1.5.12 IRR South

Inspecton resul															Span N	ło.	Γ	1
		Dama	iges of a	steel me	mbers		Damag	es of co	ncrete n	nember	s	T		Ot	hers			
		Corrosion	Cracking	Viissing bolts	racture	Cracking, Water leakage, Free lime	No.	Rebar exposure	Pop-outs	Deck cracking	Damages at anchorage of PC tender	evel difference of road surface	Functional damage of bearings	Damages in substructures	Damages in pavemnents	Damages in expansion joints	Damages in cable	Remarks
	01					a		a			a		L L					<u> </u>
Girder	02				n ser	a		a			a	(C. State of C. State		w.	1			
	03					a		а			a	1						· · · · · · · · · · · · · · · · · · ·
~ .	01	10 E				а		а		P.(a	and a starting						
Crossbeam	02					а		а			а							
	03		_a.,			a		a			a		4					
Dest.	01							a	a	c								
Deck	02							а	а	a								
achla	03 01	2 9 V		64. (A)				a	a	С								
cable	01		dinasi di seconda di s Seconda di seconda di se								a	1		Sec. 10				
Pier -	01				and the second	C		a				h						
	02	B. Constraints of P.				С	anter de la composition	а	ta state									
Abuttment	02						5 (j) 1 (j)	nep orak				() ()						· · ·
Road surface			a viz d ^a lan Aparto da a				a de partes	and the second	Alexandra de					1				
Pavement		Contraction of Contraction		Construction	ana an		and the second					a	1			an a		
i aromon	01		a supression	201770100000			at an				National States	1			a			
Barriers	02		and and a second	16.19 (1997) 16.19 (1997)										all in a	i i i i i i i i i i i i i i i i i i i	а		
Railings	02						2000 C				ang dia di				line and the	a		
i i i i i i i i i i i i i i i i i i i	04		in berner	e (Carallele)	ACCERCIANCE AND A				Transford Providence	1			te state and			a		
Expansion joints	01		1947 (A.													a	a	

Estimation	of	repair	quantity
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	timation of repair quantity		RR South	Span No. 1
	Subject	1	Quantity	Remarks
1	Span length		68.83 m	Length of 1 span
2	Road width for pavement		28.57 m	Width for pavement area (Vehicle lane)
3	Total road width		35.57 m	Deck width
4	Area of bridge surface		2,448.3 m ²	Span length x Total width
5	Area of pavement		1,966.5 m ²	Span length x Width for pavement
		01	concrete	Type of barriers & railings
		02	concrete	Same as above
6	Barriers & railings	.03	concrete	Same as above
		04	concrete	Same as above
F		01	steel	Type of expansion joint
7	Expansion joints	-		Same as above
	Crack length		Quantity	Remarks
	Total crack length	L	97.9 m	A of bridge surf. x 0.040
		01	9.8 m	$L \times 0.100$ assumed as 10%
	Girder	02	58.8 m	$L \times 0.600$ assumed as 60%
8		03	9.8 m	$L \times 0.100$ assumed as 10%
		01	2.9 m	$L \times 0.030$ assumed as 3%
	Crossbeam	02	13.7 m	$L \times 0.140$ assumed as 14%
		03	2.9 m	$L \times 0.030$ assumed as 3%
	Area of rebarb exposure		Quantity	Remarks
	Total area	Α	19.6 m ²	A of bridge surf. x 0,008
		01	$2.0 m^2$	$L \times 0.100$ assumed as 10%
	Girder	02	11.8 m ²	$L \times 0.600$ assumed as 60%
9	9	03	2.0 m ²	$L \times 0.100$ assumed as 10%
		01	0.6 m ²	$L \times 0.030$ assumed as 3%
	Crossbeam	02	2.7 m ²	$L \times 0.140$ assumed as 14%
ļ		03	0.6 m ²	$L \times 0.030$ assumed as 3%
-	Repaired area of deck		Quantity	Remarks
	Divided area	A	578.2 m ²	Deck width = 8.4 m Deck width for pos. x span length
1	Area of rebarb e	exposure	69.4 m ²	A × 0.120
	Area of deck cra	acking	358.5 m ²	A × 0.620
	Repair quanity of pylon & subs	ructure	Quantity	Remarks
1	11 Cracking, Water leakage,	Free lime	5.54 m	per substructure
	Rebar exposure		2.24 m ²	per substructure
F	Concrete barrier		Quantity	Remarks
	12 Rebar exposure		9.79 m ²	A of bridge surf. x 0.004

						Bridge name		IRR South	Spar	n No.	11
			Dan classif	nage ication	ŋ		-			nage ication	ø
Member	No.	Damage	Classification	Judge	Countermeasure classification	Member	No.	Damage	Classification	Judge	Countermeasure classification
		Cracking, Water leakage, Free lime	а	-	5			Rebar exposure	a	-	5
	01	Rebar exposure	a	-	5		01	Pop-outs	а	-	5
		Damages at anchorage of PC tendon	а	-	5			Deck cracking	С	-	3
		Cracking, Water leakage, Free lime	a	-	5			Rebar exposure	a	-	5
Girder	02	Rebar exposure	a	-	5	Deck	02	Pop-outs	a	-	5
		Damages at anchorage of PC tendon	а	-	5			Deck cracking	a	-	5
		Cracking, Water leakage, Free lime	а	· -	5			Rebar exposure	a	-	5
	03	Rebar exposure	a	-	5			Pop-outs	a	-	5
		Damages at anchorage of PC tendon	a	-	5			Deck cracking	c	-	3
		Cracking, Water leakage, Free lime	a	-	5			Cracking, Water leakage, Free lime	с	-	3
	01	Rebar exposure	a	-	5		01	Rebar exposure	a	-	5
		Damages at anchorage of PC tendon	а	-	5	Substructure		Damages in substructures	a	-	5
		Cracking, Water leakage, Free lime	а	-	5			Cracking, Water leakage, Free lime	c	-	3
Crossbeam	02	Rebar exposure	a	-	5	_	02	Rebar exposure	а	-	5
		Damages at anchorage of PC tendon	а	_	5			Damages in substructures	а	-	5
		Cracking, Water leakage, Free lime	а		5	-Road surface	01	Level difference of road surface	a	-	5
	03	Rebar exposure	а	-	5		<u> </u>	Damages in pavemnents	a	-	5
		Damages at anchorage of PC tendon	a	-	5			Damages in barriers	a	-	5
						Barriers		Damages in barriers	а	-	5
						Railings	-	Damages in barriers	a	-	5
								Damages in barriers	a	-	5
						Expansion joints	01	Damages in expansion joints	a	-	5

	2		<u> </u>									
Ž	IRR South		ade	.ovi insde	-		Amonykimate	countermeasure classification 3	ure 13	countermeasure classification 4	sure n 4	Planned repair & peconstruction
noites itissels enemed	Damage classification Countermeasure	Regnation Repair method	Repair quantity	Unit	Approximate unit price (B)	Approximate repair price (B)	rpproximate repair price for countermeasure classification 1 & 2 (B)	Repair price (B)	Remaini ng years up to counter measure d. 2	Repair price (B)	Remaini ng years up to counter measure cl. 2	Repair price (B)
۳ ۲	<u> </u>	Resin injection	9.8	Ħ	5,000	49,000	-		2	'	15	1 CON LO
1	a 5	Patching	2.0	m²	17,500	35,000	1	-	2	1	5	39,000
	a 5	Reinforcement with external PC tendon		Pos.	1,000,000	- 000 - 000		1		'	' <u>'</u>	
"	a 5	Resin injection	58.8	E,	000'5	204,000			~ ~		2 2	2016 500
	a 5	Patching	11.8	те,	005,11	000,002	-	'				
	a 5	Reinforcement with external PC tendon		Pos.	T,000,000	- 10.000	•		· [-		151	
	a 5	Resin injection	9.8	B	5,000	49,000	' 	-			2 2	35.000
	a 5	Patching	2.0	m ²	17,500	000,65		'	-	1	2	
	a 5	Reinforcement with external PC tendon	1	Pos.	1,000,000			' 	' '		' <u>'</u>	
	a 5	Resin injection	2.9	E	5,000	14,500		۱ 	- 1	•	2 2	- 10 KON
	a 5	Patching	0.6	B ²	17,500	10,500	' 	1		•		ANC'NT .
	a 5	Reinforcement with external PC tendon	1	Pos.	1,000,000	-		1	· ('		•
	a 5	Resin injection	13.7	E	5,000	68,500	-			'	CI ;	
196.2	a 5	Patching	2.7	m2	17,500	47,300	-	-		1	2	41,500
	a 5	Reinforcement with external PC tendon	-	Pos.	1,000,000	1	-	'	•	'	•	'
	a 5	Resin injection	2.9	Ħ	5,000	14,500	-	'	~ ('	<u>-</u>	
estan.	a 5	Patching	0.6	m²	17,500	10,500	-	1	-	1	2	INCOL
	a 5	Reinforcement with external PC tendon	1	Pos.	1,000,000		'	'	• •	'	' '	1
	a 5	Patching	69.4	m2	17,500	1,214,500	'		-	-	<u>c</u>	'
	a 5	Patching & CFR		Pos.	10,000	. 1		-	:	ł	· ;	
	c 3	CFR	358.5	m²	22,500	8,066,300		8,066,300	7	T	3	nnc'oon'e
	a 5	Patching	69.4	m²	17,500	1,214,500		۱ ۱		1		-
	a 5	Patching & CFR	-	Pos.	10,000			1		•	- 2	- 000 220.0
	a 5	CFR	358.5	ш ³	22,500	8,066,300			71	'	3 5	000,000,0
	a 5	Patching	69.4	m²	17,500	1,214,500	1			-	<u>-</u>	'
	a 5	Patching & CFR	1	Pos.	10,000	'	'	1	•	_		1 000 7 20 0
	c 3	CFR	358.5		22,500	8,066,300		8,066,300	17	-		000,000,0
	c 3	Resin injection	5.54	ш	5,000	27,700	-	21,100		'	_	
SER	a 5	Patching	2.24	m²	17,500	39,200	-		-	1	2	39,200
	a .5	Foot protection	. 1.	Pier / pylon	1,750,000	-	•	1	·	1	ľ	•
╞		Resin injection	5.54	Ħ	5,000	27,700		27,700	7	•	_	1
2664	╀	Patching	2.24	- ^m	17,500	39,200		-	7	•	15	39,200
_	╇	Foot protection	'	Pier / pvlon	-		-		1	•	1	-
	╉	r out proceeds		2				 	5		10	-
dated.	a 5	Pavement replacement	· .	'e'	200.2	007 000 0			<u>`</u>			9 837 400
122	a 5	same as above	1,966.5	r <mark>-</mark> H	5,000	9,832,400		'				2005 FT
	a 5	Patching.	9.79		120,000	1,174,800	-	1	~	'		1,1/4,800
	ء ح	Patching.	9.79		120,000	1,174,800	-	•	7	•	15	1,174,800
			9.79		120,000	1,174,800	-	•	7	•		1,174,800
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	╀		0 70		120.000	1.174.800	- -		7	1	15	1,174,800
2011	╉											
46					1000	177 000			-		2	

