

Bridge Culvert Inspection				
Bridge File Number	79131 -1 Bridge Culvert		Form Type	CUL1
Year Built	1979		Lot No.	3
Bridge or Town Name	CALGARY		Inspector Name	Garry Roberts
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	8:06 C1 2.810		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	30-May-2012
Legal Land Location	SE SEC 12 TWP 24 RGE 4 W5M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-114:25:36, 51:01:24		Data Entry Date	27-Jun-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Ash Morjaria
Contract Main. Area	CMA27		Review Date	18-Jun-2012
Clear Roadway/Skew	13 /		Dept. Reviewer Name	Tim Davies
AADT/Year	7,900 / 2011 (A)		Dept. Review Date	29-Jun-2012
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	15			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2300	2100	MPE	30	75X25	2.8	ELLIPSE
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	IN SOUTH & NORTH DITCH.					Gas						
Power	23 m NORTH OF C.L. - 5 WIRE and South					Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Int 250mm E farm ent W side of culvert Hill @ E NO PASSING EB.
Vertical Alignment		6	6	
Roadway Width (m)	13.000			
Embankment		5	5	Guard rail at NW. Collision damage 3 posts and 2 sections
Sideslope (__:1)	4.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		NORTH.
End Treatment (Concrete, Steel, Others, None)	NONE			
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		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2300, Rise (mm): 2100, Type: MPE)				
Barrel Last Accessible Date	30-May-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	estimate
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	80			
Percent Sag	4			
Sidewall		5	5	Longitudinal kinking at midpoint of both sidewall in ring 1,2,4,5
Measured Span (mm)	2390			
Measured At Ring No.	4			
Deflection (mm)	90			
Percent Deflection	4			
Floor		N	N	200 mm DIRT ON FLOOR & water
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		5	5	30 mm vertical MISALIGNMENT OF PIPES @ SEAM #4
Separation (mm)	80			
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): 2300, Rise (mm): 2100, Type: MPE)					
Coating		6	6	END OF PIPE IS RUSTING @ TOP OF ROOF @ NORTH & S	
Corrosion By Soil (Y/N)	Yes				
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		7	7		
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating		5	5		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		S		SOUTH	
End Treatment (Concrete, Steel, Others, None)	NONE				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		X	X		
Heaving (mm)					
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	150				
Scour Protection		6	6		
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		6	6		
Beavers (Y/N)	No				
Downstream End General Rating		6	6		
Structure Usage					
		Last	Now	Explanation of Condition	
Grade Separation					
Road Alignment		X	X		
Roadway Surface		7	5		
(Type : SOIL)					
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		4	4	Holds 150mm water in ruts
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		4	4	

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	Replace 2 West beam sections and 3 TT posts at NW					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	65.2/59.1	Est. Repl. Yr	2023	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	28-Feb-2014		Previous Inspection Date	23-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							