

Bridge Inspection									
Bridge File Number	77315 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1975/1975				Lot No.	2			
Bridge or Town Name	EDSON				Inspector Name	Shane Hall			
Located Over	CNR				Inspector Class	BR CLS A			
Located On	16:06 C1 11.873				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	11-Aug-2012			
Legal Land Location	SE SEC 22 TWP 53 RGE 17 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:24:35, 53:35:08				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	16.5 / -26 deg. (LHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	8,250 / 2011 (A)				Dept. Review Date	30-Aug-2012			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	3								
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 Vert. Clearance Posting (m)									
Posted Vertical Clearance (Y/N)		No							
Posted:	Lane	NB	On Bridge (m)	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N) No
Remarks	Not required. CNR o/p.								
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)		No							
Remarks		Not required.							
Other Sign Types		Information, Warning, Speed.							

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE								
Telephone	South r/w.				Gas				
Power	Inside north curb.				Municipal	Light standards at ends.			
Others	Supernet North r/w. CN signals.				Problem (Y/N)	No			
Remarks	ASCM @ NE corner. Cables cut and hanging out of curb @ SW corner.-photo								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Busy intersection at west end.				
Vertical Alignment			6	6	Typical crest curve for overpass.				
Roadway Width (m)		16.500			Approach at N end and SE corner is punching out creating bump for E and W bound traffic.-photo				
Approach Bump			7	4					
Guardrail (Y/N)		Yes			Not thrie beam transition.				
Guardrail			6	6					
Length (m)		61.000							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage			6	6					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RD, 3 Spans, Lengths(m): 20.1-20.1-20.1, A-Ident Number:)					
Special Features					
Special Feature			7	Stairs.	
(Type :)					
Special Feature			7		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0		
Now					
Wearing Surface			4	4	Chipseal over 50mm concrete. 15% chipseal peeled. Lost seal coat along the deck joints.
(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			4	4	Sidewalk joints allow water onto substructure. The East joint is ripped open and a poor detail on remaining allowing water to drain onto pier cap. Joints filled with dirt & debris. 3 missing deflectors West abutment joint.-photo 2 missing deflectors West pier joint. 2 missing deflectors East pier joint. 8 missing deflectors East abutment joint.-photo Curb cover plate at NW corner has slight bend from plow hit.
Temperature (deg. C)		12			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
65			E. abut		
80			E. pier		
80			W. pier		
85			W. abut		
Deck Drainage			4	4	Leakage between G14 and G15 causing underside stain. No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	One spall in N curb outside face of S curb has numerous vertical cracks,
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			8	8	Insufficient threads (70%).
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			5	4	Several delaminations/spalls near W end.
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	6	
Now				6	
S3G1 has hairline diagonal crack extending from E end of girder and spall in same area.-photo					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RD, 3 Spans, Lengths(m): 20.1-20.1-20.1, A-Ident Number:)				
Girders		3	3	Longitudinal isolated cracks S3G1, S3G2, S3G15, S1G8, S2G15, S1G15 with corrosion staining at underside - photo. Water leaking between G14/G15. Because the sidewalk drains allow deck water to migrate onto girder, G15 on all 3 spans has rust spots. Vertical crack within 100mm of E end of SP1G1 (photo). Vertical crack with staining within 100mm of W end of SP3G1.-photo S. side S1G15 is spalling near A1.-photo.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 48)				
Diaphragms/Cross Frame		X	X	
Bearings		6	6	
Temperature (deg. C)	10			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Underside center span stained from train exhaust. Girder underside delam spall around drain @ S1G15 - photo.
Stains (Percent Area)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		4	4	50% peeled.
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		4	4	Both caps are scaling 5%, coating peeling and a few rust stains showing through. Both caps have narrow small stained cracks. Cap @ P1 delaminating at S. End and wide crack crack over piles.-photo
(Type : CONCRETE)				
(Total Number of Bearing Piles : 10:10)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Paint peeling on 1 pipe pile along Rusting at bases.
(Colour Description : GREEN)				
(Colour Code : 14090)				
Pier Stability		8	8	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	6	Lock block barrel at P2.
Type	Lock Blocks			
Slope Protection (Type : CONCRETE; CONCRETE)		4	4	Settled 230 mm east abutment and 50 mm gap. West 170 mm gap and settled 125. Top panels @ Westabutment heaved - photo. Graffiti on headslopes.
Bank Stability		4	4	
Drainage		7	7	
Grade Separation General Rating		4	4	

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	2013	Fix sidewalk seals, replacing missing plow deflectors, extend drain past caps & bottom of girders.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2013	Patch crack/delam at P1, South end.					
OTHER ACTION	2013	Patch ACP at approaches.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	48.7/48.6	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder crakcing.		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	11-May-2014		Previous Inspection Date	14-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							