

Bridge Culvert Inspection			
Bridge File Number	72652 -1 Bridge Culvert	Form Type	CUL1
Year Built	1984	Lot No.	4
Bridge or Town Name	DIDSBURY	Inspector Name	Owen Salava
Located Over	ROSEBUD RIVER, 3.33, WATERCRS-ST	Inspector Class	BR CLS A
Located On	2A:12 C1 21.659	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	26-Oct-2011
Legal Land Location	SE SEC 17 TWP 31 RGE 1 W5M	Data Entry By	Marcia Chavez
Longitude, Latitude	-114:05:48, 51:39:22	Data Entry Date	29-Nov-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA29	Review Date	14-Nov-2011
Clear Roadway/Skew	12.4 / 0 deg.	Dept. Reviewer Name	Andrew Smikles
AADT/Year	3,420 / 2010 (A)	Dept. Review Date	02-Dec-2011
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	9		

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	7012	4478	RPE	54.3	152X51	5.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	West ditch.	Gas	
Power	3 wire 30m North and East. 3 wire 150m West.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Entrance 20m south to Didsbury. Deceleration lane. Rise to North.
Vertical Alignment		7	7	
Roadway Width (m)	12.400			
Embankment		8	8	
Sideslope (_ :1)	3.0			
(Height of Cover(m) : 4.4)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	Under water.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	Water flowing around island of silt.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 7012, Rise (mm): 4478, Type: RPE)				
Barrel Last Accessible Date	08-Feb-2010			1.0m water in barrel; viewed from ends, shape looks good.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	(50mm deformations @ 2nd ring from D/S, from construction. Unable to measure rise due to ice. 08Feb2010).
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	134			
Percent Sag				
Sidewall		8	N	(Est roof sag of 3%. 08Feb2010).
Measured Span (mm)	7127			
Measured At Ring No.	6			
Deflection (mm)	115			
Percent Deflection	2			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	N	
Separation (mm)	0			
Longitudinal Seams		8	N	(Only top sidewall seam has no stagger. All other sidewall seams have 3N stagger. 08Feb2010).
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		7	N	Soil-side staining visible from ends.
Corrosion By Soil (Y/N)	Yes			
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): 7012, Rise (mm): 4478, Type: RPE)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	GR was 7 from 08Feb2010.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	Under water.
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	8	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	90 degree cut bank @ 100m upstream. Drainage pipe 30m to SW.
Bank Stability		6	6	
HWM (m below Top of Culvert)	1.6			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	79.4/67.4	Est. Repl. Yr	2043	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	26-Jul-2013		Previous Inspection Date	08-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							