					Bridg	e Cuive	ert insp							
		08374 -	-1 Bridge Culve	rt			Form I	уре						
Year Built		1956					Lot No		4	4				
Bridge or Town	Name	CROSS	SFIELD				Inspec	Inspector Name Garry Roberts						
Located Over		CROSSFIELD CREEK, 3.33.20, WATERCRS-ST				Inspec	Inspector Class BR CLS A							
Located On		2:18 L1	2:18 L1 28.018:2:18 R1 28.024				Assista	ant Name						
Water Body Cl	/Year						Assista	ant Class						
Navigabil CL/X	/ roui 'ear						Inspec	tion Date	06-Sep-2011					
Legal Land Legation SW/SE				M		Data E	Data Entry By Alyssa Boynton							
			0 12 1 101 23 1		111		Data E	ntry Date	21-Oct-2011					
Road Authority	luue	Alberta	Alberta Transportation (AIT)					Reviewer Name Ash Morjaria						
Contract Main	Area			(/ (1)			Review	/ Date	09-Oct-2011	09-Oct-2011				
Clear Roadway		28 /	,				Dept. F	Reviewer Nar	ne Tim Davies					
	JOREW	207	/ 2010 (A)				Dept. F	Review Date	28-Oct-2011	28-Oct-2011				
Road Classifica	ation	23,000 PED_41	12 4-130				Follow	-Uр Ву						
Detour Length	(km)	1	12.4-130				-							
Bridge Culvert		ation												
Number of Culv	/erts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab	Shape			
4				1000				20	405,200	I NICKNESS				
1	0/5		-	1600				30	125X26	2.8	ROUND			
1	MAIN	IAIN 3600 1800 BP		BP		79.3			RECTANGLE					
1 D/S - 2150			2150	D A D			39			ROUND				
Special Feature	es		STORM WATE	R DRAIN	, BAR	KEL EL	BOW							
Special Feature	es Comr	nent												
					Uti	ilities (L	ocated	at)						
Utility Attachme	ents													
Telephone	West	r/w					Gas							
Power	3 wire	west r/\	<i>N</i> .				Munici	pal						
Others							Proble	m (Y/N) No	1					
Remarks														
				Ар	oproa	ch Road	d / Emb	ankment						
					Last	Now	Explar	Explanation of Condition						
Horizontal Aligr	nment				7	7	Hwy 2	Hwy 2 N & S lanes & east service road.						
Vertical Alignm	ent				7	7								
Roadway Width	n (m)		28.000											
Embankment					7	7	Ditch e	rosion @SE	of Service road.	Erosion measu	res 7mx2mx0.8m			
Sideslope (:1)		3.0				deep -Well vegetated and stable							
(Height of Co	ver(m) :	9.6)					1							
Guardrail (Y/N)			Yes											
Approach Roa	id / Emb	ankme	nt General Rat	ing	7	7								
				•										
Culvert Comp	opont				Lact	Now		ation of Co	adition					
			W/		Wost	and - cen evt								
End Treatment	(Concre	ete, Stee	el, STEEL		VV		1100310	nu cop ext						
Headwall					Х	X								
Collar					7	7	Concre	Concrete collar between pipes - Minor cracking.						
Wingwalls					Y	Y								
(Shape ·)					~	~								
(Shape.)														

	1		Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		Х	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection	·	8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Upstream End General Rating		8	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 1600, Type: MP, Cell Sequence: 1)
Barrel Last Accessible Date	06-Sep-2011			CSP - SOuth pipe.
Special Features				
Special Feature		7	8	
(Type : STORM WATER DRAI	N)			
Special Feature	· ·		Х	
(Type : BARREL ELBOW)				
Roof		7	8	
Measured Rise (mm)	1600			
Measured At Ring No.	3			
Sag (mm)	0			
Percent Sag				
Sidewall		5	8	
Measured Span (mm)	1600			
Measured At Ring No.	3			
Deflection (mm)	0			
Percent Deflection				
Floor		N	8	
Bulge (mm)	0		0	
Measured At Ring No	-			
Abrasion (Y/N)	No			
Circumferential Seams		5	8	Sealed with spray foam
Separation (mm)	20		0	
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 (V/N)				
Coating		X	7	
	No	~	1	
	No			-
Camper POS/ZERO/NEG	ZERU			

