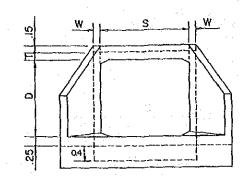
JICA RDSR STUDY

WD6-1 ROUTE SHEET NO.
PALIAN-KHUAN KALONG HIGHWAY 13 OF 14

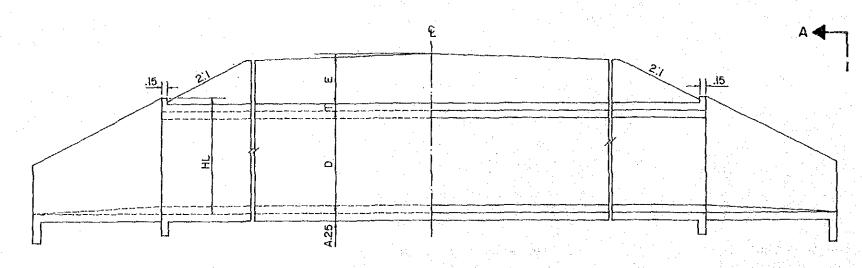
BOX CULVERT







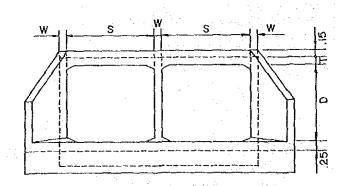
SINGLE TYPE





HALF LONGITUDINAL SECTION





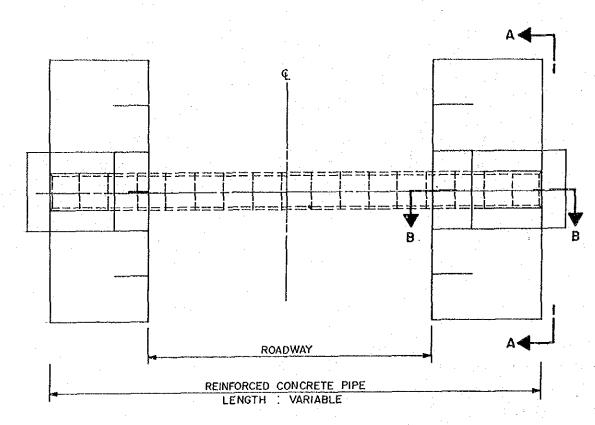
DOUBLE TYPE

SECTION A-A

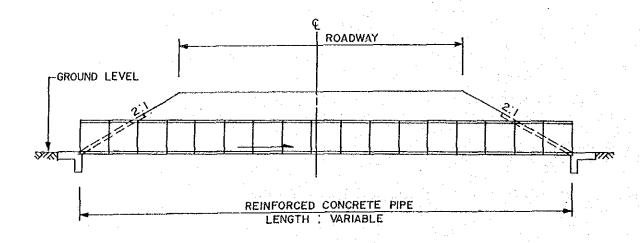
PIPE CULVERT

JICA	RDSR	STUDY	
	I ROUTE		SHEET NO.
PALIAN - KHUAN	KALONG H	IGHWAY	4 OF 4

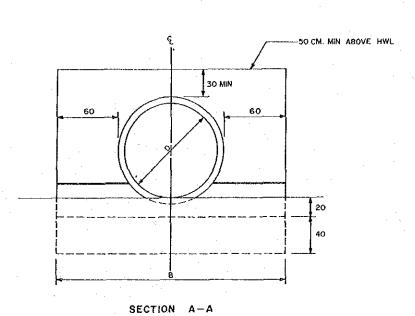
PIPE CULVERT



PLAN



PROFILE



SIDE SLOPE VARIES

CONCRETE SLAB

SECTION B-B

LIST OF BRIDGES (WD6-1:S3) (1/2)

