

Bridge Inspection									
Bridge File Number	80403 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1984/1984				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 1.712				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	14-Mar-2012			
Legal Land Location	SW SEC 34 TWP 8 RGE 13 W4M				Data Entry By	Kelsey Roberts			
Longitude, Latitude	-111:41:53, 49:41:06				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	10 / -30 deg. (LHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	280 / 2011 (A)				Dept. Review Date	17-Apr-2012			
Road Classification	RCU-209-110				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:	MS230						----> 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	West ditch.				Gas	Crosses 60m South.			
Power	3 lines 13m East of c/l and 3 crossing road 20m North.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Farm entrance at SW corner.				
Vertical Alignment			8	8					
Roadway Width (m)	9.200								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	8.200								
Current Standard (Y/N)	No								
Termination Type	ROUNDED OUT.								
Drainage			8	4	Erosion at NW and SW corners allows drainage in to curb girder void.				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 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					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Cracked over abuts. and piers
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	A.C.P covered
Bump (Y/N)		No			
Deck Drainage			6	5	Minor leakage between girders No drains
Drains Clogged (Y/N)		No			
Curbs/Median			4	3	Spall East over South bent-minor. Hairline cracks by most rail posts. Large spall with exposed rebar East side over the second pier - photo.
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			8	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(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	Mid span 5th girder from East spall East corner over South bent cap. Diagonal crack at bottom of G9S3 at P1- curb girder
Last Complete Inspection Date		14-Mar-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		4			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 27)					
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) : 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					
Now	0	0	0	0	
Bearing Seats/Caps/Corbels				8	8
(Type : CONCRETE)					
(Depth(mm) : 800)					
(Width(mm) : 360)					
Backwalls/Breastwalls				X	X
Greatest Height (m)		0.70			
Wingwalls				7	7
(Total Number of Bearing Piles : 0:0)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	12				
Now	12	0	0	0	
Piles				N	N
Paint/Coating				6	6
Abutment Stability				6	7
Scour/Erosion				7	7
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	0	0	0	0	
Bearing Seats/Caps/Corbels				6	5
(Type : CONCRETE)					
(Depth(mm) : 600)					
(Width(mm) : 600)					
(Total Number of Bearing Piles : 6:6)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Pier Shaft/Piles				7	7
Greatest Height (m)		4.10			
Bracing/Struts/Sheathing				X	X
Nose Plate				X	X
Paint/Coating				4	4
(Colour Description : YELLOW)					
(Colour Code : 13538)					
				Minor spall at North cap at southside at East end. Stained from leakage between girders.	
				Some peeling of paint / rust lower piles.	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		6	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Concrete turnout 20m West going South.
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.6			(Feb. 16/09)
Drift (Y/N)	No			
Slope Protection		8	8	Class 1m
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	8	

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	2013	Fill in erosion at SW and NW corners					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Patch curb spall at East S2					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	69.3/67.4	Est. Repl. Yr	2032	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							