				Brida	e Culve	ert Insp	ection							
Bridge File Number	r 73072 -	73072 -1 Bridge Culvert				Form 1			CUL1					
Year Built	1991					Lot No	• •		2					
Bridge or Town Na		ION				Inspector Name		Jason Saly						
Located Over		ARY TO VER	MILION R	IVER.	6.5.9.	Inspector Class			BR CLS A					
		CRS-ST				Assistant Name								
Located On 16:30 R1 11.159;16:30 L1 11.161						Assista	ant Class							
Water Body Cl./Year							tion Date		18-Jul-2012					
Navigabil. Cl./Year						Data Entry By			Marcia Chavez					
Legal Land Location NE SEC 29 TWP 50 RGE 5 W4M						Data Entry Date			31-Jul-2012					
Longitude, Latitude	-110:41:	36, 53:20:39				Reviewer Name			John O'Brien					
Road Authority		Transportation	(AIT)			Review Date			28-Jul-2012					
Contract Main. Area	ea CMA15					Dept. Reviewer Nan								
Clear Roadway/Ske	ew 26 / -30	deg. (LHF)				Dept. Review Date			02-Aug-2012					
AADT/Year	7,400 / 2	2011 (A)				Follow-Up By								
Road Classification	n RFD-41	2.4-130				- Onew op By								
Detour Length (km)														
Bridge Culvert Info														
Number of Culverts		1	T				T							
Pipe # Bar	rrel	Span	Rise (or	Dia.) Type		Length			Corr. Profile	Pl./Slab Thickness	Shape			
1 MA	JIN .	2200			MP		77		125X26	2.8	ROUND			
Special Features	MAIN - 2200								1207120	12.0	INGONE			
Special Features C	Comment													
oposiai i oataroo o	Johnnork													
				Uti	lities (L	ocated	at)							
Utility Attachments														
Telephone North ditch						Gas								
Power 31	lines 30 m N	s 30 m North of c/I WBL.				Municipal								
Others				Problem (m (Y/N)	No						
Remarks														
			Ap			/ Embankment								
						Explanation of Condition								
Horizontal Alignme	ent			7	7	Curve to East 125 m, good sight distance. Slight grade to West. Roadway superelevated across pipe.								
Vertical Alignment				7	/									
Roadway Width (m) 26.000														
Embankment		_		7	7									
Sideslope (:1) 3.5					Cover	Cover over D/S end.								
(Height of Cover((m) : 2.5)]								
Guardrail (Y/N) Yes					Offset	Offset from shoulders.								
Approach Road / I	Embankmer	nt General Rat	ing	7	7									
					Upstre	am End								
Culvert Componer	nt			Last	Now	1	nation of	Condi	tion					
Direction				S										
End Treatment (Co Others, None)	oncrete, Stee	I, STEEL												
Headwall		Х	Х											
Collar			Х	Х										
Wingwalls			Х	Х										
(Shape:)														
Cutoff Wall			Х	X										

73072 -1 Bridge Culvert

			Unctro	am End
Culvert Component		Last	Now	Explanation of Condition
Culvert Component Bevel End		Last 6	Now 6	Bevel is heaving & twisting.
	150	0	0	Bever is fleaving & twisting.
Heaving (mm) Invert Above/Below Stream Bed				
	100			
Above/Below (mm)	100	N.I.		Wall variated
Scour Protection		N	6	Well vegetated.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	18-Jul-2012		<i>,</i> .	, ,
	10 00 2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Sag estimated.
Measured Rise (mm)	2160			Could not measure rise due to silt on floor.
Measured At Ring No.				
Sag (mm)	40			
Percent Sag	2			
Sidewall		7	7	Total 6 rings.
Measured Span (mm)	2244			1
Measured At Ring No.				Span at midpipe=2244=44mm=2%
Deflection (mm)	44			
Percent Deflection	2			
Floor	-	N	N	Dirty water & silt on floor.
Bulge (mm)	0	14	1 1	Sity fraction of froot.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams	140	7	7	
Separation (mm)	100	1		
	100	V	V	
Longitudinal Seams		X	X	
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		7	7	
Corrosion By Soil (Y/N)	No		-	
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

73072 -1 Bridge Culvert

		Brid	ulvert Barrel						
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 2200, Type: MP)					
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N) No				Random rock in pipe.					
Barrel General Rating			7	Transon rook in p.po.					
Culvert Component		Last	Now	Explanation of Condition					
Direction	<u> </u>	N	INOW	Explanation of Condition					
End Treatment (Concrete, Steel, Others, None)	STEEL	IN							
Headwall		Х	Х						
Collar		X	X						
			_						
Wingwalls		X	X						
(Shape:)									
Cutoff Wall		X	X						
Bevel End		N	2	Bevel end has been buckled up and destroyed likely by mowers.					
Heaving (mm)	50								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	500								
Scour Protection		N	6	Well vegetated.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)		1							
Scour/Erosion		N	6						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	2	2						
		Last	Now	re Usage Explanation of Condition					
Channel (U/S and D/S)		LaSi	INOW	Explanation of Condition					
Alignment			7	Entry is from ditch. Channel enters ditch at 100 m West of inlet and runs parallel to hwy into pipe.					
Bank Stability			8						
HWM (m below Top of Culvert)				HWM not visible. (From marks inside pipe has flowed full - 93/10/19).					
Drift (Y/N)	No			<u> </u>					
Channel Bottom Degrading/Aggrading				Unknown.					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :									
Channel General Rating		7	7						

					Maintenan	ce Recommend	ations						
Inspector Recomm	mendations	,	Year	Inspecto	r Comments		Department Com	men	ts	Target Year	Est. Cost	Cat #	
SHOTCRETE RE	PAIRS												
PLACE ADDITION	NAL RIP RAP												
REMOVE DRIFT ACCUMULATION													
INSTALL CONCR	ETE/STEEL LINING	}											
INSTALL STRUTS	3												
INSTALL CONCRETE COLLAR/CUTOFF		OFF											
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION		2	2012	bevel or	damaged outlet portion leave as square end with well placed rock,	vith an entry							
OTHER ACTION					· · · · · ·	,							
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			77.8/77.	8	Sufficiency Rating (Last/Now)	70.1/70.0	Est	. Repl. Yr	2044	Maint. Ro	eqd. (Y/N)	Yes
Special Comments for Next Inspection	Damage has not be LRA was issued 20	een repair Jul2012 t	red. to Donal	ld Saunde	ers.		Department Comments						
Maintenance Reviewed By						Date				Estimated Total	al 0		
Proposed Long-Term Strategy 2007.		2007.01 confirm	1.15 Culthat it m	vert shoul neets curr	d be good until 2045. I ent standards.	f proposed pavir		some	e guardrail, ir	iclude a re	eview of the ex	isting guardr	rail to
On 3-Year Progra	m (Y/N)												
Proposed Action													
Previous Inspector's Name Owen S		Owen S	Salava		Previous	s Assistant's Name							
		18-Apr-2	18-Apr-2014 P			Previous	Previous Inspection Date 17-D						
		21					,						
Comment													