

Bridge Culvert Inspection			
Bridge File Number	81521 -1 Bridge Culvert	Form Type	CUL1
Year Built	1991	Lot No.	2
Bridge or Town Name	GRAND CENTRE	Inspector Name	Todd Warshawski
Located Over	2ND ORDER TRIBUTARY TO BEAVER RIVER, 7.2.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	897:12 C1 8.381	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	14-Dec-2011
Legal Land Location	SW SEC 3 TWP 61 RGE 2 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-110:13:41, 54:14:20	Data Entry Date	14-Jan-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA08	Review Date	04-Jan-2012
Clear Roadway/Skew	9.4 / -45 deg. (LHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	940 / 2010 (A)	Dept. Review Date	18-Jan-2012
Road Classification	RCU-210-110	Follow-Up By	
Detour Length (km)	16		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2000	MP	39	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	South r/w.		Gas	
Power	2 wire North r/w		Municipal	
Others			Problem (Y/N)	No
Remarks	BF tag installed @ South end roof.			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Field entrances each way.
Vertical Alignment		8	8	
Roadway Width (m)	9.400			
Embankment		8	8	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
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	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		N	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	4	Minor erosion along SW bank due to poor alignment.-photo
Beavers (Y/N)	Yes			Debris in first section of pipe.-photo
Upstream End General Rating		7	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2000 , Type: MP)				
Barrel Last Accessible Date	14-Dec-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	Large patch over hole in roof. -photo
Measured Rise (mm)				Sag estimated based on measurement from ice.
Measured At Ring No.				
Sag (mm)	45			
Percent Sag	2			
Sidewall		7	6	Rated what's visible. Deflection not measured due to ice level.
Measured Span (mm)	2020			
Measured At Ring No.				
Deflection (mm)	20			
Percent Deflection				
Floor		N	N	Under ice/water.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	60			
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	(Minor superficial rust lower 1/2. 19/Mar/2002) Rated what's visible.
Corrosion By Soil (Y/N)	No			
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): 2000, Type: MP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			Drift caught in first section.
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		N	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	Yes			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Culvert)	0.1			Stains in barrel.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations															
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #									
SHOTCRETE REPAIRS															
PLACE ADDITIONAL RIP RAP															
REMOVE DRIFT ACCUMULATION	2012	Remove debris in inlet.													
INSTALL CONCRETE/STEEL LINING															
INSTALL STRUTS															
INSTALL CONCRETE COLLAR/CUTOFF															
REPAIR SEAMS															
OTHER ACTION															
OTHER ACTION															
OTHER ACTION															
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<table border="1"> <tr> <td>Structural Condition Rating (Last/Now) (%)</td> <td>55.6/66.7</td> <td>Sufficiency Rating (Last/Now) (%)</td> <td>65.0/66.5</td> <td>Est. Repl. Yr</td> <td>2045</td> <td>Maint. Reqd. (Y/N)</td> <td>Yes</td> </tr> </table>								Structural Condition Rating (Last/Now) (%)	55.6/66.7	Sufficiency Rating (Last/Now) (%)	65.0/66.5	Est. Repl. Yr	2045	Maint. Reqd. (Y/N)	Yes
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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	Dave Lam		Previous Assistant's Name												
Next Inspection Date	14-Mar-2015		Previous Inspection Date	13-Aug-2008											
Inspection Cycle (Default) (months)	39														
Comment															