

Bridge Culvert Inspection			
Bridge File Number	73629 -2 Bridge Culvert	Form Type	CUL1
Year Built	2004	Lot No.	2
Bridge or Town Name	HIGH RIVER	Inspector Name	Tom Carey
Located Over	TRIBUTARY TO LITTLE BOW RIVER, 2.12.12.17, WATERCRS-ST	Inspector Class	BR CLS A
Located On	23:08 C1 44.406	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	18-Feb-2013
Legal Land Location	SW SEC 5 TWP 19 RGE 28 W4M	Data Entry By	Anne Roberts
Longitude, Latitude	-113:50:57, 50:34:19	Data Entry Date	17-Mar-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA27	Review Date	03-Mar-2013
Clear Roadway/Skew	18.5 / -10 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	10,380 / 2011 (A)	Dept. Review Date	25-Mar-2013
Road Classification	RAU-209-110	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	3000	2400	PCB	45			RECTANGLE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	North & South ditch.	Gas		
Power	South ditch.	Municipal		
Others	Street light South shoulder.	Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Jct Hwy 2A 200m West, posted for 50 km/hr. in town
Vertical Alignment		8	8	
Roadway Width (m)	18.500			
Embankment		8	8	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 1.5)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		North
End Treatment (Concrete, Steel, Others, None)	CONCRETE			Irrigation district has fenced off entire channel U/S - viewed from behind fence.
Headwall		8	8	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	Rebar was cut through to fabricate bevels - exposed and is corroding
Heaving (mm)	0			
Invert Above/Below Stream Bed				Iced over
Above/Below (mm)				
Scour Protection		8	8	Storm drains on West & east side.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3000, Rise (mm): 2400, Type: PCB)				
Barrel Last Accessible Date				Ice within 600 mm of roof Unable to enter. Viewed from D/S end only. No defects noticed. Looked through from top of roof.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		X	N	
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		X	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3000, Rise (mm): 2400, Type: PCB)					
Ponding (Y/N)	No				
Fish Passage Adequacy		X	X		
Baffle		X	X		
(Type :)					
Waterway Adequacy		7	7		
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating		N	N		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		S		South Precast concrete box. Irrigation district fenced off channel.	
End Treatment (Concrete, Steel, Others, None)	CONCRETE				
Headwall		8	8		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		6	6	Precast concrete bevel. Rebar was cut through to fabricate bevels - exposed and is corroding.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW			Iced over	
Above/Below (mm)	800				
Scour Protection		7	7		
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		7	7		
Beavers (Y/N)	No				
Downstream End General Rating		6	6		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		8	8	Irrigation canal Pedestrian bridge 15m D/S.	
Bank Stability		7	7		
HWM (m below Top of Culvert)	0.6				
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading	NONE				
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating		8	8		

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	2014	Coat exposed rebar at tops of bevels.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	61.7/61.7	Est. Repl. Yr	2046	Maint. Req. (Y/N)	Yes
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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	18-Nov-2014		Previous Inspection Date	20-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							