

Bridge Culvert Inspection			
Bridge File Number	00143 -1 Bridge Culvert	Form Type	CUL1
Year Built	1974	Lot No.	1
Bridge or Town Name	SEEBE	Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO KANANASKIS RIVER, 2.13.56.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	40:12 C1 37.133	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	27-Mar-2013
Legal Land Location	NE SEC 32 TWP 23 RGE 8 W5M	Data Entry By	Lauren Korte
Longitude, Latitude	-115:04:23, 51:00:28	Data Entry Date	11-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	CMA28	Review Date	10-Apr-2013
Clear Roadway/Skew	11.2 / -21 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	1,690 / 2012 (A)	Dept. Review Date	06-May-2013
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	50		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1738	1920	SPE	101.8	152X51	3.5	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West r/w.	Gas	
Power		Municipal	
Others	Cable East R/W.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	In between two curves, limited sight distance.
Vertical Alignment		6	6	
Roadway Width (m)	11.200			
Embankment		6	6	5:1 @ East. 3:1 @ top then 4:1 @ most of slope.
Sideslope (__:1)	3.0			
(Height of Cover(m) : 8)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		6	6	Corrosion with some pitting on floor.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			200 mm dia drain pipe at SE.
Above/Below (mm)	1000			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1738, Rise (mm): 1920, Type: SPE)				
Barrel Last Accessible Date	27-Mar-2013			
Special Features				
Special Feature				Pipe is on steep grade and has bend.
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	
Measured Rise (mm)	1855			
Measured At Ring No.	13			
Sag (mm)	65			
Percent Sag	3			
Sidewall		4	3	Cracked seams and pulled bolts.
Measured Span (mm)	1780			
Measured At Ring No.	13			
Deflection (mm)	42			
Percent Deflection	2			
Floor		6	6	Dry at U/S rings. Spring enters at R4. Rocks in R 19-22
Bulge (mm)	150			
Measured At Ring No.	18			
Abrasion (Y/N)	Yes			
Circumferential Seams		5	5	1 cracked bolt at R9.
Separation (mm)	0			
Longitudinal Seams		4	3	North side 4 o'clock 2 bolts 117 mm-R23 (2nd from D/S) North side 4 o'clock 18 bolts 97 mm-R22 North side 4 o'clock 5 bolts 100mm-R21 North side 4 o'clock 13 bolts 83 mm-R20 North side 4 o'clock 10 bolts 85 mm-R19 Minimal change at 2013 inspection.
Total No. of Cracked Rings	5			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	83			Several bolts pulled at South longitudinal seam - worst at R8.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	Soil & water. Corrosion with some pitting @ floor @ u/s .
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1738, Rise (mm): 1920, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	Rock to 0.4m at D/S rings 19-22.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		4	3	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	Rolled slightly.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Spring flowing through road fill, 4m north of d/s channel.
Bank Stability		5	5	Cut bank eroded at u/s end, is rip-rapped.
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			At D/S.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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) (%)	44.4/33.3	Sufficiency Rating (Last/Now) (%)	47.1/41.6	Est. Repl. Yr	2025	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor cracked seams. Minimal change over several inspections.		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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	27-Dec-2014		Previous Inspection Date	25-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							