Inspecton result	:														Span N	10.		2
		Dama	ges of s	steel me	mbers		Damag	es of co	ncrete n	nembers	3			Ot]	hers			
		Corrosion	Cracking	Missing bolts	Tacture	Cracking, Water leakage, Free lime	No.	Rebar exposure	Pop-outs	Deck cracking	Damages at anchorage of PC tender	cevel difference of road surface	Functional damage of bearings	Damages in substructures	Damages in pavements	Damages in expansion joints	Damages in cable	Remarks
	01					a		a			a							
Girder	02					a		a	4		a		10 A	hi in the second se				
	03					a		a			a				544		1	·
Crossbeam	01 02	And the second sec			iī	a		а			a							
Crossbeam	02			Contraction of the second		a		a	dialantaria di Ata		a	1. 1. J	a de la composición d	С. (С.). С. (С.). С. (С.).				· · · · · · · · · · · · · · · · · · ·
	01			ne de la composition		a	Same (2011)	<u>a</u>		-	a						and the second	
Deck	02			Constanting of the		and a second second		a	a	<u> </u>		1		<u>11.18</u>				
	02							<u>a</u>	a	a a				ellerin solar Netrinologia				
cable	01						Providence	a	a	a	a	NACCO DE			1		1980-1991 (P. 91) 2080-1993 (P. 92)	
Pier	01		40 S			a		a	n contra da	and states and states	<u> </u>		Argy Steller					
Road surface						No.	A CONTRACTOR					a			n and a second			
Pavement										CONTRACTOR OF STREET					a			
	01	Carlo Maria						11-1-14/MA				and the second				a	al in the second	
Barriers	02		Contraction of the		order treated											a		
Railings	03				1997 - Sec.					1. S.						a		
-	04		1999 (1997) 1999 (1997)			sugard the state	a constant		and the second		0.000					a		

Estimation of repair quantity

	mation of repair quantit	у			Queu Nie	-
Bric	lge name		IRR South	<u> </u>	Span No.	2,
	Subject		Quantity		Remarks	
1	Span length		83.50 m	Length of 1 span		
2	Road width for pavement		28.57 m	Width for paveme	ent area (Vehicle lane)	-
3	Total road width		35.57 m	Deck width		
4	Area of bridge surface		2,970.1 m ²	Span length x Tot		
5	Area of pavement		2,385.6 m ²	Span length x Wi		
		01	concrete	Type of barriers &	k railings	
6	Barriers & railings	02	concrete	Same as above		
6	Barriers & rannings	03	concrete	Same as above		
		04	concrete	Same as above		
_	- · · ·	01	steel	Type of expansion	n joint	
7	Expansion joints	-	-	Same as above		
	Crack length		Quantity		Remarks	
	Total crack length	L	118.8 m	A of bridge surf. x 0.040		
		01	11.9 m	L × 0.100 a	assumed as 10%	
_	Girder	02	71.3 m	L × 0.600 a	assumed as 60%	
8	· · · · ·	03	11.9 m	L × 0.100 a	assumed as 10%	
		01	3.6 m	L × 0.030	assumed as 3%	
	Crossbeam	02	16.6 m	L × 0.140 a	assumed as 14%	-
		03	3.6 m	L × 0.030	assumed as 3%	
	Area of rebarb exposure	<u>. </u>	Quantity		Remarks	
	Total area	A	23.8 m ²	A of bridge surf. x 0.008	· · · · · · · · · · · · · · · · · · ·	
		01	2.4 m ²	L × 0.100	assumed as 10%	
	Girder	02	$14.3 m^2$	L × 0.600	assumed as 60%	
9		03	2.4 m ²	L × 0.100	assumed as 10%	
		01	0.7 m ²	L × 0.030	assumed as 3%	
	Crossbeam	02	$3.3 m^2$	L × 0.140	assumed as 14%	
		03	$0.7 m^2$	L × 0.030	assumed as 3%	
	Repaired area of deck		Quantity		Remarks	
	Divided area	A	701.4 m ²	Deck width = 8.4	m Deck width for pos. x sp	an length
10	Area of rebarb e	exposure	84.2 m ²	A × 0.120		
	Area of deck cra		434.9 m ²	A × 0.620		
5	Repair quanity of pylon & subst		Quantity		Remarks	-
11			5.54 m	per substructure		
	Rebar exposure		2.24 m ²	per substructure		
s.	Concrete barrier		Quantity	-	Remarks	
12	Rebar exposure		11.88 m ²	A of bridge surf. x 0.004		

Countermeasure classification of members

	r			•••••••••••••••••••••••••••••••••••••••		Bridge name		IRR South	Spar	1 No.	2
			Dan classif	nage ication	Ie					nage ication	e e
Member	No,	Damage	Classification	agbul	Countermeasure classification	Member	No.	Damage	Classification	Judge	Countermeasure
		Cracking, Water leakage, Free lime	а	-	5			Rebar exposure	a	-	5
	01	Rebar exposure	a		5		01	Pop-outs	а	-	5
		Damages at anchorage of PC tendon	a	· -	5			Deck cracking	с	-	3
		Cracking, Water leakage, Free lime	а	1	5			Rebar exposure	a	-	5
Girder	02	Rebar exposure	a	-	5	Deck	02	Pop-outs	a	-	5
		Damages at anchorage of PC tendon	а	-	5		i i	Deck cracking	a	-	5
		Cracking, Water leakage, Free lime	a	-	5]		Rebar exposure	a	-	5
	03	Rebar exposure	а	-	5			Pop-outs	a	~	5
		Damages at anchorage of PC tendon	а	-	5			Deck cracking	a	-	- 5
		Cracking, Water leakage, Free lime	а	-	5			Cracking, Water leakage, Free lime	а	3	5
	01	Rebar exposure	а	-	5	Substructure	01	Rebar exposure	a	-	5
		Damages at anchorage of PC tendon	а	-	5			Damages in substructures	a	-	5
		Cracking, Water leakage, Free lime	а	-	5	Road surface	Δ1	Level difference of road surface	a	~	5
Crossbeam	02	Rebar exposure	а	1	5	Road surface	01	Damages in pavemnents	a	-	5
		Damages at anchorage of PC tendon	a	1	5		01	Damages in barriers	a	-	5
		Cracking, Water leakage, Free lime	а		5	Barriers	02	Damages in barriers	a	-	5
	03	Rebar exposure	а	-	5	Railings		Damages in barriers	a	-	5
		Damages at anchorage of PC tendon	а	-	5		04	Damages in barriers	a	-	5
						Expansion joints		Damages in expansion joints	а		5

