Bridge Culvert Inspection

Bridge File Number	74981 -1 Bridge Culvert	Form Type	CUL1
Year Built	1986	Lot No.	4
Bridge or Town Name	CLUNY	Inspector Name	Jason Rusu
Located Over	WID - IRRIGATION C, WATERCRS-IC	Inspector Class	BR CLS A
Located On	842:06 C1 32.125	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	16-Feb-2012
Legal Land Location	SW SEC 9 TWP 22 RGE 21 W4M	Data Entry By	Anne Roberts
Longitude, Latitude	-112:52:01, 50:50:59	Data Entry Date	24-Mar-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA30	Review Date	24-Feb-2012
Clear Roadway/Skew	7.8 / 8 deg. (RHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	1,320 / 2011 (A)	Dept. Review Date	29-Mar-2012
Road Classification	RCU-208-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1500	SP	18.3	152X51	3.0	ROUND
Special Features								
Special Features Comment		Culvert no longer accessible or visible - remove 74981 from BIS						

Utilities (Located at)

Utility Attachments			
Telephone	West r/w	Gas	
Power	1 wire overhead west r/w	Municipal	
Others	1 wire crossing 100m N	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Numerous farm entrances within 200m
Vertical Alignment		5	5	Crest of hill est. 250 m north. Fairly flat sideslope for 1.5 m each side then 2:1.
Roadway Width (m)	7.800			
Embankment		N	6	
Sideslope (__:1)	2.0			
(Height of Cover(m) : **0.6**)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		**5**	**5**	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction				West
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		N	N	Snow covered
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	200			
Scour Protection		N	N	
(Type : **NATURAL**)				
(Avg. Rock Size(mm) : **300**)				
Scour/Erosion		N	N	Snow
Beavers (Y/N)	No			
Upstream End General Rating		**N**	**N**	

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: SP**)				
Barrel Last Accessible Date	30-Dec-2008			
Special Features				
Special Feature				900mm dia. waterline through 1200mm dia. steel pipe through culvert
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	pipe cant be accessed due to waterline through pipe
Measured Rise (mm)	1490			
Measured At Ring No.	3			
Sag (mm)	10			
Percent Sag	0			
Sidewall		N	N	
Measured Span (mm)	1510			
Measured At Ring No.	3			
Deflection (mm)	10			
Percent Deflection	0			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	1N
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	(Numerous rust spots , ents easily @ spots in S. wall)
Corrosion By Soil (Y/N)	Yes			
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: MAIN, Span (mm): , Rise (mm): 1500, Type: SP**)				
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		N	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		**4**	**4**	GR carried forward

Downstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
Direction				East
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	N	
(Type : **NATURAL**)				
(Avg. Rock Size(mm) : **350**)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		**N**	**N**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel (U/S and D/S)				
Alignment		X	X	No channel Is filled in and now a waterline
Bank Stability		X	X	
HWM (m below Top of Culvert)				
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**9**	**9**	GR carried forward

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) (%)	**44.4/44.4**	**Sufficiency Rating (Last/Now) (%)**	**64.6/64.6**	Est. Repl. Yr	2050	Maint. Reqd. (Y/N)	No

Special Comments for Next Inspection	Remove from BIS	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	Tom Carey	Previous Assistant's Name	
Next Inspection Date	16-May-2015	Previous Inspection Date	08-Feb-2010
Inspection Cycle (Default) (months)	39		
Comment			