Station	Materials	Structural System	Width (a+b+c+d+e:m)	Span and Length (m)	Remarks (Fig.)
2+054	RC	SP.SL	0.5+0.0+8.0+0.0+0.5=9.0	3*10.0=30.0	Used as existed
5+156	RC	SP.SL	0.5+0.0+8.0+0.0+0.5=9.0	1*10.0=10.0	Used as existed
9+926	RC	SP.SL	0.5+0.0+8.0+0.0+0.5=9.0	6.0+8.0+6.0=20.0	Used as existed
13+120	RC	SP.SL	0.5+0.0+8.0+0.0+0.5=9.0	8.0+10.0+8.0=26.0	Used as existed
18+149	RC	SP.SL	0.5+0.0+8.0+0.0+0.5=9.0	6.0+8.0+6.0=20.0	Used as existed
19+532	RC	SP.SL	0.5+0.0+8.0+0.0+0.5=9.0	1*10.0=10.0	Used as existed
19+832	RC	SP.SL	0.5+0.0+8.0+0.0+0.5=9.0	1*10.0=10.0	Used as existed
27+600	RC	SP.SL	0.3+0.7+10.0+0.7+0.3=12.0	7.0+8.0+7.0=22.0	New construction (New link)
31+100	RC	SP.SL	0.3+0.7+10.0+0.7+0.3=12.0	4*7.0=28.0	New construction (New link)
34+150 Kh.Langu	PC/RC	SP.T/SP.SL	0.3+0.7+8.0+0.7+0.3=10.0	4*10.0+20.0+2*10.0=80.0	Used as existed
38+550	RC	SP.SL	0.3+0.7+8.0+0.7+0.3=10.0	1*10.0=10.0	Used as existed
43+600	RC	SP.SL	0.3+0.7+10.0+0.7+0.3=12.0	3*8.0=24.0	New construction
45+100	RC	SP.SL	0.3+0.7+10.0+0.7+0.3=12.0	1*10.0=10.0	New construction
46+500	RC	SP.SL	0.3+0.7+10.0+0.7+0.3=12.0	3*8.0=24.0	New construction

LIST OF BRIDGES (WD6-1:S3) (2/2)

Station	Materials	Structural System	Width (a+b+c+d+e:m)	Span and Length (m)	Remarks (Fig.
57+850	RC	SP.SL	0.2+0.8+8.0+0.8+0.2=10.0	3*5.0=15.0	Used as existed
67+630	RC	SP.SL	0.2+0.8+8.0+0.8+0.2=10.0	4*10.0=40.0	Used as existed
69+180	RC	SP.SL	0.2+0.7+8.0+0.7+0.2=9.8	3*7.0=21.0	Used as existed
70+400	RC	SP.SL	0.3+0.7+8.0+0.7+0.3=10.0	3*10.0=30.0	Used as existed
70+960	RC	SP.SL	0.3+0.7+8.0+0.7+0.3=10.0	3*6.0=18.0	Used as existed
73+580	RC	SP.SL	0.3+0.7+8.0+0.7+0.3=10.0	3*8.0=24.0	Used as existed
76+080	RC	SP.SL	0.3+0.7+8.0+0.7+0.3=10.0	7*10.0=70.0	Used as existed
79+780	RC	SP.SL	0.3+1.2+8.0+1.2+0.3=11.0	8.0+4*10.0+8.0=56.0	Used as existed