Bridge Inspection & Maintenance System (Web 2005)

		Bric	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 1600, Type: MP, Cell Sequence: 1)
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Туре :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratir	ng	5	8	
		Bric	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 1600, Type: MP, Cell Sequence: 2)
Barrel Last Accessible Date	06-Sep-2011			CSP- South pipe.
Special Features				
Special Feature			8	
(Type : BARREL ELBOW)			_	
Special Feature				
(Туре :)				
Roof		7	8	
Measured Rise (mm)	1600			
Measured At Ring No.	3			
Sag (mm)	0			
Percent Sag	0			
Sidewall		5	8	
Measured Span (mm)	1600			
Measured At Ring No.	3			
Deflection (mm)	0			
Percent Deflection	0			
Floor		Ν	8	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	8	Sealed with spray foam.
Separation (mm)	20			
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		Х	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

		Bric	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	<u>(mm):</u>	, F	Rise (mm): 1600, Type: MP, Cell Sequence: 2)
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Туре :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	ng	7	8	
		Bric	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 1)
Barrel Last Accessible Date	06-Sep-2011			Concrete box - South cell.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		8	7	Isolated transverse cracks - narrow.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		8	5	Minor spalls, isolated narrow to wide vertical cracks.
Measured Span (mm)	1600			
Measured At Ring No.	2			-
Deflection (mm)				-
Percent Deflection				
Floor		N	N	400mm silt.
Bulge (mm)	0			
Measured At Ring No.				-
Abrasion (Y/N)	No		1	
Circumferential Seams	1	8	5	Minor spalls.
Separation (mm)	100			
Longitudinal Seams	1	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	I	8	X	
Corrosion By Soil (Y/N)	No			-
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

08374 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 1)
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Туре :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			400mm silt
Silting (Y/N)	Yes			400mm Sit.
Drift (Y/N)	No			
Barrel General Rating		8	5	
		Brid	dge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	06-Sep-2011			Concrete box - North.
Special Features	·			
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		8	7	Isolated narrow tranverse cracks.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		8	5	Minor spalls, Narrow to wide vertical cracks.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	400mm silt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	5	Minor spalls.
Separation (mm)	20			
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		8	Х	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

08374 -1 Bridge Culvert

	ĺ.	Brio	dge Cu	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 2)
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		X	Х	
(Туре :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			100mm silt
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		8	5	
		Brie	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: D/S, Span	(mm):	, F	Rise (mm): 2150, Type: SP)
Barrel Last Accessible Date	08-Sep-2011			SPCSP
Special Features				
Special Feature				
(Туре :)				
Special Feature				
(Туре :)				
Roof		7	8	
Measured Rise (mm)	2115			
Measured At Ring No.	3			
Sag (mm)	35			
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	2120			
Measured At Ring No.	3			
Deflection (mm)	30			
Percent Deflection	1			
Floor		N	N	500mm silt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)				
Coating		7	6	Isolated rust spots
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			

Bridge Inspection & Maintenance System (Web 2005)

08374 -1 Bridge Culvert

	Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: D/S, Span	(mm):	, F	Rise (mm): 2150, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		6	6						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		7	6						
Icing (Y/N)	No			0.5m of silt.					
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel Extension General Ratir	ng	7	7						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E		East end of SP					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall			X						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)			1						
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ration	ng	7	7						
		S	structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		4	4	Meandering stream. Enters at 90 deg. and exits 45 deg					
Bank Stability		6	6						
HWM (m below Top of Culvert)	0.5			0.5 mm from roof in BP					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		4	4						

Maintenance Recommendations													
Inspector Recommendations		Year	Inspector Comments		Department Comr	nents		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)	55.6/55.0	6 Sufficiency Rating (Last/No (%)	ciency Rating (Last/Now)		Est. Repl. Yr	Est. Repl. Yr 2030		Maint. Reqd. (Y/N)				
Special Comments for Next Inspection					Department Comments								
Maintenance Reviewed By					Date		Estimated Total						
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Garry F	Roberts	F	Previous A	Assistant's Name								
Next Inspection Date	06-Jun	-2013	F	Previous I	Inspection Date 14-Jan-2010								
Inspection Cycle (Default) (months)	21		· ·										
Comment													