

Bridge Inspection										
Bridge File Number	77201 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1970/1970				Lot No.	4				
Bridge or Town Name	CALGARY - MCKNIGHT BLVD				Inspector Name	Garry Roberts				
Located Over	CPR				Inspector Class	BR CLS A				
Located On	10250:02 R1 0.000;LOCAL ROAD				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	10-Jan-2013				
Legal Land Location	SW SEC 2 TWP 25 RGE 1 W5M				Data Entry By	Lauren Korte				
Longitude, Latitude	-114:02:46, 51:05:46				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	30.2 / 16 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year					Dept. Review Date	29-Jan-2013				
Road Classification	RLU-208-100				Follow-Up By					
Detour Length (km)	10									
Allowable Load (t):	Single		Semi		Train		---> On Critical Spans --->Critical Member			
Design Loading:	HS20				---> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)										No		
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)	No	
Remarks												Not Required.
Required Load Posting (t)			Single		Semi		Truck Train					
Posted Loading (t)			Single	30.0	Semi	47.0	Truck Train		63.0			
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	Yes				
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	Yes	At Bridge (Y/N)	No				
Remarks												WB sign is located East of BF 77199.

Hazard Marker At Bridge (Y/N)	No										
Remarks											
Other Sign Types	Route, 50km/h. Danger Do Not Jump Over Handrail.										

Utilities (Located at)										
Utility Attachments										
Telephone	Under East span.				Gas					
Power	Multiple wires 100m West.				Municipal					
Others	Light standards.				Problem (Y/N)	No				
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curve @ ramp. B4310.
Vertical Alignment		6	6	On crest curve grade down to West.
Roadway Width (m)	30.000			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			Parapets.
Guardrail		7	7	
Length (m)	12.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNDOWN			
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>5</b>	<b>5</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 11.6-15.8-13.7, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	50% Snow covered.
<b>Last</b>	0	0	0	0	
<b>Now</b>	50.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : <b>POLYMER MODIFIED ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved over.
Deck Rideability			8	8	
Deck Joints			8	8	Neoprene joint over center median gap. Seals are snow filled but no evidence of leakage.
Temperature (deg. C)		-10			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
75		E abut			
75		E pier			
65		W pier			
70		W abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	6	Minor cracks at South post exteriors.
(Curb Type : <b>JERSEY/F SHAPE</b> )					
Scaling (Percent Area)		10			
Bridge Rail			7	7	Plastic bridgerail at South parapet only.
(Type : <b>PLASTIC BRIDGE RAIL NON-STANDARD RAIL</b> )					
Bridge Rail Posts			7	7	
(Type : )					
Bridge Rail/Posts Coating			X	X	
(Type : )					
Sidewalk			7	7	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			6	5	Sp.3- G2 and G26, G46 have corrosion spots at West end, and Sp.2-G1,G2. Sp.1-G26, G27 and G30 are scaled at West ends. Several patched at underside. (45:46:47).
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>138</b> )					
Diaphragms/Cross Frame			X	X	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 11.6-15.8-13.7, A-Ident Number: )				
Bearings		7	7	
Temperature (deg. C)	-11			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Stains at isolated girders. Worst along C/L under median.
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		6	5	
Abutment Stability		8	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	Railroad.

Structure Usage				
		Last	Now	Explanation of Condition
Traffic Safety Features		X	X	
Type	NONE			
Slope Protection		7	7	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>7</b>	<b>7</b>	

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										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
<b>Structural Condition Rating (Last/Now)</b>	<b>72.2/66.7</b>	<b>Sufficiency Rating (Last/Now)</b>	<b>76.4/73.9</b>	<b>Est. Repl. Yr</b>	<b>2033</b>	<b>Maint. Req. (Y/N)</b>	<b>No</b>			
Special Comments for Next Inspection			Department Comments							
Maintenance Reviewed By			Date							
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	10-Oct-2014		Previous Inspection Date	11-Apr-2011						
Inspection Cycle (Modified) (months)	21									
Comment										

**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						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>76.4/73.9</b>	Est. Repl. Yr	2033	Maint. Req. (Y/N)	No
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Special Comments for Next Inspection		Department Comments	
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Maintenance Reviewed By		Date		Estimated Total	0
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Proposed Long-Term Strategy					
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On 3-Year Program (Y/N)					
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Proposed Action					
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Previous Inspector's Name	Garry Roberts	Previous Assistant's Name			
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Next Inspection Date	10-Oct-2014	Previous Inspection Date	11-Apr-2011		
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Inspection Cycle (Modified) (months)	21				
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Comment	
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