No. Damage No. Craoking/Water leakage/Free lime 01 Rehar coposure Damages at anchorage of FC tendon Craoking/Water leakage/Free lime 02 Rehar coposure 13 Craoking/Water leakage/Free lime 14 Craoking/Water leakage/Free lime 15 Rehar coposure 16 Damages at anchorage of FC tendon 17 Damages at anchorage of FC tendon 18 Rehar coposure 19 Rehar coposure 10 Rehar coposure 11 Damages at anchorage of FC tendon 12 Rehar coposure 13 Rehar coposure 14 Rehar coposure 15 Rehar coposure 16 Pop-outs 17 Pop-outs 18 Rehar exposure 10 Pop-outs 11 Damages in substructures 12 Damages in substructures 13 Damages in substructures 14 Damages in substructures 15 Damages in substructures 16 Damages in substructures 17 Damages in substructures 18 Damages in substructures	(1) <th< th=""><th>Approximate repa</th><th></th><th>IRR South</th><th>Ē.</th><th></th><th>Span No.</th><th></th><th>5</th><th></th><th></th><th></th><th></th><th></th><th></th><th>A CONTRACTOR OF A CONTRACT OF A CONTRACT</th><th></th></th<>	Approximate repa		IRR South	Ē.		Span No.		5							A CONTRACTOR OF A CONTRACT	
Number in the second of the second	Number of the sector	+			-						Ammumila	countermeas	ure 13	countermea classificatio	ure n 4	Planned repart reconstruction	* _
1 1	1 1				16	Dannie anałkad	Repair	C Dit	Approximate unit mice	Approximate repair price	repair price for countermeasure		Remaini ng years		Remaini ng years	Remit Duce	life
	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ž	х. 				quantity		(B)	(B)	1&2 (B)	(B)	up to counter measure	(B)	counter measure	(B)	cycle
											1		cl. 2		ci. 2		
				-			11 0	Ę	5 000	59.500			7		5		20
		-		6	<u>ر</u> ار	Resin injection Detabling	24	7	17,500	42,000			7		15	42,000	20
		6	act of	م .	n v	Reinforcement with external PC tendon		Pos.	1,000,000	. 1	•		' '			1	- 19
	0 0		Damages at anchorage of PC tendon			Resin injection	71.3	E	5,000	356,500	-	1		-		- 000 020	
				63		Datching	14.3	7	17,500	250,300			2		2	005/067	2
		2	19970-1	e 1	- 4	Tauring raternal PC tendon		Pos.	1,000,000	-			'		- - -	Ī	- 0
0Contained Contained (1)131311 <th< td=""><td></td><td></td><td>Damages at anchorage of PC tendon</td><td>2</td><td>- - -</td><td>Remote The Intertion</td><td>9.11</td><td>a</td><td>5,000</td><td>59,500</td><td>-</td><td>- -</td><td></td><td>'</td><td></td><td>-</td><td></td></th<>			Damages at anchorage of PC tendon	2	- - -	Remote The Intertion	9.11	a	5,000	59,500	-	- -		'		-	
				, ₇		Patching	2.4	"a	17,500	42,000	-	-					3
		<u>්</u>	55.01	а с	1	Reinforcement with external PC tendon	-	Pos.	1,000,000	-	-T	'	•				96
		+	Damages at anchorage of PC tenuon	9 9	2	Resin injection	3.6	Ħ	5,000	18,000		1	~ r		C 1 1	10 200	06
	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $, v	Patching	0.7	m2	17,500	12,300	' 	1	~		2		; '
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		-	Caller .	0 0	1~		•	Pos.	1,000,000			'	' '		' <u>'</u>		08
		1	Damages at ancnorage of FC teduoit	3 6	, v		16.6	E	5,000	83,000		•	- [•		57 800	30
		د 		¢ (1	<u> </u> ~	Patching	3.3	7 m	17,500	57,800		'					, '
		ت		a a	1	Reinforcement with external PC tendon		Pos.	1,000,000			'	' '				30
0.10 Contraction with relation			Lamages at ancnorage of routine	, ,	, 'r	Resin injection	3.6	ш	5,000	18,000	'	'	- "		2	12 300	90
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ć		- - -	2	Patching	0.7	m2	17,500	12,300	'	'			<u>-</u>	AUC 41	3
		<u>,</u>	19903	U (7		Reinforcement with external PC tendon		Pos.	1,000,000	1	'				' ¥		' 0°
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	+	Damages at anchorage of PC tenuon	a a	2	Patching	84.2	т ^а	17,500	1,473,500	'		,		-	1	
V Terrestrict a b Creating b a c a c a c a c a c a c a c a c a c a c a c	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				2	Patching & CFR		Pos.	10,000		-	- 105 205 0				005 582 6	50
	Refer exponse a 5 Pathing 84.1 1.750 $1.47.500$ $1.47.500$ $1.47.500$ $1.47.500$ 1.750		1.045	0	ŝ	CFR	434.9	a ⁷	22,500	9,785,300		nnc'ros' k			<u> </u>		30
		L	Rehar exposure	8	5	Patching	84.2	" E	17,500	1,4/3,000							ľ
				8	2	Patching & CFR	'	Pos	10,000	1000 300 0			1		25	9,785,300	50
Rebar exposure a 5 Patching 67.3 0.7	Rebar exposure a 5 Paching m^{-1} $m^$, 	diam'	60	2	CFR	434.9	- E	22,500	9, /82, 500			4		- 15		30
05 Properate a 5 Produing ACTR Post 1000 $2/75,300$ $2/725,300$ $2/725,300$ $2/725,300$ $2/725,300$ $2/725,300$ $2/725,300$ $2/725,300$ $2/725,300$ $2/725,300$ $2/725,300$ $2/725,300$	03 Phy-out a 5 Patching & CFR 434 m model mode		Rebar exposure	в	5	Patching	84.2	"B	000.11	1,4/5,200					·	1	'
Disk detailing a 5 CFR 434 n^2 2.230 2.7230 2.730 2.730 </td <td>Disk derivatives a 5 CFR. 434 m^2 2.200 $2.70.700$ -1 7 -1 15 -39200 Cracking/Water labuge/free line a 5 Patching 2.34 m^2 1.7500 39.200 -1 7 -1 15 -39200 0 Damage spin term a 5 Patching 2.34 m^2 1.7500 -2 -7 -7 -1 12 -2 -1 <</td> <td></td> <td></td> <td>a</td> <td>5</td> <td>Patching & CFR</td> <td>, ,</td> <td>_</td> <td>10,000</td> <td>000 301 0</td> <td></td> <td></td> <td></td> <td></td> <td>- 25</td> <td>9,785,300</td> <td>50</td>	Disk derivatives a 5 CFR. 434 m^2 2.200 $2.70.700$ -1 7 -1 15 -39200 Cracking/Water labuge/free line a 5 Patching 2.34 m^2 1.7500 39.200 -1 7 -1 15 -39200 0 Damage spin term a 5 Patching 2.34 m^2 1.7500 -2 -7 -7 -1 12 -2 -1 <			a	5	Patching & CFR	, ,	_	10,000	000 301 0					- 25	9,785,300	50
			0.00	a	5	CFR	434.9	_	000,22	002.001.6					- 15	'	
01 Redeat exponent a 5 Patching $2A$ M_1 $1DOO$ $2A$ A C <th< td=""><td>01 Refer exposure a 5 Pathing 2.24 n^4 1.700 -7 -7</td><td>+</td><td>Cracking/Water leakage/Free lime</td><td>a</td><td>5</td><td>Resin injection</td><td>40.0</td><td>_</td><td>17 200</td><td>20.700</td><td></td><td></td><td></td><td></td><td>- 15</td><td>39,200</td><td></td></th<>	01 Refer exposure a 5 Pathing 2.24 n^4 1.700 -7	+	Cracking/Water leakage/Free lime	a	5	Resin injection	40.0	_	17 200	20.700					- 15	39,200	
Images in substructures: a 5 Four protection - er / pit 1,70,000 - c 1 0 1 1 0 1 1 0 1 1 0 1 1	1 Damages in substructures a 5 Foct protection - art pit hold 1,30,000 - 5 7 1 1 1 1 1 228,000 - 1 1 1 228,000 - 1 1 1 228,000 - 1 1 1 1 1 228,000 - 1 <td></td> <td>78.7***</td> <td>a</td> <td>5</td> <td>Patching</td> <td></td> <td>, a</td> <td>1 750 000</td> <td>NA44 CC</td> <td></td> <td></td> <td></td> <td></td> <td>'</td> <td>1</td> <td>-</td>		78.7***	a	5	Patching		, a	1 750 000	NA44 CC					'	1	-
1 $\frac{1}{2}$ cond artface a 5 Pavement replacement a 5 a b a a a b a <	01 $\frac{1}{2}$ cvet infractore of road surface a 5 Pavement replacement m² $5,000$ 11,928,000 - 7 - 10 11,928,000 01 Damages in pavements a 5 same as above 2,385,6 m² 5,000 1,425,600 - 7 7 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 15 1,425,600 - 16 1,425,600 - 16 1,425,600 - 17 - 15 1,425,600 - 16 1,425,600 - 17 1 15 1,425,600 - 16 1,425,600		Damages in substructures.	å	5	Foot protection	ľ	er / pyl	000'001'1						- 10		20
01 Damages in parcuments a 5 same as above $2.355.6$ m^2 5.000 $1.25.600$ $-$ 7 7 $-$ 15 $1.425,600$ 01 Damages in barriers a 5 Patching 11.18 m^2 120,000 $1.425,600$ $-$ 7 $-$ 7 $-$ 15 $1.425,600$ 02 Damages in barriers a 5 Patching 11.18 m 120,000 $1.425,600$ $-$ 7 $-$ 15 $1.425,600$ 03 Damages in barriers a 5 Patching 11.18 m 120,000 $1.425,600$ $-$ 7 $-$ 17 $-$ 15 $1.425,600$ 03 Damages in barriers a 5 Patching 11.18 m 120,000 $1.425,600$ $-$ 7 $-$ 17 $-$ 17 $-$ 15 $1.425,600$ 0 Damages in barrietes a 5	01 Damages in premnents a 5 same as above $2.35.6$ m^2 5.000 $11.724,000$ $-$ 7 $-$ 1 $2.425,600$ 01 Damages in barriers a 5 Patching. 11.88 m^2 120,000 $1,425,600$ $-$ 7 $-$ 1 7 $-$ 1 7 $-$ 1 7 $-$ 1 3 $1,425,600$ 02 Damages in barriers a 5 Patching. 11.88 n 120,000 $1,425,600$ $-$ 7 $-$ 1 2 $1,425,600$ 03 Damages in barriers a 5 Patching. 11.88 n 120,000 $1,425,600$ $-$ 7 $-$ 1 7 $-$ 1 2 600 $1,425,600$ $-$ 7 $-$ 1 1 1 $75,600$ $-$ 1 $-$ 1 1 2 $1,425,600$ $-$ 7	┢	31123	a	5	Pavement replacement	 	_	000,0	000 000 11					- 10	11.928,000	20
Damages in burites a 5 Patching 11.88 n^2 120,000 1,425,600 - 7 - 15 1,425,600 Damages in burites a 5 Patching 11.88 n 120,000 1,425,600 - 7 - 15 1,425,600 Damages in burites a 5 Patching 11.88 n 120,000 1,425,600 - 7 - 15 1,425,600 Damages in burites a 5 Patching 11.88 n 120,000 1,425,600 - 7 - 15 1,425,600 Damages in burites a 5 Patching 11.88 n 120,000 1,425,600 - 7 - 15 1,425,600 Damages in burites a 5 restauxing - 7 - 15 1,425,600 Damages in equation joints a 5 r 1,235,600 - 7 7 -	Damages in burites a 5 Patching 11.88 n^2 120,000 1,425,600 - 7 7 - 15 1,425,600 Damages in burites a 5 Patching 11.88 n 120,000 1,425,600 - 7 7 - 15 1,425,600 Damages in burites a 5 Patching 11.88 n 120,000 1,425,600 - 7 7 - 15 1,425,600 Damages in burites a 5 Patching 11.88 n 120,000 1,425,600 - 7 7 - 15 1,425,600 Damages in burites a 5 Patching n 120,000 1,425,600 - 7 7 - 15 1,425,600 Damages in burites a 5 r 120,000 1,425,600 - 7 7 - 15 1,425,600 Damages in burites a 5			a	S	same as above	2,385.6		000,0	11,928,000					15	1 425 600	30
0. Damages in neurosci (1) a 5 Patching. 11.88 n 120,000 1,425,600 $ 1$ $ 1$ $ -$ <td>0.0 Damages in metanes a 5 Patching 11.88 n 120,000 1,425,600 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 $-$</td> <td>╀</td> <td>39 B 2</td> <td>e</td> <td>5</td> <td>Patching</td> <td>11.88</td> <td>_</td> <td>120,000</td> <td>1,425,600</td> <td></td> <td></td> <td></td> <td></td> <td>14</td> <td>1 475,600</td> <td>30</td>	0.0 Damages in metanes a 5 Patching 11.88 n 120,000 1,425,600 $ 7$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ 1$ $ -$	╀	39 B 2	e	5	Patching	11.88	_	120,000	1,425,600					14	1 475,600	30
0.2 Damages in barries a 5 Patching 11.88 n 120,000 1,425,600 - 7 - 12 - 12 - 12 - 12 - 12 - 12 - 12 1 - 12 1 - 12 1 - 12 1 - 12 1 - 12 1 - 12 1 - 1 - 1 - 1 - 1 - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 2 2 1 <th2< th=""> 2 1 2</th2<>	U2 Damages in harries a 5 Patching 11.88 n 120,000 1,425,600 - 7 - 12 12	<u>-</u> [`	THE OF	a	"	Patching.	11.88		120,000	1,425,600	1					003 304 4	200
03 Damages in contracts a 5 Patching. 11.88 n 120,000 1,425,600 - 7 - 13 n_1^4 -2,500 04 Damages in barriers a 5 Patching. 35.6 m 5,000 1,77,900 - 7 - 15 n_1^4 -2,5000 01 Damages in contacts a 5 change of steel exp. 35.6 m 5,000 177,900 - 7 - 15 n_1^4 -2,5000	O3 Damages in barriers a 5 Patching 11.88 n 120,000 1,425,600 - 7 - 13 n $-$ 13 n $-$ 13 n $-$ 13 $-$ 13 $-$ 13 $-$ 13 $-$ 13 $-$ 13 $-$ 13 $-$ 13 $-$ 177,900 $-$ 177,900 $-$ 7 $-$ 13 $ -$ 15 $ 177,900$ $-$ 7 $-$ 13 $ 177,900$ $ -$ 7 $-$ 13 $ 177,900$ $ 7$ $ 13$ $ 177,900$ $ 7$ $ 13$ $ 177,900$ $ 7$ $ 13$ $ 177,900$ $ 7$ $ 13$ $ 177,900$ $ 7$ $ 13$ $ 177,900$ $ 177,900$ $ 7$ $ 13$ <td>1</td> <td>1992 [1]</td> <td>, ·</td> <td></td> <td>Patching</td> <td>11.88</td> <td></td> <td>120,000</td> <td>1,425,600</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 125 100</td> <td>ŝ</td>	1	1992 [1]	, ·		Patching	11.88		120,000	1,425,600						1 125 100	ŝ
Usanages in expansion joints a 5 change of steel exp. 35.6 m 5,000 177,900 - 7 - 15 717,900 Danages in expansion joints a 5 change of steel exp.	Ustranges in expansion joints a 5 change of steel exp. 35.6 m 5,000 177,900 - 7 - 15 717,900 Damages in expansion joints	<u>_</u>	2 U II	5 . M (6)	۰ ۲	Patchine	11.88	ļ	120,000	1,425,600	-				-	1,423,000	-
Damages in expansion/onus a 2 change of sect exp	Damages in expansion joints a 2 change of sect exp	+		a 1			35.6		5.000						- 15	177,900	
			and a series	8	0	change of steel exp.											

