

Bridge Culvert Inspection			
Bridge File Number	70140 -1 Bridge Culvert	Form Type	CULM
Year Built	1953	Lot No.	3
Bridge or Town Name	CHEADLE	Inspector Name	Tom Carey
Located Over	TRIBUTARY TO SERVICEBERRY CREEK, 3.33.9.13, WATERCRS-ST	Inspector Class	BR CLS A
Located On	24:04 C1 30.428	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	21-Feb-2013
Legal Land Location	NW SEC 11 TWP 24 RGE 26 W4M	Data Entry By	Anne Roberts
Longitude, Latitude	-113:32:24, 51:02:03	Data Entry Date	19-Mar-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA30	Review Date	03-Mar-2013
Clear Roadway/Skew	8 /	Dept. Reviewer Name	Tim Davies
AADT/Year	2,230 / 2011 (A)	Dept. Review Date	25-Mar-2013
Road Classification	RCU-208-110	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	3400	1700	BP	13.4			RECTANGLE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone	East row	Gas	50m + 100m North				
Power	2w/5m East and 1w 30m North	Municipal					
Others		Problem (Y/N)	No				
Remarks							

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	8	8	Junction Hwy 1 - 500 m north.
Vertical Alignment	8	8	
Roadway Width (m)	8.000		
Embankment	8	8	No vegetation yet. Silt fences still in place
Sideslope (__:1)	6.0		
(Height of Cover(m) : 0.6)			
Guardrail (Y/N)	Yes		1 split block at east, 9 blocks turned at west.
Approach Road / Embankment General Rating	8	8	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction			West end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	7	7	
Collar	5	N	(50% Covered in dirt, settled 130mm) Snow covered.
Wingwalls	X	X	
(Shape :)			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		6	N	(Heavily grassed over 200m Av. dia. rock in stream bed)
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		6	N	Completely snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		5	N	PR 5
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1700, Rise (mm): 1700, Type: BP, Cell Sequence: 1)				
Barrel Last Accessible Date	21-Feb-2013			South Box.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		4	4	Some scaling and abrasion of inside wall - up to 50mm deep.
Measured Span (mm)	1700			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	300mm deep ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	8	JOINT @ MID
Separation (mm)	25			
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		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1700, Rise (mm): 1700, Type: BP, Cell Sequence: 1)				
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1700, Rise (mm): 1700, Type: BP, Cell Sequence: 2)				
Barrel Last Accessible Date	21-Feb-2013			North box.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		4	4	Some scaling of concrete at inside wall - up to 50mm deep.
Measured Span (mm)	1700			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	300mm deep ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)	25			
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		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1700, Rise (mm): 1700, Type: BP, Cell Sequence: 2)				
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
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				East end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	5	Medium scaling.
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	N	(Well vegetated, some 150 mm rock @ SB)
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		7	N	Completely snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		5	N	PR 5
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Channel winds through marsh. Low bank, marshy u/s channel. (SLOUGHED @ SE.) Snow covered.
Bank Stability		6	N	Snow covered.
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		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							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2014	Replace 1 timber blocks at East gaurdrail. Straighten and toe nail 9 blocks at west.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	55.9/55.6	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	21-Nov-2014		Previous Inspection Date	20-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							