Bridge Culvert Inspection															
Bridge File Number 78361 -1 Bridge Culvert Year Built 1980  Bridge or Town Name HIGHWOOD HOU Located Over TRIBUTARY TO STORM CK, 2.13.2 WATERCRS-ST Located On 40:10 C1 32.447  Water Body Cl./Year Navigabil. Cl./Year Legal Land Location SE SEC 31 TWP 18 RGE 7 W5M Longitude, Latitude -114:57:01, 50:33:38 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA28							Form T	уре		CUL1					
							Lot No.	ot No. 3							
Bridge or Town I	Name	HIGHW	OOD HOU				Inspect	or Name		Garry Roberts					
Located Over				RM CK, 2.	13.27.	42.3,	Inspector Class			BR CLS A					
Located On							Assistant Class								
							Assistant Class Inspection Date			24-Jun-2011					
Navigabil. Cl./Ye	ear										<u> </u>				
					M		Data Er			Alyssa Boynton					
		-114:57	:01, 50:33:38				Data Entry Date Reviewer Name			13-Jul-2011					
		Alberta	Transportation		Reviewer Name Review Date			Tom Carey							
·			·		Dept. Reviewer Name			28-Jun-2011							
Clear Roadway/	Skew	11 / 12	deg. (RHF)	lea. (RHF)						Tim Davies					
AADT/Year		440 / 20							ate	15-Jul-2011					
Road Classificat	ion	RAU-20	9-110				Follow-	ор ву							
Detour Length (F	km)	50					1								
Bridge Culvert	Informa	ation													
Number of Culve	erts		1												
Pipe #	Barrel		Span Rise (or D		Dia.) Type			Length		Corr. Profile	Pl./Slab Thickness	Shape			
1 1	MAIN		2317	2561		SPE		40		152X51	3.5	ELLIPSE			
Special Features	S														
Special Features	s Comn	nent													
					114	ilitios /I	ocated	ot)							
Utility Attachmer	nte				Οι	iilles (L	-ocaleu	al)							
Telephone	113						Gas								
Power							Municip	ادر							
Others							Problen								
Remarks	None v	visible.					1 1001011	(1/14)							
				Aı	oproac	ch Road	d / Emba	nkment							
					Last			ation of	Condi	tion					
Horizontal Alignment			5	5	At end	of curve t	o the r	north and on							
Vertical Alignment				5	5	steady	steady downhill grade to the south.								
Roadway Width (m)		11.000													
Embankment					6	6									
Sideslope (:	1)		4.0				1								
(Height of Cov		2.5)					1								
Guardrail (Y/N)			Yes	Yes			NE, 1 p	NE, 1 post broken							
Approach Road	d / Emb	ankmer	nt General Rat	ing	5	5									
						Unstre	am End								
Culvert Compo	nent				Last	Now		ation of	Condi	tion					
Direction					E	111011									
End Treatment ( Others, None)	Concre	ete, Stee	I, STEEL												
Headwall					Х	X									
Collar		Х	Х												
Wingwalls			Х	X											
(Shape: )							<u></u>								
Cutoff Wall					Х	Х									

			<b>Upstre</b>	am End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End	I	6	7	CORROSION WITH SOME PITTING @ FLOOR				
Heaving (mm)	0		,	GOTATOGICA WITH GOME THINKS & TEGOR				
Invert Above/Below Stream Bed								
Above/Below (mm)	200							
Scour Protection	200	7	7	ROCK 200 TO 1000 mm				
(Type : RIP RAP)		/		ROCK 200 TO TOOO HIIII				
(Avg. Rock Size(mm) : <b>500</b> )		7						
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		6	7					
		Brid	dge Cu	lvert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			·				
Barrel Last Accessible Date	24-Jun-2011							
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		8	8	Inward				
Measured Rise (mm) 2600								
Measured At Ring No.	3							
Sag (mm)	39							
Percent Sag	1							
Sidewall		8	8	INWARD				
Measured Span (mm)	2280			IIWARD				
Measured At Ring No.	3							
Deflection (mm)	37							
Percent Deflection	1							
	<u> </u>	-		ELOOP DENTED 5 TO 00 mm TUROUGUE				
Floor		5	5	FLOOR DENTED 5 TO 20 mm THROUGHOUT				
Bulge (mm)	0							
Measured At Ring No.	Vac							
Abrasion (Y/N)	Yes							
Circumferential Seams		8	8					
Separation (mm)	0							
Longitudinal Seams		7	7					
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)	0			_ 1N stagger				
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	Yes							
Coating		5	4	Corrosion with some pitting on floor.				
Corrosion By Soil (Y/N)	No			Coating worn off on floor.				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	POS							
	No							

		Brid		Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 2317	, Rise (mm): 2561, Type: SPE)
Fish Passage Adequacy		5	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D		ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed ABOVE				
Above/Below (mm)	300			
Scour Protection		5	5	600 mm DP x 3 m DIAMETER. ROCK LINED SCOUR HOLE
(Type: RIP RAP)				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	5	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				No visible hwm.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

78361 -1 Bridge Culvert

				Mainto	enance Re	commend	ations						
Inspector Recommendations	Yea	ar I	Inspector Co			Department Comme			nts	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS			•				·						
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING	3												
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUT	OFF												
REPAIR SEAMS													
OTHER ACTION	201	1   F	Replace 160 guardrail po	0mmx200mmx st at NE- turno	down section	T n							
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)		8/77.8	7.8 Sufficiency Rating (L		ing (Last/N	low)	<b>74.2/73.1</b> Est		t. Repl. Yr	2030	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date			E	Estimated Tota	1 0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Garry Roberts					Previous Assistant's Name							
Next Inspection Date	24-Mar-2013 Pre					Previous I	evious Inspection Date 05-Oct-2009						
Inspection Cycle (Default) (months)	21												
Comment													