

Bridge Inspection											
Bridge File Number	08984 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1981/1981				Lot No.	2					
Bridge or Town Name	GROUARD				Inspector Name	Brian Pientsch					
Located Over	SALT CREEK, 8.11.80.54.1, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	750:02 C1 27.265				Assistant Name	Lisbeth Medina					
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	02-Dec-2010					
Legal Land Location	SE SEC 28 TWP 76 RGE 14 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-116:06:10, 55:36:28				Data Entry Date	03-Jan-2011					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer					
Contract Main. Area	CMA06				Review Date	20-Dec-2010					
Clear Roadway/Skew	11.2 /				Dept. Reviewer Name	David Morrison					
AADT/Year	560 / 2009 (A)				Dept. Review Date	24-Feb-2011					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	3										
Allowable Load (t):	Single	CS1 41 GIRDER			Semi	CS2 61 GIRDER			Train	CS3 86 GIRDER	---> On Critical Spans --->Critical Member
Design Loading:	CS750									---> Primary Span	

Posting Information									
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									
Hazard Marker At Bridge (Y/N)			Yes						
Remarks			Gage station located 10m West of bridge opening.						
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	Attached along West curb.				Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curve to S. Sight distance 500m Hill to south No passing in both directions.				
Vertical Alignment			7	7					
Roadway Width (m)			8.700						
Approach Bump			6	6					
Guardrail (Y/N)			Yes						
Guardrail			4	5					
Length (m)			15.300						
Current Standard (Y/N)			No						
Termination Type			TURN DOWN ENDS						
Drainage			8	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SMO, 3 Spans, Lengths(m): 11-11-11, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now					
Wearing Surface			8	8	
(Material Type : CONCRETE)					
(Thickness(mm) : 125)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			N	7	
Bump (Y/N)		No			
Deck Drainage			8	N	Covered with snow.
Drains Clogged (Y/N)					
Curbs/Median			6	N	Covered with snow.
(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			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Girders			4	4	Viewed middle span from shore. Staining between girders from bolted joints. S3,G2 has spalls with corrosion stains and 2mm wide crackx400mm long. S3G1,S3G10,S1G1 and S1G10 have spalls..
Last Complete Inspection Date		02-Dec-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 30)					
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						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Bearing Seats/Caps/Corbels				7	6	
(Type : CONCRETE)						
(Depth(mm) : 700)						
(Width(mm) : 500)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		1.00				
Wingwalls				6	6	Narrow cracking & spalling on concrete wingwalls
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	14	0	0	0		
Now	14	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				7	5	Fill settling under both caps.
Scour/Erosion				7	5	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Bearing Seats/Caps/Corbels				4	4	
(Type : CONCRETE)						
(Depth(mm) : 600)						
(Width(mm) : 500)						
Wide cracking on E. side of both pier caps. Crack on bottom on cap extending up into face approx. 100mm with efflorescence.						

Substructure						
Bridge Component				Last	Now	Explanation of Condition
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Pier Shaft/Piles				7	7	
Greatest Height (m)		5.00				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				5	5	Minor superficial rust.
(Colour Description : GREEN)						
(Colour Code : 14090)						
Pier Stability				7	6	
Scour				7	4	Erosion 1mdeepx8m long and sloughing banks at both toe of slope.
Debris (Y/N)		Yes				Drift piled on east side.(Photo)
Substructure General Rating				4	4	
Structure Usage						
				Last	Now	Explanation of Condition
Channel						
(U/S Direction : E)						
(D/S Direction : W)						
Alignment				7	7	
Bank Stability				7	7	
HWM (m below Top of Curb)						HWM not visible.
Drift (Y/N)						
Slope Protection				7	4	Erosion and sloughing banks at both toe of slope.
(Type :)						
Guidebank/Spurs				X	X	
Adequacy of Opening				7	7	
(Fish Compensation Measure 1 : NONE)						
(Fish Compensation Measure 2 : NONE)						
Channel General Rating				7	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2011						
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	69.4/65.6	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor pier cap cracking and girder cracking.		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	Brian Pientsch		Previous Assistant's Name	Tim Miskiman			
Next Inspection Date	02-Mar-2014		Previous Inspection Date	24-Jul-2007			
Inspection Cycle (Default) (months)	39						
Comment							