

Bridge Inspection							
Bridge File Number	07107 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1960/1960			Lot No.	2		
Bridge or Town Name	HARDISTY			Inspector Name	Owen Salava		
Located Over	IRON CREEK, 5.16, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	881:02 C1 5.916			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	09-Aug-2011		
Legal Land Location	SE SEC 17 TWP 43 RGE 9 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-111:16:19, 52:42:07			Data Entry Date	13-Sep-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA16			Review Date	15-Aug-2011		
Clear Roadway/Skew	9.1 / 0 deg.			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	1,020 / 2010 (A)			Dept. Review Date	15-Sep-2011		
Road Classification	RCU-210-110			Follow-Up By			
Detour Length (km)	5						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 66 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	All mounted on 1st guardrail post & too low. 800mm above wearing surface.							
Other Sign Types								

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	West R/W.	Gas	
Power	East R/W 1 wire O/H	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm accesses approx 50 SE & SW. Hill to the S with adequate sight distance.
Vertical Alignment		7	7	
Roadway Width (m)	10.000			Insufficient posts; double flexbeam. Not thriebeam.
Approach Bump		5	6	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	35.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN END			
Drainage		7	7	
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			6	6	Two narrow longit cracks.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	N	(Deck joints damaged @ N. abut. 06Jul2007). ACP covered.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Longit crack in span 2 E curb fascia.Some vertical cracks. Local map cracking + scaling.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			5	5	Single layer, splice between posts (typ); ot to std. Missing one nut on each of 2 posts at back anchor bolt, E curb at P2 (photo).
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	4	
(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	0	0	0	0	
Now	0	0	0	0	
Girders			4	4	4 crk wide in both legs AZ, 5 wide crk in one AZ leg. Soundness not confirmed.
Last Complete Inspection Date		09-Aug-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 33)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	4	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 750)					
(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			7	7	
(Type : STEEL)					
(Depth(mm) : 350)					
(Width(mm) : 375)					
Backwalls/Breastwalls			7	7	
Greatest Height (m)		1.50			
Wingwalls			7	7	
(Total Number of Bearing Piles : 8:8)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles			6	6	
Paint/Coating			X	4	
Superficial mill flaking rust on cap - not painted.					
Abutment Stability			7	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			7	7	
(Type : STEEL)					
(Depth(mm) : 350)					
(Width(mm) : 375)					
(Total Number of Bearing Piles : 8:8)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Pier Shaft/Piles			6	6	
Greatest Height (m)		3.20			
Bracing/Struts/Sheathing			6	6	
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		6	6	
Debris (Y/N)	Yes			Minor drift accummulation at S pier.
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Curves u/s & d/s.
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)	0.4			(0.35 HWM on side of girder. 010108).
Drift (Y/N)	Yes			
Slope Protection		7	7	CL1, 1m rock both hslps as well.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	5	Based on noted HWM.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 2 anchor bolts nuts with washer.					
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	2012	Re-install hazard markers to meet std.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	63.2/61.8	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action required at this time for cracked girder legs.		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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	09-Nov-2014		Previous Inspection Date	06-Jul-2007			
Inspection Cycle (Default) (months)	39						
Comment							