

Inspection sheet of visual survey

Bridge No. 6

Photo No. (~)

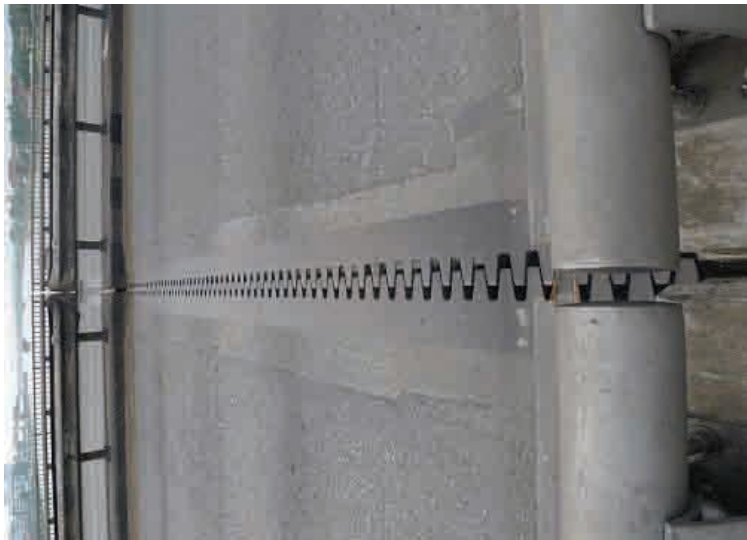
Bridge name		Pra Nangklaio Bridge		Route name		-		Authority		DOH		Code of authority		-	
Place		from Anphoe Bang Bua Thong		Distance		from km+ 0						No.		-	
		to Anphoe mueang Nonthaburi				to km+ 0						Survey date		24-oct-2009	
Bridge properties	Bridge type(1)	main road · side road · ramp													
	Bridge type(2)	bridge · viaduct · plank pass													
	Bridge type(3)	5-span continuous PC box girder													
	Total length	330.00 (m)													
	Span	51 + 72 + 84 + 72 + 51 (m)													
	Nos. of span	5 span													
	Width	21.80 (m) / (m)													
	Completion	1985													
Road information	Horizontal	Straight · incli(= 1.5 °) · Curve (R m)													
	Gradient	One way (·) parabo (▽ · ▽)													
	Nearby tunnel	yes · no (m)													
	Nearby crossing	yes · no (m)													
	Traffic	Much · Medium · Little													
	Commercial traffic	Much · Medium · Little													
Environment	1.Urban	2.Suburbs	3.Mountain	4.Seaside											
	5.Industrial	6.Harbor	7.Residential	8.Bussiness											
	9.Salty	10.Cold and snow	11.Heavy snow	12.Others											
Under bridge	1.Shinkansen	2.Railway	3.Highway	4.Road											
	5.River	6.Lake	7.Ravine	8.Valley											
	9.Waterway	10.Parking	11.Bike parkin	12.Park											
	13.Vacant	14.Harbor	Name (Chao Phraya)												
Access method	Superstructure	1.Inspection car 2.Falsework 3.On ground 4.Ladder 5.Lift car 6.On boat 7.Special camera 8.Others()													
	Substructure	1.Inspection car 2.Falsework 3.On ground 4.Ladder 5.Lift car 6.On boat 7.Special camera 8.Others()													
	Reason	· All bridge section is on the water · If inspection car is not available, false work will be required													
Survey result	Joint	Camber deform	yes · no												
		Difference in glade	yes · no												
		Continuous of barrier	yes · no												
		Continuous of curve	yes · no												
	Noise	Noise	yes · no												
		Space change	yes · no												
		difference grade	yes · no												
		draining damage	yes · no												
Blocked drainage	Blocked drainage	yes · no													
	Crack of pavement	yes · no													
	Damage of lighting	yes · no													
	Damage of sign	-													
Damage of handrail	Damage of handrail	yes · no													
	Possibility of scou	yes · no													
	Walkway yes · no														
	Vehicle yes · no														
Inspection way															
Height of girde	about 10m														
Deterioration of bridge	deficient · fair · good														
	Noticeable point														
	· Hinge is removed														
	· Leakage from water supply														
Outline of damage	Item	Type	State												
	Main girder	PC-Box	Much water is flowed inside of box by leakage of water supp												
	Cross beam	-	-												
	Stringer	-	-												
Cross frame	Cross frame	-	-												
	Lateral brace	-	-												
	Slab		leakage from medium												
	Abutment	Rectangular	-												
Pier	Pier	plate, rectangular	-												
	Bearing	Slide bearing	move to center (not critical)												
	Barrier	Trapezoidal	Generally healthy												
	Railing	Steel	Generally healthy												
Curb	Curb	-	-												
	Pavement	asphalt · concrete	Generally healthy												
	Joint	drained · indrained	leakage												
	Drainage	yes · no	Partly blocked												
Impressions	· Vertical movement is occurred independently at hinge of center														
	· Free lime from construction joint														
	· Breaking of ship protection														
History of repair															
Surveyor	Mr.Chujo, Mr.Kudo														

