

Bridge Inspection									
Bridge File Number	77413 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1975/1975				Lot No.	2			
Bridge or Town Name	IMPERIAL MIL				Inspector Name	Wade Nanninga			
Located Over	PICHE RIVER, 8.11.55.9.6.2, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	881:20 C1 18.045				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Sep-2010			
Legal Land Location	SE SEC 35 TWP 69 RGE 12 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-111:42:44, 55:00:35				Data Entry Date	06-Oct-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA08				Review Date	20-Sep-2010			
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,290 / 2009 (A)				Dept. Review Date	14-Oct-2010			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	250								
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	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)	Yes								
Remarks	Not to standard, set on post in front of bridge, too low, o/s line. SW hazard marker leaning.								
Other Sign Types	Narrow bridge, Curve.								

Utilities (Located at)									
Utility Attachments									
Telephone	in East ditch.				Gas				
Power	1 line West r/w.				Municipal				
Others	Fibre optic East r/w.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Store entrance to SE. In bottom of slight sag, no passing both directions. Limited site distances.				
Vertical Alignment			6	6					
Roadway Width (m)	9.600								
Approach Bump			6	5					
Guardrail (Y/N)	Yes								
Guardrail			4	7					
Length (m)	60.400								
Current Standard (Y/N)	Yes								
Termination Type	Turned Down								
Drainage			6	4	Crack in ACP allowing water to leak behind backwall.				
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 9.1-9.1-9.1, 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>					
Wearing Surface			X	5	Scraped/damaged exposing girder tops. Girder lining visible.
(Material Type : <b>CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		No			
Deck Top			3	N	Abrasion damage to girder tops, several patches on girder tops. Surface abrading from gravel abrasion. 80 x 80mm hole in top of S1/G4. Some connection & lift pocket grout left low, exposing top of lift hook & top of steel connection pockets. S3G5 delam girder top exposing rebars - photo.-12-Jun-2007 S3G5 chipped edge
Deck Rideability			5	5	
Deck Joints			4	4	Missing some buffer angles on South abutment - photo.-12-Jun-2007 ACP cracks @ abut exposing some buffer angles.
Bump (Y/N)		Yes			
Deck Drainage			6	6	Drains to North. No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Abrasion damage from graders.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Single layer. AB nuts on SW post not fully engaged.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			7	4	
(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>					
Girders			3	4	Typical H/L to narrow longitudinal cracking on curb girders underside.  Hole on top of girder S2G4. Spalled girder top edges in S2G4, G5 & G6 - photo.-12-Jun-2007  S2G3 shallow cover exposing corroded rebar. Med long crack in S1G6
Last Complete Inspection Date		10-Sep-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>24</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>3</b>	<b>4</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> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				6	6	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>600</b> )						
(Width(mm) : <b>500</b> )						
Backwalls/Breastwalls				7	N	
Greatest Height (m)		1.00				
Wingwalls				6	6	
(Total Number of Bearing Piles : <b>0:0</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	1	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				4	4	Minor scour of South headslope, caused by drainage between girders.
<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				6	4	Shallow pitting on lower portion of pile.
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>600</b> )						
(Width(mm) : <b>500</b> )						
(Total Number of Bearing Piles : <b>6:6</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				6	6	
Greatest Height (m)		2.40				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	All pile coating gone, rusting. Both pier caps stained.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		N	N	Under water.
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</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		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 from leaking between girders.
(Type : <b>NATURAL; NATURAL</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>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK	2010	HPC concrete, composite to eliminate pier joints and leaking b/w girders.					
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							
INSTALL STRUTS							
OTHER ACTION	2010	Re-install hazard markers to std.					
OTHER ACTION	2010	Patch/seal cracks @ piers/abut.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>51.8/50.0</b>	Est. Repl. Yr	2043	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracking		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	10-Dec-2013		Previous Inspection Date	12-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							