社会開発協力部報告書

No. 6

AFRICAN DEVELOPMENT BANK

GOVERNMENT OF MAURITIUS

BEAU BASSIN - PORT LOUIS LINK ROAD

REINFORCEMENT SCHEDULE

FOR

SUBSTRUCTURE OF BRIDGES

SEPTEMBER 1980

Japan International Cooperation Agency

CONTENTS

1. Motorway Junction

Page

CONTENTS

§§ 1. A-LINE - 1 B.R

A1 -ABUTMENT

Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
P 1	Φ 16	2.86	42	120.12	1.58	190	270 16
2	〃	2.86	77	220.22	〃	348	16 270
3	〃	2.50	16	40.00	〃	63	200 18
4	Φ 12	9.96	18	179.28	0.888	159	996
5	〃	1.06	4	4.24	〃	4	46 58
A 1	Φ 16	9.96	33	328.68	1.58	519	996
2	〃	9.96	31	308.76	〃	488	996
3	〃	8.85	42	371.70	〃	587	835 50
4	〃	7.60	38	288.80	〃	456	710 50
5	〃	2.54	42	106.68	〃	169	104 75
6	〃	2.75	40	110.00	〃	174	130 145
7	〃	2.72	30	81.60	〃	129	90 212 30

Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
B 1	Φ25	10.00	15	150.00	3.85	578	30 800 80 50
2	〃	9.70	9	87.30	〃	336	50 790 70 50
3	〃	7.20	6	43.20	〃	166	600 70 50
4	〃	5.30	6	31.80	〃	122	420 80 50
5	Φ16	3.40	150	510.00	1.58	806	115~965 18
6	〃	5.13	132	677.16	〃	1,070	125~800 50
7	〃	2.25	120	270.00	〃	427	30 145 80
8	〃	2.76	80	220.80	〃	349	30 216 30
9	〃	1.44	75	108.00	〃	171	50 44
10	Φ12	0.64	60	38.40	0.888	34	10 44
E 1	Φ16	1.51	36	54.36	1.58	86	16 9 18 55
2	Φ12	9.96	2	19.92	0.888	18	996

Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
WL 1	Φ 16	5.79	4	23.16	1.58	37	483
2	〃	4.76	5	23.80	〃	38	455~305
3	〃	3.49	12	41.88	〃	66	355~150
4	〃	3.00	9	27.00	〃	43	250
5	〃	5.79	4	23.16	〃	37	483
6	〃	4.76	5	23.80	〃	38	455~305
7	〃	3.49	6	20.94	〃	33	355~150
8	〃	3.23	5	11.15	〃	18	30 263
9	〃	1.95	6	11.70	〃	18	30 135
10	〃	2.55	36	91.80	〃	145	105~405
11	〃	7.30	2	14.60	〃	23	90 670
12	〃	1.03	19	19.57	〃	31	30 43
13	Φ 12	4.83	2	9.66	0.888	9	483

Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
WR 1	Φ20	10.65	5	53.25	247	132	365 / 620 / 15 / 50
2	Φ25	5.33	30	159.90	3.85	616	483 / 18
3	〃	4.43	9	39.87	〃	153	393 / 18
4	Φ20	5.33	30	159.90	247	395	483 / 18
5	〃	4.43	9	39.87	〃	98	393 / 18
6	Φ16	3.50	18	63.00	1.58	100	300 / 18
7	〃	2.60	10	26.00	〃	41	210 / 18
8	〃	3.14	4	12.56	〃	20	46 / 268
9	〃	2.14	5	10.70	〃	17	46 / 245~90
10	〃	2.91	4	11.64	〃	18	46 / 245
11	〃	1.91	5	9.55	〃	15	46 / 120~70
12	〃	11.66	28	326.48	〃	516	850 / 446 / 47 / 20
13	〃	8.85	6	53.10	〃	84	835 / 50
14	〃	5.80	9	52.20	〃	82	530 / 50
15	〃	1.60	14	22.40	〃	35	105 ~715
16	〃	2.25	23	51.75	〃	82	30 / 165 / 18

Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
WR17	Φ16	3.23	4	12.92	1.58	20	30 263 30
18	〃	1.95	6	11.70	〃	18	30 135 30
19	〃	2.76	16	44.16	〃	70	30 216 30
20	〃	4.10	2	8.20	〃	13	90 320
21	〃	5.20	23	119.60	〃	189	420
22	〃	1.44	130	43.20	〃	68	50
23	Φ12	5.83	2	11.66	0.888	10	583
F 1	Φ20	2.75	83	228.25	2.47	564	70 205
2	Φ16	2.59	42	108.78	1.58	172	189 70
3	〃	9.96	37	368.52	〃	582	996
4	〃	9.96	37	368.52	〃	582	996
5	〃	5.60	38	212.80	〃	336	70 490
6	〃	5.60	42	235.20	〃	372	70 490
7	〃	2.10	33	63.90	〃	109	210
8	〃	11.36	7	79.52	〃	126	70 996 70

