

Bridge Inspection									
Bridge File Number	75392 -1 Bridge					Form Type	TT		
Year Built/Year Supstr	1961/1961					Lot No.	3		
Bridge or Town Name	EMPRESS					Inspector Name	Owen Salava		
Located Over	TRAIL-ANIMAL, OVER SP					Inspector Class	BR CLS A		
Located On	41:08 C1 54.780					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	18-Jul-2012		
Legal Land Location	SW SEC 16 TWP 21 RGE 1 W4M					Data Entry By	Marcia Chavez		
Longitude, Latitude	-110:05:40, 50:46:54					Data Entry Date	02-Aug-2012		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien		
Contract Main. Area	CMA22					Review Date	31-Jul-2012		
Clear Roadway/Skew	10.7 / 0 deg.					Dept. Reviewer Name	Andrew Smikles		
AADT/Year	570 / 2011 (A)					Dept. Review Date	07-Aug-2012		
Road Classification	RAU-210-110					Follow-Up By			
Detour Length (km)	11								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:						----> Primary Span			

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)												
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required.											
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)	No										
Remarks	Not required.										
Other Sign Types											

Utilities (Located at)									
Utility Attachments									
Telephone						Gas			
Power	3 line East fence line.					Municipal			
Others	Memorial @ SW ditch.					Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Hill to South 250m.
Vertical Alignment		7	7	
Roadway Width (m)	10.700			1.0m cover.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			Minor damage West rail, splintered post.
Guardrail		6	6	
Length (m)	46.000			
Current Standard (Y/N)	Yes			
Termination Type	Turned Down			
Drainage		8	8	
Approach Road General Rating		7	7	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : TP, 1 Spans, Lengths(m): 1.8, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface/Deck Top		6	6	Wearing surface thickness must be between 25 to 200 deep.		
(Material Type : ACP)						
(Plank Thickness(mm) : 25)						
(Plank Width(mm) :)						
Deck Rideability		7	7			
Wheel Guards		X	X			
(Curb Type :)						
(Type :)						
(Thickness(mm) :)						
(Width(mm) :)						
Bridge Rail		X	X			
(Type :)						
Bridge Rail Posts		X	X			
(Type :)						
Bridge Rail/Posts Coating		X	X			
(Type :)						
(No. of Stringers : 14)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Unkown depth. Fire has charred 1/2" off bottom. Laminated on edge.	
Last	0	0	0	0		
Now	0	0	0	0		
Stringers		5	5			
(Type : TREATED TIMBER)						
(Width(mm) : 150)						
(Depth(mm) :)						
(Spacing(mm) : 0)						
Sub Deck/Deck Underside		5	5	Burned by fire.		
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) :)						
(Plank Width(mm) : 150)						
Defects (Percent Area)		100				
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						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
(Total Number of Caps/Corbels : 1:1)				Timber charred, no apparent distress, adequate.				
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now	0	0	0				0	
Bearing Seats/Caps/Corbels			5				5	
(Type : TREATED TIMBER)								
(Depth(mm) : 300)								
(Width(mm) : 75)								
Backwalls/Breastwalls			5				5	
Greatest Height (m)		2.20						
Wingwalls			5	5				
(Total Number of Bearing Piles : 14:14)				Possibly timber box without piles. Verticals charred approx 3/4" deep - ok. Vertical 200 x 200, charred, solid. 3rd vert. from E along N abut, cracked.				
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now	0	0	0				0	
Piles			4				4	
Paint/Coating			X				X	
Abutment Stability			7				7	
Scour/Erosion			7				7	
Piers/Bents								
(Type :)								
(Total Number of Caps/Corbels :)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now								
Bearing Seats/Caps/Corbels			X	X				
(Type :)								
(Depth(mm) :)								
(Width(mm) :)								
(Total Number of Bearing Piles :)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now								
Pier Shaft/Piles			X	X				
Greatest Height (m)								
Bracing/Struts/Sheathing			X	X				
Nose Plate			X	X				
Paint/Coating			X	X				
(Colour Description :)								
(Colour Code :)								
Pier Stability			X	X				
Scour			X	X				

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	New fence and gates @ East, in use.
Traffic Safety Features		X	X	
Type	None			
Slope Protection		7	7	
(Type : NATURAL; NATURAL)				
Bank Stability		8	8	
Drainage		8	8	
Grade Separation General Rating		7	8	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
PATCH DECK							
REPLACE STRIP DECK							
REPLACE SUB DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Band 1 pile/vertical at A2.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	55.2/56.5	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	2007.05.21 remove or remediate the structure when convenient.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Jason Saly		Previous Assistant's Name				
Next Inspection Date	18-Apr-2014		Previous Inspection Date	30-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							