					Bridg	e Culve	ert Insp	ection						
Bridge File Num	idge File Number 07334 -1 Bridge Culvert					Form 7	Гуре	/pe CULM						
Year Built 1953						Lot No			4					
Bridge or Town Name TWIN BUTTE						Inspec	tor Name		Jon Davies					
Located Over COTTONWOOD CREEK, 2.12.22 WATERCRS-ST					22.5.17	7,	-	tor Class		BR CLS B				
Located On 6:04 C1 1.268							ant Name							
Water Body Cl./	Year	0.0.0						ant Class		 				
Navigabil. Cl./Ye								tion Date		30-Oct-2011				
Legal Land Loca		NW SE	EC 20 TWP 2 R0	3F 29 W4	IM			ntry By		Alyssa Boynton				
Longitude, Latitu			1:04, 49:08:36	<i>52 20 11</i>				ntry Date		28-Nov-2011				
Road Authority	uuo		Transportation	(AIT)				ver Name	!	Garry Roberts				
Contract Main.	Area	CMA26	· · · · · · · · · · · · · · · · · · ·	(,)				eview Date 10-Nov-2011						
Clear Roadway/		10 /						Reviewer						
AADT/Year	OKCW		2010 (A)				Dept. Review Date		01-Dec-2011					
Road Classifica	tion	RAU-2					Follow-Up By							
Detour Length (km)	30												
Bridge Culvert	Inform	ation												
Number of Culv	erts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		3980	2470		ВР		23.2				RECTANGLE		
Special Feature	s													
Special Feature	s Comr	ment												
					Ut	ilities (L	ocated	at)						
Utility Attachme	nts							,						
Telephone	West	ditch.					Gas							
Power Power							Munici	pal						
Others								m (Y/N)	No					
Remarks								()						
				Α	pproa	ch Roac	l / Emb	ankment						
					Last	Now	Explanation of Condition							
Horizontal Align	ment				6	6	Curve 70 m to South.							
Vertical Alignme	ent				6	6	Rises to North.							
Roadway Width	(m)		10.000											
Embankment					5	5								
Sideslope (:1)		3.0											
(Height of Cov		1.9)												
Guardrail (Y/N)		,	Yes											
Approach Road	d / Emk	oankme	ent General Rat	ing	6	6								
						Upstre	om Enc							
Culvert Compo	nent				Last	Now			Condi	tion				
Culvert Component Direction		W		Explanation of Condition West end, North cell.										
End Treatment (Concrete, Steel, CONCRETE				Wool	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
Others, None) Headwall		6	6											
Collar			6	6										
Wingwalls					6	6	Narrow vertical cracks.							
(Shape : FLAI	(Shape : FLARE)													
Cutoff Wall					Х	N								

07334 -1 Bridge Culvert

Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	Х						
Heaving (mm)	0								
Invert Above/Below Stream Bed				A.T					
Above/Below (mm)	0								
Scour Protection		7	7						
(Type : NATURAL)									
(Avg. Rock Size(mm):)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
		D :							
Culvert Component		Last	Now	Explanation of Condition					
	tion Code: MAIN Sna			D, Rise (mm): 2470, Type: BP, Cell Sequence: 1)					
Barrel Last Accessible Date	30-Oct-2011		1). 1000	North cell.					
Barrer Last Accessible Date	30-06-2011			Notifi Cell.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		6	6						
Measured Rise (mm)	2470								
Measured At Ring No.	1								
Sag (mm)	0								
Percent Sag	0								
Sidewall		6	6	Typical settlement cracks up to 2mm wide.					
Measured Span (mm)	1990			Some leaching.					
Measured At Ring No.	1								
Deflection (mm)	0								
Percent Deflection	0								
Floor		5	5						
Bulge (mm)	0								
Measured At Ring No.				Up to 50mm deep throughout.					
Abrasion (Y/N)	Yes								
Circumferential Seams		6	6	_					
Separation (mm)	0								
Longitudinal Seams		X	X						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)	0								
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)				<u> </u>					
Coating		X	X						
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)	1								
Camber POS/ZERO/NEG	POS								
Ponding (Y/N)	No								

07334 -1 Bridge Culvert

		Bri	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loc	ation Code: MAIN, Spa	an (mm): 1990), Rise (mm): 2470, Type: BP, Cell Sequence: 1)				
Fish Passage Adequacy		7	7					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		6	6					
		Brid	dge Cu	llvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loc	ation Code: MAIN, Spa	an (mm): 1990), Rise (mm): 2470, Type: BP, Cell Sequence: 2)				
Barrel Last Accessible Date	30-Oct-2011			South cell.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		6	6	Typical settlement/contraction cracks up sidewalls and across roof.				
Measured Rise (mm)	2470			Cracks allow some leaching 1 @ 4mm width.				
Measured At Ring No.	Measured At Ring No. 1							
Sag (mm)	0							
Percent Sag	0							
Sidewall		5	5	Cracks at side walls up to 30mm in width. Previously filled with				
Measured Span (mm)	1990			plywood in section 2.				
Measured At Ring No.	1							
Deflection (mm)	0							
Percent Deflection	0							
Floor		5	5					
Bulge (mm)	0							
Measured At Ring No.	1			Minor up to 25mm deep throughout.				
Abrasion (Y/N)	Yes							
Circumferential Seams		6	6					
Separation (mm)	5							
Longitudinal Seams		X	X					
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)	0							
Proper Lap (Y/N)								
Longitudinal Stagger (Y/N)								
Coating		X	X					
Corrosion By Soil (Y/N)								
Corrosion By Water (Y/N)								
Camber POS/ZERO/NEG	POS							
Ponding (Y/N)	No							

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1990, Rise (mm): 2470, Type: BP, Cell Sequence: 2)									
Fish Passage Adequacy		7	7						
Baffle		X	X						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		6	5						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E		East end.					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		6	6						
Collar		6	4	Wide cracks with toe of NE broken.					
Wingwalls			6	Typical diagonal cracks with stains. Some patched.					
(Shape : FLARE)			1						
Cutoff Wall		Х	N						
Bevel End		Х	X						
Heaving (mm)									
Invert Above/Below Stream Bed ABOVE									
Above/Below (mm)	300		1						
Scour Protection		6	6	Rock lined 15m dia scour hole 2m off apron					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 500)		I	1						
Scour/Erosion		6	6						
Beavers (Y/N)	Beavers (Y/N) No								
Downstream End General Ratin	ng	6	4						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			5	90 deg turn @ D/S					
Bank Stability			5						
HWM (m below Top of Culvert)				No HWM visible.					
Drift (Y/N) No									
Channel Bottom Degrading/Aggrading DEGRADING									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	·								
(Fish Compensation Measure 2 : NONE)									
Channel General Rating		5	5						

			Mainten	ance Recommer	ndations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 66.7/	55.6	Sufficiency Rating (%)	g (Last/Now)	65.7/58.1	Est. Repl. Yr	2033	Maint. Re	qd. (Y/N)	No
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	Jason Rusu			Previou	s Assistant's Name					
Next Inspection Date	30-Jul-2013			Previou	s Inspection Date	29-Nov-2009				
Inspection Cycle (Default) (months)	21									
Comment										