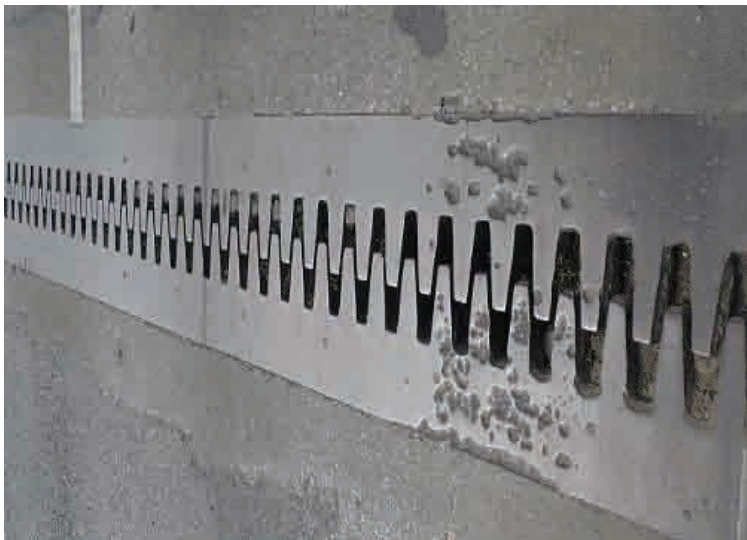
Present state (1 / 10)


Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				

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Present state (2 / 10)					
Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				

	Picture No.	4
	Span	1
	Member	Hinge
	Joint on hinge part	
	Vertical movement independently especially in upstream girder	

	Picture No.	5
	Span	1
	Member	Expansion joint
	Spacing is widen	
	Bangkok side	

	Picture No.	6
	Span	1
	Member	Expansion joint
	Spacing is widen	
	Thon Buri side	

Present state (3 / 10)					
Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				

	Picture No.	7
	Span	1
	Member	Water supply
	Leakage inside of PC-box girder	
	Picture No.	8
	Span	1
	Member	Bearing
	Movement of girder	
	Thon Buri side	
	effect of shrinkage and creep	
	Picture No.	9
	Span	1
	Member	Bearing
	Movement of girder	
	Bangkok side is lager than Thonbu	

Present state (4 / 10)

Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				



Picture No.	10
Span	1
Member	Bearing
Deterioration of corrosion proofing	






Picture No.	11
Span	1
Member	Expansion joint
Deterioration of drain function	
Leakage from medium	



Picture No.	12
Span	1
Member	Pylon

Present state (5 / 10)					
Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				

	Picture No.	7
	Span	1
	Member	Expansion joint
	Deterioration of drain function	
	Picture No.	8
	Span	1
	Member	Drainage
	Blocking of catch basin	
	Picture No.	9
	Span	1
	Member	Drainage
	dirt	

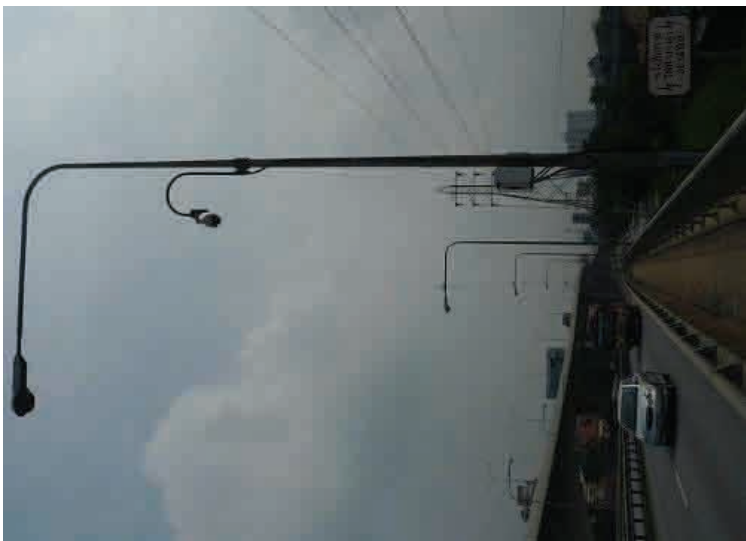
Present state (6 / 10)					
Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				

