

Bridge Inspection							
Bridge File Number	13486 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1970/1970			Lot No.	2		
Bridge or Town Name	NACMINE			Inspector Name	Owen Salava		
Located Over	KNEEHILLS CREEK, 3.46, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	575:04 C1 28.095			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	26-Jan-2011		
Legal Land Location	NE SEC 23 TWP 29 RGE 21 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-112:50:35, 51:29:51			Data Entry Date	03-Mar-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA21			Review Date	03-Feb-2011		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Chris Black		
AADT/Year	1,240 / 2009 (A)			Dept. Review Date	04-Mar-2011		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	4						
Allowable Load (t):	Single	CS1 43 GIRDER	Semi	CS2 53 GIRDER	Train	CS3 70 GIRDER	----> 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	Not required.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks	Missing NE corner, SE corner too low.							
Other Sign Types								

Utilities (Located at)				
Utility Attachments				
Telephone	South r/w.		Gas	East side.
Power	North Row, 3 wire o/h.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve on W end. Intersection 200m E, 150m W.
Vertical Alignment		8	8	
Roadway Width (m)	10.300			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Too low. No post blocks @ transition section. SE transition missing 1 attachment bolt to bridgerail (photo).
Guardrail		6	4	
Length (m)	26.200			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN END			
Drainage		6	4	Trough drains causing erosion to E hslp (photo).
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : FC, 3 Spans, Lengths(m): 10.7-24.4-13.7, A-Ident Number: )							
<b>Special Features</b>							
Special Feature		N	N				
(Type : <b>EXT LATER POST TENS</b> )							
Special Feature			7				
(Type : <b>UNDERSLUNG DIAPHR</b> )							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
<b>Last</b>	0	0	0	0			
<b>Now</b>	5.0	0.0	0.0	0.0			
Wearing Surface		7	7				
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )							
(Thickness(mm) : <b>50</b> )							
Lateral Connection Problem (Y/N)		No					
Deck Top		N	N				
Deck Rideability		7	7				
Deck Joints		7	7				
Temperature (deg. C)		-2					
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )							
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )							
Gap Size (mm)		Gap Location					
65		W. abut.					
60		W pier					
65		E pier					
65		E. abut.					
Deck Drainage		6	6				
Drains Clogged (Y/N)		No					
Curbs/Median		7	N	Snow covered.			
(Curb Type : <b>Standard</b> )							
Scaling (Percent Area)		0					
Bridge Rail		7	7				
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )							
Bridge Rail Posts		4	N	(13 posts have anchor nuts with inadequate thread to anchor bolts. A few grout pads are starting to deteriorate. 17Feb2009). Post bases snow covered. Galvanizing is strating to peel			
(Type : <b>GALVANIZED POST STEEL</b> )							
Bridge Rail/Posts Coating		4	4				
(Type : <b>GALVANIZED</b> )							
Sidewalk		X	X				
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	0			
<b>Now</b>	0	0	0	0			
Girders		5	5	Typical chamfer cracks on some girders, hairline.			
Cracking (Y/N)		Yes					
Spalling (Percent Area)		0					
(Number Of Girders : <b>18</b> )							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 3 Spans, Lengths(m): 10.7-24.4-13.7, A-Ident Number: )				
Diaphragms/Cross Frame		5	5	Isolated minor damage from joint installation.
Bearings		6	6	
Temperature (deg. C)	-2			
(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		7	7	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 8:8)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		5	5	Superficial rusting.
(Colour Description : GREEN)				
(Colour Code : 14090)				
Pier Stability		8	8	
Scour		6	6	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				Curves downstream.
(D/S Direction : <b>N</b> )				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Grout pads at 6 locations, if not yet done.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Extend 13 anchor bolts, if not yet done.					
OTHER ACTION	2011	Install transition rail bolt at SE.					
OTHER ACTION	2011	Reset/install E abut HMs.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>66.0/65.7</b>	Est. Repl. Yr	2039	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	26-Apr-2014		Previous Inspection Date	17-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							