					Brida	e Culve	ert Inspe	ction					
Bridge File Nur	nher	er 80943 -1 Bridge Culvert						Form Type		CUL1			
Year Built 1987						Lot No.	, рс		2				
Bridge or Town Name ENTWISTLE										Todd Warshawski			
Located Over	PED, OVER 50000 PS												
					Inspector Class Assistant Name			DK CLS B					
Located On 16:10 L1 28.857;16:10 R1 2				J K I 20.00	28.809								
Water Body CI./Year					Assistant Clas					07. 4 0040			
Navigabil. Cl./Year				205 7 14/5				Inspection Date		27-Aug-2012			
Legal Land Location SW SEC 2				RGE / W5	IVI		Data Entry By		Theresa Lacus	sta			
							Data Entry Date		05-Sep-2012				
·			ransportation	n (AII)			Reviewer Name		Eric Carcoux				
Contract Main. Area CMA12							Review Date		29-Aug-2012				
Clear Roadway	//Skew	39.5 /					Dept. Reviewer Name			ĺ			
AADT/Year		8,050 / 2						Dept. Review Date		18-Sep-2012			
Road Classifica		RAD-412	2.4-120				Follow-l	Follow-Up By					
Detour Length													
Bridge Culver													
Number of Culv		1											
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	2	900	2900		BP		65.7				RECTANGLE	
Special Feature	es												
Posted Vertical Posted: Lane Remarks	NB		ridge (m)	In Adv	,	,		ine SB	0	n Bridge (m)	In Advar	ce (Y/N) No	
Utility Attachme	onto				Uti	lities (L	Located a	at)					
Telephone	1110						Gas						
Power							Municipa	al					
Others	Stroot	lighting.					Problem		No				
Remarks			ea. Bridge pla	auga on C		M wing		I (I / IN)	INO				
Remarks	All util	illes in are	ea. Bridge pi	•			d / Emba	nkmont					
				A	Last	Now		ation of (Condi	tion			
Horizontal Aligr	nment				6	6	1	es both o					
Vertical Alignm					8	8	Lilliano	es bour c	iii C CiiC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Roadway Width			39.500		0	0	WBL 17.4m, EBL 22.1		_ 22.1r	m.			
Embankment					7	7							
Sideslope (_:1)		4.0										
(Height of Co		1.3)			!								
Guardrail (Y/N)		Yes				Missing 2 posts on NW.							
Approach Roa	ıd / Eml	oankmen	t General Ra	ting	6	6							
						⊔ Upstre	am End						
Culvert Compo	onent					Now		ation of (Condi	tion			
Direction					N								
End Treatment Others, None)	(Concre	ete, Steel,	CONCRET	E									
Headwall					9	8							
Collar					Х	Х	<u> </u>						

_				am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		6	6	Wide vertical cracks NE & NW wingwalls.
(Shape:)			1	
Cutoff Wall		X	X	
Bevel End		X	X	Steel awning over entrance.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		8	8	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating	'	8	6	
		_ Bri	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	⊥ ition Code: MAIN. Spa			· · ·
Barrel Last Accessible Date	27-Aug-2012		. ,	, 1100 (11111): 2000, 17 por 21)
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	7	
Measured Rise (mm)	2663			near center
Measured At Ring No.				Difference from design due to concrete floor.
Sag (mm)	0			
Percent Sag				
Sidewall		8	7	South end.
Measured Span (mm)	2575			Difference from design due to concrete floor.
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		7	7	Random narrow cracks along floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Cracks @ both joints, west wall & roof. Concrete chips may fall on
Separation (mm)	30			pedestrians - photo.
Longitudinal Seams		Х	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	
Coaling			_	
Corrosion By Soil (Y/N)	No			

		Brid	dae Cu	Ivert Barrel
Culvert Component		1		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa		· · · · · · · · · · · · · · · · · · ·	•
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N) No				
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		Х	Х	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		1	
Headwall		8	7	
Collar		X	X	
Wingwalls		8	7	
(Shape:)			_	
Cutoff Wall		X	X	
Bevel End		X	X	South end, end square with stairs leading in and wheel chair ramp.
Heaving (mm)	0			Corrosion stains on steps (South).
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		8	7	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion	T	8	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	7	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	-
Roadway Surface		9	9	
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		Х	Х	
Туре	None			
Lighting		7	7	50% of light covers have a small amount of graffiti.
Barrel Leakage (Y/N)	No			(Water draining at North headwall onto floor freezing up to 0.5m out from each sidewall. 10/Mar/2007)

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

			Maintenance	Recommen	dations					
Inspector Recommendations	Year	Inspecto	r Comments		Department Com	ments		Target Year	Est. Cost	Cat 7
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	G									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION	2012	Patch cr	acks on circumferential	oints.						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N	low) 88.9/7	77.8	Sufficiency Rating (Last/Now) (%)		90.3/80.9	Est. Repl. Yr	2050 Maint. Re		qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	stimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Kris Bosters			Previous	Assistant's Name					
Next Inspection Date	27-May-2014			Previous	Inspection Date	05-Oct-2010				
•					•					
Inspection Cycle (Default) (months)	21									