

Bridge Culvert Inspection			
Bridge File Number	70047 -2 Bridge Culvert	Form Type	CUL1
Year Built	2011	Lot No.	4
Bridge or Town Name	CAYLEY	Inspector Name	Tim Davies
Located Over	TRIBUTARY TO MOSQUITO CREEK, 2.12.12.12.6, WATERCRS-ST	Inspector Class	BR CLS B
Located On	2:10 L1 32.093;2:10 R1 32.143	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	13-Dec-2011
Legal Land Location	SE SEC 7 TWP 17 RGE 28 W4M	Data Entry By	Anne Roberts
Longitude, Latitude	-113:49:41, 50:24:43	Data Entry Date	31-Jan-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA27	Review Date	28-Jan-2012
Clear Roadway/Skew	22 / -45 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year		Dept. Review Date	06-Feb-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	Pl./Slab Thickness	Shape
1	MAIN	-	2400	MP	112.3	125X26	3.5	ROUND
Special Features	STORM WATER DRAIN							
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	West ROW	Gas	Sour gas crossing 20m North	
Power	Overhead and West ROW	Municipal		
Others	Fibre optics West and East ROW	Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	9	Curve to South 250m
Vertical Alignment		6	9	Hill to South 300m
Roadway Width (m)	22.000			
Embankment		9	9	3:1 at West 5:1 to level at pipe at East
Sideslope (__:1)	4.0			
(Height of Cover(m) : 2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	9	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		West end
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		9	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Upstream End General Rating		9	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2400, Type: MP)				
Barrel Last Accessible Date	13-Dec-2011			
Special Features				
Special Feature		9	9	At R4
(Type : STORM WATER DRAIN)				
Special Feature				
(Type :)				
Roof		8	8	Minor constructions dents
Measured Rise (mm)	2446			Upward
Measured At Ring No.	5			
Sag (mm)	46			
Percent Sag	2			
Sidewall		8	8	Minor construction dents
Measured Span (mm)	2368			Inward
Measured At Ring No.	5			
Deflection (mm)	32			
Percent Deflection	1			
Floor		9	9	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
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)				
Coating		9	9	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2400, Type: MP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	
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		E		East End
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		9	9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
Downstream End General Rating		9	9	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Channel curves 90 degrees North at West
Bank Stability		7	8	Channel not well defined at West
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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) (%)	97.9/91.3	Est. Repl. Yr	2061	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	Jon Davies		Previous Assistant's Name				
Next Inspection Date	13-Sep-2013		Previous Inspection Date	18-Oct-2011			
Inspection Cycle (Default) (months)	21						
Comment							