

Bridge Culvert Inspection				
Bridge File Number	71686 -1 Bridge Culvert		Form Type	CUL1
Year Built	1989		Lot No.	4
Bridge or Town Name	NAMPA		Inspector Name	Brian Pientsch
Located Over	2ND ORDER TRIBUTARY TO HEART RIVER, 8.10.56.6.1, WATERCRS-ST		Inspector Class	BR CLS A
Located On	2:60 C1 9.985		Assistant Name	Clem Guenette
Water Body Cl./Year			Assistant Class	BR CLS B
Navigabil. Cl./Year			Inspection Date	27-Nov-2012
Legal Land Location	SW SEC 19 TWP 81 RGE 20 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:07:59, 56:01:53		Data Entry Date	12-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	09-Jan-2013
Clear Roadway/Skew	11.4 / 36 deg. (RHF)		Dept. Reviewer Name	David Morrison
AADT/Year	2,460 / 2011 (A)		Dept. Review Date	20-Mar-2013
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	300			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3670	SP	45.7	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	East r/w	Gas	
Power	7 line west r/w	Municipal	
Others		Problem (Y/N)	Yes
Remarks	Phone line exposed d/s end channel.		

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Approach either side of pipe.
Vertical Alignment		8	8	
Roadway Width (m)	11.400			
Embankment		4	4	NW ditch scour, 650mm deep and 0.5m wide. SE ditch scour 800mm deep x 1600mm wide.
Sideslope (___:1)	4.0			
(Height of Cover(m) : 3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Spall, SW corner (150x150)
Collar		N	N	(Minor spalls (400x400) April 27, 2009) Snow covered.
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3670, Type: SP)				
Barrel Last Accessible Date	27-Nov-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	5	Sag deflection @ c/l.
Measured Rise (mm)				Measurements not taken due to ice cover.
Measured At Ring No.	6			estimated
Sag (mm)	250			
Percent Sag	7			
Sidewall		4	4	
Measured Span (mm)	3971			
Measured At Ring No.	6			
Deflection (mm)	301			
Percent Deflection	8			
Floor		N	N	Under ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		8	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				2N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	7	Calcium deposit through roof bolts.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3670, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		N	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
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)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Stable.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition

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							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	59.5/58.4	Est. Repl. Yr	2034	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor culvert deflections.		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	Lisbeth Medina			
Next Inspection Date	27-Aug-2014		Previous Inspection Date	26-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							