

Bridge Inspection										
Bridge File Number	72819 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1977/1977				Lot No.	2				
Bridge or Town Name	ROCKY MT HOU				Inspector Name	Owen Salava				
Located Over	CNR				Inspector Class	BR CLS A				
Located On	11:10 C1 10.491				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	02-Feb-2012				
Legal Land Location	SW SEC 23 TWP 39 RGE 7 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-114:54:27, 52:21:54				Data Entry Date	01-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA18				Review Date	22-Feb-2012				
Clear Roadway/Skew	13.4 / -12 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	12,080 / 2010 (A)				Dept. Review Date	09-Mar-2012				
Road Classification	RAU-213.4-120				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 Vert. Clearance Posting (m)									
Posted Vertical Clearance (Y/N)	No								
Posted:	Lane	NB	On Bridge (m)	In Advance (Y/N)	Lane	SB	On Bridge (m)	In Advance (Y/N)	
Remarks	Not required.								
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)	No								
Remarks	Not required.								
Other Sign Types	Low speed, street lights.								

Utilities (Located at)										
Utility Attachments										
Telephone	Both r/w's.				Gas					
Power	4 wires crossing North abutment.				Municipal					
Others	Street lights at corners 12m from centerline.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Urban road.				
Vertical Alignment			7	7	Crest curve over tracks.				
Roadway Width (m)	15.200								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Creased in several places but functional.				
Guardrail			5	5					
Length (m)	65.000								
Current Standard (Y/N)	No				Not standard post spacing, 2 required all 4 corners. Not thrie beam.				
Termination Type	Turn Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RD, 3 Spans, Lengths(m): 15.2-15.2-15.2, 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	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	Chipseal on HDC. Chipseal delam at piers, abutments - photo. Staining between S1G12/G13 due to poor seal between bridge/sidewalk girders. (Grout key cracks are in traveling lanes only. 28/Jul/2007). Not visible under chipseal.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			5	5	Minor bump at all joints.
Deck Joints			7	7	
Temperature (deg. C)		-3			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
75		N abut			
81		North pier			
70		South pier			
72		South abutment			
Deck Drainage			6	5	W end pier cap stained by leakage. Underside stains btwn deck & sidewalk.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Fascia covered with epoxy, 2 rust staining visible. Coating on exterior peeling. Typical vertical cracking. Spall W post 1 & 5.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	Base plate rust staining visible.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			6	6	(Water ponding with superficial scaling. 28/Jul/2007) Sidewalk is sloped towards traffic lanes.
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RD, 3 Spans, Lengths(m): 15.2-15.2-15.2, A-Ident Number:)				
Girders		6	6	Hairline longit. crack @ N. span G11 outside AZ and also @ S. span G13 outside AZ. 0.08mm accum dirt.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 42)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	-4			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	S1G12-13 stained due to poor seal between bridge/sidewalk girders. Multiple areas of leakage staining.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		N	N	
Wingwalls		6	6	Missing bridge plaque at NW.
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-COLUMN)				Short narrow crack & rust stained @ N pier. Old staining from poor seal btwn G11-12 (sidewalk/bridge) both piers - photo. Water ponding in both pier ditches.
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 8:8)				
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	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		X	X	
Type	NONE			
Slope Protection		5	5	Concrete slope protection on S abut 100mm x 200 x 14.0m. N abut 70mm x 200 x 14 pulled away from cap. Crack @ toe of slope E side S pier.
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	8	
Drainage		7	5	Ponding along N pier at toe of hslp.
Grade Separation General Rating		7	7	

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	2012	Redo chip seal or pave.								
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS										
WASHING	2012									
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Fill gap between backwall & slope protection, 0.5m3 cold mix.								
OTHER ACTION	2012	Replace BF plaque @ NW.								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	55.5/55.5	Est. Repl. Yr	2033	Maint. Req'd. (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	Owen Salava	Previous Assistant's Name								
Next Inspection Date	02-Nov-2013	Previous Inspection Date	31-Mar-2010							
Inspection Cycle (Default) (months)	21									
Comment										

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	2012	Redo chip seal or pave.	Defer until chipseal program is scheduled with others in the area.	2013		
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
WASHING	2012					
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2012	Fill gap between backwall & slope protection, 0.5m3 cold mix.	Operations			
OTHER ACTION	2012	Replace BF plaque @ NW.	Operations			
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	55.5/55.5	Est. Repl. Yr	2033	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection		Department Comments	Scheduled in PMA for replacment in 2022. DA
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Maintenance Reviewed By	Darron Ahlstedt	Date	05-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy					
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Owen Salava	Previous Assistant's Name			
Next Inspection Date	02-Nov-2013	Previous Inspection Date	31-Mar-2010		
Inspection Cycle (Default) (months)	21				

Comment	
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