

Bridge Culvert Inspection			
Bridge File Number	75247 -1 Bridge Culvert	Form Type	CULE
Year Built	1962	Lot No.	4
Bridge or Town Name	HANNA	Inspector Name	Jason Saly
Located Over	2ND ORDER TRIBUTARY TO BULLPOUND CK, 3.17.7.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	862:08 C1 31.093	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	18-Oct-2012
Legal Land Location	SW SEC 10 TWP 30 RGE 15 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-112:02:40, 51:33:00	Data Entry Date	01-Nov-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA21	Review Date	25-Oct-2012
Clear Roadway/Skew	7.3 / 30 deg. (RHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	100 / 2011 (A)	Dept. Review Date	05-Nov-2012
Road Classification	RCU-208-110	Follow-Up By	
Detour Length (km)	8		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	U/S	-	2200	MP	6.5	125X26	2.8	ROUND
1	MAIN	1742	1920	SPE	24.4	152X51	2.8	ELLIPSE
1	D/S	-	2200	MP	6.5	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks	Low voltage wire attached to W fence.		

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		9	7	Steep hill to S; in sag curve; limitd sight distance to S.
Vertical Alignment		6	5	
Roadway Width (m)	8.200			Estimated cover.
Embankment		4	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	5	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		7	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	Heavy growth of grass.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	18-Oct-2012			W extension
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			8	At midpipe.
Measured Rise (mm)	2182			
Measured At Ring No.				0.8%
Sag (mm)	18			
Percent Sag	1			
Sidewall			8	At midpipe.
Measured Span (mm)	2211			
Measured At Ring No.				0.5%
Deflection (mm)	11			
Percent Deflection	1			
Floor			7	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			7	
Separation (mm)	0			
Longitudinal Seams			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			6	Minor surface corrosion.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 2200, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy			8	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating			8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1742, Rise (mm): 1920, Type: SPE)				
Barrel Last Accessible Date	18-Oct-2012			11 rings total; original central portion.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Rise at R1=1901=19mm=1.0% Rise at R5=1923=3mm Rise at R10=1905=15mm
Measured Rise (mm)	1901			
Measured At Ring No.	1			
Sag (mm)	19			
Percent Sag	1			
Sidewall		8	7	Span at R1=1725=17mm Span at R5=1711=31mm=1.8% Span at R10=1724=18mm
Measured Span (mm)	1711			
Measured At Ring No.	5			
Deflection (mm)	31			
Percent Deflection	2			
Floor		7	6	Very minor abrasion.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	6	Deposits of alkaline on bolt holes, minor.
Separation (mm)	30			
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)	Yes			In stagger
Coating		6	6	Alkaline stains Minor Corrosion
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1742, Rise (mm): 1920, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		5	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	8	
Beavers (Y/N)	No			
Downstream End General Rating		7	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	6	Meandering stream.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	81.0/78.2	Est. Repl. Yr	2045	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	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	18-Jan-2016		Previous Inspection Date	17-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							