

Bridge Inspection											
Bridge File Number	77091 WC-3 Bridge					Form Type	PSR				
Year Built/Year Supstr	1970/1970					Lot No.	3				
Bridge or Town Name	CHESTERMERE					Inspector Name	Jason Rusu				
Located Over	1A:08 R1 4.420;1A:08 L1 4.421					Inspector Class	BR CLS A				
Located On	1:10 C1-1OL 8.150					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	03-Mar-2012				
Legal Land Location	SW SEC 23 TWP 24 RGE 28 W4M					Data Entry By	Anne Roberts				
Longitude, Latitude	-113:48:43, 51:03:09					Data Entry Date	28-Mar-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts				
Contract Main. Area	CMA30					Review Date	07-Mar-2012				
Clear Roadway/Skew	7.2 /					Dept. Reviewer Name	Tim Davies				
AADT/Year						Dept. Review Date	29-Mar-2012				
Road Classification	RFD-412.4-130					Follow-Up By					
Detour Length (km)	1										
Allowable Load (t):	Single	CS1 38 GIRDER			Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 1A L1 5.4m, 1A R1 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.3	In Advance (Y/N)	Yes
Remarks		E/B posting on 77091 E										
Required Load Posting (t)			Single		Semi			Truck Train				
Posted Loading (t)			Single		Semi			Truck Train				
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	SB	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	AT MEDIAN.					Gas						
Power	ATTACHED TO BOTH ABUTMENTS.					Municipal						
Others	STREET LIGHTS.					Problem (Y/N)	No					
Remarks												

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		5	5		
Vertical Alignment		7	7		
Roadway Width (m)	7.200			(Potholed @ SE Shoulder- 1x0.5 m)12-Oct-2010 Ice covered cannot confirm	
Approach Bump		4	N		
Guardrail (Y/N)	Yes			Missing 4 splice bolts at SE and 4 missing splice bolts at NW Not thriebeam	
Guardrail		4	4		
Length (m)	38.000				
Current Standard (Y/N)	No				
Termination Type	TURNED DOWN ENDS				
Drainage		5	5		
Approach Road General Rating		5	5		

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FC, 2 Spans, Lengths(m): 24.4-24.4, A-Ident Number:)						
Special Features						
Special Feature		8	8	7		
(Type : EXT LATER POST TENS)						
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		6	6	Some cracking @ patches		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top		N	N			
Deck Rideability		7	7			
Deck Joints		5	N	Cracks in top surface of pier joint gland. No sign seal is leaking New abutment joints in 2010 Joints gravel/ice covered		
Temperature (deg. C)		5				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)		Gap Location				
70	N ABUT					
73	PIER					
74	S ABUT					
Deck Drainage		7	7	NO DECK DRAINS.		
Drains Clogged (Y/N)		No				
Curbs/Median		7	7			
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail		7	7			
(Type : BRIDGE TUBE)						
Bridge Rail Posts		7	7	Paint over galvanizing		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		6	5			
(Type : PAINT)						
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	Typical FC Girder end cracked Narrow to medium width Rating increase for strengthening		
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 10)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 24.4-24.4, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		5	5	SS distorted from steel plate corrosion stress Minor debonding of teflon slider at North Bearings are tied over pier
Temperature (deg. C)	5			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Corrosion stains @ deck underside @ SW & median wide longitudinal crack
Stains (Percent Area)	1			
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				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		8	8	Tar coating
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 3)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		X	X	
Type				
Slope Protection		8	8	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	patch SE Approach shoulder 1x0.5m if not already done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	55.9/55.9	Est. Repl. Yr	2045	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	03-Dec-2013		Previous Inspection Date	12-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							