	Picture No.	10
	Span	1
	Member	Manhole
	graffiti	
	Manhole can be access by ladder	




	Picture No.	11
	Span	1
	Member	Manhole
	With a key	

	Picture No.	12
	Span	1
	Member	Lighting pole
	Damaged	


Present state (7 / 10)					
Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				


	Picture No.	13
	Span	1
	Member	
	Repair of electric cable	
	Picture No.	14
	Span	1
	Member	Monitoring camera
	Picture No.	15
	Span	1
	Member	Management office


Present state (8 / 10)					
Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				

	Picture No.	16
	Span	1
	Member	Footing
	Footing is close to new pra nangklao bridge at Thonburi side	
	Picture No.	17
	Span	1
	Member	View of footing
	Picture No.	18
	Span	1
	Member	Water supply
	Much water from manhole due to leakage of water supply	


Present state (9 / 10)					
Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				

	Picture No.	7
	Span	1
	Member	PC-box
	Free lime from construction joint	
<i>*Survey on board, 31-oct</i>		

	Picture No.	8
	Span	1
	Member	Hinge
	Lack of pin	
	Vertical movement is occurred independently	
<i>*Survey on board, 31-oct</i>		

	Picture No.	9
	Span	1
	Member	PC-box
	Nest and droppings	
<i>*Survey on board, 31-oct</i>		

Present state (10 / 10)					
Authority	DOH	Address	Bangkok	Data	24-Oct-09
Bridge	Phra NangKlao Bridge				

	Picture No.	10
	Span	1
	Member	Footing
	Breaking and movement	
	<i>*Survey on board, 31-oct</i>	
	Picture No.	11
	Span	1
	Member	
	Picture No.	12
	Span	1
	Member	


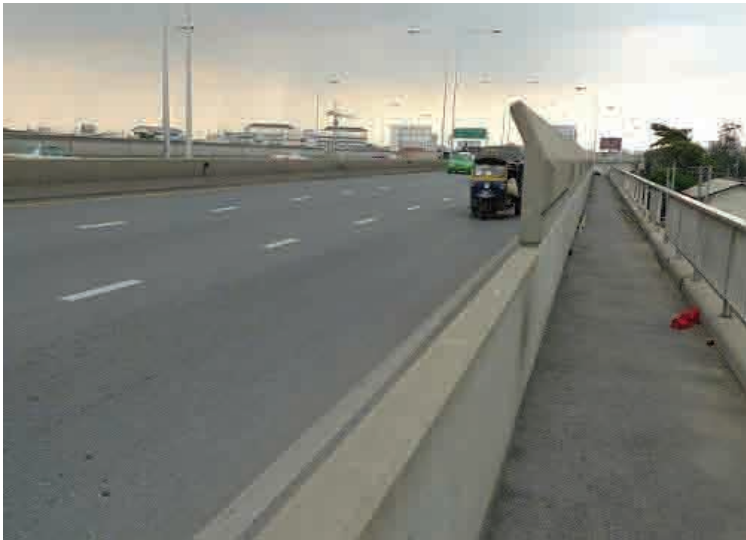

Inspection sheet of visual survey

Bridge No. 7




Photo No. (~)

