Bridge Culvert Inspection												
Bridge File Number 09851		351 -1 Bridge Culvert				Form Type		CULM				
Year Built 1967							Lot No.		4			
Bridge or Town Name MUNDAR			DARE				Inspect	nspector Name Jason Saly				
Located Over NORRIS			IS CREEK, 6.62.10, WATERCRS-ST				Inspect	or Class	BR CLS A			
Located On 16:22 L1			L1 1.263;16:22 R1 1.268				Assista	nt Name				
Water Body Cl./Year							Assista	nt Class				
Navigabil. Cl./Year							Inspect	Inspection Date 19-Jul-2012				
Legal Land Location SW SEC			C 13 TWP 53 RGE 20 W4M				Data E	ry By Marcia Chavez				
Longitude, Latitude -112:49:2			):22, 53:34:26 [				Data Entry Date 09-Aug-2012					
Road Authority Alberta Tr			a Transportation (AIT)				Reviewer Name John O'Brien					
Contract Main. Area CMA14			<u> </u>					Review Date 28-Jul-2012				
Clear Roadway/Skew 25 /						Dept. R	Dept. Reviewer Name Andrew Smikles					
AADT/Year		10,610	2011 (A)				Dept. Review Date		13-Aug-2012			
Road Classifica	ation	RAD-41	12.4-120				Follow-	Uр Ву				
Detour Length (	(km)	1										
Bridge Culvert	Inform	ation										
Number of Culv	/erts		2									
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2134	1549		RPP		66.5	152X51	3.0	PIPE ARCH	
2	MAIN		2134	1549		RPP		66.5	152X51	3.0	PIPE ARCH	
Special Feature	es		STORM WATE		1							
Special Feature	es Comr	nent										
	un te				Uti	lities (L	ocated	at)				
Dewer	2 wires OH 20m North of WPL c/l						Gas					
Othors	Others						Brobler					
Problem (Y/N) NO												
Remarks				Δ	nnroad	ch Road	l / Emba	nkment				
					Last	Now	Explan	ation of Condi	tion			
Horizontal Alignment				7	7	Gradua	Gradual curve 100m to the East.					
Vertical Alignme	ent				9	8						
Roadway Width	n (m)		25.000		Both			Both EBL & WBL combined.				
Embankment					4	4	Sloughing @ South end between culverts. Transverse wide cracks					
Sideslope (	:1)		5.0				both lanes immediately West of culverts.					
(Height of Co	 ver(m) :	1.7)										
Guardrail (Y/N)			No									
Approach Roa	d / Emb	bankme	nt General Rat	ing	7	7						
				-								
Culvert Comp	nont				Leat	Upstre	am End	ation of Condi	tion			
	on Type	. Prima	ary Span)		Lasi	NOW	схріан					
(Pipe # : 1, Span Type: Primary Span)					6		East ou	luort				
End Treatment (Concrete, Steel, STEEL			5		Lasi u	East cuivert.						
Headwall					Х	Х						
Collar				Х	Х							
Wingwalls				X	Х							
(Shape : )												

Bridge Inspection & Maintenance System (Web 2005)

09851 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		X	X	
Bevel End		5	5	Minor dent to crown.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		N	5	Well grassed.
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion			5	Minor embankment sloughing between 2 culverts.
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm	): 2134	, Rise (mm): 1549, Type: RPP)
Barrel Last Accessible Date	16-Dec-2010			East culvert. Pipe half full of water; viewed from ends, shape appears adequate.
Special Features				
Special Feature		5	N	
(Type : STORM WATER DRAI	N)			
Special Feature				
(Туре : )				
Roof		5	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		5	N	Inward.
Measured Span (mm)	2120			
Measured At Ring No.	14			
Deflection (mm)	14			
Percent Deflection	1			(.65%. 16Dec2010).
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	N	
Separation (mm)	0			
Longitudinal Seams		5	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Typical scaling rust at waterline.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			1

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 2134	, Rise (mm): 1549, Type: RPP)						
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									
Fish Passage Adequacy			7							
Baffle		Х	X							
(Туре : )										
Waterway Adequacy		5	5							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		5	N	GR was 5 from 16Dec2010.						
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)									
Direction		N		East culvert.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar			X							
Wingwalls		Х	X							
(Shape : )										
Cutoff Wall		Х	X							
Bevel End		6	6							
Heaving (mm)	100									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	300		1							
Scour Protection		N	6	Well vegetated.						
(Type : NATURAL)										
(Avg. Rock Size(mm) : )			1							
Scour/Erosion		N	6							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	6	6							
			Upstre	am End						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction	1	S		West culvert.						
End Treatment (Concrete, Steel, Others, None)	STEEL		1							
Headwall		X	X							
Collar		Х	X							
Wingwalls		Х	X							
(Shape : )										
Cutoff Wall		Х	Х							

	1		Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		N	5	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		N	5	Minor embankment sloughing between 2 culverts.
Beavers (Y/N)	Yes			
Upstream End General Rating	1	4	5	
		Bri	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAI	N, Span (	mm): 2	134, Rise (mm): 1549, Type: RPP)
Barrel Last Accessible Date	16-Dec-2010			East culvert. Pipe over half full: viewed from ends, shape appears adequate.
Special Features				
Special Feature				
(Type:)			_	
Special Feature				
(Type : )				
Roof		5	N	
Measured Rise (mm)			1	
Measured At Ring No				-
Sag (mm)				-
Percent Sag				-
Sidewall		5	N	Inward
Measured Span (mm)	2120			
Measured At Ring No	1/			-
Deflection (mm)	14			-
Percent Deflection	1			(.65%, 16Dec2010),
Floor	1	N	N	
Bulge (mm)				
Measured At Ring No				-
Abrasion (Y/N)	No			-
Circumferential Seams		5	N	
Separation (mm)	0	5	IN	
	U C	5	N	
Total No. of Cracked Pinge	0	5	IN	
Total No. of Pings with Two	0			
Cracked Seams	С С			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Typical scaling rust at waterline.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	NEG			

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm): 2′	134, Rise (mm): 1549, Type: RPP)
Ponding (Y/N)	No			
Fish Passage Adequacy			7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	N	GR was 5 from 16Dec2010.
g				
Culvert Composite		D	ownst	ream End
Cuivert Component	long Snor)	Last	NOW	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
	OTEEL	N		West culvert.
Others, None)	STEEL		1	
Headwall		X	X	
Collar			X	
Wingwalls			X	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		N	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) : )				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Downstream End General Ration	ng	5	5	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	Yes			1
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		8	8	

Maintenance Recommendations												
Inspector Recommendations		Year Inspector Comments			Department Comr	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	)FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	55.6/55.0	6 Sufficiency Rating (Last/No (%)	ow) t	<b>54.9/55.7</b> Est. Repl. Yr 202		2025	Maint. Re	qd. (Y/N)	No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Owen		Salava	F	Previous /	us Assistant's Name							
Next Inspection Date 19-/		-2014	F	Previous I	ous Inspection Date 16-Dec-2010							
Inspection Cycle (Default) (months) 21												
Comment												