Bridge No. 6 Photo No. (~~ Code of authorit DOH Route name Pra Nangklao Bridge Bridge name No. Authority from Anphoe Bang Bua Thong 0 from km+ Place Survey date 24-oct-2009 Distanc Anphoe mueang Nonthaburi km+ 0 to to Bridge type(1) main road side road ramp Camber deform ves · no ltem Type State . Much water is flowed inside of box by leakage of water sup Bridge type(2) bridge viaduct plank pass Difference in glade yes no Main girde PC-Box Bridge type(3) 5-span continuous PC box girder ontinuous of barrie Cross bea yes • no -Dronert i Total length 330.00 (m) Continuous of curve Stringer ves • no 51 + 72 + 84 + 72 + 51 (m) Noise Span ves · no Cross fram result dop Nos. of span Space change ves 5 span Lateral brac • no oint Ľ. difference grade yes 21.80 leakage from medium Width (m) / (m) no Slab damage Survey Completion 1985 draining damage ves Abutment Rectangular • no Blocked drainage ves · no ę Pier Plate, rectangula ₽ Out line Straight Curve (R Crack of pavement no Horizontal • incli(= 1.5°) Bearing Slide bearing move to center (not critical) m) ves · <u>o</u>) parabol (凸 凹 Gradient Damage of lighting Trapezoidal Generally healthy One way () ves • no Barrier informat Nearby tunnel Damage of sign Steel Generally healthy no m) Railing yes (Nearby crossing Damage of handrail ves · no ves no (m) Curb Possibility of scou asphalt • concrete Generally healthy Traffic Much Medium • Little ves • no Pavement Road Commercial traffi Much · Medium Little Walkway yes • no drained undrained leakage Joint Vehicle yes · no Partly blocked Drainage ves · no lon 2.Suburbs 3.Mountain 1.Urban 4.Seaside way 5. Industrial 6.Harbor 7.Residential 8.Bussiness Envi 9.Salty 10.Cold and snow 11.Heavy snow 12.0thers · Vertical movement is occurred independently at hinge of center nspect ion i d Free lime from construction joint 1.Shinkansen 2.Railway 3.Highway 4.Road þ 5.River 6.Lake 7.Ravine 8.Valley Breaking of ship protection mpressions Unde r 9.Waterway 10.Parking 11.Bike parkin 12.Park 13.Vacant 14.Harbor Chao Phrava Name 1.Inspection car2.Falsework 3.On ground 4.Ladder 5.Lift car Superstructure 6.0n boat 7.Special camera 8.Others(about 10m Height of girde nethod I.Inspection car2.Falsework 3.On ground 4.Ladder 5.Lift car Deterioration of bridge Substructure 0.0n boat 7.Special camera 8.Others(deficient · fair · good agnos i s • All bridge section is on the water Noticeable point istory of repair • Hinge is removed · If inspection car is not available, false work Repaint; Reason - yy - mm will be required D · Leakage from water supply Mr,Chujo, Mr.Kudo Surveyor ;

Append

Preser	nt state (1	/ 10)			
Authority	DOH	Address	Bangkok	Data	24-0ct-09
Bridge	Phra NangKlao Br	idge			

	Picture No.	1
	Span	1
	Member	Side view
State and a state of the state		
	*0	
	"Survey on	board, 31-oct
	Picture No.	2
	Span	2
	Member	View on road
	Weinber	
and the second		
particular of PAMERER		
	Picture No.	3
	Span	1
	Member	View under bridge
the second s		
In the second se		
and the second distance of the second s		

Prese	nt state (2	/ 10)			
Authority	DOH	Address	Bangkok	Data	24-0ct-09
Bridge	Phra NangKlao Bridge				

		4
	Picture No.	4
	Span	1
	Member	Hinge
	Joint on hi	nge part
	Vertical mo	vement independently
		in upstream girder
	Picture No.	5
	Span	1
	Member	Expansion joint
	Spacing is	widen
	Bangkok sid	e
	Picture No.	6
	Span	1
	Member	Expansion joint
	Spacing is	widen
	Thon Buri s	ide
A A A A A A A A A A A A A A A A A A A		
the second support of the second second		
A manufacture of the second se		
The way have a set		

nt state (3	/ 10)			
DOH	Address	Bangkok	Data	24-0ct-09
Phra NangKlao Bridge				
	DOH	DOH Address	5	DOH Address Bangkok Data

	Picture No.	7
Concerne and the second	Span	<u> </u>
	Member	Water supply
	Member	water Suppry
	Leakage insid	de of PC-box girder
	Picture No.	8
	Span	1
	Member	Bearing
	Movement of g	girder
	Thon Buri sid	de
	effect of shu	rinkage and creep
	Picture No.	9
- the first of the	Span	1
13 10 10 10 10 10 10 10 10 10 10 10 10 10	Member	Bearing
	Movement of g	girder
1 APP. The second is	Bangkok side	is lager than Thonb
and a la clace		
N. STREET		

nt state (4	/ 10)				
DOH	Address	Bangkok	Data	24-0ct-09	
Phra NangKlao Bridge					
	DOH		DOH Address Bangkok	DOH Address Bangkok Data	