Bridge name		RAMA V Bridge		Route name		-		Authority		Code of authority		-	
Place		from Anphoe Bang Bua Thong		Distance		from km+ 0				No.		-	
		to Anphoe mueang Nonthaburi				to km+ 0				Survey date		2009/10/20	
Bridge properties	Bridge type(1)	main road · side road · ramp											
	Bridge type(2)	bridge · viaduct · plank pass											
	Bridge type(3)	3-span continuous PC box girder											
	Total length	320.00 (m)											
	Span	95 + 130 + 95 (m)											
	Nos. of span	3 span											
	Width	11.7 x 2 (m) / (m)											
	Completion	2002											
Road information	Horizontal	Straight · incli(= °) · Curve (R m)											
	Gradient	One way (·) parabo (▽ · ▽)											
	Nearby tunnel	yes · no (m)											
	Nearby crossing	yes · no (m)											
	Traffic	Much · Medium · Little											
	Commercial traffic	Much · Medium · Little											
Environment	1.Urban	2.Suburbs	3.Mountain	4.Seaside									
	5.Industrial	6.Harbor	7.Residential	8.Bussiness									
	9.Salty	10.Cold and snow	11.Heavy snow	12.Others									
Under bridge	1.Shinkansen	2.Railway	3.Highway	4.Road									
	5.River	6.Lake	7.Ravine	8.Valley									
	9.Waterway	10.Parking	11.Bike parkin	12.Park									
	13.Vacant	14.Harbor	Name (Chao Phraya)										
Access method	Superstructure	1.Inspection car 2.Falsework 3.On ground 4.Ladder 5.Lift car 6.On boat 7.Special camera 8.Others()											
	Substructure	1.Inspection car 2.Falsework 3.On ground 4.Ladder 5.Lift car 6.On boat 7.Special camera 8.Others()											
	Reason	· All bridge section is on the water · If inspection car is not available, false work will be required											
Survey result	Joint	Camber deform	yes · no										
		Difference in glade	yes · no										
		Continuous of barrier	yes · no										
		Continuous of curve	yes · no										
	Noise	Noise	yes · no										
		Space change	yes · no										
		difference grade	yes · no										
		draining damage	yes · no										
Blocked drainage	Blocked drainage	yes · no											
	Crack of pavement	yes · no											
	Damage of lighting	yes · no											
	Damage of sign	-											
Damage of handrail	Damage of handrail	yes · no											
	Possibility of scout	yes · no											
	Walkway yes · no												
	Vehicle yes · no												
Inspection way													
Outline of damage	Item	Type	State										
	Main girder	PC-Box	Free lime, scratch due to ship collision										
	Cross beam	-	-										
	Stringer	-	-										
Cross frame	Cross frame	-	-										
	Lateral brace	-	-										
	Slab	-	-										
	Abutment	Rectangular	-										
Pier	Pier	Rectangular	-										
	Bearing	Slide bearing	-										
	Barrier	Trapezoidal	Generally healthy										
	Railing	Steel	Partly stolen										
Curb	Curb	-	-										
	Pavement	asphalt · concrete	Generally healthy										
	Joint	drained · indrained	Spacing is extended										
	Drainage	yes · no	Blocked										
Impressions	· Scratch was seen under girder in center span												
	· Spacing of expansion joint increase about 5cm after completion.												
Diagnosis	Deterioration of bridge deficient · fair · good												
	Noticeable point												
History of repair	History of repair ; Repaint ; - yy - mm												
	Surveyor ; Mr.Chujo, Mr.Kudo												


Present state (1 / 10)					
Road		Address	Bangkok	Data	20-Oct-09
Bridge	Rama V				


	Picture No.	1
	Span	1
	Member	View under girder
	Picture No.	2
	Span	1
	Member	View on road
	Picture No.	3
	Span	1
	Member	Side view
*Survey on board, 31-oct		


Present state (2 / 10)					
Road		Address	Bangkok	Data	20-Oct-09
Bridge	Rama V				

	Picture No.	4
	Span	1
	Member	Manhole
	No key	
	Picture No.	5
	Span	1
	Member	Manhole (walkway side)
	With key	
	Picture No.	6
	Span	1
	Member	Manhole
	About 6m height	
	Lift car or ladder is needed to access	


Present state (3 / 10)					
Road		Address	Bangkok	Data	20-Oct-09
Bridge	Rama V				

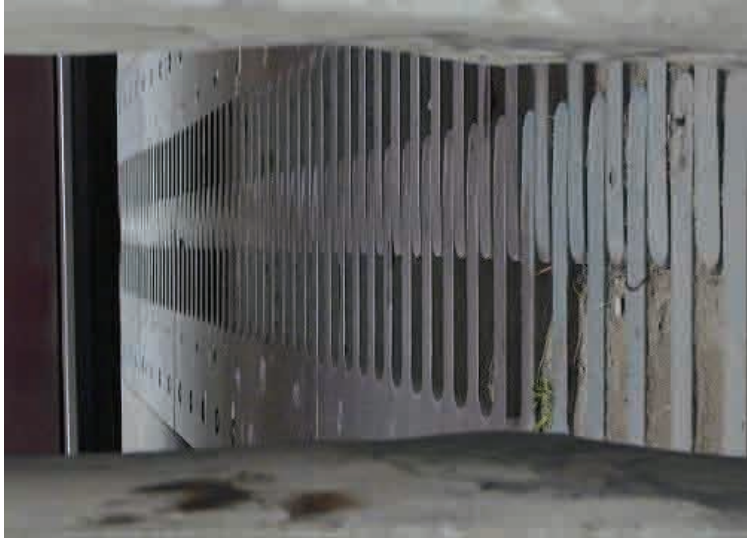
	Picture No.	7
	Span	1
	Member	Catch basin
	Blocking	
	Part without noise barrier is cleaned and has no blocking	


	Picture No.	8
	Span	1
	Member	slab (walkway, roadway)
	Electric and communication line	

	Picture No.	9
	Span	1
	Member	Girder
	Defect of construction?	


