

Bridge Culvert Inspection			
Bridge File Number	13388 -1 Bridge Culvert	Form Type	CUL1
Year Built	1959	Lot No.	2
Bridge or Town Name	TABER	Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO OLDMAN RIVER, 2.12.5, WATERCRS-ST	Inspector Class	BR CLS A
Located On	864:02 C1 14.127	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	19-Mar-2012
Legal Land Location	NW SEC 12 TWP 11 RGE 17 W4M	Data Entry By	Lauren Korte
Longitude, Latitude	-112:12:40, 49:53:45	Data Entry Date	12-Apr-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	CMA24	Review Date	23-Mar-2012
Clear Roadway/Skew	9.4 /	Dept. Reviewer Name	Tim Davies
AADT/Year	490 / 2011 (A)	Dept. Review Date	17-Apr-2012
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	10		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2030	2240	SPE	61	152X51		ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone	West ROW.			Gas	3 wire East r/w.		
Power	East ROW.			Municipal			
Others				Problem (Y/N)	No		
Remarks							

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Rises to North.
Vertical Alignment		6	7	
Roadway Width (m)	9.400			
Embankment		7	6	Berm at fence line.
Sideslope (__:1)	2.0			
(Height of Cover(m) : 7.6)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	7	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			0.7m high dam built 10m U/S.
Above/Below (mm)	250			
Scour Protection		N	4	Concrete bags over pipe & North channel erosion below concrete bags in channel.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	4	
Beavers (Y/N)	No			
Upstream End General Rating		N	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2030, Rise (mm): 2240, Type: SPE)				
Barrel Last Accessible Date	19-Mar-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	
Measured Rise (mm)	2137			
Measured At Ring No.	13			
Sag (mm)	103			
Percent Sag	5			
Sidewall		7	7	
Measured Span (mm)	2070			
Measured At Ring No.	13			
Deflection (mm)	40			
Percent Deflection	2			
Floor		6	6	Heavy rust buildup, lower seams, leakage through lower bolt holes. No loss of steel evident.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
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)				1 N stagger.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Assembly damage 17th ring U/S North wall, with loss of coating & 20th ring U/S South wall. By soil and water through lower 2/5 of bolt holes.
Corrosion By Soil (Y/N)	Yes			
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, Location Code: MAIN, Span (mm): 2030, Rise (mm): 2240, Type: SPE)				
Fish Passage Adequacy		X	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East invert.
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)	50			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)	30			
Scour Protection		N	3	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	3	Erosion around the invert, backed under the pipe 1m. Large scour hole 10 x 5 x .5m. Used to water cattle.
Beavers (Y/N)		No		
Downstream End General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Berm built across stream 15 m U/S to create pond U/S.
Bank Stability		N	5	
HWM (m below Top of Culvert)				No visible HWM. At U/S bevel.
Drift (Y/N)		Yes		
Channel Bottom Degrading/Aggrading		DEGRADING		At D/S end.
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	Class I, 30m3 15m3 each end.					
REMOVE DRIFT ACCUMULATION	2012	At U/S bevel.					
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) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	63.9/64.2	Est. Repl. Yr	2025	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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	19-Jun-2015		Previous Inspection Date	11-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							