

Bridge Culvert Inspection			
Bridge File Number	13784 -1 Bridge Culvert	Form Type	CUL1
Year Built	1990	Lot No.	1
Bridge or Town Name	FAIRVIEW	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO RINGS CREEK, 8.10.80.1.2, WATERCRS-ST	Inspector Class	BR CLS B
Located On	64:06 C1 25.958	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	03-Nov-2011
Legal Land Location	SW SEC 24 TWP 81 RGE 4 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:29:47, 56:01:51	Data Entry Date	22-Nov-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	20-Nov-2011
Clear Roadway/Skew	9 / 34 deg. (RHF)	Dept. Reviewer Name	Steve Pasquan
AADT/Year	500 / 2010 (A)	Dept. Review Date	10-Jan-2012
Road Classification	RAU-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	-	3050	SP	145.1	152X51	6.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Entrances both directions. SAG CURVE. No passing up each end.
Vertical Alignment	6	6	
Roadway Width (m)	9.000		
Embankment	3	2	Scour NE,NW &SE ditches to channel SE ditch slumping(30m long X 6m wide X 2.5m high NE eroding inot riadway (500x3500) asphalt gone.
Sideslope (__:1)	3.0		
(Height of Cover(m) : 19.3)			
Guardrail (Y/N)	Yes		7 damaged posts East guardrail, (4 missing bolts NE, turn down end-May 2, 2008) Covered with snow. 8 damaged posts West guardrail, still functional
Approach Road / Embankment General Rating	6	2	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	6	6	Wide crack @ centre of headwall.
Collar	N	6	Spalling 20%

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		6	6	Staining & abrasion on floor.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Mud covered
Above/Below (mm)	900			
Scour Protection		N	N	(30% sandstone.-May 2, 2008) Mud from slide.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	N	
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): , Rise (mm): 3050, Type: SP)				
Barrel Last Accessible Date	04-Nov-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	3045			
Measured At Ring No.	15			
Sag (mm)	5			
Percent Sag	0			
Sidewall		7	7	
Measured Span (mm)	3037			
Measured At Ring No.	15			
Deflection (mm)	13			
Percent Deflection	0			
Floor		7	6	Staining & abrasion on floor.
Bulge (mm)	0			
Measured At Ring No.	15			
Abrasion (Y/N)	Yes			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				3N Stagger
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Superficial rust on floor. 1.5m wide strip.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3050, Type: SP)				
Camber POS/ZERO/NEG	NEG			~700mm
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	wide cracks & scaling.
Collar		N	6	Scaling
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		6	7	Staining & abrasion on floor
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		4	4	(Some rock is sandstone-02-May-2008.)
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		4	4	Scour/erosion on North side of bevel.
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	4	1.5m vertical scour along banks 1.5m below top of pipe, grass in trees Slide on North side of d/s channel (15m x 20m wide) Slide on u/s end blocking channel.
Bank Stability		3	3	Slice on Northside of u/s chaanel blocking channel (see photo)
HWM (m below Top of Culvert)	1.5			drift d/s.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		3	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	Place additional riprap d/s.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2012	Repair ditch & d/s channel erosion					
OTHER ACTION	2012	Repair slide of highway u/s.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	73.7/57.6	Est. Repl. Yr	2041	Maint. Req. (Y/N)	Yes
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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	03-Aug-2013		Previous Inspection Date	24-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							