

Bridge Culvert Inspection			
Bridge File Number	77402 -1 Bridge Culvert	Form Type	CUL1
Year Built	1971	Lot No.	4
Bridge or Town Name	SIBBALD	Inspector Name	Jason Saly
Located Over	TRAIL-ANIMAL, OVER SP	Inspector Class	BR CLS A
Located On	570:10 C1 18.750	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	22-Nov-2010
Legal Land Location	SE SEC 1 TWP 27 RGE 1 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-110:00:38, 51:16:14	Data Entry Date	07-Jan-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA22	Review Date	11-Dec-2010
Clear Roadway/Skew	11 /	Dept. Reviewer Name	Chris Black
AADT/Year	180 / 2009 (A)	Dept. Review Date	11-Jan-2011
Road Classification	RCU-210-110	Follow-Up By	
Detour Length (km)	6		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2020	2236	SPE	43.9	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment	5% V.E., concrete floor, cattlepass.							

**Posting Information**

Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)												
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required											

**Utilities (Located at)**

Utility Attachments												
Telephone	South ditch					Gas						
Power	800m to the W.					Municipal						
Others						Problem (Y/N)		No				
Remarks												

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		8	7	Farm access east.
Vertical Alignment		8	8	
Roadway Width (m)	10.000			
Embankment		8	N	Snow covered.
Sideslope (___:1)	3.5			
(Height of Cover(m) : 4)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>8</b>	<b>7</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	S		Confirmed with farmer
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall	X	X	
Collar	X	X	

Upstream End																																														
Culvert Component		Last	Now	Explanation of Condition																																										
Wingwalls (Shape : )		X	X																																											
Cutoff Wall		X	X																																											
Bevel End		7	7																																											
Heaving (mm)	0																																													
Invert Above/Below Stream Bed	BELOW																																													
Above/Below (mm)	280																																													
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		7	N	Snow covered.																																										
Scour/Erosion		7	N	Snow covered.																																										
Beavers (Y/N)	No																																													
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>																																											
Bridge Culvert Barrel																																														
Culvert Component		Last	Now	Explanation of Condition																																										
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2020, Rise (mm): 2236, Type: SPE)																																														
Barrel Last Accessible Date	22-Nov-2010			5N roof, 5N bottom and 9N walls.																																										
<b>Special Features</b>																																														
Special Feature (Type : )																																														
Special Feature (Type : )																																														
Roof		6	6	Roof sag estimated 3%. Est 70mm sag - unable to measure due to concrete floor																																										
Measured Rise (mm)																																														
Measured At Ring No.																																														
Sag (mm)	70																																													
Percent Sag																																														
Sidewall		7	7	<table border="0"> <tr> <td>Rise</td> <td>Span</td> <td></td> </tr> <tr> <td>1</td> <td>1882</td> <td>2052</td> </tr> <tr> <td>2</td> <td>1927</td> <td>2093</td> </tr> <tr> <td>3</td> <td>1978</td> <td>2088</td> </tr> <tr> <td>4</td> <td>2036</td> <td>2108</td> </tr> <tr> <td>5</td> <td>2036</td> <td>2108</td> </tr> <tr> <td>6</td> <td>2053</td> <td>2120</td> </tr> <tr> <td>7</td> <td>2090</td> <td>2114</td> </tr> <tr> <td>8</td> <td>2081</td> <td>2127</td> </tr> <tr> <td>9</td> <td>2100</td> <td>2107</td> </tr> <tr> <td>10</td> <td>2115</td> <td>2099</td> </tr> <tr> <td>11</td> <td>2091</td> <td>2103</td> </tr> <tr> <td>12</td> <td>2114</td> <td>2054</td> </tr> <tr> <td>13</td> <td>2061</td> <td>2058</td> </tr> </table> Taken at every section 19980127 Span Verified	Rise	Span		1	1882	2052	2	1927	2093	3	1978	2088	4	2036	2108	5	2036	2108	6	2053	2120	7	2090	2114	8	2081	2127	9	2100	2107	10	2115	2099	11	2091	2103	12	2114	2054	13	2061	2058
Rise	Span																																													
1	1882	2052																																												
2	1927	2093																																												
3	1978	2088																																												
4	2036	2108																																												
5	2036	2108																																												
6	2053	2120																																												
7	2090	2114																																												
8	2081	2127																																												
9	2100	2107																																												
10	2115	2099																																												
11	2091	2103																																												
12	2114	2054																																												
13	2061	2058																																												
Measured Span (mm)	2105																																													
Measured At Ring No.	6																																													
Deflection (mm)	85																																													
Percent Deflection	4																																													
Floor		N	N	Concrete floor and 100 mm dirt.																																										
Bulge (mm)	0																																													
Measured At Ring No.																																														
Abrasion (Y/N)	No																																													
Circumferential Seams		7	7																																											
Separation (mm)	0																																													

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2020, Rise (mm): 2236, Type: SPE)				
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		7	7	(Farmer said pipe ran to within 0.5m freeboard in 2008. 29Jan2009).
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>6</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	230			
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	Grass field
Roadway Surface		7	7	
(Type : <b>SOIL</b> )				
Icing (Y/N)		No		
Traffic Safety Features		X	X	
Type		None		
Lighting		X	X	
Barrel Leakage (Y/N)		No		
Drainage		7	7	
Structure In Use (Y/N)		Yes		
<b>Grade Separation General Rating</b>		<b>7</b>	<b>7</b>	

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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>77.6/72.6</b>	Est. Repl. Yr	2034	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Cattlepass also acts as a waterway. (Farmer said it flowed to within 0.5 freeboard in 2008. 29Jan2009).		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)	N						
Proposed Action	2007.05.21 Revisit site again in two years to determine continued usage. Bridge Branch could determine if guardrails are required.						
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	22-Feb-2014		Previous Inspection Date	29-Jan-2009			
Inspection Cycle (Default) (months)	39						
Comment							