Inspecton result															Span 1	√o.		3
		Dama	ges of s	teel me	embers	E	Damage	s of co	ncrete r	nember	rs			Otl	hers			
		Corrosion	Cracking	Missing bolts	Fracture	Cracking, Water leakage, Free lime	No.	Rebar exposure	Pop-outs	Deck cracking	Damages at anchorage of PC tender	Level difference of road surface	Functional damage of bearings	Damages in substructures	Damages in pavennents	Damages in expansion joints	Damages in cable	Remarks
	01	a	a	а	а													•••••••••••••••••••••••••••••••••••••••
Girder	02	a	a	a	a													
ŀ	03	a a	a a	a a	a a										and a second		r.	· · · ·
	04	a	a	<u>a</u>	a					enter a superior de la companya de l Companya de la companya		in the second	d webber	in an				
Crossbeam	02	a	a	a	a							in the second						
	03	a	a	a	a													
	01							а	а	а	а							
	02							a	а	a	a			100.00 ⁰ .0.11				
Deck	03							a	a	a	a							
, l	04		36					a	a	a	a	6						
	05		de estat					a	a	a	a			9, 25 9			4	
Main tower	01 02	S. Links	1		C. L. O. L	С		a	and and a		a			а				
	02	Manager and				С		a			a e			a		e a da ba	N B CONTRACTOR	
cable	02	an an an			tanati Santa tanàn	la suest sue l'arte d'arte			1		e		en protected Reported		Start -			
	101					NC 2000							a					
, ł	102				AND AND AND				and the second se				a					
r t	103			1									a					
Bearings	104			4									а					
Dearings	201	D.											а					
	202	- 1996 											а					
, i	203								i a sta				a					
	204	Neget June			and the second	a. Carlo				and the second			a					
Road surface		en kontent		la se se s								a						
Pavement	01														a	a		
Barriers	01											1997. 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997				a a	Providence and Providence	
Railings	02		a ann	de geografia			an a					dra.)				a		
nannga	04	Autor Monteres	and the second second	Control (CT) Solution	and the second second	CONTRACTOR OF CASE	And the second second		901200200000000000000000000000000000000	and hydrograms (1999)		CONSTRUCTION OF THE OWNER	include the second	THE PROPERTY OF THE PROPERTY O		a	2010/02/07/02/02	

Esti	mation of	f repair quan	tity							
Brid	lge name			0	12 IRR S	lorth			Span No.	3
	<u> </u>	Subject			Qu	antity			Remarks	
1	Span len	gth			39	8.0 m		Length of 1 span		
2	Road wi	dth for paven	ıent		28	.57 m		Width for pavement	nt area (Vehicle lane)	
3	Total roa	nd width			35	.57 m		Deck width		
4	Area of	oridge surfac	e		14,15	6.9 m ²		Span length x Tota	al width	
5	Area of	pavement			11,37	$0.9 m^2$		Span length x Wid	ith for pavement	
				01	co	ncrete		Type of barriers &	: railings	
,	L.	0 11		02	co	ncrete		Same as above		
6	Barriers	& railings		03	co	ncrete	2	Same as above	· · · · · · · · · · · · · · · · · · ·	
				04	co	ncrete		Same as above		
				01		steel		Type of expansion	joint	
7	Expansi	on joints		-		-		Same as above		
•	Painting	; area		Girder neight	Number of members	Coeffici	ent	Painting area	Remarks	
	Girder	01~04		3.200	1	1.300)	3,320.0 m ²		
8		01		3.200	1	1.100)	260.0 m ²		
	Crossb	02		3.200	74	1.100)	18,540.0 m ²		
	eam	03		3.200	1	1.100)	$260.0 m^2$		
	Repaire	d area of dec	k		Qua	ntity			Remarks	
0	Div	ided area	•	A ·	2,8	31.4 m^2		5 Division		
9		Area of reba	rb e	xposure	3.	39.8 m ²	A	× 0.120		
		Area of decl	c cra	icking	1,7	55.5 m ³	А	× 0.620		·
	Repair qu	anity of pylon &	subst	ructure	Qua	ntity		1	Remarks	
10	Crac	king, Water leak	age, l	Free lime		5.54 m	-	r substructure		
	Reb	ar exposure				$2.24 m^2$	per	r substructure		
. .	Concre	te barrier				intity		· · · · · · · · · · · · · · · · · · ·	Remarks	
11	Rel	oar exposure			5	6.63 m ²	Α	of bridge surf.x 0.004	· · · ·	

