

Bridge Inspection							
Bridge File Number	00310 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1955/1955			Lot No.	2		
Bridge or Town Name	OLDS			Inspector Name	Owen Salava		
Located Over	DOGPOUND CREEK, 3.89.8, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	27:06 C1 21.286			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	23-Oct-2012		
Legal Land Location	SE SEC 4 TWP 33 RGE 3 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-114:21:43, 51:47:42			Data Entry Date	08-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA29			Review Date	29-Oct-2012		
Clear Roadway/Skew	8.5 / 30 deg. (RHF)			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	3,470 / 2011 (A)			Dept. Review Date	13-Nov-2012		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	7						
Allowable Load (t):	Single	CS1 37 GIRDER	Semi	CS2 48 GIRDER	Train	CS3 66 GIRDER	---> On Critical Spans --->Critical Member
Design Loading:	HS20						---> Primary Span

Posting Information								
Required Load Posting (t)			Single		Semi	49	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	Too low.
Other Sign Types	Narrow bridge.

Utilities (Located at)				
Utility Attachments				
Telephone	24m South of c/l.		Gas	39.4m West of West abutment & crossing.
Power	3 wires 22m North of c/l.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Approach at NW.
Vertical Alignment		7	7	
Roadway Width (m)	11.900			Not connected to parapet. Not thrie beam/insufficient posts.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	46.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		5	5	2 shallow gullies formed on each headslope.
Approach Road General Rating		7	7	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PJ, 3 Spans, Lengths(m): 13.4-18.9-13.4, A-Ident Number:)						
Special Features						
Special Feature			X	Hangers. Hanger @ S2 @ E @ N is repaired but has spall @ inside face. Various stress related cracks but none structural.		
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.	
Last	10	0	0	0		
Now	80.0	0.0	0.0	0.0		
Wearing Surface			5	5	Chipcoat on ACP, 60mm total thickness.	
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			6	6		
Deck Joints			4	4	Koch joint at P2 is cracked transversely and likely failed. A2 at SE has gap allowing drainage onto substructure - photo.	
Temperature (deg. C)		-7				
(Expansion Type :)						
(Fixed Type : THERMOPLASTIC POLYMER)						
Gap Size (mm)		Gap Location				
		West abutment				
		East abutment				
Deck Drainage			4	4	Retrofit drains under curbs. Minor gullies down hslp below abuts.	
Drains Clogged (Y/N)		No				
Curbs/Median			N	5		
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			4	4	7th panel from NW has 9 bent verticals and 1 broken weld.	
(Type : GALVANIZED STEEL VERTICAL BAR)						
Bridge Rail Posts			4	4	11 posts with cracks, 2 spalled exposing rusting rebar - photo.	
(Type : CONCRETE;CONCRETE)						
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	0		
Now	0	0	0	0		
Girders			5	4	Worst hangers @ E are patched. S2 E hanger is patched but cracked. S3G5 has spall on hinge seat. S2G1 spalled midspan.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 15)						
Diaphragms/Cross Frame			4	4	Diaphragms are scaled, especially @ East hangers.	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PJ, 3 Spans, Lengths(m): 13.4-18.9-13.4, A-Ident Number:)				
Bearings		5	5	Expansion @ A1 & A2. Fixed @ P1 & P2. Abutment bearings corroded.
Temperature (deg. C)	-7			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		5	5	
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		5	5	Erosion channels down slope from breastwalls.
Piers/Bents				
(Type : PIER-SOLID)				Concrete columns.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		5	5	Bank sloughing & slight scour D/S of piers.
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		5	5	Sloughing & scour starting just D/S of piers.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	6	2 minor gullies on each headslope.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2013	Patch rail post spalls 0.4m3 OH-V, if replacement not imminent. Straighten vertical & repair weld.								
GALVANIZE/PAINT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS										
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION	2013	Fill abut gullies 3m3 pitrun.								
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Set HMs to std.								
OTHER ACTION	2012	Patch girders, diaphragms & hangers.								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	47.6/47.8	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Bridge too narrow for HWY; will likely be rebuilt in replacement before condition does, hold off rehab maintenance until replacement.		Department Comments							
Maintenance Reviewed By	Date		Estimated Total	0						
Proposed Long-Term Strategy	2007.10.10 Final Design in Progress. Part of the Spot Program for 2012.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	23-Jul-2014	Previous Inspection Date	08-Feb-2011							
Inspection Cycle (Default) (months)	21									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Patch rail post spalls 0.4m3 OH-V, if replacement not imminent. Straighten vertical & repair weld.	Programmed	2013		
GALVANIZE/PAINT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION	2013	Fill abut gullies 3m3 pitrun.	Programmed	2013		
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2012	Set HMs to std.	To operations			
OTHER ACTION	2012	Patch girders, diaphragms & hangers.	Programmed	2013		
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	47.6/47.8	Est. Repl. Yr	2020	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Bridge too narrow for HWY; will likely be rebuilt in replacement before condition does, hold off rehab maintenance until replacement.		Department Comments	Current regional need year is 2014. Currently programmed for replacement for 2022.		
Maintenance Reviewed By	Andrew Smikles		Date	07-Jan-2013	Estimated Total	0
Proposed Long-Term Strategy	2007.10.10 Final Design in Progress. Part of the Spot Program for 2012.					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name			
Next Inspection Date	23-Jul-2014		Previous Inspection Date	08-Feb-2011		

Inspection Cycle (Default) (months)	21
Comment	