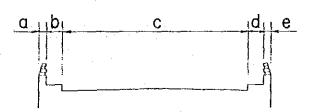
Note: (1) Materials

RC: Reinforced Concrete Bridge PC: Prestressed Concrete Bridge

(2) Structural System

SP.SL: Simply Supported Slab

SP.T: Simply Supported T-shape Girder



LIST OF BOX AND PIPE CULVERT

			CULVERT	CULVERT	SIZE (m)	NO. of	CU	LVERT LENG	TH (m)
	STATION			PIPE	вох				
			TYPE	NO. of ROW x DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)	LOCATIONS	EXISTING	EXTENDED CONST- RUCTION	NEW CONST- RUCTION
 									· · · · · · · · · · · · · · · · · · ·
Ì	0+347		Pipe	1x⊙1.00		1	12.0	3.0	
. ·	1+035	}	Pipe	1x⊙1.00		1	12.0	3.0	
ļ	2+485		Pipe	1x⊙0.80	• • • •	[<u>l</u>	13.0	3.0	
	2+675		Pipe	1x⊙0.80		1	13.0	3.0	
1	2+778	• [Pipe	1x⊙0.80		1	14.0	3.0	
1	3+095	.	Pipe	1x⊙0.80	•	1	10.0	3.0	
	3+715		Pipe	2x⊙0.80		1	14.0	3.0	1 2
	4+142	·j	Pipe	1x⊙0.80	0(4 00 4 60)	1	14.0	3.0	
l	5+926		Вох		2(1.00x1.50)	1	17.0	3.0	
1	6+142		Pipe	1xO0.80		1	$\begin{array}{c} 13.0 \\ 14.0 \end{array}$	$3.0 \\ 3.0$	
1	6+385	- 1	Pipe	1x⊙0.80		<u> </u>	14.0	3.0 3.0	-
	7+396		Pipe	1x⊙0.80	2(3.40x2.50)	1 :	10.0	3.0	
	8+181		Box	1x⊙0.80	Z(3.40X2.30)	1	12.0	3.0	14
1.	9+427		Pipe	1x00.00 1x01.00		1	13.0	3.0	
	9+621		Pipe			1	15.0	3.0	
1	10+106		Pipe	1x00.80		1	11.0	3.0	
}. '	11+088		Pipe	1x⊙0.80		1	10.0	3.0	
	11+599		Pipe	1x⊙0.80		1	7.0	3.0	
	11+750		Pipe	1x⊙0.60		4 2 2	11.0	3.0	* 1
	11+990		Pipe	1x⊙0.60		1 1	12.0	3.0	
	12+233		Pipe	1xO0.80		1	9.0	3.0	
	12+369		Pipe	1x00.60		1	18.0	3.0	
	12+912		Pipe	1x⊙0.80 2x⊙0.80		1	11.0	3.0	
}	13+383	.	Pipe	i .		1	14.0	3.0	
	13+766	- 1	Pipe	1xO0.60		1	14.0	3.0	
1	14+100		Pipe	1x⊙0.80 1x⊙1.00		1	16.0	3.0	
	14+297	1	Pipe			1	16.0	3.0	-111
1	14+645	1	Pipe	1x⊙1.00 1x⊙0.80	•	1	16.0	3.0	
}	15+340 15+620	-	Pipe Pipe	1x00.80	·] L	16.0	3.0	
	15+932	- 1	Pipe	1xO0.60		1	12.0	3.0	
1			Pipe	1x\igot\0.00		1 1	15.0	3.0	
	16+120		Pipe	1xO0.80		1	15.0	3.0	
1	16+980 17+150		Pipe	1x00.80		 	12.0	3.0	
1	17+130 17+507	-	Pipe	1xO0.00		1	12.0	3.0	
1	17+307 17+622		Pipe	1xO1.00		1 1	13.0	3.0	
	17+022	}	Pipe	1xO1.00		1	13.0	3.0	
1	17+411 17+740		Pipe	1x⊙1.00		1	14.0	3.0	
1	17+740 19+077		Pipe	1xQ1.00		1	14.0	3.0	
	19+077 19+976	- [Pipe	1xQ1.00		1	12.0	3.0	
	LOTOIU		TThe	17/0.00					<u>L </u>

