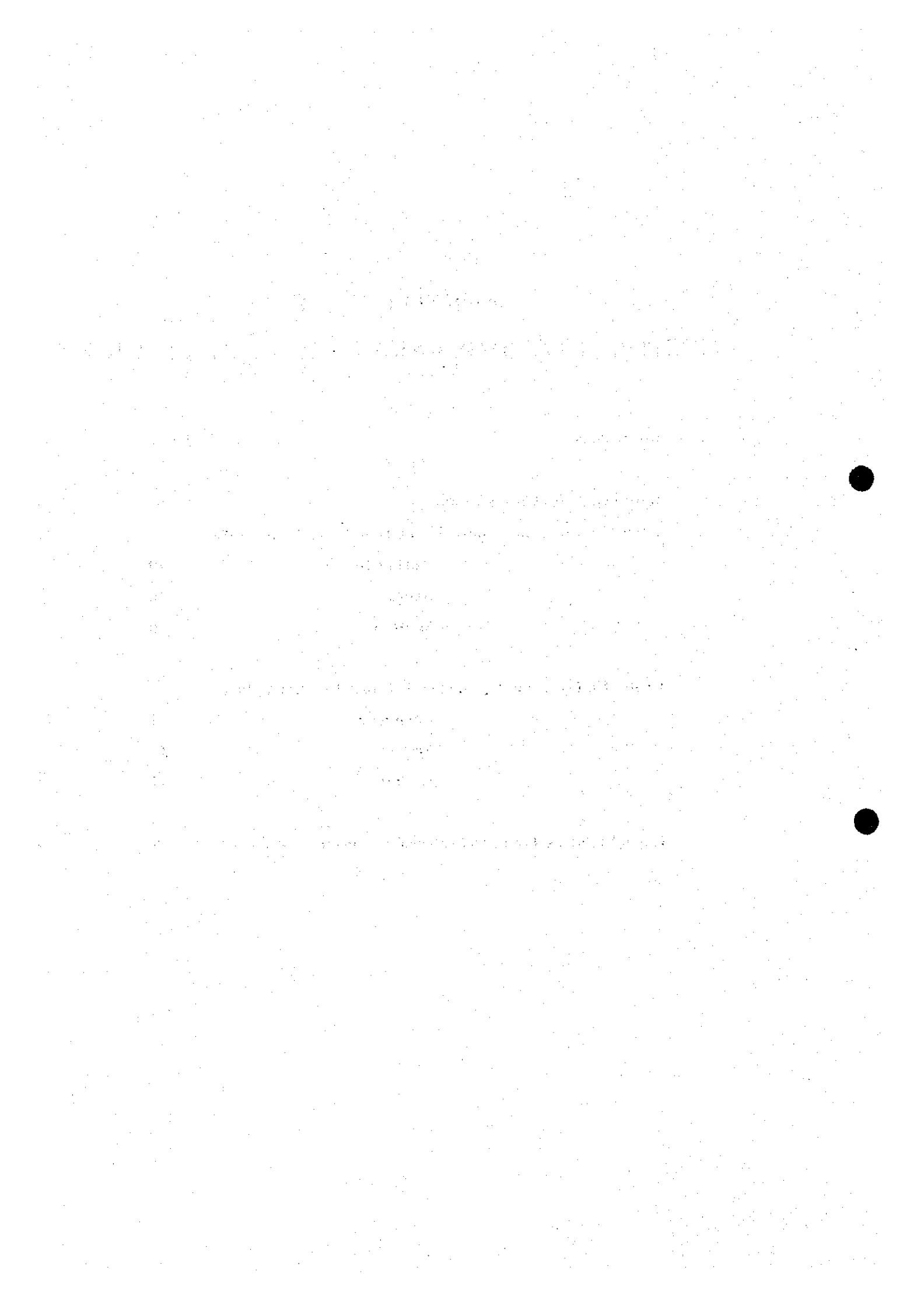


ANEXO I – 5 – B

COSTOS UNITARIOS PARA LA REHABILITACIÓN

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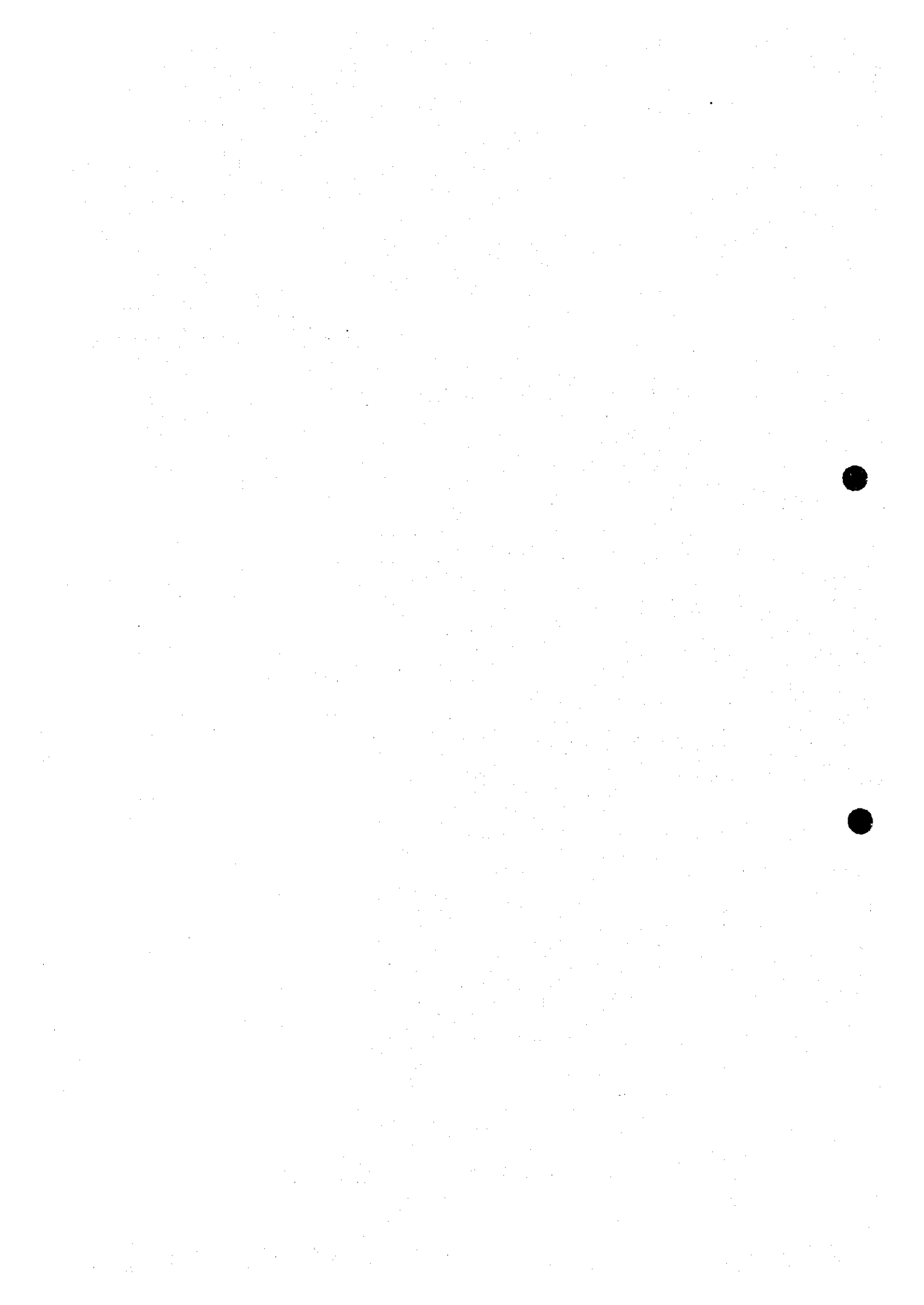


Resumen de los Costos Unitarios

N°	Código	Nombre del Daño	Costo Unitario Superestructura/m2			Unit Cost of Substructure/m2			Comentarios
			Hormigón	Acero	Madera	Hormigón	Acero	Madera	
1	BR	Fractura/Desprendimiento	\$12.400	\$31.600	\$25.800	\$8.800	\$26.500	\$18.000	
2	CO	Corrosión/Pudrición/Detenoro	\$9.900	\$13.600	\$25.800	\$9.300	\$12.400	\$18.000	
3	CR	Grietas	\$47.000	\$29.400	\$25.800	\$25.300	\$24.500	\$18.000	
4	DH	Deformación del Elemento	-	\$552.600	-	-	\$473.800	-	
5	ER	Erosión en las Orillas y alrededor de las Cepas	-	-	-	-	\$40.000	-	
6	FI	Incendio	-	-	\$25.800	-	-	\$18.000	
7	IN	Inclinación de la Infraestructura	-	-	-	Depende de	condiciones en terreno	-	
8	NF	No Funciona (Apoyo y Junta Expansión)	Depende de	condiciones en terreno	-	-	-	-	
9	SC	Desgaste (Scaling)	\$12.400	-	-	\$8.800	-	-	
10	SE	Asentamiento	-	-	-	Depende de	condiciones en terreno	-	
11	SL	Deslizamiento	-	-	-	Depende de	condiciones en terreno	-	
12	SP	Desgaste/Expansión (Spalling/Scaling)	\$9.300	-	-	\$6.500	-	-	
13	WE	Desgaste Superficie (Surface Wearing)	\$13.200	-	-	\$13.000	-	-	



**SUPERESTRUCTURA
HORMIGÓN**



SUPERESTRUCTURA

ACERO



I-5-B. Costo Unitario para Reparación

Item N°	Nombre de la Reparación	Descripción	Unidad	Cantidad	Costo	Monto	Comentarios
DH - ml	Superestructura						
	Dar forma original						
		Material					
		Pintura	kg	1	\$ 5.800	\$ 5.800	per 1 m2
		M.O.					
		Técnico o Ingeniero	persona	1	\$ 20.000	\$ 20.000	
		Capataz	persona	1	\$ 11.000	\$ 11.000	
		Maestro	persona	3	\$ 8.500	\$ 25.500	
		Jornal	persona	1	\$ 5.500	\$ 5.500	
		Equipamiento					
		Gatos		2	\$ 50.000	\$ 100.000	
		Grúa Hidráulica		1	\$ 80.000	\$ 80.000	
		Viga H 300 x 300 x 6000		2	\$ 300	\$ 600	
		Viga H 200 x 200 x 1500		2	\$ 200	\$ 400	
		Viga Madera 150x150		4	\$ 100	\$ 400	
		Martillo		2	\$ 1.500	\$ 3.000	
		Soldadora Acetileno		1	\$ 35.000	\$ 35.000	
		Herramientas	Ls	1	\$ 15.000	\$ 15.000	
		Andamios	m3	250	\$ 250	\$ 62.500	5m x 10m x 5m =250m3
		Transporte	Ls	2	\$ 15.000	\$ 30.000	
		Sub Total				\$ 394.700	
		Misceláneos	Ls	1	\$ 157.880	\$ 157.880	
		Total				\$ 552.580	
		Total/m2				\$ 552.600	

SUPERESTRUCTURA

MADERA



I-5-B. Costos Unitarios para Reparaciones
Fractura/Desprendimiento

Item N°	Name of Rehabilitation	Descripción	Unidad	Cantidad	Costo Unitario	Costo	Comentarios
BR - w1	Superestructura						
	Costo de Reemplazo (Puentes de Madera)						
	Materiales						
	Materiales Madera		m3	1	355.000 \$	355.000 \$	un Roblede 2x 0.0254m, 1m3
	Clavos		kg	4	230 \$	920 \$	
	Pegamento		kg	4	4.000 \$	16.000 \$	
	Pintura		kg	8	4.500 \$	36.000 \$	
	M.O.						
	Ingeniero		Persona	0,5	20.000 \$	10.000 \$	
	Capataz		Persona	1	11.000 \$	11.000 \$	
	Maestro		Persona	0	8.500 \$	-	
	Jornal		Persona	2	5.500 \$	11.000 \$	
	Carpintero		Persona	2	9.000 \$	18.000 \$	
	Persona		Persona				
	Equipamiento						
	Herramientas		L.s.	1	15.000 \$	15.000 \$	
	Andamios		m3	1.000	250 \$	250.000 \$	(10m x 20m x 5m) =1000m3
	Transporte		L.s.	1	15.000 \$	15.000 \$	100km(por viaje)x2=200km
	Sub total					737.920 \$	
	Misceláneos		L.s.	1	295.168 \$	295.168 \$	
	Costo Total por 1m3					1.033.048 \$	(pesos/ m3)
	Total/m2					25.800 \$	(peso/ms2)

I-5.B. Costos Unitarios para Reparaciones
Corrosión/Pudrición/Deterioro

Item N°	Nombre de la Rehabilitación	Descripción	Unidad	Cubricación	Costo Unitario	Costo	Comentarios
CO - w1	Superestructura						
	Costo Reemplazo (Puente de Madera)						
	Material						
	Material Madera		m3	1 \$	355.000 \$	355.000	Roble 40m2x 0.0254m. 1m3
	Clavos		kg	4 \$	230 \$	920	
	Pegamento		kg	4 \$	4.000 \$	16.000	
	Pintura		kg	8 \$	4.500 \$	36.000	
	M.O.						
	Ingeniero		Persona	0,5 \$	20.000 \$	10.000	
	Capataz		Persona	1 \$	11.000 \$	11.000	
	Maestro		Persona	0 \$	8.500 \$		
	Jornal		Persona	2 \$	5.500 \$	11.000	
	Carpintero		Persona	2 \$	9.000 \$	18.000	
	Equipamiento						
	Herramientas		L.s.	1 \$	15.000 \$	15.000	
	Andamios		m3	1.000 \$	250 \$	250.000	(10m x 20m x 5m) = 1000m3
	Transporte		L.s.	1 \$	15.000 \$	15.000	100km(por viaje)x2=200km
	Sub total					737.920	
	Misceláneos		L.s.	1 \$	295.168 \$	295.168	
	Costo Total por 1m3					1.033.088	(pesos/m3)
	Total/m2					25.800	(pesos/m2)