Present state (4 / 10)					
Road		Address	Bangkok	Data	20-Oct-09
Bridge	Rama V				

	Picture No.	10
	Span	1
	Member	Expansion joint
	Leaving of form work	


	Picture No.	11
	Span	1
	Member	Expansion joint
	Spacing is expanded 5cm	


	Picture No.	12
	Span	1
	Member	Handrail
	Joint is off by unusual movement	


Present state (5 / 10)					
Road		Address	Bangkok	Data	20-Oct-09
Bridge	Rama V				

	Picture No.	7
	Span	1
	Member	walkway
	Less than 2m	
	Inspection vehicle cannot park in walkway	
	Picture No.	8
	Span	1
	Member	Handrail
	Stolen of stainless handrail	
	Picture No.	9
	Span	1
	Member	Pier head
	Genellary healthy	

Present state (6 / 10)					
Road		Address	Bangkok	Data	20-Oct-09
Bridge	Rama V				

	Picture No.	10
	Span	1
	Member	Water supply
	Walkway of water supply will be available to use for detailed survey of slab at center	

	Picture No.	11
	Span	1
	Member	Girder
	Scorch by ship collision	

	Picture No.	12
	Span	1
	Member	Footing

Inspection sheet of visual survey

Bridge No. 8

Photo No. (~)

Bridge name		RAMA 7 Bridge		Route name		-		Authority		Code of authority		-	
Place		from Khat Bang Phlat		Distance		from km+ 0				No.		-	
		to Khet Dusit				to km+ 0				Survey date		2009/10/20	
Bridge properties	Bridge type(1)	main road · side road · ramp											
	Bridge type(2)	bridge · viaduct · plank pass											
	Bridge type(3)	3-span continuous PC box girder											
	Total length	290.00 (m)											
	Span	85 + 120 + 85 (m)											
	Nos. of span	3 span											
	Width	14.45 x 2 (m) / (m)											
	Completion	1992											
Road information	Horizontal	Straight · incli(= °) · Curve (R m)											
	Gradient	One way (·) parabo (▽ · ▽)											
	Nearby tunnel	yes · no (m)											
	Nearby crossing	yes · no (m)											
	Traffic	Much · Medium · Little											
	Commercial traffic	Much · Medium · Little											
Environment	1.Urban	2.Suburbs	3.Mountain	4.Seaside									
	5.Industrial	6.Harbor	7.Residential	8.Bussiness									
	9.Salty	10.Cold and snow	11.Heavy snow	12.Others									
Under bridge	1.Shinkansen	2.Railway	3.Highway	4.Road									
	5.River	6.Lake	7.Ravine	8.Valley									
	9.Waterway	10.Parking	11.Bike parkin	12.Park									
	13.Vacant	14.Harbor	Name (Chao Phraya)										
Access method	Superstructure	1.Inspection car 2.Falsework 3.On ground 4.Ladder 5.Lift car 6.On boat 7.Special camera 8.Others()											
	Substructure	1.Inspection car 2.Falsework 3.On ground 4.Ladder 5.Lift car 6.On boat 7.Special camera 8.Others()											
	Reason	· All bridge section is on the water · If inspection car is not available, false work will be required											
Survey result	Joint	Camber deform	yes · no										
		Difference in glade	yes · no										
		Continuous of barrier	yes · no										
		Continuous of curve	yes · no										
	Noise	Noise	yes · no										
		Space change	yes · no										
		difference grade	yes · no										
		draining damage	yes · no										
Blocked drainage	Blocked drainage	yes · no											
	Crack of pavement	yes · no											
	Damage of lighting	yes · no											
	Damage of sign	-											
Damage of handrail	Damage of handrail	yes · no											
	Possibility of scou	yes · no											
	Walkway yes · no												
	Vehicle yes · no												
Inspection way													
Impressions	· Damage of drainage of joint. Around bearing, It should check influence of leakage f												
	· Continuous drain from manhole of center span. Leakage of water supply might make dam												
	inside of girder.												
History of repair	Repaint ; - yy - mm												
	Surveyor ; Mr,Chujo, Mr.Kudo												