Bar mark	Type size	length +laps (cm)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
F 9	Φ16	7.30	2	14.60	1.58	23	8 630 8
10	〃	10.96	2	21.92	〃	35	8 996 8
11	Φ12	11.36	7	79.52	0.888	71	70 996 70
13	Φ16	2.19	75	164.25	1.58	260	53 73 1010
12	〃	2.70	24	64.80	〃	102	54 88 1010
			Φ25			1.971	kg
			Φ20			1.189	〃
			Φ16			10.646	〃
			Φ12			305	〃
		GRAND	TOTAL			14.111	kg

A_2 -ABUTMENT

Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
P1	Φ16	3.06	42	128.52	1.58	203	16 / 290
2	"	3.06	77	235.62	"	372	16 / 290
3	"	2.50	16	40.00	"	63	200 / D
4	Φ12	9.96	18	179.28	0.888	159	996
5	"	1.06	4	4.24	"	4	D / 16
A 1	Φ16	9.96	38	378.48	1.58	598	996
2	"	9.96	36	358.56	"	567	996
3	"	10.79	41	442.39	"	699	(550) (577) 577 / 150 / 47
4	"	9.77	37	361.49	"	571	(550) (577) 577 / 150 / 47
5	"	2.54	41	104.14	"	165	104 / 75
6	"	2.55	39	99.45	"	157	110 / 145
7	"	3.04	29	88.16	"	139	20 / 144 / 30
E 1	Φ16	1.51	35	52.85	1.58	84	16 / 20 / 15 / 8
2	Φ12	9.96	2	19.92	0.888	18	996

Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
B 1	Φ32	12.66	15	192.90	6.31	1,217	
2	"	10.46	3	31.38	"	198	
3	"	7.80	6	46.80	"	295	
4	"	6.10	6	36.60	"	231	
5	Φ16	3.95	186	734.70	1.58	1,161	
6	"	9.12	48	437.76	"	692	
7	"	4.55	114	518.70	"	820	
8	"	2.25	145	326.25	"	515	
9	"	1.76	95	262.20	"	414	
10	"	1.45	93	134.85	"	213	
11	Φ10	0.64	42	26.88	0.616	17	
WL 1	Φ25	13.57	5	67.85	3.85	261	
2	"	6.33	36	227.88	"	877	
3	"	5.43	10	54.30	"	209	
4	"	9.00	13	52.00	"	200	

Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
5	Φ10	6.33	36	227.88	1.47	565	50 583
6	"	5.43	10	54.30	"	134	50 493
7	Φ16	4.00	8	32.00	1.58	51	50 350
8	"	12.70	36	457.20	"	722	47 50 (570) 50
9	"	10.79	6	64.74	"	102	(50) (411) 50 47 50
10	"	6.50	11	71.50	"	113	50
11	"	2.53	29	73.37	"	116	50 193 50
12	"	3.50	4	14.00	"	22	50 290 50
13	"	2.24	6	13.44	"	21	50 147 50
14	"	3.14	20	62.80	"	99	50 314 50
15	"	2.82	19	53.58	"	85	110 46
16	"	1.46	19	27.74	"	44	50 46
17	"	1.64	44	72.16	"	114	50 67
18	Φ16	1.44	2	2.88	"	5	50 44
19	Φ12	4.93	2	9.86	0.888	9	493

Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
WR1	Φ16	5.59	3	16.77	1.58	26	50 463 46
2	"	4.31	7	30.17	"	48	50 450~110 46
3	"	2.96	5	14.80	"	23	50 175~125 46
4	"	5.59	3	16.77	"	26	50 463 46
5	"	4.31	7	30.17	"	48	50 450~110 46
6	"	2.96	5	14.80	"	23	50 175~125 46
7	"	1.30	34	78.20	"	124	355~145
8	"	7.20	2	14.40	"	23	630 90
9	"	1.95	6	11.70	"	18	20 135 30
10	"	3.23	3	9.69	"	15	20 225 30
11	"	1.03	18	18.54	"	29	20 93
12	Φ12	4.63	2	9.26	0.888	8	463

Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
F 1	Φ20	3.35	81	271.35	1.97	670	80 255
2	Φ16	3.20	41	131.20	1.58	207	110 80
3	"	2.96	45	448.20	"	708	996
4	"	2.96	45	448.20	"	708	996
5	"	6.70	37	247.90	"	392	590 80
6	"	6.70	41	274.70	"	434	590 80
7	"	2.30	32	73.60	"	116	230
8	"	11.56	9	104.04	"	164	80 996 80
9	"	8.80	4	35.20	"	56	50 180 50
10	"	10.96	4	43.84	"	69	50 996 50
11	Φ12	11.56	9	104.04	0.888	92	80 996 80
12	Φ20	2.94	39	114.66	2.47	283	53 10 10
13	Φ16	2.39	92	219.88	1.58	347	53 10 10

Bar mark	Type size	length +laps (cm)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
			Φ32			1941	kg
			Φ25			1547	"
			Φ20			1650	"
			Φ16			12531	"
			Φ12			290	"
			Φ10			17	"
		GRAND	TOTAL			17976	kg