

Bridge Inspection									
Bridge File Number	77251 W-2 Bridge					Form Type	CON		
Year Built/Year Supstr	1976/1976					Lot No.	2		
Bridge or Town Name						Inspector Name	Garry Roberts		
Located Over	2:15 L1 37.203;2:15 R1 37.111					Inspector Class	BR CLS A		
Located On	10245:02 L1 0.083					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	08-Jan-2013		
Legal Land Location	SE SEC 35 TWP 24 RGE 1 W5M					Data Entry By	Lauren Korte		
Longitude, Latitude	-114:02:06, 51:04:54					Data Entry Date	28-Jan-2013		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey		
Contract Main. Area	DEERFOOT/STONE Y					Review Date	17-Jan-2013		
Clear Roadway/Skew	12.2 /					Dept. Reviewer Name	Tim Davies		
AADT/Year						Dept. Review Date	29-Jan-2013		
Road Classification						Follow-Up By			
Detour Length (km)									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:							----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)		UNDER: 2 R1 5.2m										
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.1	In Advance (Y/N)	No
Remarks		N/B posting on 77251 East.										
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 Required.										

Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types												

Utilities (Located at)												
Utility Attachments												
Telephone	At SW.					Gas						
Power	North and South ROW.					Municipal		Manhole at NW.				
Others	Light standards, under deck lighting.					Problem (Y/N)		No				
Remarks												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Controlled intersection at both ends. B2134.
Vertical Alignment		6	6	
Roadway Width (m)	24.000			Both structures recently paved.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			HSS rail on I-beam posts. Not attached to 3 posts at NW and 5 posts at NE. Accident damage at NE approx 25m of rail and 11 posts. Repairs appear in progress at inspection.
Guardrail		4	3	
Length (m)	99.000			
Current Standard (Y/N)	Yes			
Termination Type	Turn down			
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>CB, 2 Spans, Lengths(m): 42.7-47.2, 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			6	6	Narrow longitudinal cracks.
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			5	5	Several small sections of top angle missing at West joint but still sound.
Temperature (deg. C)		-1			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
55	E. Abut.				
70	W. Abut.				
Deck Drainage			6	6	Stained between structures from longitudinal median joint.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		2			
Bridge Rail			7	7	12 post A/B with nuts not fully engaged.
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			4	4	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			5	5	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girders			X	6	Voided slab.
Diaphragms/Cross Frame			X	X	
Bearings			5	5	Covered with expanded metal mesh to keep pigeons out. Visible only from ends. Integral at pier.
Temperature (deg. C)		-1			
(Expansion Type : <b>POT BEARING</b> )					
(Fixed Type : )					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			4	4	Minor high load damage at NW. Scaling and corrosion at NE deck overhang soffit.
Stains (Percent Area)		5			
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>CB, 2 Spans, Lengths(m): 42.7-47.2, A-Ident Number: )</b>				
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats		6	6	
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		4	4	Peeling.
Abutment Stability		7	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Integral at pier.
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		6	6	
Traffic Safety Features		6	6	Metal barrier and cable barrier systems at center median.
Type	Cable			
Slope Protection		6	4	30mm wide crack at NW with voids to 300mm deep and extends up to NW wingwall and 4m long crack at NE.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		6	6	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Repair approach rail and posts.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Patch and seal scaled area at NE deck overhang soffit and under median joint.					
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	2013	Patch high load damage 0.5m2.					
OTHER ACTION	2013	Seal slope protection cracks and gaps approx 25m.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>50.1/50.1</b>	Est. Repl. Yr	2031	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-Oct-2014		Previous Inspection Date	12-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							