

Bridge Inspection										
Bridge File Number	74729 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1971/1971				Lot No.	1				
Bridge or Town Name	GRIMSHAW				Inspector Name	Brian Pientsch				
Located Over	MCALLISTER CREEK, 8.10.61, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	684:02 C1 3.198				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	27-Nov-2012				
Legal Land Location	SW SEC 32 TWP 82 RGE 23 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-117:34:38, 56:09:02				Data Entry Date	08-Jan-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA04				Review Date	08-Jan-2013				
Clear Roadway/Skew	9.1 / -30 deg. (LHF)				Dept. Reviewer Name	David Morrison				
AADT/Year	270 / 2011 (A)				Dept. Review Date	18-Mar-2013				
Road Classification	RCU-208-110				Follow-Up By					
Detour Length (km)	3									
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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	Bump sign, 45km/hr , Speed Warning Signs									
Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			7	7	Curves to N & S.					
Vertical Alignment			8	8	Field approach SW & NW.					
Roadway Width (m)	8.000				40mm bumps at both approaches.					
Approach Bump			4	3						
Guardrail (Y/N)	Yes									
Guardrail			6	6						
Length (m)	11.400									
Current Standard (Y/N)	Yes									
Termination Type	TURNED DOWN ENDS									
Drainage			6	6						
Approach Road General Rating			7	7						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : HC, 1 Spans, Lengths(m): 8.5, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Partially snow & ice covered.	
Last						
Now	40.0			1.0		
Wearing Surface				5	3	Wide cracking along girder joints. Partially removed
(Material Type : ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		Yes				
Deck Top				N	N	
Deck Rideability				5	3	Bridge wearing surface 40mm lower than road.
Deck Joints				N	N	Covered by ACP.
Bump (Y/N)		Yes				
Deck Drainage				7	7	
Drains Clogged (Y/N)		No				
Curbs/Median				5	N	Grader scrapes. Light scaling on tops of curbs.-12-Apr-2011 Snow covered
(Curb Type : Standard)						
Scaling (Percent Area)		20				
Bridge Rail				5	5	
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts				6	6	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating				6	6	
(Type : GALVANIZED)						
Sidewalk				X	X	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	11	0	0	0		
Now	0	0	3	3		
Girders				N	2	G1,2,3,4,5,6 spalls both legs in anchorage zone. Spalls & corrosion stains around deck drains. photo G3,4,7 unsound concrete above rebar in AZ. All girders have spalls and wide cracking in AZ on at least 1 leg. G7,8,9,10,11 spalls in AZ, 1 leg.
Last Complete Inspection Date		27-Nov-2012				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		30				
Lift or Connector Pocket Grouted (Y/N)		No				
(Number Of Girders : 11)						Lift hook pockets on curbs are not grouted.-12-Apr-2012 Snow covered.
Span Alignment Problems						
Vertical (Y/N)		No			Bridge has twisted 300m out of alignment due to skew. photo	
Horizontal (Y/N)		Yes				
Superstructure General Rating				2	2	GR carried forward.

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)				Bridge is twisting in skew. Caps tipping back at both abutments, 10 deg. SW corners.		
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)				Bridge is twisting in skew. Caps tipping back at both abutments, 10 deg. SW corners.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	6	0	0	0		
Now						
Bearing Seats/Caps/Corbels			N	8		
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls			3	4	Backwall separation on S. side 35mm. No fill coming through.-08-Oct-2009 Both backwalls pushing out, evident from W side.	
Greatest Height (m)		3.00				
Wingwalls			4	4	50mm gap NE corner.	
(Total Number of Bearing Piles : 7:7)				Couldn't access under bridge due to water levels.		
Piles Detail Ratings				Grouted capitals installed		
	N (count)	1 (count)	2 (count)	3 (count)		
Last	14	0	0	0		
Now						
Piles			N	5		
Paint/Coating			X	X		
Abutment Stability			3	4	Relating in 10 deg. twisting in skew.	
Scour/Erosion			N	5		
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			6	6	Steel pipe struts. Coating is mostly flaked off and steel is rusting.	
Nose Plate			X	X		
Paint/Coating			X	X		
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		3	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		N	5	
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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	Replacement or Replace girders.		2013						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	27.8/38.9	Sufficiency Rating (Last/Now) (%)	58.9/62.6	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Monitor abutment movement. Monitor girders -08-Oct-2009 Low Rating Advisory sent to David Morrison 27-Nov-2012. Replace structure with 2-3050mm SPCSP culverts as per 2011 Assessment Report.		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	Lisbeth Medina							
Next Inspection Date	27-Feb-2014	Previous Inspection Date	12-Apr-2011							
Inspection Cycle (Modified) (months)	15									
Comment										

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	Replacement or Replace girders.				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	27.8/38.9	Sufficiency Rating (Last/Now) (%)	58.9/62.6	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Monitor abutment movement. Monitor girders -08-Oct-2009 Low Rating Advisory sent to David Morrison 27-Nov-2012. Replace structure with 2-3050mm SPCSP culverts as per 2011 Assessment Report.	Department Comments
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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	Lisbeth Medina		
Next Inspection Date	27-Feb-2014	Previous Inspection Date	12-Apr-2011		
Inspection Cycle (Modified) (months)	15				

Comment	
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