

Bridge Inspection										
Bridge File Number	01059 E-2 Bridge				Form Type	PCS				
Year Built/Year Supstr	1993/1993				Lot No.	2				
Bridge or Town Name	WALSH				Inspector Name	Tom Carey				
Located Over	MACKAY CREEK, 28, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	1:22 R1 44.106				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	08-Feb-2012				
Legal Land Location	NW SEC 26 TWP 11 RGE 1 W4M				Data Entry By	Lauren Korte				
Longitude, Latitude	-110:02:50, 49:56:29				Data Entry Date	22-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts				
Contract Main. Area	CMA23				Review Date	26-Feb-2012				
Clear Roadway/Skew	13.2 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	5,160 / 2011 (A)				Dept. Review Date	29-Mar-2012				
Road Classification	RFD-412.4-130				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	CS750									----> Primary Span

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	North R/W.				Gas					
Power	300 m WEST.				Municipal					
Others	Water monitoring shack @ SW.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Business access East.				
Vertical Alignment			8	8					
Roadway Width (m)	13.000								
Approach Bump			7	7					
Guardrail (Y/N)			Yes		All lower bolts missing @ guardrail to bridge rail connection.				
Guardrail			4	4	Missing 4 splice bolts at SW, NE, SE. Not thriebeam.				
Length (m)			70.000						
Current Standard (Y/N)			No						
Termination Type			TURNED DOWN						
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SCC, 3 Spans, Lengths(m): 12-10-12, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			8	7	Isolated longitudinal and transverse cracks.
(Material Type : ACP)					
(Thickness(mm) : 150)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			X	X	
Bump (Y/N)		No			
Deck Drainage			4	4	Missing extension @ NW deck drain @ Sp2. SE drain clogged.
Drains Clogged (Y/N)		Yes			
Curbs/Median			7	7	Several typical hairline vert. cracks and random hairline cracks on top of curb.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	1 A/B nut not fully tight at SP1 NW. Missing 1 cap bolt @ South.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			5	5	Corrosion stains @ shrinkage crack @ field cast section @ South side of East pier. Typical narrow diagonal and longitudinal cracks in bottoms in 7 of 36 girders. Similar staining in other diaphragm locations.
Last Complete Inspection Date		08-Feb-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 12)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : CONCRETE)						
(Depth(mm) : 850)						
(Width(mm) : 600)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		0.80				
Wingwalls				7	7	
(Total Number of Bearing Piles : 0:0)				Buried.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	10	0	0	0		
Now	10	0	0	0		
Piles				N	N	
Paint/Coating				6	6	
Abutment Stability				7	7	
Scour/Erosion				5	5	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : CONCRETE)						
(Depth(mm) : 600)						
(Width(mm) : 700)						
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				8	8	
Greatest Height (m)		4.00				
Bracing/Struts/Sheathing				8	8	
Nose Plate				X	X	
Paint/Coating				7	7	
Galvanized piles. Pigmented at caps.						
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)	1.3			From 2010 flood.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	Based on 2010 HWM.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Install 100 mm Dia X 100 mm PVC Drain Extension @ NW.					
OTHER ACTION	2012	Clear SE Drain.					
OTHER ACTION	2012	Install 4 bolts @ guardrail to bridgerail.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	64.1/64.1	Est. Repl. Yr	2048	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	08-Nov-2013		Previous Inspection Date	13-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							