Bridge Culvert Inspection													
Bridge File Num	ber 0675	1 -1 Bridge Culve	ert			Form Type			CULM				
Year Built 1960						Lot No.	Lot No.		2				
Bridge or Town Name SUNNYBROOK					Inspec	tor Name Todd Warshawski							
Located Over SUNNYBROOK CREEK, 6.11			EK, 6.112.9	9,		Inspect	or Class		BR CLS B				
WATERCR3-51						Assista	int Name						
Water Body CLA	Voar	5 61 15.249				Assista	int Class						
Navigabil CL/Ve	ar					Inspec	tion Date		10-Jan-2013				
Legal Land Loca	ation SW/			1		Data E	ntry By		Theresa Lacusta				
Longitude Latitu		·1/·15 53·11·33		1		Data E	ntry Date		22-Jan-2013				
Longitude, Latitude -114:14:15, 53:11:33 Road Authority Alberta Transportation (AIT)					Review	er Name		Eric Carcoux					
Contract Main Area CMA11			. (/ /)			Review	/ Date		16-Jan-2013				
Clear Roadway/Skew 11.2 /						Dept. F	Reviewer Na	ame	Brent Herrick				
AADT/Year	2.80	, 0 / 2011 (A)				Dept. Review Date		3	23-Jan-2013				
Road Classificat	ion RAU	-210-110				Follow-Up By							
Detour Length (k	(m) 6					-							
Bridge Culvert	Information	1				1							
Number of Culve	erts	1											
Pipe # E	Barrel	Span	Rise (or I	se (or Dia.)			Length		Corr. Profile	PI./Slab Thickness	Shape		
1 N	MAIN	3656	2438		BP		78				RECTANGLE		
Special Features													
Special Features Comment													
				Uti	lities (L	_ocated	at)						
Utility Attachments													
Telephone	South & North					Gas							
Power	ower 3 wires North r/w.					Problem (Y/N) No							
Utners						FIODIEI	11 (17/1N) IN	0					
Remarks			Ar	nroad	ch Road	d / Emb	ankment						
				Last	Now	Explanation of Condition							
Horizontal Alignment				7	7	Entrances both directions.							
Vertical Alignment				6	6	At bottom of sag, limited sight distance. No passing.							
Roadway Width (m)		11.200											
Embankment				7	7								
Sideslope (:	1)	3.0				1							
(Height of Cov	er(m) : 9.6)												
Guardrail (Y/N)		Yes				Strike damage to noe sections along N rail.							
Approach Road	l / Embankı	ment General Ra	ting	6	6								
					Upstre	am End							
Culvert Compo	nent			Last	Now	Explan	ation of Co	onditi	ion				
Direction			S										
End Treatment (Concrete, Steel, CONCRETE Others, None)		Ē											
Headwall				6	6								
Collar				Х	X								
Wingwalls				4	4	Wingwall pulled away from barrel up to 60mm and pushed inward up					ushed inward up		
(Shape : FLARE)						to 70m wingwa 200mm	to 70mm wide. Random narrow to medium diagonal cracks in both wingwalls. Concrete spall, SE wingwall & exposed rebar 200 x 200mm						

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			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		N	N							
Bevel End			X	_						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	100									
Scour Protection		N	N	Snow covered						
(Type : NATURAL)				1						
(Avg. Rock Size(mm) :)										
Scour/Erosion		N	N							
Beavers (Y/N)	No									
Upstream End General Rating		4	4							
		Brid	dge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1828	, Rise (mm): 2438, Type: BP, Cell Sequence: 1)						
Barrel Last Accessible Date	10-Jan-2013			East cell.						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type :)										
Roof		4	5	Narrow longitudinal cracks continuous the length of the box. 5 mm						
Measured Rise (mm)				cracks on roof and sidewalls.						
Measured At Ring No.				est						
Sag (mm)										
Percent Sag	0									
Sidewall	•	4	4	Medium vertical cracks 1.5, 2.0m apart, with efforescence in East						
Measured Span (mm)	1838			wall.						
Measured At Ring No.				Bottom 400 abraided 75mm deep11-Jan-2011						
Deflection (mm)				At c/l.						
Percent Deflection	0									
Floor		N	N	Wide crack across culvert. 27-May-2009						
Bulge (mm)	0	-								
Measured At Ring No.				1						
Abrasion (Y/N)										
Circumferential Seams		4	4	Joint at mid length South end 60mm lower than North side end. Fill						
Separation (mm)	60			exposed.						
Longitudinal Seams		X	Х							
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	Х							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	ZERO									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

