				B		e Culve	ort Insne	ction					
Bridge File Nun	nber	77877 -1 Bridge Culvert				o o an re	Ivert Inspection Form Type		CULM				
Year Built		1974					Lot No.		2				
Bridge or Town	Name	EDSON					Inspector Name		Todd Warshawski				
Located Over TRIBUTARY TO WOLF CREEK				F CREEK.			Inspector Class			BR CLS B			
8.11.107.26.1, WATERCRS-ST				RCRS-ST			Assistant Name						
Located On		16:06 L1 22.272					Assistant Class						
Water Body Cl.	/Year						Inspection Date		10-Aug-2012				
Navigabil. Cl./Y	'ear				Data Er				Theresa Lacusta				
Legal Land Loc	ation	NW SE	RGE 16 W5I	М		Data Entry Date			04-Sep-2012				
Longitude, Latit	tude	-116:15:31, 53:34:46						er Name		Eric Carcoux			
Road Authority	ty Alberta Transportation (AIT)							27-Aug-2012					
Contract Main.	Area	CMA13					Dept. R	eviewer N	ame	Brent Herrick			
Clear Roadway	/Skew	16.5 /					Dept. Review Date			18-Sep-2012			
AADT/Year		8,250 / 2	2011 (A)				Follow-		-				
Road Classifica	ation	RAD-41	2.4-120										
Detour Length	<u> </u>	1											
Bridge Culvert		ĺ											
Number of Culv	/erts		2	1									
Pipe #	Barrel		Span	Rise (or Di	ia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		1724	1901		SPE		67.1		152X51	2.8	ELLIPSE	
2	MAIN		-	1200		MP		60		68X13	2.8	ROUND	
Special Feature	es												
Special Feature	es Comr	ment											
					Uti	lities (L	ocated	at)					
Utility Attachme		1					0						
Telephone	North	r/w.					Gas	-1					
Power Others							Municip Problen		No				
Remarks	File to	a ottoob	ed on South be	waland			FIUDIEII	( / N)	NU				
Remarks		g allach											
						h Poar	d / Emba	nkmont					
Horizontal Aligr	Llarizantal Alianmant						1	nkment ation of C	ondi	tion			
Horizontal Alignment					.ast	Now	Explan	ation of C					
Vertical Alignm					<b>.ast</b> 7	<b>Now</b> 7	Explan	ation of C		t <b>ion</b> st. Crest to east			
Vertical Alignme	ent		12 500		.ast	Now	Explana Intersec	ation of C ction 100m					
Vertical Alignme Roadway Width	ent		12.500		<b>.ast</b> 7	<b>Now</b> 7	Explan	ation of C ction 100m					
Roadway Width	ent		12.500		<b>.ast</b> 7	<b>Now</b> 7	Explana Intersec	ation of C ction 100m					
U	ent า (m)		12.500		. <b>ast</b> 7 6	Now 7 6	Explana Intersec	ation of C ction 100m					
Roadway Width Embankment	ent n (m) _:1)	8)			. <b>ast</b> 7 6	Now 7 6	Explana Intersec	ation of C ction 100m					
Roadway Width Embankment Sideslope (	ent n (m) _:1) ver(m) :	8)			. <b>ast</b> 7 6	Now 7 6	Explana Intersection WB land	ation of C ction 100m e. ide only.	) Wes	t. Crest to east			
Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N)	ent n (m) _:1) ver(m) :		2.5 Yes		. <b>ast</b> 7 6	Now 7 6	Explana Intersection WB land	ation of C ction 100m e. ide only.	) Wes				
Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N)	ent n (m) _:1) ver(m) :		2.5 Yes		.ast 7 6 5 5	Now 7 6 6	Explana Intersect WB land North si 13 secti	ation of C ction 100m e. ide only.	) Wes	t. Crest to east			
Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N) Approach Roa	ent n (m) <u>:1)</u> ver(m) : nd / Emt		2.5 Yes	ting	.ast 7 6 5 6	Now 7 6 6 6 Vpstre	Explana Intersection WB land WB land North si 13 section	ation of C ction 100m e. ide only. ions with n	n Wes	strike damage,			
Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N) Approach Roa Culvert Compo	ent n (m) _:1) ver(m) : nd / Emt	bankmei	2.5 Yes nt General Rat	ting	.ast 7 6 5 5	Now 7 6 6 6 Vpstre	Explana Intersection WB land WB land North si 13 section	ation of C ction 100m e. ide only.	n Wes	strike damage,			
Roadway Width Embankment Sideslope (	ent n (m) _:1) ver(m) : nd / Emt	bankmei	2.5 Yes nt General Rat	L ing	ast 7 6 5 6 6 ast	Now 7 6 6 6 Vpstre	Explana Intersect WB land North si 13 section	ation of C ction 100m e. ide only. ions with n	n Wes	strike damage,		·	
Roadway Width Embankment Sideslope (	ent n (m) _:1) ver(m) : nd / Emt onent an Type	oankmei e: Prima	2.5 Yes nt General Rat	ting	ast 7 6 5 6 6 ast	Now 7 6 6 6 Vpstre	Explana Intersection WB land WB land North si 13 section	ation of C ction 100m e. ide only. ions with n	n Wes	strike damage,			
Roadway Width Embankment Sideslope (	ent n (m) _:1) ver(m) : nd / Emt onent an Type	oankmei e: Prima	2.5 Yes nt General Rat	L ing	ast 7 6 5 6 6 ast	Now 7 6 6 6 Vpstre	Explana Intersect WB land North si 13 section	ation of C ction 100m e. ide only. ions with n	n Wes	strike damage,		· · · · · · · · · · · · · · · · · · ·	
Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N) Approach Roa Culvert Compo (Pipe # : 1, Sp Direction End Treatment Others, None) Headwall	ent n (m) _:1) ver(m) : nd / Emt onent an Type	oankmei e: Prima	2.5 Yes nt General Rat	L ing	ast 7 6 5 6 6 ast	Now           7           6           0	Explana Intersect WB land North si 13 section	ation of C ction 100m e. ide only. ions with n	n Wes	strike damage,			
Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N) Approach Roa Culvert Compo	ent n (m) _:1) ver(m) : nd / Emt onent an Type	oankmei e: Prima	2.5 Yes nt General Rat	L ing	ast 7 6 5 6 6 ast 5 2 3	Now 7 6 6 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Explana Intersect WB land North si 13 section	ation of C ction 100m e. ide only. ions with n	n Wes	strike damage,			

