

Bridge Culvert Inspection				
Bridge File Number	01842 -1 Bridge Culvert		Form Type	CULM
Year Built	1958		Lot No.	2
Bridge or Town Name	INNISFAIL		Inspector Name	Owen Salava
Located Over	2ND ORDER TRIBUTARY TO WASKASOO CREEK, 3.81.3.1, WATERCRS-ST		Inspector Class	BR CLS A
Located On	2:24 R1 8.241;2:24 L1 8.243		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-Mar-2013
Legal Land Location	SW SEC 18 TWP 36 RGE 27 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-113:51:26, 52:05:06		Data Entry Date	26-Mar-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA19		Review Date	16-Mar-2013
Clear Roadway/Skew	31 / -30 deg. (LHF)		Dept. Reviewer Name	Chris Black
AADT/Year	30,150 / 2011 (A)		Dept. Review Date	28-Mar-2013
Road Classification	RFD-412.4-130		Follow-Up By	
Detour Length (km)	1			

Bridge Culvert Information

Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	3658	1829	BP	72			RECTANGLE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone		Gas					
Power		Municipal					
Others		Problem (Y/N)		No			
Remarks							

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	4 lane divided plus decel & accel lane. Crosses intersection of Hwy 2 and local road NW corner to SE corner.
Vertical Alignment		8	8	
Roadway Width (m)	27.600			
Embankment		6	6	
Sideslope (__:1)	5.0			
(Height of Cover(m) : 1.5)				
Guardrail (Y/N)	Yes			Damaged at NW; 2 damaged sections, 2 damaged posts.
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		X	X	
Wingwalls		7	7	Exposed rebar @ NE corner.
(Shape : FLARE)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
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): 1829, Rise (mm): 1829, Type: BP, Cell Sequence: 1)				
Barrel Last Accessible Date	14-Mar-2013			South box. West half slopes down, drops 0.6m to outlet.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Minor corrosion stains & cracks in roof.
Measured Rise (mm)	1829			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag	0			
Sidewall		6	6	Typical narrow to medium cracking on sidewall.
Measured Span (mm)	1829			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection	0			
Floor		6	N	(Floor not level during construction, out as much as 100mm. 12Aug2011) - Snow covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	15			
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		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1829, Type: BP, Cell Sequence: 1)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	(100mm silt, will flush during flood. 12Aug2011).
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1829, Type: BP, Cell Sequence: 2)				
Barrel Last Accessible Date	14-Mar-2013			North box. West half slopes down, drops 0.6m to outlet.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	
Measured Rise (mm)	1829			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag	0			
Sidewall		8	8	Typical narrow to medium vertical cracks in sidewall.
Measured Span (mm)	1829			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection	0			
Floor		6	N	(Floor uneven by construction, as much as 100mm. 12Aug2011) - Ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	15			
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		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1829, Type: BP, Cell Sequence: 2)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	(100mm silt will flush during flood. 12Aug2011).
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		X	X	
Wingwalls		8	8	
(Shape : FLARE)				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	BF 81181, 200m U/S.
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
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		8	8	

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	Patch NE wing at exposed rebar.					
OTHER ACTION	2013	Repair NW guardrail - 2 rail sections, 2 timber posts.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	73.6/73.6	Est. Repl. Yr	2043	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	14-Dec-2014		Previous Inspection Date	12-Aug-2011			
Inspection Cycle (Default) (months)	21						
Comment							