

Bridge Inspection											
Bridge File Number	70318 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1983/1983				Lot No.	2					
Bridge or Town Name	ELK POINT				Inspector Name	Wade Nanninga					
Located Over	NORTH SASKATCHEWAN RIVER, 6, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	41:22 C1 23.119				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	10-Apr-2012					
Legal Land Location	SE SEC 25 TWP 56 RGE 7 W4M				Data Entry By	Lisa Fairhurst					
Longitude, Latitude	-110:53:53, 53:51:41				Data Entry Date	24-Apr-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA08				Review Date	17-Apr-2012					
Clear Roadway/Skew	11 / -10 deg. (LHF)				Dept. Reviewer Name	Brent Herrick					
AADT/Year	1,790 / 2011 (A)				Dept. Review Date	04-May-2012					
Road Classification	RAU-211.8-110				Follow-Up By						
Detour Length (km)	48										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS300									----> Primary Span	

Posting Information									
Required Load Posting (t)			Single		Semi		Truck Train		
Posted Loading (t)			Single		Semi		Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Not at standard height. -914mm SE leaning								
Other Sign Types	"North Saskatchewan River" Bump & 75 km/hr Advisory Northbound 5% grade Southbound 6% grade								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	In conduit in both curbs.				Gas				
Power	5 wires OH 200m east.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curve to south. Maximum grade of 6% to north, 5% grade South road. Climbing lanes up both directions from bridge.				
Vertical Alignment			5	5					
Roadway Width (m)	12.000				SW missing bolt @ 7th post. Not thrie beam transition. SE has timber and recycled plastic posts.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes								
Guardrail			4	4					
Length (m)	99.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			5	5	Riprap installed in gullies and basins.				
Approach Road General Rating			5	5					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 5 Spans, Lengths(m): 61-75-75-75-61, A-Ident Number: A0940-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	2	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface			4	8		
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 90)						
Deck Top			N	N		
Deck Rideability			5	6		
Deck Joints			4	6	Fingers are not flat and 3-5mm up. There is not rattling of joints. Cure plates have been re-cast. New deck JT plumbing-good condition.	
Temperature (deg. C)		0				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
120		South abutment				
110		North abutment				
Deck Drainage			7	7	Drains to South.	
Drains Clogged (Y/N)		No				
Curbs/Median			5	5	Light scaling. Curb pl's recast, spalls repaired. Cracks @ 0.5-1m intervals, med/wide cracks caulked with sika flex 15m-effective.	
(Curb Type : JERSEY/F SHAPE)						
Scaling (Percent Area)		3				
Bridge Rail			7	7	On average there is a vertical crack every 2.5m. Small localized delam starting on inside face.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		8	8			
(Type :)						
Bridge Rail/Posts Coating		X	7			
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	Superstructure inspection from headslopes only. Some graffiti both ends.	
Flange			8	8		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			6	6		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 5 Spans, Lengths(m): 61-75-75-75-61, A-Ident Number: A0940-01)				
Paint Condition		7	X	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	Abut brgs re-set. Viewed pier bearings with binoculars from banks. Can't confirm, not accessible.
Temperature (deg. C)	0			
(Expansion Type : ROCKER BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Transverse cracks with efflorescence.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	6	Wide crack N abut seat
(Type : CONCRETE)				
Backwalls/Breastwalls		7	6	2 wide vertical cracks, South abut.
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		5	6	
Scour/Erosion		5	4	Head slopes settled 0.3m exposing underside of N. abut and piles Riprap in gullies and basins.
Piers/Bents				
(Type : PIER-SOLID)				Map cracking on south face of pier
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	Nose plate rusting.
Paint/Coating		5	5	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	Yes			On banks @ P4
Substructure General Rating		5	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	4	Along banks is good. Headslpe settlement @ N abut. Riprap @ headslope gullies and basins.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Fill gap under North abutment with fillcrete.					
OTHER ACTION							
OTHER ACTION	2012	Reset hazard markers to meet standard.					
OTHER ACTION	2012	Install missing bolts in approach rail.					
PATCH CURBS/PARPETS							
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	52.9/53.6	Est. Repl. Yr	2048	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor North hill, suggest goetech study. Because bridge is continuous span, any change in elevation to the N abut can be serious - 19Apr2005 Monitor deck joints for development of clatter		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Ed Kowal		Previous Assistant's Name				
Next Inspection Date	10-Jan-2014		Previous Inspection Date	25-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							