

Bridge Inspection							
Bridge File Number	01219 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1968/1968			Lot No.	1		
Bridge or Town Name	VIMY			Inspector Name	Todd Warshawski		
Located Over	REDWATER RIVER, 6.63, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	2:36 C1 37.721			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	29-Mar-2013		
Legal Land Location	NW SEC 28 TWP 58 RGE 25 W4M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-113:40:11, 54:02:42			Data Entry Date	17-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA10			Review Date	03-Apr-2013		
Clear Roadway/Skew	13.7 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	5,180 / 2012 (A)			Dept. Review Date	23-Apr-2013		
Road Classification	RAU-213.4-120			Follow-Up By			
Detour Length (km)	22						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 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)		In Advance (Y/N)		At Bridge (Y/N)
Posted:	Lane	SB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)
Remarks	Not required.						
Hazard Marker At Bridge (Y/N)	No						
Remarks	Not required.						
Other Sign Types							

Utilities (Located at)				
Utility Attachments				
Telephone	East r/w.		Gas	X's Hwy 100m to North
Power			Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Field & residence entrance to the South.
Vertical Alignment		7	7	
Roadway Width (m)	12.900			Bumps at both ends.
Approach Bump		7	4	Hole in ACP at NE
Guardrail (Y/N)	Yes			Not attached to bridgerail, all 4 corners. Not thrie beam type. SE & NW = 30.4m; SW & NE = 22.8m.
Guardrail		5	5	
Length (m)	22.800			Transition rail posts are to short ~ NW & SW.-photo
Current Standard (Y/N)	No			Minor strike damage on SW, SE, still functional.
Termination Type	Turned Down			
Drainage		7	7	
<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): 10.1-10.1-10.1, 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			5	5	Chip seal coat with 15% wear and some insulated potholes worn off.
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			N	N	Covered by concrete overlay/chipseal.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			7	7	Double layer mINOR SPLIT ON 1 se SPACER BLOCK.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			5	5	
(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>	16	0	0	0	
<b>Now</b>				27	
Girders			N	3	Concrete spalls in AZ (bearing area), approx. 50% of girders. Large spalls with loss of rebar section on several girders. Wide longitudinal cracking on most girders. Narrow shear cracks at abutment ends of several girders. Medium flex cracks in AZ of several girders. Frict pin spalls on most girders at abutments.
Last Complete Inspection Date		29-Mar-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		10			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>48</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) : Y)						
(Extended Backwall Piles Spacing(mm) : 1400)						
(Total Number of Caps/Corbels : 2:2)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				5	5	
(Type : STEEL)						
(Depth(mm) : 355)						
(Width(mm) : 375)						
Backwalls/Breastwalls				4	4	1 plank loose, 1 plank missing @ S. abut -minor infiltration.-photo
Greatest Height (m)		1.50				
Wingwalls				4	4	Tin top damaged @ SE corner, NW,NE.
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Piles				5	5	
Paint/Coating				4	4	Scaling rust & loss of section - photo
Abutment Stability				5	5	
Scour/Erosion				4	4	Minor erosion gullies SE, NW & NE headslope.
<b>Piers/Bents</b>						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 2:2)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				4	4	Pitting rust. Crowned with subcap over centre 4 piles. Cap stiffeners not centered over piles in some locations.
(Type : STEEL)						
(Depth(mm) : 355)						
(Width(mm) : 375)						
(Total Number of Bearing Piles : 14:14)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				6	6	Planks missing near waterline, both piers - photo.
Greatest Height (m)		3.10				
Bracing/Struts/Sheathing				N	4	Planks missing near waterline, both piers.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		7	4	Lower plate loose at P2.
Paint/Coating		4	4	Rusting.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	7	
Scour		7	7	
Debris (Y/N)	Yes			Old piles under bridge, heaving due to frost.
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		4	4	Concrete bags pushed into a pile under S1 + S3, not effective.
(Type : <b>CONCRETE</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>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace post on NW & SW transition.					
SEAL CURBS							
PATCH DECK	2013	Patch approach ACP.					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2013	Trim old piles under bridge.					
INSTALL STRUTS							
OTHER ACTION	2013	Repair/lower pier sheathing.					
OTHER ACTION	2013	Replace 3 tin tops.					
OTHER ACTION	2013	Level 2 girder inspection.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>49.0/50.7</b>	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks nad South backwall. 1999 Assessment recommended replacement in 2004. Schedule for replacement. Complete Level 2 girder 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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	29-Dec-2014		Previous Inspection Date	28-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							