Bridge Culvert Inspection														
Bridge File Number 7749		77490 -1	7490 -1 Bridge Culvert					уре		CUL1				
Year Built 1977		1977	977				Lot No.			2				
Bridge or Town Name EXSHAW			V				Inspector Name			Garry Roberts				
Located Over HOOD CH			CK, 2.13.56.17, WATERCRS-ST				Inspector Class			BR CLS A				
Located On 40:12 C1 3.270						Assistant Name								
Water Body Cl.	/Year						Assistant Class							
Navigabil. Cl./Y	ear						Inspect	ion Date		01-Apr-2013				
Legal Land Loc	ation	NW SEC	36 TWP 20 F	RGE 9 W5	5M		Data Er	ntry By		Lauren Korte				
Longitude, Latit	ude	-115:07:3	37, 50:44:35					ntry Date	;	24-Apr-2013				
Road Authority Alberta Tr			Transportation (AIT)					er Name	;	Tom Carey				
Contract Main. Area CMA28								Date		10-Apr-2013				
Clear Roadway/Skew 11.4 /					Dept. Reviewer Name			Tim Davies						
AADT/Year		1,690/2	012 (A)				Dept. Review Date			06-May-2013				
Road Classifica	ation	RAU-209	09-110					Up By						
Detour Length	(km)	50												
Bridge Culvert	Bridge Culvert Information													
Number of Culv	/erts	1												
Pipe #	Barrel	S	Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	2027	2240		SPE	73.8			152X51	5.0	ELLIPSE		
Special Feature	es													
Special Features Comment														
Utilities (Located at)														
Utility Attachme	ents													
Telephone				Ud5										
Power	West	row.		Munic										
Others					Problem (Y/N) No									
Remarks	Remarks													
				A		Now		ation of	Condi	tion				
Horizontal Alignment					7	7	Marked "Hood Creek"-curves 200m South & 500m North-Grade to							
Vertical Alignment				6	6	North.			curves 200m 0					
Roadway Width	Roadway Width (m)		11.400			U								
Embankment	Embankment				7	7								
Sideslope (<u>.:1)</u>		3.0				-							
(Height of Cover(m) : 10.5)														
Guardrail (Y/N) Yes					_									
Approach Roa	d / Emb	bankmen	t General Rat	ing	6	6								
						Upstre	am End							
Culvert Component			Last	Now	Explanation of Condition									
Direction			E		East.									
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall				X	Х									
Collar			X	Х										
Wingwalls				X	Х									
(Shape :)														

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		4	4	All sides of bevel are damaged - appears to be from equipment						
Heaving (mm)	50			removing rock. Corrosion with pitting on floor. North side is pushing in 400mm.						
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	150									
Scour Protection		7	7							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 500)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Upstream End General Rating		4	4							
		Brid	dge Cu	lvert Barrel						
Culvert Component Last Now Explanation of Condition										
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (m</u> m): <u>20</u> 27	, Rise (mm): 2240, Type: SPE)						
Barrel Last Accessible Date	01-Apr-2013									
Special Features	1		1							
Special Feature										
(Type :)										
Special Feature										
(Туре :)										
Roof		5	5							
Measured Rise (mm)	2097									
Measured At Ring No.	10									
Sag (mm)	158									
Percent Sag	7									
Sidewall		5	5							
Measured Span (mm)	2185									
Measured At Ring No.	10									
Deflection (mm)	158									
Percent Deflection	7									
Floor		N	N	Rocks 1.0m from roof @ d/s end- begin in R7.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	Yes									
Circumferential Seams		7	7							
Separation (mm)	0									
Longitudinal Seams		6	6	Lower seams not visible.						
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		4	4	(Corrosion with some pitting on entire floor).						
Corrosion By Soil (Y/N)	No			Floor 80% Rock Covered. Rating carried over.						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	Ivert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2027	, Rise (mm): 2240, Type: SPE)						
Fish Passage Adequacy		5	5							
Baffle		X	Х							
(Туре :)										
Waterway Adequacy		4	4	Rock within 0.8m of roof @ d/s end.						
Icing (Y/N)	No									
Silting (Y/N)	Silting (Y/N) Yes									
Drift (Y/N) No										
Barrel General Rating		4	5							
	1	D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	W								
End Treatment (Concrete, Steel, Others, None)	NONE		1							
Headwall		X	X	End of pipe aggregated to 1.0m of roof.						
Collar		X	X							
Wingwalls		X	Х							
(Shape :)										
Cutoff Wall		X	X							
Bevel End		X	X							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		6	6							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 500)										
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Downstream End General Ration	ng	6	6							
			Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			6							
Bank Stability			5							
HWM (m below Top of Culvert) -1.0				Grass on roof bolts - pipe has flowed full due to d/s aggregation.						
Drift (Y/N) Yes										
Channel Bottom AGGRADING Degrading/Aggrading				At D/S.						
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		5	6							

Maintenance Recommendations													
Inspector Recommendations		Year	Inspector Comments			Department Comments					Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP		2013	Lower D	/S channel to flush	barrel.								
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTC	DFF												
REPAIR SEAMS													
OTHER ACTION		2013	Straighten U/S bevel.										
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No	ow)	44.4/55.6		Sufficiency Rating (Last/Now) (%)		42.0/48.1		Est	st. 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 Gar		Garry Roberts F				Previous Assistant's Name							
Next Inspection Date 01-		01-Jan-2015 P					revious Inspection Date 26-May-2011						
Inspection Cycle (Default) (months) 21													
Comment													