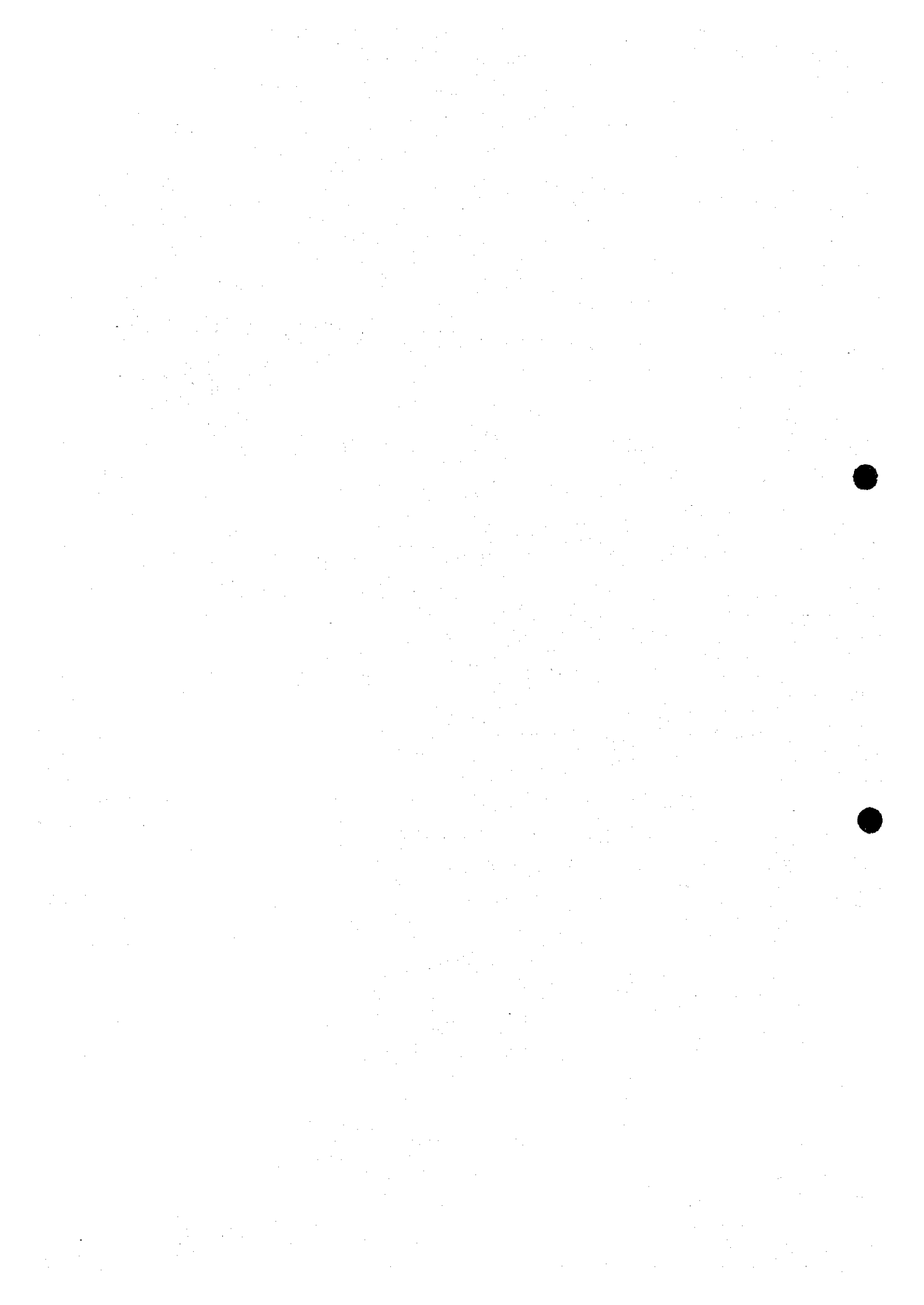
I-5-B. Costos Unitarios para Reparaciones
Crietas

Item N°	Nombre de la Rehabilitación	Descripción	Unidad	Cubicación	Costo Unitario	Costo	Comentarios
CR - w1	Superestructura Costo Recomp. (Puente Mad.)						
		Materiales					
		Materiales Madera	m3	1	\$ 355.000	\$ 355.000	Roble 40m2x 0.0254m. 1m3
		Clavos	kg	4	\$ 230	\$ 920	
		Pegamento	kg	4	\$ 4.000	\$ 16.000	
		Pintura	kg	8	\$ 4.500	\$ 36.000	
		M.O.					
		Ingeniero	Person	0,5	\$ 20.000	\$ 10.000	
		Capataz	Person	1	\$ 11.000	\$ 11.000	
		Maestro	Person	0	\$ 8.500	\$ -	
		Jornal	Person	2	\$ 5.500	\$ 11.000	
		Carpintero	Person	2	\$ 9.000	\$ 18.000	
		Equipamiento					
		Herramientas	L.s.	1	\$ 15.000	\$ 15.000	
		Andamios	m3	1.000	\$ 250	\$ 250.000	(10m x 20m x 5m) =1000m3
		Transporte	L.s	1	\$ 15.000	\$ 15.000	100km(por viaje)x2=200km
		Sub total				\$ 737.920	
		Miscelaneos	L.s	1	\$ 295.168	\$ 295.168	
		Costo Total por m3				\$ 1.033.088	(pesos/ m3)
		Total/m2				\$ 25.800	(pesos/m2)

I-5-B. Costos Unitarios para Reparaciones

Item N°	Nombre de la Rehabilitación	Descripción	Unidad	Cubicación	Costo Unitario	Costo	Comentarios
Superestructura							
FI - w1	Costo Reemp. (Puente Mad.)						
		Materiales					
		Materiales Madera	m3		355.000 \$	355.000 \$	Roble 40m2x 0.0254m, 1m3
		Clavos	kg		230 \$	920 \$	
		Pegamento	kg		4.000 \$	16.000 \$	
		Pintura	kg		4.500 \$	36.000 \$	
		M.O.					
		Ingeniero	Persona	0,5 \$	20.000 \$	10.000 \$	
		Capataz	Persona	1 \$	11.000 \$	11.000 \$	
		Maestro	Persona	0 \$	8.500 \$	-	
		Jornal	Persona	2 \$	5.500 \$	11.000 \$	
		Carpintero	Persona	2 \$	9.000 \$	18.000 \$	
		Equipamiento					
		Herramientas	L.s.	1 \$	15.000 \$	15.000 \$	
		Andamios					
		Andamios	m3	1.000 \$	250 \$	250.000 \$	(10m x 20m x 5m) = 1000m3
		Transporte					
		Transporte	L.s.	1 \$	15.000 \$	15.000 \$	100km(por viaje)x2=200km
		Sub total				737.920 \$	
		Misceláneos					
		Misceláneos	L.s.	1 \$	295.168 \$	295.168 \$	
		Costo Total por m3				1.033.088 \$	(pesos/ m3)
		Total/m2				25.800 \$	(pesos/m2)

**INFRAESTRUCTURA
HORMIGÓN**



INFRAESTRUCTURA

ACERO

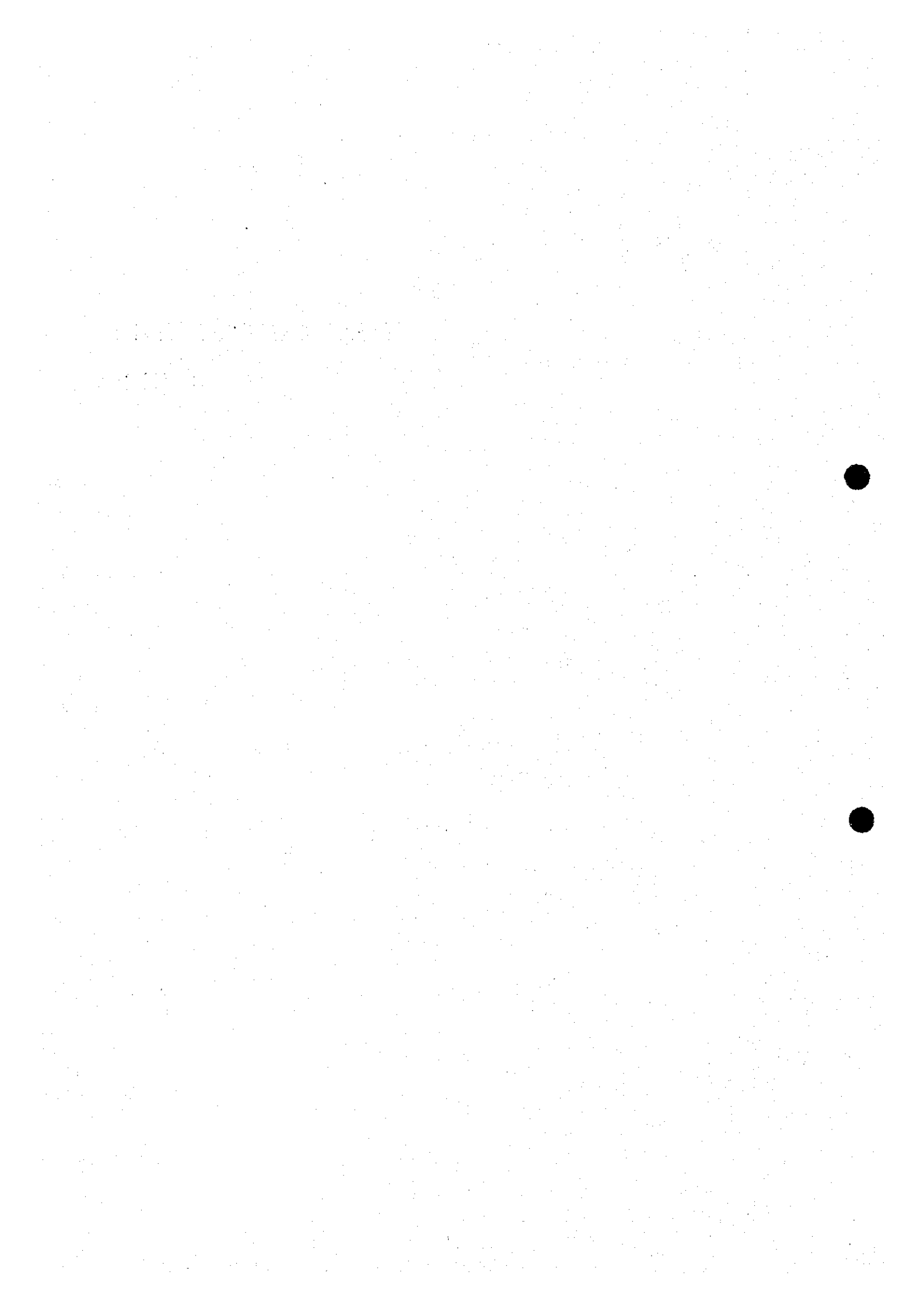


1-5-B. Costo Unitario para Reparación
Deformación del elemento

Item N°	Nombre de la Reparación	Descripción	Unidad	Cantidad	Costo	Monto	Comentarios
	Infraestructura						
DH - m1	Dar forma original						
	Material						
	Pintura		kg	1	\$ 5.800	\$ 5.800	
	M.O.						
	Técnico o Ingeniero		persona	1	\$ 20.000	\$ 20.000	
	Capataz		persona	1	\$ 11.000	\$ 11.000	
	Maestro		persona	3	\$ 8.500	\$ 25.500	
	Jornal		persona	1	\$ 5.500	\$ 5.500	
	Equipamiento						
	Gatos		each	2	\$ 50.000	\$ 100.000	
	Grúa Hidráulica		each	1	\$ 80.000	\$ 80.000	
	Viga H 300 x 300 x 6000		each	2	\$ 300	\$ 600	
	Viga H 200 x 200 x 1500		each	2	\$ 200	\$ 400	
	Viga Madera 150x150		each	4	\$ 100	\$ 400	
	Martillo		each	2	\$ 1.500	\$ 3.000	
	Soldadora Acetileno		each	1	\$ 35.000	\$ 35.000	
	Herramientas		L.s	1	\$ 15.000	\$ 15.000	
	Andamios		m3	25	\$ 250	\$ 6.250	10m x 1m x 2.5m =25m3
	Transporte		L.s	2	\$ 15.000	\$ 30.000	
	Sub Total					\$ 338.450	
	Misceláneos		L.s	1	\$ 135.380	\$ 135.380	
	Total					\$ 473.830	
	Total/ m2					\$ 473.800	

INFRAESTRUCTURA

MADERA



I-5-B. Costos Unitarios para Reparaciones
Fractura

Item N°	Nombre de la Rehabilitación Infraestructura	Descripción	Unidad	Cubicación	Costo Unitario	Costo	Comentarios
BR - w1	Costo Reemp. (Puente Mad.)						
		Material					
		Materiales Madera	m3	1	\$ 355.000	\$ 355.000	Roble 40m2x 0.0254m, 1m3
		Clavos	kg	4	\$ 230	\$ 920	
		Pegamento	kg	4	\$ 4.000	\$ 16.000	
		Pintura	kg	8	\$ 4.500	\$ 36.000	
		M.O.					
		Ingeniero	Persona	0,5	\$ 20.000	\$ 10.000	
		Capataz	Persona	1	\$ 11.000	\$ 11.000	
		Maestro	Persona	0	\$ 8.500	\$ -	
		Jornal	Persona	2	\$ 5.500	\$ 11.000	
		Carpintero	Persona	2	\$ 9.000	\$ 18.000	
		Equipamiento					
		Herramientas	L.s.	1	\$ 15.000	\$ 15.000	
		Andamios	m3	100	\$ 250	\$ 25.000	(10m x 1m x 5m)x2 = 100m3
		Transporte	L.s	1	\$ 15.000	\$ 15.000	100km (por viaje)x2=200km
		Sub total				\$ 512.920	
		Misceláneos	L.s	1	\$ 205.168	\$ 205.168	
		Costo Total por m3				\$ 718.088	(pesos/ m3)
		Total/m2				\$ 18.000	(pesos/m2)

I-5-B. Costos Unitarios para Reparaciones

Item N°	Nombre de la Rehabilitación	Descripción	Unidad	Cubicación	Costo Unitario	Costo	Comentarios
CO - w1	Infraestructura						
	Costo Recomp. (Puente Mad.)						
		Materiales					
		Materiales Madera	m ³	1 \$	355.000 \$	355.000 \$	Roble 40m2x 0.0254m. 1m3
		Clavos	kg	4 \$	230 \$	920 \$	
		Pegamento	kg	4 \$	4.000 \$	16.000 \$	
		Pintura	kg	8 \$	4.500 \$	36.000 \$	
		M.O.					
		Ingeniero	Persona	0,5 \$	20.000 \$	10.000 \$	
		Capataz	Persona	1 \$	11.000 \$	11.000 \$	
		Maestro	Persona	0 \$	8.500 \$		
		Jornal	Persona	2 \$	5.500 \$	11.000 \$	
		Carpintero	Persona	2 \$	9.000 \$	18.000 \$	
		Equipamiento					
		Herramientas	L.s.	1 \$	15.000 \$	15.000 \$	
		Andamios					
		Andamios	m3	100 \$	250 \$	25.000 \$	(10m x 1m x 5m) x2 = 100m3
		Transporte					
		Transporte	L.s.	1 \$	15.000 \$	15.000 \$	100km(por viaje)x2=200km
		...					
		Sub total				512.920 \$	
		Misceláneos					
		Misceláneos	L.s.	1 \$	205.168 \$	205.168 \$	
		Costo Total por m3				718.088 \$	(pesos/ m3)
		Total/m2				18.000 \$	(pesos/m2)

I-5-B. Costos Unitarios para Reparaciones

Grietas

Item N°	Nombre de la Rehabilitación	Descripción	Unidad	Cubicación	Costo Unitario	Costo	Comentarios
	Infraestructura						
CR - w1	Costo Reemp. (Puente Mad.)						
	Materiales						
	Materiales Madera		m3		355.000 \$	355.000 \$	Roble 40m2x 0,0254m, 1m3
	Clavos		kg		230 \$	920	
	Pegamento		kg		4.000 \$	16.000	
	Pintura		kg		4.500 \$	36.000	
	M.O.						
	Ingeniero		Persona	0,5	20.000 \$	10.000	
	Capataz		Persona	1	11.000 \$	11.000	
	Maestro		Persona	0	8.500 \$		
	Jornal		Persona	2	5.500 \$	11.000	
	Carpintero		Persona	2	9.000 \$	18.000	
	Equipamiento						
	Herramientas		L.s.	1	15.000 \$	15.000	
	Andamios		m3	100	250 \$	25.000	(10m x 1m x 5m)x2 =100m3
	Transporte		L.s.	1	15.000 \$	15.000	100km(per viaje)x2=200km
	Sub total					512.920	
	Misceláneos		L.s.	1	205.168 \$	205.168	
	Costo Total por m3					718.088	(pesos/ m3)
	Total/m2					18.000	(pesos/m2)