	CULVERT	CULVERT	SIZE (m)	NO. of	cu	LVERT LENG	TH (m)
STATION	,	PIPE	вох			J	
	TYPE	NO. of ROW x DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)	LOCATIONS	EXISTING	EXTENDED CONST- RUCTION	NEW CONST- RUCTION
			X DELIU)				
20+060	Pipe	1x⊙0.60		1	12.0	3.0	
20+625	Pipe	1x⊙0.80		1	15.0	3.0	
21+145	Pipe	1x⊙0.80	·	1	19.0	3.0	
21+468	Pipe	1x⊙0.80		1	19.0	3.0	
22+615	Pipe	1x⊙0.80		1	24.0	3.0	
22+800	Box		1(1.80x1.80)	1		ļ	14.0
22+800-25+250	Pipe	1x⊙1.00		. 5		·	20.0
	Pipe	1x⊙0.60		3			20.0
23+250	Вох		1(1.80x1.80)	1			16.0
23+750	Box		1(1.80x1.80)	1			16.0
24+250	Box		1(1.80x1.80)	1	i		15.0
24+750	Вох		1(1.80x1.80)	1			13.0
25+250	Box	4 04 00	1(1.80x1.80)	1 -			15.0
25+250-27+800	Pipe	1x⊙1.00		5			18.0
07.750	Pipe	1x⊙0.60		3			18.0
25+750	Вох		1(1.80x1.80)	1			17.0
26+250	Вох		1(1.80x1.80)	. 1			13.0
26+750	Вох		1(1.80x1.80)	1			16.0
27+250	Box		1(1.80x1.80)	1			18.0
27+800-29+930	Pipe	1x⊙1.00		4			26.0
	Pipe	1x⊙0.60		5			26.0
29+400	Box		1(1.80x1.80)	1			14.0
29+930-32+700	Pipe	1x⊙1.00		5			18.0
	Pipe	1x⊙0.60		4			18.0
30+300	Box		1(1.80x1.80)	1			12.0
30+700	Вох		1(1.80x1.80)	1			12.0
31+700	Вох		1(1.80x1.80)	1			12.0
32+200	Вох		1(1.80x1.80)	1	ļ	1	12.0
32+700	Вох	المدالة الماران	1(1.80x1.80)	1			12.0
33+076	Pipe	1x⊙0.80		1.	15.0	2.0	4.4
33+340	Pipe	1x⊙0.80		1	14.0	2.0	[
33+606	Pipe	1x⊙0.80		1	15.0	2.0	
33+860	Pipe	1x⊙0.80		1	15.0	2.0	
33+995	Pipe	1x⊙0.80		1	14.0	2.0	
34+560	Pipe	1x⊙0.80		1	18.0	2.0	
34+810	Pipe	1x⊙0.80		1	16.0	2.0	
35+189	Pipe	1x⊙0.80		1	24.0	2.0	
35+390	Pipe	1x⊙0.60		1	14.0	2.0	
35+838	Вох		4(1.50x1.50)	1	10.0	2.0	
38+754	Pipe	1x⊙0.80		1	14.0	2.0	

