

Bridge Inspection							
Bridge File Number	09173 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1962/1962			Lot No.	1		
Bridge or Town Name	EMPRESS			Inspector Name	Jason Saly		
Located Over	EMPRESS CREEK, 3.1, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	562:02 C1 12.825			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	22-Nov-2010		
Legal Land Location	NE SEC 24 TWP 23 RGE 1 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-110:00:60, 50:58:20			Data Entry Date	07-Jan-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA22			Review Date	11-Dec-2010		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Chris Black		
AADT/Year	130 / 2009 (A)			Dept. Review Date	12-Jan-2011		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	20						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 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	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 Required								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)			
Utility Attachments			
Telephone	Plowed in S ditch		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Farm access east side.
Vertical Alignment		9	8	
Roadway Width (m)	10.000			
Approach Bump		8	7	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	15.240			
Current Standard (Y/N)	Yes			
Termination Type	TURN DOWN ENDS			
Drainage		7	N	Snow covered.
Approach Road General Rating		8	8	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 8.5-10.1-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.
Last	0	0	0	0	
Now	100.0	0.0	0.0	0.0	
Wearing Surface			5	N	(Cracking over abut. & piers. Cracks between units in asphalt - 5 per span. 29Jan2009).
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved Over
Deck Rideability			8	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			7	N	Snow covered.
Drains Clogged (Y/N)		No			
Curbs/Median			6	N	(Minor damage to S curb @ E pier and outside curb near E abut. 29Jan2009). Snow covered. Isolate spall outside of S curb S3.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Double layer flexbeam. (4th post from SW has 1 loose anchor nut. 29Jan2009). Snow covered.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	N	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	2	
Now	0	0	0	2	
Girders			3	3	Wide cracks or spalls in A-z of SP 3 - G2, G9 Others with wide cracks in A-z but in 1 leg only. 3 girders on centre span have spalls both legs @ midspan.
Last Complete Inspection Date		22-Nov-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 33)					
Span Alignment Problems					
Vertical (Y/N)		No			Longitudinal cracks dominate ratings.
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : :)						
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				7	7	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
Backwalls/Breastwalls			6	N		
Greatest Height (m)		1.00				
Wingwalls			7	7		
(Total Number of Bearing Piles : 0:0)				Buried		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	1	0	0	0		
Now	1	0	0	0		
Piles				N	N	
Paint/Coating			6	6		
Abutment Stability			8	8		
Scour/Erosion			8	6		
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : :)						
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				7	7	
(Type : CONCRETE)						
(Depth(mm) : 700)						
(Width(mm) : 600)						
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		3.10				
Bracing/Struts/Sheathing			7	7		
Nose Plate			X	X		
Paint/Coating			4	4		
(Colour Description : BLUE)						
(Colour Code : 15182)						
				Moderate to heavy corrosion 1M above waterline.		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		8	N	Snow/ice covered.
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	6	
Bank Stability		7	N	Snow covered.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	N	Snow covered.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Tighten 1 post anchor nut, if not done.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Paint lower 1m of piles.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	67.9/66.7	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action for r=3 girders.		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	22-Feb-2014		Previous Inspection Date	29-Jan-2009			
Inspection Cycle (Default) (months)	39						
Comment							