

Bridge Inspection							
Bridge File Number	71336 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1969/1969			Lot No.	2		
Bridge or Town Name	LINARIA			Inspector Name	Todd Warshawski		
Located Over	SHOAL CREEK, 8.11.84.12, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	776:02 C1 16.885			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	27-May-2010		
Legal Land Location	SW SEC 31 TWP 61 RGE 1 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-114:09:07, 54:19:06			Data Entry Date	21-Jun-2010		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Arnold Assenheimer		
Contract Main. Area	CMA10			Review Date	03-Jun-2010		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	270 / 2009 (A)			Dept. Review Date	21-Jun-2010		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	6						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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)	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	Not required.						

Hazard Marker At Bridge (Y/N)	No						
Remarks							
Other Sign Types							

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power	2 wires East r/w.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Field access at NW, NE & SE.
Vertical Alignment		9	9	
Roadway Width (m)	8.200			Bump on North approach.
Approach Bump		7	5	
Guardrail (Y/N)	Yes			(Post spacing & length not to current std. Type VI termination, NW corner.
Guardrail		N	5	
Length (m)	11.400			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		7	4	Windrow buildup along approaches.
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number: )</b>					
<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>					
Wearing Surface			6	5	Longitudinal cracks along all girder lines.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			8	7	
Deck Joints			N	N	Paved over. Wide cracks ACP.
Bump (Y/N)	No				
Deck Drainage			7	7	
Drains Clogged (Y/N)	No				
Curbs/Median			N	4	Surface spalls/scallig on East curb. Lift pockets poorly grouted. Poor repair patch on Span 3, G1.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)	10				
Bridge Rail			4	4	Double layer. Splice not per standard dwg - photo. Missing 4 bolts / splice = 112 bolts total.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			8	7	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	6	
Girders			4	3	Concrete spalls in AZ on both legs with rebar 5% exposed. S1-G7,G8 S2-G6,G7 S3 G5-G7 Wide cracks along full lengths on most girders.
Last Complete Inspection Date	27-May-2010				
Cracking (Y/N)	Yes				
Spalling (Percent Area)	10				
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>33</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
<b>Superstructure General Rating</b>			<b>4</b>	<b>3</b>	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>Y</b> )						
(Extended Backwall Piles Spacing(mm) : <b>1600</b> )						
(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>						
Bearing Seats/Caps/Corbels				8	7	
(Type : <b>STEEL</b> )						
(Depth(mm) : <b>350</b> )						
(Width(mm) : <b>370</b> )						
Backwalls/Breastwalls				8	7	
Greatest Height (m)		1.20				
Wingwalls				5	5	NE wingwall charged. Broken planks on NW wingwall.
(Total Number of Bearing Piles : <b>7:7</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Piles				7	6	
Paint/Coating				4	5	
Abutment Stability				8	8	
Scour/Erosion				8	8	
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(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>						
Bearing Seats/Caps/Corbels				8	7	
(Type : <b>STEEL</b> )						
(Depth(mm) : <b>350</b> )						
(Width(mm) : <b>370</b> )						
(Total Number of Bearing Piles : <b>9:9</b> )				Wide checks (5-8mm) on several piles.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Recently cored.	
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				7	6	
Greatest Height (m)		4.30				
Bracing/Struts/Sheathing				5	5	
Nose Plate				X	X	
Paint/Coating				4	5	
(Colour Description : )						
(Colour Code : )						
Pier Stability				7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>E</b> )				Gentle bends U/S & D/S.
(D/S Direction : <b>W</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		8	7	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2010	Repair lapping and install missing splice bolts(120).					
SEAL CURBS	2010	Patch curbs and seal.					
PATCH DECK	2010	Seal cracks in ACP.					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2010	Remove window buildup.					
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	2010	Install hazard markers.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>72.8/68.2</b>	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks and spalling.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	27-Aug-2013		Previous Inspection Date	28-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							