

Bridge Inspection							
Bridge File Number	01137 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1958/1958			Lot No.	2		
Bridge or Town Name	THREE HILLS			Inspector Name	Dave Lam		
Located Over	GHOSTPINE CREEK, 3.50, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	583:02 C1 34.837			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	15-Jul-2011		
Legal Land Location	SW SEC 5 TWP 32 RGE 22 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:05:23, 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	7.9 /			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	410 / 2010 (A)			Dept. Review Date	29-Aug-2011		
Road Classification	RCU-208-110			Follow-Up By			
Detour Length (km)	6						
Allowable Load (t):	Single	CS1 37 GIRDER	Semi	CS2 49	Train	CS3 64 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)	In Advance (Y/N)	At Bridge (Y/N)		
Posted:	Lane	WB	At Junction (Y/N)	In Advance (Y/N)	At Bridge (Y/N)		
Remarks	Not required.						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks	Too low - 900 deck to bottom of sign.						
Other Sign Types							

Utilities (Located at)							
Utility Attachments							
Telephone	South r/w.			Gas			
Power	4 lines - N of c/l.			Municipal			
Others				Problem (Y/N)	No		
Remarks							

Approach Road							
		Last	Now	Explanation of Condition			
Horizontal Alignment		8	8	No bridge plaques. Crest curve 300m in both directions, limited sight distance.			
Vertical Alignment		6	6				
Roadway Width (m)	8.000			NE & SW - 36.1m NW & SE - 28.5m With thrie beam transition.			
Approach Bump		8	8				
Guardrail (Y/N)	Yes						
Guardrail		9	9				
Length (m)	21.100						
Current Standard (Y/N)	Yes						
Termination Type	TURNED DOWN ENDS						
Drainage		7	4	Small erosion at NW guardrail post beside concrete drain (photo).			
Approach Road General Rating		6	6				

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PO, 2 Spans, Lengths(m): 19.8-19.8, 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			N	9	New concrete deck in 2002. Chipseal installed in 2010; stops in front of bridgerail posts, not covered - typical both sides.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)	No					
Deck Top			N	N		
Deck Rideability			9	9		
Deck Joints			N	9	Pier A1 & A2	
Temperature (deg. C)		22				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type : ASPHALTIC FIBRE BOARD)						
Gap Size (mm)		Gap Location				
53		Pier				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			X	X		
(Curb Type : Standard)						
Scaling (Percent Area)						
Bridge Rail			9	9	Thrie beam.	
(Type : GALVANIZED STEEL THRIE BEAM)						
Bridge Rail Posts		4	4	1% of A/Bs have insufficient thread in bottom nut-photos. H - post.		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		9	9	Dirty		
(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		
Cracking (Y/N)		No				
Spalling (Percent Area)		0				
(Number Of Girders : 8)						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 2 Spans, Lengths(m): 19.8-19.8, A-Ident Number:)					
Diaphragms/Cross Frame		6	6	Honeycombing in bottom of most diaphragms due to poor consolidation @ construction-photo.	
Bearings		6	6	Pier A1 & A2 Superficial rust.	
Temperature (deg. C)	22				
(Expansion Type : SLIDING PLATE)					
(Fixed Type : ROCKER BEARING)					
Coating Adequate (Y/N)	No				
Functioning (Y/N)	Yes				
Deck Underside		7	7	Longitudinal hairline cracks between girders.	
Stains (Percent Area)	1				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		6	6		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
Backwalls/Breastwalls		7	7		
Wingwalls		N	7		
Piles		N	N		
Paint/Coating		5	5	Sealed.	
Abutment Stability		7	7		
Scour/Erosion		6	6		
Piers/Bents					
(Type : PIER-SOLID)					
Bearing Seats/Caps		4	6	Top of pier S side/cracking - photo. Cap cracking appears to be caused by horiz. tension at bearings, patched.	
(Type : CONCRETE)					
(Total Number of Bearing Piles : 0)					
Pier Shaft/Piles		7	7		
Bracing/Struts/Sheathing		X	X		
Nose Plate		7	7		
Paint/Coating		5	5	Coating has worn-off.	
(Colour Description :)					
(Colour Code :)					
Pier Stability		7	7		
Scour		7	7		
Debris (Y/N)	No				
Substructure General Rating		4	6		

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Curve located 75 m S (400).
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		7	5	Both banks sloughing (photo).
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		No		
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	5	Toe of hslp being eroded, no problem at this time.
(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							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK	2011	Both outside edges not chipsealed.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING	2011						
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Re-install hazard markers as per std.					
OTHER ACTION	2011	Repair erosion around NW guardrail post.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/66.7	Sufficiency Rating (Last/Now) (%)	66.2/70.8	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor scaling/cracking of concrete pier tops.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	Chip coat in 2010. RS						
On 3-Year Program (Y/N)	Y						
Proposed Action	CSE report, debonded overlay along N gutter & cracking. CB to repair by sealing with gravity flow epoxy.RS						
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							