

Bridge Inspection										
Bridge File Number	79766 -1 Bridge					Form Type	PSR CON			
Year Built/Year Supstr	1983/1983					Lot No.	2			
Bridge or Town Name	GENESEEE					Inspector Name	Wade Nanninga			
Located Over	LOCAL ROAD					Inspector Class	BR CLS A			
Located On	770:04 C1 16.986					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	18-Oct-2012			
Legal Land Location	NE SEC 24 TWP 50 RGE 3 W5M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:18:14, 53:20:10					Data Entry Date	24-Oct-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11					Review Date	22-Oct-2012			
Clear Roadway/Skew	11 /					Dept. Reviewer Name	Brent Herrick			
AADT/Year	940 / 2011 (A)					Dept. Review Date	13-Nov-2012			
Road Classification	RCU-210-110					Follow-Up By				
Detour Length (km)	24									
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS300									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N) Yes												
Posted:	Lane	EB	On Bridge (m)	8.1	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	8.1	In Advance (Y/N)	No
Remarks	Hazard markers attached to girders.											
Required Load Posting (t)												
Posted Loading (t)												
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												
Other Sign Types No parking on bridge, icy @ 0 degree.												

Utilities (Located at)									
Utility Attachments									
Telephone	East & West r/w.					Gas			
Power	4 wires East r/w					Municipal			
Others	Street lighting.					Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curves at both ends of bridge. Typical overpass crest curve. Limited sight distances.
Vertical Alignment		6	6	
Roadway Width (m)		11.000		Wrinkles & tear @ SW turn down, still functional.
Approach Bump		6	6	
Guardrail (Y/N)		Yes		
Guardrail		4	5	
Length (m)		87.000		
Current Standard (Y/N)		Yes		
Termination Type		Turned Down		
Drainage		4	4	Approach drainage running under NW, SW & SE wing and eroding fill.
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FM, 5 Spans, Lengths(m): 25-6-27-6-25, 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					
Wearing Surface			6	6	Chipseal peeled off rear pier joints/
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	
Temperature (deg. C)		10			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
75		S. abutment			
80		Pier 1			
70		Pier 2			
70		Pier 3			
78		Pier 4			
78		N. abutment			
Deck Drainage			6	6	(Small bird baths along East side. Sept/08/03.)
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Several narrow vertical cracks.
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		5			
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)	G1, 7 vertical crack North span.
Last				2	
Now				2	
Girders			3	3	
Cracking (Y/N)		Yes			Typical FM cracks on top chamfer at ends. Patches @ ends of girders. High load damage to G1-G6 center span. Strands exposed G4-G5. G1 South span vertical crack @ North end - photo. G3/G6 South span vertical crack @ South end - photo. Patches @ girder ends.
Spalling (Percent Area)		0			
(Number Of Girders : 21)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FM, 5 Spans, Lengths(m): 25-6-27-6-25, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		7	7	
Temperature (deg. C)	10			
(Expansion Type : REINFORCED PAD BEARING;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)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Secondary Span : CV)				
Special Features				
Special Feature			X	
(Type :)				
Special Feature			X	
(Type :)				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last				
Now				
Wearing Surface		5	5	(Map cracking span 2 & 4 - photo. Sept/08/04) Covered with chipseal. Peeling near joints, couple square meters.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)				
(Thickness(mm) : 50)				
Deck Top		N	N	
Deck Rideability		7	7	
Deck Joints		7	7	
Temperature (deg. C)	10			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))				
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))				
Gap Size (mm)	Gap Location			
Deck Drainage		6	6	No drains.
Drains Clogged (Y/N)				
Curbs/Median		6	6	Several vertical cracks.
(Curb Type : JERSEY/F SHAPE)				
Scaling (Percent Area)	5			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Secondary Span : CV)				
Bridge Rail		X	X	
(Type :)				
Bridge Rail Posts		X	X	
(Type :)				
Bridge Rail/Posts Coating		X	X	
(Type :)				
Sidewalk		X	X	
Girders		7	7	Cast in place section.
Diaphragms/Cross Frame		X	X	
Bearings		X	X	No bearings.
Temperature (deg. C)	10			
(Expansion Type : REINFORCED PAD BEARING;REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)				
Functioning (Y/N)				
Deck Underside		6	6	
Stains (Percent Area)				
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		4	4	Wide vertical crack NW & c/l North abutment. Wide vertical crack SW & c/l, South abutment.
(Type : CONCRETE)				
Backwalls/Breastwalls		4	4	Wide crack NW, North abutment. Wide diagonal crack SW, South abutment.
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		5	5	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				Wide vertical cracks @ South pier, East & West side cap & leg. Water stained or fascias likely due to poor jt/curb cover plate detail. Wide crack under drain @ NW.
Bearing Seats/Caps		4	3	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0:0)				Wide vertical crack North pier East leg on North. 5 shafts/pier on common footing.-photo
Pier Shaft/Piles		4	3	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	6	Cracking in piers.
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	3	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		7	7	
Type	Crash Wall			
Slope Protection		7	7	Pitrun.
(Type : GRAVEL; GRAVEL)				
Bank Stability		7	7	
Drainage		6	6	
Grade Separation General Rating		7	6	

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							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair pier cap cracking.					
OTHER ACTION	2012	Repair high load damage.					
OTHER ACTION	2012	Seal hole @ SE corner.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/33.3	Sufficiency Rating (Last/Now) (%)	46.0/44.0	Est. Repl. Yr	2038	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor delam crcks in pier caps, abutments and pier shafts.		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	Arnold Assenheimer		Previous Assistant's Name				
Next Inspection Date	18-Jan-2016		Previous Inspection Date	05-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							