					Duida	o Cuby	ert Inspe	ation					
Bridge File Nur	nhar	00664	1 Pridge Culver	4	<u>-11100</u>	e Guive				CULM			
Bridge File Number 00664 -1 Bridge Culvert  Year Built 2001						Form Type Lot No.							
			N /// I						4				
Bridge or Town	Name							Inspector Name Melanie Johnson			ion		
Located Over		ST						tor Class ant Name		BR CLS B			
Located On		642:04	C1 17.051	17.051				Assistant Class					
Water Body Cl./Year							tion Date		05-Jul-2011				
Navigabil. Cl./Year						Data E			Theresa Lacus	ato.			
Legal Land Location SW SEC 1 TWP 56 RGE 25 W				E 25 W4	-M					19-Jul-2011			
- J			5:08, 53:48:13				Data Entry Date Reviewer Name				oimor		
			Transportation	(AIT)				Reviewer Name Arnold Assenheimer  Review Date 07-Jul-2011					
Contract Main.	Area	CMA09							omo	Brent Herrick			
Clear Roadway	/Skew	9 / 20 d	leg. (RHF)					Reviewer in		26-Jul-2011			
AADT/Year		2,620 /	2010 (A)				Follow-		Е	20-Jul-2011			
Road Classifica	ation	RCU-20	09-110				FOIIOW-	ор Бу					
Detour Length	(km)	6											
Bridge Culvert		ation											
Number of Culv			2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		-	4300		SP		50.6		152X51	3.0	ROUND	
2	MAIN		-	4300		SP		50.6		152X51	3.0	ROUND	
Special Feature								,			1		
Special Feature		ment											
					Ut	ilities (L	ocated	at)					
Utility Attachme	ents												
Telephone	South	r/w.					Gas	١	North	& South r/w ap	prox 50m wes	t.	
Power							Municip	oal					
Others			3 supernet) Nor				Problem (Y/N) No						
Remarks	BF tag	g installe	ed on top of Wes										
				A				ankment					
					Last	Now	Explanation of Condition						
Horizontal Align					7	7	Resident access 20m West.						
Vertical Alignm					8	8	Benched then 3:1.						
Roadway Width	n (m)		9.000										
Embankment					N	7							
Sideslope (	_:1)		4.0										
(Height of Co	ver(m):	0.7)											
Guardrail (Y/N)			No										
Approach Roa	d / Emb	oankme	nt General Rat	ing	7	7							
						<u>Upstre</u>	am End						
Culvert Compo	onent				Last	Now		ation of C	ondi	tion			
(Pipe # : <b>1, Sp</b>	an Type	e: Prima	ary Span)										
Direction					N		West p	ipe.					
End Treatment Others, None)	(Concre	ete, Stee	el, CONCRETE										
Headwall					8	8							
Collar					8	8							
Wingwalls			X	X									
(Shape: )							1						

00664 -1 Bridge Culvert

Cultivant Campananat				eam End					
Culvert Component	· Snan)	Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	/ Span)		T						
Cutoff Wall		N	N						
Bevel End		8	8						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	1000								
Scour Protection		N	8						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		N	8						
Beavers (Y/N)	No								
Deavers (1/IV)	INO								
<b>Upstream End General Rating</b>		8	8						
		D.:	des Or	Nort David					
Culvert Component		Last	Now	Ivert Barrel Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN Sn:			, Rise (mm): 4300, Type: SP)					
Barrel Last Accessible Date	10-Mar-2008	<u> </u>	. <u>/·</u>	Water too deep, pipe viewed from ends, shape and condition look					
Darrel Last Accessible Date	10-10101-2000			good.					
Special Features			1						
Special Feature									
(Type:)									
Special Feature									
(Type : ) Roof		8	N	Not measured, floor iced over10-Mar-2008					
Measured Rise (mm)		0	IN	Not measured, noor iced over10-war-2006					
Measured At Ring No.									
Sag (mm)	0			Est.					
Percent Sag									
Sidewall		8	N						
Measured Span (mm)	4293								
Measured At Ring No.	6								
Deflection (mm)	7			Inwards10-Mar-2008					
Percent Deflection	0								
Floor		N	N	Iced over.10-Mar-2008					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		8	N						
Separation (mm)	0								
Longitudinal Seams		8	N						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)				2N					
Proper Lap (Y/N) Yes									
Longitudinal Stagger (Y/N)	Yes								
Coating		8	8	No corrosion.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)									

