

Bridge Culvert Inspection				
Bridge File Number	81889 -1 Bridge Culvert		Form Type	CUL1
Year Built	2001		Lot No.	4
Bridge or Town Name	CALGARY		Inspector Name	Garry Roberts
Located Over	PINE CREEK, 2.13.29, WATERCRS-ST		Inspector Class	BR CLS A
Located On	2:15 R1 6.306;2:15 L1 6.411		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	30-Jan-2013
Legal Land Location	SW SEC 9 TWP 22 RGE 29 W4M		Data Entry By	Erin Roberts
Longitude, Latitude	-113:58:19, 50:51:03		Data Entry Date	19-Feb-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	DEERFOOT/STONEY		Review Date	06-Feb-2013
Clear Roadway/Skew	34 /		Dept. Reviewer Name	Tim Davies
AADT/Year	33,500 / 2011 (A)		Dept. Review Date	21-Feb-2013
Road Classification	RFD-616.6-130		Follow-Up By	
Detour Length (km)	1			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3440	SP	114.4	152X51	4.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone			Gas	
Power			Municipal	
Others	Street lights East and West ROW		Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Located South of median cross over - South of Bow River bridges.
Vertical Alignment		6	6	
Roadway Width (m)	34.000			
Embankment		6	7	4:1 at bottom to 3:1 at top.
Sideslope (_ :1)	3.0			
(Height of Cover(m) : 6)				
Guardrail (Y/N)	Yes			Thriebeam
Approach Road / Embankment General Rating		6	6	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		7	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): , Rise (mm): 3440 , Type: SP)				
Barrel Last Accessible Date	30-Jan-2013			
Special Features				
Special Feature				Unable to enter full barrel. Soft ice at U/S and center. Accessible from D/S end to approx. center. Viewed from both ends, shape good.
(Type :)				
Special Feature				
(Type :)				
Roof		N	7	Estimate roof sag
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	50			
Percent Sag	2			
Sidewall		N	7	(From past inspection)22-April-2004 Estimate of ring #
Measured Span (mm)	3493			
Measured At Ring No.	17			
Deflection (mm)	53			
Percent Deflection	2			
Floor		N	N	Ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	8	
Separation (mm)	0			
Longitudinal Seams		N	7	50% of seams under ice. 2N stagger.
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)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	7	
Corrosion By Soil (Y/N)	No			
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): , Rise (mm): 3440, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				East
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)	800			
Scour Protection		7	7	
(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		5	5	Curves u/s & d/s
Bank Stability		7	7	
HWM (m below Top of Culvert)	1.2			Small size drift at d/s fence
Drift (Y/N)	Yes			No visible HWM
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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) (%)	55.6/77.8	Sufficiency Rating (Last/Now) (%)	62.5/73.4	Est. Repl. Yr	2052	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	Jon Davies		Previous Assistant's Name				
Next Inspection Date	30-Oct-2014		Previous Inspection Date	25-Oct-2011			
Inspection Cycle (Default) (months)	21						
Comment							