77863 E-2 Bridge Culvert

Bridge Culvert Inspection														
Bridge File Number 77863 E-2 Bridge Culvert							Form Type		CULM					
Year Built 1987							Lot No.		4					
Bridge or Town	Name	EDSON	NC				Inspector Name		Todd Warshawski					
			BUTARY TO WOLF CREEK,				Inspector Class		BR CLS B					
Located On	21 25 447				Assistant Name									
Water Body Cl.	20.111					Assistant Class								
Navigabil. Cl./Y						Inspection Date		10-Aug-2012						
Legal Land Loc	C 18 TWP 53 R	18 TMD 53 DCE 15 M/5M				, ,		Theresa Lacusta						
Longitude, Latit	:39, 53:34:47			ntry Date		22-Aug-2012								
				Transportation (AIT)							Eric Carcoux			
Contract Main. Area CMA13		•				21-Aug-2012								
		3 deg. (RHF)	Aca (DUE)				•		Brent Herrick					
AADT/Year	OROW		2011 (A)					Review Da	ate	30-Aug-2012				
Road Classifica	ation		2.4-120				Follow-	Up By						
Detour Length		1	2.1 120				-							
Bridge Culvert														
Number of Culv			2											
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		_	1810		SP		86.6		152X51	3.0	ROUND		
	MAIN		_	1810		SP		73.2		152X51	3.0	ROUND		
Special Feature										.02/101	0.0	11.001.12		
Special Feature		ment												
Opeciai i catare	23 001111	illollic												
					Uti	ilities (L	ocated	at)						
Utility Attachme	ents													
Telephone							Gas							
Power							Municip	oal						
Others	Surve	y marke	r at SW inlet.				Problem (Y/N) No							
Remarks	File ta	ag attach	ed on West pip			· ·								
				A				ankment						
					Last	Now		ation of						
Horizontal Align					7 8	7	Local road intersection over top of barrels.							
Vertical Alignm				40.500		8								
Roadway Width	n (m)		12.500											
Embankment					7	7								
Sideslope (_:1)		3.0											
(Height of Co	ver(m) :	7)												
Guardrail (Y/N)			Yes	Yes										
Approach Roa	d / Eml	bankme	nt General Rat	ing	7	7								
						Upstre	am End							
Culvert Compo	onent				Last			ation of	Condi	ion				
(Pipe # : 1, Sp		e: Prima	ry Span)											
Direction					s		West pipe.							
End Treatment Others, None)	(Concre	ete, Stee	I, STEEL	3			Inlet completely submerged.							
Headwall					Х	X								
Collar				Х	X									
Wingwalls					Х	X								
(Shape:)														

			Upstre	am End					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Span Type: Primary Span)									
Cutoff Wall		Х	Х						
Bevel End		N	N	Under water.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	1000								
Scour Protection		N	N						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Upstream End General Rating		5	N	GR carried fwd from 2005.					
		Brid	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	1):	, Rise (mm): 1810, Type: SP)					
Barrel Last Accessible Date				West pipe. Completely submerged.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		N	N						
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)									
Percent Sag									
Sidewall		N	N						
Measured Span (mm)									
Measured At Ring No.									
Deflection (mm)									
Percent Deflection									
Floor		N	N						
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		N	N						
Separation (mm)									
Longitudinal Seams		N	N						
Total No. of Cracked Rings									
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		N	N	(Pitting and scaling. 1994/11/09)					
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)	Yes								

		Brid	dge Cu	Ivert Barrel				
Culvert Component L		Last Now		Explanation of Condition				
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1810, Type: SP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	Yes			(0.8m ponding. 20/July/2005)				
Fish Passage Adequacy		N	N					
Baffle		N	N					
(Type:)								
Waterway Adequacy		N	N					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		N N		G.R. was "6" from 20/July/2005.				
				ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	v Span)	1						
Direction		N		West pipe. Completely submerged.				
End Treatment (Concrete, Steel, Others, None)	STEEL			Completely Submerged.				
Headwall		X	X					
Collar		Х	Х					
Wingwalls		X	X					
(Shape:)		1	1					
Cutoff Wall		Х	X					
Bevel End		N	N	Under water.				
Heaving (mm)								
Invert Above/Below Stream Bed								
Above/Below (mm)	1000		1					
Scour Protection		N	N					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)		T	1					
Scour/Erosion	I	N	N					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	N	N	G.R. was "6" from 20/July/2005.				
				am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)	1						
Direction	ı	S		East pipe.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	Х					
Collar		Х	Х					
Wingwalls		X	X					
(Shape:)								
Cutoff Wall		X	X					

			Unstra	eam End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	arv Span)	12401	111011	Explanation of Containon
Bevel End	<i>y</i>	7	7	
Heaving (mm)	150	- '		
Above/Below (mm)	2000			
Scour Protection	2000	8		
		0	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200) Scour/Erosion				
SCOUI/EIOSION		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cı	ulvert Barrel
Culvert Component		Last	Now	
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN.			, Rise (mm): 1810, Type: SP)
Barrel Last Accessible Date	10-Aug-2012			East pipe.
0 117 /				
Special Features			1	
Special Feature				
(Type:)			1	
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	1793			
Measured At Ring No.	9			
Sag (mm)	17			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	1840			
Measured At Ring No.	9			
Deflection (mm)	30			
Percent Deflection	2			
Floor		5	5	Scaling & pitting rust along floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			1
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0	-	1	-
	U			1
Total No. of Rings with Two Cracked Seams				2N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Pitting and scaling along floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

		Brid	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1810, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	ream 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)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm) 2000				
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		1		
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		_		
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

		Maintenance R	ecommendati	ions					
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	i								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 77.8/77	7.8 Sufficiency Rating (Last (%)	/Now) 75.	5.3/77.3 Est. Repl. Yr 2030		2030	Maint. Reqd. (Y/N) No		No
Comments for required as per Bim	Manual Section	ssed for 2 or more cycles, a Level 2 in 13.9.1.5 Based on observed site evideferred to a later date.	nspection is C valuations C	Department Comments					
Maintenance Reviewed By			С	Date		E	stimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Todd Warshaw	/ski	Previous Ass	Assistant's Name					
Next Inspection Date	10-May-2014		Previous Ins	evious Inspection Date 28-Sep-2010					
Inspection Cycle (Default) (months)	21				,				
Comment									