

Bridge Culvert Inspection			
Bridge File Number	70780 -2 Bridge Culvert	Form Type	CULM
Year Built	2010	Lot No.	4
Bridge or Town Name	DRAYTON VALL	Inspector Name	Wade Nanninga
Located Over	2ND ORDER TRIBUTARY TO NORTH SASKATCHEWAN RIVER, 6.142.1, WATERCRS-ST	Inspector Class	BR CLS A
		Assistant Name	
Located On	22:30 C1 13.795	Assistant Class	
Water Body Cl./Year		Inspection Date	18-Oct-2011
Navigabil. Cl./Year		Data Entry By	Theresa Lacusta
Legal Land Location	NW SEC 8 TWP 49 RGE 7 W5M	Data Entry Date	16-Nov-2011
Longitude, Latitude	-114:59:46, 53:13:16	Reviewer Name	Eric Carcoux
Road Authority	Alberta Transportation (AIT)	Review Date	09-Nov-2011
Contract Main. Area	CMA11	Dept. Reviewer Name	Brent Herrick
Clear Roadway/Skew	15.8 / -20 deg. (LHF)	Dept. Review Date	15-Dec-2011
AADT/Year	6,500 / 2010 (A)	Follow-Up By	
Road Classification	RAU-211.8-110		
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2000	MP	150	125X26	3.5	ROUND
2	MAIN	-	1000	MP	40	68X13	2.0	ROUND
Special Features								
Special Features Comment	WSP augured pipe part of primary span.							

Utilities (Located at)

Utility Attachments			
Telephone	East and West r/w.	Gas	Pipeline crossing 20m North and West.
Power	6 wires West r/w.	Municipal	
Others	Traffic signals. File tag not found.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		7	At intersection - controlled with traffic lights. Turning lane on West side. Pipe is under intersection from SE to NW.
Vertical Alignment		7	
Roadway Width (m)			
Embankment		7	
Sideslope (__:1)			
(Height of Cover(m) : 2.2)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating		7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)			
Direction	W		NW corner of intersection. North pipe
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall		X	
Collar		X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			8	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating			7	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date	18-Oct-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			7	
Measured Rise (mm)	1950			cl
Measured At Ring No.				
Sag (mm)	50			
Percent Sag	3			
Sidewall			7	
Measured Span (mm)	2000			cl
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			7	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			7	
Separation (mm)				
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, Type: MP)				
Coating			8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			6	
Baffle			X	
(Type :)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			7	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		E		North pipe SE corner of intersection
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			8	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection			6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			6	
Beavers (Y/N)	No			
Downstream End General Rating			6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		W		South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection			5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			5	
Beavers (Y/N)	No			
Upstream End General Rating			5	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1000, Type: MP)				
Barrel Last Accessible Date				1/2 full of water-not accessible, viewed from ends. Looks ok.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			6	Rating est.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1000, Type: MP)				
Coating			N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)	No			
Fish Passage Adequacy			6	
Baffle			X	
(Type :)				
Waterway Adequacy			6	
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			N	GR unknown - "6" is estimated.

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		E		South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			6	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection			5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			5	
Beavers (Y/N)	No			
Downstream End General Rating			5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			6	
Bank Stability			7	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)				
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			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	Sufficiency Rating (Last/Now) (%)	/66.8	Est. Repl. Yr	2060	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			Previous Assistant's Name				
Next Inspection Date	18-Jul-2013		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							