

Bridge Culvert Inspection				
Bridge File Number	71987 -1 Bridge Culvert		Form Type	CUL1
Year Built	1991		Lot No.	4
Bridge or Town Name	LONGVIEW		Inspector Name	Garry Roberts
Located Over	LANGFORD CREEK, 2.12.25.18.2, WATERCRS-ST		Inspector Class	BR CLS A
Located On	22:08 C1 37.255		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	05-Jun-2012
Legal Land Location	SW SEC 26 TWP 13 RGE 2 W5M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-114:10:25, 50:06:48		Data Entry Date	05-Jul-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	CMA27		Review Date	18-Jun-2012
Clear Roadway/Skew	12.2 / -20 deg. (LHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	1,980 / 2011 (A)		Dept. Review Date	12-Jul-2012
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	60			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	5070	SP	65.8	152X51	4.0,4.0,4.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	West ditch.		Gas	
Power	1 wire East ditch 30m from c/l.		Municipal	
Others	Fibre optics @ East r/w.		Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		6	6	
Roadway Width (m)	12.200			
Embankment		6	6	Berm @ 8:1 @ East & West.
Sideslope (__:1)	2.0			3:1 @ roadway then 2:1 @ pipe @ NW.
(Height of Cover(m) : 3)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		West
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		7	7	Minor cracks on both sides.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	60			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 1000)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 5070, Type: SP)				
Barrel Last Accessible Date	08-Oct-2010			Water running too deep/fast to enter. Viewed from ends, appears good.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	N	Too big to measure. Shape good.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		8	N	(Dented U/S ring South during construction, 1st ring.) P.R. 8
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		7	N	P.R. 7
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		8	N	P.R. 8
Separation (mm)	0			
Longitudinal Seams		8	N	P.R. 8
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	N	Superficial corrosion @ U/S floor of bevel to lower sidewall
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 5070, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		7	N	Steel baffles at every 2nd ring
(Type : WEIR)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	N	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 1000)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	6	
Bank Stability		5	5	Vertical banks - 4m high @ SW.
HWM (m below Top of Culvert)				no visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	6	

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) (%)	88.9/55.6	Sufficiency Rating (Last/Now) (%)	82.4/63.4	Est. Repl. Yr	2043	Maint. Req. (Y/N)	No
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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	05-Mar-2014		Previous Inspection Date	08-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							