

Bridge Inspection									
Bridge File Number	08123 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1974/1974				Lot No.	3			
Bridge or Town Name	BULWARK				Inspector Name	Owen Salava			
Located Over	TRIBUTARY TO NELSON CREEK, 5.18.1, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	599:04 C1 23.732				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	17-Sep-2012			
Legal Land Location	SW SEC 3 TWP 38 RGE 11 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-111:29:52, 52:13:49				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	8.8 / -45 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	730 / 2011 (A)				Dept. Review Date	16-Oct-2012			
Road Classification	RLU-208-100				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> 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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	South r/w.				Gas				
Power	3 wires 15m north of c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	1000m west of NE 34-37-11-4. Farm access 20m East. Sag curve, poor sight distance both directions.				
Vertical Alignment			6	6					
Roadway Width (m)	8.200				NE rail, 3 damaged sections with 3 broken posts - photo.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			4	4					
Length (m)	22.000								
Current Standard (Y/N)	No								
Termination Type	Turn 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 : VS, 3 Spans, Lengths(m): 6.1-9.1-6.1, A-Ident Number: )					
<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			6	6	Cracks over piers. Wide crack S2 along centreline.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	ACP covered.
Deck Rideability			6	6	
Deck Joints			N	N	ACP covered. Buffer angles.
Bump (Y/N)		No			
Deck Drainage			7	7	No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Collision damage at all joints, minor.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			7	7	Double layer.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			8	8	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			8	8	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Girders			5	5	Typical diagonal & longitudinal narrow cracks, minor spall @ end of SP2G1. Staining at bolt pockets.  Paved over, not visible. Long cracks along girder edges in ACP.
Last Complete Inspection Date		17-Sep-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>24</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			50mm misalign of center span - photo.
Horizontal (Y/N)		Yes			
<b>Superstructure General Rating</b>			<b>5</b>	<b>5</b>	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1300)					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Bearing Seats/Caps/Corbels				7	7
(Type : TREATED TIMBER)					
(Depth(mm) : 350)					
(Width(mm) : 305)					
Backwalls/Breastwalls				7	7
Greatest Height (m)		1.20			
Wingwalls				4	4
Top planks rotted/broken.					
(Total Number of Bearing Piles : 0:0)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	6				
<b>Now</b>	6	0	0	0	
Piles				5	5
Paint/Coating				X	X
Abutment Stability				7	7
Scour/Erosion				7	7
<b>Piers/Bents</b>					
(Type : PIER-COLUMN)					
West cap N/S ends cracking, minor.					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Bearing Seats/Caps/Corbels				6	6
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 350)					
(Total Number of Bearing Piles : 10:9)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Pier Shaft/Piles				6	6
Greatest Height (m)		2.00			
Bracing/Struts/Sheathing				6	6
Nose Plate				X	X
Paint/Coating				X	X
(Colour Description : )					
(Colour Code : )					
Pier Stability				7	7

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	Yes			Old piles & wingwalls, not a problem.
<b>Substructure General Rating</b>		<b>5</b>	<b>5</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)	No			
Slope Protection		6	6	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(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							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Seal ACP cracks.					
OTHER ACTION	2012	Replace 3 guardrail sections c/w 3 timber posts.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>65.4/65.2</b>	Est. Repl. Yr	2021	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	Owen Salava	Previous Assistant's Name					
Next Inspection Date	17-Dec-2015	Previous Inspection Date	06-Oct-2009				
Inspection Cycle (Default) (months)	39						
Comment							