

Bridge Inspection										
Bridge File Number	77919 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1977/1977				Lot No.	2				
Bridge or Town Name	BEISEKER				Inspector Name	Garry Roberts				
Located Over	2:18 L1 19.463;2:18 R1 19.463				Inspector Class	BR CLS A				
Located On	72:10 C1 0.000				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	13-Sep-2011				
Legal Land Location	SE SEC 13 TWP 28 RGE 1 W5M				Data Entry By	Alyssa Boynton				
Longitude, Latitude	-114:00:07, 51:23:14				Data Entry Date	21-Oct-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Ash Morjaria				
Contract Main. Area	CMA29				Review Date	09-Oct-2011				
Clear Roadway/Skew	12.2 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	2,310 / 2010 (A)				Dept. Review Date	28-Oct-2011				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	20									
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)			UNDER: 2 L1 5.5m, 2 R1 5.5m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.5	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.6	In Advance (Y/N)	Yes
Remarks		ON/OFF RAMP PASSING UNDER-ALSO SIGNED										
Required Load Posting (t)			Single		Semi		Truck Train					
Posted Loading (t)			Single		Semi		Truck Train					
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Remarks		Not req.										

Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types		ROUTE, SPEED										

Utilities (Located at)												
Utility Attachments												
Telephone	South side.				Gas							
Power					Municipal							
Others					Problem (Y/N)	No						
Remarks												

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		7	7	Ramps E & W.	
Vertical Alignment		6	6		
Roadway Width (m)		11.200			
Approach Bump		6	6		
Guardrail (Y/N)		Yes		Bent but still functional	
Guardrail		4	4	Wrong lap at NE.	
Length (m)		57.000		Not thriebeam.	
Current Standard (Y/N)		No			
Termination Type		TURNED DOWN ENDS			
Drainage		6	3	Spalled at NE drain trough. Erosion hole at SE 1m deep and extends under approach.	

Approach Road					
			Last	Now	Explanation of Condition
Approach Road General Rating			6	6	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : LF, 2 Spans, Lengths(m): 38.1-38.1, A-Ident Number:)					
Special Features					
Special Feature			7	7	Dwydag bars Underslung Beams.
(Type : EXT LATER POST TENS)					
Special Feature			7	7	
(Type : UNDERSLUNG DIAPHR)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	5	
Now	0.0	0.0	0.0	5.0	
Wearing Surface			3	3	10m2 areas failed @ both east, west spans & west approaches slab
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	6	
Deck Joints			6	3	1m long debonded and spalled section at West abutment, paving lip.
Temperature (deg. C)		10			
(Expansion Type : FINGER PLATES)					
(Fixed Type : ASPHALTIC FIBRE BOARD)					
Gap Size (mm)		Gap Location			
60		East			
75		West			
70		Pier			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Several posts A/B nuts not fully engaged. Surface corrosion at edges of base plates.
(Type : BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			5	4	
(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	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : LF, 2 Spans, Lengths(m): 38.1-38.1, A-Ident Number:)				
Girders		4	4	Narrow to med cracks in mid section of girders legs approx 2.0 long @ most girder ends. At east abut. Cracking extends through top chamfer into deck approx 1.5m from girder ends. Typical cracks 0.4mm to 0.5mm wide - estimate. Vertical cracks at girder ends over piers.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 16)				
Diaphragms/Cross Frame		6	6	Isolated narrow cracks.
Bearings		7	7	
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 (Percent Area)	1			
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		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		X	8	
Scour/Erosion		X	7	
Piers/Bents				
(Type : PIER-COLUMN)				Vertical crack at West side South end of pier cap.
Bearing Seats/Caps		7	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Peeling at both ends of pier from previous joint leakage.
(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		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		7	7	Cable barrier at East median shoulder.
Type	GUARDRAIL			
Slope Protection		3	3	Lower east section heaved 160mm full width.
(Type : CONCRETE; CONCRETE)				
Bank Stability		4	5	
Drainage		7	4	Backwall drainage is undermining slope protection.
Grade Separation General Rating		3	3	

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	2012	Chipseal entire deck.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Repair spall at A1 - 1m x 0.3m					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Grout void at SE approx 2m3.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repour east slope protection approx. 15m2					
OTHER ACTION	2012	Repair NE drain trough 0.3m2					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/55.6	Sufficiency Rating (Last/Now) (%)	53.1/46.7	Est. Repl. Yr	2038	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	13-Jun-2013		Previous Inspection Date	29-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							