		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 4300, Type: SP)
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		N	N	Iced over.
(Type:)				
Waterway Adequacy	I	8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	N	GR 8 was from 10-Mar-2008
				ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction	I	S		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape: )			1	
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	1000		1	
Scour Protection		N	5	Fill settled along West side of pipe, ~400mm slump on West side, appears stable & grassed.
(Type : RIP RAP)				appears stable & grassed.
(Avg. Rock Size(mm) : 300)		1	1	
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		N		East pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		N	N	

00664 -1 Bridge Culvert

Culvert Component   Last   Now   Explanation of Condition				Upstre	eam End
Bewell End	Culvert Component		Last	Now	Explanation of Condition
Heaving (mm)	(Pipe # : 2, Span Type: Second	ary Span)			
Invert Above/Below (mm)	Bevel End		8	8	
Above/Below (mm)	Heaving (mm)	0			
Scour Protection   N   8	Invert Above/Below Stream Bed	BELOW			
Crype : RIP RAP	Above/Below (mm)	1000			
Avg. Rock Size(mm) : 300)   ScourFicesion   N   8	Scour Protection		N	8	
Scour/Erosion   N   8	(Type : RIP RAP)				
Beavers (Y/N)	(Avg. Rock Size(mm) : 300)			_	
Secondary Span, Location Code: MAIN, Span (mm):	Scour/Erosion		N	8	
Bridge Culvert Component   Last   Now   Explanation of Condition   Rise (mm): 4300, Type: SP)	Beavers (Y/N)	No			
Culvert Component (Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): Rise (mm): 4300, Type: SP)           Barrel Last Accessible Date         10-Mar-2008           Special Feature	Upstream End General Rating		8	8	
Culvert Component (Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): Rise (mm): 4300, Type: SP)           Barrel Last Accessible Date         10-Mar-2008           Special Feature			Brid	dge Cu	lvert Barrel
Special Feature   10-Mar-2008   Special Feature   (Type : )   Sp	Culvert Component				
Special Feature         (Type : )           Special Feature         (Type : )           Special Feature         (Type : )           Roof         8 N           Measured Rise (mm)         8           Measured Rise (mm)         8           Measured Rise (mm)         0           Percent Sag         Est.           Sidewall         8 N           Measured Span (mm)         4327           Measured At Ring No.         6           Deflection (mm)         27           Percent Deflection         1           Floor         N N           Bulge (mm)         0           Measured At Ring No.         Abrasion (Y/N)           Abrasion (Y/N)         No           Circumferential Seams         8 N           Separation (mm)         0           Longitudinal Seams         8 N           Total No. of Rings with Two cracked Seams         2N           Min. Remaining Steel Between Cracks (mm)         2N           Proper Lap (Y/N)         Yes           Coating         8 8 8           No corrosion By Soil (Y/N)	(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 4300, Type: SP)
Special Feature   Common   C	Barrel Last Accessible Date	10-Mar-2008			
Special Feature   Common   C	Special Features				
Special Feature   Common   Corrosion By Water (Y/N)   Corrosion By Water (Y/N)   Corrosion By Soil (Y/N)   Corrosion By Water (Y/N)   Resured Ring No.   Rings not measured due to ice on floor10-Mar-2008   Rise not measured due to ice on floor10-Mar-2008   Rise not measured due to ice on floor10-Mar-2008   Est.   Sistematical end of the confidence of th					
Type :   Roof	(Type:)				
Roof   8	Special Feature				
Roof   8	(Type:)				
Measured At Ring No.   Sag (mm)   O	Roof		8	N	Rise not measured due to ice on floor10-Mar-2008
Sag (mm)   0	Measured Rise (mm)				
Percent Sag	Measured At Ring No.				
Sidewall         8         N           Measured Span (mm)         4327           Measured At Ring No.         6           Deflection (mm)         27           Percent Deflection         1           Floor         N         N           Bulge (mm)         0           Measured At Ring No.         Abrasion (Y/N)           Abrasion (Y/N)         No           Circumferential Seams         8           Separation (mm)         0           Longitudinal Seams         8           Total No. of Cracked Rings         0           Total No. of Rings with Two Cracked Seams         2N           Min. Remaining Steel Between Cracks (mm)         2N           Proper Lap (Y/N)         Yes           Longitudinal Stagger (Y/N)         Yes           Coating         8         8         No corrosion.           Corrosion By Soil (Y/N)         8         8         No corrosion.	Sag (mm)	0			
Measured Span (mm)         4327           Measured At Ring No.         6           Deflection (mm)         27           Percent Deflection         1           Floor         N         N           Bulge (mm)         0           Measured At Ring No.         Abrasion (Y/N)           Abrasion (Y/N)         No           Circumferential Seams         8           Separation (mm)         0           Longitudinal Seams         8           Total No. of Cracked Rings         0           Total No. of Rings with Two Cracked Seams         2N           Min. Remaining Steel Between Cracks (mm)         2N           Proper Lap (Y/N)         Yes           Longitudinal Stagger (Y/N)         Yes           Coating         8         8           Corrosion By Soil (Y/N)         No corrosion.	Percent Sag				Est.
