Bridge Culvert Inspective Bridge File Number 74602 E-3 Bridge Culvert Form T Year Built 2009 Lot No Bridge or Town Name MORLEY Inspective Located Over MUNICIPAL Inspective						
Year Built2009Lot NoBridge or Town NameMORLEYInspectLocated OverMUNICIPALInspect	Туре	CUL1				
Bridge or Town Name MORLEY Inspect Located Over MUNICIPAL Inspect		4				
Located Over MUNICIPAL Inspec		Garry Roberts				
		BR CLS A				
Located On 1:04 L1 14.389 Assista						
	Assistant Name					
	Assistant Class Inspection Date					
		10-Feb-2012				
•			Lauren Korte			
	Data Entry Date		16-Mar-2012			
			Tom Carey			
	Review Date		22-Feb-2012 Tim Davies			
	Dept. Reviewer Name					
	Review Date	22-Mar-2012				
	-Up By					
Detour Length (km)						
Bridge Culvert Information						
Number of Culverts 1						
Pipe # Barrel Span Rise (or Dia.) Type	Length	Corr. Profile	PI./Slab Thickness	Shape		
1 MAIN 8030 5450 BPR	35.9		600.0	RECTANGLE		
Special Features						
Posting Informat	tion					
Required Vert. Clearance Posting (m) UNDER: MUNICIPAL 3.4m						
Posted Vertical Clearance (Y/N)						
Posted: Lane NB On Bridge (m) 3.5 In Advance (Y/N) No L	ane SB (On Bridge (m)	In Advar	nce (Y/N) No		
Remarks SB posting is on 74602W						
Remarks SB posting is on 74602W Utilities (Located	l at)					
	l at)					
Utilities (Located	l at)					
Utilities (Located						
Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Municip	ipal					
Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem	ipal					
Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem Remarks Fiber optics North Row Fiber optics	ipal m (Y/N) No					
Utilities (Located Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem Remarks Approach Road / Embed	ipal m (Y/N) No ankment	ition				
Utilities (Located Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem Remarks Approach Road / Embed	ipal m (Y/N) No	ition				
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Utilities (Located Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem Remarks Explan Horizontal Alignment 6 6 Vertical Alignment 6 6	ipal m (Y/N) No ankment	ition				
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Utilities (Located Utility Attachments Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Proble Remarks Approact Road / Embang Last Now Explan Horizontal Alignment 6 6 Your South Row Explan Horizontal Alignment 6 6 Roadway Width (m) 9.000 5 5 Steep	ipal m (Y/N) No ankment nation of Cond	ition				
Utilities (Located Utility Attachments Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem Remarks Last Now Explan Horizontal Alignment 6 6 Vertical Alignment 9.000 Item Steep Concrete Steep Concrete Embankment 5 5 Steep Concrete Sideslope (_:1) 1.1 Item Steep Concrete Concrete	ipal m (Y/N) No ankment nation of Cond					
Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem Remarks Approach Road / Embandrian Explan Horizontal Alignment 6 6 Vertical Alignment 9.000 Image: Colspan="2">Steep Embankment 5 5 Steep	ipal im (Y/N) No ankment nation of Cond					
Utilities (Located Utility Attachments Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem Remarks Expland Last Now Expland Horizontal Alignment 6 6 Vertical Alignment 9.000 Image: Concret Con	ipal im (Y/N) No ankment nation of Cond but currently sta ete slab.		SW.			
Utilities (Located Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Problem Others Fiber optics North Row Problem Remarks Approach Road / Embinities Horizontal Alignment 6 6 Vertical Alignment 9.000 Image: Concret (Height of Cover(m) : 0.8) Steep Concret (Height of Cover(m) : 0.8) Guardrail (Y/N) Yes Thriebe	ipal im (Y/N) No ankment nation of Cond but currently sta ete slab.	able at NE and \$	SW.			
Utilities (Located Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem Remarks Approach Road / Embankment Explan Horizontal Alignment 6 6 6 Vertical Alignment 9.000 Image: Colspan="2">Concred Embankment 5 5 Steep I Sideslope (_:1) 1.1 Thriebe Guardrail (Y/N) Yes Thriebe Approach Road / Embankment General Rating 6 6 Keneral Rating 6 6 6	ipal im (Y/N) No ankment nation of Cond but currently sta ete slab. eam and steel p	able at NE and S posts over struct	SW.			