	Picture No.	10
	Span	1
	Member	Bearing
		Dear my
	Deteriorati	on of corrosion proofi
	Picture No.	11
A A A A A A A A A A A A A A A A A A A	Span	1
	Member	Expansion joint
	member	
		on of drain function
	Leakage fro	m medium
	Picture No.	
	Span Member	1 Bylon
	Membe r	Pylon

Prese	nt state (5	/ 10)				
Authority	DOH	Address	Bangkok	Data	24-0ct-09	
Bridge	Phra NangKlao Bridge					

	Picture No.	7
	Span	1
	Member	Expansion joint
	D () ()	
THE STREET	Deteriorati	on of drain function
ALL CONTRACTOR		
a the second		
S Ma La Ser		
	Picture No.	8
	Span	1
and the stand of the stand of the	Member	Drainage
The second s		
	Blocking of	catch basin
and reference and the second		
and the second		
a second s		
「「「「「「」」」、「「」」、「」、「」、「」、「」、「」、「」、「」、「」、「		
	Picture No.	9
	Span	1
	Member	Drainage
	dirt	
A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER		

Prese	nt state (6	/ 10)				
Authority	DOH	Address	Bangkok	Data	24-0ct-09	
Bridge	Phra NangKlao Bridge					

	10 1 Manhole be access by ladder
Picture No. Span Member With a key	11 1 Manhole
Picture No. Span Member Damaged	12 1 Lighting pole

Prese	nt state (7	/ 10)			
Authority	DOH	Address	Bangkok	Data	24-0ct-09
Bridge	Phra NangKlao Br	'idge			

	Picture No.	13
		1
	Span Member	I
	Member	
	Deneir of o	laatria aabla
	Repair of e	lectric cable
A A		
1 - 1 - 1	Picture No.	14
	Span	1
	Member	Monitoring camera
to the second		
	Picture No.	15
	Span	1
	Member	Management office
	WCIIDET	management office
The state of the second second second		
and the second se		

Prese	nt state (8	/ 10)				
Authority	DOH	Address	Bangkok	Data	24-0ct-09	
Bridge	Phra NangKlao Bridge					

		40
	Picture No.	16
	Span	1 Faction
	Member	Footing
	Frating is	
	Footing is	close to new pra
	nangkiao bi	idge at Thonburi side
	Picture No.	17
and the state of the	Span	1
STREET CONTAINS	Member	View of footing
and the second second		
and the second s		
	*Survey on	board, 31-oct
R CHARLES CONTRACT		
	Picture No.	18
A STATE OF A	Span	1
	Member	Water supply
Start and	MEIIDEI	mater Supply
	Much water	from manhole due to
Planter and a state of the stat	Teakage of	water supply
	*Survey on	board, 31-oct
Manife Contraction of the second		

Preser	nt state (9	/ 10)			
Authority	DOH	Address	Bangkok	Data	24-0ct-09
Bridge	Phra NangKlao Bridge				

	Picture No.	7
	Span	1
	Member	PC-box
		rom construction joint
	*Survey on	board, 31-oct
	Picture No.	8
The second second	Span	1
KJ. / K	Member	Hinge
and the second and a	Lack of pir	1
and the second s	Vertical mo	ovement is occurred
IN Company and the	independent	
and the second se		
The second second		
h to a sume support the		
A BEAR MERINA	*Survey on	board, 31-oct
The second states	Survey On	DUATU, 31-001
1 Ville		
	Picture No.	9
	Span	1
	Member	PC-box
	Nest and dr	oppings
	*Survey on	board, 31-oct
And the second se		

Prese	nt state (10) / 10)				
Authority	DOH	Address	Bangkok	Data	24-0ct-09	
Bridge	Phra NangKlao Bridge					

Picture No.	10
Span	1
Member	Footing
Breaking ar	nd movement
*Survey on	board, 31-oct
Dioturo No	11
Picture No. Span	<u> </u>
Member	I
Member	
Picture No.	12
Span	1
Member	

