

Bridge Inspection									
Bridge File Number	01295 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1966/1966				Lot No.	1			
Bridge or Town Name	BALZAC				Inspector Name	Garry Roberts			
Located Over	WEST NOSE CREEK, 2.13.32.1, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	772:02 C1 1.548				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	26-Jul-2012			
Legal Land Location	NW SEC 12 TWP 26 RGE 2 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-114:09:52, 51:12:42				Data Entry Date	02-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA29				Review Date	07-Aug-2012			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	1,430 / 2011 (A)				Dept. Review Date	06-Sep-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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	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)	Yes								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	At West fence and North headslope.				Gas	Crosses HWY 15 m North.			
Power	West fence, also crosses HWY AT.				Municipal	North end of bridge.			
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Residential access at North end.				
Vertical Alignment			6	6					
Roadway Width (m)	8.800				ACP is rutted causing bump at NE approach.				
Approach Bump			4	4					
Guardrail (Y/N)	Yes				Incorrect lap at NE and SW T.D. ends				
Guardrail			5	5	Not thriebeam.				
Length (m)	11.400								
Current Standard (Y/N)	No								
Termination Type	TURN DOWN END								
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>HC, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number: )</b>						
<b>Special Features</b>						
Special Feature			X	ALTA. ENVIRONMENT Water survey at South pier - North side.		
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface			4	4	Cracks in ACP along some girder lines.  ACP does not extend to East curb- 0.3m short. SCP is approximately 230mm thick and heaved at NE.	
(Material Type : <b>ACP</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N	ACP covered.	
Deck Rideability			6	6		
Deck Joints			N	N	ACP covered.	
Bump (Y/N)		No				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			4	3	Exposed rebar and spalling at Sp.1-G11 and Sp.3-G11 interior curb faces.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		2				
Bridge Rail			7	7	Double layer.	
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )						
Bridge Rail Posts			7	7		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	14		
<b>Now</b>	0	0	4	11		
Girders			3	2	11 of 33 girders with wide cracks or spalls in AZ. Several others in one leg only. Sp.1- G6, G7, G10 and Sp.3- G10 all with spalls in AZ extending above top half of rebar. Open lift and connector pockets at Sp.1 G1, G2.	
Last Complete Inspection Date		26-Jul-2012				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		15				
Lift or Connector Pocket Grouted (Y/N)		No				
(Number Of Girders : <b>33</b> )						
<b>Span Alignment Problems</b>						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
<b>Superstructure General Rating</b>			<b>3</b>	<b>2</b>		

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1500)					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Bearing Seats/Caps/Corbels				6	5
(Type : TREATED TIMBER)					
(Depth(mm) : 356)					
(Width(mm) : 305)					
Backwalls/Breastwalls				7	7
Greatest Height (m)		1.20			
Wingwalls				7	7
(Total Number of Bearing Piles : 7:7)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	3	0	0	0	
Piles				6	6
Paint/Coating				X	X
Abutment Stability				6	6
Scour/Erosion				5	5
300mm deep erosion gullys- worst at A2.					
<b>Piers/Bents</b>					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	1	
Bearing Seats/Caps/Corbels				6	3
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 356)					
(Total Number of Bearing Piles : 9:9)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Pier Shaft/Piles				6	6
Greatest Height (m)		3.50			
Bracing/Struts/Sheathing				7	7
Nose Plate				7	7
Piers fully sheathed. Top West cap @ P2 starting to push into pile 3. Suspect rot and early stage of crushing.					
Only top 0.3m visible.					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	Corrosion at nose plates.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			2 old piles in channel.
<b>Substructure General Rating</b>		<b>6</b>	<b>3</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		5	6	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2012	Repair curb spalls- approx 3.5 m2.					
PATCH DECK	2012	Extend ACP to curb- repair heave at NE.					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS	2012	Replace girders.					
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2012	Core caps and piles.					
REPAIR/REPLACE TIMBER CAPS	2012	Replace caps after coring.					
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Grout lift and connector pockets (0.1 m3)					
OTHER ACTION	2012	Assess for replacement vs. repairs.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/27.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>66.8/57.9</b>	Est. Repl. Yr	2016	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	2 Notification of girders rated 2 and rotted cap, sent to at Tim Davies July 27/12.		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	26-Oct-2015		Previous Inspection Date	02-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							