

Bridge Culvert Inspection												
Bridge File Number	84517 -1 Bridge Culvert					Form Type	CUL1					
Year Built	2003					Lot No.	4					
Bridge or Town Name						Inspector Name	Garry Roberts					
Located Over	TRAIL-PED, Golf Path					Inspector Class	BR CLS A					
Located On	533:04 C1 1.030					Assistant Name						
Water Body Cl./Year						Assistant Class						
Navigabil. Cl./Year						Inspection Date	22-May-2010					
Legal Land Location	NE SEC 15 TWP 16 RGE 28 W4M					Data Entry By	Erin Roberts					
Longitude, Latitude	-113:45:54, 50:21:13					Data Entry Date	15-Jul-2010					
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey					
Contract Main. Area	CMA27					Review Date	02-Jun-2010					
Clear Roadway/Skew	9 /					Dept. Reviewer Name	Lorenz Bohnert					
AADT/Year	1,010 / 2009 (A)					Dept. Review Date	23-Jul-2010					
Road Classification	RCU-209-110					Follow-Up By						
Detour Length (km)	3											
Bridge Culvert Information												
Number of Culverts	1											
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape				
1	MAIN	4200	2100	SCA	18	380X140	3.0	ARCH				
Special Features												
Special Features Comment												
Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)	No											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required											
Utilities (Located at)												
Utility Attachments												
Telephone						Gas						
Power						Municipal						
Others						Problem (Y/N)	No					
Remarks												
Approach Road / Embankment												
			Last	Now	Explanation of Condition							
Horizontal Alignment			8	7	Hill to East							
Vertical Alignment			5	5	Nanton Golf Club Pedway & Golf Car / Maintenance vehicle Road							
Roadway Width (m)	9.000											
Embankment			7	7								
Sideslope (__:1)	6.0											
(Height of Cover(m) : 1)												
Guardrail (Y/N)	Yes											
Approach Road / Embankment General Rating			5	5								
Upstream End												
Culvert Component			Last	Now	Explanation of Condition							
Direction			N		Masonry Block							
End Treatment (Concrete, Steel, Others, None)	OTHERS											
Headwall			8	8								

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		8	8	90% masonry Block
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		X	X	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4200, Rise (mm): 2100, Type: SCA)				
Barrel Last Accessible Date	22-May-2010			
Special Features				
Special Feature				Pedestrian Safety Rail Minor Corrosion
(Type :)				
Special Feature				
(Type :)				
Roof		9	8	Roof to ACP SuperCor arch
Measured Rise (mm)	2100			
Measured At Ring No.	15			
Sag (mm)	0			
Percent Sag				
Sidewall		9	8	
Measured Span (mm)	4200			
Measured At Ring No.	15			
Deflection (mm)	0			
Percent Deflection				
Floor		N	8	ACP Roadway
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		9	8	
Separation (mm)	0			
Longitudinal Seams		9	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4200, Rise (mm): 2100, Type: SCA)				
Coating		9	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		Masonry block
End Treatment (Concrete, Steel, Others, None)	OTHERS			
Headwall		6	7	sagging 30mm
Collar		X	X	
Wingwalls		8	8	90% masonry blocks
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		X	X	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
Downstream End General Rating		6	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	6m ACP road @ 90 deg
Roadway Surface		9	8	
(Type : ACP)				
Icing (Y/N)	No			
Traffic Safety Features		9	7	Mirror @ North
Type	mirror			

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		9	7	
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	100.0/88.9	Sufficiency Rating (Last/Now) (%)	92.5/88.2	Est. Repl. Yr	2040	Maint. Req. (Y/N)	No
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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	22-Aug-2013		Previous Inspection Date	04-Dec-2006			
Inspection Cycle (Default) (months)	39						
Comment							