13887 -1 Bridge Culvert

					Bridg	e Culve	rt Inspe	ection					
		-1 Bridge Culvert				Form Type			CUL1				
Year Built 1986		)				Lot No.	•		4				
Bridge or Town Name WAYNE			E				Inspec	tor Name		Jon Davies			
Located Over SEIU CRE			CREEK, 16.1, WATERCRS-ST				Inspec	tor Class		BR CLS B			
Located On 564:10 C1		C1 16.667	21 16.667			Assista	nt Name						
Water Body Cl.	/Year						Assista	int Class					
Navigabil. Cl./Y	'ear						Inspec	tion Date		30-Jan-2012			
Legal Land Loc	ation	SW SE	C 11 TWP 26 R	RGE 18 W	'4M		Data E	ntry By		Lauren Korte			
Longitude, Latit	tude	-112:25	5:25, 51:12:06				Data E	ntry Date		08-Mar-2012			
Road Authority		Alberta	Transportation	(AIT)			Reviewer Name			Garry Roberts			
Contract Main.	Area	CMA21					Review Date			03-Feb-2012			
Clear Roadway	/Skew	11 / -8 (	deg. (LHF)				Dept. Reviewer Name			Tim Davies			
AADT/Year		90 / 201	10 (A)				Dept. F	Review Da	ate	11-Mar-2012			
Road Classifica	ation	RLU-21	0G-90				Follow-	-Uр Ву					
Detour Length	(km)	42											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		1										
Pipe #	Barrel		Span	Rise (or	(or Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	3048		SP		50		152X51	2.8	ROUND	
Special Feature	es												
Special Feature	es Comi	ment											
								-					
Liche Aug					Uti	ilities (L	ocated.	at)					
Utility Attachme		TED 40	FAOT				0						
Telephone	LOCA	(IED 10	m EAST				Gas						
Power							Municipal						
Others							Problem (Y/N) No						
Remarks				Δ.		sh Dage	l / Emb	ankment					
				А	Last	Now		ation of		tion			
Horizontal Align	nment				9	9	LAPIGI		Conai	ш			
Horizontal Alignment Vertical Alignment				8	8								
Roadway Width (m)		11.000											
Embankment					8	7							
		3.0											
(Height of Cover(m) : <b>4.5</b> )													
Guardrail (Y/N) No													
Approach Roa	d / Eml	bankme	nt General Rat	ing	8	8							
						Upstre	am End						
Culvert Compo	onent				Last	Now		ation of	Condi	tion			
Direction		<u> </u>	W			West							
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall			Х	Х									
Collar			Х	Х									
Wingwalls			Х	Х									
(Shape: )													
Cutoff Wall					Х	X							

			Unctro	om End
Culvert Component		Last		Explanation of Condition
Bevel End		7	7	Explanation of Condition
Heaving (mm)	50			
Invert Above/Below Stream Bed				
Above/Below (mm)	500			-
Scour Protection	500	7	7	
(Type : RIP RAP)				
_ ` ` ` ` `				
(Avg. Rock Size(mm) : <b>300</b> ) Scour/Erosion		7	7	
SCOUI/ETOSIOTI		'	7	
Beavers (Y/N)	No			
			_	
Upstream End General Rating		7	7	
		Brid	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm		, Rise (mm): 3048, Type: SP)
Barrel Last Accessible Date	30-Jan-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)			_	
Roof	1	8	7	
Measured Rise (mm)	3040			Estimate.
Measured At Ring No.				
Sag (mm)	8			
Percent Sag	1			
Sidewall		8	7	
Measured Span (mm)	3008			Inward.