									202		Code of authority	-	
Br	idge name	RAMA V Bridge	KO	ute name	-		Auth	ority	DRR		No.	-	
P	lace	phoe Bang Bua Thong	Dist	f rom	km+	0					Survey date	2009/10/20	
	to An	phoe mueang Nonthaburi		to	km+	0							
	Bridge type(1) main road • side road • ramp		Cambe	r deform	yes · no		ltem	Туре			State	
	Bridge type(2) bridge · viaduct · plank pass			ce in glade	,		Main girder	PC-Box	Free lin	ne, scratch due to	ship collision	
	Bridge type(3) 3-span continuous PC box girder		iontinuou:	s of barrie	yes ∙ no		Cross beam	-	-			
L D C	Total length	320.00 (m)		Continuo	us of curve	yes • no		Stringer	-	-			
n n	Span	95 + 130 + 95 (m)		N	pise	yes · no		Cross frame	-	-			
nAc	Nos. of span	3 span	i i	Spa	ce change	yes · no		Lateral brace	-	-			
5	Width	11.7 x 2 (m) / (m)	result	diffe	rence grade	yes · no	ge	Slab	-	-			
ſ	Completion	2002) è	drain	ing damage	yes · no	damage	Abutment	Rectangular	-			
ſ			Sur	Blocked	ldrainage	yes • no		Pier	Rectangular	-			
	Horizontal	Straight • incli(= °) • Curve(R m)		Crack o	f pavement	yes · no	e.	Bearing	Slide bearing	-			
5	Gradient	One way (・・) parabo (凸・凹)		Damage c	of lighting	yes · no	Out line	Barrier	Trapezoidal	General	ly healthy		
	Nearby tunnel	yes · no (m)		Damage	of sign	-		Railing	Steel	Partly s	stolen		
Ē	Nearby crossir	ng yes · no (m)		Damage c	of handrail	yes · no		Curb	-	-			
- [Traffic	Much • Medium • Little		Possibili	ty of scour	yes • no		Pavement	asphalt • concre	te General	ly healthy		
	Commercial traff	i c Much • Medium • Little		Walkway	yes · no			Joint	drained •undrair	edSpacing	is extended		
ſ				Vehicle	yes • no			Drainage	yes • no	Blocked			
	1.Urban	2.Suburbs 3.Mountain 4.Seaside											
≥	5.Industrial	6.Harbor 7.Residential 8.Bussiness	Way				<u> </u>	• • •					_
1	9.Salty	10.Cold and snow 11.Heavy snow 12.Others	tion						h was seen under	<u> </u>		r completion	
5	1.Shinkansen 5.River	2.Railway 3.Highway 4.Road 6.Lake 7.Ravine 8.Valley	spect					• spacin	g of expansion jo	int increa	ise about 5cm afte		
	9.Waterway	10.Parking 11.Bike parkin 12.Park	Ins				ions						
5	13.Vacant	14.Harbor Name (Chao Phraya)					mpressions						
5	Superstructur	e 1.Inspection car2.Falsework 3.On ground 4.Ladder 5.Lift car 6.On boat 7.Special camera 8.Others()		Height of g	jirde	about5.5m	Impr						
	Substructure	1.Inspection car2.Falsework 3.0n ground 4.Ladder 5.Lift car 6.0n boat 7.Special camera 8.Others()	is		oration of b t · fair ·								
00000	Reason	All bridge section is on the water If inspection car is not available, false work	agnos	Notice	eable point			listory o	f repair ;			Repaint; - yy	' -

Prese	nt state (1	/ 10)			
Road		Address	Bangkok	Data	20-0ct-09
Bridge	Rama V				

	Picture No.	1
	Span	1
	Member	View under girder
	Picture No.	2
and the second	Span	1
	Member	View on road
A A A A A A A A A A A A A A A A A A A		
1/1 a h		
and and the second of the second s		
B III France		
and the first the second second		
	Picture No.	3
	Span	1
	Member	Side view
A Company of the second		
and the second designed and th		
the second s		
and the second s		
	*0	
	"Survey on	board, 31-oct
a 1 Å 1		

Preser	nt state (2	2 / 10)			
Road		Address	Bangkok	Data	20-0ct-09
Bridge	Rama V				

the second s	Picture No.	4
	Span	1
The share will be a set of the set of the	Member	Manhole
	No key	
The same that the same		
and the second		
and the second second and the second second		
	Picture No.	5
	Span	1
	Member	Manhole (walkway side)
The second se	With key	
the second s		
AND A THE REPORT OF THE REAL PROPERTY OF		
the second se		
and the second s		
Martin and Martin and Martin and Martin		
	Picture No.	6
	Span	1
	Member	Manhole
	About 6m he	eight
		5
	Lift car o	ladder is needed
	to access	
and the second s		

Prese	nt state (3	3 / 10)			
Road		Address	Bangkok	Data	20-0ct-09
Bridge	Rama V				

	Picture No.	7
The second division of	Span	1
A CONTRACTOR OF A CONTRACTOR OFTA A	Member	Catch basin
	Blocking	
	Dest 141	·
		It noise barrier is
	cleaned and	has no blocking
	Picture No.	8
	Span	1
and the second contraction of the second sec	Member	slab (walkway, roadway
and the second se		
Children and Chi	Electric ar	nd communication line
	Diature N:	0
	Picture No.	9
	Span Member	Girder
	Mellibel	GIIdei
and the second sec	Defect of o	construction?
The second s		

Prese	nt state (4	/ 10)			
Road		Address	Bangkok	Data	20-0ct-09
Bridge	Rama V				

	Picture No. Span Member	10 1 Expansion joint
	Leaving of	form work
TTTT I		
, P		
	Picture No.	11
and the second se	Span	1
OF THE OWNER OF THE PARTY OF TH	Member	Expansion joint
	Spacing is	expanded 5cm
The second second		
	Picture No.	12
	Span	1
her III	Member	Handrail
	Joint is of	f by unusual movement

