

Bridge Inspection									
Bridge File Number	77493 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1961/1961				Lot No.	2			
Bridge or Town Name	EXSHAW				Inspector Name	Garry Roberts			
Located Over	ELPOCA CK, 2.13.56.20.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	LOCAL ROAD				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	24-Aug-2012			
Legal Land Location	SW SEC 5 TWP 20 RGE 8 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-115:04:36, 50:39:50				Data Entry Date	26-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA28				Review Date	31-Aug-2012			
Clear Roadway/Skew	7.2 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	20 / 2005 (E)				Dept. Review Date	02-Oct-2012			
Road Classification	RLU-208-100				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single	CS1 38 GIRDER		Semi	CS2 42 GIRDER		Train	CS3 52 GIRDER	
Design Loading:	HS20							----> On Critical Spans ---->Critical Member	
								----> Primary Span	

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		53
Posted Loading (t)	Single				Semi		Truck Train		
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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	30 km/hr. Road closed.								

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks	None visible.								

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		4	4	Sharp curve at North end - photo. OK for posted speed. 30 km/hr. Valleyview trail.					
Vertical Alignment		5	5	Road is currently closed. Steel plates over backwall timber @ North.					
Roadway Width (m)		9.000		Gravel approach.					
Approach Bump		5	5						
Guardrail (Y/N)		Yes		Wrong lap at SW, SE, NW.					
Guardrail		7	4	Missing 1 post at SW.					
Length (m)		11.400		Rail not attached to bridge rail and not thriebeam.					
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage		7	5	Minor erosion at SW.					
Approach Road General Rating		4	4						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FC, 1 Spans, Lengths(m): 30.4, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	100					
Now	0.0	0.0	0.0	0.0		
Wearing Surface			X	X		
(Material Type :)						
(Thickness(mm) :)						
Lateral Connection Problem (Y/N)		Yes				
Deck Top			N	6		
Deck Rideability			6	7		
Deck Joints			N	5	Steel plate welded to buffer angles - bearing on 300 x 300 TT backwall timber @ North.	
Temperature (deg. C)		12				
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
Deck Drainage			4	4	Leakage between girders @ South grout keys.	
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	Minor damage to top of curb @ NE and NW. Curb void exposed NE. Small break @ West curb - 5th post from SW.	
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail			5	4	Single layer. Wrong lap at SW and NE.	
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts			8	7		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			8	7		
(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	0		
Girders			4	4	Cracking @ girder ends in top chamfer. Extends into deck area & appears typical of F.C. girders. Map cracking & random surface cracks. Medium hairline - worst 0.6mm wide @ SW. Marked @ SW.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 5)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 1 Spans, Lengths(m): 30.4, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	Several diaphragms cracked, some with staining.
Bearings		4	5	Neoprene pads are squashed to 1/4". Still functions.
Temperature (deg. C)	12			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Active leakage at South end grout keys but not causing problems at present.
Stains (Percent Area)	2			
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		4	4	Minor spalls at ends.
Wingwalls		X	X	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		8	7	
Scour/Erosion		8	7	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		8	8	HWM not visible.
Bank Stability		9	8	
HWM (m below Top of Curb)				Minor drift in channel.
Drift (Y/N) Yes				
Slope Protection (Type : NATURAL; NATURAL)		9	9	Bedrock canyon.
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install 1 approach post at SW or attach to bridge rail.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Patch NE and NW curb spalls and seal off void- approx 0.3m3 grout.					
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/55.6	Sufficiency Rating (Last/Now) (%)	50.2/53.0	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Repairs appear to be low priority as road and bridge are currently closed to public traffic. (G.Roberts).		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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	24-Nov-2015		Previous Inspection Date	21-Oct-2008			
Inspection Cycle (Default) (months)	39						
Comment							