				Bridg	e Culve	vert Inspection		OLU E					
			1 -1 Bridge Culvert				Form Type			CULE			
Year Built 1977 Bridge or Town Name WESTW			VARRA LIO				Lot No.		3				
						Inspector Name		Owen Salava					
		3 80 0 WATEDODS-ST				Inspector Class		BR CLS A					
Located On	15.918				Assistant Name								
Water Body Cl					Assistant Class Inspection Date		22.0 + 2042						
Navigabil. Cl./Year							Data Entry By		22-Oct-2012				
		SE SEC 36 TIME 32 DOE 4 MEM					Data Entry Date		Marcia Chavez 08-Nov-2012				
Longitude, Latitude -		_111/·26·12					Reviewer Name		John O'Brien				
		Alberta	Transportation	(AIT)			Reviewer Name Review Date			29-Oct-2012			
		CMA29	MAZO						Name				
		11.8 /					Dept. Reviewer Name Dept. Review Date						
•		3,470 / 2	2011 (A)						aic	13-Nov-2012			
Road Classific	ation	RAU-21	1.8-110				Follow-Up By						
Detour Length	(km)	5											
Bridge Culver	t Inform	nation											
Number of Culverts 1													
Pipe #	Barrel		Span	Rise (or Dia.		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	U/S		-	1800		MP		22		125X26	3.8	ROUND	
1	MAIN		-	1829		MP		44.7		75X25	4.2	ROUND	
1	D/S		-	1800		MP		22	125X26		3.8	ROUND	
Special Featur	es												
Utility Attachm		stream er	nd, south side.		Ut	ilities (l	_ocated	at)	120 &	150m West; c	rossing 200m	Fast	
Power		es at north end.					Munici	pal					
Others		5 acriotati ona.						m (Y/N)	No				
Remarks													
				Ap	oproa	ch Roa	d / Emb	ankment					
					Last	Now	Explar	nation of	Condi	tion			
Horizontal Alignment				8	8	In sag curve with good sight distance.							
Vertical Alignment				7	7								
Roadway Widt	th (m)		11.800										
Embankment				5		5	Minor	Minor erosion @ NW,		rock filled.			
Sideslope (:1)		3.0											
(Height of Co		: 13.5)											
Guardrail (Y/N) Yes		Yes				1 dama	1 damaged TT post, S rail.						
Approach Ro	ad / Eml	bankmer	nt General Rat	ing	7	7							
							am End						
Culvert Comp	onent				Last	Now	Explar	nation of	Condi	tion			
Direction End Treatmen	t (Concre	ete, Stee	I, STEEL		S								
Others, None) Headwall					X	Х							
Collar			X	X									
Wingwalls				X	X								
(Shape:)				,								
(Chape.	/												

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		N	4	Bevel heaved 200mm, piping evident under bevel.
Heaving (mm)	200	114		Dever neaved 200mm, piping evident under bever.
Invert Above/Below Stream Bed				
Above/Below (mm)	300			-
Scour Protection	300	N	4	Insufficient due to bevel heaving.
(Type : RIP RAP)		IN	4	Insumplement due to bever neaving.
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	4	Scour along SE bevel.
		IN	-	Scoul along SE bevel.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		pan (mm):	, i	Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	22-Oct-2012			
Special Features	•			
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	6	
Measured Rise (mm)	1800			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag	0			
Sidewall		N	6	
Measured Span (mm)	1820			
Measured At Ring No.	1			
Deflection (mm)	20			
Percent Deflection	1			
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	No infiltration.
Separation (mm)	180			1
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				1
-				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

00911 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: U/S, Span	(mm):	, I	Rise (mm): 1800, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy			5	
Baffle			X	
(Type:)				
Waterway Adequacy		4	4	(Ice to 0.4m of roof. 07Feb2011).
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	ıg	N	6	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1829, Type: MP)
Barrel Last Accessible Date	22-Oct-2012			42.7m with 76 x 25 corr profile & 22m each end length.
Special Features			_	
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	5	
Measured Rise (mm)	1720			
Measured At Ring No.	2			
Sag (mm)	109			
Percent Sag	6			
Sidewall		N	5	
Measured Span (mm)	1930			
Measured At Ring No.	2			
Deflection (mm)	101			5.5%.
Percent Deflection	6			
Floor		N	5	D/S circumferential seam 220mm separation.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	5	1st circum. seam measured - photo.
Separation (mm)	180			Poor alignment of new sections. U/S section is 100mm below existing, d/s is 60mm below existing. Coupler tilted to circ seam floor section near S end. No infiltration.
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		N	5	Minor superficial corrosion.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

00911 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel					
Culvert Component		Last Now		Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 1829, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		4	4	D/S end 0.5m above streambed.					
Baffle		Х	Х						
(Type:)									
Waterway Adequacy			4	(Culvert iced completely off U/S and D/S. Water may be flowing					
Icing (Y/N)	Yes			underneath. 07/Feb/2008). (Iced to 0.4m of roof. 07Feb2011).					
Silting (Y/N) No				,					
Drift (Y/N)	No								
Barrel General Rating		4	5						
		D	ownsti	ream End					
Culvert Component		Last		Explanation of Condition					
Direction		N							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape:)									
Cutoff Wall		Х	Х						
Bevel End		N	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	500								
Scour Protection		N	4						
(Type: RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		N	4	Scour hole forming D/S of culvert. Sloughing @ 90 degree bend 5m D/S.					
Beavers (Y/N)	No								
Downstream End General Ratio	ng	4	4						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			5	Bends at both ends.					
Bank Stability			5	D/S channel eroding, riprap washed D/S, minor. SE/SW ditches lined with gabions.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N) Yes				Fallen trees U/S & D/S.					
Channel Bottom Degrading/Aggrading DEGRADING									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		5	5						

		Maintenance Recom	mendations					
Inspector Recommendations	Year	Inspector Comments	Department Comm	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS		·	•					
PLACE ADDITIONAL RIP RAP	2012	Both ends.						
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING								
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTO	OFF							
REPAIR SEAMS								
OTHER ACTION	2012	Retrim slope slong u/s bevel & restore classeal.	у					
OTHER ACTION	2012	Replace guardrail post.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	ow) 44.4/55	.6 Sufficiency Rating (Last/Now) (%)	34.9/40.3	Est. Repl. Yr	2025	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	Department Comments							
Maintenance Reviewed By			Date		E	stimated Tota	I 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Owen Salava	Prev	ious Assistant's Name	Assistant's Name				
Next Inspection Date	22-Jul-2014	Prev	ious Inspection Date	Inspection Date 07-Feb-2011				
Inspection Cycle (Default) (months)	21		,					
Comment								