

Bridge Inspection									
Bridge File Number	72094 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1959/1959				Lot No.	2			
Bridge or Town Name	HOTCHKISS				Inspector Name	Brian Pientsch			
Located Over	MEIKLE RIVER, 8.10.41.3, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	35:08 C1 25.303				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	08-Dec-2011			
Legal Land Location	NW SEC 6 TWP 94 RGE 22 W5M				Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-117:32:07, 57:07:58				Data Entry Date	16-Dec-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA04				Review Date	13-Dec-2011			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Steve Pasquan			
AADT/Year	1,700 / 2010 (A)				Dept. Review Date	10-Jan-2012			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	200								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Curve ahead both directions								

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	3 Wire OH East R/W				Municipal				
Others	West R/W				Problem (Y/N)	No			
Remarks									

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		5	5	Curves at both approaches.	
Vertical Alignment		5	5	Bottom of sag curve. 6% grade. Passing lanes both ends going uphill.	
Roadway Width (m)	9.700				
Approach Bump		6	6		
Guardrail (Y/N)	Yes				
Guardrail		3	3	Slide (15m wde x 30m long x 2m deep) Exposing posts(Photo) 50m South of bridge - repaired not thrie beam, insuff posts. Windrows under gaurdrail. Split post NE corner - photo	
Length (m)	49.400				
Current Standard (Y/N)	No				
Termination Type	TURNED DOWN				
Drainage		5	5		
Approach Road General Rating		3	5		

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : RG, 3 Spans, Lengths(m): 42.7-39.6-39.6, A-Ident Number: A0326-01)								
Special Features								
Special Feature			7	Bottom flanges of span 1 and 3 girders				
(Type :)								
Special Feature			X					
(Type :)								
Wearing Surface/Deck Top Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)	Partly gravel/ice covered			
Last	5	0	0	0				
Now	10.0	0.0	0.0	0.0				
Wearing Surface			4	4	80% chipseal worn off. 50% polymer worn off. Wide traverse cracking in concrete throughout. (Photo) 100mm x 300mm spall just north of pier 2 + concrete scaling just south of pier 1 (previously patched areas)			
(Material Type : CONCRETE - 2 LAYER EPOXY (BOTH LAYERS SEEDED) - CONVENTIONAL CHIP SEAL COAT)								
(Thickness(mm) : 50)								
Deck Top			N	N				
Deck Rideability			7	7				
Deck Joints			4	4	Staining and spalling concrete with rebar exposed at S. backwall from water leaking through .Water ponding at S. abut. w curb. North angle of south joint 10mm higher than South angle.			
Temperature (deg. C)		-22						
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))								
(Fixed Type :)								
Gap Size (mm)		Gap Location						
35		N. abut						
40		S. abut						
Deck Drainage			5	5	Water ponding in spalls @ S. joint.			
Drains Clogged (Y/N)		No						
Curbs/Median			N	6	Random vertical and horizontal medium and hairline cracks throughout.			
(Curb Type : Standard)								
Scaling (Percent Area)		1						
Bridge Rail			7	7				
(Type : GALVANIZED STEEL BRIDGE TUBE)								
Bridge Rail Posts			7	7				
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)								
Bridge Rail/Posts Coating			7	7				
(Type : GALVANIZED)								
Sidewalk			X	X				
Girder/Beam								
Cover Plate			4	4	Rust between cover plates and bottom flange causing distortion of cover plate on outside girders only. Gap 15 mm east girder between bottom flange & cover plate at N. end .			
Flange			4	4				
Web			7	7				
Stiffeners			7	7				
Splice			7	7				
Weld			7	7				
Diaphragms/Cross Frame			7	7				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RG, 3 Spans, Lengths(m): 42.7-39.6-39.6, A-Ident Number: A0326-01)				
Paint Condition		4	4	FASCIAS HAVE 15% CORROSION.
(Colour Description : GREEN)				
(Colour Code : 14193;14090)				
Touchup Required (Y/N)	No			
Bearings		4	4	The pier bearing under the east girder have hinge bolts which are working themselves loose. G3 at pier 11 mssing 1 bolt BEARINGS RUSTING WHERE EXPOSED TO WATER. Bolts missing from flange to rocker bearing on S. abut. No room on rocker bearing to install remainder of bolts.
Temperature (deg. C)	-20			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		4	4	EFFLORESCENT STAINING THROUGH CRACKS IN DECK. Several spalls near A2 between G3 and G4
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Severe scaling and spalls.
(Type : CONCRETE)				
Backwalls/Breastwalls		4	4	Severe scaling and spalls.
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				Wide vertical cracking Westside P2, Spalling P2 East side. (Photo) Spall on top of pier 2 East side (photo)
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 1:1)				
Pier Shaft/Piles		5	4	
Bracing/Struts/Sheathing		X	X	
Nose Plate		5	5	
Paint/Coating		4	4	Nose plate corroded.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		5	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		5	5	
HWM (m below Top of Curb)				Hwm not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair split GR post					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	42.0/51.4	Est. Repl. Yr	2025	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	Brian Pientsch		Previous Assistant's Name				
Next Inspection Date	08-Sep-2013		Previous Inspection Date	17-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							