Measured At Ring No.	8			
Deflection (mm)	40			
Percent Deflection	1			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	7	
Separation (mm)	0			
Longitudinal Seams		8	7	
Total No. of Cracked Rings	0			1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		8	7	
Corrosion By Soil (Y/N)	No			1
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm):         Rise (mm): 3048, Type: SP)           Fish Passage Adequacy         5         7           Baffle         x         x           (Type :)         Valenway Adequacy         9         8           Icinig (Y/N)         No         Image: No         Image: No           Drift (Y/N)         No         Image: No         Image: No           Barrel General Rating         8         7         Image: No           Culver Component         1         1         No         Image: No           Direction         2         Image: No         Image: No <t< th=""><th></th><th></th><th>Brid</th><th>dge Cu</th><th>Ivert Barrel</th></t<>			Brid	dge Cu	Ivert Barrel	
Fish Passage Adequacy			Last	Now	Explanation of Condition	
Materiary Adequacy	(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 3048, Type: SP)	
Type :   Waterway Adequacy   Silting (Y/N)   No   No   Silting (Y/N)   No   Dufft (Y/N)   Dufft (Y/N)   No   Dufft (Y/N)   Dufft	Fish Passage Adequacy		5	7		
Viderway Adequacy	Baffle		Х	X		
Viderway Adequacy	(Type:)					
Coling (Y/N)   No   No   No   No   No   No   No			9	8		
Silting (Y/N)   No		No				
Drift (Y/N)		No				
Barrel General Rating						
Culvert Component			8	7		
Culvert Component         E         Volume         Explanation of Condition           Direction         E         STEEL         = Isst           End Treatment (Concrete, Siteel, Others, None)         STEEL         X         X           Collar         X         X         X           Collar         X         X         X           Wingwalls         X         X         X           (Shape:)         Cutoff Wall         X         X           Bevel End         8         6         Deformed inward 150 mm from Earth pressure.           Heaving (mm)         100         Image: I	Burror Contrain Ruting					
Direction         End Treatment (Concrete, Steel)         STEEL						
End Treatment (Concrete, Steel, None)         STEEL           Others, None)         X         X           Headwall         X         X           Collar         X         X           Wingwalls (Shape:)         X         X           Cutoff Wall         X         X           Bevel End         8         6           Heaving (mm)         100         Image: Concrete to the processor of the processor				Now		
Others, None)         Image: None)         Headwall         X         X         X         X         X         X         X         X         X         X         Cutoff Wall         X         X         X         X         Deformed inward 150 mm from Earth pressure.         Heaving (mm)         100         Image: None Inward 150 mm from Earth pressure.         Deformed inward 150 mm from Earth pressure.         Persource.         Persource.         Deformed inward 150 mm from Earth pressure.         Deformed inward 150 mm from Earth pressure.         Persource.         Persource		 	E		East	
Collar	Others, None)	STEEL		I		
No   No   No   No   No   No   No   No	Headwall		X	X		
Cutoff Wall	Collar		Х	Х		
Cutoff Wall         X         X         X           Bevel End         8         6         Deformed inward 150 mm from Earth pressure.           Heaving (mm)         100         ————————————————————————————————————	Wingwalls		Х	Х		
Bevel End	(Shape: )					
Heaving (mm)	Cutoff Wall		X	X		
Invert Above/Below Stream Bed Above/Below (mm)	Bevel End		8	6	Deformed inward 150 mm from Earth pressure.	
