

Bridge Inspection										
Bridge File Number	76633 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1968/1968				Lot No.	1				
Bridge or Town Name	HIGH LEVEL				Inspector Name	Brian Pientsch				
Located Over	SOUSA CREEK, 9.21, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	58:04 C1 59.159				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	12-Jan-2012				
Legal Land Location	SW SEC 31 TWP 110 RGE 3 W6M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-118:29:27, 58:35:30				Data Entry Date	06-Feb-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer				
Contract Main. Area	CMA01				Review Date	06-Feb-2012				
Clear Roadway/Skew	10.1 /				Dept. Reviewer Name	David Morrison				
AADT/Year	740 / 2011 (A)				Dept. Review Date	04-Apr-2012				
Road Classification	RAU-212.0-110				Follow-Up By					
Detour Length (km)	999									
Allowable Load (t):	Single		Semi		Train		---> On Critical Spans --->Critical Member			
Design Loading:	HS20						---> Primary Span			

Posting Information										
Required Load Posting (t)	Single				Semi				Truck Train	
Posted Loading (t)	Single				Semi				Truck Train	
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Remarks	Posting not required									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks										
Other Sign Types	East Sousa Creek, Trucks Steep Grade									

Utilities (Located at)										
Utility Attachments										
Telephone	North r/w				Gas					
Power	4 wire OH				Municipal					
Others	Water Survey Gauge Station-SW				Problem (Y/N)		No			
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Bottom of sag curve - no passing.				
Vertical Alignment			5	5					
Roadway Width (m)			12.800		Missing extra posts next to bridge				
Approach Bump			5	5					
Guardrail (Y/N)			Yes						
Guardrail			8	7					
Length (m)			59.000						
Current Standard (Y/N)			No						
Termination Type			TURNED DOWN ENDS						
Drainage			3	3	Roadway Drainage is causing erosion of the headslopes on SW. NW & NE corners.				
<b>Approach Road General Rating</b>			<b>5</b>	<b>5</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 10.7-12.2-10.7, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
<b>Wearing Surface/Deck Top Detail Ratings</b>					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	10.0	0.0	0.0	0.0	
Wearing Surface			7	5	(Deck has uneven grout throughout Numerous cracks in grout keys all span - 15-Sept-03) Paved over. ACP segregation at centerline.
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	(Bump at east pier joint due difference in pier height 50mm grout over pier joint blockouts breaking out - 15-sept-03) (Buffer angles at abutments-05-Nov-2006) Paved over.
Temperature (deg. C)		-7			
(Expansion Type : )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			6	N	Snow covered.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			6	N	Single layer flexbeam. (Missing 1 bolt NE Corner.-04-Jun-2010) Snow covered.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			7	N	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	2	
<b>Now</b>	0	0	0	2	
Girders			3	3	(Hole in top of span 3 girder 6 patched with ACP - 2003-09-15). Hairline longitudinal cracks with rust staining S1G6,7, and S2G2- photo. Small spall above west cap S3G2 - photo.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>36</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 10.7-12.2-10.7, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		X	X	Concrete girders sit directly on timber cap.
Temperature (deg. C)	-7			
(Expansion Type : )				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		3	3	Water stain through grout keys & at piers-some patched. Water leaking through span 2, G6 and G7.
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	Yes			50 mm diff east pier north end 20 mm diff east pier south end 20mm diff West pier North end.
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		5	5	
(Type : TREATED TIMBER)				
Backwalls/Breastwalls		3	3	Approach fill migrating through both abut backwall sheeting.
Wingwalls		X	X	
Piles		5	5	
Paint/Coating		X	X	
Abutment Stability		4	4	Approach fill migrating through both abutments.
Scour/Erosion		3	3	EWrosion scour scars on both headslopes originating from approach runoff.
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				Uneven settlement between double row of piles on both piers. Rot suspected pier 1, N end W. cap - Minor deformation where cap is bearing on end pile.
Bearing Seats/Caps		4	4	
(Type : TREATED TIMBER)				
(Total Number of Bearing Piles : 19:19)				Sheeted in.
Pier Shaft/Piles		N	N	
Bracing/Struts/Sheathing		5	5	
Nose Plate		5	4	Hole rusted through pier 1 nose plate.
Paint/Coating		4	4	Rusting
(Colour Description : )				
(Colour Code : )				
Pier Stability		3	3	Uneven settlement of pile rows in both piers.
Scour		5	5	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>3</b>	<b>3</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				Hwm not visible.
Drift (Y/N)	Yes			Large size
Slope Protection		4	4	Partially rip-rapped with rock. Head-slopes have erosion gullies.
(Type : <b>RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Assessment for bridge replacement/repair - suspect rot pier 1					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>42.5/41.3</b>	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor uneven settlement on both piers. Monitor girder cracks. Consider differing major repairs until replacement.		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	Brian Pientsch		Previous Assistant's Name				
Next Inspection Date	12-Oct-2013		Previous Inspection Date	04-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							