Estimation of repair quantity

					012 IRR S	01111		Span No.			3
				nage ficatio						nage ficatio n	
Member	No.	Damage	Classification	Judge	Countermeasure classification	Member	No.	Damage	Classification	Judge	Countermeasure classification
		Corrosion	а	-	5			Rebar exposure	a	<u> </u>	5
	01	Cracking	а	-	5		03	Pop-outs	a		5
	Ŭ.	Missing bolts	а	-	5		03	Deck cracking	a	-	5
		Fracture	а	-	5			Damages at anchorage of PC tendon	a		5
		Corrosion	a	·	5			Rebar exposure	a	-	5
	02	Cracking	a	-	5	Deck	04	Pop-outs	a	-	5
	°	Missing bolts	a	-	5	Deck	04	Deck cracking	а	-	5
Girder		Fracture	а	-	5			Damages at anchorage of PC tendon	а		5
ondor		Corrosion	a	-	-5			Rebar exposure	а	-	5
	03	Cracking	a	-	5		05	Pop-outs	а		5
	5	Missing bolts	а	-	5		05	Deck cracking	а	- *	5
		Fracture	а	-	5			Damages at anchorage of PC tendon	а	-	5
		Corrosion	a	-	5			Cracking, Water leakage, Free lime	С	3	3
		Cracking	а	-	5		01	Rebar exposure	а	-	5
	Ŭ,	Missing bolts	a	-	5	Main tower		Damages at anchorage of PC tendon	а	_	5
		Fracture	а	-	5	Main tower		Cracking, Water leakage, Free lime	с	- 3	3
		Corrosion	а	-	5			Rebar exposure	а	-	5
· .		Cracking	а	-	5.			Damages at anchorage of PC tendon	а	-	5
		Missing bolts	а	j - 1	5	C-11-		Damages at anchorage of PC tendon	е	-	2
		Fracture	а	-	5	Cable	02	Damages at anchorage of PC tendon	е		2
		Corrosion	a	-	5			Functional damage of bearings	а	-	5
Crossbeam		Cracking	а	-	5			Functional damage of bearings	а	-	5
ciossocalii	°~ [Missing bolts	a		5		103	Functional damage of bearings	a	_	5
l		Fracture	a	-	5	Bearings		Functional damage of bearings	a	·	. 5
		Corrosion	a	-	5	Dearings	201	Functional damage of bearings	а	-	5
		Cracking	a	-	5			Functional damage of bearings	a	-	5
	Ű	Missing bolts	а	-	5			Functional damage of bearings	a	-	5
		Fracture	a	-	5		204	Functional damage of bearings	a	_	5
		Rebar exposure	a	-	5	Road	01	Level difference of road surface	a	-	5
		Pop-outs	a	-	5	surface	01	Damages in pavemnents	a	-	5
		Deck cracking	a	-	5			Damages in barriers	a	·	5
Deck		Damages at anchorage of PC tendon	а	· -	5	Barriers		Damages in barriers	a		5
DECK		Rebar exposure	а	-	. 5	Railings		Damages in barriers	a	-	5
1. 1.		Pop-outs	a	-	5			Damages in barriers	a	_	5
	V4	Deck cracking	a	-	5						
		Damages at anchorage of PC tendon	a		5						

Countermeasure classification of members

3ndge name		0121	RR Se	orth		Span No.		3			countermeas	ure I	countermeat	aure	Planned repai	F &
Member	No.	Damage	Damage classification	Countermeasure	Repair methad	Repair quantity	Unit	Approximate unit price (B)	Approximate repair price (B)	Approximate repair price for countermeasure classification 1 & 2 (B)	Repair price (B)	n Remaini ng years up to counter measure cl. 2	riassificati Repair price (B)	Remaini ng years up to counter measure cl. 2	Repair price (B)	en Life ayale
		Corresion	<u><u></u></u>	5	Repainting	3,320.0		3,500	11,620,000			5		10	11,620,000	20
	01	Cracking	a	5	Reinf, with steel pl.		Pos,	166,700		-			······	-	-	
		Missing bolts	a	5	Bolt change for splice pl.		Pos.	133,400								
		Fracture Corrosion	u a	5	Reinf, for fracture Renainting	3,320.0	ros.	3,500	11,620,000			5	-	10	11,620,000	20
	02	Cracking	6	5	Reinf, with steel pl.		Pos.	166,700	-	·	-					- ·
	02	Missing bults	a	5	Bolt change for splice pl. Reinf, for fracture	-	Pos. Pos.	133,400		<u> </u>		<u> </u>				+
Girder		Fracture Corroston	a	1 3	Repainting	3,320.0		3,500	11,620,000	-	-	5	•	10	11,620,000	20
	03	Cracking	a	5	Reinf, with steel pl.	L	Pos.	166.700				· · · ·	······		+	
		Missing bolts	a	5	Bolt change for splice pl. Reinf, for fracture	[Pos. Pos.	133,400							-	+
		Fracture	a	5	Repainting	3,320.0	m ²	3,500	11,620,000	-		5		10	11,520,000	20
	04	Cracking	a	5	Reinf, with steel pl.	· · ·	Pos,	166,700						<u></u>	-	
	۳.	Missing bolts Frachtre	a	5	Bolt change for splice pl. Reinf, for fracture		Pos. Pos.	133,400						t 🗄	-	$\pm $
	<u> </u>	Corrosion	a	5	Repainting	3,320.0	m ²	3,500	11,620,000	•		5		10	11,620,000	20
	01	Cracking	a	5	Reinf, with steel pl. Bolt change for splice pl.		Pos. Pos.	166,700 133,400	-			<u> </u>		÷	<u> </u>	
		Missing bolts Fracture	8 8	3	Reinf. for fracture		Pos.	166,700					-		•	-
		Corrusion	a	5	Repainting	3,320.0	m ²	3,500	11,620,000	·	-	5		10	11,620,000	20
Crossbeam	02	Cracking	a			+	Pos. Pos.	166,700				<u> </u>				+
	1.	Missing bolts Fracture	a	5	Belt change for splice pl. Reinf, for fracture		Pos.	166,700		-	-	· ·	-	-	-	
		Corresiel	В	5	Repainting	3,320.0		3,500	11,620,000			5		10	11,620,000	20
	03	Cracking Missing bolts	a	5	Reinf, with steel pl. Bolt change for splice pl.		Pos. Pos.	166,700							-	+
		Fracture	a	5	Reinf, for fracture	-	Pos.	166.700	-	-	-			-	-	
Work stand w	vorker		_	Τ.		14,156.9		3,000	42,470,600 5,946,500			7		15	42,470,600	. 30
		Rebar exposure Pop-ouls	a	5	Patching Patching & CFR		Pos.	10,000	3,940,300			- ÷	-	-	-	
	01	Deckorsoking	8 a	5	CFR	1,755.5	¹	22,500	39,498,800			7		15	39,498,800) સ
		Damages at anchorage of PC tendon	a			339.8	Pos.	45,000	5,946,500			+ 7		15		30
		Rebar exposure Pop-outs	- 4		Patching & CFR	-	Pos.	10,000	-			-	-	-	-	
	02	Deak cracking	្តី អ	5	CFR	1,755.5		22,500	39,498,800	-		7		15	39,498,800	30
		Damages at anchorage of PC tendon Rebar exposure	<u>a</u>		CFR (upper & bottom) Patching	339.8	Pos.	45,000	5,946,500	+÷		7		15		- 30
Deck	03	Pop-outs	a		Putching & CFR	-	Pos.	10,000	-	1		:		·	-	<u> </u>
Deck	03	Deck oracking	8		CFR	1,755.5	Pos.	22,500 45,000	39,498,800			7		15	39,498,800	0 31
		Damages at anchorage of PC tendon Rebar exposure	a			339.8		17,500	5,946,500		-	7		15		- 31
	04	Pop-outs	8	5	Patching & CFR		Pos.	10,000	-			7		15	39.498.800	0 3
	1	Deck gracking	2 2			1,755.5	Pos.	22,500	39,498,800						1212122 324 301000	-
	-	Damages at anchorage of PC tendon Rebar exposure	B	5	Patching	339.8	m²	17,500	5,946,5(0)	-		7		15		- 31
	05	Pop-outs	a B		Patching & CFR CFR	1,755.5	Pos.	10,000	39,498,800			7		15	39,498,800	0 3
		Deck cracking Damages at anchorage of PC tendon	<u>п</u> в			1,733.3			-	-						-
	1-	Cracking, Water leakage, Free lime	c	3	Resin injection	5,54		5,000	27,700		27,700	7		15		- 3 0) 3
	01	Rebar exposure Damages at anchorage of PC tendon	56 B B			2.24	Pos.	17,500	39,200			<u>+</u>				-
Main tower		Cracking, Water leakage, Free lime	C C	_		5,54	m	5,000			27,700			- 15		- 3
6 B. 1	02	Rebar exposure.	a	5	Patching	2.24		17,500				1		- 15	39,200	0 3
	01	Damages at anchorage of PC tendon Damages at anchorage of PC tendon	e a			1.0								-	·	-
Cable	02	Damages at anchorage of PC tendon	C	2	CFR (upper & bottom)	1.() Pos.						ļ			0 3
	101	Functional damage of bearings Punctional damage of bearings	a a			1.0) Pos.) Pos.					7		- 15	120,004	0 3
1.1		Functional damage of bearings	2 u 2 a	1	Metal spraying	1.0) Pos.	120,000	120,000	-		- 7		- 15		
Bearings	104	Functional damage of bearings	20 B		Metal spraying	1.0						- 7		- 15		
	201	Functional damage of bearings	a a				Pos.		120,000	-		- 7		- 15	120,00	0 3
1	203	Functional damage of bearings	a a		Metal spraying	1.1) Pos	120,000	120,000	-	ļ	- 7		- 15		0 3
	204	Kunstional damage of bearings	2 105 4		Metal spraying	1.		120,000				- 7		- 10		- 3
Road surface	01	Level difference of road surface Damages in pavements	联 a 部: a			11,370.		5,000	56,854.300	-		- 5		- 10	56,854,30	0 2
	01	Damages in burriers	a		Patching	56.6						- 7		- 15 - 15		
Barriers	02	Damages in barriers	a S a		Patching	56.6					<u>+</u>	÷ ,	<u>+</u>	- 15	991,10	0 3
Railings	103	Damages in barriers Damages in barriers	20 a			56.6						- 7		- 15	991,10	0 3

