

Bridge Inspection									
Bridge File Number	00847 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1995/1995				Lot No.	2			
Bridge or Town Name	THREE HILLS				Inspector Name	Dave Lam			
Located Over	THREEHILLS CREEK, 3.50.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	583:02 C1 17.907				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	15-Jul-2011			
Legal Land Location	SW SEC 3 TWP 32 RGE 24 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:20:05, 51:42:26				Data Entry Date	15-Aug-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA20				Review Date	27-Jul-2011			
Clear Roadway/Skew	10 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	2,520 / 2010 (A)				Dept. Review Date	29-Aug-2011			
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CS750						----> 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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	0.5m offline, too low, not to std. Knocked down at NW corner.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	In South ditch.				Gas				
Power	3 line 19 m North.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Crest curve 400m East, limited sight distance.				
Vertical Alignment			7	7					
Roadway Width (m)	11.500				W approach settled ~20mm (photo).				
Approach Bump			4	4	W approach in WBL has 1 small pothole W of approach slab (photo).				
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	15.200								
Current Standard (Y/N)	No				Approx 100mm below standard height (typical) & slopes down towards TD end-photo.				
Termination Type	TURNED DOWN								
Drainage			6	6					
Approach Road General Rating			6	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SCC, 3 Spans, Lengths(m): 12-12-12, 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			6	4	(Narrow cracks in grid pattern. Previously sealed. 17Mar2005). Local chipseal bare spots in EBL (photo).
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			8	8	Buffer angle.
Bump (Y/N)		No			
Deck Drainage			4	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			5	5	
(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			7	7	Cap seal peeling on fascia 5%. Staining in deck U/S around drains (typical).
Last Complete Inspection Date		15-Jul-2011			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			7	7	

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
Abutments								
(Extended Backwall Piles (Y/N) : N)				Typical SC substructure.				
(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) :)								
(Width(mm) :)								
Backwalls/Breastwalls							X	X
Greatest Height (m)		1.30						
Wingwalls				8	8			
(Total Number of Bearing Piles : 0:0)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last								
Now	100	0	0				0	
Piles							N	N
Paint/Coating							7	7
Abutment Stability							8	8
Scour/Erosion							8	8
Piers/Bents								
(Type : PIER-SOLID)				Neoprene strip bearing on concrete.				
(Total Number of Caps/Corbels : :)								
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) :)								
(Width(mm) :)								
(Total Number of Bearing Piles : 0:0)				Med. wide vert. cracking.				
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last								
Now	0	0	0				0	
Pier Shaft/Piles							6	6
Greatest Height (m)		4.80						
Bracing/Struts/Sheathing							X	X
Nose Plate							8	8
Paint/Coating							5	5
(Colour Description :)				Superficial rusting/pitting on noseplate. Blue - noseplate only.				
(Colour Code :)								
Pier Stability				8	8			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		N	4	Small scour at u/s end of P2 (photo), only at high water.
Debris (Y/N)	Yes			Old piles at toe of E hslp.
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Meandering.
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2011						
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2011						
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2011	Riprap small scour hole at u/s end of P2.					
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2011	Patch bare deck where chipseal is worn-off.					
OTHER ACTION	2011	Re-install hazard markers to meet standard.					
OTHER ACTION	2011	Patch W approach settlement & pothole.					
OTHER ACTION	2011	Upgrade guardrail to meet standard height @ next major rehab.					
OTHER ACTION							
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OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	74.2/63.0	Est. Repl. Yr	2044	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracking in piers.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	15-Oct-2014		Previous Inspection Date	17-Mar-2005			
Inspection Cycle (Default) (months)	39						

Comment	
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