

Bridge Culvert Inspection			
Bridge File Number	13849 -1 Bridge Culvert	Form Type	CUL1
Year Built	1997	Lot No.	2
Bridge or Town Name	HYTHE	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO BEAVERLODGE RIVER, 8.10.58.18.8.1.11, WATERCRS-ST	Inspector Class	BR CLS A
Located On	43:00 C1 36.863	Assistant Name	Brian Cote
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	05-Jul-2011
Legal Land Location	NW SEC 6 TWP 73 RGE 10 W6M	Data Entry By	Lisa Fairhurst
Longitude, Latitude	-119:32:10, 55:17:59	Data Entry Date	12-Aug-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA05	Review Date	13-Jul-2011
Clear Roadway/Skew	13.6 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	4,970 / 2010 (A)	Dept. Review Date	18-Nov-2011
Road Classification	RAU-213.4-120	Follow-Up By	
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	5184	2833	RPB	16.5	152X51	3.0	ELLIPSE
Special Features	STORM WATER DRAIN							
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	7	7	CURVE 300m N, HILL ON EAST APPROACH. No passing east bound. RAILWAY X-ING 100m D/S
Vertical Alignment	7	7	
Roadway Width (m)	13.600		
Embankment	7	7	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 1)			
Guardrail (Y/N)	Yes		Rail not continuous. CONCRETE PATCHES @ BASE OF BRIDGERAIL POSTS ARE CRACKING.
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	5	5	CONCRETE SPALLING ON HEADWALL
Collar	6	X	
Wingwalls (Shape :)	6	6	(ENDS OF WINGWALL PLANKS DAMAGED NE CORNER & 2 BROKEN AT BOTTOM IN NW CORNER.Jun8,2006)

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		N	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	G.R. carried fowd.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5184, Rise (mm): 2833, Type: RPB)				
Barrel Last Accessible Date	11-Feb-2009			Not accessible
Special Features				
Special Feature		4	4	Drain pipe extensions missing NE corner.
(Type : STORM WATER DRAIN)				
Special Feature				
(Type :)				
Roof		7	N	(Couldn't measure due to ice.
Measured Rise (mm)				@ c/l
Measured At Ring No.				
Sag (mm)	34			Estimated upward deflection. - Feb 29 2009)
Percent Sag	1			
Sidewall		7	9	
Measured Span (mm)	5102			(7.3m from inlet
Measured At Ring No.				
Deflection (mm)	62			Inward deflection - Feb 29 2009)
Percent Deflection	1			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	N	
Separation (mm)				
Longitudinal Seams		7	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		8	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5184, Rise (mm): 2833, Type: RPB)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	GR 7 - 11 Feb 2009
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	4	HEAVY SCALING ON HEADWALL.
Collar		6	6	
Wingwalls		6	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		N	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		5	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(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	2011	Repair drain extension on NE corner. and extend others					
OTHER ACTION	2011	Patch scaling on headwall to drain away from headwall					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	70.0/57.0	Est. Repl. Yr	2032	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	Laurie McCarron		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	05-Apr-2013		Previous Inspection Date	11-Feb-2009			
Inspection Cycle (Default) (months)	21						
Comment							