Bridge Inspection & Maintenance System (Web 2005)

					Bridg	e Culve	ert Insp	ection							
Bridge File Number 13864 -1 Bridge Culvert							Form 7	уре		CUL1					
Year Built	19	953					Lot No			1					
Bridge or Town I	Name M	IYRNAN	М				Inspec	tor Name	Name Owen Salava						
Located Over TRIBUTARY TO SLAWA CREEK WATERCRS-ST						Э.1,	Inspector Class BR CLS A								
Located On 881:10 C1 0.200						Assistant Name									
Water Body Cl./Year						Assistant Class									
Navigabil. Cl./Year							Inspection Date 08-Aug-2011								
Legal Land Location NW SEC 11 TWP 54 RGE 9 W4N					М		Data Entry By Marcia Chavez								
Longitude, Latitude -111:13:51, 53:39:25					Data Entry Date 16-Sep-2011										
Road Authority	ransportation	(AIT)			Review Date			Jonn O'Brien							
Contract Main. A					Review Date			15-Aug-2011							
Clear Roadway/Skew 7.3 / 0 de			eg.				Dept. I			Andrew Smikles					
AADT/Year 660 / 20			10 (A)		Follow-Up By										
Road Classification RCU-20		CU-208	3-110												
Detour Length (k	(m) 3														
Bridge Culvert Information															
Number of Culverts 1										1					
Pipe # E	Barrel	S	Span Rise		Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1 MAIN 2489 1				1753		RPP		45.1		152X51	3.5	PIPE ARCH			
Special Features															
Special Features Comment															
						ilities (L	ocated	at)							
Utility Attachments															
Telephone	East dito	ch.					Gas								
Power 20m E of CL. & wire o/h.							Munici	pal							
Others Superwet cable West row							Proble	m (Y/N)	No						
Remarks Power runs over E end.(50m)															
					oproa	ch Road	d / Emb	ankment	Condi	lien					
Horizontal Alignment						NOW 7				tion					
Vertical Alignment					7	7	Jct with Hwy 45 is 300m S. Road on minor grade.								
	7.000				Locate	d at S en	d of My	/rnam.							
Roadway Width (m) 7.300															
Embankment					8	8									
Sideslope (:	1)		2.0				-								
(Height of Cov	er(m) : 4 .	.2)													
Guardrail (Y/N)			No												
Approach Road	l / Embai	nkmen	t General Rat	ing	7	7									
						Upstre	am Enc								
Culvert Compo	nent				Last	Now	Explar	ation of	Condi	tion					
Direction					W		-								
End Treatment (Others, None)	Concrete	e, Steel,	, STEEL												
Headwall					Х	Х									
Collar					Х	Х									
Wingwalls					Х	X									
(Shape :)															

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13864 -1 Bridge Culvert

			Upstre	am End								
Culvert Component		Last	Now	Explanation of Condition								
Cutoff Wall		Х	Х									
Bevel End		5	5	(2 punctures in S side, 1 dent in E								
Heaving (mm)	30		U	side. Water corrosion. 06Jul2007).								
Invert Above/Below Stream Bed				Cap't confirm invert height								
Above/Below (mm)	0											
Scour Protection		5	5									
(Type: NATURAL)												
(Avg. Rock Size(mm) :)												
Scour/Erosion		5	5	no scour.								
D (///)												
Beavers (Y/N)	Yes		1									
Upstream End General Rating			5									
		Bric	lge Cu	Ivert Barrel								
Culvert Component		Last	Now	Explanation of Condition								
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2489	, Rise (mm): 1753, Type: RPP)								
Barrel Last Accessible Date	06-Jul-2007			(Rings counted from U/S end of inlet bevel. E end R13 is part of old bevel w/ roof plates cut. Lower roof on E side R13 buckled out @ E end. 18-Mar-04). Can't confirm due to high water 1m deep; viewed from ends, appears OK.								
Special Features												
Special Feature												
(Type:)												
Special Feature												
(Туре:)												
Roof		N	N	(Rise @ E end R10 1540mm (12.2% sag).								
Measured Rise (mm)	easured Rise (mm) 1540			Span @ E end R10. 18Mar2004).								
Measured At Ring No.	easured At Ring No. 10			Notes from 18Mar2004 suggest 12.4% sag, but could be 6.5% if adjusted for 100mm bulge - not sure.								
Sag (mm)	ag (mm) 113											
Percent Sag 7												
Sidewall		6	N									
Measured Span (mm)	2580											
Measured At Ring No.	10											
Deflection (mm) 91				(06.Jul2007)								
Percent Deflection	3											
Floor		N	N	(Corroded plate at R9 - photos. 06Jul2007).								
Bulge (mm)	100											
Measured At Ring No.	9											
Abrasion (Y/N)												
Circumferential Seams		N	N	No bolts in crown area joining R13-14.								
Separation (mm)	0			Seam joining R6-7 mismatched with holes drilled through R7. Missing 12 bolts at circ. seam R5 to line up with R6 holes. No bolts in floor seam joining R6-7. 06Jul2007).								
Longitudinal Seams		3	N	(100mm steel remaining btwn cracks in longit. seams. ICE-								
Total No. of Cracked Rings	8			09Jan2001). (Cap't confirm Water too deep at d/s and of barrel								
Total No. of Rings with Two Cracked Seams	0			 (Can't confirm. Water too deep at d/s end of barrel. <100mm remaining steel of lower seam N wall of R8 - photo. 06.lul2007) 								
Min. Remaining Steel Between Cracks (mm)	100			(09Jan2001)								
Proper Lap (Y/N)	No											
Longitudinal Stagger (Y/N)	No			1								