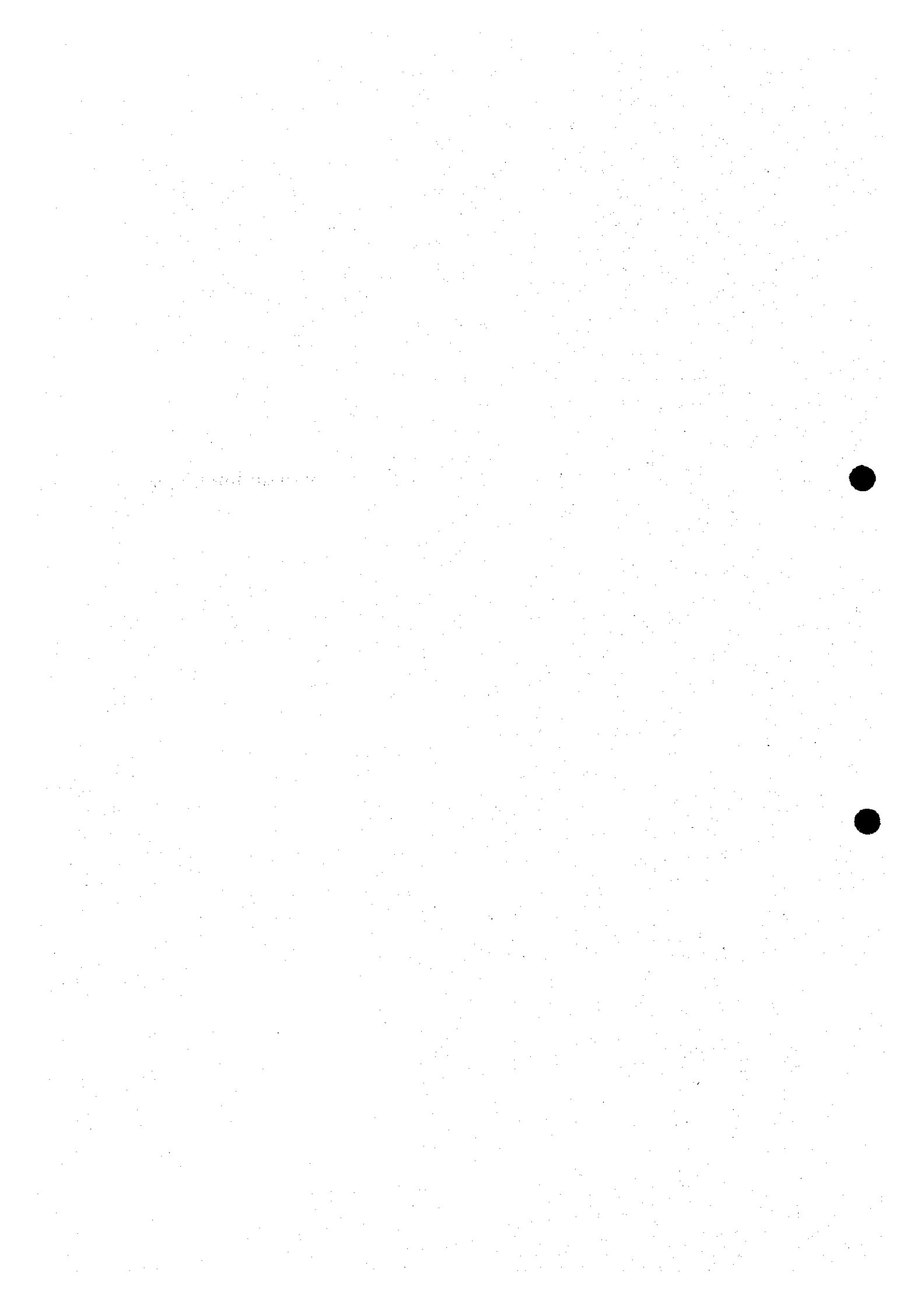
I-5-B. Costos Unitarios para Reparaciones

Item N°	Nombre de la Rehabilitación	Descripción	Unidad	Cubicación	Costo Unitario	Costo	Comentarios
FI - w1	Costo Reemp. (Puente Mad.)						
	Infraestructura						
		Materiales					
		Materiales Madera	m3	1	\$ 355.000	\$ 355.000	Roble 40m2x 0.0254m. 1m3
		Clavos	kg	4	\$ 230	\$ 920	
		Pegamento	kg	4	\$ 4.000	\$ 16.000	
		Pintura	kg	8	\$ 4.500	\$ 36.000	
		M.O.					
		Ingeniero	Persona	0,5	\$ 20.000	\$ 10.000	
		Capataz	Persona	1	\$ 11.000	\$ 11.000	
		Maestro	Persona	0	\$ 8.500	\$ -	
		Jornal	Persona	2	\$ 5.500	\$ 11.000	
		Carpintero	Persona	2	\$ 9.000	\$ 18.000	
		Equipamiento					
		Herramientas	Ls.	1	\$ 15.000	\$ 15.000	
		Andamios	m3	100	\$ 250	\$ 25.000	(10m x 1m x 5m)x2 =100m3
		Transporte	Ls.	1	\$ 15.000	\$ 15.000	100km(por viaje)x2=200km
		Sub total			\$	\$ 512.920	
		Misceláneos	Ls.	1	\$ 205.168	\$ 205.168	
		Costo Total por m3			\$	\$ 718.088	(pesos/ m3)
		Total/m2			\$	\$ 18.000	(pesos/m2)

ANEXO I - 6

COSTOS DE REHABILITACIÓN DE LA IX REGIÓN

I - 6 - A: Reconstruction Costs



16-A Reconstruction Costs

Link No.	Bridge No.	Bridge Description		Bridge Length (m)	Number of Lanes	Bridge Cost		Approach Road Cost (x1,000 pesos)	River Protection Cost (x1,000 pesos)	Total Cost (x1,000 pesos)
		Commune Name	Bridge Name			Bridge Area (m ²)	Cost (x1,000 pesos)			
35	IX-001	LAUTARO	SIBLINTO	24.80	2	233.12	119,400	45,800	2,300	167,500
35	IX-002	LAUTARO	MUCOBAJO	34.50	2	324.30	166,000	45,800	2,300	214,100
36	IX-003	VILCUN	QUINTRIPE	40.00	1	60.00	30,200	39,000	2,300	71,500
40	IX-004	VILLARRICA	ILAMUCO	22.00	1	132.00	67,600	39,000	2,300	108,900
40	IX-005	VILLARRICA	PEDREGOSO	16.50	1	99.00	50,700	39,000	2,300	91,000
40	IX-006	VILLARRICA	CALBUCO	13.00	1	78.00	39,800	39,000	2,300	81,100
41	IX-007	VILLARRICA	ELTIGRE	19.50	1	117.00	59,900	39,000	2,300	101,200
42	IX-008	VILLARRICA	CHOMEJ	10.00	1	60.00	30,700	39,000	2,300	72,000
42	IX-009	VILLARRICA	ELSALTO	11.70	1	70.20	35,900	39,000	2,300	77,200
39	IX-010	VILLARRICA	LAN1	21.80	2	204.92	105,900	45,800	2,300	153,900
39	IX-011	VILLARRICA	LAN2	8.80	2	82.72	42,400	45,800	2,300	90,500
34	IX-012	NUEVA IMPERIAL	HUECHUCON	30.60	2	287.64	147,200	45,800	2,300	195,400
33	IX-013	NUEVA IMPERIAL	HUAMAQUI	19.10	2	179.54	91,900	45,800	2,300	140,000
78	IX-014	VILCUN	PUMALAL	32.20	1	193.20	98,900	39,000	2,300	149,200
56	IX-015	GORBEA	CHARLEO	20.40	2	191.76	98,200	45,800	2,300	146,300
56	IX-016	GORBEA	LAS LUMAS	13.20	2	124.08	63,500	45,800	2,300	111,600
57	IX-017	GORBEA	POULI 1	22.70	1	136.20	69,200	39,000	2,300	111,000
58	IX-018	GORBEA	PUYEHUE	32.10	2	301.74	154,500	45,800	2,300	202,600
59	IX-019	GORBEA	DONGIL	44.10	1	264.60	135,500	39,000	2,300	178,800
59	IX-020	GORBEA	RINCO	12.20	1	73.20	37,500	39,000	2,300	78,800
63	IX-021	VILLARRICA	PEDREGOSO	38.00	2	357.20	182,900	45,800	2,300	231,000
61	IX-022	VILLARRICA	LONG LONG	14.60	1	87.60	44,900	39,000	2,300	86,200
72	IX-023	VILLARRICA	QUEBRADA HONDA	18.00	2	18.00	-	-	-	-
62	IX-024	VILLARRICA	SALVA TU ALMA	40.70	2	382.58	195,900	45,800	2,300	244,000
75	IX-025	VILLARRICA	COLLICO	9.60	2	90.24	46,200	45,800	2,300	94,300
75	IX-026	VILLARRICA	CRUCES	20.00	2	188.00	96,300	45,800	2,300	144,400
74	IX-027	PUCON	EL CRISTO	26.00	2	244.40	125,100	45,800	2,300	171,200
73	IX-028	PUCON	CARHUULLO	21.90	2	205.86	105,400	45,800	2,300	153,500
60	IX-029	CUNCO	LA BASTILLA	74.10	1	444.60	227,600	39,000	2,300	268,900
46	IX-030	CUNCO	CODULLO	10.80	1	64.80	33,200	39,000	2,300	71,500
45	IX-031	VILLARRICA	HUCAHUE	33.00	1	198.00	101,400	39,000	2,300	142,700
64	IX-032	CUNCO	MEDINA	170.00	1	1,020.00	522,800	39,000	2,300	563,500
66	IX-033	LONGQUIMAY	KCALMA	17.90	1	107.40	55,000	39,000	2,300	96,300
65	IX-034	MELPELCO	ALLIPIEN	58.00	1	348.00	178,800	39,000	2,300	219,500
47	IX-035	FREIRE	NEGR0	20.70	2	194.58	99,600	45,800	2,300	142,700
48	IX-036	FREIRE	PELLALES	15.80	2	148.52	76,000	45,800	2,300	124,100
49	IX-037	FREIRE	CHUCAICO	17.50	1	105.00	53,800	39,000	2,300	95,100
49	IX-038	FREIRE	FIN FIN	10.00	1	60.00	30,700	39,000	2,300	72,000
50	IX-039	NUEVA IMPERIAL	BORJA	15.90	2	148.45	76,500	45,800	2,300	124,600
77	IX-040	CARAHUE	SAN RUAN	31.60	2	297.04	152,100	45,800	2,300	200,200
77	IX-041	CARAHUE	LONCOMAYO	18.00	2	169.20	86,600	45,800	2,300	134,700
53	IX-042	TEODO SCHMIDT	PUYEHUE	8.40	1	50.40	25,800	39,000	2,300	67,100
52	IX-043	TEODO SCHMIDT	ALLIPIEN	9.10	1	54.60	28,000	39,000	2,300	69,300
54	IX-044	PITRUFOUEN	QUINQUE	24.80	2	233.12	119,400	45,800	2,300	167,500
32	IX-045	GALVARINO	ALLINCO	-	-	-	-	-	-	-
55	IX-046	PITRUFOUEN	MAHUIDANCHE	36.40	2	342.16	175,200	45,800	2,300	223,300
18	IX-047	COLLIPULLI	LAS TOSCAS	10.80	2	101.52	53,000	45,800	2,300	100,100
71	IX-048	LONGQUIMAY	NANCUREO	10.00	2	94.00	48,100	45,800	2,300	96,200
71	IX-049	LONGQUIMAY	NIRECO	8.20	2	77.08	39,500	45,800	2,300	87,600
7	IX-050	LOS SAUCES	HUADABA	19.90	1	119.40	61,100	39,000	2,300	102,400
6	IX-051	LOS SAUCES	AGUA SANTA	15.50	1	93.00	47,600	39,000	2,300	89,900
13	IX-052	PUREN	PINGUIDAHUE	11.00	2	103.40	52,900	45,800	2,300	101,000
13	IX-053	PUREN	NATO	28.40	2	266.96	136,700	45,800	2,300	184,600
13	IX-054	PUREN	CHACRE	20.10	2	188.94	96,700	45,800	2,300	144,600
13	IX-055	PUREN	VILCO	8.30	2	78.02	39,900	45,800	2,300	86,000
13	IX-056	LOS SAUCES	RANQUILLO	15.30	2	143.82	73,600	45,800	2,300	121,700
25	IX-057	VICTORIA	MULLINLEBU	10.40	2	97.76	50,100	45,800	2,300	98,200
11	IX-058	LOS SAUCES	REHUE	30.50	1	183.00	93,700	39,000	2,300	135,000
10	IX-059	LOS SAUCES	NAPANIR	11.10	1	66.50	34,100	39,000	2,300	75,400
11	IX-060	LOS SAUCES	CATALINA N°2	28.90	1	173.40	89,800	39,000	2,300	130,100
10	IX-061	LOS SAUCES	CATALINA N°1	20.40	1	122.40	62,700	39,000	2,300	104,600
10	IX-062	LOS SAUCES	PELEHUTO	17.80	1	106.80	54,700	39,000	2,300	96,000
22	IX-063	VICTORIA	MALLECO	32.20	1	193.20	98,900	39,000	2,300	130,200
22	IX-064	VICTORIA	LOS SOLDADOS	33.50	1	201.00	102,900	39,000	2,300	144,200
24	IX-065	VICTORIA	MALLECO	12.00	1	72.00	36,900	39,000	2,300	78,200
17	IX-066	LOS SAUCES	QUINQUEN	36.10	2	339.94	173,700	45,800	2,300	221,800
5	IX-067	ANGOL	VEGAS BLANCAS	8.00	1	48.00	24,600	39,000	2,300	65,900
5	IX-068	ANGOL	EL MANZANO	15.40	1	92.40	47,300	39,000	2,300	88,600
9	IX-069	LOS SAUCES	MIRAFLORES	44.40	2	417.36	213,700	45,800	2,300	261,400
8	IX-070	LOS SAUCES	LA OBRA	10.40	2	97.76	50,100	45,800	2,300	98,200
19	IX-071	COLLIPULLI	CALLEN	13.60	2	127.84	65,500	45,800	2,300	113,500
20	IX-072	COLLIPULLI	MININCO	16.30	1	97.80	50,100	39,000	2,300	91,400
21	IX-073	COLLIPULLI	NANCO	14.40	1	84.40	44,200	39,000	2,300	85,300
1	IX-074	RENAKO	TOLPAN	93.40	1	560.40	286,900	39,000	2,300	328,200
68	IX-075	LONGQUIMAY	LOS SOLDADOS	10.00	2	94.00	48,100	45,800	2,300	96,200
68	IX-076	LONGQUIMAY	MIRAFLORES	19.70	2	165.18	84,600	45,800	2,300	142,900
67	IX-077	LONGQUIMAY	RICANICO	22.80	2	214.32	109,700	45,800	2,300	157,600
31	IX-078	TRAUCUEN	HUINILHUE	33.30	2	313.02	160,300	45,800	2,300	208,400
12	IX-079	PUREN	LA ISLA	36.70	1	270.20	112,700	39,000	2,300	154,000
23	IX-080	VICTORIA	DUJO	32.90	1	197.40	101,300	39,000	2,300	142,400
26	IX-081	CURACAUTIN	AMANTIBLE	18.20	2	171.08	87,600	45,800	2,300	135,300
27	IX-082	CURACAUTIN	CORCOLAUO	13.80	1	82.80	42,400	39,000	2,300	81,600
27	IX-083	CURACAUTIN	SANTA RITA	11.70	1	70.20	35,900	39,000	2,300	77,800
28	IX-084	CURACAUTIN	OLLO	10.00	1	60.00	30,700	39,000	2,300	72,000
66	IX-085	LONGQUIMAY	HULLINCO	16.80	1	100.80	51,600	39,000	2,300	92,900
3	IX-086	ANGOL	MALLECO	92.00	1	552.00	287,600	39,000	2,300	321,900
29	IX-087	CURACAUTIN	TRAHUICO	39.20	1	238.20	122,000	39,000	2,300	163,300
29	IX-088	CURACAUTIN	CAUTIN	39.40	1	236.40	121,000	39,000	2,300	162,700
30	IX-089	CURACAUTIN	COLORADO	21.50	1	129.00	66,000	39,000	2,300	101,300
37	IX-090	LAUTARO	EL TRUENO	43.80	1	262.80	134,600	39,000	2,300	175,200
38	IX-091	LAUTARO	COLLIN	21.80	1	130.80	67,000	39,000	2,300	108,900
2	IX-092	ANGOL	LAS ANIMAS	24.20	1	148.20	75,900	39,000	2,300	117,200
2	IX-093	ANGOL	PELLOMENCO	14.10	1	84.60	43,300	39,000	2,300	84,600
70	IX-094	LONGQUIMAY	LOLEN	67.00	2	629.80	322,500	45,800	2,300	370,600
16	IX-095	LOS SAUCES	PENCO	20.20	1	134.20	63,600	39,000	2,300	104,000
69	IX-096	LONGQUIMAY	PUNTA NEGRA 1	28.60	2	268.64	137,600	45,800	2,300	185,200
69	IX-097	LONGQUIMAY	PUNTA NEGRA 2	28.80	2	270.72	138,600	45,800	2,300	186,200
4	IX-098	ANGOL	UEALTAO	63.90	2	598.76	306,500	45,800	2,300	354,300
51	IX-099	TEODO SCHMIDT	POCULON	31.00	2	291.40	149,200	45,800	2,300	197,300
14	IX-100	PUREN	LAS MINAS	12.50	1	75.00	38,400	39,000	2,300	79,300
43	IX-101	VILLARRICA	MALLA	10.00	1	60.00	30,700	39,000	2,300	72,000
44	IX-102	VILLARRICA	PULLO	14.50	1	87.00	44,500	39,000	2,300	85,800
76	IX-103	GORBEA	PLANCHADO 1	7.00	1	42.00	21,500	39,000	2,300	62,800
76	IX-104	GORBEA	PLANCHADO 2	9.60	1	57.60	29,500	39,000	2,300	71,800
76	IX-105	GORBEA	PLANCHADO 3	8.00	1	48.00	24,600	39,000	2,300	65,900
76	IX-106	GORBEA	PLANCHADO 4	11.30	1	67.80	34,700	39,000	2,300	76,000
76	IX-107	GORBEA	PLANCHADO 5	10.00	1	60.00	30,700	39,000	2,300	72,000
76	IX-108	GORBEA	PLANCHADO 6	8.90	1	53.40	27,300	39,000	2,300	68,600
76	IX-109	GORBEA	PLANCHADO 7	14.80	1	88.80	45,500	39,000	2,300	86,800
76	IX-110	GORBEA	PLANCHADO 8	12.80	1	76.80	39,300	39,000	2,300	81,600
			Total			19,497	9,982,200	4,515,000	245,400	14,745,600
			A-EDGE			180.53	92,400	41,800	2,300	



