

Bridge Inspection										
Bridge File Number	78047 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1975/1975				Lot No.	1				
Bridge or Town Name	MEDICINE HAT				Inspector Name	Jon Davies				
Located Over	SMR - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B				
Located On	523:02 C1 21.245				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	07-Mar-2012				
Legal Land Location	SW SEC 25 TWP 12 RGE 7 W4M				Data Entry By	Kelsey Roberts				
Longitude, Latitude	-110:50:19, 50:01:08				Data Entry Date	07-Apr-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts				
Contract Main. Area	CMA23				Review Date	24-Mar-2012				
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	150 / 2011 (A)				Dept. Review Date	17-Apr-2012				
Road Classification	RLU-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										
Other Sign Types										
Utilities (Located at)										
Utility Attachments										
Telephone	attached to s. side of bridge				Gas	Xing road 30m west				
Power	Crosses road 210m East and at North Row				Municipal					
Others					Problem (Y/N)	No				
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			9	9						
Vertical Alignment			7	7						
Roadway Width (m)	9.000									
Approach Bump			7	5						
Guardrail (Y/N)	Yes				Guardrail wraps around canal service road at all 4 corners. No Thriebeam					
Guardrail			5	6						
Length (m)	5.100									
Current Standard (Y/N)	No									
Termination Type	Wingend									
Drainage			7	7						
Approach Road General Rating			7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 1 Spans, Lengths(m): 6.1, A-Ident Number:)					
Special Features					
Special Feature			X	File Tags at SW & NE	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			6	4	Minor raveling and debonding in both driving lanes. Minor potholes
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	5	
Deck Joints			N	N	
Bump (Y/N)		No			
Deck Drainage			6	6	No drain holes
Drains Clogged (Y/N)					
Curbs/Median			6	6	Flex cracks, minor spalls, map cracks
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			7	7	Double Layer
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	2	
Girders			5	3	Connector pocket corrosion stains on all girders. Hairline longitudinal cracking with no staining from strand at G2,3,4,5,6 and 7. Curb girders G1 & G8 have narrow longitudinal cracks with corrosion stains suspected from strand. Lift pockets not grouted at curbs. North and South curbs have vertical narrow cracks running from interior to exterior.
Last Complete Inspection Date		07-Mar-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	3	

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)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Deep checks in east abutment cap, on subcap	
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				5	5	
Greatest Height (m)		1.40				
Wingwalls				7	7	
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Banded to backwall	
Last						
Now	0	0	0	0		
Piles				6	5	
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				6	6	
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				X	X	
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						
Pier Stability				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				90 deg bend N & S
(D/S Direction : S)				Turnout structure 25m N, drop
Alignment		5	5	
Bank Stability		N	6	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		7	6	
(Type : RIP RAP; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	ACP patch up to 30^2					
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	2012	Grout lift pockets at curbs					
OTHER ACTION	2012	Investigate and repair as required G1 and G8 curb girders longitudinal narrow cracks with corrosion stains.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/44.4	Sufficiency Rating (Last/Now) (%)	65.3/60.3	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next 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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	07-Jun-2015		Previous Inspection Date	13-Mar-2009			
Inspection Cycle (Default) (months)	39						
Comment							