

Bridge Culvert Inspection				
Bridge File Number	77134 -1 Bridge Culvert		Form Type	CUL1
Year Built	1986		Lot No.	4
Bridge or Town Name	CONRICH		Inspector Name	Garry Roberts
Located Over	WID - IRRIGATION C, WATERCRS-IC		Inspector Class	BR CLS A
Located On	791:04 C1 5.417		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	17-Jul-2012
Legal Land Location	SW SEC 31 TWP 24 RGE 27 W4M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-113:46:20, 51:05:11		Data Entry Date	23-Aug-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Ash Morjaria
Contract Main. Area	CMA30		Review Date	28-Jul-2012
Clear Roadway/Skew	11 / 30 deg. (RHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	240 / 2011 (A)		Dept. Review Date	24-Aug-2012
Road Classification	RLU-207G-60		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	4420	2794	RPE	39	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	OVER TOP W SIDE/RW		Gas
Power	25M S-@ W RW 1m		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	CURVE TO NORTH ON GRADE Approaches 4 corners Hazard markers all 4 corners
Vertical Alignment		6	6	
Roadway Width (m)	10.000			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 0.8)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				West
End Treatment (Concrete, Steel, Others, None)				STEEL
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		7	7	SOME ROCKS IN BEVEL
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		6	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		6	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): 4420, Rise (mm): 2794, Type: RPE)				
Barrel Last Accessible Date	17-May-2009			Water too deep to enter, viewed from ends and shape appears good.
Special Features				
Special Feature				Walkway bolted to D/S roof
(Type :)				
Special Feature				
(Type :)				
Roof		5	N	Roof not measured- lines are good PR 5
Measured Rise (mm)	2574			
Measured At Ring No.	2			
Sag (mm)	220			
Percent Sag	7			
Sidewall		6	N	PR 6
Measured Span (mm)	4555			
Measured At Ring No.	2			
Deflection (mm)	134			
Percent Deflection	3			
Floor		6	N	PR 6
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	N	PR 8
Separation (mm)	0			
Longitudinal Seams		6	N	100mm inward bulge @ ring 8 roof seam ON FLOOR & ROOF, NOT ON SIDEWALLS PR 6
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)	No			
Coating		4	N	(Some pitting @ u/s floor) May 17/09 PR 4
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): 4420, Rise (mm): 2794, Type: RPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	N	PR 5
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		N	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	Walkway bolter allross TD1 of bevel Some rocks in bevel
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Culvert)				Not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	67.3/67.5	Est. Repl. Yr	2030	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	17-Oct-2015		Previous Inspection Date	17-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							