

Bridge Culvert Inspection			
Bridge File Number	78714 -1 Bridge Culvert	Form Type	CUL1
Year Built	1981	Lot No.	4
Bridge or Town Name	BRAGG CREEK	Inspector Name	Calvin Roberts
Located Over	MCLEAN CREEK, 2.13.33.15, WATERCRS-ST	Inspector Class	BR CLS B
Located On	66:04 C1 6.857	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	04-Apr-2013
Legal Land Location	NE SEC 30 TWP 22 RGE 5 W5M	Data Entry By	Lauren Korte
Longitude, Latitude	-114:40:17, 50:54:10	Data Entry Date	11-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA27	Review Date	13-Apr-2013
Clear Roadway/Skew	14 / -9 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	1,580 / 2012 (A)	Dept. Review Date	06-May-2013
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	999		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3650	SP	63.4	152X51	4.0,3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Located at South side.	Gas	
Power		Municipal	Sewage effluent pipe line @ South.
Others	Fibre Optic @ North & South.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Turning lane on South side. - Access to Mclean creek campground.
Vertical Alignment		5	5	
Roadway Width (m)	14.000			
Embankment		4	4	Erosion @ SW side of u/s bevel.
Sideslope (__:1)	2.0			
(Height of Cover(m) : 8.5)				
Guardrail (Y/N)	Yes			Rail 1 bolt not attached at corner of entrance to McLean Rec. Area at SW.
Approach Road / Embankment General Rating		5	5	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		South.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		5	5	Double collar.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	5	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		4	4	2 small perforations in East side of bevel floor minor- not corrosion.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		4	5	Additional rip rap @ u/s. 600mm size - to East of inlet.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	5	Rip rap and geotextile sloughed into streambed at West.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 3650 , Type: SP)				
Barrel Last Accessible Date	03-Apr-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	5	Most deformation at U/S and D/S ends. Est.
Measured Rise (mm)	3460			
Measured At Ring No.	2			
Sag (mm)	190			
Percent Sag	7			
Sidewall		5	5	
Measured Span (mm)	3840			
Measured At Ring No.	2			
Deflection (mm)	190			
Percent Deflection	7			
Floor		4	4	Floor seams near inlet appear cusping inwards. Minor. Estimated bulge measurement.
Bulge (mm)	100			
Measured At Ring No.	2			
Abrasion (Y/N)	Yes			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		6	6	(Centerline leakage may be a spring (Spring at West side D/S wall at bottom at 7:00. Leakage through bolt holes)) 10-Oct-2007
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)	Yes			
Coating		4	4	Efflorescence superficial rust along floor at bolt holes.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
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): 3650, Type: SP)				
Fish Passage Adequacy		7	7	(FISH IN STREAM) 20000622
Baffle		6	6	
(Type : SPOILER)				
Waterway Adequacy		8	8	
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		N		North.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	Projects from fill average. 500 mm.
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		4	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	4	15m x 30m x 3m deep scour hole - rock lined. Additional rip rap placed - much of rock has washed D/S.
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		4	4	90 degree turn into u/s end. Right turn d/s.
Bank Stability		4	4	Cutting of banks at NW d/s end & u/s end SW. Flood erosion of SW Bank of channel
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			@ D/S.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	58.5/58.5	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							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	04-Jan-2015		Previous Inspection Date	02-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							