

Bridge Inspection											
Bridge File Number	13163 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1975/1975				Lot No.	2					
Bridge or Town Name	MAYERTHORPE				Inspector Name	Todd Warshawski					
Located Over	TRIBUTARY TO PADDLE RIVER, 8.11.84.30.31, WATERCRS-ST				Inspector Class	BR CLS B					
Located On	647:02 C1 15.732				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	27-Feb-2013					
Legal Land Location	SE SEC 5 TWP 57 RGE 9 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-115:17:53, 53:53:24				Data Entry Date	11-Mar-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA12				Review Date	07-Mar-2013					
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	450 / 2011 (A)				Dept. Review Date	13-Mar-2013					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	6										
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	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	Incorrectly installed on 1st guardrail post.										
Other Sign Types											
Utilities (Located at)											
Utility Attachments											
Telephone	South r/w.				Gas						
Power	2 lines North r/w crosses road 40m W.				Municipal						
Others					Problem (Y/N)	No					
Remarks											
Approach Road											
			Last	Now	Explanation of Condition						
Horizontal Alignment			8	7	Residence access 20m SW. sag curve.						
Vertical Alignment			7	7							
Roadway Width (m)	7.800				Longitudinal wide cracks on approaches.						
Approach Bump			6	5							
Guardrail (Y/N)	Yes										
Guardrail			7	7	12m @ SW 15m @ NW, NE, SE						
Length (m)	12.000				not Fleet						
Current Standard (Y/N)	No										
Termination Type	Turn Down										
Drainage			7	7							
Approach Road General Rating			7	7							

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 6.1-7.6-6.1, 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	10.0				
Wearing Surface			4	4	Wide cracks over abutments and piers. 1 wide long. crack West span.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved over.
Deck Rideability			7	6	
Deck Joints			N	N	ACP cover. Minor.
Bump (Y/N)		Yes			
Deck Drainage			7	6	No drains.
Drains Clogged (Y/N)					
Curbs/Median			4	4	Patch spalling @ South curb over pier 2 & North curb over P1 - photos, 2 connector pocket not grouted North curb.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	Double layer. Insufficient thread on 4 AB S. curb.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	S1G8 - Concrete spall along inner face with exposed void and stressing strands with unsound concrete. S1G6 - Stains and efflorescence stains on South face. S2G1 - Medium longitudinal crack along girder underside. S2G8 - Wide transverse crack with stains approx. 2m from East pier. End spalls in bearing areas on all curb units at piers. Stained from connector pocket corrosion.
Last			1		
Now	0	0	1	1	
Girders			2	2	Minor chips on exterior of S1G1. Ends of most girders are cracked/spalled over piers- photo. Rust staining at girder connections. S1G8 spall in AZ, unsound concrete exposed and corroding rebar - photo . (E-mail sent to Brent Herrick from site followed by LRA).28-Jan-2009
Last Complete Inspection Date		27-Feb-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 24)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			2	2	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1200)						
(Total Number of Caps/Corbels : 3:3)				Cored - 27-Feb-2013		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	6	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				5	5	
Greatest Height (m)		1.70				
Wingwalls				5	5	
(Total Number of Bearing Piles : 9:9)				Minor checks on several piles.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				5	6	
Paint/Coating				X	X	
Abutment Stability				7	5	
Scour/Erosion				6	5	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 3:3)				Start of rot in South end of upper cap on Pier 2. Plywood shims on Pier 1.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	4	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
(Total Number of Bearing Piles : 9:9)				Rot with small voids on Pier 1-P1, Pier 2-P6,7. Minor split on Pier 1-P8		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now				3		
Pier Shaft/Piles				5	3	
Greatest Height (m)		3.60				
Bracing/Struts/Sheathing				5	5	
(Bracing. Not low enough. Broken brace P1- splinter off one, still functional.						
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		6	6	
Scour		5	5	
Debris (Y/N)	No			
Substructure General Rating		5	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		4	4	(Sloughing of banks u/s & d/s.
HWM (m below Top of Curb)	1.7			Date unknown
Drift (Y/N)	No			
Slope Protection		7	6	
(Type : RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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	2013	Grout lift hook pocket and curb spalls, if not done.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS	2013	Replace S1G8 + S2G8.					
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS	2013	Replace upper South cap on Pier 2.					
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Seal cracks in ACP - Patch approaches.					
OTHER ACTION	2013	Post 3 piles.					
OTHER ACTION	2013	Treat and band 5 piles.					
OTHER ACTION	2013	Replace plywood shim on pier 1 with steel plates.					
Structural Condition Rating (Last/Now) (%)	38.9/27.8	Sufficiency Rating (Last/Now) (%)	56.4/51.6	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	LRA sent 30-Jul-2012 to AT (Brent Herrick). LRA reissued 06-Mar-2013 to AT(Brent Herrick, Jeff Zhang)		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	27-May-2016		Previous Inspection Date	27-Jul-2012			
Inspection Cycle (Default) (months)	39						
Comment							