I - 6 - B: Repair Costs



I-6-B Repair Costs of Region IX (I)
Bridge Data from Inventory

Link No.	Bridge No.	Bridge Description		Span length and Substructure height									
		Dist (X) Name	Bridge Name	Abutment A1	A1-P1 Span	Pier P1	P1-P2 Span	Pier P2	P2-P3 Span	Pier P3	P3-P4 Span	Pier P4	P4-P5 Span
35	DX-001	LAUTARO	SIRUNTO	2.50	8.30	4.50	6.00	4.50	8.50				
35	DX-002	LAUTARO	MUCOBABO	4.50	7.50	9.00	20.00	9.00	7.30				
36	DX-003	VILLUN	QUINTRILPE	3.00	10.00								
40	DX-004	VILLARRICA	ILANUCO	5.00	22.00								
40	DX-005	VILLARRICA	PEDEGOSO	3.30	8.50		8.00						
40	DX-006	VILLARRICA	CAIBRACO	1.15	3.00	3.40	10.00						
41	DX-007	VILLARRICA	ELTIGRE	3.60	7.10	7.20	13.40						
42	DX-008	VILLARRICA	CHOMEZ	3.20	10.00								
42	DX-009	VILLARRICA	ELSALTO	3.40	11.20								
39	DX-010	VILLARRICA	ILANI	3.20	6.70	6.90	9.10		6.00				
39	DX-011	VILLARRICA	ILANI	2.50	8.80								
34	DX-012	NUOVA IMPERIAL	HUECHUCON	4.00	5.40	8.00	5.60	8.00	8.80	8.00	5.30	8.00	5.50
33	DX-013	NUOVA IMPERIAL	HUAMADUI	3.00	9.90	6.00	9.30						
78	DX-014	VILLUN	PUMALAL	4.70	16.10	9.40	16.10						
56	DX-015	GORBEA	CHARLEO	3.00	6.80	3.60	7.10	3.60	6.50				
56	DX-016	GORBEA	LAS LUMAS	2.05	8.50	4.10	4.70						
57	DX-017	GORBEA	POULI	1.20	7.50	6.45	7.40	3.45	7.80				
58	DX-018	GORBEA	PUYEHUE	4.00	8.10	8.00	15.90	8.00	8.10				
59	DX-019	GORBEA	DONGIL	2.85	8.50	5.20	8.10	5.20	8.50	5.70	8.50	5.70	10.50
59	DX-020	GORBEA	RINCO	1.50	8.40	3.00	3.80						
63	DX-021	VILLARRICA	PEDEGOSO	3.00	10.00	6.00	10.00						
61	DX-022	VILLARRICA	LONG LONG	2.10	7.40	4.20	7.50						
72	DX-023	VILLARRICA	QUEBRADA HONDA	5.00	10.00								
62	DX-024	VILLARRICA	SALVA TU ALMA	4.10	20.50	8.25	10.00	8.25	13.20				
75	DX-025	VILLARRICA	OLLICO	5.00	9.60								
75	DX-026	VILLARRICA	CRICES	2.50	10.00	3.40	10.00						
74	DX-027	PUCON	EL CRISTO	5.00	26.00								
73	DX-028	PUCON	CARHUULLO	4.52	8.30		13.60						
60	DX-029	CUNCO	LA ROSTILLA	5.00	24.10								
46	DX-030	CUNCO	COOLITO	5.00	10.80								
45	DX-031	VILLARRICA	HUCAHUE	2.55	7.00	5.10	8.70	5.10	8.70	5.10	8.60		
64	DX-032	CUNCO	MEDINA	3.70	25.00	7.50	25.00	7.50	25.00	7.50	25.00	7.50	35.00
66	DX-033	LONGOMAY	KALIMA	2.00	8.80	5.30	9.10						
65	DX-034	MELPEUCO	ALLIPEN	3.25	10.40	6.50	11.80	6.50	12.00	6.50	12.00	6.50	11.80
47	DX-035	FREIRE	NEGRO	2.70	6.80	3.40	7.20	3.40	6.70				
48	DX-036	FREIRE	PELALES	4.00	7.80	4.29	8.00						
49	DX-037	FREIRE	CORCAUCO	2.00	8.80	2.80	8.70						
49	DX-038	FREIRE	PIN FIN	3.00	4.90	3.25	5.10						
50	DX-039	NUOVA IMPERIAL	BORJA	1.80	7.90	3.60	8.00						
77	DX-040	CARAHUE	SAN JUAN	3.00	8.00	6.00	8.00	6.00	7.50	6.00	8.10		
77	DX-041	CARAHUE	LONGOMAYO	2.50	9.50	3.60	8.50						
53	DX-042	TEODO SCHMIDT	PUYEHUE	4.00	8.40								
52	DX-043	TEODO SCHMIDT	ALLIPEN	1.50	9.10								
54	DX-044	PITRUPOVEN	QUINQUE	2.20	7.40	4.40	8.20	4.40	8.70				
32	DX-045	GALVANINGO	AJUNICO										
55	DX-046	PITRUPOVEN	MAHOTOANCHE	5.00	9.00	7.60	9.00	7.60	9.10	7.60	9.30		
18	DX-047	COLLIPULLI	LAS TOSCAS	2.10	5.50	4.20	5.30						
71	DX-048	LONGOMAY	NANCUREO	1.80	10.00								
71	DX-049	LONGOMAY	MIRECO	1.50	8.20								
7	DX-050	LOS SAUCES	HUANABA	4.40	10.40	4.90	9.50						
6	DX-051	LOS SAUCES	AGUA SANTA	5.20	7.10	5.20	8.40						
13	DX-052	PUREN	PINGUICHARUE	1.20	11.00								
13	DX-053	PUREN	NATO	3.00	10.70	4.90	9.50	4.90	8.20				
13	DX-054	PUREN	CHACRE	3.10	10.30	5.20	9.80						
13	DX-055	PUREN	VILCO	2.15	4.40	2.80	3.90						
15	DX-056	LOS SAUCES	BANQUILEO	4.80	7.00	1.80	8.20						
25	DX-057	VICTORIA	MULLINLEHU	5.00	10.40								
11	DX-058	LOS SAUCES	REBIE	3.80	11.20								
10	DX-059	LOS SAUCES	NAPANIR	3.10	8.50	3.10	5.60						
10	DX-060	LOS SAUCES	CATALINA N°2	4.20	11.50	4.20	4.30	11.80					
10	DX-061	LOS SAUCES	CATALINA N°1	1.00	3.00	2.80	2.80	7.50	3.60	2.70			
10	DX-062	LOS SAUCES	PELEHUITO	1.20	8.20	2.80	9.60						
22	DX-063	VICTORIA	MALLECO	3.20	5.00	6.50	5.40	6.50	13.00	8.80			
22	DX-064	VICTORIA	LOS SOLDADOS	3.50	13.20	7.00	10.40	7.00	10.90				
34	DX-065	VICTORIA		4.70	12.00								
17	DX-066	LOS SAUCES	QUINQUEN	5.00	14.90		13.90		7.30				
4	DX-067	ANGOL	VEG'S BLANCAS	2.00	8.00								
5	DX-068	ANGOL	EL MANZANO	3.80	15.40								
9	DX-069	LOS SAUCES	MIRAFLORES	3.00	8.50	7.00	8.20	7.00	9.90	7.00	7.80	7.00	10.00
8	DX-070	LOS SAUCES	LA OBRA	1.80	2.90		2.50						
19	DX-071	COLLIPULLI	CALLIN	2.50	6.80	2.50	6.80						
20	DX-072	COLLIPULLI	MINDICO	4.50	5.90	9.00	10.40						
21	DX-073	COLLIPULLI	NANCO	1.70	8.10	3.40	6.30						
1	DX-074	RENAICO	TOLCAN	1.20	15.70	7.00	15.50	7.00	15.50	7.00	15.50	7.00	15.50
68	DX-075	LONGOMAY	LOS SOLDADOS	3.00	10.00								
68	DX-076	LONGOMAY	MIRAFLORES	1.20	9.00	3.50	10.70						
67	DX-077	LONGOMAY	RUCANUCO	2.60	11.30	3.40	11.50						
31	DX-078	TRACUEN	MULLIHUE	2.30	8.60	4.80	7.90	4.60	8.00	4.60	8.60		
12	DX-079	PUREN	LA ISLA	1.15	9.20	2.30	9.70	2.30	7.60	2.30	9.20		
23	DX-080	VICTORIA	QUIMO	2.25	10.20	4.50	12.00	4.50	10.20				
26	DX-081	CURACAUTIN	AMANTIBLE	4.35	6.30	5.00	5.90	5.00	6.00				
27	DX-082	CURACAUTIN	CORCORADO	2.40	4.50	4.00	9.30						
27	DX-083	CURACAUTIN	SANTA RITA	2.75	11.70								
28	DX-084	CURACAUTIN	PILO	5.00	10.00								
26	DX-085	LONGOMAY	HULLINCO	2.10	8.40	4.20	8.40						
3	DX-086	ANGOL	MALLECO	3.75	92.00	9.20		9.20		9.20			
29	DX-087	CURACAUTIN	TRAHUICO	2.50	7.20	5.90	9.20	5.50	8.40	5.50	7.10	5.50	6.80
29	DX-088	CURACAUTIN	CAUTIN	4.50	15.40	6.50	24.00	6.50					
30	DX-089	CURACAUTIN	COLORADO	2.40	11.50	3.80	10.00						
37	DX-090	LAUTARO	EL TRUENO	2.60	9.50	10.00	18.00	10.00	8.80	10.00	7.70		
38	DX-091	LAUTARO	COLLIN	3.80	5.60	7.60	4.00	7.60	5.10	7.60	3.70	7.60	3.20
2	DX-092	ANGOL	LAS ANIMAS	1.20	2.10	4.50	10.90	4.50	7.60				
2	DX-093	ANGOL	PELLOMENC O	1.50	7.60	2.60	6.50						
20	DX-094	LONGOMAY	LOLEN	5.00	42.60								
16	DX-095	LOS SAUCES	RENICO	2.00	6.80	4.00	6.20	4.00	2.70				
69	DX-096	LONGOMAY	PUNTA NEGRA 1	1.40	9.50	3.50	9.40	3.50	9.20				
68	DX-097	LONGOMAY	PUNTA NEGRA 2	1.00	9.60	3.10	9.60	3.10	9.60				
4	DX-098	ANGOL	LEALTAD	3.00	8.00	6.00	8.00	6.00	8.00	6.00	8.00	6.00	7.90
51	DX-099	TEODO SCHMIDT	POCULON	4.35	8.10	4.35	7.40	4.35	7.50				
14	DX-100	PUREN	LAS MENAS	1.25	6.30	2.50	6.50						
43	DX-101	VILLARRICA	MALLA	5.00	10.00								
44	DX-102	VILLARRICA	PUELO	1.85	2.50	3.70	7.00						
76	DX-103	GORBEA	PLANCHADO 1	5.00	7.00								
76	DX-104	GORBEA	PLANCHADO 2	5.00	9.60								
76	DX-105	GORBEA	PLANCHADO 3	5.00	8.00								
76	DX-106	GORBEA	PLANCHADO 4	5.00	11.30								
76	DX-107	GORBEA	PLANCHADO 5	5.00	10.70								
76	DX-108	GORBEA	PLANCHADO 6	5.00	8.50								
76	DX-109	GORBEA	PLANCHADO 7	1.15	6.00	2.30	8.80						
76	DX-110	GORBEA	PLANCHADO 8	4.45	6.10	2.90	6.70						
			Total										
			Average										

