			Bri	dae Culv	ert Inspection					
Bridge File Number 85017 -1 Bridge Culvert					Form Type	CUL1				
Year Built	2004				Lot No.	4				
Bridge or Town Name ANTHONY HENDAY DRIVE					Inspector Name	Wade Nanninga				
Located Over WHITEMUD CREEK, 6.95, WAT				CRS-	Inspector Class	BR CLS A	gu			
ST;TRAIL-PED					Assistant Name					
Located On	216:0	6 R1 4.991;216:0	06 L1 4.989		Assistant Class					
Water Body CI./Y	/ear				Inspection Date	26-Feb-2013				
Navigabil. Cl./Ye	ar				Data Entry By	Theresa Lacusta				
Legal Land Loca	tion SW S	EC 25 TWP 51 R	RGE 25 W4M		Data Entry Date 13-Mar-2013		314			
Longitude, Latitu	de -113:	33:47, 53:25:43			Reviewer Name	Eric Carcoux				
Road Authority	Alber	a Transportation	(AIT)		Review Date					
Contract Main. A	rea ANTH	IONY HENDAY E	DRIVE							
Clear Roadway/S	Skew 55.6 /	-5 deg. (LHF)			Dept. Reviewer Name					
AADT/Year	i	0 / 2011 (A)			Dept. Review Date	20-Mar-2013				
Road Classificati		412.4-110			Follow-Up By					
Detour Length (k	(m) 1				_					
Bridge Culvert I					_					
Number of Culve		1								
Pipe # E	Barrel	Span	Rise (or Dia.) Туре	Length	Corr. Profile	PI./Slab Thickness	Shape		
1 N	/AIN	10200	16400	AP	84.9			ARCH		
Special Features		SIDEWALK				1				
Special Features		-								
				Posting	Information					
Required Vert. C										
Posted Vertical C										
		n Bridge (m)	In Advanc	e (Y/N)	No Lane SB C	n Bridge (m)	In Advar	ice (Y/N) No		
Remarks	Not required									
				Jtilities	Located at)					
Utility Attachmen	Its				0					
Telephone	<u> </u>				Gas					
	Street lightir	ıg.			Municipal					
Others					Problem (Y/N) No					
Remarks										
					d / Embankment					
			Las			tion				
Horizontal Alignn			8		On curve.					
Vertical Alignmer		07.400	<u> </u>	9						
Roadway Width (m) 27.400					Road has frost heaved over culvert in EBL & WBL. Patched bu bump is still noticeable. Wide racks in ACP over culvert WBL a EBL.					
Embankment			8	8	Upper section to berm	Upper section to berm 6:1, lower section 1.5:1.				
Sideslope (:1) 1.0										
(Height of Cove										
Guardrail (Y/N) Yes										
Approach Road	/ Embankm	ent General Rat	ing 8	8						
				Upstr	eam End					
Culvert Compor	Culvert Component					Explanation of Condition				
Direction			Las S	st Now						
	Concrete. St	eel, CONCRETE								
Others, None)	,	,								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Headwall	1	6	6	Medium shrinkage cracks average 300mm o/c.
Collar			7	Narrow shrinkage cracks average 300mm o/c.
Wingwalls		7	7	Narrow shrinkage cracks on top of wall average 300mm o/c.
(Shape : FLARE)				Wide cracks at transition from collar to wingwalls.
Cutoff Wall		N	N	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection	1 -	9	9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Bri	dae Cu	lvert Barrel
Culvert Component		Last		
•	tion Code: MAIN. Spa			0, Rise (mm): 16400, Type: AP)
Barrel Last Accessible Date	26-Feb-2013			
Special Features	1			
Special Feature		7	Х	
(Type : SIDEWALK)				
Special Feature				-
(Type:)				
Roof		7	7	Concrete wall around skylight has medium cracks 300mm o/c.
Measured Rise (mm)				
Measured At Ring No.				1
Sag (mm)				1
Percent Sag	0			1
Sidewall		7	7	Narrow hairline shrinkage cracking at 10:00 & 2:00 o'clock every
Measured Span (mm)				250mm o/c under the open area. Cracking may be related to the
Measured At Ring No.				 change from true arch at ends to an arch with an open roof. 4 outside beams on each end are strutted with horizontal concrete beams.
Deflection (mm)				Beams have narrow cracks at 300mm o/c.
Percent Deflection	0			
Floor	0	9	9	Floor is open with riprap throughout and strutted with concrete
Bulge (mm)			5	beams that follow streambed and banks.
Measured At Ring No.				-
				1
Abrasion (Y/N) Circumferential Seams		X	X	
		^	~	1
Separation (mm)				

Alberta Transportation

		Bri	dge Cu	lvert Barrel				
Culvert Component		Last		Explanation of Condition				
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 10200, Rise (mm): 16400, Type: AP)								
Longitudinal Seams		Х	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		4	4	Few spots peeling, mostly around skylight.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	No							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy	1	9	9					
Baffle		9	9	Concrete struts may provide some baffling effect though marginal.				
(Туре:)								
Waterway Adequacy		9	9					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		7	7					
		D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Direction	1	N						
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall		5	5	Wide shrinkage crack approx 300 on average o/c.				
Collar		7	7					
Wingwalls		6	6	Lots of graffiti. Narrow shrinkage cracks on tops of walls at 300mm				
(Shape : FLARE)				o/c.				
				Wide crack at transition from collar to wingwall.				
Cutoff Wall		N	N					
Bevel End		8	8					
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm)	0							
Scour Protection		9	9					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 500)								
Scour/Erosion			9					
Beavers (Y/N)	No							
Downstream End General Rating			5					

Alberta Transportation

Structure Usage									
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment	Alignment								
Bank Stability		7	7						
HWM (m below Top of Culvert)				HWM not visible.					
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			7						
Grade Separation									
Road Alignment		7	7	On curve.					
Roadway Surface		9	9						
(Type : CONCRETE)									
Icing (Y/N)	No								
Traffic Safety Features		9	9						
Туре	Railing								
Lighting		X	X						
Barrel Leakage (Y/N)	No								
Drainage		9	9						
Structure In Use (Y/N)	Yes								
Grade Separation General Rating		7	7						

Maintenance Recommendations											
Inspector Recommendations		Year Inspector Comments			Department Comm	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) (%)		7.8/77.8	B Sufficiency Rating (Last/No (%)	ow) 7	78.6/78.6	Est. Repl. Yr 2080		Maint. Reqd. (Y/N)		No	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date		E	Estimated Total	0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Kris Boste	ris Bosters Previous			Assistant's Name						
Next Inspection Date 26-No		6-Nov-2014 Prev			ous Inspection Date 29-Apr-2011						
Inspection Cycle (Default) (months) 21						•					
Comment											