

Bridge Inspection										
Bridge File Number	78049 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1976/1976				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 19.315				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	07-Mar-2012				
Legal Land Location	SW SEC 26 TWP 12 RGE 7 W4M				Data Entry By	Kelsey Roberts				
Longitude, Latitude	-110:51:56, 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	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	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									
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	Attached to South side				Gas	Crosses road 50m West			
Power	At North and crossing 30m West				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	7	Intersection at West Steep drop to the west				
Vertical Alignment			5	5					
Roadway Width (m)	8.900				No thriebeam				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			6	6					
Length (m)	5.000								
Current Standard (Y/N)	No								
Termination Type	wing end								
Drainage			6	6					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 1 Spans, Lengths(m): 7.6, A-Ident Number:)					
Special Features					
Special Feature			X	Wrong file tag number at 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				7	6
(Material Type : ACP)					
(Thickness(mm) : 100)					
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			6	6	no drain holes
Drains Clogged (Y/N)					
Curbs/Median			6	6	Minor Spalling at the N E corner from plow damage
(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			5	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	2	
Girders			4	3	Connector pocket corrosion stains on all girders.
Last Complete Inspection Date		07-Mar-2012		Fire damage on girder #1 & 2 from the S @ the W end with spalls 3-4mm deep.	
Cracking (Y/N)		Yes		Hairline longitudinal cracks with no stains from strand at G3, 4,5 and 6. Both curbs have narrow vertical cracks running from interior to exterior faces.	
Spalling (Percent Area)		1		G2 has hairline longitudinal cracks with stains from strand and delaminations 2m from a AZ with stains.	
Lift or Connector Pocket Grouted (Y/N)		No		G8 has a delamination 3m from AZ with stain.	
(Number Of Girders : 8)				1 lift pocket at SE curb not grouted	
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	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 : 4:4)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	East cap has 300 x 70mm shim on top of east cap, bearing plates on top of files.	
Last						
Now	0	0	0	0	Fire damage with some charring @ the SW corner on the caps with Dd eep checks.	
Bearing Seats/Caps/Corbels				5		
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		2.50				
Wingwalls				6	4	Missing tin cap at NE
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Minor fire damage charring at SW piles	
Last						
Now	0	0	0	0		
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				7	6	
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)	Yes			Old piles in channel under bridge
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				No headslope just silting along walls.
(D/S Direction : S)				
Alignment		8	8	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	No			Rip Rap on East side with breastwall at SE
Slope Protection		6	5	
(Type : NATURAL; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	5	

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	2012	Grout lift pockets at the Southeast					
OTHER ACTION	2012	Investigate and repair as required. G1 hairline longitudinal cracks and 2 delams. G8- 1 delam. Estimate 0-5m ² of total delam.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	64.1/60.3	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							