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Inspecton resul	t														Span N	ło,		4
·		Dam	ages of	steel me	mbers		Damag	ges of co	ncrete n	nember	s			Ot	hers			
		Corrosion	Cracking	Missing bolts	Fracture	Cracking, Water leakage, Free lime	No.	Rebar exposure	Pop-outs	Deck cracking	Damages at anchorage of PC tender	Level difference of road surface	Functional damage of bearings	Damages in substructures	Damages in pavennents	Damages in expansion joints	Damages in cable	Remarks
	01		riter wonner		in the second	a		a			a		H					
Girder	02					a		a			a		1					
	03					a	f	a			a						4	
Crossbeam	01					a		a	Marine Street		a							
Clossbeam	02		a parte de la composición de			a		a			a							
	01			1		a		a			a							
Deck	02				and second second	dia	Course and	a	<u>a</u>	С							• •	
	03					ante d'al de la com		a	a	a	Rendressin G						je .	· · · · · · · · · · · ·
cable	01						inite in spins	a	a	С		e e			Arrent of	AN IN THE R	i kan	
Pier	01		100 A			a		a		provide The second se	a	ar Arristan (1997)						
Road surface		6.1.1.1.1	Backer of Land				n offensile and the	a			Geographic and a State of the State of the S			Salar and a	aladi di d			
Pavement										1. (1) 1		a				a dana		
	01		a an cheanailte Martinite												a			
Barriers	02			a and a second second							Mildren og		and a second second			<u>a</u>		
Railings	03				19 (19 (19 (19 (19 (19 (19 (19 (19 (19 (and second and		entral contract Alexandra de la contracta de la Contracta de la contracta de la	a posses States - Ma						a		
-	04						aper preference and a state of the state of the	Grad Apple State								a a		

Estimation of repair quantity

	imation of repair quantit			Snan No 4
Bric	lge name	10	2 IRR Sorth	
<u> </u>	Subject		Quantity	Remarks
1	Span length		83.50 m	Length of 1 span
2	Road width for pavement		28.57 m	Width for pavement area (Vehicle lane)
3	Total road width		35.57 m	Deck width
4	Area of bridge surface		2,970.1 m ²	Span length x Total width
5	Area of pavement		2,385.6 m ²	Span length x Width for pavement
÷		01	concrete	Type of barriers & railings
6	Barriers & railings	02	concrete	Same as above
6	Barriers & rainings	03	concrete	Same as above
		04	concrete	Same as above
		01	steel	Type of expansion joint
7	Expansion joints	-	-	Same as above
	Crack length		Quantity	Remarks
	Total crack length	L	118.8 m	A of bridge surf. x 0.040
		01	11.9 m	$L \times 0.100$ assumed as 10%
	Girder	02	71.3 m	$L \times 0.600$ assumed as 60%
8		03	11.9 m	$L \times 0.100$ assumed as 10%
		01	3.6 m	$L \times 0.030$ assumed as 3%
	Crossbeam	02	16.6 m	$L \times 0.140$ assumed as 14%
		03	3.6 m	$L \times 0.030$ assumed as 3%
	Area of rebarb exposure		Quantity	Remarks
	Total area	A	23.8 m ²	A of bridge surf. x 0.008
		. 01	2.4 m ²	$L \times 0.100$ assumed as 10%
ļ	Girder	02	14.3 m^2	$L \times 0.600$ assumed as 60%
-9		03	2.4 m ²	$L \times 0.100$ assumed as 10%
		01	0.7 m ²	$L \times 0.030$ assumed as 3%
	Crossbeam	02	3.3 m ²	$L \times 0.140$ assumed as 14%
		03	0.7 m ²	
	Repaired area of deck		Quantity	Remarks
	Divided area	A	701.4 m ²	Deck width = 8.4 m Deck width for pos. x span length
10	Area of rebarb	exposure	84.2 m ²	A × 0.120
	Area of deck cr		434.9 m ²	A × 0.620
	Repair quanity of pylon & subs		Quantity	Remarks
11			5.54 m	per substructure
	Rebar exposure		2.24 m ²	per substructure
	Concrete barrier		Quantity	Remarks
12	2 Rebar exposure		11.88 m^2	A of bridge surf. x 0.004
L			<u>l</u>	

Countering	T	re classification of members				Bridge name		012 IRR Sorth	Spa	n No.	4
				nage ication	ల					nage ication	
Member	No.	Damage	Classification	Judge	Countermeasure classification	Member	No.	Damage	Classification	Judge	Countermeasure
		Cracking, Water leakage, Free lime	а	-	5			Rebar exposure	a		5
	01	Rebar exposure	а	-	5		01	Pop-outs	a		5
		Damages at anchorage of PC tendon	а	-	5			Deck cracking	с	-	3
		Cracking, Water leakage, Free lime	а	-	5			Rebar exposure	a		5
Girder	02	Rebar exposure	a	-	5	Deck		Pop-outs	а	-	5
		Damages at anchorage of PC tendon	а	-	5			Deck cracking	а	-	5
		Cracking, Water leakage, Free lime	а	· -	5]		Rebar exposure	а	-	5
	03	Rebar exposure	a	-	5 . •		03	Pop-outs	a	-	5
		Damages at anchorage of PC tendon	а	-	5			Deck cracking	с		3
		Cracking, Water leakage, Free lime	а	-	5			Cracking, Water leakage, Free lime	с	3	3
	01	Rebar exposure	a	-	5	Substructure	01	Rebar exposure	a		5
		Damages at anchorage of PC tendon	a	-	5			Damages in substructures	a	-	5
		Cracking, Water leakage, Free lime	а	-	5	Dani	01	Level difference of road surface	a	-	5
Crossbeam	02	Rebar exposure	а	-	5	Road surface	01	Damages in payemnents	а	-	5
		Damages at anchorage of PC tendon	а	-	5		01	Damages in barriers	а	-	5
		Cracking, Water leakage, Free lime	а	-	5	Barriers		Damages in barriers	a	-	5
		Rebar/exposure	a	-	5	Railings	the second second	Damages in barriers	a		5
		Damages at anchorage of PC tendon	a	-	5			Damages in barriers	a		5
						Expansion joints	-	Damages in expansion joints	a		5

	8 -	cycle Cycle	9 8		30	3,	30	30	- 6	207	, 1	30	30	'	<u>8</u>	8	- 07 707	۲ ۱	50	30	1 2	2	R '	50	30	30	' ह	३१	30	20	8	8	nc l					
	Plamed repair & reconstruction	Ropar price (B)	- 42 000		1 000 020	006.962	-	42,000	1	- 13 200	- ANC 4 T		57,800	1		12,300	•	1	9,785,300	1	1	9, /85,500	1 1	9,785,300	-	39,200	1	- 000 000 11	100.326,11	1,425,600	1 425 600	1 495 600	000 CZH*1 >					
	nure n 4	and the state	5 5	<u>}</u>	15	¢I '	15	15	· ,	C 2		15	15	'	15	15	15	1	25	15	1	25	<u> </u>	25	15	15	' '		10	<u></u>	╞	2	2					
	countermeasure classification 4	Repair price (B)			1		1		•	'			1	1	1	1	1		1		1	1			1		1	'	1				'					
	arre n 3	Remaini ng years up to counter measure cl. 2	-	-	7		7	7				' ^L	7	,	7	2	' '		12	7	ł	12	, '	12		7		5			- r							
	countermeasure classification 3	Repair price (B)	•					•		'			1		1	T	1	•	9.785.300		1	1		9,785,300	27,700			'	'				-					
	Ammximate	rapair price for countermeasure classification 1 & 2 (B)	•		ľ				1				1		1	1	'	'		'	1	'					-		'	-	'	'	'					
			59,500	42,000	356,500	250,300	2005 65	42,000		18,000	12,300	- 000 28	57,800		18,000	12,300		1,473,500	0 785 300				1,473,500		27.700				-		1,425,600		1,425,600					
	r	Approximate unit price (B)	5,000	1.000.000	5,000	17,500	1,000,000	17.500	1,000,000	5,000	17,500	1,000,000	17 500	1.000.000	5,000	17,500	1,000,000	17,500	77 500	17.500	10,000	22,500	17,500	22,500	2000	17,500	Ц		5,000	120,000	120,000	120,000	120,000					
	ž	Unit	a	Pos	В	m²	Fos.		Pos.	Е	2 ⁷ 0	Pos.	1	Pos.	E	m2	Pos.	~e,	Pos.	E "I	Pos.	m²	7 8 4	105.	E	1 ⁻¹ 8	Pier / pylon	m²	ч Ш	۳ ³	"	=	"					
Snan No		Repair quantity	11.9	2.4	71.3	14.3	- 0 11	2.4		3.6	0.7		3.3	r., '	3.6	0.7	,	84.2	A3A 0	842		434.9	84.2	434.0	C+C+	2.24	-		2,385.6	11.88	11.88	11.88	11.88					
		Repair method	Resin injection	Patching Drinforcement with external DC tendon	Resin injection	Patching	Reinforcement with external PC tendon	Resin injection Datching	inforcement with external PC tendon	Resin injection	Patching	Reinforcement with external PC tendon	Kesm injection	r autumg Deinforrement with external PC fendon	Resin injection	Patching	Reinforcement with external PC tendon	Patching	Patching & CFR	Datchino	Patching & CFR	CFR	Patching	Patching & CFR	D. criminan	Patchine	Foot protection	Pavement replacement	same as above	Patching.	Patching.	Patching.	Patching.			ì		
		Countermeasure				5	+	2	5 Rei	+	5	+		╉	14	n ivi		5	2	n 4	n vo	5	5	5	n (- 	n vn	2	S	2	.5	5	S					
		noitsoftizzatio agemeC		a	73 A	5 6	8	8	77 FC	8	a	в	B	, 5 , 5	7 a	5 73		в	ca I	о (τ π	9	в	a	ပ	с ,	5 03	8	а	a	a	a	63					
Approximate repair price for countermeasure		Сападе	Cracking/Water leakage/Free lime	Rebar exposure	Damages at anchorage of PC tenton	Clauming ward house of two many Rebar exposure	Damages at anchorage of PC tendon	Cracking/Water leakage/Free lime	Rebar exposure	Cracking/Water leakage/Free lime	Rebar cyposure	Damages at anchorage of PC tendon	Cracking/Water leakage/Free lime	Rebar exposure	Damages at anchorage of PC tenuon	Crackurg water reakage/r.rcc.muc Rehar expositio	Damages at anchorage of PC tendon	Rebar exposure	Pop-outs	Deck cracking	Rebar exposure	r op-ous Deck cracking	Rebar exposure	Pop-outs	Deck cracking	Cracking/Water leakage/Free lime	Reoarex exposure Damages in substructures	I evel difference of road surface	Damages in pavenments	Damages in barriers	2 24,000	1000	100-20	"				
te repair t		No	Ī	5		8			3	T	10			8		3	3		10		3	3		3			in laim	+	ice 01	5	07	8	8	-				
Approximat	Bridge name	Member				Girder								Crossbeam	-	26	6				- teeC	48A		-			amostructure		Road surface		Barriers	Railings	0					
						-					,						•										•					-						

