

Bridge Culvert Inspection												
Bridge File Number	73887 -1 Bridge Culvert					Form Type	CULE					
Year Built	1952					Lot No.	3					
Bridge or Town Name	ROSEMARY					Inspector Name	Jon Davies					
Located Over	TRAIL-ANIMAL, OVER SP					Inspector Class	BR CLS B					
Located On	1:16 R1 48.635;1:16 L1 48.605					Assistant Name						
Water Body Cl./Year						Assistant Class						
Navigabil. Cl./Year						Inspection Date	05-Feb-2012					
Legal Land Location	NW SEC 31 TWP 19 RGE 15 W4M					Data Entry By	Anne Roberts					
Longitude, Latitude	-112:04:18, 50:39:10					Data Entry Date	11-Mar-2012					
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts					
Contract Main. Area	CMA23					Review Date	12-Feb-2012					
Clear Roadway/Skew	25.6 /					Dept. Reviewer Name	Tim Davies					
AADT/Year	6,860 / 2010 (A)					Dept. Review Date	22-Mar-2012					
Road Classification	RFD-412.4-130					Follow-Up By						
Detour Length (km)	1											
Bridge Culvert Information												
Number of Culverts	1											
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape				
1	MAIN	1980	1980	BP	14.6			RECTANGLE				
1	D/S	2560	2310	RPE	48.8			ELLIPSE				
Special Features												
Special Features Comment												
Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)												
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	North ROW					Gas	Crossing 100 m East					
Power	1 line S side 30m FROM C.L.					Municipal						
Others	Fibre optic North ROW					Problem (Y/N)	No					
Remarks												
Approach Road / Embankment												
			Last	Now	Explanation of Condition							
Horizontal Alignment			8	8	Farm access to east. 80 m							
Vertical Alignment			9	7								
Roadway Width (m)	25.600											
Embankment			8	5	Road is within 1 m at South							
Sideslope (___:1)	4.0				Height of cover at South is 0.5 m							
(Height of Cover(m) : 1.6)												
Guardrail (Y/N)	Yes											
Approach Road / Embankment General Rating			8	8								
Upstream End												
Culvert Component			Last	Now	Explanation of Condition							
Direction					5North							
End Treatment (Concrete, Steel, Others, None)	STEEL											
Headwall			X	X								

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	Roof dented from heavy equipment
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP)				
Barrel Last Accessible Date	05-Feb-2012			Concrete box
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)				Estimate
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		7	6	
Measured Span (mm)	1980			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	200 mm GRAVEL
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		X	X	
Separation (mm)	0			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	Also handles drainage
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	6	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): 2560, Rise (mm): 2310, Type: RPE)				
Barrel Last Accessible Date	05-Feb-2012			SPCSP
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Est. Longitudinal seams at C/L
Measured Rise (mm)	2286			
Measured At Ring No.	8			
Sag (mm)	24			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	2611			
Measured At Ring No.	5			
Deflection (mm)	51			
Percent Deflection	2			
Floor		N	N	200 mm GRAVEL
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
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)	No			
Longitudinal Stagger (Y/N)	No			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): 2560, Rise (mm): 2310, Type: RPE)					
Coating		5	5	Some stains @ roof seams, rust on top of bevel on side slopes. Rust spots at roof D/S with minor section loss.	
Corrosion By Soil (Y/N)	Yes				
Corrosion By Water (Y/N)	Yes				
Camber POS/ZERO/NEG	ZERO				
Ponding (Y/N)	No				
Fish Passage Adequacy		X	X		
Baffle		X	X		
(Type :)					
Waterway Adequacy		7	7	Also handles drainage	
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel Extension General Rating		7	7		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction				South	
End Treatment (Concrete, Steel, Others, None)	CONCRETE				
Headwall		6	4	Spalling	
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		5	5	medium cracks in concrete bevel	
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	200				
Scour Protection		7	7		
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		7	7		
Beavers (Y/N)	No				
Downstream End General Rating		5	4		
Structure Usage					
		Last	Now	Explanation of Condition	
Grade Separation					
Road Alignment		X	X		
Roadway Surface		7	7		
(Type :)					
Icing (Y/N)	No				
Traffic Safety Features		X	X		
Type					

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		5	5	
Structure In Use (Y/N)	Yes			150 mm water pipe at West side floor, full length
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	2012	Repair South headwall, approx. 0.15 m2					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/66.7	Sufficiency Rating (Last/Now) (%)	70.8/64.8	Est. Repl. Yr	2030	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	05-Nov-2013		Previous Inspection Date	15-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							