Present state (1 / 6)

Authority	DRR	Address	Bangkok	Data	20-Oct-09
Bridge	Rama VII				



Picture No.	1
Span	1
Member	View under girder



Picture No.	2
Span	1
Member	View on road



Picture No.	3
Span	1
Member	Side view

Present state (2 / 6)

Authority	DRR	Address	Bangkok	Data	20-Oct-09
Bridge	Rama VII				



Picture No.	4
Span	1
Member	Water supply



Picture No.	5
Span	1
Member	Handrail
Antitheft welding	



Picture No.	6
Span	1
Member	Lighting pole
Deformation of bolt	

Present state (3 / 6)

Authority	DRR	Address	Bangkok	Data	20-Oct-09
Bridge	Rama VII				



Picture No.	7
Span	1
Member	Catch basin
Partly blocked	



Picture No.	8
Span	1
Member	Expansion joint
Deterioration of drain function	



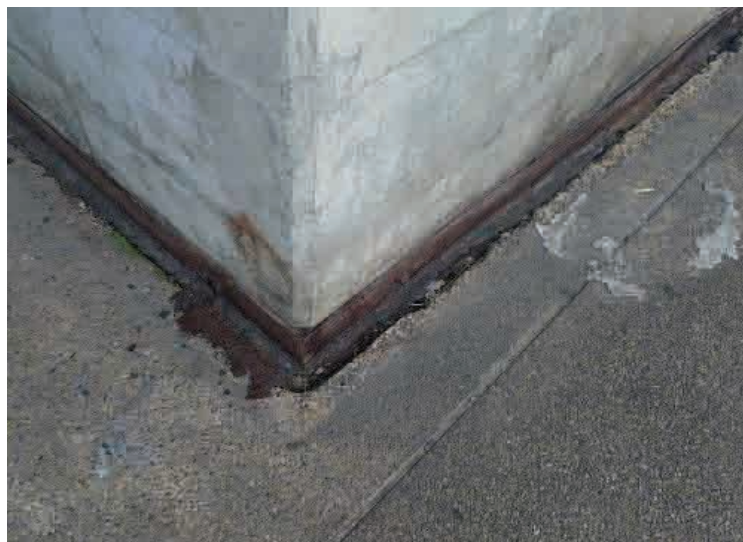
Picture No.	9
Span	1
Member	Expansion joint
Deterioration of drain function	

Present state (4 / 6)

Authority	DRR	Address	Bangkok	Data	20-Oct-09
Bridge	Rama VII				



Picture No.	10
Span	1
Member	End pier
Corrosion of steel plate at base	



Picture No.	11
Span	1
Member	End pier
Corrosion of steel plate at base	

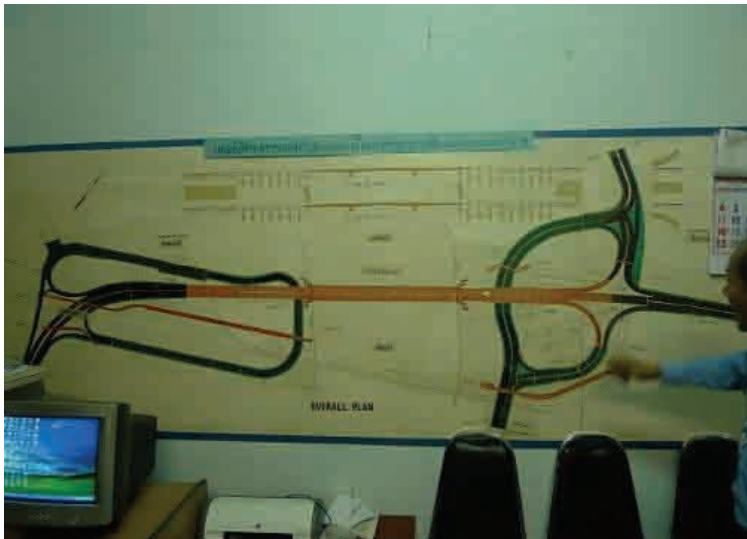




Picture No.	12
Span	1
Member	Approach bridge
Free lme	


Present state (5 / 6)					
Authority	DRR	Address	Bangkok	Data	20-Oct-09
Bridge	Rama VII				

	Picture No.	7
	Span	1
	Member	Approach bridge
	Settlement around pier	
	Picture No.	8
	Span	1
	Member	Approach bridge
	Deterioration of drain function	
	First one is good. 2nd, 3rd drain is blocked	
	Picture No.	9
	Span	1
	Member	Site management office
	Management office	
	Technical 1 person	
	Labor 15 person	
	Management of bridge and park	
	They send report of bridge once a week to DRR	

