Bridge Culvert Inspection															
Bridge File Number 72078 -1						Form Type			CUL1						
Bridge File Number 72078 -1 Bridge Culvert Year Built 1981 Bridge or Town Name GEM Located Over EID - IRRIGATION C, WATERCRS- Located On 862:04 C1 10.552 Water Body Cl./Year Navigabil. Cl./Year Legal Land Location NW SEC 35 TWP 23 RGE 16 W4M Longitude, Latitude -112:08:41, 51:00:07 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA23 Clear Roadway/Skew 8.2 / -45 deg. (LHF) AADT/Year 150 / 2008 (A)							Lot No			4	4				
Bridge or Town	n Name	GEM						Inspector Name		Tom Carey					
Located Over		EID - IRRIGATION C, WATERCE			RS-IC		Inspector Class		BR CLS A						
Located On		862:04 C1 10.552					Assistant Name								
Water Body Cl.	./Year						Assista	ant Class							
Navigabil. Cl./Y	/ear						Inspec	tion Date		09-Feb-2010					
Legal Land Loc	cation	NW SE	C 35 TWP 23 R	RGE 16 W	/4M		Data E	ntry By		Erin Roberts					
Longitude, Lati	tude	-112:08	:41, 51:00:07				Data E	ntry Date	!	08-Mar-2010					
Road Authority	'	Alberta	Transportation	(AIT)			Reviev	ver Name	:	Garry Roberts					
Contract Main. Area C		CMA23	CMA23				Review Date			24-Feb-2010					
Clear Roadway	y/Skew	8.2 / -45	5 deg. (LHF)				Dept. Reviewer Name			Lorenz Bohnert					
		150 / 20	008 (A)				Dept. F	Review D	ate	09-Mar-2010					
Road Classifica	ation	RCU-21	10-110				Follow	-Up By							
Detour Length		8													
Bridge Culvert Information															
Number of Cul			1							I					
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		3885	2490		RPE		36.6		152X51	4.0	ELLIPSE			
Special Feature	es														
Special Features Comment															
Litilities (Legated at)															
Utility Attachments Utility Attachments															
Telephone							Gas	e de la companya della companya della companya de la companya della companya dell							
Power 3-wire east					Municipal										
Others						Proble	m (Y/N)	No							
Remarks															
	Approach Road / Embankment														
				Last 8	Now	Explanation of Condition									
Horizontal Alignment						8	Canai	Canal road on 3 sides							
Vertical Alignment		0.200			8										
Roadway Width (m)		8.200	'												
Embankment							Snow								
Sideslope (_:1)		3.0												
(Height of Cover (m) : 2)															
Guardrail (Y/N)		No	No												
Approach Road / Embankment			nt General Rat	General Rating		8									
						Upstre	am End								
Culvert Comp	onent				Last	Now		nation of	Condi	tion					
Direction			W		West	<u> </u>									
End Treatment (Concrete, Steel, Others, None)															
Headwall			Х	Х											
Collar			Х	Х											
Wingwalls					Х	X									
(Shape:)															
Cutoff Wall					X	X									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			-
Scour Protection	300	7	N	Snow
(Type : RIP RAP)			11	Onow
(Avg. Rock Size (mm) : 200)				
Scour/Erosion		7	N	
Scoul/E10Slot1		'	IN	
Beavers (Y/N)	No			
Upstream End General Rating		7	N	
		Bri	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN.			· ·
Barrel Last Accessible Date	09-Feb-2010	- 	,	,
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Estimate
Measured Rise (mm)			'	
Measured At Ring No.				-
Sag (mm)	50			
Percent Sag	2			
Sidewall	2	7	7	INWARD
Measured Span (mm)	3840	, , ,		INWARD
	6			-
Measured At Ring No.	45			-
Deflection (mm)				_
Percent Deflection	1		1	
Floor		N	N	Ice Covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)				
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)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			1
Coating		6	5	20mm soil corrosion spots all along both side walls
Corrosion By Soil (Y/N)	Yes	U	J	2011111 3011 0011031011 3poto all along both side walls
Corrosion By Water (Y/N)	No			
				No port or poetion loss
Camber POS/ZERO/NEG	NEG			No perf or section loss
Ponding (Y/N)	No			

72078 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	•						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	<u>): 3885</u>	, Rise (mm): 2490, Type: RPE)						
Fish Passage Adequacy		X	X							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy			8							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			7							
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction		E		East						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar			Х							
Wingwalls			Х							
(Shape:)										
Cutoff Wall			Х							
Bevel End		7	7							
Heaving (mm) 50										
Invert Above/Below Stream Bed BELOW										
Above/Below (mm)	500									
Scour Protection		7	N	Snow						
(Type : RIP RAP)										
(Avg. Rock Size (mm) : 200)										
Scour/Erosion		7	N							
Beavers (Y/N)	No									
Downstream End General Ratio	ng	7	N							
		S	tructur	re Usage						
			Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			7	CURVES TO NW Trunout structure in the SW corner						
Bank Stability			N	Snow						
HWM (m below Top of Culvert)	0.6									
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			7	GR carried forward						

			Mainten	ance Recomme	ndations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	6									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 77.8/7	7.8	Sufficiency Ratin	g (Last/Now)	81.0/77.0	Est. Repl. Yr	2028	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Tim Davies			Previou	s Assistant's Name					
Next Inspection Date	09-May-2013			Previou	s Inspection Date	30-Jan-2007				
Inspection Cycle (Default) (months)	39									
Comment										