

Bridge Culvert Inspection				
Bridge File Number	74602 W-2 Bridge Culvert		Form Type	CUL1
Year Built	1995		Lot No.	4
Bridge or Town Name	MORLEY		Inspector Name	Garry Roberts
Located Over	MUNICIPAL		Inspector Class	BR CLS A
Located On	1:04 L1 14.395		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	10-Feb-2012
Legal Land Location	SW SEC 23 TWP 25 RGE 7 W5M		Data Entry By	Erin Roberts
Longitude, Latitude	-114:52:32, 51:08:36		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	12.8 / -31 deg. (LHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	18,610 / 2010 (A)		Dept. Review Date	22-Mar-2012
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	PI./Slab Thickness	Shape
1	MAIN	8400	4550	BPR	16			RECTANGLE
Special Features								
Special Features Comment								

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: MUNICIPAL 3.5m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	3.5	In Advance (Y/N)	No
Remarks	MEAS 4.4m-ROOF,3.95m-BOT CHAMFER NB Posting on BF 74602E											

Utilities (Located at)				
Utility Attachments				
Telephone	BOTH R/W & MEDIAN		Gas	
Power	30 m & 60m North , 3W & 5W		Municipal	
Others	FIBRE OPTICS @ North ditch		Problem (Y/N)	No
Remarks				

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		6	6	
Roadway Width (m)	13.000			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 0.1)				
Guardrail (Y/N)	Yes			Galv. tube rail and posts over structure.
<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		7	7	Hairline cracks & efflorescence

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		7	7	hairline & narrow cracking throughout
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
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): 8400, Rise (mm): 4550, Type: BPR)				
Barrel Last Accessible Date	10-Feb-2012			
<b>Special Features</b>				
Special Feature				Safety Handrail on North & South wingwalls
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	LEAKAGE & EFFLORESCENCE @ CONSTRUCT JOINT & 2-0.5 mm WIDE CRACKS.
Measured Rise (mm)	4550			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	0.5 mm WIDE VERT CRACKS @ SIDEWALL.
Measured Span (mm)	8400			Both walls covered with Graffiti
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		7	7	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	7	Seam at deck U/S
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8400, Rise (mm): 4550, Type: BPR)				
Coating		5	5	White sealer previously used to cover graffiti
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			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				SOUTH Common with 74602E
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		X	X	
Wingwalls		7	6	Narrow to medium cracking throughout
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		5	5	CURVE @ NORTH Gravel 8 m LOCAL ROAD GOES THROUGH BOX
Roadway Surface		5	5	
(Type : )				
Icing (Y/N)	No			
Traffic Safety Features		4	4	Spall at NW
Type	PARAPETS			

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>4</b>	<b>4</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							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>74.8/73.6</b>	Est. Repl. Yr	2058	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	10-Nov-2013		Previous Inspection Date	16-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							