

Bridge Inspection									
Bridge File Number	01059 W-1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1977/1977				Lot No.	1			
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 L1 44.079				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	13.7 /				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:	HS25						----> 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)		In Advance (Y/N)		At Bridge (Y/N)			
Posted:	Lane	WB	At Junction (Y/N)		No	In Advance (Y/N)		No	At Bridge (Y/N)	No
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	300m West.				Municipal				
Others					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)	13.200								
Approach Bump		6	6						
Guardrail (Y/N)		Yes		Wrong lap at SE.					
Guardrail		4	4	Not thriebeam.					
Length (m)	60.000								
Current Standard (Y/N)		No							
Termination Type		TD							
Drainage		6	3	Erosion under abut cap A N1W1- 300 mm DP.					
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 10.7-10.7-10.7, 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			5	5	Longitudinal cracks between girders and random.
(Material Type : CONCRETE)					
(Thickness(mm) : 150)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			8	8	
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Flex cracks every 0.5-0.7 m & along outside of curb. Light scaling. Curbs have been sealed
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	Pads- re-grouted. Several posts missing one cap bolt.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		5	6		
(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	1	
Now	0	0	0	3	
Girders			3	3	Girder #7 @ center span has wide Longitudinal crack with corrosion staining approx 6m long. Exterior girders @ East and West spans have narrow cracks with corrosion stains. Corrosion stains due to connector typical Typ. narrow longitudinal cracks at underside of several girders. Girders 5 and 6 have medium width longitudinal cracks without corrosion staining @ center span.
Last Complete Inspection Date		08-Feb-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 36)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	Rated 3 due to concrete overlay.

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(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				6	6	
(Type : CONCRETE)						
(Depth(mm) : 800)						
(Width(mm) : 500)						
Backwalls/Breastwalls				X	X	
Greatest Height (m)		1.10				
Wingwalls				6	6	
(Total Number of Bearing Piles : 0:0)				Buried.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	20	0	0	0		
Now	1	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				4	3	
Erosion 300mm DP and 200mm Gully @ NW extends under NW abutment corner.						
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				4	4	
(Type : CONCRETE)						
(Depth(mm) : 500)						
(Width(mm) : 400)						
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		4.50				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						
Spall @ East side of East cap repaired.						
West side of West pier cap extensive map cracking and surface spalling.						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)	1.1			From 2010 flood.
Drift (Y/N)	No			
Slope Protection		5	5	
(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	2012	Repair NW Erosion 1m3 Granular.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION	2012	Seal Deck- GFE longitudinal cracks.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	53.1/53.1	Est. Repl. Yr	2023	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							