

Bridge Inspection										
Bridge File Number	79440 -1 Bridge					Form Type	PSR			
Year Built/Year Supstr	1993/1993					Lot No.	2			
Bridge or Town Name	VERMILION					Inspector Name	Jason Saly			
Located Over	16:28 R1 34.916;16:28 L1 34.911					Inspector Class	BR CLS A			
Located On	41:18 R1 57.015;41:18 L1 57.015					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	18-Jul-2012			
Legal Land Location	SE SEC 30 TWP 50 RGE 6 W4M					Data Entry By	Marcia Chavez			
Longitude, Latitude	-110:51:36, 53:20:15					Data Entry Date	10-Aug-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien			
Contract Main. Area	CMA15					Review Date	28-Jul-2012			
Clear Roadway/Skew	19.6 / 4 deg. (RHF)					Dept. Reviewer Name	Andrew Smikles			
AADT/Year	1,630 / 2011 (A)					Dept. Review Date	13-Aug-2012			
Road Classification	RFD-412.4-120					Follow-Up By				
Detour Length (km)	3									
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 Vert. Clearance Posting (m)			UNDER: 16 L1 5.4m, 16 R1 5.4m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)	5.9	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.4	In Advance (Y/N)	Yes
Remarks		Roughly measured VC - EB was 6.2 and WB was 5.9.										

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)		Yes										
Remarks		NW & SE only.										
Other Sign Types		Information										

Utilities (Located at)										
Utility Attachments										
Telephone						Gas				
Power						Municipal				
Others	1 light pole on each curb.					Problem (Y/N)	No			
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Typical grade separation.
Vertical Alignment		6	6	
Roadway Width (m)		19.600		No thrie beam transition. Turn down at SE & NW; bulb at SW & NE.
Approach Bump		5	5	
Guardrail (Y/N)		Yes		
Guardrail		7	6	
Length (m)		45.000		
Current Standard (Y/N)		No		
Termination Type		TURNED DOWN		
Drainage		4	4	NE deck pipe allows salt water onto girder. NW concrete down drain broken.
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CBC, 2 Spans, Lengths(m): 36-36, 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			6	5	Cracks reflecting through chip seal coat.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	7	
Deck Joints			6	4	Water leaking through median cover plate at N abut jnt.
Temperature (deg. C)		23			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
67		N. abut			
54		S. abut			
Deck Drainage			6	4	See jnt comments.
Drains Clogged (Y/N)		No			
Curbs/Median			N	5	Curb height is 200m in spots along median. Typical vertical & transv. cracking at curbs and median with light scaling. Horiz. cracking along interior faces of the curbs.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			9	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			N	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			N	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	Typical DBT cracks. Numerous hailine cracks esp in curb girders in end blocks & transition zone, some are in bottom 1/4 & some continue into web. Girders are sagged approx 50mm.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 22)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CBC, 2 Spans, Lengths(m): 36-36, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	Vertical cracks on both exterior faces.
Bearings		7	7	Slight bulging between reinforcement mats. (Both abuts overexpanded 25mm both ends. 17Dec2010).
Temperature (deg. C)	23			
(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		7	7	
Stains (Percent Area)	0			
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				
Bearing Seats/Caps		8	6	Minor cracking in the N abut.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		8	7	
Piles		N	N	Buried.
Paint/Coating		7	7	
Abutment Stability		6	6	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	15% peeling of pigmented sealer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		8	8	
Type	GUARDRAIL			
Slope Protection		7	7	S slope is 40mm down & 15mm out. N slope is 50mm down & 40mm out.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

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							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Remove median cover plate at AZ; inspect & repair gland.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Seal abuts due to jnt leakage.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	66.1/65.2	Est. Repl. Yr	2044	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Continue regular curb sealing practices.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	18-Apr-2014		Previous Inspection Date	17-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							