Bridge Culvert Inspection															
Bridge File Num	ber	73493 -	1 Bridge Culve	rt	Dilag	e ouive			CULM						
Year Built	1001	73493 -1 Bridge Culvert					Lot No.		4						
Bridge or Town	Nama		:GG			or Name		Owen Salava							
Located Over	INGINE							or Class		BR CLS A					
Located On			1 27.723	J-01		nt Name		DICOLO A							
Water Body Cl./	Year	11.040	71 27.720		Assistant Class										
Navigabil. Cl./Ye						ion Date		07-Feb-2012							
Legal Land Loca	C 19 TWP 39 R	2GF 16 W	/5M		Data E			Marcia Chavez							
				i						02-Mar-2012					
								ntry Date er Name		John O'Brien					
Contract Main. Area CMA18			ranoportation	Review Date			22-Feb-2012								
Clear Roadway		13.7 / 0	dea.				Dept. Reviewer Name								
AADT/Year	Citoti	840 / 20					Dept. Review Date		09-Mar-2012						
Road Classifica	tion	RAU-21					Follow-			00 11101 2012					
Detour Length (300													
Bridge Culvert															
Number of Culv			2												
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN		-	6100		SP		83.5		152X51	6.2	ROUND			
2	MAIN		_	6100		SP		83.5		152X51	6.2	ROUND			
Special Feature	·S		FLOOR ABR P		SHOT	CRETE	BEAM				'				
Special Feature	s Comi	ment	Concrete seam	repair in		ilities (L	_ocated	at)							
Utility Attachme	nts						OCCUPATION.	u.,							
Telephone	West	r/w.					Gas								
Power		.,				Municip	pal								
Others							Probler		No						
Remarks															
				A	pproac	ch Road	d / Emba	ankment							
							Explan	ation of C	ondi	tion					
Horizontal Align	Horizontal Alignment				5	5	In middle of "S" curve. Intersection 80m SE. Limited sight distance. No passing.								
Vertical Alignme	ent				5	5	No pas	sing.							
Roadway Width	(m)		13.700												
Embankment					5	5	Wlan								
Sideslope (:1)		1.0	1.0			W slope.								
(Height of Cov	ver(m) :	8)													
Guardrail (Y/N)			Yes												
Approach Road	d / Eml	oankmer	nt General Rat	ing	5	5									
						Upstre	am End								
Culvert Compo	nent				Last	Now	Explan	ation of C	ondi	tion					
(Pipe # : 1, Spa	an Type	e: Prima	ry Span)												
Direction					W		North c	ulvert.							
End Treatment (Concrete, Steel, Others, None)															
Headwall					6 6										
Collar				6	6	Crack near bevel end.									
Wingwalls					Х	Х									
(Shape:)	(Snape:)														

Upstream End										
Culvert Component				Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)	1	111111							
Cutoff Wall	,	N	N	Buried.						
			_							
Bevel End	1	5	5	Superficial rust at normal flow height.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	900									
Scour Protection		7	N	Snow covered.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 800)										
Scour/Erosion		7	N							
Beavers (Y/N)	No									
Upstream End General Rating		5	5							
		_D.::	dae Cr	lvert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN Sna			, Rise (mm): 6100, Type: SP)						
Barrel Last Accessible Date	07-Feb-2012	<u> </u>	·/·	, itise (iiiii). 0100, Type. Of)						
Dairei Last Accessible Date	07-1 65-2012									
Special Features										
Special Feature		6	6							
(Type : FLOOR ABR PLATES										
Special Feature										
(Type:)										
Roof		6	6	(At 2/3 L 5832 to top of fish baffle. 04May2010). Unable to measure due to ice.						
Measured Rise (mm)	5832			Onable to measure due to ice.						
Measured At Ring No.										
Sag (mm)	0									
Percent Sag	0		_							
Sidewall		6	6	Not measured. Unable to access 1/2 height.						
Measured Span (mm)										
Measured At Ring No.										
Deflection (mm)	0									
Percent Deflection										
Floor	I	6	N	(Galvanize missing on bottom plates due to abrasion. 04May2010).						
Bulge (mm)				ice covered.						
Measured At Ring No.										
Abrasion (Y/N)	Yes									
Circumferential Seams		6	6	Missing bolts at 3 plate overlap.						
Separation (mm)	0									
Longitudinal Seams		6	6	Double crest bolts throughout.						
Total No. of Cracked Rings	0			1N						
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		6	6	Superficial rust.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):	, Rise (mm): 6100, Type: SP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		6	N	(Superficial rust - photo. 04May2010). Ice covered.
(Type: WEIR)				
Waterway Adequacy		8	7	(Floor covered with cobbles. 04May2010). Ice covered.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes		_	
Barrel General Rating		6	6	
	ı			eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	1_		I
Direction		E		North culvert.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	
Collar		6	6	
Wingwalls		X	Х	
(Shape:)				
Cutoff Wall		N	N	Buried.
Bevel End		5	5	Superficial rust at flow line from abrasion.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	800			
Scour Protection		5	5	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 800)				
Scour/Erosion		5	N	Large erosion pool, (approx 2m deep, estimate - photos. 04May2010).
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		W		South culvert.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	
Collar		7	7	Minor cracking.
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		N	N	Buried.

