

Bridge Culvert Inspection				
Bridge File Number	08098 -1 Bridge Culvert		Form Type	CUL1
Year Built	1954		Lot No.	2
Bridge or Town Name	ROCKY MT HOU		Inspector Name	Owen Salava
Located Over	TRIBUTARY TO NORTH SASKATCHEWAN RIVER, 6.158, WATERCRS-ST		Inspector Class	BR CLS A
Located On	752:04 C1 34.218		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	09-Feb-2012
Legal Land Location	NW SEC 22 TWP 39 RGE 7 W5M		Data Entry By	Marcia Chavez
Longitude, Latitude	-114:56:14, 52:22:20		Data Entry Date	06-Mar-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA18		Review Date	22-Feb-2012
Clear Roadway/Skew	9.8 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	2,070 / 2010 (A)		Dept. Review Date	09-Mar-2012
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1800	SP	32.9	152X51	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	10 West of centreline.	Gas	
Power	East & West 10m from centreline	Municipal	
Others	Waterline running @ right angles through culvert 7m West of c/l.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	600m from jct. SR 752 & Hwy. 11A 49 Ave. intersection 20m N.
Vertical Alignment		7	7	
Roadway Width (m)	8.500			
Embankment		4	4	Erosion at NW corner.
Sideslope (__:1)	1.0			
(Height of Cover(m) : 2.5)				
Guardrail (Y/N)	No			Wooden handrails W side only.
Approach Road / Embankment General Rating		4	6	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		4	4	Bottom of bevel 100mm above streambed - photo.
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	250			
Scour Protection		4	4	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	Minor erosion around bevel due to heaving.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm):				Rise (mm): 1800, Type: SP)
Barrel Last Accessible Date	09-Feb-2012			Water line runs N/S through the two sides of the culvert at the D/S end.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	4	Unable to measure due to ice. A dozen bolts missing nuts - minor. (02/06/28) Heavy rock deposit throughout floor. 06Sep2005).
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	70			
Percent Sag				
Sidewall		4	4	(Tears in pipe near D/S end - photo. 2.5m from end. Construction damage. 06Sep2005). Midspan.
Measured Span (mm)	1860			
Measured At Ring No.				
Deflection (mm)	50			2.8%
Percent Deflection	3			
Floor		4	N	(1 section bulged 150mm. Slight gap @ 5:00 seam where bulged - photo. Bolts missing. 06Sep2005) - Ice covered.
Bulge (mm)	50			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Missing some nuts.
Separation (mm)	70			
Longitudinal Seams		3	N	(Missing some nuts - photo. 06Sep2005) - Below ice.
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		5	5	Superficial rust.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			Looks like neg due to bevel heaving.

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Perched outlet.
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	Previously ran full.
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	GR carried forward from 06Sep2005.
Downstream 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 :)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	120			
Invert Above/Below Stream Bed	ABOVE			Bevel perched.
Above/Below (mm)	1000			
Scour Protection		4	4	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	Scour around D/S end of culvert.
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				Previously ran full.
Drift (Y/N)	Yes			Drift caught on top of waterline through pipe.
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Next Inspection Date	09-May-2015	Previous Inspection Date	06-Sep-2005
Inspection Cycle (Default) (months)	39		
Comment			