

Bridge Inspection										
Bridge File Number	74031 N-1 Bridge				Form Type	SG				
Year Built/Year Supstr	1985/1985				Lot No.	2				
Bridge or Town Name	ALDERSYDE				Inspector Name	Garry Roberts				
Located Over	SHEEP RIVER, 2.13.27.2, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	2:12 R1 17.124				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	27-Nov-2011				
Legal Land Location	NW SEC 19 TWP 20 RGE 28 W4M				Data Entry By	Alyssa Boynton				
Longitude, Latitude	-113:52:55, 50:42:46				Data Entry Date	16-Dec-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey				
Contract Main. Area	CMA27				Review Date	07-Dec-2011				
Clear Roadway/Skew	12.5 / 30 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	21,790 / 2010 (A)				Dept. Review Date	10-Jan-2012				
Road Classification	RFD-412.4-130				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	MS300						----> 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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	At SW only								
Other Sign Types	SHEEP RIVER AND INFO.								

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	@ EAST R/W				Gas					
Power	E SIDE, 3 WIRE 25m FROM CENTRE				Municipal					
Others	Fibre optics @ NE & SE				Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8	On grade to S.					
Vertical Alignment		7	7						
Roadway Width (m)	13.000								
Approach Bump		6	6						
Guardrail (Y/N)	Yes								
Guardrail		7	7						
Length (m)	60.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN ENDS								
Drainage		4	4	Undermining @ SW drain trough.					
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 4 Spans, Lengths(m): 32-38-38-32, A-Ident Number: A1001-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Chip coat on ACP 50mm total thickness.
Last	0	0	0	0	Transverse cracks, most sealed.
Now	0.0	0.0	0.0	0.0	
Wearing Surface		6	6	Rutting at outside lane 25mm deep	
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		3	3	BOTH JOINTS BANG but no visible broken walls.	
Temperature (deg. C)		-3		East lane plate at North abut is loose and minor spalls at paving lips.	
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
80		S. abut			
65		N. abut			
Deck Drainage		6	6	No drain on deck, on grade, all water drains to south end.	
Drains Clogged (Y/N)		No			
Curbs/Median		6	6	Minor light scaling. Vertical cracks 0.3mm wide. Stains & cracks at a/b's-all sealed	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail		6	6	- 2 rails bent 25mm @ east A few grout pad spalls	
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	4	A/B nuts with insufficient thread 1 back A/B nut not tightened- 15th from SE	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	5	Galv.	
(Type :)					
Sidewalk		X	X		
Girder/Beam					
Cover Plate		X	X		
Flange		8	8		
Web		8	8		
Stiffeners		8	8		
Splice		8	8		
Weld		8	8		
Diaphragms/Cross Frame		8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans, Lengths(m): 32-38-38-32, A-Ident Number: A1001-01)				
Paint Condition		X	X	Weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		5	5	North abut brgs bending A/B's 40mm. 55mm exp remaining at this inspection. Slight debonding of stainless steel slider at Abut. 1- G1 and G7
Temperature (deg. C)	-3			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : ROCKER BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Efflorescence at transverse cracks at exterior.
Stains (Percent Area)	1			
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				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		6	7	
Scour/Erosion		8	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				1 mm wide crack @ north
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Minor peeling at piers Pigmented sealer
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	7	
Debris (Y/N)	Yes			Minor drift at P2.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	5	
HWM (m below Top of Curb)	5.0			No visible HWM Minor drift at P2.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(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	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	check and weld broken fingers at both abut. joints - Repair loose plate at north abut.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Patch & Fill in void @ SW trough drain- 2m3 pit run					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/66.7	Sufficiency Rating (Last/Now) (%)	59.0/61.4	Est. Repl. Yr	2048	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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	27-Aug-2013		Previous Inspection Date	10-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							