

Bridge Culvert Inspection			
Bridge File Number	80520 -1 Bridge Culvert	Form Type	CUL1
Year Built	1983	Lot No.	2
Bridge or Town Name	CASLAN	Inspector Name	Kris Bosters
Located Over	3RD ORDER TRIBUTARY TO AMISK RIVER, 7.25.3.1.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	855:22 C1 15.739	Assistant Name	Brian Cote
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	11-Dec-2012
Legal Land Location	NE SEC 23 TWP 63 RGE 17 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-112:27:38, 54:27:53	Data Entry Date	15-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA07	Review Date	19-Dec-2012
Clear Roadway/Skew	11.1 / -12 deg. (LHF)	Dept. Reviewer Name	Paul Catt
AADT/Year	440 / 2011 (A)	Dept. Review Date	18-Jan-2013
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	50		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2200	MP	62	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Along West ditch. (fibre)	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Access road to SE.
Vertical Alignment	7	7	
Roadway Width (m)	11.100		
Embankment	7	7	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 8)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	N	Covered by drift.-photo
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	N	Covered by drift.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		5	N	drift
Beavers (Y/N)	Yes			Beaver dam across inlet bevel.-photo
Upstream End General Rating		5	5	carried over
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2200 , Type: MP)				
Barrel Last Accessible Date	10-Sep-2009			Water flowing through barrel, viewed from d/s end - shape looks ok.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	N	
Measured Rise (mm)	2015			
Measured At Ring No.	4			
Sag (mm)	185			8.4%
Percent Sag	8			
Sidewall		5	N	
Measured Span (mm)	2340			
Measured At Ring No.	4			
Deflection (mm)	140			6.3%
Percent Deflection	6			
Floor		7	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	N	Due to out of shape sections, good matches are not possible at joints.-10-Sep-2009
Separation (mm)	80			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		5	5	Superficial rust lower 1/2.
Corrosion By Soil (Y/N)				
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): , Rise (mm): 2200, Type: MP)				
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		4	4	GR carried fwd from 02-Sep-2009
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	N	Snow covered
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	N	Wide range 200 - 1000mm.-snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 600)				
Scour/Erosion		5	N	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	Carried over.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2013						
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2013	Remove beaver dam U/S end & inside.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	47.3/48.0	Est. Repl. Yr	2023	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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	11-Mar-2016		Previous Inspection Date	10-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							