

Bridge Inspection									
Bridge File Number	75812 S-2 Bridge				Form Type	PCS			
Year Built/Year Supstr	1963/2001				Lot No.	1			
Bridge or Town Name	PONOKA				Inspector Name	Owen Salava			
Located Over	25113:02 C1 0.131				Inspector Class	BR CLS A			
Located On	2:26 L1 42.075				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	08-Mar-2013			
Legal Land Location	NW SEC 27 TWP 42 RGE 26 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:39:50, 52:38:57				Data Entry Date	26-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA17				Review Date	16-Mar-2013			
Clear Roadway/Skew	10 /				Dept. Reviewer Name	Chris Black			
AADT/Year	23,260 / 2011 (A)				Dept. Review Date	28-Mar-2013			
Road Classification	RFD-412.4-130				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:	CS750				----> Primary Span				

Posting Information										
Required Vert. Clearance Posting (m)	UNDER: 25113 C1 3.9m									
Posted Vertical Clearance (Y/N)	Yes									
Posted:	Lane	EB	On Bridge (m)	4.0	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	In Advance (Y/N)
Remarks	Measured 4.18m at NW of Northbound structure. On NB bridge.									
Required Load Posting (t)	Single				Semi		Truck Train			
Posted Loading (t)	Single				Semi		Truck Train			
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
Remarks	Not required.									
Hazard Marker At Bridge (Y/N)	No									
Remarks	Not required.									
Other Sign Types										

Utilities (Located at)									
Utility Attachments									
Telephone					Gas	West r/w.			
Power					Municipal				
Others	Fibre optics West r/w.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curve at North end.				
Vertical Alignment			6	6	Crest at South end, limited sight distance.				
Roadway Width (m)	12.500								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				No guardrail @ SE & SW corners, ok.				
Guardrail			7	7					
Length (m)	72.000								
Current Standard (Y/N)	Yes								
Termination Type	Turn Down								
Drainage			6	6	Water @ bridge corners allowed to drain onto backwall without controls.				
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SC, 1 Spans, Lengths(m): 9.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	5.0	0.0	0.0	0.0	
Wearing Surface			5	5	Longitudinal cracks reflecting through the asphalt.
(Material Type : ACP)					
(Thickness(mm) : 125)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			5	5	No drains. Drains at corners with no control other than to drain down backwall.
Drains Clogged (Y/N)					
Curbs/Median			5	4	2.0m delam on East curb outside edge.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Thrie beam. Dirty.
(Type : GALVANIZED STEEL THRIE BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	1	
Girders			4	3	Wide crack continuous along G11 fascia beyond the spall at A1. G11 high load damage to W curb bottom edge. G11 at both bearing areas have spalls due to being forced into the concrete backwalls (photo).
Last Complete Inspection Date		08-Mar-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 11)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	3	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels			5	5	Spot corrosion at North cap. Vertical cracking along caps.	
(Type : CONCRETE)						
(Depth(mm) : 1100)						
(Width(mm) : 700)						
Backwalls/Breastwalls			6	6		
Greatest Height (m)		4.30				
Wingwalls			5	5	A few of the wire tiebacks have broken on wingwalls with general movement inward.	
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles			7	7	Piles appear to be driven battered. 310 x 94 H-pile.	
Paint/Coating			X	X		
Abutment Stability			7	7		
Scour/Erosion			X	X		
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels			X	X		
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles			X	X		
Greatest Height (m)						
Bracing/Struts/Sheathing			X	X		
Nose Plate			X	X		
Paint/Coating			X	X		
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	Horizontal curve to the West, no passing both directions.
Traffic Safety Features		5	5	Both East ends are not buried but left 300mm high.
Type	Guardrail			
Slope Protection		X	X	
(Type : NONE; NONE)				
Bank Stability		6	6	
Drainage		5	5	(50mm deep pond @ NE of NB structure. 16Sep2011).
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2013	Patch curb spalls.					
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	2013	Patch high load chips to G1 & G11 spalls.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	38.5/35.7	Est. Repl. Yr	2028	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	08-Dec-2014		Previous Inspection Date	16-Sep-2011			
Inspection Cycle (Default) (months)	21						
Comment							