

Bridge Inspection							
Bridge File Number	74728 -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 1.792			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	27-Nov-2012		
Legal Land Location	SE SEC 5 TWP 83 RGE 23 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-117:35:07, 56:09:36			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. (RHF)			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 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Remarks								
Hazard Marker At Bridge (Y/N)		Yes						
Remarks								
Other Sign Types		Right curve sign to west, EBL.						

Utilities (Located at)			
Utility Attachments			
Telephone	15m south.		Gas
Power	2 wires 20m north.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Range road intersection 200m East. Approaches both sides on north side, East side on South side. Curves South 300m East.
Vertical Alignment		8	8	
Roadway Width (m)	8.500			Rail has been bumped at SE, spacer blocks turned - photo.  Type V NW, NE & SE corners.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		5	5	
Length (m)	15.200			
Current Standard (Y/N)	Yes			
Termination Type	Turn Down			
Drainage		4	4	4 long x 1.5 wide x 1.0m deep scour hole at end of CSP under NE approach.
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>				10	
<b>Now</b>	50.0	0.0	0.0	10.0	
Wearing Surface			3	3	ACP does not extend to curb creating a wheel trap - photo. Wide cracking along girder joints and at abutments & pier. 1000 x 600mm pothole WBL. 350 x 450mm pothole EBL. About 10 other smaller potholes.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			3	N	Concrete has turned to dust in potholes. Rebar exposed in several locations. Edges of girders rounded.28-Jul-2009 Ice covered.
Deck Rideability			4	3	Uneven waering surface.
Deck Joints			4	N	Several buffer angles visible under potholes. Loss of concrete around angles and angles are rusting - photo-28-Jul-2009 Ice covered.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Lift pockets not grouted. Span curb has heavy scaling. About 20mm of concrete is missing at 3 post locations on South side.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		30			
Bridge Rail			5	5	1 rail bent 50mm North side.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			5	5	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			5	5	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>			6	18	
<b>Now</b>	0	0	6	18	
Girders			2	2	SP1 G2, SP2 G3, 4, 5 & 8, SP3 G5 have spalls in AZ on 2 legs which extend above the rebar. Most girders have wc or spalls in the AZ.
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 : <b>33</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>2</b>	<b>2</b>	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(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)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				6	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				4	4	300mm fill exposed under East backwall - photo.
Greatest Height (m)		2.00				
Wingwalls				7	7	
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Piles				5	5	Pile 2 at West abutment is banded.
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				4	4	Bellied out 1m deep under bridge.
<b>Piers/Bents</b>						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>				3		
<b>Now</b>	0	0	0	3		
Bearing Seats/Caps/Corbels				3	3	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>				2		
<b>Now</b>	0	0	0	2		
Pier Shaft/Piles				3	3	
Greatest Height (m)		3.10				
Bracing/Struts/Sheathing				4	4	Bracing on east pier cracked & piece broken off. Not affecting bolt holes.
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		4	4	Bellied out 1m under bridge.
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>3</b>	<b>3</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				25 long x 5 wide x 2m deep scour hole in channel bottom 40m D/S.
(D/S Direction : <b>S</b> )				
Alignment		5	5	
Bank Stability		6	6	
HWM (m below Top of Curb)				No HWM visible
Drift (Y/N)	No			
Slope Protection		4	4	Gabion along East headslope. Bellied out under bridge.
(Type : <b>NATURAL; GABION</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>5</b>	

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	Currently tendered for replacement.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>27.8/27.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>54.3/55.6</b>	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Low Rating Advisory sent to David Morrison.		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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	27-Feb-2016		Previous Inspection Date	28-Jul-2009			
Inspection Cycle (Default) (months)	39						
Comment							