

Bridge Inspection									
Bridge File Number	74352 E-2 Bridge				Form Type	PSR			
Year Built/Year Supstr	1968/1968				Lot No.	2			
Bridge or Town Name	CANMORE				Inspector Name	Garry Roberts			
Located Over	1A:02 C1 0.290;CPR				Inspector Class	BR CLS A			
Located On	1:02 R1 8.485				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	06-Feb-2012			
Legal Land Location	NE SEC 28 TWP 24 RGE 10 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-115:19:55, 51:04:30				Data Entry Date	13-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA28				Review Date	21-Feb-2012			
Clear Roadway/Skew	15.7 / -20 deg. (LHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	16,520 / 2010 (A)				Dept. Review Date	22-Mar-2012			
Road Classification	RAD-412.4-120				Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:	HS20				----> Primary Span				

Posting Information											
Required Vert. Clearance Posting (m)	UNDER: 1A C1 6.2m										
Posted Vertical Clearance (Y/N)	Yes										
Posted:	Lane	NB	On Bridge (m)	6.1	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	In Advance (Y/N)	Yes
Remarks	SB posting on BF 74352 W. confirmed accurate sept 24 2010										
Required Load Posting (t)	Single				Semi				Truck Train		
Posted Loading (t)	Single				Semi				Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No			
Posted:	Lane	WB	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 UTILITIES-PHONE LINE									
Telephone	Crosses under bridge				Gas	100 m south				
Power					Municipal					
Others	Telegraph lines				Problem (Y/N)	No				
Remarks										

Approach Road										
				Last	Now	Explanation of Condition				
Horizontal Alignment				8	8					
Vertical Alignment				7	7					
Roadway Width (m)	15.200									
Approach Bump				7	7					
Guardrail (Y/N)	Yes					Wrong lap - and missing 4 splice bolts at NW and SW. 1 split post at SE.				
Guardrail				4	3					
Length (m)	76.000					Not thriebeam.				
Current Standard (Y/N)	No									
Termination Type	TURNED DOWN									
Drainage				7	7					
Approach Road General Rating				7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 6 Spans, Lengths(m): 17.7-17.7-17.7-17.7-17.7-17.7, 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			7	7	Chipcoat. Waterproof membrane under ACP.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	7	
Deck Joints			4	3	Plow guards only @ outside lane. Missing 6 at A1, 4 at P2, 2 at P3, P4 and P5, 2 at A2. Gland is patched at A1 Broken areas 500mm long at P3 and P4 and gland torn up to 150mm long at P2. Spalled areas at P3, P4 and P5 paving lips. 25mm twist in P4 extrusion. East Abut - 100mm
Temperature (deg. C)		-12			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
110		W. abut			
105		Pier 1			
110		Pier 2			
100		Pier 3			
105		Pier 4			
115		Pier 5			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Cracked at fascias at isolated posts
(Curb Type : Standard;None)					
Scaling (Percent Area)		5			
Bridge Rail			5	3	Top rail cracked all around at southside pier #4 @ weld. Several post abutments nuts just flush , 20 with insufficient thread 30% corrosion.
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			4	4	
(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			4	4	Several exterior girders with wide vertical spall cracks and end breaks 2 Girders with medium width longitudinal cracks @ span 2. Otherwise girders rate 5. Several girders patched
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 108)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 6 Spans, Lengths(m): 17.7-17.7-17.7-17.7-17.7-17.7, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		6	6	Exp at Abut Fixed at piers
Temperature (deg. C)	-12			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Appears to be active leakage between center and North girders at Sp.5.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		X	7	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:6:6:6:6)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	
Traffic Safety Features		3	3	Broken Post @ Hwy 1A
Type	GUARDRAIL			
Slope Protection		7	7	Gabion baskets at west median
(Type : NATURAL; NATURAL)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		3	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair/Replace cracked rail.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	18 plow gaurds + approx 2m2 joint spalls					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Replace 1 guardrail post @ east side Hwy 1A					
OTHER ACTION	2012	Patch exterior girder spalls approx. 2m2- AI @ NW, P4 @ South.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	58.1/58.0	Est. Repl. Yr	2028	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	06-Nov-2013		Previous Inspection Date	24-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							