

Bridge Inspection										
Bridge File Number	71613 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1978/1978				Lot No.	1				
Bridge or Town Name	HANNA				Inspector Name	Owen Salava				
Located Over	BULLPOUND CREEK, 3.17, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	9:08 C1 42.129				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	02-Nov-2011				
Legal Land Location	SE SEC 18 TWP 31 RGE 15 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-112:06:46, 51:38:56				Data Entry Date	28-Nov-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA21				Review Date	14-Nov-2011				
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Chris Black				
AADT/Year	2,400 / 2010 (A)				Dept. Review Date	25-Jan-2012				
Road Classification	RAU-210-110				Follow-Up By					
Detour Length (km)	70									
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	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)	No								
Remarks	Not required.								
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	20.0m North.				Gas					
Power	3 lines OH North along fenceline.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8	Insufficient posts. Not thrie beam.					
Vertical Alignment		8	8						
Roadway Width (m)	11.000								
Approach Bump		7	7						
Guardrail (Y/N)	Yes								
Guardrail		7	7						
Length (m)	57.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage		5	5						
<b>Approach Road General Rating</b>		<b>8</b>	<b>8</b>						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : VS, 3 Spans, Lengths(m): 6.1-7.9-6.1, A-Ident Number: )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>						
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface				5	6	(Several longitudinal cracks reflecting through ACP. 11Mar2010).
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top				N	N	
Deck Rideability				7	7	
Deck Joints				N	N	Paved over. Transverse crack over all joints, not sealed. Buffer angles.
Bump (Y/N)		No				
Deck Drainage				4	4	Piers stained from leakage of joints. Headslope erosion from drainage.
Drains Clogged (Y/N)		No				
Curbs/Median				4	4	Hairline map cracking on tops. 0.2mm wide vertical cracks in face. Grout missing @ lift hook NE curb.
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail				3	3	Top rail S1-3 N and lower rail S3 North have stretched holes or cracks. Missing 1 rail splice bolt between S2 & S3 North. S3 N lower rail cracked through at post.
(Type : <b>GALVANIZED STEEL TUBE BEAM TYPE 1</b> )						
Bridge Rail Posts				7	7	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating				7	7	
(Type : <b>GALVANIZED</b> )						
Sidewalk				X	X	
<b>Girder Detail Ratings</b>						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>				1		
<b>Now</b>	0	0	0	1		
Girders				3	3	0.4mm wide longitudinal crack 200mm from bottom entire length of fascia all curb girders. Connectors rusting & stain under deck. Honeycomb in bottom S3G6 800mm void & rebar exposed & corroded. Coating 30% failed on curb exteriors. Hairline cracks in girder underside.
Last Complete Inspection Date		02-Nov-2011				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
Lift or Connector Pocket Grouted (Y/N)		No				
(Number Of Girders : <b>30</b> )						
<b>Span Alignment Problems</b>						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
<b>Superstructure General Rating</b>				<b>3</b>	<b>3</b>	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>N</b> )						
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : <b>1:1</b> )						
Abutments are stained.						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : )						
(Width(mm) : <b>500;600</b> )						
Backwalls/Breastwalls				N	N	Not visible behind girders.
Greatest Height (m)		1.00				
Wingwalls				7	7	
(Total Number of Bearing Piles : <b>0:0</b> )						
Unknown.						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	100					
<b>Now</b>	100	0	0	0		
Piles				N	N	
Paint/Coating				4	4	Peeling @ wingwalls & caps.
Abutment Stability				8	8	
Scour/Erosion				4	4	Erosion gully South side of East headslope. Gullies starting at SW & NW as well.
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
Cracking at the South end of both caps. Small delam East pier cap.						
(Total Number of Caps/Corbels : <b>1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : )						
(Width(mm) : )						
(Total Number of Bearing Piles : <b>7:7</b> )						
(Honeycomb inside steel pipe P1P1. 23/Mar/2007)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				6	6	
Greatest Height (m)		2.30				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				4	4	Coating on pier caps deteriorated. Paint peeling / missing below waterline on all piles. Green.
(Colour Description : )						
(Colour Code : )						
Pier Stability				8	8	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		5	5	
Debris (Y/N)	Yes			Minor drift, old piles.
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		4	4	Erosion channel @ SE headslope, holes @ SW & NW corners - photo. Asphalt on banks.
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>4</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 3 top rails and 2 bottom rail and 1 splice bolt.								
SEAL CURBS	2012	Grout lift pockets, 0.05m3 NH.								
PATCH DECK										
OVERLAY DECK										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS										
REPAIR ABUTMENT SCOUR/EROSION	2012	Road crush @ SE headslope and SW & NW corners. 5m3.								
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2012	Inject girder honeycomb with epoxy.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>53.6/49.2</b>	<b>Est. Repl. Yr</b>	<b>2030</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>			
Special Comments for Next Inspection	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	02-Aug-2013	Previous Inspection Date	11-Mar-2010							
Inspection Cycle (Default) (months)	21									
Comment										

**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 3 top rails and 2 bottom rail and 1 splice bolt.	Programmed	2012		
SEAL CURBS	2012	Grout lift pockets, 0.05m3 NH.	Programmed	2012		
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION	2012	Road crush @ SE headslope and SW & NW corners. 5m3.	Programmed	2012		
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2012	Inject girder honeycomb with epoxy.	Programmed	2012		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>53.6/49.2</b>	Est. Repl. Yr	2030	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Currently programmed in PMA for replacement in 2018. DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	29-Oct-2012	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	02-Aug-2013		Previous Inspection Date	11-Mar-2010		
Inspection Cycle (Default) (months)	21					

Comment	
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