Utilities (Located Utilities (Located Utility Attachments Gas Telephone South Row Gas Power North Row Munici Others Fiber optics North Row Problem Remarks Last North Row Explan Horizontal Alignment 6 6 Concre Horizontal Alignment 9.000 Explan Horizontal Alignment 5 5 Readway Width (m) 9.000 Embankment Sideslope (_:1) 1.1 Sideslope (_:1) 1.1 Thriebe Guardrail (Y/N) Yes Upstreat End Approach Road / Embankment General Rating 6 6 6 Culvert Component Last Now Explan	ipal im (Y/N) No ankment nation of Cond but currently sta ete slab. eam and steel p	able at NE and S posts over struct	SW.			
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Utilities (Located Utility AttachmentsTelephoneSouth RowGasPowerNorth RowMuniciOthersFiber optics North RowProblerRemarksProblerHorizontal AlignmentCoadway Width (m)9.000ExplanHorizontal Alignment66Vertical Alignment9.000Image: Concret optic	ipal im (Y/N) No ankment nation of Cond but currently sta ete slab. eam and steel p	able at NE and S posts over struct	SW.			
Utilities (Located Utility AttachmentsTelephoneSouth RowGasPowerNorth RowMunici Munici OthersMunici ProblerOthersFiber optics North RowProblerRemarksApproach Road / EmbarRoadway Vidth (m)9.000ExplanHorizontal Alignment66Koadway Width (m)9.000 $$ Steep ISideslope (_:1)1.1 $$ ConcretGuardrail (Y/N)Yes $$ ThrieberApproach Road / EmbankmentGeneral Rating66Approach Road / EmbankmentCONCRETENowExplanDirectionNExplanLastNowEnd Treatment (Concrete, Steel, Others, None)CONCRETENExplanInd Treatment (Concrete, Steel, Others, None)CONCRETEIntIntInd Treatment (Concrete, Steel, Others, None)ConcretIntIntInd Treatment (Concrete, Steel, Others, None)ConcretIntIntInd Treatment (Concrete, Steel, Others, None)ConcretIntIntInd Treatment (Concrete, Steel, Others, None)IntIntIntInterventionIntIntIntInterventionIntIntInterventionIntIntInterventionIntIntInterventionIntIntIntIntIntIntIntIntIntIntIntIntInt <td>ipal im (Y/N) No ankment nation of Cond but currently sta ete slab. eam and steel p</td> <td>able at NE and S posts over struct</td> <td>SW.</td> <td></td>	ipal im (Y/N) No ankment nation of Cond but currently sta ete slab. eam and steel p	able at NE and S posts over struct	SW.			

Alberta Transportation

Upstream End							
Culvert Component		Last	Now	Explanation of Condition			
Wingwalls	·	9	9	North end is common with 74602W.			
(Shape :)							
Cutoff Wall		Х	Х				
Bevel End		X	X				
Heaving (mm)	0						
Invert Above/Below Stream Bed							
Above/Below (mm)	0		1				
Scour Protection		7	7				
(Type : NATURAL)							
(Avg. Rock Size(mm) :)							
Scour/Erosion		7	7				
Beavers (Y/N)	No		1				
Upstream End General Rating		7	7				
		Brid	ae Cui	vert Barrel			
Culvert Component				Explanation of Condition			
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN. Spa	-					
Barrel Last Accessible Date	10-Feb-2012	<u> </u>	<u>, </u>				
Special Features		1	1				
Special Feature							
(Type :)							
Special Feature							
(Туре :)							
Roof	1	9	8				
Measured Rise (mm)							
Measured At Ring No.							
Sag (mm)							
Percent Sag							
Sidewall	1	9	8				
Measured Span (mm)							
Measured At Ring No.							
Deflection (mm)							
Percent Deflection							
Floor	1	9	8				
Bulge (mm)							
Measured At Ring No.							