Present state (6 / 6)					
Authority	DRR	Address	Bangkok	Data	20-Oct-09
Bridge	Rama VII				

	Picture No.	10
	Span	1
	Member	Site management office
	Management area is yellow section	
	Green section is managed by BMA	
	Picture No.	11
	Span	1
	Member	Site management office
	Picture No.	12
	Span	1
	Member	Site management office

Present state (7 / 7)					
Authority	DRR	Address	Bangkok	Data	20-Oct-09
Bridge	Rama VII				

	Picture No.	7
	Span	1
	Member	Substructure
	Picture No.	8
	Span	1
	Member	
	Picture No.	9
	Span	1
	Member	

Inspection sheet of visual survey

Bridge No. 10

Photo No. (~)

Bridge name		Krung Thon Bridge		Route name		-		Authority		Code of authority		-	
Place		from Khat Bang Phlat		Distance		from km+ 0				No.		-	
		to Khet Dusit				to km+ 0				Survey date		2009/10/24	
Bridge properties	Bridge type(1)	main road · side road · ramp											
	Bridge type(2)	bridge · viaduct · plank pass											
	Bridge type(3)	6-span steel truss											
	Total length	360.00 (m)											
	Span	58 + 58 + 64 + 64 + 58 + 58 (m)											
	Nos. of span	6 span											
	Width	12.00 (m) / (m)											
	Completion	1958											
Road information	Horizontal	Straight · incli(= 1.7 %) · Curve (R m)											
	Gradient	One way (·) parabo (▽ · ▽)											
	Nearby tunnel	yes · no (m)											
	Nearby crossing	yes · no (m)											
	Traffic	Much · Medium · Little											
	Commercial traffic	Much · Medium · Little											
Environment	1.Urban	2.Suburbs	3.Mountain	4.Seaside									
	5.Industrial	6.Harbor	7.Residential	8.Bussiness									
	9.Salty	10.Cold and snow	11.Heavy snow	12.Others									
Under bridge	1.Shinkansen	2.Railway	3.Highway	4.Road									
	5.River	6.Lake	7.Ravine	8.Valley									
	9.Waterway	10.Parking	11.Bike parkin	12.Park									
	13.Vacant	14.Harbor	Name (Chao Phraya)										
Access method	Superstructure	1.Inspection car 2.Falsework 3.On ground 4.Ladder 5.Lift car 6.On boat 7.Special camera 8.Others()											
	Substructure	1.Inspection car 2.Falsework 3.On ground 4.Ladder 5.Lift car 6.On boat 7.Special camera 8.Others()											
	Reason	· All bridge section is on the water · If inspection car is not available, false work will be required											
Survey result	Joint	Camber deform	yes · no										
		Difference in glade	yes · no										
		Continuous of barrier	yes · no										
		Continuous of curve	yes · no										
	Outline of damage	Noise	yes · no										
		Space change	yes · no										
		difference grade	yes · no										
		draining damage	yes · no										
Inspection way	Blocked drainage	yes · no											
	Crack of pavement	yes · no											
	Damage of lighting	yes · no											
	Damage of sign	-											
Diagnosis	Damage of handrail	yes · no											
	Possibility of scour	yes · no											
	Walkway yes · no												
	Vehicle yes · no												
Impressions	Height of girde	about 8.5m											
	· scour (information from DRR)												
	· Remarkable crack and exfoliation is found at bottom surface of walkway												
	· Some drainage pipe was drop off												
History of repair	· Condision of painting is not bad, but some plate thickness was reduced by corrosion												
	Especially flange of bracket should be take care a strength.												
	· Deformation by ship collision was found at 1 center span.												
Surveyor ;	Mr.Chujo, Mr.Kudo												
	Detail survey was finished on Sep.2009												
Repaint ;		- yy - mm											

Present state (1 / 19)

Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				



Picture No.	1
Span	1
Member	Side view



Picture No.	2
Span	1
Member	View on road



Picture No.	3
Span	1
Member	View under girder

Present state (2 / 19)

Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				



Picture No.	4
Span	1
Member	Side view of 1 span



Picture No.	5
Span	1
Member	View of walkway



Picture No.	6
Span	1
Member	Expansion joint

Between 1st and 2nd span (Thon Buri side)
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Present state (5 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