LIST OF BOX AND PIPE CULVERT

	OH UDAM	CULVERT	SIZE (m)	NO. of	cu	LVERT LENG	TH (m)
STATION	CULVERT	PIPE	вох	ן אָט. טַנ		<u> </u>	
V2111 TVII	TYPE			LOCATIONS		EXTENDED	NEW
÷ **		NO. of ROW x	NO. of CELLS		EXISTING	CONST-	CONST-
+		DIAMETER	(CLEAR SPAN			RUCTION	RUCTION
			x DEPTH)				
39+478	Pipe	2x⊙0.80		1	15.0	2.0	
39+667	Pipe	2x⊙1.00		1	15.0	2.0	
39+684	Pipe	2x⊙0.80		1	18.0	2.0	
40+030	Pipe	2x⊙0.80		1	16.0	2.0	
40+455	Pipe	2x⊙0.80		1	17.0	2.0	
40+724	Pipe	2x⊙0.80		1	13.0	2.0	*
40+919	Pipe	3x⊙0.80		1 1	14.0	2.0	
40+925	Pipe	1x⊙0.80		1	14.0	2.0	
41+100-42+800	Pipe	1x⊙1.00		4			17.0
77 700 70.000	Pipe	1x⊙0.80		3			17.0
41+200	Box		1(1.80x1.80)	1			12.0
41+240	Pipe	3x⊙0.80		1	14.0	2.0	
42+000	Box		1(1.80x1.80)	1			11.0
42+800-44+150	Pipe	ix⊙1.00		2			18.0
	Pipe	1x⊙0.60	į.	3			18.0
43+000	Box		1(1.80x1.80)	1			11.0
44+000	Вох		1(1.80x1.80)	1			13.0
44+150-44+600	Pipe	1x⊙0.60		2	. '		20.0
44+400	Box		2(2.10x2.10)	1			14.0
44+600-45+300	Pipe	1x⊙1.00		2			22.0
	Pipe	1x⊙0.60		2			22.0
45+300-46+350	Pipe	1x⊙0.80		2			26.0
	Pipe	1x⊙0.60		3			26.0
45+800	Вох		1(1.80x1.80)	1			17.0
46+350-46+750	Pipe	1x⊙1.00		2		l'	26.0
	Pipe	1x⊙1.00		7			18.0
	Pipe	1x⊙0.60	and the second	8			18.0
47+450	Box		1(1.80x1.00)	1			12.0
48+400	Box		1(1.80x1.00)	1			13.0
50+150-50+800	Pipe	1x⊙1.20	-	i] .	18.0
	Pipe	1x⊙1.00	· !	1			18.0
	Pipe	1x⊙0.80		1			18.0
	Pipe	1x⊙0.60		1]	18.0
50+800-52+400	Pipe	1x⊙1.00		1			18.0
	Pipe	1x⊙0.60		6			18.0
51+350	Вох		1(1.80x1.80)	1			13.0
52+400-56+950	Pipe	1x⊙1.00		5			15.0
:	Pipe	1x⊙0.80		5			15.0
	Pipe	1x⊙0.60		9			15.0
53+700	Box	l 'i	1(2.10x2.10)			1	13.0

	CULVERT	CULVERT	SIZE (m)	NO. of	CU	LVERT LENG	TH (m)
STATION	TYPE	PIPE	вох	LOCATIONS		EXTENDED	NEW
	1156	NO. of ROW X	NO. of CELLS (CLEAR SPAN	LOCATIONO	EXISTING	CONST- RUCTION	CONST- RUCTION
	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		x DEPTH)			ļ	1.
54+820	Вох		1(2.10x2.10)	1			20.0
55+250	Box		1(2.10x2.10)	1			11.0
56+350	Box		1(2.10x2.10)	1	Ì '		12.0
56+950	Box		1(1.80x1.80)	1			18.0
56+950-59+000	Pipe	1x⊙1.00		4	ĺ		20.0
	Pipe	1x⊙0.60		5]		20.0
57+400	Box		1(1.80x1.80)	1	ļ		16.0
59+316	Pipe	1x⊙1.00		1	18.0	2.0	
59+815	Pipe	1xO1.00		1	22.0	2.0	
60+040	Pipe	1x⊙1.00	<u> </u>	1	15.0	2.0	
60+376	Pipe	1x⊙0.60		1	17.0	2.0	
60+509	Pipe	2xO1.00		1	20.0	2.0	
60+566	Pipe	3x⊙1.00		1	19.0	2.0	
60+711	Box		2(3.00x3.00)	1	10.0	2.0	
60+750	Вох		2(3.30x3.30)	1	12.0	2.0	
60+938	Pipe	1x⊙1.00		1	17.0	2.0	++ 1 4 x
61+144	Pipe	1x⊙0.80	1	1	19.0	2.0	
61+326	Pipe	2xQ1.00		1	22.0	2.0	
61+761	Pipe	2x⊙1.00		1	16.0	2.0	
61+793	Pipe	2x 🔾 0.60	}·	1	14.0	2.0	
61+966	Pipe	1x⊙0.60	ļ	1	14.0	2.0	
62+169	Pipe	1x⊙0.80		1	11.0	2.0	
62+361	Pipe	1xO1.00		1	16.0	2.0	
62+556	Pipe	1x⊙0.60		1	15.0	2.0	į
62+707	Pipe	1x⊙1.00		1	14.0	2.0	
62+954	Pipe	2x⊙0.60	1	1	15.0	2.0	
63+106	Pipe	1xO1.00		1	15.0	2.0	
63+243	Pipe	1x⊙0.80		1	15.0	2.0	
63+340	Pipe	1xO1.00		1	16.0	2.0	
63+511	Pipe	2x 00.80		1 1	12.0	2.0	
63+527	Pipe	2x⊙0.60		l î	14.0	2.0	
. •	Pipe	2x⊙1.00		1	16.0	2.0	
63+623	Pipe Pipe	1x ₀ 0.80	·	1	15.0	2.0	
63+789	Pipe	2x⊙0.80		1	16.0	2.0	1
63+944		1xO1.00		î	16.0	2.0	
64+270	Pipe				16.0	2.0	
64+416	Pipe	2x⊙1.00		1 1	17.0	2.0	1
64+717	Pipe	3x⊙1.00	4	1	14.0	2.0	
64+930	Pipe	2xO0.60		1	16.0	2.0	
65+034	Pipe	2x⊙1.00	100	1	15.0	2.0	Park S
65+419	Pipe	1x⊙0.80		1	10.0		<u>L</u>