Abrasion (Y/N)			-				
Circumferential Seams		Х	X				
Separation (mm)							
Longitudinal Seams		Х	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		Х	X				
Corrosion By Soil (Y/N)	No						
Corrosion By Water (Y/N)	No						

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

74602 E-3 Bridge Culvert

Culver ComponentImage Series (Construction Code: MAIN. Space (Code: MAI	Bridge Culvert Barrel						
Camber POS/ZERO/NEGZEROIIIPonding (Y/N)NoXXSBaffleXXXCRish Passage AdequacyXXXXChype :)XXXXChype :)NoXXXSilling (Y/N)NoXXXSilling (Y/N)SXXXSilling (Y/N)SXXXSilling (Y/N)SXXXSilling (Y/N)SXXXSilling (Y/N)SXXXSilling (Y/N)SXXXSilling (Y/N)SXXXSilling (Y/N)SXXXSilling (Y/N)SXXXSilling (Y/N)S </th <th>Culvert Component</th> <th></th> <th></th> <th></th> <th></th>	Culvert Component						
Ponding (Y/N)NoImage: Second s	(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, S	ipan (mm): 8030	9, Rise (mm): 5450, Type: BPR)		
Fish Passage AdequacyXXXXBaffleXXXCrype :)XXXUrit (rype :)XXXSilling (rYh)NoXXDrit (rYh)NoXXBarrel General RatingNoXXBarrel General RatingNoKXDirt (rYh)NoKXXBarrel General RatingNoKXDirt (rYh)NoKNoDirectionCONCRETEKNoDirectionCONCRETEYKHeadwallCONCRETEYYHeadwallCONCRETEYYKing (rW)NoYYKing (rW)YYYSour ProteinYYYInvert Above/Below (rmm)OYCourler (rVin)NoYSour ProteinTYType : NATURAL)YYType : NATURAL)YYCourler (rVin)NoYBeavers (rVin)NoYSour ProteinYYType : NATURAL)YYType : NATURAL)YYSour ProteinYYRadeward (rVin)NoYDeverserionYYType : NATURAL)YYType : NATURAL)YYRadeward (rVin)NoYRadeward (rVin)NoY </td <td>Camber POS/ZERO/NEG</td> <td>ZERO</td> <td></td> <td></td> <td></td>	Camber POS/ZERO/NEG	ZERO					
Baffle (Type :)XXXBaffle (Type :)XXXVareway AdequacyXXXIring (Y/N)NoVDrift (Y/N)NoVDrift (Y/N)NoVBarrel General Rating98Culvert ComponentLastNoDirectionLastNoDirectionCONCRETEFalantion of ConditionDirectionVVHeadwallCONCRETE9Gharpe :)YXCulorff WallXXBevel EndXXHeaving (mm)0VOctoretoion7TSour Protection7TCrype in NTURAL) (Arg. Rock Steelm Medication)7Crype in NTURAL) (Arg. Rock Steelm Medication)7Roadward Steelm Medication7Bavers (Y/N)NoRoadward Steelment7Roadward Steelment7Roadward Steelment5Sour/Erosion7Roadward Steelment7Roadward Steelment7Roadward Steelment5Sour/Erosion7Roadward Steelment7Roadward Steelment5Sour/Erosion7State Steelment7State Steelment5State Steelment5State Steelment5State Steelment5State Steelment5State Steelment5	Ponding (Y/N)	No					
(Type :)Image: Second	Fish Passage Adequacy		X	X			
(Type :)VVWaterway AdequacyXXXIting (Y/N)NoDrift (Y/N)NoVBarrel General RatingVVBarrel General RatingVVCulvert ComponentLassVCulvert ComponentLassVCulvert ComponentColSpan="2">ColSpan="2"Mater Source So	Baffle		X	Х			
Waterway AdequacyXXXIcing (V/N)No>Silting (Y/N)No>Drift (Y/N)No>Barrel General RatingygBarrel General RatingyyBarrel General RatingSExplanation of ConditionDirectionSSEnd Treatment (Concrete, Steel, Others, None)CONCRETEyBradwallYyYyyCollarSyCollarYyYyyYyyYyyYyyYYXAbove/Below Stream BedQYAbove/Below (mm)QYYYYYYYScour/ProtectionYYYYStream End General RatingYGrade SeparationYGrade SeparationYRoad MajnentSSodadyn SufaceSSodadyn SufaceY							