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Bevel End		6	6	Superficial rust at flow line.
Heaving (mm)	0			(Some bolts missing in longitudinal seams near the invert. 04May2010).
Invert Above/Below Stream Bed	BELOW			o imay2010).
Above/Below (mm)	100			
Scour Protection	1.00	7	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 800)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S			, Rise (mm): 6100, Type: SP)
Barrel Last Accessible Date	07-Feb-2012			
Special Features				
Special Feature		6	6	4 beams: 3 South wall, 1 North.
(Type : SHOTCRETE BEAM)				
Special Feature				
(Type:)				
Roof		6	6	6009 to gravel bottom @ 2/3 L.
Measured Rise (mm)	6009			
Measured At Ring No.				Estimate.
Sag (mm)	0			
Percent Sag	0			
Sidewall		6	6	Unable to measure, too high.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		6	N	(Galvanize missing on bottom plates due to abrasion. 04May2010) -
Bulge (mm)	0			lce covered. Abrasion gouges @ 5 & 7 o'clock along length - photo.
Measured At Ring No.				5, 15, 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1
Abrasion (Y/N)	Yes			
Circumferential Seams		6	6	Missing bolts at 3 plate overlap.
Separation (mm)	0			
Longitudinal Seams		6	6	
Total No. of Cracked Rings	0			Double crest bolts throughout.
Total No. of Rings with Two Cracked Seams				1N
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	Superficial rust.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel										
Culvert Component				Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 6100, Type: SP)						
Ponding (Y/N)	No									
Fish Passage Adequacy		6	6	High velocities.						
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		8	8							
Icing (Y/N)	Yes									
Silting (Y/N)	No									
Drift (Y/N)	Yes		1							
Barrel General Rating		6	6							
		D	ownstr	ream End						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction		Е		South culvert.						
End Treatment (Concrete, Steel, Others, None)	CONCRETE									
Headwall		6	6							
Collar		6	6							
Wingwalls		X	X							
(Shape:)										
Cutoff Wall		N	N							
Bevel End		5	5	Some minor abrasion.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	1000		1							
Scour Protection		5	5							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 800)										
Scour/Erosion		5	N	(Large scour pool at outlet - photo. Approx 1.5m deep, estimate. 04May2010) - Snow covered.						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	5	5							
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)		5	T _							
Alignment			5	Flow hitting between pipes - photo.						
Bank Stability			7	Vertical rock faces U/S and D/S.						
HWM (m below Top of Culvert)				HWM not visible. Some large debris in channel.						
Drift (Y/N)	Yes									
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N) No										
(Fish Compensation Measure 1 : (Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			-						
Channel General Rating	HONL)	5	5							
Thanks Johnson Rathing		_		I and the second						

Maintenance Recommendations													
Inspector Recommendations		Year Inspector Comments				Department Cor	mments	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS					·								
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTO)FF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No. (%)	ow)	66.7/66.	7	Sufficiency Ratir	ng (Last/Now)	67.2/63.7	Est. Rep	l. Yr	2030	Maint. Re	eqd. (Y/N)	No	
Special Comments for Next Inspection						Department Comments							
Maintenance Reviewed By						Date			E	Estimated Tota	I 0		
Proposed Long-Term Strategy											·		
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Owen		Owen Salava				Previous Assistant's Name							
Next Inspection Date 07-No		/-2013			Previou	Previous Inspection Date 04-May-2010							
Inspection Cycle (Default) (months) 21													
Comment													