I-6-B Repair Costs of Region IX (2)
 Bridge Data from Inventory

Link No.	Bridge No.	Pier P5	Span length and Substructure height					Pier P8	P8 A2 Span	Abutment A2	Bridge Width (m)
			P5 P6 Span	Pier P6	P6 P7 Span	Pier P7	P7 P8 Span				
35	DX-001								2.50	4.00	
35	DX-002								4.50	4.15	
36	DX-003								5.00	3.60	
40	DX-004								5.00	4.40	
40	DX-005								3.30	3.70	
40	DX-006								1.15	3.95	
41	DX-007								3.60	3.75	
42	DX-008								3.50	3.70	
42	DX-009								3.40	3.98	
39	DX-010								3.70	4.50	
39	DX-011								2.50	4.28	
34	DX-012								4.00	4.85	
33	DX-013								3.00	4.50	
78	DX-014								4.70	4.65	
56	DX-015								3.00	4.50	
56	DX-016								2.05	4.40	
57	DX-017								1.70	4.30	
54	DX-018								4.90	4.85	
59	DX-019								2.85	4.85	
59	DX-020								1.50	4.28	
63	DX-021								3.90	4.75	
61	DX-022								2.10	4.60	
72	DX-023								-	4.70	
62	DX-024								4.10	4.65	
75	DX-025								-	4.45	
75	DX-026								2.50	4.60	
74	DX-027								-	3.90	
72	DX-028								-	4.70	
60	DX-029								5.00	4.78	
46	DX-030								-	4.05	
45	DX-031								2.55	4.30	
64	DX-032	7.50	35.00						3.70	4.75	
66	DX-033								2.50	4.15	
65	DX-034								3.25	4.68	
47	DX-035								2.70	4.25	
48	DX-036								5.00	4.32	
49	DX-037								2.00	4.45	
49	DX-038								3.00	4.40	
50	DX-039								1.80	4.48	
77	DX-040								3.00	3.00	
77	DX-041								2.50	4.48	
53	DX-042								-	4.70	
52	DX-043								1.50	4.05	
54	DX-044								2.20	4.65	
32	DX-045								-	-	
55	DX-046								4.00	4.80	
18	DX-047								2.10	4.10	
71	DX-048								1.50	4.50	
71	DX-049								4.40	3.95	
7	DX-050								5.20	4.10	
6	DX-051								1.20	3.80	
13	DX-052								0.80	4.10	
13	DX-053								3.10	3.90	
13	DX-054								2.10	4.40	
13	DX-055								0.90	4.10	
15	DX-056								5.00	4.80	
23	DX-057								3.90	4.30	
11	DX-058								3.10	3.60	
10	DX-059								4.20	4.60	
11	DX-060								2.00	4.30	
19	DX-061								1.20	3.60	
10	DX-062								3.20	4.00	
22	DX-063								3.50	4.15	
22	DX-064								5.00	3.80	
24	DX-065								5.00	4.10	
17	DX-066								2.00	3.80	
5	DX-067								3.00	4.40	
9	DX-068								3.00	4.40	
8	DX-069								1.60	3.90	
8	DX-070								2.50	4.40	
19	DX-071								4.50	4.60	
26	DX-072								1.70	4.40	
21	DX-073								1.20	3.50	
1	DX-074	7.00	15.70						3.00	3.65	
68	DX-075								1.20	4.25	
67	DX-076								2.60	3.70	
31	DX-077								2.30	4.50	
12	DX-078								1.15	3.70	
23	DX-079								2.75	4.30	
26	DX-080								4.20	3.50	
27	DX-081								4.00	3.70	
27	DX-082								2.40	4.10	
28	DX-083								3.00	5.00	
64	DX-084								2.10	4.80	
3	DX-085	9.20		9.20		9.20		18.40	3.75	4.50	
29	DX-086	-5.50							2.50	4.40	
29	DX-087								4.50	4.30	
30	DX-088								2.40	4.20	
37	DX-089								2.90	4.45	
38	DX-090								3.80	3.76	
2	DX-091								2.20	4.50	
2	DX-092								1.50	4.70	
10	DX-093								3.00	2.60	
16	DX-094								2.00	3.40	
69	DX-095								1.40	3.65	
69	DX-096								1.00	3.65	
4	DX-097	6.00	7.90	6.00	8.00	6.00	7.90		3.00	4.00	
51	DX-098								4.35	3.40	
14	DX-100								1.25	4.00	
43	DX-101								5.00	4.40	
44	DX-102								1.85	3.95	
76	DX-103								5.00	4.37	
76	DX-104								5.00	4.40	
76	DX-105								5.00	3.70	
76	DX-106								5.00	3.66	
76	DX-107								5.00	3.30	
76	DX-108								5.00	4.35	
76	DX-109								1.15	3.71	
76	DX-112								1.45	4.35	

I-6-B Repair Costs of Region IX (3)
Damage Code and Damage Ratio of Superstructure

Link No.	Bridge No.	Damage Code of Superstructure																			
		A1 P1						P1 P2						P2 P3							
		Concrete	D Ratio	Steel	D Ratio	Timber	D Ratio	Concrete	D Ratio	Steel	D Ratio	Timber	D Ratio	Concrete	D Ratio	Steel	D Ratio	Timber	D Ratio		
35	IX-001		0.60		1.00	BR	0.40		0.60		1.00	CO	0.40		0.60		1.00	BR	0.40		
35	IX-002		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		
36	IX-003		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		
40	IX-004		0.60	CO	1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
40	IX-005		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
40	IX-006		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
41	IX-007		0.60		1.00	BR	0.40		0.60		1.00	BR	0.40		0.60		1.00		0.40		
42	IX-008		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
42	IX-009		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
39	IX-010		0.60		1.00	BR	0.40		0.60		1.00	CO	0.40		0.60		1.00	BR	0.40		
39	IX-011		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
34	IX-012	CR	0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		
33	IX-013		0.60		1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
78	IX-014		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
56	IX-015		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
56	IX-016		0.60		1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
57	IX-017		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		
58	IX-018		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
59	IX-019		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
59	IX-020		0.60	CR	1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
63	IX-021		0.60	CO	1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
61	IX-022		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
72	IX-023		0.60	CO	1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
62	IX-024		0.60	CO	1.00		0.40		0.60	CO	1.00		0.40		0.60		1.00		0.40		
75	IX-025		0.60		1.00	BR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
75	IX-026		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
74	IX-027		0.60		1.00	BR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
73	IX-028		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
60	IX-029		0.60	CR	1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
46	IX-030		0.60		1.00	BR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
45	IX-031		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
64	IX-032		0.60	CO	1.00		0.40		0.60	CR	1.00		0.40		0.60	CR	1.00		0.40		
66	IX-033		0.60		1.00	CR	0.40		0.60		1.00	BR	0.40		0.60		1.00		0.40		
65	IX-034		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00	CR	0.40		
47	IX-035		0.60	CO	1.00		0.40		0.60	CR	1.00		0.40		0.60		1.00		0.40		
48	IX-036		0.60	CO	1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
49	IX-037		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
49	IX-038		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
50	IX-039		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
77	IX-040		0.60		1.00	CO	0.40		0.60		1.00	BR	0.40		0.60		1.00	BR	0.40		
77	IX-041		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
53	IX-042		0.60		1.00	BR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
52	IX-043		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
54	IX-044		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
32	IX-045		0.60		1.00		0.40		0.60		1.00		0.40		0.60		1.00	CO	0.40		
55	IX-046		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
18	IX-047		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
71	IX-048		0.60		1.00	BR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
71	IX-049		0.60	CO	1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
7	IX-050		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
6	IX-051		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
13	IX-052		0.60		1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
13	IX-053		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
13	IX-054		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
13	IX-055		0.60		1.00	BR	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
15	IX-056		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
25	IX-057		0.60		1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
11	IX-058		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
30	IX-059		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
11	IX-060		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
10	IX-061		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00	BR	0.40		
10	IX-062		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
23	IX-063		0.60		1.00	CO	0.40		0.60		1.00	CO	0.40		0.60		1.00		0.40		
22	IX-064		0.60		1.00	CO	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
24	IX-065		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
17	IX-066		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00		0.40		
5	IX-067		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
5	IX-068		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
8	IX-069		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		0.60		1.00	CR	0.40		
8	IX-070		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
19	IX-071		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
20	IX-072		0.60		1.00	CR	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
21	IX-073		0.60		1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
1	IX-074		0.60	CR	1.00		0.40		0.60	CR	1.00		0.40		0.60	CR	1.00		0.40		
68	IX-075		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
88	IX-076		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
67	IX-077		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
31	IX-078		0.60		1.00		0.40		0.60		1.00		0.40		0.60		1.00	CO	0.40		
12	IX-079		0.60		1.00	BR	0.40		0.60		1.00	BR	0.40		0.60		1.00	BR	0.40		
23	IX-080		0.60		1.00		0.40		0.60		1.00		0.40		0.60		1.00		0.40		
26	IX-081		0.60		1.00	CO	0.40		0.60		1.00	BR	0.40		0.60		1.00		0.40		
27	IX-082		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
27	IX-083		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
26	IX-084		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00		0.40		
66	IX-085		0.60		1.00	CO	0.40		0.60		1.00		0.40		0.60		1.00				

I-6-B Repair Costs of Region IX (6)
Damage Code and Damage Ratio of Substructure

LRA No.	Bridge No.	Damage Code of Substructure																	
		A1				P1				P2				P2					
		Concrete	D Ratio	Steel	D Ratio	Timber	D Ratio	Concrete	D Ratio	Steel	D Ratio	Timber	D Ratio	Concrete	D Ratio	Steel	D Ratio	Timber	D Ratio
35	IX-001		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
35	IX-002		0.005		1.00		0.40	SP	0.005		1.00		0.40	SP	0.005		1.00		0.40
36	IX-003		0.005		1.00	CO	0.40		0.005		1.00		0.40		0.005		1.00		0.40
40	IX-004		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
40	IX-005		0.005		1.00		0.40		0.005		1.00	CO	0.40		0.005		1.00		0.40
40	IX-006		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
41	IX-007		0.005		1.00		0.40		0.005		1.00	CO	0.40		0.005		1.00		0.40
42	IX-008		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
42	IX-009	CO	0.005		1.00		0.40		0.005		1.00	CO	0.40		0.005		1.00	CO	0.40
39	IX-010		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
39	IX-011		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
34	IX-012	CR	0.005		1.00	CR	0.40	CR	0.005		1.00	CR	0.40	CR	0.005		1.00	CR	0.40
33	IX-013		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
78	IX-014		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
54	IX-015		0.005		1.00		0.40		0.005		1.00	SE	0.40		0.005		1.00	SE	0.40
56	IX-016		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
57	IX-017		0.005		1.00	CR	0.40		0.005		1.00	CR	0.40		0.005		1.00	CR	0.40
58	IX-018		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
59	IX-019		0.005		1.00		0.40	SP	0.005		1.00		0.40		0.005		1.00		0.40
59	IX-020		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
63	IX-021		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
61	IX-022		0.005		1.00	CR	0.40		0.005		1.00	CR	0.40		0.005		1.00		0.40
72	IX-023		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
62	IX-024	SP	0.005		1.00		0.40	CO	0.005		1.00		0.40	CO	0.005		1.00		0.40
75	IX-025		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
75	IX-026		0.005		1.00		0.40	CO	0.005		1.00		0.40		0.005		1.00		0.40
74	IX-027		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
73	IX-028		0.005		1.00		0.40	CO	0.005		1.00		0.40		0.005		1.00		0.40
60	IX-029		0.005		1.00	CR	0.40		0.005		1.00		0.40		0.005		1.00		0.40
46	IX-030		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
45	IX-031		0.005		1.00		0.40	SC	0.005		1.00		0.40	SC	0.005		1.00		0.40
64	IX-032	CO	0.005	CO	1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
66	IX-033		0.005		1.00	CO	0.40		0.005		1.00	CO	0.40		0.005		1.00	CO	0.40
65	IX-034		0.005		1.00	CO	0.40		0.005		1.00	CR	0.40		0.005		1.00	CO	0.40
47	IX-035		0.005		1.00		0.40	CO	0.005		1.00		0.40		0.005		1.00		0.40
48	IX-036		0.005		1.00	CO	0.40		0.005		1.00	CO	0.40		0.005		1.00		0.40
49	IX-037	CO	0.005		1.00		0.40	CO	0.005		1.00		0.40		0.005		1.00		0.40
49	IX-038		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
50	IX-039	SC	0.005		1.00		0.40	SC	0.005		1.00		0.40		0.005		1.00		0.40
77	IX-040	CO	0.005		1.00	CO	0.40	CO	0.005		1.00		0.40		0.005		1.00		0.40
77	IX-041		0.005		1.00		0.40		0.005		1.00	CO	0.40		0.005		1.00		0.40
53	IX-042		0.005		1.00	CO	0.40		0.005		1.00		0.40		0.005		1.00		0.40
52	IX-043		0.005		1.00	CO	0.40		0.005		1.00		0.40		0.005		1.00		0.40
54	IX-044		0.005		1.00	CO	0.40		0.005		1.00	CR	0.40		0.005		1.00	CR	0.40
32	IX-045		0.005		1.00		0.40		0.005		1.00	CO	0.40		0.005		1.00		0.40
55	IX-046		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
18	IX-047		0.005		1.00		0.40		0.005		1.00	SP	0.40		0.005		1.00		0.40
71	IX-048	SC	0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
71	IX-049		0.005		1.00	CR	0.40	CR	0.005		1.00	CR	0.40		0.005		1.00		0.40
7	IX-050	CO	0.005		1.00		0.40	CR	0.005		1.00		0.40		0.005		1.00		0.40
13	IX-051	CR	0.005	CO	1.00		0.40	CR	0.005	CR	1.00		0.40		0.005		1.00		0.40
13	IX-052		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
13	IX-053		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
13	IX-054		0.005		1.00		0.40	SP	0.005		1.00		0.40		0.005		1.00		0.40
13	IX-055	SP	0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
15	IX-056		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
25	IX-057		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
11	IX-058		0.005		1.00		0.40	CO	0.005		1.00	CO	0.40	CO	0.005		1.00	CO	0.40
10	IX-059		0.005		1.00		0.40	CO	0.005		1.00	CO	0.40		0.005		1.00		0.40
11	IX-060		0.005		1.00		0.40		0.005		1.00	CR	0.40		0.005		1.00	CR	0.40
10	IX-061		0.005		1.00		0.40		0.005		1.00	CR	0.40		0.005		1.00		0.40
30	IX-062		0.005		1.00	CO	0.40		0.005		1.00	CR	0.40		0.005		1.00		0.40
22	IX-063		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
22	IX-064		0.005		1.00		0.40	SP	0.005		1.00		0.40	CO	0.005		1.00		0.40
24	IX-065		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
17	IX-066		0.005		1.00		0.40		0.005		1.00	CR	0.40	CO	0.005	CO	1.00	CO	0.40
5	IX-067		0.005		1.00	CR	0.40		0.005		1.00		0.40		0.005		1.00		0.40
5	IX-068		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
9	IX-069		0.005		1.00	CO	0.40		0.005		1.00	CR	0.40		0.005		1.00	CR	0.40
4	IX-070		0.005		1.00		0.40		0.005		1.00	CR	0.40		0.005		1.00		0.40
19	IX-071		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
20	IX-072	CO	0.005		1.00		0.40	SP	0.005		1.00		0.40		0.005		1.00		0.40
21	IX-073		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
1	IX-074		0.005		1.00		0.40		0.005		1.00	CO	0.40		0.005		1.00	CO	0.40
64	IX-075	CO	0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
64	IX-076		0.005		1.00	CO	0.40		0.005		1.00	CO	0.40		0.005		1.00		0.40
67	IX-077		0.005		1.00	CO	0.40		0.005		1.00	BR	0.40		0.005		1.00		0.40
31	IX-078		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
12	IX-079		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
23	IX-080	CR	0.005		1.00		0.40	CO	0.005		1.00		0.40	CO	0.005		1.00		0.40
26	IX-081	CO	0.005		1.00		0.40	CO	0.005		1.00		0.40	CO	0.005		1.00		0.40
27	IX-082	CO	0.005		1.00	CO	0.40	CO	0.005		1.00	CO	0.40		0.005		1.00		0.40
27	IX-083		0.005		1.00	CO	0.40		0.005		1.00		0.40		0.005		1.00		0.40
28	IX-084	CO	0.005																

