

Bridge Inspection										
Bridge File Number	00983 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1959/1959				Lot No.	2				
Bridge or Town Name	ECKVILLE				Inspector Name	Jason Saly				
Located Over	MEDICINE RIVER, 3.88, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	766:12 C1 6.381				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	16-Feb-2012				
Legal Land Location	NW SEC 22 TWP 39 RGE 3 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-114:21:35, 52:22:35				Data Entry Date	09-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA18				Review Date	28-Feb-2012				
Clear Roadway/Skew	7.9 /				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	1,140 / 2010 (A)				Dept. Review Date	14-Mar-2012				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	3									
Allowable Load (t):	Single	CS1 35 GIRDER	Semi	CS2 49	Train	CS3 62	---> 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		40.0	Truck Train	54.0
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Determine if posting is required & erect as necessary.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Curve.								

Utilities (Located at)										
Utility Attachments										
Telephone	Buried cable 15m East of c/l.				Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		4	4	In between two curves. 'T' intersection 40m to the SW.					
Vertical Alignment		7	7						
Roadway Width (m)	10.900								
Approach Bump		6	6	45.6 @ NE, 53.2 @ NW, SE & SW (radius).					
Guardrail (Y/N)	Yes								
Guardrail		7	6						
Length (m)	45.600								
Current Standard (Y/N)	Yes								
Termination Type	TURNED DOWN								
Drainage		7	7						
Approach Road General Rating		4	4						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 2 Spans, Lengths(m): 21.3-21.3, A-Ident Number:)					
Special Features					
Special Feature		8	8		
(SType : EXT SHEAR STIRRUP)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered gutters.
Last	0	0	0	0	
Now	10.0	0.0	0.0	0.0	
Wearing Surface		6	6	Chipseal coat on steel fibre silica fume concrete o/l (FRSF placed in 1998. No debonding as of 2009.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	6		
Temperature (deg. C)	-7				
(Expansion Type :)					
(Fixed Type : ASPHALTIC FIBRE BOARD)					
Gap Size (mm)	Gap Location				
70	South abutment				
75	Pier				
71	North abutment				
Deck Drainage		7	N	Snow covered.	
Drains Clogged (Y/N)	No				
Curbs/Median		4	N	(NW & SW curb end spalled / scaling. Crack in E curb over drain in S1. 13Sep2005) - Snow covered.	
(Curb Type : Standard)					
Scaling (Percent Area)	2				
Bridge Rail		4	4	Double layer; 24 splice each side missing 4 bolts each.	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		3	3	Has galvanized steel blocking; blocking slightly rotated - no problem. 3rd post from N abut, (E rail has one sheared post A/B - photo. 13Sep2005). Rating carried forward based on previous inspector's comments. Round.	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders		6	6	Hairline cracks at chamfer line.	
Cracking (Y/N)	Yes				
Spalling (Percent Area)	0				
(Number Of Girders : 8)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 2 Spans, Lengths(m): 21.3-21.3, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	Abutment diaphragms rusty.
Bearings		4	4	Rusty bearings, missing 1 nut on S2G3 N abut.
Temperature (deg. C)	-7			
(Expansion Type :)				
(Fixed Type :)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	3	There is significant erosion of the N hslp.
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	4	Rusting on noseplate.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		6	N	
Debris (Y/N)	Yes			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	3	Significant erosion of the N hslp from high water event.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	3	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2012	Repair one shear post A/B East side, if not yet done.								
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS	2012	Patch NW / SW corners & crack in East side over drain & seal, if not yet done.								
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION	2012	Re-work N hslp.								
PLACE ADDITIONAL RIP RAP	2012	Add 15m3 CL2 rock riprapp.								
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2020	Paint abutment diaphragms at next major rehab.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	49.0/45.4	Est. Repl. Yr	2030	Maint. Req'd. (Y/N)	Yes			
Special Comments for Next Inspection	Determine if 40t/54t posting is required & post as necessary. 2009 CSE testing report estimates next major rehab to take place in 2030.		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	Dave Lam		Previous Assistant's Name							
Next Inspection Date	16-May-2015		Previous Inspection Date	13-Sep-2005						
Inspection Cycle (Default) (months)	39									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Repair one shear post A/B East side, if not yet done.	programmed	2013		
GALVANIZE/PAINT BRIDGE RAIL						
SEAL CURBS	2012	Patch NW / SW corners & crack in East side over drain & seal, if not yet done.	programmed	2013		
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION	2012	Re-work N hslp.	programmed	2013		
PLACE ADDITIONAL RIP RAP	2012	Add 15m3 CL2 rock riprapp.	programmed	2013		
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2020	Paint abutment diaphragms at next major rehab.	defer until next rehab			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	49.0/45.4	Est. Repl. Yr	2030	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Determine if 40t/54t posting is required & post as necessary. 2009 CSE testing report estimates next major rehab to take place in 2030.		Department Comments	DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	22-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy						
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Dave Lam		Previous Assistant's Name			
Next Inspection Date	16-May-2015		Previous Inspection Date	13-Sep-2005		

Inspection Cycle (Default) (months)	39
Comment	