

Bridge Inspection									
Bridge File Number	82414 W-2 Bridge				Form Type	SG			
Year Built/Year Supstr	2009/2009				Lot No.	2			
Bridge or Town Name					Inspector Name	Garry Roberts			
Located Over	NOSE CREEK, WATERCRS-NI				Inspector Class	BR CLS A			
Located On	201:08 L1 22.777				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	20-Aug-2011			
Legal Land Location	SW SEC 36 TWP 25 RGE 1 W5M				Data Entry By	Alyssa Boynton			
Longitude, Latitude	-114:01:00, 51:10:34				Data Entry Date	06-Sep-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	DEERFOOT/STONE Y				Review Date	24-Aug-2011			
Clear Roadway/Skew	24.5 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	25,040 / 2010 (A)				Dept. Review Date	08-Sep-2011			
Road Classification	UFD-616.6-110				Follow-Up By				
Detour Length (km)									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CL800						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not req.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not req.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	Crosses at West and in South row.				Municipal	Light standards			
Others	Unknown utility manholes at NW and NE.				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Estimate Bump from settlement in Right hand lane at East approach.				
Vertical Alignment			7	7					
Roadway Width (m)	27.000				Thriebeam 14m at D/S Ne corner. Continuous at other 3 corners.				
Approach Bump			8	4					
Guardrail (Y/N)	Yes								
Guardrail			8	8					
Length (m)	14.000								
Current Standard (Y/N)	Yes								
Termination Type	Attenuator								
Drainage			7	3	1 x 0.5 x 0.5 deep erosion and settlement of ACP at North East corner also contributing to slope erosion.				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 3 Spans, Lengths(m): 24-31-24, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			9	8	Waterproof membrane and ACP over HPC deck.
(Material Type : <b>MIX TYPE 1 ACP</b> )					
(Thickness(mm) : <b>80</b> )					
Deck Top			N	N	Paved over.
Deck Rideability			9	8	
Deck Joints			X	X	Integral
Temperature (deg. C)					
(Expansion Type : )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
Deck Drainage			7	7	Drains on grade to east
Drains Clogged (Y/N)		No			
Curbs/Median			9	8	
(Curb Type : <b>JERSEY/F SHAPE</b> )					
Scaling (Percent Area)		0			
Bridge Rail			X	X	
(Type : )					
Bridge Rail Posts			X	X	
(Type : )					
Bridge Rail/Posts Coating			X	X	
(Type : )					
Sidewalk			X	X	
<b>Girder/Beam</b>					
Cover Plate			X	X	7 girders/ span
Flange			9	8	
Web			9	8	
Stiffeners			9	8	
Splice			9	8	
Weld			9	8	
Diaphragms/Cross Frame			9	8	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
<b>(Primary Span : WG, 3 Spans, Lengths(m): 24-31-24, A-Ident Number: )</b>				
Paint Condition		X	X	Weathering Steel
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		9	8	At P1 and P2. Integral at abuts.
Temperature (deg. C)	23			
(Expansion Type : )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		9	8	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>9</b>	<b>8</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		N	N	Integral
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		9	8	
Wingwalls		8	8	
Piles		N	N	Buried.
Paint/Coating		8	8	Pigmented sealer
Abutment Stability		9	8	
Scour/Erosion		7	3	Erosion along North East and North West wings and full height of both head slopes - up to 1m deep.
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		9	8	
(Type : )				
(Total Number of Bearing Piles : <b>3:3</b> )				
Pier Shaft/Piles		9	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		8	7	Pigmented sealer
(Colour Description : )				
(Colour Code : )				
Pier Stability		9	8	
Scour		8	8	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>9</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		5	6	
Bank Stability		7	8	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		7	7	Natural at headslopes. CL. 1M at creek banks.
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2011	Repair erosion at North East corner and both abutments.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Pave patch at North East.					
OTHER ACTION	2012	Place concrete slope drains at North East and North West corners.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>100.0/88.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>73.5/70.0</b>	Est. Repl. Yr	2083	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	20-May-2013		Previous Inspection Date	24-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							