

Bridge Culvert Inspection			
Bridge File Number	08868 -1 Bridge Culvert	Form Type	CULE
Year Built/Lined	1961/1993	Lot No.	2
Bridge or Town Name	FAIRVIEW	Inspector Name	Russel Vanderschaaf
Located Over	ISLAND CREEK, 8.10.80.2, WATERCRS-ST	Inspector Class	BR CLS B
Located On	682:02 C1 20.094	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	19-Jun-2012
Legal Land Location	SW SEC 3 TWP 82 RGE 4 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:32:52, 56:04:21	Data Entry Date	10-Jul-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	09-Jul-2012
Clear Roadway/Skew	8.2 / 0 deg.	Dept. Reviewer Name	David Morrison
AADT/Year	220 / 2011 (A)	Dept. Review Date	01-Nov-2012
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN FULL LINER	-	2600	MP	84	125X26	3.5	ROUND
1	D/S FULL LINER	-	3050	SPE	47.25	152X51	3.0	ROUND
Special Features	CONC THRUST BEAM, BARREL ELBOW							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Buried S side slope	Gas	
Power	OHP 50m N of cl	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	5	5	Sag curve no passing.
Vertical Alignment	5	5	
Roadway Width (m)	8.200		
Embankment	8	8	
Sideslope (_ :1)	3.5		
(Height of Cover(m) : 10)			
Guardrail (Y/N)	Yes		Broken turndown end NE corner.-photo
Approach Road / Embankment General Rating	5	5	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	7	7	
Collar	7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	650			
Scour Protection (Type : CONCRETE) (Avg. Rock Size(mm) :)		9	3	AJ-24 A Jacks Scouring on NE corner 3mWx4mLx1mD.-photo
Scour/Erosion		9	3	2m high beaverdam 10m u/s. Scouring on NE corner 3mWx4mLx1mD.-photo
Beavers (Y/N)	Yes			
Upstream End General Rating		7	3	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2600, Type: MP)				
Barrel Last Accessible Date	19-Jun-2012			
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		5	5	20M from inlet
Measured Rise (mm)	2470			
Measured At Ring No.				
Sag (mm)	130			
Percent Sag	5			
Sidewall		5	5	20m from inlet.
Measured Span (mm)	2732			
Measured At Ring No.				
Deflection (mm)	132			
Percent Deflection	5			
Floor		5	5	Covered by concrete & ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	Bulge at 2 o'clock 40m from, inlet.
Separation (mm)	100			
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		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2600, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		3	3	Vertical elbows in extension
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): , Rise (mm): 3050, Type: SPE)				
Barrel Last Accessible Date	19-Jun-2012			Water 1.5m from crown d/s end - viewed from ends.
Special Features				
Special Feature		9	9	2-23 degree vertical elbows
(Type : BARREL ELBOW)				
Special Feature				1-45 degree horizontal elbow
(Type :)				
Roof		9	N	19.88 from d/s end.
Measured Rise (mm)	3047			
Measured At Ring No.				
Sag (mm)	3			
Percent Sag				
Sidewall		9	N	19.88 from d/s end.
Measured Span (mm)	3052			
Measured At Ring No.				
Deflection (mm)	2			
Percent Deflection				
Floor		9	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	N	
Separation (mm)				
Longitudinal Seams		9	N	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		9	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): , Rise (mm): 3050, Type: SPE)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		3	3	vertical elbows
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating		9	N	GR was '9' on 25-Oct-2011
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1400			
Scour Protection		9	9	AJ-24 Jacks
(Type : CONCRETE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
Downstream End General Rating		9	9	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		5	5	
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			Beaver dam u/s. stable
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		8	8	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2013	Place 15m2 Class I riprap on u/s end.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2013	Remove beaver dam u/s end.					
OTHER ACTION	2013	Repair damaged turn down end.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	56.2/55.6	Est. Repl. Yr	2051	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				
Next Inspection Date	19-Sep-2015		Previous Inspection Date	25-Oct-2011			
Inspection Cycle (Default) (months)	39						
Comment							