

Bridge Culvert Inspection				
Bridge File Number	71300 -1 Bridge Culvert		Form Type	CUL1
Year Built	1986		Lot No.	2
Bridge or Town Name	GOODFARE		Inspector Name	Russel Vanderschaaf
Located Over	STEEP ROCK CREEK, 8.10.58.18.8.1.15.2, WATERCRS-ST		Inspector Class	BR CLS B
Located On	671:02 C1 3.400		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-May-2010
Legal Land Location	SW SEC 25 TWP 72 RGE 13 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:52:11, 55:15:29		Data Entry Date	14-Jun-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA05		Review Date	07-Jun-2010
Clear Roadway/Skew	10.2 / 10 deg. (RHF)		Dept. Reviewer Name	Steve Pasquan
AADT/Year	310 / 2009 (A)		Dept. Review Date	19-Aug-2010
Road Classification			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	8700	5600	RPA	25.6	152X51	5.0,4.0,4.0	ARCH
Special Features		INSTRUMENT DEV						
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	South side	Gas	
Power	North side - 1 wire OH.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Pipe in a curve. 43m of guardrail
Vertical Alignment		7	7	
Roadway Width (m)	11.000			
Embankment		N	7	
Sideslope ( :1)	2.5			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	Yes			87m of guardrail on each side of road.
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>	

Upstream End				
<b>Culvert Component</b>		Last	Now	Explanation of Condition
Direction		S		Spall on SW corner 0.3mWx0.25mLx0.04mD.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		X	X	
Wingwalls		7	7	
(Shape : )				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	4	Erosion under SE corner 0.2mDx4mLx0.4mW and Sw corner 0.3mDx4mLx0.4mW-photo
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	4	Erosion under SW corner 0.2mDx4mLx0.4mW and Sw corner 0.3mDx4mLx0.4mW-photo
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>4</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8700, Rise (mm): 5600, Type: RPA)				
Barrel Last Accessible Date	16-Jun-2003			Water approx 3.5m below crown, to high to enter.
<b>Special Features</b>				
Special Feature		N	N	Good as viewed from ends. System mostly in fill and does not appear to be fully wired. (Joint full of silt. 03/06/16)
(Type : <b>INSTRUMENT DEV</b> )				
Special Feature				
(Type : )				
Roof		7	N	Sag is at 1 & 2:00 at d/s end.-16-Jun-2003
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	100			
Percent Sag				
Sidewall		7	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	(At roof 0.6m from u/s end (S.end) -19980130)
Separation (mm)	4			
Longitudinal Seams		N	N	2N Stagger
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)	Yes			
Coating		7	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8700, Rise (mm): 5600, Type: RPA)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	(Icing 19980130)
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>N</b>	GR 7 - 16-Jun-2003
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		X	X	
Wingwalls		7	7	
(Shape : )				
Cutoff Wall		X	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	4	NE corner 0.2mDx4mLx0.4mW scour under wingwall. NW corner 0.3mDx4mLx0.4mW-scour under wingwall.
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		N	4	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel General Rating</b>		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	2010	Repair scour erosion under wingwalls with 4m3 granular backfill and 5m3 of class 1 riprap.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>77.2/64.8</b>	Est. Repl. Yr	2033	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor settlement, scour.		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	14-Aug-2013		Previous Inspection Date	27-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							