				Brida	e Culve	ert Insp	ection						
Bridge File Number 76754 -1 Bridge Culvert					Form Type				CULM				
Year Built	1975					Lot No	••		1				
Bridge or Town Nan	ne ENTRAN	NCE			Inspector Name			Shane Hall					
Located Over		K, 8.11.118.3.	1.4.1. WA	TERC	RS-ST	Inspector Class		BR CLS A					
Located On		40:30 C1 48.626				Assistant Name							
Water Body CI./Yea					Assistant Class								
Navigabil. Cl./Year					Inspection Date		18-Oct-2012						
Legal Land Location		28 TWP 53 R		Λ		Data Entry By		Theresa Lacusta					
Longitude, Latitude				<u> </u>			intry Date		26-Nov-2012	510			
Road Authority		-118:04:48, 53:36:17 Alberta Transportation (AIT)					ver Name		Eric Carcoux				
Contract Main. Area		ransportation			Review Date			19-Nov-2012					
Clear Roadway/Ske		deg. (LHF)					Brent Herrick						
AADT/Year	2,040 / 2					Dept. Review Date		06-Dec-2012					
Road Classification	RAU-20	. ,				· · · · ·	-Up By		00-Dec-2012				
Detour Length (km)	420	9-110				FUIUW	-ор Бу						
Bridge Culvert Info													
Number of Culverts	l l	2											
Pipe # Barr		2 Span	Rise (or [Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAI	N .		1800		MP		34.1		68X13	3.5	ROUND		
2 MAI			1500		MP		34.1						
Special Features		-	1500				34.1		68X13 3.5 ROUND				
Special Features Co	ommont												
Special realules Co	Jiiiiieiit												
				Uti	lities (L	.ocated	at)						
Utility Attachments													
Telephone Ea							Gas Pipeline crosses both pipes SW-NE.						
Power		<u>.</u>					Municipal						
Others							No						
Remarks File	e tag installe	ed @ top of We	est end, Sc	outh pi	ipe.								
	0					l / Emb	ankment						
						Explanation of Condition							
Horizontal Alignment					6	Bottom of long sag, limited sight distance. Curve to the south limiting sight distance. No passing SB.							
Vertical Alignment				6	6	sight d	istance. N	lo pass	sing SB.				
Roadway Width (m)		8.800											
Embankment				Ν	3				ffected width o	f road.			
Sideslope (:1)		2.0				1:1 on							
(Height of Cover(r	m) : 3.8)												
Guardrail (Y/N)		No				Guardrail should be installed.							
Approach Road / E	Embankmen	nt General Rat	ing	2	3								
					Upstre	am End							
Culvert Componen	t			Last			nation of (Condi	tion				
(Pipe # : 1, Span T		ry Span)	ı										
Direction		<i>,</i>		W		South	pipe.						
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall				Х	X								
Collar				Х	Х								
Wingwalls	Wingwalls												
(Shape :)													

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		X	X	
Bevel End		8	5	Bottom of pipe is pitting.
Heaving (mm)	150			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm	ı):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	18-Oct-2012			
Special Features			_	
Special Feature				-
(Type:)				-
Special Feature				-
(Type :)				
Roof	1	2	2	Rise not measureable due to rock/gravel.
Measured Rise (mm)	1468			Roof flattening in last d/s barrel section from 12:00-3:00 position photo Previous measurement appears adequate.
Measured At Ring No.				
Sag (mm)	332			-
Percent Sag	18			
Sidewall	1	3	2	-
Measured Span (mm)	2109			Measured in 5th section.
Measured At Ring No.	5			-
Deflection (mm)	309			-
Percent Deflection	17			
Floor	1	N	N	Covered with rock/gravel.
Bulge (mm)				-
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams	1	3	3	D/S seam has come apart and coupler is rusted allowing infiltration
Separation (mm)	270			photo Perforations in 1st, 2nd, 3rd, 4th coupler alsophoto
Longitudinal Seams		Х	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		N	2	(Bottom half of pipe has some scaling. 28/June/2007) Under ice.
Corrosion By Soil (Y/N)	Yes			2 small perforations in first coupler, 100mm perforation in 2nd-photo,
Corrosion By Water (Y/N)	Yes			3rd 50mm, 4th coupler failed and fill spilling throughphoto

