

Bridge Inspection										
Bridge File Number	78571 W-2 Bridge				Form Type	PSR				
Year Built/Year Supstr	1981/1981				Lot No.	2				
Bridge or Town Name	MEDICINE HAT				Inspector Name	Tom Carey				
Located Over	10130:02 R1 0.181;10130:02 L1 0.186				Inspector Class	BR CLS A				
Located On	1:21 L1 3.575				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	09-Feb-2012				
Legal Land Location	NW SEC 35 TWP 12 RGE 6 W4M				Data Entry By	Lauren Korte				
Longitude, Latitude	-110:43:30, 50:02:52				Data Entry Date	25-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts				
Contract Main. Area	CMA23				Review Date	26-Feb-2012				
Clear Roadway/Skew	13.6 / -15 deg. (LHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	25,160 / 2011 (A)				Dept. Review Date	29-Mar-2012				
Road Classification	RFD-412.4-130				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS230									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 10130 L1 6.3m, 10130 R1 5.5m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.3	In Advance (Y/N)	Yes
Remarks		(Measured 5.425 on BF 78571 in N/B lane. Posting is accurate).										
Required Load Posting (t)			Single		Semi			Truck Train				
Posted Loading (t)			Single		Semi			Truck Train				
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)			At Bridge (Y/N)				
Posted:	Lane	WB	At Junction (Y/N)		No	In Advance (Y/N)		No	At Bridge (Y/N)			
Remarks		Not required.										
Hazard Marker At Bridge (Y/N)			No									
Remarks												
Other Sign Types			ROUTE SPEED CURVE.									

Utilities (Located at)				
Utility Attachments	OTHER UTILITIES-OTHER LINES; POWER UTILITIES-POWER LINE			
Telephone			Gas	
Power	10 West 100m South.		Municipal	Manhole @ median @ 3rd St.
Others	Light standards under deck lights.		Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Hill and curve both ends.
Vertical Alignment		5	5	Over 3rd street.
Roadway Width (m)	12.500			Paving lip at East abut joint has 2 broken areas- 0.2 m2 total- 0.3 m2 broken areas at West abut joint paving lip.
Approach Bump		4	4	
Guardrail (Y/N)	Yes			Concrete.
Guardrail		7	7	
Length (m)	65.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNDOWN			
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : RM, 3 Spans, Lengths(m): 14.3-27-11, A-Ident Number:)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
Last	0	0	0	0			
Now	0.0	0.0	0.0	0.0			
Wearing Surface			6	6	Isolated long crack. Concrete. Possible key cracks.		
(Material Type : CONCRETE)							
(Thickness(mm) : 50)							
Lateral Connection Problem (Y/N)		Yes					
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			4	4	Suspect concrete or gland failed @ West pier. Staining @ North end of West pier. Paving lips spalled at both abut joints 0.5 m2 area total.		
Temperature (deg. C)		-10					
(Expansion Type :)							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
33		W abut					
55		W pier					
30		E pier					
50		E abut					
Deck Drainage			5	5	Staining @ North end of West pier. No drains.		
Drains Clogged (Y/N)		No					
Curbs/Median			3	3	Concrete parapets. Surface spalls & exposed rebar @ North.		
(Curb Type : None)							
Scaling (Percent Area)		10					
Bridge Rail			X	X			
(Type :)							
Bridge Rail Posts			X	X			
(Type :)							
Bridge Rail/Posts Coating			X	X			
(Type :)							
Sidewalk			X	X			
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	0	0	0	0			
Girders			8	8			
Cracking (Y/N)		No					
Spalling (Percent Area)		0					
(Number Of Girders : 30)							
Diaphragms/Cross Frame			X	X			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RM, 3 Spans, Lengths(m): 14.3-27-11, A-Ident Number:)				
Bearings		7	7	Teflon & plastic @ East abut & West pier. Neoprene pads and @ Center span between girders.
Temperature (deg. C)	-10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Stains @ deck exterior.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		4	4	Map cracking and corrosion stains at NE.
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Stained and corrosion stained at West pier and North end.
Bearing Seats/Caps		7	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		8	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	
Traffic Safety Features		4	4	Parapet cracked @ NW.
Type	MEDIAN			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	If not done - seal leaks @ West pier. Patch paving lips at both abut- 0.1 m3 grout.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch NE wingwall.					
OTHER ACTION	2012	Patch spalls @ parapets- approx 50m2.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/72.2	Sufficiency Rating (Last/Now) (%)	62.8/57.9	Est. Repl. Yr	2042	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	09-Nov-2013		Previous Inspection Date	14-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							