

Bridge Culvert Inspection				
Bridge File Number	74607 -1 Bridge Culvert		Form Type	CUL1
Year Built	1957		Lot No.	4
Bridge or Town Name	MORLEY		Inspector Name	Garry Roberts
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	1:06 R1 5.698;1:06 L1 5.686		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	15-Sep-2010
Legal Land Location	NE SEC 8 TWP 25 RGE 5 W5M		Data Entry By	Erin Roberts
Longitude, Latitude	-114:39:47, 51:07:08		Data Entry Date	08-Oct-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	CMA28		Review Date	21-Sep-2010
Clear Roadway/Skew	24.5 /		Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	17,820 / 2009 (A)		Dept. Review Date	12-Oct-2010
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)	1			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2430	2430	BPR	59.9			RECTANGLE
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)		Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Not Required									

Utilities (Located at)			
Utility Attachments			
Telephone	South and north ditch		Gas
Power			Municipal
Others	Fibre Optics Cable, N ditch		Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Gradual sag curve to E limited sight distance to the W
Vertical Alignment		6	6	
Roadway Width (m)	24.500			
Embankment		7	7	
Sideslope (___:1)	3.5			
(Height of Cover(m) : 0.8)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				North end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Light scaling
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		5	5	Wingwalls seperating from barrel - 10mm E & W Has been previously patched
Cutoff Wall		N	X	
Bevel End		N	X	
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	10			
Scour Protection (Type :) (Avg. Rock Size(mm) :)		X	X	
Scour/Erosion		X	X	
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): 2430, Rise (mm): 2430, Type: BPR)				
Barrel Last Accessible Date				
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		5	6	LIGHT SCALING, CORROSION STAINS @ U/S Narrow Transverse cracks Scaling @ Median
Measured Rise (mm)	2430			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		6	6	Driven h-piles at both walls of South barrel
Measured Span (mm)	2430			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		5	5	Longitudinal wide cracks & occasional transverse wide crack.
Bulge (mm)	0			
Measured At Ring No.				30mm floor settlement - 3m S of CL @ E
Abrasion (Y/N)	No			
Circumferential Seams		5	5	
Separation (mm)	6			
Longitudinal Seams		X	X	
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)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2430, Rise (mm): 2430, Type: BPR)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	6	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				South.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	
Collar		X	X	
Wingwalls		7	5	Minor heaving breaking off at the piling. - both sides
(Shape :)				
Cutoff Wall		N	X	
Bevel End		4	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		X	X	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
Downstream End General Rating		4	5	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	X	
Roadway Surface		X	6	
(Type :)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
Lighting		X	X	
Barrel Leakage (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		5	5	700mm ditch CSP located 3.5m S of d/s end
Structure In Use (Y/N)	No			GUIDE FENCING DOWN @ SOUTH
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) (%)	55.6/66.7	Sufficiency Rating (Last/Now) (%)	65.0/71.5	Est. Repl. Yr	2025	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	Glen Mikesh		Previous Assistant's Name				
Next Inspection Date	15-Jun-2012		Previous Inspection Date	14-Aug-2008			
Inspection Cycle (Default) (months)	21						
Comment							