I-6-B Repair Costs of Region IX (7)
Damage Code and Damage Ratio of Substructure

Link No.	Bridge No.	Damage Code of Substructure																	
		P2						P1						P5					
		Concrete	D Ratio	Steel	D Ratio	Timber	D Ratio	Concrete	D Ratio	Steel	D Ratio	Timber	D Ratio	Concrete	D Ratio	Steel	D Ratio	Timber	D Ratio
33	IX-001		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
35	IX-002		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
36	IX-003		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
40	IX-004		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
40	IX-005		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
40	IX-006		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
41	IX-007		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
42	IX-008		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
42	IX-009		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
39	IX-010		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
39	IX-011		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
34	IX-012	CR	0.005		1.00	CR	0.40	CR	0.005		1.00	CR	0.40		0.005		1.00		0.40
33	IX-013		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
28	IX-014		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
56	IX-015		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
55	IX-016		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
57	IX-017		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
58	IX-018		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
59	IX-019		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
59	IX-020		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
63	IX-021		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
61	IX-022		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
72	IX-023		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
62	IX-024		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
75	IX-025		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
75	IX-026		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
74	IX-027		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
73	IX-028		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
60	IX-029		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
48	IX-030		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
45	IX-031		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
64	IX-032	SC	0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
56	IX-033		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
65	IX-034		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
47	IX-035		0.005		1.00	CO	0.40		0.005		1.00	CR	0.40		0.005		1.00		0.40
48	IX-036		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
49	IX-037		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
49	IX-038		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
50	IX-039		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
77	IX-040	CO	0.005		1.00	CO	0.40		0.005		1.00		0.40		0.005		1.00		0.40
77	IX-041		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
53	IX-042		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
52	IX-043		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
54	IX-044		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
32	IX-045		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
55	IX-046		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
18	IX-047		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
71	IX-048		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
71	IX-049		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
7	IX-050		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
4	IX-051		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
12	IX-052		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
13	IX-053		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
13	IX-054		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
13	IX-055		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
15	IX-056		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
25	IX-057		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
11	IX-058		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
10	IX-059		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
11	IX-060		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
10	IX-061		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
10	IX-062		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
22	IX-063		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
22	IX-064		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
24	IX-065		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
17	IX-066		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
5	IX-067		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
5	IX-068		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
9	IX-069		0.005		1.00	CR	0.40		0.005		1.00	CR	0.40		0.005		1.00		0.40
8	IX-070		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
19	IX-071		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
20	IX-072		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
21	IX-073		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
1	IX-074	CO	0.005		1.00	CO	0.40	CO	0.005		1.00	CO	0.40		0.005		1.00		0.40
68	IX-075		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
68	IX-076		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
67	IX-077		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
31	IX-078		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
12	IX-079		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
23	IX-080		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
26	IX-081		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
27	IX-082		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
27	IX-083		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
28	IX-084		0.005		1.00		0.40		0.005		1.00		0.40		0.005		1.00		0.40
66	IX-085		0.005		1.00		0.40		0.005		1.00		0.40		0.00				

I-6-B Repair Costs of Region IX (10)

Bridge Description		Unit Cost of Damage for Superstructure								
L-R No.	Bridge No.	P3 F4			P4 P5			P5 P6		
		Concrete	Steel	Timber	Concrete	Steel	Timber	Concrete	Steel	Timber
35	IX-001	0	0	0	0	0	0	0	0	0
35	IX-002	0	0	0	0	0	0	0	0	0
36	IX-003	0	0	0	0	0	0	0	0	0
40	IX-004	0	0	0	0	0	0	0	0	0
40	IX-005	0	0	0	0	0	0	0	0	0
40	IX-006	0	0	0	0	0	0	0	0	0
41	IX-007	0	0	0	0	0	0	0	0	0
42	IX-008	0	0	0	0	0	0	0	0	0
42	IX-009	0	0	0	0	0	0	0	0	0
39	IX-010	0	0	0	0	0	0	0	0	0
39	IX-011	0	0	0	0	0	0	0	0	0
34	IX-012	0	0	25,800	0	0	0	0	0	0
33	IX-013	0	0	0	0	0	0	0	0	0
78	IX-214	0	0	0	0	0	0	0	0	0
56	IX-015	0	0	0	0	0	0	0	0	0
56	IX-016	0	0	0	0	0	0	0	0	0
57	IX-017	0	0	0	0	0	0	0	0	0
58	IX-018	0	0	0	0	0	0	0	0	0
59	IX-019	0	0	25,800	0	0	0	0	0	0
59	IX-020	0	0	0	0	0	0	0	0	0
63	IX-021	0	0	0	0	0	0	0	0	0
61	IX-022	0	0	0	0	0	0	0	0	0
72	IX-023	0	0	0	0	0	0	0	0	0
82	IX-024	0	0	0	0	0	0	0	0	0
75	IX-025	0	0	0	0	0	0	0	0	0
75	IX-026	0	0	0	0	0	0	0	0	0
74	IX-027	0	0	0	0	0	0	0	0	0
73	IX-028	0	0	0	0	0	0	0	0	0
69	IX-029	0	0	0	0	0	0	0	0	0
46	IX-030	0	0	0	0	0	0	0	0	0
45	IX-031	0	0	0	0	0	0	0	0	0
64	IX-032	0	29,400	0	0	34,600	0	0	0	0
66	IX-033	0	0	0	0	0	0	0	0	0
65	IX-034	0	0	25,800	0	0	0	0	0	0
67	IX-035	0	0	0	0	0	0	0	0	0
48	IX-036	0	0	0	0	0	0	0	0	0
49	IX-037	0	0	0	0	0	0	0	0	0
49	IX-038	0	0	0	0	0	0	0	0	0
50	IX-039	0	0	0	0	0	0	0	0	0
77	IX-040	0	0	0	0	0	0	0	0	0
71	IX-041	0	0	0	0	0	0	0	0	0
53	IX-042	0	0	0	0	0	0	0	0	0
52	IX-043	0	0	0	0	0	0	0	0	0
54	IX-044	0	0	0	0	0	0	0	0	0
32	IX-045	0	0	0	0	0	0	0	0	0
55	IX-046	0	0	0	0	0	0	0	0	0
18	IX-047	0	0	0	0	0	0	0	0	0
71	IX-048	0	0	0	0	0	0	0	0	0
71	IX-049	0	0	0	0	0	0	0	0	0
7	IX-050	0	0	0	0	0	0	0	0	0
6	IX-051	0	0	0	0	0	0	0	0	0
13	IX-052	0	0	0	0	0	0	0	0	0
13	IX-053	0	0	0	0	0	0	0	0	0
13	IX-054	0	0	0	0	0	0	0	0	0
13	IX-055	0	0	0	0	0	0	0	0	0
15	IX-056	0	0	0	0	0	0	0	0	0
25	IX-057	0	0	0	0	0	0	0	0	0
11	IX-058	0	0	0	0	0	0	0	0	0
10	IX-059	0	0	0	0	0	0	0	0	0
11	IX-060	0	0	0	0	0	0	0	0	0
19	IX-061	0	0	25,800	0	0	0	0	0	0
10	IX-062	0	0	0	0	0	0	0	0	0
22	IX-063	0	0	0	0	0	0	0	0	0
22	IX-064	0	0	0	0	0	0	0	0	0
24	IX-065	0	0	0	0	0	0	0	0	0
17	IX-066	0	0	0	0	0	0	0	0	0
5	IX-067	0	0	0	0	0	0	0	0	0
5	IX-068	0	0	0	0	0	0	0	0	0
9	IX-069	0	0	25,800	0	0	0	0	0	0
8	IX-070	0	0	0	0	0	0	0	0	0
19	IX-071	0	0	0	0	0	0	0	0	0
20	IX-072	0	0	0	0	0	0	0	0	0
23	IX-073	0	0	0	0	0	0	0	0	0
1	IX-074	0	29,400	0	0	29,400	0	0	0	0
68	IX-075	0	0	0	0	0	0	0	0	0
68	IX-076	0	0	0	0	0	0	0	0	0
67	IX-077	0	0	0	0	0	0	0	0	0
31	IX-078	0	0	0	0	0	0	0	0	0
12	IX-079	0	0	0	0	0	0	0	0	0
73	IX-080	0	0	0	0	0	0	0	0	0
26	IX-081	0	0	0	0	0	0	0	0	0
27	IX-082	0	0	0	0	0	0	0	0	0
27	IX-083	0	0	0	0	0	0	0	0	0
28	IX-084	0	0	0	0	0	0	0	0	0
66	IX-085	0	0	0	0	0	0	0	0	0
3	IX-086	0	0	25,800	0	0	25,800	0	0	25,800
29	IX-087	0	0	0	0	0	0	0	0	0
29	IX-088	0	0	0	0	0	0	0	0	0
30	IX-089	0	0	0	0	0	0	0	0	0
37	IX-090	0	0	0	0	0	0	0	0	0
38	IX-091	0	0	0	0	0	0	0	0	0
2	IX-092	0	0	0	0	0	0	0	0	0
2	IX-093	0	0	0	0	0	0	0	0	0
70	IX-094	0	0	0	0	0	0	0	0	0
16	IX-095	0	0	0	0	0	0	0	0	0
69	IX-096	0	0	0	0	0	0	0	0	0
69	IX-097	0	0	0	0	0	0	0	0	0
4	IX-098	0	0	25,800	0	0	25,800	0	0	25,800
51	IX-099	0	0	0	0	0	0	0	0	0
14	IX-100	0	0	0	0	0	0	0	0	0
43	IX-101	0	0	0	0	0	0	0	0	0
44	IX-102	0	0	0	0	0	0	0	0	0
76	IX-103	0	0	0	0	0	0	0	0	0
76	IX-104	0	0	0	0	0	0	0	0	0
76	IX-105	0	0	0	0	0	0	0	0	0
76	IX-106	0	0	0	0	0	0	0	0	0
76	IX-107	0	0	0	0	0	0	0	0	0
76	IX-108	0	0	0	0	0	0	0	0	0
76	IX-109	0	0	0	0	0	0	0	0	0
76	IX-110	0	0	0	0	0	0	0	0	0

I-6-B Repair Costs of Region IX (11)