Measured At Ring No.         6           Deflection (mm)         27           Percent Deflection         1           Floor         N         N           Bulge (mm)         0           Measured At Ring No.         Abrasion (Y/N)           Abrasion (Y/N)         No           Circumferential Seams         8         N           Separation (mm)         0           Longitudinal Seams         8         N           Total No. of Cracked Rings         0           Total No. of Rings with Two Cracked Seams         2N           Min. Remaining Steel Between Cracks (mm)         2N           Proper Lap (Y/N)         Yes           Longitudinal Stagger (Y/N)         Yes           Coating         8         8           Corrosion By Soil (Y/N)         No corrosion.	Sidewall		8	N	
Measured At Ring No.         6           Deflection (mm)         27           Percent Deflection         1           Floor         N         N           Bulge (mm)         0           Measured At Ring No.         Abrasion (Y/N)           Abrasion (Y/N)         No           Circumferential Seams         8         N           Separation (mm)         0           Longitudinal Seams         8         N           Total No. of Cracked Rings         0           Total No. of Rings with Two Cracked Seams         2N           Min. Remaining Steel Between Cracks (mm)         2N           Proper Lap (Y/N)         Yes           Longitudinal Stagger (Y/N)         Yes           Coating         8         8           Corrosion By Soil (Y/N)         No corrosion.	Measured Span (mm)	4327			
Deflection (mm)   27		6			
Floor		27			<1%
Bulge (mm)         0           Measured At Ring No.         Abrasion (Y/N)           Abrasion (Y/N)         No           Circumferential Seams         8 N           Separation (mm)         0           Longitudinal Seams         8 N           Total No. of Cracked Rings         0           Total No. of Rings with Two Cracked Seams         2N           Min. Remaining Steel Between Cracks (mm)         2N           Proper Lap (Y/N)         Yes           Longitudinal Stagger (Y/N)         Yes           Coating         8 8 No corrosion.           Corrosion By Soil (Y/N)         No corrosion.	Percent Deflection	1			
Measured At Ring No. Abrasion (Y/N) No  Circumferential Seams Separation (mm)  Longitudinal Seams 8 N  Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N)  Coating 8 8 N  No corrosion.	Floor		N	N	Iced over10-Mar-2008
Abrasion (Y/N) No  Circumferential Seams 8 N Separation (mm) 0  Longitudinal Seams 8 N  Total No. of Cracked Rings 0 Total No. of Rings with Two Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N) Yes  Longitudinal Stagger (Y/N) Yes  Coating 8 8 N  No corrosion.	Bulge (mm)	0			
Circumferential Seams  Separation (mm)  Longitudinal Seams  8 N  Total No. of Cracked Rings  O  Total No. of Rings with Two Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N)  Longitudinal Stagger (Y/N)  Coating  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)	Measured At Ring No.				
Separation (mm)  Longitudinal Seams  8 N  Total No. of Cracked Rings  O  Total No. of Rings with Two Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N)  Longitudinal Stagger (Y/N)  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)	Abrasion (Y/N)	No			
Longitudinal Seams  Total No. of Cracked Rings  Total No. of Rings with Two Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N)  Longitudinal Stagger (Y/N)  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)	Circumferential Seams		8	N	
Total No. of Cracked Rings 0  Total No. of Rings with Two Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N) Yes  Longitudinal Stagger (Y/N) Yes  Coating 8 8 No corrosion.  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)	Separation (mm)	0			
Total No. of Rings with Two Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N)  Longitudinal Stagger (Y/N)  Coating  8 8 No corrosion.  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)	Longitudinal Seams		8	N	
Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N)  Longitudinal Stagger (Y/N)  Coating  8 8 No corrosion.  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)		0			
Between Cracks (mm)  Proper Lap (Y/N) Yes  Longitudinal Stagger (Y/N) Yes  Coating 8 8 No corrosion.  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)	Total No. of Rings with Two Cracked Seams				
Proper Lap (Y/N) Yes  Longitudinal Stagger (Y/N) Yes  Coating 8 8 No corrosion.  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)	Min. Remaining Steel				2N
Longitudinal Stagger (Y/N) Yes  Coating 8 8 No corrosion.  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)	` '	Yes			
Coating 8 8 No corrosion.  Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)					
Corrosion By Soil (Y/N)  Corrosion By Water (Y/N)			8	8	No corrosion.
Corrosion By Water (Y/N)					1
		POS			

