					Brida	e Culv	ert Insp	ection						
Bridge File Number 76213 -1 Bridge Culvert				Billag	<u>e cuiv</u>	Form 7		CUL1						
Year Built 1965							Lot No.		3					
Bridge or Town Name CASTOR							tor Name	Owen Salava						
Located Over TRAIL-ANIMAL, OVER SP							tor Class	BR CLS A						
Located On 36:14 C1 16.176							ant Name							
Water Body Cl./Year							ant Class							
Navigabil. Cl./\							Inspection Date		16-Jul-2012					
Legal Land Loc		NE SEC	5 TWP 39	RGE 13 W	4M			intry By	Marcia Chave					
Longitude, Lati			:51, 52:19:5					intry Date	02-Aug-2012					
Road Authority								ver Name	John O'Brien					
Contract Main. Area CMA21			. ,				Reviev		31-Jul-2012					
Clear Roadway		10.8 /						Reviewer Nam						
AADT/Year		950 / 20)11 (A)					Review Date	07-Aug-2012					
Road Classific		RAU-21						-Up By						
Detour Length		3						, ,						
Bridge Culver														
Number of Cul			1											
Pipe #	Barrel		Span	Rise (o	r Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		1725	1981	1981 R			22	152X51	2.8	PIPE ARCH			
Special Featur	es													
Special Featur	es Comm	nent												
D : 11/		5			Po	sting l	nformat	ion						
Required Vert.														
Posted Vertica						() (() I)		ED	0 5:1 ()		() (A) A)			
Posted: Lane			Bridge (m)	In Ac	lvance ((Y/N)	No L	ane EB	On Bridge (m)	In Advanc	ce (Y/N) No			
Remarks	Not red	quirea.						- ()						
Litility Attachm	onto				Ut	lities (l	_ocated	at)						
Utility Attachme	ens						Gas							
Power							Munici	nal						
Others							Problem (Y/N) No							
Remarks							1 TODIC	11 (1/14) 140						
Remains					Annroad	ch Roa	d / Emb	ankment						
				<u>'</u>	Last	Now		Explanation of Condition						
Horizontal Alig	nment				5	5	In a curve, superelevated, limited sight distance, mild undulations,							
Vertical Alignm					6	6	passin		, 3	•	,			
		10.800												
Embankment		N	6											
		3.0												
(Height of Co		1.2)												
Guardrail (Y/N) Yes				1 broke	en guardrail po	ost along the E ra	dl.							
Approach Road / Embankment General Rating			5	5										
						Unstre	∣ am End							
Culvert Comp	onent				Last	Now		nation of Con	dition					
Direction			W											
End Treatment Others, None)	t (Concre	te, Stee	I, NONE											
Headwall			Х	X										
Collar			X	X										

			Hasta	om End						
Culvert Component				am End						
Culvert Component		Last X	Now	Explanation of Condition						
Wingwalls										
(Shape:)										
Cutoff Wall		X	X							
Bevel End		X	X							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW			Construction dents at this end galvanizing flaked off with minor rust						
Above/Below (mm)	200			spots.						
Scour Protection		N	6	Well grassed.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		N	6							
Beavers (Y/N)	No									
Upstream End General Rating		6	6							
		Bri	dae Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S			· ·						
Barrel Last Accessible Date	16-Jul-2012									
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		6	6	Hole through East crown, mower damage.						
Measured Rise (mm)										
Measured At Ring No.										
Sag (mm)	25									
Percent Sag										
Sidewall		7	7							
Measured Span (mm)	1761									
Measured At Ring No.	9									
Deflection (mm)	36			2.1%						
Percent Deflection	2			2.170						
Floor		N	N	Concrete floor, dirt covered.						
Bulge (mm)	0			1						
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		7	7							
Separation (mm)	0									
Longitudinal Seams		6	6	6 bolts, South wall, shoulder seam pulling into metal. Still functional.						
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									
		5	5	On two minor spots near West end beginning to rust. Construction						
Coating										
Coating Corrosion By Soil (Y/N)	Yes			dents. Also rust on exposed crown @ East end due to mower damage.						

		Brid	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1725	, Rise (mm): 1981, Type: RPE)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		Х	6	Minor flow from W.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		Х	Х	Square end.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	Well grassed.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
				re Usage
		Last	Now	Explanation of Condition
Grade Separation			_	
Road Alignment		7	7	Dirt covered.
Roadway Surface		N	N	
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type None				
Lighting	I	Х	X	
Barrel Leakage (Y/N)	No			

Structure Usage								
		Last	Now	Explanation of Condition				
Drainage		7	7					
Structure In Use (Y/N) Yes								
Grade Separation General Rating			7					

		Maintenance Re	commend	ations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	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	2012	Replace broken guardrail post, 1 on	E side.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 66.7/66	Sufficiency Rating (Last/l	Now)	76.6/67.2	Est. Repl. Yr	2040 Maint. Re		qd. (Y/N)	Yes
Special Comments for Next Inspection		Department Comments							
Maintenance Reviewed By	Maintenance Reviewed By					E	Estimated Tota	I 0	
Maintenance Reviewed By Date Estin Proposed Long-Term Strategy								'	
On 3-Year Program (Y/N)									
Proposed Action 2007.05.21 Revisit site again in two years to determine continued usage.									
Previous Inspector's Name	Jason Saly		Assistant's Name						
Next Inspection Date	16-Apr-2014		Previous I	nspection Date	09-Mar-2011				
Inspection Cycle (Default) (months)	21								
Comment									