

Bridge Inspection											
Bridge File Number	79324 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1982/1982					Lot No.	2				
Bridge or Town Name	HIGHVALE					Inspector Name	Kris Bosters				
Located Over	LOCAL ROAD					Inspector Class	BR CLS A				
Located On	627:02 C1 16.982					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	18-Oct-2012				
Legal Land Location	SW SEC 2 TWP 52 RGE 4 W5M					Data Entry By	Theresa Lacusta				
Longitude, Latitude	-114:29:15, 53:27:15					Data Entry Date	23-Oct-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA12					Review Date	22-Oct-2012				
Clear Roadway/Skew	12.1 / 20 deg. (RHF)					Dept. Reviewer Name	Brent Herrick				
AADT/Year	1,430 / 2011 (A)					Dept. Review Date	13-Nov-2012				
Road Classification	RAU-211.8-110					Follow-Up By					
Detour Length (km)	30										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS250										----> Primary Span

Posting Information													
Required Vert. Clearance Posting (m)													
Posted Vertical Clearance (Y/N)													Yes
Posted:	Lane	NB	On Bridge (m)	6.3	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	6.3	In Advance (Y/N)	No	
Remarks		Private road.											
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)		Yes											
Remarks		Mounted on 1st guardrail post.											
Other Sign Types		Information.											

Utilities (Located at)												
Utility Attachments												
Telephone					Gas							
Power					Municipal							
Others					Problem (Y/N) No							
Remarks												

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		7	6	Curve to west. Crest curve limiting sight distance. No passing.	
Vertical Alignment		7	7		
Roadway Width (m)		10.700		ACP cracked and ravelling at approaches.-photo	
Approach Bump		6	4	Approach slabs have wide map cracking.	
Guardrail (Y/N)		Yes			
Guardrail		7	7		
Length (m)		32.000			
Current Standard (Y/N)		No			
Termination Type		Turned Down			
Drainage		7	7		
<b>Approach Road General Rating</b>		<b>7</b>	<b>6</b>		

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : <b>FM, 1 Spans, Lengths(m): 35.2, A-Ident Number: )</b>							
<b>Special Features</b>							
Special Feature		7	7				
(Type : <b>EXT LATER POST TENS</b> )							
Special Feature			X				
(Type : )							
<b>Wearing Surface/Deck Top Detail Ratings</b>							
	N (%)	1 (%)	2 (%)	3 (%)			
<b>Last</b>							
<b>Now</b>							
Wearing Surface		4	4	Wide cracks between girders EB, seal has failed. - photo.			
(Material Type : <b>CONCRETE</b> )							
(Thickness(mm) : <b>50</b> )							
Lateral Connection Problem (Y/N)		Yes					
Deck Top		X	X				
Deck Rideability		8	8				
Deck Joints		7	7	EB - amoured gland WA, steel plate EA. WB amoured gland EA, steel plate WA. Gaps vary.			
Temperature (deg. C)		4					
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )							
(Fixed Type : <b>SLIDING PLATES</b> )							
Gap Size (mm)		Gap Location					
50		East abutment					
50		West abutment					
Deck Drainage		7	7				
Drains Clogged (Y/N)		No					
Curbs/Median		7	7				
(Curb Type : <b>Standard</b> )							
Scaling (Percent Area)		0					
Bridge Rail		8	8				
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )							
Bridge Rail Posts		8	8				
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )							
Bridge Rail/Posts Coating		8	8				
(Type : <b>GALVANIZED</b> )							
Sidewalk		X	X				
<b>Girder Detail Ratings</b>							
	N (count)	1 (count)	2 (count)	3 (count)	Vertical crack end of girder/E side.-photo		
<b>Last</b>							
<b>Now</b>	0	0	0	1			
Girders		4	3	5 new girders on North side. Typical chamber cracks, G2 West and East end has wide long crack on underside of one leg - photo. G1 wide cracking West end underside of 1 leg. G1 East end delam/cracking in one leg inside AZ, appears to be from low cover. G3 spalling on underside from lack of cover - photos. 4 box, 5 FL - S.			
Cracking (Y/N)		Yes					
Spalling (Percent Area)		1					
(Number Of Girders : <b>9</b> )							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FM, 1 Spans, Lengths(m): 35.2, A-Ident Number: )				
Diaphragms/Cross Frame		6	6	Wide horizontal crack E and G1. Narrow vertical cracks in at a few locaions.
Bearings		6	6	
Temperature (deg. C)	2			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
<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>				
Bearing Seats/Caps		6	6	Abutment seats chipped down for new grout pad for replacement girders from accident damage.
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : )				
Bearing Seats/Caps		X	X	
(Type : )				
(Total Number of Bearing Piles : )				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		5	5	Accident damage, NW corner panels torn off - photo.
Traffic Safety Features		3	4	Fill exposed/sloughing. Lighting good. Accident damage, NW corner panels torn off.-photo
Type	Retaining			
Slope Protection		4	4	Erosion gullies upto 300mm deep.
(Type : <b>NONE; NONE</b> )				
Bank Stability		3	4	Vertical face.
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>3</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK	2013	Seal longitudinal cracks between girders.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair binwalls.					
OTHER ACTION	2013	Patch & seal cracks in approach ACP.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>45.9/44.4</b>	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks.		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	Arnold Assenheimer		Previous Assistant's Name				
Next Inspection Date	18-Jan-2016		Previous Inspection Date	05-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							