Inspecton result		ممصحالي													Span N	√o.		5
		Dam	ages of :	steel me	mbers	L	Damag	es of co	ncrete r	nember	s			Ot	hers			
		Corrosion	Cracking	Missing bolts	Fracture	Cracking, Water leakage, Free lime	No.	Rebar exposure	Pop-outs	Deck cracking	Damages at anchorage of PC tender	evel difference of road surface	Functional damage of bearings	Damages in substructures	Damages in pavemnents	Damages in expansion joints	Damages in cable	Remarks
	01					a	1	a			a		L 14	1				<u> </u>
Girder	02		a de la composition de			а		а			a							· · · · · · · · · · · · · · · · · · ·
	03					a		a			а							
<u> </u>	01		and the second			a	en an	a			a							
Crossbeam	02				, see	a		a			а						an 17, 11,	
	03					a		a			a							
Deck	01		<u> </u>	1		6		a	a	c								
Deck	02	al and a second					and the second	a	a	a					Constant Sector			
cable	03	and the second						8	а	C				-				
	01										e							
Pier	01		and a state of the second	al at a se	1. 	С		a		1.1.1941 - 22	6	s.,	all an and	C.,				
Road surface	<u></u>			1		C		<u>a</u>		and the second								
Pavement					h			ingeneration (Construction) And the Construction of the Constructi			general de la compañía	a	1					
	01		and a star						19 19					Service 1	a	No. and	1997 (N. 1997) 1997 - 1997 (N. 1997)	
Barriers	01	anten de	2010 A. 1975	1000	all and a second se				240 1940 (1940)		4	242.0.1012.0				a	a de la compañía de la	
Railings	02			1		1										a		
i uninga	04	annar saint Saintean	Searchard (1995)	24												а		
Expansion						and a second				and Sound of						a	A March 1	
joints	01		N. A.														.a:	

Estimation of repair quantity

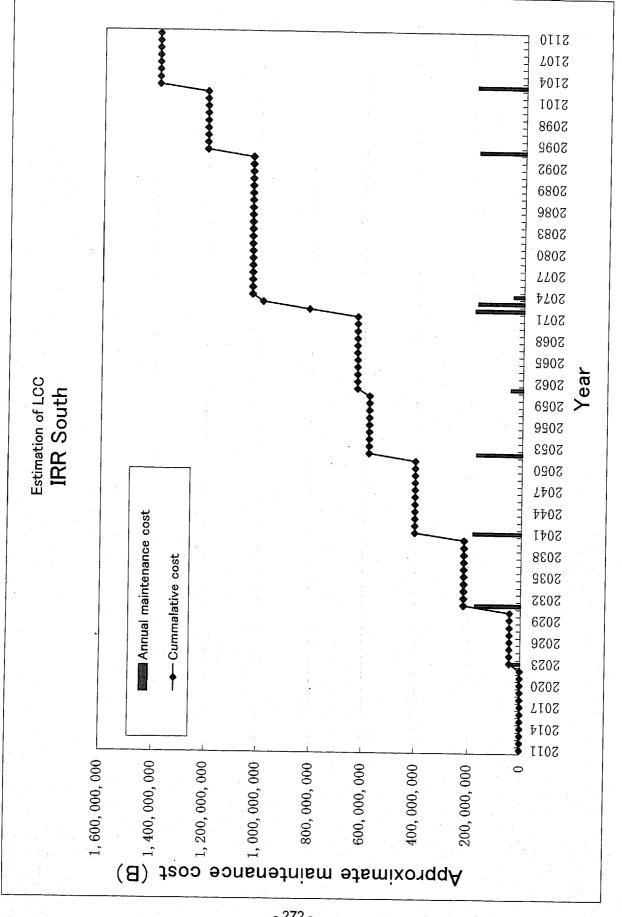
Bri	dge name	. (012 IRR Sorth	Span No. 5
	Subject		Quantity	Remarks
1	Span length		50.63 m	Length of 1 span
2	Road width for pavement		29.00 m	Width for pavement area (Vehicle lane)
3	Total road width		35.80 m	Deck width
4	Area of bridge surface		1,812.6 m ²	Span length x Total width
5	Area of pavement		1,468.3 m ²	Span length x Width for pavement
		01	concrete	Type of barriers & railings
6	Barriers & railings	02	concrete	Same as above
	barriers & rannigs	03	concrete	Same as above
		04	concrete	Same as above
7		01	steel	Type of expansion joint
7	Expansion joints	-	-	Same as above
	Crack length		Quantity	Remarks
	Total crack length	L	72.5 m	A of bridge surf. x 0,040
		01	7.3 m	$L \times 0.100$ assumed as 10%
8	Girder	02	43.5 m	L × 0.600 assumed as 60%
.0		03	7.3 m	$L \times 0.100$ assumed as 10%
		01	2.2 m	L × 0.030 assumed as 3%
	Crossbeam	02	10.2 m	$L \times 0.140$ assumed as 14%
		03	2.2 m	$L \times 0.030$ assumed as 3%
	Area of rebarb exposure		Quantity	Remarks
	Total area	A	14.5 m^2	A of bridge surf.x 0.008
		01	$1.5 m^2$	$L \times 0.100$ assumed as 10%
9	Girder	02	8.7 m ²	$L \times 0.600$ assumed as 60%
		03	$1.5 m^2$	$L \times 0.100$ assumed as 10%
		01	0.4 m ²	$L \times 0.030$ assumed as 3%
	Crossbeam	02	2.0 m ²	$L \times 0.140$ assumed as 14%
		03	0.4 m ²	$L \times 0.030$ assumed as 3%
	Repaired area of deck		Quantity	Remarks
10	Divided area	A	425.3 m ²	Deck width = 8.4 m Deck width for pos. x span length
10	Area of rebarb ex	posure	51.0 m ²	A × 0.120
	Area of deck crac	cking	263.7 m ²	A × 0.620
	Repair quanity of pylon & substr	ucture	Quantity	Remarks
11	Cracking, Water leakage, F	ree lime	5.54 m	per substructure
	Rebar exposure		$2.24 m^2$	per substructure
12	Concrete barrier		Quantity	Remarks
12	Rebar exposure		$7.25 m^2$	A of bridge surf. x 0,004

Counterm	easu T	re classification of members				Bridge name		012 IRR Sorth	Spa	n No.	5
				nage ication	Ð					nage ication	
Member	No.	Damage	Classification	Judge	Countermeasure	Member	No.	Damage	Classification	Judge	Countermeasure
		Cracking, Water leakage, Free lime	a	-	5			Rebar exposure	<u> 0 </u>	5-	5
	01	Rebar exposure	а	-	5	1	02	Pop-outs	a		5
		Damages at anchorage of PC tendon	а	-	5	D1-		Deck cracking	a		5
<u></u>		Cracking, Water leakage, Free lime	a		5	Deck		Rebar exposure	a		5
Girder	02	Rebar exposure	a	-	5	1	03	Pop-outs	 a		5
		Damages at anchorage of PC tendon	а	~	5	1	1	Deck gracking	c		3
		Cracking, Water leakage, Free lime	a	-	5	cable	01	Damages at anchorage of PC tendon	e		2
	03	Rebar exposure	а	-	5			Cracking, Water leakage, Free lime	с		3
		Damages at anchorage of PC tendon	a	-	5		01	Rebar exposure	a	-	5
	~	Cracking, Water leakage, Free lime	а	-	5	Substructure		Damages in substructures	a		5
		Rebar exposure	a	-	5	Substructure		Cracking, Water leakage, Free lime	c		3
		Damages at anchorage of PC tendon	а	-	5		02	Rebar exposure	a		5
Crossbeam	0.0	Cracking, Water leakage, Free lime	а	-	5			Damages in substructures	a		5
Crossbeam	02	Rebar exposure	а	-	5	Road surface		Level difference of road surface	a	-	5
		Damages at anchorage of PC tendon	а	· -	5			Damages in paverments	а	~	5
	0.2	Cracking, Water leakage, Free lime	а		5		01	Damages in barriers	a		5
		Rebar exposure	a	-	the second s	Barriers	02	Damages in barriers	а	-	5
		Damages at anchorage of PC tendon	a			Railings	03	Damages in barriers	a		5
Deck		Rebar exposure	a	-	5		04	Damages in barriers	a		5
DUCK		Pop-outs	a		5	Expansion joints		Damages in expansion joints	а	-	5
-		Deck cracking	С	- · .	3						