	Picture No.	13
	Span	1
	Member	Water supply
	Picture No.	14
	Span	1
	Member	Bottom chord
	Deformation by vehicle collision	
	Picture No.	15
	Span	1
	Member	Bottom chord
	Scratch by vehicle collision	

Present state (6 / 19)

Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

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Present state (7 / 19)

Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				



Picture No.	19
Span	1
Member	Bearing
Deterioration of corrosion proofing	
Fracture of edge	
Approach bridge	



Picture No.	20
Span	1
Member	Bearing
Bearing on cross beam between main girder	
Approach bridge	



Picture No.	21
Span	1
Member	Bearing
Deterioration of corrosion proofing	

Present state (8 / 19)

Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				



Picture No.	22
Span	1
Member	Bearing
Deformation of base plate	






Picture No.	23
Span	1
Member	Bearing





Picture No.	24
Span	1
Member	Bearing
Deterioration of corrosion proofi	


Present state (9 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

	Picture No.	25
	Span	1
	Member	Bearing
	Rivet at bottom side is replaced by bolt	
	It might be corroded before	
	Picture No.	26
	Span	1
	Member	Cross frame
	Peeling of paint	
	Expansion of steel by corrosion	
	Picture No.	27
	Span	1
	Member	Bearing
	Accumulation of soil	




Present state (10 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

	Picture No.	28
	Span	1
	Member	Bracket
	Reduction of plate thickness	

	Picture No.	29
	Span	1
	Member	Bracket
	Reduction of plate thickness	

	Picture No.	30
	Span	1
	Member	Chord member
	It's not clear the concept of gap Gap width is small.	

Present state (11 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				


	Picture No.	31
	Span	1
	Member	Stringer
	Peeling of paint	
	Picture No.	32
	Span	1
	Member	Chord member
	Fracture of concrete	
	Picture No.	33
	Span	1
	Member	Chord member
	Mount up to prevent remaining water	
	Possibility of corrosion inside of concrete slab	


Present state (12 / 19)


Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

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Present state (13 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

	Picture No.	37
	Span	1
	Member	Upper chord
	Deterioration of corrosion proofing	

	Picture No.	38
	Span	1
	Member	Vertical member
	Reinforcement by additional plate	
	4-vertical member was reinforced	

	Picture No.	39
	Span	1
	Member	Cross frame
	Deformation at the end of cross frame	
	Adjustment of height?	




Present state (14 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

	Picture No.	40
	Span	1
	Member	Chord member
	Deformation by vehicle collision	

	Picture No.	41
	Span	1
	Member	slab
	Replaced slab under roadway	

	Picture No.	42
	Span	1
	Member	Slab
	Slab under walkway	
Crack and free lime		

Present state (15 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

	Picture No.	43
	Span	1
	Member	Slab
	Slab under walkway	
	Crack and free lime	
	Picture No.	44
	Span	1
	Member	Slab
	Exposure of rebar	
	Crack above bracket	
	Picture No.	45
	Span	1
	Member	slab
	Exposure of rebar	

Present state (16 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

	Picture No.	46
	Span	1
	Member	Slab
	Exposure of rebar	
	Picture No.	47
	Span	1
	Member	slab
	Crack on walkway	
	Crack spacing is 2-4m.	
	Picture No.	48
	Span	1
	Member	Slab
	Walkway. Crack	
	0.4mm ~ 0.75mm	



Picture No.	49
Span	1
Member	Under bridge
Residence under bridge	
Bangkok side	






Picture No.	50
Span	1
Member	Slab
Signboard of inspection and repairing work	
150days from 2009.Feb	
Consultant is Norconsultant	





Picture No.	51
Span	1
Member	Substructure
<i>*Survey on board, 31-oct</i>	


Present state (18 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

	Picture No.	52
	Span	1
	Member	Slab
	Falling of drainage pipe	
	<i>*Survey on board, 31-oct</i>	
	Picture No.	53
	Span	1
	Member	slab
	Crack and free lime under walkway	
	<i>*Survey on board, 31-oct</i>	
	Picture No.	54
	Span	1
	Member	Slab
	Crack and free lime under walkway	
	<i>*Survey on board, 31-oct</i>	

Present state (19 / 19)					
Authority	DRR	Address	Bangkok	Data	24-Oct-09
Bridge	Krung Thon Bridge				

	Picture No.	55
	Span	1
	Member	Slab
	Deformation by ship collision	
*Survey on board, 31-oct		

	Picture No.	56
	Span	1
	Member	Water supply
	Deterioration of corrosion proofi	
*Survey on board, 31-oct		

	Picture No.	57
	Span	1
	Member	