

Bridge Inspection							
Bridge File Number	00167 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1965/1965			Lot No.	1		
Bridge or Town Name	CANMORE			Inspector Name	Garry Roberts		
Located Over	BOW RIVER, 2.13, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	WAS 742:02			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	17-Jan-2013		
Legal Land Location	SW SEC 32 TWP 24 RGE 10 W5M			Data Entry By	Lauren Korte		
Longitude, Latitude	-115:21:56, 51:05:10			Data Entry Date	06-Feb-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Tom Carey		
Contract Main. Area	UNDEFINED CMA			Review Date	22-Jan-2013		
Clear Roadway/Skew	8 /			Dept. Reviewer Name	Tim Davies		
AADT/Year				Dept. Review Date	21-Feb-2013		
Road Classification				Follow-Up By			
Detour Length (km)	120						
Allowable Load (t):	Single	CS1 48 GIRDER	Semi	CS2 62 GIRDER	Train	CS3 78 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information								
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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Remarks	Not required.							
Hazard Marker At Bridge (Y/N)	No							
Remarks	Not required.							
Other Sign Types	30 km/hr, Pedestrians.							

Utilities (Located at)				
Utility Attachments	OTHER UTILITIES-Shaw Cable under curb Dec 2005; TELEPHONE UTILITIES-PHONE LINE; WATER UTILITIES-WATER LINE			
Telephone	Under U/S curb/conduits @ both curbs.		Gas	Under bridge.
Power	West ROW. Light standards.		Municipal	Water, sewer under bridge.
Others			Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Adequate for posted speed of 30 km/hr.
Vertical Alignment		5	5	
Roadway Width (m)	7.300			
Approach Bump		3	7	
Guardrail (Y/N)	No			
Guardrail		X	X	
Length (m)				
Current Standard (Y/N)				
Termination Type				
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 22.3-28-22.3, A-Ident Number: A0497-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			5	9	New overlay in 2011.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			6	9	
Deck Joints			4	9	New stripseal joints in 2011.
Temperature (deg. C)		6			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
75		South abutment - A1			
80		North abutment - A2			
Deck Drainage			4	8	inspection} Trough drains full and corroding from deck drainage through finger joints.
Drains Clogged (Y/N)		No			
Curbs/Median			5	7	Repaired in 2011. 40% snow covered.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	Isolated vertical bars with minor bends. A/B nuts not fully engaged.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			3	3	{Span 1 girder 1 has 12mm crack at end of 1 coverplate. May 11, 2009 CP inspection}. Not able to confirm.
Flange			7	7	
Web			7	7	
Stiffeners			7	7	
Splice			7	7	
Weld			3	3	
Diaphragms/Cross Frame			7	7	{1 cracked weld. May 11, 2009 CP inspection}

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 3 Spans, Lengths(m): 22.3-28-22.3, A-Ident Number: A0497-01)				
Paint Condition		7	7	
(Colour Description : BROWN)				
(Colour Code : 30252)				
Touchup Required (Y/N)	No			
Bearings		6	7	At abuts at North pier. At South pier. Recoated in 2011.
Temperature (deg. C)	6			
(Expansion Type : ROLLER BEARING)				
(Fixed Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Minor corrosion at NE exterior. Isolated cracks with staining.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	General Rating carried forward from CP inspection.
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	8	Pedestrian pathways at both ends.
(Type : CONCRETE)				
Backwalls/Breastwalls		4	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		6	8	
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-SOLID)				Wide vertical cracks in massive pier shaft.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		6	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		4	5	Tight corrosion at lower nose plate.
(Colour Description : BROWN)				
(Colour Code : 30252)				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	Yes			Concrete debris and rebar at Sp.2 just below the surface causing navigational hazards.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		8	8	
(Type : RIP RAP)				
Guidebank/Spurs		8	8	North bank has sheet piling retaining wall.
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

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							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Remove concrete debris down to streambed.					
OTHER ACTION	2013	{Repair 1 cracked weld on coverplate weld. May 11, 2009 CP inspection}					
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Structural Condition Rating (Last/Now) (%)	50.0/55.6	Sufficiency Rating (Last/Now) (%)	69.0/70.9	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	This section of Hwy 742 is now a local road, last inspection as part of #742, and moved to majors on local roads.		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	Randy Bredo	Previous Assistant's Name	Bryce Clayton
Next Inspection Date	17-Apr-2016	Previous Inspection Date	06-Nov-2009
Inspection Cycle (Default) (months)	39		
Comment			