

Bridge Culvert Inspection			
Bridge File Number	78221 -1 Bridge Culvert	Form Type	CUL1
Year Built	1984	Lot No.	3
Bridge or Town Name	BEARBERRY	Inspector Name	Owen Salava
Located Over	TEEPPEE POLE CK, 3.95.3, WATERCRS-ST	Inspector Class	BR CLS A
Located On	584:02 C1 4.070	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	28-Oct-2011
Legal Land Location	SW SEC 3 TWP 34 RGE 8 W5M	Data Entry By	Marcia Chavez
Longitude, Latitude	-115:03:21, 51:53:16	Data Entry Date	30-Nov-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA18	Review Date	14-Nov-2011
Clear Roadway/Skew	11.5 /	Dept. Reviewer Name	Andrew Smikles
AADT/Year	160 / 2010 (A)	Dept. Review Date	02-Dec-2011
Road Classification	RCU-209G-90	Follow-Up By	
Detour Length (km)	50		

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	4734	3580	RPE	36.6	152X51	4.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone		Gas	
Power	1 wire 10m North r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curve starts at culvert (going West). Approach @ SW corner guardrail.
Vertical Alignment		7	7	
Roadway Width (m)	11.500			
Embankment		6	6	
Sideslope ( _ :1)	2.5			
(Height of Cover(m) : 2.2)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>5</b>	<b>5</b>	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		4	4	Rough installation.
Collar		5	5	Cracking / eroded.
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	Buried.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		4	4	Erosion under collar - photo.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>600</b> )				
Scour/Erosion		4	4	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>4</b>	<b>4</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4734, Rise (mm): 3580, Type: RPE)				
Barrel Last Accessible Date	28-Oct-2011			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	4	Barrel still has good shape & arching capability.
Measured Rise (mm)	3285			
Measured At Ring No.	8			8.3%
Sag (mm)	295			
Percent Sag	8			
Sidewall		N	6	
Measured Span (mm)	4810			
Measured At Ring No.	8			1.6%
Deflection (mm)	76			
Percent Deflection	2			
Floor		N	5	Rocks on floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	Staggered plates.
Separation (mm)	0			
Longitudinal Seams		N	5	Poor nesting at roof seam R2,4,7 (photo).
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	
Corrosion By Soil (Y/N)	No			
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): 4734, Rise (mm): 3580, Type: RPE)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>3</b>	<b>4</b>	No cracks.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	5	Cracks - rough installation.
Collar		5	5	Cracks / eroded - photo.
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	Buried.
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 600)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			Deadfall in d/s channel.
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>8</b>	<b>8</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	Place Class II U/S end - 6m3.					
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>33.3/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>56.3/60.5</b>	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Measure roof cracks/sag. Requires 2 man inspection or inspect in winter after freeze-up. Note: AADT - summer season = higher traffic volumes.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	28-Jan-2015		Previous Inspection Date	26-May-2005			
Inspection Cycle (Default) (months)	39						
Comment							