Bridge Description		Unit Cost of Damage for Superstructure								
Link No.	Bridge No.	Superstructure Unit Cost			P2-F8			P5-A2		
		Concrete	PS F7 Steel	Timber	Concrete	Steel	Timber	Concrete	Steel	Timber
35	IX-001	0	0	0	0	0	0	0	0	0
35	IX-002	0	0	0	0	0	0	0	0	0
36	IX-003	0	0	0	0	0	0	0	0	0
40	IX-004	0	0	0	0	0	0	0	0	0
40	IX-005	0	0	0	0	0	0	0	0	0
40	IX-006	0	0	0	0	0	0	0	0	0
41	IX-007	0	0	0	0	0	0	0	0	0
42	IX-008	0	0	0	0	0	0	0	0	0
42	IX-009	0	0	0	0	0	0	0	0	0
39	IX-010	0	0	0	0	0	0	0	0	0
39	IX-011	0	0	0	0	0	0	0	0	0
35	IX-012	0	0	0	0	0	0	0	0	0
32	IX-013	0	0	0	0	0	0	0	0	25,800
29	IX-014	0	0	0	0	0	0	0	0	25,800
56	IX-015	0	0	0	0	0	0	0	0	25,800
56	IX-016	0	0	0	0	0	0	0	0	25,800
57	IX-017	0	0	0	0	0	0	0	0	0
58	IX-018	0	0	0	0	0	0	0	0	25,800
59	IX-019	0	0	0	0	0	0	0	0	25,800
59	IX-020	0	0	0	0	0	0	0	0	25,800
63	IX-021	0	0	0	0	0	0	0	31,600	0
63	IX-022	0	0	0	0	0	0	0	13,600	0
72	IX-023	0	0	0	0	0	0	0	0	25,800
62	IX-024	0	0	0	0	0	0	0	0	0
75	IX-025	0	0	0	0	0	0	0	11,600	0
75	IX-026	0	0	0	0	0	0	0	0	0
74	IX-027	0	0	0	0	0	0	0	0	25,800
73	IX-028	0	0	0	0	0	0	0	0	0
69	IX-029	0	0	0	0	0	0	0	0	25,800
46	IX-030	0	0	0	0	0	0	0	0	0
45	IX-031	0	0	0	0	0	0	0	0	0
64	IX-032	0	0	0	0	0	0	0	31,600	25,800
66	IX-033	0	0	0	0	0	0	0	0	25,800
65	IX-034	0	0	0	0	0	0	0	0	25,800
47	IX-035	0	0	0	0	0	0	0	0	25,800
48	IX-036	0	0	0	0	0	0	0	13,600	0
49	IX-037	0	0	0	0	0	0	0	0	0
49	IX-038	0	0	0	0	0	0	0	0	25,800
50	IX-039	0	0	0	0	0	0	0	0	25,800
77	IX-040	0	0	0	0	0	0	0	0	0
77	IX-041	0	0	0	0	0	0	0	0	25,800
53	IX-042	0	0	0	0	0	0	0	0	0
52	IX-043	0	0	0	0	0	0	0	0	0
54	IX-044	0	0	0	0	0	0	0	0	25,800
52	IX-045	0	0	0	0	0	0	0	0	0
55	IX-046	0	0	0	0	0	0	0	0	25,800
18	IX-047	0	0	0	0	0	0	0	0	0
71	IX-048	0	0	0	0	0	0	0	0	0
71	IX-049	0	0	0	0	0	0	0	0	0
7	IX-050	0	0	0	0	0	0	0	0	25,800
6	IX-051	0	0	0	0	0	0	0	0	25,800
13	IX-052	0	0	0	0	0	0	0	0	0
13	IX-053	0	0	0	0	0	0	0	0	25,800
13	IX-054	0	0	0	0	0	0	0	0	0
13	IX-055	0	0	0	0	0	0	0	0	0
15	IX-056	0	0	0	0	0	0	0	0	0
25	IX-057	0	0	0	0	0	0	0	0	0
11	IX-058	0	0	0	0	0	0	0	0	25,800
30	IX-059	0	0	0	0	0	0	0	0	25,800
11	IX-060	0	0	0	0	0	0	0	0	25,800
30	IX-061	0	0	0	0	0	0	0	0	0
30	IX-062	0	0	0	0	0	0	0	0	25,800
22	IX-063	0	0	0	0	0	0	0	0	25,800
22	IX-064	0	0	0	0	0	0	0	0	25,800
24	IX-065	0	0	0	0	0	0	0	0	0
17	IX-066	0	0	0	0	0	0	0	0	25,800
5	IX-067	0	0	0	0	0	0	0	0	0
5	IX-068	0	0	0	0	0	0	0	0	0
9	IX-069	0	0	0	0	0	0	0	0	25,800
8	IX-070	0	0	0	0	0	0	0	0	25,800
19	IX-071	0	0	0	0	0	0	0	0	25,800
20	IX-072	0	0	0	0	0	0	0	0	0
21	IX-073	0	0	0	0	0	0	0	0	0
1	IX-074	0	0	0	0	0	0	0	13,600	0
68	IX-075	0	0	0	0	0	0	0	0	0
68	IX-076	0	0	0	0	0	0	0	0	25,800
67	IX-077	0	0	0	0	0	0	0	0	25,800
54	IX-078	0	0	0	0	0	0	0	0	0
12	IX-079	0	0	0	0	0	0	0	0	25,800
23	IX-080	0	0	0	0	0	0	0	0	0
26	IX-081	0	0	0	0	0	0	0	0	25,800
27	IX-082	0	0	0	0	0	0	0	0	25,800
27	IX-083	0	0	0	0	0	0	0	0	0
28	IX-084	0	0	0	0	0	0	0	0	0
66	IX-085	0	0	0	0	0	0	0	0	25,800
3	IX-086	0	0	0	0	0	0	0	0	25,800
29	IX-087	0	0	25,800	0	0	0	0	0	25,800
29	IX-088	0	0	0	0	0	0	0	0	0
30	IX-089	0	0	0	0	0	0	0	0	25,800
37	IX-090	0	0	0	0	0	0	0	0	25,800
38	IX-091	0	0	0	0	0	0	0	0	25,800
2	IX-092	0	0	0	0	0	0	0	0	25,800
2	IX-093	0	0	0	0	0	0	0	0	25,800
70	IX-094	0	0	0	0	0	0	0	0	0
15	IX-095	0	0	0	0	0	0	0	0	25,800
69	IX-096	0	0	0	0	0	0	0	0	25,800
69	IX-097	0	0	0	0	0	0	0	0	25,800
4	IX-098	0	0	25,800	0	0	0	0	0	25,800
51	IX-099	0	0	0	0	0	0	0	0	25,800
14	IX-100	0	0	0	0	0	0	0	0	25,800
43	IX-101	0	0	0	0	0	0	0	0	0
44	IX-102	0	0	0	0	0	0	0	0	0
76	IX-103	0	0	0	0	0	0	0	0	0
76	IX-104	0	0	0	0	0	0	0	0	0
76	IX-105	0	0	0	0	0	0	0	0	0
76	IX-106	0	0	0	0	0	0	0	0	0
76	IX-107	0	0	0	0	0	0	0	0	0
76	IX-108	0	0	0	0	0	0	0	0	0
76	IX-109	0	0	0	0	0	0	0	0	25,800
76	IX-110	0	0	0	0	0	0	0	0	25,800

I-6-B Repair Costs of Region IX (12)

Bridge Description		Substructure Unit Cost											
Link No.	Bridge No.	A1			P1			P2			P3		
		Concrete	Steel	Timber	Concrete	Steel	Timber	Concrete	Steel	Timber	Concrete	Steel	Timber
35	IX-001	0	0	0	0	0	0	0	0	0	0	0	0
35	IX-002	0	0	0	6,500	0	0	6,500	0	0	0	0	0
36	IX-003	0	0	18,000	0	0	0	0	0	0	0	0	0
40	IX-004	0	0	0	0	0	0	0	0	0	0	0	0
40	IX-005	0	0	0	0	0	18,000	0	0	0	0	0	0
40	IX-006	0	0	0	0	0	0	0	0	0	0	0	0
41	IX-007	0	0	0	0	0	18,000	0	0	0	0	0	0
42	IX-008	0	0	0	0	0	0	0	0	0	0	0	0
42	IX-009	9,300	0	0	0	0	0	0	0	0	0	0	0
29	IX-010	0	0	0	0	0	18,000	0	0	18,000	0	0	0
29	IX-011	0	0	0	0	0	0	0	0	0	0	0	0
34	IX-012	25,300	0	18,000	25,300	0	18,000	25,300	0	18,000	25,300	0	18,000
33	IX-013	0	0	0	0	0	0	0	0	0	0	0	0
78	IX-014	0	0	0	0	0	0	0	0	0	0	0	0
56	IX-015	0	0	0	0	0	FALSE	0	0	FALSE	0	0	0
56	IX-016	0	0	0	0	0	0	0	0	0	0	0	0
57	IX-017	0	0	18,000	0	0	18,000	0	0	18,000	0	0	0
58	IX-018	0	0	0	0	0	0	0	0	0	0	0	0
59	IX-019	0	0	0	6,500	0	0	6,500	0	0	0	0	0
59	IX-020	0	0	0	0	0	0	0	0	0	0	0	0
63	IX-021	0	0	0	0	0	0	0	0	0	0	0	0
61	IX-022	0	0	18,000	0	0	18,000	0	0	0	0	0	0
72	IX-023	0	0	0	0	0	0	0	0	0	0	0	0
62	IX-024	6,500	0	0	9,300	0	0	9,300	0	0	0	0	0
75	IX-025	0	0	0	0	0	0	0	0	0	0	0	0
75	IX-026	0	0	0	9,300	0	0	9,300	0	0	0	0	0
74	IX-027	0	0	0	0	0	0	0	0	0	0	0	0
73	IX-028	0	0	0	9,300	0	0	9,300	0	0	0	0	0
60	IX-029	0	0	18,000	0	0	0	0	0	0	0	0	0
46	IX-030	0	0	0	0	0	0	0	0	0	0	0	0
45	IX-031	0	0	0	8,800	0	0	8,800	0	0	0	0	0
64	IX-032	9,300	12,400	0	0	0	0	0	0	0	8,800	0	0
66	IX-033	0	0	18,000	0	0	18,000	0	0	18,000	0	0	15,000
65	IX-034	0	0	18,000	0	0	18,000	0	0	18,000	0	0	18,000
47	IX-035	0	0	0	9,300	0	0	9,300	0	0	0	0	0
48	IX-036	0	0	18,000	0	0	18,000	0	0	0	0	0	0
49	IX-037	9,300	0	0	9,300	0	0	9,300	0	0	0	0	0
49	IX-038	0	0	0	0	0	0	0	0	0	0	0	0
50	IX-039	8,800	0	0	8,800	0	0	8,800	0	0	0	0	0
77	IX-040	9,300	0	18,000	9,300	0	18,000	9,300	0	18,000	9,300	0	18,000
77	IX-041	0	0	0	0	0	18,000	0	0	0	0	0	0
53	IX-042	0	0	18,000	0	0	0	0	0	0	0	0	0
52	IX-043	0	0	18,000	0	0	0	0	0	0	0	0	0
54	IX-044	0	0	18,000	0	0	18,000	0	0	18,900	0	0	0
32	IX-045	0	0	0	0	0	0	0	0	0	0	0	0
55	IX-046	0	0	0	0	0	18,000	0	0	0	0	0	18,000
18	IX-047	0	0	0	0	0	FALSE	0	0	0	0	0	0
71	IX-048	8,800	0	0	0	0	0	0	0	0	0	0	0
71	IX-049	0	0	18,000	0	0	0	0	0	0	0	0	0
7	IX-050	9,300	0	18,000	25,300	0	18,000	19,000	0	0	0	0	0
6	IX-051	25,300	12,400	0	25,300	24,500	0	0	0	0	0	0	0
13	IX-052	25,300	0	0	0	0	0	0	0	0	0	0	0
13	IX-053	0	0	0	0	0	0	0	0	0	0	0	0
13	IX-054	0	0	0	6,500	0	0	6,500	0	0	0	0	0
13	IX-055	6,500	0	0	0	0	0	0	0	0	0	0	0
15	IX-056	0	0	0	0	0	0	0	0	0	0	0	0
25	IX-057	0	0	0	0	0	0	0	0	0	0	0	0
11	IX-058	0	0	0	9,300	0	18,000	9,300	0	18,000	0	0	0
10	IX-059	0	0	0	9,300	0	18,000	9,300	0	18,000	0	0	0
18	IX-060	0	0	0	0	0	18,000	0	0	18,000	0	0	0
10	IX-061	0	0	18,000	0	0	18,000	0	0	18,000	0	0	0
10	IX-062	0	0	18,000	0	0	18,000	0	0	18,000	0	0	0
22	IX-063	0	0	0	6,500	0	0	6,500	0	0	0	0	0
22	IX-064	0	0	0	0	0	0	9,300	0	0	0	0	0
24	IX-065	0	0	0	0	0	0	0	0	0	0	0	0
17	IX-066	0	0	0	0	473,800	0	9,300	12,400	18,000	0	0	0
5	IX-067	0	0	18,000	0	0	0	0	0	0	0	0	0
5	IX-068	0	0	0	0	0	0	0	0	0	0	0	0
9	IX-069	0	0	18,000	0	0	18,000	0	0	18,000	0	0	18,000
8	IX-070	0	0	0	0	0	18,000	0	0	0	0	0	0
29	IX-071	0	0	0	0	0	0	0	0	0	0	0	0
20	IX-072	9,300	0	0	6,500	0	0	6,500	0	0	0	0	0
21	IX-073	0	0	0	0	0	0	0	0	0	0	0	0
1	IX-074	0	0	0	0	0	0	9,300	0	18,000	9,300	0	18,000
68	IX-075	9,300	0	0	0	0	0	0	0	0	0	0	0
68	IX-076	0	0	18,000	0	0	18,000	0	0	0	0	0	0
67	IX-077	0	0	18,000	0	0	18,000	0	0	0	0	0	0
31	IX-078	0	0	0	0	0	0	0	0	0	0	0	0
12	IX-079	0	0	0	0	0	0	0	0	0	0	0	0
23	IX-080	25,300	0	0	9,300	0	0	9,300	0	0	0	0	0
26	IX-081	9,300	0	0	9,300	0	0	9,300	0	0	0	0	0
27	IX-082	9,300	0	18,000	9,300	0	18,000	9,300	0	0	0	0	0
27	IX-083	0	0	18,000	0	0	0	0	0	0	0	0	0
28	IX-084	9,300	0	0	0	0	0	0	0	0	0	0	0
68	IX-085	0	0	18,000	0	0	18,000	0	0	0	0	0	0
3	IX-086	0	0	0	25,300	0	0	25,300	0	0	25,300	0	0
29	IX-087	0	0	0	0	0	0	0	0	0	0	0	0
29	IX-088	25,300	0	0	0	0	0	0	0	0	0	0	0
30	IX-089	0	0	0	0	0	FALSE	0	0	0	0	0	0
37	IX-090	9,300	0	0	25,300	0	0	25,300	0	0	0	0	0
36	IX-091	0	0	18,000	0	0	18,000	9,300	0	0	0	0	18,000
2	IX-092	0	24,500	18,000	0	0	24,500	18,000	24,500	18,000	0	0	0
70	IX-093	0	0	18,000	0	0	0	0	0	0	0	0	0
70	IX-094	6,500	0	0	0	0	0	0	0	0	0	0	0
16	IX-095	0	12,400	18,000	0	0	12,400	18,000	9,300	12,400	0	0	0
69	IX-096	0	0	0	0	0	0	0	0	0	0	0	0
69	IX-097	0	0	0	0	9,300	12,400	0	0	0	0	0	0
4	IX-098	0	0	0	0	6,500	0	0	0	0	0	0	0
51	IX-099	9,300	0	0	9,300	0	0	9,300	0	0	9,300	0	0
14	IX-100	0	0	0	0	0	18,000	0	0	0	0	0	0
43	IX-101	0	0	0	0	0	0	0	0	0	0	0	0
44	IX-102	0	0	0	0	0	0	0	0	0	0	0	0
78	IX-103	0	0	18,000	0	0	0	0	0	0	0	0	0
78	IX-104	0	0	18,000	0	0	0	0	0	0	0	0	0
78	IX-105	0	0	18,000	0	0	0	0	0	0	0	0	0
78	IX-106	0	0	18,000	0	0	0	0	0	0	0	0	0
78	IX-107	0	0	18,000	0	0	0	0	0	0	0	0	0
78	IX-108	0	0	18,000	0	0	0	0	0	0	0	0	0
78	IX-109	0	0	18,000	0	0	0	0	0	0	0	0	0
78	IX-110	0	0	18,000	0	0	0	0	0	0	0	0	0

I-6-B Repair Costs of Region IX (14)

