

Bridge Culvert Inspection			
Bridge File Number	00429 -1 Bridge Culvert	Form Type	CUL1
Year Built	1993	Lot No.	2
Bridge or Town Name	PRIDDIS	Inspector Name	Garry Roberts
Located Over	PRIDDIS CREEK, 2.13.31.5, WATERCRS-ST	Inspector Class	BR CLS A
Located On	22:14 C1 10.610	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	25-May-2012
Legal Land Location	NE SEC 26 TWP 22 RGE 4 W5M	Data Entry By	Kelsey Roberts
Longitude, Latitude	-114:26:26, 50:54:15	Data Entry Date	20-Jun-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	CMA27	Review Date	07-Jun-2012
Clear Roadway/Skew	11 / 30 deg. (RHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	4,420 / 2011 (A)	Dept. Review Date	29-Jun-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	6462	3618	RPB	25.6	152X51	5.0,4.0,4.0	ELLIPSE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	North & South ditch.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		6	7	Hill to east and curve. New pavement.
Vertical Alignment		5	6	
Roadway Width (m)	11.000			
Embankment		7	7	3:1 South, 4.5:1 North.
Sideslope ( __:1)	3.0			
(Height of Cover(m) : <b>0.7</b> )				
Guardrail (Y/N)	Yes			Steel post and rail extend over pipe. Spall at middle and east end of south curb face andat NW and NE of North curb face with voids.
<b>Approach Road / Embankment General Rating</b>		<b>5</b>	<b>6</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		N		North
End Treatment (Concrete, Steel, Others, None)	CONCRETE			Concrete under bridge acts as headwall. Wide cracks.
Headwall		7	7	
Collar		X	X	
Wingwalls (Shape : )		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		7	N	Only 20% visible, under water.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1200			
Scour Protection		7	7	Existing T.T. wingwalls.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6462, Rise (mm): 3618, Type: RPB)				
Barrel Last Accessible Date	12-Jan-2009			SPCSP concreted in under existing precast bridge. Water too deep to enter. Viewed from 4 corners, appears in good shape.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	N	(Roof is fairly flat. Still has adequate curvature.)
Measured Rise (mm)				EST. Roof
Measured At Ring No.				P.R 7
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	(Measured on top of ice - close to mid rise of barrel)
Measured Span (mm)	6500			P.R 7
Measured At Ring No.	4			
Deflection (mm)	38			
Percent Deflection	0			
Floor		N	N	(Rock & silt covered from 600-1200mm deep.)
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	P.R 7
Separation (mm)	0			
Longitudinal Seams		N	N	Roof has 3 N stagger. No stagger on sidewalls. Efflorescence @ roof seams.
Total No. of Cracked Rings	0			P.R 7
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		N	N	(Some minor corrosion @ roof bolts. Some localized pitting on sidewall)
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			P.R 4

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6462, Rise (mm): 3618, Type: RPB)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		5	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>N</b>	<b>N</b>	P.R 7
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		South.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			Cracks & efflorescence. Concrete under bridge acts as headwall.
Headwall		6	6	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		6	N	Only 20% visible, rest is under water.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1200			
Scour Protection		6	6	Existing TT wingwalls.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible - (ice 1.60m below top of culvert) Jan 12/09
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

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	2012	Repair spalls at both curbs approx 3m2.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>56.0/59.1</b>	Est. Repl. Yr	2036	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	25-Feb-2014		Previous Inspection Date	01-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							