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	1	Bric	dge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2489	, Rise (mm): 1753, Type: RPP)
Coating		5	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No		-	
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		3	3	GR carried forward from 06Jul2007.
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction	1	E		•
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape :)		,		
Cutoff Wall		Х	X	
Bevel End		N	N	(Missing bolts in roof to sidewall seam allowing plates to separate.
Heaving (mm)	0			18Mar2004).
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		,		
Scour/Erosion		6	6	No scour.
Beavers (Y/N)	Yes			Beaver dam approx 40m D/S
Downstream End General Ration	ng	4	4	GR carried forward from 18Mar2004.
		S	Structur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)			-	
Alignment		6	6	D/S channel curves to S.
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				Can't determine. Beaver at u/s end; dam 40m d/s.
Beavers (Y/N)	Yes			

		S	tructur	e Usage
	L	ast	Explanation of Condition	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6		

ation	
sport	
a Trar	
Albert	

		IMI	aintenance kecommend	ations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	ents	Tar	rget Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTC	DFF								
REPAIR SEAMS									
OTHER ACTION	2012	Dewatear & inspect b	arrel.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N((%)	ow) 33.3/3:	3.3 Sufficiency (%)	Rating (Last/Now)	14.9/45.1	Est. Repl. Yr	020	Maint. Req	d. (Y/N)	/es
Special Need to dewater ba Comments for Next Inspection	irrel to properly	inspect.		Department Comments					
Maintenance Reviewed By				Date		Estim	nated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Jason Rusu		Previous /	Assistant's Name					
Next Inspection Date	08-Nov-2014		Previous I	nspection Date	06-Jul-2007				
Inspection Cycle (Default) (months)	39								
Comment									

					Mainter	nance Recommen	dations							
Inspector Recom		Year	Inspecto	or Comments		Department Comments					r E	Est. Cost	Cat #	
SHOTCRETE RE	PAIRS													
PLACE ADDITIO														
REMOVE DRIFT														
INSTALL CONCE	RETE/STEEL LINING	G												
INSTALL STRUT	S													
INSTALL CONCE	RETE COLLAR/CUT	OFF												
REPAIR SEAMS														
OTHER ACTION			2012	Dewatea	ar & inspect barrel		Defer							
OTHER ACTION														
OTHER ACTION														_
OTHER ACTION														
Structural Cond (%)	low)	33.3/33.3 Sufficiency Rating (Last/Now) (%)			ng (Last/Now)	44.9/45.1 Est. Repl. Yr 2020		2020	Maint. Reqd. (Y/N) Yes			Yes		
Special Comments for Next Inspection							Department Comments	Tentatively programmed to be replaced in 2022. AS						
Maintenance Rev	Andrev	drew Smikles Date 22-Aug-2012 Estimated Total 0												
Proposed Long-T														
On 3-Year Progra	am (Y/N)													
Proposed Action														
Previous Inspecto	or's Name	Jason	Rusu			Previous	Assistant's Name							
Next Inspection	Date	08-No	v-2014			Previous	Inspection Date 06-Jul-2007							
Inspection Cycle	(Default) (months)	39												
Comment														