

Bridge Culvert Inspection				
Bridge File Number	74595 E-1 Bridge Culvert		Form Type	CUL1
Year Built	1998		Lot No.	4
Bridge or Town Name	CALGARY		Inspector Name	Garry Roberts
Located Over	MUNICIPAL		Inspector Class	BR CLS A
Located On	1:08 R1 3.289		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-Feb-2012
Legal Land Location	SW SEC 31 TWP 24 RGE 3 W5M		Data Entry By	Lauren Korte
Longitude, Latitude	-114:25:13, 51:05:19		Data Entry Date	14-Mar-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	CMA28		Review Date	22-Feb-2012
Clear Roadway/Skew	13 /		Dept. Reviewer Name	Tim Davies
AADT/Year	21,120 / 2010 (A)		Dept. Review Date	22-Mar-2012
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)	1			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	8200	4800	BPR	31			RECTANGLE
Special Features								
Special Features Comment								

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: MUNICIPAL 4.4m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	4.6	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)		In Advance (Y/N)	Yes
Remarks		S/B posting on W/B culvert.										

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	SOUTH R/W.		Gas
Power			Municipal
Others	Fibre optics in North ROW.		Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	
Vertical Alignment		7	7	
Roadway Width (m)	13.000			
Embankment		7	7	Settlement under SW corner approach rail.
Sideslope (___:1)	2.0			
(Height of Cover(m) : 0.3)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		North end is common to 74595W.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	Medium cracking from bridgerail post.
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		8	8	Narrow vertical cracks & hairline map cracking.
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection (Type :) (Avg. Rock Size(mm) :)		X	X	
Scour/Erosion		X	X	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8200, Rise (mm): 4800, Type: BPR)				
Barrel Last Accessible Date	14-Feb-2012			
Special Features				
Special Feature (Type :)				Safety rail on South wingwalls.
Special Feature (Type :)				Bridge curb rail and posts.
Roof		8	8	
Measured Rise (mm)	4800			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	Wide vertical cracks in sidewalls.
Measured Span (mm)	8200			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	7	Gravel covered 30%.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	Common wall seam with 74595W @ median caulked.
Separation (mm)	0			
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)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8200, Rise (mm): 4800, Type: BPR)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		South.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		X	X	
Wingwalls		8	8	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	X	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	X	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Roadway Surface		8	7	
(Type : GRAVEL)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
Lighting		X	X	
Barrel Leakage (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		7	7	
Structure In Use (Y/N)	Yes			
Grade Separation 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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	80.7/80.7	Est. Repl. Yr	2067	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	14-Nov-2013		Previous Inspection Date	22-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							