

Bridge Culvert Inspection			
Bridge File Number	02314 -1 Bridge Culvert	Form Type	CUL1
Year Built	1957	Lot No.	3
Bridge or Town Name	WAYNE	Inspector Name	Jon Davies
Located Over	TRIBUTARY TO DEADHORSE CREEK, 15.1.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	56:08 C1 1.788	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	29-Nov-2011
Legal Land Location	SW SEC 8 TWP 26 RGE 19 W4M	Data Entry By	Alyssa Boynton
Longitude, Latitude	-112:37:58, 51:11:58	Data Entry Date	04-Jan-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA21	Review Date	06-Dec-2011
Clear Roadway/Skew	10 /	Dept. Reviewer Name	Tim Davies
AADT/Year	920 / 2010 (A)	Dept. Review Date	10-Jan-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2317	2561	SPE	50.6	152X51	3.5,3.5,3.5	ELLIPSE
Special Features	SHOTCRETE BEAM							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West ditch	Gas	
Power	East fence line - 2 wire	Municipal	
Others		Problem (Y/N)	No
Remarks	Bell fiber optic line-E R/W		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	
Vertical Alignment	7	7	
Roadway Width (m)	10.000		
Embankment	7	7	NE & NW turndown ends not connected to last posts.
Sideslope (__:1)	3.0		
(Height of Cover(m) : 5.5)			
Guardrail (Y/N)	Yes		
Approach Road / Embankment General Rating	7	7	

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		7	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	6	
Beavers (Y/N)	No			
Upstream End General Rating		7	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2317, Rise (mm): 2561, Type: SPE)				
Barrel Last Accessible Date	29-Nov-2011			
Special Features				
Special Feature		6	6	
(Type : SHOTCRETE BEAM)				
Special Feature				
(Type :)				
Roof		5	5	Rating raised due to beam repair
Measured Rise (mm)	2300			Estimate.
Measured At Ring No.	11			
Sag (mm)	261			
Percent Sag	10			
Sidewall		4	4	200mm bulge @ south sidewalk @ ring #1
Measured Span (mm)	2500			Sidewall deflection appears stable.
Measured At Ring No.	7			
Deflection (mm)	183			
Percent Deflection	7			
Floor		5	N	PR 5. 300mm of ice and silt.
Bulge (mm)	100			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		4	4	RING #13 S SIDEWALL CRACKED at 6 bolts. No change in crack length.
Total No. of Cracked Rings	1			1N stagger
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	130			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	SUPERFICIAL RUST @ BEVEL FLOORS & LOWER LONG SEAMS.
Corrosion By Soil (Y/N)	Yes			Some Pitting
Corrosion By Water (Y/N)	Yes			Alkali staining at upper seams
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2317, Rise (mm): 2561, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	ROCK BLOCKS FISH PASSAGE @ U/S BEVEL.
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
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		7	6	
Heaving (mm)	120			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	6	10 m x 6 m ROCK FILLED SCOUR HOLE
Beavers (Y/N)	No			
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Stream makes sharp bend upstream.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM NOT VISIBLE
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	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	2012	Install posts at NE & NW turndown ends.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	59.2/58.2	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	29-Aug-2013		Previous Inspection Date	13-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							