

Bridge Culvert Inspection				
Bridge File Number	74525 -2 Bridge Culvert		Form Type	CULM
Year Built	2007		Lot No.	4
Bridge or Town Name	GRANUM		Inspector Name	Garry Roberts
Located Over	LNI - IRRIGATION C, WATERCRS-IC		Inspector Class	BR CLS A
Located On	519:02 C1 23.974		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	21-May-2010
Legal Land Location	SE SEC 3 TWP 11 RGE 24 W4M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-113:11:35, 49:52:24		Data Entry Date	17-Aug-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Ash Morjaria
Contract Main. Area	CMA25		Review Date	29-May-2010
Clear Roadway/Skew			Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	1,940 / 2009 (A)		Dept. Review Date	18-Aug-2010
Road Classification	RAU-212.0-110		Follow-Up By	
Detour Length (km)	8			

Bridge Culvert Information

Number of Culverts	3							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2400	3000	PCB	24			RECTANGLE
2	MAIN	2400	3000	PCB	24			RECTANGLE
3	MAIN	2400	1500	PCB	24			RECTANGLE
Special Features								
Special Features Comment	3 cell concrete boxes							

Utilities (Located at)

Utility Attachments	OTHER UTILITIES-Shaw cablesystems fibre optic under culvert Mar 2007.		
Telephone	N. Ditch	Gas	SE Corner
Power	N. ROW	Municipal	
Others	Fibre Optic - N ditch	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	9	9	Rises to east
Vertical Alignment	7	7	
Roadway Width (m)	12.600		
Embankment	9	7	
Sideslope (__:1)	0.3		
(Height of Cover(m) : 0.3)			
Guardrail (Y/N)	Yes		Double layer
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)			
Direction	W		North
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	X	X	
Wingwalls	N	X	
(Shape :)			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Upstream End General Rating		9	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2400, Rise (mm): 3000, Type: PCB)				
Barrel Last Accessible Date	21-May-2010			
Special Features				
Special Feature				West Cell
(Type :)				
Special Feature				
(Type :)				
Roof		9	9	
Measured Rise (mm)	3000			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag				
Sidewall		9	9	
Measured Span (mm)	2400			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection				
Floor		9	N	
Bulge (mm)	0			
Measured At Ring No.	1			
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
Separation (mm)	0			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2400, Rise (mm): 3000, Type: PCB)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		9	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	9	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): 2400, Rise (mm): 3000, Type: PCB)				
Barrel Last Accessible Date	21-May-2010			
Special Features				
Special Feature				Middle cell
(Type :)				
Special Feature				
(Type :)				
Roof		9	9	
Measured Rise (mm)	3000			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag				
Sidewall		9	9	
Measured Span (mm)	2400			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection				
Floor		9	N	
Bulge (mm)	0			
Measured At Ring No.	1			
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
Separation (mm)	0			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): 2400, Rise (mm): 3000, Type: PCB)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		9	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	9	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): 2400, Rise (mm): 1500, Type: PCB)				
Barrel Last Accessible Date	21-May-2010			
Special Features				
Special Feature				East cell
(Type :)				
Special Feature				
(Type :)				
Roof		9	9	
Measured Rise (mm)	3000			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag				
Sidewall		9	9	
Measured Span (mm)	2400			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection				
Floor		9	N	
Bulge (mm)	0			
Measured At Ring No.	1			
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
Separation (mm)	0			
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		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): 2400, Rise (mm): 1500, Type: PCB)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		9	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	9	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type:)				
Direction		E		South End
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		N	X	
Cutoff Wall		N	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 200)		9	8	
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Downstream End General Rating		9	8	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	Canal
Bank Stability		9	8	
HWM (m below Top of Culvert)	0.2			No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		9	9	

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) (%)	100.0/100.0	Sufficiency Rating (Last/Now) (%)	100.0/97.8	Est. Repl. Yr	2080	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	Bernie Roseke		Previous Assistant's Name				
Next Inspection Date	21-Aug-2013		Previous Inspection Date	09-Oct-2007			
Inspection Cycle (Default) (months)	39						
Comment							