

Bridge Inspection												
Bridge File Number	75945 -1 Bridge					Form Type	PSR					
Year Built/Year Supstr	1966/1966					Lot No.	2					
Bridge or Town Name	INNISFAIL					Inspector Name	Owen Salava					
Located Over	2:22 L1 27.931;2:22 R1 27.920					Inspector Class	BR CLS A					
Located On	590:02 C1 0.224					Assistant Name						
Water Body Cl./Year						Assistant Class						
Navigabil. Cl./Year						Inspection Date	13-Mar-2013					
Legal Land Location	NW SEC 22 TWP 35 RGE 28 W4M					Data Entry By	Marcia Chavez					
Longitude, Latitude	-113:55:53, 52:01:35					Data Entry Date	26-Mar-2013					
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien					
Contract Main. Area	CMA19					Review Date	16-Mar-2013					
Clear Roadway/Skew	12.2 / -10 deg. (LHF)					Dept. Reviewer Name	Chris Black					
AADT/Year	3,370 / 2011 (A)					Dept. Review Date	28-Mar-2013					
Road Classification	RAU-213.4-120					Follow-Up By						
Detour Length (km)	5											
Allowable Load (t):	Single	CS1 38 GIRDER			Semi	CS2 52 GIRDER			Train	CS3 71 GIRDER		----> On Critical Spans ---->Critical Member
Design Loading:	HS20										----> Primary Span	

Posting Information													
Required Vert. Clearance Posting (m)				UNDER: 2 L1 5.3m, 2 R1 5.3m									
Posted Vertical Clearance (Y/N)				Yes									
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	
Remarks													
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													

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

Utilities (Located at)												
Utility Attachments												
Telephone	At West.					Gas						
Power	Light standards all 4 corners.					Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		6	6	Typical overpass crest curve and intersection ramps.	
Vertical Alignment		6	6		
Roadway Width (m)	12.600			Potholes in approach ACP.	
Approach Bump		6	6		
Guardrail (Y/N)		Yes		SW transition missing 1 connector bolt.	
Guardrail		6	6		
Length (m)	95.000				
Current Standard (Y/N)		Yes			
Termination Type		Turn Down			
Drainage		6	4	Icing on both abuts under finger jnts.	
Approach Road General Rating		6	6		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 4 Spans, Lengths(m): 12.2-16.8-21.3-12.2, A-Ident Number:)					
Special Features					
Special Feature		X	7	S3G1	
(Type : HIGH LD BUMPER)					
Special Feature		X	7		
(Type : EXT LATER POST TENS)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	10.0	0.0	0.0	0.0	
Wearing Surface			5	5	Chip seal on concrete.
(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			3	3	14 plow guards broken. Abut joint plumbing plugged with gravel at W.; overflowing onto abutment seats. Ripped gland at P3.
Temperature (deg. C)		-2			
(Expansion Type : FINGER PLATES;GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
35		E. abut - Finger			
38		W. abut - Finger			
78		E. pier			
74		W. pier			
70		C. pier			
Deck Drainage			7	4	Abut plumbing spills onto seats. Shallow delams around weep tubes at U/S deck. P2 drain outlet is above the cap. Pier caps have cracks & corrosion stains.
Drains Clogged (Y/N)		Yes			
Curbs/Median			4	4	Exterior fascia of curb delaminating on approximately 3%.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			4	4	7th rail from SW has 3 vertical bars damaged.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			4	5	Anchor bolts short on 20%. Post grout 5% deteriorated.
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
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 : FC, 4 Spans, Lengths(m): 12.2-16.8-21.3-12.2, A-Ident Number:)				
Girders		5	5	S2G4,6,9 have rust spots by underside; S3G1,4-6 same. Numerous typical shoe cracks 15%. S2G1 has HLD.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 36)				
Diaphragms/Cross Frame		5	5	15% of diaphragms have bottom delam.
Bearings		5	5	Roller bearing A1 & A2. Choo choo bearings P1 & P3. P2
Temperature (deg. C)	-2			
(Expansion Type : ROLLER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		5	5	Deck underside has shallow delams, 300mm dia., around weep tubes; other weep tubes have stains.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	Ice on NE bearing seat.
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		4	4	Coating fading, peeling.
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Very minor delam N end of P3 on E face & at S end of P1. Cracks at ends of all piers with some corrosion staining. Ice and corrosion stain at N end of P3 cap.
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	5	Some peeling at wetted areas at ends.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		9	9	
Type	Guardrail			
Slope Protection (Type : CONCRETE; CONCRETE)		5	5	Ice on NE and S slope protection. W gap 110mm, top is sloped backwards; E gap 70mm & 112mm. Sloped backwalls at top.
Bank Stability		6	6	Concrete retaining walls at P1 & P3.
Drainage		7	7	
Grade Separation General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Repair 1 section of vertical bar rail.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Patch spalled areas, 0.3m3 OH-V.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Reseat or replace P3 gland. Replace broken plow guards.					
RESET/ PAINT BEARINGS							
WASHING	2013	Finger plumbing plugged, clean out W trough.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Extend drain near N end of P2.					
OTHER ACTION	2013	Extend weep tubes.					
OTHER ACTION	2013	Patch potholes at approaches.					
OTHER ACTION	2013	Patch HLD chips S2G1.					
OTHER ACTION	2013	Install transition bolt at SW.					
OTHER ACTION	2013	Reseal abuts/piers wehre degraded.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	53.7/54.3	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	slope protection can go another several years before repair if water controlled. Bottom of slope protection contained by retaining walls.		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	13-Dec-2014		Previous Inspection Date	12-Aug-2011			
Inspection Cycle (Default) (months)	21						
Comment							