

Bridge Inspection									
Bridge File Number	01402 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1957/1957				Lot No.	4			
Bridge or Town Name	CASTOR				Inspector Name	Owen Salava			
Located Over	CASTOR CREEK, 5.20, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	599:02 C1 1.318				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	13-Sep-2012			
Legal Land Location	SE SEC 35 TWP 37 RGE 14 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-111:53:37, 52:12:57				Data Entry Date	02-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA21				Review Date	27-Sep-2012			
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	750 / 2011 (A)				Dept. Review Date	16-Oct-2012			
Road Classification	RCU-208-110				Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single	CS1 69 GIRDER	Semi	CS2 85 GIRDER	Train	CS3 102 GIRDER	----> 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Mounted too high, 1.6m to bottom.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	South r/w.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Farm access 100m East; widened roadway 100-300m NE to accommodate cemetary parking. Slight sag curve. No passing both directions.				
Vertical Alignment			6	6					
Roadway Width (m)	8.000								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	15.200								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : <b>RB, 2 Spans, Lengths(m): 24.4-24.4, A-Ident Number: A0242-01;A0242-03</b> )							
<b>Special Features</b>							
Special Feature			X				
(Type : )							
Special Feature			X				
(Type : )							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
<b>Last</b>							
<b>Now</b>	0.0	0.0	0.0	0.0			
Wearing Surface			8	4	Localized area expose concrete deck.		
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )							
(Thickness(mm) : <b>80</b> )							
Deck Top			N	N			
Deck Rideability			8	8			
Deck Joints			9	7			
Temperature (deg. C)		25					
(Expansion Type : )							
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )							
Gap Size (mm)		Gap Location					
72		A1 - Fixed - Gland					
71		P1 - Fixed - Gland					
78		A2 - Fixed - Gland					
Deck Drainage			7	7	All drainage leaks off edge of deck.		
Drains Clogged (Y/N)		No					
Curbs/Median			X	X			
(Curb Type : <b>Standard</b> )							
Scaling (Percent Area)							
Bridge Rail			9	9	Dirty		
(Type : <b>GALVANIZED STEEL THRIE BEAM</b> )							
Bridge Rail Posts			9	9			
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )							
Bridge Rail/Posts Coating			9	9			
(Type : <b>GALVANIZED</b> )							
Sidewalk			X	X			
<b>Girder/Beam</b>							
Cover Plate			7	7	15-20 mm sag in each span.		
Flange			7	7			
Web			7	7			
Stiffeners			7	7			
Splice			7	7			
Weld			7	7			
Diaphragms/Cross Frame			7	7			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>RB, 2 Spans, Lengths(m): 24.4-24.4, A-Ident Number: A0242-01;A0242-03</b> )				
Paint Condition		5	5	Areas of corrosion. Peeling paint on exterior girders.
(Colour Description : <b>GREEN</b> )				
(Colour Code : <b>14090</b> )				
Touchup Required (Y/N)	No			
Bearings		5	5	Shoe plates are joined at expansion joint at pier. No evidence of movement on expansion joint.
Temperature (deg. C)	25			
(Expansion Type : )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		9	9	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Estimate deck to streambed about 12-13m.
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				Sharp bends U/S & D/S.
(D/S Direction : <b>N</b> )				
Alignment		6	6	
Bank Stability		7	7	Significant amount of vertical face sandstone rock outcrop. All other bank areas well grassed or treed.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Beaver dam across channel about 8m U/S of pier (S).
Slope Protection		7	7	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>76.9/76.9</b>	Est. Repl. Yr	2043	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy	2006.07.25 Bridge rehabilitated in 2003. Does not see much salt. Should be good until 2050, only concern narrow roadway. Do chip seal by 2010.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	13-Dec-2015		Previous Inspection Date	06-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							