

Bridge Inspection									
Bridge File Number	07751 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1975/1975				Lot No.	1			
Bridge or Town Name	MONITOR				Inspector Name	Owen Salava			
Located Over	MONITOR CREEK, 4.4.2.3, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	41:12 C1 66.959				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	19-Jul-2012			
Legal Land Location	NE SEC 4 TWP 35 RGE 4 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-110:30:52, 51:58:57				Data Entry Date	01-Aug-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA22				Review Date	31-Jul-2012			
Clear Roadway/Skew	13.7 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	570 / 2011 (A)				Dept. Review Date	02-Aug-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	8								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> 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									
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	3 wire East r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8	Land access near bridge.					
Vertical Alignment		8	8						
Roadway Width (m)		11.000							
Approach Bump		7	7						
Guardrail (Y/N)		Yes		Minor scrapes.					
Guardrail		5	5						
Length (m)		12.000		Insufficient posts and too short.					
Current Standard (Y/N)		No		Not thrie beam.					
Termination Type		Turned Down							
Drainage		N	5	Drains at corners onto headslope.					
Approach Road General Rating		8	8						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 6.1-10.7-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	30	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Chip seal stops 300mm from curb. Cracks @ abuts & piers, sealed.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	ACP covered.
Deck Rideability			7	7	
Deck Joints			N	N	Asphalt covered.
Bump (Y/N)		No			
Deck Drainage			N	6	No drains.
Drains Clogged (Y/N)					
Curbs/Median			3	3	Spall @ SW pier on ext. curb and NE pier. No fibre board between curbs.
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			4	4	Single layer. Missing 9 splice bolts.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			3	3	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	Spall behind post @ P1 @ W with rebar and anchor exposed.
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	Unable to view S2 due to high water; carry forward 3 rating.
Last	0	0	0	2	
Now	12	0	0	2	
Girders			3	3	23/36 girders have intermittent hairline cracks predominantly down center, 5 diag. (typical) at corners of piers. S2 G1&G12 narrow long. cracking with staining and small spalls. Diag. cracking longer than 500mm - photo. Center span. 13/48 girders ends are not drifted down, contained by neighbours. (s. lift pockets deteriorating - photo and 3 connectors cracked. 27/Sept/2008).
Last Complete Inspection Date		08-Mar-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 36)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
Abutments							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 1300)							
(Total Number of Caps/Corbels : 5:5)				Stacked & welded 300 x 300 H-sections with subcap.			
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			8			8	
(Type : STEEL)							
(Depth(mm) : 600)							
(Width(mm) : 300)							
Backwalls/Breastwalls			7	7			
Greatest Height (m)		1.70		A1 measured.			
Wingwalls			7	7			
(Total Number of Bearing Piles : 13:13)				Some checking.			
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			8			8	
Abutment Stability			8	8			
Scour/Erosion			4	3			
S hslp has mostly eroded, less than 0.3m backfill before it gets to backwalls.							
Piers/Bents							
(Type : PIER-COLUMN)							
(Total Number of Caps/Corbels : 5:5)							
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) : 600)							
(Width(mm) : 300)							
(Total Number of Bearing Piles : 13:13)				4 piles have steel stub repairs.			
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)			3 (count)	
Last	0	0	0			0	
Now	0	0	0			0	
Pier Shaft/Piles			5			5	
Greatest Height (m)		3.10				P1 measured.	
Bracing/Struts/Sheathing			6	6			
Nose Plate			X	X			
Paint/Coating			8	8			
Caps galvanized.							
(Colour Description :)							
(Colour Code :)							

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		6	6	
Scour		N	4	Localized scour at P1, W end.
Debris (Y/N)	No			Barbed wire fence across West opening.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Curves to the W.
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		N	4	SW hslp has scour partially due to natural bank transition.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection (Type : NONE; NONE)		4	3	Lack of protection both headslopes has resulted in S hslp scouring. Eroded under S1.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 9 splice bolts.					
SEAL CURBS	2012	0.2m3 OH-V 8 spalls.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2012	20m3 CL1, 15m3 pitrun at A1.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Remove cracked and deteriorated lift and connector grout and regROUT 0.1m3 NH, if not yet done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	56.3/55.5	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girders for now; no other action.		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 Saly		Previous Assistant's Name				
Next Inspection Date	19-Apr-2014		Previous Inspection Date	08-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							