

Bridge Culvert Inspection			
Bridge File Number	74955 -2 Bridge Culvert	Form Type	CUL1
Year Built	2003	Lot No.	2
Bridge or Town Name	EDWAND	Inspector Name	Kris Bosters
Located Over	TRIBUTARY TO WHITE EARTH CREEK, 6.45.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	28:08 C1 26.830	Assistant Name	Brian Cote
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	10-Apr-2012
Legal Land Location	SW SEC 19 TWP 59 RGE 15 W4M	Data Entry By	Lisa Fairhurst
Longitude, Latitude	-112:14:27, 54:06:46	Data Entry Date	25-Apr-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA07	Review Date	25-Apr-2012
Clear Roadway/Skew	13.7 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	3,140 / 2011 (A)	Dept. Review Date	04-May-2012
Road Classification	RAU-213.4-120	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	-	3670	SP	32.309	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	North & South r/w.	Gas	150m east
Power	3 wires on North r/w.	Municipal	
Others	No BF tag was visible.	Problem (Y/N)	No
Remarks	Exposed temporary Telus line south r/w. Fibre optic in N r/w		

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	No passing east bound, east of crossing. Vertical curve.
Vertical Alignment		7	7	
Roadway Width (m)	13.700			
Embankment		7	7	North 4:1 except @ culvert = 1:1. South 6:1 except @ culvert = 1:1.
Sideslope (__:1) (Height of Cover(m) : 0.9)				
Guardrail (Y/N)	Yes			1 cracked guardrail post South - photo
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		9	9	
Collar		9	7	Small chips caused by placement of riprap
Wingwalls (Shape :)		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	
Beavers (Y/N)	Yes			1.0m high dam 30m u/s
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3670, Type: SP)				
Barrel Last Accessible Date	08-Apr-2005			Water too deep. Viewed from ends
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	N	Silt on floor. - Jul10 Hole in roof @ u/s end from mower damage -photo -est @ cl
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	20			
Percent Sag	1			
Sidewall		8	N	Viewed rest of sidewall, appears in good shape. (Deep water & silt.) - Jul10
Measured Span (mm)	3643			
Measured At Ring No.				
Deflection (mm)	27			
Percent Deflection	1			
Floor		N	N	Under water & silt. Steel weir on floor under water.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	N	Looks good.As viewed from ends.
Separation (mm)	0			
Longitudinal Seams		7	N	Looks good.As viewed from ends.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				2N
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		8	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3670, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		N	N	(Steel weir under water.) Jul10
(Type : WEIR)				
Waterway Adequacy		8	8	Previous comments indicate silting
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried forward from 8Apr05
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		9	9	
Collar		9	9	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		9	9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	750			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Culvert)				High water mark not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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	2012	Replace broken guardrail post South side of road.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	64.3/64.2	Est. Repl. Yr	2060	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor roof for further damage		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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	10-Jan-2014		Previous Inspection Date	21-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							