Icing (Y/N)NoNoDritt (Y/N)NoIDritt (Y/N)NoIBarrel General Rating98Culvert ComponentLastNowExplanation of ConditionSDirectionSEnd Treatment (Concrete, Steel, Others, None)CONCRETEHeadwallSSCollarSSourp Response99(Shape :)YKing walls9Steel EndXKing wallsYSevere (M)0Sour ProtectionYType : NATURAL)YKay Response7Grade Size(mm) :)YSour/Erosion7Type : NATURAL)YResers (Y/N)NoNoSSour/Erosion7To Rate Size(mm) :)YSour/ResonanceYReade Size(mm) :)YSour/Resonance7Sour/Resonance7Reade Size(mm) :)YSour/Resonance7Sour/Resonance7Read Nation (Size(mm) :)YSour/Resonance7Sour/Resonance7Sour/Resonance7Sour/Resonance7Sour/Resonance7Sour/Resonance7Sour/Resonance5Sour/Resonance5Sour/Resonance5Sour/Resonance5Sour/Resonance5Sour/Resonance5			Х	X			
NoNoNoDrift (Y/N)NoVoBarrel General Rating98Culvert ComponentLastExplanation of ConditionDirectionSExplanation of ConditionDirection99End Treatment (Concrete, Steel, Others, None)ONYHeadwall99Collar99CollarNo8WingwallsY9Shape :)YXCutoff WallXXBevel EndXXHeaving (mm)0Invert Above/Below Stream Bed Above/Below Stream Bed77Rock Size(mm) :)77Scour/Protocion77Invert Above/Size(mm) :)77Beavers (Y/N)No2Beavers (Y/N) <td></td> <td>No</td> <td></td> <td></td> <td></td>		No					
Drift (V/N)NoImage: second sec		No					
Under State S		No					
Culvert ComponentLastNowExplanation of ConditionDirectionSEnd Treatment (Concrete, Steel, Others, None)ONCRETEIHeadwallCONCRETE99HeadwallY99CollarXXYCollarXXY(Shape :)XX(Shape :)XXCutoff WallXXHeaving (mm)0XNove /Below (thm)0	Barrel General Rating		9	8			
Culvert ComponentLastNowExplanation of ConditionDirectionSEnd Treatment (Concrete, Steel, Others, None)ONCRETEIHeadwallCONCRETE99HeadwallY99CollarXXYCollarXXY(Shape :)XX(Shape :)XXCutoff WallXXHeaving (mm)0XNove /Below (thm)0			D	ownst	ream End		
DirectionSEnd Treatment (Concrete, Steel, CONCRETE Others, None)CONCRETEHeadwall $\ \ \ \ \ \ \ \ \ \ \ \ \ $	Culvert Component						
End Treatment (Concrete, Steel, OHCRETE CONCRETE Wingwalls 9 9 Collar X X Vingwalls 9 9 (Shape :) 9 9 (Shape :) 9 9 (Shape :) X X Bevel End X X Heaving (mm) 0			1				
CollarIIICollarXXWingwalls99(Shape :)YYCutoff WallXXBevel EndXXHeaving (mm)0Invert Above/Below Stream BedAbove/Below (mm)0Scour/ Protection77Crype : NATURAL)(Avg. Rock Size(mm) :)77Scour/Erosion77Beavers (Y/N)NoBeavers (Y/N)No	End Treatment (Concrete, Steel,	CONCRETE					
Wingwalls (Shape : .)99Quotif WallXXBevel End Heaving (mm)0XDowe/Below Stream Bed Above/Below (mm)0	· · · · · · · · · · · · · · · · · · ·	· 	9	9			
(Shape :)Cutoff WallXXBevel EndXXHeaving (mm)0-Invert Above/Below Stream BedAbove/Below (mm)0-Scour Protection77(Type : NATURAL) (Type : NATURAL)77(Avg. Rock Size(mm) :)77Scour/Erosion77Beavers (Y/N)NoDownstream End General Ratire77Cade SeparationLastNowGrade Separation55Road Alignment55Road Alignment55	Collar		X	Х			
(Shape :)Cutoff WallXXBevel EndXXHeaving (mm)0	Wingwalls		9	q			
Cutoff WallXXXBevel EndXXXHeaving (mm)0 $-$ Invert Above/Below Stream Bed $ -$ Above/Below Stream Bed $ -$ Above/Below (mm)0 $-$ Scour Protection77(Type : NATURAL) (Type : NATURAL) $-$ (Avg. Rock Size(mm) :) $-$ Scour/Erosion77Beavers (Y/N)No $-$ Endemental RationT77T77Grade Separation55Road Alignment55Road Alignment55Road Alignment55				U	-		
Heaving (mm)0ooInvert Above/Below Stream Bed Above/Below (mm)0-Scour Protection77(Type : NATURAL) (Avg. Rock Size(mm) :)77Kaver S (Y/N)No7Beavers (Y/N)No-Downstream End General Rative77T77Crade Separation55Road Alignment55Road Alignment55			X	X			
Heaving (mm)0oInvert Above/Below Stream Bed0	Bevel End		X	Х			
