

Bridge Inspection											
Bridge File Number	07183 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1958/1958				Lot No.	2					
Bridge or Town Name	FALUN				Inspector Name	Owen Salava					
Located Over	BATTLE RIVER, 5, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	792:06 C1 0.535				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	05-Feb-2013					
Legal Land Location	SW SEC 6 TWP 45 RGE 27 W4M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-113:55:19, 52:50:53				Data Entry Date	06-Mar-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien					
Contract Main. Area	CMA17				Review Date	13-Feb-2013					
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	Chris Black					
AADT/Year	70 / 2011 (A)				Dept. Review Date	14-Mar-2013					
Road Classification	RCU-208G-90				Follow-Up By						
Detour Length (km)	7										
Allowable Load (t):	Single	CS1 29 GIRDER			Semi	CS2 52 GIRDER			Train	CS3 74 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									
Hazard Marker At Bridge (Y/N)			Yes						
Remarks			SE damaged - bullet holes.						
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	West r/w.				Gas					
Power	1 wire O/H 10m South, crossing road.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			7	7	300m North of S.R. 611 on S.R. 792. Crest curve 150m South.					
Vertical Alignment			5	5						
Roadway Width (m)	7.000					(South approach gives appearance of becoming soft in spring. 04Mar2010).				
Approach Bump			5	6						
Guardrail (Y/N)			Yes			(Minor damage to SE, SW & NE guardrail, 2 sections W-beam & 3 TDE - photos.				
Guardrail			4	N	Insufficient length & posts.					
Length (m)	8.000					TDE are not buried on all corners. 04Aug2012) - Snow covered.				
Current Standard (Y/N)			No							
Termination Type			Turn Down							
Drainage			4	N	(Windrow build-up on all corners. 04Aug2012) - Snow covered.					
Approach Road General Rating			5	5						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Gravel & snow on deck.
Last	20	0	0	50	
Now	40.0	0.0	0.0	0.0	
Wearing Surface			X	7	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			3	N	New overlay.
Deck Rideability			3	7	
Deck Joints			4	N	Missing most buffer angles.
Bump (Y/N)		No			
Deck Drainage			7	7	Gravel spills btwn girder lines, but overlay should stop spillage.
Drains Clogged (Y/N)		No			
Curbs/Median			3	6	Minor grader scrape along 20%.
(Curb Type : Standard)					
Scaling (Percent Area)		20			
Bridge Rail			4	4	Single layer; 3 missing rail to post bolts.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			3	6	Posts have paint with surface rust - photo - 30% rusted, post coating rates 4.
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			4	7	
(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	
Girders			4	4	S3G4 has spalling one leg outside AZ. S2G4 has minor chip one leg. S2G4 has honeycomb & longit. cracks and diag. cracks associated with mishandling. Gravel accumulation to bottom of girders S1,3. S2G7,8 narrow shear cracks at N end. S3G4,5 spalls in AZ with sound concrete. S1G4 spalls in bearing area with sound concrete
Last Complete Inspection Date		05-Feb-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 27)					
Span Alignment Problems					
Vertical (Y/N)		Yes		Abuts are 50mm lower than piers due to improper installation of caps on abuts. Should have been 350 high, not 300 high.	
Horizontal (Y/N)		No			
Superstructure General Rating			4	4	

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Abutments									
(Extended Backwall Piles (Y/N) : Y)									
(Extended Backwall Piles Spacing(mm) : 1600)									
(Total Number of Caps/Corbels : 1:1)				Abut caps are not fully accessible due to build-up of gravel on hspls.					
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	1	0	0				0		
Now	1	0	0				0		
Bearing Seats/Caps/Corbels							6	6	
(Type : TREATED TIMBER)									
(Depth(mm) : 300)									
(Width(mm) : 300)									
Backwalls/Breastwalls			N				N	Blocked from view by gravel.	
Greatest Height (m)		1.00							
Wingwalls			4	4	Broken plank SE wingwall and NW has 1 plank dislodged; both are functioning ok. Damaged tin tops on SE piles.				
(Total Number of Bearing Piles : 0:0)									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last	100	0	0	0					
Now	100	0	0	0					
Piles				N	N	Only 3 piles are accessible due to gravel piles.			
Paint/Coating				X	X				
Abutment Stability			6	6					
Scour/Erosion			6	6					
Piers/Bents									
(Type : PIER-COLUMN)									
(Total Number of Caps/Corbels : 1:1)									
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				4	4	(Beginnings of rot along centre section of P2. 04Aug2012). No distortion, monitor, carry rating forward from 04Aig2012.			
(Type : TREATED TIMBER)									
(Depth(mm) : 300)									
(Width(mm) : 350)									
(Total Number of Bearing Piles : 6:6)									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last	0	0	0	0					
Now	0	0	0	0					
Pier Shaft/Piles				4	4	(Piles showing that water has gotten through creosote barrier. P1p3,6 & P2p1-3 beginnings of rot at waterline. 04Aug2012). P1p3 minor split. (Several piles with soft/wet fibres. 04Aug2012).			
Greatest Height (m)		3.10							
Bracing/Struts/Sheathing			4	4	Sway bracing split on both piers, 3 planks.				
Nose Plate			X	X					
Paint/Coating			X	X					
(Colour Description :)									
(Colour Code :)									

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		6	6	
Scour		6	6	
Debris (Y/N)	Yes			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install 3 rail/post bolts; paint posts or replace wotj reconditioned posts.					
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	2013	Replace 3 pile brace planks.					
OTHER ACTION	2013	Replace SE tintops.					
OTHER ACTION	2013	Replace 2 flexbeam & 3 TDE, guardrail, if not done.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	57.6/62.9	Est. Repl. Yr	2017	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girders, overlay may slow deterioration of legs. Monitor pier caps & pier piles.		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	Todd Warshawski		Previous Assistant's Name				
Next Inspection Date	05-May-2016		Previous Inspection Date	04-Aug-2012			
Inspection Cycle (Default) (months)	39						
Comment							