

Bridge Inspection										
Bridge File Number	78633 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1973/1973				Lot No.	4				
Bridge or Town Name	DESMARAIS				Inspector Name	Arnold Assenheimer				
Located Over	WABASCA RIVER, 8.10.18, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	813:10 C1 7.147				Assistant Name	Lorne Ramstad				
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	07-Jan-2011				
Legal Land Location	NE SEC 24 TWP 79 RGE 23 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-113:27:09, 55:52:04				Data Entry Date	04-Feb-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Stew Hagan				
Contract Main. Area	CMA06				Review Date	12-Jan-2011				
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	1,070 / 2009 (A)				Dept. Review Date	08-Feb-2011				
Road Classification	RCU-210-110				Follow-Up By					
Detour Length (km)	300									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 65 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)	Yes								
Remarks	Required.								
Other Sign Types	Narrow bridge.								

Utilities (Located at)										
Utility Attachments										
Telephone	West r/w				Gas					
Power	1 wire East r/w.				Municipal					
Others	Hydrometric Guage NW corner.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curves each way, no passing.				
Vertical Alignment			8	8					
Roadway Width (m)	11.800				Insufficient length. SW & NE - 30.4; SE & NW - 38m.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			4	7					
Length (m)	30.400								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			8	8					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC (SC) , 3 Spans, Lengths(m): 6.1-12.8-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			6	6	ACP cracking over piers. ACP longitudinal cracks were not connected between different girder types - photo.-09-Aug-2007
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			4	4	Erosion of headslope under last drain at each corner of end spans, worst @ SE.
Drains Clogged (Y/N)		Yes			
Curbs/Median			6	N	Minor chips.
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			7	7	Double layer.
(Type : GALVANIZED STEEL W-BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	S1 & S3
Last					
Now					
Girders			4	4	G5, G6, G7, G9 wide longitudinal cracks @ c/l in legs 11 girders. S1 & S3 have mix of HC & SC girder types. G2 & G3 are SC, remainder are HC. S3G8 has wide longitudinal crack in West leg 2/3 length outside AZ. All punchouts are patched. 9 HC & 2 SC each span 1 & 3. S1G5 WLC 1 leg in AZ with sound concrete. S3G5 with WLC in AZ 1 leg with sound concrete. S1G11 spall outside AZ 1 leg.
Last Complete Inspection Date		07-Jan-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 22)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	4	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : PE (SC))					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			6	6	See HC span comments.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over. ACP cracked over piers, typical.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	N	
(Curb Type :)					
Scaling (Percent Area)		2			
Bridge Rail			7	7	Double layer.
(Type :)					
Bridge Rail Posts			6	6	All S2 posts are blocked to line up with S2 & S3 rail.
(Type :)					
Bridge Rail/Posts Coating			7	7	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			N	5	S2G2 & G3 are SC, remainder of S2 girders are PE. G5,G6 with spaiing one leg out AZ and WLC in 1 leg with sound concrete in AZ. G7-11 WLC outside AZ with sound concrete.
Last Complete Inspection Date		07-Jan-2011			
Cracking (Y/N)					
Spalling (Percent Area)					
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 11)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	5	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:2)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last					Paint on steel cap. Some stiffeners not centered over pile. Steel H-pile.	
Now					Timbercap is rotten-not supporting any loads.	
Bearing Seats/Caps/Corbels				7	7	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 310)						
Backwalls/Breastwalls				6	6	Front sheathing on both abutments.
Greatest Height (m)		3.00				
Wingwalls				6	6	
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last					A2P5 has rotten section near top but appears to have been grouted when installing steel capital.	
Now						
Piles				4	4	
Paint/Coating				7	6	Superficial rust.
Abutment Stability				5	5	
Scour/Erosion				6	4	erosion from Se drain at headslope.
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 12:12)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last					Double steel cap with 8 corbels over each of the 2 rows of piles at each pier.	
Now						
Bearing Seats/Caps/Corbels				7	7	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 310)						
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last					All pier piles are sheathed in but wide vertical cracks are noticed in some piles where visible near top of sheathing. 150mm HSS struts.	
Now					Signs of rot near ice line.	
Pier Shaft/Piles				4	4	
Greatest Height (m)		4.40				
Bracing/Struts/Sheathing				5	5	
Nose Plate				7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		7	6	Superficial rust.
(Colour Description : BLUE)				
(Colour Code : 15182)				
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Bend U/S.
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		4	4	Minor erosion @ SE corner from deck drain above.
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
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							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	40.1/38.8	Est. Repl. Yr	2020	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor girder 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	07-Apr-2014		Previous Inspection Date	09-Aug-2007			
Inspection Cycle (Default) (months)	39						
Comment							