					Bridg	e Culve	ert Insp	ection					
Bridge File Nur	nber	72132	-1 Bridge Culve	rt			Form T	уре		CULM			
Year Built		1955					Lot No			2			
Bridge or Town	Name	LANGE	OON				Inspec	tor Name		Jon Davies			
Located Over		WID - I	RRIGATION C,	RRIGATION C, WATERCRS-IC			Inspec	tor Class		BR CLS B			
Located On		1:12 R	1 2.623;1:12 L1	2.622			Assista	ant Name					
Water Body Cl.	/Year						Assista	ant Class					
Navigabil. Cl./Y	'ear						Inspec	tion Date	ate 27-Feb-2012				
Legal Land Loc	ation	NE SE	C 12 TWP 24 R	TWP 24 RGE 27 W4M				ntry By		Anne Roberts			
Longitude, Latit	tude	-113:38	3:31, 51:02:15					ntry Date		19-Mar-2012			
Road Authority		Alberta	Transportation (AIT)				Reviewer Name Garry Roberts						
Contract Main. Area CMA30						Review	Review Date 01-Mar-2012						
Clear Roadway/Skew 30.5 /						Dept. F	Dept. Reviewer Name Tim Davies						
		/ 2010 (A)	2010 (A)				Dept. Review Date		22-Mar-2012				
		12.4-120					Follow-Up By						
Detour Length	(km)	1											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		-	1052		MP		134		68X13	2.8	ROUND	
2	MAIN		-	1052		MP		134		68X13		ROUND	
Special Feature	es												
Special Feature	es Comr	ment											
					Uti	ilities (L	ocated	at)					
Utility Attachme	ents					,		<u> </u>					
		ROW					Gas						
Power	South	Row					Municipal						
Special Features Special Features Comment Utility Attachments Telephone North ROW Power South Row Others Fibre Optics North Row Remarks					Proble	m (Y/N)	No						
Remarks													
Bridge or Town Name Located Over Located On Located On Wild - IRRIGATION C, V Located On Water Body Cl./Year Navigabil. Cl./Year Legal Land Location Longitude, Latitude Longitude, Latitude Longitude, Latitude Road Authority Contract Main. Area CMA30 Clear Roadway/Skew AADT/Year AADT/Year AADT/Year Bridge Culvert Information Number of Culverts Pipe # Barrel Barrel Span MAIN Special Features Special Features Comment Utility Attachments Telephone North ROW Power South Row Others Fibre Optics North Row				A			d / Embankment						
					Last	Now	Explanation of Condition						
					8	8	Located 300m East of BF 77563 on grade to West						
					6	6							
Roadway Width	n (m)		33.000										
Embankment					7	7							
Sideslope (_:1)		3.0										
(Height of Co	ver(m):	6.1)											
Guardrail (Y/N)			Yes										
Approach Roa	d / Emb	ankme	nt General Rat	ing	6	6							
						Unstre	am End						
Culvert Compo	onent				Last			nation of 0	Condi	tion			
		e: Prima	arv Span)			1.1011							
	71		, ,		s		West n	ipe- South	n end				
End Treatment	(Concre	ete, Stee	el, STEEL										
					Х	X							
Collar					Х	Х							
Wingwalls					Х	X							
(Shape:)													

72132 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	y Span)			
Cutoff Wall		Х	Х	
Bevel End		4	4	End 200mm of bevel is seperated
Heaving (mm)	150			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		5	4	Not completed around bevel edges
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	4	Undermined at invert
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	n (mm	ı):	, Rise (mm): 1052, Type: MP)
Barrel Last Accessible Date				Not bridge size- not accessible
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	Viewed from both ends. Shape appears adequate. Appears to be minor isolated roof dent approx 10m from D/S end
Measured Rise (mm)				minor isolated roof dent approx 10m from D/S end
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams	ı	N	N	
Separation (mm)			_	
Longitudinal Seams	I	N	N	Rivetted seams
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)	Yes			
Coating		4	4	Heavy corrosion to mid sidewall
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

		Brid	dae Cu	Ivert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	ı):	, Rise (mm): 1052, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	Light debris build up at U/S
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		N	N	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	Span)			
Direction		N		West pipe- North end
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		5	4	Estimate 200 mm separation at seam with last D/S ring
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		4	4	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		4	4	Minor Scour at invert
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	4	
				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	l -		I
Direction	 	S		East pipe- South end
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Bevel End		4	4	Bevel is rotated West. Bevel is partially blocked with drift and rock
Heaving (mm)	150			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		5	4	Not complete
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	4	Undermined at invert
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	pan (r	nm):	, Rise (mm): 1052, Type: MP)
Barrel Last Accessible Date				Not bridge size- not accessible
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	Viewed from both ends- shape appears adequate
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		N	N	Rivetted seams
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)	Yes			
Coating		4	4	Heavy corrosion up to mid sidewall
Corrosion By Soil (Y/N)	No			'
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

		Brio	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	mm):	, Rise (mm): 1052, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		5	4	Light debris buildup at U/S barrel
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		N	4	
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Snan)	Lasi	INOW	Explanation of Condition
Direction	lary Spari)	N		Fact pine North and
End Treatment (Concrete, Steel,	STEEL	IN		East pipe- North end
Others, None)			1	
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)			_	
Cutoff Wall		Х	X	
Bevel End		5	5	Minor rotation West
Heaving (mm)	150			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		4	4	Required
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		4	4	Minor Scour
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	5	
		9	Structu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)	1	Luot	11011	Explanation of condition
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	Yes			Light drift at U/S bevel
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

72132 -1 Bridge Culvert

		Mai <u>nten</u>	ance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Con	Department Comments					
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION	2012	Remove light drift and debris and barrel of East pipe	at North bevel						
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	FF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No (%)	w) 55.6/44	Sufficiency Rating (%)	g (Last/Now) 56.3/44.5	Est. Repl. Yr 2020	Maint. Re	eqd. (Y/N)	Yes		
Special Comments for Next Inspection			Department Comments						
Maintenance Reviewed By			Date		Estimated Tota	ıl O			
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name	ous Assistant's Name					
	27-Nov-2013		Previous Inspection Date	revious Inspection Date 12-Oct-2010					
	21								
inspection Cycle (Delault) (monins) —									