Bridge name		012	012 IRR Sorth	4	Guar	Span No.	v								
					mdo				Approximate	countermeasure classification 3	ure 13	countermeasure classification 4	ure n 4	Planued repair & reconstruction	रु द
Member	ġ	Damage	Damage classificatio	Reparimethod	Repair quantity	Unit	Approximate unit price (B)	Approximate repair price (B)	repar price for countermeasure classification 1 & 2 (B)	Repair price (B)	Remaini ng years up to counter measure cl. 2	Repair price (B)	Remaini ng years up to counter measure cl. 2	Repeir price (B)	Life cycle
		Cracking/Water leakage/Free lime	a	Resin injection	7.3	н	5,000	36,500	•	1	2	1	15	1 000	30
	01	朝代	a 5	Patching	1.5	² ۳,	1 200 200	26,300	'	' 	-	•	5	26,300	50
	Д	E	a 5	Reinforceme		Pos.	1,000,000		'	1	• •	•		1	50
		leakage/Free lime	+	Re	43.5	8	5,000	217,500		1		• •	2 2	152300	208
Grder	88 (23		+	Domestic Participation Provided Provide	· ·	Doc	1 000 000	-		'	•		2 I		
		5	+	5 Rentorcement with exemitian r version 5	7.3	ŝ E	5.000	36.500		-	7	,	15	1	30
	8 8	Gracking/Water reakage/rice inne Rebar exposire	2 63 7 7		1.5	1 ⁷ E	17,500	26,300		-	2	1	15	26,300	30
		Damages at anchorage of PC tendon	+-	┝	'	Pas.	1,000,000	-	1	-	'	1	'	1	'
1		┢	-	5 Resin injection	2.2	E	5,000	11,000	-	7	7	1	15	 Manual control of the second se	8
	0 0			5 Patching	0.4	m ²	17,500	7,000	'	-	2	1	15	7,000	8
	1 <u>0</u>	Damages at anchorage of PC tendon	е С	5 Reinforcement with external PC tendon	- T - -	Pos.	1,000,000	-	1	ł	'	1	1	1	'
L		Cracking/Water leakage/Free lime	a 5	5 Resin injection	10.2	E	5,000	51,000	'	'	~	L	15		2
Crossbeam	02 18	Rebar exposure	_	5 Patching	2.0	m ²	17,500	35,000	'		7	1	15	35,000	30
	LD LD	Damages at anchorage of PC tendon	a 5	5 Reinforcement with external PC tendon	'	Pos.	1,000,000	'	'	-	·	•	-	'	'
L		Cracking/Water leakage/Frœ lime	8	Re	2.2	æ	5,000	11,000	'	1		'	15	- -	02
	8	Rebar exposure	8	Patching	0.4	m ²	17,500	1,000	'	'T	-	1	3	<u>000</u>	R
		Damages at anchorage of PC tendon	┿	Reinforcement	- 13 - 13	Pos.	17500	200 500		• • •		•	15		' 0°
		Kebar exposure			0.16	Ъ ^р с	000'11	MC'720	' '			1	; '	•	
	5 5	Pop-outs	+	2 Fakiling & CFN	2.63.7	1 49.	22,500	5.933.300		5,933,300	12	1	25	5,933,300	50
		Dehor eventure	, « , «	ρ. 	51.0	ш 2	17.500	892.500	'	-	2	-	15	1	30
	4 <u>14</u> 8	Pon-outs		Patc		Pos.	10,000	-	-	-	'	1	-	1	'
	Lam	Jeck cracking	-	5 CFR	263.7	m ²	22,500	5,933,300	1	1	12	-	25	5,933,300	8
	السلم ا	Rebar exposure	a .		51.0	m²	17,500	892,500	'			F	15	1	R
	8 8	Pop-outs	8	5 Patching & CFR	1	Pos.	10,000		'		· ;	t			1 4
		Jeck cracking	U U	3 CFR	263.7	m²	22,500	5,933,300	- 17 J .	5,933,300	219	1	32	005,259,5	20
	01 D	Damages at anchorage of PC tendon	ن ه	2 CFR	1.0	Pos.	45,000	45,000	45,000		2	'	C1 ;	40,000	R
		Cracking/Water leakage/Free lime	ن د	3 Resin injection	5.54	в	5,000	27,700	'	21,100		1	с :	1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2
	01	Rebar exposure	8	5 Patching	2.24	m²	17,500	39,200	'		-	-	51	39,200	3
	Ē	Damages in substructures	e e	5 Foot protection		Pier / pylon	1,750,000	'[<u>'</u>	ŀ		1	i d
		Cracking/Water leakage/Free lime	د :	3 Resin injection	5.54	в	5,000	27,700	•	27,700		'	<u>_</u>		20
	02	Rebat exposure	a	5 Patching	2.24	m2		39,200	-		-	'	5	39,200	50
		Damages in substructures	е е	5 Foot protection	•	Pier / pylon	1,75	Ť	'	1	'		'	•	1
,		evel difference of road surface	е -	5 Pavement replacement	,	m²	5,000	•	-	-	5	'	10	1	8
Koad surface	5	Damages in payennents	e B	5 same as above	1,468.3	m²	5,000	7,341,400	-	-	5		10	7,341,400	20
T	10	Damages in barriers	┝	5 Patching.	7.25	m²	120,000	870,000	•	-	7	1	15	870,000	30
Barriers	14 14520	Damaees in barners	63	5 Patching.	7.25	. 11	120,000	870,000	-	-	7	1	15	870,000	30
Railines	A AFR	Damaees in barriers	69	5 Patching.	7.25	"	120,000	870,000	-	-	7	1	15	870,000	30
	8	Damazes in barriers		5 Patching.	7.25	"	120,000	870,000	-	-	7	1	15	870,000	30
Expansion		Demages in examision foints		5 chance of steel exp.	35.8	в	5,000	179,000	ı	(7		15	179,000	30
ioints			_		_	_		-						したし、一般に関わりた、後端の()	

Approximate total repair cost

Year	Snow M. 4	0			ual repair cost (B)			
-	Span No.1	Span No.2	Span No.3	Span No.4	Span No.5	Periodic inspection + reserve for unexpected matters	Bridge total	Cummalative cost (
2011 2012	-	-				233,400	233,400	
2013			-					23
2014 2015								23
2016 2017		-	the second se			233,400		23.
2017	55,400	27,700	55,400	27,700		253,400	233,400	46
2019 2020				27,700	55,400		221,600	68
2020	-							68
2022 2023	11 942 200	-		-		233,400	233,400	92
2023	11,866,600			17,460,000	11,866,600	-	41,193,200	92 42,11
2025 2026	-		-	-		-		42,11;
2026	-			-		233,400	233,400	42,11
2028 2029		-	-		-	-		42,34
2030	-							42,34
2031 2032	7,341,400	10,802,500	139,402,400	10,802,500	7,341,400	233,400	175,923,600	42,34
2033	-						175,923,600	218,272
2034 2035			-	-	-			218,272
2036					-		-	218,272 218,272
2037 2038			-		-	233,400	233,400	218,505
2039		-					-	218,505 218,505
2040 2041	3,558,400	5,160,800	167.116.000					218,505
2042		5,100,800	167,116,000	5,160,800	3,558,400	233,400	184,787,800	<u>218,505</u> 403,293
2043	<u>-</u>					-		403,293
2045	-	-					-	403,293
2046 2047						233,400	233,400	403,293 403,526
2048	-	-	-	-				403,526
2049 2050						*		403,526
2051		-	-	-	-	233,400		403,526.
052	7,341,400	10,802,500	139,402,400	10,802,500	7,341,400		233,400	403,760, 579,450,
054	-	-				-		579,450.
055						-	-	579,450, 579,450,
057 058	-	-		-		233,400	233,400	579,683,
058						-	-	<u>579,683,</u> 579,683,
060 061	5,933,300		-			-		579,683,
062		26,190,000		8,730,000	5,933,300	233,400	47,020,000	579,683, 626,703,
063 064					-			626,703,
065		-					•	626,703, 626,703,
066 067				-	-	233,400	233,400	<u>626,703,</u> 626,937,0
068		-					-	626,937,0
069 070						-		626,937,0
071		-	-			233,400		626,937,0
072	3,558,400 7,341,400	5,160,800	167,116,000 139,402,400	5,160,800 10,802,500	3,558,400		233,400	<u>627,170,4</u> 811,724,8
074	11,866,600		-	17,460,000	7,341,400	-	175,690,200	987.415.0
)76	-							1,028,608,2
077 078		-	-			233,400	233,400	1,028,841,6
)79	-	-						1,028,841,6 1,028,841,6
80		-	-		-	-	-	1,028,841,6
82		-				233,400	233,400	1,028,841,6
83 84	-			-			-	1,029,075,0
85	-		-	-				1,029,075,0
86 87	-			-		233,400	233,400	1,029,075,0
88				-	-			1,029,308,4
89 90	-					-		1,029,308,4
91		-	-	-		233,400	233,400	1.029.308.4
92 93		-				•	253,400	1,029,541,8 1,029,541,8
94	7,341,400	10,802,500	139,402,400	10,802,500	7,341,400		175,690,200	1,029,541,8
95	-	-		-				1,205,232,0
97				-	-	233,400	233,400	1,205,465,40
98 99								1,205,465,4
00	-			-				1,205,465,4
01			-	-	-	233,400	233,400	1,205,465,40
03	3,558,400	5,160,800	167,116,000	5,160,800	3,558,400		-	1,205,698,80
04			-		-	-	184,554,400	1,390,253,20
06	-	-	-	-		233,400	213 (00	1,390,253,2(
07 08						-	233,400	1,390,486,60
09		-	-		-271 -			1,390,486,60
	-	-	-	-				1,390,486,60



Estimation of LCC

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