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76754 -1 Bridge Culvert

		Bri	dae Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 1800, Type: MP)					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	Yes								
Fish Passage Adequacy		4	4	Outlet above streambed.					
Baffle		X	X						
(Type :)									
Waterway Adequacy		4	4	(350 mm ice to crown at c/l. 95/02/01).					
Icing (Y/N)	Yes			(400mm ice to crown @ d/s end. (28/June/2007)					
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating		2	2						
		D	ownstr	ream End					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Span Type: Primary	(Span)								
Direction		E		South pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		X	Х						
Wingwalls		X	Х						
(Shape:)									
Cutoff Wall		X	X						
Bevel End		4	4	Pitting along lower 3/4.					
Heaving (mm)	300			Bevel end heaving causing seam separation at coupler.					
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	400								
Scour Protection		4	4	Bevel protruding from fill.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		4	4	Embankment fill settled. Scour/erosion around sides of bevel.					
Beavers (Y/N)	No								
Downstream End General Ration	ıg	4	4						
				am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		W		North pipe. Overflow pipe					
End Treatment (Concrete, Steel, Others, None)	STEEL		_						
Headwall		X	Х						
Collar		X	X						
Wingwalls		X	X						
(Shape :)									
Cutoff Wall		X	X						

Alberta Transportation

No	Last 7 N N	Now 7 7 7	Explanation of Condition Partial snow cover.
300 ABOVE 2000	N	7	
ABOVE 2000	N	7	Partial snow cover.
ABOVE 2000	1		
2000	1		-
	1		
No	1		
No	N	7	-
No	N	7	
No	N	7	
No			
	7	7	
	Brid	dge Cu	lvert Barrel
	Last	Now	Explanation of Condition
ation Code: MAIN, S			, Rise (mm): 1500, Type: MP)
18-Oct-2012			Pipe curves to South.
			-
	1		
	6	6	
1460			
			At c/l.
40			2.3%
2			_ 2.570
	5	5	At c/l.
1604			
			-
104			-
7			-
	N	6	
0			1
No			
	5	5	
400			
	Х	Х	
			1
	5	5	
Yes			
Yes			1
	18-Oct-2012 1460 40 2 1604 104 7 0 No 400 400 Yes	Last ation Code: MAIN, Span (r 18-Oct-2012 ///////////////////////////////////	Last Now Iaston Code: MAIN, Span (www.scalescolor) 18-Oct-2012

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76754 -1 Bridge Culvert

		Brid	lge Cu	Ivert Barrel					
Culvert Component		1	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1500, Type: MP)					
Ponding (Y/N)	Yes			Due to uplift on d/s bevel.					
Fish Passage Adequacy		4 4		Outlet above streambed.					
Baffle		X	X						
(Type :)									
Waterway Adequacy		5	5	(350 mm ice to crown at c/l. 95/02/01).					
Icing (Y/N)	No		U	Used as overflow pipe.					
Silting (Y/N)	Yes			-					
Drift (Y/N)	No								
Barrel General Rating		5	5						
Ç			ouveoti						
Culvert Component				eam End Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Snan)	Lasi	NOW						
Direction		E		North ning					
End Treatment (Concrete, Steel, Others, None)	STEEL	E		North pipe.					
Headwall		Х	Х						
Collar		X	X						
Wingwalls			X						
(Shape:)		X	~						
Cutoff Wall		X	Х						
Bevel End		5	5						
Heaving (mm)	200								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	2000								
Scour Protection		4	4	Bevel protruding from fill.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		4	4						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	4	4						
		6	truotu						
				re Usage Explanation of Condition					
Channel (U/S and D/S)		Last							
Alignment		5	5	Stream makes a sharp bend D/S from culverts.					
Bank Stability		4	4	Channel banks sloughing.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No			1					
Channel Bottom Degrading/Aggrading	Channel Bottom DEGRADING			D/S only					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :									
Channel General Rating		4	4						

Maintenance Recommendations												
Inspector Recommendations			Year Inspector Comments				Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITION	PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION												
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS			013	Install struts in 1 assessment unt	1800 dia pipe as per 2 il pipe is replaced.	2002						
INSTALL CONCR	INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS		20	013	Repair all seams in South culvert.								
OTHER ACTION		20	013	Re-Assess								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			22.2/22.2 Sufficiency Rating (Last/N (%)		low) 1	0.9/12.7	Est. Repl. Yr	2013	Maint. Red	qd. (Y/N)	Yes	
Special Comments for Next Inspection Monitor deflections in both spans. Low rating advisory sent 18-Aug-2005, reissued 25-Jun-2007. Monitor embankment, scour, circ. seam. Inspect annually until replaced during Hv improvement. (Assessment in 2000 indicates strutting best option20-04-2007 No struts installed in 1800 dia. pipe yet. Reissue LRA for 1800 dia. pipe 07-Feb- 2009. Complete repairs only if reassessing not viable. LRA - Reissued 21-Nov-2012					uring Hwy	Department Comments						
Maintenance Reviewed By							Date			Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Progra												
Proposed Action												
Previous Inspector's Name Shane		Shane Hall Previous			Previous A	Assistant's Name						
Next Inspection Date 18-Jul-		18-Jul-20	8-Jul-2014 Previou			Previous I	Inspection Date 24-Nov-2010					
Inspection Cycle (Inspection Cycle (Default) (months) 21											
Comment												