

Bridge Culvert Inspection				
Bridge File Number	73656 -1 Bridge Culvert		Form Type	CUL1
Year Built	1993		Lot No.	4
Bridge or Town Name	MOUNTAIN VIE		Inspector Name	Jason Rusu
Located Over	MVI - IRRIGATION C, WATERCRS-IC		Inspector Class	BR CLS A
Located On	5:02 C1 21.616		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	28-Oct-2011
Legal Land Location	SW SEC 27 TWP 2 RGE 27 W4M		Data Entry By	Alyssa Boynton
Longitude, Latitude	-113:32:15, 49:08:43		Data Entry Date	21-Nov-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA25		Review Date	09-Nov-2011
Clear Roadway/Skew	12.1 / -29 deg. (LHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	1,290 / 2010 (A)		Dept. Review Date	25-Nov-2011
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	2700	MP	55	75X25	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments								
Telephone	South ditch			Gas	(1 line north ditch) not seen			
Power	1 wire north			Municipal				
Others				Problem (Y/N)	No			
Remarks								

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	8	8	No passing EB. Crest curve to the east. Limited sight distance.
Vertical Alignment	6	6	
Roadway Width (m)	12.100		
Embankment	N	6	
Sideslope (___:1)	4.0		
(Height of Cover(m) : 2.9)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		South
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)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	Minor
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		N	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2700, Type: MP)				
Barrel Last Accessible Date	28-Oct-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		1	7	estimated sag
Measured Rise (mm)	2700			
Measured At Ring No.	3			
Sag (mm)	0			
Percent Sag	0			
Sidewall		8	7	inward
Measured Span (mm)	2680			
Measured At Ring No.	3			
Deflection (mm)	20			
Percent Deflection				
Floor		N	N	GRAVEL COVERED - 200 mm DP
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	6	
Separation (mm)	30			
Longitudinal Seams		X	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)				
Coating		6	6	
Corrosion By Soil (Y/N)	No			Minor Superficial corrosion on the lower half
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): , Rise (mm): 2700, Type: MP)				
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		North
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)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Rating		N	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	CURVES @ U/S
Bank Stability		N	6	
HWM (m below Top of Culvert)	1.8			Water line stains on pipe.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	5	

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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	73.0/77.6	Est. Repl. Yr	2036	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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	28-Jul-2013		Previous Inspection Date	20-Dec-2009			
Inspection Cycle (Default) (months)	21						
Comment							