

Bridge Inspection							
Bridge File Number	77015 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1969/1969			Lot No.	2		
Bridge or Town Name	ENTRANCE			Inspector Name	Todd Warshawski		
Located Over	WINTER CREEK, 8.11.118.3.4.1, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	40:30 C1 23.928			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	30-Oct-2012		
Legal Land Location	SW SEC 19 TWP 52 RGE 26 W5M			Data Entry By	Lisa Fairhurst		
Longitude, Latitude	-117:49:33, 53:29:59			Data Entry Date	20-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA13			Review Date	12-Nov-2012		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	2,040 / 2011 (A)			Dept. Review Date	22-Nov-2012		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	420						
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	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	250mm too high.							
Other Sign Types	Information.							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	West side/conduit; East r/w.		Gas
Power	1 wire East r/w.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Private intersection 100m North.
Vertical Alignment		7	7	No passing on bridge.
Roadway Width (m)	8.400			Frost heave @ both ends causing bump @ ends. ACP uneven & cracked.(photo)
Approach Bump		4	4	
Guardrail (Y/N)	Yes			Insufficient posts and insufficient length. Not attached to bridge. Not thrie beam.
Guardrail		5	5	
Length (m)	30.400			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		5	N	Snow covered. No issued apparent.
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 1 Spans, Lengths(m): 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>	0	0	0	0	
<b>Now</b>	75.0	0.0	0.0	0.0	
Wearing Surface			7	6	
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N Paved over.	
Deck Rideability			7	6	
Deck Joints			N	N Paved over.	
Bump (Y/N)		No			
Deck Drainage			5	4 Snow/ice limits drainage	
Drains Clogged (Y/N)		No			
Curbs/Median			6	N (Minor chips on exterior east curb. Abrasion wear on curb faces.-07-Feb-2009) Snow covered.	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			4	4 Single layer. -W.beam Incorrect lap @ West rail - photo.	
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			7	N Posts snow covered.	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	2	
<b>Now</b>	0	0	0	0	
Girders			3	4 G2 punchout less than 150mm - partially patched G5 spalls outside AZ, wide cracks in AZ Wide cracks in 8 of 12 girders. Concrete is sound	
Last Complete Inspection Date		30-Oct-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>12</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>3</b>	<b>4</b>	

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
<b>Abutments</b>							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 1800)							
(Total Number of Caps/Corbels : 3:3)				2 - 350 x 300 on 300 x 300 subcap. Gaps between caps and 5 piles.-photo			
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	1	0			
<b>Now</b>	0	0	0	0			
Bearing Seats/Caps/Corbels				2	4		
(Type : TREATED TIMBER)							
(Depth(mm) : 350)							
(Width(mm) : 300)							
Backwalls/Breastwalls			4	4			
Greatest Height (m)		2.30		N & S backwalls heaved on E. end due to heaving extension piles.- photo 300mm gap @ bottom North backwall.			
Wingwalls			3	3			
Tin tops damaged at SW. (Insufficient fill @ NE wingwall., separation from BW @ NE wingwall) Extension piles heaving on East side.-photo							
(Total Number of Bearing Piles : 7:7)				Gap @ P1N, P1S, P2S, P6S & P7S between piles and caps. Piles have narrow vertical splits, typical - photo. Added planks limit access			
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	4	0	0	0			
<b>Now</b>	6	0	0	0			
Piles				5	4		
Paint/Coating				X	X		
Abutment Stability				4	4		
Scour/Erosion			3	4			
(Void between NE wing and backwalls. Erosion hole @ NE corner.- photo Nov/10)							
<b>Piers/Bents</b>							
(Type : )							
(Total Number of Caps/Corbels : )							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	0			
<b>Now</b>							
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)			
<b>Last</b>	0	0	0	0			
<b>Now</b>							
Pier Shaft/Piles				X	X		
Greatest Height (m)							
Bracing/Struts/Sheathing			X	X			
Nose Plate			X	X			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			
<b>Substructure General Rating</b>		<b>2</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		7	8	
Bank Stability		4	8	
HWM (m below Top of Curb)				HWM not visible 0.3m ice to girder bottom noted in Nov/10
Drift (Y/N)	Yes			
Slope Protection		4	4	Loss of fill along backwalls
(Type : <b>NONE; NONE</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Connect guardrails to bridge ends & upgrade to double layer to meet standard. Fix lap in West 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 scour/erosion hole @ NE corner.- if not done					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Remove and lower North abutment backwall & NE wingwall and repair connection between wingwall and abut. 40m3 gran fill @ all wingwalls. Replace tin tops at SW.					
OTHER ACTION							
OTHER ACTION	2013	Reset hazard markers to 1.2m above road.					
OTHER ACTION	2013	Reset hazard markers to 1.2m above road..					
OTHER ACTION	2013	Patch approach ACP					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>27.8/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>44.0/51.5</b>	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder deterioration for next 2 inspections.		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	Wayne Cappellani		Previous Assistant's Name	Bryan Wai			

Next Inspection Date	30-Jul-2014	Previous Inspection Date	02-Oct-2012
Inspection Cycle (Default) (months)	21		
Comment			