

Bridge Culvert Inspection				
Bridge File Number	73115 -1 Bridge Culvert		Form Type	CUL1
Year Built	1986		Lot No.	1
Bridge or Town Name	ARDMORE		Inspector Name	Todd Warshawski
Located Over	MURIEL CREEK, 7.5, WATERCRS-ST		Inspector Class	BR CLS B
Located On	892:02 C1 5.874		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	15-Dec-2011
Legal Land Location	NW SEC 36 TWP 61 RGE 4 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-110:28:49, 54:19:14		Data Entry Date	04-Jan-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA08		Review Date	30-Dec-2011
Clear Roadway/Skew	10.4 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	590 / 2010 (A)		Dept. Review Date	05-Jan-2012
Road Classification	RCU-210-110		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	5766	4013	RPE	40.2	152X51	4.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.		Gas
Power	3 lines East r/w.		Municipal
Others			Problem (Y/N) No
Remarks	BF tag installed on top of West headwall.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Field entrance to South.
Vertical Alignment		8	8	50 m of guardrail on each side of road with turned down ends. 3 split posts in West guardrail - photo.
Roadway Width (m)	10.400			
Embankment		8	8	2 wide transverse ACP cracks over pipe.
Sideslope (__:1)	3.0			
(Height of Cover(m) : 2.5)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		8	8	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	7	
Collar		8	6	Several wide cracks
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		8	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		4	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		4	5	
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5766, Rise (mm): 4013, Type: RPE)				
Barrel Last Accessible Date	15-Dec-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		3	2	Roof has reverse curve, ring 2-3, 8-9.-photo
Measured Rise (mm)				
Measured At Ring No.	2			
Sag (mm)	310			
Percent Sag	8			
Sidewall		5	5	R6-5878 R8-5971
Measured Span (mm)	5985			
Measured At Ring No.	3			
Deflection (mm)	219			
Percent Deflection	4			
Floor		N	N	Under ice/water
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	6	Upper 1/2 rated.
Separation (mm)				
Longitudinal Seams		N	4	Roof seam appear stressed @ plate #2 where sagged. (1 seam on each side not staggered. @ 2 & 10 o'clock.
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		6	5	Minor superficial corrosion floor. Corrosion of bolts at sagged roof seams.
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): 5766, Rise (mm): 4013, Type: RPE)				
Ponding (Y/N)	Yes			Estimated 1.4m.-Aug,2008
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		3	2	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		8	8	

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	2012	Intall struts (HSS tubing) .								
OTHER ACTION	2012	Replace 3 split guardrail posts in West side.								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	33.3/22.2	Sufficiency Rating (Last/Now) (%)	55.3/51.3	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	LRA issued 28-Dec-2011.(roof)									
Maintenance Reviewed By	Date		Estimated Total		0					
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam		Previous Assistant's Name							
Next Inspection Date	15-Mar-2015		Previous Inspection Date		12-Aug-2008					
Inspection Cycle (Default) (months)	39									
Comment										

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	2012	Intall struts (HSS tubing) .				
OTHER ACTION	2012	Replace 3 split guardrail posts in West side.				
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	33.3/22.2	Sufficiency Rating (Last/Now) (%)	55.3/51.3	Est. Repl. Yr	2035	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	LRA issued 28-Dec-2011.(roof)		Department Comments	(May 29, 2012) Replacement tentatively Sched Yr 2022		
Maintenance Reviewed By		Date		Estimated Total	0	
Proposed Long-Term Strategy						
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Dave Lam		Previous Assistant's Name			
Next Inspection Date	15-Mar-2015		Previous Inspection Date	12-Aug-2008		
Inspection Cycle (Default) (months)	39					
Comment						