

Bridge Culvert Inspection				
Bridge File Number	76901 -1 Bridge Culvert		Form Type	CUL1
Year Built	1983		Lot No.	4
Bridge or Town Name	CROSSFIELD		Inspector Name	Owen Salava
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	2A:12 C1 1.926		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	26-Oct-2011
Legal Land Location	SE SEC 23 TWP 29 RGE 1 W5M		Data Entry By	Marcia Chavez
Longitude, Latitude	-114:01:40, 51:29:29		Data Entry Date	30-Nov-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA29		Review Date	14-Nov-2011
Clear Roadway/Skew	11.6 / 0 deg.		Dept. Reviewer Name	Andrew Smikles
AADT/Year	4,290 / 2010 (A)		Dept. Review Date	02-Dec-2011
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2200	MP	26	125X26	2.8,2.8,2.8	ROUND
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	West r/w.					Gas						
Power						Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curves North and South. 14mm transverse crack full width, 5m South of culvert.
Vertical Alignment		8	8	
Roadway Width (m)	11.600			
Embankment		7	7	
Sideslope (___:1)	4.0			
(Height of Cover(m) : 0.8)				
Guardrail (Y/N)	Yes			Holes at edge of pavement from previous guardrail posts not filled @ SW corner.
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
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)	0			
Invert Above/Below Stream Bed	BELOW			4 x 8 plywood sheet in entrance.
Above/Below (mm)	75			
Scour Protection		N	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	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): , Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	26-Oct-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	5	Est roof 2180, 0.9% roof. Local 200mm distortion @ last ring @ roof D/S from construction.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	20			
Percent Sag				
Sidewall		7	7	
Measured Span (mm)	2180			
Measured At Ring No.	3			
Deflection (mm)	20			
Percent Deflection	1			
Floor		N	N	100mm silt cover.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	At ring 5-6.
Separation (mm)	55			
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): , Rise (mm): 2200, Type: MP)					
Coating		4	4	Moderate corrosion with pitting, some scaling in haunch.	
Corrosion By Soil (Y/N)	No				
Corrosion By Water (Y/N)	Yes				
Camber POS/ZERO/NEG	NEG				
Ponding (Y/N)	No				
Fish Passage Adequacy		X	X		
Baffle		X	X		
(Type :)					
Waterway Adequacy		7	7	Takes water east to west.	
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		W			
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	Stock rail across bevel.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	100				
Scour Protection		N	7		
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 250)					
Scour/Erosion		N	7		
Beavers (Y/N)	No				
Downstream End General Rating		7	7		
Structure Usage					
		Last	Now	Explanation of Condition	
Grade Separation					
Road Alignment		8	8	Pasture both ends.	
Roadway Surface		7	7		
(Type : CONCRETE)					
Icing (Y/N)	No			All but 2m covered in 100mm silt.	
Traffic Safety Features		X	X		
Type					

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

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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	63.5/63.5	Est. Repl. Yr	2023	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2006.10.24 Have executed cattlepass removal form. Can place this structure on list for removal.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	26-Jul-2013		Previous Inspection Date	08-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							