

Bridge Inspection											
Bridge File Number	75498 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1970/1970					Lot No.	3				
Bridge or Town Name	EXSHAW					Inspector Name	Garry Roberts				
Located Over	1:02 L1 31.596;1:02 R1 31.681					Inspector Class	BR CLS A				
Located On	1X:02 L1 0.277;1X:02 R1 0.276					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	09-Feb-2012				
Legal Land Location	NE SEC 28 TWP 24 RGE 8 W5M					Data Entry By	Erin Roberts				
Longitude, Latitude	-115:03:27, 51:04:41					Data Entry Date	14-Mar-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey				
Contract Main. Area	CMA28					Review Date	22-Feb-2012				
Clear Roadway/Skew	15.2 / -15 deg. (LHF)					Dept. Reviewer Name	Tim Davies				
AADT/Year	1,090 / 2010 (A)					Dept. Review Date	22-Mar-2012				
Road Classification	RAU-213.4-110					Follow-Up By					
Detour Length (km)	50										
Allowable Load (t):	Single	CS1 35			Semi	CS2 61		Train	CS3 77 GIRDER		----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 1 L1 5.4m, 1 R1 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.4	In Advance (Y/N)	Yes
Remarks	SIGNED @ EB OFF RAMP ALSO. Confirmed posting is accurate Sept 17, 2010. Missing E/B sign on bridge.											
Required Load Posting (t)			Single		Semi			Truck Train				
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)		No										
Remarks												
Other Sign Types		ROUTE, SPEED 40KM/HR										

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

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		5	5		
Vertical Alignment		5	5		
Roadway Width (m)		15.200			
Approach Bump		6	6		
Guardrail (Y/N)		Yes		Dents and bends - at NE & SW corner - still functioning - minor Not thriebeam	
Guardrail		6	6		
Length (m)		38.000			
Current Standard (Y/N)		No			
Termination Type		TURNED DOWN			
Drainage		7	7		
Approach Road General Rating		5	5		

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : FC, 2 Spans, Lengths(m): 35.1-35.1, A-Ident Number:)							
Special Features							
Special Feature							
(Type :)							
Special Feature							
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
Last	0	0	0	0			
Now	0.0	0.0	0.0	0.0			
Wearing Surface			7	7	Fibre reinforced concrete Several isolated popouts Active leakage at G6- G7 grout keys at end 3m of both abutments under center median		
(Material Type : CONCRETE)							
(Thickness(mm) : 50)							
Lateral Connection Problem (Y/N)	Yes						
Deck Top			N	N			
Deck Rideability			8	8			
Deck Joints			8	8			
Temperature (deg. C)		-5					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
95		Pier					
75		S. abut					
80		N. abut					
Deck Drainage			4	4	Active leakage at G6- G7 grout keys at end 3m of both abutments under center median		
Drains Clogged (Y/N)		No					
Curbs/Median			6	7	Parapets and center median		
(Curb Type :)							
Scaling (Percent Area)		1					
Bridge Rail			X	X			
(Type :)							
Bridge Rail Posts			X	X			
(Type :)							
Bridge Rail/Posts Coating			X	X			
(Type :)							
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			5	5	Typical narrow chamfer cracks and underside deck cracks and bottom of logs Minor corrosion stains- Sp 2 - G6 from shallow cover		
Cracking (Y/N)		Yes					
Spalling (Percent Area)		1					
(Number Of Girders : 22)							
Diaphragms/Cross Frame			6	6	Several end diaphragms cracked		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 35.1-35.1, A-Ident Number:)				
Bearings		6	6	Exp at pier.
Temperature (deg. C)	-5			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL;REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	5% corrosion stains at weep drains. and @ Ends above abuts Rated 5 with presence of new concrete overlay. Previous stains at G1 both spans.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		7	6	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
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		X	X	
Paint/Coating		7	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	In curve
Traffic Safety Features		6	6	
Type	GUARDRAIL			
Slope Protection (Type : CONCRETE; CONCRETE)		7	7	
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 1 post at North shoulder hwy 1.					
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	2012	Install 5.3m V.C. sign on bridge.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	62.1/62.1	Est. Repl. Yr	2028	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	09-Nov-2013		Previous Inspection Date	17-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							