Prese	nt state (8	5 / 10)			
Road		Address	Bangkok	Data	20-0ct-09
Bridge	Rama V				

	Picture No.	7
North Comments of the second s	Span	1
	Member	walkway
	Less than 2	lm
	Inspection	vehicle cannot park
	in walkway	
	Picture No.	8
	Span	1
State of the local division of the local div	Member	Handrail
AL AL	Stolen of s	tainless handrail
	Picture No.	9
	Span	1
The Stand Stand & Stand	Member	Pier head
an en en en en en		
	Genellary h	ealthy
	· · · ·	-
and the second s		
A REAL PROPERTY AND A REAL		

t state (6	/ 10)			
	Address	Bangkok	Data	20-0ct-09
Rama V				
			Address Bangkok	Address Bangkok Data

	Picture No.	10
	Span	1
	Member	Water supply
	Walkway of	water supply
		ilable to use for
	detailed su	rvey of slab at center
A REAL PROPERTY AND A REAL	Picture No.	11
	Span	1
a second and a second and a second a s	Member	Girder
	Scrach by s	hip collision
in the second of the second se		
Phillip Parks		
the state is a state of the sta		
AR DE PARTY AND		
and the second second	*Survey on	board, 31-oct
the second s		
	Picture No.	12
	Span	1
The second s	Member	Footing
in the part of the second of the		
Per har Hard and the second second second second		
	*Survey on	board, 31-oct

												Code of authori	Photo No.	(~ -
В	ridge name	RAMA 7 Bridge	Rou	ite name	-		Auth	ority	D	DRR		No.		-
	Place	Khat Bang Phlat	Dista		km+							Survey date		2009/10/20
	· · · · ·	Khet Dusit		to	km+			14.00	Tur	-			Chata	
	Bridge type				r deform	yes • no		ltem Main girder	Тур РС-В		froo lim	o lookogo from	State	
ies	Bridge type Bridge type		-		ce in glade			Cross beam	PU-D	0X		e, leakage from	water suppr	у
	0 11		-		s of barrie				-		-			
propert	Total leng	th 290.00 (m) 85 + 120 + 85 (m)	┨┝		us of curve oise			Stringer	-		-			
_	Span		L L	-		yes • no		Cross frame Lateral brace	-		-			
Bridge	Nos. of sp		resul t	+ '	ce change rence grade	yes • no			-		- fraa lim		reach anon)	
'n	Width	14.45 x 2 (m) / (m)		<u> Ч</u>	-		ğ	Slab				e, leakage (app	roach span)	
	Completic	n 1992	Survey		ning damage	yes ∙ no		Abutment	- Destaut		-			
	11		Ñ		d drainage	yes ∙ no	0	Pier	Rectang		-			
_	Horizonta				f pavement	yes • no	=	Bearing	Slide be	Ű	-			
tion	Gradient		┨┝	-	of lighting	yes · no	ort	Barrier	Trapezo			y healthy		
ormat	Nearby tun			0	e of sign			Railing	Stee	el (Jenerall	y healthy		
infor	Nearby cros			-	of handrail			Curb	-		-	. has little .		
Road	Traffic				ity of scou			Pavement	asphalt.			y nealtny		
ž	Commercial tr	affic Much • <u>Medium</u> • Little		Walkway				Joint	drained •					
E				Vehicle	yes • no]		Drainage	yes•	no	Blocked			
iron	1.Urban 5.Industria	2.Suburbs 3.Mountain 4.Seaside 6.Harbor 7.Residential 8.Bussiness	way											
EDVII	9.Salty	10.Cold and snow 11.Heavy snow 12.Others	ion w	••••••				• Damage	of drainag	je of joir	nt. Arou	nd bearing, It s	should check	influence of leackage
80-	1.Shinkanse	n 2.Railway 3.Highway 4.Road	ect i					• Contin	uous drain	from manh	nole of (center span. Lea	akage of wat	er supply might make (
r br	5.River	6.Lake 7.Ravine 8.Valley	nspect				SU	inside (of girder.					
Under	9.Waterway 13.Vacant	10.Parking 11.Bike parkin 12.Park 14.Harbor Name (Chao Phraya)	_				sio							
_		1 Inspection car2 Falsework 3 On ground 4 Ladder 5 Lift car		•••••			mpressions							
~	Superstruct	ure 6.0n boat 7.Special camera 8.0thers()		Height of g	girde :	about 8.9m	<u> </u>							
method	Substructu	Te 1.Inspection car2.Falsework 3.0n ground 4.Ladder 5.Lift car 6.0n boat 7.Special camera 8.Others()	s		oration of b t · fair ·	oridge good								
SS		• All bridge section is on the water	agnos i		eable point			lictory	froncir					
Acce	Reason	 If inspection car is not available, false work will be required 	Di agn	• Damage	of drainag	je of joint		listory o Surve		r,Chujo,			Repai	nt; - yy - i

Prese	nt state (1/6)			
Authority	DRR	Address	Bangkok	Data	20-0ct-09
Bridge	Rama VII				

	Picture No.	1
	Span	1
	Member	View under girder
	Dieture Mr.	0
	Picture No.	2
	Span Member	View on road
	Member	view on road
Alk us have a		
	Picture No.	3
	Span	1
	Member	Side view
and the second se		
the second se		

Presei	nt state (2/6)			
Authority	DRR	Address	Bangkok	Data	20-0ct-09
Bridge	Rama VII				

