

Bridge Inspection										
Bridge File Number	77753 W-1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1974/1974				Lot No.	2				
Bridge or Town Name	EDSON				Inspector Name	Shane Hall				
Located Over	MCLEOD RIVER, 8.11.107, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	16:06 L1 17.025				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	10-Aug-2012				
Legal Land Location	NW SEC 17 TWP 53 RGE 16 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-116:20:05, 53:34:54				Data Entry Date	28-Aug-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA13				Review Date	24-Aug-2012				
Clear Roadway/Skew	12.2 / 20 deg. (RHF)				Dept. Reviewer Name	Brent Herrick				
AADT/Year	8,250 / 2011 (A)				Dept. Review Date	30-Aug-2012				
Road Classification	RAD-412.4-120				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:	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)		In Advance (Y/N)		At Bridge (Y/N)		
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	East end only.								
Other Sign Types	Information, "McLeod River"								

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

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Curve to West.					
Vertical Alignment		7	7						
Roadway Width (m)	11.600								
Approach Bump			6	6					
Guardrail (Y/N)	Yes		Not thrie beam type, all corners.						
Guardrail			5	4	Collision damage, 2 sections @ NE, pushed in 100mm.				
Length (m)	99.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			6	6					
Approach Road General Rating		7		7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 5 Spans, Lengths(m): 38.1-38.1-38.1-38.1-38.1, A-Ident Number:)					
Special Features					
Special Feature		7	7	Epoxy coated dywidag bars. Old hangers between G4/G5 legs removed, all spans.	
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface		5	5		
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 90)					
Lateral Connection Problem (Y/N)		No			
Deck Top		N	N		
Deck Rideability		7	6		
Deck Joints		7	3	17 cover plate bolts sheared @ A1 - plate slapping under traffic. - photo Armoured gland.	
Temperature (deg. C)		21			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
50		Abutment 1			
80		Pier 1			
72		Pier 2			
67		Pier 3			
75		Pier 4			
75		Abutment 2			
Deck Drainage		6	4	Stained girder U/S @ weep tubes. Water ponding at North side in center of span 2.-photo	
Drains Clogged (Y/N)		No			
Curbs/Median		5	5	Curbs patched 2007 rehab. Vertical cracks/corrosion stain under posts. Pronounced sag in ext curb line - photo.	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail		7	7		
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		7	7		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		5	5		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	Too high/not accessible - SP2, SP3 & SP4. Viewed from banks.
Last	24	0	0	0	
Now	24				
Girders		5	4	4 vertical girder end cracks. Girders SP1/G1, SP5/G2, G4 & G5 legs patched. Camber gone out of girders & curbs sagging. Random rust spots bottom of girder legs, all spans. SPALL WITH EXPOSED REBAR AT w END OF SP2G1.-PHOTO	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 40)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 5 Spans, Lengths(m): 38.1-38.1-38.1-38.1-38.1, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		5	5	P2 & P3 bearings not accessible to be viewed with binoculars. P1 & P4 Viewed from banks with binoculars-appears ok. A1,A2 bearings not accessible.
Temperature (deg. C)	21			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	3	Punchout at underside of SP1G8 @ West end.-photo Water staining and start of several more punchouts along same girder. Delamination with exposed rebar near midspan of S1G8.- photo Similar water staining @ S2G8.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	5	Significant dirt/debris buildup under G7,G8 @ pier 1.-photo
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		4	4	Map cracking, spot corrosion, delams. Wide crack at top of SE curtain wall.-photo
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 1:1:1:1)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		5	5	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	4	Void under A1 & A2 due to settlement.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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	2013	Repair punchouts/delams at deck underside.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2015	Repair sheared coverplate bolts.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Investigate dirt/debris buildup on top of P1.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	62.6/57.0	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor ponding on deck. Monitor crack at wingwall.		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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	10-May-2014		Previous Inspection Date	14-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							