

Bridge Culvert Inspection				
Bridge File Number	73750 -1 Bridge Culvert		Form Type	CUL1
Year Built	1966		Lot No.	2
Bridge or Town Name	BRETON		Inspector Name	Todd Warshawski
Located Over	POPLAR CREEK, 6.132, WATERCRS-ST		Inspector Class	BR CLS B
Located On	20:08 C1 14.192		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	10-Jan-2013
Legal Land Location	SW SEC 25 TWP 47 RGE 4 W5M		Data Entry By	Lisa Fairhurst
Longitude, Latitude	-114:27:53, 53:04:48		Data Entry Date	22-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA11		Review Date	16-Jan-2013
Clear Roadway/Skew	10.3 / -45 deg. (LHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	2,370 / 2011 (A)		Dept. Review Date	23-Jan-2013
Road Classification	RAU-210-110		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	4686	5165	SPE	72.5	152X51	4.0,5.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.		Gas
Power	3 wires 20m from c/l East r/w.		Municipal
Others	Fibre optics line west r/w.		Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrances both directions.
Vertical Alignment		8	8	
Roadway Width (m)	11.200			
Embankment		N	4	Erosion gully at SW 20m long, 1500mm deep, 2m wide - photo Outside of road r/w
Sideslope (_ :1)	4.0			
(Height of Cover(m) : 4)				
Guardrail (Y/N)	Yes			East side only.
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		8	N	Snow covered
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	Floor not rated
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	N	
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): 4686, Rise (mm): 5165, Type: SPE)				
Barrel Last Accessible Date	10-Jan-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	6	Rise not measured due to ice Sag est @ less than 5%
Measured Rise (mm)	5130			
Measured At Ring No.	11			
Sag (mm)	35			
Percent Sag	1			
Sidewall		5	5	
Measured Span (mm)	4894			
Measured At Ring No.	10			
Deflection (mm)	208			
Percent Deflection	4			
Floor		N	N	Ice covered
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	Random bolts are loose.
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	5	Soil side corrosion stains from bolt holes. Superficial rust lower 1/3.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4686, Rise (mm): 5165, Type: SPE)				
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Narrow cracking @ 300 spacing on top.
Collar		7	N	(100mm dia chips from rock placement.-Feb/11) Snow covered
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		8	7	Floor not rated
Heaving (mm)	300			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		5	N	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	GR carried forward
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Culvert)	0.0			(Roadway overtopped July/90 - see file.)
Drift (Y/N)	No			
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	2013	Repair erosion gully					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	65.2/64.9	Est. Repl. Yr	2030	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	Wade Nanninga		Previous Assistant's Name				
Next Inspection Date	10-Oct-2014		Previous Inspection Date	14-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							