

Bridge Culvert Inspection			
Bridge File Number	76869 -1 Bridge Culvert	Form Type	CUL1
Year Built	1968	Lot No.	1
Bridge or Town Name	ROLLING HILL	Inspector Name	Tom Carey
Located Over	TRIBUTARY TO TWELVE MILE COULEE, 2.13.3.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	530:02 C1 18.829	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	23-Jun-2010
Legal Land Location	SW SEC 18 TWP 15 RGE 13 W4M	Data Entry By	Kelsey Roberts
Longitude, Latitude	-111:47:28, 50:15:07	Data Entry Date	21-Jul-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA23	Review Date	19-Jul-2010
Clear Roadway/Skew	9.1 /	Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	170 / 2009 (A)	Dept. Review Date	23-Jul-2010
Road Classification	RLU-209G-90	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	-	1524	MP	33.7	68X13		ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	South R/W	Gas		
Power	3 wire N., 3 wire W.	Municipal		
Others		Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	Rural road intersection 10m west
Vertical Alignment	8	8	
Roadway Width (m)	9.200		
Embankment	N	5	
Sideslope (__:1)	2.0		
(Height of Cover(m) : 4.2)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		South end.
End Treatment (Concrete, Steel, Others, None)	NONE		
Headwall	X	X	Drainage culverts E. & W. sides.
Collar	X	X	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	5	
(Type : RIP RAP, NATURAL)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		N	5	snow covered
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): , Rise (mm): 1524, Type: MP)				
Barrel Last Accessible Date				
Special Features				
Special Feature				(ROOF SHAPE IS ADEQUATE. ESTIMATE 100 mm SAG.) 13/06/03
(Type :)				
Special Feature				Water 200mm from crown. Unable to enter - viewed from ends. Could not site roof line.
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	100			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
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		N	N	(CORROSION WITH PITTING @ SIDEWALL viewed from ends) 13/06/03 Fitting corrosion at all areas seen at ends.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			1.3m DP

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		4	4	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	4	(500mm deep) 13/06/03 Debris at U/S end 500mm above crown
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		4	4	general rating carried forward
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		North end.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	5	
(Type : NATURAL)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	
Bank Stability		N	4	Sloughing at SE @ 15m
HWM (m below Top of Culvert)	-0.5			Long area
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		9	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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	47.7/41.4	Est. Repl. Yr	2015	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	-Pipe hasn't been entered in past cycles - consider dewater and inspection. -Or assess for replacement on five year cycle.		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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	23-Sep-2013		Previous Inspection Date	22-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							