

Bridge Culvert Inspection				
Bridge File Number	76182 W-2 Bridge Culvert		Form Type	CUL1
Year Built	1998		Lot No.	3
Bridge or Town Name	COCHRANE		Inspector Name	Garry Roberts
Located Over	MUNICIPAL		Inspector Class	BR CLS A
Located On	1:06 L1 13.619		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	12-Feb-2012
Legal Land Location	NE SEC 36 TWP 24 RGE 5 W5M		Data Entry By	Lauren Korte
Longitude, Latitude	-114:33:38, 51:05:30		Data Entry Date	14-Mar-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	CMA28		Review Date	22-Feb-2012
Clear Roadway/Skew	13.1 /		Dept. Reviewer Name	
AADT/Year	19,240 / 2012 (A)		Dept. Review Date	
Road Classification	RFD-412.4-130		Follow-Up By	
Detour Length (km)	1			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	8000	4700	PCB	32			RECTANGLE
Special Features								
Special Features Comment								

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: MUNICIPAL 4.4m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	4.6	In Advance (Y/N)	Yes
Remarks		N/B posting is on E/B culvert.										

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	SOUTH R/W.		Gas
Power	South.		Municipal
Others	FIBRE OPTICS.		Problem (Y/N) No
Remarks Vacant conduit at both curbs.			

Approach Road / Embankment					
		Last	Now	Explanation of Condition	
Horizontal Alignment		6	6	Ridge Road.	
Vertical Alignment		6	6		
Roadway Width (m)	12.500				
Embankment		6	6		
Sideslope (___:1)	2.0				
(Height of Cover(m) : 0.1)					
Guardrail (Y/N)	Yes			WBL -E median turndown not properly buried. Galvanized bridge rail over culvert. Missing nut at NE transition bolt.	
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>		

Upstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction				North.	
End Treatment (Concrete, Steel, Others, None)	CONCRETE				
Headwall		8	8		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		8	8	Wingwall @ North end only-South end is common wall to 76182E.
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		X	X	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>8</b>	<b>8</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8000, Rise (mm): 4700, Type: PCB)				
Barrel Last Accessible Date	12-Feb-2012			
<b>Special Features</b>				
Special Feature				Safety Rail @ North wingwall and common walls. Accident damage to post and rail at bottom NW.
(Type : )				
Special Feature				
(Type : )				
Roof		8	8	
Measured Rise (mm)	4700			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	8	Narrow vertical crack in sidewall @ pile location.
Measured Span (mm)	8000			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		8	8	Concrete Floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	@ median - caulked.
Separation (mm)	35			
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8000, Rise (mm): 4700, Type: PCB)				
Coating		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>8</b>	<b>8</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				SOUTH-common wall with 76182E.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		X	X	
Wingwalls		8	8	Med vertical cracks.
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		X	X	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		5	5	Local road access to trans Canada Hwy.
Roadway Surface		7	5	Curves 90 deg @ North.
Gravel approaches.				
(Type : )				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		6	6	
Structure In Use (Y/N)	Yes			
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</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	2012	Attach WBL-E mid turndown to post correctly. Install 1 nut at approach/bridge transition.					
OTHER ACTION	2012	Repair safety rail-1 post and 2 rail sections.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>88.9/</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>84.9/</b>	Est. Repl. Yr	2070	Maint. Req. (Y/N)	
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	12-Nov-2013		Previous Inspection Date	14-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							