

Bridge Culvert Inspection				
Bridge File Number	74680 -1 Bridge Culvert		Form Type	CUL1
Year Built	1957		Lot No.	1
Bridge or Town Name	DIDSBURY		Inspector Name	Owen Salava
Located Over	TRIBUTARY TO DEADRICK CREEK, 3.33.24.1, WATERCRS-ST		Inspector Class	BR CLS A
Located On	582:02 C1 33.070		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	10-Aug-2011
Legal Land Location	SW SEC 23 TWP 31 RGE 1 W5M		Data Entry By	Marcia Chavez
Longitude, Latitude	-114:02:33, 51:39:50		Data Entry Date	16-Sep-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA29		Review Date	15-Aug-2011
Clear Roadway/Skew	9 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	3,140 / 2010 (A)		Dept. Review Date	19-Sep-2011
Road Classification	RCU-209-110		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	2134	1549	RPP	30.5	152X51	3.0	PIPE ARCH
Special Features	VERT TIMBER STRUTS							
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	North ditch to South ditch.	Gas	
Power	2 wire @ South fence.	Municipal	
Others	Fibre optics @ North r/w.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	In sag with crests both directions.
Vertical Alignment		6	6	
Roadway Width (m)	9.200			Some cracks in ACP to either side of pipe - photo.
Embankment		8	8	
Sideslope (:1)	3.0			
(Height of Cover(m) : 2.7)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	5	Well grown over.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	5	
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): 2134, Rise (mm): 1549, Type: RPP)				
Barrel Last Accessible Date	10-Aug-2011			
Special Features				
Special Feature		7	7	
(Type : VERT TIMBER STRUTS)				
Special Feature				
(Type :)				
Roof		3	3	
Measured Rise (mm)	1390			
Measured At Ring No.	7			
Sag (mm)	159			
Percent Sag	10			
Sidewall		2	2	Buckled corrugation @ E sidewall R6-7. Cracked W longit. sidewall seams R3-9.
Measured Span (mm)	2235			
Measured At Ring No.	7			
Deflection (mm)	101			
Percent Deflection	4			
Floor		7	7	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		2	2	Minimum remaining steel is 37mm section 3 - photo. Rings numbered North to South.
Total No. of Cracked Rings	7			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	37			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
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): 2134, Rise (mm): 1549, Type: RPP)				
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	G.R. raised to "4" due to struts in good condition.
Downstream 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	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	Well grown over.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	Low wide channel.
Bank Stability		8	8	
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		8	8	

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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	58.0/58.0	Est. Repl. Yr	2016	Maint. Req. (Y/N)	No			
Special Comments for Next Inspection	LRA issued to AT 15Aug2011. Monitor condition on regular cycle; replace when warranted.		Department Comments							
Maintenance Reviewed By		Date		Estimated Total	0					
Proposed Long-Term Strategy	2007.04.12 Observe normal BIM. Replace in 2020 or with road improvements.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam	Previous Assistant's Name								
Next Inspection Date	10-Nov-2014	Previous Inspection Date	23-Sep-2009							
Inspection Cycle (Default) (months)	39									
Comment										

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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	58.0/58.0	Est. Repl. Yr	2016	Maint. Req. (Y/N) No
Special Comments for Next Inspection	LRA issued to AT 15Aug2011. Monitor condition on regular cycle; replace when warranted.		Department Comments	Tentatively programmed to be replaced in 2021. AS		
Maintenance Reviewed By	Andrew Smikles	Date	22-Aug-2012	Estimated Total	0	
Proposed Long-Term Strategy	2007.04.12 Observe normal BIM. Replace in 2020 or with road improvements.					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Dave Lam	Previous Assistant's Name				
Next Inspection Date	10-Nov-2014	Previous Inspection Date	23-Sep-2009			
Inspection Cycle (Default) (months)	39					
Comment						