	Picture No.	4
	Span	1
	Member	Water supply
	Picture No.	5
the second se	Span	1
	Member	Handrail
Contraction of the second second		
A DESCRIPTION OF THE PARTY OF T	Antitheft w	elding
the second se		
	Picture No.	6
	Span	1
	Member	Lighting pole
	Defense	. () .) (
	Deformation	OT DOIT
and the second s		
the second se		

Prese	nt state (3	8/6)			
Authority	DRR	Address	Bangkok	Data	20-0ct-09
Bridge	Rama VII				

	Picture No.	7
	Span	1
	Member	Catch basin
	Partly bloc	ked
The second se		
	Picture No.	8
	Span	1
Contraction in the second second	Member	Expansion joint
and the second s	_	
	Deteriorati	on of drain fanction
Real Real Providence and the second		
1 - 1		
	Picture No.	9
	Span	1
	Member	Expansion joint
	Deteriorati	on of drain fanction
A REAL PROPERTY AND A REAL	Deteriorati	
The second secon		

Prese	nt state (4/6)			
Authority	DRR	Address	Bangkok	Data	20-0ct-09
Bridge	Rama VII				

	Dicture No.	10
	Picture No.	1
	Span	
	Member	End pier
	Corrosion c	of steel plate at base
and the second sec	Picture No.	11
ALL AND ALL AND THE ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	Span	1
	Member	End pier
		of steel plate at base
	Picture No.	
	Span	1
A Part of the second second	Member	Approach bridge
		Approach Strage
	Free lime	

Preser	nt state (5/6)			
Authority	DRR	Address	Bangkok	Data	20-0ct-09
Bridge	Rama VII				

Picture No. 9 Set Ilement around pier			7
Member Approach bridge Sett lement around pier Sett lement around pier Sett lement around pier Sett lement around pier Picture No. 8 Span 1 Member Approach bridge Deterioration of drain function First one is good. 2nd, 3rd drait is blocked State Span Picture No. 9 Span 1 Member Spool. 2nd, 3rd drait is blocked Setter No. 9 Span 1 Member State management office Technical 1 person Labor 15 person Management of bridge and park They send report of bridge		Picture No.	7
Settlement around pier Settlement around pi			
Picture No. 8 Span 1 Member Approach bridge Deterioration of drain function First one is good. 2nd, 3rd drain is blocked Sis blocked Picture No. 9 Span 1 Member Approach bridge Deterioration of drain function First one is good. 2nd, 3rd drain is blocked Span Span Span Nember Spon Picture No. 9 Span 1 Member Spon 1 Member Span 1 Member Span 1 Member Span 1 Member Span 1 Member Site management office Technical 1 person Labor 15 person Management of bridge and park They send report of bridge		Member	Approach bridge
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 Technical 1 person Labor 15 person Management of bridge and park They send report of bridge		Settlement	around pier
Member Approach bridge Deterioration of drain function First one is good. 2nd, 3rd drain is blocked First one is good. 2nd, 3rd drain is blocked First one is good. 2nd, 3rd drain is blocked Picture No. 9 Span 1 Member Site management office Technical 1 person Labor 15 person Labor 15 person Management of bridge and park They send report of bridge They send report of bridge			
Deterioration of drain function First one is good. 2nd, 3rd drain is blocked Image: Span 1 Member Site management office Technical 1 person Labor 15 person Management of bridge and park They send report of bridge	A REAL PROPERTY AND A REAL PROPERTY A		
First one is good. 2nd, 3rd drain is blocked Image: state of the state of t		Member	Approach bridge
Span 1 Member Site management office Technical 1 person Labor 15 person Management of bridge and park Management of bridge		First one i is blocked	s good. 2nd, 3rd drair
Member Site management office Management office Technical 1 person Labor 15 person Management of bridge and park They send report of bridge			
Management office Technical 1 person Labor 15 person Management of bridge and park They send report of bridge			
Technical 1 person Labor 15 person Management of bridge and park They send report of bridge		Member	Site management office
Technical 1 person Labor 15 person Management of bridge and park They send report of bridge			
Labor 15 person Management of bridge and park They send report of bridge			
Management of bridge and park They send report of bridge			
They send report of bridge		Labor 15 pe	erson
They send report of bridge			
		Management	of bridge and park

Prese	nt state (6/6)			
Authority	DRR	Address	Bangkok	Data	20-0ct-09
Bridge	Rama VII				

	Picture No	. 10
	Span	1
	Member	Site management office
	Management	area is yellow section
	Green sect	ion is managed by BMA
A	Picture No	
2 A	Span	1
	Member	Site management office
สามพัฒนะสอบรายอายีในข้องเหติกอายุประ		
and the second se		
THE IS ILL DULL - THE		
wanted in the second second second		
TANKING TANK		
the second secon		
the second se		
L'impire autorité de la compilation de la compil		
Hardens and the second se		
	Picture No.	
	Span	1
	Member	Site management office

Preser	nt state (7 / 7)			
Authority	DRR	Address	Bangkok	Data	20-0ct-09
Bridge	Rama VII				

Picture No.	7
Span	1
Member	Substructure
Picture No.	8
Span	1
Member	<u> </u>
Picture No.	9
Span	1
Member	

