

Bridge Inspection											
Bridge File Number	73694 S-2 Bridge				Form Type	SG					
Year Built/Year Supstr	1986/1986				Lot No.	2					
Bridge or Town Name	DEVON				Inspector Name	Kris Bosters					
Located Over	LOCAL ROAD;NORTH SASKATCHEWAN RIVER, 6, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	60:02 L1 12.387				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	17-Dec-2012					
Legal Land Location	SW SEC 3 TWP 51 RGE 26 W4M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-113:45:03, 53:22:11				Data Entry Date	07-Jan-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA11				Review Date	19-Dec-2012					
Clear Roadway/Skew	11.7 /				Dept. Reviewer Name	Paul Catt					
AADT/Year	13,720 / 2011 (A)				Dept. Review Date	18-Jan-2013					
Road Classification	RAD-412.4-120				Follow-Up By						
Detour Length (km)	1										
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 Vert. Clearance Posting (m)			UNDER: LOCAL ROAD 5.5m									
Posted Vertical Clearance (Y/N)												
Posted:	Lane	SB	On Bridge (m)		In Advance (Y/N)	No	Lane	NB	On Bridge (m)		In Advance (Y/N)	No
Remarks												
Required Load Posting (t)			Single		Semi		Truck Train					
Posted Loading (t)			Single		Semi		Truck Train					
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)					
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)		No			
Remarks												
Hazard Marker At Bridge (Y/N)		Yes										
Remarks		North end.										
Other Sign Types		Slippery when wet. North Sask River.										

Utilities (Located at)				
Utility Attachments	OTHER UTILITIES-OTHER LINES; TELEPHONE UTILITIES-PHONE LINE			
Telephone	South side.		Gas	30m West
Power			Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road					
			Last	Now	Explanation of Condition
Horizontal Alignment			6	6	
Vertical Alignment			6	6	
Roadway Width (m)	13.000				Wide cracks in ACP at approaches cracked & ravelling at joints.- photo
Approach Bump			6	4	
Guardrail (Y/N)	Yes				
Guardrail			N	7	
Length (m)	40.000				
Current Standard (Y/N)	No				
Termination Type	Turned Down				
Drainage			N	4	Gullies on headslopes.-photo

Approach Road					
			Last	Now	Explanation of Condition
Approach Road General Rating			6	6	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans, Lengths(m): 70-90-90-70, A-Ident Number: A1024-02)					
Special Features					
Special Feature				X	
(Type :)					
Special Feature				X	
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow along curbs, large amount of trucks at length of bridge made walking deck hazardous. Viewed from ends at 73694N sidewalk.
Last	10	0	0	0	
Now	50.0				
Wearing Surface			5	5	Random longitudinal and transverse cracking the full length of the deck. Worn in wheelpaths. Chipseal over ACP. 0.3m short of curb.
(Material Type : ACP) (Thickness(mm) : 90)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	South & North finger plates rattle under heavy traffic.
Temperature (deg. C)		-10			
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
138		W			
140		E			
Deck Drainage			7	4	Drain trough at S abut. has heavy rust.-photos Plumbing on S abut. is leaking causing headslope erosion and deterioration of abutment deat.-photo
Drains Clogged (Y/N)		No			
Curbs/Median			5	N	Medium vertical cracking @ 300 on outsides of curb. Snow covered
(Curb Type : Standard) Scaling (Percent Area)		0			
Bridge Rail			7	7	10% of grout pads have broken edges.-24-Jun-2009 Base of posts snow covered.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			N	N	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	Viewed from banks & shore with binoculars.
Flange			7	7	
Web			7	7	
Stiffeners			7	7	
Splice			7	7	
Weld			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans, Lengths(m): 70-90-90-70, A-Ident Number: A1024-02)				
Diaphragms/Cross Frame		7	7	
Paint Condition		7	5	Weathering steel.
(Colour Description :)				Flaking rust on outside girders where joint plumbing is leaking.
(Colour Code :)				
Touchup Required (Y/N)	Yes			
Bearings		7	7	
Temperature (deg. C)	-10			Center pier fixed.
(Expansion Type : ROCKER BEARING)				Narrow cracking in grout pads.
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	6	Hairline transverse cracks with efflorescence.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		5	5	Narrow map cracks all 4 walls. Wide diagonal cracking on SW wall. Spall at corner with abut seat SW wall.
Piles		N	N	
Paint/Coating		6	6	Graffiti. Flaking in splash zone.
Abutment Stability		7	7	
Scour/Erosion		4	4	Gully (200 wide, 300 deep, 14m long) on S headslope.-photo
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				Narrow map cracking along each pier.
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		7	7	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		N	4	Gully on S headslope. (800 wide, 1m deep, 15m long.)
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	
Grade Separation				
Road Alignment		5	5	
Traffic Safety Features		4	7	
Type	Guardrail			
Slope Protection		N	6	
(Type : RIP RAP; RIP RAP)				
Bank Stability		5	5	
Drainage		N	4	Gully on S headslope.
Grade Separation General Rating		3	5	

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	2013	Paint girder ends.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair leaking joint plumbing.					
OTHER ACTION	2013	Patch ACP at approaches and along joints, seal cracks at approaches.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/66.7	Sufficiency Rating (Last/Now) (%)	59.0/57.4	Est. Repl. Yr	2052	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	17-Sep-2014		Previous Inspection Date	26-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							