

Bridge Inspection									
Bridge File Number	77528 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	WOLF CREEK, 8.11.107.26, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	16:06 L1 24.337				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Aug-2012			
Legal Land Location	NW SEC 13 TWP 53 RGE 16 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:13:39, 53:34:45				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	13.4 / -10 deg. (LHF)				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, "Wolf Creek".								
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	Not thrie beam transition. East end only.				
Vertical Alignment			7	7					
Roadway Width (m)	11.500								
Approach Bump			5	5					
Guardrail (Y/N)	Yes								
Guardrail			6	6					
Length (m)	46.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			4	4	NW drainage causing erosion @ headslope. No approach concrete down drain.				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 2 Spans, Lengths(m): 36.6-36.6, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		7	7		
(Type : <b>EXT LATER POST TENS</b> )					
Special Feature		7	7		
(Type : <b>UNDERSLUNG DIAPHR</b> )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>					
Wearing Surface		4	4	Chipseal on concrete overlay. Loss of seal coat along deck joints, 1%.	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		5	5	The pier is causing a slight bump from spans sagging.	
Deck Joints		4	4	There are two different joints @ pier, North half is gland type, South half is armoured gland type.  South - armour gland gap - 90mm. North - gland gap - 70mm.	
Temperature (deg. C)		21			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
45		West abutment			
70		Pier			
35		East abutment			
Deck Drainage		4	4	Gully @ NW headslope.	
Drains Clogged (Y/N)		No			
Curbs/Median		4	3	Three chip/delam @ South side S1. Grader scrape @ NW corner. Several delams/spalls @ North side.  Deteriorating around edges of old partial depth repairs. 400mm long spalls on S side of S curb @ pier.-photo	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		5			
Bridge Rail		7	7	Grout pads beginning to spall away, 10% of A/B with insufficient thread.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		4	4	Bottom row rail connection bolts are almost pulled through at 3 posts @ NE corner.-photo	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		7	7		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 2 Spans, Lengths(m): 36.6-36.6, A-Ident Number: )				
Girders		4	4	Typical chamfer cracking @ ends. Vertical crack North girder S1 @ pier. Vertical crack South girder S2 @ pier. Vertical & diagonal crack in SE girder end extending into curb - photo. S2G5E & S2G9E North leg longitudinal crack ext from brg in girder leg.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 18)				
Diaphragms/Cross Frame		5	5	Several are cracked at end blocks. SP2G5 spalled (300x150) at E end.
Bearings		4	4	Bearing pads are distorted due to grout pads & girder bearing surface not horizontal. Grout pads & girders at varying angles.  Pier bearings inspected from banks with binoculars
Temperature (deg. C)	21			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	Yes			The span 5 have sag (negative camber) that causes a bump at pier.
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	5	Map cracking and parging coming loose @ SE corner.-photo
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		4	4	100mm gap under East abutment . Fill settled. Erosion gully @ NW corner.
<b>Piers/Bents</b>				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 1)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	Vertical cracking evident from banks.
Nose Plate		7	7	
Paint/Coating		5	5	Superficial rust on nose plate.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		7	7	No evident concerns.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
<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> )				
(D/S Direction : <b>N</b> )				
Alignment		6	6	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		4	4	Erosion gully @ NW corner.
(Type : <b>RIP RAP; 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>4</b>	<b>4</b>	

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							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair curb spall at South curb @ pier- consider repairing other spalls/delams at same time.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.0/58.9</b>	Est. Repl. Yr	2040	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection	Girder profile should be surveyed to obtain base data for future monitor assessment of sag.		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							