73820 -1 Bridge Culvert

Bridge Culvert Inspection														
Bridge File Num	ridge File Number 73820 -1 Bridge Culvert					Form Type		CUL1						
Year Built 1951						Lot No.			1					
Bridge or Town Name GLEICHEN						Inspector Name			Jon Davies					
Located Over							Inspector Class		BR CLS B					
			1 41.767;1:14 L1 41.761				Assistant Name							
Water Body Cl./	Year						Assistant Class							
Navigabil. Cl./Year							Inspection Date		11-Feb-2012					
							Data Entry By			Lauren Korte				
Longitude, Latitu							Data Entry Date		18-Mar-2012					
		, and the second				Reviewer Name		Garry Roberts						
Contract Main. Area CMA30						Review Date		27-Feb-2012						
Clear Roadway/			deg. (LHF)				Dept. Reviewer Name							
AADT/Year		6,650 / 2					Dept. Review Date		22-Mar-2012					
Road Classificat			-412.4-120				Follow-Up By		ZZ MUI ZVIZ					
Detour Length (I		1					I Glow-op by							
Bridge Culvert		ation								1				
Number of Culve			1											
Pipe #	Barrel	\$	Span	Rise (or [Dia.)	Туре	Length		Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN	N - 1819 SP 82.9				82.9		152X51	3.0	ROUND				
Special Features	s	5	STORM WATE	R DRAIN	, CON	IC FLO	OR .					·		
Special Features	s Comr	ment												
Liche Au	,				Uti	ilities (L	ocated	at)						
Utility Attachmer		0 Cauth					0		1					
Telephone North & South r/w.							Gas	1						
Power	·						Municip		NIa					
Others	Fibre	optics @	NORD R/VV.				Problei	m (Y/N)	No					
Remarks				Λn	nroad	ch Pos	l / Emb	ankment						
				Ì	Last	Now	I / Embankment Explanation of Condition							
Horizontal Alignment				9	7	Intersection at East.								
Vertical Alignment			7	6		rises We								
			25.600											
Embankment					7	7								
Sideslope (:	:1)		3.5											
(Height of Cov		3.5)	_				1							
Guardrail (Y/N)			Yes											
Approach Road	d / Emb	ankmen	t General Rat	ing	7	7								
• •														
							am End							
Culvert Compo	nent				Last	Now		ation of	Condi	tion				
Direction	· · · · · · · · · · · · · · · · · · ·	. 0. 1	OTEE		N		North.							
End Treatment (Others, None)	Concre	ete, Steel	, SIEEL											
	Headwall			Х	X									
Collar			Х	X										
Wingwalls			Χ	X										
(Shape:)														
Cutoff Wall				Χ	X									

			Haratas	
Culvert Component				am End
Culvert Component		Last	Now 7	Explanation of Condition Concrete floor.
Bevel End	75	7	/	Concrete noor.
Heaving (mm) Invert Above/Below Stream Bed				
	100			
Above/Below (mm) Scour Protection	100	7	7	Ingroup
		1		Ingrown.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300) Scour/Erosion		7	7	
SCOUI/ETOSIOTI		'	'	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Si			, Rise (mm): 1819, Type: SP)
Barrel Last Accessible Date	11-Feb-2012		•	
Special Features				
Special Feature		7	7	No concrete floor in liner.
(Type : STORM WATER DRAI	N)			
Special Feature	,	7	N	P.r 7- Ice covered throughout.
(Type : CONC FLOOR)			1.4	
Roof		6	6	Pipe has been lined with a 1500mm CSP from rings 9-14No
Measured Rise (mm)	1784			deflections.Estimated.
Measured At Ring No.	6			Estimate.
Sag (mm)	35			
Percent Sag	1			
Sidewall	'	3	3	Isolated perforations in East sidewall of two rings D/S from liner.
Measured Span (mm)	1854	3		Isolated periorations in East sidewall of two fings b/o from lines.
Measured At Ring No.	6			
Deflection (mm)	35			
Percent Deflection	1			
Floor	'	N	N	
Bulge (mm)		IN	IN	
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	0	1	/	
	U		6	
Longitudinal Seams Total No. of Cracked Pings	0	6	6	
Total No. of Cracked Rings Total No. of Rings with Two	0			
Cracked Seams Min. Remaining Steel	0			
Between Cracks (mm)	 			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating	I	3	3	Alkali staining @ bolt holes. Isolated sidewall perforations.
Corrosion By Soil (Y/N)	Yes			- Isolatoa sidowali portorations.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm):	, Rise (mm): 1819, Type: SP)						
Fish Passage Adequacy		5	5							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		3	3							
		D	ownst	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		S		South.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		X	X							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		Х	Х							
Bevel End		6	6	Concrete floor.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	500		_							
Scour Protection		5	5							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		5	5	6mx6mx0.5m deep scour hole-rock lined.						
Beavers (Y/N)	No									
Downstream End General Ratio	ng	5	5							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		5	5	Curve at U/S end. Cut bank @ West 30m D/S.						
Bank Stability		6	6							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :										
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		5	5							

		Maintena	nce Recommer	ndations					
Inspector Recommendations	Year	Inspector Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS							J. J		
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	2012	Extend liner to D/S end.							
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 33.3/33	.3 Sufficiency Rating (%)	Sufficiency Rating (Last/Now) (%)		Est. Repl. Yr	2024 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	Garry Roberts		Previous	Assistant's Name					
Next Inspection Date	11-Nov-2013		Previous	s Inspection Date	20-Jul-2010				
Inspection Cycle (Default) (months)	21								
Comment									