		Brid	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 4300, Type: SP)					
Ponding (Y/N)	No								
(Pipe # : 2, Secondary Span, Location Code: MAIN, S Ponding (Y/N)  Fish Passage Adequacy  Baffle (Type : )  Waterway Adequacy  Icing (Y/N)  Silting (Y/N)  Drift (Y/N)  No  Barrel General Rating  Culvert Component (Pipe # : 2, Span Type: Secondary Span)		8	8						
Baffle		N	N	Iced over.					
(Type:)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		8	N	GR was 8 from 10-Mar-2008					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
-	lary Span)	1	111111	1—————————————————————————————————————					
		s		East pipe.					
End Treatment (Concrete, Steel,	STEEL								
Headwall		Х	Х						
Collar		Х	X						
Wingwalls		Х	Х						
(Shape: )									
Cutoff Wall		Х	Х						
Bevel End		8	8						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	1000								
Direction End Treatment (Concrete, Steel, Others, None) Headwall  Collar  Wingwalls (Shape: ) Cutoff Wall  Bevel End Heaving (mm) 0 Invert Above/Below Stream Bed BELOW Above/Below (mm) 1000		N	8						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		N	8						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	8	8						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		5	5	80 degree bend U/S & bend on D/S.					
Bank Stability		7	7						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	DEGRADING								
Beavers (Y/N)	No								

		S	tructu	e Usage
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : I	NONE)			
(Fish Compensation Measure 2 : I	NONE)			
Channel General Rating		5	5	

			Maintena	ance Recommen	dations					
Inspector Recommendations Year Inspector Comments					Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS		·								
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	<b>3</b>									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 88.9/5	88.9/55.6 Sufficienc (%)		j (Last/Now)	81.6/64.3	Est. Repl. Yr	2049	Maint. Re	eqd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Stimated Tota	ıI 0	
Proposed Long-Term Strategy									·	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam			Previous	Assistant's Name	Bryce Clayton	1			
Next Inspection Date	05-Oct-2014			Previous	Inspection Date	10-Mar-2008				
Inspection Cycle (Default) (months)	39									
Comment										