

Bridge Inspection										
Bridge File Number	77085 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1969/1969				Lot No.	2				
Bridge or Town Name	GRASSY LAKE				Inspector Name	Tom Carey				
Located Over	SMR - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS A				
Located On	877:06 C1 11.685				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	14-Mar-2012				
Legal Land Location	SW SEC 34 TWP 9 RGE 13 W4M				Data Entry By	Kelsey Roberts				
Longitude, Latitude	-111:41:53, 49:46:28				Data Entry Date	08-Apr-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts				
Contract Main. Area	CMA24				Review Date	25-Mar-2012				
Clear Roadway/Skew	8.2 / 30 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	280 / 2011 (A)				Dept. Review Date	17-Apr-2012				
Road Classification	RCU-208-110				Follow-Up By					
Detour Length (km)	5									
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 GIRDER	----> On Critical Spans ---->Critical Member			
Design Loading:	HS20						----> 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	Not Required								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	Cable on West girder (poor shape).				Gas					
Power	4 wires east & 4 wires 20m south				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Not thriebeam				
Vertical Alignment			8	8					
Roadway Width (m)	8.500								
Approach Bump			5	5					
Guardrail (Y/N)			Yes						
Guardrail			7	7					
Length (m)			8.500						
Current Standard (Y/N)			No						
Termination Type			ROUNDED						
Drainage			6	6					
Approach Road General Rating			8	8					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 10.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	6	4 cracks between girders. Possible minor connector problem
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Double Layer
(Type : GALVANIZED STEEL FLEX BEAM)					
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					
Now	0	0	0	0	
Girders			6	5	Ends of girders at South abutment have medium to narrow cracks. 3 girders with longitudinal wide cracks in 1 leg only. Worst is in AZ with sound concrete and no defects in other web.
Last Complete Inspection Date		14-Mar-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 10)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			6	5	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1500)					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Bearing Seats/Caps/Corbels				6	6
(Type : TREATED TIMBER)					
(Depth(mm) : 300)					
(Width(mm) : 300)					
Backwalls/Breastwalls				6	6
Greatest Height (m)		2.00			
Wingwalls				6	6
(Total Number of Bearing Piles : 7:7)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Piles				4	4
Paint/Coating				X	X
Abutment Stability				7	7
Scour/Erosion				6	7
Piers/Bents					
(Type :)					
(Total Number of Caps/Corbels :)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Bearing Seats/Caps/Corbels				X	X
(Type :)					
(Depth(mm) :)					
(Width(mm) :)					
(Total Number of Bearing Piles :)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Pier Shaft/Piles				X	X
Greatest Height (m)					
Bracing/Struts/Sheathing				X	X
Nose Plate				X	X
Paint/Coating				X	X
(Colour Description :)					
(Colour Code :)					
Pier Stability				X	X

Piles 2,3 & 7 at North have splits up to 30mm wide.

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
Channel				
(U/S Direction : W)				4 old piles 600mm high under bridge
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		N	7	snow covered
HWM (m below Top of Curb)	1.3			(feb.16/09)
Drift (Y/N)	No			
Slope Protection		N	7	Some class 1m under bridge and at channel at banks.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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							
INSTALL STRUTS							
OTHER ACTION	2013	Band 3 piles at North abut.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/50.0	Sufficiency Rating (Last/Now) (%)	69.2/66.6	Est. Repl. Yr	2022	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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	14-Jun-2015		Previous Inspection Date	16-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							