Above/Below (mm)         600         Image: Figure 1         Image: Figure 2         Image: Figure 3	Heaving (mm)	100				
Scour Protection         7         7           (Type : RIP RAP)         (Avg. Rock Size(mm) : 300)         T         7         7           Scour/Erosion         7         7         7         7           Beavers (Y/N)         No         Structure Usage         Last Now Explanation of Condition           Channel (U/S and D/S)         8         8         Sak Sak Stability         6         6         HWM (m below Top of Culvert)         No HWM visible.         No HWM visible. <td ro<="" td=""><td>Invert Above/Below Stream Bed</td><td>BELOW</td><td></td><td></td><td></td></td>	<td>Invert Above/Below Stream Bed</td> <td>BELOW</td> <td></td> <td></td> <td></td>	Invert Above/Below Stream Bed	BELOW			
(Type : RIP RAP)         (Avg. Rock Size(mm) : 300)       7       7         Scour/Erosion       No         Structure Usage         Last Now Explanation of Condition         Channel (U/S and D/S)         Alignment       8       8         Bank Stability       6       6         HWM (m below Top of Culvert)       No       No HWM visible.         Drift (Y/N)       No       No         Channel Bottom Degrading/Aggrading       AGGRADING       No         Beavers (Y/N)       No       No         (Fish Compensation Measure 1 : NONE)       (Fish Compensation Measure 2 : NONE)	Above/Below (mm)	600				
(Avg. Rock Size(mm) : 300)   Scour/Erosion   7   7   7	Scour Protection		7	7		
Scour/Erosion	(Type : RIP RAP)					
Beavers (Y/N)	(Avg. Rock Size(mm) : 300)					
Downstream End General Rating    Structure Usage	Scour/Erosion		7	7		
Structure Usage    Last   Now   Explanation of Condition	Beavers (Y/N)	No				
Last Now Explanation of Condition       Channel (U/S and D/S)       Alignment     8     8       Bank Stability     6     6       HWM (m below Top of Culvert)     5     No HWM visible.       Drift (Y/N)     No     No       Channel Bottom Degrading/Aggrading     AGGRADING     No       Beavers (Y/N)     No     No       (Fish Compensation Measure 1 : NONE)     (Fish Compensation Measure 2 : NONE)	Downstream End General Ratio	ng	8	6		
Last Now Explanation of Condition       Channel (U/S and D/S)       Alignment     8     8       Bank Stability     6     6       HWM (m below Top of Culvert)     5     No HWM visible.       Drift (Y/N)     No     No       Channel Bottom Degrading/Aggrading     AGGRADING     No       Beavers (Y/N)     No     No       (Fish Compensation Measure 1 : NONE)     (Fish Compensation Measure 2 : NONE)			S	tructu	re Usage	
Channel (U/S and D/S)  Alignment 8 8  Bank Stability 6 6  HWM (m below Top of Culvert) No  Orift (Y/N) No  Channel Bottom Degrading/Aggrading  Beavers (Y/N) No  (Fish Compensation Measure 1 : NONE)  (Fish Compensation Measure 2 : NONE)		No No Structure Usage				
Bank Stability  6 6  HWM (m below Top of Culvert)  Drift (Y/N)  No  Channel Bottom Degrading/Aggrading  Beavers (Y/N)  No  (Fish Compensation Measure 1 : NONE)  (Fish Compensation Measure 2 : NONE)	Channel (U/S and D/S)					
HWM (m below Top of Culvert)  Drift (Y/N)  No  Channel Bottom Degrading/Aggrading  Beavers (Y/N)  No  (Fish Compensation Measure 1 : NONE)  (Fish Compensation Measure 2 : NONE)	Alignment		8	8		
Drift (Y/N)  No  Channel Bottom Degrading/Aggrading  Beavers (Y/N)  No  (Fish Compensation Measure 1 : NONE)  (Fish Compensation Measure 2 : NONE)	Bank Stability		6	6		
Channel Bottom Degrading/Aggrading  Beavers (Y/N) No  (Fish Compensation Measure 1 : NONE)  (Fish Compensation Measure 2 : NONE)	HWM (m below Top of Culvert)				No HWM visible.	
Degrading/Aggrading  Beavers (Y/N) No  (Fish Compensation Measure 1 : NONE)  (Fish Compensation Measure 2 : NONE)	Drift (Y/N)	No				
(Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)		AGGRADING				
(Fish Compensation Measure 2 : <b>NONE</b> )	Beavers (Y/N)	No				
	(Fish Compensation Measure 1 :	NONE)				
Channel General Rating 8 8	(Fish Compensation Measure 2 :	NONE)				
	Channel General Rating		8	8		

13887 -1 Bridge Culvert

		Maintenan	ice Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Con	nments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
NSTALL CONCRETE/STEEL LINING	3						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUT	OFF						
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N (%)	Now) 88.9/77	7.8 Sufficiency Rating ( (%)	(Last/Now) 90.1/80.3	Est. Repl. Yr 2040	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	William Reard	on	Previous Assistant's Name				
Next Inspection Date	30-Apr-2015		Previous Inspection Date	24-Nov-2008			
Inspection Cycle (Default) (months)	39						