

Bridge Culvert Inspection			
Bridge File Number	08929 -1 Bridge Culvert	Form Type	CUL1
Year Built	1984	Lot No.	4
Bridge or Town Name	CHIN	Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO CHIN COULEE WEST, 2.12.10.4, WATERCRS-ST	Inspector Class	BR CLS A
Located On	512:02 C1 23.723	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	20-Mar-2012
Legal Land Location	NW SEC 11 TWP 9 RGE 19 W4M	Data Entry By	Lauren Korte
Longitude, Latitude	-112:29:18, 49:43:24	Data Entry Date	12-Apr-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	CMA24	Review Date	23-Mar-2012
Clear Roadway/Skew	10.2 / -10 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	470 / 2011 (A)	Dept. Review Date	17-Apr-2012
Road Classification	RCU-209-110	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	3900	2500	RPE	37.8	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West ditch.	Gas	
Power	3 lines on East side.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	9	9	
Vertical Alignment	8	8	
Roadway Width (m)	10.200		
Embankment	8	8	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 3.6)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	8	8	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		West invert.
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	7	7	
Collar	6	6	Concrete collar cracked near bottom, both sides. No problems.
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	N	N	Buried.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	550			
Scour Protection		6	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	5	Very little riprap left.
Beavers (Y/N)	No			
Upstream End General Rating		6	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3900, Rise (mm): 2500, Type: RPE)				
Barrel Last Accessible Date	20-Mar-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	5	(1 ring from U/S 2340mm, centerline 2315mm, 1 ring from D/S 2380mm).
Measured Rise (mm)				
Measured At Ring No.				(15-mar-2002)
Sag (mm)	185			(7.4% sag) Rating on previous measurements and visual.
Percent Sag				
Sidewall		N	7	
Measured Span (mm)	3930			
Measured At Ring No.	5			
Deflection (mm)	30			
Percent Deflection	1			
Floor		5	N	500 rock and silt.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	7	Staggered.
Separation (mm)	0			
Longitudinal Seams		N	7	
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		5	5	Superficial corrosion.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3900, Rise (mm): 2500, Type: RPE)					
Fish Passage Adequacy		X	7		
Baffle		X	X		
(Type :)					
Waterway Adequacy		7	5	500mm silt.	
Icing (Y/N)	No				
Silting (Y/N)	Yes				
Drift (Y/N)	No				
Barrel General Rating		4	5		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		E		East.	
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		6	6		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	600				
Scour Protection		6	5	Very little rip rap left.	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		6	5		
Beavers (Y/N)	No				
Downstream End General Rating		6	5		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		4	4	Small CSP U/S - road drainage. Comes in at 40 deg. angle U/S.	
Bank Stability		5	4	Banks sloughing both ends.	
HWM (m below Top of Culvert)	1.0			No visible HWM.	
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		4	4		

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) (%)	44.4/55.6	Sufficiency Rating (Last/Now) (%)	58.2/55.1	Est. Repl. Yr	2033	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	Glen Mikesh		Previous Assistant's Name	Bernie Roseke			
Next Inspection Date	20-Jun-2015		Previous Inspection Date	22-Apr-2009			
Inspection Cycle (Default) (months)	39						
Comment							