											Code of authority		-
Br	idge name	Krung Thon Bridge	Ro	oute name	-		Auth	ority	DRR		No.		-
P	lace from Khat	Bang Phlat	Dist	tance from	km+ km+	•					Survey date		2009/10/24
	Bridge type(1)	main road · side road · ramp			r deform	yes · no		ltem	Туре			State	
ŀ	Bridge type(2)	bridge • viaduct • plank pass			ce in glade	· _		Main girder	Truss	Corrosio	on, Deterioration		, deformation by col
es	Bridge type(3)	6-span steel truss			s of barrie			Cross beam	I section steel	-			
I-	Total length	360.00 (m)			us of curve			Stringer	I section steel	Deterio	ration of proofing	1	
proper	Span	58 + 58 + 64 + 64 + 58 + 58 (m)		N	oise	yes · no		Cross frame	T section steel	Expansio	on by corrosion	,	
afini	Nos. of span	6 span	T ≞	Spa	ce change	yes · no		Lateral brace	-	-	-		
	Width	12.00 (m) / (m)	resul 1	diffe	rence grade	yes · no	age	Slab		Crack,	free lime, Exfolia	tion	
	Completion	1958	_ ≶		draining damage yes • no	Abutment	-	-					
ľ			Blocked	locked drainage yes • no 👆		Pier	Rectangular	-					
	Horizontal	Straight • incli(= 1.7 %) • Curve(R m		Crack o	f pavement	yes ∙ no		Bearing	Pin bearing	Corrosio	on, accumulation c	of soil, flu	cture of locker bear
5	Gradient	One way (・・) parabol (凸 ・ 凹)) Damage of lighting yes · no 5 Barrier Trapezoidal Flu		Flucture	e of edge							
	Nearby tunnel	yes · no (m)		Damage of sign - Damage of handrail yes • no	Railing Steel Generally her	ly healthy							
5	Nearby crossing	yes · no (m)			j [Curb	-	-					
_	Traffic	Much • Medium • Little		Possibil	ty of scoul	lyes ∙ no		Pavement	asphalt • concret	General	ly healthy		
Koad	Commercial traffic	Much • Medium • Little		Walkway	yes · no			Joint	drained •undraine	d Leakage			
ſ				Vehicle	yes · no]		Drainage	yes∙ no				
- L	1.Urban	2.Suburbs 3.Mountain 4.Seaside											
~	5.Industrial 9.Salty	6.Harbor7.Residential8.Bussiness10.Cold and snow11.Heavy snow12.0thers	Vav (• ccour	(information from				
		2.Railway 3.Highway 4.Road	tion								is found at botto	m surface o	f walkway
5	5.River	6.Lake 7.Ravine 8.Valley	nspect	-			S	Remarkablecrack and exfoliation is found at bottom surface of walkway Some drainage pipe was drop off					
D	9.Waterway	10.Parking 11.Bike parkin 12.Park	Ë	 Condision of painting is not bad, but some plate thickness was responsed to the some plate the some plate thickness was responsed to the some plate the som				s reduced by corrosi					
5	13.Vacant	14.Harbor Name (Chao Phraya)							ally flange of bra ation by ship coll				
_	Superstructure	1.Inspection car 2.Falsework 3.0n ground 4.Ladder 5.Lift car 6.0n boat 7.Special camera 8.Others())		Height of	girde a	about 8.5m	- Impr	·Deronii	atton by ship con		Tound at 1 Cente	i spaii.	
method	Substructure	1.Inspection car 2.Falsework 3.0n ground 4.Ladder 5.Lift car 6.0n boat 7.Special camera 8.0thers()	S		oration of b t · fair ·	o ridge good							
10000	Reason	All bridge section is on the water If inspection car is not available, false work will be required	Diadnos	Notic	eable point ation of sl			listory o	f repair ; • Detail	survey w	as finished on Sep	0.2009 Repair	nt; - yy -

Prese	nt state (1	/ 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Brid	ge			

1
1
Side view
2
1
iew on road
3
1 / under girder

Prese	nt state (2	/ 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

		
	Picture No.	4
	Span	1
	Member	Side view of 1 span
the second of the		
	1	
	Picture No.	5
	Span	1
And an an and the second se	Member	View of walkway
A 100 - 100		
And the second sec		
	Picture No.	
	Span	1
	Member	Expansion joint
		· · ·
	Between 1st	and 2nd span
	(Thon Buri	side)

state (3	/ 19)			
DRR	Address	Bangkok	Data	24-0ct-09
Krung Thon Bridg	е			
	DRR	state(3/19)DRRAddressKrung ThonBridge	DRR Address Bangkok	DRR Address Bangkok Data

	Picture No.	7
	Span	1
	Member	Expansion joint
	Thon Buri e	
	Picture No.	8
	Span	1
	Member	Side barrier
	Fracture of	side barrier
	Picture No.	9
	Span	1
	Member	Sign
<complex-block></complex-block>		