Bridge Description Link No.	Bridge No.	Superstructure Cost			Damage Cost of Superstructure								
		Concrete	A1-P1 Steel	Timber	Concrete	P1-P2 Steel	Timber	Concrete	P2-P3 Steel	Timber	Concrete	P3-P4 Steel	Timber
35	IX-001	0	0	342,824	0	0	370,740	0	0	350,880	0	0	0
35	IX-002	0	0	308,262	0	0	856,560	0	0	312,644	0	0	0
36	IX-003	0	0	371,520	0	0	0	0	0	0	0	0	0
40	IX-004	0	1,316,490	0	0	0	0	0	0	0	0	0	0
40	IX-005	0	0	324,564	0	0	305,472	0	0	0	0	0	0
43	IX-006	0	0	122,292	0	0	407,640	0	0	0	0	0	0
43	IX-007	0	0	274,770	0	0	479,880	0	0	0	0	0	0
42	IX-008	0	0	381,840	0	0	0	0	0	0	0	0	0
42	IX-009	0	0	480,564	0	0	0	0	0	0	0	0	0
39	IX-010	0	0	311,148	0	0	422,604	0	0	278,640	0	0	0
39	IX-011	0	0	388,692	0	0	0	0	0	0	0	0	0
34	IX-012	736,558	0	270,281	0	0	280,291	0	0	480,458	0	0	765,276
33	IX-013	0	0	0	0	0	0	0	0	0	0	0	0
78	IX-014	0	0	272,607	0	0	0	0	0	0	0	0	0
56	IX-015	0	0	313,792	0	0	329,724	0	0	0	0	0	0
56	IX-016	0	0	0	0	0	0	0	0	0	0	0	0
57	IX-017	0	0	332,820	0	0	328,382	0	0	346,133	0	0	0
58	IX-018	0	0	405,421	0	0	795,827	0	0	0	0	0	0
59	IX-019	0	0	425,442	0	0	405,421	0	0	0	0	0	425,442
59	IX-020	0	1,056,559	0	0	0	0	0	0	0	0	0	0
63	IX-021	0	1,232,232	0	0	0	0	0	0	0	0	0	0
63	IX-022	0	0	351,293	0	0	0	0	0	0	0	0	0
72	IX-023	0	1,150,560	0	0	0	0	0	0	0	0	0	0
62	IX-024	0	1,290,844	0	0	629,680	0	0	0	0	0	0	0
73	IX-025	0	0	440,670	0	0	0	0	0	0	0	0	0
73	IX-026	0	0	474,720	0	0	0	0	0	0	0	0	0
74	IX-027	0	0	1,066,448	0	0	0	0	0	0	0	0	0
72	IX-028	0	0	602,583	0	0	0	0	0	0	0	0	0
60	IX-029	0	10,413,421	0	0	0	0	0	0	0	0	0	0
46	IX-030	0	0	451,297	0	0	0	0	0	0	0	0	0
45	IX-031	0	0	310,632	0	0	386,871	0	0	0	0	0	0
64	IX-032	0	1,615,000	0	0	3,491,250	0	0	3,491,250	0	0	3,491,250	0
66	IX-033	0	0	372,366	0	0	385,039	0	0	0	0	0	0
65	IX-034	0	0	502,295	0	0	569,512	0	0	579,571	0	0	579,571
47	IX-035	0	393,865	0	0	901,257	0	0	0	0	0	0	0
48	IX-036	0	428,296	0	0	0	0	0	0	0	0	0	0
49	IX-037	0	0	399,540	0	0	0	0	0	0	0	0	0
49	IX-038	0	0	222,499	0	0	0	0	0	0	0	0	0
50	IX-039	0	0	358,723	0	0	0	0	0	0	0	0	0
77	IX-040	0	0	412,800	0	0	427,800	0	0	387,000	0	0	0
77	IX-041	0	0	439,219	0	0	0	0	0	0	0	0	0
53	IX-042	0	0	407,434	0	0	0	0	0	0	0	0	0
52	IX-043	0	0	380,244	0	0	0	0	0	0	0	0	0
54	IX-044	0	0	353,584	0	0	415,700	0	0	0	0	0	0
32	IX-045	0	0	0	0	0	0	0	0	0	0	0	0
55	IX-046	0	0	445,824	0	0	445,824	0	0	650,778	0	0	0
38	IX-047	0	0	232,716	0	0	224,754	0	0	0	0	0	0
71	IX-048	0	0	392,150	0	0	0	0	0	0	0	0	0
71	IX-049	0	446,080	0	0	0	0	0	0	0	0	0	0
7	IX-050	0	0	423,946	0	0	0	0	0	0	0	0	0
6	IX-051	0	0	300,415	0	0	0	0	0	0	0	0	0
13	IX-052	0	0	0	0	0	0	0	0	0	0	0	0
13	IX-053	0	0	452,738	0	0	401,964	0	0	0	0	0	0
13	IX-054	0	0	414,554	0	0	394,430	0	0	0	0	0	0
13	IX-055	0	0	199,745	0	0	177,091	0	0	0	0	0	0
15	IX-056	0	0	296,134	0	0	351,190	0	0	0	0	0	0
25	IX-057	0	0	0	0	0	0	0	0	0	0	0	0
11	IX-058	0	0	510,199	0	0	394,946	0	0	0	0	0	0
10	IX-059	0	0	204,336	0	0	0	0	0	0	0	0	0
11	IX-060	0	0	545,928	0	0	265,843	0	0	0	0	0	0
10	IX-061	0	0	133,128	0	0	331,820	0	0	319,507	0	0	119,815
10	IX-062	0	0	304,646	0	0	0	0	0	0	0	0	0
22	IX-063	0	0	206,400	0	0	222,912	0	0	0	0	0	0
22	IX-064	0	0	516,206	0	0	440,045	0	0	0	0	0	0
24	IX-065	0	0	476,592	0	0	0	0	0	0	0	0	0
17	IX-066	0	0	630,449	0	0	388,137	0	0	0	0	0	0
5	IX-067	0	0	313,728	0	0	0	0	0	0	0	0	0
5	IX-068	0	0	699,263	0	0	0	0	0	0	0	0	0
9	IX-069	0	0	385,968	0	0	372,546	0	0	449,579	0	0	354,182
8	IX-070	0	0	116,719	0	0	0	0	0	0	0	0	0
19	IX-071	0	0	308,724	0	0	0	0	0	0	0	0	0
20	IX-072	0	0	289,683	0	0	0	0	0	0	0	0	0
21	IX-073	0	0	0	0	0	0	0	0	0	0	0	0
1	IX-074	0	1,615,030	0	0	1,594,650	0	0	1,594,650	0	0	1,594,650	0
68	IX-075	0	0	376,583	0	0	0	0	0	0	0	0	0
68	IX-076	0	0	394,740	0	0	0	0	0	0	0	0	0
67	IX-077	0	0	431,479	0	0	0	0	0	0	0	0	0
31	IX-078	0	0	0	0	0	0	0	0	371,530	0	0	0
12	IX-079	0	0	370,585	0	0	370,385	0	0	290,198	0	0	0
23	IX-080	0	0	0	0	0	0	0	0	0	0	0	0
26	IX-081	0	0	227,556	0	0	243,108	0	0	0	0	0	0
27	IX-082	0	0	171,828	0	0	0	0	0	0	0	0	0
27	IX-083	0	0	495,650	0	0	0	0	0	0	0	0	0
28	IX-084	0	0	516,200	0	0	0	0	0	0	0	0	0
66	IX-085	0	0	762,854	0	0	0	0	0	0	0	0	0
3	IX-086	0	0	4272,495	0	0	0	0	0	0	0	0	0
24	IX-087	0	0	326,978	0	0	417,754	0	0	426,835	0	0	0
29	IX-088	0	2,682,552	0	0	0	0	0	0	0	0	0	0
30	IX-089	0	0	498,456	0	0	433,440	0	0	0	0	0	0
37	IX-090	0	0	457,063	0	0	826,932	0	0	494,451	0	0	0
38	IX-091	0	0	225,059	0	0	155,213	0	0	197,894	0	0	0
2	IX-092	0	0	329,724	0	0	464,400	0	0	0	0	0	0
2	IX-093	0	0	368,630	0	0	0	0	0	0	0	0	0
70	IX-094	0	0	0	0	0	0	0	0	0	0	0	0
16	IX-095	0	0	238,598	0	0	217,546	0	0	0	0	0	0
69	IX-096	0	0	287,258	0	0	383,182	0	0	0	0	0	0
69	IX-097	0	0	0	0	0	0	0	0	0	0	0	0
4	IX-098	0	0	330,740	0	0	330,240	0	0	330,240	0	0	330,240
53	IX-099	0	0	384,213	0	0	259,651	0	0	0	0	0	0
14	IX-100	0	0	255,906	0	0	0	0	0	0	0	0	0
43	IX-101	0	0	0	0	0	0	0	0	0	0	0	0
43	IX-102	0	0	0	0	0	0	0	0	0	0	0	0
76	IX-103	0	0	315,629	0	0	0	0	0	0	0	0	0
76	IX-104	0	0	455,917	0	0	0	0	0	0	0	0	0
76	IX-105	0	0	305,472	0	0	0	0	0	0	0	0	0
76	IX-106	0	0	426,825	0	0	0	0	0	0	0	0	0
76	IX-107	0	0	340,566	0	0	0	0	0	0	0	0	0
76	IX-108	0	0	399,534	0	0	0	0	0	0	0	0	0
76	IX-109	0	0	529,723	0	0	0	0	0	0	0	0	0
76	IX-110	0	0	273,841	0	0	0	0	0	0	0	0	0

1-6-B Repair Costs of Region IX (16)

Substructure Cost and Total Cost

Bridge Description	General cost of Substructure															
	Concrete	A1 Steel	Timber	Concrete	P1 Steel	Timber	Concrete	P2 Steel	Timber	Concrete	P3 Steel	Timber	Concrete	P4 Steel	Timber	
35 IX-001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35 IX-002	0	0	0	1,214	0	0	1,214	0	0	0	0	0	0	0	0	
36 IX-003	0	0	159,600	0	0	0	0	0	0	0	0	0	0	0	0	
40 IX-004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40 IX-005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40 IX-006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
41 IX-007	0	0	0	0	0	184,400	0	0	0	0	0	0	0	0	0	
42 IX-008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
42 IX-009	629	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
39 IX-010	0	0	0	0	0	223,590	0	0	0	0	0	0	0	0	0	
39 IX-011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34 IX-012	2,454	0	139,680	4,908	0	279,360	4,908	0	279,360	4,908	0	279,360	4,908	0	279,360	
33 IX-013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
78 IX-014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
55 IX-015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
56 IX-016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
57 IX-017	0	0	52,832	0	0	189,402	0	0	106,812	0	0	0	0	0	0	
58 IX-018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
59 IX-019	0	0	0	898	0	0	0	0	0	0	0	0	0	0	0	
57 IX-020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
63 IX-021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
61 IX-022	0	0	94,852	0	0	139,104	0	0	0	0	0	0	0	0	0	
72 IX-023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
62 IX-024	617	0	0	1,726	0	0	1,726	0	0	0	0	0	0	0	0	
75 IX-025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
75 IX-026	0	0	0	727	0	0	0	0	0	0	0	0	0	0	0	
74 IX-027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
73 IX-028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60 IX-029	0	0	112,040	0	0	0	0	0	0	0	0	0	0	0	0	
46 IX-030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45 IX-031	0	0	0	985	0	0	985	0	0	0	0	0	0	0	0	
64 IX-032	817	219,924	0	0	0	0	0	0	1,568	0	0	0	0	0	0	
64 IX-033	0	0	59,040	0	0	136,456	0	0	0	0	0	0	0	0	0	
65 IX-034	0	0	109,812	0	0	219,024	0	0	219,024	0	0	219,024	0	0	0	
47 IX-035	0	0	0	674	0	0	0	0	0	0	0	0	0	0	0	
48 IX-036	0	0	124,416	0	0	133,436	0	0	0	0	0	0	0	0	0	
49 IX-037	409	0	0	573	0	0	0	0	0	0	0	0	0	0	0	
49 IX-038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50 IX-039	348	0	0	697	0	0	0	0	0	0	0	0	0	0	0	
77 IX-040	498	0	106,000	1,295	0	216,000	0	0	1,295	0	0	216,000	0	0	0	
77 IX-041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
53 IX-042	0	0	135,260	0	0	0	0	0	0	0	0	0	0	0	0	
52 IX-043	0	0	43,240	0	0	0	0	0	0	0	0	0	0	0	0	
54 IX-044	0	0	73,339	0	0	146,678	0	0	146,678	0	0	0	0	0	0	
32 IX-045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
53 IX-046	0	0	0	0	0	762,656	0	0	0	0	0	261,656	0	0	0	
18 IX-047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
71 IX-048	301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
71 IX-049	0	0	41,200	0	0	0	0	0	0	0	0	0	0	0	0	
7 IX-050	808	0	125,136	2,448	0	139,356	0	0	0	0	0	0	0	0	0	
6 IX-051	2,697	264,368	0	2,697	522,340	0	0	0	0	0	0	0	0	0	0	
13 IX-052	577	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 IX-053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 IX-054	0	0	0	659	0	0	0	0	0	0	0	0	0	0	0	
13 IX-055	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15 IX-056	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25 IX-057	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 IX-058	0	0	0	0	0	157,896	1,620	0	117,896	0	0	0	0	0	0	
10 IX-059	0	0	0	519	0	80,352	0	0	0	0	0	0	0	0	0	
11 IX-060	0	0	0	0	0	139,104	0	0	139,104	0	0	0	0	0	0	
10 IX-061	0	0	0	0	0	85,688	0	0	85,688	0	0	0	0	0	0	
10 IX-062	0	0	31,104	0	0	72,576	0	0	0	0	0	0	0	0	0	
22 IX-063	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22 IX-064	0	0	0	913	0	0	1,335	0	0	0	0	0	0	0	0	
24 IX-065	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17 IX-066	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5 IX-067	0	0	54,720	0	0	0	0	0	0	0	0	0	0	0	0	
5 IX-068	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9 IX-069	0	0	95,040	0	0	221,760	0	0	221,760	0	0	221,760	0	0	221,760	
19 IX-070	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19 IX-071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20 IX-072	953	0	0	1,246	0	0	0	0	0	0	0	0	0	0	0	
21 IX-073	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1 IX-074	0	0	0	0	0	0	1,139	0	176,400	1,139	0	176,400	1,139	0	176,400	
68 IX-075	509	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
68 IX-076	0	0	56,720	0	0	187,100	0	0	0	0	0	0	0	0	0	
67 IX-077	0	0	69,264	0	0	92,174	0	0	0	0	0	0	0	0	0	
31 IX-078	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 IX-079	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23 IX-080	1,224	0	0	900	0	900	0	0	0	0	0	0	0	0	0	
26 IX-081	708	0	0	814	0	814	0	0	0	0	0	0	0	0	0	
27 IX-082	413	0	63,956	688	0	106,560	0	0	0	0	0	0	0	0	0	
27 IX-083	0	0	0	81,880	0	0	0	0	0	0	0	0	0	0	0	
28 IX-084	1,163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
66 IX-085	0	0	133,056	0	0	266,112	0	0	0	0	0	0	0	0	0	
3 IX-086	0	0	0	5,237	0	0	5,237	0	0	5,237	0	0	0	0	0	
29 IX-087	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 IX-088	2,438	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30 IX-089	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
37 IX-090	538	0	0	5,629	0	0	0	0	0	0	0	0	0	0	0	
38 IX-091	0	0	102,874	0	0	205,747	1,239	0	0	0	0	205,747	0	0	205,747	
2 IX-092	0	132,500	38,880	0	496,125	145,800	0	496,125	145,800	0	0	0	0	0	0	
1 IX-093	0	0	50,760	0	0	87,684	0	0	0	0	0	0	0	0	0	
20 IX-094	423	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16 IX-095	0	84,320	48,560	0	168,640	97,920	632	168,640	0	0	0	0	0	0	0	
69 IX-096	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
69 IX-097	0	0	0	569	151,838	0	0	0	0	0	0	0	0	0	0	
4 IX-098	0	0	0	790	0	0	0	0	0	0	0	0	0	0	0	
51 IX-099	688	0	0	688	0	0	0	0	0	0	0	0	0	0	0	
14 IX-100	0	0	0	0	0	72,000	0	0	0	0	0	0	0	0	0	
43 IX-101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
44 IX-102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
76 IX-103	0	0	157,320	0	0	0	0	0	0	0	0	0	0	0	0	
76 IX-104	0	0	158,400	0	0	0	0	0	0	0	0	0	0	0	0	
76 IX-105	0	0	133,200	0	0	0	0	0	0	0	0	0	0	0	0	
76 IX-106	0	0	131,700	0	0	0	0	0	0	0	0	0	0	0	0	
76 IX-107	0	0	118,800	0	0	0	0	0								

