

Bridge Culvert Inspection				
Bridge File Number	07524 -1 Bridge Culvert		Form Type	CUL1
Year Built	1980		Lot No.	4
Bridge or Town Name	DRUMHELLER		Inspector Name	Owen Salava
Located Over	MICHICHI CREEK, 3.35, WATERCRS-ST		Inspector Class	BR CLS A
Located On	9:06 C1 2.366		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	01-Nov-2011
Legal Land Location	SW SEC 14 TWP 29 RGE 20 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-112:42:56, 51:28:27		Data Entry Date	24-Nov-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA21		Review Date	13-Nov-2011
Clear Roadway/Skew	10 / 40 deg. (RHF)		Dept. Reviewer Name	Andrew Smikles
AADT/Year	2,810 / 2010 (A)		Dept. Review Date	24-Nov-2011
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	16			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	7200	7200	AP	67.5			ARCH
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power	1 wire OH 50m U/S.		Municipal
Others	Light standard.		Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Intersection South on a curve. Campground entrance over pipe @ South. Road is superelevated over pipe, in curve. Rise 150m South.
Vertical Alignment		7	7	
Roadway Width (m)	17.500			Transverse cracks in ACP @ both sides of structure, previously sealed.
Embankment		7	7	Railing installed over headwalls only.
Sideslope (__:1)	3.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		5	5	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		Concrete with railing.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Some map cracking paint starting to peel.
Collar		X	X	
Wingwalls		7	7	Wings have moved in 25mm at top. Some cracks on both walls, minor.
(Shape :)				
Cutoff Wall		N	N	Submerged.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	5	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	Some ditch runoff scour outside wing area adjacent to wingwall has eroded 300mm. Adequate rock underneath @ SE.
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 7200, Rise (mm): 7200, Type: AP)				
Barrel Last Accessible Date	01-Nov-2011			Unable to measure due to silt.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	8	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	3.6m from roof to silt @ midspan.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		X	X	
Separation (mm)				
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): 7200, Rise (mm): 7200, Type: AP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		Concrete with railing.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		X	X	
Wingwalls		7	7	Timber wall on both sides of stream. Wingwalls have moved in 30mm at top.
(Shape :)				
Cutoff Wall		N	N	Submerged.
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			(2003/08/14)
Above/Below (mm)	800			
Scour Protection		8	8	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		8	8	
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	Timber retaining walls D/S both banks approx 100m length.
HWM (m below Top of Culvert)	1.0			
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		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) (%)	55.6/88.9	Sufficiency Rating (Last/Now) (%)	64.0/82.0	Est. Repl. Yr	2040	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	01-Aug-2013		Previous Inspection Date	09-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							