LIST OF BOX AND PIPE CULVERT

		CULVERT	CULVERT	SIZE (m)	NO. of	cu	LVERT LENG	TH (m)
SI	TATION	TYPE	PIPE	ВОХ	LOCATIONS		EXTENDED	NEW
		HIE	NO. of ROW x DIAMETER	NO. of CELLS (CLEAR SPAN x DEPTH)	LUCAT TORS	EXISTING	CONST- RUCTION	CONST- RUCTION
{	65+850	Pipe	2x⊙0.60		1	15.0	2.0	
	66+000	Pipe	1x⊙0.60		1	17.0	2.0	
(66+199	Pipe	1x⊙1.00		1	16.0	2.0	
{	66+485	Pipe	1x⊙1.50		1	20.0	2.0	
6	66+671	Pipe	1x⊙1.00		1	15.0	2.0	
. (66+749	Pipe	1x⊙1.00		1	17.0	2.0	
(66+897	Pipe	1x⊙1.00		1	16.0	2.0	
f	66+994	Pipe	1x⊙1.20	•	1	19.0	2.0	
{	37+329	Pipe	1x⊙1.20		1	21.0	2.0	
{	68+289	Pipe	1x⊙1.00		1	17.0	2.0	٠.
. 6	68+546	Box		2(2.40x2.40)	1	16.0	2.0	
. (69+040	Pipe	1x⊙1.00		1	19.0	2.0	
	69+873	Pipe	1x⊙1.00		1	17.0	2.0	
	70+762	Pipe	1x⊙1.00		. 1	18.0	2.0	
	71+620	Box		1(2.40x2.40)	1	11.0	2.0	
	72+115	Pipe	1x⊙1.00		1	14.0	2.0	
	72+923	Вох		2(2.40x2.40)	1	12.0	2.0	
	72+982	Pipe	1x⊙1.00		1	16.0	2.0	
	73+975	Pipe	1x⊙1.00		1	18.0	2.0	
	74+203	Pipe	1x⊙0.60		1	16.0	2.0	
	75+369	Pipe	1x⊙0.80		1	14.0	2.0	
	77+001	Pipe	1x⊙1.00		1	14.0	2.0	
	77+081	Pipe	1x⊙0.80		1	14.0	2.0	
	77+909	Pipe	1x⊙1.00		1	15.0	2.0	
	30+910	Pipe	1x⊙0.80		1	14.0	2.0	
	31+935	Pipe	1xO1.00		1	14.0	2.0	
	32+185	Pipe	2x⊙0.60		1	14.0	2.0	