Invert Above/Below Stream Bed Image: Constraint of Condition Above/Below (mm) 0 Image: Constraint of Condition Scour Protection 7 7 (Type : NATURAL) (Avg. Rock Size(mm) :) 7 7 Scour/Erosion 7 7 Beavers (Y/N) No 7 7 Downstream End General Ratius 7 7 7 Image: Constraint of Condition Constraint of Condition Constraint of Condition Grade Separation 5 5 Road Alignment 5 5 Roadway Surface 5 5		0					
Scour Protection77(Type : NATURAL) (Avg. Rock Size(mm) :)77Scour/Erosion77Beavers (Y/N)NoDownstream End General Ratiry77T77LastNowExplanation of ConditionGrade Separation55Road Alignment55Roadway Surface55	· · · · · · · · · · · · · · · · · · ·						
(Type : NATURAL) (Avg. Rock Size(mm) :)Scour/Erosion77Beavers (Y/N)NoDownstream End General Ratiry77Counce Counce Cou	Above/Below (mm)	0					
(Avg. Rock Size(mm) :)Scour/Erosion77Beavers (Y/N)NoDownstream End General Rating77T77Cource Structure UsageExplanation of ConditionGrade Separation55Road Alignment55Roadway Surface55	Scour Protection		7	7			
Scour/Erosion777Beavers (Y/N)NoIIDownstream End General Rating777Image: Constraint of ConditionImage: Constraint of ConditionGrade SeparationGrade Separation5Road Alignment55Roadway Surface55	(Type : NATURAL)						
Image: Seawers (Y/N)NoImage: Seawers (Y/N)NoDownstream End General Rating77Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3"Downstream End General Rating77Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3">Colspan="3"Colspan="3">Colspan="3">Colspan="3">Colspan="3"Colspan="3">Colspan="3"<	(Avg. Rock Size(mm) :)						
Downstream End General Rating 7 7 T 7 7 Last Now Explanation of Condition Grade Separation Road Alignment 5 5 Roadway Surface 5 5	Scour/Erosion		7	7			
Image: Constraint of Condition Image: Constraint of Constraint of Condition Image: Constraint of Constraint	Beavers (Y/N)	No					
Last Now Explanation of Condition Grade Separation 5 5 Road Alignment 5 5 Roadway Surface 5 5	Downstream End General Ratin	ng	7	7			
Last Now Explanation of Condition Grade Separation 5 5 Road Alignment 5 5 Roadway Surface 5 5				Structu	re Usage		
Grade Separation Road Alignment 5 Roadway Surface 5							
Road Alignment55Roadway Surface55	Grade Separation						
			5	5			
	Roadway Surface		5	5			
(Type: GRAVEL)	(Type : GRAVEL)						
Icing (Y/N) No	Icing (Y/N)	No					
Traffic Safety Features 8 8	Traffic Safety Features		8	8			
Type Jersey Barrier		Jersey Barrier					
Lighting X X	Lighting		X	Х			
Barrel Leakage (Y/N) No	Barrel Leakage (Y/N)	No					

Structure Usage							
		Last	Now	Explanation of Condition			
Drainage		6	6				
Structure In Use (Y/N) Yes							
Grade Separation General Rating		5	5				

Maintenance Recommendations										
Inspector Recommendations	Year Inspector Comments			Department Comments				Est. Cost	Cat #	
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	L CONCRETE/STEEL LINING									
INSTALL STRUTS	NSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTC)FF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No. (%)	/Now) 100.0/88.9 Sufficiency Rating (Last/No (%)		ow) 8	37.5/81.5	Est. Repl. Yr	st. Repl. Yr 2078		Maint. Reqd. (Y/N)		
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Total	0	
Proposed Long-Term Strategy					· · · · ·					
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Garry Roberts Previous			Previous A	Assistant's Name						
Next Inspection Date	ate 10-Nov-2013 Previou			Previous I	nspection Date	16-Sep-2010				
Inspection Cycle (Default) (months)	21									
Comment										