

Bridge Culvert Inspection			
Bridge File Number	79206 SW-2 Bridge Culvert	Form Type	CUL1
Year Built	1979	Lot No.	3
Bridge or Town Name	CALGARY	Inspector Name	Garry Roberts
Located Over	TRAIL-PED, Trail Inside the Culvert on the SW Ramp	Inspector Class	BR CLS A
Located On	RAMP 4096-1 A	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Jan-2013
Legal Land Location	SE SEC 23 TWP 23 RGE 1 W5M	Data Entry By	Lauren Korte
Longitude, Latitude	-114:02:06, 50:58:02	Data Entry Date	17-Feb-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	DEERFOOT/STONE Y	Review Date	30-Jan-2013
Clear Roadway/Skew		Dept. Reviewer Name	Tim Davies
AA DT/Year		Dept. Review Date	21-Feb-2013
Road Classification		Follow-Up By	
Detour Length (km)			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	4720	3070	RPP	30	152X51	3.0	PIPE ARCH
Special Features	CONC FLOOR							
Special Features Comment								

Posting Information

Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)		In Advance (Y/N)
Remarks	Not Required.										

Utilities (Located at)

Utility Attachments											
Telephone						Gas					
Power	Box @ SE.					Municipal	Sewer @ South.				
Others	Light standards.					Problem (Y/N)	Yes				
Remarks	Lighting in barrel-2 lights. Conduit welded to roof. Lights not operational.										

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	On curve. Pedestrian structure.
Vertical Alignment		5	5	City # B1713
Roadway Width (m)	7.000			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 1.5)				
Guardrail (Y/N)	Yes			150x150mm HSS on I-beam posts.
Approach Road / Embankment General Rating		5	5	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		North end. 3 medium width vertical cracks.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	

Bridge Culvert Barrel

Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4720, Rise (mm): 3070, Type: RPP)				
Barrel Last Accessible Date	24-Jan-2013			
Special Features				
Special Feature			7	
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		7	7	Shape good. Drilled holes (1/4) in roof at end. Est.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	30			
Percent Sag				
Sidewall		7	7	
Measured Span (mm)	4750			
Measured At Ring No.	3			
Deflection (mm)	30			
Percent Deflection				
Floor		7	N	Concrete floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4720, Rise (mm): 3070, Type: RPP)				
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Isolated corrosion at sidewall seams and roof.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
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			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		South end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	Covered in with stairway concrete.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	6	Minor erosion at NE manhole.
Beavers (Y/N)	No			
Downstream End General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	45 degrees at North and stairway at South.
Roadway Surface		6	6	
(Type : CONCRETE)				ACP at North.
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
Lighting		4	4	Lights welded to west upper sidewall- (not operational). Could not confirm.
Barrel Leakage (Y/N)	No			
Drainage		7	7	
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		5	5	

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	2013	Repair lighting (if not already done).					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	81.4/81.4	Est. Repl. Yr	2033	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	24-Oct-2014		Previous Inspection Date	17-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							