

Bridge Inspection									
Bridge File Number	01569 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1991/1991				Lot No.	2			
Bridge or Town Name	RAVEN				Inspector Name	Owen Salava			
Located Over	NORTH RAVEN RIVER, 3.91.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	54:06 C1 24.431				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	05-Nov-2012			
Legal Land Location	NE SEC 16 TWP 36 RGE 4 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-114:30:08, 52:05:39				Data Entry Date	16-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA18				Review Date	14-Nov-2012			
Clear Roadway/Skew	11.9 / 15 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	1,620 / 2011 (A)				Dept. Review Date	19-Nov-2012			
Road Classification	RAU-211.8-110				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									

Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Required.								
Other Sign Types	Info Gwendale Hall; North Raven River; Curves to West.								

Utilities (Located at)									
Utility Attachments									
Telephone	South r/w.				Gas				
Power	1 wire crosses hwy 25m East, 5 wire & single wire 50m North of East.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Bridge in "S" curve to cross river. Approaches 100m East & West. Gradual sag curve. No passing. Limited sight distance.				
Vertical Alignment			7	7					
Roadway Width (m)	12.400				Minor damage at SW, functional. Transition rail torn at NW corner. Short of required 45m. Not thrie beam.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			6	4					
Length (m)	42.000				Short of required 45m. Not thrie beam.				
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			5	4	Erosion gully at NW from surface drainage.				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SCC, 3 Spans, Lengths(m): 10-12-10, 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			8	7	Chip coated.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			N	N	CIP buffer angle.
Bump (Y/N)		No			
Deck Drainage			8	8	Pigmented sealer cracked and peeled where joints leak.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Chip NW corner 0.2m 25mm deep. S exterior vert curb face has hairline flexural cracks @ 0.5m intervals.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(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	0	0	0	0	
Now	0	0	0	0	
Girders			6	6	Coating is peeling on 15% of girder sides.
Last Complete Inspection Date		05-Nov-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
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			6	6	

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Abutments									
(Extended Backwall Piles (Y/N) : N)				Not visible.					
(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	0	0	0				0		
Now	0	0	0				0		
Bearing Seats/Caps/Corbels			8				8		
(Type : CONCRETE)									
(Depth(mm) :)									
(Width(mm) :)									
Backwalls/Breastwalls			N				N		
Greatest Height (m)		1.30							
Wingwalls			7	7					
(Total Number of Bearing Piles : 0:0)									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	100	0	0				0		
Now	100	0	0				0		
Piles			N				N		
Paint/Coating			5				5	Pigmented sealer is cracking and peeling.	
Abutment Stability			8				8		
Scour/Erosion			8				6	Minor hslp subsidance at A2. Erosion gully at NW corner.	
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			8				8		
(Type : CONCRETE)									
(Depth(mm) : 750)									
(Width(mm) : 700)									
(Total Number of Bearing Piles : 6:6)									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	0	0	0				0		
Now	0	0	0				0		
Pier Shaft/Piles			8				8		
Greatest Height (m)		4.30							
Bracing/Struts/Sheathing			8				8		
Nose Plate			X				X		
Paint/Coating			5				5	1% of coating is peeling. P1 piles have been covered with yellow paint 3m2, accidental spill? Red color.	
(Colour Description :)									
(Colour Code :)									

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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	2013	Fill void at NW approach slab, NW hslp, 5m3 pitrun.								
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2013	Replace 2 section approach rail. Reset 3 timber postas at SW, 2 sections rail & replace 1 post at NW.								
OTHER ACTION	2013	Replace torn NW transition rail section.								
OTHER ACTION	2013	Reveiw guardrail warrants.								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	69.4/69.0	Est. Repl. Yr	2053	Maint. Req'd. (Y/N)	Yes	Estimated Total	0	
Special Comments for Next Inspection	Department Comments									
Maintenance Reviewed By	Date									
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	05-Aug-2014	Previous Inspection Date	11-Apr-2011							
Inspection Cycle (Default) (months)	21									
Comment										

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	2013	Fill void at NW approach slab, NW hslp, 5m3 pitrun.	Programmed	2013		
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2013	Replace 2 section approach rail. Reset 3 timber postas at SW, 2 sections rail & replace 1 post at NW.	Programmed	2013		
OTHER ACTION	2013	Replace torn NW transition rail section.	Programmed	2013		
OTHER ACTION	2013	Reveiw guardrail warrants.	Programmed	2013		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	69.4/69.0	Est. Repl. Yr	2053	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	AT to review extent of erosion under approach slab prior to issuing BMA. Void may need to be grouted.		
Maintenance Reviewed By	Andrew Smikles		Date	17-Dec-2012	Estimated Total	0
Proposed Long-Term Strategy						
On 3-Year Program (Y/N)						
Proposed Action						

Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	05-Aug-2014	Previous Inspection Date	11-Apr-2011
Inspection Cycle (Default) (months)	21		
Comment			