06751 -1 Bridge Culvert

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>): 1828	, Rise (mm): 2438, Type: BP, Cell Sequence: 1)						
Ponding (Y/N)	No									
Fish Passage Adequacy			5							
Baffle		Х	Х							
(Туре :)										
Waterway Adequacy		5	5							
Icing (Y/N)	No									
Silting (Y/N)	No			Drift at inlet						
Drift (Y/N)	Yes									
Barrel General Rating		4	4							
		Brid	dge Cul	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1828	, Rise (mm): 2438, Type: BP, Cell Sequence: 2)						
Barrel Last Accessible Date	10-Jan-2013			West cell.						
Special Features	1									
Special Feature										
(Туре :)										
Special Feature										
(Туре :)										
Roof		4	5	Transverse medium cracks in roof running length of pipe.						
Measured Rise (mm)										
Measured At Ring No.				est						
Sag (mm)										
Percent Sag	0									
Sidewall		4	4	Wide cracks in roof and walls @ 45m from U/S. Worst cracks extend						
Measured Span (mm)	1840			U/S. Wide crack 60m from U/S. Wide to narrow crack 50m from U/S.						
Measured At Ring No.				Lower 300 abraided upto 50mm deep27-May-2009 Measured at c/l.						
Deflection (mm) 8										
Percent Deflection	0									
Floor		N	N	Silt/ice covered.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)			1							
Circumferential Seams	1	3	3	South end settled 70mm. 350 x 800 x 800mm void behind West wall						
Separation (mm)	70									
Longitudinal Seams	1	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			X							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	ZERO									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 1828	, Rise (mm): 2438, Type: BP, Cell Sequence: 2)				
Ponding (Y/N)	No							
Fish Passage Adequacy		5	5					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy			5					
Icing (Y/N)	No		-					
Silting (Y/N)	No			Drift at inlet				
Drift (Y/N)	Yes							
Barrel General Rating		4	4					
Output On		D	ownstr	eam End				
Culvert Component		Last	NOW	Explanation of Condition				
	OONODETE	N						
Others, None)	CONCRETE							
Headwall	Headwall		6					
Collar		X	X					
Wingwalls		5	5	Separating from barrel 75mm. Pushed inward at top 40mm.				
(Shape : FLARE)								
Cutoff Wall		N	N					
			v	(Electric beauing at all creaked in many places, 15/Aug/2007)				
Heaving (mm)	0	~	^	(ribbins heaving at c/l, cracked in many places. 15/Aug/2007)				
Invert Above/Below Stream Bed				(Waterfall off end - photos 15 & 16, 15/Aug/2007)				
Above/Below (mm)	Above/Below (mm) 500							
Scour Protection		N	N	Snow covered				
(Type · NONE)								
(Avg. Rock Size(mm) :)								
Scour/Erosion			N	Scoured 1m along sides of channel, 10m long27-May-2009				
Beavers (Y/N)	No							
Downstream End General Ratio	ng	4	4	GR carried fwd.				
			Structu					
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment			5					
Bank Stability			5					
HWM (m below Top of Culvert)				HWM not visible				
Drift (Y/N) Yes				200m diameter drift.				
Channel Bottom DEGRADING Degrading/Aggrading				Downstream27-May-2009				
Beavers (Y/N) No								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			5					

Maintenance Recommendations											
Inspector Recommendations	Year	Inspecto	or Comments		Department Con	nments	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP	2013	Remove	drift at inlet.								
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION	2013	Repair v	oid at circumferential joint.								
OTHER ACTION	2013	Fill circu	mferential joints.								
OTHER ACTION	2013	Repair g	juardrail(9 sections)								
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 44.4/4	4.4	Sufficiency Rating (Last/ (%)	Now)	45.3/45.0	Est. Repl. Yr	2030	Maint. Re	qd. (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	Wade Nanninga			Previous Assistant's Name							
Next Inspection Date	10-Oct-2014			Previous	evious Inspection Date 26-Jan-2011						
Inspection Cycle (Default) (months)	21										
Comment											