Bridge Inspection & Maintenance System (Web 2005)

77877 -1 Bridge Culvert

		1	Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		4	4	Bevel has been damaged from a backhoe.
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	5	Loss of fill on bevel sides 200mm wide 200mm deep, 800mm long.
(Type : <b>NATURAL</b> )				Grassed in.
(Avg. Rock Size(mm) : )				
Scour/Erosion		5	5	
Beavers (Y/N)	Yes			
Upstream End General Rating		4	4	
		Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	oan (mn	n): 1724	, Rise (mm): 1901, Type: SPE)
Barrel Last Accessible Date	10-Aug-2012			
Special Features			_	
Special Feature				
(Type:)				-
Special Feature				-
(Type:)				
Roof		6	6	
Measured Rise (mm)	1815			-
Measured At Ring No.	9			-
Sag (mm)	86			-
Percent Sag	4	_	_	
Sidewall	1	6	6	Small tear at Ring 7 - construction.
Measured Span (mm)	1821			-
Measured At Ring No.	8			-
Deflection (mm)	97			-
Percent Deflection	5		_	
Floor	1	6	5	Heavy corrosion with pitting.
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams	1	6	6	
Separation (mm)	0		_	
Longitudinal Seams	1	6	6	
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		5	5	(Pitting and scaling lower 1/3.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

77877 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	5	Drop at outlet.
Baffle		X	X	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction	1	N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	Х	
Wingwalls		X	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		5	5	-
(Type : <b>NATURAL</b> )				-
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rati	ng	5	5	
				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)	0		West size
Direction	STEEL	S		West pipe.
End Treatment (Concrete, Steel, Others, None)	SIEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape: )			V	
Cutoff Wall		X	X	

			Ups <u>tre</u>	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		N	N	Clogged with debris.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1500			
Scour Protection	1	6	6	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	6	
Beavers (Y/N)	Yes			
Upstream End General Rating		6	6	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN	, Span (r	nm):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	15-Oct-2003			Not accessible
Special Features	1			
Special Feature				
(Type : )				_
Special Feature				
(Type : )				
Roof		N	N	
Measured Rise (mm)	1120			
Measured At Ring No.				
Sag (mm)	80			
Percent Sag	7			
Sidewall		N	N	
Measured Span (mm)	1320			
Measured At Ring No.				
Deflection (mm)	120			
Percent Deflection	10			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	N	(First ring from D/S, soil infiltration at bottom. Dimple coupler visible.
Separation (mm)	160			- Oct/2003
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		5	N	Minor superficial rust lower third. As viewed from d/s endSep/2010
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

77877 -1 Bridge Culvert

				Ivert Barrel		
Culvert Component			Now	Explanation of Condition		
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN	, Span (r	nm):	, Rise (mm): 1200, Type: MP)		
Ponding (Y/N)	No					
Fish Passage Adequacy		Х	X	Inlet above s.b./overflow pipe.		
Baffle		Х	Х	_		
(Type : )						
Waterway Adequacy		5	5	Blocked at inlet.		
Icing (Y/N)	No					
Silting (Y/N)	No					
Drift (Y/N)	Yes					
Barrel General Rating		4	4	(G.R. carried over since 20/July/2005.)		
		D	ownst	ream End		
Culvert Component				Explanation of Condition		
(Pipe # : 2, Span Type: Second	ary Span)					
Direction		N		West pipe.		
End Treatment (Concrete, Steel, Others, None)	STEEL					
Headwall		N	X			
Collar		N	X			
Wingwalls		N	Х			
(Shape: )			7.			
Cutoff Wall		N	X			
Bevel End		5	5			
Heaving (mm)	100					
Invert Above/Below Stream Bed	ABOVE			_		
Above/Below (mm)	800					
Scour Protection		6	6			
(Type : <b>NATURAL</b> )				_		
(Avg. Rock Size(mm) : 200)						
Scour/Erosion		6	6			
Beavers (Y/N)	No					
Downstream End General Rati	ng	5	5			
		S	Structu	ire Usage		
			Now	Explanation of Condition		
Channel (U/S and D/S)						
Alignment		7	7			
Bank Stability		6	7			
HWM (m below Top of Culvert)				HWM not visible.		
Drift (Y/N)	Yes					
Channel Bottom Degrading/Aggrading	DEGRADING					
Beavers (Y/N)	Yes					
(Fish Compensation Measure 1 :	NONE)					
(Fish Compensation Measure 2 :	NONE)					
Channel General Rating		7	7			

		Maintenance Recom	mendations					
Inspector Recommendations	Year	Inspector Comments	Department Comr		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION		Remove debris from 1200 inlet						
INSTALL CONCRETE/STEEL LINING								
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTC	DFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)		4.4 Sufficiency Rating (Last/Now) (%)	48.9/48.9	Est. Repl. Yr	2025	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name Todd Warshawski			vious Assistant's Name					
Next Inspection Date	10-May-2014	Pre	vious Inspection Date	27-Sep-2010				
Inspection Cycle (Default) (months)	21							
Comment								