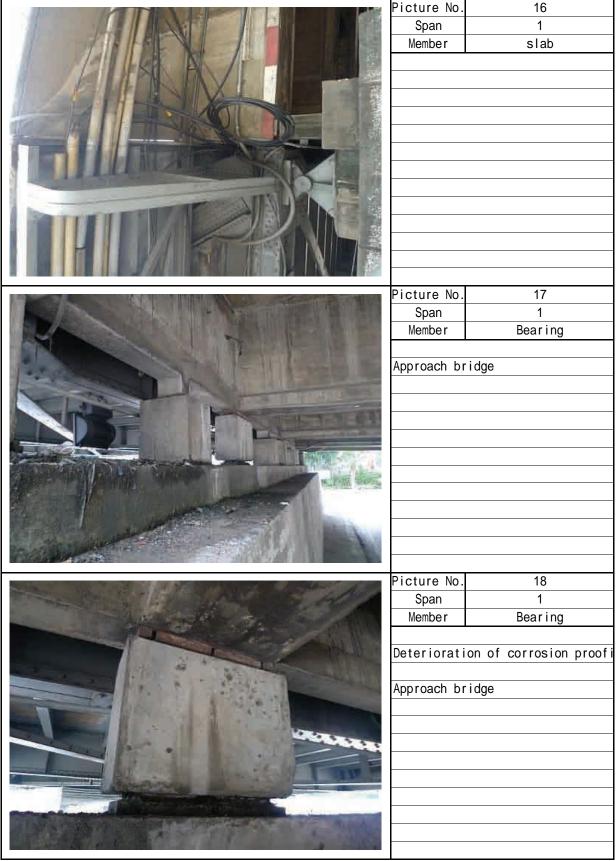
Prese	nt state (4	/ 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

Picture No. Span Member	10 1 Newe I
Picture No. Span Member Limit of ve (Thon Buri Many scratc	
Picture No. Span Member Limit of ve (Bangkok s	12 1 Approach bridge hicle height 3.2m ide)

Preser	nt state (5	/ 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

	Picture No.	13
	Span	1
	Member	Water supply
		hator capping
	Picture No.	14
	Span	1
	Member	Bottom chord
	Deformation	by vehicle collision
A Charles and a		
	Picture No.	15
The second se	Span	1
	Member	Bottom chord
	Scratch by	vehicle collision
tana at the set of a set		

Presen	nt state (6	/ 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			
-					
			D 1 . (N	40



Preser	nt state (7	/ 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

		10
	Picture No.	19
	Span	1
	Member	Bearing
	Deterioration	n of corrosion proofi
	Fructure of e	edge
Allow States		
a lot and the	Approach brid	lge
the Data of the Article		
	Picture No.	20
	Span	1
	Member	Bearing
A A STATE AND THE AND THE REAL PROPERTY AND	Bearing on cr	oss beam between
and the second s	main girder	
	Approach brid	
	Approach brid	ige
and the second s		
	Picture No.	21
	Span Member	1 Bearing
	Member	bearing
	Deterioration	n of corrosion proofi
ATT - FACTOR		

Prese	nt state (8	/ 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

	Distury No.	00
	Picture No.	22
	Span	1
	Member	Bearing
	Deformation o	f base plate
	Picture No.	23
	Span	1
	Member	Bearing
The second s		
Collection and and and and and and and and and an		
A A A A A A A A A A A A A A A A A A A		
The second second		
and the second sec		
and the second sec		
A State Production of the second		
	Picture No.	24
and the second	Span	1
	Member	Bearing
	Monibol	bournig
	Deterioration	of corrosion proof
	Deterioration	
A DESCRIPTION OF THE OWNER OF THE		
A Street of the second		

Preser	nt state (9	/ 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

	1	
	Picture No.	25
	Span	1
	Member	Bearing
manual and the second distance and the second		
	Rivet at bo	ottom side is replaced
	by bolt	
	by bort	
	It might be	e corroded before
A DEPART OF A DEPART OF A DEPART OF A	-	
		00
	Picture No.	26
	Span	1
	Member	Cross frame
	Peeling of	paint
A STREET, STATE AND A STREET, S	J =	
	Expansion	of steel by corrosion
		of steel by corrosion
and the second sec		
The second second second second		
Deventer and the second second second		
	Picture No.	27
The second se		
The second secon	Span	1
	Member	Bearing
Contraction of the second states as a	Accumulatio	n of soil
A BARANCE		
A State of the second sec		

Prese	nt state (10) / 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

	Picture No.	28
et al	Span	1
	Member	Bracket
	Reduction of	of plate thickness
State in the other		
197		
and the second with the second s		
and the second s		
	Picture No.	29 1
The second se	Span Member	Bracket
	wember	DIACKEL
	Reduction	of plate thickness
and the second state of th		
the second se		
THE REAL PROPERTY OF THE REAL		
	Picture No.	30
and the second sec	Span	1
and the second second	Member	Chord member
		1
	It's not c	ear the concept of gap
a later a later a	Gap width i	s small.
1 1 1 2 2 3 2 ° C		
22 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1		
CINE OLAND		
10 2 10 10		

