

Bridge Inspection							
Bridge File Number	00934 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1963/1963			Lot No.	1		
Bridge or Town Name	CROSSFIELD			Inspector Name	Garry Roberts		
Located Over	BEAVERDAM CREEK, 3.89.8.11, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	766:04 C1 0.050			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	26-Jul-2012		
Legal Land Location	SW SEC 26 TWP 28 RGE 3 W5M			Data Entry By	Lauren Korte		
Longitude, Latitude	-114:19:47, 51:25:01			Data Entry Date	02-Sep-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Tom Carey		
Contract Main. Area	CMA28			Review Date	07-Aug-2012		
Clear Roadway/Skew	10.1 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	450 / 2011 (A)			Dept. Review Date	06-Sep-2012		
Road Classification	RCU-210-110			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 35 GIRDER	Semi	CS2 57 GIRDER	Train	CS3 82 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)	In Advance (Y/N)	At Bridge (Y/N)		
Posted:	Lane	SB	At Junction (Y/N)	In Advance (Y/N)	At Bridge (Y/N)		
Remarks	Not required.						

Hazard Marker At Bridge (Y/N)	Yes
Remarks	
Other Sign Types	

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	West ditch.	Gas	East ROW.
Power	East ROW.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Intersection 50m South.
Vertical Alignment		6	6	Hill to North.
Roadway Width (m)	10.100			
Approach Bump		7	5	Road has settled slightly @ South approach.
Guardrail (Y/N)	Yes			Wrong lap and missing bolt at NE T.D end.
Guardrail		4	4	3 broken posts @ SE.
Length (m)	11.800			
Current Standard (Y/N)	No			Not thriebeam.
Termination Type	TURNDOWN			
Drainage		7	5	Minor erosion starting @ SE corner.
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 11.6, 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			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			7	7	
Deck Rideability			7	7	
Deck Joints			4	4	Buffer Angles. Missing 2 at South- 1 at North. Not causing any problems.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Minor spalls @ SE and NW corners.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	7	Double layer.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(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	9	
Now	0	0	6	3	
Girders			3	2	Narrow Shear cracks in AZ girders, South end. 3 girders with cracks and spalls in AZ. Medium transverse between lift pockets. G3, G4, G5, G8, G9, G11 all with spalls in AZ extending above top half of rebar.
Last Complete Inspection Date		26-Jul-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		35			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 12)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	2	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : N)					
(Extended Backwall Piles Spacing(mm) :)					
(Total Number of Caps/Corbels : 6:7)					
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				5	5
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 305)					
Backwalls/Breastwalls			7	4	Driven sheathing. Backwall at A1 bulging inwards- photo.
Greatest Height (m)		2.90			
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	4
Paint/Coating			4	4	Heavy corrosion at steel risers.
Abutment Stability			6	6	
Scour/Erosion			6	5	
Piers/Bents					
(Type :)					
(Total Number of Caps/Corbels :)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
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)	
Last					
Now					
Pier Shaft/Piles				X	X
Greatest Height (m)					
Bracing/Struts/Sheathing			X	X	
Nose Plate			X	X	
Paint/Coating			X	X	
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				NO visible HWM.
Drift (Y/N)	No			
Slope Protection		5	5	Sparce rock.
(Type : NATURAL; NATURAL)				
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							
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	Reduce allowable loading 10T?					
OTHER ACTION	2014	Replace bridge.					
OTHER ACTION	2012	Reband P6 @ A2.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/33.3	Sufficiency Rating (Last/Now) (%)	69.8/65.1	Est. Repl. Yr	2014	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	Schedule for replacement within 2 years. Inspect annually until replaced or repaired. 2 Notifications sent for 2 rating of girders sent to at Tim Davies July 27/12.		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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	26-Oct-2015		Previous Inspection Date	20-Apr-2009			
Inspection Cycle (Default) (months)	39						
Comment							