

Bridge Culvert Inspection				
Bridge File Number	09764 -1 Bridge Culvert		Form Type	CUL1
Year Built	1971		Lot No.	1
Bridge or Town Name	OLDS		Inspector Name	Owen Salava
Located Over	TRAIL CREEK, 3.89.4, WATERCRS-ST		Inspector Class	BR CLS A
Located On	27:06 C1 27.487		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	23-Oct-2012
Legal Land Location	NW SEC 31 TWP 32 RGE 2 W5M		Data Entry By	Marcia Chavez
Longitude, Latitude	-114:16:24, 51:47:41		Data Entry Date	15-Nov-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA29		Review Date	29-Oct-2012
Clear Roadway/Skew	11 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	4,400 / 2011 (A)		Dept. Review Date	19-Nov-2012
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	6			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1524	MP	40.8	68X13	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	North fence line.	Gas	
Power	Crosses road 20 m East & North r/w.	Municipal	
Others	Main transmission lines to East.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	Local road intersection 60m West. On superelevated curve. Hills both directions. Limited sight distance. No passing WB.
Vertical Alignment	6	6	
Roadway Width (m)	11.000		5.0 m benches both sides.
Embankment	7	7	
Sideslope (_ :1)	4.0		
(Height of Cover(m) : 2.1)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		
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		N	N	(Bevel chopped off. 29Sep2009). Snow covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		N	N	Snow covered.
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	(Scour around pipe end. 29Sep2009).
Beavers (Y/N)	No			
Upstream End General Rating		2	2	GR carried forward from 29Sep2009.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1524, Type: MP)				
Barrel Last Accessible Date				Not accessible; viewed from both ends, water 0.8 - 1.3m deep.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	(Est rise 1470, 2% def. 03/11/18).
Measured Rise (mm)	1470			
Measured At Ring No.				
Sag (mm)	54			(3.5%. 18Nov2003).
Percent Sag	4			
Sidewall		N	N	(2003/11/18)
Measured Span (mm)	1530			
Measured At Ring No.				
Deflection (mm)	6			(0.4%. 18Nov2003).
Percent Deflection	2			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	30			
Longitudinal Seams		X	N	
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		N	N	(Scaling corrosion with some pitting @ sidewalls. 03/11/18). Corrosion/pitting to roof.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			Pipe submerged most of the time.

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1524, Type: MP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	Slow flow to north.
Icing (Y/N)	No			(03/11/18) Unknown this inspection.
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	Snow covered/under water.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			(2003/11/18)
Above/Below (mm)	500			
Scour Protection		N	N	(Sparse riprap. 29Sep2009). Snow covered.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		5	5	GR carried forward from unknown date.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	Large sloughs on both sides.
HWM (m below Top of Culvert)	0.0			(29Sep2009)
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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	2013	Dewater & perform Level II next inspection.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	48.1/48.2	Est. Repl. Yr	2018	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection	(No action with u/s bevel. 20Sep2009). Revisd sag & deflection based on imperial size CSP. The barrel may have been accessed in 2003, so it is about 108mths or 5 cycles since barrel accessed (maybe more).		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	Owen Salava	Previous Assistant's Name					
Next Inspection Date	23-Jul-2014	Previous Inspection Date	07-Feb-2011				
Inspection Cycle (Default) (months)	21						
Comment							