Preser	nt state (1 [.]	1 / 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

		24
	Picture No.	31
Enderson and the second	Span	1
	Member	Stringer
	Deeline of	:
and a stand of the	Peeling of	paint
a start of the start of the second start		
and the second of the second of the		
and the second sec		
AT AT		
and the second of a second of the second of the		
AND SAL		
	Picture No.	32
	Span	1
	Member	Chord member
	Fracture of	concrete
A CONTRACT OF THE CONTRACT.		
A MARTINE AND		
1 A A A A A A A A A A A A A A A A A A A	Picture No.	33
	Span	1
	Member	Chord member
		prevent remaining
	water	
State A State A		
	Possibility	of corrosion inside o
AND A LAND A	concrete sl	ab
and the second		

Preser	nt state (12	2/19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			
2110.90		,-			

	Picture No.	34
	Span	1
0100111	Member	Chord member
100 12.00		
	Crack and m	ark of water
0010		
No Pe		
	Picture No.	35
	Span	1
	Member	Chord member
and the second s	Corrosion	
A CARDON CONTRACTOR		
The second		
The sea of		
- Although A		
	Picture No.	36
	Span	1
227	Member	Bottom chord
	Deteriorati	on of corrosion proofi
and the second second		
the second se		
2 2 2 2 2 2		
STATE OF THE OWNER		

Preser	nt state (13	3 / 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

	Picture No.	37
	Span	1
	Member	Upper chord
	Deteriorati	on of corrosion proofi
	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 frame	at the end of cross
	Trame	
A A A A A A A A A A A A A A A A A A A	Adjustment	of height?
ALL YOUR BERGER AND		
The second second second		
and the second second		
194 - 3 A 400 -		
and the second s		
AT A MALE		

Preser	nt state (14	4/19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

		10
	Picture No.	40
	Span	1
and the second se	Member	Chord member
	Deformation	by vehicle collision
	Picture No.	41
and the second sec	Span	1
	Member	slab
	Replaced sla	ab under roadway
and the second of the second o		
A contraction of the second se		
	Picture No.	42
The second of th	Span	1
	Member	Slab
and a with the second s		
SERVICE AND AND AND	Slab under v	valkway
	Crack and fi	ree lime

Preser	nt state (18	5 / 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	ge			

	Picture No.	43
Comment of the second of the s		43
the second s	Span	
	Member	Slab
NAMES OF TAXABLE PARTY.		
the second se	Slab under walk	way
the second state of the se	Crack and free	lime
the second se		
	Picture No.	44
	Span	1
	Member	Slab
	Member	5185
	Exposure of reb	ar
	Crack above bracket	
	Picture No.	45
A PL II STREAM AND	Span	1
	Member	slab
1 1 manual to 1		0100
	Exposure of reb	ar
		~.
BI Denter to alt - f		
the love which he		
The state for the prove		
and the second second second		
A CONTRACTOR OF A CONTRACTOR O		
1 4		

Presen	nt state (16	6 / 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	ge			

	Picture No.	46
the second s	Span	1
	Member	Slab
and the second of the second o		
	Exposure of	rebar
A CONTRACT OF A		
The state of the s		
and the second s		
Commence		
the last the		
	Picture No.	47
	Span	1
	Member	slab
	Crack on wa	lkway
· · · · · · · · · · · · · · · · · · ·	Crock openi	na io 2 4m
	Crack spaci	ng 15 2-4m.
and the second		
The second se	Picture No.	48
State Market Barrier State	Span	1
At all and the set of the little	Member	Slab
	Walkway. Cr	ack
二方 いっている 二 ちー 世	walkway. Ol	dur
The Hard Hard Hard	0.4mm~0.75	mm
Statistics HO		
CUNIT :mm 2		

Prese	nt state (17	7 / 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	je			

	Picture No.	49
	Span	1
	Member	Under bridge
	Residence u	ınder bridge
	Bangkok sic	е
	Picture No.	50
	Span	1
	Member	Slab
	Signboard c	of inspection and
	repairing w	ork
N North State Stat		
	150days fro	om 2009.Feb
	•	
	Consultant	is Norconsultant
	Picture No.	51
	Span	1
	Member	Substructure
THE REPORT OF A DESCRIPTION OF A DESCRIP		
	*SURVEN OD	board, 31-oct
	ourvey on	

Preser	nt state (18	8/19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridg	ge			

「	Picture No.	52
	Span	1
	Member	Slab
and the first of the second	Member	5140
	Falling of dra	ainage pipe
	*Survey on boa	ard, 31-oct
	Picture No.	53
	Span	1
	Member	slab
	Crack and free	e lime under walkway
	*Survey on boa	ard, 31-oct
	. <u> </u>	
	Picture No.	54
	Span	1
	Member	Slab
	Crack and free	e lime under walkway
The second state		
The second second		
	*0	
1º Bullet	*Survey on boa	ard, 31-oct
and the second sec		

Preser	nt state (19	9 / 19)			
Authority	DRR	Address	Bangkok	Data	24-0ct-09
Bridge	Krung Thon Bridge				

	Picture No.	55
The second of the second of the second of the		1
	Span Member	Slab
and the second sec	weinder	STAD
	Deformation	by ship collision
A Press A	*Survey on	board, 31-oct
	Picture No.	56
	Span	<u> </u>
	Member	Water supply
	Member	water suppry
	Deteriorati	on of corrosion proofi
	*Survey on board, 31-oct	
	Picture No.	57
	Span	1
	Member	